OMV Australia

WELL COMPLETION REPORT (BASIC DATA)

Baleen-3 & 3/ST1

Permit VIC/L21

Offshore Gippsland Basin

June 2003

OMV Australia

OMV Australia

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PERMIT VIC/L21
OFFSHORE GIPPSLAND BASIN
VICTORIA
AUSTRALIA

BALEEN-3 & BALEEN-3/ST1

WELL COMPLETION REPORT
BASIC DATA

VOLUME 1

Prepared by:
Ross Tolliday
October, 2002

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BALEEN-3 and -3/ST1
BASIC DATA REPORT
Volume 1

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LOCATION MAP

GIPPSLAND BASIN

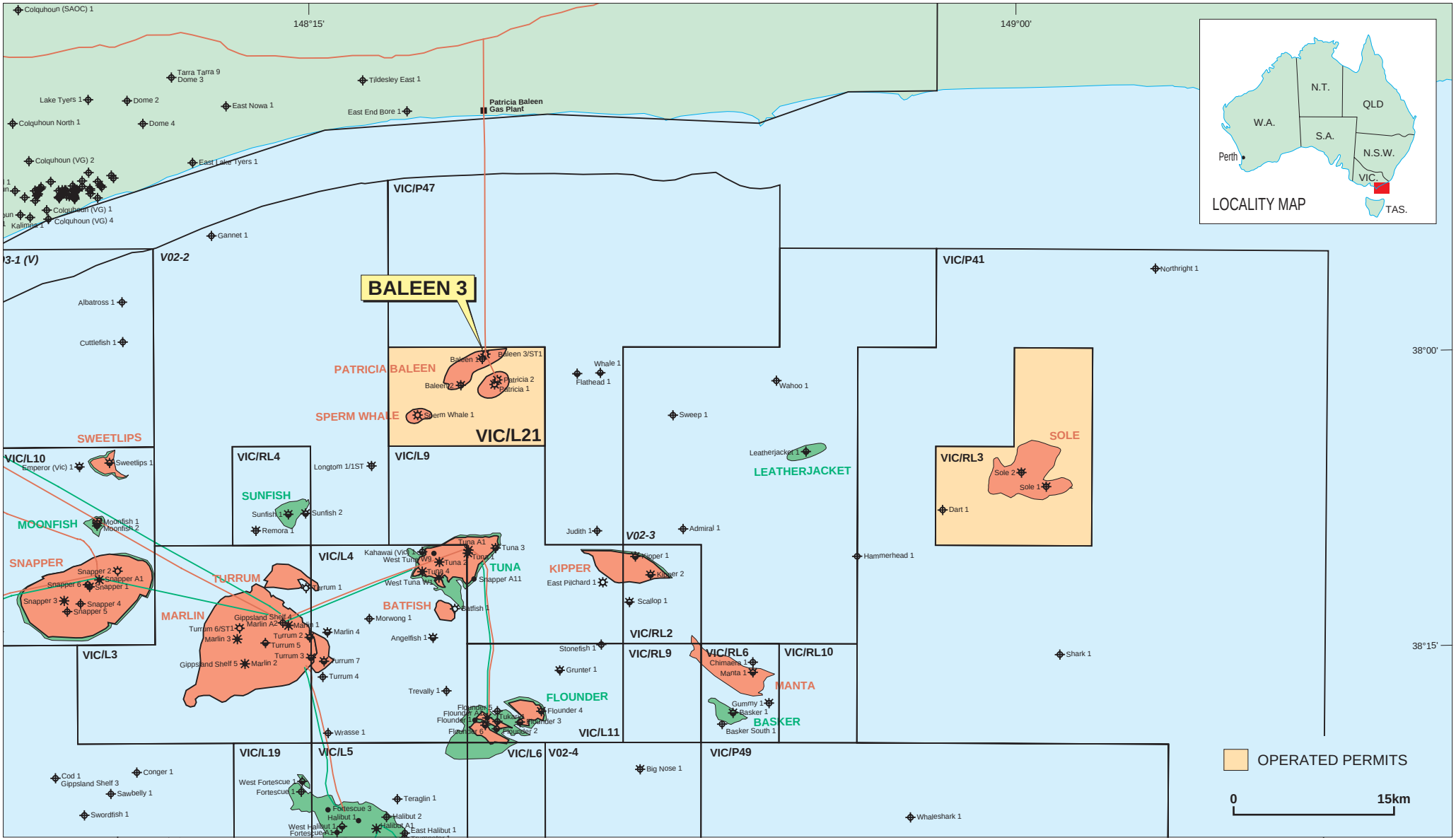

FIGURE 1

AUTHOR: OMV DATE: MARCH 2003 FILENAME: GIPPSAND \ A4S \ 390.DGN (V1)

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WELL SUMMARY CARD – BALEEN-3

WELL	**BALEEN-3**	**ON LOCATION**	13:25 hrs, 23rd May, 2002
WELL TYPE	Horizontal Development	**SPUDDED**	14:00 hrs, 24th May, 2002
BLOCK/LICENCE	VIC/L21	**TD REACHED**	03:30 hrs, 3rd June, 2002
RIG	Ocean Bounty	**RIG RELEASED**	00:30 hrs, 20th June, 2002
WATER DEPTH	52.5 m (LAT)	**COMPLETION**	Production liner run in Baleen-3/ST1
RT (Sea level)	25.0 m	**STATUS**	Suspended Gas Production Well
TD (LAT)	1555.0 mMDRT (-710.4 mTVDSS)	**TRAP TYPE**	Structural Anticline
		OPERATOR	Basin Oil Pty. Ltd.

SURFACE LATITUDE	38° 00' 20.99" S	**SURFACE Y coord**	5 792 541.3 mN
SURFACE LONGITUDE	148° 26' 34.42" E	**SURFACE X coord**	626 675.9 mE
OBJECTIVE LATITUDE	38° 00' 40.79" S	**OBJECTIVE Y coord**	5 791 944 mN
OBJECTIVE LONGITUDE	148° 25' 59.33" E	**OBJECTIVE X coord**	625 810.7 mE
SEISMIC REFERENCE	Surface: Inline 209, Xline 3786 Objective: Inline 221, Xline 3617 (Baleen 3D 2000)	**Spheroid/Datum**	ANS/AGD 66
		ZONE	UTM Zone 55

REMARKS

Baleen-3 was drilled as a high deviation and horizontal well to 1352.0 mMDRT (-648.3 mTVDSS). However, to increase the reservoir exposure to the well bore, the well was sidetracked from 1137.0 mMDRT (-651.0 mTVDSS).

HOLE SIZE mm (inch)	**CASING SIZE mm (inch)**	**SHOE DEPTH (mMDRT)**	**TYPE**	**LOT/FIT Sg(MWE)**
914 (36)	762x508 (30x20)	112	X-52	N/A
444.5 (17 ½)	340 (13 3/8)	327.4 (-326.4 mTVDSS)	K-55	1.74 (FIT)
311 (12 ¼)	244.5 (9 5/8)	866.1 (-680.0 mTVDSS)	L-80	1.41 (FIT)
216 (8 ½)				

MUD DATA				
RUN	1	2	3	4
TYPE	Seawater/Hi vis sweeps	KCl/PHPA/GLYCOL	KCl/PHPA/GLYCOL	FLO-PRO
DENSITY	1.04	1.06	1.06	1.16
VISCOSITY		92	54	64
FLUID LOSS		10	5.8	4.6
pH		9.5	9.5	9.5
Rm		0.06/23.00°C	0.14/26.00°C	0.08/26.00°C
Rmf		0.04/23.00°C	0.10/26.00°C	0.06/23.00°C
Rmc		0.14/23.00°C	0.17/49.00°C	0.13/26.00°C
Chlorides		37000	36000	80000
Barite		-	-	-
KCl		4	4	3
Glycol		3	3	-

NO PRODUCTION TESTS WERE PERFORMED IN BALEEN-3.

NO CORES WERE CUT IN BALEEN-3.

NO WIRELINE LOGS WERE RUN IN BALEEN-3.

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LWD LOGS

LOG TYPE	RUN	INTERVAL mRT	BHT °C	DATE, TIME	COMMENTS
DGR/EWRP4/DM/DDS	1	112 - 336	24	25/5/02, 22:55 hrs	17 ½" (444.5 mm) hole
DGR/EWRP4/DM/DDS	2	336 - 458	28	29/5/02, 18:00 hrs	12 ¼" (311 mm) hole
DGR/EWRP4/DM/DDS	3	458 - 871	49	29-31/5/02, 09:57 hrs	12 ¼' (311 mm) hole
DGR/EWRP4/DDS/SLD/ CNP/PM	4	871 - 1352	52	1-3/6/02, 13:58 hrs	8 ½" (216 mm) hole

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WELL SUMMARY CARD – BALEEN-3/ST1

WELL	**BALEEN-3/ST1**	**ON LOCATION**	13:25 hrs, 23rd May, 2002
WELL TYPE	Horizontal Development	**KICKED OFF ST1**	19:30 hrs, 3rd June, 2002
BLOCK/LICENCE	VIC/L21	**TD REACHED**	21:00 hrs, 4th June, 2002
RIG	Ocean Bounty	**RIG RELEASED**	00:30 hrs, 20th June, 2002
WATER DEPTH	52.5 m (LAT)	**COMPLETION**	110 micron weave "Excluder 2000" sand screen (from 902.0 mMDRT (-685.0 mTVDSS) to 1554.0 mMDRT (-710.0 mTVDSS)).
RT (Sea level)	25.0 m	**STATUS**	Suspended Gas Production Well
TD (LAT)	1555 m (-710.4mTVDSS)	**TRAP TYPE**	Structural Anticline
		OPERATOR	Basin Oil Pty. Ltd.

SURFACE LATITUDE	38° 00' 20.99" S	**SURFACE Y coord**	5 792 541.3 mN
SURFACE LONGITUDE	148° 26' 34.42" E	**SURFACE X coord**	626 675.9 mE
OBJECTIVE LATITUDE	38° 00' 40.79" S	**OBJECTIVE Y coord**	5 791 944 mN
OBJECTIVE LONGITUDE	148° 25' 59.33" E	**OBJECTIVE X coord**	625 810.7 mE
SEISMIC REFERENCE	Surface: Inline 209, Xline 3786 Objective: Inline 221, Xline 3617 (Baleen 3D 2000)	**Spheroid/Datum**	ANS/AGD 66
		ZONE	UTM Zone 51

REMARKS

Baleen-3/ST1 was sidetracked from Baleen-3 at 1137.0 mMDRT (-651.0 mTVDSS) and drilled at a high angle and horizontally to total depth of 1555.0 mMDRT (-710.4mTVDSS). The well was cased, and a production test through sand screens of the interval 902.0 mMDRT (-659.0 mTVDSS) to 1554.0 mMDRT (-710.0 mTVDSS) flowed 27.1 MMscf/d of gas.

HOLE SIZE mm (inch)	CASING SIZE mm (inch)	SHOE DEPTH (mRT)	TYPE	LOT/FIT Sg(MWE)
216 (8 ½)	168 (6 5/8)	1554.0 (-710.0 mTVDSS)	Production liner (Excluder 2000 sand screen)	N/A

MUD DATA	
RUN	5
TYPE	FLO-PRO
DENSITY	1.18
VISCOSITY	64
FLUID LOSS	4.6
pH	9.5
Rm	0.08/26.00°C
Rmf	0.06/23.00°C
Rmc	0.10/26.00°C
Chlorides	84000
Barite	-
KCl	3
Glycol	-

PERFORATIONS: Excluder Sand Screen from 902mMDRT to 1554mMDRT.

DRILL STEM TESTS

DST	Flow rate	Choke mm (in)	GOR
1	27.1 MMscf/d	No choke, Max. Flow Rate	N/A

NO CORES WERE CUT IN BALEEN-3/ST1.

NO WIRELINE LOGS WERE RUN IN BALEEN-3/ST1.

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LWD LOGS

LOG TYPE	RUN	INTERVAL mMDRT	BHT °C	DATE / TIME	COMMENTS
DGR/EWRP4/SLD/CNP/DDS/PM	5	1137 - 1555	54	3-5/6/02, 09:55 hrs	8 ½" (216 mm) hole

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1.0 WELL SUMMARY

1.1 OPERATIONAL SUMMARY

The semi-submersible Ocean Bounty was towed from the Timor Sea to Bass Strait beginning on April 24th. Poor weather in Bass Strait delayed anchoring at the Baleen-3 location. The rig finally arrived on location, and dropped and set the first anchor (#6) at 13:25 hrs, 23rd May, 2002. After all anchors were run and tensioned the well was spudded at 14:00 hrs on the 24th May, 2002.

The final Thales Geosolutions GPS surface rig position (Appendix 1) for Baleen-3 is:

Datum:	AGD 66
Latitude:	38° 00' 20.99" South
Longitude:	148° 26' 34.42" East
Projection:	AMG Zone 55, CM 147° East
Easting:	626 675.9 mE
Northing:	5 792 541.3mN

This position was 1.7 metres on a bearing of 326°(T) from the intended location. The final rig heading was 257.6°(T).

The final rig elevations were:

RT – SL:	25.0 m
Water Depth (LAT):	52.5 m (Note: MSL is approximately 0.6m above LAT)
RT - Sea bed:	77.5 m

Baleen-3 was drilled as a horizontal gas development well and was located within the Baleen gas field in permit VIC/L21, which is approximately 285 Nautical Miles from Geelong and 140 Nautical Miles from Port Welshpool (Figure 1). The Baleen-3 surface location was NE of Baleen-1 and the final bottom hole (toe) location was SW of Baleen-1, which is in the NE corner of the Baleen Field (Figure 2).

The main objectives of the well were to drill horizontally through the reservoir and complete a 650 m production interval. The plan was to test the well and determine well deliverability, estimate initial reservoir pressures, acquire flowing pressure data and obtain representative gas samples. This was achieved.

After spudding, the 36" (914 mm) hole was drilled from the seabed at 77.5 to 112.0 mMDRT where a 30"x20" (762 x 508 mm) conductor was run to 112.0 mMDRT and cemented with good back flow. The 20" (508 mm) shoe track was drilled out and a 17 ½" (444.5 mm) hole was drilled riser less from 112 mMDRT to 336 mMDRT. This 17 ½ " (444.5 mm) section was drilled with seawater and Hi Vis mud sweeps with returns to the sea floor. The 13 3/8" (340 mm) casing was then run with the shoe set at 327.4 mMDRT, and cemented. The production Xmas tree was then run. However, during pressure testing of the connector a leak was discovered in the VX seal between the Xmas tree and the wellhead. The tree was recovered and the metal end cap seal was replaced and a new VX ring was installed on the wellhead. The Xmas tree was rerun and successfully tested. The BOPs and marine riser were then run.

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The 12 ¼" (311 mm) BHA was made up and run in the hole. New formation was drilled from 336.0 mMDRT to 340.0 mMDRT and a formation integrity test (FIT) was performed to an equivalent mud weight of 1.74sg. The 12 ¼" (311 mm) hole was then drilled and deviated from 340.0 mMDRT to 458.0 mMDRT. The drilling assembly was pulled out of the hole due to insufficient build angle and the bend of the motor changed from 1.15 to 1.5 degrees. The hole was then drilled and deviated to section TD of 871.0 mMDRT (-656.0 mTVDSS). The angle at the last survey depth of 838.0 mMDRT (-674.0 mTVDSS) was 76.3 degrees with an azimuth of 234 degrees. After cleaning the hole, 58 joints of 9 5/8" casing were run and cemented with the shoe at 866.1mRT (-680.0mTVDSS). An 8 ½" drilling assembly was run in the hole and the shoe and 2.0 m of new formation from 871.0 mMDRT to 873.0 mMDRT were drilled. An FIT was performed up to an EMW of 1.41sg. The well was then drilled near horizontally to a depth of 1352.0 mMDRT (-648.3 mTVDSS). To increase the reservoir interval in the well bore, the well was sidetracked at a high angle from 1137.0 mMDRT and total depth of 1555.0 mMDRT (-710.4 m TVDSS) was reached at 21:00 hrs, 4th June, 2002.

A 6 5/8" (168 mm) production liner consisting of sand screens and a 5" (127 mm) completion string were run and landed. The well was tested and a maximum flow of 27.1 MMscf/d was recorded. The well was suspended, anchors were pulled and the rig was released at 00:30 hrs, 20th June, 2002.

For further details, please refer to the Drilling Operations End of Well Report (Appendix 2).

1.2 CASING

Three casing strings were run in the Baleen-3 well and a production liner was run in the Baleen-3/ST1 well. The 30"x20" (762 x 508 mm) casing was set at 112.0 mMDRT on 24th May, 2002 after the 36" (914 mm) hole was drilled. The 17 ½" (444.5 mm) hole was drilled to 336.0 mMDRT. The 13 3/8" (340 mm) casing was set at 327.4 mMDRT (-326.4 mTVDSS) on 26th May, 2002 and the BOPs run. The hole was drilled and deviated in the next 12 ¼" (311 mm) section. The 9 5/8" (244.5 mm) casing was set at 866.1 mMDRT (-680.0 mTVDSS). The well was completed at 1555.0 mMDRT (-710.4 m TVDSS) with 6 5/8" (168 mm) production liner.

A summary of casing run in the well is shown below in Table 1.

TABLE 1 - CASING SUMMARY

HOLE SIZE mm (inch)	CASING SIZE mm (inch)	SHOE DEPTH (mRT)	TYPE	LOT/FIT Sg(MWE)
914 (36)	762x508 (30x20)	112	X-52	N/A
444.5 (17 ½)	340 (13 3/8)	327.4 (-326.4 mTVDSS)	K-55	1.74 (FIT)
311 (12 ¼)	244.5 (9 5/8)	866.1(-680.0 mTVDSS)	L-80	1.41(FIT)
216 (8 ½)	168 (6 5/8)	1554 (-710.0 mTVDSS)	Production liner (Excluder 2000 sand screens)	

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2.0 SAMPLING

2.1 DITCH CUTTINGS

Five sets of cuttings were collected over the intervals 336.0 mMDRT to 1352.0 mMDRT in Baleen-3 and 1137.0 mMDRT to 1555.0 mMDRT in Baleen-3/ST1 (see Table 2). The sample intervals were varied from 4 to 12m according to the drilling rate of penetration and section depths.

The cuttings were described and the report is included in Appendix 3.

TABLE 2 – Cuttings Samples-Interval summary

Depth (mRT)	Interval
336 – 340	4 m
340 – 350	5 m
350 – 370	10 m
370 – 380	5 m
380 – 480	10 m
480 – 490	5 m
490 – 510	10 m
510 – 650	5 m
650 – 700	10 m
700 – 740	5 m
740 – 760	10 m
760 – 770	5 m
770 – 790	10 m
790 – 800	5 m
800 – 840	10 m
840 – 970	5 m
970 – 1000	10m
1000 – 1045	5 m
1045 – 1055	10 m
1055 – 1130	5 m
1130 – 1340	10 m
1340 – 1352 Baleen-3 TD	12 m
Baleen-3 Sidetrack	
1137-1140	3 m
1140 – 1550	10 m
1550-1555 TD	5 m

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The cuttings were packed in boxes and distributed as per Table 3. For more details see the Final Mudlogging Report in Appendix 4.

TABLE 3 - Cuttings Sample Distribution Summary

Sample type	No. Sets	Quantity per sample (g)	Distributed to:-
Washed & dried-samplex trays	1	5	OMV
Washed & dried-A	1	100	OMV
Washed & dried-B	1	100	AGSO
Washed & dried-C	1	100	VDNRE
Washed & dried-D	1	100	TRINITY
Washed & dried-E	1	100	SANTOS

2.2 SIDEWALL CORES

No sidewall cores were taken in Baleen-3 or Baleen-3/ST1.

2.3 CONVENTIONAL CORES

No conventional cores were taken in Baleen-3 or Baleen-3/ST1.

2.4 FORMATION FLUIDS

In Baleen-3/ST1, three 20-litre surface gas samples were recovered from the separator gas line during testing and were analysed by Core Laboratories in Perth. The compositional analyses report is in Appendix 5.

No wireline formation tests or samples were attempted in Baleen-3 or Baleen-3/ST1.

2.5 WELL TESTING

The Baleen-3/ST1 well was production-tested between 9th-14th June 2002 in order to clean the well up prior to suspension and to determine key well and reservoir parameters from the bottomhole pressure response. The actual test duration was 63 hours (excluding operational downtime and waiting on daylight), as compared to the pre-test programme of 74 hours, due to reductions in the duration of some flow/shut-in periods.

A short initial flow and pressure build-up was conducted to determine the static reservoir pressure prior to testing. Extrapolation of the shut-in trend yielded an initial reservoir pressure of 1,060.8 psia at gauge reference depth of 902.0 mMDRT (-659.0 mTVDSS).

The well was beaned-up to maximum choke to promote effective clean-up of the entire horizontal production interval. Intermittent brine slugs were observed at surface (and from bottomhole pressure data), which decreased in volume and frequency during the clean-up flow period. A coiled tubing-conveyed temperature logging pass confirmed the presence of free water lying in low-points (sumps) in the wellbore trajectory profile.

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At maximum choke, a maximum flowrate of 27.1 MMscf/d was measured (upstream choke pressure of 650 psia) through the test separator (outside critical flow conditions). In addition, prevailing wind conditions required flow to the aft flare boom, located on the opposite side of the rig to the test area, which caused additional pressure drops within the surface pipework.

A Well Test Data report can be found in Appendix 6.

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3.0 GEOLOGY

3.1 GEOLOGICAL SUMMARY

Baleen-3 and Baleen-3/ST1 penetrated a sedimentary sequence, which included the following Gippsland Basin stratigraphy as described from cuttings:

Baleen-3

- Marine limestones and lime muds: 336.0 – 728.0 mMDRT
- Marine lime muds, clays and very fine muddy limestones: 728.0 – 840.0 mMDRT
- Very fine to fine silty sandstones and sandy siltstones: 840.0 – 1313.0 mMDRT
- Marine clays & lime muds, with minor silty sands & sandy silts: 1313.0 – 1352.0 mMDRT

Baleen-3/ST1

- Very fine to fine silty sands and minor sandy silts: 1137.0 – 1430.0 mMDRT
- Sandstones and minor clay rich sands: 1430.0 – 1555.0 mMDRT

Interval summaries are presented in the Daily Geological Reports in Appendix 7. More detailed descriptions of the Baleen-3/ST1 stratigraphy were made from drill cuttings and are included as Appendix 3. Returns above 336.0 mMDRT were to the Sea Floor.

High gas readings were recorded through the reservoir with a maximum of 22.75% while drilling at 871.0 mMDRT. No hydrocarbon fluorescence was observed in the well.

A summary of the lithologies penetrated in Baleen-3 and Baleen-3/ST1 appears below.

Seafloor – 336.0 mMDRT **No samples taken – returns to seabed**

336.0 to 420.0 mMDRT **FOSSILIFEROUS CALCARENITE with minor ARGILLACEOUS CALCILUTITE**

FOSSILIFEROUS CALCARENITE: (60 to 100%) white to very light grey, light greenish grey, yellowish to pinkish grey, soft to firm, very fine to medium grained calcite, calcisilt in part, 15 to 25% fossil fragments (shell, bryozoa, echinoid spicules) and coral debris, trace forams, trace to 5% calcilutite, recrystallised in part, trace light to dark green glauconite, trace pyrite, fair inferred intergranular porosity.

ARGILLACEOUS CALCILUTITE: (0 to 40%) very light to light greenish grey, light to medium olive grey, very soft to soft, dispersive in part, 15 to 30% argillaceous matrix, trace to 5% calcisilt, trace glauconite silt.

420.0 to 728.0 mMDRT **ARGILLACEOUS CALCILUTITE with Interbedded CALCARENITE and CALCISILTITE and minor CALCAREOUS CLAYSTONE**

ARGILLACEOUS CALCILUTITE: (30 to 60%) light greenish grey to medium olive grey, medium dark grey in parts, amorphous, soft, dispersive in part, 20 to 30% argillaceous

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matrix, 10 to 20% calcisilt, trace glauconite silt. Grades to **argillaceous calcisiltite** in parts.

CALCARENITE: (20 to 40%) very light to light grey, light to medium yellowish grey, firm, silty to fine grained calcite, trace to 10% fossil fragments (shell, bryozoa, echinoid spicules), 5 to 15% calcilutite matrix, re-crystallized in part, trace light to dark green glauconite, nil to trace pyrite. Grades to **calcisiltite** in parts.

CALCISILTITE: (20 to 40%) light grey, light to medium yellowish grey, soft to firm, rare hard, trace to 10% fossil fragments (shell, bryozoa, echinoid spicules), trace to 10% fine grained calcite, grades to calcarenite in part, 5 to 10% calcilutite matrix, re-crystallized in part, trace light to dark green glauconite, nil to trace pyrite.

CALCAREOUS CLAYSTONE: (10 to 30%) light to dominantly medium olive grey, occasionally dark olive grey, soft to firm, amorphous to sub-blocky, 20 to 30% micrite content, grades to **marl / argillaceous calcilutite**.

728.0 to 806.0 mMDRT

CALCAREOUS CLAYSTONE and MARL with minor ARGILLACEOUS CALCILUTITE

CALCAREOUS CLAYSTONE: (30 to 90%) medium grey to medium olive grey, occasionally dark olive grey, greenish grey in parts, brownish yellow in parts, soft to firm, very soft in parts, amorphous to sub blocky, 15 to 30% micrite content, trace forams, trace fossil fragments, trace quartz silt to very fine sand, trace carbonaceous wisps, trace very fine pelloidal glauconite. Grades to **claystone**.

MARL: (10 to 70%) light grey to light olive grey, medium olive grey, very soft to soft, dispersive, amorphous, 40 to 50% siliceous clay, trace chert, trace disseminated pyrite, trace calcisilt, trace forams. Grades to **calcareous claystone**.

ARGILLACEOUS CALCILUTITE: (10 to 30%) light greenish grey to medium olive grey, soft to firm, amorphous, slightly dispersive, 20 to 40% siliceous clay, trace to 5% calcisilt, trace glauconite. Commonly grades to **marl / calcareous claystone**.

806.0 to 840.0 mMDRT

CALCAREOUS CLAYSTONE

CALCAREOUS CLAYSTONE: (100%) medium grey to medium olive grey, occasionally dark olive grey, greenish grey in parts, brownish yellow in parts, soft to firm, very soft in parts, amorphous to sub blocky, 15 to 30% micrite content, trace forams, trace fossil fragments, trace to 3% quartz silt to very fine sand, trace carbonaceous wisps, 1 to 3% very fine to fine pelloidal glauconite, trace pyrite. Grades to **claystone**.

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840.0 to 871.0 mMDRT

SILTY SANDSTONE with minor Interbedded SANDY SILTSTONE and CLAYSTONE

SILTY SANDSTONE: (20 to 80%) light to dark yellowish brown, medium brownish grey, loose and friable, minor firm, clear to translucent, occasionally very light grey, quartz grains, very fine to fine, trace medium, poorly to moderately sorted, sub angular to sub rounded, 15 to 30% quartz silt, 5 to 15% argillaceous content, trace to 3% glauconite, trace to 1% mica (muscovite and biotite), trace multicoloured lithics, fair to good inferred porosity, no fluorescence.

SANDY SILTSTONE: (5 to 30%) light to medium yellowish brown, dark brown, soft to firm, very soft in parts, blocky, 15 to 25% very fine quartz, 10 to 20% argillaceous content, trace micrite content, trace to 3% glauconite, trace mica, trace limonite? nodules.

CLAYSTONE: (5 to 25%): medium grey to medium olive grey, occasionally dark olive grey, greenish grey in parts, soft to firm, amorphous to sub blocky, 5 to 10% micrite content, trace forams, trace to 5% quartz silt to very fine sand, trace carbonaceous wisps, 3 to 5% very fine to fine pelloidal glauconite.

871.0 to 1313.0 mMDRT

SILTY SANDSTONE with minor SANDY SILTSTONE and SIDERITIC SANDSTONE (from 1287.0 mMDRT to 1313.0 mMDRT)

SILTY SANDSTONE: (60 to 100%) medium to dark yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose to minor firm aggregates, dominantly loose to friable, silt size to fine grained, rare medium grained, dominantly very fine to fine, poor to moderately sorted, angular to sub-rounded, 15 to 25% quartz silt, 5 to 10% argillaceous content, suspect clays being dispersed in mud, trace to minor sideritic cemented aggregates and nodules, trace to 3% micro-mica (biotite and muscovite), trace to 2% dark green glauconite, trace feldspar, trace nodular and disseminated pyrite, minor multicoloured lithics, fair to good inferred porosity.

SANDY SILTSTONE: (0 to 40%) dark yellowish brown to dark brown, dusky yellowish brown, soft, very soft in parts, sub-blocky, 15 to 25% very fine quartz, trace to 5% siderite content, 10 to 15% argillaceous matrix, trace glauconite, trace mica, trace nodular and disseminated pyrite.

SIDERITIC SANDSTONE: (80 to 95%) medium to dark yellowish brown, loose to friable, minor firm, clear to translucent and occasionally very light grey quartz grains, very fine to medium, mainly fine, poorly to moderately sorted, angular to

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sub rounded, 10 to 20% quartz silt, 15 to 25% siderite(?) cement in part, 15 to 20% dusky yellowish brown siderite nodules, trace to 5% argillaceous content, 5 to 10% dark green glauconite, trace to 1% mica (muscovite and biotite), trace multicoloured lithics, fair to good inferred porosity, no fluorescence.

1313.0 to 1352.0 mMDRT **CLAYSTONE and minor SANDY SILTSTONE and SANDSTONE**

CLAYSTONE: (70 to 85%) light to medium grey, rare medium olive grey, soft to firm, amorphous to sub blocky, 10 to 20% micrite content, trace forams, 10 to 15% quartz silt to very fine sand, 5 to 10% very fine to fine pelloidal glauconite, grades to **calcareous claystone** in parts.

SANDY SILTSTONE: (10 to 20%) dark yellowish brown to dark brown, dusky yellowish brown, soft to very soft in parts, sub-blocky, 15 to 25% very fine quartz, trace to 10% siderite content, 10 to 15% argillaceous matrix, trace to 2% glauconite, trace mica, trace nodular and disseminated pyrite.

SANDSTONE: (0 to 10%) medium to dark yellowish brown, loose to friable, minor firm, clear to translucent and occasionally very light grey quartz grains, very fine to lower medium, mainly lower fine, poorly to moderately sorted, angular to sub rounded, 10 to 20% quartz silt, 10 to 15% siderite cement in part, 5 to 10% dusky yellowish brown siderite nodules, 5% argillaceous content, 2 to 5% dark green glauconite, trace to 1% mica (muscovite and biotite), trace multicoloured lithics, fair to good inferred porosity, no fluorescence.

BALEEN-3 SIDETRACK 1

1137.0 to 1430.0 mMDRT **SILTY SANDSTONE with minor SANDY SILTSTONE**

SILTY SANDSTONE: (80 to 95%) light to medium yellowish brown, dusky yellowish brown, light to medium olive grey, clear to translucent quartz grains, loose, silt size to fine grained, dominantly fine, moderately sorted, angular to sub-rounded, 15 to 25% quartz silt, 5 to 10% argillaceous content, trace to 2% micro-mica (biotite and muscovite), trace to 1% dark green glauconite, trace feldspar, trace to 1% disseminated and nodular pyrite, trace multicoloured lithics, good inferred porosity.

SANDY SILTSTONE: (5 to 10%) dark yellowish brown to dark brown, dusky yellowish brown, soft to firm, sub-blocky, 15 to 25% very fine quartz, trace to 5% siderite content, 10 to 15% argillaceous matrix, trace glauconite, trace mica, trace nodular and disseminated pyrite.

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1430.0 to 1555 mMDRT(TD) **SANDSTONE**

SANDSTONE: (100%) light to medium yellowish brown, light to medium olive grey, clear to translucent quartz grains, loose, rare firm aggregates, silt size to fine grained, trace medium, dominantly fine, moderately sorted, sub-angular to sub-rounded, 10% - 15% quartz silt, 5% - 15% argillaceous content, (clay washing out), 1% - 3% micro-mica (muscovite), 2% - 4% dark green glauconite, nil to trace feldspar, nil to trace disseminated pyrite, trace multicoloured lithics, very good inferred porosity.

3.2 BIOSTATIGRAPHY

No Micropalaeontology or Palynology was undertaken.

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4.0 HYDROCARBON SHOWS

4.1 OIL FLUORESCENCE SHOWS

No oil fluorescence shows were observed in Baleen-3 or Baleen-3/ST1.

4.2 GAS SHOWS

Mud Gas was first recorded from 336.0 mMDRT; however, it was not until below 542.0 mMDRT that the gas readings rose above zero. The maximum gas recorded was 22.75% at 871.0 mMDRT. Only methane (C_1) was recorded throughout the drilling.

The mud gas is plotted on the Formation Evaluation Log (Enclosure 1). No Gas Ratio log was plotted as only C_1 was ever recorded.

A summary of drilled gas is in Table 4

TABLE 4 – Summary of Drilling Gas

INTERVAL (mRT)	Total Gas (%)	C_1 (ppm)	C_2 (ppm)	C_3 (ppm)	iC_4 (ppm)	nC_4 (ppm)	C_5 (ppm)
Baleen-3							
336 – 542	0	0	-	-	-	-	-
542 – 840	0.01 – 0.59	80 - 4000	-	-	-	-	
840 – 871	0.26 – 22.75	1720 - 111860	-	-	-	-	
871 – 1154	0.04 – 10.49	50 - 75990	-	-	-	-	
1154 – 1320	0.39 – 15.6	3140 - 96430	-	-	-	-	
1320 – 1352	0.12 – 0.34	850 - 2880	-	-	-	-	
Baleen-3/ST1							
1137 – 1240	0.03 – 14.3	300 - 103900	-	-	-	-	
1240 - 1555	0.03 – 8.48	1790 - 58150	-	-	-	-	

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5.0 LOGGING AND SURVEYS

5.1 MUD LOGS

Baker Hughes Inteq provided conventional mud logging services integrated with a computerised data logging and processing system.

The BHI unit was operated continuously throughout the well. The following logs were provided and are included as Enclosures: a Formation Evaluation Log (Enclosure 1), a Drilling Data Log (Enclosure 2), a Pressure Evaluation Log (Enclosure 3) and a Pressure Summary Plot (Enclosure 4). No Gas Ratio Log is enclosed as only C1 was ever recorded.
.

5.2 WIRELINE LOGS

No Wireline Logs were run in Baleen-3 or Baleen-3/ST1.

5.3 WIRELINE FORMATION TESTS

No wireline formation pressure tests were run in Baleen-3 or Baleen-3/ST1.

5.4 VELOCITY SURVEY

No Velocity Survey was undertaken in Baleen-3 or Baleen-3/ST1.

5.5 LWD

A summary of LWD runs is in Table 5 and the LWD operations reports are in Appendices 8 and 9. Mud data for log analyses is in Table 6.

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TABLE 5 - LWD LOG SUMMARY					
TOOL	**LOG TYPE**	**DATE**	**RUN**	**INTERVAL mMDRT**	**COMMENTS**
Baleen-3					
8" tools	DGR/EWRP4/ DM/DDS	25/5/02	1	112 - 336	17 ½" (444.5 mm) hole size
8" tools	DGR/EWRP4/ DM/DDS	29/5/02	2	336 - 458	12 ¼" (311 mm) hole size
8" tools	DGR/EWRP4/ DM/DDS	29/5/02-31/5/02	3	458 - 871	12 ¼" (311 mm) hole size
6 3/4" tools	DGR/EWRP4/ DDS/SLD/CNP/PM	1/6/02-3/6/02	4	871 - 1352	8 ½".(216 mm) hole size
Baleen-3/ST1					
6 3/4" tools	DGR/EWRP4/ SLD/CNP/DDS/PM	3/6/02-5/6/02	5	1137 - 1555	8 ½" (216 mm) hole size

TABLE 6 - MUD DATA from LWD report					
	Baleen-3				**Baleen-3/ST1**
RUN	1	2	3	4	5
TYPE	Seawater/Hi vis sweeps	KCl/PHPA/ GLYCOL	KCl/PHPA/ GLYCOL	FLO-PRO	FLO-PRO
DENSITY	1.04	1.06	1.06	1.16	1.18
VISCOSITY		92	54	64	64
FLUID LOSS		10	5.8	4.6	4.6
pH		9.5	9.5	9.5	9.5
Rm		0.06/23.00°C	0.14/26.00°C	0.08/26.00°C	0.08/26.00°C
Rmf		0.04/23.00°C	0.10/26.00°C	0.06/23.00°C	0.06/23.00°C
Rmc		0.14/23.00°C	0.17/49.00°C	0.13/26.00°C	0.10/26.00°C
Chlorides		37000	36000	80000	84000
Barite		-	-	-	-
KCl		4	4	3	3
Glycol		3	3	-	-

5.6 WELLHEAD LOCATION and TRAJECTORY

The rig positioning and trajectory surveys of the well can be found in Appendices 1 and 10 respectively.

5.7 SITE SURVEY

A site survey was undertaken by Thales Geosolutions (Australasia) Limited between 15th to 20th March, 2002 to investigate the suitability of the Baleen-3 location for the positioning of a semi-submersible drill rig prior to drilling. The resultant report is presented in Appendix 11.

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6.0 SAMPLE ANALYSES

6.1 OIL ANALYSES

No oil was observed or recovered from Baleen-3 or Baleen-3/ST1.

6.2 GAS ANALYSES

Three 20-litre surface gas samples from the separator line were submitted to Core Laboratories for analyses and the report is contained in Appendix 5.

A summary of the average gas composition analyses is in Table 7.

Table 7 - Summary of Average Gas Composition

Component	H_2S	CO_2	N_2	C_1	C_2	C_3	iC_4	nC_4	iC_5	nC_5	C_6+
Mol %	0.00	0.17	1.76	97.99	0.08	Trace	0	0	0	0	0

Trace=detected but less than 0.005mol%.

6.3 WATER ANALYSES

No water analyses were conducted for Baleen-3 or Baleen-3/ST1.

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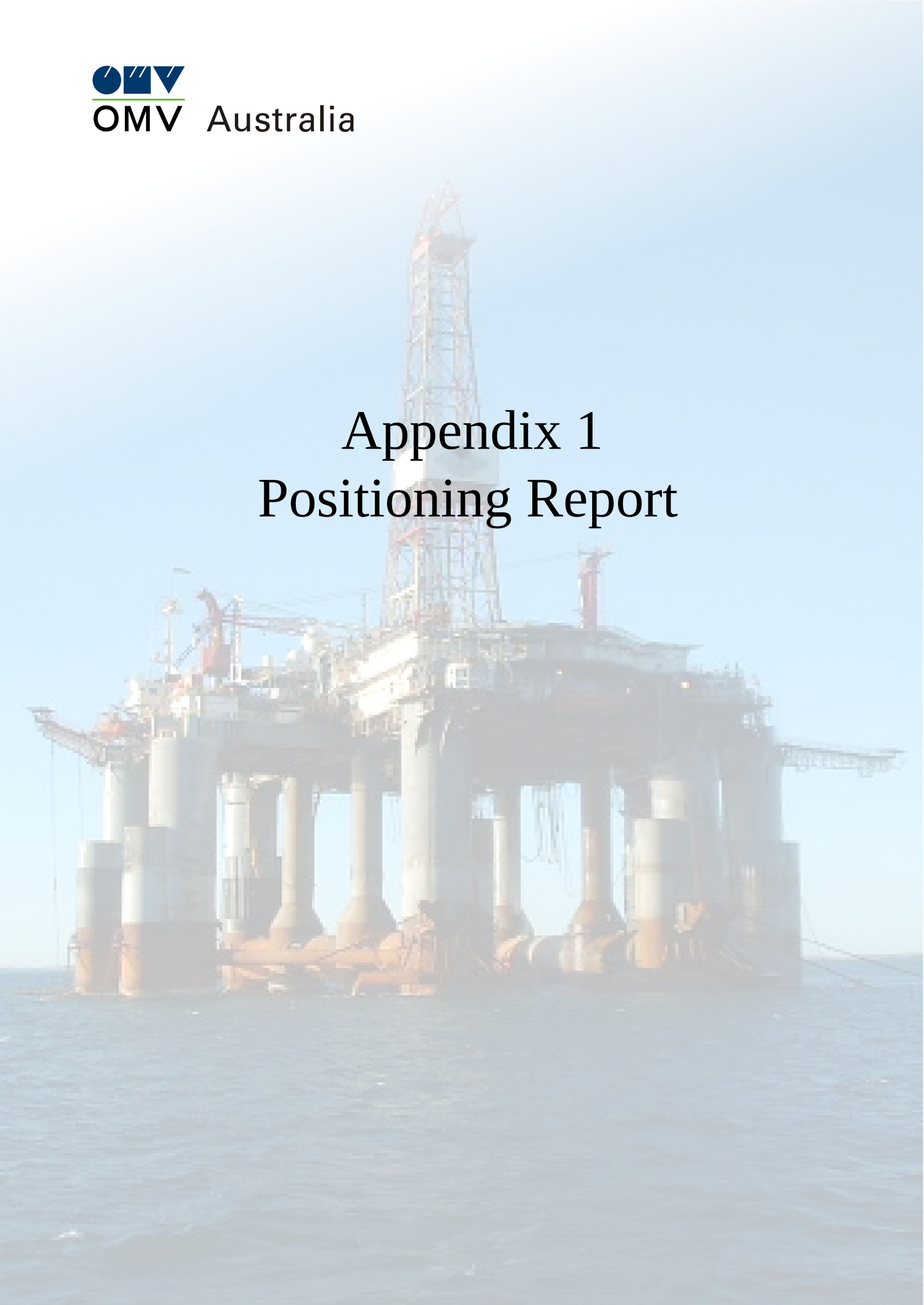

Appendix 1
Positioning Report

Baleen-3 Positioning Report of the Ocean Bounty

Prepared for
OMV Australia Pty Ltd

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Prepared for

OMV

OMV AUSTRALIA PTY LTD

BALEEN-3 POSITIONING REPORT OF THE OCEAN BOUNTY

DOCUMENT TITLE	:	**BALEEN-3 POSITIONING REPORT OF THE OCEAN BOUNTY**
CLIENT	:	**OMV AUSTRALIA PTY LTD**
LOCATION	:	**GIPPSLAND BASIN, BASS STRAIT**
PERMIT	:	**VIC/L21**
REPORT REF.	:	**3383A3**
REPORT REV NO.	:	**0**
REPORT ISSUE DATE	:	**7 JUNE 2002**
SURVEY DATE	:	**13 – 25 MAY 2002**

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APPENDICES

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F - GYROCOMPASS CALIBRATION REPORT

G - OCEAN BOUNTY OFFSET DIAGRAM

H - PACIFIC SENTINEL AND PACIFIC CONQUEROR OFFSET DIAGRAMS

I - GNS2 CONFIGURATION FILE PRINTOUT

J - DAILY REPORT SHEETS

LOCATION DIAGRAM

Coastline data is © Commonwealth of Australia, AUSLIG 1998. All rights reserved.

ABSTRACT

This report details the positioning services provided by Thales GeoSolutions (Australasia) Limited (Thales), prior to and during the positioning of the semi-submersible drilling rig Ocean Bounty at the Baleen-3 location for OMV Australia Pty Ltd (OMV).

Positioning of the Ocean Bounty during the approach to and at the Baleen-3 location was provided by Thales' SkyFix Spot Differential GPS (DGPS) interfaced to Thales' Multifix 3 multiple reference station positioning software and Thales' GNS2 rig move software. The two anchor handling vessels (AHVs), Pacific Sentinel and Pacific Conqueror were positioned using Thales' Tracs/TugNav Vessel Tracking System (VTS). The Ocean Bounty was positioned at the Baleen-3 location at 1410 on 23 May 2002.

Intended Baleen-3 Location

The co-ordinates of the intended Baleen-3 location were provided by OMV as follows:

Datum: AGD66

Latitude : 38° 00' 21.038" South
Longitude : 148° 26' 34.438" East

Projection: AMG Zone 55, CM 147° East

Easting : 626 676.40m
Northing : 5 792 539.70m

Rig Positioning Tolerance : ± 5m

Intended Rig Heading : 257.0° (T)

Final Differential GPS Drillstem Position at the Baleen-3 Location

The final Differential GPS Position of the Ocean Bounty drillstem at the Baleen-3 location was computed from data observed between 0707 and 0807 on 25 May 2002. The final position was as follows:

Datum: AGD66

Latitude : 38° 00' 20.986" South
Longitude : 148° 26' 34.415" East

Projection: AMG Zone 55, CM 147° East

Easting : 626 675.86m
Northing : 5 792 541.30m

The final Differntial GPS drillstem position is 1.69m on a bearing of 340.5° (T) from the intended Baleen-3 location.

Final Rig Heading : 257.6° (T)

All times quoted in this report are Eastern Standard Time (UTC + 10.0 hours).

1. RESULTS

1.1 FINAL DIFFERENTIAL GPS POSITION OF THE OCEAN BOUNTY DRILLSTEM AT THE BALEEN-3 LOCATION

The Ocean Bounty was positioned at the Baleen-3 location at 1410 on 23 May 2002.

The final Differential GPS position of the Ocean Bounty drillstem at the Baleen-3 location, was determined using Thales' MultiFix 3 positioning software interfaced to a Trimble 4000 DS GPS receiver, with differential corrections being provided by Thales' SkyFix Spot Differential GPS services.

The final fix routine, within Thales' GNS2 rig move software version 2.35, was used to compute the final Differential GPS position of the drillstem at the Baleen-3 location. A total of 720 position fixes were recorded at 5 second intervals between 0707 and 0807 on 25 May 2002.

Refer to Appendix A for the GNS2 final Differential GPS position printouts at the Baleen-3 location. Associated graphs are located in Appendix B.

Differential corrections from the SkyFix reference stations in Melbourne, Sydney and Adelaide were used in the MultiFix 3 software computations to derive the Differential GPS position.

The final surface co-ordinates for the Baleen-3 well, determined from Differential GPS observations were as follows:

Total number of samples used = 720.

The computed antenna position was as follows:

GPS Antenna Position

Datum: WGS84

Latitude	:	38° 00' 15.687" South	(S.D. 0.26m)
Longitude	:	148° 26' 37.576" East	(S.D. 0.30m)
Ellipsoidal Height	:	43.73m	(S.D. 0.66m)

Transforming the above WGS84 co-ordinates to AGD66 co-ordinates using the parameters in section 6, gives the following antenna co-ordinates:

GPS Antenna Position

Datum: AGD66

Latitude	:	38° 00' 21.214" South
Longitude	:	148° 26' 33.055" East
Ellipsoidal Height	:	50.59m

By applying a distance of 33.90m on a bearing of 78.1° (T) from the antenna position, the following drillstem co-ordinates were calculated:

Final Differential GPS Position of the Drillstem at the Baleen-3 Location

Datum: AGD66

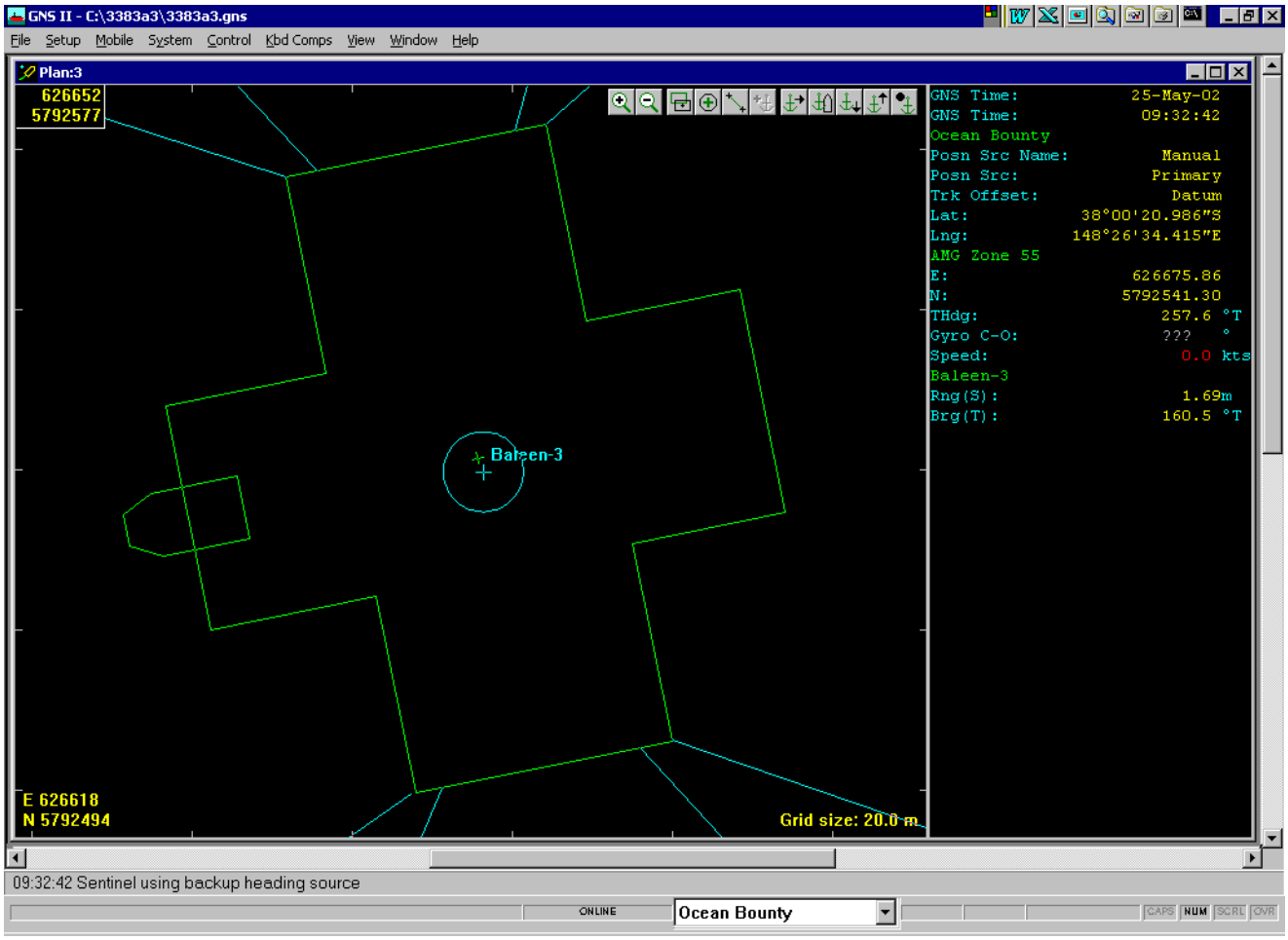
Latitude : 38° 00' 20.986" South
Longitude : 148° 26' 34.415" East

Projection: AMG Zone 55, CM 147° East

Easting : 626 675.86m
Northing : 5 792 541.30m

This final Differential GPS position of the drillstem is 1.69m on a bearing of 340.5° (T) from the intended Baleen-3 location.

Final Rig Heading : 257.6° (T)



Skyfix Spot Differential GPS Position and Intended Position at the Baleen-3 Location

1.2 OCEAN BOUNTY ANCHOR POSITIONS

Deployed anchor positions were derived from the computed anchor function within the GNS2 software. The function takes into account the length of anchor chain out, water depth, anchor tension and the wet weight of anchor chain to compute the deployed anchor positions. The final anchor positions are tabulated below:

Datum: AGD66 Projection: AMG Zone 55, CM 147° East

Anchor	Intended Anchor Position		Final Anchor Position	
	Easting (m)	Northing (m)	Easting (m)	Northing (m)
Anchor 1	626 300	5 791 344	626 348	5 791 776
Anchor 2	625 768	5 791 684	625 835	5 791 915
Anchor 3	625 497	5 792 947	625 686	5 792 890
Anchor 4	625 842	5 793 476	625 993	5 793 275
Anchor 5	627 053	5 793 736	626 879	5 793 328
Anchor 6	627 585	5 793 396	627 620	5 793 415
Anchor 7	627 856	5 792 132	627 574	5 792 207
Anchor 8	627 511	5 791 604	627 345	5 791 788

Difference of final anchor positions from the intended anchor positions.

Anchor	Dropped by	Eastings (m)	Northings (m)
Anchor 1	P.Conqueror	+48.7	+432.2
Anchor 2	P.Conqueror	+66.6	+230.7
Anchor 3	P.Conqueror	+188.8	-57.1
Anchor 4	P.Conqueror	+150.9	-200.9
Anchor 5	P.Conqueror	-174.6	-407.5
Anchor 6	Ocean Bounty	+35.4	+19.9
Anchor 7	P.Conqueror	-281.6	+75.4
Anchor 8	P.Conqueror	-165.7	+184.4

Horizontal distance and bearing from the Ocean Bounty fairleads to the final anchor positions.

Anchor	Easting (m)	Northing (m)	Bearing (T)	Horizontal Distance (ft)
1	626 348	5 791 776	203.2°	2603
2	625 835	5 791 915	234.0°	3340
3	625 686	5 792 890	287.1°	3333
4	625 993	5 793 275	315.6°	3158
5	626 879	5 793 328	14.0°	2533
6	627 620	5 793 415	47.5°	4110
7	627 574	5 792 207	108.0°	3032
8	627 345	5 791 788	137.0°	3175

Ocean Bounty anchor details are located in Appendices C, D and E of this report.

2. SAFETY

A pre-rig move meeting was held at Thales' Perth offices on 10 May 2002. Thales personnel N. Mackay, M. Dybala and E. Greenfield were present. During the meeting safety procedures were discussed including correct operation and handling of equipment. It was also confirmed that personnel had been issued with the appropriate safety equipment.

All Thales personnel attended DOGC's daily pre-tower meetings and the weekly safety meeting on 21 May 2002.

A fire alarm was sounded on 17 May 2002, all Thales personnel promptly reported to their stations and remained there until the all clear was given.

Should an incident occur, Thales' procedures require the incident to be recorded on the appropriate forms and Thales' QA & Safety Manager to be notified immediately. The QA & Safety Manager will initiate a full and thorough investigation with corrective action being introduced to prevent further incidents.

There were no incidents involving Thales personnel during this project. Thales personnel carried out their duties at all times in accordance with Company and Statutory Regulations and Guidelines.

When demobilising the Ocean Bounty, all equipment was packed securely in the designated area where they would not cause obstructions. All heavy or fragile boxes were clearly labelled to avoid accidents during handling.

A project debrief was also held at Thales' Perth offices on 5 June 2002. During the meeting the safety procedures that had been undertaken were discussed and reviewed. It was noted that all personnel had taken due care and as a result there had been no incidents.

3. SUMMARY

3.1 REQUIREMENTS

Thales GeoSolutions (Australasia) Limited were contracted by OMV Australia Pty Ltd to provide personnel and positioning equipment consisting of Thales' SkyFix Spot Differential GPS for the rig move of the Ocean Bounty to the Baleen-3 location.

The project requirements were as follows:

(a) Provide real-time positioning of the semi-submersible drilling rig Ocean Bounty and the anchor handling vessels Pacific Sentinel and Pacific Conqueror, during the final transit to the Baleen-3 location.

(b) Differential GPS Positioning of the Ocean Bounty at the Baleen-3 location.

(c) Real-time positioning (including GNS2 fixing/logging/streaming) of the Ocean Bounty and the Pacific Sentinel and Pacific Conqueror during anchor deployment operations at the Baleen-3 location.

(d) Determine the final Differential GPS position of the Ocean Bounty drillstem at the Baleen-3 location using a Multiple Reference Station Differential GPS solution.

(e) The provision of a comprehensive positioning report containing the final Differential GPS position of the Ocean Bounty drillstem and anchors at the Baleen-3 location.

The positioning requirements were as follows:

(a) Intended Baleen-3 location was supplied by OMV as follows:

Datum: AGD66

Latitude	:	38° 00' 21.038" South
Longitude	:	148° 26' 34.438" East

Projection: AMG Zone 55, CM 147° East

Easting	:	626 676.40m
Northing	:	5 792 539.70m

(b) Positioning tolerance : ± 5m

(c) Intended rig heading : 257.0° (T)

3.2 SUMMARY OF EVENTS

All times quoted are in Eastern Standard Time (UTC + 10.0 hours).

13 May 2002

0800 Thales personnel M.Dybala (MD), S.Bradley (SB) and E.Greenfield (EG) depart Perth and transit to Melbourne.

14 May 2002

0815 Thales personnel MD, SB and EG depart Melbourne and transit to Ocean Bounty (OB) at anchor Lat: 38° 32' 05" S Long: 144° 05' 55" E, arriving 1130.
1430 Thales equipment operational. Tracs not tested.
2100 Tracs working with basic GNS configuration only.

15 May 2002

0000 OB at anchor Lat: 38° 32' 05" S Long: 144° 05' 55" E.
1653 Commence anchor recovery operations.

16 May 2002

0240 OB departs location for Baleen-3.
0800 Conduct gyrocompass calibration.
2400 OB under tow at Lat: 39° 17' 17" S Long: 146° 23' 59" E.

17 May 2002

1730 Fire alarm sounded, all personnel muster at lifeboats.
2400 Approach to Baleen-3 halted. OB running along 100 fathom line due to weather.

18 May 2002

0620 PS advised MD of alarm from navigation equipment, PS advised to turn equipment off. SB advised, possibly key stuck on keyboard.
1200 Tracs operating with PC and test unit on rig. The PS is not operational at this time.
2400 OB running along 100 fathom line due to weather.

19 May 2002

0000-2400 OB running along 100 fathom line due to weather.

20 May 2002

0000 OB running along 100 fathom line due to weather.
0700 Tracs signal from PC erratic, Diff. Corrections dropping out occasionally.
1430 SB departs OB.
2400 On approach to Baleen-3. Lat: 38° 23' 20" S Long: 148° 56' 20" E 33.7nm from Baleen-3.

21 May 2002

0810 Approach to Baleen-3 aborted due to weather. 23.05 nm from Baleen-3 location.
2400 Standby for weather. Lat: 38° 13' 29" S Long: 148° 43' 29" E 19.2nm from Baleen-3.

22 May 2002

0000-2400 Standby for weather.

23 May 2002

0000 Heading for Baleen-3 location.
0710 Commence run-in to Baleen-3.
1325 Commence anchoring operations.
1410 OB over Baleen-3 location.
1415 EG transfers to PC to check GNS setup.
1700 Tracs not operational on PC.
1830 Load spare pod onto PC.
1905 Good Tracs signal from PC.
2014 #1 PCC broke. Anchor left hanging under fairlead.

24 May 2002

1115 Complete storm tensioning, commence ballasting down to drilling draft.
1400 EG transferred from PC to PS to check GNS configuration and Tracs system.
1500 Conduct tests of Tracs with both vessels operational.

25 May 2002

0703 Commence final fix at Baleen-3 location.
0803 Complete final fix. OB datum position is 1.7m @ 340° from the Baleen-3 location. Final fix accepted by Survey QC. Height of rotary table calculated as 26.25m above LAT.

Engineering Comment

It has been ascertained that the pod antennae in service on the two vessels have malfunctioned. These have been changed out with the spare units and the Tracs system is now operating correctly. The cause of the malfunction will be determined when both units are disassembled in Perth, but preliminary observations would suggest excessive vibration may have caused failure of some of the internal components or connectors.

4. EQUIPMENT ANALYSIS

4.1 EQUIPMENT PERFORMANCE

Throughout the approach to and during anchor deployment at the Baleen-3 location the Tracs TDMA link to the Pacific Sentinel was corrupted and no position data was available for the Pacific Sentinel, as a result only the Pacific Conqueror was used to run anchors at the Baleen-3 location.

An intermittent fault with the Tracs TDMA link to the Pacific Conqueror was also encountered. Vessel navigation to intended anchor locations was performed under instruction from Thales personnel onboard the Ocean Bounty in these instances.

Thales personnel were transferred to the Pacific Sentinel and Pacific Conqueror prior to completion of the project. Both Tracs TDMA Geopods were replaced with spare units. The suspected faulty Geopods were returned to the Thales workshop for investigation and testing.

Thales personnel tested the Tracs TDMA system once the Geopods had been changed out and it appeared to be functioning correctly.

The above problems were discussed at length in the project debrief, it was recommended that the faulty Geopods be investigated thoroughly to determine possible causes of the Tracs TDMA link corruption.

5. EQUIPMENT CHECKS AND CALIBRATIONS

5.1 DIFFERENTIAL GPS CHECK

Thales personnel boarded the Ocean Bounty anchored at a location of unknown exact co-ordinates. As a result a Differential GPS check fix using published location co-ordinates was not possible.

All geodetic parameters, antenna offsets and their correct application within GNS2 were checked by Thales surveyor M. Dybala and client representative W. Edmonds.

These calculations and comparisons were within acceptable limits and Thales' equipment was accepted by client representative W. Edmonds as operating correctly.

5.2 GYROCOMPASS CALIBRATION

The S.G. Brown 1000S gyrocompass installed onboard the Ocean Bounty was calibrated on 16 May 2002 using a marine sextant. A series of measurements of the horizontal angle between the centreline of the rig and the sun was observed while accurately recording local time at the instant of each observation. The gyrocompass heading was simultaneously recorded within GNS2 data files.

Thales' Solar Observation software was used to determine the azimuth of the sun for each observation. The observed horizontal angle was applied to the sun's azimuth to determine the true heading of the rig. Each Computed (C) true heading was then compared with the Observed (O) gyrocompass heading to determine the Computed minus Observed (C-O) value for the gyrocompass. The C-O value in GNS2 was set to zero prior to conducting the gyrocompass calibration.

Observation Date : 16 May 2002

Average Local Time (HMS)	Average Horizontal Angle (DMS)	Azimuth Sun (DMS)	Azimuth RO (DMS)	Calculated (C) True Heading (D.D)	Observed (O) True Heading (D.D)	C-O (D.D)
8:04:24	311° 11' 24"	058° 29' 05"	107° 17' 41"	107.3°	105.2°	2.1°
8:06:35	310° 28' 36"	058° 06' 49"	107° 38' 13"	107.6°	105.5°	2.1°
8:08:37	310° 26' 36"	057° 45' 59"	107° 19' 23"	107.3°	105.2°	2.1°
8:09:51	311° 40' 24"	057° 33' 19"	105° 52' 55"	105.9°	104.0°	1.9°
8:11:29	308° 45' 24"	057° 16' 28"	108° 31' 04"	108.5°	106.3°	2.2°
8:12:57	310° 50' 00"	057° 01' 18"	106° 11' 18"	106.2°	103.8°	2.4°
8:14:07	309° 20' 48"	056° 49' 11"	107° 28' 23"	107.5°	105.5°	2.0°
8:15:03	309° 25' 00"	056° 39' 29"	107° 14' 29"	107.2°	105.0°	2.2°
8:15:56	309° 05' 48"	056° 30' 16"	107° 24' 28"	107.4°	104.5°	2.9°
8:18:34	307° 10' 24"	056° 02' 43"	108° 52' 19"	108.9°	106.8°	2.1°

Mean C-O = +2.2°

The mean C-O of +2.2° was input into the GNS2 navigation software. See Appendix F for the gyrocompass calibration results.

6. GEODETIC PARAMETERS

Co-ordinates listed in this report are referenced to the Australian Geodetic Datum 1966 (AGD66). The Global Positioning System (GPS) is referenced to the World Geodetic System 1984 (WGS84).

6.1 DATUMS

Datum	:	**AGD66**
Spheroid	:	Australian National Spheroid
Semi-major Axis (a)	:	6 378 160.000m
Semi-minor Axis (b)	:	6 356 774.719m
Eccentricity Squared (e^2)	:	0.006 694 542
Flattening ($^1/_f$)	:	298.25
Datum	:	**ITRF 92 (Epoch 1994.0) WGS84 G730**
Spheroid	:	WGS84
Semi-major Axis (a)	:	6 378 137.000m
Semi-minor Axis (b)	:	6 356 752.314m
Eccentricity Squared (e^2)	:	0.006 694 380
Flattening ($^1/_f$)	:	298.257 223 563

6.2 PROJECTION

Projection Name	:	**Australian Map Grid 1966 (AMG66)**
Projection Type	:	Universal Transverse Mercator
AMG Zone	:	55
Central Meridian (CM)	:	147° East
Scale factor on the CM	:	0.9996
False Easting	:	500 000m
False Northing	:	10 000 000m
Latitude of Origin	:	0° (Equator)
Unit of Measure	:	International Metre

6.3 DATUM TRANSFORMATION

The following 7-parameter datum transformation was used by the GNS2 software to convert WGS84 co-ordinates to AGD66 co-ordinates:

Dx	=	+123.314m
Dy	=	+47.223m
Dz	=	– 136.594m
Rx	=	+0.264"
Ry	=	+0.322"
Rz	=	+0.270"
Scale	=	+1.384 p.p.m.

The sign convention in Thales' GNS survey software used is that used by the US Department of Defense and by Higgins, where a positive rotation about the Z axis is an anti-clockwise movement of the X and Y axes (when viewed from the North Pole looking towards the center of the Earth).

7. EQUIPMENT DESCRIPTIONS

7.1 GNS2

GNS2 (General Navigation System) is Thales' third generation of On-line Navigation Survey Control software. It has been written by Thales' Software Support Group in C++ for operation under Windows® 95 or Windows® 98 or Windows® NT. GNS2 adheres to the operation and dialogue conventions of the Microsoft Windows® environment. Attention has been paid to preserving a consistent operator interface, while at the same time modifying individual dialogue boxes to reflect specific logical circumstances. It has been designed for operation with a pointing device such as a mouse or a tracker ball but control can still be effected in case of the absence or failure of such a device.

The program has the ability to accommodate a large number and variety of mobiles, including surface vessels/ships, anchor handling vessels, tugs, barges, ROVs, towfish, aircraft, vehicles and submersibles etc. The only limiting factors on the number of mobiles that can be tracked in GNS2 are the number of input/output serial communication ports available on the computer and the computer's memory.

For the input/output (I/O) of navigation and sensor data, GNS2 employs intelligent multi-channel serial communications boards to expand a computer's serial input/output facility. Currently GNS2 can support up to 26 communication (Comm) ports, which would consist of the computer's two internal Comm ports and three 8 channel serial communications boards fitted in the computer's internal expansion slots.

If Least Squares Computations (LSCs) are employed for positional calculations, whether two-dimensional (2D), three-dimensional (3D) or altitude aided, GNS2 uses standard iteration routines for the minimisation of residuals using 'variation of co-ordinate' algorithms. The number of positioning systems/computations that GNS2 can handle, is only limited by the number of I/O serial communication ports available on the computer and the computer's memory.

All input observables are accepted on interrupt. Screen updates and other internal triggers are paced to once per second but time critical activities occur at discrete moments as required.

The GNS2 application workspace can extend beyond the display area, which is normally restricted to a single monitor connected to the computer. By using one or more multiple VGA cards, an enlarged display area can spread across multiple monitors.

Currently GNS2 can display 14 different types of view windows. Several copies of the same type of view window can be invoked at any one time. This may be required when several mobiles are being tracked and a Plan, Helmsman's or Bullseye display are required for each one or when the data on several Comm ports are to be viewed simultaneously. Each window can be individually sized to optimise use of the available display area.

GNS2 can be operated in 2 modes; GNS2 Master or GNS2 Remote. GNS2 Master has the full functionality of GNS2. GNS2 Remote is run on a separate computer and allows independent configuration of the graphics display and its associated numeric information. GNS2 Remote is operated on Anchor Handling Vessels or anywhere where positional information is required. (eg. Vessel Masters, ROV Pilots, Winch Control Stations). The link between GNS2 Master and GNS2 Remote can be via a telemetry link or hard wired cable.

7.2 GLOBAL POSITIONING SYSTEM (GPS)

System Description

The NAVSTAR GPS (Navigational Satellite Timing and Ranging Global Positioning System) is a USA Military all-weather, space-based positioning system that transmits signals from a constellation of satellites orbiting the Earth. It is capable of providing suitably equipped users worldwide with accurate three-dimensional positions on, or near, the Earth's surface. The accuracy of these determined positions can vary from a few millimetres to several 10's of metres depending on the GPS receiver and on the method of data acquisition and processing. System design consists of three integrated parts: the Ground Control Segment, the Space Segment and the User Segment.

The operational space segment consists of 24 production satellites and 3 active spares; the term Space Vehicle (SV) is used as a synonym for satellite. The satellites are in high orbits, at approximately 20,200km, having an orbit period of 12 hours. They are arranged in 6 orbital planes, inclined at 55 degrees with near circular orbits. The configuration provides complete 4-satellite (3D) coverage worldwide.

GPS Observations

There are two important types of GPS observations (observables): Pseudo-range and Carrier Phase. Carrier phase is sometimes also referred to as carrier beat phase. Pseudo-range techniques are generally used for navigation. In high-precision baseline surveying the carrier phase is used. Although the (undifferenced) phase can be used directly, it has become common practice, at least in surveying applications, to process certain linear combinations of the original carrier phase observations (double differences and triple differences).

Pseudo-ranges

The pseudo-range is a measure of the distance between the satellite and the receiver at the epochs of transmission and reception of the signals. The transit time of the signals is measured by comparing (correlating) identical pseudo-random noise (PRN) codes generated by the satellite and by the receiver. A code-tracking loop within the receiver shifts the internal replica of the PRN code in time until maximum correlation occurs. The codes generated at the receiver are derived from the receiver's own clock, and the codes of the satellite transmissions are generated by the satellite system of clocks. It follows that unavoidable timing errors in both the satellite and the receiver clock will cause the measured quantity (pseudo-range) to differ from the geometric distance.

Where instantaneous positions are required, pseudo-range is the preferred observable. Given the satellite ephemeris (i.e. the position of the satellite at the epoch of transmission), there are seven unknowns: two clock errors, three receiver co-ordinates and the ionospheric and tropospheric delays. The effect of the satellite clock error is negligible for the typical navigation solution, particularly considering that the time errors are indistinguishable from the ionospheric and tropospheric delays. The satellite clocks are constantly monitored and synchronised with GPS time as maintained by the control centre. Actual offsets of the satellite clocks are approximated by polynomials in time and transmitted as part of the navigation message to the user for the correction of the measured pseudo-ranges. The ionospheric and tropospheric delays can be computed on the basis of ionospheric and tropospheric models, thus there are four unknowns left X, Y, Z and receiver clock error. These can be determined from four pseudo-ranges measured simultaneously to four GPS satellites.

Carrier Phase

The phase observable is the difference between the phase of the carrier signal of the satellite, measured at the receiver, and the phase of the local oscillator within the receiver at the epoch of measurement. This can be regarded as a biased range measurement of the satellite-receiver distance with the integer number of carrier waves being unknown. The wavelength of the L1 carrier is about 19cm. Because of the fraction of the carrier phase is measured, the term "interferometry" is often used to describe carrier phase techniques.

7.3 SKYFIX/SKYFIX SPOT DIFFERENTIAL GPS (DGPS)

Differential GPS (DGPS)

GPS is primarily a USA Defence space-based positioning system capable of operating worldwide and in all weather conditions. The USA Military can degrade the accuracy of GPS with the use of Selective Availability (SA) to control the accuracy of Pseudo-range measurements. Essentially, the user is given a false Pseudo-range for each satellite so that the resulting measurement is in error by a controlled amount. On the 1 May 2000 SA was discontinued conditionally and coincided with the successful demonstration of the ability to selectively deny GPS signals on a regional basis. SA has been set to zero and can be reinstated during periods of heightened global tension.

GPS signals are affected by several sources of positional bias, the largest of which was SA. The remaining biases of the ionosphere, the troposphere, time, satellite ephemeris and inherent reciever noise also give rise to substantial bias of position.

Differential GPS is a means by which the civil user can improve the accuracy and quality of GPS to the 1-3 metre level. It requires a receiver be located at a precisely known point from which pseudo-range corrections for each satellite can be determined and monitored. These pseudo-range corrections are then communicated by means of a telecommunications link to users at unknown locations. In the relative mode, most of the important systematic errors common to the known station and at the unknown location cancel out to improve the accuracy of the computed position.

SkyFix/SkyFix Spot Differential

SkyFix

Thales GeoSolutions (Australasia) Limited introduced its SkyFix Differential GPS System in Australia in February 1991, using the Inmarsat Pacific and Indian Ocean marine communications satellites as the differential data broadcast link. Extensive performance trials and projects undertaken to date have shown SkyFix to meet the best industry expectations in terms of quality of service and accuracy.

Satellite communications systems, particularly at the Inmarsat L-band frequencies of 1.5 GHz are reliable and free of the interference associated with the crowded MF/HF bands. This high data integrity gives users confidence that the corrections will be continuously received without interference.

The SkyFix Australian network comprises of reference stations at Dampier, Broome, Perth, Adelaide, Melbourne, Sydney, Cairns and Darwin.

SkyFix Spot

The SkyFix Spot Differential GPS System was launched in Australia in December 1994, using the OPTUS high powered focused communications satellite as the differential data broadcast link. Projects undertaken to date have shown SkyFix Spot to meet the industry expectations in terms of quality of service and accuracy.

The SkyFix Spot system has a link capacity of 1200 bits per second, similar to the SkyFix system but because it is only transmitting corrections from the Australian network an update rate of better than five seconds is achieved.

The OPTUS satellite uses the L-band frequencies of 1.5586 GHz and are very reliable and free of interference avoiding data loss associated with the crowded MF/HF bands.

The SkyFix Spot network comprises of reference stations at Dampier, Broome, Perth, Adelaide, Melbourne, Sydney, Cairns, Darwin, Alice Springs and also Ujung Pandang and Jakarta in Indonesia and Wellington, New Zealand.

The differential corrections generated at each reference station are brought via landline links to the data hub and control centre in Singapore, where the system is monitored for performance and quality. From there, a composite message containing full RTCM 104 version 2 formatted data from all reference stations are sent via dual redundant links to Satellite Earth Stations at Sentosa Island, Singapore, O.T.C. Perth, Western Australia and OPTUS, Perth, Western Australia, for uplink and broadcast over the Inmarsat Pacific and Indian Ocean Region satellites and the OPTUS Satellite.

The SkyFix/SkyFix Spot system includes a 24 hour monitoring facility to ensure the validity of data received at the control centre from the Differential GPS reference stations, and that the same data are received over the SkyFix/SkyFix Spot satellite data link.

7.4 TRIMBLE SERIES 4000 GPS RECEIVER

The Trimble Series 4000 GPS receiver is designed for moderate precision static and dynamic positioning applications. The GPS receiver provides time and three-dimensional station co-ordinates at a once-per-second update rate.

The receiver receives the civilian coded signal (C/A) from the GPS NAVSTAR satellites. The receiver automatically acquires and simultaneously tracks GPS satellites and precisely measures code phase and computes position and velocity.

Latitude, longitude and height values are output on the World Geodetic System (WGS84) Earth-centred, Earth-fixed co-ordinate system.

The receiver is designed to measure the following observables:

- Coarse/Acquisition (C/A) code Pseudo-ranges
- Rate of change of Pseudo-range
- Integrated Carrier

C/A code correlation techniques measure the propagation time of the signal from the satellite to the antenna. Latitude, longitude, height and time can be determined from measurements made from at least 4 satellites, by a process similar to triangulation.

To determine speed and heading, the receiver calculates the rate of change of Range (the range-rate) by measuring the Doppler shift of the carrier.

It is capable of receiving and processing differential corrections from other reference sources using the standard format of the Radio Technical Commission for Maritime Services, Special Committee 104 (RTCM SC-104), Version 1.0 or 2.0 protocols.

The Trimble Series 4000 GPS receiver has several options available, including internal data logging memory, event marker logging etc. and therefore may be used alone or as part of a more extensive navigation system.

7.5 MULTIFIX 3

7.5.1 System Overview

MultiFix 3 is Thales GeoSolutions third generation *multiple reference station* differential GPS (DGPS) real time position computation and quality control program. It is an integral part of the Thales SkyFix Premier service but can also be used with the standard SkyFix service. MultiFix 3 has more advanced features than its predecessor, MultiFix 2, including being able to use dual frequency receivers and form real time 'Iono-Free DGPS position solutions'.

MultiFix 3 is one of a series of programs available under the group name Zero, which includes other tools and utilities with a similar user interface and layout structure, like static and dynamic position comparison programs, a correction monitor program, a terminal program and a replay utility.

MultiFix 3 takes in Almanac, Ephemeris and Raw Code and Carrier measurements from a single or dual frequency GPS receiver (or, for replay, from logged files). It takes in RTCM SC104 Version 2 differential correction messages from one or more RTCM correction delivery systems. It also takes in RTCM Type 15 or Thales Proprietary RTCM Type 55 Ionospheric range corrections generated at selected SkyFix Premier reference stations and broadcast via the Thales global network of high (SkyFix Spot-Optus) and low (SkyFix-Inmarsat) power satellite based L-Band beams.

Key features of the program are:

- No limit on the number of RTCM correction delivery systems (data links)
- No limit on the number of RTCM differential reference stations
- No limit on the number of computations (solutions)
- Each computation can employ corrections from any combination of reference stations available
- Computations are weighted least squares with statistical evaluation based upon the UKOOA recommendations
- No limit on the number of outputs
- No limit on the number of view windows
- View windows can be customised
- Extra NMEA outputs can be defined
- TCP/IP communication via sockets for GPS, RTCM and position data transfer between networked computers

MultiFix 3 has been designed in a modular fashion such that data is passed between modules as if over a computer network. The core module MultiFix 3 performs the computation of position. Additional modules are available and more will be made available in the future. While a single computer can be used, the various modules will equally be able to be run on different computers, provided there is a network interconnection.

MultiFix 3 uses the EGM96 geoid/spheroid separation model.

The RTCM corrections that are generated at reference stations are contaminated by a variety of error components, one of which is Ionospheric delay. The Ionospheric delay is currently more variable because of greater sun spot activity. MultiFix 2 and MultiFix 3's standard computation uses the Klobuchar Ionospheric delay model. This model is updated periodically but is not responsive to the current short-term variability. MultiFix 3 has an additional calculation option when working with dual frequency receivers and in receipt of Type 15 or 55 RTCM messages. With dual frequency receivers, estimates can be made of the Ionospheric delay by examining the differences between the measurements from the two frequencies. If the same procedure for estimation of Ionospheric delay is performed at the reference stations and on the mobile, both the RTCM corrections and the pseudo-ranges can have the Ionospheric delay removed, effectively providing an Iono-Free DGPS position solution.

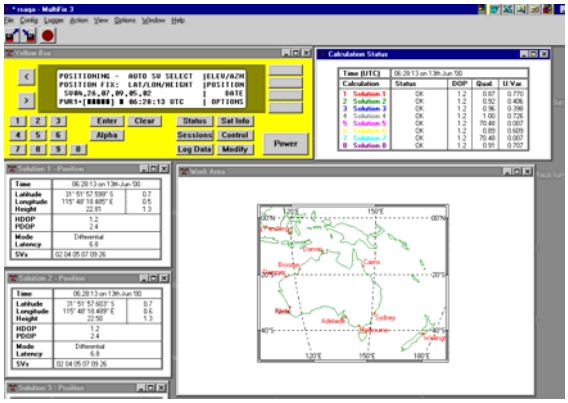
7.5.2 Hardware Requirements

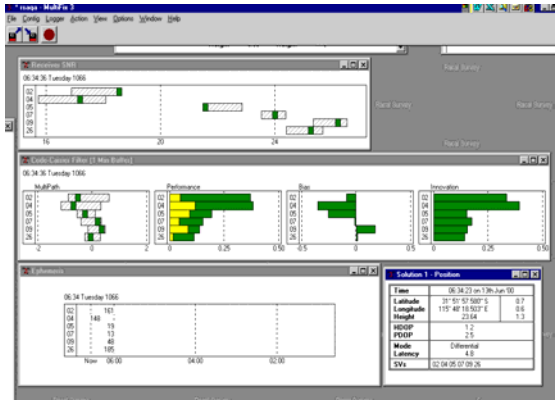
Optimum requirements for MultiFix 3 are:

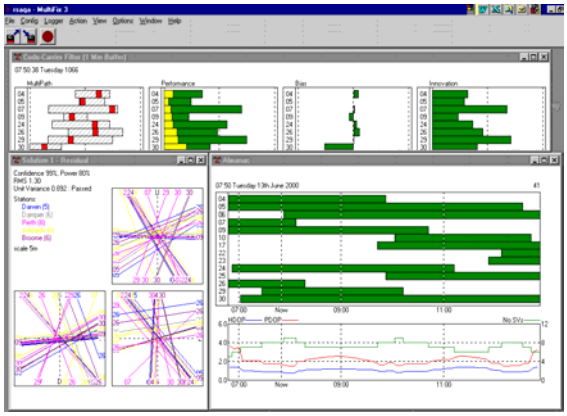
- 350 MHz Pentium II computer
- 32 Mb RAM
- Windows 95, 98 or NT operating system
- Graphics resolution of at least 800 x 600 pixels
- Intelligent multi-port serial I/O board

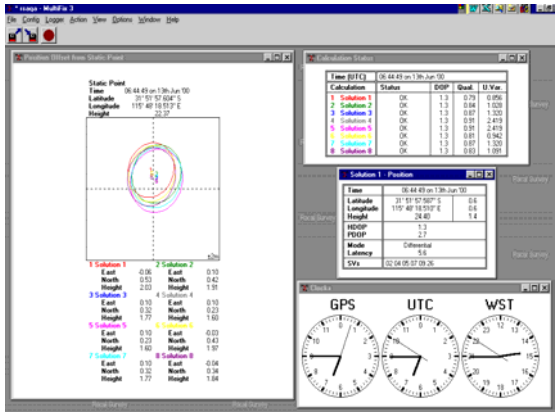
7.5.3 Positioning and Quality Control Displays

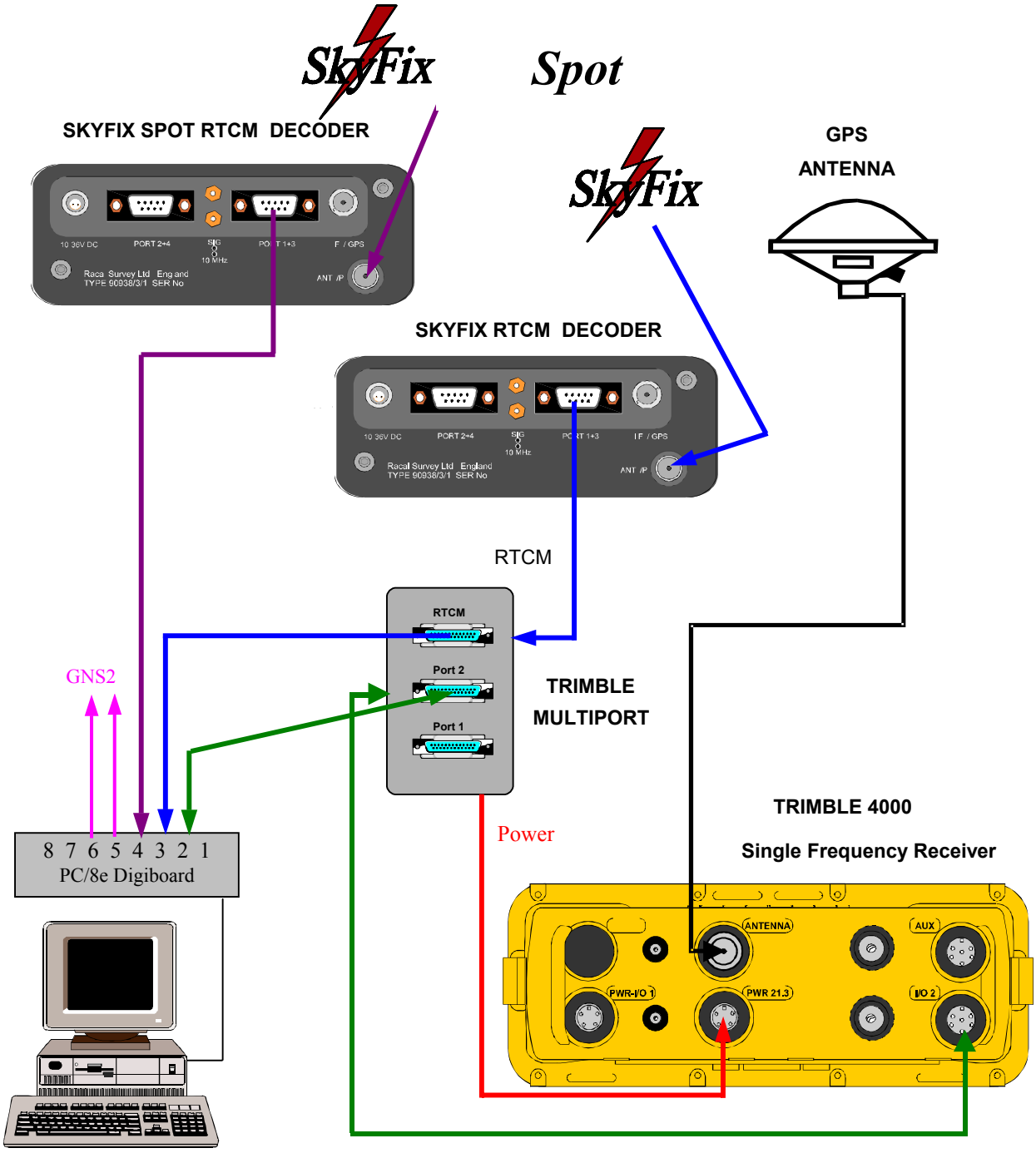
MultiFix 3 has a large number of features to accomodate the user requirements of highly accurate positions with quality control (QC) information and outputs in different formats. MultiFix 3 runs in a Windows environment, which allows the user to design a preferred screen layout by opening, sizing and placing the numerous displays that are available. Examples of the various displays can be found below.











Typical MultiFix 3 Interconnection With Trimble 4000 GPS Receiver

7.6 TRACS TDMA

Tracs TDMA (Time Division Multiple Access) is a high speed, intelligent network radio datalink which can operate in the VHF or UHF bands to provide an addressable network with integrated position reporting from an integrated/internal GPS receiver. The standard Tracs units are fitted with a Trimble SK8 GPS receiver, or a Trimble DSM GPS receiver.

Each unit in the network is assigned a unique address (1 to 255) enabling messages can be specifically addressed to that unit. A broadcast address (0) is provided to allow multiple units to receive a message, for example RTCM corrections. The system manages the data bandwidth by dividing it into timeslots synchronised by means of GPS 1PPS (pulse per second) timing pulse from an internal GPS receiver.

The standard Tracs system has a frequency band of 455.0MHz to 465.0MHz (frequency module 53R). The channel frequencies can be selected in 25kHz steps and the units are equipped with the facility to pre-store 10 selected frequencies within the 10MHz band. Units for use in Australia are fitted with 471MHz radios.

There are four types of messages that can be transmitted in a Tracs network.

- Position Reports automatically generated from the SK8 or DSM GPS receiver as a NMEA type or Raw Pseudo Range information.
- Transparent messages used to send unformatted data across the network eg. RTCM corrections.
- Open messages used to provide a general-purpose data link between units. This format is used by GNS to transfer information.
- Configuration messages used for remote configuration of units using the Destination ID to identify which unit is being configured.

7.7 S.G. BROWN 1000S GYROCOMPASS

The S.G. Brown 1000S Gyrocompass is a compact, simple-to-operate master heading reference instrument employing the effect of gravity and the earth's rotation to produce a True North reference. This reference may be read off the compass card or from a digital display and can be interfaced to the GNS2 navigation system.

The normal starting cycle of the instrument is fully automatic and is initiated when the system power supply is switched on. A fail safe control circuit is incorporated which ensures that the compass is not damaged after a power failure when power is restored; the compass will restart automatically and carry out its normal settling program.

8. PERSONNEL AND EQUIPMENT

8.1 PERSONNEL

The following personnel were employed on this project:

For : Thales GeoSolutions (Australasia) Limited

M. Dybala	:	Surveyor/Team Leader
S. Bradley	:	Senior Engineer
E. Greenfield	:	Engineer

For : OMV Australia Pty Ltd

W. Edmonds	:	Client Representative

8.2 EQUIPMENT

The following equipment was provided for this project:

Ocean Bounty

2 x Compaq Computer, inc monitor, keyboard (for GNS2 / MultiFix 3)

1 x Thales SkyFix Mini Rig Portable

3 x SkyFix/SkyFix Spot MK II Receivers

1 x Compaq Computer, inc. monitor, keyboard (for GNS2 Remote)

1 x S.G. Brown 1000S gyrocompass

1 x Uninteruptable Power Supply (UPS)

2 x Epson LX300 Printers

2 x SkyFix Spot Whip Antennae

1 x SkyFix Spot Antenna 90962/3/1

2 x Trimble 4000DS GPS Receivers

2 x SkyFix Spot Antennae

2 x Tracs Bricks

2 x Tracs Multiplexer

2 x UHF Antennae

1 x Marine Sextant

Pacific Sentinel and Pacific Conqueror

1 x Tracs Geopod

1 x Fluxgate compasses

1 x Tracs Box and Interface Box

1 x Compaq computer, inc. monitor, keyboard (GNS2 Tug Display)

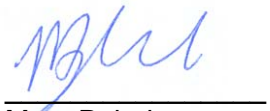
1 x Uninteruptable Power Supply (UPS)

plus all associated software (GNS 2 version 2.32, MultiFix 3 version 1.24) c/w cables, consumables, software dongles etc.

9. DISTRIBUTION

Copies of this report have been distributed as follows:

OMV Australia Pty Ltd	: 3 copies
Attn: Mr Ron King	: 1 electronic copy
Thales GeoSolutions (Australasia) Limited	: 1 copy



Marc Dybala
Surveyor

Anthony Kerr
Survey Manager

APPENDIX A

FINAL DIFFERENTIAL GPS DRILLSTEM POSITION AT BALEEN-3

THALES **Thales GeoSolutions Group Ltd**

FINAL POSITION FIX – DIFFERENTIAL GPS

Job Description: Baleen-3
Job Number: 3383A3
Thales Surveyor: M.Dybala
Client: OMV
Client Representative: W.Edmonds

Sampling started: 25 May 2002 07:07:16
Sampling end: 25 May 2002 08:07:10

Ocean Bounty
Intended datum location
Datum: AGD 1966
Latitude: 38°00'21.038"S Longitude: 148°26'34.438"E
Projection: AMG Zone 55
Easting: 626676.40 m Northing: 5792539.70 m

Final Antenna Position (T1 Thales UKOOA):
Sample size: 720 fixes used out of a total of 720.

Antenna offset
X: 0.28m Y: 33.90m Z: 0.00m
Range: 33.90m Rel Brg from datum to antenna: 0.5°

Datum: WGS 84
Latitude: 38°00'15.687"S Longitude: 148°26'37.576"E Spheroidal Ht: 43.73m
Datum: AGD 1966
Latitude: 38°00'21.214"S Longitude: 148°26'33.055"E Spheroidal Ht: 50.59m
Projection: AMG Zone 55
Easting: 626642.59 Northing: 5792534.81 Spheroidal Ht: 50.59m

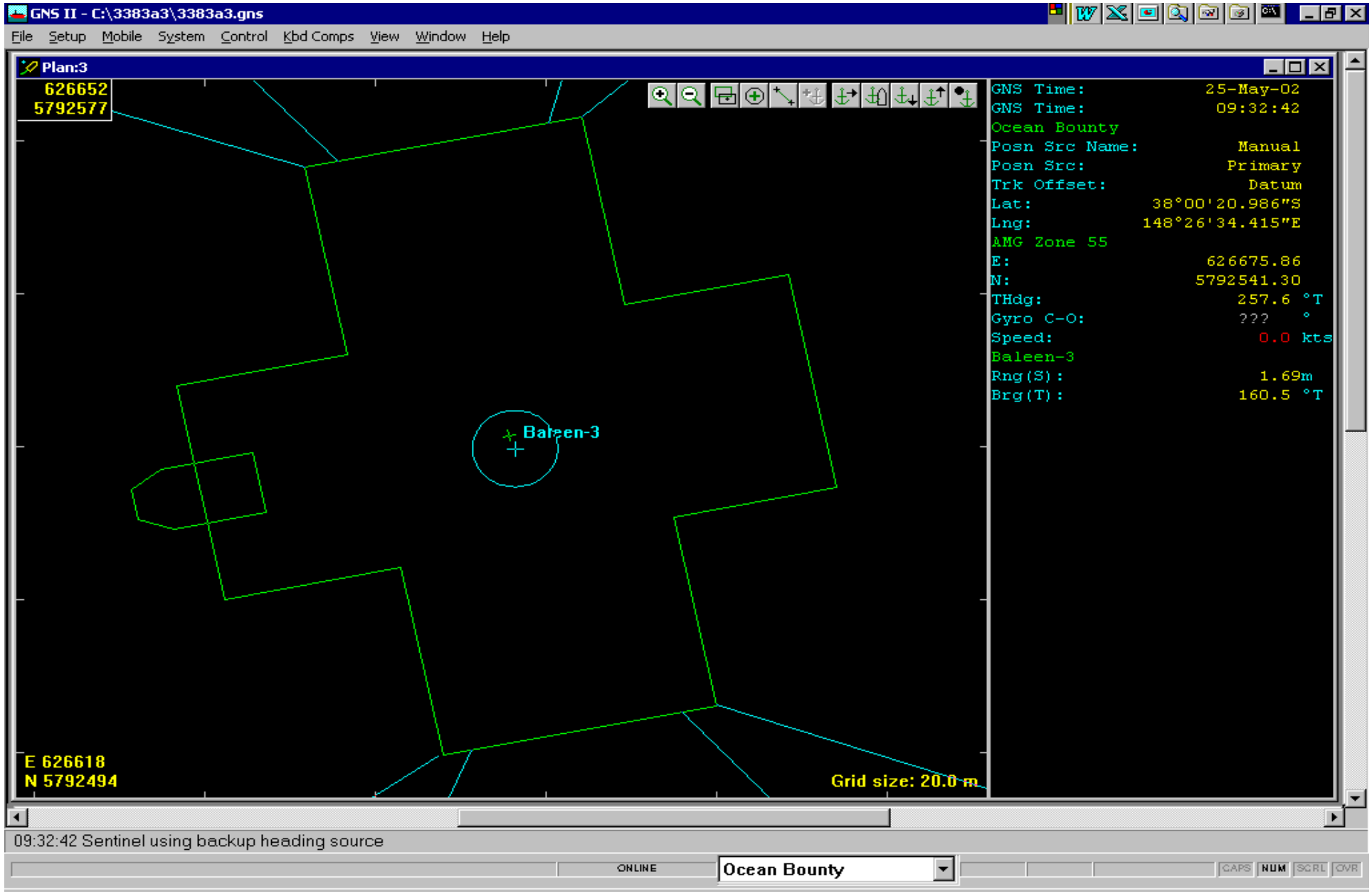
Standard deviations
Long or E: 0.30m
Lat or N: 0.26m
Height: 0.66m
Position: 0.40m

Final Datum Position
Datum: AGD 1966
Latitude: 38°00'20.986"S Longitude: 148°26'34.415"E

Projection: AMG Zone 55
Easting: 626675.86 m Northing: 5792541.30 m

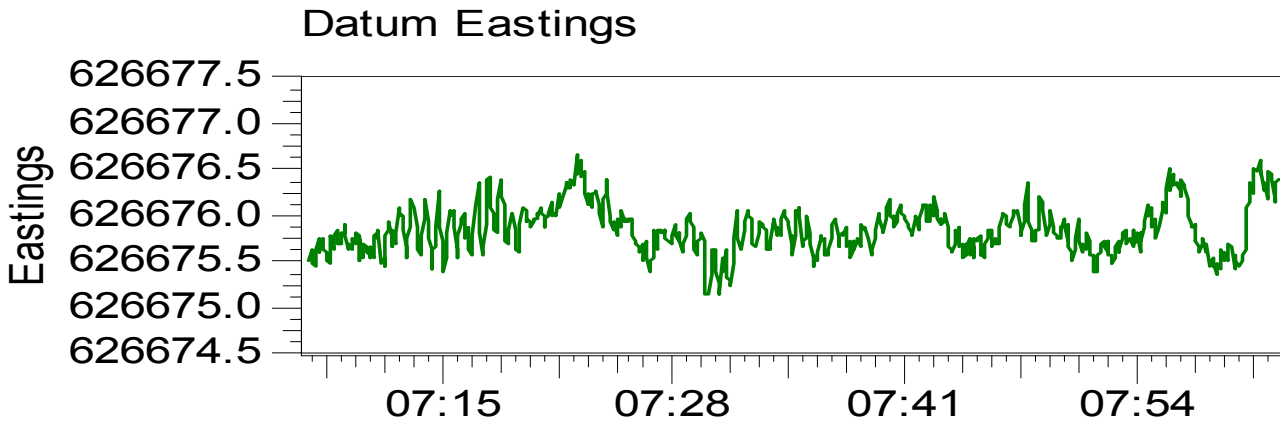
Mean corrected heading: 257.6°T
SD heading: 0.1°T
Intended heading: 257.0°T
Difference from intended: 0.6°
Gyro C-O: 2.2°
Convergence: -0.89°

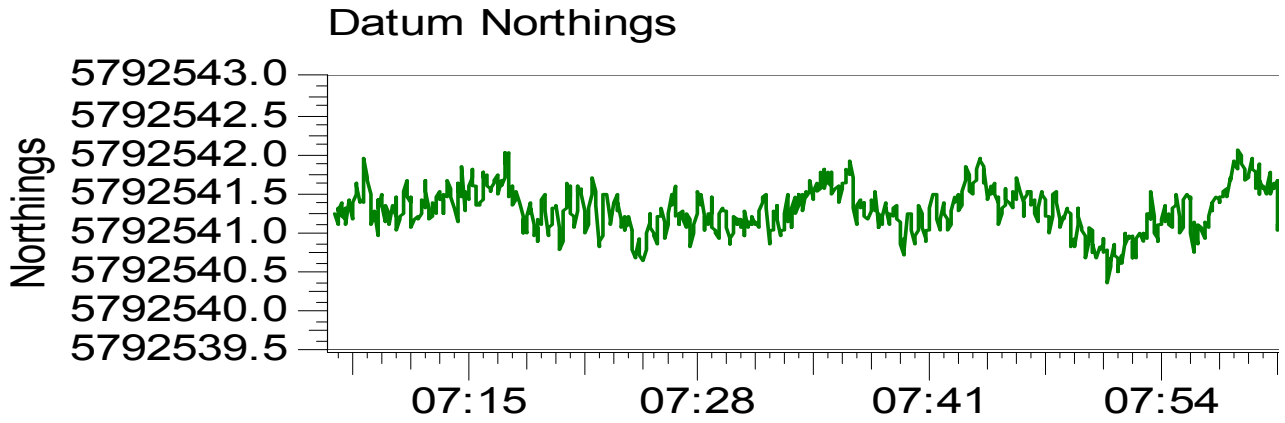
Final Datum Position is 1.69m on a bearing of 340.5°T (341.4°G) from the intended location.

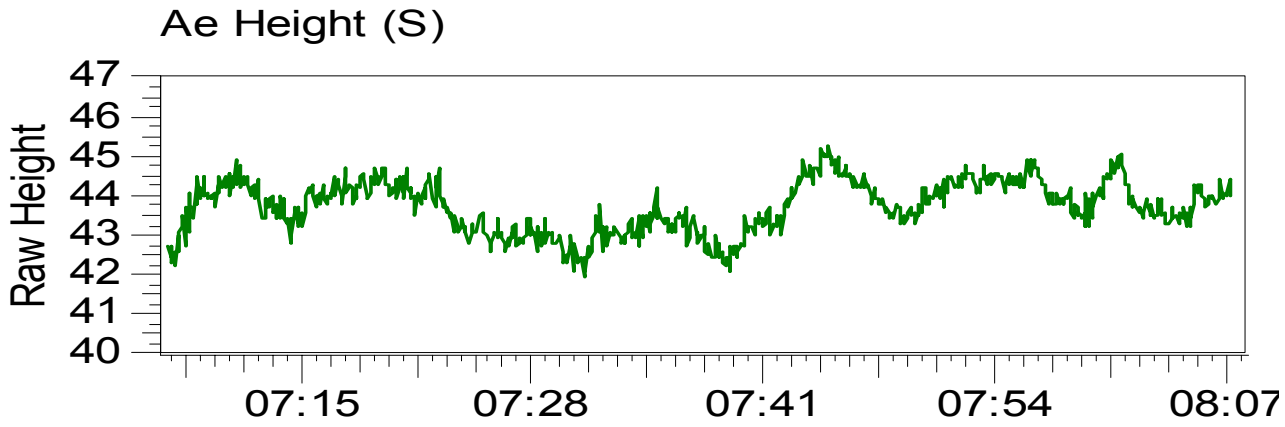

GNS II - C:\3383a3\3383a3.gns
File Setup Mobile System Control Kbd Comps View Window Help
Plan:3
626652
5792577
Baleen-3
E 626618
N 5792494
Grid size: 20.0 m
GNS Time: 25-May-02
GNS Time: 09:32:42
Ocean Bounty
Posn Src Name: Manual
Posn Src: Primary
Trk Offset: Datum
Lat: 38°00'20.986"S
Lng: 148°26'34.415"E
AMG Zone 55
E: 626675.86
N: 5792541.30
THdg: 257.6 °T
Gyro C-O: ??? °
Speed: 0.0 kts
Baleen-3
Rng(S): 1.69m
Brg(T): 160.5 °T
09:32:42 Sentinel using backup heading source
ONLINE
Ocean Bounty
CAPS NUM SCRL OVR

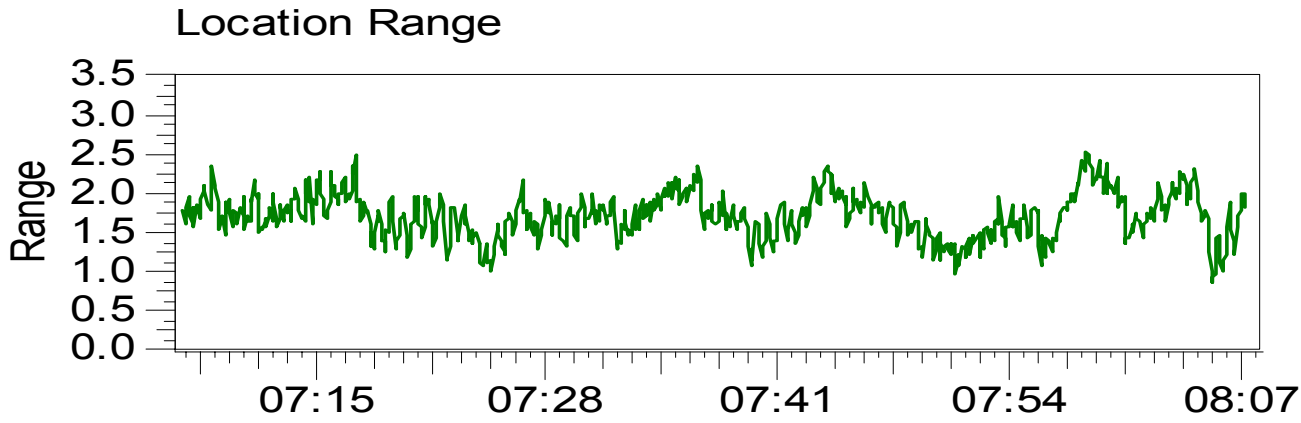
APPENDIX B

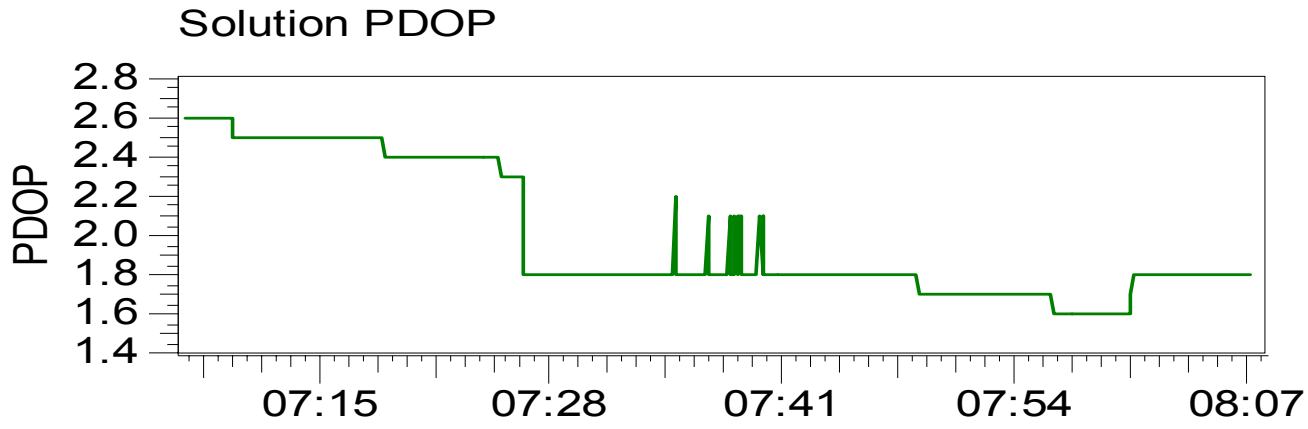
GNS2 STATIC DIFFERENTIAL GPS FIX GRAPHS

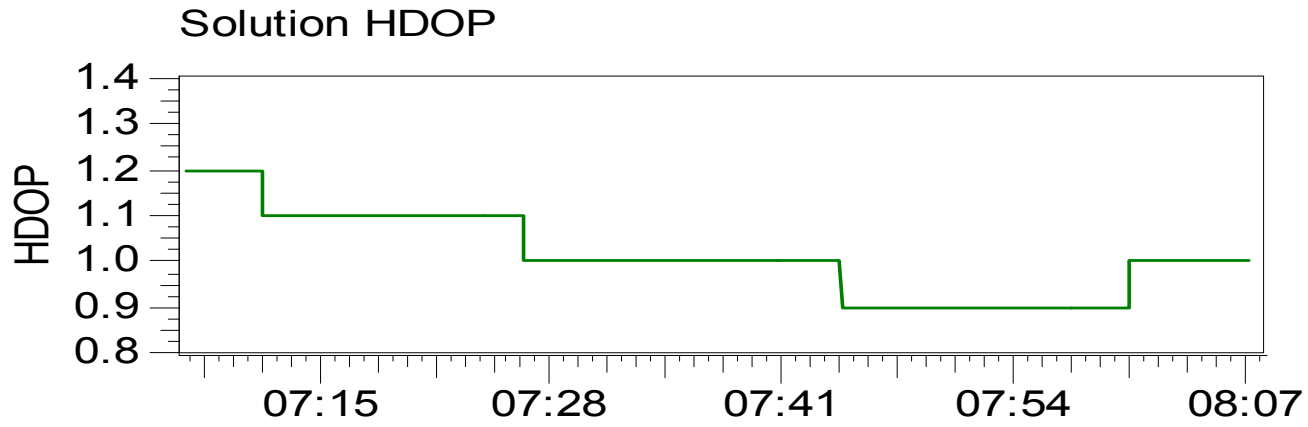

Datum Eastings
Eastings
626677.5
626677.0
626676.5
626676.0
626675.5
626675.0
626674.5
07:15
07:28
07:41
07:54

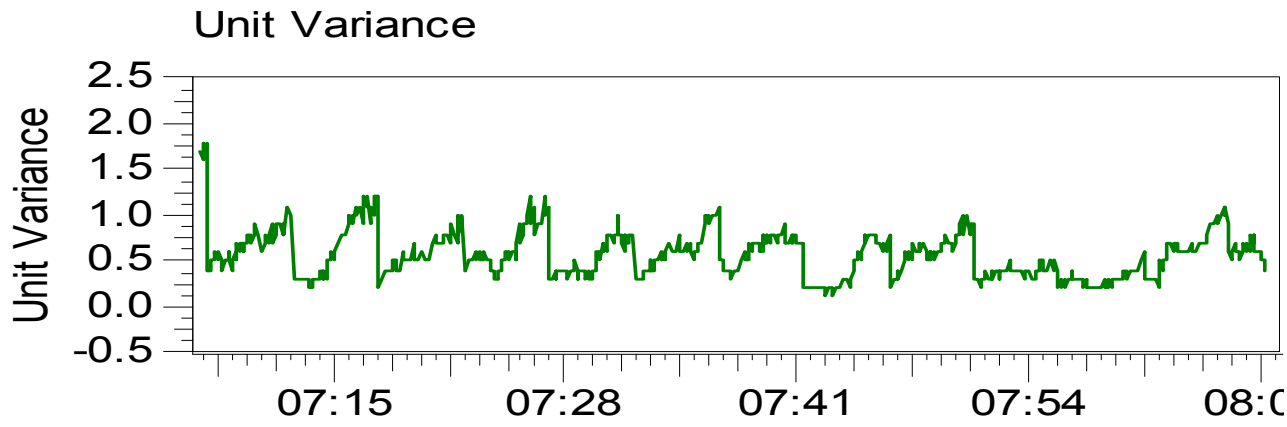

Datum Northings
Northings
5792543.0
5792542.5
5792542.0
5792541.5
5792541.0
5792540.5
5792540.0
5792539.5
07:15
07:28
07:41
07:54

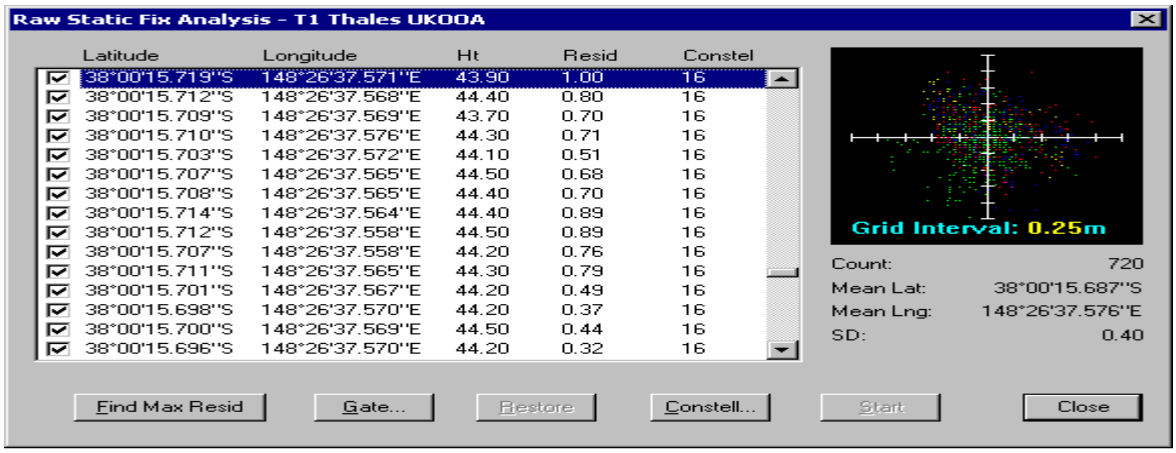

Ae Height (S)
Raw Height
47
46
45
44
43
42
41
40
07:15
07:28
07:41
07:54
08:07


Location Range
Range
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
07:15
07:28
07:41
07:54
08:07


Solution PDOP
PDOP
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
07:15
07:28
07:41
07:54
08:07

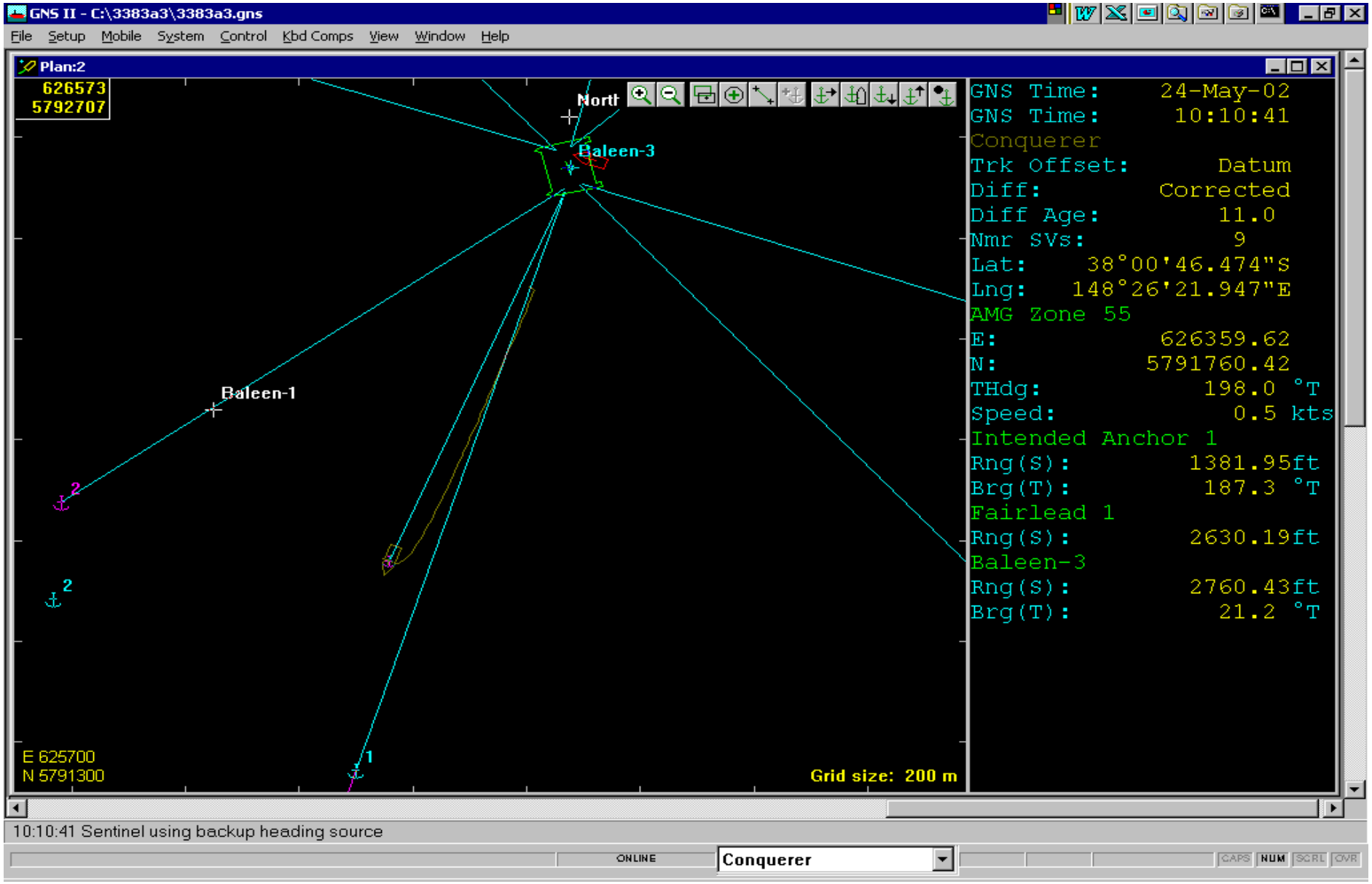

Solution HDOP
HDOP
1.4
1.3
1.2
1.1
1.0
0.9
0.8
07:15
07:28
07:41
07:54
08:07


Unit Variance
Unit Variance
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
07:15
07:28
07:41
07:54

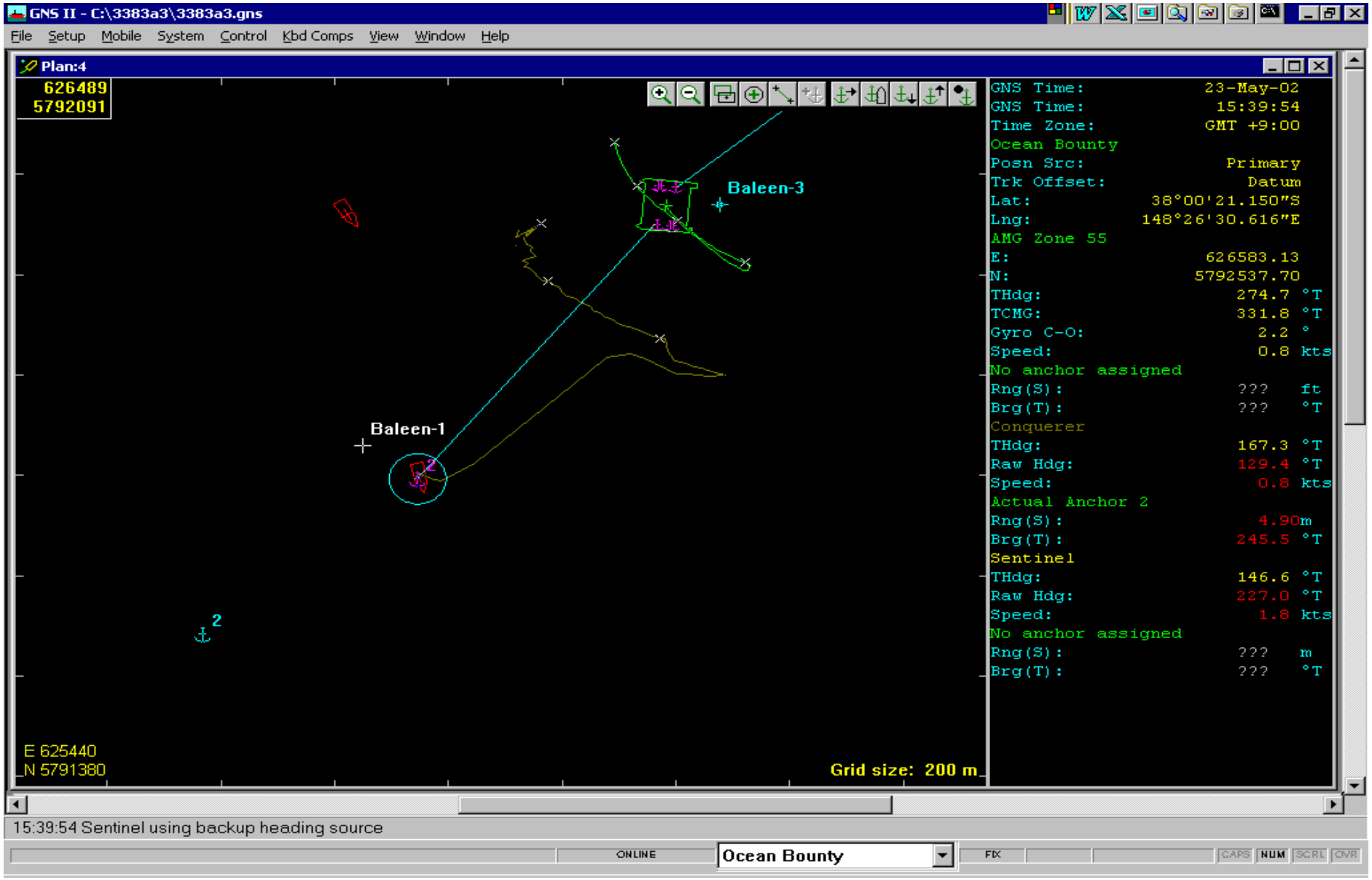

Raw Static Fix Analysis - T1 Thales UKOOA
Latitude Longitude Ht Resid Constel
38°00'15.719"S 148°26'37.571"E 43.90 1.00 16
38°00'15.712"S 148°26'37.568"E 44.40 0.80 16
38°00'15.709"S 148°26'37.569"E 43.70 0.70 16
38°00'15.710"S 148°26'37.576"E 44.30 0.71 16
38°00'15.703"S 148°26'37.572"E 44.10 0.51 16
38°00'15.707"S 148°26'37.565"E 44.50 0.68 16
38°00'15.708"S 148°26'37.565"E 44.40 0.70 16
38°00'15.714"S 148°26'37.564"E 44.40 0.89 16
38°00'15.712"S 148°26'37.558"E 44.50 0.89 16
38°00'15.707"S 148°26'37.558"E 44.20 0.76 16
38°00'15.711"S 148°26'37.565"E 44.30 0.79 16
38°00'15.701"S 148°26'37.567"E 44.20 0.49 16
38°00'15.698"S 148°26'37.570"E 44.20 0.37 16
38°00'15.700"S 148°26'37.569"E 44.50 0.44 16
38°00'15.696"S 148°26'37.570"E 44.20 0.32 16
Grid Interval: 0.25m
Count: 720
Mean Lat: 38°00'15.687"S
Mean Lng: 148°26'37.576"E
SD: 0.40
Find Max Resid
Gate...
Restore
Constell...
Start
Close

APPENDIX C

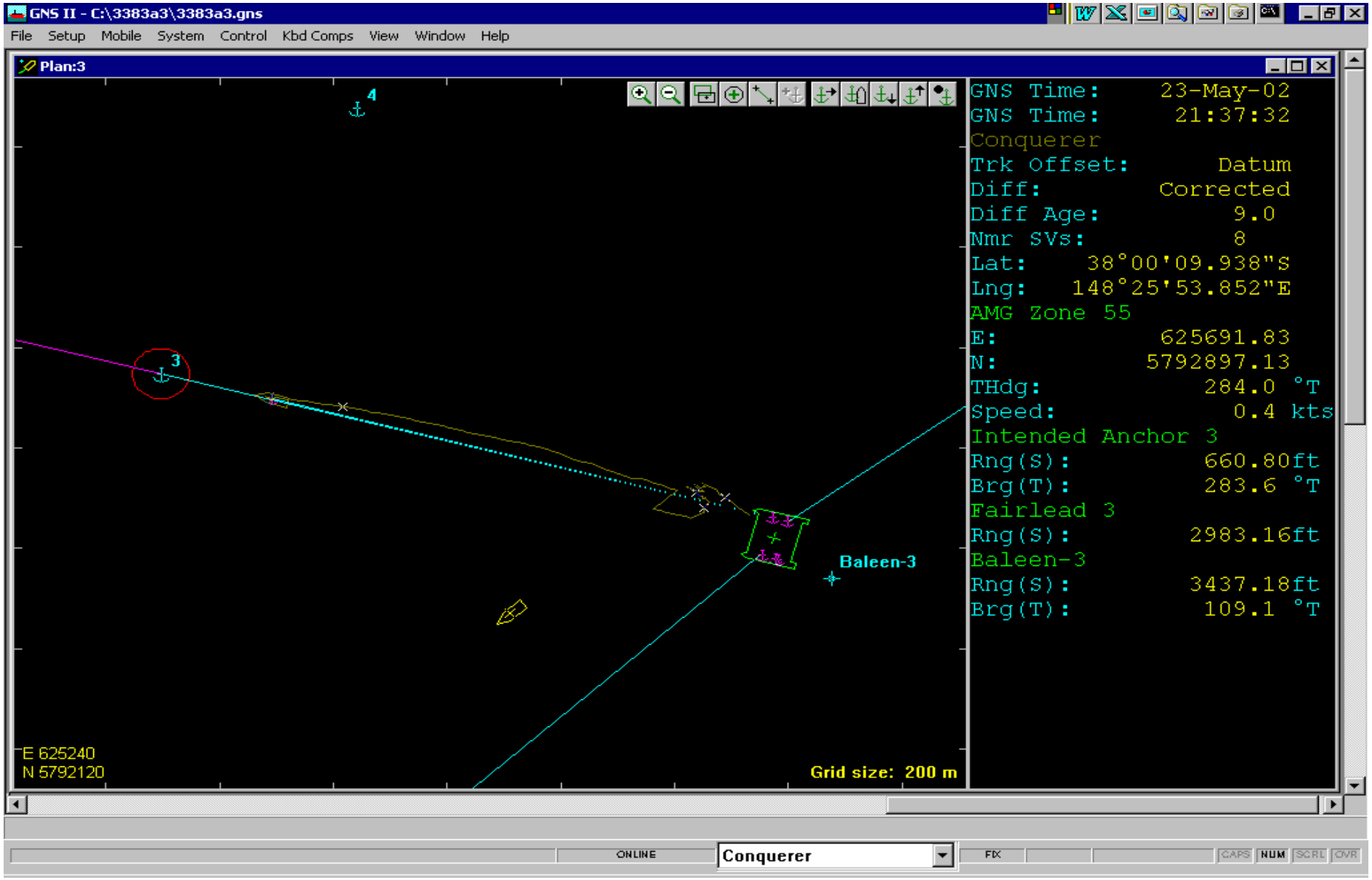
RUN LINE GRAPHICS OF ANCHOR HANDLING VESSELS



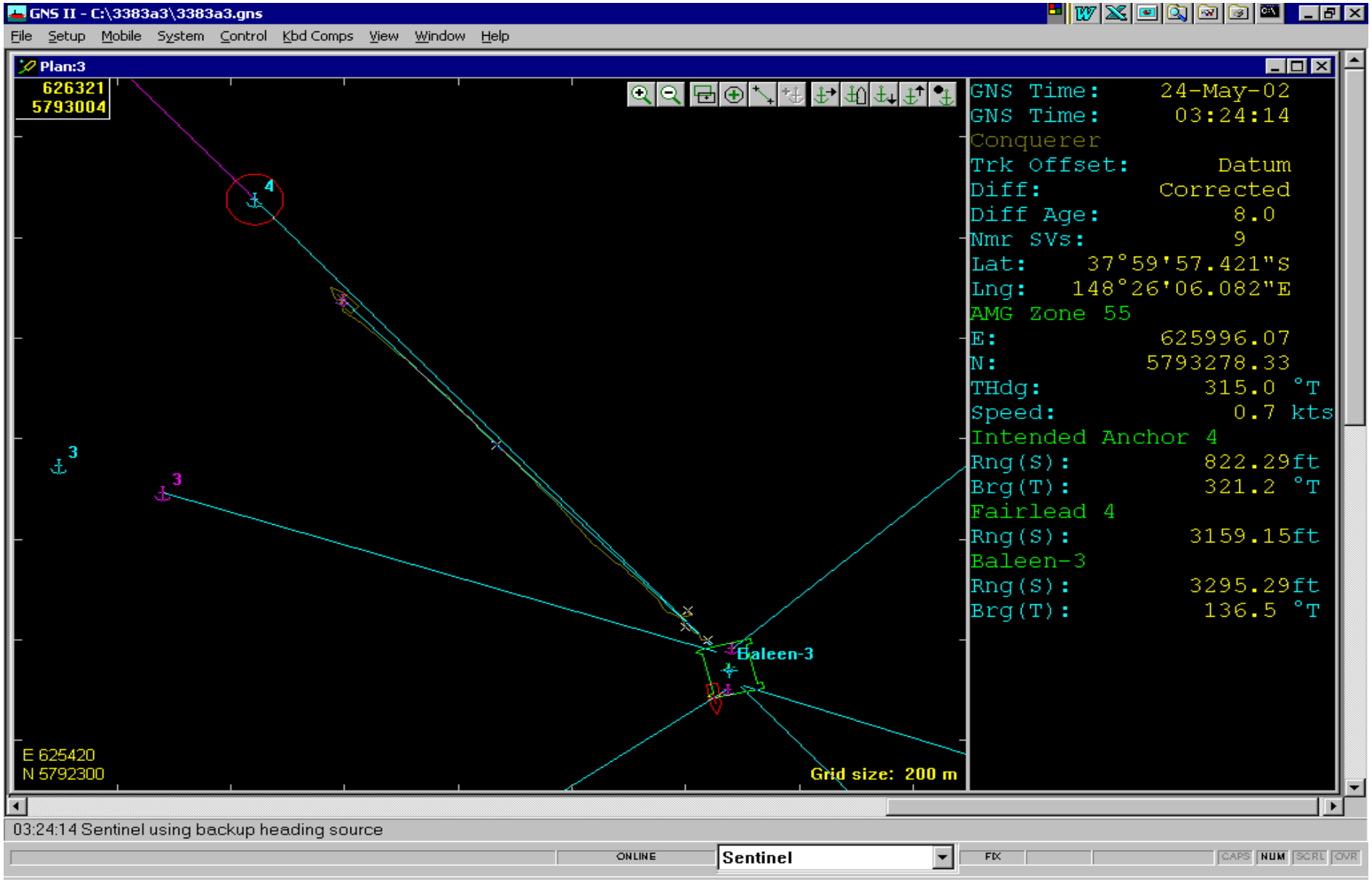
Anchor 1 – Pacific Conqueror



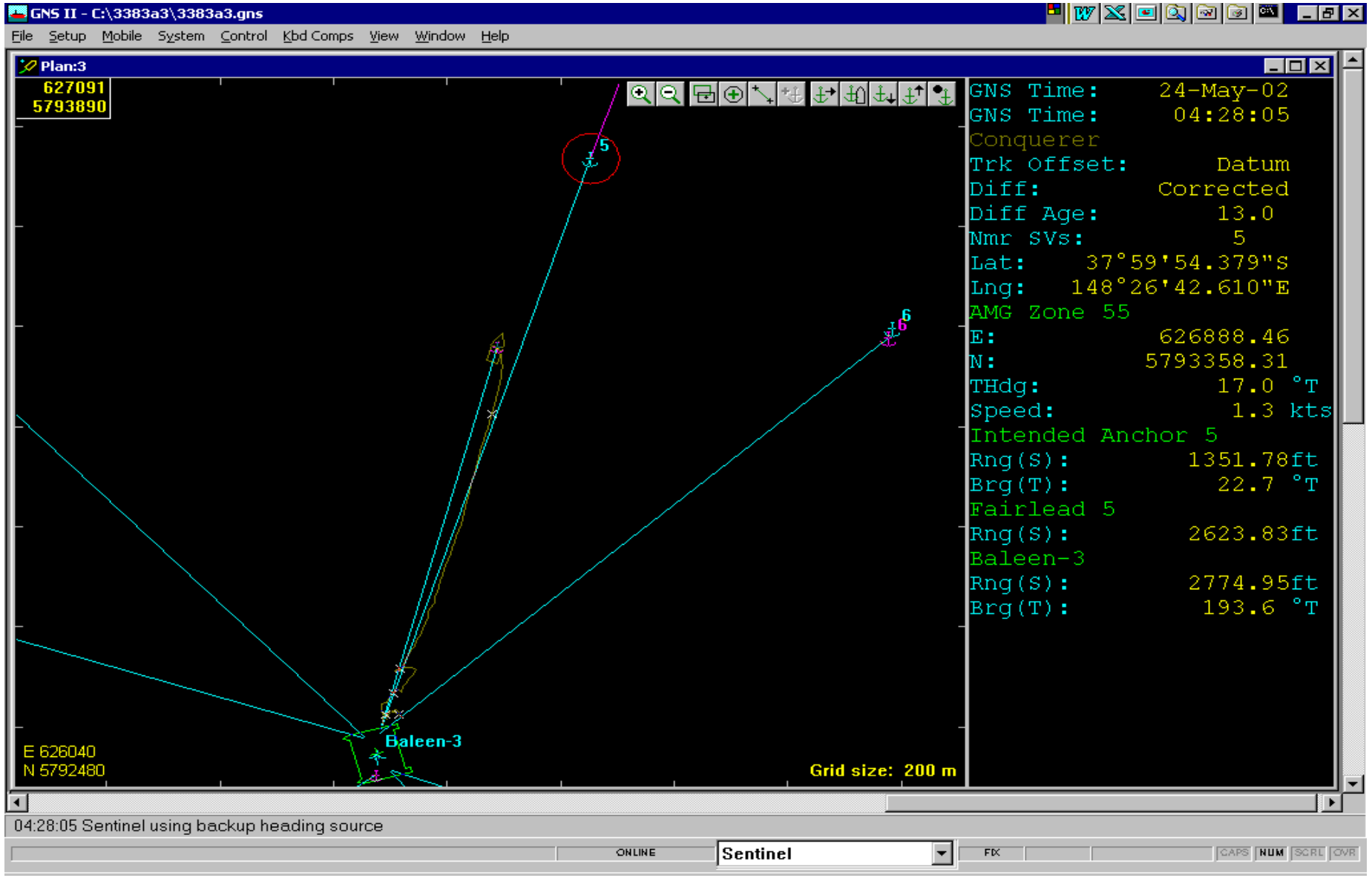
Anchor 2 – Pacific Conqueror



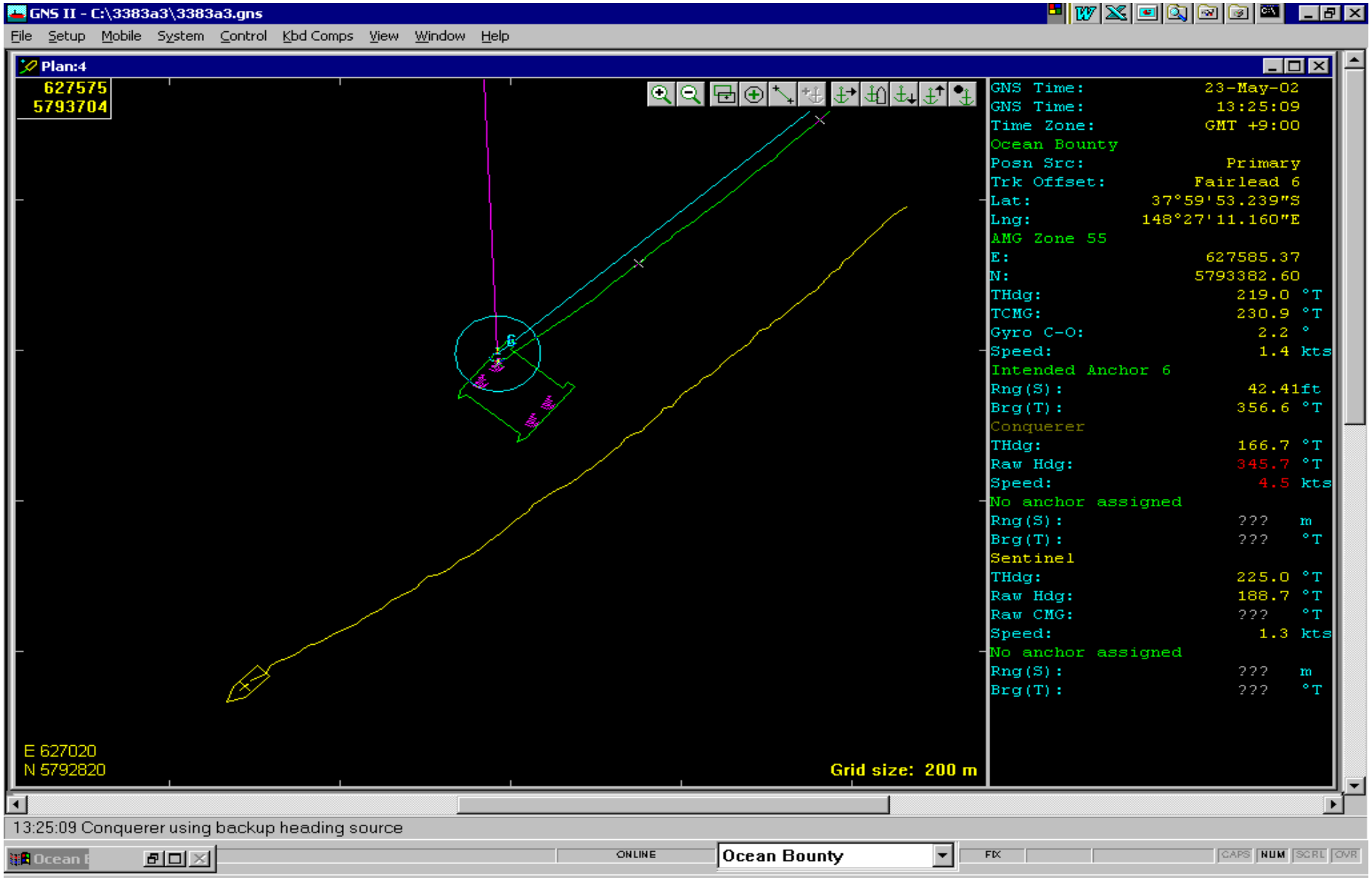
Anchor 3 – Pacific Conqueror



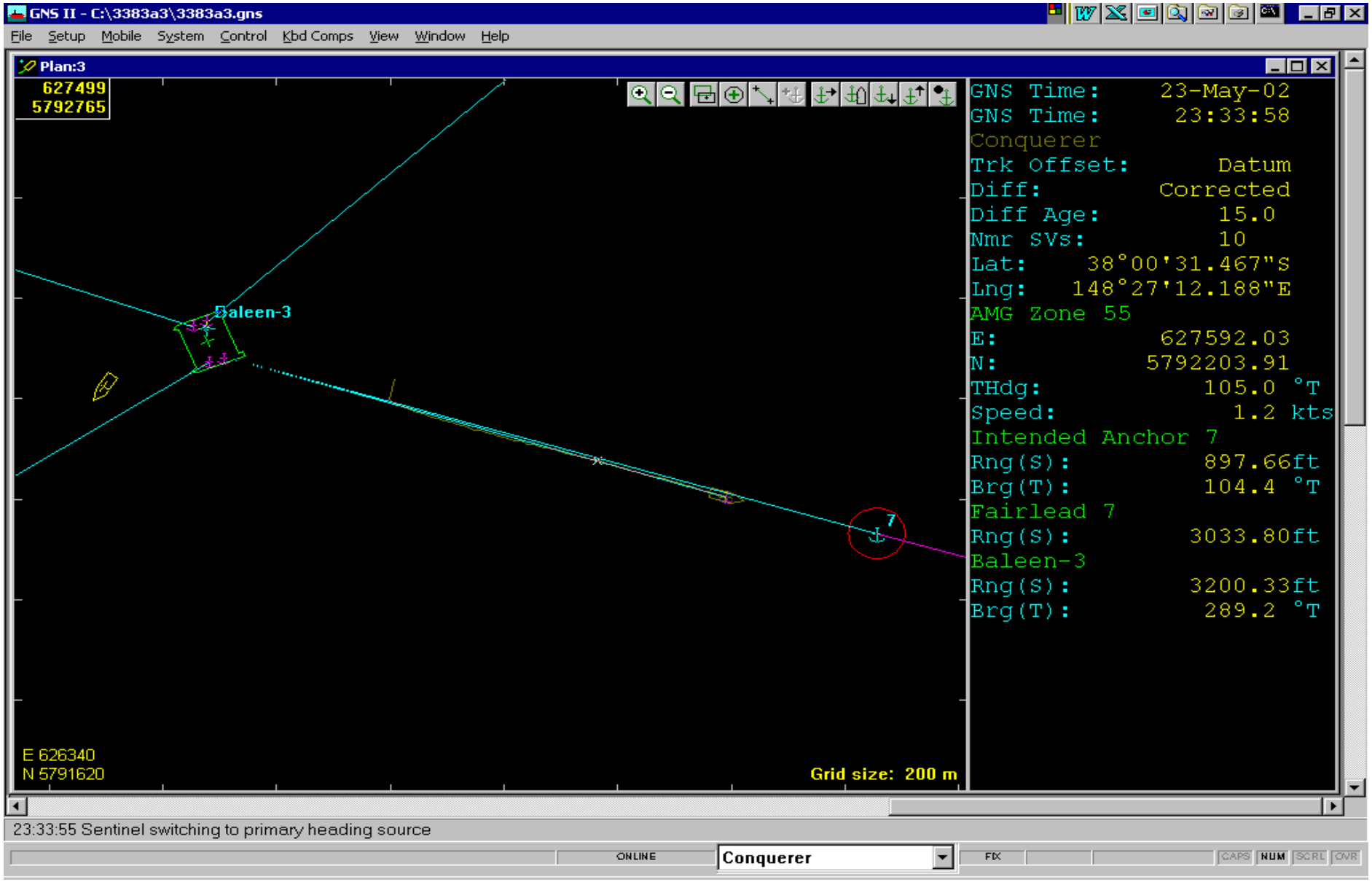
Anchor 4 – Pacific Conqueror



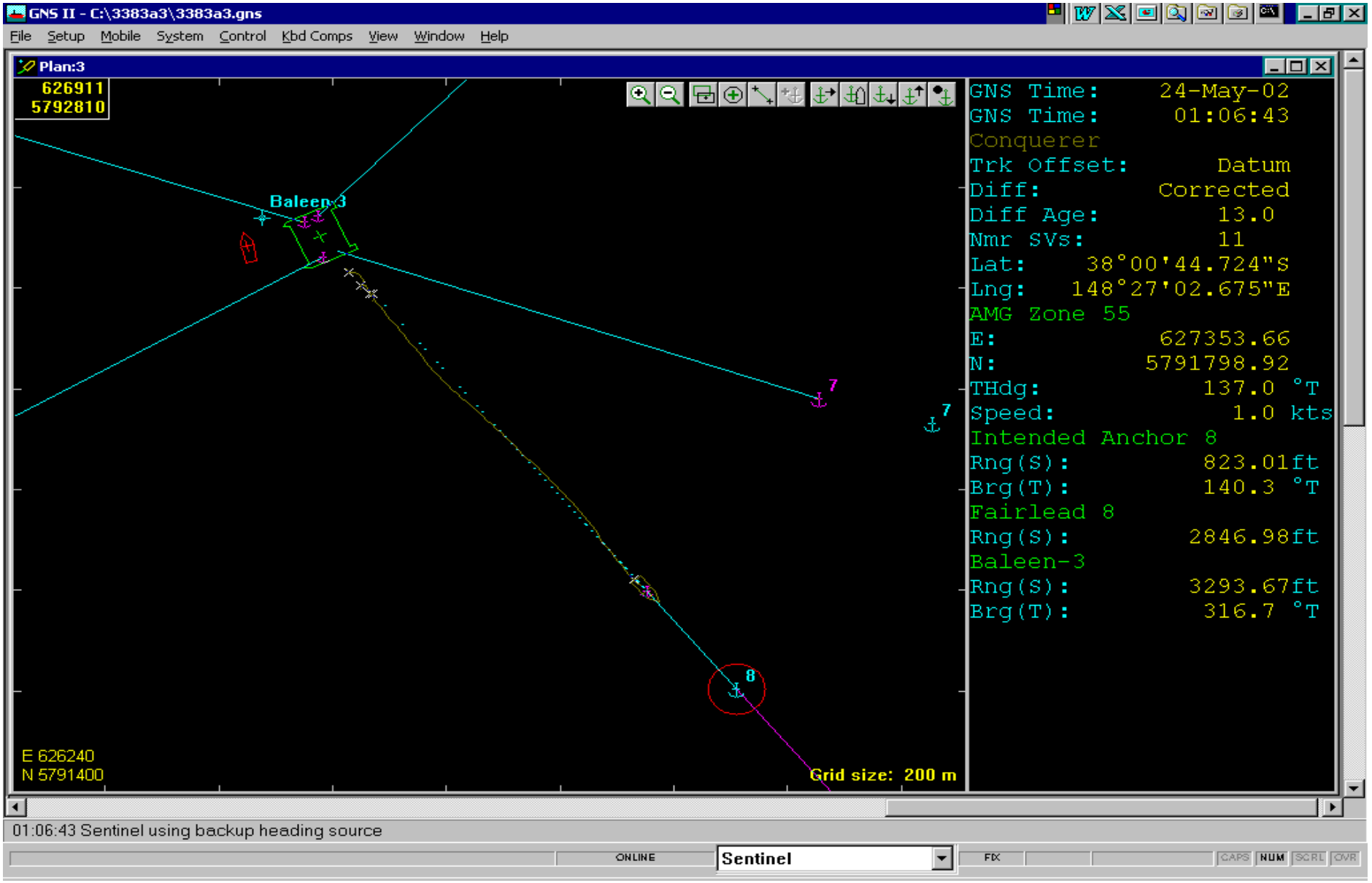
Anchor 5 – Pacific Conqueror



Anchor 6 – Ocean Bounty



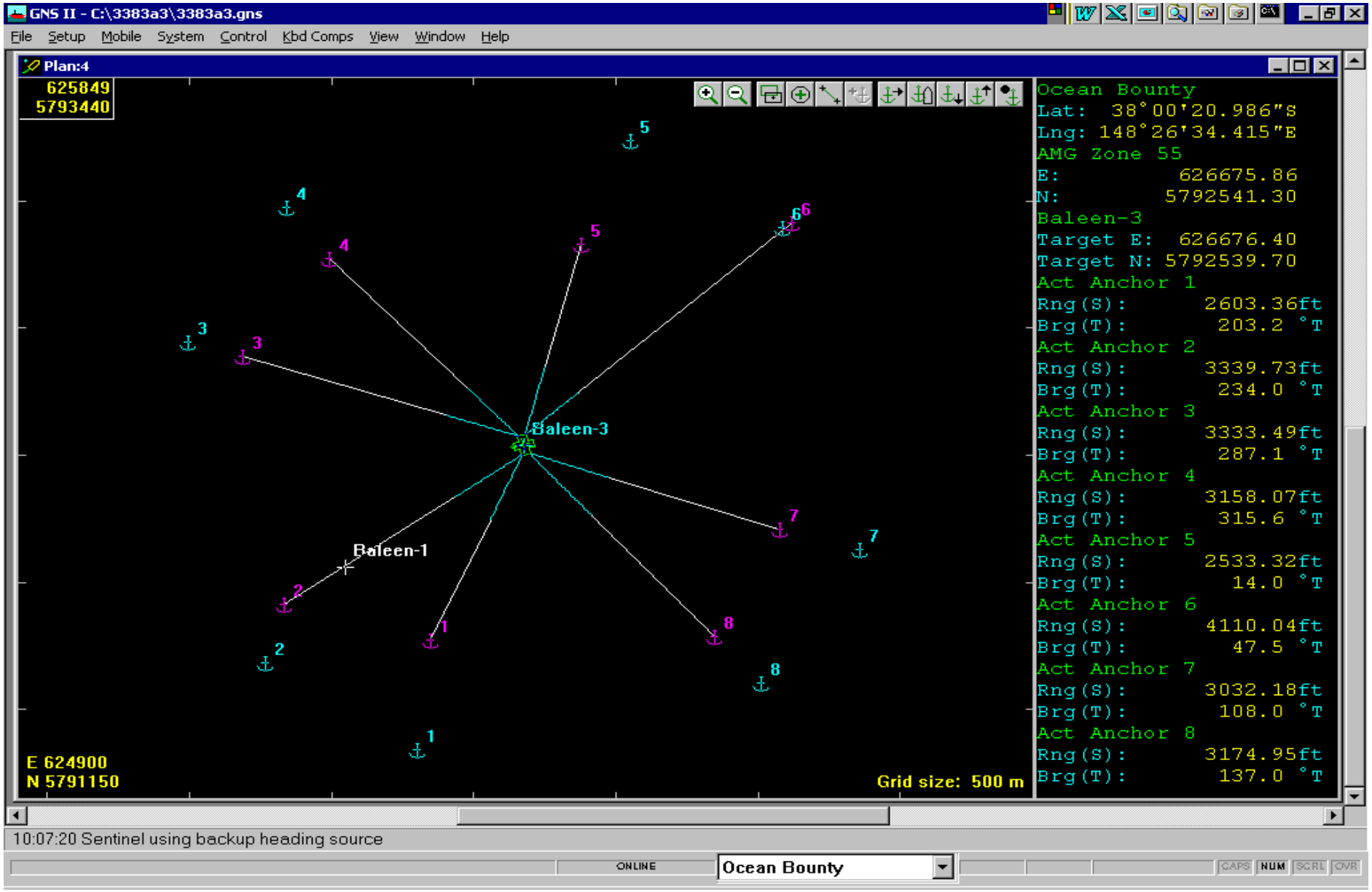
Anchor 7– Pacific Conqueror



Anchor 8 - Pacific Conqueror

APPENDIX D

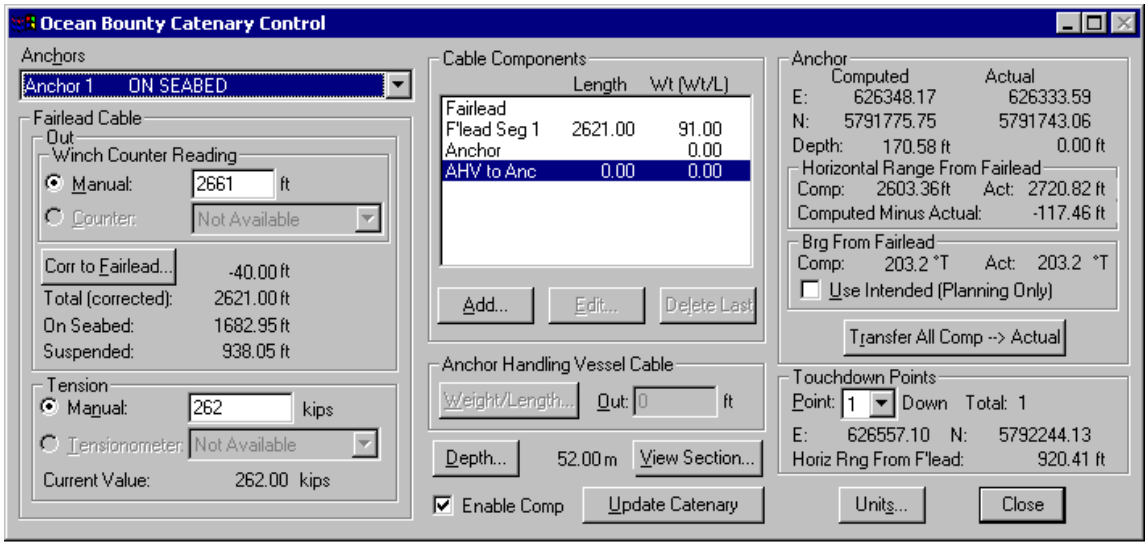
OCEAN BOUNTY ANCHOR PATTERN DETAILS AT BALEEN-3

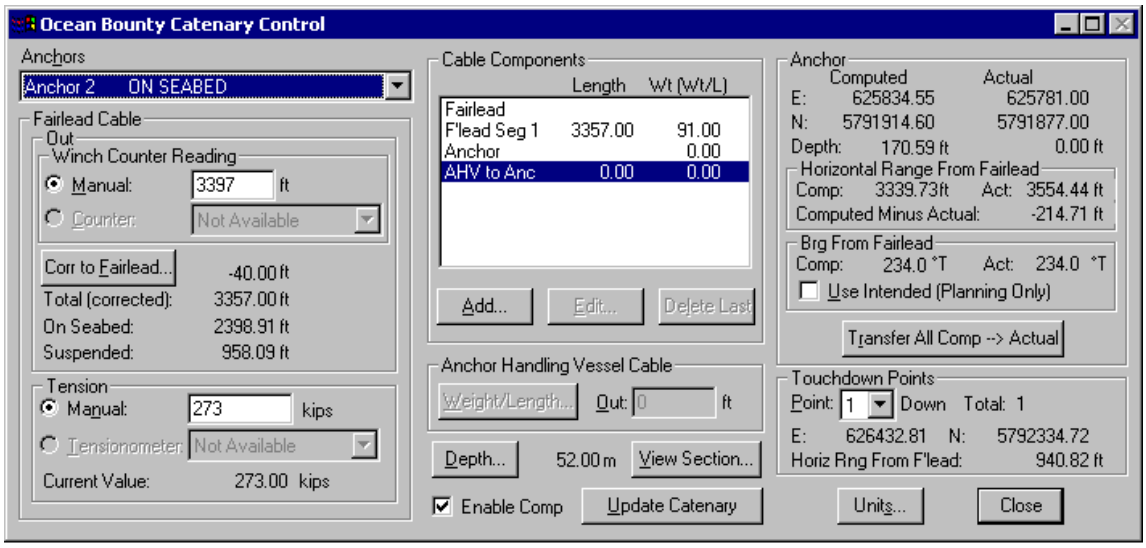


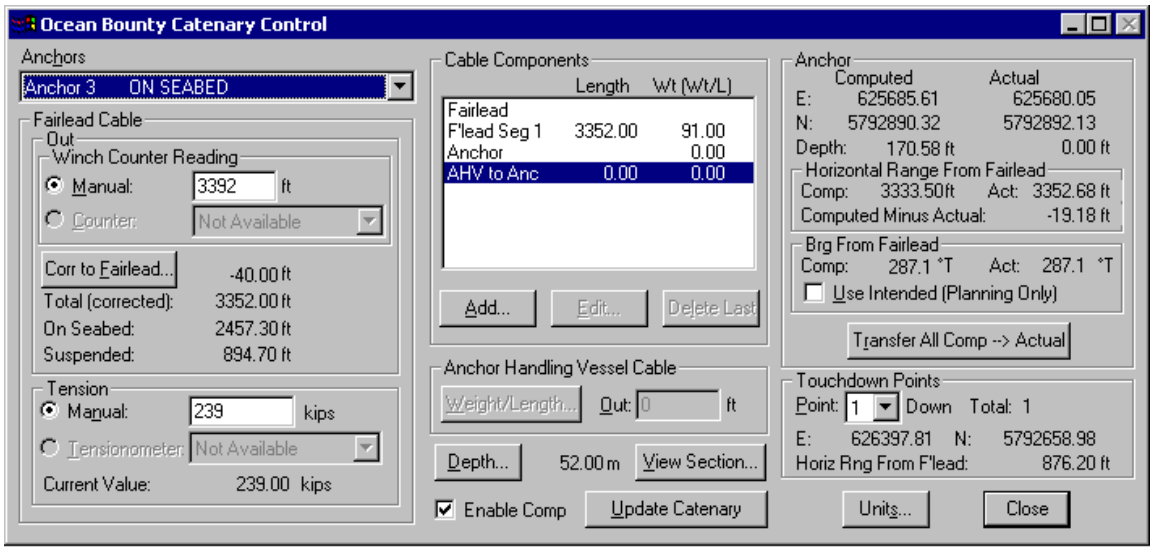
Anchor Pattern At Baleen-3

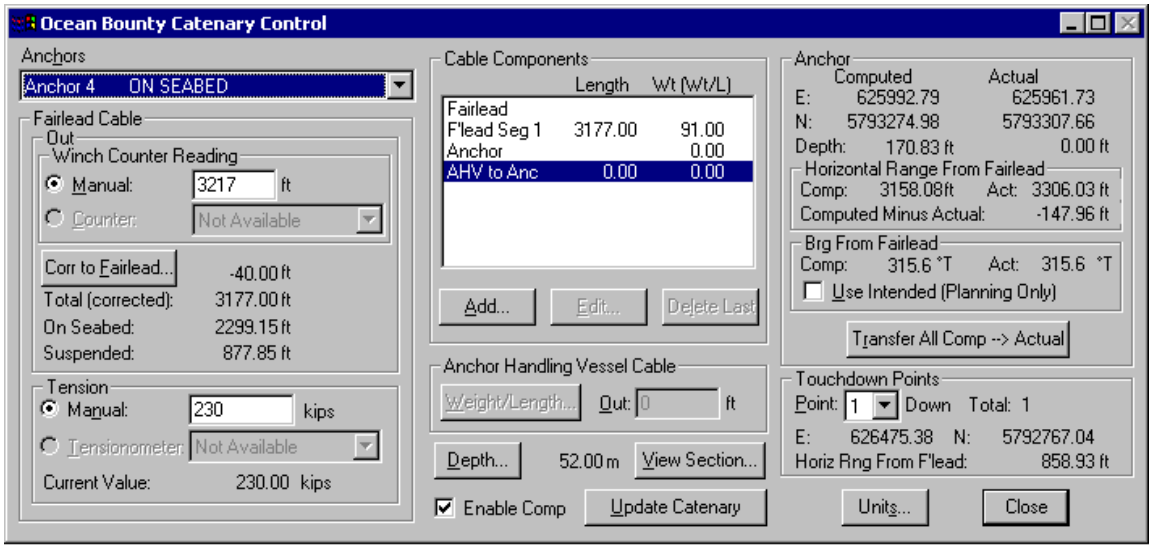
APPENDIX E

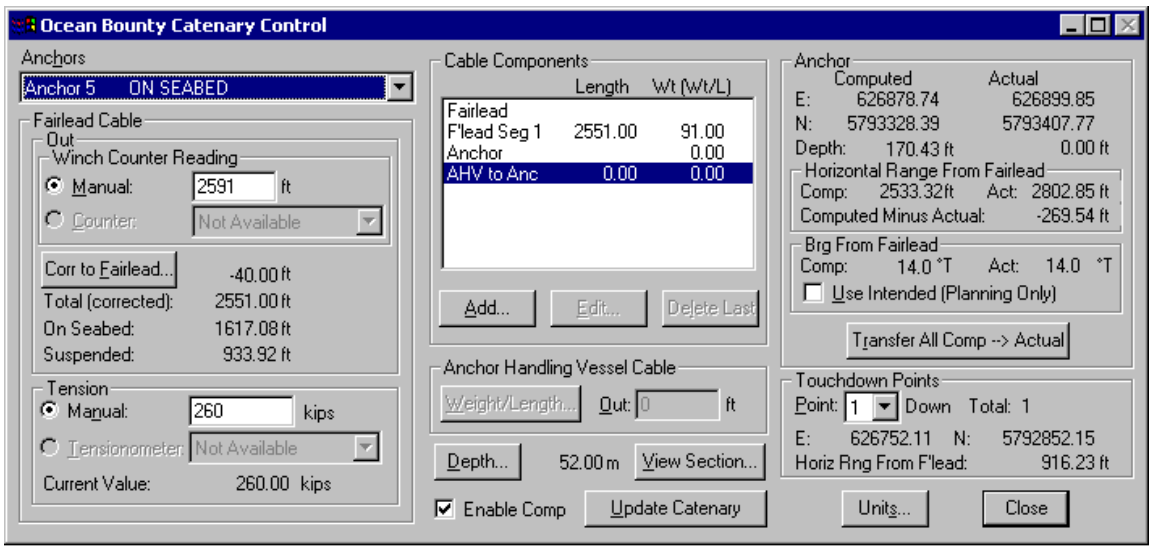
OCEAN BOUNTY ANCHOR CATENARY CALCULATIONS

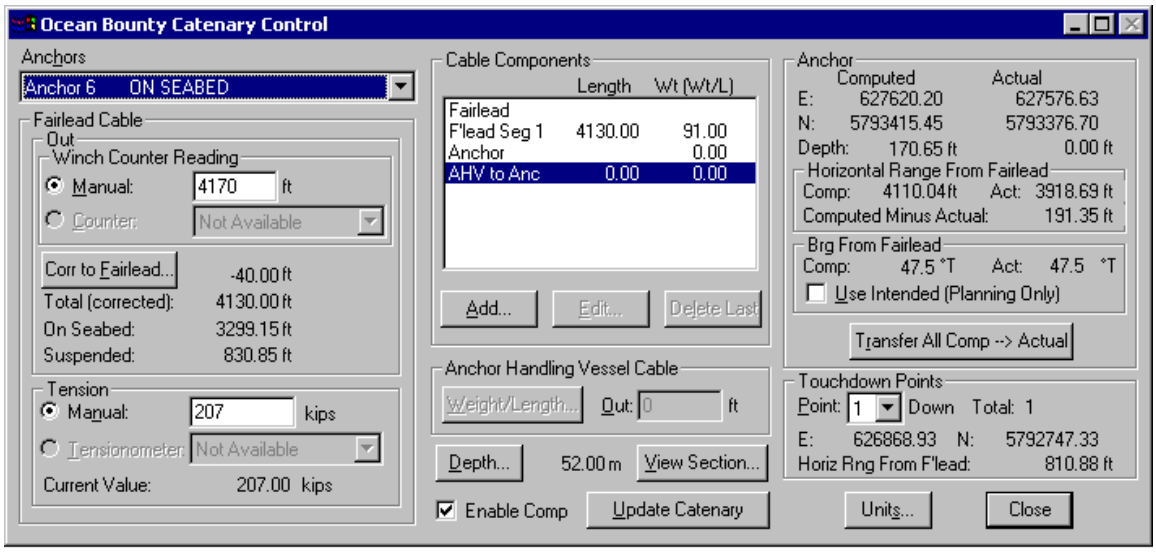

Ocean Bounty Catenary Control
Anchors
Anchor 1 ON SEABED
Fairlead Cable
Out
Winch Counter Reading
Manual: 2661 ft
Counter: Not Available
Corr to Fairlead... -40.00 ft
Total (corrected): 2621.00 ft
On Seabed: 1682.95 ft
Suspended: 938.05 ft
Tension
Manual: 262 kips
Tensionometer: Not Available
Current Value: 262.00 kips
Cable Components
Length Wt (Wt/L)
Fairlead
F'lead Seg 1 2621.00 91.00
Anchor 0.00
AHV to Anc 0.00 0.00
Add... Edit... Delete Last
Anchor Handling Vessel Cable
Weight/Length... Out: 0 ft
Depth... 52.00 m View Section...
Enable Comp Update Catenary
Anchor
Computed Actual
E: 626348.17 626333.59
N: 5791775.75 5791743.06
Depth: 170.58 ft 0.00 ft
Horizontal Range From Fairlead
Comp: 2603.36ft Act: 2720.82 ft
Computed Minus Actual: -117.46 ft
Brg From Fairlead
Comp: 203.2 °T Act: 203.2 °T
Use Intended (Planning Only)
Transfer All Comp --> Actual
Touchdown Points
Point: 1 Down Total: 1
E: 626557.10 N: 5792244.13
Horiz Rng From F'lead: 920.41 ft
Units... Close

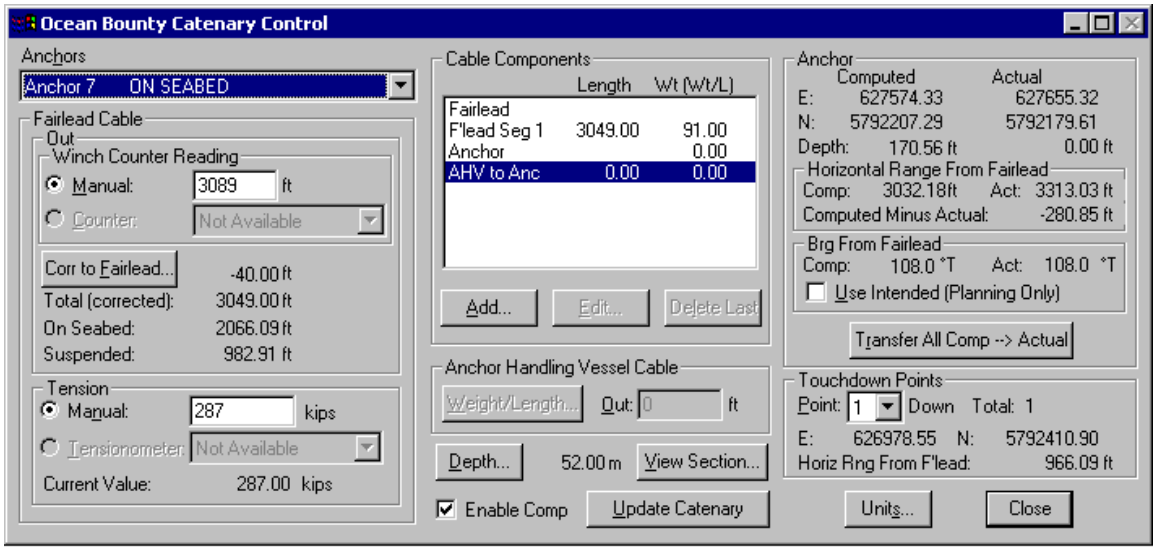

Ocean Bounty Catenary Control
Anchors
Anchor 2 ON SEABED
Fairlead Cable
Out
Winch Counter Reading
Manual: 3397 ft
Counter: Not Available
Corr to Fairlead... -40.00 ft
Total (corrected): 3357.00 ft
On Seabed: 2398.91 ft
Suspended: 958.09 ft
Tension
Manual: 273 kips
Tensionometer: Not Available
Current Value: 273.00 kips
Cable Components
Length Wt (Wt/L)
Fairlead
F'lead Seg 1 3357.00 91.00
Anchor 0.00
AHV to Anc 0.00 0.00
Add... Edit... Delete Last
Anchor Handling Vessel Cable
Weight/Length... Out: 0 ft
Depth... 52.00 m View Section...
Enable Comp Update Catenary
Anchor
Computed Actual
E: 625834.55 625781.00
N: 5791914.60 5791877.00
Depth: 170.59 ft 0.00 ft
Horizontal Range From Fairlead
Comp: 3339.73ft Act: 3554.44 ft
Computed Minus Actual: -214.71 ft
Brg From Fairlead
Comp: 234.0 °T Act: 234.0 °T
Use Intended (Planning Only)
Transfer All Comp --> Actual
Touchdown Points
Point: 1 Down Total: 1
E: 626432.81 N: 5792334.72
Horiz Rng From F'lead: 940.82 ft
Units... Close

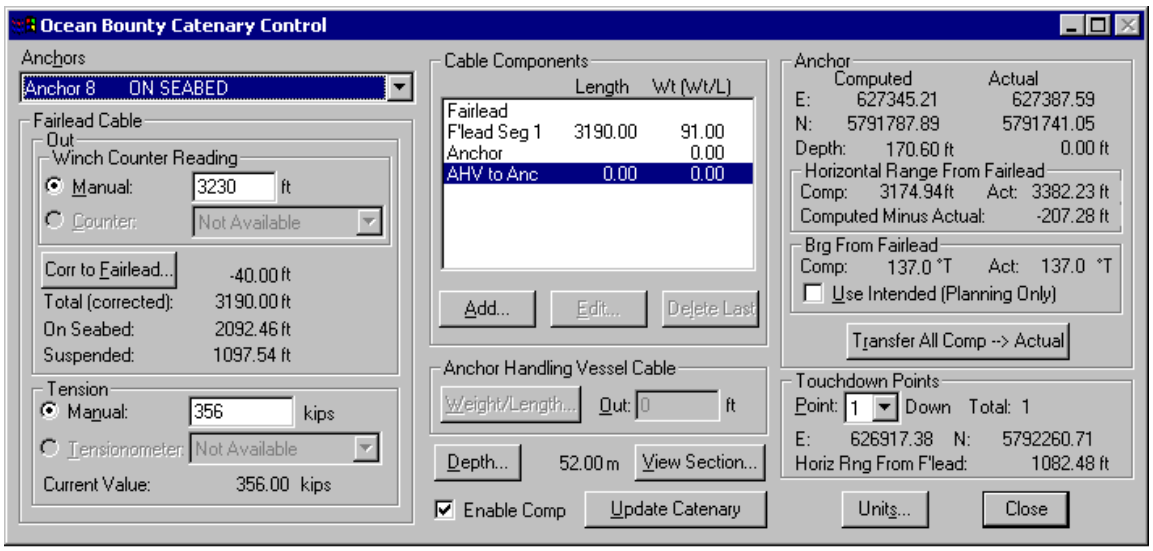

Ocean Bounty Catenary Control
Anchors
Anchor 3 ON SEABED
Fairlead Cable
Out
Winch Counter Reading
Manual: 3392 ft
Counter: Not Available
Corr to Fairlead... -40.00 ft
Total (corrected): 3352.00 ft
On Seabed: 2457.30 ft
Suspended: 894.70 ft
Tension
Manual: 239 kips
Tensionometer: Not Available
Current Value: 239.00 kips
Cable Components
Length Wt (Wt/L)
Fairlead
F'lead Seg 1 3352.00 91.00
Anchor 0.00
AHV to Anc 0.00 0.00
Add... Edit... Delete Last
Anchor Handling Vessel Cable
Weight/Length... Out: 0 ft
Depth... 52.00 m View Section...
Enable Comp Update Catenary
Anchor
Computed Actual
E: 625685.61 625680.05
N: 5792890.32 5792892.13
Depth: 170.58 ft 0.00 ft
Horizontal Range From Fairlead
Comp: 3333.50ft Act: 3352.68 ft
Computed Minus Actual: -19.18 ft
Brg From Fairlead
Comp: 287.1 °T Act: 287.1 °T
Use Intended (Planning Only)
Transfer All Comp --> Actual
Touchdown Points
Point: 1 Down Total: 1
E: 626397.81 N: 5792658.98
Horiz Rng From F'lead: 876.20 ft
Units... Close


Ocean Bounty Catenary Control
Anchors
Anchor 4 ON SEABED
Fairlead Cable
Out
Winch Counter Reading
Manual: 3217 ft
Counter: Not Available
Corr to Fairlead... -40.00 ft
Total (corrected): 3177.00 ft
On Seabed: 2299.15 ft
Suspended: 877.85 ft
Tension
Manual: 230 kips
Tensionometer: Not Available
Current Value: 230.00 kips
Cable Components
Length Wt (Wt/L)
Fairlead
F'lead Seg 1 3177.00 91.00
Anchor 0.00
AHV to Anc 0.00 0.00
Add... Edit... Delete Last
Anchor Handling Vessel Cable
Weight/Length... Out: 0 ft
Depth... 52.00 m View Section...
Enable Comp Update Catenary
Anchor
Computed Actual
E: 625992.79 625961.73
N: 5793274.98 5793307.66
Depth: 170.83 ft 0.00 ft
Horizontal Range From Fairlead
Comp: 3158.08 ft Act: 3306.03 ft
Computed Minus Actual: -147.96 ft
Brg From Fairlead
Comp: 315.6 °T Act: 315.6 °T
Use Intended (Planning Only)
Transfer All Comp --> Actual
Touchdown Points
Point: 1 Down Total: 1
E: 626475.38 N: 5792767.04
Horiz Rng From F'lead: 858.93 ft
Units... Close


Ocean Bounty Catenary Control
Anchors
Anchor 5 ON SEABED
Fairlead Cable
Out
Winch Counter Reading
Manual: 2591 ft
Counter: Not Available
Corr to Fairlead... -40.00 ft
Total (corrected): 2551.00 ft
On Seabed: 1617.08 ft
Suspended: 933.92 ft
Tension
Manual: 260 kips
Tensionometer: Not Available
Current Value: 260.00 kips
Cable Components
Length Wt (Wt/L)
Fairlead
F'lead Seg 1 2551.00 91.00
Anchor 0.00
AHV to Anc 0.00 0.00
Add... Edit... Delete Last
Anchor Handling Vessel Cable
Weight/Length... Out: 0 ft
Depth... 52.00 m View Section...
Enable Comp Update Catenary
Anchor
Computed Actual
E: 626878.74 626899.85
N: 5793328.39 5793407.77
Depth: 170.43 ft 0.00 ft
Horizontal Range From Fairlead
Comp: 2533.32 ft Act: 2802.85 ft
Computed Minus Actual: -269.54 ft
Brg From Fairlead
Comp: 14.0 °T Act: 14.0 °T
Use Intended (Planning Only)
Transfer All Comp --> Actual
Touchdown Points
Point: 1 Down Total: 1
E: 626752.11 N: 5792852.15
Horiz Rng From F'lead: 916.23 ft
Units... Close


Ocean Bounty Catenary Control
Anchors
Anchor 6 ON SEABED
Fairlead Cable
Out
Winch Counter Reading
Manual: 4170 ft
Counter: Not Available
Corr to Fairlead... -40.00 ft
Total (corrected): 4130.00 ft
On Seabed: 3299.15 ft
Suspended: 830.85 ft
Tension
Manual: 207 kips
Tensionometer: Not Available
Current Value: 207.00 kips
Cable Components
Length Wt (Wt/L)
Fairlead
F'lead Seg 1 4130.00 91.00
Anchor 0.00
AHV to Anc 0.00 0.00
Add... Edit... Delete Last
Anchor Handling Vessel Cable
Weight/Length... Out: 0 ft
Depth... 52.00 m View Section...
Enable Comp Update Catenary
Anchor
Computed Actual
E: 627620.20 627576.63
N: 5793415.45 5793376.70
Depth: 170.65 ft 0.00 ft
Horizontal Range From Fairlead
Comp: 4110.04 ft Act: 3918.69 ft
Computed Minus Actual: 191.35 ft
Brg From Fairlead
Comp: 47.5 °T Act: 47.5 °T
Use Intended (Planning Only)
Transfer All Comp --> Actual
Touchdown Points
Point: 1 Down Total: 1
E: 626868.93 N: 5792747.33
Horiz Rng From F'lead: 810.88 ft
Units... Close


Ocean Bounty Catenary Control
Anchors
Anchor 7 ON SEABED
Fairlead Cable
Out
Winch Counter Reading
Manual: 3089 ft
Counter: Not Available
Corr to Fairlead... -40.00 ft
Total (corrected): 3049.00 ft
On Seabed: 2066.09 ft
Suspended: 982.91 ft
Tension
Manual: 287 kips
Tensionometer: Not Available
Current Value: 287.00 kips
Cable Components
Length Wt (Wt/L)
Fairlead
F'lead Seg 1 3049.00 91.00
Anchor 0.00
AHV to Anc 0.00 0.00
Add... Edit... Delete Last
Anchor Handling Vessel Cable
Weight/Length... Out: 0 ft
Depth... 52.00 m View Section...
Enable Comp Update Catenary
Anchor
Computed Actual
E: 627574.33 627655.32
N: 5792207.29 5792179.61
Depth: 170.56 ft 0.00 ft
Horizontal Range From Fairlead
Comp: 3032.18 ft Act: 3313.03 ft
Computed Minus Actual: -280.85 ft
Brg From Fairlead
Comp: 108.0 °T Act: 108.0 °T
Use Intended (Planning Only)
Transfer All Comp --> Actual
Touchdown Points
Point: 1 Down Total: 1
E: 626978.55 N: 5792410.90
Horiz Rng From F'lead: 966.09 ft
Units... Close


Ocean Bounty Catenary Control
Anchors
Anchor 8 ON SEABED
Fairlead Cable
Out
Winch Counter Reading
Manual: 3230 ft
Counter: Not Available
Corr to Fairlead... -40.00 ft
Total (corrected): 3190.00 ft
On Seabed: 2092.46 ft
Suspended: 1097.54 ft
Tension
Manual: 356 kips
Tensionometer: Not Available
Current Value: 356.00 kips
Cable Components
Length Wt (Wt/L)
Fairlead
F'lead Seg 1 3190.00 91.00
Anchor 0.00
AHV to Anc 0.00 0.00
Add... Edit... Delete Last
Anchor Handling Vessel Cable
Weight/Length... Out: 0 ft
Depth... 52.00 m View Section...
Enable Comp Update Catenary
Anchor
Computed Actual
E: 627345.21 627387.59
N: 5791787.89 5791741.05
Depth: 170.60 ft 0.00 ft
Horizontal Range From Fairlead
Comp: 3174.94 ft Act: 3382.23 ft
Computed Minus Actual: -207.28 ft
Brg From Fairlead
Comp: 137.0 °T Act: 137.0 °T
Use Intended (Planning Only)
Transfer All Comp --> Actual
Touchdown Points
Point: 1 Down Total: 1
E: 626917.38 N: 5792260.71
Horiz Rng From F'lead: 1082.48 ft
Units... Close

APPENDIX F

GYROCOMPASS CALIBRATION REPORT

THALES

Thales GeoSolutions (Australasia) Limited

ABN 82 000 601 909

Solar Observation for Azimuth (Hour Angle) 2002

Thales Job Number: 3383A3
Job Description: Ocean Bounty Rig Move to Baleen-3
Client: OMV
Party Chief: M.Dybala
Surveyor: M.Dybala
Rig Name: Ocean Bounty
Date: 16 May 2002

Control Point Co-ordinates

Datum: WGS84

Latitude (DMS):	-038	44	02
Longitude (DMS):	144	33	21
UTC Correction (HMS):	10.00		

Total Station Observations:

Face	Local Time (HMS)			Observed Direction to R.O. (DMS)			Observed Direction to Sun (DMS)			Observed (O) True Heading (D.D)
Left	08	04	24	000	00	00	311	11	24	105.20
Right	08	04	24	180	00	00	131	11	24	
Left	08	06	35	000	00	00	310	28	36	105.50
Right	08	06	35	180	00	00	130	28	36	
Left	08	08	37	000	00	00	310	26	36	105.20
Right	08	08	37	180	00	00	130	26	36	
Left	08	09	51	000	00	00	311	40	24	104.00
Right	08	09	51	180	00	00	131	40	24	
Left	08	11	29	000	00	00	308	45	24	106.30
Right	08	11	29	180	00	00	128	45	24	
Left	08	12	57	000	00	00	310	50	00	103.80
Right	08	12	57	180	00	00	130	50	00	
Left	08	14	07	000	00	00	309	20	48	105.50
Right	08	14	07	180	00	00	129	20	48	
Left	08	15	03	000	00	00	309	25	00	105.00
Right	08	15	03	180	00	00	129	25	00	
Left	08	15	56	000	00	00	309	05	48	104.50
Right	08	15	56	180	00	00	129	05	48	
Left	08	18	34	000	00	00	307	10	24	106.80
Right	08	18	34	180	00	00	127	10	24	
Left	08	20	56	000	00	00	308	55	48	104.50
Right	08	20	56	180	00	00	128	55	48	
Left	08	21	48	000	00	00	308	58	00	104.20
Right	08	21	48	180	00	00	128	58	00	

Signature

SURVEYOR/PARTY CHIEF

CLIENT SURVEY REPRESENTATIVE

THALES

Thales GeoSolutions (Australasia) Limited

ABN 82 000 601 909

Solar Observation for Azimuth (Hour Angle) 2002

Thales Job Number: 3383A3
Job Description: Ocean Bounty Rig Move to Baleen-3
Client: OMV
Party Chief: M.Dybala
Surveyor: M.Dybala
Rig Name: Ocean Bounty
Date: 16 May 2002

Datum: WGS84

Average Local Time (HMS)			Average Horizontal Angle (DMS)			Azimuth Sun (DMS)			Azimuth RO (DMS)			Calculated (C) True Heading (D.D)	Observed (O) True Heading (D.D)	C-O (D.D)
08	04	24.0	311	11	24	058	29	05	107	17	41	107.29	105.20	2.09
08	06	35.0	310	28	36	058	06	49	107	38	13	107.64	105.50	2.14
08	08	37.0	310	26	36	057	45	59	107	19	23	107.32	105.20	2.12
08	09	51.0	311	40	24	057	33	19	105	52	55	105.88	104.00	1.88
08	11	29.0	308	45	24	057	16	28	108	31	04	108.52	106.30	2.22
08	12	57.0	310	50	00	057	01	18	106	11	18	106.19	103.80	2.39
08	14	07.0	309	20	48	056	49	11	107	28	23	107.47	105.50	1.97
08	15	00.0	309	25	00	056	39	29	107	14	29	107.24	105.00	2.24
08	15	56.0	309	05	48	056	30	16	107	24	28	107.41	104.50	2.91
08	18	34.0	307	10	24	056	02	43	108	52	19	108.87	106.80	2.07
08	20	56.0	308	55	48	055	37	49	106	42	01	106.70	104.50	2.20
08	21	48.0	308	58	00	055	28	39	106	30	39	106.51	104.20	2.31

Mean C-O **2.21**

Signature

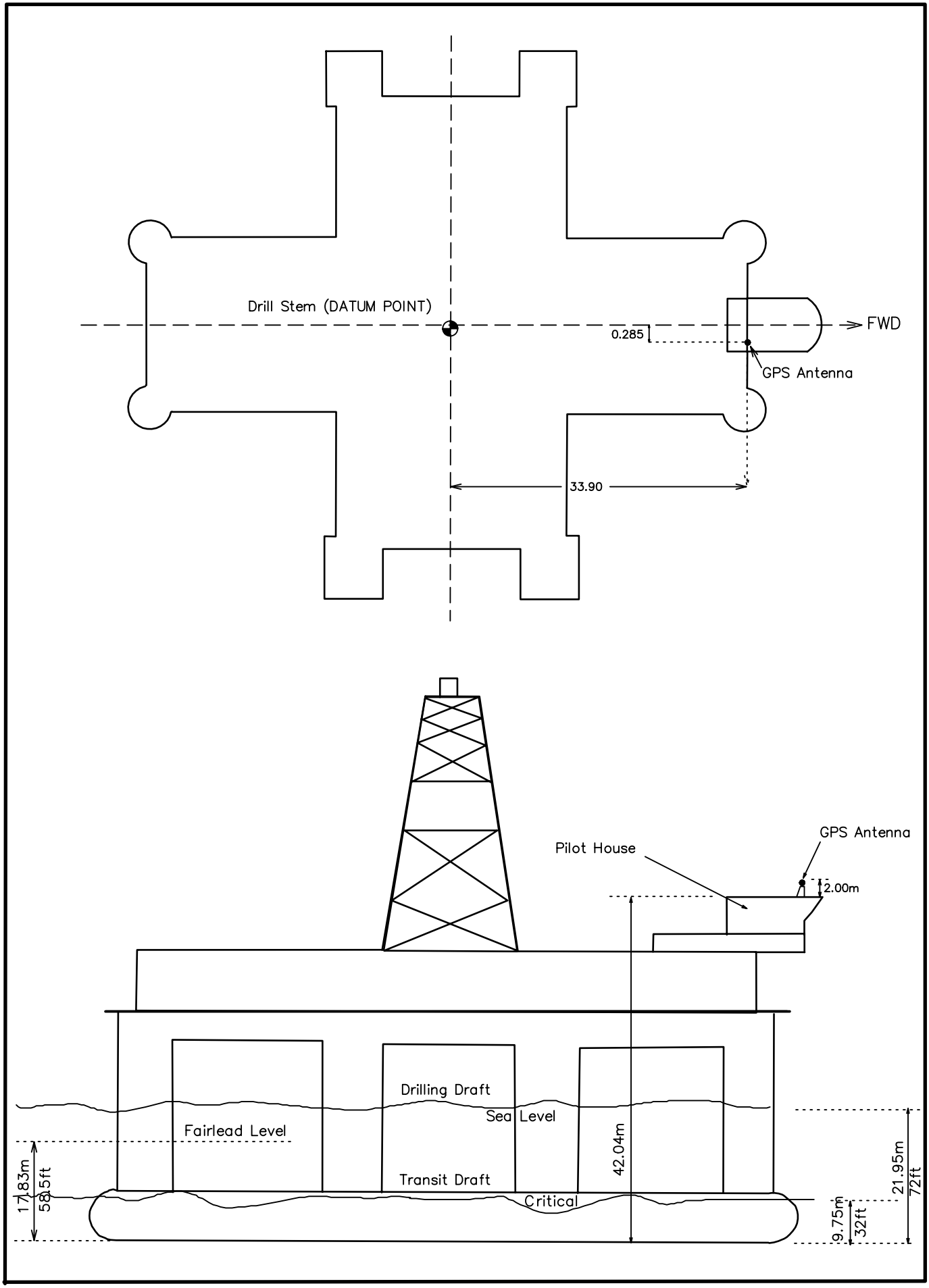
SURVEYOR/PARTY CHIEF

CLIENT SURVEY REPRESENTATIVE

APPENDIX G

OCEAN BOUNTY OFFSET DIAGRAM

OCEAN BOUNTY OFFSET DIAGRAM

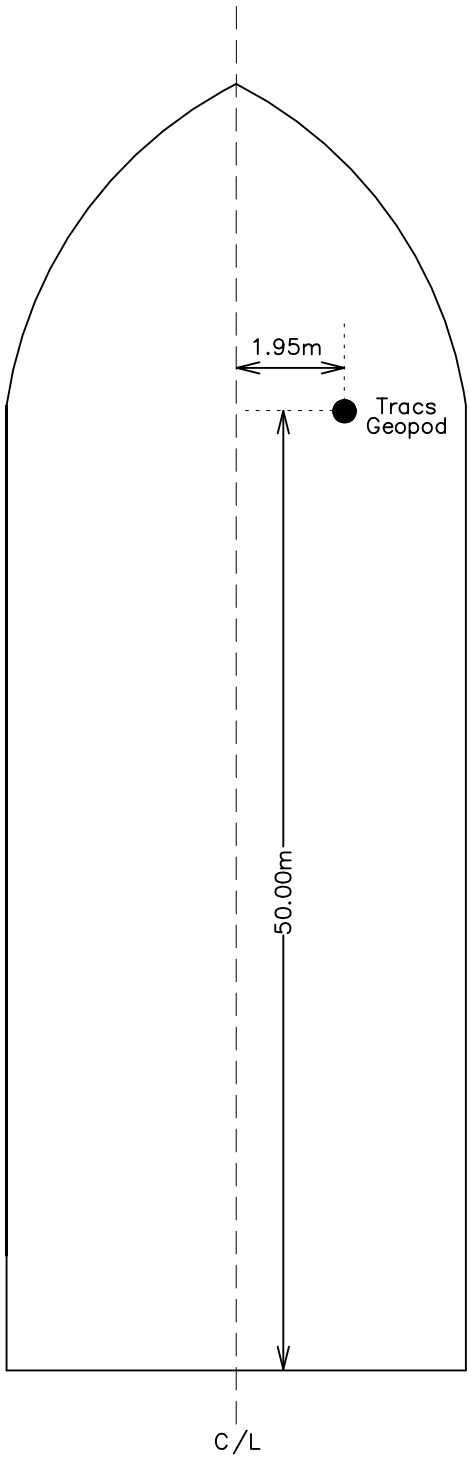


NOT TO SCALE

APPENDIX H

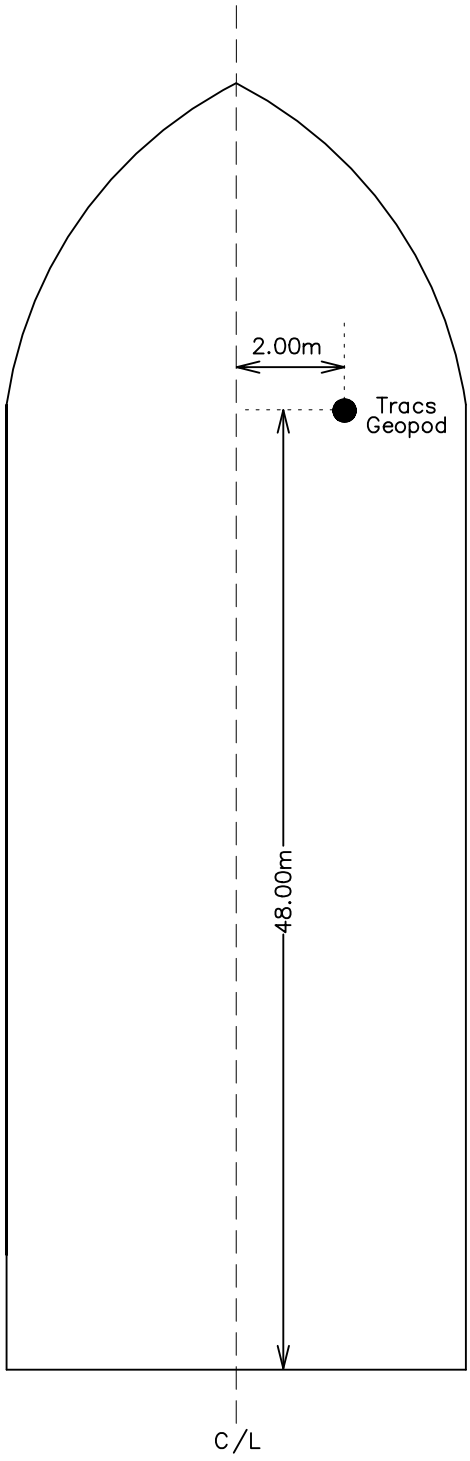
PACIFIC SENTINEL AND PACIFIC CONQUEROR OFFSET DIAGRAMS

PACIFIC SENTINEL



(NOT TO SCALE)

PACIFIC CONQUEROR



(NOT TO SCALE)

APPENDIX I

GNS2 CONFIGURATION FILE PRINTOUT

GNS II CONFIGURATION FILE C:\3383a3\3383a3.gns

JOB DETAILS
Job Number : 3383A3
Job Description : Baleen-3
Company : Thales GeoSolutions Group Ltd
Client : OMV
Time Zone : GMT +9:00

WORKING SPHEROID
AGD 1966
Semi-major : 6378160.000 m
e Squared : 0.006694541855

WORKING PROJECTION
AMG Zone 55
Lat of Origin : 00°00.00000'N
Long of Origin : 147°00.00000'E
False Easting : 500000.00
False Northing : 10000000.00
Scale Factor : 0.999600
Units : Metres

GPS TRANSFORMATION
From : WGS 84
Semi-major : 6378137.000 m
e Squared : 0.006694380067
To : AGD 1966
Dx : 123.314 m
Dy : 47.223 m
Dz : -136.594 m
Rot x : 0.2640 secs
Rot y : 0.3220 secs
Rot z : 0.2700 secs
Scale : 1.3840 ppm

WAYPOINTS

SOL	E:	643781.55	N:	5797530.04	Ht:	0.00 m		
TP1	E:	632506.77	N:	5797720.42	Ht:	0.00 m		
Baleen-1	E:	626048.80	N:	5792058.60	Ht:	0.00 m		
Anchor	E:	246961.00	N:	5730697.00	Ht:	0.00 m		
Baleen-3	E:	626676.40	N:	5792539.70	Ht:	0.00 m	Tol1:	5.00 m Tol2:
Patricia-1	E:	626947.80	N:	5789695.40	Ht:	0.00 m		

TRACK GUIDANCE
Run_in

SOL	E:	632506.00	N: 5797720.00	HT:	0.00	KP: 0.000
EOL	E:	627584.80	N: 5793395.50	HT:	0.00	KP: 6.553

Verified by: (sign)_____ (print)_____

GNS II CONFIGURATION FILE C:\3383a3\3383a3.gns

MOBILES
Ocean Bounty (semi-sub rig)
  Shape Definition: semi-sub rig
   Line:-
    X: -50.00 m Y: -50.00 m
    X: -50.00 m Y: 40.00 m
    X: -45.00 m Y: 50.00 m
    X: -40.00 m Y: 40.00 m
    X: 40.00 m Y: 40.00 m
    X: 45.00 m Y: 50.00 m
    X: 50.00 m Y: 40.00 m
    X: 50.00 m Y: -50.00 m
    X: 40.00 m Y: -50.00 m
    X: 40.00 m Y: -40.00 m
    X: -40.00 m Y: -40.00 m
    X: -40.00 m Y: -50.00 m
    X: -50.00 m Y: -50.00 m

  Tracking Point   : Fairlead 6
  Pitch and Roll Centre: Datum

  Selected Sources:-
   Primary Position : T1 Thales UKOOA (Using Antenna Offset : GPS)
   Backup Position : T2 Thales UKOOA (Using Antenna Offset : GPS)
   Primary Heading : S1 SGB 1000S
   Primary Height   : Datum Displacement
   Pitch and Roll   : Manual
   Soundings   : Manual
   Speed   : Position Filter
   Course Made Good : Posn Filter CMG

  Equipment:-
   T1 Thales UKOOA
    Status: ON   Interface: Sock1
    Antenna Offset Selected: GPS
     X: 0.28 m Y: 33.90 m Z: 20.00 m Rng: 33.90 m Brg: 0.5°
    Apply Pitch Roll: Off Stale Time: 5.0 s Posn SD: 3.0 m Ht SD: 1.0 m
    Update posn only when diff corrected
    Filter: Off Time Constant:60.0 s Sample Dwell: 0.5 s
    Gate: Off Gate Width: 9.0 xSD Minimum Gate: 0.0 m

   T2 Thales UKOOA
    Status: ON   Interface: Sock2
    Antenna Offset Selected: GPS
     X: 0.28 m Y: 33.90 m Z: 20.00 m Rng: 33.90 m Brg: 0.5°
    Apply Pitch Roll: Off Stale Time: 5.0 s Posn SD: 3.0 m Ht SD: 1.0 m
    Update posn regardless of whether diff corrected
    Filter: Off Time Constant:60.0 s Sample Dwell: 0.5 s

Verified by: (sign)_____ (print)_____

GNS II CONFIGURATION FILE C:\3383a3\3383a3.gns

Gate: Off Gate Width: 9.0 xSD Minimum Gate: 0.0 m

S1 SGB 1000S
Status: ON Interface: COM6
C-O: 2.2 degs Stale Time: 5.0 s SD: 0.1 degs
Filter: Off Gate: Off Time Constant: 5.0 s Sample Dwell: 0.5 s

T3 Tracs TDMA Master
Status: ON Interface: COM10
Antenna Offset Selected: GPS
X: 0.28 m Y: 33.90 m Z: 20.00 m Rng: 33.90 m Brg: 0.5°

Defined Offsets:-
Datum
X: 0.00 m Y: 0.00 m Z: 0.00 m Rng: 0.00 m Brg: 0.0°
GPS
X: 0.28 m Y: 33.90 m Z: 20.00 m Rng: 33.90 m Brg: 0.5°
Fairlead 1
X: -39.30 m Y: 12.60 m Z: -4.11 m Rng: 41.27 m Brg:287.8°
Fairlead 2
X: -39.30 m Y: 16.60 m Z: -4.11 m Rng: 42.66 m Brg:292.9°
Fairlead 3
X: 39.30 m Y: 16.60 m Z: -4.11 m Rng: 42.66 m Brg: 67.1°
Fairlead 4
X: 39.30 m Y: 12.60 m Z: -4.11 m Rng: 41.27 m Brg: 72.2°
Fairlead 5
X: 39.30 m Y: -12.60 m Z: -4.11 m Rng: 41.27 m Brg:107.8°
Fairlead 6
X: 39.30 m Y: -16.60 m Z: -4.11 m Rng: 42.66 m Brg:112.9°
Fairlead 7
X: -39.30 m Y: -16.60 m Z: -4.11 m Rng: 42.66 m Brg:247.1°
Fairlead 8
X: -39.30 m Y: -12.60 m Z: -4.11 m Rng: 41.27 m Brg:252.2°

Conquerer (ship)
Shape Definition: ship
Line:-
X: -10.00 m Y: -30.00 m
X: -10.00 m Y: 10.00 m
X: 0.00 m Y: 30.00 m
X: 10.00 m Y: 10.00 m
X: 10.00 m Y: -30.00 m
X: -10.00 m Y: -30.00 m

Tracking Point : Datum
Pitch and Roll Centre: Datum

Selected Sources:-
Primary Position : T4 Tracs TDMA Remote (Using Antenna Offset : Pod)
Primary Heading : T4 Tracs TDMA Remote

Verified by: (sign)_____ (print)_____

GNS II CONFIGURATION FILE C:\3383a3\3383a3.gns

```
   Primary Height    : Datum Displacement
   Pitch and Roll    : Manual
   Soundings         : Manual
   Speed             : T4 Tracs TDMA Remote
   Course Made Good  : Posn Filter CMG

  Equipment:-
   T4 Tracs TDMA Remote
    Status:  ON   Interface: Not defined
    Antenna Offset Selected: Pod
     X:    2.00 m Y:   48.00 m Z:    0.00 m Rng:   48.04 m Brg:  2.4°

  Defined Offsets:-
   Datum
    X:    0.00 m Y:    0.00 m Z:    0.00 m Rng:    0.00 m Brg:  0.0°
   Pod
    X:    2.00 m Y:   48.00 m Z:    0.00 m Rng:   48.04 m Brg:  2.4°

Sentinel (ship)
  Shape Definition: ship
   Line:-
    X: -10.00 m  Y: -30.00 m
    X: -10.00 m  Y:  10.00 m
    X:   0.00 m  Y:  30.00 m
    X:  10.00 m  Y:  10.00 m
    X:  10.00 m  Y: -30.00 m
    X: -10.00 m  Y: -30.00 m

  Tracking Point       : Datum
  Pitch and Roll Centre: Datum

  Selected Sources:-
   Primary Position : T5 Tracs TDMA Remote (Using Antenna Offset : Pod)
   Primary Heading  : Posn Filter CMG
   Primary Height   : Datum Displacement
   Pitch and Roll   : Manual
   Soundings        : Manual
   Speed            : Position Filter
   Course Made Good : Posn Filter CMG

  Equipment:-
   T5 Tracs TDMA Remote
    Status:  ON   Interface: Not defined
    Antenna Offset Selected: Pod
     X:    1.95 m Y:   50.00 m Z:    0.00 m Rng:   50.04 m Brg:  2.2°

  Defined Offsets:-
   Datum
    X:    0.00 m Y:    0.00 m Z:    0.00 m Rng:    0.00 m Brg:  0.0°
   Pod
```

Verified by: (sign)_____ (print)_____

GNS II CONFIGURATION FILE C:\3383a3\3383a3.gns

X: 1.95 m Y: 50.00 m Z: 0.00 m Rng: 50.04 m Brg: 2.2°

ANCHORS

Ocean Bounty

Fairleads:-

Name	X	Y	Z	Rng	Brg
Fairlead 1	-39.30 m	12.60 m	-4.11 m	41.27 m	287.8°
Fairlead 2	-39.30 m	16.60 m	-4.11 m	42.66 m	292.9°
Fairlead 3	39.30 m	16.60 m	-4.11 m	42.66 m	67.1°
Fairlead 4	39.30 m	12.60 m	-4.11 m	41.27 m	72.2°
Fairlead 5	39.30 m	-12.60 m	-4.11 m	41.27 m	107.8°
Fairlead 6	39.30 m	-16.60 m	-4.11 m	42.66 m	112.9°
Fairlead 7	-39.30 m	-16.60 m	-4.11 m	42.66 m	247.1°
Fairlead 8	-39.30 m	-12.60 m	-4.11 m	41.27 m	252.2°

Main Intended Positions:-

Name	Easting	Northing	Depth	Tolerance
Anchor 1	626299.50	5791343.56	0.00 m	0.00 m
Anchor 2	625768.00	5791683.89	0.00 m	50.00 m
Anchor 3	625496.85	5792947.46	0.00 m	50.00 m
Anchor 4	625841.92	5793475.88	0.00 m	50.00 m
Anchor 5	627053.30	5793735.84	0.00 m	50.00 m
Anchor 6	627584.80	5793395.51	0.00 m	50.00 m
Anchor 7	627855.95	5792131.93	0.00 m	50.00 m
Anchor 8	627510.87	5791603.51	0.00 m	50.00 m

Main Actual Positions:-

Name	Easting	Northing	Depth	Tolerance
Anchor 1	0.00	0.00	0.00 m	0.00 m
Anchor 2	0.00	0.00	0.00 m	50.00 m
Anchor 3	0.00	0.00	0.00 m	50.00 m
Anchor 4	0.00	0.00	0.00 m	50.00 m
Anchor 5	0.00	0.00	0.00 m	50.00 m
Anchor 6	0.00	0.00	0.00 m	50.00 m
Anchor 7	0.00	0.00	0.00 m	50.00 m
Anchor 8	0.00	0.00	0.00 m	50.00 m

Verified by: (sign) W. Edmond (print) W. EDMONDS.

APPENDIX J

DAILY REPORT SHEETS

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date: 13-05-2002 Client: OMV Job No.: 3383A3 Vessel: Ocean BountyLocation: Melbourne

Equipment	Op	
SkyFix		
SkyFix Spot		
Gyro		
GNS 2		
MultiFix 2		
GRREP		
Tracs		

Equipment	Op	
Echo Sounder		
Sidescan		
Boomer		
Heave Comp		
Velocity Probe		
ENSIN/CODA		

Racal Personnel
M.Dybala
S.Bradley
E.Greenfield
Client Personnel

WX	Sea State	Swell	Wind Dir.
0000			
0600			
1200			
1800			

DIARY OF OPERATIONS PAGE 1 OF 13

TIME	Time Zone=UTC+8.00
0600	Thales personnel M.Dybala(MD), S.Bradley(SB) and E.Greenfield(EG) depart Perth Airport for Melbourne.
0900	Arrive Melbourne, transfer to Holiday Inn.
1730	Call N.Mackay(NM) for update on tomorrows flight to Ocean Bounty(OB). No change.

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	:Operations Department
YELLOW	: Clients Representative

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date: 14-05-2002 Client: OMV Job No.: 3383A3 Vessel: Ocean BountyLocation: Melbourne

Equipment	Op	
SkyFix	X	
SkyFix Spot	X	
Gyro	X	
GNS 2	X	
MultiFix 2	X	
GRREP	X	
Tracs		

Equipment	Op	
Echo Sounder		
Sidescan		
Boomer		
Heave Comp		
Velocity Probe		
ENSIN/CODA		

Racal Personnel
M.Dybala
S.Bradley
E.Greenfield
Client Personnel

WX	Sea State	Swell	Wind Dir.
0000			
0600			
1200			
1800			

DIARY OF OPERATIONS PAGE 2 OF 13

TIME	Time Zone=UTC+10.00
0815	Thales personnel MD, SB and EG depart Holiday Inn for Essendon Airport.
0900	Thales personnel arrive Essendon, check in at Bristows hangar.
1100	Thales personnel depart Essendon for OB.
1130	Thales personnel arrive OB.
1200	MD attends rig induction, SB and EG commence mobilisation of Thales equipment.
1430	Thales equipment operational. Tracs not tested.
1500	Load GNS config files for Baleen-3 rig move. Laptop computer configured as Tracs remote for testing.
1700	Unable to complete gyro calibration due to cloud cover.
1730	MD, SB and EG attend pre-tour meeting.
2100	Tracs working with basic GNS configuration only. Pacific Sentinel(PS) and Pacific Conquerer(PC) remote displays not yet tested.
2400	OB at anchor Lat: 38° 32' 05" S Long: 144° 05' 55" E.

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Signature _____ SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	:Operations Department
YELLOW	: Clients Representative

Signature _____ CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date: 15-05-2002 Client: OMV Job No.: 3383A3 Vessel: Ocean BountyLocation: Bass Strait

Equipment	Op	
SkyFix	X	
SkyFix Spot	X	
Gyro	X	
GNS 2	X	
MultiFix 2	X	
GRREP	X	
Tracs		

Equipment	Op	
Echo Sounder		
Sidescan		
Boomer		
Heave Comp		
Velocity Probe		
ENSIN/CODA		

Racal Personnel
M.Dybala
S.Bradley
E.Greenfield
Client Personnel
W.Edmonds

WX	Sea State	Swell	Wind Dir.
0000			
0600			
1200			
1800			

DIARY OF OPERATIONS PAGE 3 OF 13

TIME	Time Zone=UTC+10.00
0000	OB at anchor Lat: 38° 32' 05" S Long: 144° 05' 55" E.
0630	Unable to complete gyro calibration this morning due to cloud cover.
0700	Reconfigure GNS for Baleen-3 rig move. Continue with Tracs testing.
0800	PC departs OB location for Melbourne.
1200	Confirm Baleen-3 location as Lat: 38° 00' 21.04" S Long: 148° 26' 34.44 E Hdg: 257°
1600	Tracs seems to be testing ok on laptop. So far unable to get PS remote system running.
1645	GNS configuration printed and checked. Have not received anchor location data yet.
1653	Commence anchor recovery. # 3 PCC passed to PS.
1700	Unable to complete gyro cal due to cloud cover.
1730	MD, SB and EG attend pre-tour meeting.
1830	Continue on with Tracs testing.
2020	Anchor # 3 off bottom, heave in.
2035	# 7 PCC passed to PC.
2106	Anchor # 7 off bottom, heave in.
2310	Main tow bridle passed to PS.
2400	OB at anchor Lat: 38° 32' 05" S Long: 144° 05' 55" E.

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Signature _____
SURVEYOR/ENGINEER

WHITE : Accounts Department
BLUE :Operations Department
YELLOW : Clients Representative

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date: 16-05-2002 Client: OMV Job No.: 3383A3 Vessel: Ocean BountyLocation: Bass Strait

Equipment	Op	
SkyFix	X	
SkyFix Spot	X	
Gyro	X	
GNS 2	X	
MultiFix 2	X	
GRREP	X	
Tracs		

Equipment	Op	
Echo Sounder		
Sidescan		
Boomer		
Heave Comp		
Velocity Probe		
ENSIN/CODA		

Racal Personnel
M.Dybala
S.Bradley
E.Greenfield
Client Personnel
W.Edmonds

WX	Sea State	Swell	Wind Dir.
0000			
0600			
1200			
1800			

DIARY OF OPERATIONS PAGE 4 OF 13

TIME	Time Zone=UTC+10.00
0000	OB at anchor Lat: 38° 32’ 05” S Long: 144° 05’ 55” E.
0240	OB departs location for Baleen-3.
0600	MD attends pre-tour meeting.
0700	OB under tow 290nm from Baleen-3. No route data supplied by tow-master.
0800	Commence gyro calibration using solar azimuth.
0820	Observations complete.
0900	MD and SB assist unloading stores for OB.
1040	Finish unloading stores.
1300	MD, SB and EG attend weekly safety meeting.
1400	C-O calculated for gyro at 2.2°. Entered into GNS.
1730	SB and EG attend pre-tour meeting.
2400	OB under tow at Lat: 39° 17’ 17” S Long: 146° 23’ 59” E.

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Signature _____
SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	:Operations Department
YELLOW	: Clients Representative

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date: 17-05-2002 Client: OMV Job No.: 3383A3 Vessel: Ocean BountyLocation: Bass Strait

Equipment	Op	
SkyFix	X	
SkyFix Spot	X	
Gyro	X	
GNS 2	X	
MultiFix 2	X	
GRREP	X	
Tracs		

Equipment	Op	
Echo Sounder		
Sidescan		
Boomer		
Heave Comp		
Velocity Probe		
ENSIN/CODA		

Racal Personnel
M.Dybala
S.Bradley
E.Greenfield
Client Personnel
W.Edmonds

WX	Sea State	Swell	Wind Dir.
0000			
0600			
1200			
1800			

DIARY OF OPERATIONS PAGE 5 OF 13

TIME	Time Zone=UTC+10.00
0000	OB under tow Lat: 39° 17' 17" S Long: 146° 23' 59" E.
0600	MD attends pre-tour meeting.
0900	MD talks with OIM and Barge Engineer about anchor deployment at Baleen-3. Receive run-in route for first anchor (#6) from PS Master. Anchor and route data entered into GNS.
1000	Check offsets and fairleads on OB.
1130	GNS system data printed and passed to W.Edmonds (BE) for checking.
1730	Fire alarm sounded, all personnel muster at lifeboats. (Smouldering fire in engine room reported).
1800	SB and EG attend pre-tour meeting.
2400	Approach to Baleen-3 halted. OB running along 100 fathom line due to weather.

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Signature _____ SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	:Operations Department
YELLOW	: Clients Representative

Signature _____ CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date: 18-05-2002 Client: OMV Job No.: 3383A3 Vessel: Ocean BountyLocation: Bass Strait

Equipment	Op	
SkyFix	X	
SkyFix Spot	X	
Gyro	X	
GNS 2	X	
MultiFix 2	X	
GRREP	X	
Tracs		

Equipment	Op	
Echo Sounder		
Sidescan		
Boomer		
Heave Comp		
Velocity Probe		
ENSIN/CODA		

Racal Personnel
M.Dybala
S.Bradley
E.Greenfield
Client Personnel
W.Edmonds

WX	Sea State	Swell	Wind Dir.
0000			
0600			
1200			
1800			

DIARY OF OPERATIONS PAGE 6 OF 13

TIME	Time Zone=UTC+10.00
0000	Approach to Baleen-3 halted. OB running along 100 fathom line due to weather.
0600	MD attends pre-tour meeting.
0620	PS advised MD of alarm from nav equipment, told to turn equipment off as it does not appear to be currently working. SB advised, possibly key stuck on keyboard.
1130	SB and EG attend pre-tour meeting.
1200	Tracs is currently operating with PC and test unit on rig. The PS is still not operational at this time.
2400	Approach to Baleen-3 halted. OB running along 100 fathom line due to weather.

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Signature _____ SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	:Operations Department
YELLOW	: Clients Representative

Signature _____ CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date: 19-05-2002 Client: OMV Job No.: 3383A3 Vessel: Ocean BountyLocation: Bass Strait

Equipment	Op	
SkyFix	X	
SkyFix Spot	X	
Gyro	X	
GNS 2	X	
MultiFix 2	X	
GRREP	X	
Tracs		

Equipment	Op	
Echo Sounder		
Sidescan		
Boomer		
Heave Comp		
Velocity Probe		
ENSIN/CODA		

Racal Personnel
M.Dybala
S.Bradley
E.Greenfield
Client Personnel
W.Edmonds

WX	Sea State	Swell	Wind Dir.
0000			
0600			
1200			
1800			

DIARY OF OPERATIONS PAGE 7 OF 13

TIME	Time Zone=UTC+10.00
0000	Approach to Baleen-3 halted. OB running along 100 fathom line due to weather.
0600	MD attends pre-tour meeting.
0630	Tracs is currently operating with PC and test unit on rig. The PS is still not operational at this time.
1100	Call NM to update on rig schedule.
1130	SB and EG attend pre-tour meeting.
2400	Approach to Baleen-3 halted. OB running along 100 fathom line due to weather.

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Signature _____
SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	:Operations Department
YELLOW	: Clients Representative

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date: 20-05-2002 Client: OMV Job No.: 3383A3 Vessel: Ocean BountyLocation: Bass Strait

Equipment	Op	
SkyFix	X	
SkyFix Spot	X	
Gyro	X	
GNS 2	X	
MultiFix 2	X	
GRREP	X	
Tracs		

Equipment	Op	
Echo Sounder		
Sidescan		
Boomer		
Heave Comp		
Velocity Probe		
ENSIN/CODA		

Racal Personnel
M.Dybala
S.Bradley
E.Greenfield
Client Personnel
W.Edmonds

WX	Sea State	Swell	Wind Dir.
0000			
0600			
1200			
1800			

DIARY OF OPERATIONS PAGE 8 OF 13

TIME	Time Zone=UTC+10.00
0000	Approach to Baleen-3 halted. OB running along 100 fathom line due to weather.
0600	MD attends pre-tour meeting.
0700	Tracs signal from PC erratic, Diff. Corrections dropping out occasionally.
1430	SB departs OB for Essendon airport.
2400	On approach to Baleen-3. Lat: 38° 23' 20" S Long: 148° 56' 20" E 33.7nm from Baleen-3.

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Signature _____
SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	:Operations Department
YELLOW	: Clients Representative

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date: 21-05-2002 Client: OMV Job No.: 3383A3 Vessel: Ocean BountyLocation: Bass Strait

Equipment	Op	
SkyFix	X	
SkyFix Spot	X	
Gyro	X	
GNS 2	X	
MultiFix 2	X	
GRREP	X	
Tracs	X	

Equipment	Op	
Echo Sounder		
Sidescan		
Boomer		
Heave Comp		
Velocity Probe		
ENSIN/CODA		

Racal Personnel
M.Dybala
E.Greenfield
Client Personnel
W.Edmonds

WX	Sea State	Swell	Wind Dir.
0000			
0600			
1200			
1800			

DIARY OF OPERATIONS PAGE 9 OF 13

TIME	Time Zone=UTC+10.00
0000	On approach to Baleen-3. Lat: 38° 23' 20" S Long: 148° 56' 20" E 33.7nm from Baleen-3.
0600	MD and EG attends pre-tour meeting.
0700	PC instructed to shut down GNS II while PS GNS II started up. Check GNS II config on PS, does not have current shapes.lbr file. Start GNS II with different mobile shapes selected, seems to run ok. Restart PC GNS II, both systems operating intermittently.
0810	Approach to Baleen-3 aborted due to weather. 23.05 nm from Baleen-3 location. Holding off at present location.
1900	MD and EG attend weekly safety meeting.
2400	Standby for weather. Lat: 38° 13' 29" S Long: 148° 43' 29" E 19.2nm from Baleen-3.

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Signature _____ SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	:Operations Department
YELLOW	: Clients Representative

Signature _____ CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date: 22-05-2002 Client: OMV Job No.: 3383A3 Vessel: Ocean BountyLocation: Bass Strait

Equipment	Op	
SkyFix	X	
SkyFix Spot	X	
Gyro	X	
GNS 2	X	
MultiFix 2	X	
GRREP	X	
Tracs	X	

Equipment	Op	
Echo Sounder		
Sidescan		
Boomer		
Heave Comp		
Velocity Probe		
ENSIN/CODA		

Racal Personnel
M.Dybala
E.Greenfield
Client Personnel
W.Edmonds

WX	Sea State	Swell	Wind Dir.
0000			
0600			
1200			
1800			

DIARY OF OPERATIONS PAGE 10 OF 13

TIME	Time Zone=UTC+10.00
0000	Standby for weather. Lat: 38° 13' 29" S Long: 148° 43' 29" E 19.2nm from Baleen-3.
0600	MD attends pre-tour meeting.
2400	Standby for weather.

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Signature _____
SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	:Operations Department
YELLOW	: Clients Representative

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date: 23-05-2002 Client: OMV Job No.: 3383A3 Vessel: Ocean BountyLocation: Bass Strait

Equipment	Op	
SkyFix	X	
SkyFix Spot	X	
Gyro	X	
GNS 2	X	
MultiFix 2	X	
GRREP	X	
Tracs	X	

Equipment	Op	
Echo Sounder		
Sidescan		
Boomer		
Heave Comp		
Velocity Probe		
ENSIN/CODA		

Racal Personnel
M.Dybala
E.Greenfield
Client Personnel
W.Edmonds

WX	Sea State	Swell	Wind Dir.
0000			
0600			
1200			
1800			

DIARY OF OPERATIONS

TIME	Time Zone=UTC+10.00
0000	Heading for Baleen-3 location.
0600	MD attends pre-tour meeting.
0635	Attach PS to main tow bridle.
0655	PC released from starboard towing bridle.
0710	Commence run-in to Baleen-3, anchor #6.
0720	Tracs working ok, can see both boats, unable to display correct vessel shapes.
0730	MD attends pre-spud meeting.
0815	Shorten run-in line for anchor #6 to 2 nm at survey QC's request. PS remote updated ok.
1030	OB on run-in line (227°) to #6 anchor.
1325	#6 anchor on seabed.
1410	OB over Baleen-3 location.
1415	EG transfers to PC to check GNS setup.
1430	#2 PCC passed to PC. Waiting for OB to get over location.
1530	PC commences run-out #2 anchor.
1539	#2 anchor on seabed. Only approx. 2000ft of chain out.
1645	Heaving in on #2 anchor whilst letting out chain on #6.
1700	Tracs not operational on PC. Calculate WGS84 intended anchor position for PC to use with their own GPS receiver. Lat: 38° 0.73' S Long: 148° 26.038' E.
1734	PC commences running #2 anchor. Tracs not operational.
1744	Anchor #2 on seabed. Receive GPS position from vessel. Lat: 38° 0.624' S Long: 148° 26.045' E. AMG position for dropped anchor calculated: 625781 E 5791877 N. Position accepted by Survey rep. And OIM.
1830	Load spare pod onto PC.
1836	#2 PCC passed to rig.
1905	Good Tracs signal from PC.
1950	#1 PCC passed to PC.
2014	#1 PCC broke. Anchor left hanging under fairlead.
2030	Commence heaving in on #6 anchor whilst letting out on #2.
2112	#3 PCC passed to PC.
2138	#3 anchor on seabed.
2200	#3 PCC passed to OB.
2225	#7 PCC passed to PC. Rig moved towards #7 drop location.

2341	#7 anchor on seabed.

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Signature _____
SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	:Operations Department
YELLOW	: Clients Representative

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date: 24-05-2002 Client: OMV Job No.: 3383A3 Vessel: Ocean BountyLocation: Bass Strait

Equipment	Op	
SkyFix	X	
SkyFix Spot	X	
Gyro	X	
GNS 2	X	
MultiFix 2	X	
GRREP	X	
Tracs	X	

Equipment	Op	
Echo Sounder		
Sidescan		
Boomer		
Heave Comp		
Velocity Probe		
ENSIN/CODA		

Racal Personnel
M.Dybala
E.Greenfield
Client Personnel
W.Edmonds

WX	Sea State	Swell	Wind Dir.
0000			
0600			
1200			
1800			

DIARY OF OPERATIONS

TIME	Time Zone=UTC+10.00
0003	PS released from tow bridle. Lost Tracs on PS.
0010	#7 PCC passed to OB.
0055	#8 PCC passed to PC.
0110	#8 anchor on seabed.
0130	#8 PCC passed to OB.
0300	#4 PCC passed to PC.
0326	#4 anchor on seabed.
0345	#4 PCC passed to OB.
0400	#5 PCC passed to PC.
0430	#5 anchor on seabed.
0446	#5 PCC passed to OB.
0500	PC commences recovery of #1 anchor using J-hook.
0630	PC hooked #1 anchor.
0830	#1 anchor upside down.
1000	PC commences running.
1013	#1 anchor on seabed.
1037	#1 PCC passed to OB.
1115	Complete storm tensioning, commence ballasting down to drilling draft.
1400	EG transferred from PC to PS to check GNS configuration and Tracs system.
1500	Conducting tests of Tracs with both vessels operational. Seems to be ok, some anchor assignments not received occasionally.
1600	Measure height difference from top of Pilot House to Rotay Table.
1700	EG transferred to OB.

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Signature _____
SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	:Operations Department
YELLOW	: Clients Representative

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date: 25-05-2002 Client: OMV Job No.: 3383A3 Vessel: Ocean BountyLocation: Bass Strait

Equipment	Op	
SkyFix	X	
SkyFix Spot	X	
Gyro	X	
GNS 2	X	
MultiFix 2	X	
GRREP	X	
Tracs	X	

Equipment	Op	
Echo Sounder		
Sidescan		
Boomer		
Heave Comp		
Velocity Probe		
ENSIN/CODA		

Racal Personnel
M.Dybala
E.Greenfield
Client Personnel
W.Edmonds

WX	Sea State	Swell	Wind Dir.
0000			
0600			
1200			
1800			

DIARY OF OPERATIONS PAGE 13 OF 13

TIME	Time Zone=UTC+10.00
0703	Commence final fix at Baleen-3 location.
0803	Complete final fix. OB datum position is 1.7m @ 340° from the Baleen-3 location. Final fix accepted by Survey QC. Height of rotary table calculated as 26.25m above LAT.
0830	Commence backing up data.
	Engineering Comment: It has been ascertained that the pod antennae in service on the two vessels have malfunctioned. These have been changed out with the spare units and the Tracs system is now operating correctly. The cause of the malfunction will be determined when both units are disassembled in Perth, but preliminary observations would suggest excessive vibration may have caused failure of some of the internal componentry or connectors.

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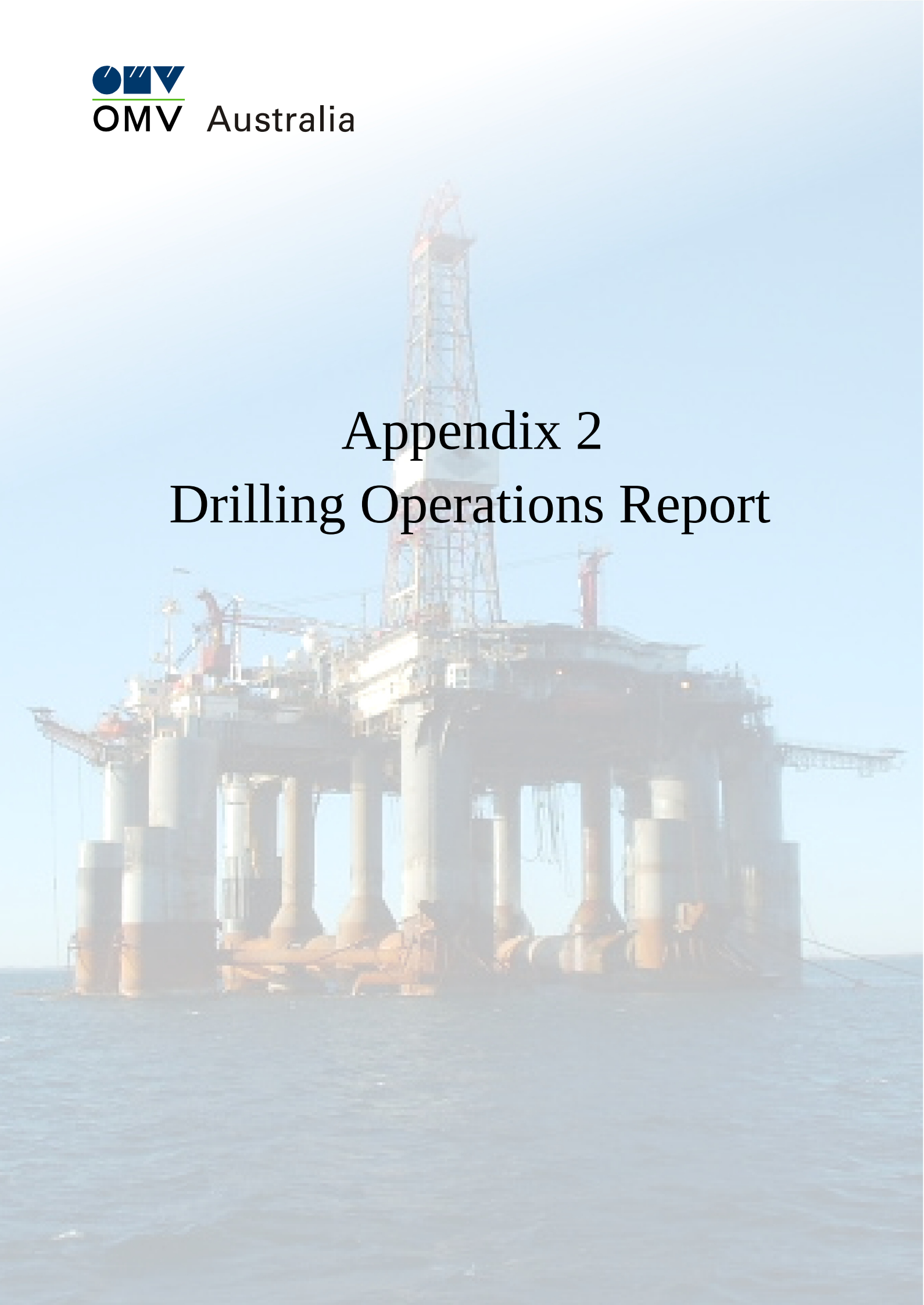
Signature _____
SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	:Operations Department
YELLOW	: Clients Representative

Signature _____
CLIENT REPRESENTATIVE

OMV Australia



Appendix 2
Drilling Operations Report

Drilling Summary

The Ocean Bounty came onto contract for Baleen-3 at 13:25 hrs, 23rd May 2002. Some 5½ days had been spent waiting on weather before first anchor was dropped. Continued bad weather slowed anchor handling before the rig was positioned over location and ballasted down. An ROV survey showed the seafloor to be clear and level.

The well was spudded at 14:00hrs, 24th May in 77.5 m RT of water. 36" hole was drilled to 112 mMDRT and 30" casing was set. In trying to release the casing running tool, the casing and permanent guide base were inadvertently picked up and several hours elapsed before the tool was recovered.

17½" hole was drilled to 336.0 mMDRT (334.9 mTVDRT), with kick-off at 173 m giving an inclination of 9.9° and an azimuth of 237.3° T at TD. No hole problems were encountered and 13-3/8" casing was run and set successfully with the shoe at 327.4 mMDRT.

Some 20 hours was lost during surface pressure testing of the horizontal Xmas tree. The BOP was then fully function tested on surface, landed and tested without problems. The 12¼" assembly drilled out the cements plugs, rathole and 3 m of new formation where a leak-off test was performed giving an equivalent mud weight of 1.74 sg.

Drilling continued to 458 m, but with angle difficult to maintain, the assembly was changed out to HWDP with 1.5° bend set on the motor and continued to 871 m. A high viscosity pill was spotted on bottom and the assembly retrieved. The 9-5/8" casing was run and set successfully with the shoe at 866.1 m.

A formation integrity test below the 9-5/8" casing shoe yielded an equivalent mud weight of 1.41 sg. The 8½" hole was drilled to 919 m where the top drive broke down and required 4½ hours to effect a repair. At 892 m, the inclination was recorded as 86.4° (target 91°). Drilling continued to 1352 m before backreaming to 1050 m. The assembly was tripped out to download and confidence test the MWD data. The bit and motor were also checked before running back in to 1165m for a sidetrack.

The geological sidetrack could not be performed at 1165 m due to a siderite stringer, and so the assembly was pulled back for the kick-off at 1137 m. Drilling continued to the section TD of 1555 m where the hole was circulated clean for completion.

6-5/8" sand screens and the 5½" completion string were run with no problems encountered. Coiled tubing was then rigged up to clean up and test the well. Several problems were encountered with the read out gauges before and during the operation. The coiled tubing hung up and would not pass 75.3 m, suspected to be the SSR isolation sleeve. The sleeve was recovered via slickline and the coiled tubing run back in hole to perform flow testing.

Once the flow test procedure had been completed, two failed attempts were made to set the 5¼" SSR plug. The plug was redressed twice before finally being set and pressure tested. All attempts to run a 5¾" SSR plug in the internal tree cap failed.

Approximately one day was spent waiting on weather, during which time the ROV could not be used. Once the weather had calmed, the ROV set protectors on the A and B ports (electric power supply), but failed to set the protector on the corrosion monitoring device.

The rig was released to Patricia-2 at 00:30hrs, 20th June 2002.

Drilling Fluids Recap

OMV

Baleen 3

Vic L21

Bass Strait

Development

Drilling
Fluids

M-I *L.L.C.*

ONE-TRAX

DRILLING FLUIDS DATA MANAGEMENT SYSTEM

Operator : OMV Australia
Well Name : Baleen # 3
Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Warehouse : Geelong
Contractor : Diamond Offshore

Spud Date : 24/05/2002
TD Date : 4/06/2002
Loc Code : 7001
Dist Engr : Dave Bennett
Sales Engr : Voytek Czarny
Sales Engr : Gordon Howie
M-I Well No. : Baleen3

Comments : Horizontal development well

Type	Size in	Depth m	TVD m	Hole in	MaxMW sp.gr.	Mud 1	Mud 2	Drilling Problem	Days	Cost $
Casing	30	112	112	36	1.04	Water-based	Water-based	None	1	5016.20
Casing	13.375	327.6	327.6	17.5	1.04	Water-based	Water-based	None	2	2527.70
Casing	9.625	866.08	677.8	12.25	1.16	Glycol System	KCL/Polymer	None	5	54476.29
Liner	7	1555	709	8.5	1.12	FLO-PRO			4	73170.36
C									15	18390.22

Total Depth : 1555 m TVD : 709 m Water Depth : 52.5 m Drilling Days : 27 Total Mud Cost : $ 153580

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1. DISCUSSION BY INTERVAL
2. DAILY DISCUSSION REPORT
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4. DAILY VOLUME SUMMARY SHEET
5. TOTAL MATERIAL COST
6. HYDRAULICS REPORT
7. DRILLING FLUIDS SUMMARY
8. PRODUCT CONSUMPTION
9. DAILY MUD REPORTS

DISCUSSION BY INTERVAL

DRILLING FLUIDS RECAP
BALEEN 3

INTRODUCTION

OMV Petroleum was the operator for the horizontal development well Baleen #3, drilled with the Diamond Offshore semi-submersible, Ocean Bounty spudded on the 24th May 2002.

The well was located in the Bass Strait in the permit VIC/L21 approximately 30 kilometres south of the Victorian town of Orbost. The location was latitude 38°00'21.04"S and longitude 148°26'34.44" E with a water depth of 55 meters and height of the rotary table above sea level being 26 meters. The well was vertically drilled for the first 2 intervals and deviated to 90 degrees in the 12¼:" section.

Baleen #3 was drilled to a depth of 1555m in 12 drilling days including drilling to 1352m and making a sidetrack from 1137m to 1555m. Total depth was reached at 1555m (TVD of 710m) on the 4th June 2002. The well was completed and a testing program carried out prior to suspending the well for later attachment to a pipeline.

DRILLING FLUIDS RECAP
BALEEN 3

Interval I **Interval II**	**77.5-112 meters** **112 – 336 meters**	**36" Hole** **17½" Hole**	**30" casing set at 112 m** **13 3/8" casing set at 328 m**

MUD TYPE : SEAWATER/HI VIS SWEEPS

HOLE PROBLEMS : None

MUD PROPERTIES :

Mud Weight : 1.04 SG
Viscosity : 100+sec/qt

OPERATIONS:

Baleen #1 was spudded on the 24th May 2002 with seawater/Gel hi-vis sweeps.

A 26" Smith bit with 36" hole opener fitted with 3x24 and 1x17 jets was used. Seabed was tagged at 77.5 meters and the section was drilled to 112 meters. While drilling 36" and 17½" sections, each stand was drilled with sea water and about 50 bbl of flocculated Hi Vis PHG sweep was pumped after the first and second single down followed by pumping 50 bbl of Hi Vis unflocculated PHG on connection. This allowed to clean the hole from the cuttings and facilitated running casing. The hole was good and no drag was observed on connection.

At TD of 36" interval at 112 m, the hole was displaced to 150 bbl of unflocculatd PHG followed by making a wiper trip to the sea bed and spotting 200 bbl of unflocculated PHG when on bottom, before pulling out of the hole for running 30 " casing.

At TD of 17½" interval at 366 m, the hole was displaced to 320 bbl of unflocculated PHG, then tripping out of the hole took place without making a short trip as the hole was good with no drag on each connection.

Both 30" and 13 3/8" casing was run without any problems.

MUD

An initial 1639 bbls of 40 lb/bbl pre-hydrated Gel (PHG) was prepared and allowed to hydrate. After mixing all agitators and mixing pumps were turned off to enhance hydration. While drilling, pit # 4 was designated for flocculation of the prehydrated gel by mixing three parts of PHG and one part of seawater with light treatment of one sack of Lime. Funnel Viscosity remained at more than 100 sec all the time. Such flocculated mud was used as a Hi Vis Sweeps at a rate of 100 bbl per stand and before tripping for sweeping the hole.

In addition to the mud program, 36 sacks of Calcium Chloride were used for mixing a cement water.

SOLIDS CONTROL:

In the 36” and 17½” hole sections, there was no need for solids control as the mud returns were to the sea bed.

OBSERVATIONS AND RECOMMENDATIONS:

Applied mud system still remains the only effective and economical option for drilling the top hole in similar geological formation.

DRILLING FLUIDS RECAP
BALEEN 3

Interval III	**328 - 871m TVD = 682 m**	**12¼" Hole section**	**9⅝" casing set at 866 m**

MUD TYPE : KCl/PHPA/Glycol

HOLE PROBLEMS : None

MAXIMUM DEGREE : 76.3 at 838 m

MUD PROPERTIES :

Mud Weight	**:**	**1.06- 1.16 sg**
Viscosity	**:**	**45 – 67 sec/qt**
Plastic Viscosity		**12 – 18 cP**
Yield Point	**:**	**21-39 lb/100sqft**
6 rpm	**:**	**8-14**
Filtrate	**:**	**4.6 – 6.4 ml**
KCL		**5.0 – 6.0 % by wt**
PHPA		**0.6 – 1.0 ppb**
Glycol		**3.0 % by Vol.**

Rheology at 120 F and from Flow Line

OPERATIONS:

The BOP's was installed and tested and the 12.1/4 BHA with Reed bit was run to tag cement at 298.4 meters. The float, cement and shoe were drilled out and the shoe track cleaned out pumping seawater and Hi Vis sweeps of prehydrated gel left over from the previous interval. The well was displaced to 1.06 SG KCl/PHPA/Glycol mud at 340 m with 50 bbl PHG spacer pumped ahead of new mud. Then, a formation integrity test was performed to 1.74 SG EMW.

Drilling 12¼" hole resumed from 340m to 458m. Because not enough angle was reached, the bit was pulled out and the angle changed from 1.15 to 1.5 deg. Drilling continued from 514m with reaming from 443 to 488 m. After first 8 hours of drilling, the 12¼" bit reached 542m and built a maximum angle of 38.6 deg. The hole remained good on connection and while tripping.

Directional drilling proceeded from 542 to 855m with building an angle to 76.3 deg at 838m. At 855m gas in the amount of 9% was circulated out followed by drilling to TD of 871m and circulating out 21% of gas. A decision was made to increase the mud weight to 1.15 SG with Barite and after circulating hole clean to make a wiper trip to 13⅜" shoe. After wiper trip, the hole was circulated clean and 50 bbl Hi Vis pill was spotted on bottom followed by pulling out of the hole and running 9⅝" casing without any hole problems.

The cementing job on 9⅝" casing was conducted as per OMV program and the BOP's stack tested before running into the hole with 8½" bit.

DRILLING FLUIDS RECAP
BALEEN 3

MUD:

An initial 1354 bbls of 5% KCl / 0.6 ppb PHPA / 3% Glycol mud was prepared at 1.07 SG and displaced to the hole while drilling new formation. The shale shakers dressed with 84 meshes handled the flow rate without problems.

Soon additional premix of 1.8 ppb PHPA was blended slowly to the active to provide firm cuttings over the shakers. As it was unweighted and used as dilution, no solids control equipment was used.

To bring 6 rpm readings to more than 12 and control filtration below 8 ml, a 2.2 ppb Duotec / 2.2 ppb Pac UL polymer premix was added to the active mud along with 6 sacks of Duotec added directly to the active system.

The result of this treatment produced API 30 min filtration at 4.6 – 6.4 ml and 6 rpm readings in the range of 7 - 14 as per sample from the flow line and rheology measured at 120 F.

At TD of 871m, the whole active mud was weighted up with Barite from 1.09 SG to 1.16 SG as the gas was monitored in the wellbore at a level of 21%

360 bbl of KCL/PHPA/Glycol mud was left to drill out cement on the slug.

SOLIDS CONTROL:

The shakers were dressed initially with 10/84 mesh without significant losses, then to 10 / 120 mesh on one shaker. The Desilter was not required as the unweighted premix was added.

OBSERVATIONS AND RECOMMENDATIONS:

- A PHPA level of 1.0 ppb is probably enough to drill these short shallow formations.
- The hole cleaning regime based on 6 rpm at 8 to 12 was adequate provided the sample was measured at 120 F and from the flow line.
- Proposed inhibition at 5-6% by wt of KCL and 3% by vol of Glycol appeared to be sufficient as the MBT was max. 5 ppb of Bentonite equivalent.

DRILLING FLUIDS RECAP
BALEEN 3

Interval III	**866 – 1352 m TVD = 692 m**	**8½" Hole section**	**7" Liner set at 830 m**
Interval IV	**1137 – 1555 m TVD = 709 m**	**Sidetrack**	

MUD TYPE : Flo-Pro

HOLE PROBLEMS : Sidetrack from 1137 m due to entering Latrobe Coarse Clastic Group with possible H2S

MAXIMUM DEGREE : Horizontal section

MUD PROPERTIES :

Mud Weight	**:**	**1.11 - 1.22 sg**
Viscosity	**:**	**55 – 84 sec/qt**
Plastic Viscosity		**12 – 15 cP**
Yield Point	**:**	**35 - 44 lb/100sqft**
6 rpm	**:**	**18 - 22**
LSRV1	**:**	**50180 - 78600**
LSRV2	**:**	**55120 - 91200**
LSRV3	**:**	**56200 - 91500**
Filtrate	**:**	**4.6 – 5.0 ml**
KCL	**:**	**15.0 % by wt**
Drill Solids	**:**	**0.1 – 6.0**

Rheology at 120 F and from Flow Line

OPERATIONS:

After testing BOP's stack, the 8½" Reed bit was run into the hole to tag cement at 842 m and drilled out the same with old mud circulated on the slug pit. At 873 m, a 50 bbl Hi Vis pill was pumped and the hole displaced to Flo-Pro mud. FIT was performed to 1.46 SG and drilling resumed from 873 to 919 m when a TDS had to be repaired.

Drilling continued from 919 to 1352m without any hole problems. Hole was good on connection. At that time decision was made to log from 1050-1200 and pulled out of the hole to make an interpretation of logs.
The decision was made to run in the hole and
make a kick off from 1137m to sidetrack Baleen 3 from different position.

Drilling 8½"" hole resumed from 1137 to 1555 m with Flo-Pro mud used so far.

At TD, the hole was circulated clean and a wiper trip was made to the shoe without any incidents. At TD the following procedure took place:

25 bbl of Hi Vis KCL brine was pumped and 190 bbl of Flo-Pro Solids Free was spotted on bottom of the hole displaced with active mud. Then, the bit was tripped to 760 m and the following clean up pills were pumped:

24 bbl KCl brine, 50 bbl surfactant pill followed by 25 bbl KCL brine base viscouse pill displaced with uninhibited KCL brine. Thereafter, pulling out of the hole took placed without any problems.

After running the completion sand screens, the open hole was displaced to Wellzyme A pill and the packer was set, followed by tripping out for running 5½" tubing and well completion.

MUD:

Initially, 1440 bbl of Flo-Pro mud was made up using the following formulation:

Drill water as required	ppb
Defoam A	0.1
KOH	0.3
Sodium Bicarbonate	0.2
Glute 25	0.2
KCl	45.2
Flo-Vis Plus	2.8
Dualflo	3.3
Omyacarb 1	1.6
Omyacarb 8	12.1
Omyacarb 10	1.2

The mud properties of such formulation were recorded as follows:

MW	=	1.11 SG (as requested by OMV Rep. Due to gas presence in 12¼" interval)
PV	=	13 cP
YP	=	40 lb/100 ft2
GS	=	18 / 22 lb / 100 ft2
Rheology	at	120 F
Q600	=	66
Q300	=	53
Q200	=	47
Q100	=	37
Q6	=	20
Q3	=	18
LSRV1	=	75200 cP
LSRV2	=	89120 cP
LSRV3	=	91 500 cP

A Flo-Pro system remained very stable from 866 to 1352m with no significant change on rheology side. Also, MBT was stable and monitored as 1.25 to 4.5 ppb Bentonite equivalent. However, mud weight drifted from 1.11SG to 1.17 SG.

From drilling point of view, the mud performed well, as no problems were recorded on connection or any trips made during drilling a horizontal section.

In a result of unexpected sidetrack, the mud volume and chemicals on the rig site did not allow to build a new system to drill from a new kick off point of 1137 m, therefore, the Flo-Pro mud with mud weight of 1.17 SG and included fine solids was used for drilling ahead. However, a new premix of 1.09 SG was added in attempt to control MW and MBT. The latter drifted to 5 ppb of Bentonite equivalent. Apart from that drill solids were 4 % by volume.

The main focus for mud treatment was put on keeping LSRV above 60000 cP and a filtration below 5 ml. It was achieved by constant addition of premixed Flovis Plus and Duoalflo polymers.

After making a sidetrack at 1165 m and drilling new hole to 1550 m, mud properties changed due to fine solids incorporation. Consequently, mud weight drifted to 1.22 sg and drill solids reached 6% by vol., while MBT jumped to 7.5 ppb. However, the low shear end rheology remained stable with LSRV more than 60 000 cP by the end of the interval.

At TD the following clean up spacers were mixed and pumped:

- 25 bbl KCl brine
- 190 bbl Flo-Pro Solids Free – displaced with mud (to cover open hole and sand screen volume)
- 25 bbl Hi Vis KCl spacer
- 50 bbl Surfactant pill
- 25 bbl brine base spacer

Above spacer were displaced with uninhibited KCl brine formulated to 1.12 SG (9.3 ppg).

About 690 bbl of 1.22 SG Flo-Pro mud was retrived and saved in the storage tanks as a “kill mud”.

After running the completion screens, the open hole was displaced to Wellzyme A pill, mixed by adding 2.5% by volume of Wellzyme A to existing filtered (to 25 NTU) 1.12 SG KCL brine. The Flo-Pro SF returns were dumped after reaching the surface.

After running tubing and before stabbing into PBR, the casing was displaced to 1.12 SG inhibited KCL brine. The inhibition was provided by addition of Glute-25 at 0.08 Lpb and Conqor 303 A at 0.013 bpb as well as OS-1 at 0.55 ppb with Caustic Soda at 0.5 ppb.

SOLIDS CONTROL EQUIPMENT

Only Four VSM 100 Shale Shakers were used for solids control. They were dressed with 120 and 145 mesh screens and handle the flow rate of 600 gpm.

Desliter was used only for two one hour as way of dumping mud as the sandtraps could not be used.

OBSERVATIONS AND RECOMMENDATIONS

1. It is recommended to deliver saturated KCL brine for job like this one, when 97 Big Bags of KCL were mixed during the well.

2. There is no better mud than Flo-Pro one for drilling horizontal section in similar geological area. Although drilling two horizontal section (486 m and 390 m) using the same mud happened to be enough for the mud system as the solids build up approached 6% by vol., the efficient performance of Flo-Pro system measured by unproblematic drilling and tripping operations is fully justified in the case of Baleen 3.

DAILY DISCUSSION REPORT

Drilling Fluids	Operator : OMV Australia	Field/Area : Vic / L21	Daily Discussion
	Well Name : Baleen # 3	Description : Development	
	Contractor : Diamond Offshore	Location : Bass Strait	M-I Well : **Baleen3**

24/05/2002	TD = 111.5 m	Day 1

Rigged up.Made up 26" bit with 36" HO and RIH to tag SB at 77.5 m. Drilled 36" hole to TD=111.5 m. Swept hole with 100 bbl HiVis flocculated mud.
Displaced hole to Hi Vis PHG.Made a wiper trip to 80 m.Run back.Fill =2 m.Spotted 200 bbl of unflocculated HiVis PHG.POOH for casing.Run and cemented 30" casing.
Mixed 1639 bbl of mud.Drilled with seawater and pumping high viscosity sweeps at a rate of 50 bbl every 10 m.
Used Lime for flocculation.
Used 16 sx of CaCl2 for cementing.

Mixed 1639 bbl of mud.

25/05/2002	TD = 336 m	Day 2

Finished cemeting job.P/up 17.1/2" bit.RIH to tag cement at 109 m.Drilled out shoe track and drilled 17.1/2" hole from 112 m to TD 336 m. Hole good on connection with no drag.Pumped 100 bbl Hi Vis sweep.Spotted 320 bbl of unflocculated Hi Vis PHG.POOH.No drag-hole good.Run 13.3/8" casing.
Mixed PHG. Pumped HiVis Sweeps as required.
Used CaCL2 for cementing.

Mixing PHG.Pumping Hi Vis flocculated PHG sweeps.Displaced hole to unflocculated PHG before POOH for running 13.5/8" csg

26/05/2002	TD = 336 m	Day 3

Finished cementing job as per program.
Rigged up and run SST. Pressure tested connector.No success.
Dumped and cleaned tanks.Left 170 bbl of PHG for drilling out.
Start mixing new mud for the next interval.

Dumped and cleaned tanks.Mixing new mud.

27/05/2002	TD = 336 m	Day 4

Working on SST.Running BOP stack.
Mixing KCL/PHPA/Glycol mud in progress.Mud check will be run after shearing mud.

Mixing KCL/PHPA/Glycol mud.

28/05/2002	TD = 336 m	Day 5

Run BOP stack and tested same.M/up BHA and RIH to drill out cement.
Shearing mud.Dressed shakers.Run mud check on cool mud at 68 F and 120 F before displacement.

Sheared new mud.

29/05/2002	TD = 542 m	Day 6

M/up 12.1/4" BHA and RIH to tag cmt at 298.4 m. Drilled out with sea water. Pumped 50 bbl PHG spacer and displaced to new mud at 340 m. Performed FIT to EMW = 1.74 SG. Drilled to 458 m. Not enough angle.Slug.POOH.Hole good.Changed angle from 1.15 to 1.5 and drilled to 514 m. POH to 443 m. Reamed to 488. Drilled to 542 m.Hole good on connection.
Max angle=38.6
Drilled out cement with sea water pumping HiVis PHG sweeps as required.
Adding fresh premix of PHPA. Adding Duotec to bring 6 rpm readings up. Used Barite for slug.

Drilled out cement with sea water pumping Hi Vis PHG sweeps.Displaced to KCL/PHPA/Glycol mud.
Adding PHPA / Duotec.

30/05/2002	TD = 871 m	Day 7

Directional drilling 542 - 855 m.Circulated out 9% of gas.
Drilled 855 to TD 871 m.Circulated out 21% of gas.Increased MW to 1.15 SG with Barite. Made a wiper trip before running 9.5/8" csg.Hole good.
Max. angle=76 deg

Keep adding Duotec to increase 6 rpm > 12.
Added Glydril to maintain 3 % in active.
Added Polyplus to encapsulate cuttings.
Weighted mud to 1.15 SG with Barite-Mud weight established at 1.16 SG.

Keep adding Duotec to increase 6 rpm readings.
Added Glydril and Polyplus premix.Weighted up to 9.6 ppg w/Barite.

of

31/05/2002	TD = 871 m	Day 8

Finished wiper trip.POOH.R/up and Run 9.5/8" casing.Hole good.Cementing job as per program. Testing seal assembly and BOP.
Dumped old mud and cleaned pits.Started mixing Flo-Pro system. Barite usage for yesterday weighting up.

Mixing Flo-Pro system.

1/06/2002	TD = 919 m	Day 9

Finished testing BOP and surface equipment. P/up 8.1/2" bit and RIH to tag cement at 842 m. Drilled out cement with old mud. Drilled to 873 m. Pumped 50 bbl Hi Vis pill and displaced to Flo-Pro mud. Performed FIT to 1.46 SG.Drilled 8.1/2" hole to 919 m. Trouble shoot TDS. Worked on TDS fault.
Drilled out with old mud.Displaced to Flo-Pro.
Dumped old mud.

Drilled out with old mud.Displaced to Flo Pro at.
Dumped old mud.

2/06/2002	TD = 1287 m	Day 10

Repaired TDS.Drilled 919-1110 m.Circulated sample out.Drilled to 1287 m. Hole good on connection. Max.gas 11%. Max angle=93.7 deg
Adding premix to maintain Low shear range viscosity for cleaning hole. Mixed 236 bbl of 1.15 SG Brine as per Co.Man instruction.

Adding Premix to maintain LSRV.

3/06/2002	TD = 1144 m	Day 11

Drilled 1287 to TD 1352 m. CBUP.POH to 1050. Circulated for logs 1050-1200 m.POOH.Inspect motor.Decision was made to RIH to kick off 1165 m.
No success.POH to 1137 m to kick off to make a sidetrack.
Drilled 8.1/2" hole 1137 to 1144 m.
Added Glute to prevent polymers against bacteria attack.Added premix of 1.08 SG KCL polymer mud to control MW and build up of fine solids.

Pretreated mud with Glute-25 against bacteria attack.Added fresh premix to control MW and build up of fine solids.

4/06/2002	TD = 1555 m	Day 12

Drilled 1144 to TD= 1555 m. Circulated hole clean.Made a wiper trip to 9.5/8" shoe.
Dumped 120 bbl and added fresh premix to active along with running Desilter to cut MW.
Mixed clean up pills.

Run Desilter and dump/add new premix to cut MW below 1.2 SG.
Mixed clean up pills.

5/06/2002	TD = 1555 m	Day 13

POOH 1027-840 m.Flow-check.RIH 840-1555.CBU. Pumped 20 bbl KCl brine.Spotted 190 bbl Flo-Pro SF on bottom.POH to 760 m.Pumped 25 bbl HiVis spacer,50 bbl surfactant pill and 25 bbl brine Hi Vis spacer.Circulated hole clean to uninhibited KCL brine.POOH.R/up and run the completion screens.
Dumped and cleaned pits.Saved 690 bbl of Flo-Pro in storage.Mixing 1.12 SG KCL brine.

Dumped and cleaned pits. Saved 700 bbl of Flo-Pro in storage pits.
Mixing 1.12 SG KCL Brine.

6/06/2002	TD = 1555 m	Day 14

RIH with completion screens.Circulated liner volume with uninhibited brine.Displaced Wellzyme A pill into the open hole.Released setting ball.Pumped the ball down to the seat.Set the SLZXP hanger.Pressure tested surface lines.POOH for running completion.
Mixed 1.12 SG KCL brine and filtered.
Mixed 176 bbl of Wellzyme A pill.

Mixed 1.12 SG KCL brine and filtered.
Mixed Wellzyme A pill.

7/06/2002	TD = 1555 m	Day 15

Well completion.
Filtered KCL brine.
Inventory adjustment: Received 48 sx of Omyacarb 40, not 96 sx.

Filtered KCL brine.

8/06/2002	TD = 1555 m	Day 16

Well completion and running coil tubing,
Made up inhibited KCL brine and pumped to fill the casing.Returned 1190 sx of Barite.

Displaced casing to inhibited KCl brine.

9/06/2002	TD = 1555 m	Day 17

Well Testing in progress.
House keeping in the sackroom.

House keeping in the sackroom.

10/06/2002	TD = 1555 m	Day 18

Well testing.
Checked Mud Inventory.

Checked mud inventory.

11/06/2002	TD = 1555 m	Day 19

The well was opened and the testing program was begun.
Continue to filter the brine in the active between the pits until filters are used up. Filtering not very efficient.

12/06/2002	TD = 1555 m	Day 20

Continued flowing the well according to test program.
Filter brine through filters from pit 2 to pit 4. Test the parameters of water samples as required.

Flowing well according to program.

13/06/2002	TD = 1555 m	Day 21

Continue with well testing program.
Filter brine with little success.

Well test program.

14/06/2002	TD = 1555 m	Day 22

Completed well testing program and commenced suspension of the well.
Turbidity of KCl in pits = 6000 NTU's. The 300 bbls of brine in the pits will be retained and used as either mud base or to be refiltered. The reserve mud retained was dumped due to variable deck load restrictions for the rig move.

Completed well test and commence suspension.

15/06/2002	TD = 1555 m	Day 23

Completing well suspension.
Mixed 110 bbls High Viscosity mud

Completing well suspension

16/06/2002	TD = 1555 m	Day 24

Set Plugs, Unlatch B.O.P.s and move rig off location. Pull B.O.P.s and land on skid beams. Reposition rig. Run corrosion cap.
Remaining mud volume and Brine transferred to Standby boat.

Set Plugs, Pull B.O.P.s Run corrosion cap.

17/06/2002	TD = 1555 m	Day 25

Repair rig electrical fault. W.O.W.

Repair rig electrical fault. W.O.W.

18/06/2002	TD = 1555 m	Day 26

Wait on Weather

Wait on Weather

19/06/2002	TD = 1555 m	Day 27

Handling Anchors. Jump ROV.

Handling Anchors

COST
BY
INTERVAL

Drilling Fluids

PRODUCT SUMMARY

Operator : OMV Australia
Well Name : Baleen # 3
Contractor : Diamond Offshore
Field/Area : Vic / L21
Description : Development
Location : Bass Strait

SUMMARY OF PRODUCT USAGE FOR INTERVAL 24/05/2002 - 24/05/2002, 111.5 - 111.5

WATER-BASED MUD	SIZE	AMOUNT	UNIT COST ($)	PROD COST ($)
1 - Gel Bulk	100 LB BG	570	8.12	4628.40
2 - Calcium Chloride	25 KG BG	16	9.17	146.72
3 - Caustic Soda	25 KG DM	11	17.32	190.52
4 - Lime	25 KG BG	2	6.64	13.28
5 - Soda Ash	25 KG BG	4	9.32	37.28

SUB TOTAL:	5016.20
TAX:	0.00
WATER-BASED MUD TOTAL COST:	5016.2

TOTAL MUD COST FOR INTERVAL: 5016.2

Drilling Fluids

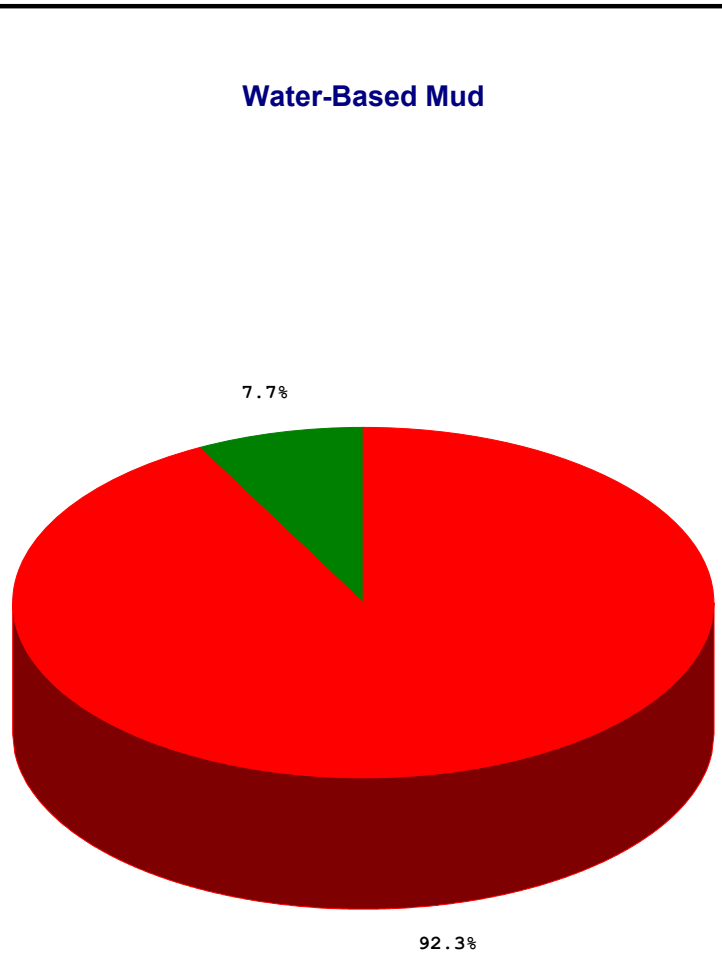
ONE-TRAX

Operator : OMV Australia
Well Name : Baleen # 3
Field/Area : Vic / L21
Description : Development
Location : Bass Strait

Cost Analysis

BREAKDOWN OF COST BY PRODUCT GROUP 24/05/2002 - 24/05/2002, 77 - 112 m

Water-Based Mud Products	$	%
1-Common Chemicals	387.80	7.7
2-Visc/Fluid Loss	4628.40	92.3
Water-Based Mud Total Cost: $	5016.20	100.0



Drilling Fluids

PRODUCT SUMMARY

Operator : OMV Australia
Well Name : Baleen # 3
Contractor : Diamond Offshore
Field/Area : Vic / L21
Description : Development
Location : Bass Strait

SUMMARY OF PRODUCT USAGE FOR INTERVAL 25/05/2002 - 25/05/2002, 336 - 336 m

WATER-BASED MUD	SIZE	AMOUNT	UNIT COST ($)	PROD COST ($)
1 - Gel Bulk	100 LB BG	279	8.12	2265.48
2 - Calcium Chloride	25 KG BG	18	9.17	165.06
3 - Caustic Soda	25 KG DM	3	17.32	51.96
4 - Lime	25 KG BG	4	6.64	26.56
5 - Soda Ash	25 KG BG	2	9.32	18.64

SUB TOTAL:	2527.70
TAX:	0.00
WATER-BASED MUD TOTAL COST:	2527.7

TOTAL MUD COST FOR INTERVAL: 2527.7

Drilling Fluids

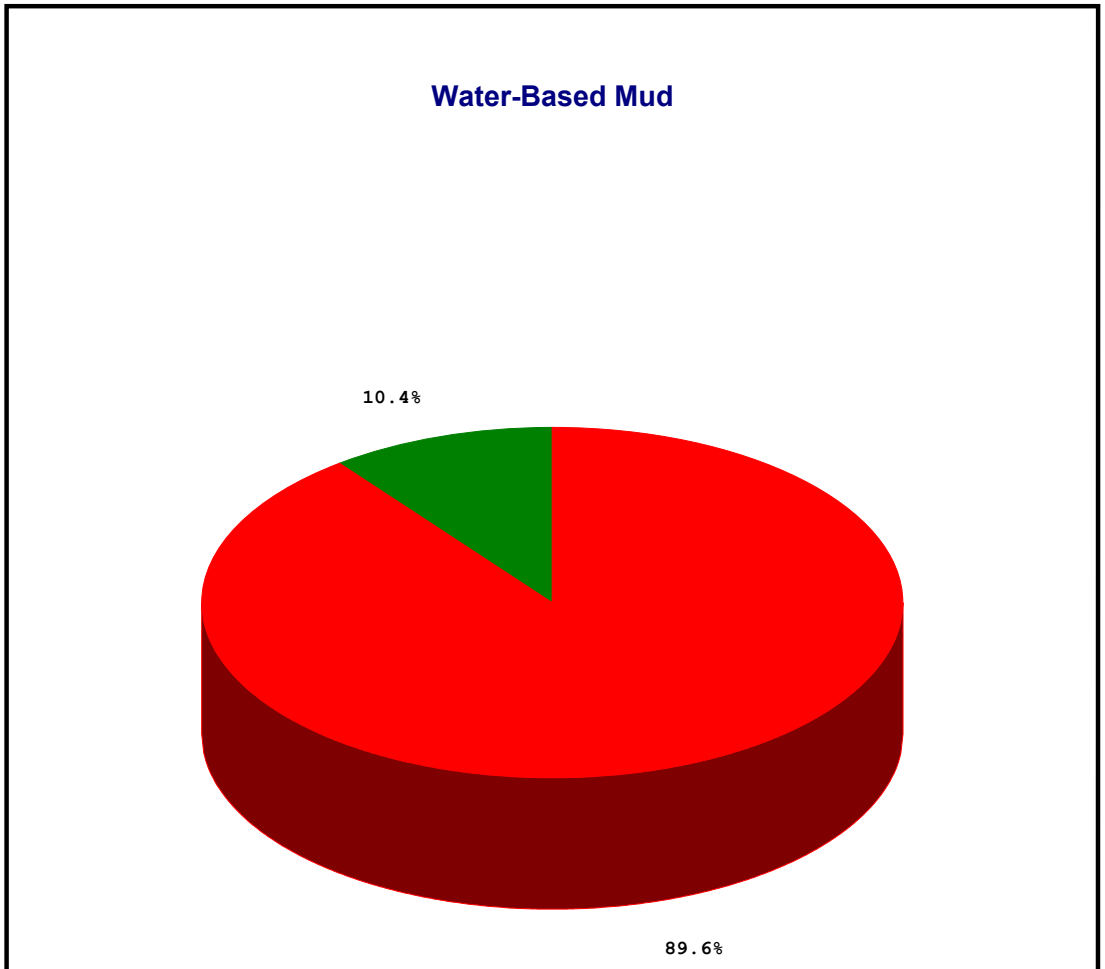
ONE-TRAX

Operator : OMV Australia
Well Name : Baleen # 3
Field/Area : Vic / L21
Description : Development
Location : Bass Strait

Cost Analysis

BREAKDOWN OF COST BY PRODUCT GROUP 25/05/2002 - 25/05/2002, 112 - 336 m

Water-Based Mud Products	$	%
1-Common Chemicals	262.22	10.4
2-Visc/Fluid Loss	2265.48	89.6
Water-Based Mud Total Cost: $	2527.70	100.0



Drilling Fluids

PRODUCT SUMMARY

Operator : OMV Australia
Well Name : Baleen # 3
Contractor : Diamond Offshore
Field/Area : Vic / L21
Description : Development
Location : Bass Strait

SUMMARY OF PRODUCT USAGE FOR INTERVAL 26/05/2002 - 30/05/2002, 336 - 871 m

WATER-BASED MUD	SIZE	AMOUNT	UNIT COST ($)	PROD COST ($)
1 - Barite Bulk	100 LB BG	678	6.30	4271.40
2 - Duotec	25 KG BG	66	192.61	12712.26
3 - Glydril LC	208 KG DM	42	621.94	26121.48
4 - OS-1	25 KG BG	12	31.94	383.28
5 - Polyplus Dry	25 KG BG	30	70.41	2112.30
6 - Polypac UL	25 KG BG	36	92.93	3345.48
7 - KCL-Geel	1 TN BG	13	274.45	3567.85
8 - Potassium Hydroxide	25 KG DM	12	28.96	347.52
9 - Sodium Bicarbonate	25 KG BG	12	9.61	115.32

SUB TOTAL:	52976.89
TAX:	0.00
WATER-BASED MUD TOTAL COST:	52976.89

TOTAL MUD COST FOR INTERVAL: 52976.89

Drilling Fluids

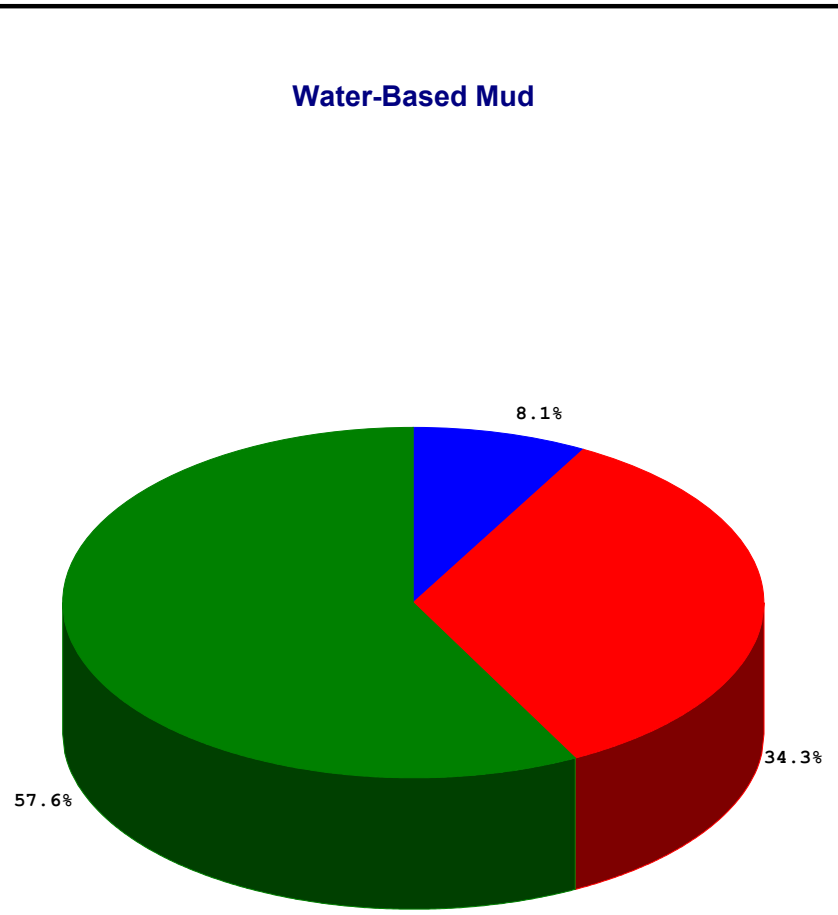
ONE-TRAX

Operator : OMV Australia
Well Name : Baleen # 3
Field/Area : Vic / L21
Description : Development
Location : Bass Strait

Cost Analysis

BREAKDOWN OF COST BY PRODUCT GROUP 26/05/2002 - 30/05/2002, 336 - 871 m

Water-Based Mud Products	$	%
1-Common Chemicals	30535.45	57.6
2-Visc/Fluid Loss	18170.04	34.3
3-Weight Material	4271.40	8.1
Water-Based Mud Total Cost: $	52976.89	100.0



Drilling Fluids

PRODUCT SUMMARY

Operator : OMV Australia
Well Name : Baleen # 3
Contractor : Diamond Offshore
Field/Area : Vic / L21
Description : Development
Location : Bass Strait

SUMMARY OF PRODUCT USAGE FOR INTERVAL 1/06/2002 - 4/06/2002, 919 - 1555 m

WATER-BASED MUD	SIZE	AMOUNT	UNIT COST ($)	PROD COST ($)
1 - Dual-Flo	50 LB BG	121	94.75	11464.75
2 - Duotec	25 KG BG	2	192.61	385.22
3 - Defoam A	25 LT DM	4	56.17	224.68
4 - Flo-Vis Plus	25 KG BG	91	421.14	38323.74
5 - Glute-25	25 LT DM	9	67.75	609.75
6 - OS-1	25 KG BG	1	31.94	31.94
7 - KCL-Geel	1 TN BG	32	274.45	8782.40
8 - Potassium Hydroxide	25 KG DM	5	28.96	144.80
9 - Safe Surf WN	200 KG DM	4	933.30	3733.20
10 - Sodium Bicarbonate	25 KG BG	6	9.61	57.66
11 - Omyacarb 1	25 KG BG	42	6.04	253.68
12 - Omyacarb 8	25 KG BG	336	6.04	2029.44
13 - Omyacarb 10	25 KG BG	30	6.04	181.20
14 - Flossy Salt	25 KG BG	96	6.50	624.00
15 - KCL-Welsh	1 TN BK	22	287.45	6323.90

SUB TOTAL:	73170.36
TAX:	0.00
WATER-BASED MUD TOTAL COST:	73170.36

TOTAL MUD COST FOR INTERVAL: 73170.36

Drilling Fluids

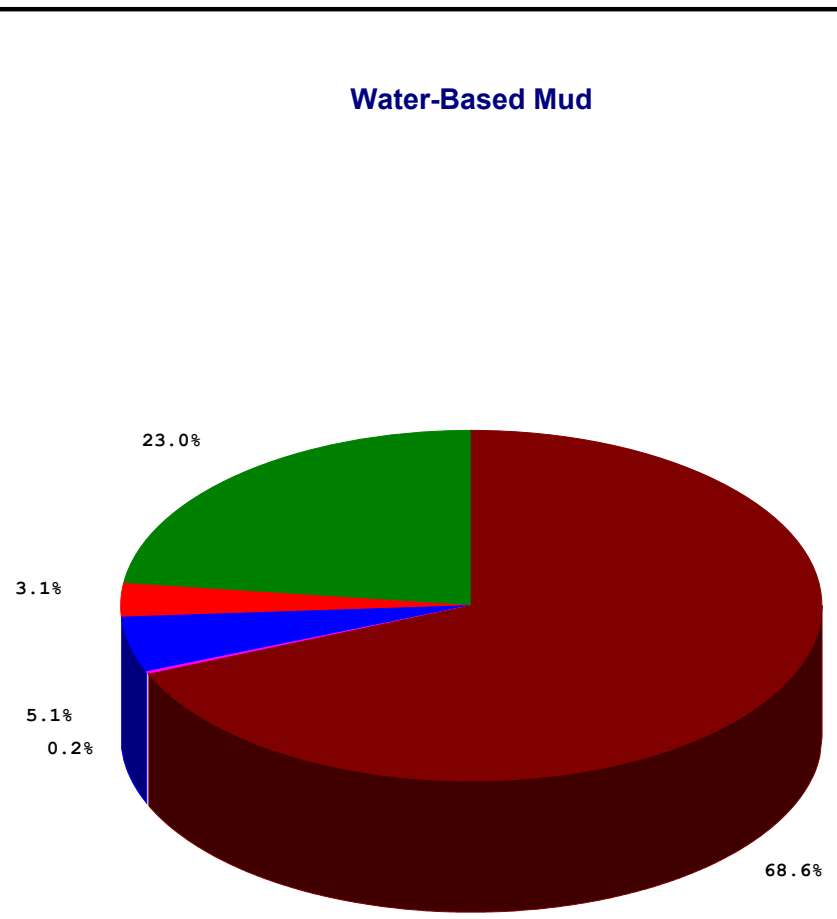
ONE-TRAX

Operator : OMV Australia
Well Name : Baleen # 3
Field/Area : Vic / L21
Description : Development
Location : Bass Strait

Cost Analysis

BREAKDOWN OF COST BY PRODUCT GROUP 1/06/2002 - 4/06/2002, 871 - 1555 m

Water-Based Mud Products	$	%
1-Common Chemicals	16799.13	23.0
2-Lost Circ Material	2283.12	3.1
3-Lubricant	3733.20	5.1
4-Plastic-Wrap/Pallet	181.20	0.2
5-Visc/Fluid Loss	50173.71	68.6
Water-Based Mud Total Cost: $	73170.36	100.0



Drilling Fluids

PRODUCT SUMMARY

Operator : OMV Australia
Well Name : Baleen # 3
Contractor : Diamond Offshore
Field/Area : Vic / L21
Description : Development
Location : Bass Strait

SUMMARY OF PRODUCT USAGE FOR INTERVAL 5/06/2002 - 19/06/2002, 1555 - 1555 m

WATER-BASED MUD	SIZE	AMOUNT	UNIT COST ($)	PROD COST ($)
1 - Caustic Soda	25 KG DM	3	17.32	51.96
2 - Duotec	25 KG BG	5	192.61	963.05
3 - Defoam A	25 LT DM	10	56.17	561.70
4 - Flo-Vis Plus	25 KG BG	2	421.14	842.28
5 - Glute-25	25 LT DM	1	67.75	67.75
6 - OS-1	25 KG BG	3	31.94	95.82
7 - KCL-Geel	1 TN BG	30	274.45	8233.50
8 - Conqor 303A	55 GA DM	3	192.72	578.16
9 - Wellzyme A	55 GA DM	4	1749.00	6996.00

SUB TOTAL:	18390.22
TAX:	0.00
WATER-BASED MUD TOTAL COST:	18390.22

TOTAL MUD COST FOR INTERVAL: 18390.22

Drilling Fluids

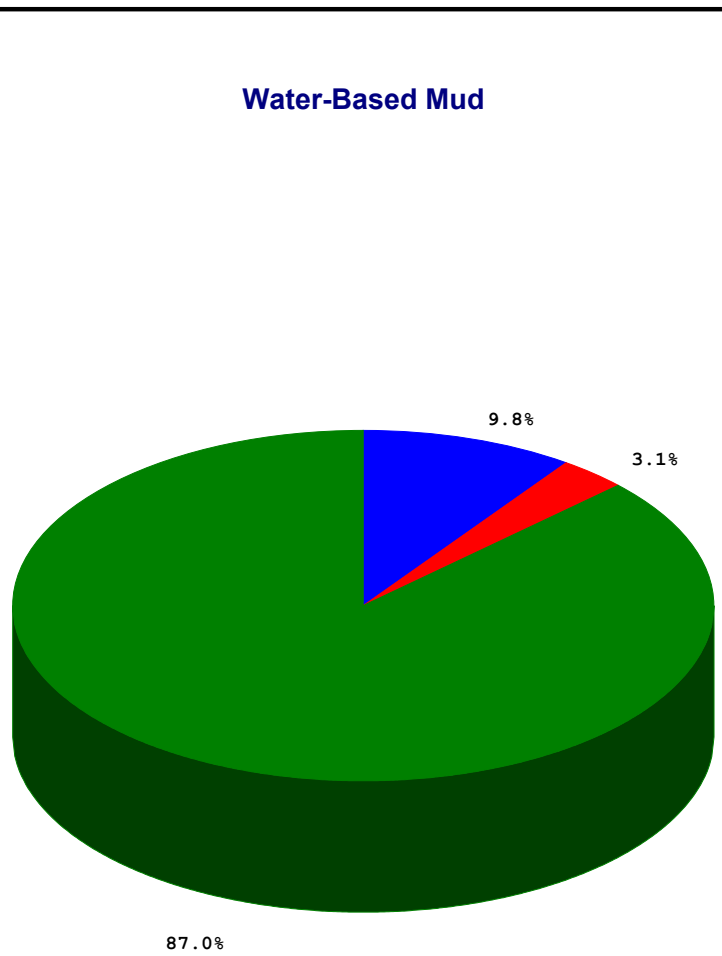
ONE-TRAX

Operator : OMV Australia
Well Name : Baleen # 3
Field/Area : Vic / L21
Description : Development
Location : Bass Strait

Cost Analysis

BREAKDOWN OF COST BY PRODUCT GROUP 5/06/2002 - 19/06/2002, 1555 - 1555 m

Water-Based Mud Products	$	%
1-Common Chemicals	16006.73	87.0
2-Lubricant	578.16	3.1
3-Visc/Fluid Loss	1805.33	9.8
Water-Based Mud Total Cost: $	18390.22	100.0



DAILY VOLUME
SUMMARY SHEET

OMV Australia Pty Ltd

Baleen 3 Volume Accounting

36" & 17.1/2" Hole - Seawater with High Vis Sweeps

	Mud Volume Status (bbl)					Mud Volume Built (bbl)					Mud Volume Lost (bbl)						
Date 2002	Depth	Hole	Surf Active	Res	Total Vol	Water	Mud Built	Barite	Daily Total	Cum Built	Solids Equip	Surf	Sweep/ Spots	Dump	Casing Plugs	Daily Total	Cummul Lost
24-May	111.5			971	971	1576	63		1639	1639			668			668	668
25-May	336			458	458	500	31		531	2170			1044			1044	1712
26-May	336			170	170				0	2170				288		288	2000
27-May	336			170	170				0	2170						0	2000

Transferred 170 bbl of PHG to drill out cement

12.1/4" Hole - KCL / PHPA / Glycol

	Mud Volume Status (bbl)					Mud Volume Built (bbl)					Mud Volume Lost (bbl)						
Date 2002	Depth	Hole	Surf Active	Res	Total Vol	Water	Mud Built	Barite	Daily Total	Cum Built	Solids Equip	Surf	Dump or Sweeps	Hole	Casing Plugs	Daily Total	Cummul Lost
27-May	336			1524	1524		1354		1354	1524						0	0
28-May	336			1524	1524				0	1524						0	0
29-May	542	302	716	465	1483		237	7	244	1768	115		170			285	285
30-May	871	453	579	365	1397	30		6	36	1804	122					122	407
31-May	871	290	414	163	867				0	1804	96		433			529	936

8.1/2" Hole - Flo-Pro Drill-in Fluid

	Mud Volume Status (bbl)					Mud Volume Built (bbl)					Mud Volume Lost (bbl)						
Date 2002	Depth	Hole	Surf Active	Res	Total Vol	Water	Mud Built	Barite	Daily Total	Cum Built	Solids Equip	Surf	Dump	Hole	Casing Plugs	Daily Total	Cummul Lost
1-Jun	871				0				0	772			772			772	772
1-Jun	919	279	653	508	1440		1440		1440	2212						0	772
2-Jun	1287	355	625	526	1506	216	31		247	2459	148		33			181	953
3-Jun	1144	326	645	491	1462	100	2		102	2561	96			50		146	1099
4-Jun	1555	411	773	731	1915	650	53		703	3264	45		205			250	1349
5-Jun	1555	447	80	692	1219				0	3264			696			696	2045
6-Jun	1555	447	399	1177	2023	844	92		936	4200			132			132	2177
7-Jun	1555	414	432	1177	2023				0	4200						0	2177
8-Jun	1555	447	268	988	1703		4		4	4204			324			324	2501
9-Jun	1555	447	268	988	1703				0	4204						0	2501
10-Jun	1555	447	268	918	1633				0	4204			70			70	2571
11-Jun	1555	447	268	918	1633				0	4204						0	2571
12-Jun	1555	447	268	918	1633				0	4204						0	2571
13-Jun	1555	447	268	918	1633				0	4204						0	2571
14-Jun	1555	447	414		861				0	4204			772			772	3343
15-Jun	1555	447	414	110	971		110		110	4314						0	3343
16-Jun	1555	447	30		477				0	4314			494			494	3837
17-Jun	1555	447	30		477				0	4314						0	3837
18-Jun	1555	447			447				0	4314			30			30	3867
19-Jun	1555				0				0	4314				447		447	4314

TOTAL MATERIAL COST

Drilling Fluids

PRODUCT SUMMARY

Operator : OMV Australia
Well Name : Baleen # 3
Contractor : Diamond Offshore
Field/Area : Vic / L21
Description : Development
Location : Bass Strait

SUMMARY OF PRODUCT USAGE FOR INTERVAL 24/05/2002 - 19/06/2002, 111.5 - 1555

WATER-BASED MUD	SIZE	AMOUNT	UNIT COST ($)	PROD COST ($)
1 - Barite Bulk	100 LB BG	916	6.30	5770.80
2 - Gel Bulk	100 LB BG	849	8.12	6893.88
3 - Calcium Chloride	25 KG BG	34	9.17	311.78
4 - Caustic Soda	25 KG DM	17	17.32	294.44
5 - Dual-Flo	50 LB BG	121	94.75	11464.75
6 - Duotec	25 KG BG	73	192.61	14060.53
7 - Defoam A	25 LT DM	14	56.17	786.38
8 - Flo-Vis Plus	25 KG BG	93	421.14	39166.02
9 - Glute-25	25 LT DM	10	67.75	677.50
10 - Glydril LC	208 KG DM	42	621.94	26121.48
11 - Lime	25 KG BG	6	6.64	39.84
12 - OS-1	25 KG BG	16	31.94	511.04
13 - Polyplus Dry	25 KG BG	30	70.41	2112.30
14 - Polypac UL	25 KG BG	36	92.93	3345.48
15 - KCL-Geel	1 TN BG	75	274.45	20583.75
16 - Potassium Hydroxide	25 KG DM	17	28.96	492.32
17 - Safe Surf WN	200 KG DM	4	933.30	3733.20
18 - Soda Ash	25 KG BG	6	9.32	55.92
19 - Sodium Bicarbonate	25 KG BG	18	9.61	172.98
20 - Omyacarb 1	25 KG BG	42	6.04	253.68
21 - Omyacarb 8	25 KG BG	336	6.04	2029.44
22 - Omyacarb 10	25 KG BG	30	6.04	181.20
23 - Flossy Salt	25 KG BG	96	6.50	624.00
24 - KCL-Welsh	1 TN BK	22	287.45	6323.90
25 - Conqor 303A	55 GA DM	3	192.72	578.16
26 - Wellzyme A	55 GA DM	4	1749.00	6996.00

Drilling Fluids

PRODUCT SUMMARY

Operator : OMV Australia
Well Name : Baleen # 3
Contractor : Diamond Offshore
Field/Area : Vic / L21
Description : Development
Location : Bass Strait

SUMMARY OF PRODUCT USAGE FOR INTERVAL 24/05/2002 - 19/06/2002, 111.5 - 1555

SUB TOTAL:	153580.77
TAX:	0.00
WATER-BASED MUD TOTAL COST:	153580.77
TOTAL MUD COST FOR INTERVAL:	153580.77

Drilling Fluids

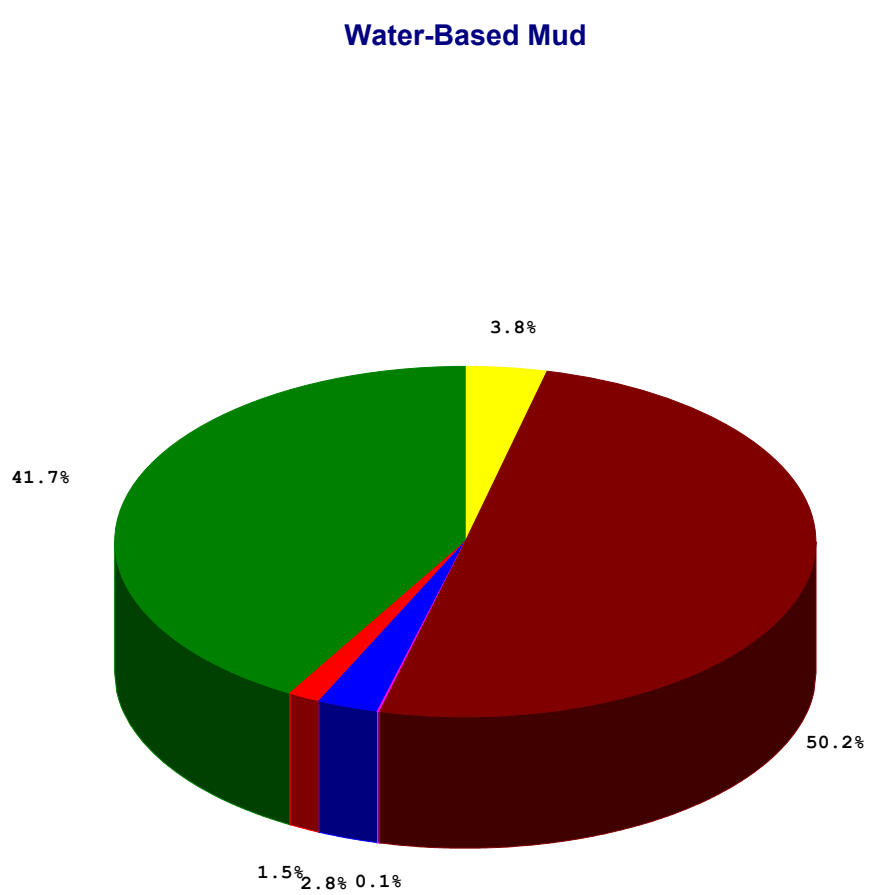
ONE-TRAX

Operator : OMV Australia
Well Name : Baleen # 3
Field/Area : Vic / L21
Description : Development
Location : Bass Strait

Cost Analysis

BREAKDOWN OF COST BY PRODUCT GROUP 24/05/2002 - 19/06/2002, 77 - 1555 m

Water-Based Mud Products	$	%
1-Common Chemicals	63991.33	41.7
2-Lost Circ Material	2283.12	1.5
3-Lubricant	4311.36	2.8
4-Plastic-Wrap/Pallet	181.20	0.1
5-Visc/Fluid Loss	77042.96	50.2
6-Weight Material	5770.80	3.8
Water-Based Mud Total Cost: $	153580.77	100.0



HYDRAULICS REPORT

HYDRAULICS SUMMARY

Operator : OMV Australia
Field/Area : Vic / L21
Well Name : Baleen # 3
Description : Development
Contractor : Diamond Offshore
Location : Bass Strait

Date		24/05/2002	25/05/2002	26/05/2002	28/05/2002	29/05/2002	30/05/2002	31/05/2002	1/06/2002
Depth	m	112	336	336	336	542	871	871	919
Days Since Spud		1	2	3	5	6	7	8	9
*RHEOLOGICAL PROPERTIES									
Mud Wt	sp.gr.	1.04	1.04	1.04	1.06	1.06	1.16	1.16	1.11
Plastic Visc	cP				11	12	18	18	13
Yield Point	lb/100ft²				21	24	39	38	40
3-rpm Rdg	Fann deg				7	7	12	12	18
np Value		.4557	.4557	.4557	.4263	.415	.3959	.4021	.3165
Kp Value	lb•s^n/100ft²	2.178	2.178	2.178	2.3923	2.8865	5.1487	4.8674	7.8577
na Value		.2994	.2994	.2994	.3133	.3514	.3287	.3287	.2055
Ka Value	lb•s^n/100ft²	4.5832	4.5832	4.5832	4.4804	4.2105	7.4898	7.4898	13.7362
*FLOW DATA									
Flow Rate	gal/min	0	1023	0	0	799	838	0	521
Pump Pressure	psi	1000	2000	0	0	1725	1950	0	1700
Pump	hhp	*	*	*	*	804	953	*	517
*PRESSURE LOSSES									
Drill String	psi	*	*	*	*	543	831	*	217
Bit	psi	*	*	*	*	1809	2178	*	1138
Annulus	psi	*	*	*	*	18	49	*	137
Total System	psi	*	*	*	*	2371	3059	*	1493
*BIT HYDRAULICS									
Nozzles	1/32"	3x24	3x24			3x15	3x15		3x14
Nozzles	1/32"	17				24x1	24x1		
Bit Pressure	%	*	*	*	*	105	112	*	67
Bit	hhp	*	*	*	*	843	1065	*	346
Bit HSI	(index)	*	*	*	*	7.16	9.04	*	6.1
Jet Velocity	ft/s	*	*	*	*	146	153	*	113
Impact Force	lbf	*	*	*	*	1749	2105	*	926
DRILL COLLARS ANNULUS									
Velocity	m/s	*	*	*	*	1	1	*	1
Critical Vel	m/s	*	*	*	*	2	2	*	2
Reynolds Number		*	*	*	*	1093	809	*	929
Crit Re (Lam - Tran)		*	*	*	*	2901	2928	*	3036
*DRILL PIPE ANNULUS									
Velocity	m/s	*	*	*	*	1	1	*	1
Critical Vel	m/s	*	*	*	*	2	2	*	2
Reynolds Number		*	*	*	*	712	516	*	929
Crit Re (Lam - Tran)		*	*	*	*	2901	2928	*	3036
*HOLE CLEANING									
Slip Velocity	m/s	*	*	*	*			*	
Rising Velocity	m/s	*	*	*	*	1	1	*	1
Lifting Capacity	%	*	*	*	*	89	92	*	95
Cutting Conc	%	*	*	*	*	1.27	0.77	*	0.45
Penetration Rate	m/h	22.6	34.4	0	0	26.8	17.7	0	14
CASING SHOE PRESSURES									
ECD	sp.gr.	*	*	*	*	1.08	1.2	*	1.25
ECD+Cuttings	sp.gr.	*	*	*	*	1.1	1.21	*	1.25
TOTAL DEPTH PRESSURES									
ECD	sp.gr.	*	*	*	*	1.08	1.21	*	1.25
ECD+Cuttings	sp.gr.	*	*	*	*	1.1	1.22	*	1.26

HYDRAULICS SUMMARY

Operator : OMV Australia **Field/Area :** Vic / L21

Well Name : Baleen # 3 **Description :** Development

Contractor : Diamond Offshore **Location :** Bass Strait

Date		2/06/2002	3/06/2002	4/06/2002	5/06/2002	6/06/2002	7/06/2002	8/06/2002	9/06/2002
Depth	m	1287	1144	1555	1555	1555	1555	1555	1555
Days Since Spud		10	11	12	13	14	15	16	17
*RHEOLOGICAL PROPERTIES									
Mud Wt	sp.gr.	1.16	1.18	1.22	1.12	1.12	1.12	1.12	1.12
Plastic Visc	cP	12	15	15					
Yield Point	lb/100ft²	44	37	39					
3-rpm Rdg	Fann deg	19	16	17					
np Value		.2801	.3656	.3536	.3536	.3536	.3536	.3536	.3536
Kp Value	lb•s^n/100ft²	10.416	5.6733	6.3498	6.3498	6.3498	6.3498	6.3498	6.3498
na Value		.2123	.2391	.2218	.2218	.2218	.2218	.2218	.2218
Ka Value	lb•s^n/100ft²	14.3391	11.559	12.6327	12.6327	12.6327	12.6327	12.6327	12.6327
*FLOW DATA									
Flow Rate	gal/min	598	598	598	0	0	0	0	0
Pump Pressure	psi	2440	2388	2550	0	0	0	0	0
Pump	hhp	851	833	890	*	*	*	*	*
*PRESSURE LOSSES									
Drill String	psi	337	358	466	*	*	*	*	*
Bit	psi	1567	1594	1649	*	*	*	*	*
Annulus	psi	225	183	257	*	*	*	*	*
Total System	psi	2129	2135	2372	*	*	*	*	*
*BIT HYDRAULICS									
Nozzles	1/32"	3x14	3x14	3x14					
Nozzles	1/32"								
Bit Pressure	%	64	67	65	*	*	*	*	*
Bit	hhp	547	556	575	*	*	*	*	*
Bit HSI	(index)	9.64	9.8	10.14	*	*	*	*	*
Jet Velocity	ft/s	130	130	130	*	*	*	*	*
Impact Force	lbf	1274	1296	1340	*	*	*	*	*
DRILL COLLARS ANNULUS									
Velocity	m/s	2	2	2	*	*	*	*	*
Critical Vel	m/s	3	2	2	*	*	*	*	*
Reynolds Number		1146	1248	1299	*	*	*	*	*
Crit Re (Lam - Tran)		3086	2969	2986	*	*	*	*	*
*DRILL PIPE ANNULUS									
Velocity	m/s	2	2	2	*	*	*	*	*
Critical Vel	m/s	3	2	2	*	*	*	*	*
Reynolds Number		1146	1248	1299	*	*	*	*	*
Crit Re (Lam - Tran)		3086	2969	2986	*	*	*	*	*
*HOLE CLEANING									
Slip Velocity	m/s				*	*	*	*	*
Rising Velocity	m/s	2	2	2	*	*	*	*	*
Lifting Capacity	%	96	96	96	*	*	*	*	*
Cutting Conc	%	0.51	0.52	0.59	*	*	*	*	*
Penetration Rate	m/h	18.4	18.5	21	0	0	0	0	0
CASING SHOE PRESSURES									
ECD	sp.gr.	1.38	1.35	1.45	*	*	*	*	*
ECD+Cuttings	sp.gr.	1.39	1.36	1.46	*	*	*	*	*
TOTAL DEPTH PRESSURES									
ECD	sp.gr.	1.39	1.36	1.47	*	*	*	*	*
ECD+Cuttings	sp.gr.	1.4	1.37	1.48	*	*	*	*	*

HYDRAULICS SUMMARY

Operator : OMV Australia **Field/Area :** Vic / L21

Well Name : Baleen # 3 **Description :** Development

Contractor : Diamond Offshore **Location :** Bass Strait

Date		10/06/2002	11/06/2002	12/06/2002	13/06/2002	14/06/2002	15/06/2002		
Depth	m	1555	1555	1555	1555	1555	1555		
Days Since Spud		18	19	20	21	22	23		
*RHEOLOGICAL PROPERTIES									
Mud Wt	sp.gr.	1.12	1.12	1.12	1.12	1.12	1.02		
Plastic Visc	cP								
Yield Point	lb/100ft²								
3-rpm Rdg	Fann deg								
np Value		.3536	.3536	.3536	.3536	.3536	.3536		
Kp Value	lb•s^n/100ft²	6.3498	6.3498	6.3498	6.3498	6.3498	6.3498		
na Value		.2218	.2218	.2218	.2218	.2218	.2218		
Ka Value	lb•s^n/100ft²	12.6327	12.6327	12.6327	12.6327	12.6327	12.6327		
*FLOW DATA									
Flow Rate	gal/min	0	0	0	0	0	0		
Pump Pressure	psi	0	0	0	0	0	0		
Pump	hhp	*	*	*	*	*	*		
*PRESSURE LOSSES									
Drill String	psi	*	*	*	*	*	*		
Bit	psi	*	*	*	*	*	*		
Annulus	psi	*	*	*	*	*	*		
Total System	psi	*	*	*	*	*	*		
*BIT HYDRAULICS									
Nozzles	1/32"								
Nozzles	1/32"								
Bit Pressure	%	*	*	*	*	*	*		
Bit	hhp	*	*	*	*	*	*		
Bit HSI	(index)	*	*	*	*	*	*		
Jet Velocity	ft/s	*	*	*	*	*	*		
Impact Force	lbf	*	*	*	*	*	*		
DRILL COLLARS ANNULUS									
Velocity	m/s	*	*	*	*	*	*		
Critical Vel	m/s	*	*	*	*	*	*		
Reynolds Number		*	*	*	*	*	*		
Crit Re (Lam - Tran)		*	*	*	*	*	*		
*DRILL PIPE ANNULUS									
Velocity	m/s	*	*	*	*	*	*		
Critical Vel	m/s	*	*	*	*	*	*		
Reynolds Number		*	*	*	*	*	*		
Crit Re (Lam - Tran)		*	*	*	*	*	*		
*HOLE CLEANING									
Slip Velocity	m/s	*	*	*	*	*	*		
Rising Velocity	m/s	*	*	*	*	*	*		
Lifting Capacity	%	*	*	*	*	*	*		
Cutting Conc	%	*	*	*	*	*	*		
Penetration Rate	m/h	0	0	0	0	0	0		
CASING SHOE PRESSURES									
ECD	sp.gr.	*	*	*	*	*	*		
ECD+Cuttings	sp.gr.	*	*	*	*	*	*		
TOTAL DEPTH PRESSURES									
ECD	sp.gr.	*	*	*	*	*	*		
ECD+Cuttings	sp.gr.	*	*	*	*	*	*		

DRILLING FLUIDS SUMMARY

DRILLING FLUIDS SUMMARY

Operator : OMV Australia
Field/Area : Vic / L21
Well Name : Baleen # 3
Description : Development
Contractor : Diamond Offshore
Location : Bass Strait

Date		24/05/2002	25/05/2002	26/05/2002	28/05/2002	28/05/2002	29/05/2002
Depth/TVD	m	111.5/111.5	336/336	336/336	336/336	336/336	542/519
Activity		menting 30" casi	un 13.3/8" Casin	Testing connecto	RIH to drill out	RIH to drill out	Drilling 12.1/4"
Mud Type		SW & HV Swe	SW & HV Swe	SW HV Sweep	KCL / PHPA	KCL / PHPA	KCL / PHPA
Hole Size	in	36	17.5	17.5	12.25	12.25	12.25
Circ Volume	bbl	140	308	228	224	224	1320
Flow Rate	gal/min	0	1023	0	0	0	799
Circ Pressure	psi	1000	2000	0	0	0	1725
Avg ROP	m/hr	22.6	34.4	0	0	0	26.8
Sample From		24:00	Pit	Pit	Pit	Pit	FL
Flow Line Temp	°C						30
Mud Weight	sp.gr.	1.04@ °C	1.04 @ °C	1.04 @ °C	1.06@20 °C	1.06@20 °C	1.06 @30 °C
Funnel Viscosity	s/qt	>100+	>100+		92	92	54
PV	cP				11	16	12
YP	lb/100ft²				21	28	24
R600/R300/R200		/ /	/ /	/ /	43/32/27	60/44/36	48/36/31
R100/R6/R3		/ /	/ /	/ /	21/8/7	27/11/9	24/9/7
10s/10m/30m Gel	lb/100ft²	//	//	//	7/11/11	9/14/14	7/11/12
API Fluid Loss	cc/30 min				10	10	5.8
HTHP Fluid Loss	cc/30 min						-
Cake API/HT	1/32"	/	/	/	0.2/	0.2/	0.5/-
Solids	%Vol				3.3	3.3	3.4
Oil/Water	%Vol	/	/	/	/96.7	/96.7	/96.6
Sand	%Vol				0	0	0
MBT	lb/bbl				0	0	1
pH					9.5	9.5	9.5
Alkal Mud (Pm)					0.12	0.12	0.2
Pf/Mf		/	/	/	0.1/0.4	0.1/0.4	0.15/0.5
Chlorides	mg/l				37000	37000	36000
Hardness Ca					280	280	400
KCL	% by wt				5	5	5.5
LSRV1	cP				0.6	0.6	1.0
LSRV2	cP				3	3	3
LSRV3	cP				10	10	10
Daily Mud Cost	$	5016.20	2527.70	0.00	3641.40		10725.75
Cuml Mud Cost	$	5016.20	7543.90	7543.90	46306.18		57031.93
Sales Engineer		Gordon /Voytek	Gordon /Voytek	Gordon /Voytek	Gordon /Voytek	Gordon /Voytek	Gordon /Voytek
Products Used		Na2Co3 / 4	MI Gel / 279		BARBK / 578		BARBK / 100
		MI Gel / 570	CaCl2 / 18				Duotec / 16
		CaCl2 / 16	NaOH / 3				GlydLC / 8
		NaOH / 11	Lime / 4				os1 / 2
		Lime / 2	Na2Co3 / 2				Pac UL / 10
							KCL / 3
							KOH / 7
							NaHCO3 / 2

REMARKS

24/05/2002: Mixed 1639 bbl of mud.
25/05/2002: Mixing PHG.Pumping Hi Vis flocculated PHG sweeps.Displaced hole to unflocculated PHG before POOH for running 13.5/8" c
26/05/2002: Dumped and cleaned tanks.Mixing new mud
28/05/2002: Sheared new mud.

29/05/2002: Drilled out cement with sea water pumping Hi Vis PHG sweeps.Displaced to KCL/PHPA/Glycol mud. Adding PHPA / Duotec.

DRILLING FLUIDS SUMMARY

Operator : OMV Australia **Field/Area :** Vic / L21

Well Name : Baleen # 3 **Description :** Development

Contractor : Diamond Offshore **Location :** Bass Strait

Date		29/05/2002	30/05/2002	30/05/2002	30/05/2002	30/05/2002	31/05/2002
Depth/TVD	m	358/ 357	871/682	794/662	717/632	643/564	871/682
Activity		Drilling 12.1/4"	Wiper trip	Wiper trip	Wiper trip	Wiper trip	Testing BOP
Mud Type		KCL / PHPA	KCL / PHPA	KCL / PHPA	KCL / PHPA	KCL / PHPA	KCL / PHPA
Hole Size	in	12.25	12.25	12.25	12.25	12.25	12.25
Circ Volume	bbl	1320	1485	1485	1485	1485	996
Flow Rate	gal/min	799	838	838	838	838	0
Circ Pressure	psi	1725	1950	1950	1950	1950	0
Avg ROP	m/hr	26.8	17.7	17.7	17.7	17.7	0
Sample From		FL	Fl	Fl	Fl	FL	Pit
Flow Line Temp	°C	30	30	30	30	30	
Mud Weight	sp.gr.	1.06@30 °C	1.16@30 °C	1.09@30 °C	1.08@30 °C	1.06@30 °C	1.16@30 °C
Funnel Viscosity	s/qt	57	67	64	60	56	66
PV	cP	14	18	15	14	12	18
YP	lb/100ft²	22	39	31	30	26	38
R600/R300/R200		50/36/30	75/57/49	61/46/39	58/44/37	50/38/33	74/56/48
R100/R6/R3		22/8/6	38/14/12	30/11/9	29/11/9	25/10/8	38/13/12
10s/10m/30m Gel	lb/100ft²	6/10/12	12/18/20	9/12/14	9/13/14	8/12/14	12/17/21
API Fluid Loss	cc/30 min	6.4	4.6	4.8	5.0	5.2	4.6
HTHP Fluid Loss	cc/30 min	-	-	-	-	-	-
Cake API/HT	1/32"	0.5/-	1/-	1/-	0.5/-	0.5/-	1/-
Solids	%Vol	3.4	7	5	4.4	4	7
Oil/Water	%Vol	/96.6	/93	/95	/95.6	/96	/93
Sand	%Vol	0	Tr	Tr	Tr	Tr	Tr
MBT	lb/bbl	0	5	5	5	5	5
pH		8.5	9.5	9.5	9.5	9.5	9.5
Alkal Mud (Pm)		0.15	0.12	0.12	0.2	0.2	0.12
Pf/Mf		0.1/0.5	0.1/0.5	0.1/0.5	0.1/0.6	0.1/0.6	0.1/0.5
Chlorides	mg/l	36000	38000	38000	37000	37000	38000
Hardness Ca		400	720	680	420	420	720
KCL	% by wt	5.5	5.5	5.5	5.5	5.5	5.5
LSRV1	cP	0.6	0.8	0.8	0.8	0.8	0.6
LSRV2	cP	3	3	3	3	3	3
LSRV3	cP	10	10	10	10	10	10
Daily Mud Cost	$		3488.86				1499.40
Cuml Mud Cost	$		60520.79				62020.19
Sales Engineer		Gordon /Voytek	Gordon /Voytek	Gordon /Voytek	Gordon /Voytek	Gordon /Voytek	Gordon /Voytek
Products Used			Duotec / 8				BARBK / 238
			GlydLC / 2				
			Poly+ / 10				

REMARKS

30/05/2002: Keep adding Duotec to increase 6 rpm readings. Added Glydril and Polyplus premix.Weighted up to 9.6 ppg w/Barite.

31/05/2002: Mixing Flo-Pro system.

DRILLING FLUIDS SUMMARY

Operator : OMV Australia **Field/Area :** Vic / L21

Well Name : Baleen # 3 **Description :** Development

Contractor : Diamond Offshore **Location :** Bass Strait

Date		1/06/2002	2/06/2002	2/06/2002	2/06/2002	3/06/2002	3/06/2002
Depth/TVD	m	919/684	1287/672	1115/677	998/681	1144/700	1352/672
Activity		Work on TDS	rilling 8.1/2" Ho	rilling 8.1/2" Ho	rilling 8.1/2" Hol	rilling 8.1/2" Ho	rilling 8.1/2" Ho
Mud Type		Flo-Pro sys	Flo-Pro sys	Flo-Pro sys	Flo-Pro sys	Flo-Pro sys	Flo-Pro sys
Hole Size	in	8.5	8.5	8.5	8.5	8.5	8.5
Circ Volume	bbl	1211	1335	1335	1335	1297	1297
Flow Rate	gal/min	521	598	598	598	598	598
Circ Pressure	psi	1700	2440	2440	2440	2388	2388
Avg ROP	m/hr	14	18.4	18.4	18.4	18.5	18.5
Sample From		FL	FL	FL	FL	Fl	FL
Flow Line Temp	°C	30	48	48	48	50	50
Mud Weight	sp.gr.	1.11@30 °C	1.16@48 °C	1.15@48 °C	1.12 @32 °C	1.18@50 °C	1.17@50 °C
Funnel Viscosity	s/qt	84	64	67	83	62	64
PV	cP	13	12	12	14	15	12
YP	lb/100ft²	40	44	43	40	37	44
R600/R300/R200		66/53/47	68/56/49	67/55/48	68/54/47	67/52/45	68/56/49
R100/R6/R3		37/20/18	40/22/19	38/21/19	39/20/18	37/19/16	40/22/19
10s/10m/30m Gel	lb/100ft²	18/22/23	19/25/29	19/26/31	18/25/28	16/26/29	12/25/29
API Fluid Loss	cc/30 min	4.8	4.6	4.8	5	5	4.6
HTHP Fluid Loss	cc/30 min	-	-	-	-	-	-
Cake API/HT	1/32"	0.5/-	0.5/-	0.5/-	0.5/-	0.5/-	0.5/-
Solids	%Vol	5	6	5	5	7	6
Oil/Water	%Vol	/95	/94	/95	/95	/93	/94
Sand	%Vol	0	Tr	Tr	Tr	Tr	Tr
MBT	lb/bbl	1.25	4.5	4	1.25	5	4.5
pH		9.5	9.5	9.5	9.5	9.5	9.5
Alkal Mud (Pm)		0.12	0.12	0.14	0.12	0.12	0.12
Pf/Mf		0.1/1	0.1/1.1	0.1/1	0.1/1.1	0.1/1.1	0.1/1.1
Chlorides	mg/l	78000	80000	79000	78000	84000	80000
Hardness Ca		360	560	480	360	520	560
KCL	% by wt	15	15	15	15	15	15
LSRV1	cP	75200	78500	74300	71200	67120	78600
LSRV2	cP	89120	91200	88750	89000	74684	91000
LSRV3	cP	91500	91580	91000	92500	73500	91500
Daily Mud Cost	$	47167.56	2786.75			2645.81	
Cuml Mud Cost	$	109187.75	111974.50			114620.31	
Sales Engineer		Gordon /Voytek	Gordon /Voytek	Gordon /Voytek	Gordon /Voytek	Gordon /Voytek	Gordon /Voytek
Products Used		DualFlo / 89	KCL / 7			DualFlo / 8	
		DefoamA / 4	Om 1 / 3			Flovis+ / 4	
		Flovis+ / 68	OM 8 / 36			Glute25 / 3	
		Glute25 / 5	OM10 / 1				
		KCL / 3	Flossy / 96				
		KOH / 4					
		NaHCO3 / 5					
		Om 1 / 39					
		OM 8 / 300					
		OM10 / 29					
		KCLW / 22					

REMARKS

1/06/2002: Drilled out with old mud.Displaced to Flo Pro at. Dumped old mud.

2/06/2002: Adding Premix to maintain LSRV

3/06/2002: Pretreated mud with Glute-25 against bacteria attack.Added fresh premix to control MW and build up of fine solids.

DRILLING FLUIDS SUMMARY

Operator : OMV Australia **Field/Area :** Vic / L21

Well Name : Baleen # 3 **Description :** Development

Contractor : Diamond Offshore **Location :** Bass Strait

Date		4/06/2002	4/06/2002	4/06/2002	5/06/2002	6/06/2002	7/06/2002
Depth/TVD	m	1555/709	1356/693	1261/677	1555/709	1555/709	1555/709
Activity		Wiper trip	Wiper trip	Wiper trip	Running screens	OH for complet	Well Completior
Mud Type		Flo-Pro sys	Flo-Pro sys	Flo-Pro sys	Flo-Pro SF	KCL brine	KCL brine
Hole Size	in	8.5	8.5	8.5	8.5	8.5	8.5
Circ Volume	bbl	1595	1595	1595	974	1293	1260
Flow Rate	gal/min	598	598	598	0	0	0
Circ Pressure	psi	2550	2550	2550	0	0	0
Avg ROP	m/hr	21	21	21	0	0	0
Sample From		FL	FL	FL		Pit	Pit
Flow Line Temp	°C	50	50	50			
Mud Weight	sp.gr.	1.22@48 °C	1.21@48 °C	1.2@48 °C	1.12 @ °C	1.12@ °C	1.12@ °C
Funnel Viscosity	s/qt	59	57	55			
PV	cP	15	16	15			
YP	lb/100ft²	39	35	38			
R600/R300/R200		69/54/46	67/51/44	68/53/46	/ /	/ /	/ /
R100/R6/R3		37/19/17	35/17/15	37/18/16	/ /	/ /	/ /
10s/10m/30m Gel	lb/100ft²	17/25/30	15/25/28	16/24/28	//	//	//
API Fluid Loss	cc/30 min	4.8	5.0	5.0			
HTHP Fluid Loss	cc/30 min	-	-	-			
Cake API/HT	1/32"	1/-	1/-	1/-	/	/	/
Solids	%Vol	7	6	6			
Oil/Water	%Vol	/93	/94	/94	/	/	/
Sand	%Vol	Tr	Tr	Tr			
MBT	lb/bbl	7.5	7.0	6.4			
pH		9.0	9.5	9.5			
Alkal Mud (Pm)		0.12	0.14	0.14			
Pf/Mf		0.1/1	0.1/1.1	0.1/1.1	/	/	/
Chlorides	mg/l	90000	88000	84000			
Hardness Ca		800	520	520			
KCL	% by wt	16	15	15			
LSRV1	cP	63300	40500	50180			
LSRV2	cP	73180	48800	55120			
LSRV3	cP	73890	53800	56200			
Daily Mud Cost	$	20570.24			337.02	15229.50	0.00
Cuml Mud Cost	$	135190.55			135527.57	150757.07	150757.07
Sales Engineer		Gordon /Voytek	Gordon /Voytek	Gordon /Voytek	Gordon /Voytek	/Voytek	/Voytek
Products Used		DualFlo / 24			DefoamA / 6	KCL / 30	
		Duotec / 2				wellzym / 4	
		Flovis+ / 19					
		Glute25 / 1					
		os1 / 1					
		KCL / 22					
		KOH / 1					
		SS WN / 4					
		NaHCO3 / 1					

REMARKS

4/06/2002: Run Desilter and dump/add new premix to cut MW below 1.2 SG. Mixed clean up pills.

5/06/2002: Dumped and cleaned pits. Saved 700 bbl of Flo-Pro in storage pits. Mixing 1.12 SG KCL Brine.
6/06/2002: Mixed 1.12 SG KCL brine and filtered. Mixed Wellzyme A pill.
7/06/2002: Filtered KCL brine.

DRILLING FLUIDS SUMMARY

Operator : OMV Australia **Field/Area :** Vic / L21

Well Name : Baleen # 3 **Description :** Development

Contractor : Diamond Offshore **Location :** Bass Strait

Date		8/06/2002	9/06/2002	10/06/2002	11/06/2002	12/06/2002	13/06/2002
Depth/TVD	m	1555/709	1555/709	1555/709	1555/709	1555/709	1555/709
Activity		Rig up coil tubing	Well Testing	Well testing	Well Testing	Well testing	Well testing
Mud Type		KCL brine	KCL brine	KCL brine	KCL brine	KCL brine	KCL brine
Hole Size	in	8.5	8.5	8.5	8.5	8.5	8.5
Circ Volume	bbl	1163	1163	1163	1163	1163	1163
Flow Rate	gal/min	0	0	0	0	0	0
Circ Pressure	psi	0	0	0	0	0	0
Avg ROP	m/hr	0	0	0	0	0	0
Sample From		Pit	Pit	Pit			
Flow Line Temp	°C						
Mud Weight	sp.gr.	1.12 @ °C	1.12 @ °C	1.12 @ °C	1.12 @ °C	1.12 @ °C	1.12 @ °C
Funnel Viscosity	s/qt						
PV	cP						
YP	lb/100ft²						
R600/R300/R200		/ /	/ /	/ /	/ /	/ /	/ /
R100/R6/R3		/ /	/ /	/ /	/ /	/ /	/ /
10s/10m/30m Gel	lb/100ft²	//	//	//	//	//	//
API Fluid Loss	cc/30 min						
HTHP Fluid Loss	cc/30 min						
Cake API/HT	1/32"	/	/	/	/	/	/
Solids	%Vol						
Oil/Water	%Vol	/	/	/	/	/	/
Sand	%Vol						
MBT	lb/bbl						
pH							
Alkal Mud (Pm)							
Pf/Mf		/	/	/	/	/	/
Chlorides	mg/l						
Hardness Ca							
KCL	% by wt						
LSRV1	cP						
LSRV2	cP						
LSRV3	cP						
Daily Mud Cost	$	1018.37	0.00	0.00	0.00	0.00	0.00
Cuml Mud Cost	$	151775.44	151775.44	151775.44	151775.44	151775.44	151775.44
Sales Engineer		/Voytek	/Voytek	/Voytek	/G. Garr	/G. Garr	/G. Garr
Products Used		NaOH / 3					
		DefoamA / 4					
		Glute25 / 1					
		os1 / 3					
		con303 / 3					

REMARKS

8/06/2002: Displaced casing to inhibited KCl brine.
9/06/2002: House keeping in the sackroom
10/06/2002: Checked mud inventory.
11/06/2002:
12/06/2002: Flowing well according to program.
13/06/2002: Well test program.

DRILLING FLUIDS SUMMARY

Operator : OMV Australia
Field/Area : Vic / L21
Well Name : Baleen # 3
Description : Development
Contractor : Diamond Offshore
Location : Bass Strait

Date		14/06/2002	15/06/2002				
Depth/TVD	m	1555/709	1555/709				
Activity		Well suspension	Well Suspension				
Mud Type		KCL brine	KCL brine				
Hole Size	in	8.5	8.5				
Circ Volume	bbl	1309	1309				
Flow Rate	gal/min	0	0				
Circ Pressure	psi	0	0				
Avg ROP	m/hr	0	0				
Sample From							
Flow Line Temp	°C						
Mud Weight	sp.gr.	1.12 @ °C	1.02@ °C				
Funnel Viscosity	s/qt						
PV	cP						
YP	lb/100ft²						
R600/R300/R200		/ /	/ /				
R100/R6/R3		/ /	/ /				
10s/10m/30m Gel	lb/100ft²	//	//				
API Fluid Loss	cc/30 min						
HTHP Fluid Loss	cc/30 min						
Cake API/HT	1/32"	/	/				
Solids	%Vol						
Oil/Water	%Vol	/	/				
Sand	%Vol						
MBT	lb/bbl						
pH							
Alkal Mud (Pm)							
Pf/Mf		/	/				
Chlorides	mg/l						
Hardness Ca							
KCL	% by wt						
LSRV1	cP						
LSRV2	cP						
LSRV3	cP						
Daily Mud Cost	$	0.00	1805.33				
Cuml Mud Cost	$	151775.44	153580.77				
Sales Engineer		/G. Garr	D. Dixo/G. Garr				
Products Used			Duotec / 5				
			Flovis+ / 2				

REMARKS

14/06/2002: Completed well test and commence suspension.
15/06/2002: Completing well suspension

PRODUCT CONSUMPTION

Drilling Fluids

Product Consumption

Operator : OMV Australia
Well Name : Baleen # 3
Location : Bass Strait
Field/Area: Vic / L21

Contractor: Diamond Offshore
M-I Engineer: Voytek Czarny
Rig Name: Ocean Bounty
Stock Point: Geelong

		DATES										
Product	Product	May 24, 2002		May 25, 2002		May 26, 2002		May 27, 2002		May 28, 2002		Page
Name	Price	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Totals
Barite Bulk	6.30		0.00		0.00		0.00		0.00	578	3641.40	3641.40
Gel Bulk	8.12	570	4628.40	279	2265.48		0.00		0.00		0.00	6893.88
Calcium Chloride	9.17	16	146.72	18	165.06		0.00		0.00		0.00	311.78
Caustic Soda	17.32	11	190.52	3	51.96		0.00		0.00		0.00	242.48
Citric Acid	26.31		0.00		0.00		0.00		0.00		0.00	0.00
Dual-Flo	94.75		0.00		0.00		0.00		0.00		0.00	0.00
Duotec	192.61		0.00		0.00		0.00	42	8089.62		0.00	8089.62
Defoam A	56.17		0.00		0.00		0.00		0.00		0.00	0.00
Flo-Vis Plus	421.14		0.00		0.00		0.00		0.00		0.00	0.00
Glute-25	67.75		0.00		0.00		0.00		0.00		0.00	0.00
Glydril LC	621.94		0.00		0.00		0.00	32	19902.08		0.00	19902.08
Guar Gum	33.68		0.00		0.00		0.00		0.00		0.00	0.00
Kwik Seal Fine	28.19		0.00		0.00		0.00		0.00		0.00	0.00
Kwik Sealk Medium	28.19		0.00		0.00		0.00		0.00		0.00	0.00
Lime	6.64	2	13.28	4	26.56		0.00		0.00		0.00	39.84
Mix II Fine	22.93		0.00		0.00		0.00		0.00		0.00	0.00
Mix II Medium	22.93		0.00		0.00		0.00		0.00		0.00	0.00
OS-1	31.94		0.00		0.00		0.00	10	319.40		0.00	319.40
Pipelax W	326.34		0.00		0.00		0.00		0.00		0.00	0.00
Polyplus Dry	70.41		0.00		0.00		0.00	20	1408.20		0.00	1408.20
Polypac UL	92.93		0.00		0.00		0.00	26	2416.18		0.00	2416.18
KCL-Geel	274.45		0.00		0.00		0.00	10	2744.50		0.00	2744.50
Potassium Hydroxide	28.96		0.00		0.00		0.00	5	144.80		0.00	144.80
Safe Surf WN	933.30		0.00		0.00		0.00		0.00		0.00	0.00
Soda Ash	9.32	4	37.28	2	18.64		0.00		0.00		0.00	55.92
Sodium Bicarbonate	9.61		0.00		0.00		0.00	10	96.10		0.00	96.10
Omyacarb 1	6.04		0.00		0.00		0.00		0.00		0.00	0.00
Omyacarb 8	6.04		0.00		0.00		0.00		0.00		0.00	0.00
Omyacarb 10	6.04		0.00		0.00		0.00		0.00		0.00	0.00
Zinc Carbonate	32.88		0.00		0.00		0.00		0.00		0.00	0.00
Flossy Salt	6.50		0.00		0.00		0.00		0.00		0.00	0.00
KCL-Welsh	287.45		0.00		0.00		0.00		0.00		0.00	0.00
KCL-Eden	323.45		0.00		0.00		0.00		0.00		0.00	0.00
Conqor 303A	192.72		0.00		0.00		0.00		0.00		0.00	0.00
Omyacarb 40	6.20		0.00		0.00		0.00		0.00		0.00	0.00
Circal 1000	7.25		0.00		0.00		0.00		0.00		0.00	0.00
Circal Y Grade	7.25		0.00		0.00		0.00		0.00		0.00	0.00
Safe Peel	395.50		0.00		0.00		0.00		0.00		0.00	0.00
Wellzyme A	1749.00		0.00		0.00		0.00		0.00		0.00	0.00
Cumulative Engineering			0.00		0.00		0.00		0.00		0.00	0.00
Daily Product			5016.20		2527.70		0.00		35120.88		3641.40	46306.18
Daily Sales Tax			0		0		0		0		0	0.00
Cumulative Product			5016.20		7543.90		7543.90		42664.78		46306.18	46306.18
Cumulative Cost			5016.20		7543.90		7543.90		42664.78		46306.18	46306.18

Drilling Fluids

Product Consumption

Operator : OMV Australia
Well Name : Baleen # 3
Location : Bass Strait
Field/Area: Vic / L21

Contractor: Diamond Offshore
M-I Engineer: Voytek Czarny
Rig Name: Ocean Bounty
Stock Point: Geelong

	DATES											
Product	Previous	May 29, 2002		May 30, 2002		May 31, 2002		Jun 1, 2002		Jun 2, 2002		Page
Name	Page	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Totals
Barite Bulk	3641.40	100	630.00		0.00	238	1499.40		0.00		0.00	5770.80
Gel Bulk	6893.88		0.00		0.00		0.00		0.00		0.00	6893.88
Calcium Chloride	311.78		0.00		0.00		0.00		0.00		0.00	311.78
Caustic Soda	242.48		0.00		0.00		0.00		0.00		0.00	242.48
Citric Acid	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Dual-Flo	0.00		0.00		0.00		0.00	89	8432.75		0.00	8432.75
Duotec	8089.62	16	3081.76	8	1540.88		0.00		0.00		0.00	12712.26
Defoam A	0.00		0.00		0.00		0.00	4	224.68		0.00	224.68
Flo-Vis Plus	0.00		0.00		0.00		0.00	68	28637.52		0.00	28637.52
Glute-25	0.00		0.00		0.00		0.00	5	338.75		0.00	338.75
Glydril LC	19902.08	8	4975.52	2	1243.88		0.00		0.00		0.00	26121.48
Guar Gum	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Kwik Seal Fine	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Kwik Sealk Medium	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Lime	39.84		0.00		0.00		0.00		0.00		0.00	39.84
Mix II Fine	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Mix II Medium	0.00		0.00		0.00		0.00		0.00		0.00	0.00
OS-1	319.40	2	63.88		0.00		0.00		0.00		0.00	383.28
Pipelax W	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Polyplus Dry	1408.20		0.00	10	704.10		0.00		0.00		0.00	2112.30
Polypac UL	2416.18	10	929.30		0.00		0.00		0.00		0.00	3345.48
KCL-Geel	2744.50	3	823.35		0.00		0.00	3	823.35	7	1921.15	6312.35
Potassium Hydroxide	144.80	7	202.72		0.00		0.00	4	115.84		0.00	463.36
Safe Surf WN	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Soda Ash	55.92		0.00		0.00		0.00		0.00		0.00	55.92
Sodium Bicarbonate	96.10	2	19.22		0.00		0.00	5	48.05		0.00	163.37
Omyacarb 1	0.00		0.00		0.00		0.00	39	235.56	3	18.12	253.68
Omyacarb 8	0.00		0.00		0.00		0.00	300	1812.00	36	217.44	2029.44
Omyacarb 10	0.00		0.00		0.00		0.00	29	175.16	1	6.04	181.20
Zinc Carbonate	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Flossy Salt	0.00		0.00		0.00		0.00		0.00	96	624.00	624.00
KCL-Welsh	0.00		0.00		0.00		0.00	22	6323.90		0.00	6323.90
KCL-Eden	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Conqor 303A	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Omyacarb 40	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Circal 1000	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Circal Y Grade	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Safe Peel	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Wellzyme A	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Cumulative Engineering			0.00		0.00		0.00		0.00		0.00	0.00
Daily Product			10725.75		3488.86		1499.40		47167.56		2786.75	111974.50
Daily Sales Tax			0		0		0		0		0	0.00
Cumulative Product			57031.93		60520.79		62020.19		109187.75		111974.50	111974.50
Cumulative Cost			57031.93		60520.79		62020.19		109187.75		111974.50	111974.50

Drilling Fluids

Product Consumption

Operator : OMV Australia
Well Name : Baleen # 3
Location : Bass Strait
Field/Area: Vic / L21

Contractor: Diamond Offshore
M-I Engineer: Voytek Czarny
Rig Name: Ocean Bounty
Stock Point: Geelong

	DATES											
Product	Previous	Jun 3, 2002		Jun 4, 2002		Jun 5, 2002		Jun 6, 2002		Jun 7, 2002		Page
Name	Page	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Totals
Barite Bulk	5770.80		0.00		0.00		0.00		0.00		0.00	5770.80
Gel Bulk	6893.88		0.00		0.00		0.00		0.00		0.00	6893.88
Calcium Chloride	311.78		0.00		0.00		0.00		0.00		0.00	311.78
Caustic Soda	242.48		0.00		0.00		0.00		0.00		0.00	242.48
Citric Acid	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Dual-Flo	8432.75	8	758.00	24	2274.00		0.00		0.00		0.00	11464.75
Duotec	12712.26		0.00	2	385.22		0.00		0.00		0.00	13097.48
Defoam A	224.68		0.00		0.00	6	337.02		0.00		0.00	561.70
Flo-Vis Plus	28637.52	4	1684.56	19	8001.66		0.00		0.00		0.00	38323.74
Glute-25	338.75	3	203.25	1	67.75		0.00		0.00		0.00	609.75
Glydril LC	26121.48		0.00		0.00		0.00		0.00		0.00	26121.48
Guar Gum	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Kwik Seal Fine	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Kwik Sealk Medium	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Lime	39.84		0.00		0.00		0.00		0.00		0.00	39.84
Mix II Fine	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Mix II Medium	0.00		0.00		0.00		0.00		0.00		0.00	0.00
OS-1	383.28		0.00	1	31.94		0.00		0.00		0.00	415.22
Pipelax W	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Polyplus Dry	2112.30		0.00		0.00		0.00		0.00		0.00	2112.30
Polypac UL	3345.48		0.00		0.00		0.00		0.00		0.00	3345.48
KCL-Geel	6312.35		0.00	22	6037.90		0.00	30	8233.50		0.00	20583.75
Potassium Hydroxide	463.36		0.00	1	28.96		0.00		0.00		0.00	492.32
Safe Surf WN	0.00		0.00	4	3733.20		0.00		0.00		0.00	3733.20
Soda Ash	55.92		0.00		0.00		0.00		0.00		0.00	55.92
Sodium Bicarbonate	163.37		0.00	1	9.61		0.00		0.00		0.00	172.98
Omyacarb 1	253.68		0.00		0.00		0.00		0.00		0.00	253.68
Omyacarb 8	2029.44		0.00		0.00		0.00		0.00		0.00	2029.44
Omyacarb 10	181.20		0.00		0.00		0.00		0.00		0.00	181.20
Zinc Carbonate	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Flossy Salt	624.00		0.00		0.00		0.00		0.00		0.00	624.00
KCL-Welsh	6323.90		0.00		0.00		0.00		0.00		0.00	6323.90
KCL-Eden	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Conqor 303A	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Omyacarb 40	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Circal 1000	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Circal Y Grade	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Safe Peel	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Wellzyme A	0.00		0.00		0.00		0.00	4	6996.00		0.00	6996.00
Cumulative Engineering			0.00		0.00		0.00		0.00		0.00	0.00
Daily Product			2645.81		20570.24		337.02		15229.50		0.00	150757.07
Daily Sales Tax			0		0		0		0		0	0.00
Cumulative Product			114620.31		135190.55		135527.57		150757.07		150757.07	150757.07
Cumulative Cost			114620.31		135190.55		135527.57		150757.07		150757.07	150757.07

Drilling Fluids

Product Consumption

Operator : OMV Australia
Well Name : Baleen # 3
Location : Bass Strait
Field/Area: Vic / L21

Contractor: Diamond Offshore
M-I Engineer: Voytek Czarny
Rig Name: Ocean Bounty
Stock Point: Geelong

	DATES											
Product	Previous	Jun 8, 2002		Jun 9, 2002		Jun 10, 2002		Jun 11, 2002		Jun 12, 2002		Page
Name	Page	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Totals
Barite Bulk	5770.80		0.00		0.00		0.00		0.00		0.00	5770.80
Gel Bulk	6893.88		0.00		0.00		0.00		0.00		0.00	6893.88
Calcium Chloride	311.78		0.00		0.00		0.00		0.00		0.00	311.78
Caustic Soda	242.48	3	51.96		0.00		0.00		0.00		0.00	294.44
Citric Acid	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Dual-Flo	11464.75		0.00		0.00		0.00		0.00		0.00	11464.75
Duotec	13097.48		0.00		0.00		0.00		0.00		0.00	13097.48
Defoam A	561.70	4	224.68		0.00		0.00		0.00		0.00	786.38
Flo-Vis Plus	38323.74		0.00		0.00		0.00		0.00		0.00	38323.74
Glute-25	609.75	1	67.75		0.00		0.00		0.00		0.00	677.50
Glydril LC	26121.48		0.00		0.00		0.00		0.00		0.00	26121.48
Guar Gum	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Kwik Seal Fine	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Kwik Sealk Medium	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Lime	39.84		0.00		0.00		0.00		0.00		0.00	39.84
Mix II Fine	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Mix II Medium	0.00		0.00		0.00		0.00		0.00		0.00	0.00
OS-1	415.22	3	95.82		0.00		0.00		0.00		0.00	511.04
Pipelax W	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Polyplus Dry	2112.30		0.00		0.00		0.00		0.00		0.00	2112.30
Polypac UL	3345.48		0.00		0.00		0.00		0.00		0.00	3345.48
KCL-Geel	20583.75		0.00		0.00		0.00		0.00		0.00	20583.75
Potassium Hydroxide	492.32		0.00		0.00		0.00		0.00		0.00	492.32
Safe Surf WN	3733.20		0.00		0.00		0.00		0.00		0.00	3733.20
Soda Ash	55.92		0.00		0.00		0.00		0.00		0.00	55.92
Sodium Bicarbonate	172.98		0.00		0.00		0.00		0.00		0.00	172.98
Omyacarb 1	253.68		0.00		0.00		0.00		0.00		0.00	253.68
Omyacarb 8	2029.44		0.00		0.00		0.00		0.00		0.00	2029.44
Omyacarb 10	181.20		0.00		0.00		0.00		0.00		0.00	181.20
Zinc Carbonate	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Flossy Salt	624.00		0.00		0.00		0.00		0.00		0.00	624.00
KCL-Welsh	6323.90		0.00		0.00		0.00		0.00		0.00	6323.90
KCL-Eden	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Conqor 303A	0.00	3	578.16		0.00		0.00		0.00		0.00	578.16
Omyacarb 40	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Circal 1000	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Circal Y Grade	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Safe Peel	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Wellzyme A	6996.00		0.00		0.00		0.00		0.00		0.00	6996.00
Cumulative Engineering			0.00		0.00		0.00		0.00		0.00	0.00
Daily Product			1018.37		0.00		0.00		0.00		0.00	151775.44
Daily Sales Tax			0		0		0		0		0	0.00
Cumulative Product			151775.44		151775.44		151775.44		151775.44		151775.44	151775.44
Cumulative Cost			151775.44		151775.44		151775.44		151775.44		151775.44	151775.44

Drilling Fluids

Product Consumption

Operator : OMV Australia
Well Name : Baleen # 3
Location : Bass Strait
Field/Area: Vic / L21

Contractor: Diamond Offshore
M-I Engineer: Voytek Czarny
Rig Name: Ocean Bounty
Stock Point: Geelong

	DATES											
Product	Previous	Jun 13, 2002		Jun 14, 2002		Jun 15, 2002		Jun 16, 2002		Jun 17, 2002		Page
Name	Page	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Totals
Barite Bulk	5770.80		0.00		0.00		0.00		0.00		0.00	5770.80
Gel Bulk	6893.88		0.00		0.00		0.00		0.00		0.00	6893.88
Calcium Chloride	311.78		0.00		0.00		0.00		0.00		0.00	311.78
Caustic Soda	294.44		0.00		0.00		0.00		0.00		0.00	294.44
Citric Acid	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Dual-Flo	11464.75		0.00		0.00		0.00		0.00		0.00	11464.75
Duotec	13097.48		0.00		0.00	5	963.05		0.00		0.00	14060.53
Defoam A	786.38		0.00		0.00		0.00		0.00		0.00	786.38
Flo-Vis Plus	38323.74		0.00		0.00	2	842.28		0.00		0.00	39166.02
Glute-25	677.50		0.00		0.00		0.00		0.00		0.00	677.50
Glydril LC	26121.48		0.00		0.00		0.00		0.00		0.00	26121.48
Guar Gum	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Kwik Seal Fine	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Kwik Sealk Medium	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Lime	39.84		0.00		0.00		0.00		0.00		0.00	39.84
Mix II Fine	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Mix II Medium	0.00		0.00		0.00		0.00		0.00		0.00	0.00
OS-1	511.04		0.00		0.00		0.00		0.00		0.00	511.04
Pipelax W	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Polyplus Dry	2112.30		0.00		0.00		0.00		0.00		0.00	2112.30
Polypac UL	3345.48		0.00		0.00		0.00		0.00		0.00	3345.48
KCL-Geel	20583.75		0.00		0.00		0.00		0.00		0.00	20583.75
Potassium Hydroxide	492.32		0.00		0.00		0.00		0.00		0.00	492.32
Safe Surf WN	3733.20		0.00		0.00		0.00		0.00		0.00	3733.20
Soda Ash	55.92		0.00		0.00		0.00		0.00		0.00	55.92
Sodium Bicarbonate	172.98		0.00		0.00		0.00		0.00		0.00	172.98
Omyacarb 1	253.68		0.00		0.00		0.00		0.00		0.00	253.68
Omyacarb 8	2029.44		0.00		0.00		0.00		0.00		0.00	2029.44
Omyacarb 10	181.20		0.00		0.00		0.00		0.00		0.00	181.20
Zinc Carbonate	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Flossy Salt	624.00		0.00		0.00		0.00		0.00		0.00	624.00
KCL-Welsh	6323.90		0.00		0.00		0.00		0.00		0.00	6323.90
KCL-Eden	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Conqor 303A	578.16		0.00		0.00		0.00		0.00		0.00	578.16
Omyacarb 40	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Circal 1000	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Circal Y Grade	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Safe Peel	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Wellzyme A	6996.00		0.00		0.00		0.00		0.00		0.00	6996.00
Cumulative Engineering			0.00		0.00		0.00		0.00		0.00	0.00
Daily Product			0.00		0.00		1805.33		0.00		0.00	153580.77
Daily Sales Tax			0		0		0		0		0	0.00
Cumulative Product			151775.44		151775.44		153580.77		153580.77		153580.77	153580.77
Cumulative Cost			151775.44		151775.44		153580.77		153580.77		153580.77	153580.77

Drilling Fluids

Product Consumption

Operator : OMV Australia
Well Name : Baleen # 3
Location : Bass Strait
Field/Area: Vic / L21

Contractor: Diamond Offshore
M-I Engineer: Voytek Czarny
Rig Name: Ocean Bounty
Stock Point: Geelong

	DATES											
Product	Previous	Jun 18, 2002		Jun 19, 2002								Page
Name	Page	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Totals
Barite Bulk	5770.80		0.00		0.00							5770.80
Gel Bulk	6893.88		0.00		0.00							6893.88
Calcium Chloride	311.78		0.00		0.00							311.78
Caustic Soda	294.44		0.00		0.00							294.44
Citric Acid	0.00		0.00		0.00							0.00
Dual-Flo	11464.75		0.00		0.00							11464.75
Duotec	14060.53		0.00		0.00							14060.53
Defoam A	786.38		0.00		0.00							786.38
Flo-Vis Plus	39166.02		0.00		0.00							39166.02
Glute-25	677.50		0.00		0.00							677.50
Glydril LC	26121.48		0.00		0.00							26121.48
Guar Gum	0.00		0.00		0.00							0.00
Kwik Seal Fine	0.00		0.00		0.00							0.00
Kwik Sealk Medium	0.00		0.00		0.00							0.00
Lime	39.84		0.00		0.00							39.84
Mix II Fine	0.00		0.00		0.00							0.00
Mix II Medium	0.00		0.00		0.00							0.00
OS-1	511.04		0.00		0.00							511.04
Pipelax W	0.00		0.00		0.00							0.00
Polyplus Dry	2112.30		0.00		0.00							2112.30
Polypac UL	3345.48		0.00		0.00							3345.48
KCL-Geel	20583.75		0.00		0.00							20583.75
Potassium Hydroxide	492.32		0.00		0.00							492.32
Safe Surf WN	3733.20		0.00		0.00							3733.20
Soda Ash	55.92		0.00		0.00							55.92
Sodium Bicarbonate	172.98		0.00		0.00							172.98
Omyacarb 1	253.68		0.00		0.00							253.68
Omyacarb 8	2029.44		0.00		0.00							2029.44
Omyacarb 10	181.20		0.00		0.00							181.20
Zinc Carbonate	0.00		0.00		0.00							0.00
Flossy Salt	624.00		0.00		0.00							624.00
KCL-Welsh	6323.90		0.00		0.00							6323.90
KCL-Eden	0.00		0.00		0.00							0.00
Conqor 303A	578.16		0.00		0.00							578.16
Omyacarb 40	0.00		0.00		0.00							0.00
Circal 1000	0.00		0.00		0.00							0.00
Circal Y Grade	0.00		0.00		0.00							0.00
Safe Peel	0.00		0.00		0.00							0.00
Wellzyme A	6996.00		0.00		0.00							6996.00
Cumulative Engineering			0.00		0.00							0.00
Daily Product			0.00		0.00							153580.77
Daily Sales Tax			0		0							0.00
Cumulative Product			153580.77		153580.77							153580.77
Cumulative Cost			153580.77		153580.77							153580.77

DAILY MUD REPORTS

Drilling Fluids

WATER-BASED MUD REPORT No. 1

Date	24/05/2002	Depth/TVD	111.5 m / 111.5 m
Spud Date	24/05/2002	Mud Type	SW & HV Sweeps
Water Depth	53	Activity	Cementing 30" casing

Operator : OMV Australia
Report For : Guy Howard & Gavin Othen
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews & R. Safar

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 36 in 26" Smith DSJC		Surface	Hole	Pump Make	JATIONAL 12P-16	JATIONAL 12P-16
Nozzles 3x24 /17 / 1/32"			140.4	Pump Size	6.5 X 12.in	6.5 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
in	m		-.4	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
5 in	m		-.4	Bottoms Up		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
9.5 in	m		971	Circulating Pressure		

MUD PROPERTIES

Sample From		24:00@Pit				
Flow Line Temp	°C					
Depth/TVD	m	111.5/111.5				
Mud Weight	sp.gr.	1.04				
Funnel Viscosity	s/qt	>100+				
Rheology Temp	°C					
R600/R300						
R200/R100						
R6/R3						
PV	cP					
YP	lb/100ft²					
10s/10m/30m Gel	lb/100ft²					
API Fluid Loss	cc/30 min					
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol					
MBT	lb/bbl					
pH						
Alkal Mud (Pm)						
Pf/Mf						
Chlorides	mg/l					
Hardness Ca	mg/l					
KCL	% by wt					
LSRV1	cP					
LSRV2	cP					
LSRV3	cP					

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
Gel Bulk	100 LB BG	570
Calcium Chloride	25 KG BG	16
Caustic Soda	25 KG DM	11
Lime	25 KG BG	2
Soda Ash	25 KG BG	4

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S		0
Thule VSM 100 S		0
Thule VSM 100 S		0
Thule VSM 100 S		0
D-Sander		0
D-Silter		0
Degasser		0

MUD PROPERTY SPECS

Weight	alap
Viscosity	>100 sec
Filtrate	n/c

REMARKS AND TREATMENT

Mixed 1639 bbl of mud.Drilled with seawater and pumping high viscosity sweeps at a rate of 50 bbl every 10 m.
Used Lime for flocculation.
Used 16 sx of CaCl2 for cementing.

REMARKS

Rigged up.Made up 26" bit with 36" HO and RIH to tag SB at 77.5 m. Drilled 36" hole to TD=111.5 m. Swept hole with 100 bbl HiVis flocculated mud.
Displaced hole to Hi Vis PHG.Made a wiper trip to 80 m.Run back.Fill =2 m.Spotted 200 bbl of unflocculated HiVis PHG.POOH for casing.Run and cemented 30" casing.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service	12	Oil Added	0	NaCl	.8/	np/na Values	
Drilling	1.5	Water Added	1576	KCl	/	kp/ka (lb•s^n/100ft²)	
Tripping	4	Mud Received	0	Low Gravity	/	Bit Loss (psi / %)	
Circulate	0.5	Dumped	0	Bentonite	/	Bit HHP (hhp / HSI)	
Running Casing	6	Shakers	0	Drill Solids	/	Bit Jet Vel (m/s)	
		Evaporation	0	Weight Material	NA/ NA	Ann. Vel DP (m/s)	
		Centrifuge	0	Chemical Conc	- /	Ann. Vel DC (m/s)	
		Formation	0	Inert/React		Crit Vel DP (m/s)	
		Left in Hole	0	Average SG		Crit Vel DC (m/s)	
		Sweeps	668	Carb/BiCarb (m mole/L)	/		

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Voytek Czarny Gordon Howie			$ 5,016.20	$ 5,016.20

Drilling Fluids

WATER-BASED MUD REPORT No. 2

Date	25/05/2002	Depth/TVD	336 m / 336 m
Spud Date	24/05/2002	Mud Type	SW & HV Sweeps
Water Depth	53	Activity	Run 13.3/8" Casing

Operator : OMV Australia
Report For : Guy Howard & Gavin Othen
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews & R. Safar

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 17.5 in Tricone		Surface	Hole	Pump Make	RATIONAL 12P-16	RATIONAL 12P-16
Nozzles 3x24 / 1/32"		30in @112m (112TVD)	307.9	Pump Size	6.5 X 12.in	6.5 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	5.016 gal/stk	5.016 gal/stk
5 in	m	13.375in @328m (328TVD)	.1	Pump stk/min	68@97%	68@97%
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	1023 gal/min	
5 in	m		.1	Bottoms Up	min 0 stk	
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	min 0 stk	
8 in	m		458	Circulating Pressure	2000 psi	

MUD PROPERTIES

Sample From		Pit@24:00				
Flow Line Temp	°C					
Depth/TVD	m	336/336				
Mud Weight	sp.gr.	1.04				
Funnel Viscosity	s/qt	>100+				
Rheology Temp	°C					
R600/R300						
R200/R100						
R6/R3						
PV	cP					
YP	lb/100ft²					
10s/10m/30m Gel	lb/100ft²					
API Fluid Loss	cc/30 min					
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol					
MBT	lb/bbl					
pH						
Alkal Mud (Pm)						
Pf/Mf						
Chlorides	mg/l					
Hardness Ca	mg/l					
KCL	% by wt					
LSRV1	cP					
LSRV2	cP					
LSRV3	cP					

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
Gel Bulk	100 LB BG	279
Calcium Chloride	25 KG BG	18
Caustic Soda	25 KG DM	3
Lime	25 KG BG	4
Soda Ash	25 KG BG	2

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S		0
Thule VSM 100 S		0
Thule VSM 100 S		0
Thule VSM 100 S		0
D-Sander		0
D-Silter		0
Degasser		0

MUD PROPERTY SPECS

Weight	alap
Viscosity	>100 sec
Filtrate	n/c

REMARKS AND TREATMENT

Mixed PHG. Pumped HiVis Sweeps as required.
Used CaCL2 for cementing.

REMARKS

Finished cemeting job.P/up 17.1/2" bit.RIH to tag cement at 109 m.Drilled out shoe track and drilled 17.1/2" hole from 112 m to TD 336 m. Hole good on connection with no drag.Pumped 100 bbl Hi Vis sweep.Spotted 320 bbl of unflocculated Hi Vis PHG.POOH.No drag-hole good.Run 13.3/8" casing.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service	0.5	Oil Added	0	NaCl	.8/	np/na Values	
Drilling	6.5	Water Added	500	KCl	/	kp/ka (lb•s^n/100ft²)	
Tripping	9.5	Mud Received	0	Low Gravity	/	Bit Loss (psi / %)	
Running Casing	7	Dumped	0	Bentonite	/	Bit HHP (hhp / HSI)	
Circulating	0.5	Shakers	0	Drill Solids	/	Bit Jet Vel (m/s)	
		Evaporation	0	Weight Material	NA/ NA	Ann. Vel DP (m/s)	
		Centrifuge	0	Chemical Conc	- /	Ann. Vel DC (m/s)	
		Formation	0	Inert/React		Crit Vel DP (m/s)	
		Left in Hole	0	Average SG		Crit Vel DC (m/s)	
		Sweeps	1044	Carb/BiCarb (m mole/L)	/		

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Voytek Czarny Gordon Howie			$ 2,527.70	$ 7,543.90

Drilling Fluids

WATER-BASED MUD REPORT No. 3

Date	26/05/2002	Depth/TVD	336 m / 336 m
Spud Date	24/05/2002	Mud Type	SW HV Sweeps
Water Depth	53	Activity	Testing connector

Operator : OMV Australia
Report For : Guy Howard & Gavin Othen
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews & R. Safar

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 17.5 in		Surface	Hole	Pump Make	JATIONAL 12P-16	JATIONAL 12P-16
Nozzles 1/32"		30in @112m (112TVD)	228.1	Pump Size	6.5 X 12.in	6.5 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
5 in	m	13.375in @328m (328TVD)	-58.1	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
5 in	m		-58.1	Bottoms Up		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
8 in	m		170	Circulating Pressure		

MUD PROPERTIES

Sample From		Pit@24:00				
Flow Line Temp	°C					
Depth/TVD	m	336/336				
Mud Weight	sp.gr.	1.04				
Funnel Viscosity	s/qt					
Rheology Temp	°C					
R600/R300						
R200/R100						
R6/R3						
PV	cP					
YP	lb/100ft²					
10s/10m/30m Gel	lb/100ft²					
API Fluid Loss	cc/30 min					
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol					
MBT	lb/bbl					
pH						
Alkal Mud (Pm)						
Pf/Mf						
Chlorides	mg/l					
Hardness Ca	mg/l					
KCL	% by wt					
LSRV1	cP					
LSRV2	cP					
LSRV3	cP					

PRODUCTS USED LAST 24 HRS

Products	Size	Amt

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S		0
Thule VSM 100 S		0
Thule VSM 100 S		0
Thule VSM 100 S		0
D-Sander		0
D-Silter		0
Degasser		0

MUD PROPERTY SPECS

Weight	alap
Viscosity	>100 sec
Filtrate	n/c

REMARKS AND TREATMENT

Dumped and cleaned tanks.Left 170 bbl of PHG for drilling out.
Start mixing new mud for the next interval.

REMARKS

Finished cementing job as per program.
Rigged up and run SST. Pressure tested connector.No success.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service	11	Oil Added	0	NaCl	.8/	np/na Values	
Drilling		Water Added	0	KCl	/	kp/ka (lb•s^n/100ft²)	
Tripping		Mud Received	0	Low Gravity	/	Bit Loss (psi / %)	
Cementing Job	13	Dumped	288	Bentonite	/	Bit HHP (hhp / HSI)	
		Shakers	0	Drill Solids	/	Bit Jet Vel (m/s)	
		Evaporation	0	Weight Material	NA/ NA	Ann. Vel DP (m/s)	
		Centrifuge	0	Chemical Conc	- /	Ann. Vel DC (m/s)	
		Formation	0	Inert/React		Crit Vel DP (m/s)	
		Left in Hole	0	Average SG		Crit Vel DC (m/s)	
		Sweeps	0	Carb/BiCarb (m mole/L)	/		

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Voytek Czarny Gordon Howie			$ 0.00	$ 7,543.90

Drilling Fluids

WATER-BASED MUD REPORT No. 4

Date	27/05/2002	Depth/TVD	336 m / 336 m
Spud Date	24/05/2002	Mud Type	KCL / PHPA / Glycol
Water Depth	53	Activity	Run BOP stack

Operator : OMV Australia
Report For : Guy Howard & Gavin Othen
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews & R. Safar

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 12.25 in		Surface	Hole	Pump Make	JATIONAL 12P-16	JATIONAL 12P-16
Nozzles 1/32"		30in @112m (112TVD)	224	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
5 in	m	13.375in @328m (328TVD)	-58	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
5 in	m		-58	Bottoms Up		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
8 in	m		1524	Circulating Pressure		

MUD PROPERTIES

Sample From		Pit@24:00				
Flow Line Temp	°C					
Depth/TVD	m	336/336				
Mud Weight	sp.gr.					
Funnel Viscosity	s/qt					
Rheology Temp	°C					
R600/R300						
R200/R100						
R6/R3						
PV	cP					
YP	lb/100ft²					
10s/10m/30m Gel	lb/100ft²					
API Fluid Loss	cc/30 min					
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol					
MBT	lb/bbl					
pH						
Alkal Mud (Pm)						
Pf/Mf						
Chlorides	mg/l					
Hardness Ca	mg/l					
KCL	% by wt					
LSRV1	cP					
LSRV2	cP					
LSRV3	cP					

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
Duotec	25 KG BG	42
Glydril LC	208 KG DM	32
OS-1	25 KG BG	10
Polyplus Dry	25 KG BG	20
Polypac UL	25 KG BG	26
KCL-Geel	1 TN BG	10
Potassium Hydroxide	25 KG DM	5
Sodium Bicarbonate	25 KG BG	10

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S		0
Thule VSM 100 S		0
Thule VSM 100 S		0
Thule VSM 100 S		0
D-Sander		0
D-Silter		0
Degasser		0

MUD PROPERTY SPECS

Weight	1.08-1.10
Viscosity	6rpm>16
Filtrate	< 8 ml

REMARKS AND TREATMENT

Mixing KCL/PHPA/Glycol mud in progress.Mud check will be run after shearing mud.

REMARKS

Working on SST.Running BOP stack.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service	24	Oil Added	0	NaCl	.8/	np/na Values	
Drilling		Water Added	1265	KCl	/	kp/ka (lb•s^n/100ft²)	
Tripping		Mud Received	0	Low Gravity	/	Bit Loss (psi / %)	
		Dumped	0	Bentonite	/	Bit HHP (hhp / HSI)	
		Shakers	0	Drill Solids	/	Bit Jet Vel (m/s)	
		Evaporation	0	Weight Material	NA/ NA	Ann. Vel DP (m/s)	
		Centrifuge	0	Chemical Conc	- /	Ann. Vel DC (m/s)	
		Formation	0	Inert/React		Crit Vel DP (m/s)	
		Left in Hole	0	Average SG		Crit Vel DC (m/s)	
		Sweeps	0	Carb/BiCarb (m mole/L)	/		

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Voytek Czarny Gordon Howie			$ 35,120.88	$ 42,664.78

Drilling Fluids

WATER-BASED MUD REPORT No. 5

Date	28/05/2002	Depth/TVD	336 m / 336 m
Spud Date	24/05/2002	Mud Type	KCL / PHPA / Glycol
Water Depth	53	Activity	RIH to drill out

Operator : OMV Australia
Report For : Ron King & Gavin Othen
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews & R. Safar

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 12.25 in 3		Surface	Hole	Pump Make	JATIONAL 12P-16	JATIONAL 12P-16
Nozzles 1/32"		30in @112m (112TVD)	224	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
5 in	m	13.375in @328m (328TVD)	-58	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
5 in	m		-58	Bottoms Up		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
8 in	m		1524	Circulating Pressure		

MUD PROPERTIES

Sample From		Pit@24:00	Pit@20:00
Flow Line Temp	°C		
Depth/TVD	m	336/336	336/336
Mud Weight	sp.gr.	1.06@20°C	1.06@20°C
Funnel Viscosity	s/qt	92	92
Rheology Temp	°C	46.1	20
R600/R300		43/32	60/44
R200/R100		27/21	36/27
R6/R3		8/7	11/9
PV	cP	11	16
YP	lb/100ft²	21	28
10s/10m/30m Gel	lb/100ft²	7/11/11	9/14/14
API Fluid Loss	cc/30 min	10	10
HTHP FL Temp	cc/30 min		
Cake API/HTHP	1/32"	0.2/	0.2/
Solids	%Vol	3.3	3.3
Oil/Water	%Vol	/96.7	/96.7
Sand	%Vol	0	0
MBT	lb/bbl	0	0
pH		9.5	9.5
Alkal Mud (Pm)		0.12	0.12
Pf/Mf		0.1/0.4	0.1/0.4
Chlorides	mg/l	37000	37000
Hardness Ca	mg/l	280	280
KCL	% by wt	5	5
LSRV1	cP	0.6	0.6
LSRV2	cP	3	3
LSRV3	cP	10	10

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
Barite Bulk	100 LB BG	578

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	84/84/84/84	0
Thule VSM 100 S	84/84/84/84	0
Thule VSM 100 S	84/84/84/84	0
Thule VSM 100 S	50/50/50/50	0
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.08-1.10
Viscosity	6rpm>16
Filtrate	< 8 ml

REMARKS AND TREATMENT

Shearing mud.Dressed shakers.Run mud check on cool mud at 68 F and 120 F before displacement.

REMARKS

Run BOP stack and tested same.M/up BHA and RIH to drill out cement.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service	1.5	Oil Added	0	NaCl	.6/ 7.	np/na Values	
Drilling		Water Added	0	KCl	1.9/ 17.8	kp/ka (lb•s^n/100ft²)	
Tripping	5	Mud Received	0	Low Gravity	.6/ 5.2	Bit Loss (psi / %)	
BOP NU	14.5	Dumped	0	Bentonite	./ .	Bit HHP (hhp / HSI)	
BOP Testing	3	Shakers	0	Drill Solids	.1/ .8	Bit Jet Vel (m/s)	
		Evaporation	0	Weight Material	.2/ 3.	Ann. Vel DP (m/s)	
		Centrifuge	0	Chemical Conc	- / 4.5	Ann. Vel DC (m/s)	
		Formation	0	Inert/React	-	Crit Vel DP (m/s)	
		Left in Hole	0	Average SG	3.1	Crit Vel DC (m/s)	
		Sweeps	0	Carb/BiCarb (m mole/L)	2./ 3.1		

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Voytek Czarny Gordon Howie			$ 3,641.40	$ 46,306.18

Drilling Fluids

WATER-BASED MUD REPORT No. 6

Date	29/05/2002	Depth/TVD	542 m / 519 m
Spud Date	24/05/2002	Mud Type	KCL / PHPA / Glycol
Water Depth	53	Activity	Drilling 12.1/4"

Operator : OMV Australia
Report For : Ron King & Gavin Othen
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews & R. Safar

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY

Bit Size 12.25 in Reed		
Nozzles 3x15 /24x1 / 1/32"		
Drill Pipe Size	Length	
5 in	374 m	
Drill Pipe Size	Length	
5 in	144 m	
Drill Collar Size	Length	
8 in	25 m	

CASING

Surface
30in @112m (112TVD)
Intermediate
13.375in @328m (328TVD)
Intermediate
Production or Liner

MUD VOLUME (bbl)

Hole
302.4
Active Pits
715.6
Total Circulating Vol
1018
In Storage
465

CIRCULATION DATA

Pump Make	NATIONAL 12P-160	NATIONAL 12P-160
Pump Size	6 X 12.in	6 X 12.in
Pump Cap	4.274 gal/stk	4.274 gal/stk
Pump stk/min	62@97%	62@97%
Flow Rate	799 gal/min	
Bottoms Up	14.5 min	2715 stk
Total Circ Time	53.5 min	10007 stk
Circulating Pressure	1725 psi	

MUD PROPERTIES

Sample From		FL@24:00	FL@15:00
Flow Line Temp	°C	30	30
Depth/TVD	m	542/519	358/357
Mud Weight	sp.gr.	1.06@30°C	1.06@30°C
Funnel Viscosity	s/qt	54	57
Rheology Temp	°C	46.1	46.1
R600/R300		48/36	50/36
R200/R100		31/24	30/22
R6/R3		9/7	8/6
PV	cP	12	14
YP	lb/100ft²	24	22
10s/10m/30m Gel	lb/100ft²	7/11/12	6/10/12
API Fluid Loss	cc/30 min	5.8	6.4
HTHP FL Temp	cc/30 min	-@-°C	-@-°C
Cake API/HTHP	1/32"	0.5/-	0.5/-
Solids	%Vol	3.4	3.4
Oil/Water	%Vol	/96.6	/96.6
Sand	%Vol	0	0
MBT	lb/bbl	1	0
pH		9.5	8.5
Alkal Mud (Pm)		0.2	0.15
Pf/Mf		0.15/0.5	0.1/0.5
Chlorides	mg/l	36000	36000
Hardness Ca	mg/l	400	400
KCL	% by wt	5.5	5.5
LSRV1	cP	1.0	0.6
LSRV2	cP	3	3
LSRV3	cP	10	10

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
Barite Bulk	100 LB BG	100
Duotec	25 KG BG	16
Glydril LC	208 KG DM	8
OS-1	25 KG BG	2
Polypac UL	25 KG BG	10
KCL-Geel	1 TN BG	3
Potassium Hydroxide	25 KG DM	7
Sodium Bicarbonate	25 KG BG	2

SOLIDS EQUIP

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	84/84/84/84	9
Thule VSM 100 S	84/84/84/84	9
Thule VSM 100 S	120/120/120/120	9
Thule VSM 100 S	84/84/84/84	9
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.08-1.10
Viscosity	6rpm>16
Filtrate	< 8 ml

REMARKS AND TREATMENT

Drilled out cement with sea water pumping HiVis PHG sweeps as required. Adding fresh premix of PHPA. Adding Duotec to bring 6 rpm readings up. Used Barite for slug.

REMARKS

M/up 12.1/4" BHA and RIH to tag cmt at 298.4 m. Drilled out with sea water. Pumped 50 bbl PHG spacer and displaced to new mud at 340 m. Performed FIT to EMW = 1.74 SG. Drilled to 458 m. Not enough angle.Slug.POOH.Hole good.Changed angle from 1.15 to 1.5 and drilled to 514 m. POH to 443 m. Reamed to 488. Drilled to 542 m.Hole good on connection. Max angle=38.6

TIME DISTR

	Last 24 Hrs
Rig Up/Service	4.5
Drilling	8
Tripping	10.5
Circulating	1

MUD VOL ACCTG

	(bbl)
Oil Added	0
Water Added	213
Mud Received	0
Dumped	0
Shakers	115
Evaporation	0
Centrifuge	0
Formation	0
Left in Hole	0
Sweeps	170

SOLIDS ANALYSIS (%/lb/bbl)

NaCl	.4/ 5.1
KCl	2.1/ 19.6
Low Gravity	.7/ 6.
Bentonite	.1/ .9
Drill Solids	.1/ .6
Weight Material	.2/ 2.7
Chemical Conc	- / 4.5
Inert/React	.5232
Average SG	3.02
Carb/BiCarb (m mole/L)	3./ 4.7

MUD RHEOLOGY & HYDRAULICS

np/na Values	0.415/0.351
kp/ka (lb•s^n/100ft²)	2.886/4.211
Bit Loss (psi / %)	1809 / 104.9
Bit HHP (hhp / HSI)	843 / 7.2
Bit Jet Vel (m/s)	146
Ann. Vel DP (m/s)	.8
Ann. Vel DC (m/s)	1.16
Crit Vel DP (m/s)	2
Crit Vel DC (m/s)	2
ECD @ 542 (sp.gr.)	1.08

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Voytek Czarny Gordon Howie			$ 10,725.75	$ 57,031.93

Drilling Fluids

WATER-BASED MUD REPORT No. 7

Date	30/05/2002	Depth/TVD	871 m / 682 m
Spud Date	24/05/2002	Mud Type	KCL / PHPA / Glycol
Water Depth	53	Activity	Wiper trip

Operator : OMV Australia
Report For : Ron King & Gavin Othen
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews & R. Safar

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY

Bit Size 12.25 in Reed	
Nozzles 3x15 /24x1 / 1/32"	
Drill Pipe Size	Length
5 in	703 m
Drill Pipe Size	Length
5 in	144 m
Drill Collar Size	Length
8 in	25 m

CASING

Surface
30in @112m (112TVD)
Intermediate
13.375in @328m (328TVD)
Intermediate
Production or Liner

MUD VOLUME (bbl)

Hole
452.7
Active Pits
579.3
Total Circulating Vol
1032
In Storage
365

CIRCULATION DATA

Pump Make	NATIONAL 12P-160	NATIONAL 12P-160
Pump Size	6 X 12.in	6 X 12.in
Pump Cap	4.274 gal/stk	4.274 gal/stk
Pump stk/min	65@97%	65@97%
Flow Rate	838 gal/min	
Bottoms Up	20.4 min	4002 stk
Total Circ Time	51.7 min	10138 stk
Circulating Pressure	1950 psi	

MUD PROPERTIES

Sample From		Fl@23:00	Fl@15:00	Fl@11:30	FL@06:30
Flow Line Temp	°C	30	30	30	30
Depth/TVD	m	871/682	794/662	717/632	643/564
Mud Weight	sp.gr.	1.16@30°C	1.09@30°C	1.08@30°C	1.06@30°C
Funnel Viscosity	s/qt	67	64	60	56
Rheology Temp	°C	46.1	46.1	46.1	46.1
R600/R300		75/57	61/46	58/44	50/38
R200/R100		49/38	39/30	37/29	33/25
R6/R3		14/12	11/9	11/9	10/8
PV	cP	18	15	14	12
YP	lb/100ft²	39	31	30	26
10s/10m/30m Gel	lb/100ft²	12/18/20	9/12/14	9/13/14	8/12/14
API Fluid Loss	cc/30 min	4.6	4.8	5.0	5.2
HTHP FL Temp	cc/30 min	-@-°C	-@-°C	-@-°C	-@-°C
Cake API/HTHP	1/32"	1/-	1/-	0.5/-	0.5/-
Solids	%Vol	7	5	4.4	4
Oil/Water	%Vol	/93	/95	/95.6	/96
Sand	%Vol	Tr	Tr	Tr	Tr
MBT	lb/bbl	5	5	5	5
pH		9.5	9.5	9.5	9.5
Alkal Mud (Pm)		0.12	0.12	0.2	0.2
Pf/Mf		0.1/0.5	0.1/0.5	0.1/0.6	0.1/0.6
Chlorides	mg/l	38000	38000	37000	37000
Hardness Ca	mg/l	720	680	420	420
KCL	% by wt	5.5	5.5	5.5	5.5
LSRV1	cP	0.8	0.8	0.8	0.8
LSRV2	cP	3	3	3	3
LSRV3	cP	10	10	10	10

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
Duotec	25 KG BG	8
Glydril LC	208 KG DM	2
Polyplus Dry	25 KG BG	10

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	84/84/84/84	23
Thule VSM 100 S	84/84/84/84	23
Thule VSM 100 S	120/120/120/120	23
Thule VSM 100 S	84/84/84/84	23
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.08-1.10
Viscosity	6rpm>16
Filtrate	< 8 ml

REMARKS AND TREATMENT

Keep adding Duotec to increase 6 rpm > 12.
Added Glydril to maintain 3 % in active.
Added Polyplus to encapsulate cuttings.
Weighted mud to 1.15 SG with Barite-Mud weight established at 1.16 SG.

REMARKS

Directional drilling 542 - 855 m.Circulated out 9% of gas.
Drilled 855 to TD 871 m.Circulated out 21% of gas.Increased MW to 1.15 SG with Barite. Made a wiper trip before running 9.5/8" csg.Hole good. Max. angle=76 deg

TIME DISTR	Last 24 Hrs
Rig Up/Service	
Drilling	18.5
Tripping	1
Circulating	4.5

MUD VOL ACCTG	(bbl)
Oil Added	0
Water Added	30
Mud Received	0
Dumped	0
Shakers	122
Evaporation	0
Centrifuge	0
Formation	0
Left in Hole	0
Sweeps	0

SOLIDS ANALYSIS (%/lb/bbl)	
NaCl	.5/ 6.
KCl	2.1/ 18.8
Low Gravity	1.7/ 15.5
Bentonite	.5/ 4.3
Drill Solids	.7/ 6.7
Weight Material	2.7/ 40.4
Chemical Conc	- / 4.5
Inert/React	1.1924
Average SG	3.63
Carb/BiCarb (m mole/L)	2./ 3.1

MUD RHEOLOGY & HYDRAULICS	
np/na Values	0.396/0.329
kp/ka (lb•s^n/100ft²)	5.149/7.490
Bit Loss (psi / %)	2178 / 111.7
Bit HHP (hhp / HSI)	1065 / 9
Bit Jet Vel (m/s)	153
Ann. Vel DP (m/s)	.83
Ann. Vel DC (m/s)	1.21
Crit Vel DP (m/s)	2
Crit Vel DC (m/s)	2
ECD @ 871 (sp.gr.)	1.21

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Voytek Czarny Gordon Howie			$ 3,488.86	$ 60,520.79

Drilling Fluids

WATER-BASED MUD REPORT No. 8

Date	31/05/2002	Depth/TVD	871 m / 682 m
Spud Date	24/05/2002	Mud Type	KCL / PHPA / Glycol
Water Depth	53	Activity	Testing BOP

Operator : OMV Australia
Report For : Ron King & Gavin Othen
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews & R. Safar

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY

Bit Size 12.25 in Reed		
Nozzles 1/32"		
Drill Pipe Size	Length	
5 in	m	
Drill Pipe Size	Length	
5 in	m	
Drill Collar Size	Length	
8 in	m	

CASING

Surface
30in @112m (112TVD)
Intermediate
13.375in @328m (328TVD)
Intermediate
9.625in @866m (678TVD)
Production or Liner

MUD VOLUME (bbl)

Hole	291.1
Active Pits	413.9
Total Circulating Vol	413.9
In Storage	163

CIRCULATION DATA

Pump Make	↓ATIONAL 12P-16	↓ATIONAL 12P-16
Pump Size	6 X 12.in	6 X 12.in
Pump Cap	gal/stk	gal/stk
Pump stk/min		
Flow Rate	gal/min	
Bottoms Up		
Total Circ Time		
Circulating Pressure		

MUD PROPERTIES

Sample From		Pit@23:00
Flow Line Temp	°C	
Depth/TVD	m	871/682
Mud Weight	sp.gr.	1.16@30°C
Funnel Viscosity	s/qt	66
Rheology Temp	°C	46.1
R600/R300		74/56
R200/R100		48/38
R6/R3		13/12
PV	cP	18
YP	lb/100ft²	38
10s/10m/30m Gel	lb/100ft²	12/17/21
API Fluid Loss	cc/30 min	4.6
HTHP FL Temp	cc/30 min	-@-°C
Cake API/HTHP	1/32"	1/-
Solids	%Vol	7
Oil/Water	%Vol	/93
Sand	%Vol	Tr
MBT	lb/bbl	5
pH		9.5
Alkal Mud (Pm)		0.12
Pf/Mf		0.1/0.5
Chlorides	mg/l	38000
Hardness Ca	mg/l	720
KCL	% by wt	5.5
LSRV1	cP	0.6
LSRV2	cP	3
LSRV3	cP	10

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
Barite Bulk	100 LB BG	238

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	84/84/84/84	2
Thule VSM 100 S	84/84/84/84	2
Thule VSM 100 S	120/120/120/120	2
Thule VSM 100 S	84/84/84/84	2
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.08-1.10
Viscosity	6rpm>16
Filtrate	< 8 ml

REMARKS AND TREATMENT

Dumped old mud and cleaned pits.Started mixing Flo-Pro system. Barite usage for yesterday weighting up.

REMARKS

Finished wiper trip.POOH.R/up and Run 9.5/8" casing.Hole good.Cementing job as per program. Testing seal assembly and BOP.

TIME DISTR	Last 24 Hrs
Rig Up/Service	0.5
Drilling	
Tripping	8.5
Circulating	1.5
Running Casing	13.5

MUD VOL ACCTG	(bbl)
Oil Added	0
Water Added	0
Mud Received	0
Dumped	433
Shakers	96
Evaporation	0
Centrifuge	0
Formation	0
Left in Hole	0
Sweeps	0

SOLIDS ANALYSIS (%/lb/bbl)	
NaCl	.5/ 6.
KCl	2.1/ 18.8
Low Gravity	1.7/ 15.5
Bentonite	.5/ 4.3
Drill Solids	.7/ 6.7
Weight Material	2.7/ 40.4
Chemical Conc	- / 4.5
Inert/React	1.1924
Average SG	3.63
Carb/BiCarb (m mole/L)	2./ 3.1

MUD RHEOLOGY & HYDRAULICS	
np/na Values	
kp/ka (lb•s^n/100ft²)	
Bit Loss (psi / %)	
Bit HHP (hhp / HSI)	
Bit Jet Vel (m/s)	
Ann. Vel DP (m/s)	
Ann. Vel DC (m/s)	
Crit Vel DP (m/s)	
Crit Vel DC (m/s)	

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Voytek Czarny Gordon Howie			$ 1,499.40	$ 62,020.19

Drilling Fluids

WATER-BASED MUD REPORT No. 9

Date	1/06/2002	Depth/TVD	919 m / 684 m
Spud Date	24/05/2002	Mud Type	Flo-Pro system
Water Depth	53	Activity	Work on TDS

Operator : OMV Australia
Report For : Ron King & Gavin Othen
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews & R. Safar

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY

Bit Size 8.5 in Reed	
Nozzles 3x14 / 1/32"	
Drill Pipe Size	Length
5 in	827 m
Drill Pipe Size	Length
5 in	92 m
Drill Collar Size	Length
in	m

CASING

Surface
30in @112m (112TVD)
Intermediate
13.375in @328m (328TVD)
Intermediate
9.625in @866m (678TVD)
Production or Liner

MUD VOLUME (bbl)

Hole
278.6
Active Pits
653.4
Total Circulating Vol
932
In Storage
508

CIRCULATION DATA

Pump Make	NATIONAL 12P-16	NATIONAL 12P-16
Pump Size	6 X 12.in	6 X 12.in
Pump Cap	4.274 gal/stk	4.274 gal/stk
Pump stk/min	61@97%	61@97%
Flow Rate	521 gal/min	
Bottoms Up	18.4 min	2240 stk
Total Circ Time	75.1 min	9166 stk
Circulating Pressure	1700 psi	

MUD PROPERTIES

Sample From		FL@22:30
Flow Line Temp	°C	30
Depth/TVD	m	919/684
Mud Weight	sp.gr.	1.11@30°C
Funnel Viscosity	s/qt	84
Rheology Temp	°C	46.1
R600/R300		66/53
R200/R100		47/37
R6/R3		20/18
PV	cP	13
YP	lb/100ft²	40
10s/10m/30m Gel	lb/100ft²	18/22/23
API Fluid Loss	cc/30 min	4.8
HTHP FL Temp	cc/30 min	-@-°C
Cake API/HTHP	1/32"	0.5/-
Solids	%Vol	5
Oil/Water	%Vol	/95
Sand	%Vol	0
MBT	lb/bbl	1.25
pH		9.5
Alkal Mud (Pm)		0.12
Pf/Mf		0.1/1.0
Chlorides	mg/l	78000
Hardness Ca	mg/l	360
KCL	% by wt	15
LSRV1	cP	75200
LSRV2	cP	89120
LSRV3	cP	91500

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
Dual-Flo	50 LB BG	89
Defoam A	25 LT DM	4
Flo-Vis Plus	25 KG BG	68
Glute-25	25 LT DM	5
KCL-Geel	1 TN BG	3
Potassium Hydroxide	25 KG DM	4
Sodium Bicarbonate	25 KG BG	5
Omyacarb 1	25 KG BG	39
Omyacarb 8	25 KG BG	300
Omyacarb 10	25 KG BG	29
KCL-Welsh	1 TN BK	22

SOLIDS EQUIP

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	84/84/84/84	5
Thule VSM 100 S	84/84/84/84	5
Thule VSM 100 S	120/120/120/120	5
Thule VSM 100 S	84/84/84/84	5
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.08
Viscosity	3 rpm>22
Filtrate	< 5 ml

REMARKS AND TREATMENT

Drilled out with old mud.Displaced to Flo-Pro.
Dumped old mud.

REMARKS

Finished testing BOP and surface equipment. P/up 8.1/2" bit and RIH to tag cement at 842 m. Drilled out cement with old mud. Drilled to 873 m. Pumped 50 bbl Hi Vis pill and displaced to Flo-Pro mud. Performed FIT to 1.46 SG.Drilled 8.1/2" hole to 919 m. Trouble shoot TDS. Worked on TDS fault.

TIME DISTR

TIME DISTR	Last 24 Hrs
Rig Up/Service	4
Drilling	3.75
Tripping	5
Circulating	1.25
Testing	3.5
Casing	5
Rig Repair	1.5

MUD VOL ACCTG

MUD VOL ACCTG	(bbl)
Oil Added	0
Water Added	1218
Mud Received	0
Dumped	772
Shakers	0
Evaporation	0
Centrifuge	0
Formation	0
Left in Hole	0
Sweeps	0

SOLIDS ANALYSIS (%/lb/bbl)

NaCl	./ .1
KCl	6.4/ 56.8
Low Gravity	.8/ 7.5
Bentonite	.1/ 1.1
Drill Solids	.1/ 1.4
Weight Material	NA/ NA
Chemical Conc	- / 5.
Inert/React	.9792
Average SG	2.7
Carb/BiCarb (m mole/L)	2./ 3.1

MUD RHEOLOGY & HYDRAULICS

np/na Values	0.316/0.205
kp/ka (lb•s^n/100ft²)	7.858/13.736
Bit Loss (psi / %)	1138 / 67
Bit HHP (hhp / HSI)	346 / 6.1
Bit Jet Vel (m/s)	113
Ann. Vel DP (m/s)	1.37
Ann. Vel DC (m/s)	1.37
Crit Vel DP (m/s)	2
Crit Vel DC (m/s)	2
ECD @ 919 (sp.gr.)	1.25

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Voytek Czarny Gordon Howie			$ 47,167.56	$ 109,187.75

Drilling Fluids

WATER-BASED MUD REPORT No. 10

Date	2/06/2002	Depth/TVD	1287 m / 672 m
Spud Date	24/05/2002	Mud Type	Flo-Pro system
Water Depth	53	Activity	Drilling 8.1/2" Hole

Operator : OMV Australia
Report For : Ron King & Gavin Othen
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews & R. Safar

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY

Bit Size 8.5 in Reed		
Nozzles 3x14 / 1/32"		
Drill Pipe Size	Length	
5 in	1195 m	
Drill Pipe Size	Length	
5 in	92 m	
Drill Collar Size	Length	
in	m	

CASING

Surface
30in @112m (112TVD)
Intermediate
13.375in @328m (328TVD)
Intermediate
9.625in @866m (678TVD)
Production or Liner

MUD VOLUME (bbl)

Hole
355.4
Active Pits
624.6
Total Circulating Vol
980
In Storage
526

CIRCULATION DATA

Pump Make	RATIONAL 12P-16	RATIONAL 12P-16
Pump Size	6 X 12.in	6 X 12.in
Pump Cap	4.274 gal/stk	4.274 gal/stk
Pump stk/min	70@97%	70@97%
Flow Rate	598 gal/min	
Bottoms Up	19.9 min	2784 stk
Total Circ Time	68.8 min	9636 stk
Circulating Pressure	2440 psi	

MUD PROPERTIES

Sample From		FL@24:00	FL@15:00	FL@08:30
Flow Line Temp	°C	48	48	48
Depth/TVD	m	1287/672	1115/677	998/681
Mud Weight	sp.gr.	1.16@48°C	1.15@48°C	1.12@32°C
Funnel Viscosity	s/qt	64	67	83
Rheology Temp	°C	46.1	46.1	46.1
R600/R300		68/56	67/55	68/54
R200/R100		49/40	48/38	47/39
R6/R3		22/19	21/19	20/18
PV	cP	12	12	14
YP	lb/100ft²	44	43	40
10s/10m/30m Gel	lb/100ft²	19/25/29	19/26/31	18/25/28
API Fluid Loss	cc/30 min	4.6	4.8	5
HTHP FL Temp	cc/30 min	-@-°C	-@-°C	-@-°C
Cake API/HTHP	1/32"	0.5/-	0.5/-	0.5/-
Solids	%Vol	6	5	5
Oil/Water	%Vol	/94	/95	/95
Sand	%Vol	Tr	Tr	Tr
MBT	lb/bbl	4.5	4	1.25
pH		9.5	9.5	9.5
Alkal Mud (Pm)		0.12	0.14	0.12
Pf/Mf		0.1/1.1	0.1/1.0	0.1/1.1
Chlorides	mg/l	80000	79000	78000
Hardness Ca	mg/l	560	480	360
KCL	% by wt	15	15	15
LSRV1	cP	78500	74300	71200
LSRV2	cP	91200	88750	89000
LSRV3	cP	91580	91000	92500

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
KCL-Geel	1 TN BG	7
Omyacarb 1	25 KG BG	3
Omyacarb 8	25 KG BG	36
Omyacarb 10	25 KG BG	1
Flossy Salt	25 KG BG	96

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	120/120/120/120	21
Thule VSM 100 S	120/120/120/120	21
Thule VSM 100 S	120/120/120/120	21
Thule VSM 100 S	84/84/84/84	21
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.08
Viscosity	3 rpm>22
Filtrate	< 5 ml

REMARKS AND TREATMENT

Adding premix to maintain Low shear range viscosity for cleaning hole.
Mixed 236 bbl of 1.15 SG Brine as per Co.Man instruction.

REMARKS

Repaired TDS.Drilled 919-1110 m.Circulated sample out.Drilled to 1287 m. Hole good on connection. Max.gas 11%. Max angle=93.7 deg

TIME DISTR	Last 24 Hrs
Rig Up/Service	
Drilling	20
Tripping	
Circulating	1
Rig Repair	3

MUD VOL ACCTG	(bbl)
Oil Added	0
Water Added	216
Mud Received	0
Dumped	33
Shakers	148
Evaporation	0
Centrifuge	0
Formation	0
Left in Hole	0
Sweeps	0

SOLIDS ANALYSIS (%/lb/bbl)	
NaCl	.1/ 1.1
KCl	6.2/ 55.
Low Gravity	3.8/ 34.8
Bentonite	.1/ 1.3
Drill Solids	3./ 28.5
Weight Material	NA/ NA
Chemical Conc	- / 5.
Inert/React	5.6225
Average SG	2.7
Carb/BiCarb (m mole/L)	2./ 3.1

MUD RHEOLOGY & HYDRAULICS	
np/na Values	0.280/0.212
kp/ka (lb•s^n/100ft²)	10.416/14.339
Bit Loss (psi / %)	1567 / 64.2
Bit HHP (hhp / HSI)	547 / 9.6
Bit Jet Vel (m/s)	130
Ann. Vel DP (m/s)	1.58
Ann. Vel DC (m/s)	1.58
Crit Vel DP (m/s)	3
Crit Vel DC (m/s)	3
ECD @ 1287 (sp.gr.)	1.39

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Voytek Czarny Gordon Howie			$ 2,786.75	$ 111,974.50

Drilling Fluids

WATER-BASED MUD REPORT No. 11

Date	3/06/2002	Depth/TVD	1144 m / 700 m
Spud Date	24/05/2002	Mud Type	Flo-Pro system
Water Depth	53	Activity	Drilling 8.1/2" Hole

Operator : OMV Australia
Report For : Ron King & Gavin Othen
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews & R. Safar

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY

Bit Size 8.5 in Reed	
Nozzles 3x14 / 1/32"	
Drill Pipe Size	Length
5 in	1052 m
Drill Pipe Size	Length
5 in	92 m
Drill Collar Size	Length
in	m

CASING

Surface
30in @112m (112TVD)
Intermediate
13.375in @328m (328TVD)
Intermediate
9.625in @866m (678TVD)
Production or Liner

MUD VOLUME (bbl)

Hole
325.6
Active Pits
645.4
Total Circulating Vol
971
In Storage
491

CIRCULATION DATA

Pump Make	NATIONAL 12P-16	NATIONAL 12P-16
Pump Size	6 X 12.in	6 X 12.in
Pump Cap	4.274 gal/stk	4.274 gal/stk
Pump stk/min	70@97%	70@97%
Flow Rate	598 gal/min	
Bottoms Up	18.4 min	2572 stk
Total Circ Time	68.2 min	9548 stk
Circulating Pressure	2388 psi	

MUD PROPERTIES

		Fl@24:00	FL@12:00
Sample From			
Flow Line Temp	°C	50	50
Depth/TVD	m	1144/700	1352/672
Mud Weight	sp.gr.	1.18@50°C	1.17@50°C
Funnel Viscosity	s/qt	62	64
Rheology Temp	°C	46.1	46.1
R600/R300		67/52	68/56
R200/R100		45/37	49/40
R6/R3		19/16	22/19
PV	cP	15	12
YP	lb/100ft²	37	44
10s/10m/30m Gel	lb/100ft²	16/26/29	12/25/29
API Fluid Loss	cc/30 min	5	4.6
HTHP FL Temp	cc/30 min	-@-°C	-@-°C
Cake API/HTHP	1/32"	0.5/-	0.5/-
Solids	%Vol	7	6
Oil/Water	%Vol	/93	/94
Sand	%Vol	Tr	Tr
MBT	lb/bbl	5	4.5
pH		9.5	9.5
Alkal Mud (Pm)		0.12	0.12
Pf/Mf		0.1/1.1	0.1/1.1
Chlorides	mg/l	84000	80000
Hardness Ca	mg/l	520	560
KCL	% by wt	15	15
LSRV1	cP	67120	78600
LSRV2	cP	74684	91000
LSRV3	cP	73500	91500

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
Dual-Flo	50 LB BG	8
Flo-Vis Plus	25 KG BG	4
Glute-25	25 LT DM	3

SOLIDS EQUIP

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	120/120/120/120	12
Thule VSM 100 S	120/120/120/120	12
Thule VSM 100 S	120/120/120/120	12
Thule VSM 100 S	84/84/84/84	0
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.08
Viscosity	3 rpm>22
Filtrate	< 5 ml

REMARKS AND TREATMENT

Added Glute to prevent polymers against bacteria attack.Added premix of 1.08 SG KCL polymer mud to control MW and build up of fine solids.

REMARKS

Drilled 1287 to TD 1352 m. CBUP.POH to 1050. Circulated for logs 1050-1200 m.POOH.Inspect motor.Decision was made to RIH to kick off 1165 m.
No success.POH to 1137 m to kick off to make a sidetrack.
Drilled 8.1/2" hole 1137 to 1144 m.

TIME DISTR Last 24 Hrs

Rig Up/Service	
Drilling	
Tripping	
Circulating	
Rig Repair	

MUD VOL ACCTG (bbl)

Oil Added	0
Water Added	100
Mud Received	0
Left in Hole	50
Sweeps	0
Dumped	0
Shakers	96
Evaporation	0
Centrifuge	0
Formation	0

SOLIDS ANALYSIS (%/lb/bbl)

NaCl	.3/ 3.2
KCl	6.2/ 54.3
Low Gravity	4.8/ 44.
Bentonite	.1/ .8
Drill Solids	4./ 38.2
Weight Material	NA/ NA
Chemical Conc	- / 5.
Inert/React	6.7906
Average SG	2.7
Carb/BiCarb (m mole/L)	2./ 3.1

MUD RHEOLOGY & HYDRAULICS

np/na Values	0.366/0.239
kp/ka (lb•s^n/100ft²)	5.673/11.559
Bit Loss (psi / %)	1594 / 66.8
Bit HHP (hhp / HSI)	556 / 9.8
Bit Jet Vel (m/s)	130
Ann. Vel DP (m/s)	1.58
Ann. Vel DC (m/s)	1.58
Crit Vel DP (m/s)	2
Crit Vel DC (m/s)	2
ECD @ 1144 (sp.gr.)	1.36

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Voytek Czarny Gordon Howie			$ 2,645.81	$ 114,620.31

Drilling Fluids

WATER-BASED MUD REPORT No. 12

Date	4/06/2002	Depth/TVD	1555 m / 709 m
Spud Date	24/05/2002	Mud Type	Flo-Pro system
Water Depth	53	Activity	Wiper trip

Operator : OMV Australia
Report For : Ron King & John Kendrick
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 8.5 in Reed		Surface	Hole	Pump Make	RATIONAL 12P-16	RATIONAL 12P-16
Nozzles 3x14 / 1/32"		30in @112m (112TVD)	411.4	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	4.274 gal/stk	4.274 gal/stk
5 in	1463 m	13.375in @328m (328TVD)	772.6	Pump stk/min	70@97%	70@97%
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	598 gal/min	
5 in	92 m	9.625in @866m (678TVD)	1184	Bottoms Up	22.7 min	3181 stk
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	83.2 min	11642 stk
in	m		731	Circulating Pressure	2550 psi	

MUD PROPERTIES

Sample From		FL@20:30	FL@10:45	FL@05:00
Flow Line Temp	°C	50	50	50
Depth/TVD	m	1555/709	1356/693	1261/677
Mud Weight	sp.gr.	1.22@48°C	1.21@48°C	1.2@48°C
Funnel Viscosity	s/qt	59	57	55
Rheology Temp	°C	46.1	46.1	46.1
R600/R300		69/54	67/51	68/53
R200/R100		46/37	44/35	46/37
R6/R3		19/17	17/15	18/16
PV	cP	15	16	15
YP	lb/100ft²	39	35	38
10s/10m/30m Gel	lb/100ft²	17/25/30	15/25/28	16/24/28
API Fluid Loss	cc/30 min	4.8	5.0	5.0
HTHP FL Temp	cc/30 min	-@-°C	-@-°C	-@-°C
Cake API/HTHP	1/32"	1/-	1/-	1/-
Solids	%Vol	7	6	6
Oil/Water	%Vol	/93	/94	/94
Sand	%Vol	Tr	Tr	Tr
MBT	lb/bbl	7.5	7.0	6.4
pH		9.0	9.5	9.5
Alkal Mud (Pm)		0.12	0.14	0.14
Pf/Mf		0.1/1.0	0.1/1.1	0.1/1.1
Chlorides	mg/l	90000	88000	84000
Hardness Ca	mg/l	800	520	520
KCL	% by wt	16	15	15
LSRV1	cP	63300	40500	50180
LSRV2	cP	73180	48800	55120
LSRV3	cP	73890	53800	56200

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
Dual-Flo	50 LB BG	24
Duotec	25 KG BG	2
Flo-Vis Plus	25 KG BG	19
Glute-25	25 LT DM	1
OS-1	25 KG BG	1
KCL-Geel	1 TN BG	22
Potassium Hydroxide	25 KG DM	1
Safe Surf WN	200 KG DM	4
Sodium Bicarbonate	25 KG BG	1

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	120/120/120/120	22
Thule VSM 100 S	120/120/120/120	22
Thule VSM 100 S	145/145/145/145	22
Thule VSM 100 S	120/120/120/120	0
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.08
Viscosity	3 rpm>22
Filtrate	< 5 ml

REMARKS AND TREATMENT

Dumped 120 bbl and added fresh premix to active along with running Desilter to cut MW.
Mixed clean up pills.

REMARKS

Drilled 1144 to TD= 1555 m. Circulated hole clean.Made a wiper trip to 9.5/8" shoe.

TIME DISTR	Last 24 Hrs
Rig Up/Service	
Drilling	21
Tripping	2
Circulating	1

MUD VOL ACCTG	(bbl)
Oil Added	0
Water Added	650
Mud Received	0
Left in Hole	0
Sweeps	0
Dumped	205
Shakers	45
Evaporation	0
Centrifuge	0
Formation	0

SOLIDS ANALYSIS (%/lb/bbl)	
NaCl	.2/ 3.
KCl	6.5/ 57.4
Low Gravity	6.9/ 62.9
Bentonite	.1/ 1.2
Drill Solids	6./ 56.7
Weight Material	NA/ NA
Chemical Conc	- / 5.
Inert/React	6.725
Average SG	2.7
Carb/BiCarb (m mole/L)	2./ 10.

MUD RHEOLOGY & HYDRAULICS	
np/na Values	0.354/0.222
kp/ka (lb•s^n/100ft²)	6.350/12.633
Bit Loss (psi / %)	1649 / 64.6
Bit HHP (hhp / HSI)	575 / 10.1
Bit Jet Vel (m/s)	130
Ann. Vel DP (m/s)	1.58
Ann. Vel DC (m/s)	1.58
Crit Vel DP (m/s)	2
Crit Vel DC (m/s)	2
ECD @ 1555 (sp.gr.)	1.47

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Voytek Czarny Gordon Howie			$ 20,570.24	$ 135,190.55

Drilling Fluids

WATER-BASED MUD REPORT No. 13

Date	5/06/2002	Depth/TVD	1555 m / 709 m
Spud Date	24/05/2002	Mud Type	Flo-Pro SF
Water Depth	53	Activity	Running screens

Operator : OMV Australia
Report For : Ron King & John Kendrick
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 8.5 in		Surface	Hole	Pump Make	RATIONAL 12P-16	RATIONAL 12P-16
Nozzles 1/32"		30in @112m (112TVD)	447.4	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
5 in	m	13.375in @328m (328TVD)	79.6	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
in	m	9.625in @866m (678TVD)	79.6	Bottoms Up		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
in	m		692	Circulating Pressure		

MUD PROPERTIES

Sample From						
Flow Line Temp	°C					
Depth/TVD	m	1555/709				
Mud Weight	sp.gr.	1.12				
Funnel Viscosity	s/qt					
Rheology Temp	°C					
R600/R300						
R200/R100						
R6/R3						
PV	cP					
YP	lb/100ft²					
10s/10m/30m Gel	lb/100ft²					
API Fluid Loss	cc/30 min					
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol					
MBT	lb/bbl					
pH						
Alkal Mud (Pm)						
Pf/Mf						
Chlorides	mg/l					
Hardness Ca	mg/l					
KCL	% by wt					
LSRV1	cP					
LSRV2	cP					
LSRV3	cP					

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
Defoam A	25 LT DM	6

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	120/120/120/120	3
Thule VSM 100 S	120/120/120/120	3
Thule VSM 100 S	145/145/145/145	3
Thule VSM 100 S	120/120/120/120	0
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.12 SG
Viscosity	
Filtrate	

REMARKS AND TREATMENT

Dumped and cleaned pits.Saved 690 bbl of Flo-Pro in storage.Mixing 1.12 SG KCL brine.

REMARKS

POOH 1027-840 m.Flow-check.RIH 840-1555.CBU. Pumped 20 bbl KCl brine.Spotted 190 bbl Flo-Pro SF on bottom.POH to 760 m.Pumped 25 bbl HiVis spacer,50 bbl surfactant pill and 25 bbl brine Hi Vis spacer.Circulated hole clean to uninhibited KCL brine.POOH.R/up and run the completion screens.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service	13	Oil Added	0	NaCl	.2/	np/na Values	
Drilling		Water Added	0	KCl	/	kp/ka (lb•s^n/100ft²)	
Tripping	8.5	Mud Received	0	Low Gravity	/	Bit Loss (psi / %)	
Circulating	2.5	Left in Hole	0	Bentonite	/	Bit HHP (hhp / HSI)	
		Sweeps	0	Drill Solids	/	Bit Jet Vel (m/s)	
		Dumped	696	Weight Material	NA/ NA	Ann. Vel DP (m/s)	
		Shakers	0	Chemical Conc	- /	Ann. Vel DC (m/s)	
		Evaporation	0	Inert/React		Crit Vel DP (m/s)	
		Centrifuge	0	Average SG		Crit Vel DC (m/s)	
		Formation	0	Carb/BiCarb (m mole/L)	/		

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Voytek Czarny Gordon Howie			$ 337.02	$ 135,527.57

Drilling Fluids

WATER-BASED MUD REPORT No. 14

Date	6/06/2002	Depth/TVD	1555 m / 709 m
Spud Date	24/05/2002	Mud Type	KCL brine
Water Depth	53	Activity	POOH for completion

Operator : OMV Australia
Report For : Ron King & John Kendrick
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 8.5 in		Surface	Hole	Pump Make	RATIONAL 12P-16	RATIONAL 12P-16
Nozzles 1/32"		30in @112m (112TVD)	447.4	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
5 in	m	13.375in @328m (328TVD)	398.6	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
in	m	9.625in @866m (678TVD)	398.6	Bottoms Up		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
in	m		1177	Circulating Pressure		

MUD PROPERTIES

Sample From		Pit@12:00				
Flow Line Temp	°C					
Depth/TVD	m	1555/709				
Mud Weight	sp.gr.	1.12				
Funnel Viscosity	s/qt					
Rheology Temp	°C					
R600/R300						
R200/R100						
R6/R3						
PV	cP					
YP	lb/100ft²					
10s/10m/30m Gel	lb/100ft²					
API Fluid Loss	cc/30 min					
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol					
MBT	lb/bbl					
pH						
Alkal Mud (Pm)						
Pf/Mf						
Chlorides	mg/l					
Hardness Ca	mg/l					
KCL	% by wt					
LSRV1	cP					
LSRV2	cP					
LSRV3	cP					

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
KCL-Geel	1 TN BG	30
Wellzyme A	55 GA DM	4

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	120/120/120/120	2
Thule VSM 100 S	145/145/145/145	2
Thule VSM 100 S	120/120/120/120	0
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.12 SG
Viscosity	
Filtrate	

REMARKS AND TREATMENT

Mixed 1.12 SG KCL brine and filtered.
Mixed 176 bbl of Wellzyme A pill.

REMARKS

RIH with completion screens.Circulated liner volume with uninhibited brine.Displaced Wellzyme A pill into the open hole.Released setting ball.Pumped the ball down to the seat.Set the SLZXP hanger.Pressure tested surface lines.POOH for running completion.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service		Oil Added	0	NaCl	.2/	np/na Values	
Drilling		Water Added	844	KCl	/	kp/ka (lb•s^n/100ft²)	
Tripping	20	Mud Received	0	Low Gravity	/	Bit Loss (psi / %)	
Circulating	2	Left in Hole	0	Bentonite	/	Bit HHP (hhp / HSI)	
Testing	2	Sweeps	0	Drill Solids	/	Bit Jet Vel (m/s)	
		Dumped	132	Weight Material	NA/ NA	Ann. Vel DP (m/s)	
		Shakers	0	Chemical Conc	- /	Ann. Vel DC (m/s)	
		Evaporation	0	Inert/React		Crit Vel DP (m/s)	
		Centrifuge	0	Average SG		Crit Vel DC (m/s)	
		Formation	0	Carb/BiCarb (m mole/L)	/		

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Voytek Czarny			$ 15,229.50	$ 150,757.07

Drilling Fluids

WATER-BASED MUD REPORT No. 15

Date	7/06/2002	Depth/TVD	1555 m / 709 m
Spud Date	24/05/2002	Mud Type	KCL brine
Water Depth	53	Activity	Well Completion

Operator : OMV Australia
Report For : Ron King & John Kendrick
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 8.5 in		Surface	Hole	Pump Make	NATIONAL 12P-160	NATIONAL 12P-160
Nozzles 1/32"		30in @112m (112TVD)	414.1	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
5 in	1555 m	13.375in @328m (328TVD)	431.9	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
in	m	9.625in @866m (678TVD)	846	Bottoms Up		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
in	m	7in @1555m (709TVD)	1177	Circulating Pressure		

MUD PROPERTIES

Sample From		Pit				
Flow Line Temp	°C					
Depth/TVD	m	1555/709				
Mud Weight	sp.gr.	1.12				
Funnel Viscosity	s/qt					
Rheology Temp	°C					
R600/R300						
R200/R100						
R6/R3						
PV	cP					
YP	lb/100ft²					
10s/10m/30m Gel	lb/100ft²					
API Fluid Loss	cc/30 min					
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol					
MBT	lb/bbl					
pH						
Alkal Mud (Pm)						
Pf/Mf						
Chlorides	mg/l					
Hardness Ca	mg/l					
KCL	% by wt					
LSRV1	cP					
LSRV2	cP					
LSRV3	cP					

PRODUCTS USED LAST 24 HRS

Products	Size	Amt

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	145/145/145/145	0
Thule VSM 100 S	120/120/120/120	0
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.12 SG
Viscosity	
Filtrate	

REMARKS AND TREATMENT

Filtered KCL brine.
Inventory adjustment: Received 48 sx of Omyacarb 40, not 96 sx.

REMARKS

Well completion.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service		Oil Added	0	NaCl	.2/	np/na Values	0.354/0.222
Drilling		Water Added	0	KCl	/	kp/ka (lb•s^n/100ft²)	6.350/12.633
Tripping		Mud Received	0	Low Gravity	/	Bit Loss (psi / %)	/ 1
Well completion	24	Left in Hole	0	Bentonite	/	Bit HHP (hhp / HSI)	/ 1
		Sweeps	0	Drill Solids	/	Bit Jet Vel (m/s)	
		Dumped	0	Weight Material	NA/ NA	Ann. Vel DP (m/s)	
		Shakers	0	Chemical Conc	- /	Ann. Vel DC (m/s)	
		Evaporation	0	Inert/React		Crit Vel DP (m/s)	
		Centrifuge	0	Average SG		Crit Vel DC (m/s)	
		Formation	0	Carb/BiCarb (m mole/L)	/	ECD @ 1463 (sp.gr.)	1.47

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Voytek Czarny			$ 0.00	$ 150,757.07

Drilling Fluids

WATER-BASED MUD REPORT No. 16

Date	8/06/2002	Depth/TVD	1555 m / 709 m
Spud Date	24/05/2002	Mud Type	KCL brine
Water Depth	53	Activity	Rig up coil tubing

Operator : OMV Australia
Report For : Ron King & John Kendrick
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY

Bit Size 8.5 in	
Nozzles 1/32"	
Drill Pipe Size	Length
5 in	m
Drill Pipe Size	Length
in	m
Drill Collar Size	Length
in	m

CASING

Surface
30in @112m (112TVD)
Intermediate
13.375in @328m (328TVD)
Intermediate
9.625in @866m (678TVD)
Production or Liner
7in @1555m (709TVD)

MUD VOLUME (bbl)

Hole	447.4
Active Pits	268.6
Total Circulating Vol	268.6
In Storage	988

CIRCULATION DATA

Pump Make	↓ATIONAL 12P-16	↓ATIONAL 12P-16
Pump Size	6 X 12.in	6 X 12.in
Pump Cap	gal/stk	gal/stk
Pump stk/min		
Flow Rate	gal/min	
Bottoms Up		
Total Circ Time		
Circulating Pressure		

MUD PROPERTIES

Sample From		Pit			
Flow Line Temp	°C				
Depth/TVD	m	1555/709			
Mud Weight	sp.gr.	1.12			
Funnel Viscosity	s/qt				
Rheology Temp	°C				
R600/R300					
R200/R100					
R6/R3					
PV	cP				
YP	lb/100ft²				
10s/10m/30m Gel	lb/100ft²				
API Fluid Loss	cc/30 min				
HTHP FL Temp	cc/30 min				
Cake API/HTHP	1/32"				
Solids	%Vol				
Oil/Water	%Vol				
Sand	%Vol				
MBT	lb/bbl				
pH					
Alkal Mud (Pm)					
Pf/Mf					
Chlorides	mg/l				
Hardness Ca	mg/l				
KCL	% by wt				
LSRV1	cP				
LSRV2	cP				
LSRV3	cP				

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
Caustic Soda	25 KG DM	3
Defoam A	25 LT DM	4
Glute-25	25 LT DM	1
OS-1	25 KG BG	3
Conqor 303A	55 GA DM	3

SOLIDS EQUIP

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	145/145/145/145	0
Thule VSM 100 S	120/120/120/120	0
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.12 SG
Viscosity	
Filtrate	

REMARKS AND TREATMENT

Made up inhibited KCL brine and pumped to fill the casing.Returned 1190 sx of Barite.

REMARKS

Well completion and running coil tubing,

TIME DISTR

	Last 24 Hrs
Rig Up/Service	12
Drilling	
Tripping	
Run tubing	12

MUD VOL ACCTG

	(bbl)
Oil Added	0
Water Added	0
Mud Received	0
Left in Hole	0
Sweeps	0
Dumped	324
Shakers	0
Evaporation	0
Centrifuge	0
Formation	0

SOLIDS ANALYSIS (%/lb/bbl)

NaCl	.2/
KCl	/
Low Gravity	/
Bentonite	/
Drill Solids	/
Weight Material	NA/ NA
Chemical Conc	- /
Inert/React	
Average SG	
Carb/BiCarb (m mole/L)	/

MUD RHEOLOGY & HYDRAULICS

np/na Values	
kp/ka (lb•s^n/100ft²)	
Bit Loss (psi / %)	
Bit HHP (hhp / HSI)	
Bit Jet Vel (m/s)	
Ann. Vel DP (m/s)	
Ann. Vel DC (m/s)	
Crit Vel DP (m/s)	
Crit Vel DC (m/s)	

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Voytek Czarny			$ 1,018.37	$ 151,775.44

Drilling Fluids

WATER-BASED MUD REPORT No. 17

Date	9/06/2002	Depth/TVD	1555 m / 709 m
Spud Date	24/05/2002	Mud Type	KCL brine
Water Depth	53	Activity	Well Testing

Operator : OMV Australia
Report For : Ron King & John Kendrick
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY

Bit Size 8.5 in	
Nozzles 1/32"	
Drill Pipe Size	Length
5 in	m
Drill Pipe Size	Length
in	m
Drill Collar Size	Length
in	m

CASING

Surface
30in @112m (112TVD)
Intermediate
13.375in @328m (328TVD)
Intermediate
9.625in @866m (678TVD)
Production or Liner
7in @1555m (709TVD)

MUD VOLUME (bbl)

Hole
447.4
Active Pits
268.6
Total Circulating Vol
268.6
In Storage
988

CIRCULATION DATA

Pump Make	↓ATIONAL 12P-16	↓ATIONAL 12P-16
Pump Size	6 X 12.in	6 X 12.in
Pump Cap	gal/stk	gal/stk
Pump stk/min		
Flow Rate	gal/min	
Bottoms Up		
Total Circ Time		
Circulating Pressure		

MUD PROPERTIES

		Pit			
Sample From					
Flow Line Temp	°C				
Depth/TVD	m	1555/709			
Mud Weight	sp.gr.	1.12			
Funnel Viscosity	s/qt				
Rheology Temp	°C				
R600/R300					
R200/R100					
R6/R3					
PV	cP				
YP	lb/100ft²				
10s/10m/30m Gel	lb/100ft²				
API Fluid Loss	cc/30 min				
HTHP FL Temp	cc/30 min				
Cake API/HTHP	1/32"				
Solids	%Vol				
Oil/Water	%Vol				
Sand	%Vol				
MBT	lb/bbl				
pH					
Alkal Mud (Pm)					
Pf/Mf					
Chlorides	mg/l				
Hardness Ca	mg/l				
KCL	% by wt				
LSRV1	cP				
LSRV2	cP				
LSRV3	cP				

PRODUCTS USED LAST 24 HRS

Products	Size	Amt

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	145/145/145/145	0
Thule VSM 100 S	120/120/120/120	0
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.12 SG
Viscosity	
Filtrate	

REMARKS AND TREATMENT

House keeping in the sackroom.

REMARKS

Well Testing in progress.

TIME DISTR	Last 24 Hrs
Rig Up/Service	
Drilling	
Tripping	
Testing	24

MUD VOL ACCTG	(bbl)
Oil Added	0
Water Added	0
Mud Received	0
Left in Hole	0
Sweeps	0
Dumped	0
Shakers	0
Evaporation	0
Centrifuge	0
Formation	0

SOLIDS ANALYSIS (%/lb/bbl)	
NaCl	.2/
KCl	/
Low Gravity	/
Bentonite	/
Drill Solids	/
Weight Material	NA/ NA
Chemical Conc	- /
Inert/React	
Average SG	
Carb/BiCarb (m mole/L)	/

MUD RHEOLOGY & HYDRAULICS	
np/na Values	
kp/ka (lb•s^n/100ft²)	
Bit Loss (psi / %)	
Bit HHP (hhp / HSI)	
Bit Jet Vel (m/s)	
Ann. Vel DP (m/s)	
Ann. Vel DC (m/s)	
Crit Vel DP (m/s)	
Crit Vel DC (m/s)	

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Voytek Czarny			$ 0.00	$ 151,775.44

Drilling Fluids

WATER-BASED MUD REPORT No. 18

Date	10/06/2002	Depth/TVD	1555 m / 709 m
Spud Date	24/05/2002	Mud Type	KCL brine
Water Depth	53	Activity	Well testing

Operator : OMV Australia
Report For : Ron King & John Kendrick
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 8.5 in		Surface	Hole	Pump Make	ℳATIONAL 12P-16	ℳATIONAL 12P-16
Nozzles 1/32"		30in @112m (112TVD)	447.4	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
5 in	m	13.375in @328m (328TVD)	268.6	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
in	m	9.625in @866m (678TVD)	268.6	Bottoms Up		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
in	m	7in @1555m (709TVD)	918	Circulating Pressure		

MUD PROPERTIES

Sample From		Pit				
Flow Line Temp	°C					
Depth/TVD	m	1555/709				
Mud Weight	sp.gr.	1.12				
Funnel Viscosity	s/qt					
Rheology Temp	°C					
R600/R300						
R200/R100						
R6/R3						
PV	cP					
YP	lb/100ft²					
10s/10m/30m Gel	lb/100ft²					
API Fluid Loss	cc/30 min					
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol					
MBT	lb/bbl					
pH						
Alkal Mud (Pm)						
Pf/Mf						
Chlorides	mg/l					
Hardness Ca	mg/l					
KCL	% by wt					
LSRV1	cP					
LSRV2	cP					
LSRV3	cP					

PRODUCTS USED LAST 24 HRS

Products	Size	Amt

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	145/145/145/145	0
Thule VSM 100 S	120/120/120/120	0
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.12 SG
Viscosity	
Filtrate	

REMARKS AND TREATMENT

Checked Mud Inventory.

REMARKS

Well testing.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service		Oil Added	0	NaCl	.2/	np/na Values	
Drilling		Water Added	0	KCl	/	kp/ka (lb•s^n/100ft²)	
Tripping		Mud Received	0	Low Gravity	/	Bit Loss (psi / %)	
Testing	24	Left in Hole	0	Bentonite	/	Bit HHP (hhp / HSI)	
		Sweeps	0	Drill Solids	/	Bit Jet Vel (m/s)	
		Dumped	70	Weight Material	NA/ NA	Ann. Vel DP (m/s)	
		Shakers	0	Chemical Conc	- /	Ann. Vel DC (m/s)	
		Evaporation	0	Inert/React		Crit Vel DP (m/s)	
		Centrifuge	0	Average SG		Crit Vel DC (m/s)	
		Formation	0	Carb/BiCarb (m mole/L)	/		

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Voytek Czarny			$ 0.00	$ 151,775.44

Drilling Fluids

WATER-BASED MUD REPORT No. 19

Date	11/06/2002	Depth/TVD	1555 m / 709 m
Spud Date	24/05/2002	Mud Type	KCL brine
Water Depth	53	Activity	Well Testing

Operator : OMV Australia
Report For : G.Howard & J. Kendrick
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY

Bit Size 8.5 in	
Nozzles 1/32"	
Drill Pipe Size 5 in	Length m
Drill Pipe Size in	Length m
Drill Collar Size in	Length m

CASING

Surface
30in @112m (112TVD)
Intermediate
13.375in @328m (328TVD)
Intermediate
9.625in @866m (678TVD)
Production or Liner
7in @1555m (709TVD)

MUD VOLUME (bbl)

Hole	447.4
Active Pits	268.6
Total Circulating Vol	268.6
In Storage	918

CIRCULATION DATA

Pump Make	JATIONAL 12P-16	JATIONAL 12P-16
Pump Size	6 X 12.in	6 X 12.in
Pump Cap	gal/stk	gal/stk
Pump stk/min		
Flow Rate	gal/min	
Bottoms Up		
Total Circ Time		
Circulating Pressure		

MUD PROPERTIES

Sample From					
Flow Line Temp	°C				
Depth/TVD	m	1555/709			
Mud Weight	sp.gr.	1.12			
Funnel Viscosity	s/qt				
Rheology Temp	°C				
R600/R300					
R200/R100					
R6/R3					
PV	cP				
YP	lb/100ft²				
10s/10m/30m Gel	lb/100ft²				
API Fluid Loss	cc/30 min				
HTHP FL Temp	cc/30 min				
Cake API/HTHP	1/32"				
Solids	%Vol				
Oil/Water	%Vol				
Sand	%Vol				
MBT	lb/bbl				
pH					
Alkal Mud (Pm)					
Pf/Mf					
Chlorides	mg/l				
Hardness Ca	mg/l				
KCL	% by wt				
LSRV1	cP				
LSRV2	cP				
LSRV3	cP				

PRODUCTS USED LAST 24 HRS

Products	Size	Amt

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	145/145/145/145	0
Thule VSM 100 S	120/120/120/120	0
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.12 SG
Viscosity	
Filtrate	

REMARKS AND TREATMENT

Continue to filter the brine in the active between the pits until filters are used up. Filtering not very efficient.

REMARKS

The well was opened and the testing program was begun.

TIME DISTR	Last 24 Hrs
Rig Up/Service	
Drilling	
Tripping	
Testing	

MUD VOL ACCTG	(bbl)
Oil Added	0
Water Added	0
Mud Received	0
Left in Hole	0
Sweeps	0
Dumped	0
Shakers	0
Evaporation	0
Centrifuge	0
Formation	0

SOLIDS ANALYSIS (%/lb/bbl)	
NaCl	.2/
KCl	/
Low Gravity	/
Bentonite	/
Drill Solids	/
Weight Material	NA/ NA
Chemical Conc	- /
Inert/React	
Average SG	
Carb/BiCarb (m mole/L)	/

MUD RHEOLOGY & HYDRAULICS	
np/na Values	
kp/ka (lb•s^n/100ft²)	
Bit Loss (psi / %)	
Bit HHP (hhp / HSI)	
Bit Jet Vel (m/s)	
Ann. Vel DP (m/s)	
Ann. Vel DC (m/s)	
Crit Vel DP (m/s)	
Crit Vel DC (m/s)	

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
G. Garrick 08-9325-4822			$ 0.00	$ 151,775.44

Drilling Fluids

WATER-BASED MUD REPORT No. 20

Date	12/06/2002	Depth/TVD	1555 m / 709 m
Spud Date	24/05/2002	Mud Type	KCL brine
Water Depth	53	Activity	Well testing

Operator : OMV Australia
Report For : G.Howard & J. Kendrick
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY

Bit Size 8.5 in	
Nozzles 1/32"	
Drill Pipe Size	Length
5 in	m
Drill Pipe Size	Length
in	m
Drill Collar Size	Length
in	m

CASING

Surface
30in @112m (112TVD)
Intermediate
13.375in @328m (328TVD)
Intermediate
9.625in @866m (678TVD)
Production or Liner
7in @1555m (709TVD)

MUD VOLUME (bbl)

Hole
447.4
Active Pits
268.6
Total Circulating Vol
268.6
In Storage
918

CIRCULATION DATA

Pump Make	JATIONAL 12P-16	JATIONAL 12P-16
Pump Size	6 X 12.in	6 X 12.in
Pump Cap	gal/stk	gal/stk
Pump stk/min		
Flow Rate	gal/min	
Bottoms Up		
Total Circ Time		
Circulating Pressure		

MUD PROPERTIES

Sample From					
Flow Line Temp	°C				
Depth/TVD	m	1555/709			
Mud Weight	sp.gr.	1.12			
Funnel Viscosity	s/qt				
Rheology Temp	°C				
R600/R300					
R200/R100					
R6/R3					
PV	cP				
YP	lb/100ft²				
10s/10m/30m Gel	lb/100ft²				
API Fluid Loss	cc/30 min				
HTHP FL Temp	cc/30 min				
Cake API/HTHP	1/32"				
Solids	%Vol				
Oil/Water	%Vol				
Sand	%Vol				
MBT	lb/bbl				
pH					
Alkal Mud (Pm)					
Pf/Mf					
Chlorides	mg/l				
Hardness Ca	mg/l				
KCL	% by wt				
LSRV1	cP				
LSRV2	cP				
LSRV3	cP				

PRODUCTS USED LAST 24 HRS

Products	Size	Amt

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	145/145/145/145	0
Thule VSM 100 S	120/120/120/120	0
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.12 SG
Viscosity	
Filtrate	

REMARKS AND TREATMENT

Filter brine through filters from pit 2 to pit 4. Test the parameters of water samples as required.

REMARKS

Continued flowing the well according to test program.

TIME DISTR	Last 24 Hrs
Rig Up/Service	
Drilling	
Tripping	
Testing	24

MUD VOL ACCTG	(bbl)
Oil Added	0
Water Added	0
Mud Received	0
Left in Hole	0
Sweeps	0
Dumped	0
Shakers	0
Evaporation	0
Centrifuge	0
Formation	0

SOLIDS ANALYSIS (%/lb/bbl)	
NaCl	.2/
KCl	/
Low Gravity	/
Bentonite	/
Drill Solids	/
Weight Material	NA/ NA
Chemical Conc	- /
Inert/React	
Average SG	
Carb/BiCarb (m mole/L)	/

MUD RHEOLOGY & HYDRAULICS	
np/na Values	
kp/ka (lb•s^n/100ft²)	
Bit Loss (psi / %)	
Bit HHP (hhp / HSI)	
Bit Jet Vel (m/s)	
Ann. Vel DP (m/s)	
Ann. Vel DC (m/s)	
Crit Vel DP (m/s)	
Crit Vel DC (m/s)	

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
G. Garrick 08-9325-4822			$ 0.00	$ 151,775.44

Drilling Fluids

WATER-BASED MUD REPORT No. 21

Date	13/06/2002	Depth/TVD	1555 m / 709 m
Spud Date	24/05/2002	Mud Type	KCL brine
Water Depth	53	Activity	Well testing

Operator : OMV Australia
Report For : G.Howard & J. Kendrick
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY

Bit Size 8.5 in	
Nozzles 1/32"	
Drill Pipe Size 5 in	Length m
Drill Pipe Size in	Length m
Drill Collar Size in	Length m

CASING

Surface
30in @112m (112TVD)
Intermediate
13.375in @328m (328TVD)
Intermediate
9.625in @866m (678TVD)
Production or Liner
7in @1555m (709TVD)

MUD VOLUME (bbl)

Hole	447.4
Active Pits	268.6
Total Circulating Vol	268.6
In Storage	918

CIRCULATION DATA

Pump Make	JATIONAL 12P-16	JATIONAL 12P-16
Pump Size	6 X 12.in	6 X 12.in
Pump Cap	gal/stk	gal/stk
Pump stk/min		
Flow Rate	gal/min	
Bottoms Up		
Total Circ Time		
Circulating Pressure		

MUD PROPERTIES

Sample From					
Flow Line Temp	°C				
Depth/TVD	m	1555/709			
Mud Weight	sp.gr.	1.12			
Funnel Viscosity	s/qt				
Rheology Temp	°C				
R600/R300					
R200/R100					
R6/R3					
PV	cP				
YP	lb/100ft²				
10s/10m/30m Gel	lb/100ft²				
API Fluid Loss	cc/30 min				
HTHP FL Temp	cc/30 min				
Cake API/HTHP	1/32"				
Solids	%Vol				
Oil/Water	%Vol				
Sand	%Vol				
MBT	lb/bbl				
pH					
Alkal Mud (Pm)					
Pf/Mf					
Chlorides	mg/l				
Hardness Ca	mg/l				
KCL	% by wt				
LSRV1	cP				
LSRV2	cP				
LSRV3	cP				

PRODUCTS USED LAST 24 HRS

Products	Size	Amt

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	145/145/145/145	0
Thule VSM 100 S	120/120/120/120	0
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.12 SG
Viscosity	
Filtrate	

REMARKS AND TREATMENT

Filter brine with little success.

REMARKS

Continue with well testing program.

TIME DISTR	Last 24 Hrs
Rig Up/Service	
Drilling	
Tripping	
Testing	

MUD VOL ACCTG	(bbl)
Oil Added	0
Water Added	0
Mud Received	0
Sweeps	0
Dumped	0
Shakers	0
Evaporation	0
Centrifuge	0
Formation	0
Desilter	0

SOLIDS ANALYSIS (%/lb/bbl)	
NaCl	.2/
KCl	/
Low Gravity	/
Bentonite	/
Drill Solids	/
Weight Material	NA/ NA
Chemical Conc	- /
Inert/React	
Average SG	
Carb/BiCarb (m mole/L)	/

MUD RHEOLOGY & HYDRAULICS	
np/na Values	
kp/ka (lb•s^n/100ft²)	
Bit Loss (psi / %)	
Bit HHP (hhp / HSI)	
Bit Jet Vel (m/s)	
Ann. Vel DP (m/s)	
Ann. Vel DC (m/s)	
Crit Vel DP (m/s)	
Crit Vel DC (m/s)	

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
G. Garrick 08-9325-4822			$ 0.00	$ 151,775.44

Drilling Fluids

WATER-BASED MUD REPORT No. 22

Date	14/06/2002	Depth/TVD	1555 m / 709 m
Spud Date	24/05/2002	Mud Type	KCL brine
Water Depth	53	Activity	Well suspension

Operator : OMV Australia
Report For : G.Howard & J. Kendrick
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY

Bit Size 8.5 in	
Nozzles 1/32"	
Drill Pipe Size 5 in	Length m
Drill Pipe Size in	Length m
Drill Collar Size in	Length m

CASING

Surface
30in @112m (112TVD)
Intermediate
13.375in @328m (328TVD)
Intermediate
9.625in @866m (678TVD)
Production or Liner
7in @1555m (709TVD)

MUD VOLUME (bbl)

Hole	447.4
Active Pits	414.6
Total Circulating Vol	414.6
In Storage	

CIRCULATION DATA

Pump Make	JATIONAL 12P-16	JATIONAL 12P-16
Pump Size	6 X 12.in	6 X 12.in
Pump Cap	gal/stk	gal/stk
Pump stk/min		
Flow Rate	gal/min	
Bottoms Up		
Total Circ Time		
Circulating Pressure		

MUD PROPERTIES

Sample From					
Flow Line Temp	°C				
Depth/TVD	m	1555/709			
Mud Weight	sp.gr.	1.12			
Funnel Viscosity	s/qt				
Rheology Temp	°C				
R600/R300					
R200/R100					
R6/R3					
PV	cP				
YP	lb/100ft²				
10s/10m/30m Gel	lb/100ft²				
API Fluid Loss	cc/30 min				
HTHP FL Temp	cc/30 min				
Cake API/HTHP	1/32"				
Solids	%Vol				
Oil/Water	%Vol				
Sand	%Vol				
MBT	lb/bbl				
pH					
Alkal Mud (Pm)					
Pf/Mf					
Chlorides	mg/l				
Hardness Ca	mg/l				
KCL	% by wt				
LSRV1	cP				
LSRV2	cP				
LSRV3	cP				

PRODUCTS USED LAST 24 HRS

Products	Size	Amt

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	145/145/145/145	0
Thule VSM 100 S	120/120/120/120	0
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.12 SG
Viscosity	
Filtrate	

REMARKS AND TREATMENT

Turbidity of KCl in pits = 6000 NTU's. The 300 bbls of brine in the pits will be retained and used as either mud base or to be refiltered. The reserve mud retained was dumped due to variable deck load restrictions for the rig move.

REMARKS

Completed well testing program and commenced suspension of the well.

TIME DISTR	Last 24 Hrs
Rig Up/Service	
Drilling	
Tripping	
Testing	

MUD VOL ACCTG	(bbl)
Oil Added	0
Water Added	0
Mud Received	0
Sweeps	0
Dumped	772
Shakers	0
Evaporation	0
Centrifuge	0
Formation	0
Desilter	0

SOLIDS ANALYSIS (%/lb/bbl)	
NaCl	.2/
KCl	/
Low Gravity	/
Bentonite	/
Drill Solids	/
Weight Material	NA/ NA
Chemical Conc	- /
Inert/React	
Average SG	
Carb/BiCarb (m mole/L)	/

MUD RHEOLOGY & HYDRAULICS	
np/na Values	
kp/ka (lb•s^n/100ft²)	
Bit Loss (psi / %)	
Bit HHP (hhp / HSI)	
Bit Jet Vel (m/s)	
Ann. Vel DP (m/s)	
Ann. Vel DC (m/s)	
Crit Vel DP (m/s)	
Crit Vel DC (m/s)	

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
G. Garrick 08-9325-4822			$ 0.00	$ 151,775.44

Drilling Fluids

WATER-BASED MUD REPORT No. 23

Date	15/06/2002	Depth/TVD	1555 m / 709 m
Spud Date	24/05/2002	Mud Type	KCL brine
Water Depth	53	Activity	Well Suspension

Operator : OMV Australia
Report For : G.Howard & J. Kendrick
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY

Bit Size 8.5 in	
Nozzles 1/32"	
Drill Pipe Size	Length
5 in	m
Drill Pipe Size	Length
in	m
Drill Collar Size	Length
in	m

CASING

Surface
30in @112m (112TVD)
Intermediate
13.375in @328m (328TVD)
Intermediate
9.625in @866m (678TVD)
Production or Liner
7in @1555m (709TVD)

MUD VOLUME (bbl)

Hole	447.4
Active Pits	414.6
Total Circulating Vol	414.6
In Storage	110

CIRCULATION DATA

Pump Make	JATIONAL 12P-16	JATIONAL 12P-16
Pump Size	6 X 12.in	6 X 12.in
Pump Cap	gal/stk	gal/stk
Pump stk/min		
Flow Rate	gal/min	
Bottoms Up		
Total Circ Time		
Circulating Pressure		

MUD PROPERTIES

Sample From					
Flow Line Temp	°C				
Depth/TVD	m	1555/709			
Mud Weight	sp.gr.	1.02			
Funnel Viscosity	s/qt				
Rheology Temp	°C				
R600/R300					
R200/R100					
R6/R3					
PV	cP				
YP	lb/100ft²				
10s/10m/30m Gel	lb/100ft²				
API Fluid Loss	cc/30 min				
HTHP FL Temp	cc/30 min				
Cake API/HTHP	1/32"				
Solids	%Vol				
Oil/Water	%Vol				
Sand	%Vol				
MBT	lb/bbl				
pH					
Alkal Mud (Pm)					
Pf/Mf					
Chlorides	mg/l				
Hardness Ca	mg/l				
KCL	% by wt				
LSRV1	cP				
LSRV2	cP				
LSRV3	cP				

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
Duotec	25 KG BG	5
Flo-Vis Plus	25 KG BG	2

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	145/145/145/145	0
Thule VSM 100 S	120/120/120/120	0
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.12 SG
Viscosity	
Filtrate	

REMARKS AND TREATMENT

Mixed 110 bbls High Viscosity mud

REMARKS

Completing well suspension.

TIME DISTR	Last 24 Hrs
Rig Up/Service	
Drilling	
Tripping	
Testing	

MUD VOL ACCTG	(bbl)
Oil Added	0
Water Added	109
Mud Received	0
Sweeps	0
Dumped	0
Shakers	0
Evaporation	0
Centrifuge	0
Formation	0
Desilter	0

SOLIDS ANALYSIS (%/lb/bbl)	
NaCl	.2/
KCl	/
Low Gravity	/
Bentonite	/
Drill Solids	/
Weight Material	NA/ NA
Chemical Conc	- /
Inert/React	
Average SG	
Carb/BiCarb (m mole/L)	/

MUD RHEOLOGY & HYDRAULICS	
np/na Values	
kp/ka (lb•s^n/100ft²)	
Bit Loss (psi / %)	
Bit HHP (hhp / HSI)	
Bit Jet Vel (m/s)	
Ann. Vel DP (m/s)	
Ann. Vel DC (m/s)	
Crit Vel DP (m/s)	
Crit Vel DC (m/s)	

M-I ENGR / PHONE		RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
G. Garrick	08-9325-4822			$ 1,805.33	$ 153,580.77
D. Dixon	08-9325-4822				

Drilling Fluids

WATER-BASED MUD REPORT No. 24

Date	16/06/2002	Depth/TVD	1555 m / 709 m
Spud Date	24/05/2002	Mud Type	KCL brine
Water Depth	53	Activity	Suepend Well

Operator : OMV Australia
Report For : G.Howard & J. Kendrick
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY

Bit Size 8.5 in	
Nozzles 1/32"	
Drill Pipe Size	Length
5 in	m
Drill Pipe Size	Length
in	m
Drill Collar Size	Length
in	m

CASING

Surface
30in @112m (112TVD)
Intermediate
13.375in @328m (328TVD)
Intermediate
9.625in @866m (678TVD)
Production or Liner
7in @1555m (709TVD)

MUD VOLUME (bbl)

Hole	447.4
Active Pits	29.6
Total Circulating Vol	29.6
In Storage	

CIRCULATION DATA

Pump Make	JATIONAL 12P-16	JATIONAL 12P-16
Pump Size	6 X 12.in	6 X 12.in
Pump Cap	gal/stk	gal/stk
Pump stk/min		
Flow Rate	gal/min	
Bottoms Up		
Total Circ Time		
Circulating Pressure		

MUD PROPERTIES

Sample From						
Flow Line Temp	°C					
Depth/TVD	m	1555/709				
Mud Weight	sp.gr.					
Funnel Viscosity	s/qt	NO				
Rheology Temp	°C	MUD				
R600/R300						
R200/R100						
R6/R3						
PV	cP					
YP	lb/100ft²					
10s/10m/30m Gel	lb/100ft²					
API Fluid Loss	cc/30 min					
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol					
MBT	lb/bbl					
pH						
Alkal Mud (Pm)						
Pf/Mf						
Chlorides	mg/l					
Hardness Ca	mg/l					
KCL	% by wt					
LSRV1	cP					
LSRV2	cP					
LSRV3	cP					

PRODUCTS USED LAST 24 HRS

Products	Size	Amt

SOLIDS EQUIP

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	145/145/145/145	0
Thule VSM 100 S	120/120/120/120	0
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.12 SG
Viscosity	
Filtrate	

REMARKS AND TREATMENT

Remaining mud volume and Brine transferred to Standby boat.

REMARKS

Set Plugs, Unlatch B.O.P.s and move rig off location. Pull B.O.P.s and land on skid beams. Reposition rig. Run corrosion cap.

TIME DISTR Last 24 Hrs

Rig Up/Service	
Drilling	
Tripping	
Testing	

MUD VOL ACCTG (bbl)

Oil Added	0
Water Added	0
Mud Received	-495
Sweeps	0
Dumped	0
Shakers	0
Evaporation	0
Centrifuge	0
Formation	0
Desilter	0

SOLIDS ANALYSIS (%/lb/bbl)

NaCl	.2/
KCl	/
Low Gravity	/
Bentonite	/
Drill Solids	/
Weight Material	NA/ NA
Chemical Conc	- /
Inert/React	
Average SG	
Carb/BiCarb (m mole/L)	/

MUD RHEOLOGY & HYDRAULICS

np/na Values	
kp/ka (lb•s^n/100ft²)	
Bit Loss (psi / %)	
Bit HHP (hhp / HSI)	
Bit Jet Vel (m/s)	
Ann. Vel DP (m/s)	
Ann. Vel DC (m/s)	
Crit Vel DP (m/s)	
Crit Vel DC (m/s)	

M-I ENGR / PHONE		RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
G. Garrick	08-9325-4822			$ 0.00	$ 153,580.77
D. Dixon	08-9325-4822				

Drilling Fluids

WATER-BASED MUD REPORT No. 25

Date	17/06/2002	Depth/TVD	1555 m / 709 m
Spud Date	24/05/2002	Mud Type	
Water Depth	53	Activity	W.O.W.

Operator : OMV Australia
Report For : G.Howard & J. Kendrick
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size in		Surface	Hole	Pump Make	JATIONAL 12P-16	JATIONAL 12P-16
Nozzles 1/32"		30in @112m (112TVD)	447.4	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
5 in	m	13.375in @328m (328TVD)	29.6	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
in	m	9.625in @866m (678TVD)	29.6	Bottoms Up		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
in	m	7in @1555m (709TVD)		Circulating Pressure		

MUD PROPERTIES

Sample From						
Flow Line Temp	°C					
Depth/TVD	m	1555/709				
Mud Weight	sp.gr.					
Funnel Viscosity	s/qt					
Rheology Temp	°C					
R600/R300						
R200/R100						
R6/R3						
PV	cP					
YP	lb/100ft²					
10s/10m/30m Gel	lb/100ft²					
API Fluid Loss	cc/30 min					
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol					
MBT	lb/bbl					
pH						
Alkal Mud (Pm)						
Pf/Mf						
Chlorides	mg/l					
Hardness Ca	mg/l					
KCL	% by wt					
LSRV1	cP					
LSRV2	cP					
LSRV3	cP					

PRODUCTS USED LAST 24 HRS

Products	Size	Amt

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	145/145/145/145	0
Thule VSM 100 S	120/120/120/120	0
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.12 SG
Viscosity	
Filtrate	

REMARKS AND TREATMENT

REMARKS

Repair rig electrical fault. W.O.W.

TIME DISTR	Last 24 Hrs
Rig Up/Service	
Drilling	
Tripping	
Testing	

MUD VOL ACCTG	(bbl)
Oil Added	0
Water Added	0
Mud Received	0
Sweeps	0
Dumped	0
Shakers	0
Evaporation	0
Centrifuge	0
Formation	0
Desilter	0

SOLIDS ANALYSIS (%/lb/bbl)	
NaCl	.2/
KCl	/
Low Gravity	/
Bentonite	/
Drill Solids	/
Weight Material	NA/ NA
Chemical Conc	- /
Inert/React	
Average SG	
Carb/BiCarb (m mole/L)	/

MUD RHEOLOGY & HYDRAULICS	
np/na Values	
kp/ka (lb•s^n/100ft²)	
Bit Loss (psi / %)	
Bit HHP (hhp / HSI)	
Bit Jet Vel (m/s)	
Ann. Vel DP (m/s)	
Ann. Vel DC (m/s)	
Crit Vel DP (m/s)	
Crit Vel DC (m/s)	

M-I ENGR / PHONE		RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
G. Garrick	08-9325-4822				
D. Dixon	08-9325-4822			$ 0.00	$ 153,580.77

Drilling Fluids

WATER-BASED MUD REPORT No. 26

Date	18/06/2002	Depth/TVD	1555 m / 709 m
Spud Date	24/05/2002	Mud Type	
Water Depth	53	Activity	W.O.W.

Operator : OMV Australia
Report For : G.Howard & J. Kendrick
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY

Bit Size in	
Nozzles 1/32"	
Drill Pipe Size	Length
5 in	m
Drill Pipe Size	Length
in	m
Drill Collar Size	Length
in	m

CASING

Surface
30in @112m (112TVD)
Intermediate
13.375in @328m (328TVD)
Intermediate
9.625in @866m (678TVD)
Production or Liner
7in @1555m (709TVD)

MUD VOLUME (bbl)

Hole	447.4
Active Pits	-.4
Total Circulating Vol	-.4
In Storage	

CIRCULATION DATA

Pump Make	JATIONAL 12P-16	JATIONAL 12P-16
Pump Size	6 X 12.in	6 X 12.in
Pump Cap	gal/stk	gal/stk
Pump stk/min		
Flow Rate		gal/min
Bottoms Up		
Total Circ Time		
Circulating Pressure		

MUD PROPERTIES

Sample From						
Flow Line Temp	°C					
Depth/TVD	m	1555/709				
Mud Weight	sp.gr.					
Funnel Viscosity	s/qt					
Rheology Temp	°C	NO				
R600/R300						
R200/R100						
R6/R3						
PV	cP	MUD				
YP	lb/100ft²					
10s/10m/30m Gel	lb/100ft²					
API Fluid Loss	cc/30 min	IN				
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol					
MBT	lb/bbl	PITS				
pH						
Alkal Mud (Pm)						
Pf/Mf						
Chlorides	mg/l					
Hardness Ca	mg/l					
KCL	% by wt					
LSRV1	cP					
LSRV2	cP					
LSRV3	cP					

PRODUCTS USED LAST 24 HRS

Products	Size	Amt

SOLIDS EQUIP

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	145/145/145/145	0
Thule VSM 100 S	120/120/120/120	0
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.12 SG
Viscosity	
Filtrate	

REMARKS AND TREATMENT

REMARKS

Wait on Weather

TIME DISTR Last 24 Hrs

Rig Up/Service	
Drilling	
Tripping	
Testing	

MUD VOL ACCTG (bbl)

Oil Added	0
Water Added	0
Mud Received	-30
Sweeps	0
Dumped	0
Shakers	0
Evaporation	0
Centrifuge	0
Formation	0
Desilter	0

SOLIDS ANALYSIS (%/lb/bbl)

NaCl	.2/
KCl	/
Low Gravity	/
Bentonite	/
Drill Solids	/
Weight Material	NA/ NA
Chemical Conc	- /
Inert/React	
Average SG	
Carb/BiCarb (m mole/L)	/

MUD RHEOLOGY & HYDRAULICS

np/na Values	
kp/ka (lb•s^n/100ft²)	
Bit Loss (psi / %)	
Bit HHP (hhp / HSI)	
Bit Jet Vel (m/s)	
Ann. Vel DP (m/s)	
Ann. Vel DC (m/s)	
Crit Vel DP (m/s)	
Crit Vel DC (m/s)	

M-I ENGR / PHONE		RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
G. Garrick	08-9325-4822			$ 0.00	$ 153,580.77
D. Dixon	08-9325-4822				

Drilling Fluids

WATER-BASED MUD REPORT No. 27

Date	19/06/2002	Depth/TVD	1555 m / 709 m
Spud Date	24/05/2002	Mud Type	
Water Depth	53	Activity	Handling Anchors

Operator : OMV Australia
Report For : G.Howard & J. Kendrick
Well Name : Baleen # 3
Contractor : Diamond Offshore
Report For : S. Andrews

Field/Area : Vic / L21
Description : Development
Location : Bass Strait
Well No. : Baleen3

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size in		Surface	Hole	Pump Make	JATIONAL 12P-16	JATIONAL 12P-16
Nozzles 1/32"		30in @112m (112TVD)	447.4	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
5 in	m	13.375in @328m (328TVD)	-.4	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
in	m	9.625in @866m (678TVD)	-.4	Bottoms Up		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
in	m	7in @1555m (709TVD)		Circulating Pressure		

MUD PROPERTIES

Sample From						
Flow Line Temp	°C					
Depth/TVD	m	1555/709				
Mud Weight	sp.gr.					
Funnel Viscosity	s/qt					
Rheology Temp	°C	NO				
R600/R300						
R200/R100						
R6/R3						
PV	cP	MUD				
YP	lb/100ft²					
10s/10m/30m Gel	lb/100ft²					
API Fluid Loss	cc/30 min	IN				
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol					
MBT	lb/bbl	PITS				
pH						
Alkal Mud (Pm)						
Pf/Mf						
Chlorides	mg/l					
Hardness Ca	mg/l					
KCL	% by wt					
LSRV1	cP					
LSRV2	cP					
LSRV3	cP					

PRODUCTS USED LAST 24 HRS

Products	Size	Amt

SOLIDS EQUIP	Size	Hr
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	120/120/120/120	0
Thule VSM 100 S	145/145/145/145	0
Thule VSM 100 S	120/120/120/120	0
D-Sander	3 x 12 "	0
D-Silter	20 x 4"	0
Degasser		0

MUD PROPERTY SPECS

Weight	1.12 SG
Viscosity	
Filtrate	

REMARKS AND TREATMENT

REMARKS

Handling Anchors. Jump ROV.

TIME DISTR	Last 24 Hrs
Rig Up/Service	
Drilling	
Tripping	
Testing	

MUD VOL ACCTG	(bbl)
Oil Added	0
Water Added	0
Mud Received	0
Sweeps	0
Dumped	0
Shakers	0
Evaporation	0
Centrifuge	0
Formation	0
Desilter	0

SOLIDS ANALYSIS (%/lb/bbl)	
NaCl	.2/
KCl	/
Low Gravity	/
Bentonite	/
Drill Solids	/
Weight Material	NA/ NA
Chemical Conc	- /
Inert/React	
Average SG	
Carb/BiCarb (m mole/L)	/

MUD RHEOLOGY & HYDRAULICS	
np/na Values	
kp/ka (lb•s^n/100ft²)	
Bit Loss (psi / %)	
Bit HHP (hhp / HSI)	
Bit Jet Vel (m/s)	
Ann. Vel DP (m/s)	
Ann. Vel DC (m/s)	
Crit Vel DP (m/s)	
Crit Vel DC (m/s)	

M-I ENGR / PHONE		RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
G. Garrick	08-9325-4822				
D. Dixon	08-9325-4822			$ 0.00	$ 153,580.77

BIT RECAP

BALEEN # 3

From : **24-May-02**
To : **05-Jun-02**

DATE	BIT#	SIZE	SER#	MF	IADC	TYPE	JETS	OUT	FTGE	HRS o/b	SPP psi	FLW gpm	WOB lbs	RPM	VEL fps	HHP	ROP f/hr	I	O1	D	L	B	G	O2	R
24-May-02	1	26.00	KW0659	Smith	111	DSJC	3x24, 1x17	112	35	2.0					.0	0.000	17.3	1	1	NO	A	E	I	NO	TD
25-May-02	2	17.50	740844	SE	115	XT-1C	3x24	336	224	4.1	1550	912	8.0	60	67.1	0.100	54.6	1	1	BU	A	E	I	NO	TD
29-May-02	3	12.50	NL-5006	RE	135	MHT-13 GC	3x15, 1x24		206	5.2	1750	800	6.0	200	81.3	2.147	39.6								
30-May-02	3	12.50	NL-5006	RE	135	MHT-13 GC	3x15, 1x24		329	15.9	2030	834	15.0	207	84.8	2.662	20.7								
31-May-02	3	12.50	NL-5006	RE	135	MHT-13 GC	3x15, 1x24	871	0	15.9	2030	834	15.0	207	84.8	0.000	.0	1	2	WT	G	E	1/8	NO	TD
01-Jun-02	4	8.50	M-25484	Reed	417	EHP-41 ALKDH	3x14		48	2.0	2000	588	14.0	120	127.2	8.740	24.0								
02-Jun-02	4	8.50	M-25484	Reed	417	EHP-41 ALKDH	3x14		368	14.2	2475	607	9.0	125	131.3	1.080	25.9								
03-Jun-02	4	8.50	M-25484	Reed	417	EHP-41 ALKDH	3x14	1,352	65	2.4	2595	607	9.0	125	131.3	10.134	27.1	1	1	WT	A	E	I	NO	LOG
03-Jun-02	5RR4	8.50	M25484	Reed	417	EHP 41 ALKDH	3x14		7	3.6	2595	607	11.0	144	131.3	10.134	1.9								
04-Jun-02	5RR4	8.50	M25484	Reed	417	EHP 41 ALKDH	3x14		418	20.8	2466	609	11.0	144	131.7	10.672	20.1								
05-Jun-02	5RR4	8.50	M25484	Reed	417	EHP 41 ALKDH	3x14	1,555	0	.0	2466	609			131.7	1.091		1	2	LT	G	E	IN	ER	TD

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Time Analysis Overview

Well :	**BALEEN # 3**
Drilling Co :	**DIAMOND OFFSHORE**
Rig :	**OCEAN BOUNTY**
Spud date :	**23-May-02**
TD Depth :	**1,555.0**
Final Depth :	**1,555.0**
Total Time (hrs) - Spud/Release :	**623.00**
Total Time (hrs) - Rig Move :	**0.00**
Total NPT (hrs) :	**150.50**
Total Time (hrs) - Pre Spud :	**0.00**

Time-Breakdown : Times by Class and Operation

Operations of < than 2 hrs

Class	Hrs
PROGRAMMED EVENT	426.0
TROUBLE - DURING PROGRAM	150.5
UNPROGRAMMED EVENT	46.5

Operation	Hrs
DRILLING AHEAD	86.5
FLOW WELL/CLEAN UP	75.0
TOT. CSG/CMT	67.3
XMAS TREE WORK	56.5
COILED TUBING OPERATIONS	52.5
SLICKLINE	38.0
TOT. TRIPPING	37.5
RUN TUBING	32.0
WAIT ON WEATHER	30.5
WELL-HEAD	28.3
BOP : NIPPLE U/D AND TEST	24.0
HANDLE BHA	17.3
CIRCULATE & CONDITION MUD	15.0
RIG REPAIR	12.5
HANDLE TOOLS	11.0
RISER - RECOVER	8.0
PRESSURE TEST	6.5
REAM/WASH	6.0
PIPE - LAY DOWN	5.0
LOGGING	3.5
CIRCULATE SAMPLE	2.5
REPAIR OTHER	2.3
RUN & SET PACKERS	2.0
RIG SERVICE	1.5
LEAK-OFF TEST	1.5
WIPER TRIP	.5

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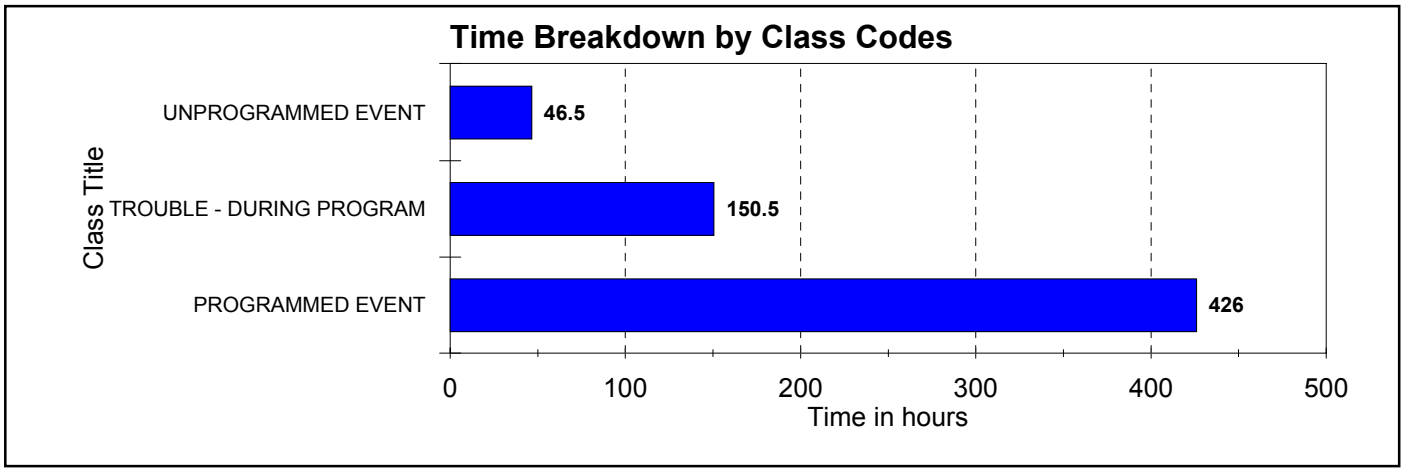
TIME BREAKDOWN DATABASE - single well overview

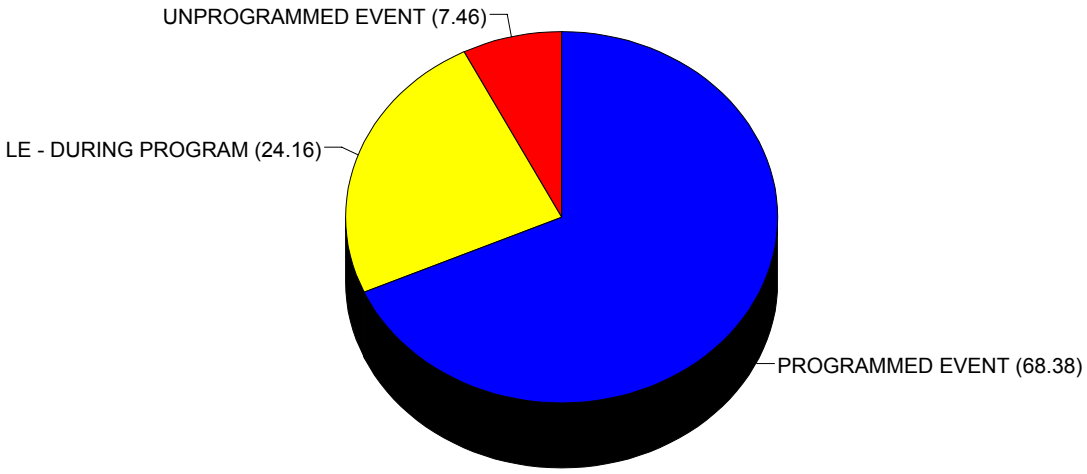
WELL : BALEEN # 3

Pacesetter : none selected



Time Analysis by Class Codes

Class	Hrs
PROGRAMMED EVENT	426.0
TROUBLE - DURING PROGRAM	150.5
UNPROGRAMMED EVENT	46.5



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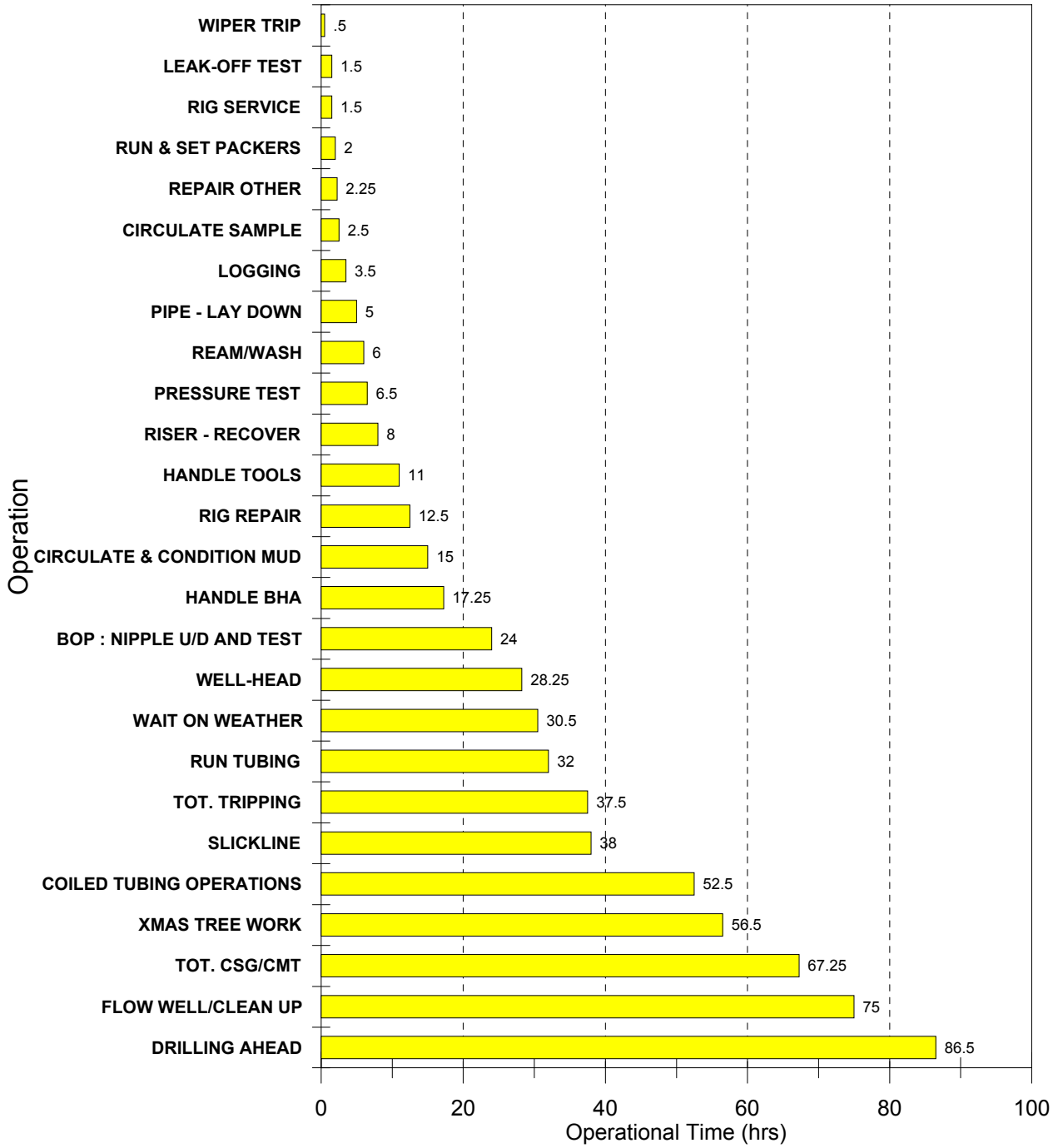
TIME BREAKDOWN DATABASE - single well overview

WELL : BALEEN # 3

Pacesetter : none selected

Time Breakdown by Operational Code



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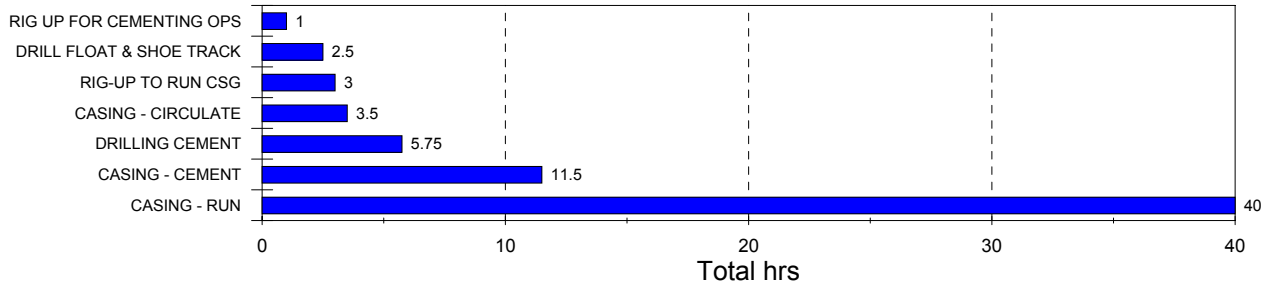
TIME BREAKDOWN DATABASE - single well overview

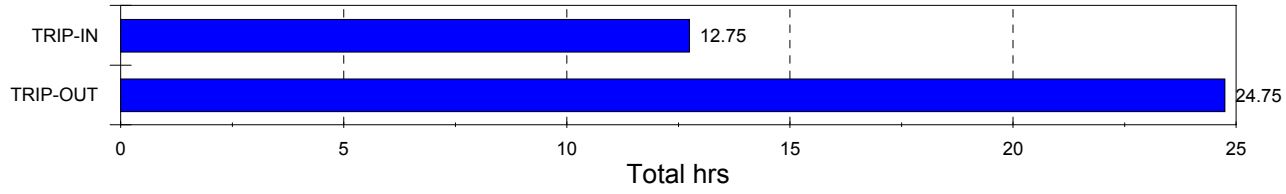
WELL : BALEEN # 3

Pacesetter : none selected

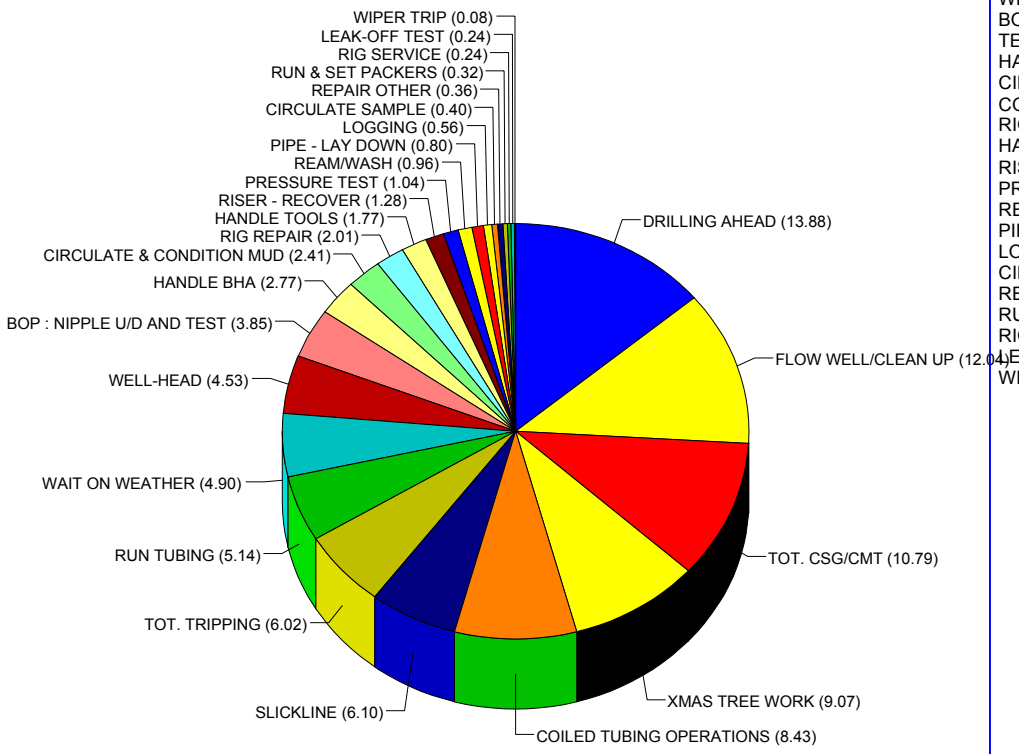
Breakdown of Total Csg & Cmtng Time



Breakdown of Total Tripping Time



Time Analysis by Operational Codes



Operation	hrs
DRILLING AHEAD	86.5
FLOW WELL/CLEAN UP	75.0
TOT. CSG/CMT	67.3
XMAS TREE WORK	56.5
COILED TUBING OPERATIONS	52.5
SLICKLINE	38.0
TOT. TRIPPING	37.5
RUN TUBING	32.0
WAIT ON WEATHER	30.5
WELL-HEAD	28.3
BOP : NIPPLE U/D AND TEST	24.0
HANDLE BHA	17.3
CIRCULATE & CONDITION MUD	15.0
RIG REPAIR	12.5
HANDLE TOOLS	11.0
RISER - RECOVER	8.0
PRESSURE TEST	6.5
REAM/WASH	6.0
PIPE - LAY DOWN	5.0
LOGGING	3.5
CIRCULATE SAMPLE	2.5
REPAIR OTHER	2.3
RUN & SET PACKERS	2.0
RIG SERVICE	1.5
LEAK-OFF TEST	1.5
WIPER TRIP	0.5

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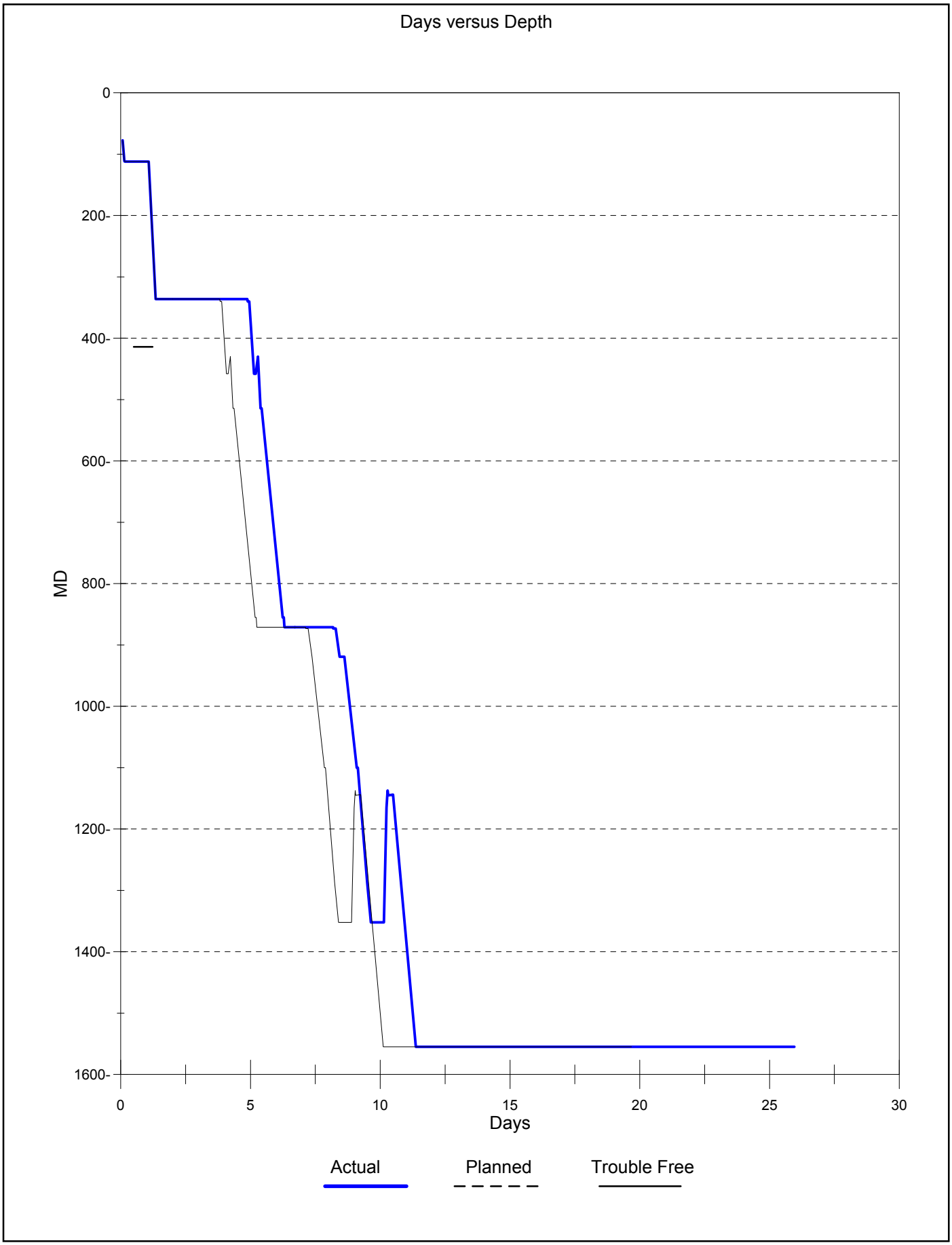
TIME BREAKDOWN DATABASE - single well overview

WELL : BALEEN # 3

Pacesetter : none selected



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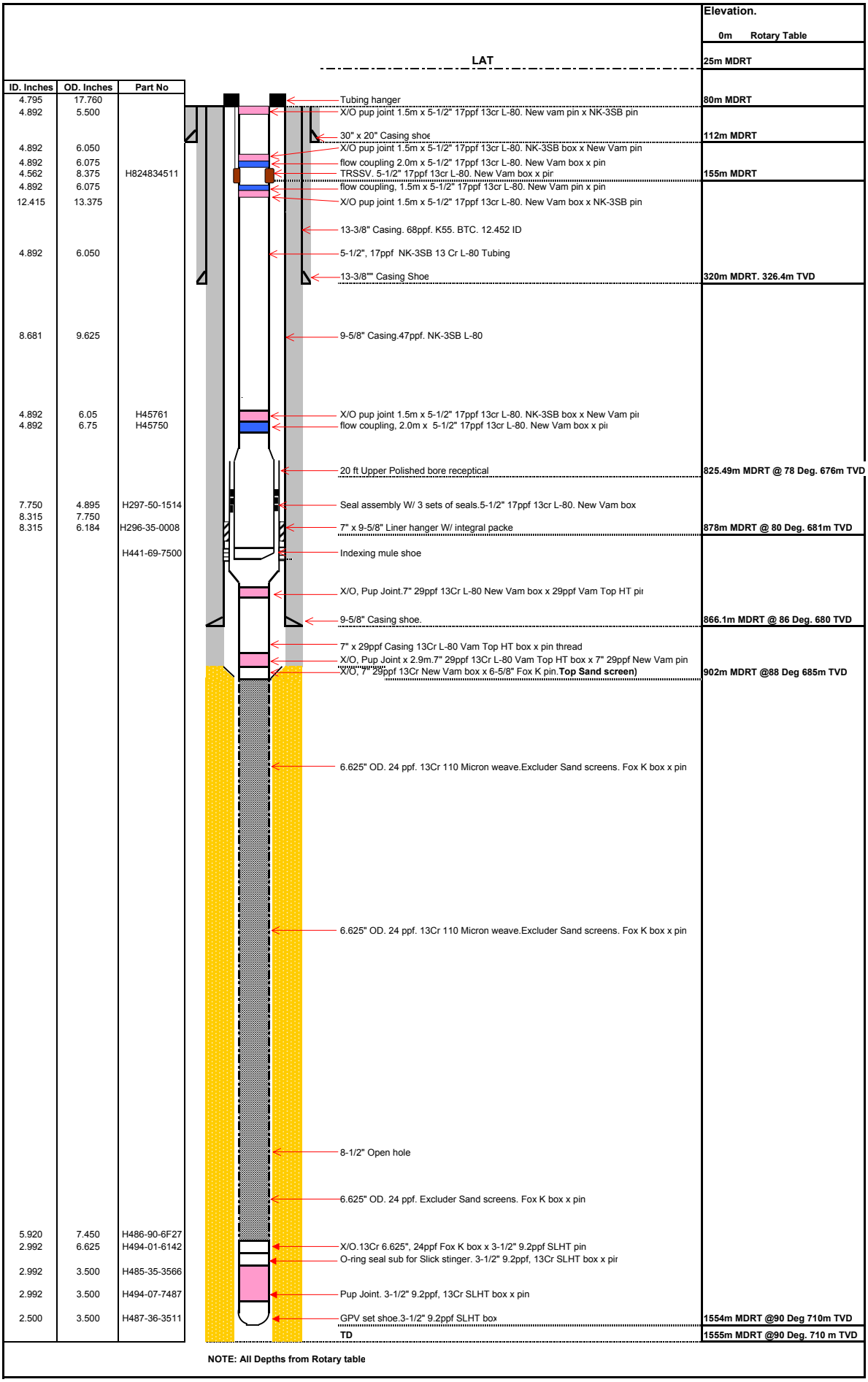
Baleen 3
Final Well Completion.



OMV

DAILY DRILLING REPORT # 1

DATE May 23, 2002

FROM : G.Howard / G.Othen
TO : R.King / S.Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	0.0	CUR. HOLE SIZE (")		AFE COST $	11,825,851
TVD (mBRT)		CASING OD (")		AFE BASIS :	C&S
PROGRESS (m)		SHOE TVD (mBRT)	0	DAILY COST :	$1,988,142.00
DAYS ON WELL	0.46	FIT (sg)	0.00	CUM COST :	$1,988,142.00
DAYS +/- CURVE		LOT (sg)	0.00		

CURRENT OP @ 0600 Running anchor #1
PLANNED OP. Finish running anchor #1 and pretention anchors.

Summary of period 0000 to 2400 hrs

Anchor #6 on bottom @ 13:25 hrs. Anchor #2 finished @ 18:34hrs, anchor #3 finished @ 22:00hrs.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON May 23, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
RM	P		AH	13:30	24:00	10.50	0	Dropped # 6 on bottom @ 13:25 Hrs, P.Conqueror Start #2 @ 14:30 hrs. # 2 on bottom @ 15:42 hrs. Tension up on # 2 with assistance from #6. Anchor #2 Slipping. Rerun # 2 @ 17:33 hrs # 2 finished @ 18:34. Start #1 @ 19:43 hrs. At 20:00 hrs problem with # 1 anchor winch, P.Conquerors pennant parted while holding anchor. Reported caused by large swell. P.Conqueror Start # 3 @ 21:12 hrs, finished # 3 @ 22:00 hrs. Start # 7 @ 22:15 hrs.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON May 24, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
RM	P		AH	00:00	06:00	6.00	0	Finished #7 @00:10 hrs. Start # 8 @ 00:38 hrs finished # 8 @ 01:29 hrs. Start # 4 @ 03:00 hrs finished # 4 @ 03:46 hrs. Start # 5 @ 04:00 hrs finished #5 @04:48 hrs. Passed 'J' Hook to P. Conqueror and prepared to grapple for # 1 Anchor wire. Commenced to move rig Strb and pay out on # 1 chain.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	10.5	May 23, 2002	May 23, 2002	10.5	0.44	0.0	0.0

WBM Data

COST TODAY : CUM. WB MUD COST: $0 CUM. WBM+OBM COST: $0

Type :	VISCOCITY (sec/qt) :	API FLUID LOSS (cm3/30min) :	CI :	SOLIDS (%vol) :
	PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
FROM :	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
TIME :	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
WEIGHT (sg) :			PM :	PH :
TEMP (C) :	Fann 3/6/100 :		PF :	PHPA (ppb) :

Survey

Last Tool Type :
Magnetic Declination : 0.00
Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	MT	1272			1272
Bentonite	MT	793			793
G-neat	MT	1377			1377
G+35% SiFl	MT				0
G+BFS+12.25% SiFl	MT				0
Pot Water	MT	98			98
Drill Water	bbl	137			137
Heli-fuel	ltr	9428			9428
Base Oil	bbl				0
Rig Fuel	MT	237400			237400
Brine	bbl				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)

DATE May 23, 2002

DAILY DRILLING REPORT # 1

BALEEN # 3

VIC/L21

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	MT	1272			1272
Bentonite	MT	793			793
G-neat	MT	1377			1377
G+35% SiFl	MT				0
G+BFS+12.25% SiFl	MT				0
Pot Water	MT	98			98
Drill Water	bbl	137			137
Heli-fuel	ltr	9428			9428
Base Oil	bbl				0
Rig Fuel	MT	237400			237400
Brine	bbl				0

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT

Personnel : on Site =87

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G.Howard	OMV	5
Drilling Supervisor	G.Othen	Service Company	24
Drilling Engineer	H.Heinzle	Diamond Offshore	50
Geologist	R.Leach	Catering	8

Safety, Inspections and Drills

Summary

days since last	Medical Treatment Case
days since last	First Aid Case
days since last	Environmental Issue
days since last	Walkabout
days since last	Rig Inspection
days since last	Pre-Job Meetings
days since last	Trip/Pit Drill
days since last	Fire Drill
days since last	Abandon Drill
days since last	Heavy Lift Meeting
days since last	BOP Test

Shakers, Volumes and Losses Data

ENGINEER

SHAKER 1
SHAKER 2
SHAKER 3
SHAKER 4
SHAKER 5

VOLUME AVAILABLE (bbl) = 0

ACTIVE	MIXING
HOLE	SLUG
RESERVE	HEAVY

LOSSES (bbl) = 0

DOWNHOLE	
SURF. + EQUIP	0.00
DUMPED	

COMMENTS

Anchors

Workboats

	Location	Fuel (bbl)	Barite (sx)	D/wtr (bbl)	P/wtr (bbl)	Cmt (sx)	Bent (sx)	Brine (bbl)
Pacific Conqueror	At Loc	375	0	718	188	2334	1656	
Pacific Sentinnel	At Loc	409	1598	630	97	1180	900	

Weather

VISIBILITY(nm)	11
WIND SP. (kts)	30.0
WIND DIR (deg)	180
PRES.(mbars)	1023
AIR TEMP (C)	16.0

Rig / Sea Data

RIS.TENS (klbs)	
VDL (mt)	1,754
WAVES (m)	2.0
SWELL (m)	4.0

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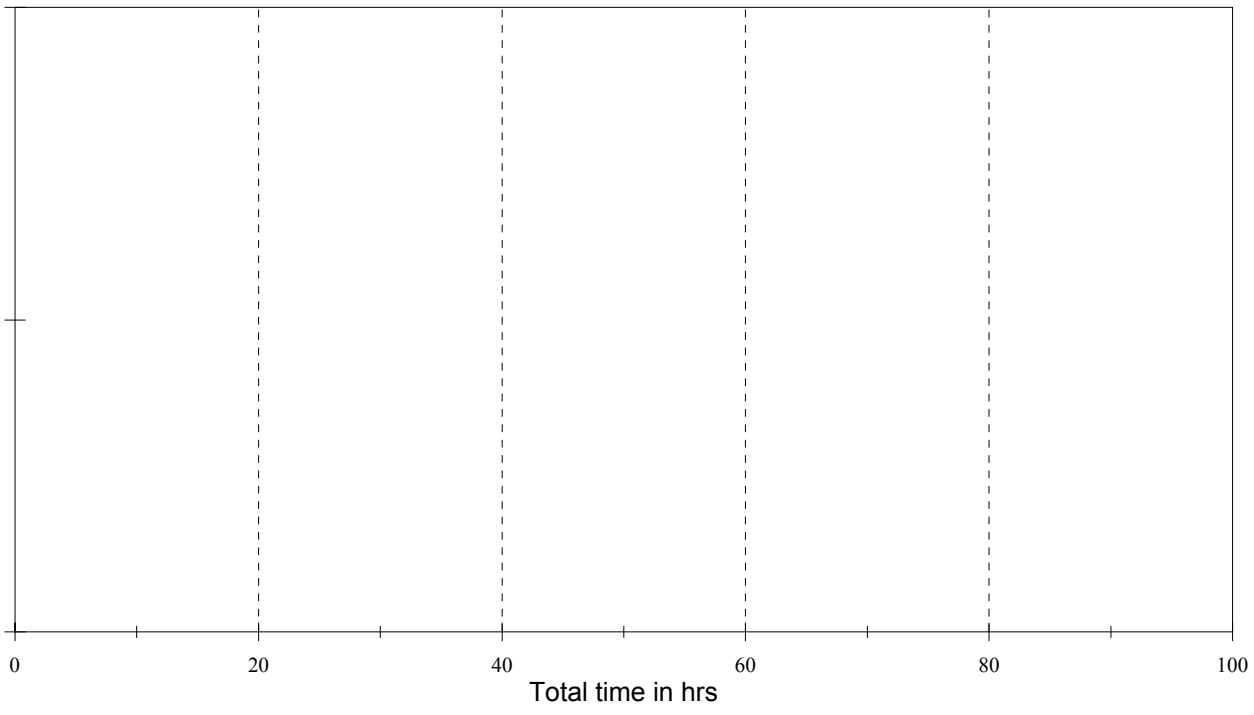
Total move time (hrs)	10.50	Total prod. time since spud (hrs) :	0.00
Total time on well excluding move (hrs)	0.00	Total troub. time since spud (hrs)	0.00
		% Trouble time	

Productive Time by Op.

Productive time by Operation



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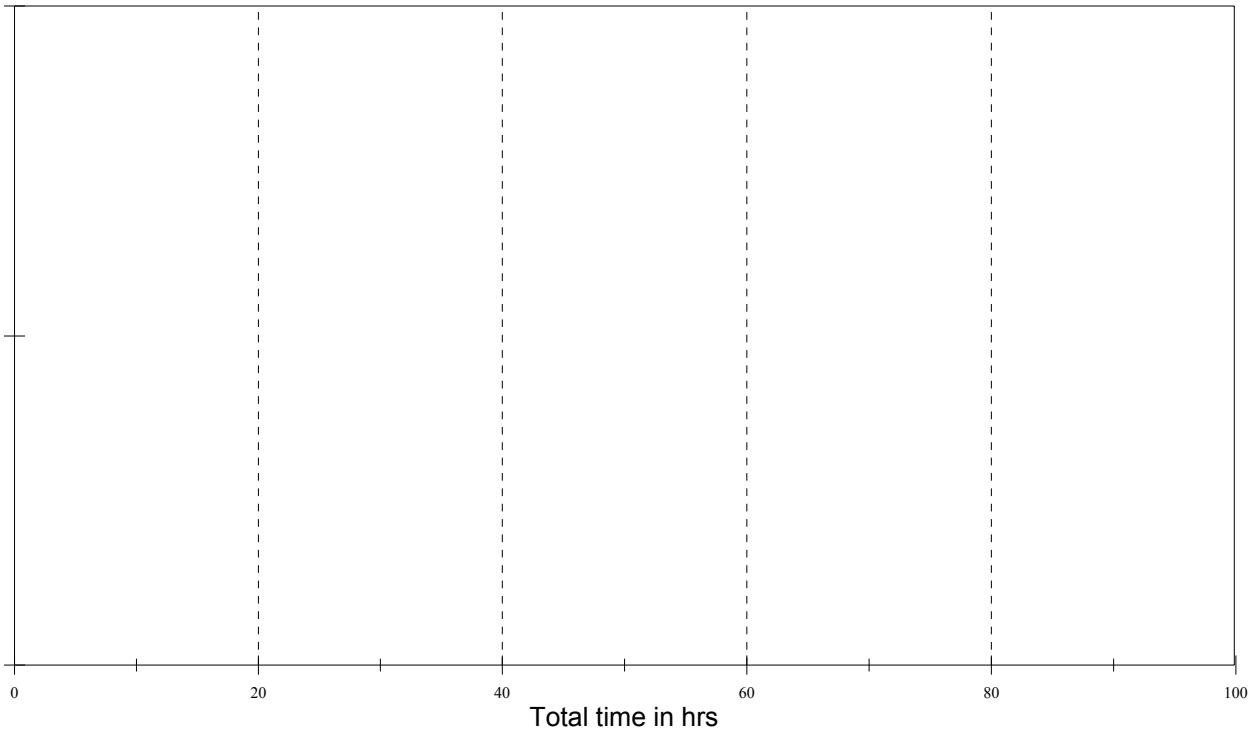
Trouble Time by Op.

NPT by Operation



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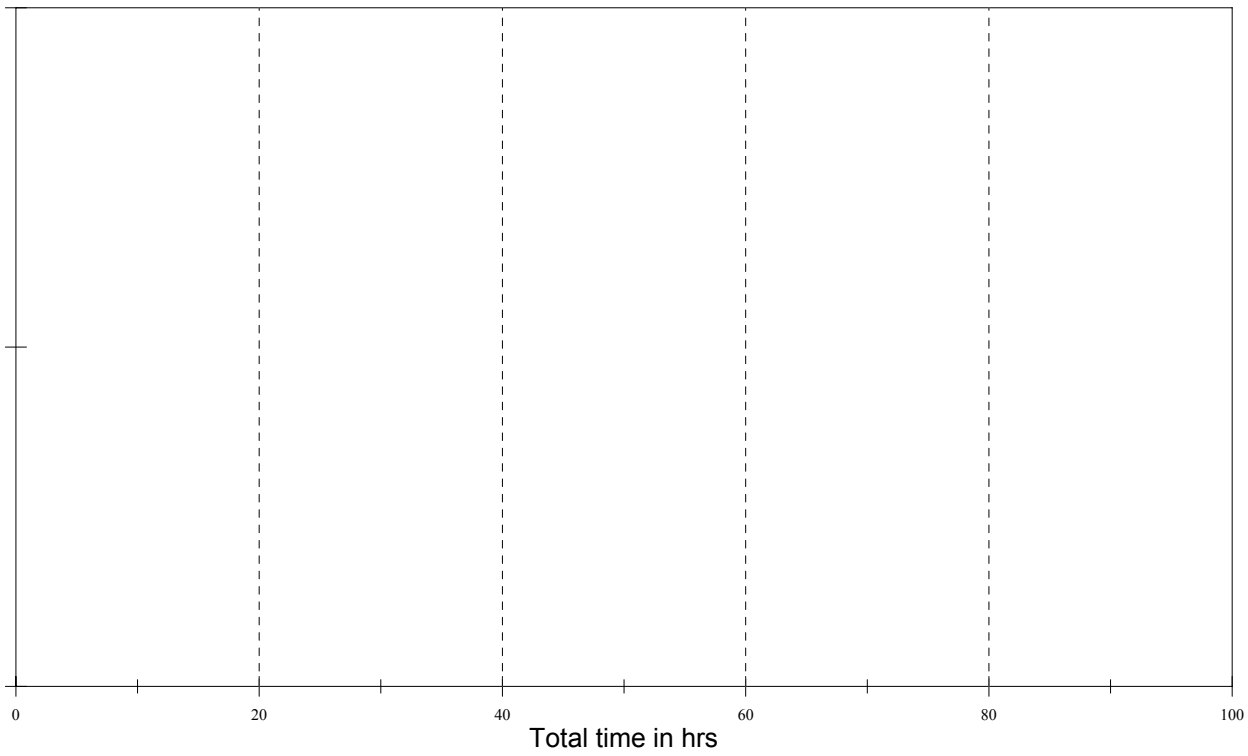
Root Cause Analysis

Root Cause Analysis



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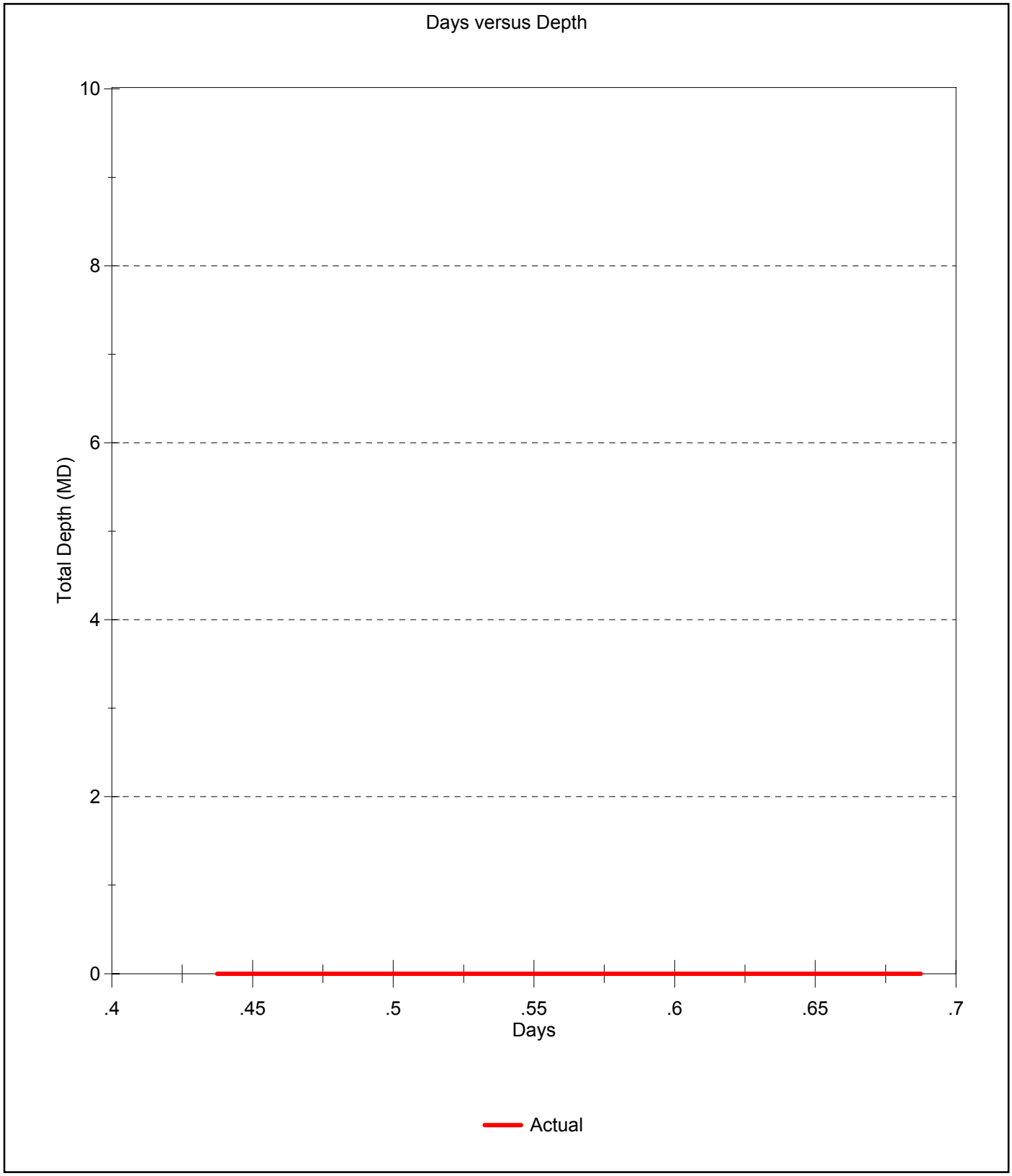
DEPTH @ 24:00 = 0.0m after 0.46 days since spud



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OMV

DAILY DRILLING REPORT # 2

DATE May 24, 2002

FROM : G.Howard / G.Othen
TO : R.King / S.Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	112.0	CUR. HOLE SIZE (")	36.00	AFE COST $	11,825,851
TVD (mBRT)	112.0	CASING OD (")	30 "	AFE BASIS :	C&S
PROGRESS (m)	34.5	SHOE TVD (mBRT)	112	DAILY COST :	$443,430.00
DAYS ON WELL	1.46	FIT (sg)	0.00	CUM COST :	$2,431,572.00
DAYS +/- CURVE		LOT (sg)	0.00		

CURRENT OP @ 0600 Making up 17 1/2" BHA and RIH

PLANNED OP. Drill 17 1/2" Hole

Summary of period 0000 to 2400 hrs

Finished running anchor #1 and cross tensioned all anchors. Ran in and tagged seafloor @ 77.5mRT. Spudded Baleen 3 @ 14:00 hrs 24th May 2002. Drilled 36" hole to 112m and ran 30" casing with shoe at 112m. Rigged up cement line.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON May 24, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
RM	P		AH	00:00	10:45	10.75	0	Finished #7 @00:10 hrs. Start # 8 @ 00:38 hrs finished # 8 @ 01:29 hrs. Start # 4 @ 03:00 hrs finished # 4 @ 03:46 hrs. Start # 5 @ 04:00 hrs finished #4 @04:48 hrs. Passed 'J' Hook to P. Conqueror and prepared to grapple for # 1 Anchor wire. Commenced to move rig Strb and pay out on # 1 chain. P. Conqueror hooked anchor cable @06:25 hrs. Moved rig back to location Finished # 1 @ 10:38 hrs.
RM	P		AH	10:45	12:00	1.25	0	Cross tensioned anchors, ballased rig down to drilling draft.
SH	P		HT	12:00	14:00	2.00	0	Held JSA. Picked up and made up 36" BHA. RIH tagged sea bed @ 77.5 mts.
SH	P		DA	14:00	15:30	1.50	0	Spudded Baleen 3 @ 14:00 hrs 24th May 2002. Drilled F /- 77.5 mts to 111.5 mts.
SH	P		WT	15:30	16:00	.50	0	Wiper trip F /- 111.5 mts back to 80 mts. RIH tagged 2 mts of fill washed down to 111.5 mts, Drilled to 112 mts.
SH	P		CMD	16:00	16:30	.50	0	Displaced 100 bbls of Floc Gel and spotted 200 bbls of Prehydrated Gell in hole.
SH	P		TO	16:30	18:00	1.50	0	Dropped totco survey, POOH F /- 112 mts. (Survey 1/2 Deg)
SH	P		CRN	18:00	21:00	3.00	0	Held JSA. Rigged up and ran 30" Casing into PGB in moon pool.
SH	P		CRN	21:00	23:00	2.00	0	Ran casing on drill pipe, ROV assisted stab in. Tagged fill @ 110 mts.
SH	P		CRN	23:00	23:30	.50	0	Washed down F /- 110 mts to 112 mts. ROV checked orientation of PGB - OK. Bullseye reading 1 deg Starb.
SC	P		CIC	23:30	24:00	.50	0	Rigged up cement line and pressure tested to 2,000 psi.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON May 25, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SC	P		CMC	00:00	01:00	1.00	0	Cement unit pumped 5 bbls sea water with dye. Pressure tested lines to 2,000 psi. Mix and pumped 772 sx of 'G' Grade cement with 92 bbls sea water and 1 % CaCl. Weight 15.9 ppg. Displaced cement with 10.7 bbls sea water. Checked for back flow Good.
SC	U		CMC	01:00	02:00	1.00	0	Attempted to Free running tool from 30" Well head, Pulling casing with PGB. Tool unable to release from housing.
SC	U		CMC	02:00	05:00	3.00	0	Held running string, and allowed sufficent time for cement to set, Mean while picked up drill pipe and racked in derrick.
SC	P		CMC	05:00	06:00	1.00	0	Took 10 kips O-Pull and applied 100 psi to string, running tool came free. Recover running tool and laid out.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
SURFACE HOLE	11.5	May 24, 2002	May 24, 2002	34.0	1.42	0.0	0.0
SURFACE CASING	0.5	May 24, 2002	May 24, 2002	34.5	1.44	0.0	0.0

DATE May 24, 2002

DAILY DRILLING REPORT # 2

BALEEN # 3

VIC/L21

BHA # 1 Length (ft) :62.2

WT BLW JAR(k-lbs):	STRING WT(k-lbs) : 40	TRQE MAX (ft-lbs): 4,000	D.C. (1) ANN. VELOCITY (mpm): 5
BHA WT(k-lbs) :	PICK UP WT(k-lbs) : 40	TRQE ON (ft-lbs):	D.C. (2) ANN VELOCITY (mpm): 5
	SLK 0FF WT(k-lbs) : 40	TRQE OFF (ft-lbs):	H.W.D.P. ANN VELOCITY (mpm): 5
			D.P. ANN VELOCITY (mpm) : 5

BHA DESCRIPTION : 26"Bit,36"H.Opener,Bit sub,3x91/2" DC,x/o,3x8" DC,x/o,

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	1272		1270	2542
Bentonite	SX	793	570	900	1123
G-neat	SX	1377		1128	2505
G+35% SiFl	SX				0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	26	26	98
Drill Water	M3	137	364	630	403
Heli-fuel	ltr	9428	153		9275
Base Oil	M3				0
Rig Fuel	M3	237			237
Brine	M3				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.50	105	97	433	1000				
2	National	6.50	105	97	433	1000				

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
30 "	30.000	112.0 112.0	112.0 112.0			Mixed and pumped 772 sx of 'G' Grade cement in 92 bbls Sea water with 1% CaCl. Weight 15.9 ppg. Displaced with 10.7 bbls Sea water. No back flow.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Well head	11.85	27.500		X-52	Lynx HD
Intermediate Joint	11.95	27.500		X-52	Lynx SA
Shoe Joint	11.98	27.500		K-55	Lynx SA

Personnel : on Site =86

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G.Howard	OMV	6
Drilling Supervisor	G.Othen	Service Company	22
Drilling Engineer	H.Heinzle	Diamond Offshore	50
Geologist		Catering	8

Safety, Inspections and Drills **Summary**

Anchors

Workboats

Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)

Weather

VISIBILITY(nm)

WIND SP. (kts)

WIND DIR (deg)

PRES.(mbars)

AIR TEMP (C)

Rig / Sea Data

RIS.TENS (klbs)

VDL (mt)

WAVES (m)

SWELL (m)

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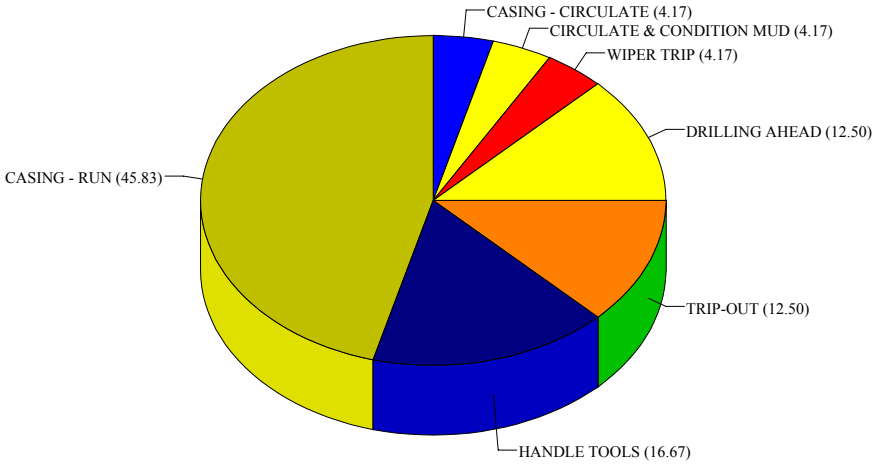
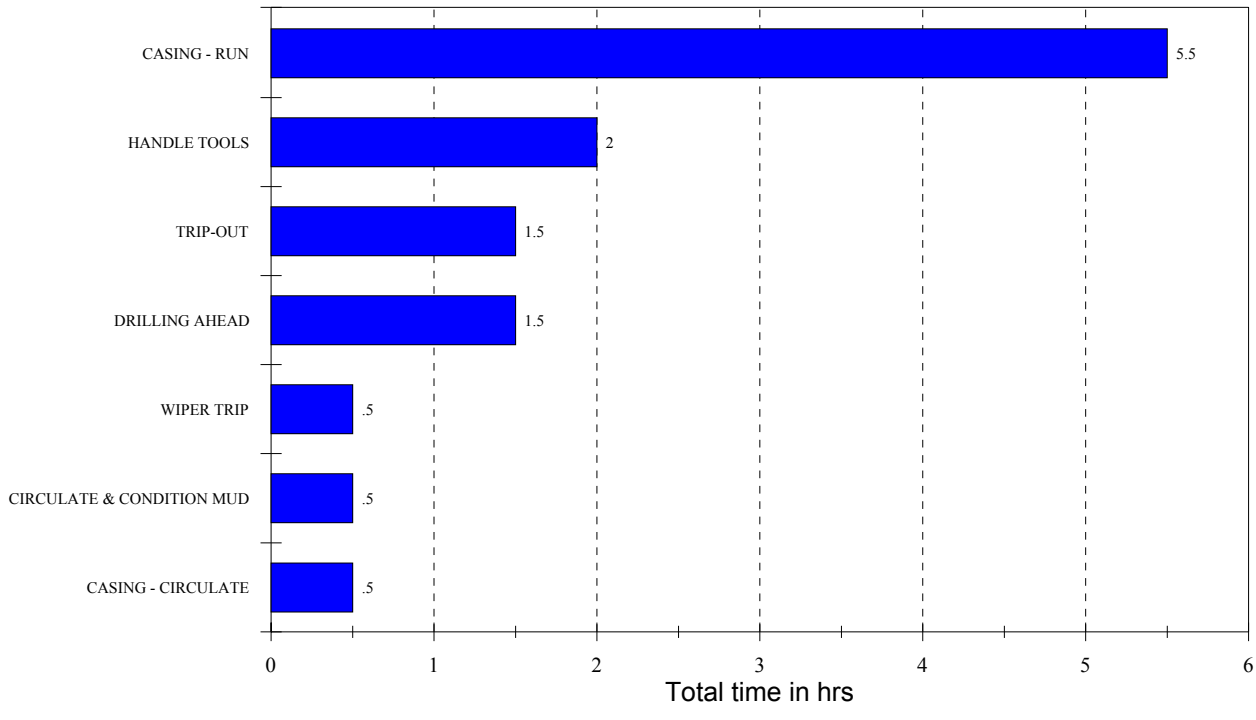
Total move time (hrs)	22.50	Total prod. time since spud (hrs) :	12.00
Total time on well excluding move (hrs)	12.00	Total troub. time since spud (hrs)	0.00
		% Trouble time	0.00

Productive Time by Op.



Productive time by Operation



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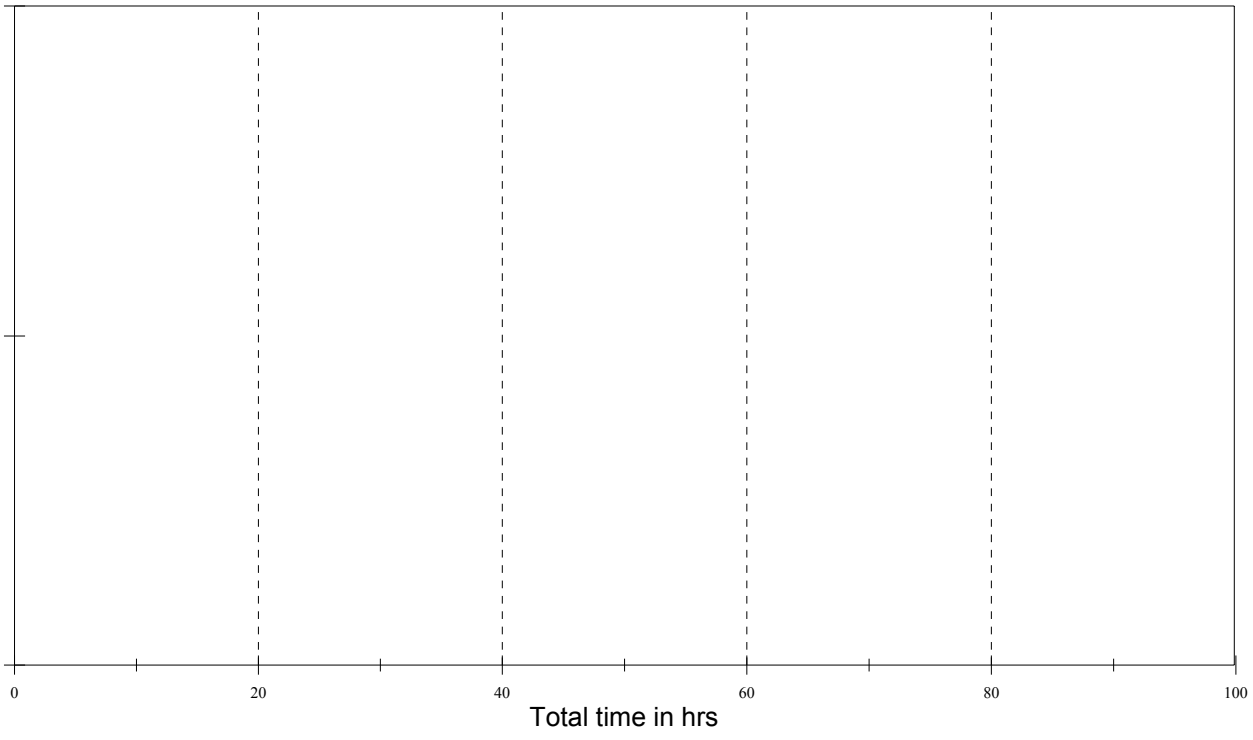
Trouble Time by Op.

NPT by Operation



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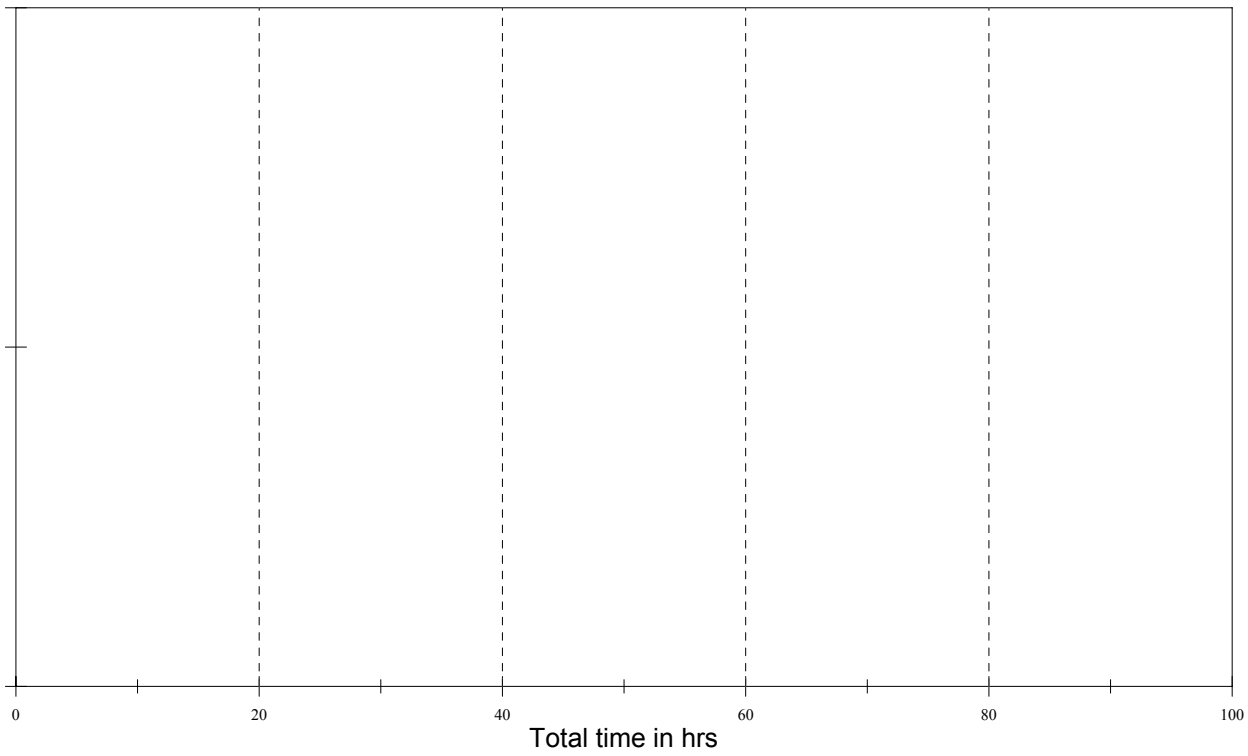
Root Cause Analysis

Root Cause Analysis



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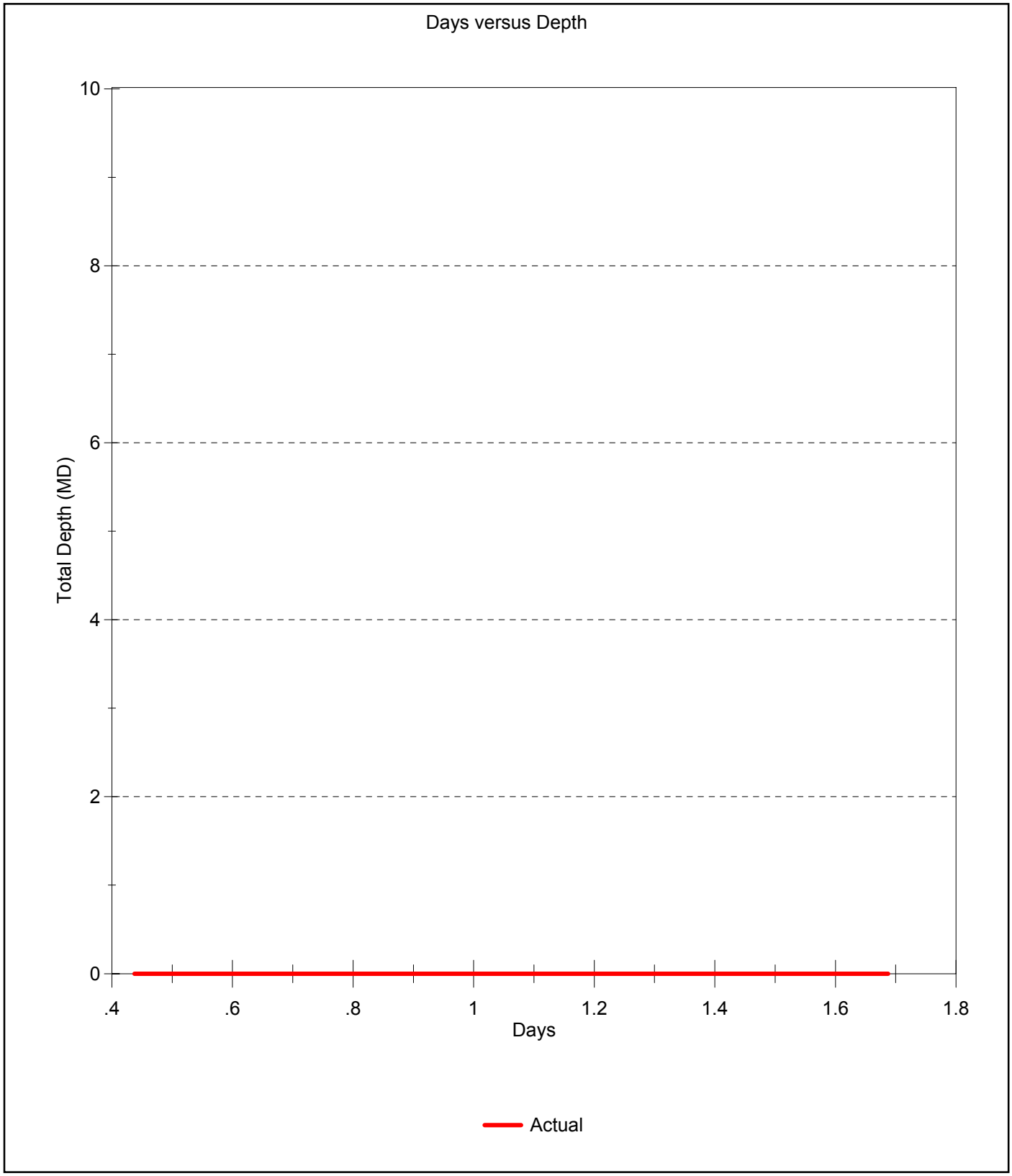
DEPTH @ 24:00 = 112.0m after 1.46 days since spud



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OMV

DAILY DRILLING REPORT # 3

DATE May 25, 2002

FROM : G.Howard / G.Othen
TO : C.Allport/R.King/SCrocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	336.0	CUR. HOLE SIZE (")	17.50	AFE COST $	11,825,851
TVD (mBRT)	334.9	CASING OD (")	30 "	AFE BASIS :	C&S
PROGRESS (m)	224.0	SHOE TVD (mBRT)	112	DAILY COST :	$406,712.00
DAYS ON WELL	2.46	FIT (sg)	0.00	CUM COST :	$2,838,284.00
DAYS +/- CURVE	-0.50	LOT (sg)	0.00		

CURRENT OP @ 0600 Running 13 3/8" casing on landing string.

PLANNED OP. Run and Cement 13 3/8" Casing. Prepare and Run Horizontal Xmas tree.

Summary of period 0000 to 2400 hrs

Mixed and pumped 772 sx of 'G' Grade cement in 92 bbls Sea water with 1% CaCl. Weight 15.9 ppg. Made up 18 3/4" Well head running tool, Made up 17 1/2" BHA and RIH. Drilled 17 1/2" Hole F /- 112 mts to 336 mts. Displaced hole to PHG and POOH.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON May 25, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
CON	P		CMC	00:00	01:00	1.00	112	Cement unit pumped 5 bbls sea water with dye. Pressure tested lines to 2,000 psi. Mix and pumped 772 sx of 'G' Grade cement with 92 bbls sea water and 1 % CaCl. Weight 15.9 ppg. Displaced cement with 10.7 bbls sea water. Checked for back flow Good.
CON	U		CMC	01:00	02:00	1.00	112	Attempted to Free running tool from 30" Well head, Pulling casing with PGB. Tool unable to release from housing.
CON	U		CMC	02:00	05:00	3.00	112	Held running string, and allowed sufficent time for cement to set, Mean while picked up drill pipe and racked in derrick.
CON	P		CMC	05:00	06:30	1.50	112	Took 10 kips O-Pull and applied 100 psi to string, running tool came free. Recover running tool and laid out.
SH	P		WH	06:30	07:30	1.00	112	Made up 18 3/4" Well head running tool. Picked up and racked 2 stands HWDP.
SH	P		HBHA	07:30	09:00	1.50	112	Picked up motor made up bit, and set angle on motor to 1.5 Deg. Pumped and tested motor.
SH	P		HBHA	09:00	10:30	1.50	112	Picked up and loaded MWD tool.
SH	P		TI	10:30	13:30	3.00	112	RIH with 17 1/2" BHA tagged top of cement @ 109 mts.
SH	P		DC	13:30	14:00	.50	112	Drilled firm cement F /- 109mts drilled shoe track and rat hole down to 112 mts.
SH	P		DA	14:00	20:30	6.50	336	Drilled 17 1/2" Hole F /- 112 mts to 336 mts. Pumping 50 bbl Hi vis as required. Hole in good condition on connections, no drag. At TD Measured depth 336 mts / Vertical Depth 334.91 mts. Incl. 9.931 / Azim 237.31 T
SH	P		CMD	20:30	21:00	.50	336	Swept 100 bbls of Hi vis and spotted 320 bbls of PHG in hole.
SH	P		TO	21:00	23:30	2.50	336	POOH F /- 336 mts, No drag, hole in good condition. Down loaded MWD tool and racked BHA.
SC	P		RRC	23:30	24:00	.50	336	Rigged up to run 13 3/8" Casing.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON May 26, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SC	P		RRC	00:00	01:00	1.00	336	Held JSA, Continued to rig up to run casing.
SC	P		CRN	01:00	05:00	4.00	336	Picked up shoe joint, intermediate and float joint, checked floats and installed centralizers. Ran 13 3/8" Casing. ROV observed entry into well head.
SC	P		CRN	05:00	06:00	1.00	336	Rigged down Tam packer, picked up 18 3/4" Well head and installed plugs.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	0.5	May 25, 2002	May 25, 2002	58.5	2.44	336.0	336.0

DATE May 25, 2002

DAILY DRILLING REPORT # 3

BALEEN # 3

VIC/L21

WBM Data	COST TODAY : $4,681	CUM. WB MUD COST: $13,970	CUM. WBM+OBM COST: $13,970	
Type : **Hi vis Sweeps**	VISCOCITY (sec/qt) : 100	API FLUID LOSS (cm3/30min) :	Cl :	SOLIDS (%vol) :
FROM : Pit	PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
TIME : 24:00	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
WEIGHT (sg) : 1.04	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
TEMP (C) :	Fann 3/6/100 :		PM :	PH :
			PF :	PHPA (ppb) :

Bit Data for Bit # 2 **IADC #** 1 1 5

SIZE (") :	**17.50**		
MANUFACTURER :	SE	AVE WOB (k-lbs) :	8
TYPE :	XT-1C	AVE RPM :	60
SERIAL # :	740844	FLOW (gpm) :	912
DEPTH IN (m RT) :	112	PUMP PRESS. (psi):	1,550
DEPTH OUT (m RT) :	336	HSI (hp/sqi) :	0.100

Wear

I	O1	D	L	B	G	O2	R
1	1	BU	A	E	I	NO	TD

NOZZLES
3 x24
x
x
x
x

Drilled over the last 24 hrs		Calculated over the bit run	
METERAGE (m) :	224	CUM.METERAGE (m)	224
ON BOTTOM HRS :	4.1	CUM. ON BOT. HRS :	4.1
IADC DRILL. HRS :	6.5	CUM.IADC DRILL HRS:	6.5
TOTAL REVS :	14,760	CUM.TOT. REVS :	14,760
ROP (m/hr):	34.5	ROP (m/hr):	34.5

BHA # 2 **Length (ft) :223.2**

WT BLW JAR(k-lbs):	STRING WT(k-lbs) : 45	TRQE MAX (ft-lbs): 3,000	D.C. (1) ANN. VELOCITY (mpm): 28
BHA WT(k-lbs) :	PICK UP WT(k-lbs) : 45	TRQE ON (ft-lbs): 3,000	D.C. (2) ANN VELOCITY (mpm): 0
	SLK 0FF WT(k-lbs) : 45	TRQE OFF (ft-lbs): 2,000	H.W.D.P. ANN VELOCITY (mpm): 24
			D.P. ANN VELOCITY (mpm) : 24

BHA DESCRIPTION : Bit,Motor,x/o,8"RLL,8" MPT,Float sub,3x8" DC,8"Jar,2x8"DC,x/o,15xHWDP

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT
RLL	7.5	DM1515HGUR	MWD Tool component
MPT	7.5	DMO153535KF8	MWD Tool component
JARS	7.5	DAH-01965	

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
232	232	5.26	207.	207.7	2.4	2.58	3.3	0.7	
260	259	5.99	213.	213.9	4.9	1.01	5.7	2.1	
289	288	7.83	237.	237.8	8.3	3.51	7.9	4.6	
314	314	9.93	237.	237.3	12.2	2.46	10.1	7.9	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	2542			2542
Bentonite	SX	1123	279	818	1662
G-neat	SX	2505	919	1140	2726
G+35% SiFl	SX				0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	25	25	98
Drill Water	M3	403	222	490	671
Heli-fuel	ltr	9275	152		9123
Base Oil	M3				0
Rig Fuel	M3	219	18	124	325
Brine	M3				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.50	68	97	456	1550				
2	National	6.50	68	97	456	1550				

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DATE May 25, 2002

DAILY DRILLING REPORT # 3

BALEEN # 3

VIC/L21

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
30 "	30.000	112.0 112.0	112.0 112.0			Mixed and pumped 772 sx of 'G' Grade cement in 92 bbls Sea water with 1% CaCl. Weight 15.9 ppg. Displaced with 10.7 bbls Sea water. No back flow.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Well head	11.85	27.500		X-52	Lynx HD
Intermediate Joint	11.95	27.500		X-52	Lynx SA
Shoe Joint	11.98	27.500		K-55	Lynx SA

Personnel : on Site =86

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G.Howard	OMV	5
Drilling Supervisor	G.Othen	Service Company	22
Drilling Engineer	H.Heinzle	Diamond Offshore	51
Geologist		Catering	8

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER Voytek Czarny

SHAKER 1
SHAKER 2
SHAKER 3
SHAKER 4
SHAKER 5

VOLUME AVAILABLE (bbl) = 308

ACTIVE	0	MIXING	
HOLE	308	SLUG	
RESERVE		HEAVY	

LOSSES (bbl) = 0

DOWNHOLE	
SURF. + EQUIP	0.00
DUMPED	

COMMENTS

Anchors

A 1	270	A 2	280	A 3	240	A 4	235	A 5	270
A 6	215	A7	280	A8	360				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Sentinel	Geelon	2467	0	0	566	0	0	0
Pacific Conqueror	Stby rig	1436	0	1434	1107	1188	838	0

Weather

VISIBILITY(nm)	10
WIND SP. (kts)	10.0
WIND DIR (deg)	909
PRES.(mbars)	1025
AIR TEMP (C)	50.0

Rig / Sea Data

RIS.TENS (klbs)	
VDL (mt)	2,205
WAVES (m)	1.5
SWELL (m)	3.0

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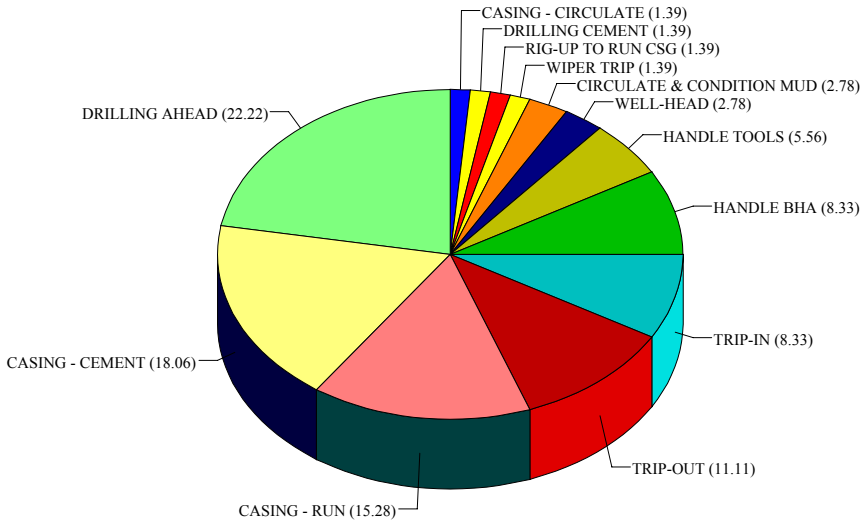
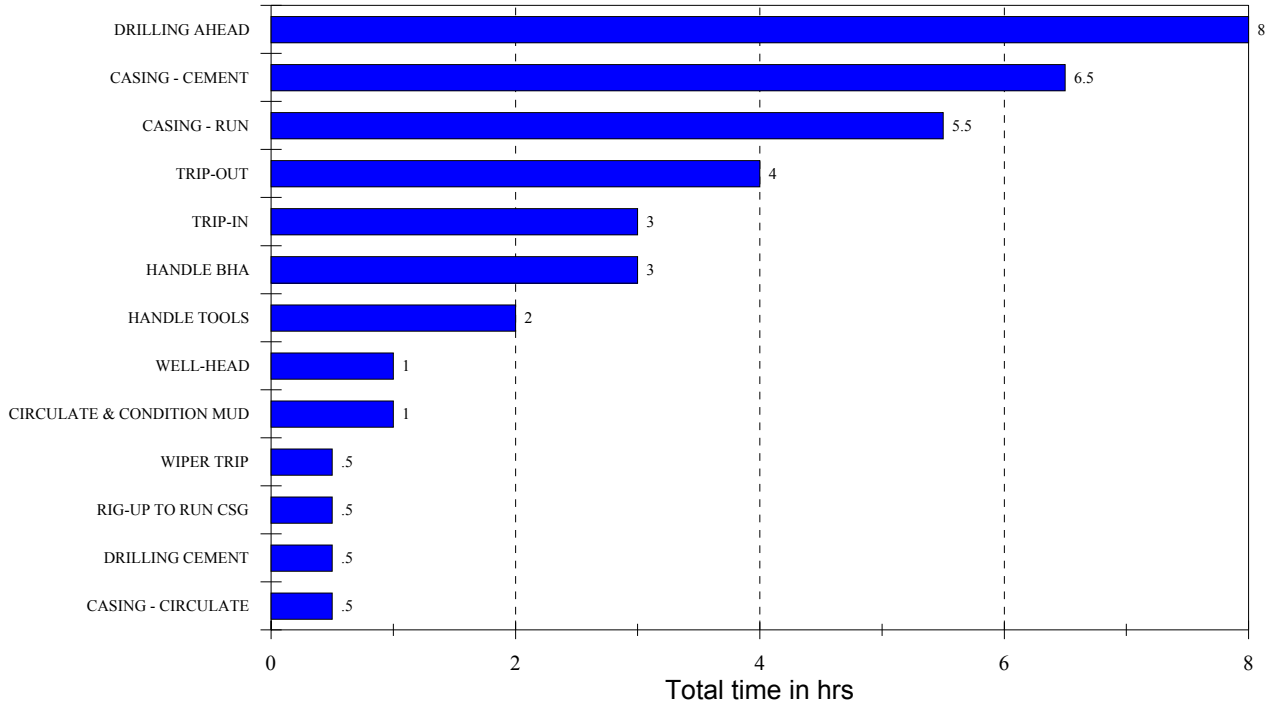
Total move time (hrs)	22.50	Total prod. time since spud (hrs) :	36.00
Total time on well excluding move (hrs)	36.00	Total troub. time since spud (hrs)	0.00
		% Trouble time	0.00

Productive Time by Op.



Productive time by Operation



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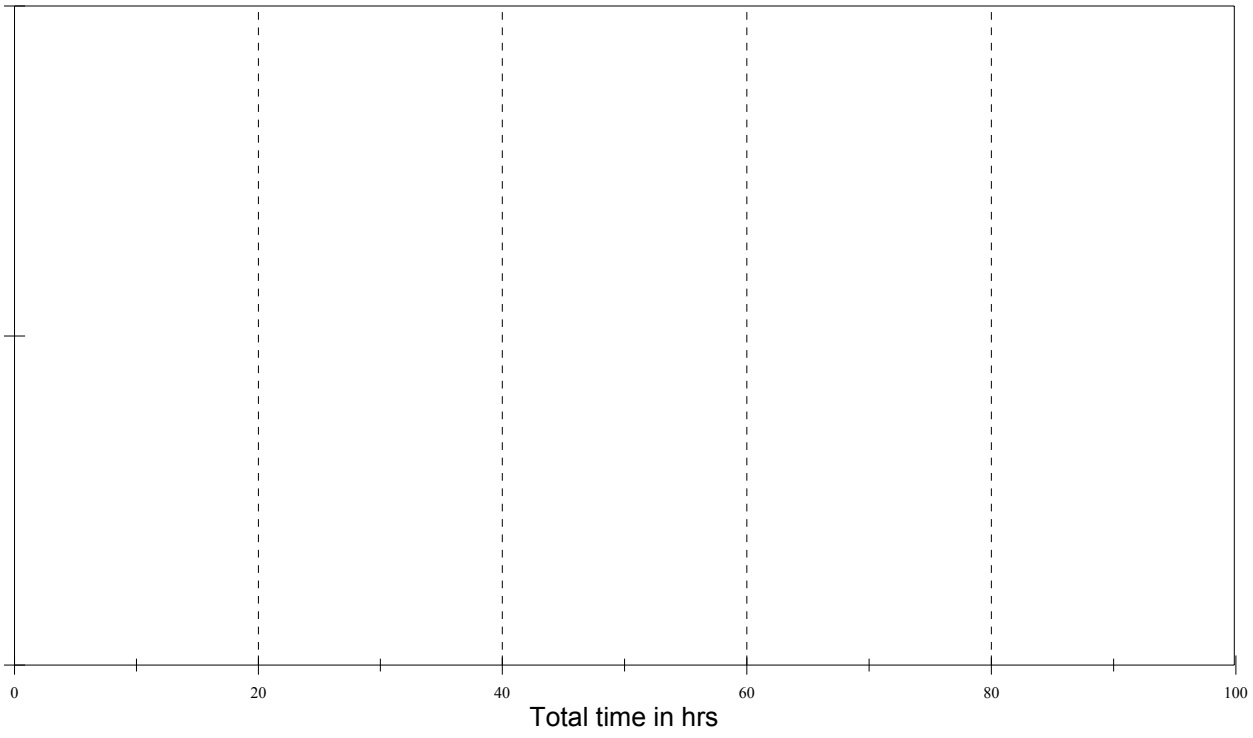
Trouble Time by Op.

NPT by Operation



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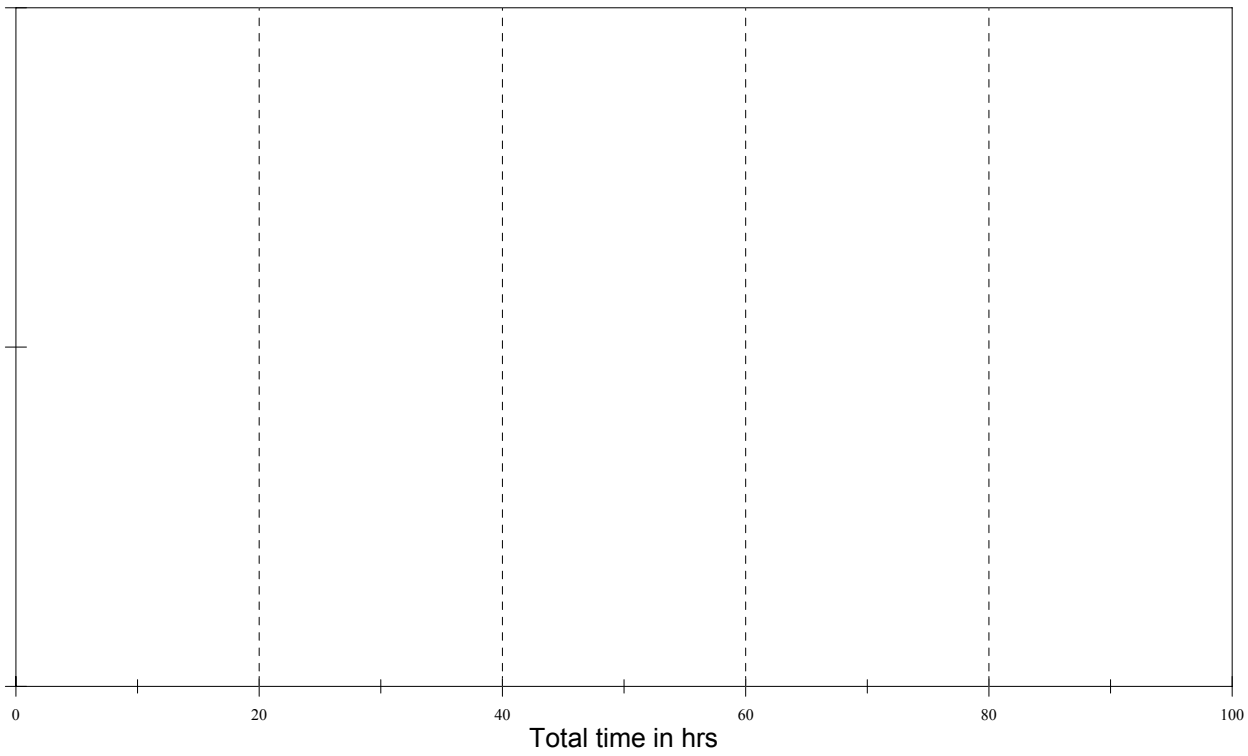
Root Cause Analysis

Root Cause Analysis



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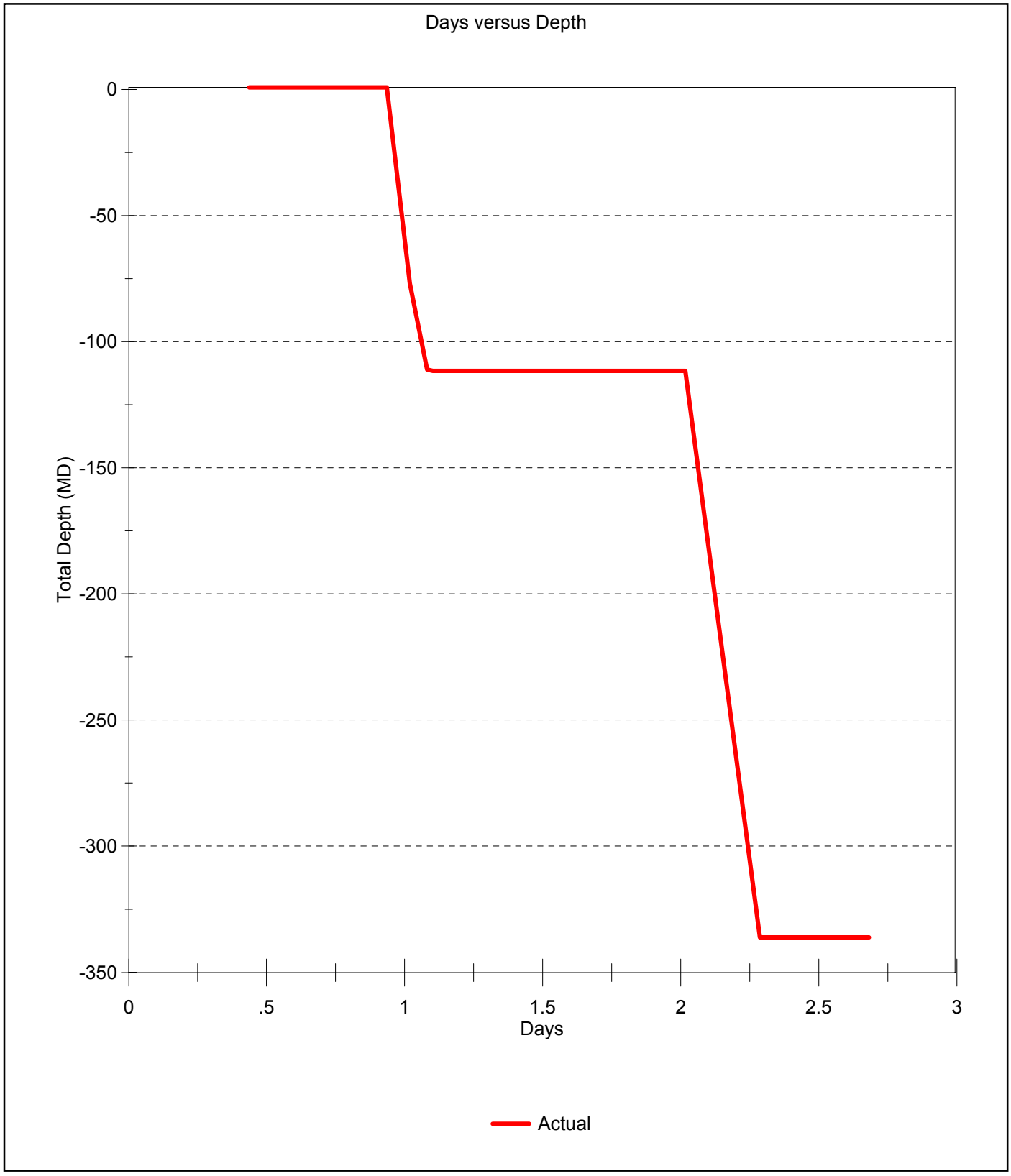
DEPTH @ 24:00 = 336.0m after 2.46 days since spud



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OMV

DAILY DRILLING REPORT # 4

DATE May 26, 2002

FROM : G.Howard / G.Othen
TO : C.Allport/R.King/SCrocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	336.0	CUR. HOLE SIZE (")	17.50	AFE COST $	11,825,851
TVD (mBRT)	334.9	CASING OD (")	13.3/8 "	AFE BASIS :	C&S
PROGRESS (m)	0.0	SHOE TVD (mBRT)	326	DAILY COST :	$494,552.00
DAYS ON WELL	3.46	FIT (sg)	0.00	CUM COST :	$3,332,836.00
DAYS +/- CURVE	-1.00	LOT (sg)	0.00		

CURRENT OP @ 0600 Changing out seals in Xmas tree, and removing AX ring.
PLANNED OP. Re run Xmas tree, Test seals. Run BOP (Changing mud pumps to 6" liners)

Summary of period 0000 to 2400 hrs

Ran 13 3/8" Casing, Mixed and pumped 95 bbls of lead and 102 bbls of tail slurry. Bumped plug. Recovered running tool, and prepared to run Xmas tree. Skid rig and ran Xmas tree. Locked tree to well head and attempted to pressure test connector.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON May 26, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SC	P		RRC	00:00	01:00	1.00	336	Held JSA, Continued to rig up to run casing.
SC	P		CRN	01:00	05:00	4.00	336	Picked up shoe joint, intermediate and float joint, checked floats and installed centralizers. Ran 13 3/8" Casing. ROV observed entry into well head.
SC	P		CRN	05:00	07:00	2.00	336	Rigged down Tam packer, picked up 18 3/4" Well head and installed plugs.
SC	P		CRN	07:00	08:30	1.50	336	Continued running 13 3/8" casing on landing string. Rigged up cement head.
SC	P		CIC	08:30	09:00	.50	336	Landed 18 3/4" well head, confirmed with 50 kips O-pull. Circulated 180 bbls @ 90 SPM, 150 Psi.
SC	P		CMC	09:00	11:00	2.00	336	Rigged up cement line and pressure tested lines to 3,000 psi. Dropped ball and displaced 10 bbls of sea water. No shear of bottom plug observed. Mixed and pumped 95 bbls of 12.5 ppg lead slurry and 102 bbls of 15.9 ppg tail slurry. Released dart and displaced with 108 bbls of sea water at 9 bbls/min. Top plug released at 2,500 psi
SC	P		CMC	11:00	12:00	1.00	336	Bumped plug 3 bbls short of calculated displacment, bumped with 500 psi over final displacment of 350 - 850 psi. Pressure bled off. Released running tool.
SC	P		TO	12:00	13:00	1.00	336	POOH with Running tool. Recovered to surface laid out tool.
CTB	P		XT	13:00	15:00	2.00	336	Rigged up to run SST. (Moved rig 100 ft strb) Held JSA, positioned SST on skid beams.
CTB	P		XT	15:00	17:00	2.00	336	Function tested Tree running tool and made up to SST. Made up running string to tree running tool. Picked up and turned tree and repositioned rig.
CTB	P		XT	17:00	18:30	1.50	336	Ran SST.
CTB	P		XT	18:30	20:00	1.50	336	Adjusted rig position, landed and locked SST on Well head.
CTB	P		XT	20:00	20:30	.50	336	Confirmed Xmas tree locked with 50 kips O-pull.
CTB	TP	WHD	XT	20:30	24:00	3.50	336	Attempted to pressure test Connector. Unable to pressure up seal on connector. Trouble shoot leak.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON May 27, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
CTB	TP	WHD	XT	00:00	02:00	2.00	336	Continued to troubleshoot leak on well head seals. (Decision made to recover Xmas tree and replace Ax Ring and Metal end cap seal) Held JSA prior pulling Xmas tree.
CTB	TP	WHD	XT	02:00	03:00	1.00	336	Unlocked connector and recovered Xmas tree.
CTB	TP	WHD	XT	03:00	06:00	3.00	336	Skidded rig off location, Picked up and secured Xmas tree so as to allow ejection of AX ring, and replacment of Metal end cap seal. Obvious damage to end cap seal on removal. (ROV inspected and installed new AX ring on well head, This saved disconnecting the running tool and skidding Xmas tree over to stump to fit new AX ring)

DATE May 26, 2002

DAILY DRILLING REPORT # 4

BALEEN # 3

VIC/L21

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	13.5	May 25, 2002	May 26, 2002	71.5	2.98	336.0	336.0
COMPLETION/TIE-BACK	11.0	May 26, 2002	May 26, 2002	82.5	3.44	336.0	336.0

WBM Data COST TODAY : $0 CUM. WB MUD COST: $13,970 CUM. WBM+OBM COST: $13,970

Type :	VISCOCITY (sec/qt) :	API FLUID LOSS (cm3/30min) :	Cl :	SOLIDS (%vol) :
PHG	PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
FROM : Pit	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
TIME : 24:00	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
WEIGHT (sg) : 1.04	Fann 3/6/100 :		PM :	PH :
TEMP (C) :			PF :	PHPA (ppb) :

BHA # 3 **Length (ft) :**

WT BLW JAR(k-lbs):	STRING WT(k-lbs) :	TRQE MAX (ft-lbs):	D.C. (1) ANN. VELOCITY (mpm): 0
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	TRQE ON (ft-lbs):	D.C. (2) ANN VELOCITY (mpm): 0
	SLK 0FF WT(k-lbs) :	TRQE OFF (ft-lbs):	H.W.D.P. ANN VELOCITY (mpm): 0
			D.P. ANN VELOCITY (mpm) : 0

BHA DESCRIPTION :

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
232	232	5.26	207.	207.7	2.4	2.58	3.3	0.7	
260	259	5.99	213.	213.9	4.9	1.01	5.7	2.1	
289	288	7.83	237.	237.8	8.3	3.51	7.9	4.6	
314	314	9.93	237.	237.3	12.2	2.46	10.1	7.9	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	2542			2542
Bentonite	SX	1662			1662
G-neat	SX	2726	784		1942
G+35% SiFl	SX				0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	25	25	98
Drill Water	M3	671	148		523
Heli-fuel	ltr	9123			9123
Base Oil	M3				0
Rig Fuel	M3	325	16		309
Brine	M3				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.50		97						
2	National	6.50		97						

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Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
13.3/8 "	13.375	327.4 327.4	326.4 326.4			Tested lines to 3,000 psi. Dropped ball and displaced with 10 bbls of sea water no shear observed. Mixed and pumped 95 bbls of lead slurry and 102 bbls of tail slurry. Released dart,displaced with 111 bbls.Bumped plug 10 bbls short of calc displacment.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Well head	12.13	12.452	68.0	K-55	BTC
Non cross Coupling joint	12.21	12.452	68.0	K-55	BTC
13 3/8" Casing joints	191.23	12.452	68.0	K-55	BTC
Float joint	12.31	12.452	68.0	K-55	BTC
Intermediate joint	11.74	12.452	68.0	K-55	BTC
Shoe joint	12.60	12.452	68.0	K-55	BTC

Personnel : on Site =85

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G.Howard	OMV	5
Drilling Supervisor	G.Othen	Service Company	22
Drilling Engineer	H.Heinzle	Diamond Offshore	50
Geologist		Catering	8

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER V.Czarny

SHAKER 1
SHAKER 2
SHAKER 3
SHAKER 4
SHAKER 5

VOLUME AVAILABLE (bbl) = 170

ACTIVE		MIXING	
HOLE		SLUG	
RESERVE	170	HEAVY	

LOSSES (bbl) = 0

DOWNHOLE	
SURF. + EQUIP	0.00
DUMPED	

COMMENTS

Dumped and cleaned tanks. Kept 170 bbls of PHG for drilling out.

Anchors

A 1	250	A 2	275	A 3	220	A 4	255	A 5	200
A 6	175	A7	280	A8	305				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	Standby	223	0	228	172	1188	838	
Pacific Sentinel	Geelong	392	0	0	0	0	0	

Weather

VISIBILITY(nm)	12
WIND SP. (kts)	15.0
WIND DIR (deg)	265
PRES.(mbars)	1020
AIR TEMP (C)	16.0

Rig / Sea Data

RIS.TENS (klbs)	
VDL (mt)	1,975
WAVES (m)	0.9
SWELL (m)	1.5

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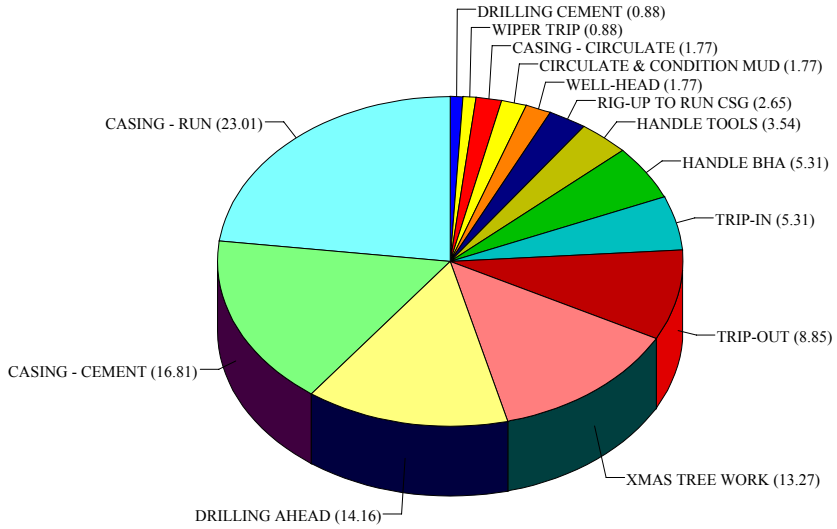
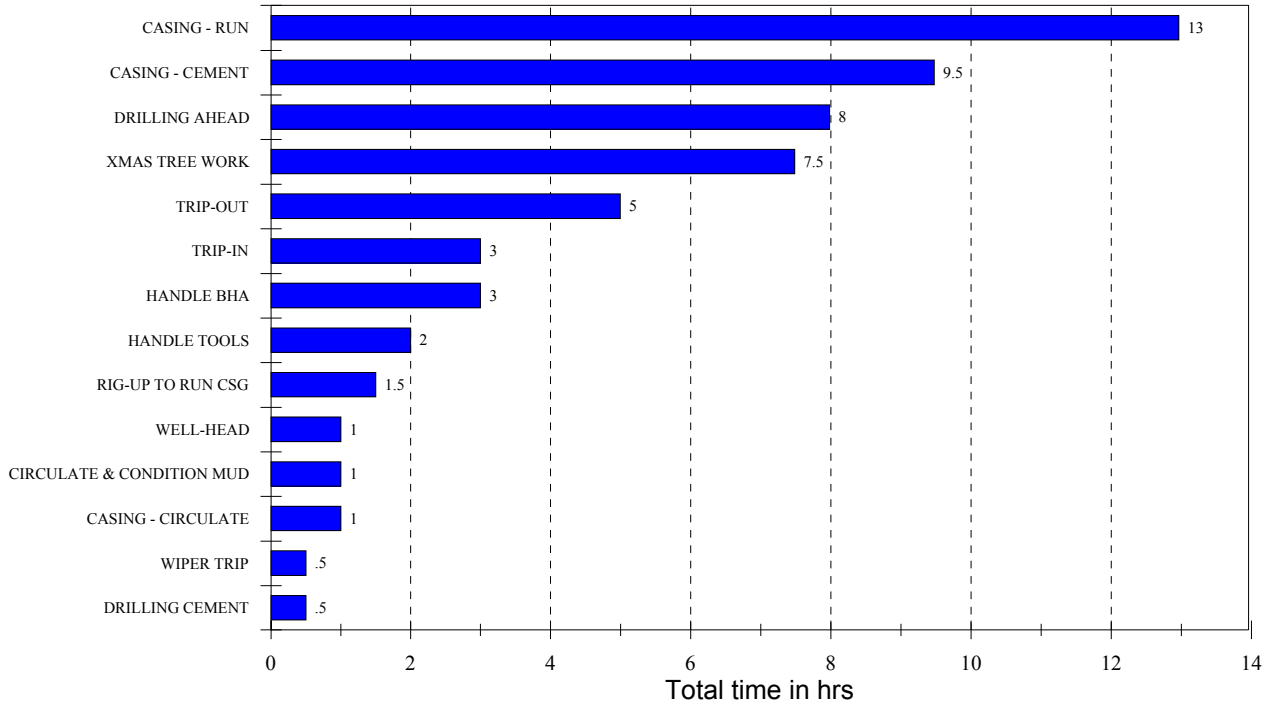
Total move time (hrs)	22.50	Total prod. time since spud (hrs) :	56.50
Total time on well excluding move (hrs)	60.00	Total troub. time since spud (hrs)	3.50
		% Trouble time	5.83

Productive Time by Op.



Productive time by Operation



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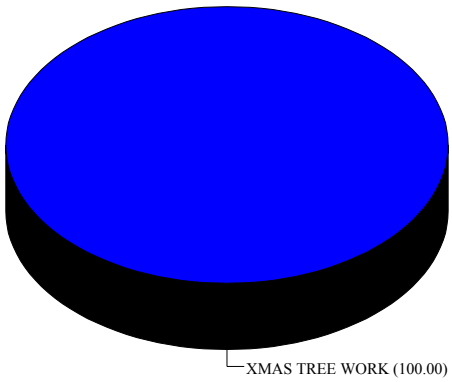
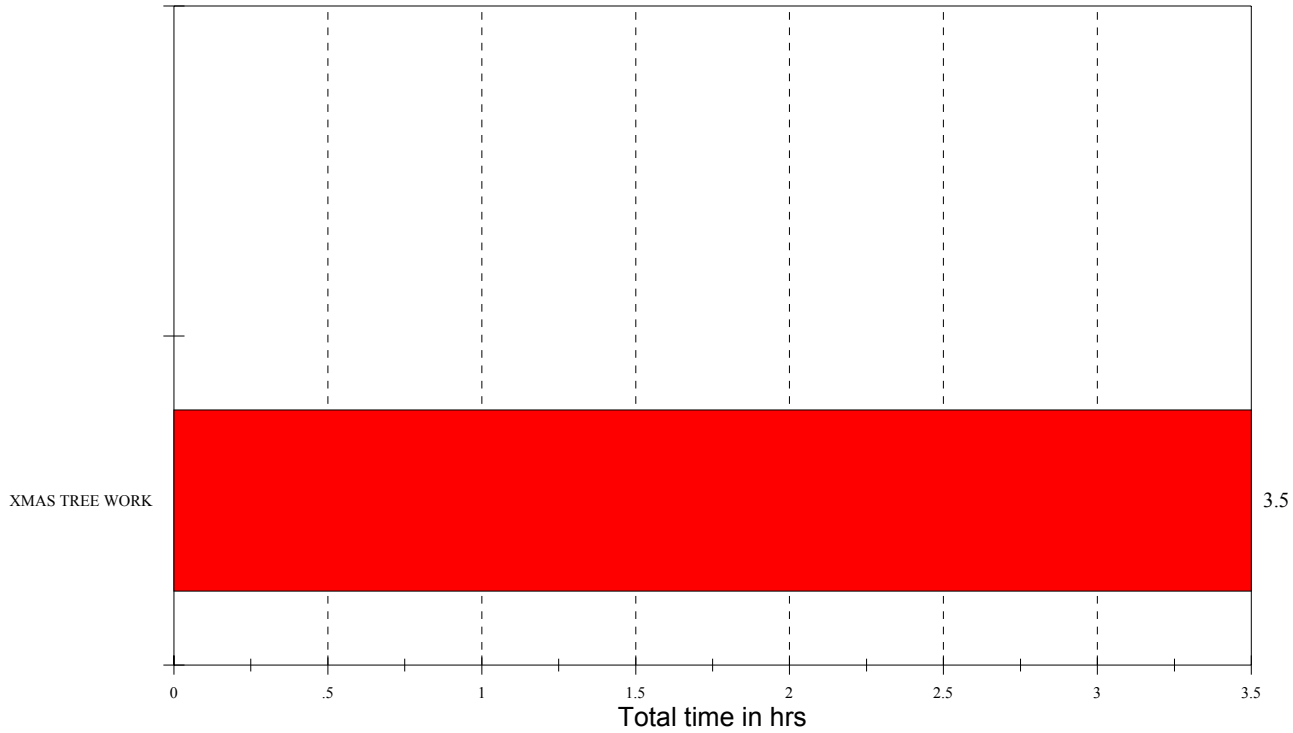
Trouble Time by Op.



NPT by Operation



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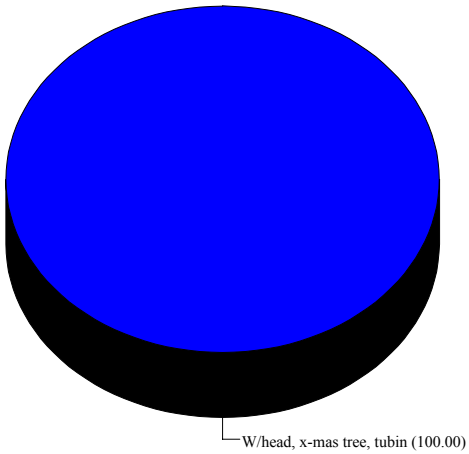
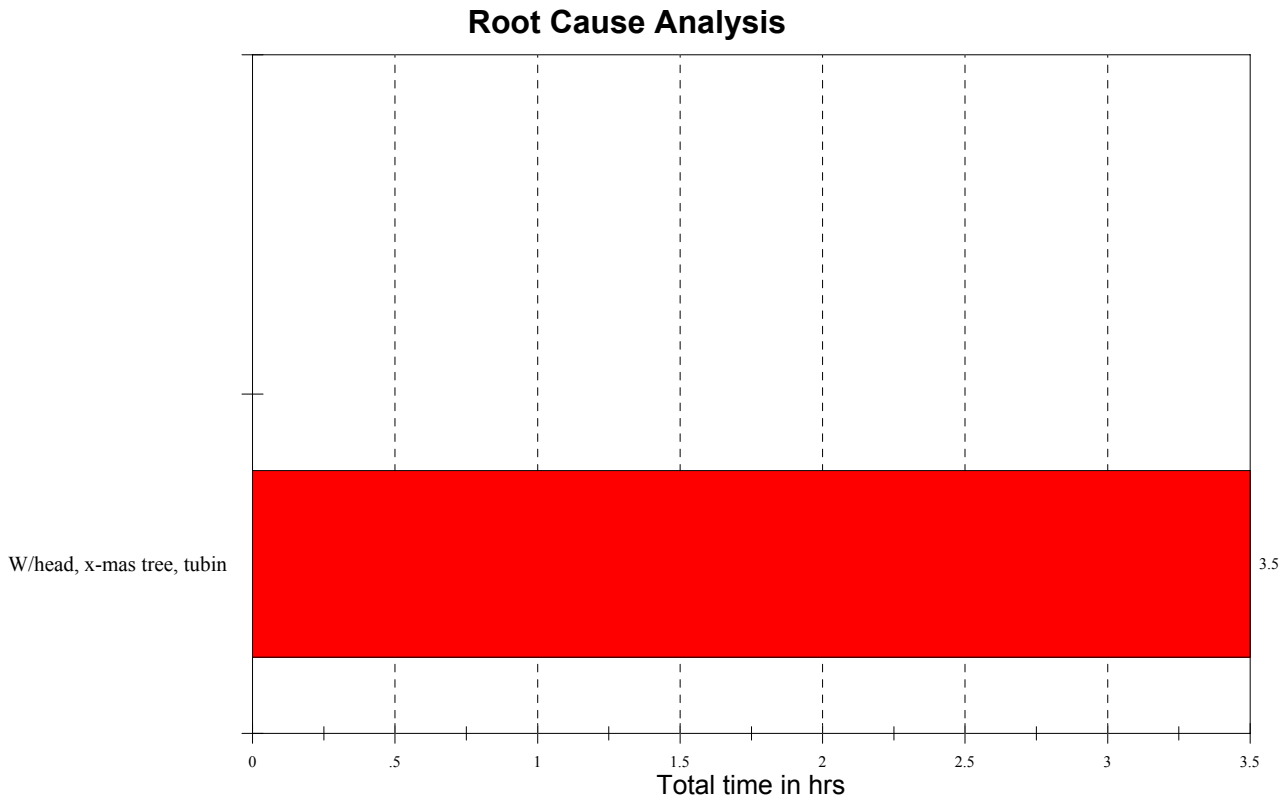
Root Cause Analysis





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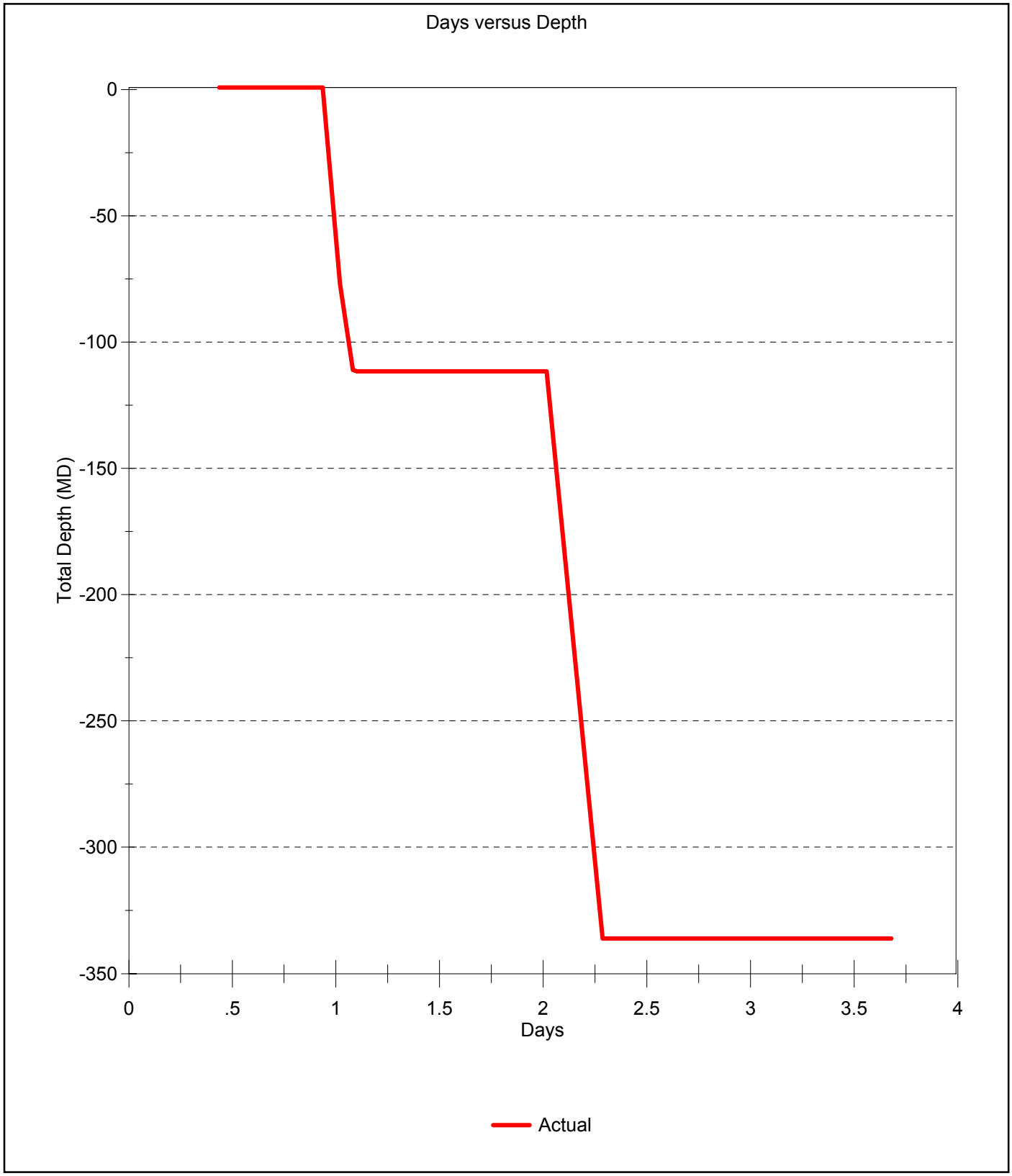
DEPTH @ 24:00 = 336.0m after 3.46 days since spud



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OMV

DAILY DRILLING REPORT # 5

DATE May 27, 2002

FROM : G.Howard / G.Othen
TO : C.Allport/R.King/SCrocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	336.0	CUR. HOLE SIZE (")	17.50	AFE COST $	11,825,851
TVD (mBRT)	336.0	CASING OD (")	13.3/8 "	AFE BASIS :	C&S
PROGRESS (m)	0.0	SHOE TVD (mBRT)	326	DAILY COST :	$435,030.00
DAYS ON WELL	4.46	FIT (sg)	0.00	CUM COST :	$3,767,866.00
DAYS +/- CURVE	0.00	LOT (sg)	0.00		

CURRENT OP @ 0600 Running BOP

PLANNED OP. Run and test BOP, RIH with 12 1/4" Drilling assembly.

Summary of period 0000 to 2400 hrs

Unable to pressure test VX seal between Xmas tree and wellhead. Recovered tree and replaced Metal end cap seal and installed new VX ring on well head. Re-ran Xmas tree and attempt to test, leak occurred at 4,000 psi. Pumped dye and established no leak on VX ring, leak occuring past end cap seal and entering well bore. Recovered running tool and prepared to run BOP.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON May 27, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
CTB	TP	WHD	XT	00:00	02:00	2.00	336	Continued to troubleshoot leak on well head seals. (Decision made to recover Xmas tree and replace VX Ring and Metal end cap seal) Held JSA prior pulling Xmas tree.
CTB	TP	WHD	XT	02:00	03:00	1.00	336	Unlocked connector and recovered Xmas tree.
CTB	TP	WHD	XT	03:00	07:00	4.00	336	Skidded rig off location, Picked up and secured Xmas tree so as to allow ejection of VX ring, and replacment of Metal end cap seal. Obvious damage to end cap seal on removal. (ROV inspected and installed new VX ring on well head, This saved disconnecting the running tool and skidding Xmas tree over to stump to fit new VX ring)
CTB	TP	WHD	XT	07:00	10:30	3.50	336	Moved rig back on location, Re ran SST and landed on well head, locked SST on to well head and confirmed with 50 kips O-pull.
CTB	TP	WHD	XT	10:30	11:30	1.00	336	Connected hot stab into AXT receptacle and attempted to pressure test SST. leak observed at hot stab, removed hot stab checked O ring and restabbed, hot stab continued to leak.
CTB	TP	WHD	XT	11:30	18:00	6.50	336	Rigged up deployment frame with auxiliary test line, tested on surface to 5,000 psi, OK. ROV hose failure recovered to surface and repaired. Ran deployment frame ROV inserted auxiliary hot stab into AXT receptacle and attempted to test SST. Pressured up to 4,000 psi then failed.
CTB	TP	WHD	XT	18:00	19:30	1.50	336	Pumped Dye and established SST not to be leaking at connector.
CTB	TP	WHD	XT	19:30	20:00	.50	336	Released running tool and found Dye in well bore. Indications of a metal end cap seal failure.
CTB	TP	WHD	XT	20:00	22:00	2.00	336	Recovered running tool, and pulled deployment frame. (Moved rig off location)
SC	P		BOP	22:00	22:30	.50	336	Prepared moon pool to run BOP.
SC	P		BOP	22:30	24:00	1.50	336	Held JSA, rigged up to run BOP. Picked up 2x50' joints and 1x10' joint of riser and made up.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON May 28, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SC	P		BOP	00:00	01:00	1.00	336	Held JSA with on tour crew, Continued to rig up to run BOP.
SC	P		BOP	01:00	03:00	2.00	336	Function tested BOP.
SC	P		BOP	03:00	04:00	1.00	336	Installed guide lines in BOP posts.
SC	P		BOP	04:00	04:30	.50	336	Skidded rig over location.
SC	P		BOP	04:30	06:00	1.50	336	Ran BOP, tested choke and kill lines to 5,000 psi.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0

DATE May 27, 2002

DAILY DRILLING REPORT # 5

BALEEN # 3

VIC/L21

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
SURFACE CASING	15.5	May 25, 2002	May 27, 2002	73.5	3.06	336.0	336.0
COMPLETION/TIE-BACK	33.0	May 26, 2002	May 27, 2002	106.5	4.44	336.0	336.0

WBM Data COST TODAY : $65,039 CUM. WB MUD COST: $79,009 CUM. WBM+OBM COST: $79,009

Type :	VISCOCITY (sec/qt) :	API FLUID LOSS (cm3/30min) :	Cl :	SOLIDS (%vol) :
	PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
FROM : Pit	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
TIME :	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
WEIGHT (sg) :			PM :	PH :
TEMP (C) :	Fann 3/6/100 :		PF :	PHPA (ppb) :

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
232	232	5.26	207.	207.7	2.4	2.58	3.3	0.7	
260	259	5.99	213.	213.9	4.9	1.01	5.7	2.1	
289	288	7.83	237.	237.8	8.3	3.51	7.9	4.6	
314	314	9.93	237.	237.3	12.2	2.46	10.1	7.9	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	2542	578		1964
Bentonite	SX	1662			1662
G-neat	SX	1942			1942
G+35% SiFl	SX				0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	25	25	98
Drill Water	M3	523	78	133	578
Heli-fuel	ltr	9123	993		8130
Base Oil	M3				0
Rig Fuel	M3	309	12		297
Brine	M3				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00		97						
2	National	6.00		97						

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
13.3/8 "	13.375	327.4 327.4	326.4 326.4			Tested lines to 3,000 psi. Dropped ball and displaced with 10 bbls of sea water no shear observed. Mixed and pumped 95 bbls of lead slurry and 102 bbls of tail slurry. Released dart,displaced with 111 bbls.Bumped plug 10 bbls short of calc displacment.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Well head	12.13	12.452	68.0	K-55	BTC
Non cross Coupling joint	12.21	12.452	68.0	K-55	BTC
13 3/8" Casing joints	191.23	12.452	68.0	K-55	BTC
Float joint	12.31	12.452	68.0	K-55	BTC
Intermediate joint	11.74	12.452	68.0	K-55	BTC
Shoe joint	12.60	12.452	68.0	K-55	BTC

Personnel : on Site =90

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G.Howard	OMV	6
Drilling Supervisor	G.Othen	Service Company	25
Drilling Engineer	H.Heinzle	Diamond Offshore	51
Geologist	Toliday / Boothby	Catering	8

Safety, Inspections and Drills **Summary**

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Shakers, Volumes and Losses Data

ENGINEER V.Czarny

SHAKER 1	**VOLUME AVAILABLE (bbl) =**	**0**	**LOSSES (bbl) =**	**0**	**COMMENTS**
SHAKER 2						
SHAKER 3	ACTIVE	MIXING	DOWNHOLE		In the process of building new mud system.
SHAKER 4	HOLE	SLUG	SURF. + EQUIP	0.00	
SHAKER 5	RESERVE	HEAVY	DUMPED		

Anchors

A 1	280	A 2	210	A 3	160	A 4	315	A 5	235
A 6	140	A7	270	A8	205				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	Locatio	219	0	0	168	1188	838	
Pacific Sentinel	Locatio	347	0	620	107	0	0	

Weather

VISIBILITY(nm)	12
WIND SP. (kts)	22.0
WIND DIR (deg)	265
PRES.(mbars)	1020
AIR TEMP (C)	14.0

Rig / Sea Data

RIS.TENS (klbs)	
VDL (mt)	2,173
WAVES (m)	0.9
SWELL (m)	1.5

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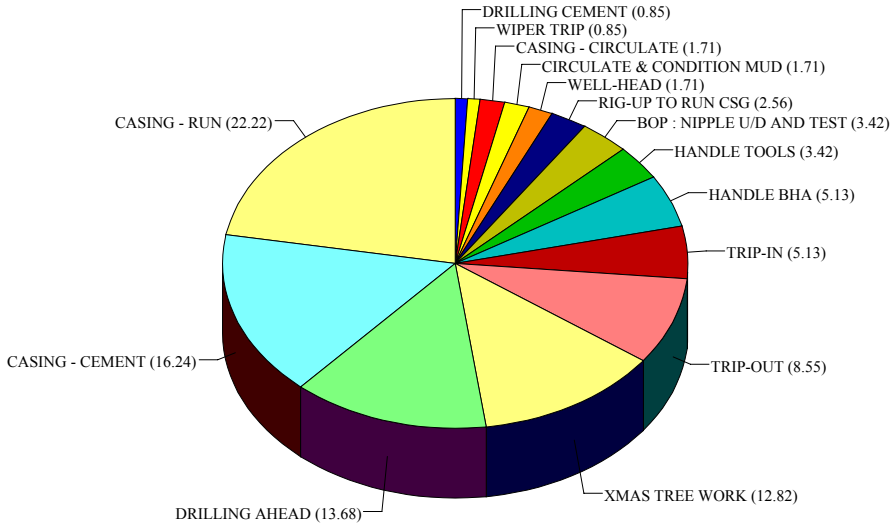
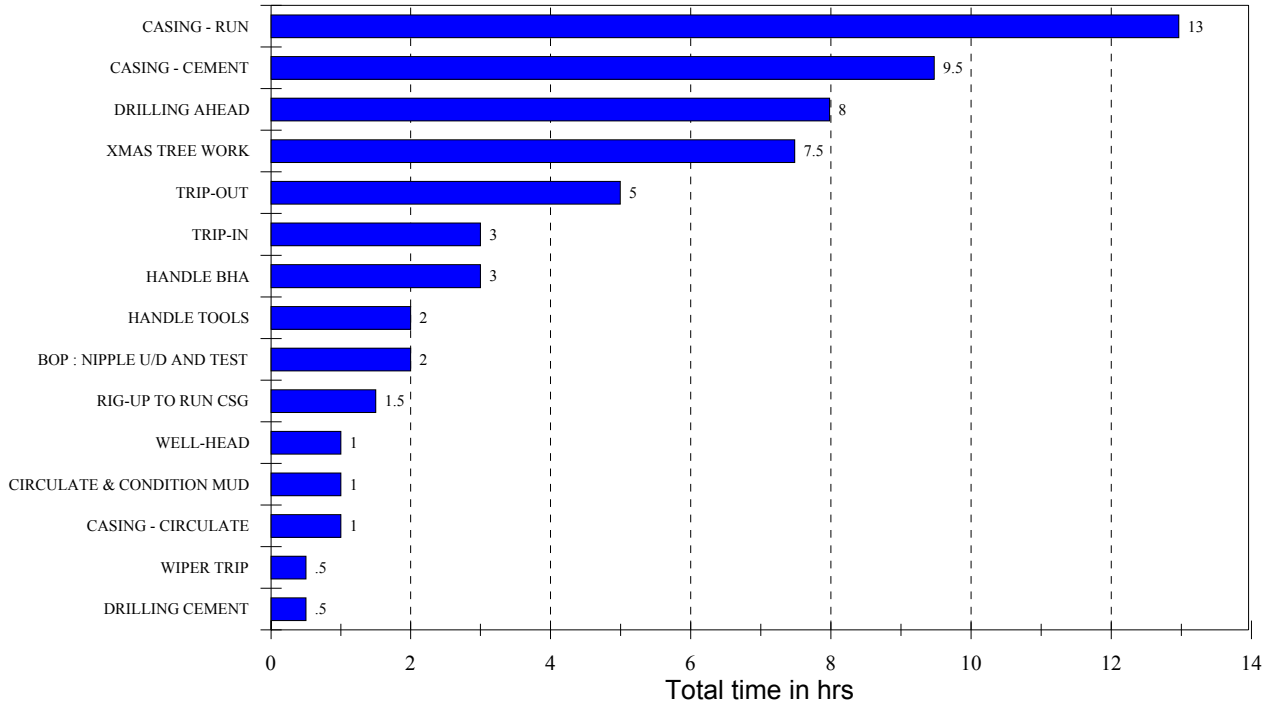
Total move time (hrs)	22.50	Total prod. time since spud (hrs) :	58.50
Total time on well excluding move (hrs)	84.00	Total troub. time since spud (hrs)	25.50
		% Trouble time	30.36

Productive Time by Op.



Productive time by Operation



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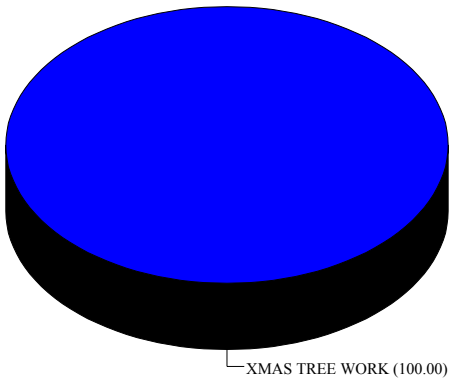
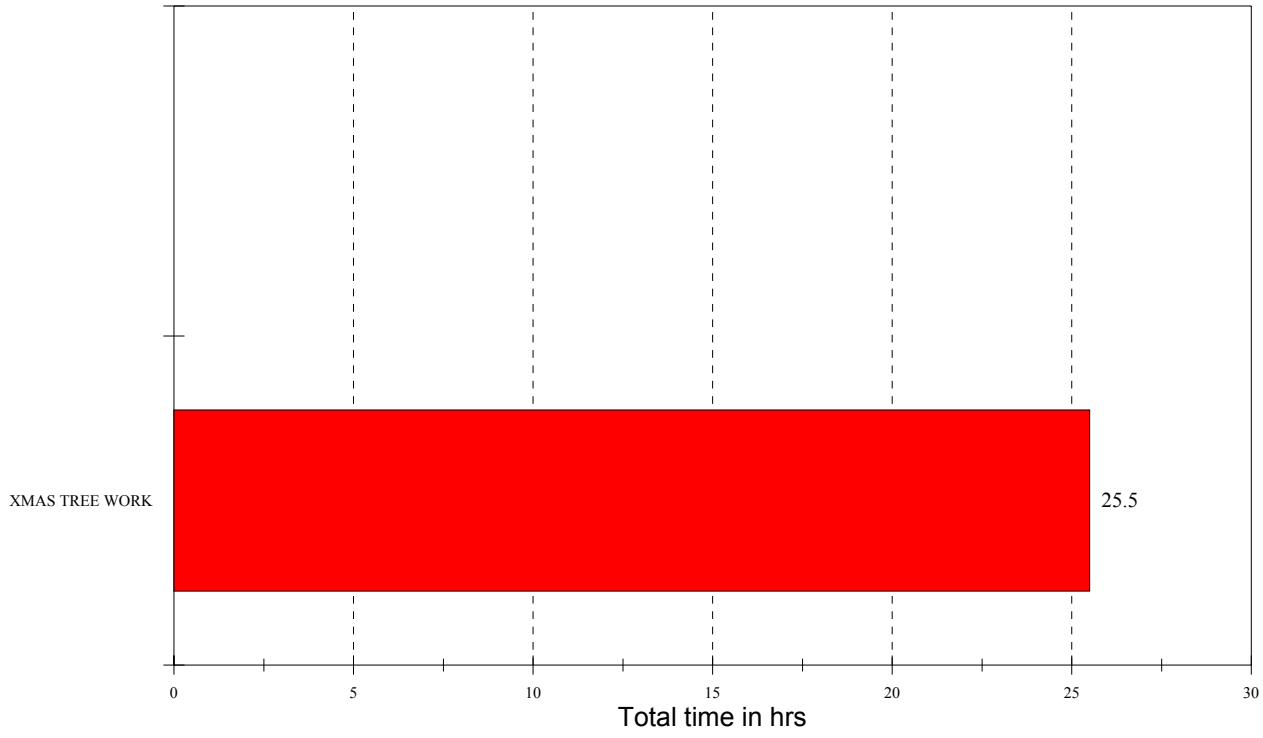
Trouble Time by Op.



NPT by Operation



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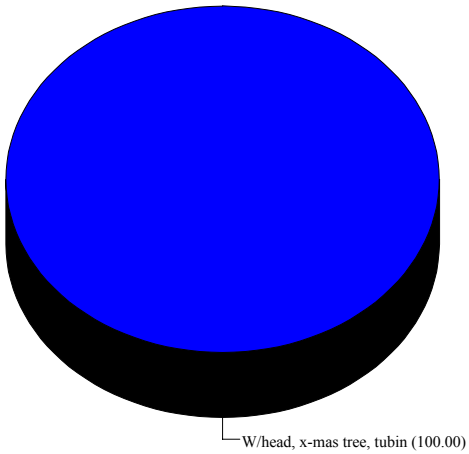
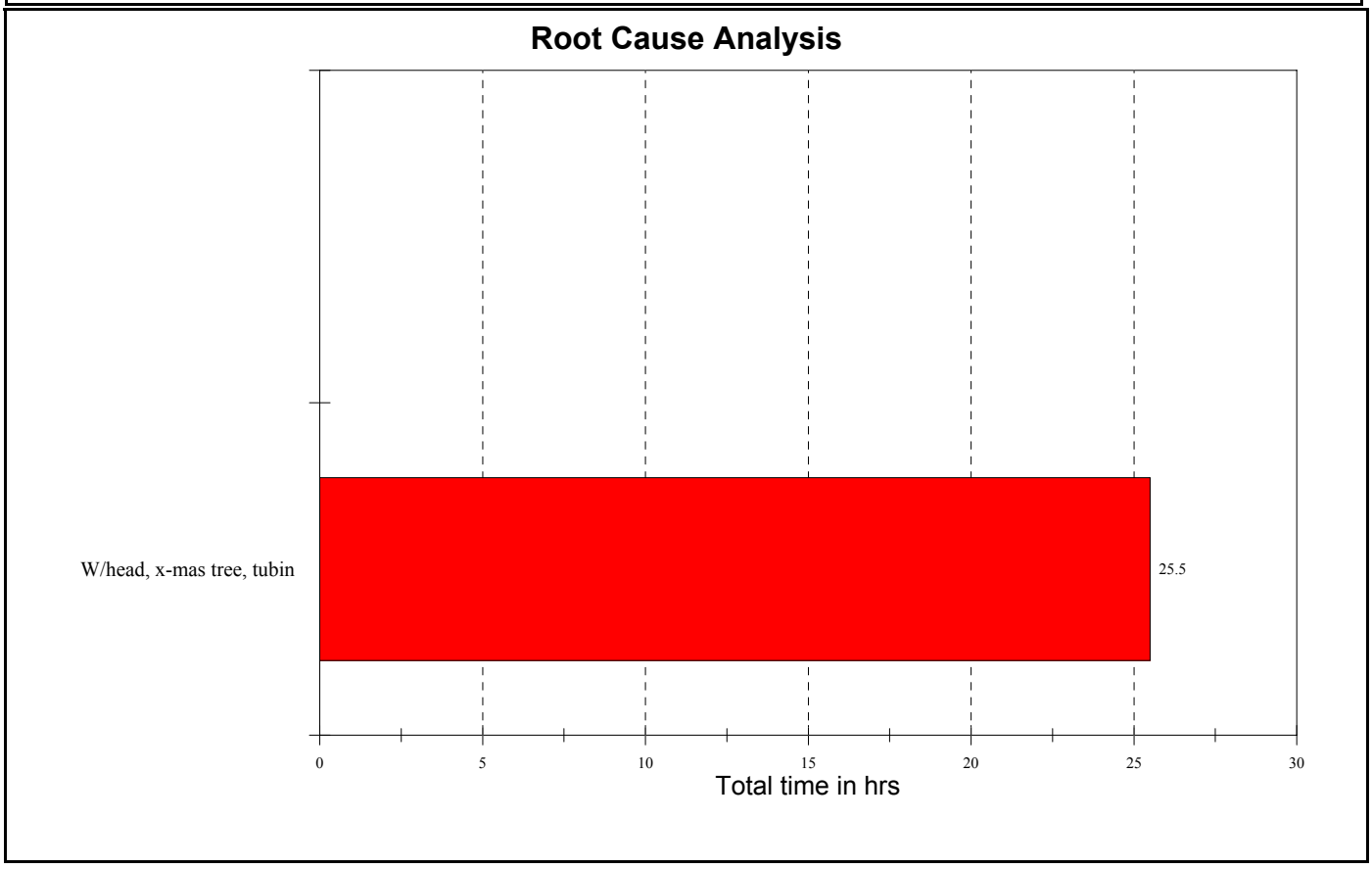
Root Cause Analysis





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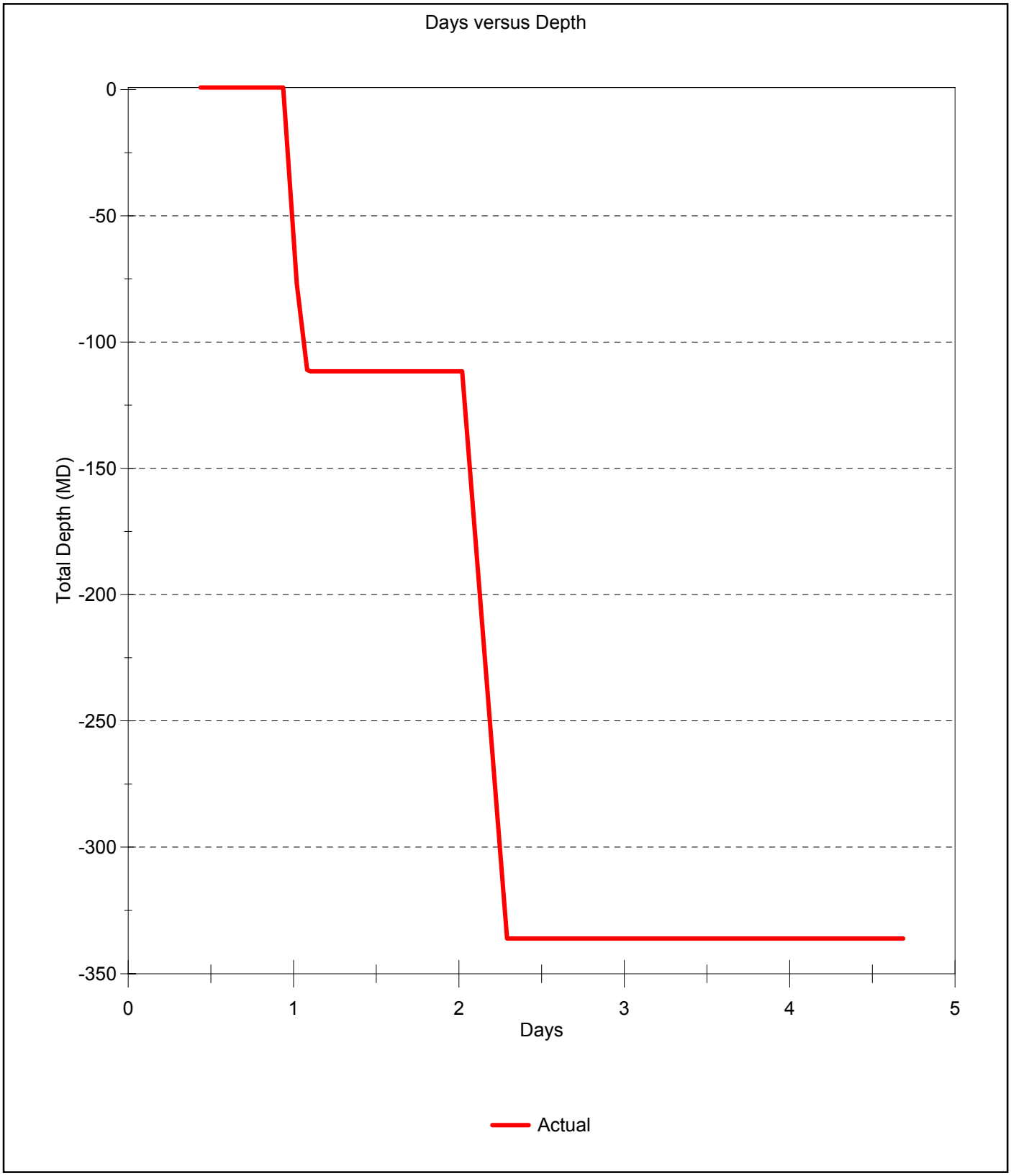
DEPTH @ 24:00 = 336.0m after 4.46 days since spud



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OMV

DAILY DRILLING REPORT # 6

DATE May 28, 2002

FROM : R.King / G.Othen
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	336.0	CUR. HOLE SIZE (")	12.25	AFE COST $	11,825,851
TVD (mBRT)	334.9	CASING OD (")	13.3/8 "	AFE BASIS :	C&S
PROGRESS (m)	0.0	SHOE TVD (mBRT)	326	DAILY COST :	$367,539.00
DAYS ON WELL	5.46	FIT (sg)	0.00	CUM COST :	$4,135,405.00
DAYS +/- CURVE	-0.10	LOT (sg)	0.00		

CURRENT OP @ 0600 Service TDS Prior tagging cement.
PLANNED OP. Make up 12 1/4" BHA, RIH, drill 3m, perform LOT, drill 12 1/4" hole section.

Summary of period 0000 to 2400 hrs

Ran BOP. Tested Xmas tree connector and casing to 2,500 psi. Tested 10 3/4" Pipe rams and BOP connector to 5,000 psi. Ran wear bushing. Made up 9 5/8" Hanger assembly. Prepared 12 1/4" Drilling assembly.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON May 28, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SC	P		BOP	00:00	01:00	1.00	336	Held JSA with on tour crew, Continued to rig up to run BOP.
SC	P		BOP	01:00	03:00	2.00	336	Function tested BOP.
SC	P		BOP	03:00	04:00	1.00	336	Installed guide lines in BOP posts.
SC	P		BOP	04:00	04:30	.50	336	Skidded rig over location.
SC	P		BOP	04:30	06:00	1.50	336	Ran BOP, tested choke and kill lines 250 / 7,000 psi 5 / 10 min.
SC	P		BOP	06:00	07:30	1.50	336	Made up slip joint and landing joint, deballasted rig 5ft.
SC	P		BOP	07:30	09:30	2.00	336	Installed storm loops, pressure tested choke and killl lines 250 / 7,000 psi. 5 / 10 min.
SC	P		BOP	09:30	10:30	1.00	336	Installed rucker tensioner lines.
SC	P		BOP	10:30	11:30	1.00	336	Landed BOP and confirmed with 50 Kips O-pull.
SC	P		BOP	11:30	12:30	1.00	336	Closed shear rams and pressure tested BOP and SST connectors and casing 250 / 2,500 psi 5 / 10 min. Lost 300 psi - Needle valve left open after testing VX ring.
SC	P		BOP	12:30	13:00	.50	336	Laid out landing joint.
SC	P		BOP	13:00	14:30	1.50	336	Held JSA. Installed diverter and rigged down BOP handling gear.
SC	P		BOP	14:30	16:30	2.00	336	ROV ran hot stab and stabbed into SST AXT Receptacle and closed needle valve. Shut shear rams and tested BOP, SST Connectors and casing to 2,500 psi for10 min - OK
SC	P		BOP	16:30	19:00	2.50	336	Made up and ran 10 3/4" test tool. Tested lower connector against 10 3/4" pipe rams. Held 5,000 psi 10 min - ok
SC	P		WH	19:00	20:00	1.00	336	Made up and ran W /bushing.
SC	P		HT	20:00	21:00	1.00	336	Picked up and service broke cement head.
SC	P		WH	21:00	22:00	1.00	336	Made up 9 5/8" Casing running tool to hanger complete with plugs.
SC	P		HT	22:00	23:00	1.00	336	Made up Hang off tool and racked in derrick.
SC	P		HBHA	23:00	24:00	1.00	336	Picked up and racked 5 stands HWDP.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON May 29, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SC	P		HBHA	00:00	00:30	.50	336	Continued to pick up HWDP and racked in derrck.
SC	P		HBHA	00:30	01:00	.50	336	Broke and laid out 17 1/2" Bit and motor.
SC	P		HBHA	01:00	02:00	1.00	336	Picked up 8" Motor. Set angle at 1.15 Deg on bent housing.
SC	P		HBHA	02:00	02:45	.75	336	Made up Bit, picked up and made up MWD tool.
SC	P		HBHA	02:45	03:15	.50	336	Loaded FEWD tool.
SC	P		HBHA	03:15	06:00	2.75	336	RIH picking up BHA.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0

DATE May 28, 2002

DAILY DRILLING REPORT # 6

BALEEN # 3

VIC/L21

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
SURFACE CASING	39.5	May 25, 2002	May 28, 2002	97.5	4.06	336.0	336.0
COMPLETION/TIE-BACK	33.0	May 26, 2002	May 27, 2002	130.5	5.44	336.0	336.0

00:00 TO 24:00 HRS ON :	**May 28, 2002**	
Comments	Recommendations	Rig Requirements
Reterminating ROV Umbilical.		

WBM Data COST TODAY : $6,743 CUM. WB MUD COST: $85,752 CUM. WBM+OBM COST: $85,752

Type :		VISCOCITY (sec/qt) : 92	API FLUID LOSS (cm3/30min) : 10	Cl : 37,000	SOLIDS (%vol) : 3.3
KCL / PHPA Glycol		PV (cps): 11	FILTER CAKE (32nds inch) : 0	K+C*1000 :	H2O (%vol) : 96.7
FROM :	Pit	YP (lb100sq.ft): 21	HTHPFL (cm3/30min) :	HARD/Ca : 280	OIL (%vol) : 0
TIME :	24:00	GEL10s/10m/100m (lb100sq.ft) : 7 11 3	HTHP CAKE (32nds inch) :	MBT (ppb) : .0	SAND : 0
WEIGHT (sg) :	1.06			PM : .1	PH : 9.5
TEMP (C) :		Fann 3/6/100 : 7 8 21		PF : .1	PHPA (ppb) : .6

BHA # 3 **Length (ft) :**

WT BLW JAR(k-lbs):	STRING WT(k-lbs) :	TRQE MAX (ft-lbs):	D.C. (1) ANN. VELOCITY (mpm): 0
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	TRQE ON (ft-lbs):	D.C. (2) ANN VELOCITY (mpm): 0
	SLK 0FF WT(k-lbs) :	TRQE OFF (ft-lbs):	H.W.D.P. ANN VELOCITY (mpm): 0
			D.P. ANN VELOCITY (mpm) : 0

BHA DESCRIPTION :

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
232	232	5.26	207.	207.7	2.4	2.58	3.3	0.7	
260	259	5.99	213.	213.9	4.9	1.01	5.7	2.1	
289	288	7.83	237.	237.8	8.3	3.51	7.9	4.6	
314	314	9.93	237.	237.3	12.2	2.46	10.1	7.9	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	1964			1964
Bentonite	SX	1662			1662
G-neat	SX	1942			1942
G+35% SiFl	SX				0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	25	25	98
Drill Water	M3	578	21		557
Heli-fuel	ltr	8130	381		7749
Base Oil	M3				0
Rig Fuel	M3	297	10		288
Brine	M3				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00		97						
2	National	6.00		97						
3	National	6.00		97						

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Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)		SHOE TVD (plan/Actual)		LOT (pl/Act)	FIT (pl/Act)	COMMENT
13.3/8 "	13.375	327.4	327.4	326.4	326.4			Tested lines to 3,000 psi. Dropped ball and displaced with 10 bbls of sea water no shear observed. Mixed and pumped 95 bbls of lead slurry and 102 bbls of tail slurry. Released dart,displaced with 111 bbls.Bumped plug 10 bbls short of calc displacment.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Well head	12.13	12.452	68.0	K-55	BTC
Non cross Coupling joint	12.21	12.452	68.0	K-55	BTC
13 3/8" Casing joints	191.23	12.452	68.0	K-55	BTC
Float joint	12.31	12.452	68.0	K-55	BTC
Intermediate joint	11.74	12.452	68.0	K-55	BTC
Shoe joint	12.60	12.452	68.0	K-55	BTC

Personnel : on Site =92

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	R.King	OMV	6
Drilling Supervisor	G.Othen	Service Company	27
Drilling Engineer	H.Heinzle	Diamond Offshore	51
Geologist	Toliday / Boothby	Catering	8

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER Howie / Czarny

SHAKER 1	4 x 84
SHAKER 2	4 x84
SHAKER 3	4 x84
SHAKER 4	4 x50
SHAKER 5	

VOLUME AVAILABLE (bbl) = 1524

ACTIVE		MIXING	
HOLE		SLUG	
RESERVE	1524	HEAVY	

LOSSES (bbl) = 0

DOWNHOLE	
SURF. + EQUIP	0.00
DUMPED	

COMMENTS

Shearing mud in progress. Mud check run at 120 F

Anchors

A 1	200	A 2	260	A 3	195	A 4	200	A 5	190
A 6	190	A7	300	A8	305				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	Locatio	219			168	1188	838	
Pacific Sentinel	Geelon	336		620	104			

Weather

VISIBILITY(nm)	12
WIND SP. (kts)	20.0
WIND DIR (deg)	260
PRES.(mbars)	1021
AIR TEMP (C)	14.0

Rig / Sea Data

RIS.TENS (klbs)	240
VDL (mt)	2,261
WAVES (m)	1.2
SWELL (m)	4.3

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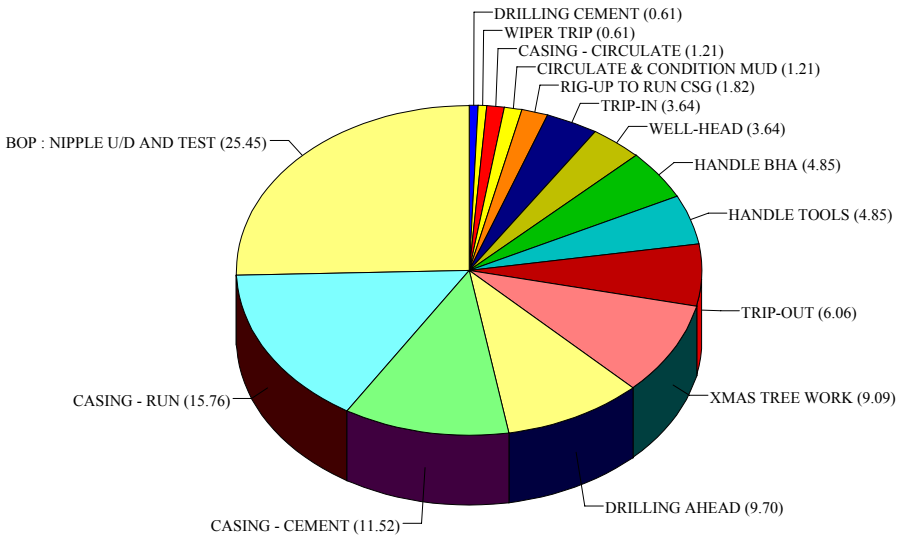
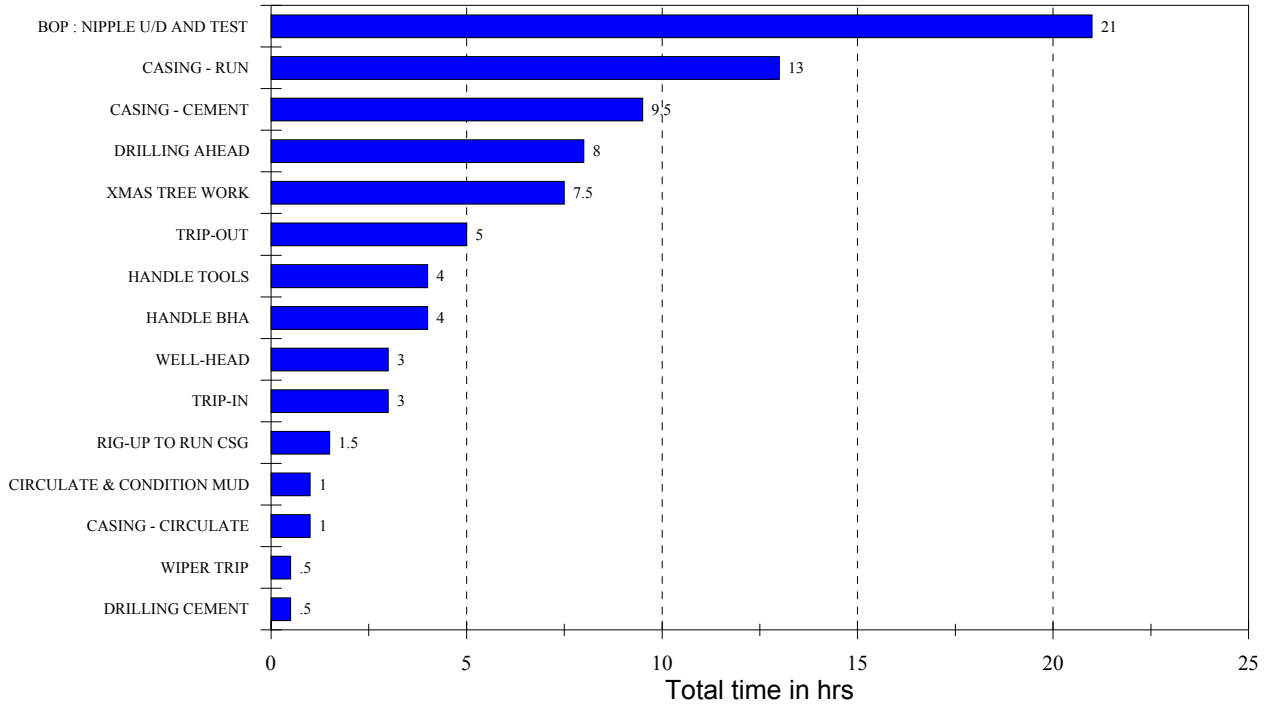
Total move time (hrs)	22.50	Total prod. time since spud (hrs) :	82.50
Total time on well excluding move (hrs)	108.00	Total troub. time since spud (hrs)	25.50
		% Trouble time	23.61

Productive Time by Op.



Productive time by Operation



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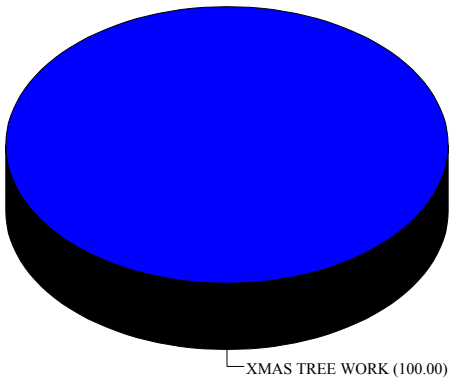
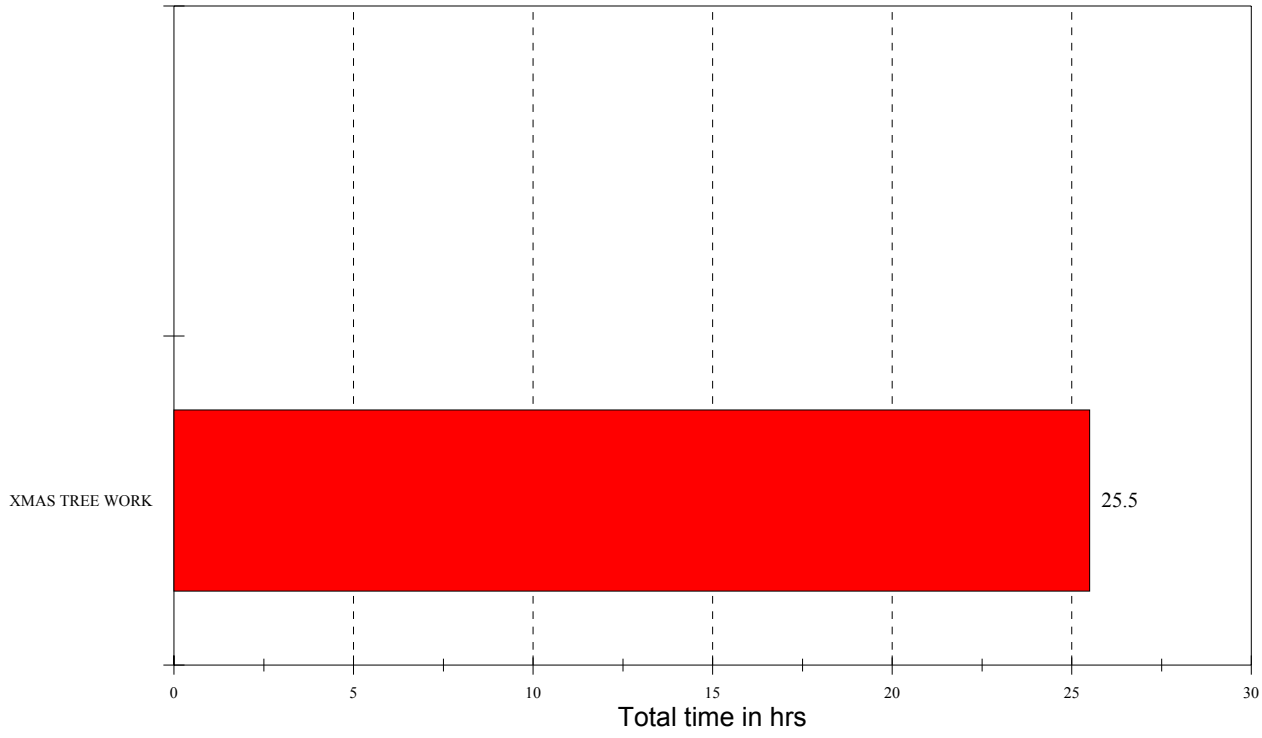
Trouble Time by Op.



NPT by Operation



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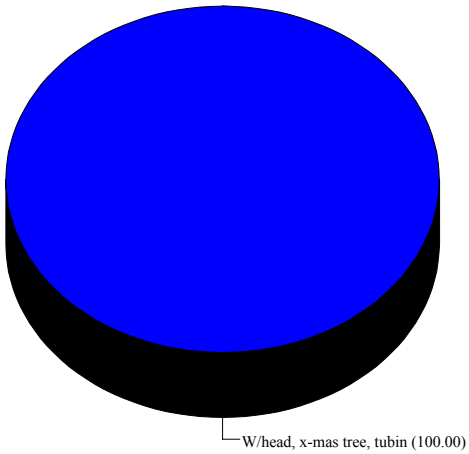
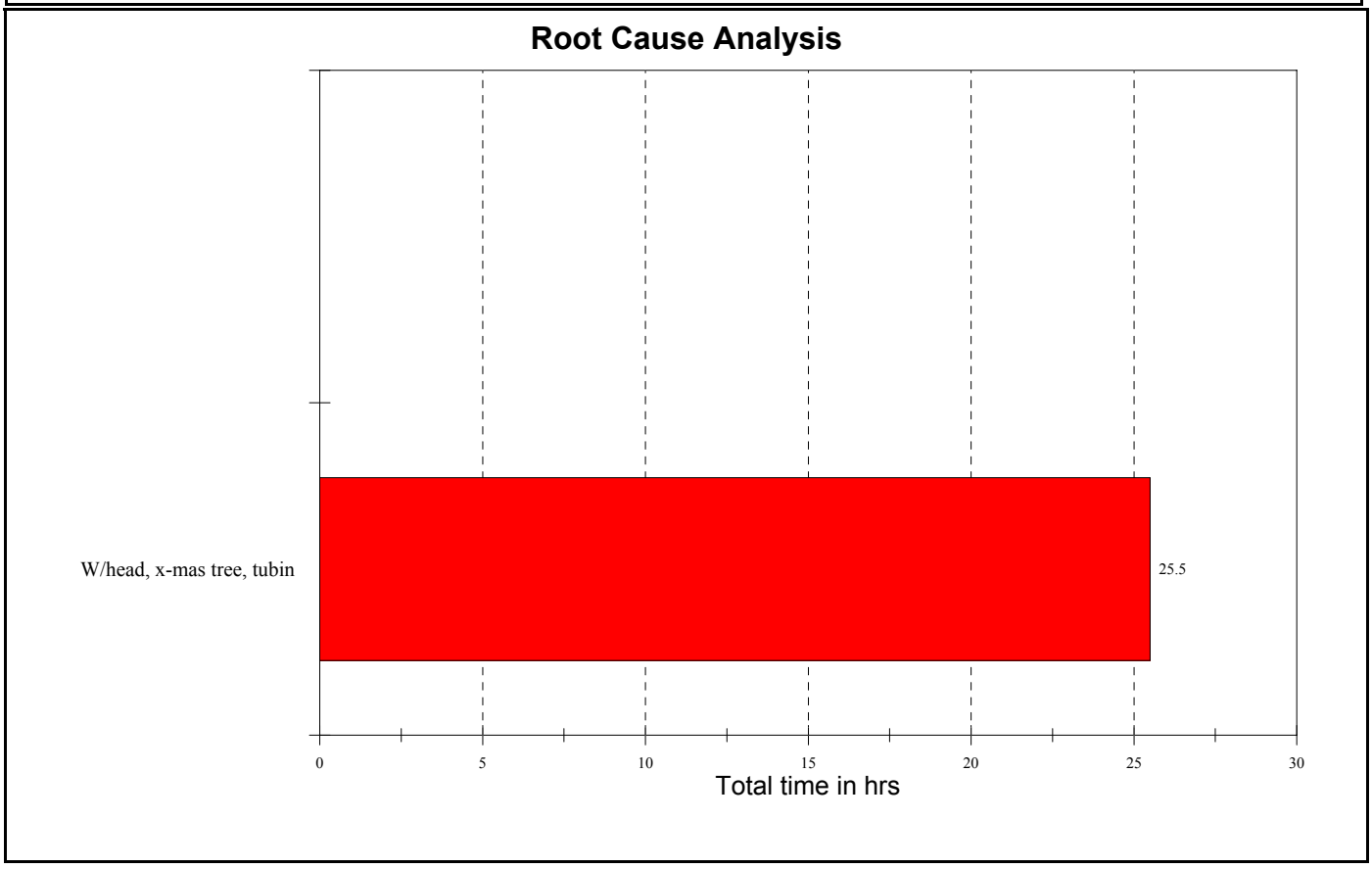
Root Cause Analysis





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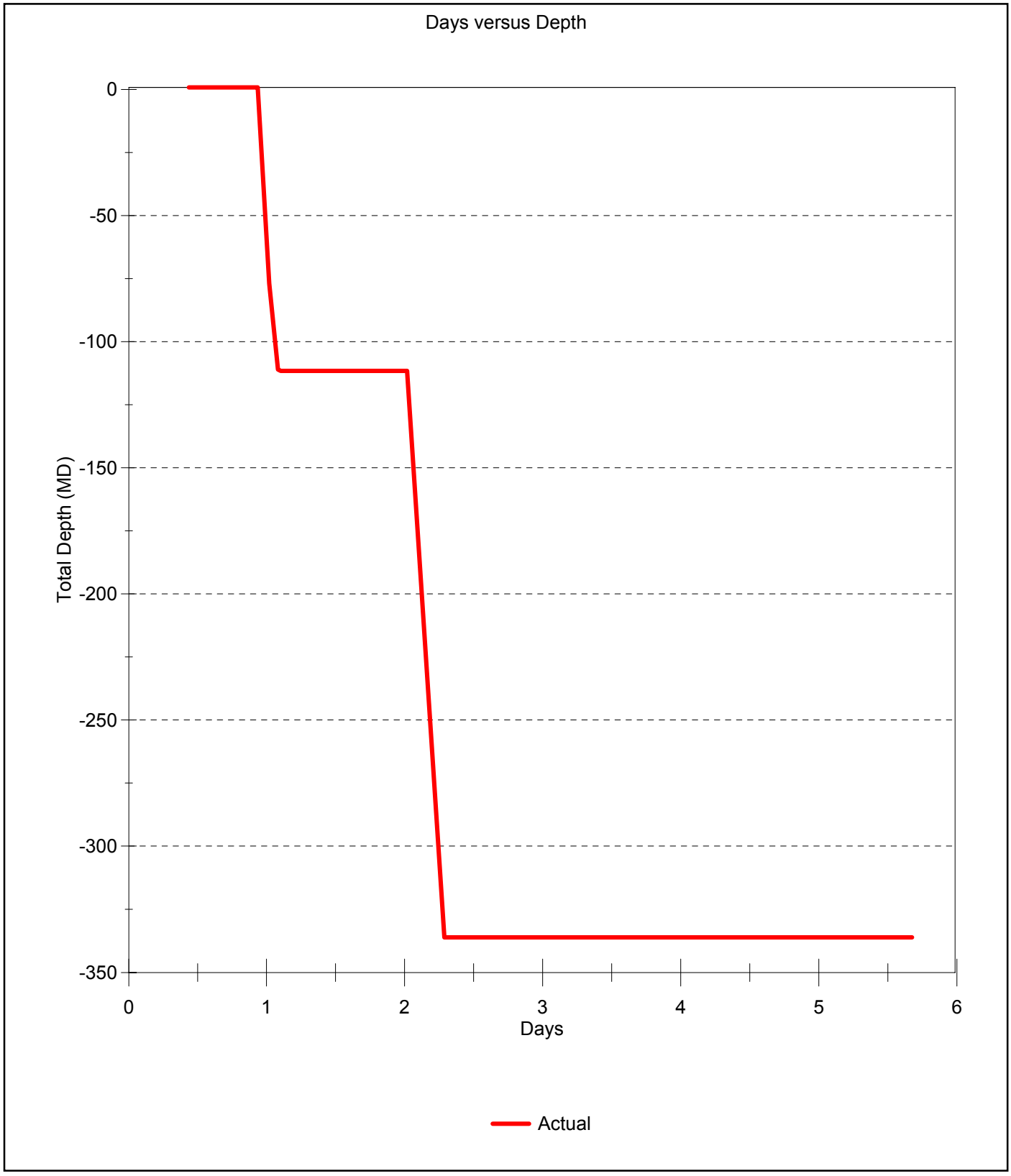
DEPTH @ 24:00 = 336.0m after 5.46 days since spud



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OMV

DAILY DRILLING REPORT # 7

DATE May 29, 2002

FROM : R.King / G.Othen
TO : C.Allport / S.Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	542.0	CUR. HOLE SIZE (")	12.25	AFE COST $	11,825,851
TVD (mBRT)	519.3	CASING OD (")	13.3/8 "	AFE BASIS :	C&S
PROGRESS (m)	206.0	SHOE TVD (mBRT)	326	DAILY COST :	$385,163.00
DAYS ON WELL	6.46	FIT (sg)	1.74	CUM COST :	$4,520,568.00
DAYS +/- CURVE	-0.30	LOT (sg)	0.00		

CURRENT OP @ 0600 Drilling 12 1/4" Hole.
PLANNED OP. Continue Drilling to Casing point.

Summary of period 0000 to 2400 hrs

Picked up and RIH with 12 1/4" BHA. Drilled shoe track and preformed F.I.T Result 1.74 EMW. Drilled 12 1/4" hole F /- 336 mts to 458 mts. Drilling assembly not building sufficient angle. POOH changed motor degree to 1.5 and rearranged HWDP below jars. Drilled F /- 458 mts to 542 mts. (519.33 TVD)

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON May 29, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SC	P		HBHA	00:00	00:30	.50	336	Continued to pick up HWDP and racked in derrick.
SC	P		HBHA	00:30	01:00	.50	336	Broke and laid out 17 1/2" Bit and motor.
SC	P		HBHA	01:00	02:00	1.00	336	Picked up 8" Motor. Set angle at 1.15 Deg on bent housing.
SC	P		HBHA	02:00	02:45	.75	336	Made up 12 1/4" Bit, picked up and made up FEWD tool.
SC	P		HBHA	02:45	03:15	.50	336	Set up and tested FEWD tool.
SC	P		HBHA	03:15	06:00	2.75	336	RIH picking up 12 1/4" BHA. Installed diverter
SC	P		RS	06:00	06:30	.50	336	Serviced TDS.
SC	P		DC	06:30	09:15	2.75	336	Tagged cement @ 298.4 mts. Drilled out shoe track and rat hole to 336 mts. Firm cement.
IH1	P		DA	09:15	09:30	.25	340	Drilled 12 1/4" Hole F /- 336 mts to 340 mts.
IH1	P		CMD	09:30	10:30	1.00	340	Displaced well to KCL / PHPA mud system. Mud weight 1. 06 SG.
IH1	P		LOT	10:30	11:00	.50	340	Performed F.I.T. with 1.06 SG Mud. Pumped 1.95 bbls @ .3 bbls / min. Pressured up to 316 psi EMW of 1.74 SG. Recovered 1.95 bbls.
IH1	P		DA	11:00	15:30	4.50	458	Drilled 12 1/4" Hole F /- 340 mts to 458 mts. Drilling assembly not building at sufficient rate.
IH1	P		TO	15:30	17:00	1.50	458	Circulated bottoms up, Flow check, POOH F /- 458 mts no drag, hole in good condition.
IH1	P		TI	17:00	19:00	2.00	430	Changed motor angle to 1.5 Deg. RIH to 430 mts. (Rearranged BHA)
IH1	P		DA	19:00	21:30	2.50	514	Circulated to bottom F /- 430 mts to 458 mts. Drilled F /- 458 mts to 514 mts. Took survey, Build rate increased to 7.73 Deg.
IH1	P		RW	21:30	22:30	1.00	514	POOH F /- 514 mts to 443 mts. Reamed section F /- 443 mts to 488 m.
IH1	P		DA	22:30	24:00	1.50	542	Drilled 12 1/4" hole F /- 514 mts to 542 mts. (519.33 mTVD)

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON May 30, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
IH1	P		DA	00:00	06:00	6.00	632	Drilled F /- 542 mts to 632 mts. (582m TVD)

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	33.0	May 26, 2002	May 27, 2002	139.8	5.82	336.0	336.0
INTERMEDIATE HOLE (1)	14.8	May 29, 2002	May 29, 2002	154.5	6.44	340.0	542.0

DATE May 29, 2002

DAILY DRILLING REPORT # 7

BALEEN # 3

VIC/L21

WBM Data

COST TODAY : $19,863 CUM. WB MUD COST: $105,614 CUM. WBM+OBM COST: $105,614

Type :		VISCOCITY (sec/qt) :	54	API FLUID LOSS (cm3/30min) :	6	Cl :	36,000	SOLIDS (%vol) :	3.4
KCL / PHPA Glycol		PV (cps):	12	FILTER CAKE (32nds inch) :	1	K+C*1000 :	29000	H2O (%vol) :	96.6
FROM :	FL	YP (lb100sq.ft):	24	HTHPFL (cm3/30min) :		HARD/Ca :	400	OIL (%vol) :	0
TIME :	24:00	GEL10s/10m/100m (lb100sq.ft) :	7 11 3	HTHP CAKE (32nds inch) :		MBT (ppb) :	1.0	SAND :	0
WEIGHT (sg) :	1.06					PM :	.2	PH :	9.5
TEMP (C) :	30	Fann 3/6/100 :	7 9 24			PF :	.2	PHPA (ppb) :	1.0

COMMENT: Add PHPA premix to active. Adding Duotec to bring 6rpm readings up.

Bit Data for Bit # 3 IADC

SIZE (") :	**12.50**			**Wear**	I	O1	D	L	B	G	O2	R
MANUFACTURER :	RE	AVE WOB (k-lbs) :	6	**NOZZLES**								
TYPE :	MHT-13 GC	AVE RPM :	200	3 x15								
SERIAL # :	NL-5006	FLOW (gpm) :	800	1 x24								
DEPTH IN (m RT) :	336	PUMP PRESS. (psi):	1,750	x								
DEPTH OUT (m RT) :		HSI (hp/sqi) :	0.253	x								

Drilled over the last 24 hrs		Calculated over the bit run	
METERAGE (m) :	122	CUM.METERAGE (m)	122
ON BOTTOM HRS :	5.2	CUM. ON BOT. HRS :	5.2
IADC DRILL. HRS :	8.8	CUM.IADC DRILL HRS:	8.8
TOTAL REVS :	62,400	CUM.TOT. REVS :	62,400
ROP (m/hr):	13.9	ROP (m/hr):	13.9

BHA # 4 Length (ft) :143.7

WT BLW JAR(k-lbs):	27	STRING WT(k-lbs) :	50	TRQE MAX (ft-lbs):	4,000	D.C. (1) ANN. VELOCITY (mpm):	194
BHA WT(k-lbs) :	30	PICK UP WT(k-lbs) :	60	TRQE ON (ft-lbs):	3,000	D.C. (2) ANN VELOCITY (mpm):	0
		SLK 0FF WT(k-lbs) :	45	TRQE OFF (ft-lbs):	2,000	H.W.D.P. ANN VELOCITY (mpm):	137
						D.P. ANN VELOCITY (mpm) :	137

BHA DESCRIPTION : 12-1/4" Bit,8"Motor, FEWD,F-sub,X/O,9xHWDP,Jars,3xHWDP,30x5"DP,24xHWDP.

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT
RLL Tool	9.8	DM-1515 HGVR	FEWD Tool
MBT Tool	9.8	DMO-1535 KF8	FEWD Tool
JARS	9.8	DAH-2122	

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
440	435	22.86	238.	238.2	45.8	3.68	27.4	36.7	
467	459	29.90	237.	237.4	57.7	7.87	33.8	46.8	
494	482	34.30	236.	236.4	72.3	4.84	41.7	59.0	
523	505	38.61	235.	235.9	89.1	4.57	51.1	73.0	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	1964	100		1864
Bentonite	SX	1662			1662
G-neat	SX	1942			1942
G+35% SiFl	SX				0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	25	25	98
Drill Water	M3	557	70		487
Heli-fuel	ltr	7749	535		7214
Base Oil	M3				0
Rig Fuel	M3	288	17	106	377
Brine	M3				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00	62	97	800	1750	30	70	403	8.8
2	National	6.00	62	97	800	1750	40	100	403	8.8
3	National	6.00	62	97	800	1750	50	120	403	8.8

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DATE May 29, 2002

DAILY DRILLING REPORT # 7

BALEEN # 3

VIC/L21

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
13.3/8 "	13.375	327.4 327.4	326.4 326.4	1.70	1.74	Tested lines to 3,000 psi. Dropped ball and displaced with 10 bbls of sea water no shear observed. Mixed and pumped 95 bbls of lead slurry and 102 bbls of tail slurry. Released dart,displaced with 111 bbls.Bumped plug 10 bbls short of calc displacment.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Well head	12.13	12.452	68.0	K-55	BTC
Non cross Coupling joint	12.21	12.452	68.0	K-55	BTC
13 3/8" Casing joints	191.23	12.452	68.0	K-55	BTC
Float joint	12.31	12.452	68.0	K-55	BTC
Intermediate joint	11.74	12.452	68.0	K-55	BTC
Shoe joint	12.60	12.452	68.0	K-55	BTC

Personnel : on Site =85

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	R.King	OMV	5
Drilling Supervisor	G.Othen	Service Company	22
Drilling Engineer	H.Heinzle	Diamond Offshore	50
Geologist	Toliday / Boothby	Catering	8

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER Howie / Czarny

SHAKER 1	4 x 84
SHAKER 2	4 x 84
SHAKER 3	4 x 84
SHAKER 4	4 x 120
SHAKER 5	

VOLUME AVAILABLE (bbl) = 1483

ACTIVE	716	MIXING	
HOLE	302	SLUG	
RESERVE	465	HEAVY	

LOSSES (bbl) = 0

DOWNHOLE	
SURF. + EQUIP	0.00
DUMPED	

COMMENTS

Drilled cement with sea water, Hi vis sweeps as required.

Anchors

A 1	220	A 2	260	A 3	205	A 4	205	A 5	185
A 6	200	A7	305	A8	325				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	Locatio	219	0	0	168	1188	838	
Pacific Sentinel	On Rou	221	0	620	101	0	0	

Weather

VISIBILITY(nm)	12
WIND SP. (kts)	10.0
WIND DIR (deg)	160
PRES.(mbars)	1021
AIR TEMP (C)	14.0

Rig / Sea Data

RIS.TENS (klbs)	216
VDL (mt)	2,071
WAVES (m)	0.9
SWELL (m)	4.3

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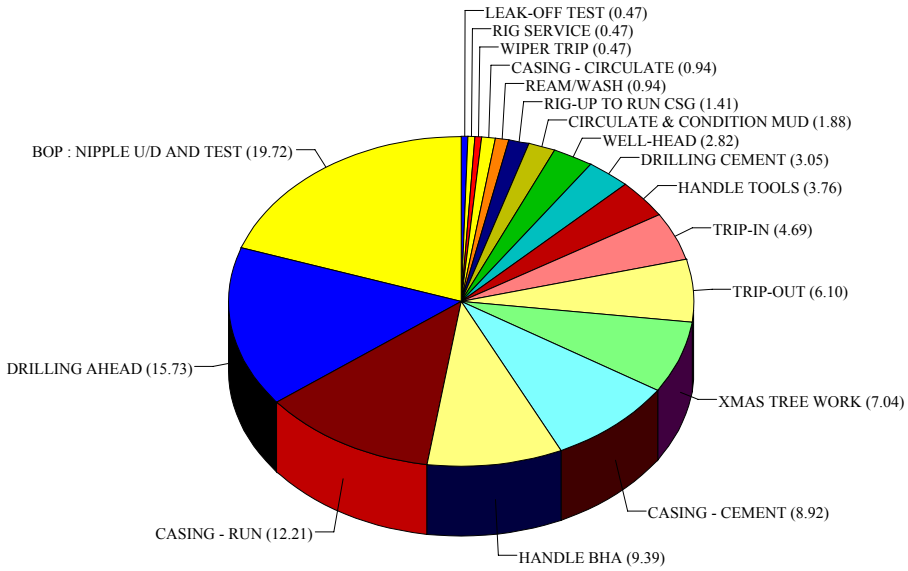
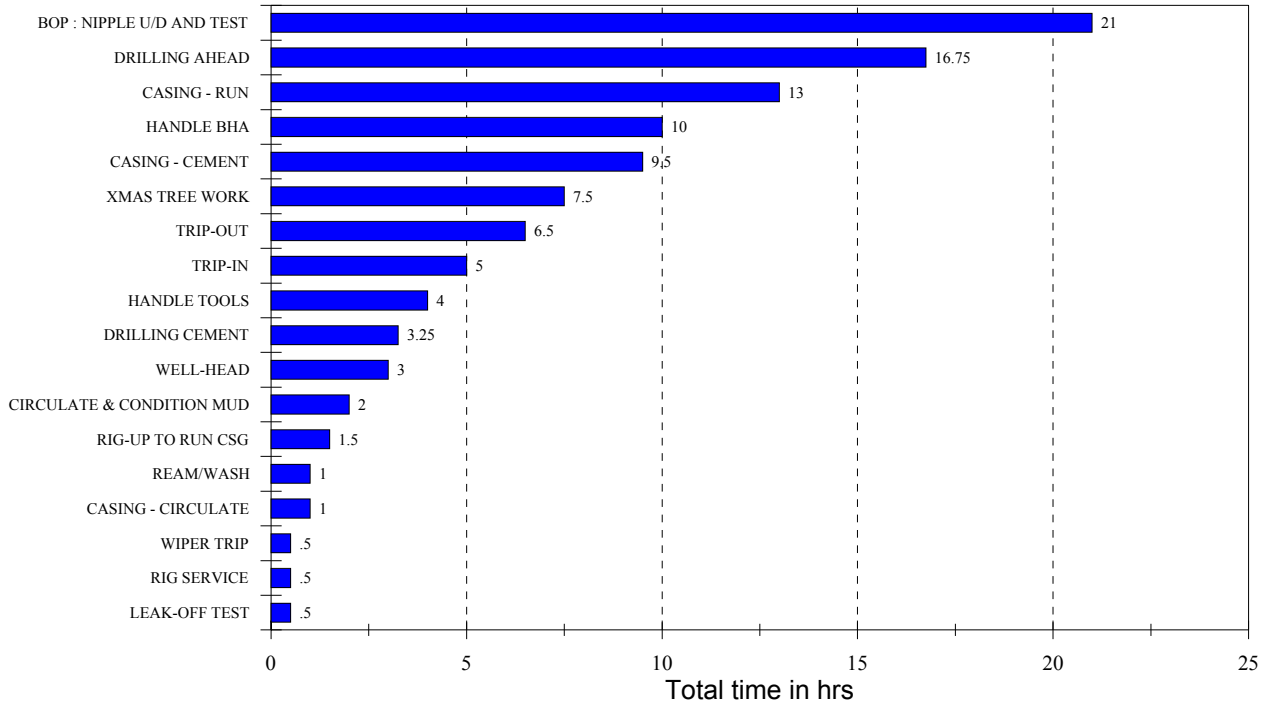
Total move time (hrs)	22.50	Total prod. time since spud (hrs) :	106.50
Total time on well excluding move (hrs)	132.00	Total troub. time since spud (hrs)	25.50
		% Trouble time	19.32

Productive Time by Op.



Productive time by Operation



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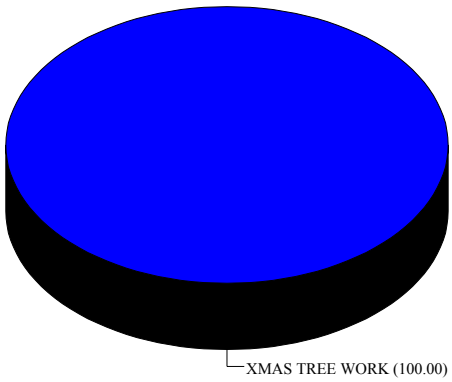
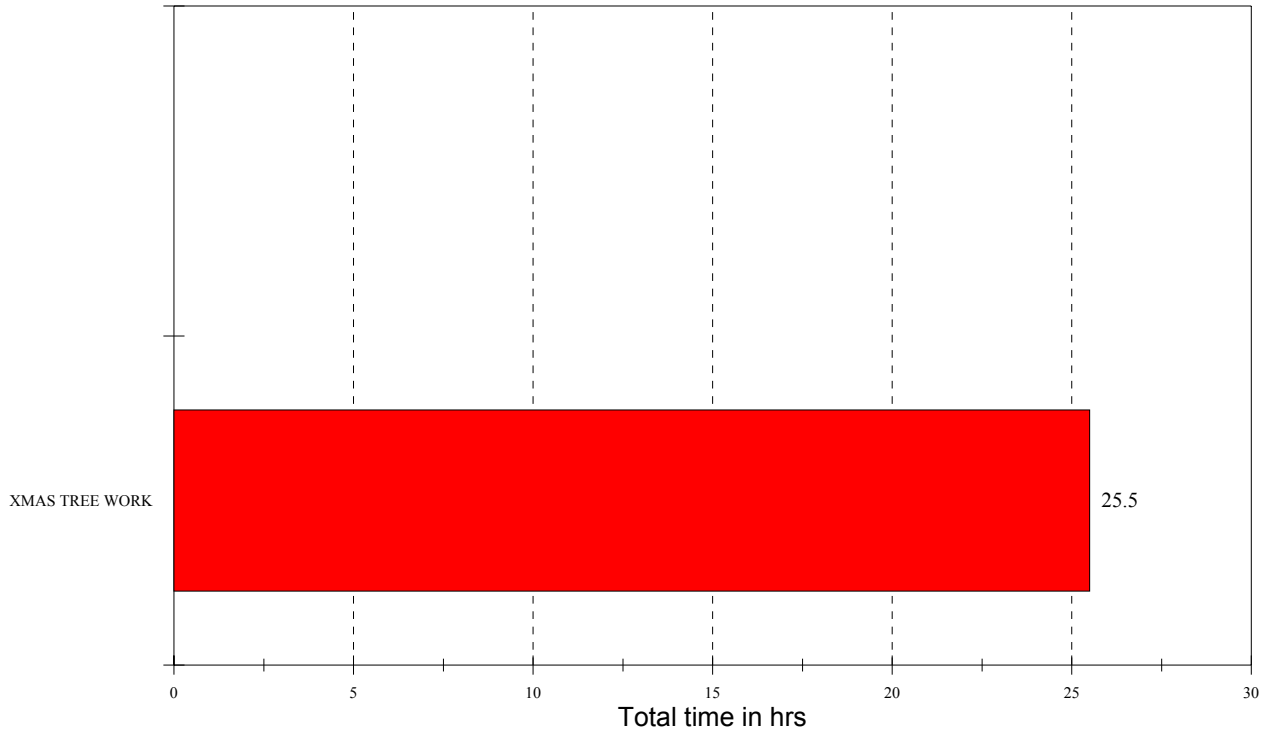
Trouble Time by Op.



NPT by Operation



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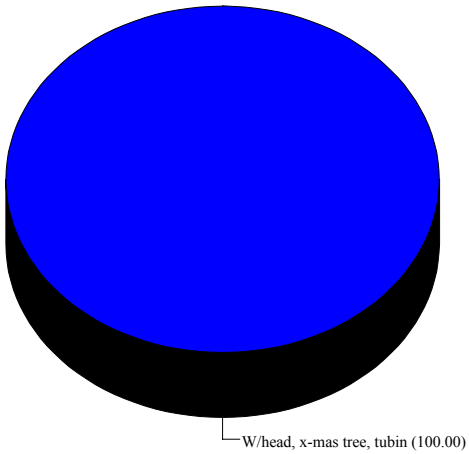
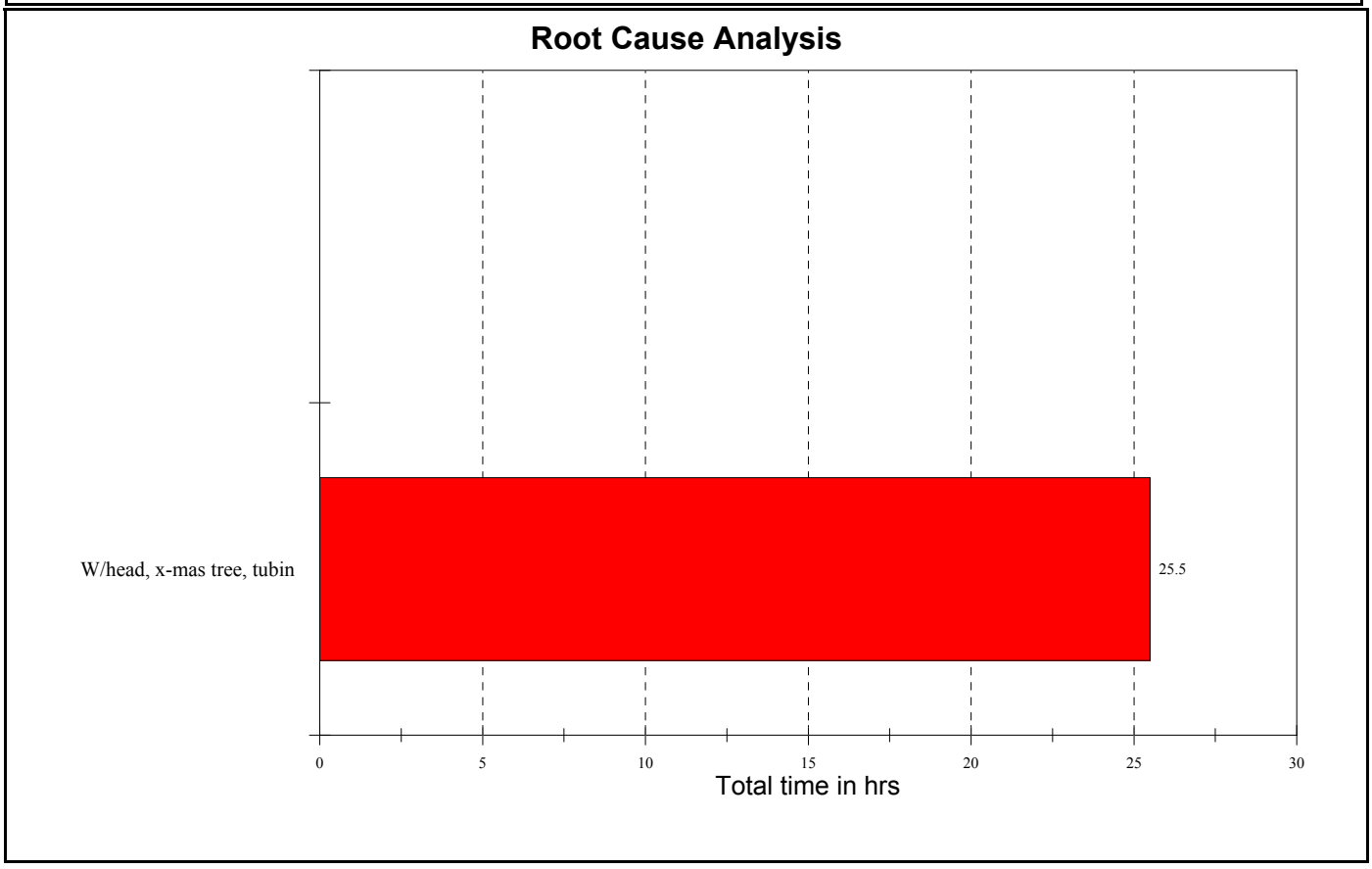
Root Cause Analysis





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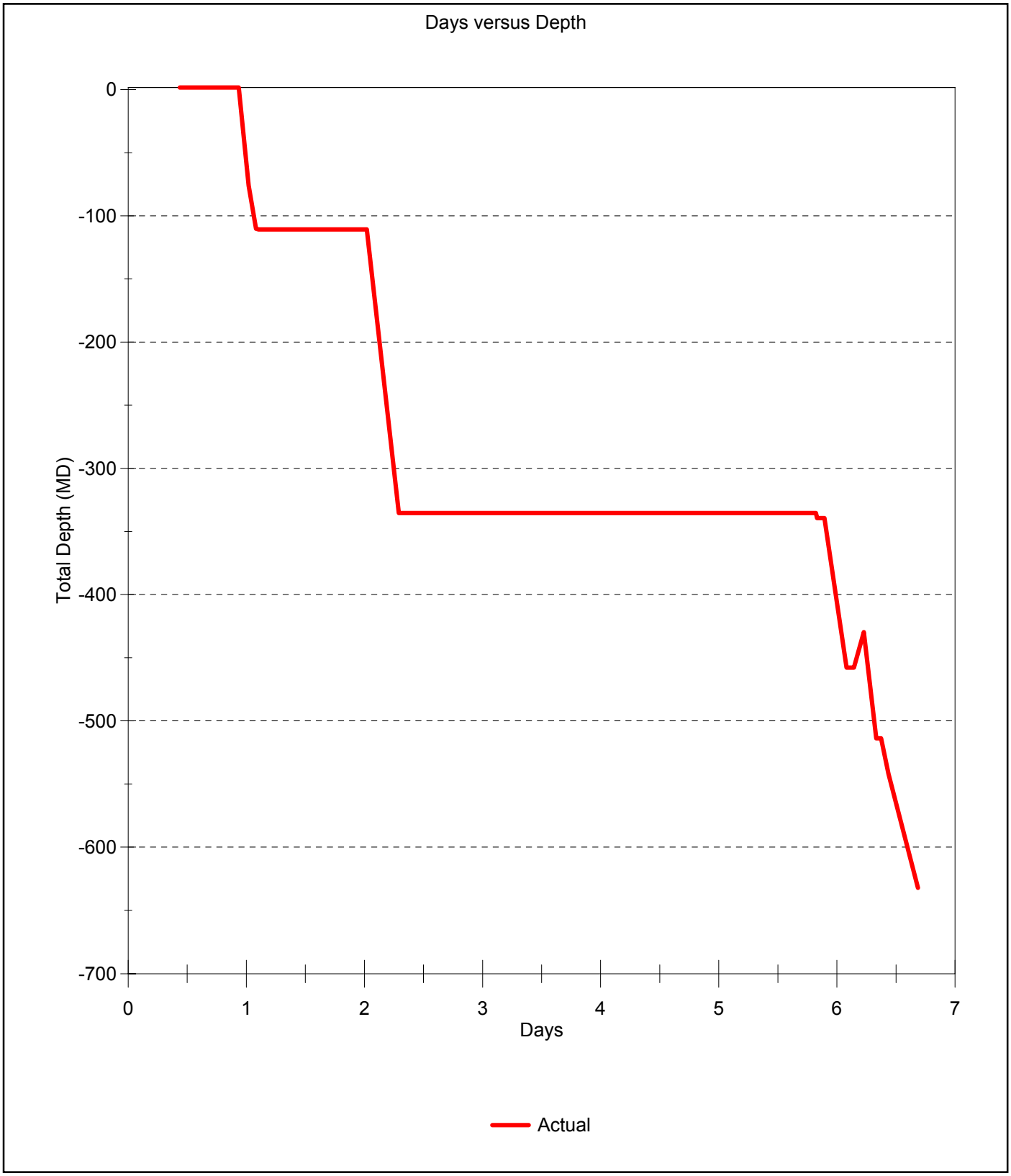
DEPTH @ 24:00 = 542.0m after 6.46 days since spud



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OMV

DAILY DRILLING REPORT # 8

DATE May 30, 2002

FROM : R.King. / G.Othen
TO : C.Allport / S.Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	871.0	CUR. HOLE SIZE (")	12.25	AFE COST $	11,825,851
TVD (mBRT)	680.6	CASING OD (")	13.3/8 "	AFE BASIS :	C&S
PROGRESS (m)	329.0	SHOE TVD (mBRT)	326	DAILY COST :	$347,580.00
DAYS ON WELL	7.46	FIT (sg)	1.74	CUM COST :	$4,868,148.00
DAYS +/- CURVE	0.20	LOT (sg)	0.00		

CURRENT OP @ 0600 Circulating hole clean.

PLANNED OP. Wiper trip, POOH Recover W-Bushing, Run 9 5/8" Casing.

Summary of period 0000 to 2400 hrs

Drilled from 542 m to 871 m. Increased mud weight to 1.15 SG. Wiper trip.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON May 30, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
IH1	P		DA	00:00	18:00	18.00	855	Drilled F /- 542 m to 855 m.
IH1	U		CMD	18:00	19:00	1.00	855	9% Gas in well circulated out.
IH1	P		DA	19:00	19:30	.50	871	Drilled F /- 855 m to 871 m. TVD 680.57 m (21% Gas in well bore) Confirmed Reservoir depth.
IH1	U		CMD	19:30	21:00	1.50	871	Circulated gas out of well bore, max 21 %.
IH1	U		CMD	21:00	22:00	1.00	871	Increased mud weight to 1.15 SG, circulated system. (Record SCRs)
IH1	P		TO	22:00	23:00	1.00	871	POOH F /- 871m to 800 m. No drag hole good.
IH1	P		TO	23:00	24:00	1.00	871	Flow checked. POOH F /- 800 m to 745 m. From 745 m to 600 m, Hole swabbing and constant drag 30 - 40 Kips. Pumped out hole drag 10 - 15 Kips.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON May 31, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
IH1	P		RO	00:00	02:15	2.25	871	Continued pumping out F /- 600m to 450m (Drag 10-15 Kips) Pulled out F /- 450m to 327m.
IH1	P		RS	02:15	02:45	.50	871	Serviced TDS.
IH1	P		TI	02:45	05:00	2.25	871	RIH F /- 327m to726m. Tight @726m (Washed F/- 726m to 740 m) Continued RIH F/- 740m to 762m. Tight @762m (Washed F/- 762m to 800m) Continued RIH F/- 800 m to 871m. No fill on bottom.
IH1	P		CMD	05:00	05:15	.25	871	Spotted 50 bbls Hi-vis on bottom.
IH1	P		TO	05:15	05:30	.25	871	POOH F/- 871m to 800m. No Drag Hole good.
IH1	P			05:30	06:30	1.00	871	Circulated bottoms up at 800m.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	33.0	May 26, 2002	May 27, 2002	139.8	5.82	336.0	336.0
INTERMEDIATE HOLE (1)	38.8	May 29, 2002	May 30, 2002	178.5	7.44	340.0	871.0

WBM Data COST TODAY : $6,461 CUM. WB MUD COST: $112,075 CUM. WBM+OBM COST: $112,075

Type : KCL / PHPA Glycol

FROM :	FL
TIME :	24:00
WEIGHT (sg) :	1.16
TEMP (C) :	30

VISCOCITY (sec/qt) :	67		
PV (cps):	18		
YP (lb100sq.ft):	39		
GEL10s/10m/100m (lb100sq.ft) :	12	18	3
Fann 3/6/100 :	12	14	38

API FLUID LOSS (cm3/30min) :	5
FILTER CAKE (32nds inch) :	1
HTHPFL (cm3/30min) :	
HTHP CAKE (32nds inch) :	

Cl :	38,000
K+C*1000 :	29000
HARD/Ca :	720
MBT (ppb) :	5.0
PM :	.1
PF :	.1

SOLIDS (%vol) :	7
H2O (%vol) :	93.0
OIL (%vol) :	0
SAND :	TR
PH :	9.5
PHPA (ppb) :	.8

DATE May 30, 2002

DAILY DRILLING REPORT # 8

BALEEN # 3

VIC/L21

Bit Data for Bit # 3 IADC

SIZE (") :	**12.50**				
MANUFACTURER :	RE	AVE WOB (k-lbs) :	15	NOZZLES	
TYPE :	MHT-13 GC	AVE RPM :	207	3 x 15	
SERIAL # :	NL-5006	FLOW (gpm) :	834	1 x 24	
DEPTH IN (m RT) :	336	PUMP PRESS. (psi):	2,030	x	
DEPTH OUT (m RT) :	871	HSI (hp/sqi) :	2.662	x	

Wear

I	O1	D	L	B	G	O2	R

Drilled over the last 24 hrs		Calculated over the bit run	
METERAGE (m) :	535	CUM.METERAGE (m)	657
ON BOTTOM HRS :	15.9	CUM. ON BOT. HRS :	21.1
IADC DRILL. HRS :	22.5	CUM.IADC DRILL HRS:	31.3
TOTAL REVS :	197,478	CUM.TOT. REVS :	262,062
ROP (m/hr):	23.8	ROP (m/hr):	21.0

BHA # Length (ft) :

WT BLW JAR(k-lbs):	STRING WT(k-lbs) :	TRQE MAX (ft-lbs):	D.C. (1) ANN. VELOCITY (mpm): 0
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	TRQE ON (ft-lbs):	D.C. (2) ANN VELOCITY (mpm): 0
	SLK 0FF WT(k-lbs) :	TRQE OFF (ft-lbs):	H.W.D.P. ANN VELOCITY (mpm): 0
			D.P. ANN VELOCITY (mpm) : 0

BHA DESCRIPTION :

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

BHA # 4 Length (ft) :143.7

WT BLW JAR(k-lbs):	27	STRING WT(k-lbs) :	50	TRQE MAX (ft-lbs):	4,000	D.C. (1) ANN. VELOCITY (mpm): 217
BHA WT(k-lbs) :	30	PICK UP WT(k-lbs) :	60	TRQE ON (ft-lbs):	3,000	D.C. (2) ANN VELOCITY (mpm): 0
		SLK 0FF WT(k-lbs) :	45	TRQE OFF (ft-lbs):	2,000	H.W.D.P. ANN VELOCITY (mpm): 149
						D.P. ANN VELOCITY (mpm) : 149

BHA DESCRIPTION : 12-1/4" Bit,8"Motor, FEWD,F-sub,X/O,9xHWDP,Jars,3xHWDP,30x5"DP,24xHWDP.

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT
RLL Tool	32.8	DM-1515 HGVR	FEWD Tool
MBT Tool	32.8	DMO-1535 KF8	FEWD Tool
JARS	32.8	DAH-2122	

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
751	647	65.86	235.	235.7	265.2	5.40	147.7	220.3	
780	658	70.04	235.	235.7	292.2	4.30	162.9	242.6	
808	667	74.32	234.	234.7	318.1	4.84	177.7	263.9	
838	674	76.30	234.	234.2	347.7	2.00	194.9	287.9	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	1864			1864
Bentonite	SX	1662			1662
G-neat	SX	1942			1942
G+35% SiFl	SX				0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	22	22	98
Drill Water	M3	487	20		467
Heli-fuel	ltr	7214			7214
Base Oil	M3				0
Rig Fuel	M3	377	18		359
Brine	M3				0

Pump Data

	Pump Data - last 24 hrs						Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00	65	97	834	2030	30	150	800	9.6
2	National	6.00	65	97	834	2030	40	200	800	9.6
3	National	6.00	65	97	834	2030	50	250	800	9.6

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DATE May 30, 2002

DAILY DRILLING REPORT # 8

BALEEN # 3

VIC/L21

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
13.3/8 "	13.375	327.4 327.4	326.4 326.4	1.70	1.74	Tested lines to 3,000 psi. Dropped ball and displaced with 10 bbls of sea water no shear observed. Mixed and pumped 95 bbls of lead slurry and 102 bbls of tail slurry. Released dart,displaced with 111 bbls.Bumped plug 10 bbls short of calc displacment.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Well head	12.13	12.452	68.0	K-55	BTC
Non cross Coupling joint	12.21	12.452	68.0	K-55	BTC
13 3/8" Casing joints	191.23	12.452	68.0	K-55	BTC
Float joint	12.31	12.452	68.0	K-55	BTC
Intermediate joint	11.74	12.452	68.0	K-55	BTC
Shoe joint	12.60	12.452	68.0	K-55	BTC

Personnel : on Site =85

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	R.King	OMV	5
Drilling Supervisor	G.Othen	Service Company	22
Drilling Engineer	H.Heinzle	Diamond Offshore	50
Geologist	Toliday / Boothby	Catering	8

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER Howie / Czarny

SHAKER 1	4 x 84
SHAKER 2	4 x 84
SHAKER 3	4 x120
SHAKER 4	4 x84
SHAKER 5	

VOLUME AVAILABLE (bbl) =	1397	
ACTIVE	579	MIXING
HOLE	453	SLUG
RESERVE	365	HEAVY

LOSSES (bbl) =	122
DOWNHOLE	
SURF. + EQUIP	122.00
DUMPED	

COMMENTS

Weighted up system to 1.15 SG

Anchors

A 1	215	A 2	250	A 3	210	A 4	200	A 5	180
A 6	185	A7	290	A8	305				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	Dept Ri	435	0	600	196	1188	838	
Pacific Sentinel	At Loca	215		620	98			

Weather

VISIBILITY(nm)	14
WIND SP. (kts)	11.0
WIND DIR (deg)	250
PRES.(mbars)	1019
AIR TEMP (C)	14.0

Rig / Sea Data

RIS.TENS (klbs)	216
VDL (mt)	1,880
WAVES (m)	0.4
SWELL (m)	2.1

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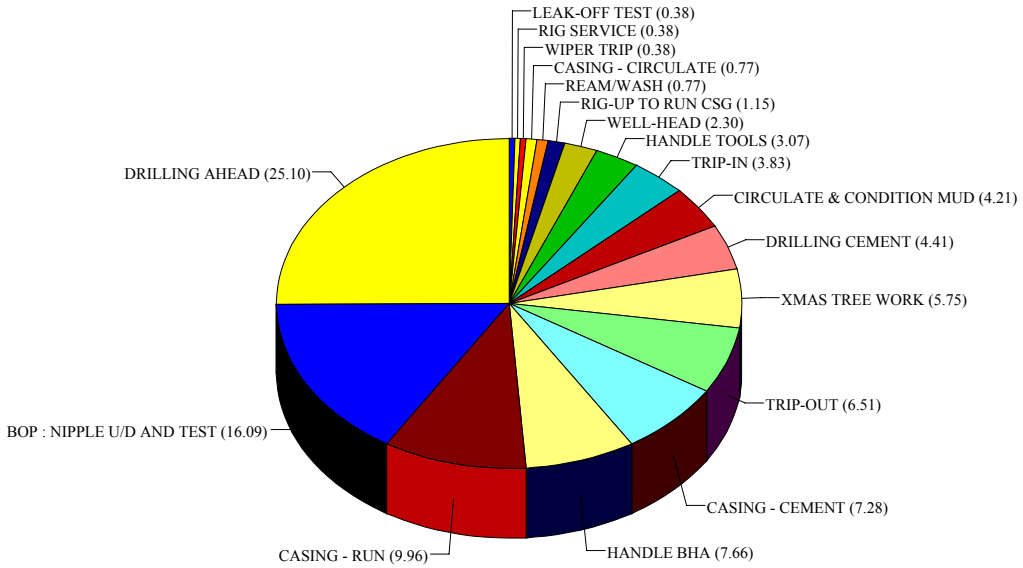
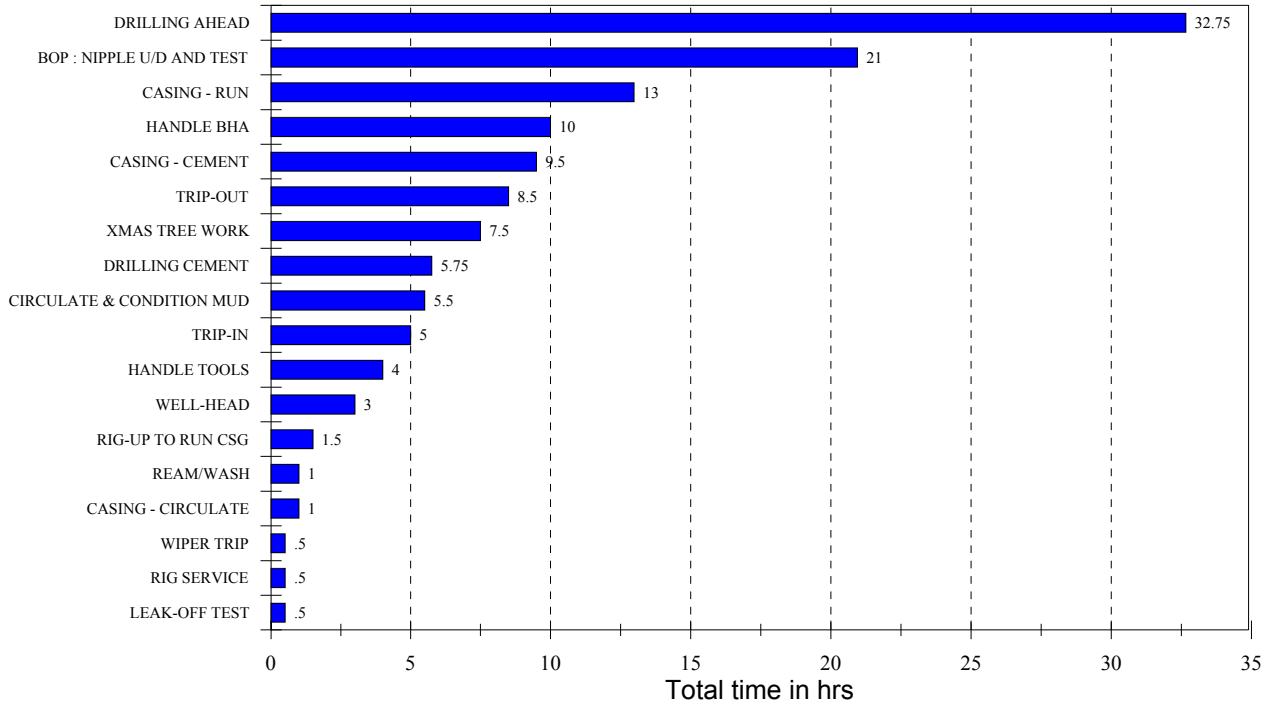
Total move time (hrs)	22.50	Total prod. time since spud (hrs) :	130.50
Total time on well excluding move (hrs)	156.00	Total troub. time since spud (hrs)	25.50
		% Trouble time	16.35

Productive Time by Op.



Productive time by Operation



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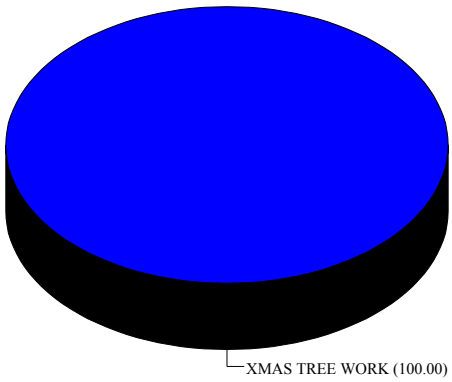
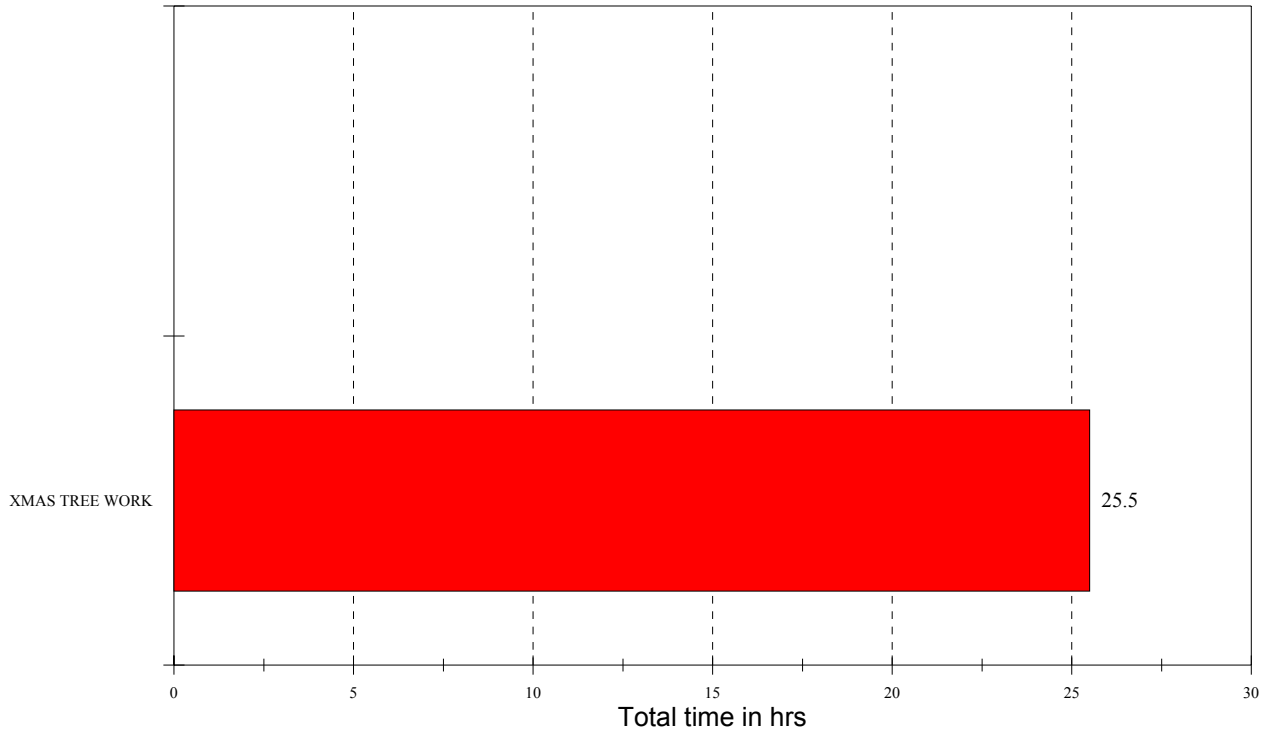
Trouble Time by Op.



NPT by Operation



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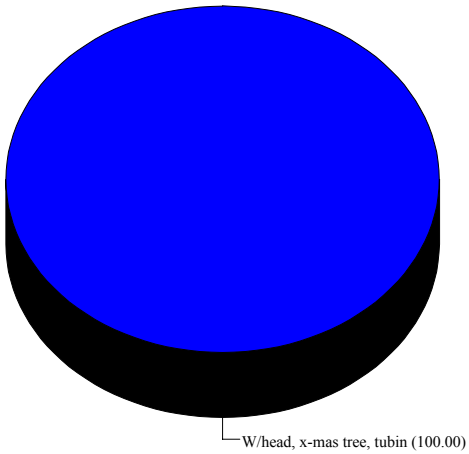
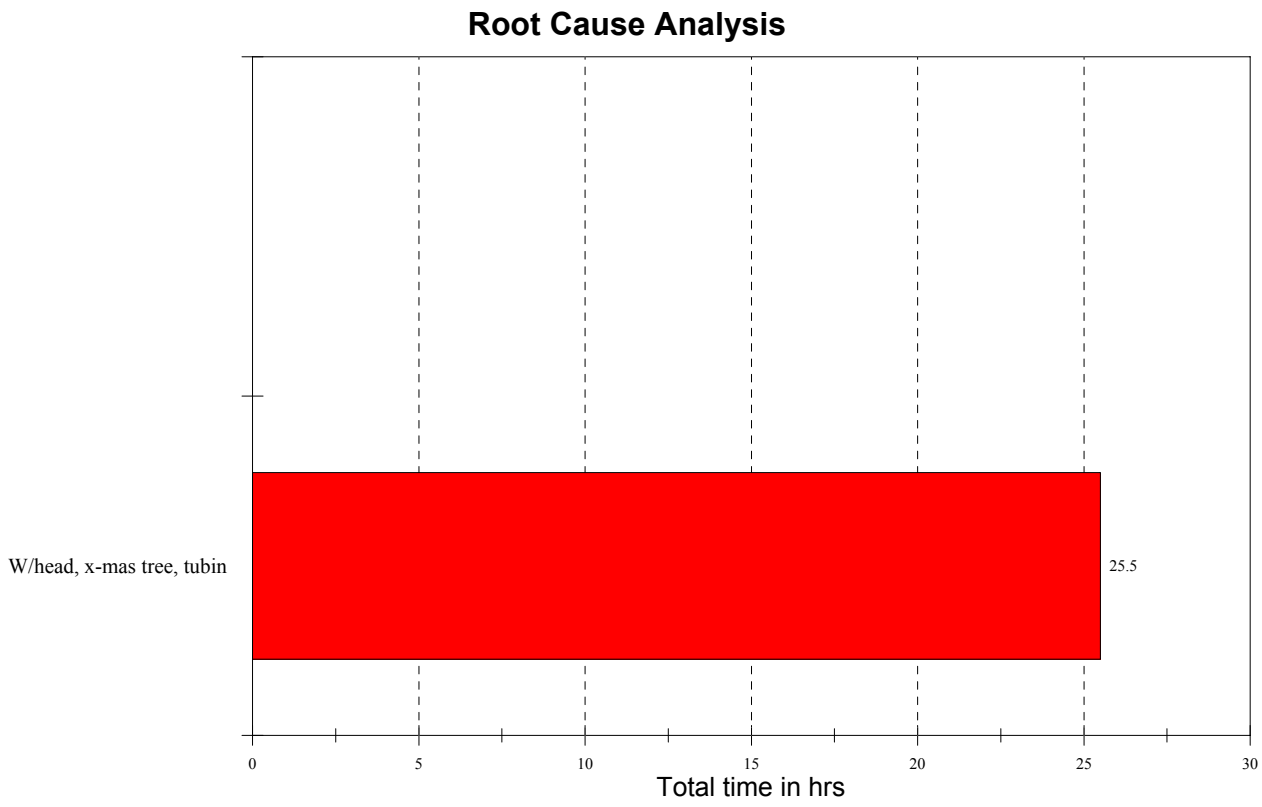
Root Cause Analysis





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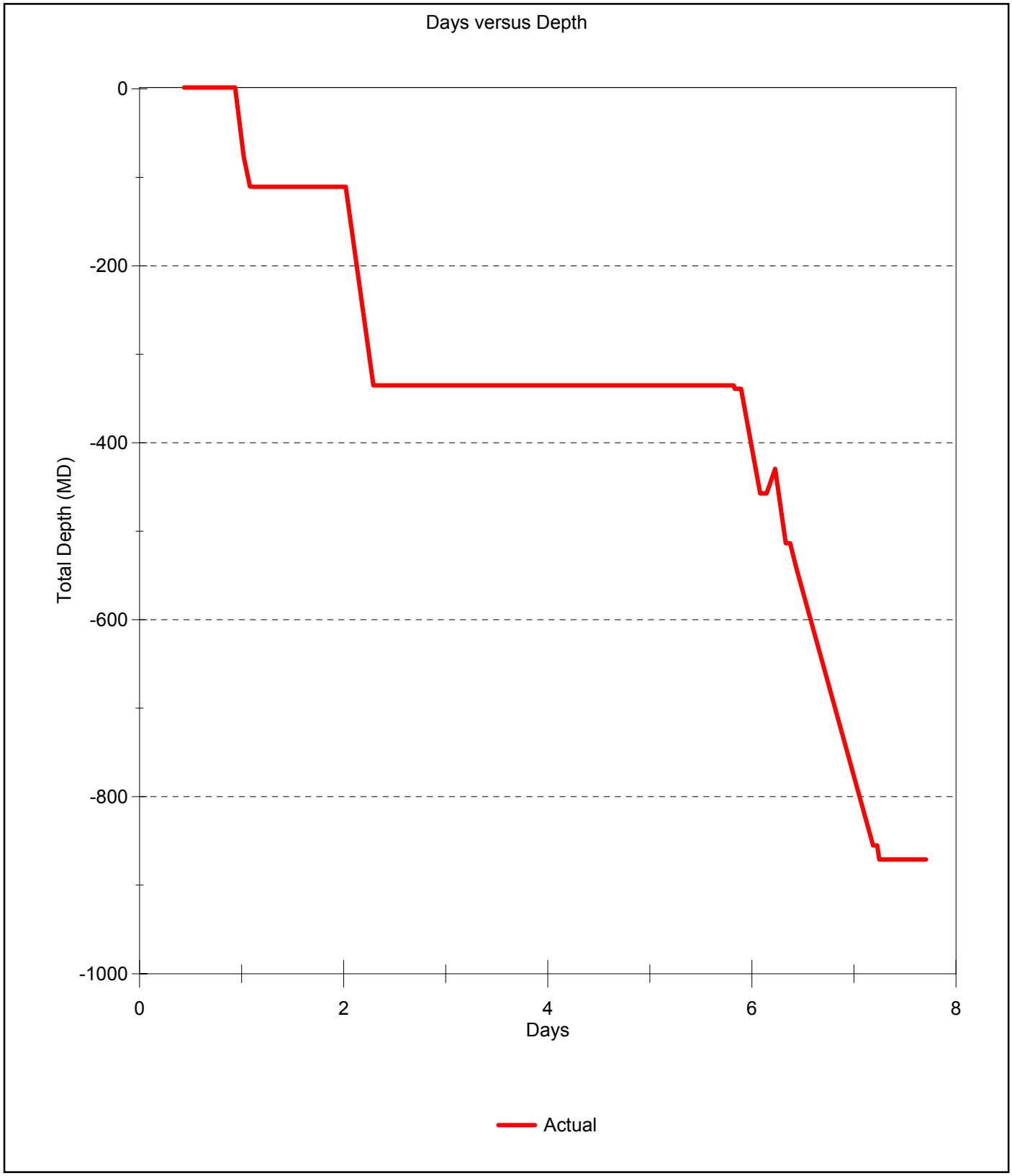
DEPTH @ 24:00 = 871.0m after 7.46 days since spud



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OMV

DAILY DRILLING REPORT # 9

DATE May 31, 2002

FROM : R. King / G. Othen
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	871.0	CUR. HOLE SIZE (")	12.25	AFE COST $	11,825,851
TVD (mBRT)	680.6	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
PROGRESS (m)	0.0	SHOE TVD (mBRT)	680	DAILY COST :	$584,297.00
DAYS ON WELL	8.46	FIT (sg)	0.00	CUM COST :	$5,452,445.00
DAYS +/- CURVE	0.40	LOT (sg)	0.00		

CURRENT OP @ 0600 Laying out cement head. Preparing 8 1/2" BHA.,

PLANNED OP. Set and Test seal assy / Test BOP / Make up and RIH with 8 1/2" Drilling assembly, drill out shoe track and perform L.O.T. / Drill 8 1/2" Hole.

Summary of period 0000 to 2400 hrs

Wiper trip. POOH, Prepared and ran 9 5/8" Casing, Cemented casing, bumped plug set seal assembly. Presure tested casing to 3,000 psi.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON May 31, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
IH1	P		RO	00:00	02:15	2.25	871	Continued pumping out F /- 600m to 450m (Drag 10-15 Kips) Pulled out F /- 450m to 327m.
IH1	P		RS	02:15	02:45	.50	871	Serviced TDS.
IH1	P		TI	02:45	05:00	2.25	871	RIH F /- 327m to726m. Tight @726m (Washed F/- 726m to 740 m) Continued RIH F/- 740m to 762m. Tight @762m (Washed F/- 762m to 800m) Continued RIH F/- 800 m to 871m. No fill on bottom.
IH1	P		CMD	05:00	05:15	.25	871	Spotted 50 bbls Hi-vis on bottom. Flow checked.
IH1	P		TO	05:15	05:30	.25	871	POOH F/- 871m to 800m. No Drag Hole good.
IH1	P		CMD	05:30	06:30	1.00	871	Circulated bottoms up at 800m. (Boost Riser)
IH1	P		TO	06:30	10:00	3.50	871	POOH F /- 800m. Flow checked at shoe. Normal hole drag, hole in good condition.
IH1	P		HBHA	10:00	10:30	.50	871	Down loaded Data from FEWD tool.
IH1	P		HBHA	10:30	10:45	.25	871	Broke bit, racked motor and FEWD tool. (Strap figure + .06)
IH1	P		WH	10:45	12:00	1.25	871	Made up jet sub, RIH and jet BOP and Well head, POOH
IH1	P		WH	12:00	13:00	1.00	871	RIH, recover wear bushing.
IC1	P		RRC	13:00	13:30	.50	871	Held JSA, Rigged up to run 9 5/8" Casing.
IC1	P		CRN	13:30	15:30	2.00	871	Picked up Shoe track and tested. Ran casing to 153m with hand slips.
IC1	P		CRN	15:30	16:30	1.00	871	Rigged up FMS and Tam packer.
IC1	P		CRN	16:30	19:00	2.50	871	Continued RIH with 9 5/8" Casing to 787m. (Circulated 100 bbls @ 13 3/8" Shoe)
IC1	P		RUC	19:00	20:00	1.00	871	Rigged down Tam packer and FMS. Picked up Hanger assembly.
IC1	P		CMD	20:00	21:30	1.50	871	Ran casing on landing string F /- 787m. Landed casing. Shoe MD 866.08m TVD 680.02m. Circulated 1 1/2 x Casing volume.
IC1	P		CMC	21:30	23:00	1.50	871	Made up cement hose and pressure tested lines to 3,000 psi. Pumped 60 bbl of Super flush 102. Pumped 10 bbls Sea water, Dropped bottom plug launching ball and sheared plug @ 1160 psi. Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Dropped top launching dart, sheared top plug @ 2,400 psi. Pumped a total of 10 bbls sea water.
IC1	P		CMC	23:00	23:30	.50	871	Displaced cement with rig pumps 180 bbls. Bumped plug and increased pressure to 850 psi / 5 min. Cement unit pressure tested casing to 3,000 psi / 10 min. Bled back pressure, floats good.
IC1	P		TO	23:30	24:00	.50	871	Removed cement hose, POOH with Hanger running tool.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 01, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
IC1	P		TO	00:00	00:30	.50	871	Recovered Hanger running tool.
IC1	P		WH	00:30	02:00	1.50	871	Made up seal assembly running tool, seal assembly and test cup. Ran seal assembly.
IC1	P		WH	02:00	03:00	1.00	871	Set seal assembly and tested 300 / 3,000 psi. 5 min / 10 min.

DATE May 31, 2002

DAILY DRILLING REPORT # 9

BALEEN # 3

VIC/L21

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
IC1	P		BOP	03:00	05:15	2.25	871	Tested BOP Annular 300 / 3,000 psi and Rams, fail safe valves 300 / 3,000 psi. 3 min / 10 min.
IC1	P		BOP	05:15	06:00	.75	871	POOH with Seal assembly running tool / test tool.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	33.0	May 26, 2002	May 27, 2002	139.8	5.82	336.0	336.0
INTERMEDIATE HOLE (1)	51.8	May 29, 2002	May 31, 2002	191.5	7.98	340.0	871.0
INTERMEDIATE CASING (1)	11.0	May 31, 2002	May 31, 2002	202.5	8.44	871.0	871.0

WBM Data COST TODAY : CUM. WB MUD COST: $112,075 CUM. WBM+OBM COST: $112,075

Type :	VISCOCITY (sec/qt) :	API FLUID LOSS (cm3/30min) :	Cl :	SOLIDS (%vol) :
	PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
FROM : Pit	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
TIME :	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
WEIGHT (sg) :			PM :	PH :
TEMP (C) :	Fann 3/6/100 :		PF :	PHPA (ppb) :

WBM Data COST TODAY : $2,777 CUM. WB MUD COST: $114,852 CUM. WBM+OBM COST: $114,852

Type : KCL / PHPA Glycol	VISCOCITY (sec/qt) : 66	API FLUID LOSS (cm3/30min) : 5	Cl : 38,000	SOLIDS (%vol) : 7
	PV (cps): 18	FILTER CAKE (32nds inch) : 1	K+C*1000 : 29000	H2O (%vol) : 93.0
FROM : FL	YP (lb100sq.ft): 38	HTHPFL (cm3/30min) :	HARD/Ca : 720	OIL (%vol) : 0
TIME : 24:00	GEL10s/10m/100m (lb100sq.ft) : 12 17 3	HTHP CAKE (32nds inch) :	MBT (ppb) : 5.0	SAND : TR
WEIGHT (sg) : 1.16			PM : .1	PH : 9.5
TEMP (C) :	Fann 3/6/100 : 12 13 38		PF : .1	PHPA (ppb) : .6

Bit Data for Bit # 3 IADC #

SIZE (") :	**12.50**		
MANUFACTURER :	RE	AVE WOB (k-lbs) :	15
TYPE :	MHT-13 GC	AVE RPM :	207
SERIAL # :	NL-5006	FLOW (gpm) :	834
DEPTH IN (m RT) :	336	PUMP PRESS. (psi):	2,030
DEPTH OUT (m RT) :	871	HSI (hp/sqi) :	0.286

Wear

I	O1	D	L	B	G	O2	R
1	2	WT	G	E	1/8	NO	TD

NOZZLES	Drilled over the last 24 hrs		Calculated over the bit run	
3 X 15	METERAGE (m) :	0	CUM.METERAGE (m)	657
1 X 24	ON BOTTOM HRS :	.0	CUM. ON BOT. HRS :	21.1
X	IADC DRILL. HRS :	.0	CUM.IADC DRILL HRS:	31.3
X	TOTAL REVS :	0	CUM.TOT. REVS :	262,062
X	ROP (m/hr):		ROP (m/hr):	21.0

BHA # **Length (ft) :**

WT BLW JAR(k-lbs):	STRING WT(k-lbs) :	TRQE MAX (ft-lbs):	D.C. (1) ANN. VELOCITY (mpm): 0
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	TRQE ON (ft-lbs):	D.C. (2) ANN VELOCITY (mpm): 0
	SLK 0FF WT(k-lbs) :	TRQE OFF (ft-lbs):	H.W.D.P. ANN VELOCITY (mpm): 0
			D.P. ANN VELOCITY (mpm) : 0

BHA DESCRIPTION :

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

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DATE May 31, 2002

DAILY DRILLING REPORT # 9

BALEEN # 3

VIC/L21

BHA # 4 Length (ft) :143.7

WT BLW JAR(k-lbs):	27	STRING WT(k-lbs) :	50	TRQE MAX (ft-lbs):	4,000	D.C. (1) ANN. VELOCITY (mpm):	217
BHA WT(k-lbs) :	30	PICK UP WT(k-lbs) :	60	TRQE ON (ft-lbs):	3,000	D.C. (2) ANN VELOCITY (mpm):	0
		SLK 0FF WT(k-lbs) :	45	TRQE OFF (ft-lbs):	2,000	H.W.D.P. ANN VELOCITY (mpm):	149
						D.P. ANN VELOCITY (mpm) :	149

BHA DESCRIPTION : 12-1/4" Bit,8"Motor, FEWD,F-sub,X/O,9xHWDP,Jars,3xHWDP,30x5"DP,24xHWDP.

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT
RLL Tool	34.3	DM-1515 HGVR	FEWD Tool
MBT Tool	34.3	DMO-1535 KF8	FEWD Tool
JARS	34.3	DAH-2122	

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
751	647	65.86	235.	235.7	265.2	5.40	147.7	220.3	
780	658	70.04	235.	235.7	292.2	4.30	162.9	242.6	
808	667	74.32	234.	234.7	318.1	4.84	177.7	263.9	
838	674	76.30	234.	234.2	347.7	2.00	194.9	287.9	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	1864	238		1626
Bentonite	SX	1662			1662
G-neat	SX	1942	493		1449
G+35% SiFl	SX				0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	22	22	98
Drill Water	M3	467	187		280
Heli-fuel	ltr	7214	916		6298
Base Oil	M3				0
Rig Fuel	M3	359	7		352
Brine	M3				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00	65	97	834	2030	30	150	800	9.6
2	National	6.00	65	97	834	2030	40	200	800	9.6
3	National	6.00	65	97	834	2030	50	250	800	9.6

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	866.1 866.1	680.0 680.0			Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Displaced with 190 bbls, Bumped plug and pressure tested casing to 3,000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
9 5/8" Hanger	2.33	8.750	47.0	L-80	New Vam
X / O Joint (NK3SB pin X N-VAM box)	3.17	8.750	47.0	L-80	N-Vam x NK
58 Joints 9 5/8" Casing	746.36	8.750	47.0	L-80	NK 3SB
Float joint	13.05	8.750	47.0	L-80	N-Vam x NK
Intermediate Joint	12.03	8.750	47.0	L-80	New Vam
Shoe Joint	12.50	8.750	47.0	L-80	New Vam

Personnel : on Site =89

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	R.King	OMV	5
Drilling Supervisor	G.Othen	Service Company	27
Drilling Engineer	H.Heinzle	Diamond Offshore	49
Geologist	Toliday / Boothby	Catering	8

Safety, Inspections and Drills Summary

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Shakers, Volumes and Losses Data

ENGINEER Howie / Czarny

SHAKER 1	4 x 84
SHAKER 2	4 x 84
SHAKER 3	4 x120
SHAKER 4	4 x84
SHAKER 5	

VOLUME AVAILABLE (bbl) = 867

ACTIVE	413	MIXING	
HOLE	291	SLUG	
RESERVE	163	HEAVY	

LOSSES (bbl) = 529

DOWNHOLE	
SURF. + EQUIP	96.00
DUMPED	433.00

COMMENTS

Dumped old mud. Start mixing Flo-Pro mud system.

Anchors

A 1	215	A 2	260	A 3	215	A 4	200	A 5	170
A 6	175	A7	290	A8	295				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	Dept Ri	428	0	600	192	1188	838	
Pacific Sentinel	At Loca	215		620	98			

Weather

VISIBILITY(nm)	14
WIND SP. (kts)	27.0
WIND DIR (deg)	260
PRES.(mbars)	1017
AIR TEMP (C)	15.0

Rig / Sea Data

RIS.TENS (klbs)	216
VDL (mt)	1,907
WAVES (m)	1.2
SWELL (m)	1.2

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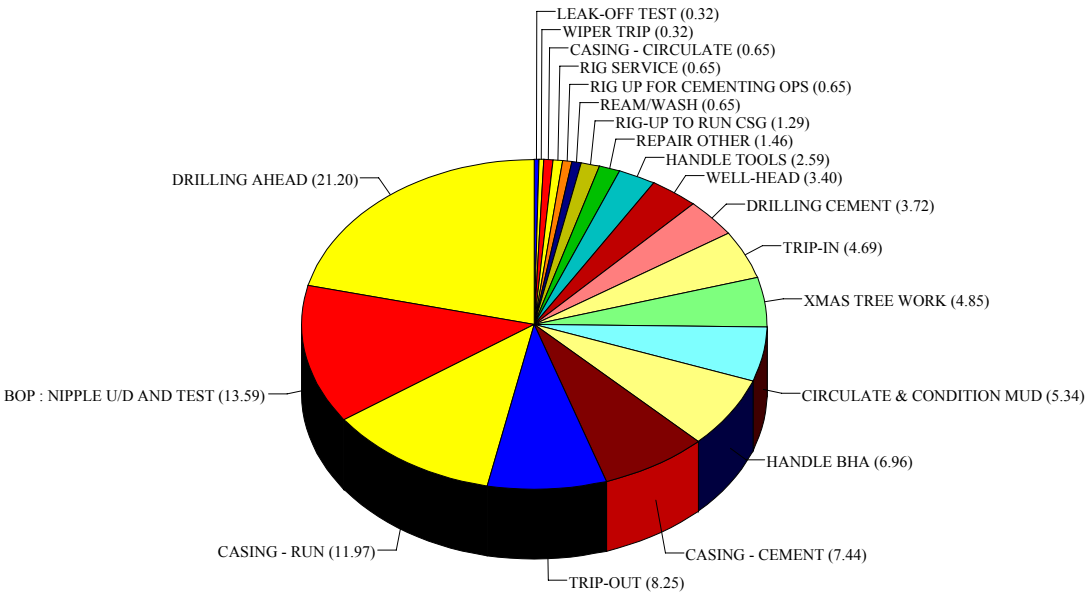
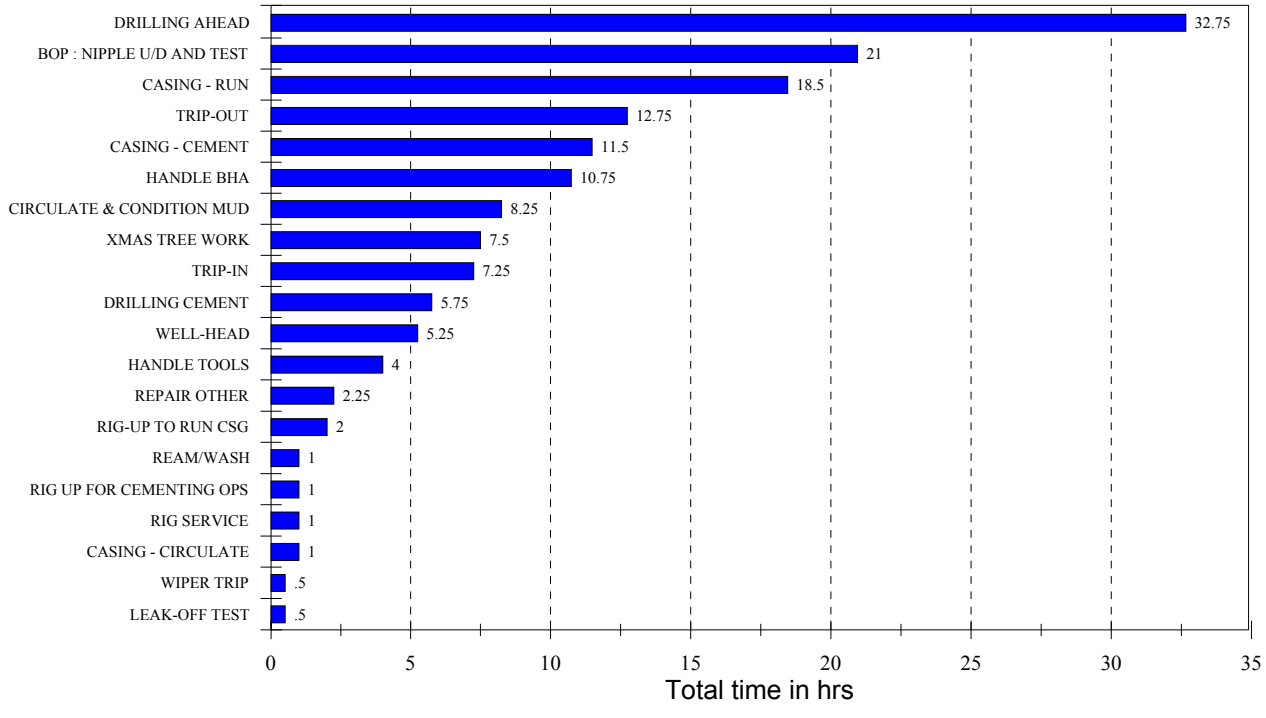
Total move time (hrs)	22.50	Total prod. time since spud (hrs) :	154.50
Total time on well excluding move (hrs)	180.00	Total troub. time since spud (hrs)	25.50
		% Trouble time	14.17

Productive Time by Op.



Productive time by Operation



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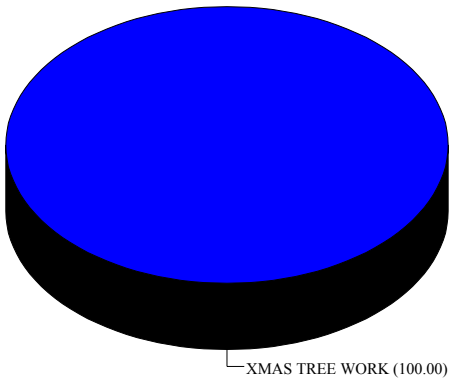
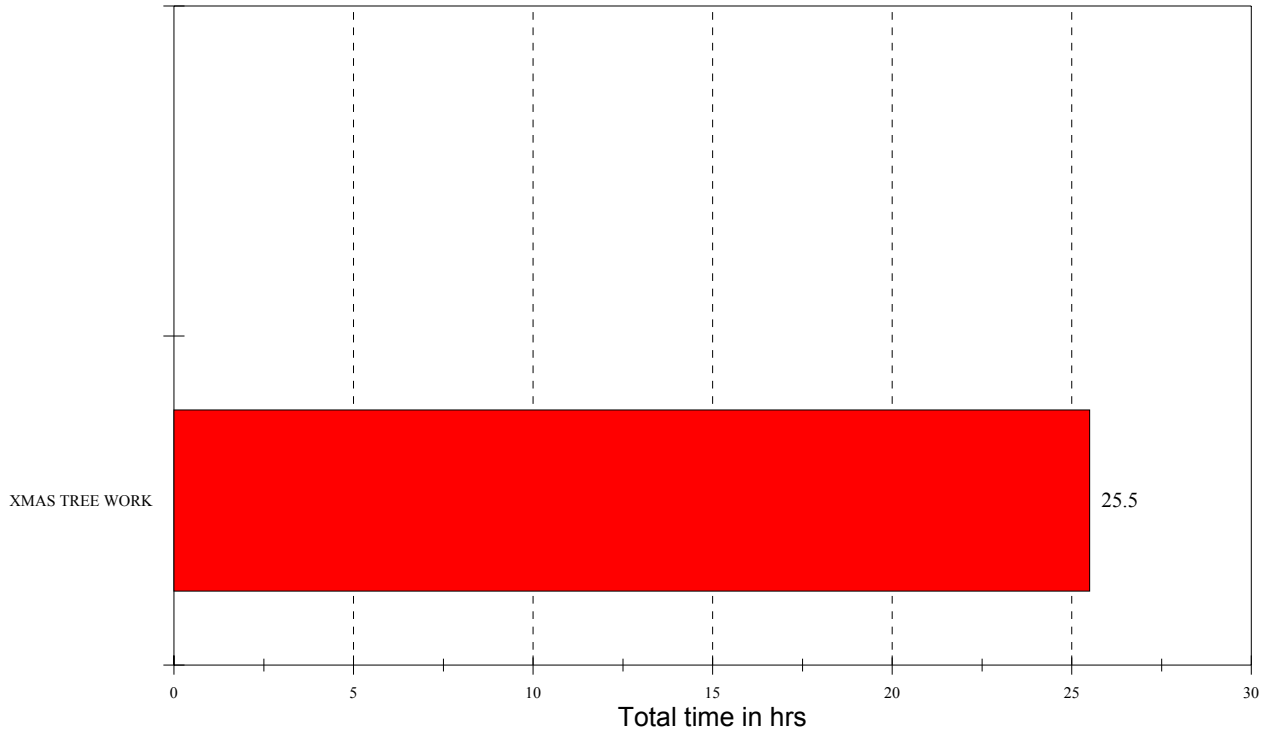
Trouble Time by Op.



NPT by Operation



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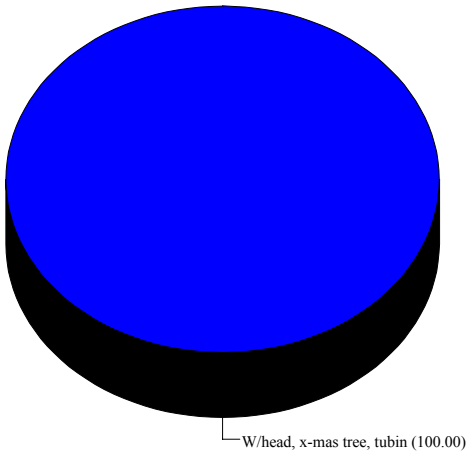
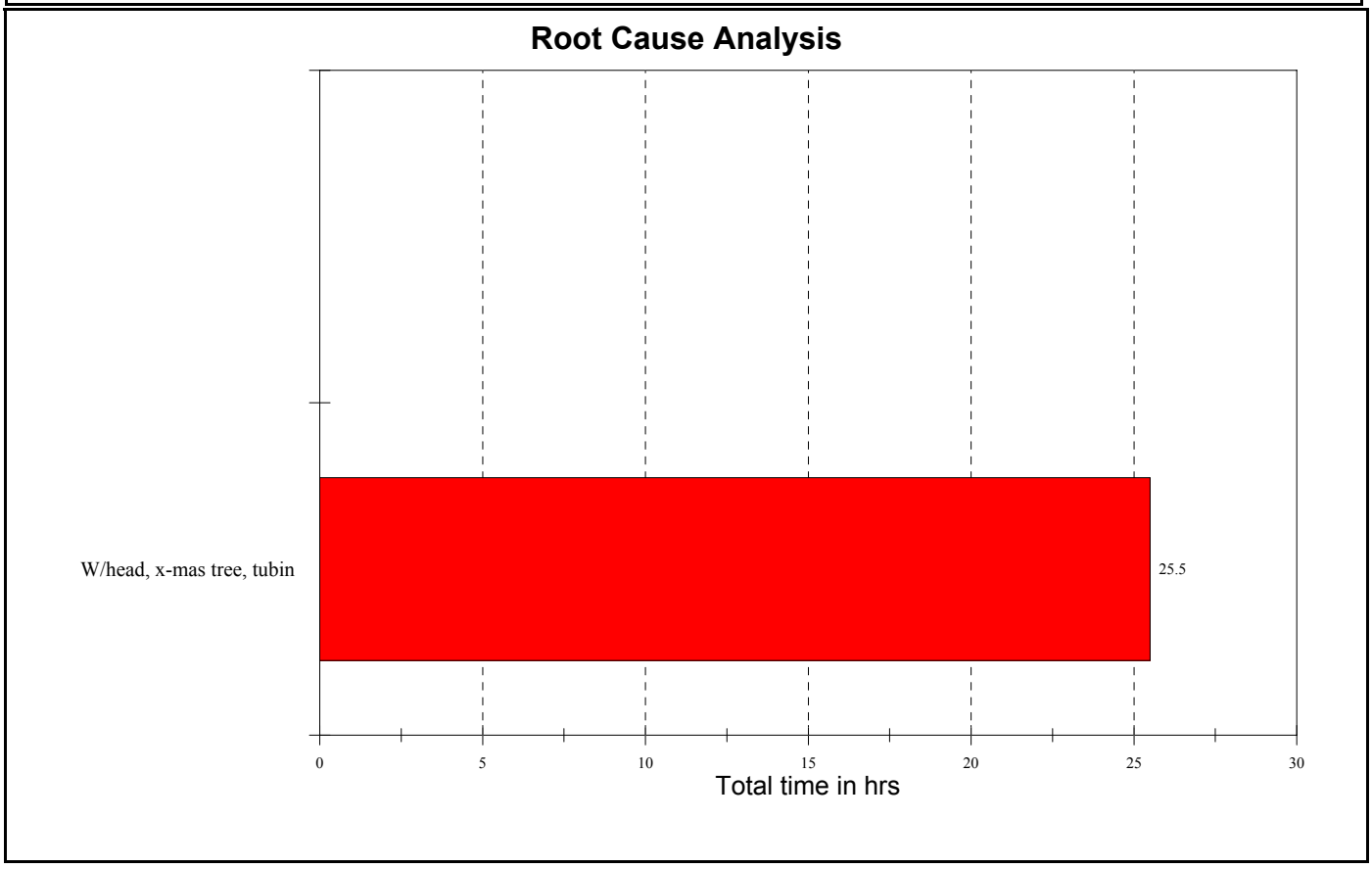
Root Cause Analysis





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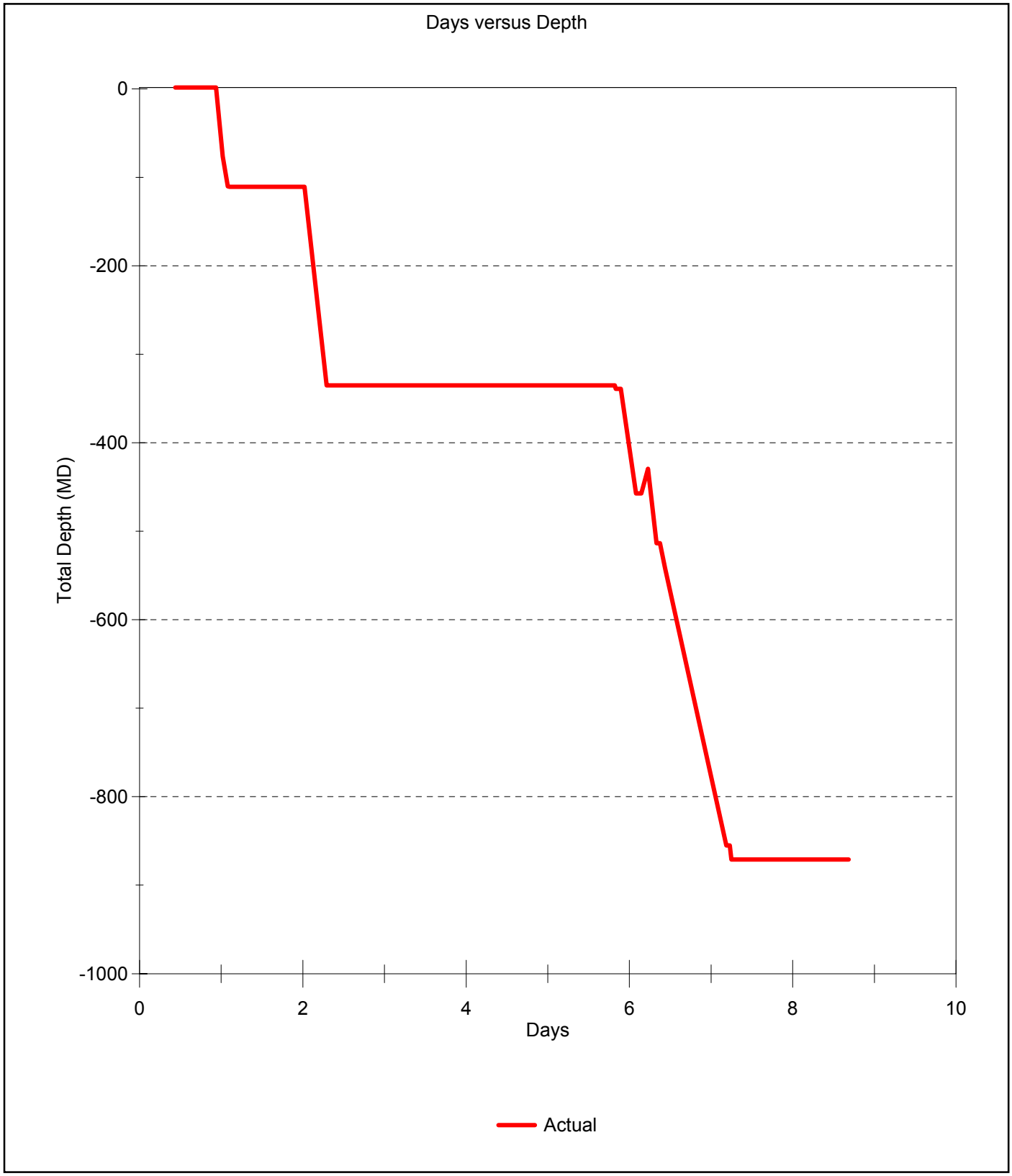
DEPTH @ 24:00 = 871.0m after 8.46 days since spud



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OMV

DAILY DRILLING REPORT # 10

DATE Jun 01, 2002

FROM : R. King / G. Othen
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	919.0	CUR. HOLE SIZE (")	8.50	AFE COST $	11,825,851
TVD (mBRT)	684.8	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
PROGRESS (m)	48.0	SHOE TVD (mBRT)	680	DAILY COST :	$478,682.00
DAYS ON WELL	9.46	FIT (sg)	1.41	CUM COST :	$5,931,127.00
DAYS +/- CURVE	0.23	LOT (sg)	0.00		

CURRENT OP @ 0600 Drilling 8 1/2" Hole.
PLANNED OP. Continue to drill 8 1/2" Hole.

Summary of period 0000 to 2400 hrs

Ran & set seal assembly, tested to 3,000 psi. Made up 8 1/2" Drilling assembly. Performed F.I.T. (EMW of 1.41 SG) Drilled 8 1/2" hole F /- 871m to 919m.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 01, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
IC1	P		TO	00:00	00:30	.50	871	Recovered Hanger running tool.
IC1	P		WH	00:30	02:00	1.50	871	Made up seal assembly running tool, seal assembly and test cup. Ran seal assembly.
IC1	P		WH	02:00	03:00	1.00	871	Set seal assembly and tested 300 / 3,000 psi. 5 min / 10 min.
IC1	P		BOP	03:00	05:15	2.25	871	Tested BOP Annular 300 / 3,000 psi and Rams, fail safe valves 300 / 3,000 psi. 3 min / 10 min.
IC1	P		BOP	05:15	06:00	.75	871	POOH with Seal assembly running tool / test tool.
IC1	P		HT	06:00	07:00	1.00	871	Service broke cement head and laid out.
IC1	P		PT	07:00	08:30	1.50	871	Pressure tested surface equipment. 250 / 5,000 psi. 5 / 10 min.
IC1	P		HBHA	08:30	09:30	1.00	871	Picked up 6 3/4" Motor, set angle to 1.5 Deg. Tested motor and made up Bit.
IC1	P		HBHA	09:30	12:00	2.50	871	Set up and tested FEWD tool.
IC1	P		TI	12:00	13:30	1.50	871	RIH to 810m.
IC1	P		RS	13:30	14:00	.50	871	Serviced TDS.
IH1	P		DFS	14:00	16:30	2.50	871	RIH F/- 810m to 842m Tagged cement. Drilled out shoe track and rat hole to 871m. (Firm cement)
PH	P		DA	16:30	16:45	.25	873	Drilled 8 1/2" Hole F/- 871m to 873m.
PH	P		CMD	16:45	18:00	1.25	873	Pumped 50 bbls of Hi-vis. Changed mud system over to Flo-Pro mud @ 1.12 SG
PH	P		LOT	18:00	19:00	1.00	873	Performed F.I.T. EMW of 1.41 SG
PH	P		DA	19:00	22:30	3.50	919	Drilled 8 1/2" Hole F/- 873m to 919m.
PH	TP	MSC	RR	22:30	24:00	1.50	919	Power failure to TDS. Pulled back to shoe @ 866m (Laid out singles due to top drive unable to rotate)

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 02, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PH	TP	MSC	RR	00:00	03:00	3.00	919	Hole in good condition. Repaired electrical junction box on TDS. (Circulated bottoms up at shoe) Ran back to bottom, hole good.
PH	P		DA	03:00	06:00	3.00	966	Drilled 8 1/2" Hole F/- 919m to 966m. (683.28m TVD)

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	33.0	May 26, 2002	May 27, 2002	139.8	5.82	336.0	336.0
INTERMEDIATE HOLE (1)	54.3	May 29, 2002	Jun 01, 2002	194.0	8.08	340.0	871.0
INTERMEDIATE CASING (1)	25.0	May 31, 2002	Jun 01, 2002	219.0	9.13	871.0	871.0
PRODUCTION HOLE (1)	7.5	Jun 01, 2002	Jun 01, 2002	226.5	9.44	873.0	919.0

DATE Jun 01, 2002

DAILY DRILLING REPORT # 10

BALEEN # 3

VIC/L21

WBM Data

COST TODAY : $87,347 CUM. WB MUD COST: $202,199 CUM. WBM+OBM COST: $202,199

Type :	**Flo-Pro**	VISCOCITY (sec/qt) :	84	API FLUID LOSS (cm3/30min) :	5	Cl :	78,000	SOLIDS (%vol) :	5
FROM :	FL	PV (cps):	13	FILTER CAKE (32nds inch) :	1	K+C*1000 :	29000	H2O (%vol) :	
TIME :	24:00	YP (lb100sq.ft):	40	HTHPFL (cm3/30min) :		HARD/Ca :	360	OIL (%vol) :	95
WEIGHT (sg) :	1.11	GEL10s/10m/100m (lb100sq.ft) :	18 22	HTHP CAKE (32nds inch) :		MBT (ppb) :	1.3	SAND :	0
TEMP (C) :	30	Fann 3/6/100 :	18 20 37			PM :	.1	PH :	9.5
						PF :	.1	PHPA (ppb) :	

Bit Data for Bit # 4

IADC # 5 2 7

Wear	I	O1	D	L	B	G	O2	R

SIZE (") :	**8.50**		
MANUFACTURER :	Reed	AVE WOB (k-lbs) :	14
TYPE :	EHP-41 ALKDH	AVE RPM :	120
SERIAL # :	M-25484	FLOW (gpm) :	588
DEPTH IN (m RT) :	871	PUMP PRESS. (psi):	2,000
DEPTH OUT (m RT) :		HSI (hp/sqi) :	0.982

NOZZLES	Drilled over the last 24 hrs		Calculated over the bit run	
3 x14	METERAGE (m) :	48	CUM.METERAGE (m)	48
x	ON BOTTOM HRS :	2.0	CUM. ON BOT. HRS :	2.0
x	IADC DRILL. HRS :	3.8	CUM.IADC DRILL HRS:	3.8
x	TOTAL REVS :	14,400	CUM.TOT. REVS :	14,400
x	ROP (m/hr):	12.8	ROP (m/hr):	12.8

BHA # 5 Length (ft) :92.1

WT BLW JAR(k-lbs):	10	STRING WT(k-lbs) :	45	TRQE MAX (ft-lbs):	5,000	D.C. (1) ANN. VELOCITY (mpm):	0
BHA WT(k-lbs) :	12	PICK UP WT(k-lbs) :	50	TRQE ON (ft-lbs):	5,000	D.C. (2) ANN VELOCITY (mpm):	0
		SLK 0FF WT(k-lbs) :	30	TRQE OFF (ft-lbs):	5,000	H.W.D.P. ANN VELOCITY (mpm):	93
						D.P. ANN VELOCITY (mpm) :	93

BHA DESCRIPTION : 8.5 Bit,6.75 Motor,FEWD,Float sub,3xHWDP,Jars,3xHWDP

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT
PM (Survey tool)	5.0	DMO-1540M6	FEWD Component
DGR (Logging tool)	5.0	DM-1537HNRCG16	FEWD Component
Pulser	5.0	DMO-1528K6	FEWD Component
Jar	5.0	DAH-2122	

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
808	667	74.32	234.	234.7	318.1	4.84	177.7	263.9	
838	674	76.30	234.	234.2	347.7	2.00	194.9	287.9	
871	681	80.13	235.	235.2	379.8	3.61	213.5	314.2	
892	683	86.39	235.	235.7	400.7	8.97	225.3	331.3	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	1626			1626
Bentonite	SX	1662			1662
G-neat	SX	1449			1449
G+35% SiFl	SX				0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	26	26	98
Drill Water	M3	280	162	600	718
Heli-fuel	ltr	6298	458		5840
Base Oil	M3				0
Rig Fuel	M3	352	8		343
Brine	M3				0

Pump Data

	Pump Data - last 24 hrs						Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00	65	97	196	2000	30	280	873	9.3
2	National	6.00	65	97	196	2000	40	330	873	9.3
3	National	6.00	65	97	196	2000	50	450	873	9.3

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Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	866.1 866.1	680.0 680.0		1.41 1.41	Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Displaced with 190 bbls, Bumped plug and pressure tested casing to 3,000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
9 5/8" Well head	2.33	8.750	47.0	L-80	New Vam
X / O Joint (NK3SB pin X N-VAM box)	3.17	8.750	47.0	L-80	N-Vam x NK
58 Joints 9 5/8" Casing	746.36	8.750	47.0	L-80	NK 3SB
Float joint	13.05	8.750	47.0	L-80	N-Vam x NK
Intermediate Joint	12.03	8.750	47.0	L-80	New Vam
Shoe Joint	12.50	8.750	47.0	L-80	New Vam

Personnel : on Site =96

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	R.King	OMV	7
Drilling Supervisor	G.Othen	Service Company	32
Drilling Engineer	H.Heinzle	Diamond Offshore	49
Geologist	Toliday / Boothby	Catering	8

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER Howie / Czarny

SHAKER 1	4 x 84
SHAKER 2	4 x 84
SHAKER 3	4 x 120
SHAKER 4	4 x 84
SHAKER 5	

VOLUME AVAILABLE (bbl) = 1440

ACTIVE	653	MIXING	
HOLE	279	SLUG	
RESERVE	508	HEAVY	

LOSSES (bbl) = 0

DOWNHOLE	
SURF. + EQUIP	0.00
DUMPED	

COMMENTS

Drilled shoe with old mud, dumped returns.

Anchors

A 1	215	A 2	255	A 3	215	A 4	195	A 5	170
A 6	180	A7	290	A8	300				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	Dept Ri	419	0	0	188	1188	838	
Pacific Sentinel	Geelon	215		620	98			

Weather

VISIBILITY(nm)	14
WIND SP. (kts)	27.0
WIND DIR (deg)	260
PRES.(mbars)	1027
AIR TEMP (C)	15.0

Rig / Sea Data

RIS.TENS (klbs)	216
VDL (mt)	1,982
WAVES (m)	1.2
SWELL (m)	1.5

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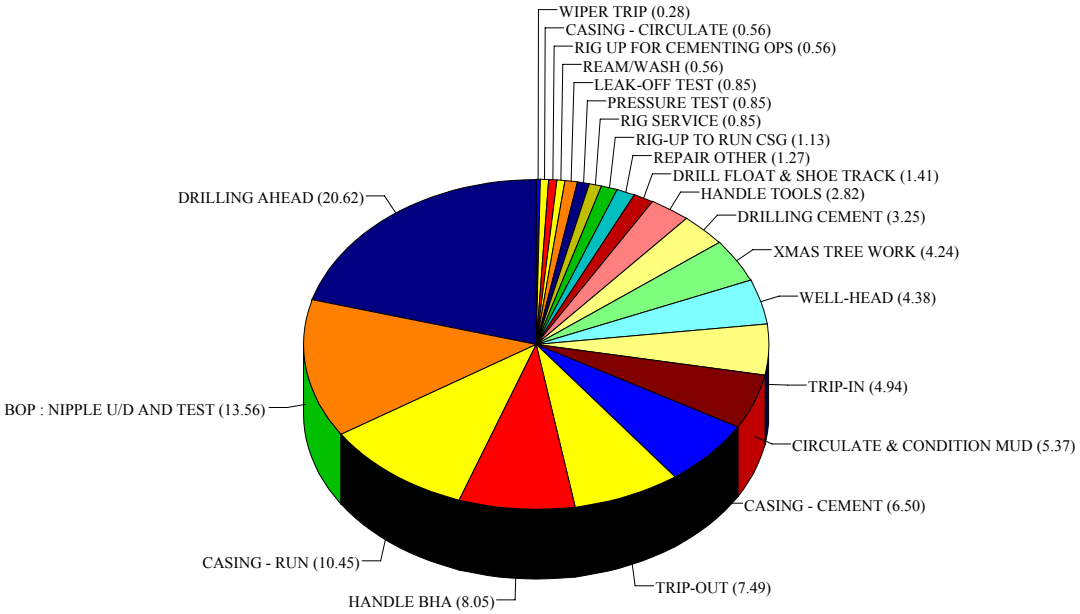
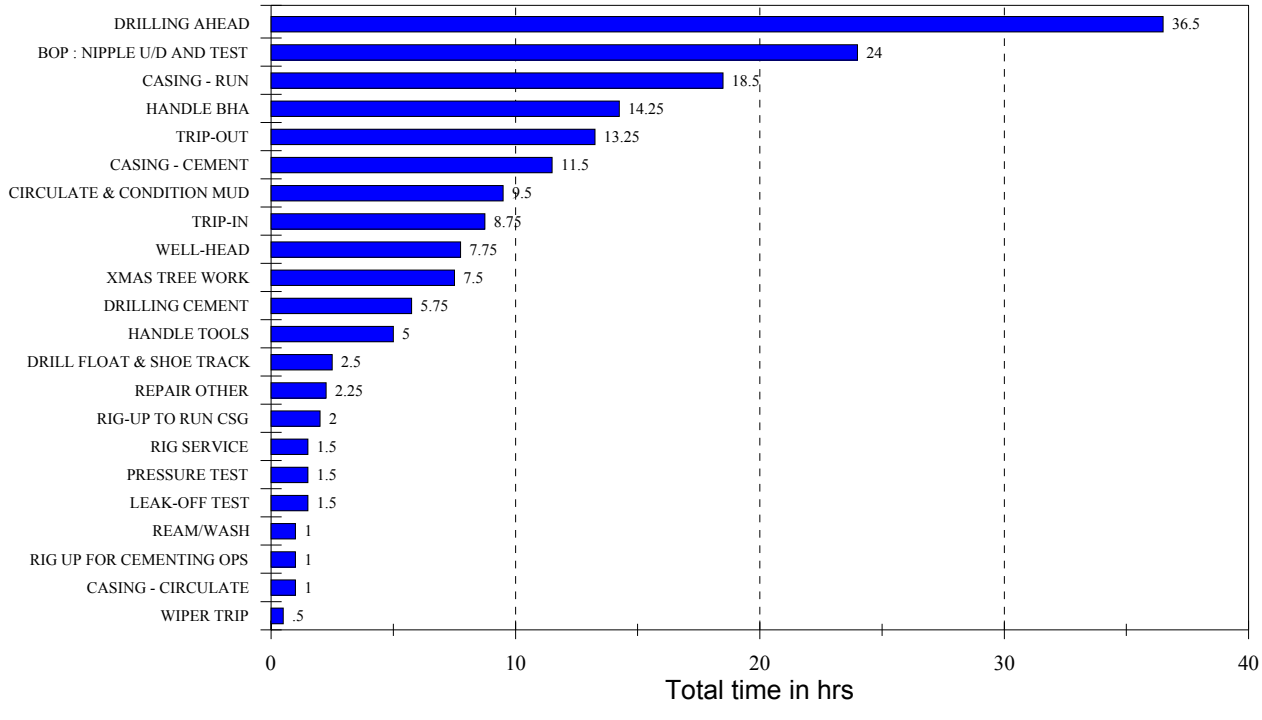
Total move time (hrs)	22.50	Total prod. time since spud (hrs) :	177.00
Total time on well excluding move (hrs)	204.00	Total troub. time since spud (hrs)	27.00
		% Trouble time	13.24

Productive Time by Op.



Productive time by Operation



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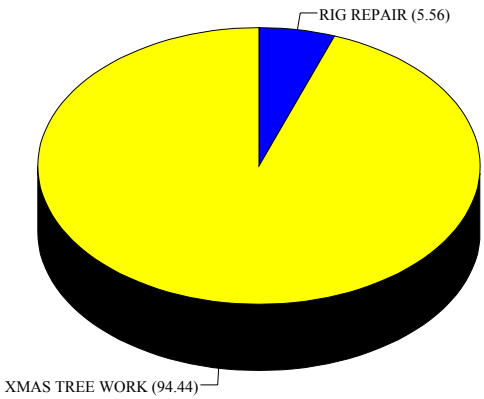
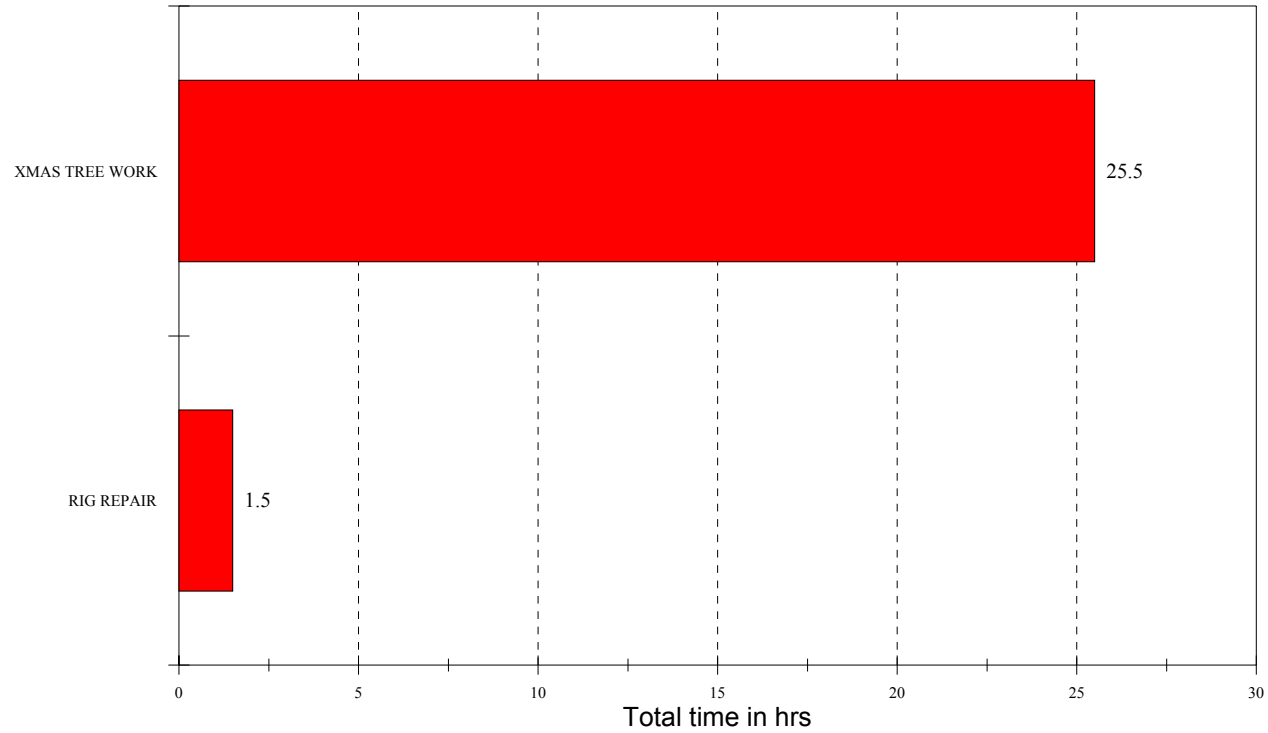
Trouble Time by Op.



NPT by Operation



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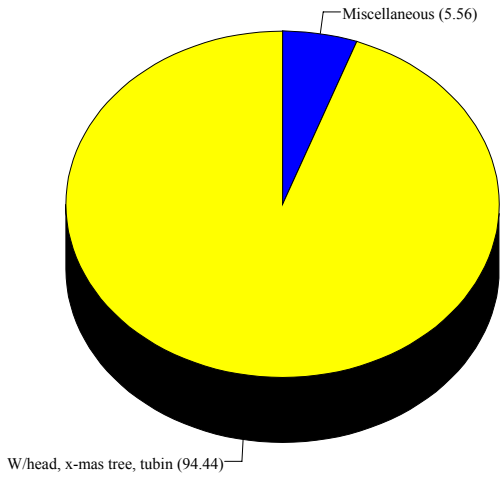
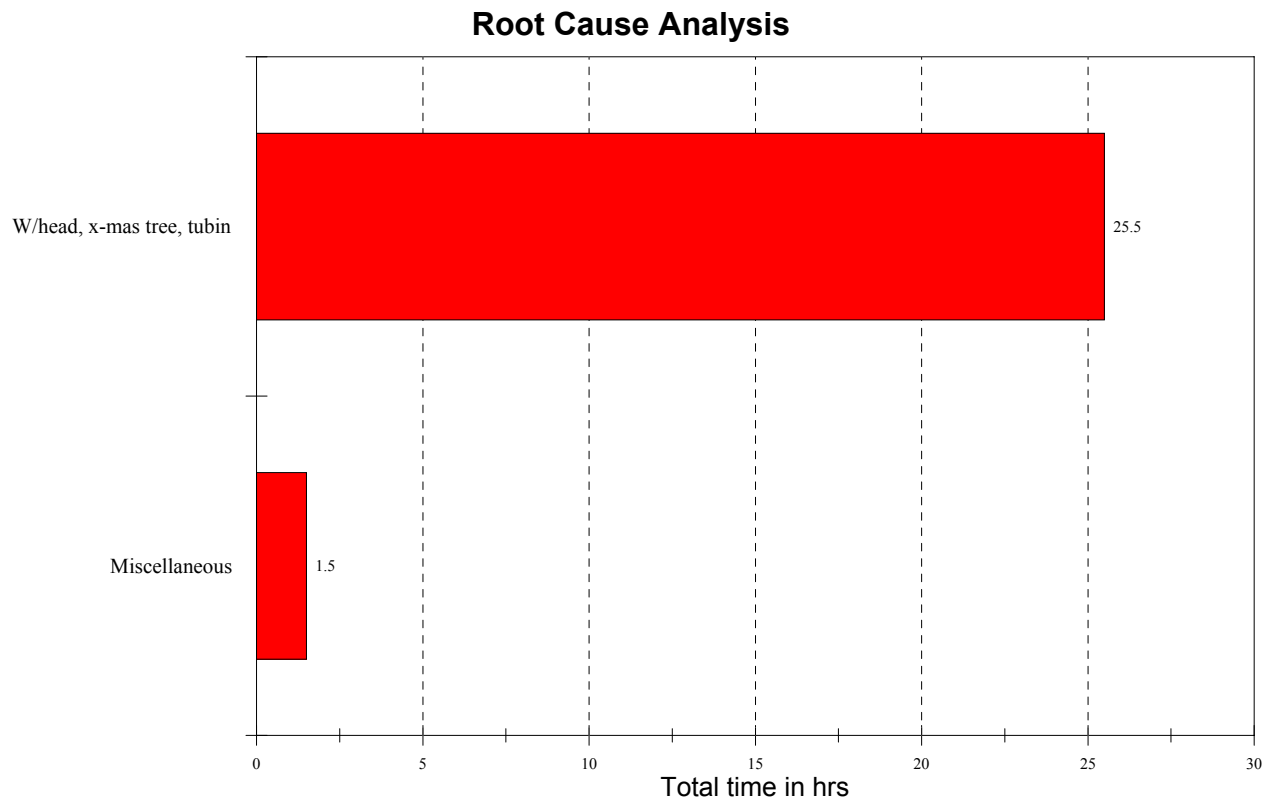
Root Cause Analysis





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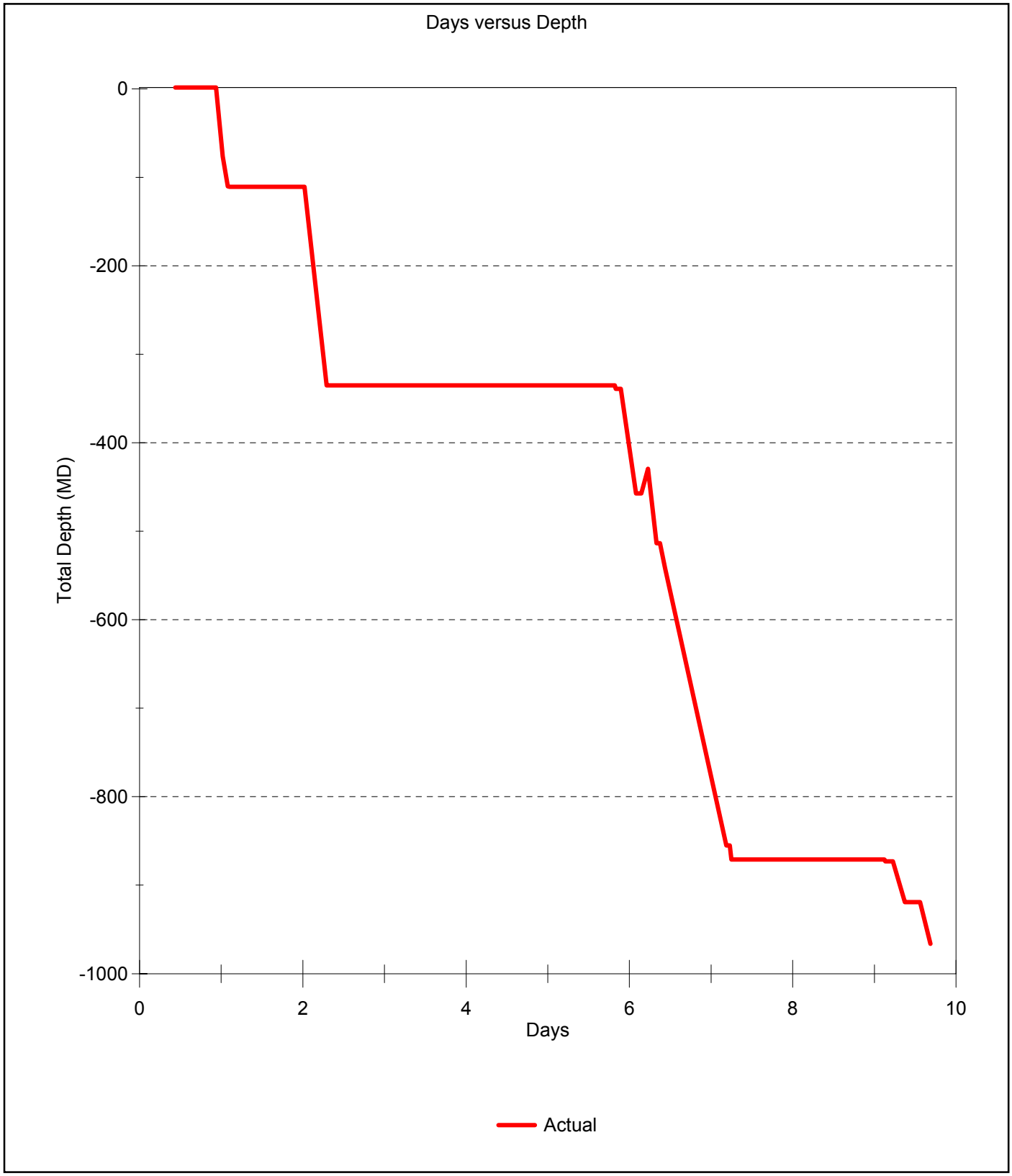
DEPTH @ 24:00 = 919.0m after 9.46 days since spud



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OMV

DAILY DRILLING REPORT # 11

DATE Jun 02, 2002

FROM : R. King / G. Othen
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	1,287.0	CUR. HOLE SIZE (")	8.50	AFE COST $	11,825,851
TVD (mBRT)	672.3	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
PROGRESS (m)	368.0	SHOE TVD (mBRT)	680	DAILY COST :	$369,707.00
DAYS ON WELL	10.46	FIT (sg)	1.41	CUM COST :	$6,300,834.00
DAYS +/- CURVE	0.00	LOT (sg)	0.00		

CURRENT OP @ 0600 Backreaming out of Hole.

PLANNED OP. Drill to TD, Back ream out to 1050m, FEWD Log section 1050m to 1200m, POOH.

Summary of period 0000 to 2400 hrs

Repaired TDS. Drilled 81/2" Hole F/- 919m to 1287m. (672.33mTVD)

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 02, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PH	TP	MSC	RR	00:00	03:00	3.00	919	Depth 866m. Hole in good condition. Repaired electrical junction box on TDS. (Circulated bottoms up at shoe) Ran back to 919m, hole good.
PH	P		DA	03:00	14:30	11.50	1,100	Drilled 8 1/2" Hole F/- 919m to 1100m.
PH	P		CS	14:30	15:30	1.00	1,100	Circulated sample to surface @ 1100m. (678.52m TVD)
PH	P		DA	15:30	24:00	8.50	1,287	Drilled F/- 1100m to 1287m. (672.33m TVD)

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 03, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PH	P		DA	00:00	03:30	3.50	1,352	Drilled 8 1/2"Hole F/- 1287m to 1352m (673.33m TVD)
PH	P		CS	03:30	05:00	1.50	1,352	Circulated sample to surface, continued to circulate untill shakers clean.
PH	P		RW	05:00	06:00	1.00	1,352	Backreamed F/- 1352m to 1050m.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	33.0	May 26, 2002	May 27, 2002	139.8	5.82	336.0	336.0
INTERMEDIATE HOLE (1)	54.3	May 29, 2002	Jun 01, 2002	194.0	8.08	340.0	871.0
INTERMEDIATE CASING (1)	25.0	May 31, 2002	Jun 01, 2002	219.0	9.13	871.0	871.0
PRODUCTION HOLE (1)	31.5	Jun 01, 2002	Jun 02, 2002	250.5	10.44	873.0	1,287.0

WBM Data COST TODAY : $5,161 CUM. WB MUD COST: $207,360 CUM. WBM+OBM COST: $207,360

Type :	**Flo-Pro**	VISCOCITY (sec/qt) :	64	API FLUID LOSS (cm3/30min) :	5	Cl :	80,000	SOLIDS (%vol) :	6
FROM :	FL	PV (cps):	12	FILTER CAKE (32nds inch) :	1	K+C*1000 :	78000	H2O (%vol) :	94.0
TIME :	24:00	YP (lb100sq.ft):	44	HTHPFL (cm3/30min) :		HARD/Ca :	560	OIL (%vol) :	0
WEIGHT (sg) :	1.16	GEL10s/10m/100m (lb100sq.ft) :	19 25	HTHP CAKE (32nds inch) :		MBT (ppb) :	4.5	SAND :	0
TEMP (C) :	48	Fann 3/6/100 :	19 22 40			PM :	.1	PH :	9.5
						PF :	.1	PHPA (ppb) :	

WBM Data COST TODAY : CUM. WB MUD COST: $207,360 CUM. WBM+OBM COST: $207,360

Type :	VISCOCITY (sec/qt) :		API FLUID LOSS (cm3/30min) :		Cl :		SOLIDS (%vol) :	
	PV (cps):		FILTER CAKE (32nds inch) :		K+C*1000 :		H2O (%vol) :	
FROM :	YP (lb100sq.ft):		HTHPFL (cm3/30min) :		HARD/Ca :		OIL (%vol) :	
TIME :	GEL10s/10m/100m (lb100sq.ft) :		HTHP CAKE (32nds inch) :		MBT (ppb) :		SAND :	
WEIGHT (sg) :					PM :		PH :	
TEMP (C) :	Fann 3/6/100 :				PF :		PHPA (ppb) :	

DATE Jun 02, 2002

DAILY DRILLING REPORT # 11

BALEEN # 3

VIC/L21

Bit Data for Bit # 4

IADC # 5 2 7

SIZE (") :	**8.50**
MANUFACTURER :	Reed
TYPE :	EHP-41 ALKDH
SERIAL # :	M-25484
DEPTH IN (m RT) :	871
DEPTH OUT (m RT) :	
AVE WOB (k-lbs) :	9
AVE RPM :	125
FLOW (gpm) :	607
PUMP PRESS. (psi):	2,475
HSI (hp/sqi) :	1.080

Wear

I	O1	D	L	B	G	O2	R

NOZZLES	Drilled over the last 24 hrs		Calculated over the bit run	
3 x14	METERAGE (m) :	368	CUM.METERAGE (m)	416
x	ON BOTTOM HRS :	14.2	CUM. ON BOT. HRS :	16.2
x	IADC DRILL. HRS :	23.8	CUM.IADC DRILL HRS:	27.5
x	TOTAL REVS :	106,500	CUM.TOT. REVS :	121,500
x	ROP (m/hr):	15.5	ROP (m/hr):	15.1

BHA # 5 Length (ft) :92.1

WT BLW JAR(k-lbs):	10	STRING WT(k-lbs) :	60	TRQE MAX (ft-lbs):	7,000	D.C. (1) ANN. VELOCITY (mpm):	0
BHA WT(k-lbs) :	12	PICK UP WT(k-lbs) :	60	TRQE ON (ft-lbs):	4,000	D.C. (2) ANN VELOCITY (mpm):	0
		SLK 0FF WT(k-lbs) :	50	TRQE OFF (ft-lbs):	4,000	H.W.D.P. ANN VELOCITY (mpm):	96
						D.P. ANN VELOCITY (mpm) :	96

BHA DESCRIPTION : 8.5 Bit,6.75 Motor,FEWD,Float sub,3xHWDP,Jars,3xHWDP

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT
PM (Survey tool)	26.0	DMO-1540M6	FEWD Component
DGR (Logging tool)	26.0	DM-1537HNRCG 16	FEWD Component
Pulser	26.0	DMO-1528K6	FEWD Component
Jar	26.0	DAH-2122	

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
1,226	672	91.73	238.	238.9	734.3	2.40	404.0	613.4	
1,257	672	89.30	236.	236.9	764.8	3.10	420.2	639.2	
1,285	672	90.07	235.	235.5	793.2	1.70	436.0	662.8	
1,314	673	89.29	235.	235.9	822.3	0.90	452.4	686.8	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	1626			1626
Bentonite	SX	1662			1662
G-neat	SX	1449			1449
G+35% SiFl	SX	0			0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98			98
Drill Water	M3	718	92		626
Heli-fuel	ltr	5840			5840
Base Oil	M3				0
Rig Fuel	M3	343	11		333
Brine	M3				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00	70	97	202	2475	30	300	1265	9.7
2	National	6.00	70	97	202	2475	40	400	1265	9.7
3	National	6.00	70	97	202	2475	50	500	1265	9.7

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	866.1 866.1	680.0 680.0		1.41 1.41	Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Displaced with 190 bbls, Bumped plug and pressure tested casing to 3,000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
9 5/8" Well head	2.33	8.750	47.0	L-80	New Vam
X / O Joint (NK3SB pin X N-VAM box)	3.17	8.750	47.0	L-80	N-Vam x NK
58 Joints 9 5/8" Casing	746.36	8.750	47.0	L-80	NK 3SB
Float joint	13.05	8.750	47.0	L-80	N-Vam x NK
Intermediate Joint	12.03	8.750	47.0	L-80	New Vam
Shoe Joint	12.50	8.750	47.0	L-80	New Vam

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Personnel : on Site =96

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	R.King	OMV	7
Drilling Supervisor	G.Othen	Service Company	32
Drilling Engineer	H.Heinzle	Diamond Offshore	49
Geologist	Toliday / Boothby	Catering	8

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER Howie / Czarny

SHAKER 1	4 x 120
SHAKER 2	4 x 120
SHAKER 3	4 x 120
SHAKER 4	4 x 84
SHAKER 5	

VOLUME AVAILABLE (bbl) = 1506

ACTIVE	625	MIXING	
HOLE	355	SLUG	
RESERVE	526	HEAVY	

LOSSES (bbl) = 181

DOWNHOLE	
SURF. + EQUIP	148.00
DUMPED	33.00

COMMENTS

Adding Pre-mix to maintain Rheolgy.
Mixed 236 bbls of 1.15 SG Brine.

Anchors

A 1	200	A 2	245	A 3	210	A 4	200	A 5	175
A 6	185	A7	290	A8	295				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	To Gee	414	0	0	187	1188	838	
Pacific Sentinel	On Loc	367		665	137			

Weather

VISIBILITY(nm)	14
WIND SP. (kts)	20.0
WIND DIR (deg)	225
PRES.(mbars)	1029
AIR TEMP (C)	15.0

Rig / Sea Data

RIS.TENS (klbs)	216
VDL (mt)	2,009
WAVES (m)	0.9
SWELL (m)	1.5

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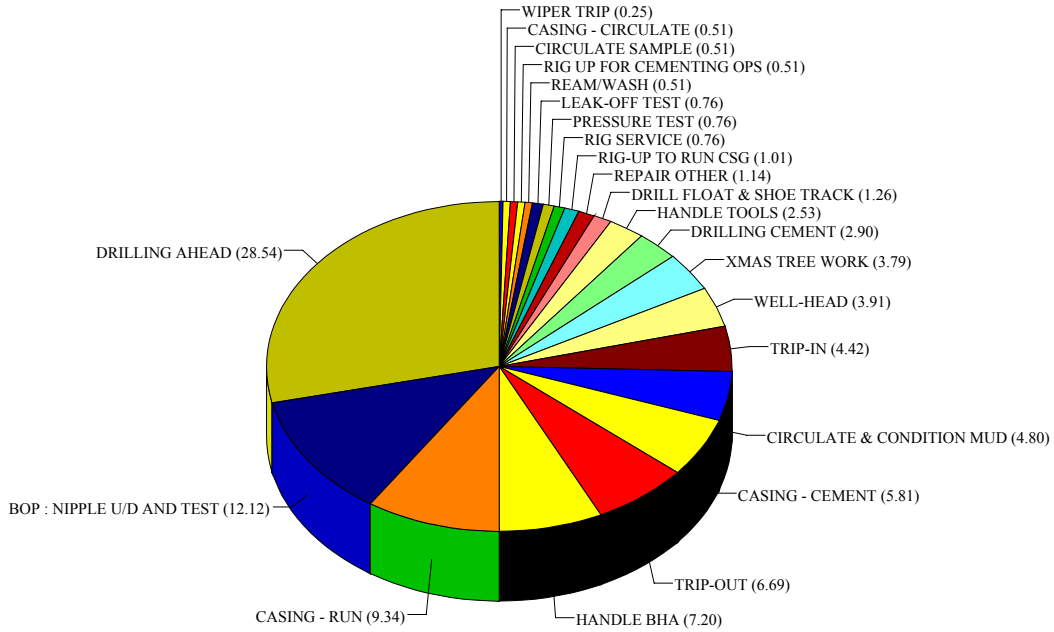
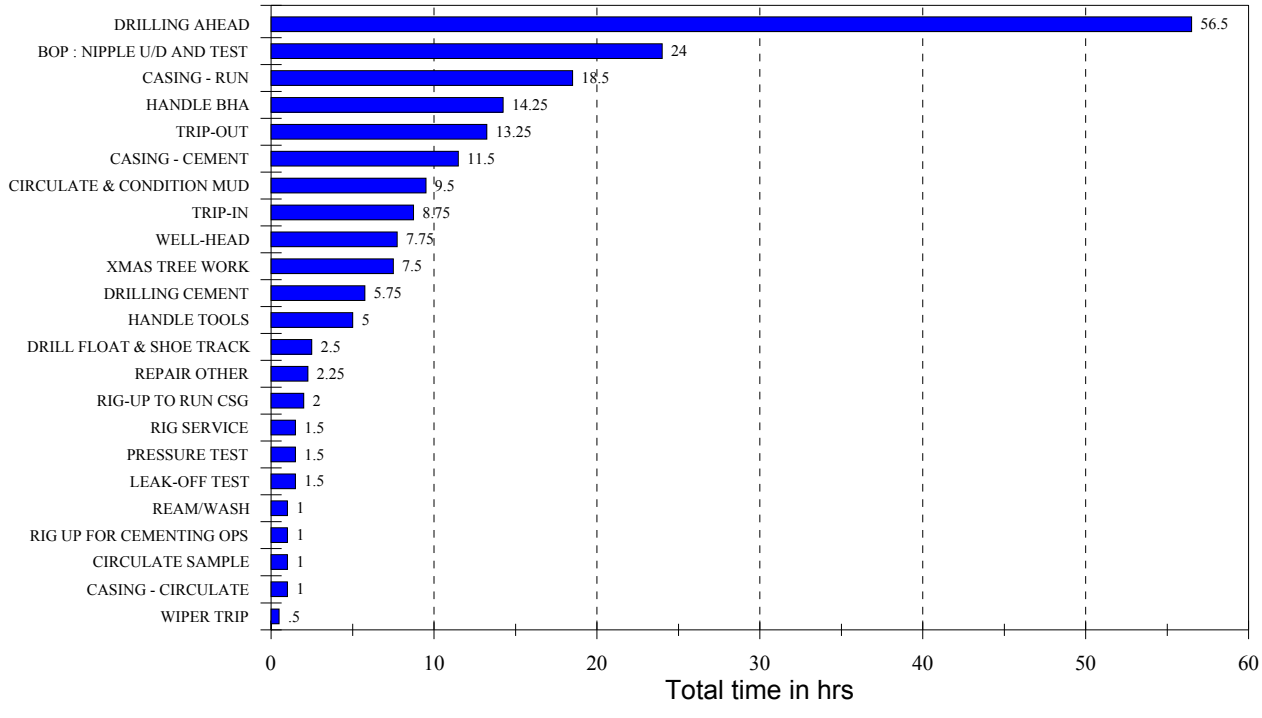
Total move time (hrs)	**22.50**	**Total prod. time since spud (hrs) :**	**198.00**
Total time on well excluding move (hrs)	**228.00**	**Total troub. time since spud (hrs)**	**30.00**
		% Trouble time	**13.16**

Productive Time by Op.



Productive time by Operation



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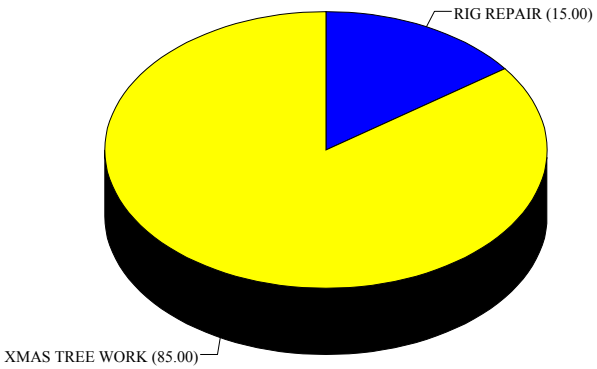
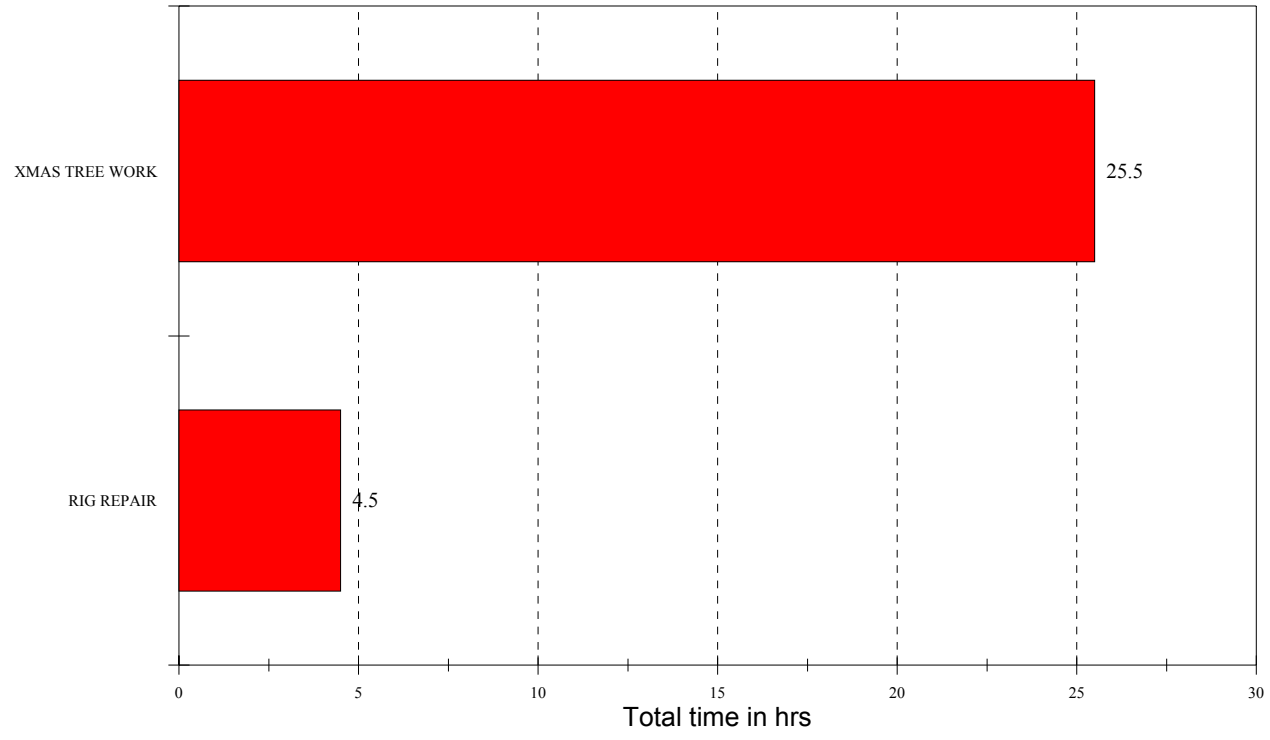
Trouble Time by Op.



NPT by Operation



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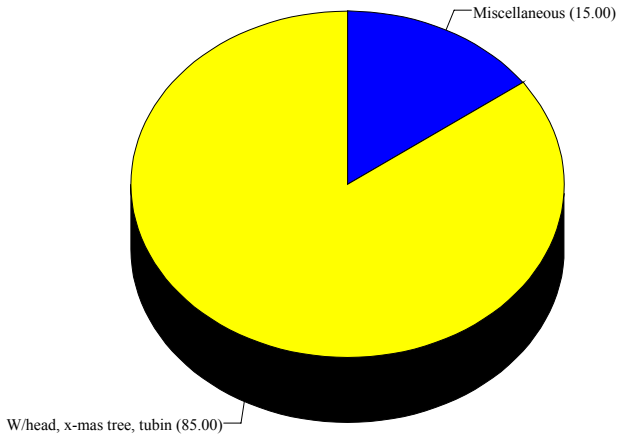
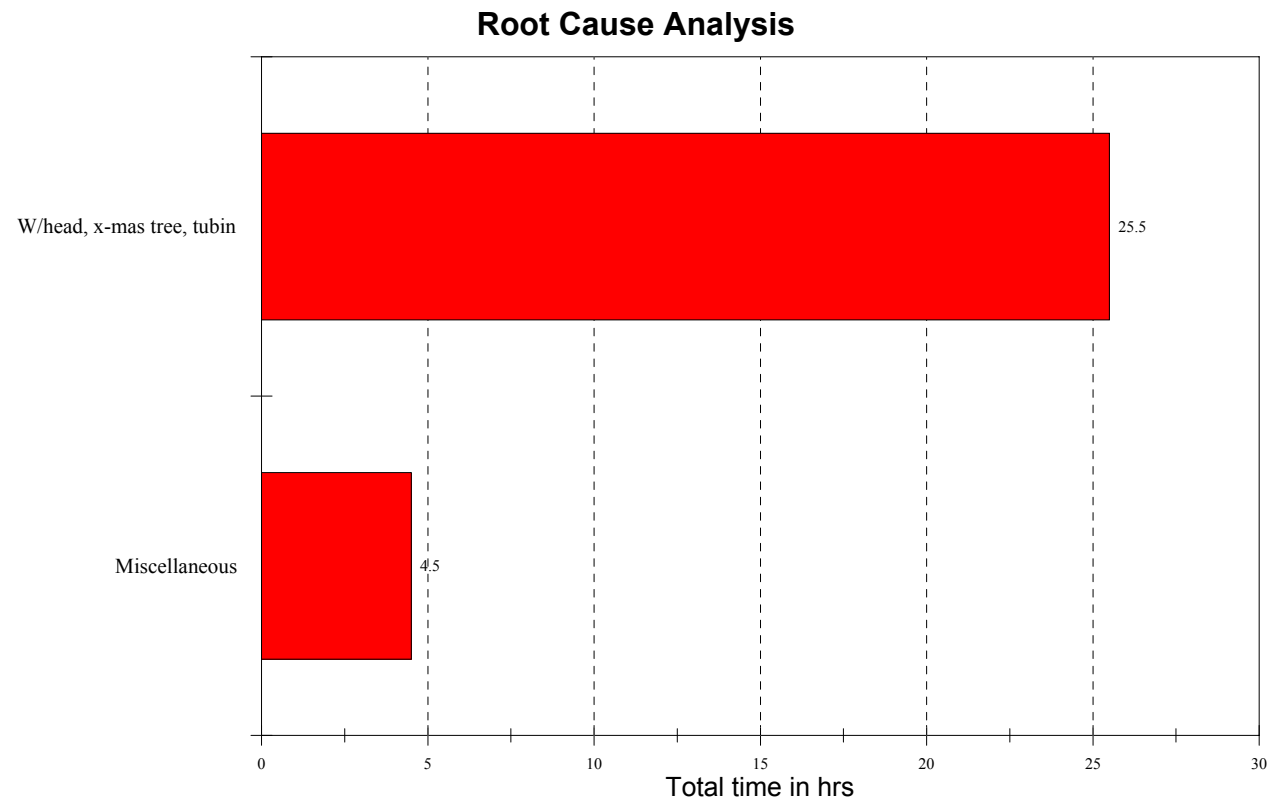
Root Cause Analysis





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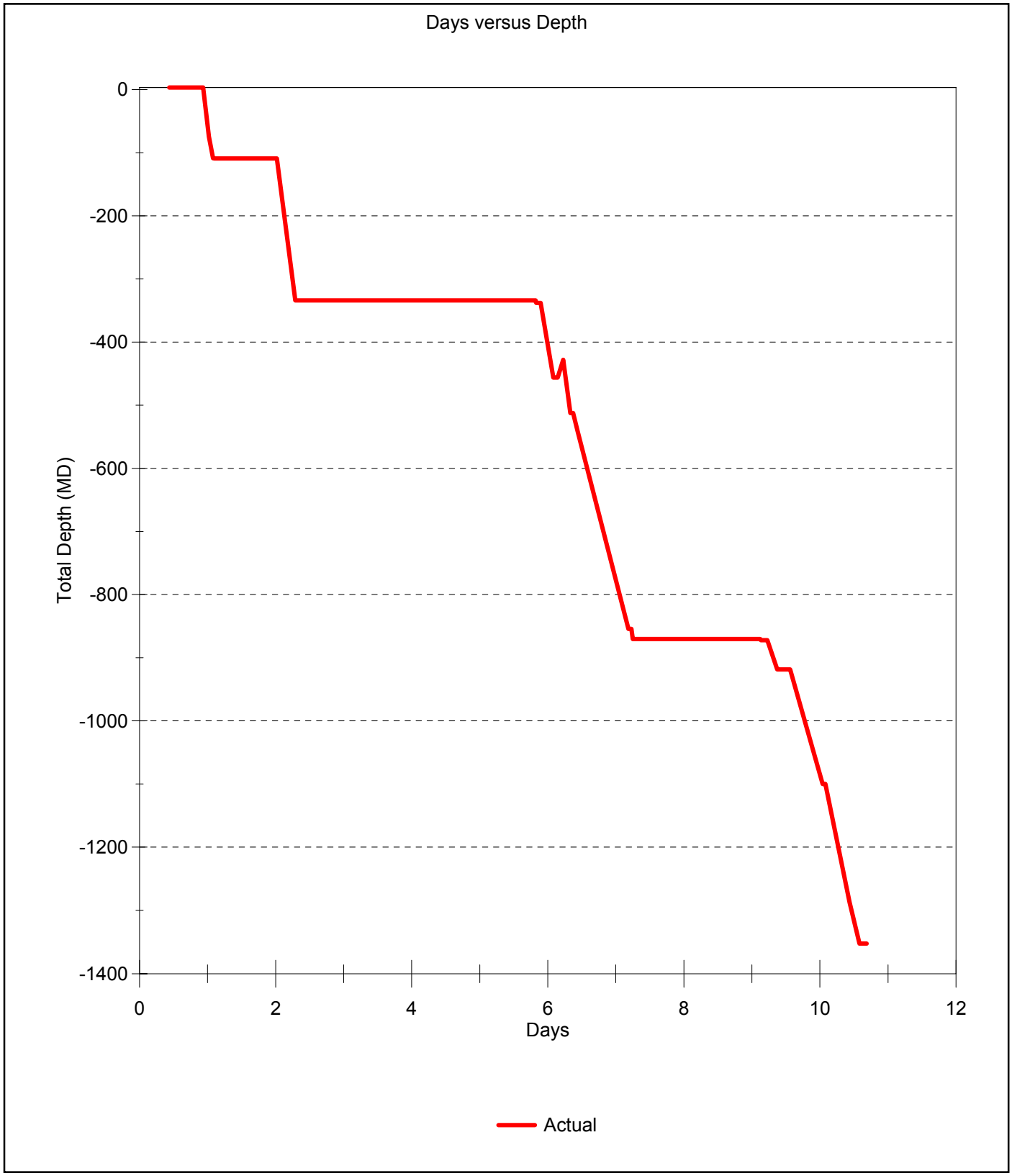
DEPTH @ 24:00 = 1,287.0m after 10.46 days since spud



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OMV

DAILY DRILLING REPORT # 12

DATE Jun 03, 2002

FROM : R. King / G. Othen
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	1,144.0	CUR. HOLE SIZE (")	8.50	AFE COST $	11,825,851
TVD (mBRT)	677.7	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
PROGRESS (m)	-143.0	SHOE TVD (mBRT)	680	DAILY COST :	$361,019.00
DAYS ON WELL	11.46	FIT (sg)	1.41	CUM COST :	$6,661,853.00
DAYS +/- CURVE	0.20	LOT (sg)	0.00		

CURRENT OP @ 0600 Drilling ahead in 8.1/2" hole.
PLANNED OP. Drill 8.1/2" hole to TD.

Summary of period 0000 to 2400 hrs

Continued drilling 8.1/2" hole from 1287m to 1352m section TD. POOH to 1050m. RIH logging at 50m/hr to 1200m. POOH & downloaded FEWD tool. RIH to 1137m & kicked off for sidetrack-1.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 03, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PH	P		DA	00:00	03:30	3.50	1,352	Drilled 8 1/2"Hole F/- 1287m to 1352m (673.33m TVD)
PH	P		CS	03:30	05:00	1.50	1,352	Circulated sample to surface, continued to circulate untill shakers clean.
PH	P		RW	05:00	07:00	2.00	1,352	Backreamed F/- 1352m to 1050m.
PH	U		LOG	07:00	10:30	3.50	1,352	Log hole at 50m/hr from 1050m to 1200m.
PH	U		TO	10:30	14:00	3.50	1,352	Flow checked. POOH F/- 1200m to surface.
PH	U		HBHA	14:00	15:30	1.50	1,352	Downloaded data from FEWD. Checked motor & bit. Confidence tested FEWD. (Serviced TDS)
ST	U		TI	15:30	18:00	2.50	1,165	RIH to 1165m. Broke circulation at shoe.
ST	U		DA	18:00	19:00	1.00	1,137	Attempted to kick off at 1165m with no success. Pulled back to 1137m.
ST	U		RW	19:00	19:30	.50	1,145	Lowsided BHA & cut slot from 1135m to 1145m.
ST	U		DA	19:30	24:00	4.50	1,144	Time drilled F/- 1137m to 1144m. (677.69m TVD)

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 04, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
ST	U		DA	00:00	06:00	6.00	1,267	Drilled 8.5" hole from 1144m to 1267m. (679.84m TVD)

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	33.0	May 26, 2002	May 27, 2002	139.8	5.82	336.0	336.0
INTERMEDIATE HOLE (1)	54.3	May 29, 2002	Jun 01, 2002	194.0	8.08	340.0	871.0
INTERMEDIATE CASING (1)	25.0	May 31, 2002	Jun 01, 2002	219.0	9.13	871.0	871.0
PRODUCTION HOLE (1)	47.0	Jun 01, 2002	Jun 03, 2002	266.0	11.08	873.0	1,352.0
SIDETRACKING	8.5	Jun 03, 2002	Jun 03, 2002	274.5	11.44	1,137.0	1,165.0

WBM Data COST TODAY : $4,899 CUM. WB MUD COST: $212,259 CUM. WBM+OBM COST: $212,259

Type :	**FLO-PRO**	VISCOCITY (sec/qt) :	64	API FLUID LOSS (cm3/30min) :	5	Cl :	84,000	SOLIDS (%vol) :	7
FROM :	FL	PV (cps):	12	FILTER CAKE (32nds inch) :	1	K+C*1000 :		H2O (%vol) :	93.0
TIME :	24:00	YP (lb100sq.ft):	44	HTHPFL (cm3/30min) :		HARD/Ca :	520	OIL (%vol) :	
WEIGHT (sg) :	1.17	GEL10s/10m/100m (lb100sq.ft) :	12 25	HTHP CAKE (32nds inch) :		MBT (ppb) :	5.0	SAND :	TR
TEMP (C) :	50	Fann 3/6/100 :	16 19 37			PM :	.1	PH :	9.5
						PF :	.1	PHPA (ppb) :	

DATE Jun 03, 2002

DAILY DRILLING REPORT # 12

BALEEN # 3

VIC/L21

Bit Data for Bit # 4

IADC # 5 2 7

SIZE (") :	**8.50**
MANUFACTURER :	Reed
TYPE :	EHP-41 ALKDH
SERIAL # :	M-25484
DEPTH IN (m RT) :	871
DEPTH OUT (m RT) :	1144
AVE WOB (k-lbs) :	9
AVE RPM :	125
FLOW (gpm) :	607
PUMP PRESS. (psi):	2,595
HSI (hp/sqi) :	10.134

Wear

I	O1	D	L	B	G	O2	R
1	1	WT	A	E	I	NO	LOG

NOZZLES	
3 x14	
x	
x	
x	
x	

Drilled over the last 24 hrs		Calculated over the bit run	
METERAGE (m) :	65	CUM.METERAGE (m)	481
ON BOTTOM HRS :	2.4	CUM. ON BOT. HRS :	18.6
IADC DRILL. HRS :	3.5	CUM.IADC DRILL HRS:	31.0
TOTAL REVS :	18,000	CUM.TOT. REVS :	139,500
ROP (m/hr):	18.6	ROP (m/hr):	15.5

Bit Data for Bit # 5RR4

IADC # 5 2 7

SIZE (") :	**8.50**
MANUFACTURER :	Reed
TYPE :	EHP 41 ALKDH
SERIAL # :	M25484
DEPTH IN (m RT) :	1137
DEPTH OUT (m RT) :	
AVE WOB (k-lbs) :	11
AVE RPM :	144
FLOW (gpm) :	607
PUMP PRESS. (psi):	2,595
HSI (hp/sqi) :	10.134

Wear

I	O1	D	L	B	G	O2	R

NOZZLES	
3 x14	
x	
x	
x	
x	

Drilled over the last 24 hrs		Calculated over the bit run	
METERAGE (m) :	7	CUM.METERAGE (m)	7
ON BOTTOM HRS :	3.6	CUM. ON BOT. HRS :	3.6
IADC DRILL. HRS :	4.5	CUM.IADC DRILL HRS:	4.5
TOTAL REVS :	31,104	CUM.TOT. REVS :	31,104
ROP (m/hr):	1.6	ROP (m/hr):	1.6

BHA # 5 Length (ft) :92.1

WT BLW JAR(k-lbs):	10	STRING WT(k-lbs) :	50	TRQE MAX (ft-lbs):	7,000	D.C. (1) ANN. VELOCITY (mpm):	0
BHA WT(k-lbs) :	12	PICK UP WT(k-lbs) :	55	TRQE ON (ft-lbs):	4,000	D.C. (2) ANN VELOCITY (mpm):	0
		SLK 0FF WT(k-lbs) :	50	TRQE OFF (ft-lbs):	4,000	H.W.D.P. ANN VELOCITY (mpm):	96
						D.P. ANN VELOCITY (mpm) :	96

BHA DESCRIPTION : 8.5 Bit,6.75 Motor,FEWD,Float sub,3xHWDP,Jars,3xHWDP

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT
PM (Survey tool)	43.0	DMO-1540M6	FEWD Component
DGR (Logging tool)	43.0	DM-1537HNRCG16	FEWD Component
Pulser	43.0	DMO-1528K6	FEWD Component
Jar	43.0	DAH-2122	

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
1,226	672	91.73	238.	238.9	734.3	2.40	404.0	613.4	
1,257	672	89.30	236.	236.9	764.8	3.10	420.2	639.2	
1,285	672	90.07	235.	235.5	793.2	1.70	436.0	662.8	
1,314	673	89.29	235.	235.9	822.3	0.90	452.4	686.8	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	1626			1626
Bentonite	SX	1662			1662
G-neat	SX	1449			1449
G+35% SiFl	SX	0			0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	25	25	98
Drill Water	M3	626	33	46	639
Heli-fuel	ltr	5840	382		5458
Base Oil	M3				0
Rig Fuel	M3	333	13		319
Brine	M3				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00	47	97	203	2595	30	300	1265	9.7
2	National	6.00	47	97	202	2595	40	400	1265	9.7
3	National	6.00	47	97	202	2595	50	500	1265	9.7

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Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	866.1 866.1	680.0 680.0		1.41 1.41	Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Displaced with 190 bbls, Bumped plug and pressure tested casing to 3,000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
9 5/8" Well head	2.33	8.750	47.0	L-80	New Vam
X / O Joint (NK3SB pin X N-VAM box)	3.17	8.750	47.0	L-80	N-Vam x NK
58 Joints 9 5/8" Casing	746.36	8.750	47.0	L-80	NK 3SB
Float joint	13.05	8.750	47.0	L-80	N-Vam x NK
Intermediate Joint	12.03	8.750	47.0	L-80	New Vam
Shoe Joint	12.50	8.750	47.0	L-80	New Vam

Personnel : on Site =97

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	R.King	OMV	8
Drilling Supervisor	G.Othen, J. Kenrick	Service Company	32
Drilling Engineer	H.Heinzle	Diamond Offshore	49
Geologist	Toliday / Boothby	Catering	8

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER Howie / Czarny

SHAKER 1	4 x 120
SHAKER 2	4 x 120
SHAKER 3	4 x 120
SHAKER 4	4 x 84
SHAKER 5	

VOLUME AVAILABLE (bbl) = 1461

ACTIVE	645	MIXING	
HOLE	325	SLUG	
RESERVE	491	HEAVY	

LOSSES (bbl) = 96

DOWNHOLE	
SURF. + EQUIP	96.00
DUMPED	0.00

COMMENTS

Added 1.08SG KCL dilution to control mud weight.

Anchors

A 1	205	A 2	245	A 3	205	A 4	195	A 5	170
A 6	180	A7	290	A8	295				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	Geelon	414	0	0	187	1188	838	
Pacific Sentinel	On Loc	362		619	134			

Weather

VISIBILITY(nm)	14
WIND SP. (kts)	15.0
WIND DIR (deg)	225
PRES.(mbars)	1027
AIR TEMP (C)	15.0

Rig / Sea Data

RIS.TENS (klbs)	216
VDL (mt)	2,031
WAVES (m)	0.3
SWELL (m)	1.5

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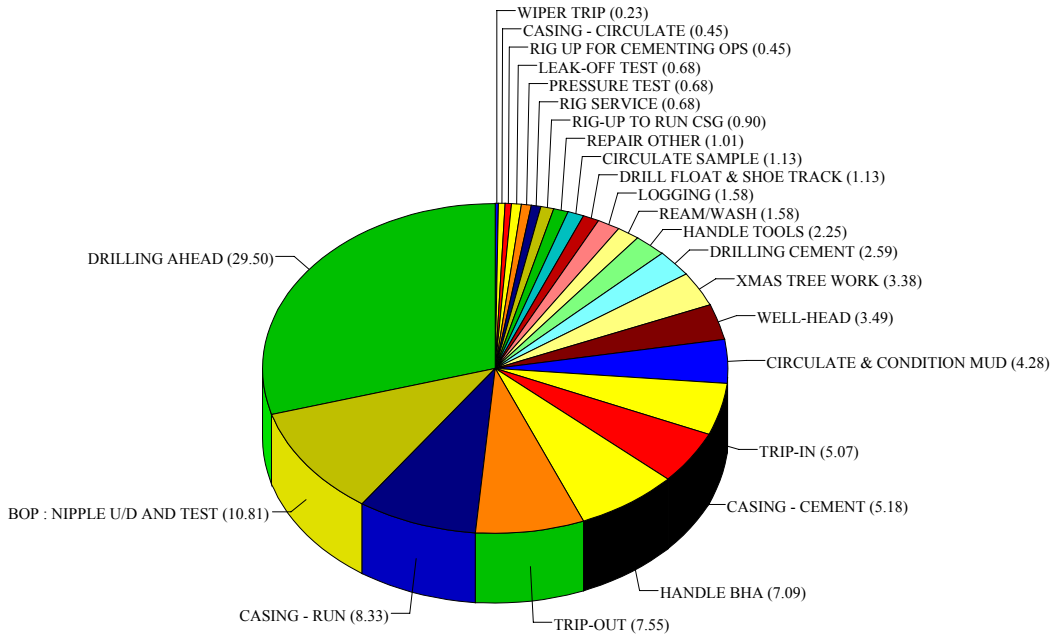
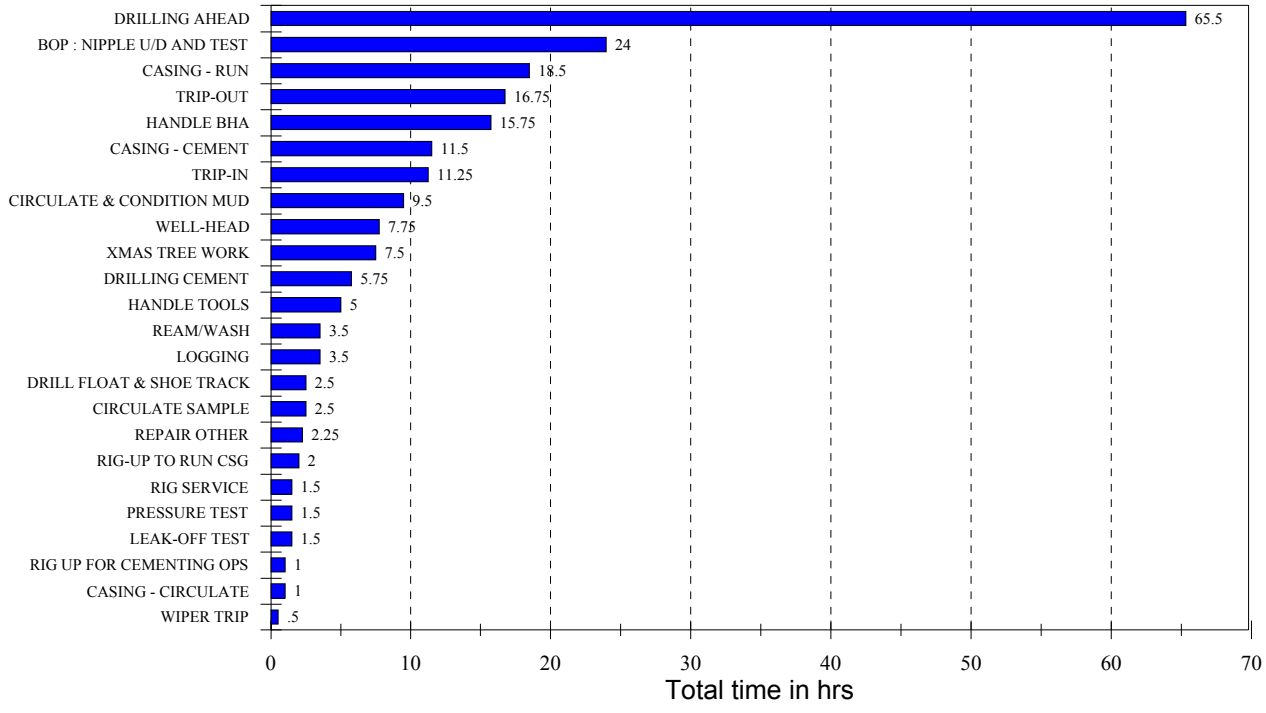
Total move time (hrs)	**22.50**	**Total prod. time since spud (hrs) :**	**222.00**
Total time on well excluding move (hrs)	**252.00**	**Total troub. time since spud (hrs)**	**30.00**
		% Trouble time	**11.90**

Productive Time by Op.



Productive time by Operation



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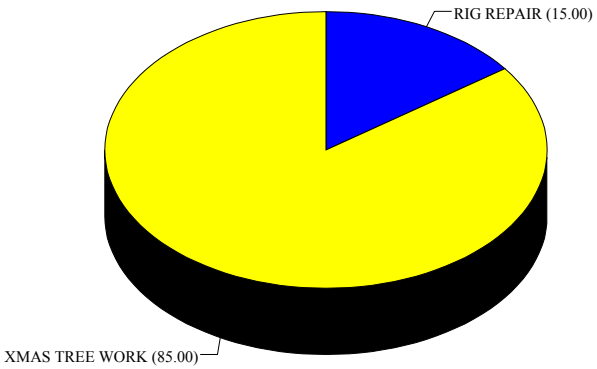
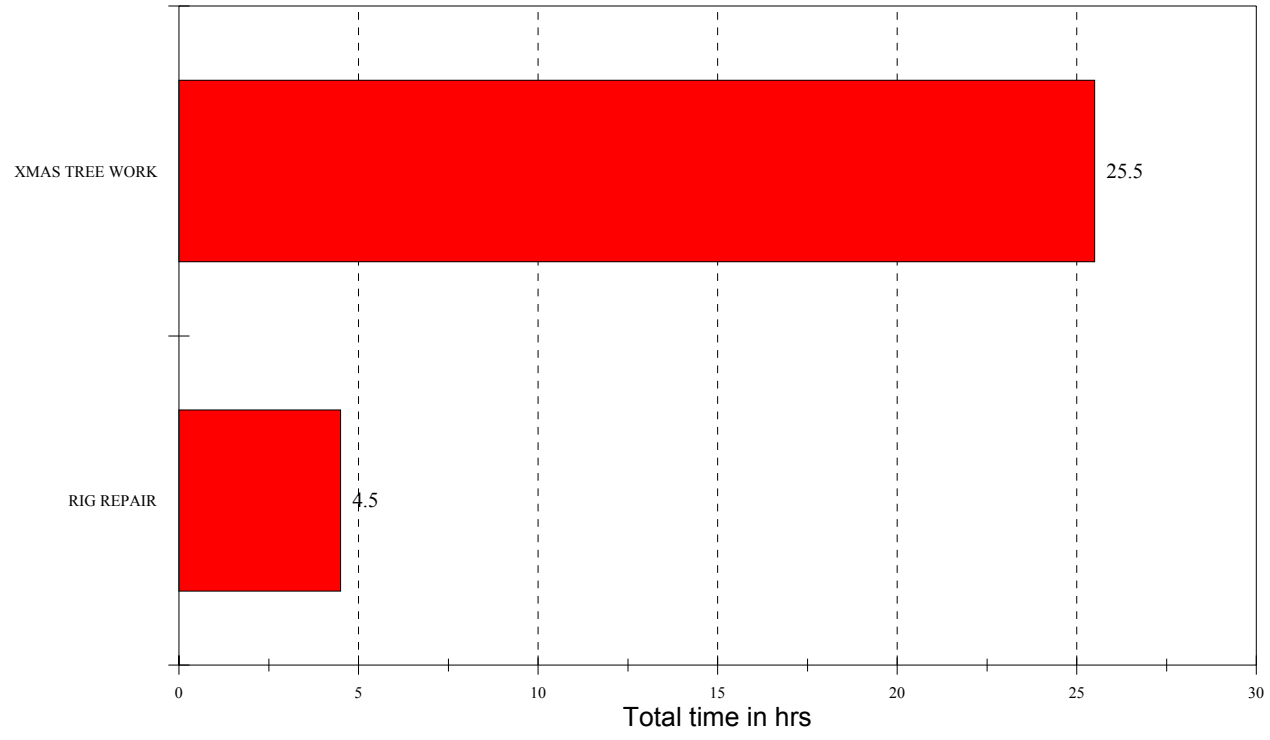
Trouble Time by Op.



NPT by Operation



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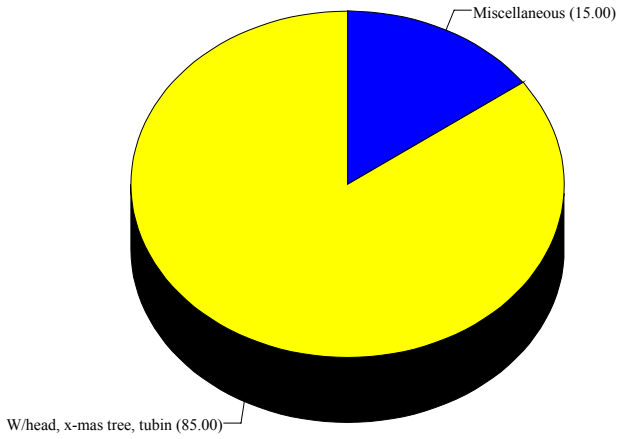
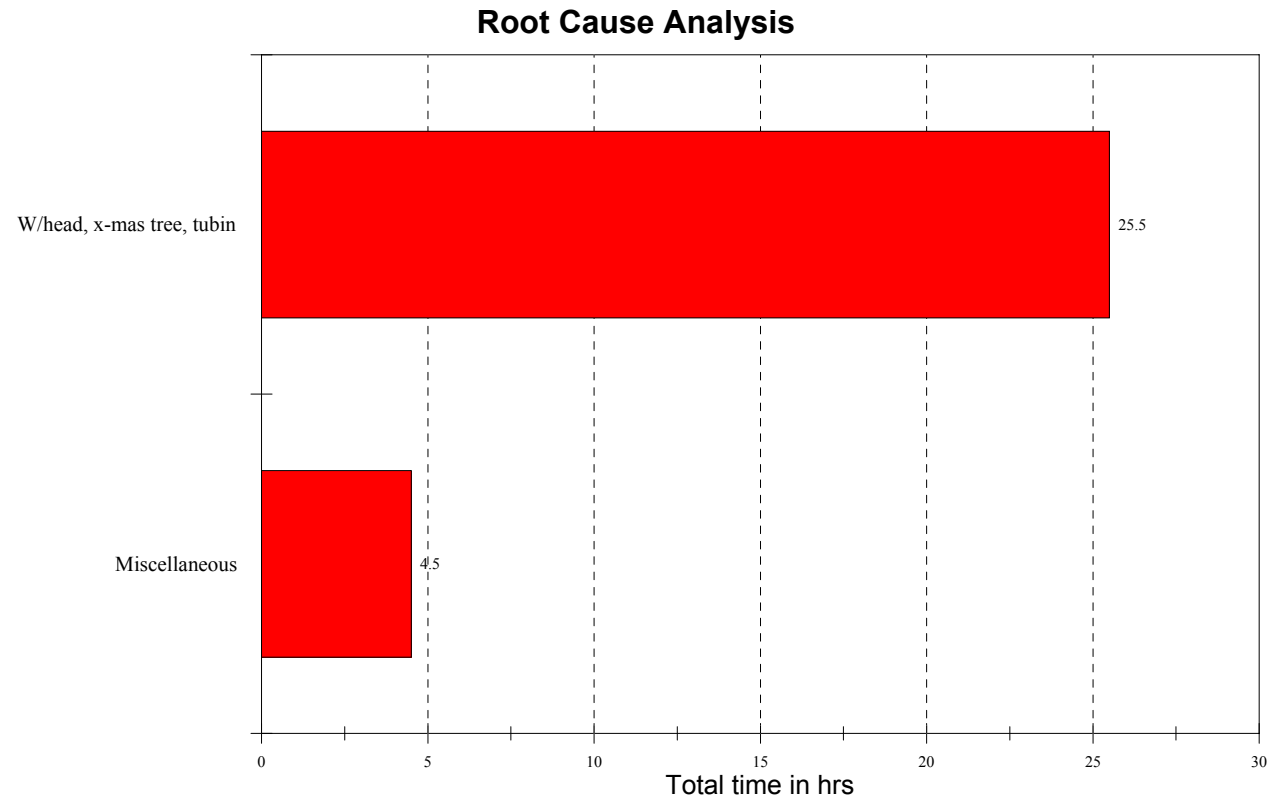
Root Cause Analysis





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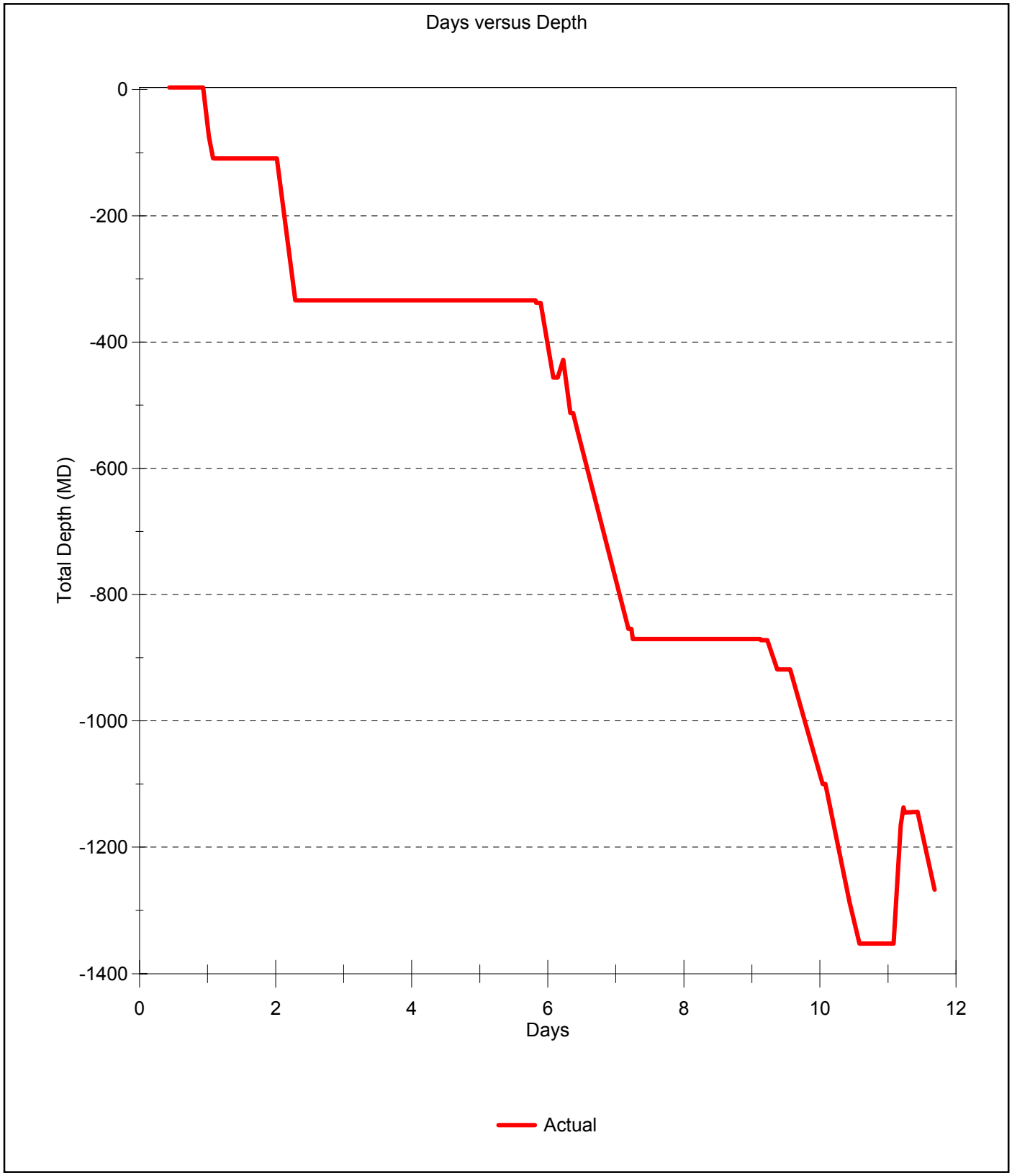
DEPTH @ 24:00 = 1,144.0m after 11.46 days since spud



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OMV

DAILY DRILLING REPORT # 13

DATE Jun 04, 2002

FROM : R. King / J. Kenrick
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	1,555.0	CUR. HOLE SIZE (")	8.50	AFE COST $	11,825,851
TVD (mBRT)	710.4	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
PROGRESS (m)	411.0	SHOE TVD (mBRT)	680	DAILY COST :	$464,270.00
DAYS ON WELL	12.46	FIT (sg)	1.41	CUM COST :	$7,126,123.00
DAYS +/- CURVE	1.20	LOT (sg)	0.00		

CURRENT OP @ 0600 Pulling out of hole.
PLANNED OP. Pull out of hole to run liner.

Summary of period 0000 to 2400 hrs

Drilled 8.1/2" hole from 1144m to 1555m TD. Circulated clean & flow checked. Pumped & rotated out of hole from 1555m to 1100m. Pulled out of hole from 1100m to 1027m.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 04, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
ST	U		DA	00:00	21:00	21.00	1,555	Drilled 8.5" hole from 1144m to 1555m TD. (710.37m TVD)
PH	P		CMD	21:00	21:30	.50	1,555	Rotated & reciprocated drill string whilst circulating clean.
PH	P		RW	21:30	24:00	2.50	1,555	Flow checked. Pumped & rotated out of hole from 1555m to 1100m. Pulled out of hole from 1100m to 1027m.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 05, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PH	P		TO	00:00	00:30	.50	1,555	Pulled out of hole from 1027m to 840m.
PH	P		TI	00:30	02:00	1.50	1,555	Ran in hole from 840m to 1555m.
PH	P		CMD	02:00	03:00	1.00	1,555	Rotated & reciprocated drill string whilst circulating clean.
PH	P		CMD	03:00	03:30	.50	1,555	Pumped & spotted Flo Pro SF from 1555m to 720m, flow checked.
PH	P		TO	03:30	06:00	2.50	1,555	Pulled out of hole from 1555m to 932m.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	33.0	May 26, 2002	May 27, 2002	139.8	5.82	336.0	336.0
INTERMEDIATE HOLE (1)	54.3	May 29, 2002	Jun 01, 2002	194.0	8.08	340.0	871.0
INTERMEDIATE CASING (1)	25.0	May 31, 2002	Jun 01, 2002	219.0	9.13	871.0	871.0
PRODUCTION HOLE (1)	50.0	Jun 01, 2002	Jun 04, 2002	269.0	11.21	873.0	1,555.0
SIDETRACKING	29.5	Jun 03, 2002	Jun 04, 2002	298.5	12.44	1,137.0	1,555.0

WBM Data

COST TODAY : $38,093 CUM. WB MUD COST: $250,352 CUM. WBM+OBM COST: $250,352

Type : FLO-PRO

FROM :	FL	VISCOCITY (sec/qt) :	59	API FLUID LOSS (cm3/30min) :	5	Cl :	90,000	SOLIDS (%vol) :	7
TIME :	20:30	PV (cps):	15	FILTER CAKE (32nds inch) :	1	K+C*1000 :		H2O (%vol) :	93.0
WEIGHT (sg) :	1.22	YP (lb100sq.ft):	39	HTHPFL (cm3/30min) :		HARD/Ca :	800	OIL (%vol) :	
TEMP (C) :	50	GEL10s/10m/100m (lb100sq.ft) :	17 25	HTHP CAKE (32nds inch) :	1	MBT (ppb) :	7.5	SAND :	TR
		Fann 3/6/100 :	17 19 37			PM :	.1	PH :	9.0
						PF :	.1	PHPA (ppb) :	

COMMENT: Dumped 120bbls & added dilution pill to reduce mud weight. Mixed clean up pills.

Bit Data for Bit # 4

IADC # 4 1 7

SIZE (") :	**8.50**		
MANUFACTURER :	Reed	AVE WOB (k-lbs) :	9
TYPE :	EHP-41 ALKDH	AVE RPM :	125
SERIAL # :	M-25484	FLOW (gpm) :	607
DEPTH IN (m RT) :	871	PUMP PRESS. (psi):	2,595
DEPTH OUT (m RT) :	1144	HSI (hp/sqi) :	10.134

Wear

I	O1	D	L	B	G	O2	R
1	1	WT	A	E	I	NO	LOG

NOZZLES
3 x14
x
x
x
x

Drilled over the last 24 hrs		Calculated over the bit run	
METERAGE (m) :	0	CUM.METERAGE (m)	481
ON BOTTOM HRS :	.0	CUM. ON BOT. HRS :	18.6
IADC DRILL. HRS :	.0	CUM.IADC DRILL HRS:	31.0
TOTAL REVS :	0	CUM.TOT. REVS :	139,500
ROP (m/hr):		ROP (m/hr):	15.5

Bit Data for Bit # 5RR4

IADC # 4 1 7

SIZE (") :	**8.50**
MANUFACTURER :	Reed
TYPE :	EHP 41 ALKDH
SERIAL # :	M25484
DEPTH IN (m RT) :	1137
DEPTH OUT (m RT) :	
AVE WOB (k-lbs) :	11
AVE RPM :	144
FLOW (gpm) :	609
PUMP PRESS. (psi):	2,466
HSI (hp/sqi) :	10.672

Wear

I	O1	D	L	B	G	O2	R

NOZZLES
3 x14
x
x
x
x

Drilled over the last 24 hrs		Calculated over the bit run	
METERAGE (m) :	418	CUM.METERAGE (m)	425
ON BOTTOM HRS :	20.8	CUM. ON BOT. HRS :	24.4
IADC DRILL. HRS :	22.8	CUM.IADC DRILL HRS:	27.3
TOTAL REVS :	179,280	CUM.TOT. REVS :	210,384
ROP (m/hr):	18.3	ROP (m/hr):	15.6

BHA # 5 Length (ft) :92.1

WT BLW JAR(k-lbs):	10	STRING WT(k-lbs) :	56	TRQE MAX (ft-lbs):	7,000	D.C. (1) ANN. VELOCITY (mpm):	0
BHA WT(k-lbs) :	12	PICK UP WT(k-lbs) :	59	TRQE ON (ft-lbs):	4,000	D.C. (2) ANN VELOCITY (mpm):	0
		SLK 0FF WT(k-lbs) :	50	TRQE OFF (ft-lbs):	4,000	H.W.D.P. ANN VELOCITY (mpm):	96
						D.P. ANN VELOCITY (mpm) :	96

BHA DESCRIPTION : 8.5 Bit,6.75 Motor,FEWD,Float sub,3xHWDP,Jars,3xHWDP

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT
PM (Survey tool)	63.8	DMO-1540M6	FEWD Component
DGR (Logging tool)	63.8	DM-1537HNRCG16	FEWD Component
Pulser	63.8	DMO-1528K6	FEWD Component
Jar	63.8	DAH-2122	

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
1,460	712	85.35	232.	232.0	332.8	3.99	-181.6	-279.1	
1,489	714	89.87	231.	231.9	361.6	4.68	-199.4	-301.9	
1,517	713	93.80	232.	232.1	389.8	4.16	-216.9	-324.2	
1,546	710	95.32	232.	232.2	418.7	1.57	-234.7	-347.2	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	1626			1626
Bentonite	SX	1662			1662
G-neat	SX	1449			1449
G+35% SiFl	SX	0			0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	25	25	98
Drill Water	M3	639	167		472
Heli-fuel	ltr	5458	534		4924
Base Oil	M3				0
Rig Fuel	M3	319			319
Brine	M3				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00	47	97	203	2466	30	250	1381	10.2
2	National	6.00	47	97	202	2466	40	370	1381	10.2
3	National	6.00	48	97	202	2466	50	425	1381	10.2

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	866.1 866.1	680.0 680.0		1.41 1.41	Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Displaced with 190 bbls, Bumped plug and pressure tested casing to 3,000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
9 5/8" Well head	2.33	8.750	47.0	L-80	New Vam
X / O Joint (NK3SB pin X N-VAM box)	3.17	8.750	47.0	L-80	N-Vam x NK
58 Joints 9 5/8" Casing	746.36	8.750	47.0	L-80	NK 3SB
Float joint	13.05	8.750	47.0	L-80	N-Vam x NK
Intermediate Joint	12.03	8.750	47.0	L-80	New Vam
Shoe Joint	12.50	8.750	47.0	L-80	New Vam

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DATE Jun 04, 2002

DAILY DRILLING REPORT # 13

BALEEN # 3

VIC/L21

Personnel : on Site =97

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	R.King	OMV	7
Drilling Supervisor	J. Kenrick	Service Company	34
Drilling Engineer	H.Heinzle	Diamond Offshore	48
Geologist	Toliday / Boothby	Catering	8

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER Czarny

SHAKER 1	4 x 120
SHAKER 2	4 x 120
SHAKER 3	4 x 120
SHAKER 4	4 x 145
SHAKER 5	

VOLUME AVAILABLE (bbl) = 1915

ACTIVE	773	MIXING	
HOLE	411	SLUG	
RESERVE	731	HEAVY	

LOSSES (bbl) = 250

DOWNHOLE	
SURF. + EQUIP	45.00
DUMPED	205.00

COMMENTS

Added 1.08SG KCL dilution to control mud weight.

Anchors

A 1	205	A 2	245	A 3	205	A 4	195	A 5	175
A 6	180	A7	290	A8	295				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	Geelon	414	0	0	187	1188	838	
Pacific Sentinel	On Loc	357		619	131			

Weather

VISIBILITY(nm)	16
WIND SP. (kts)	.0
WIND DIR (deg)	Var
PRES.(mbars)	1024
AIR TEMP (C)	14.0

Rig / Sea Data

RIS.TENS (klbs)	216
VDL (mt)	2,120
WAVES (m)	0.3
SWELL (m)	0.6

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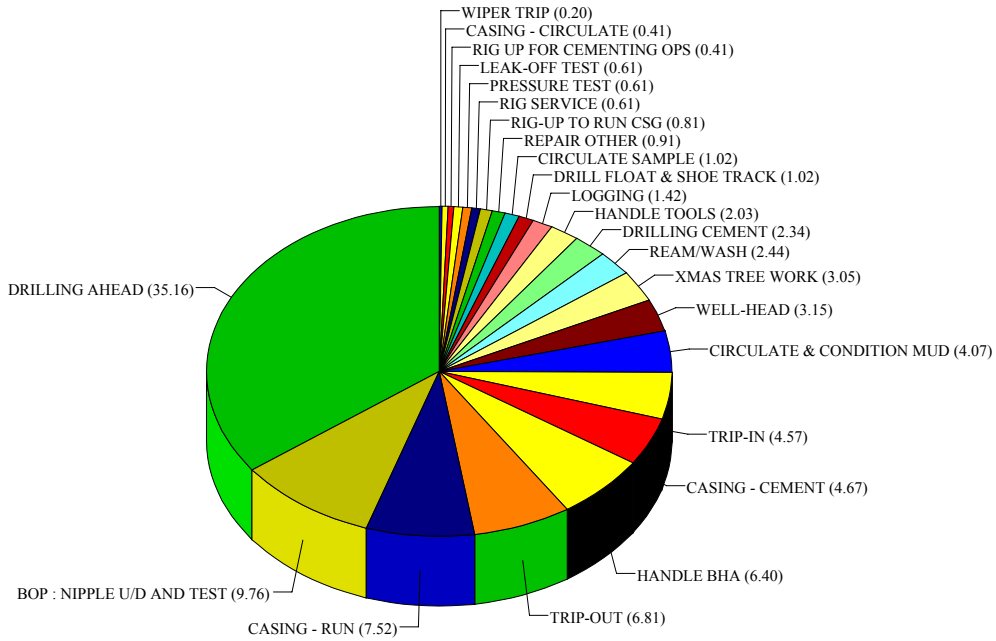
Total move time (hrs)	22.50	Total prod. time since spud (hrs) :	246.00
Total time on well excluding move (hrs)	276.00	Total troub. time since spud (hrs)	30.00
		% Trouble time	10.87

Productive Time by Op.



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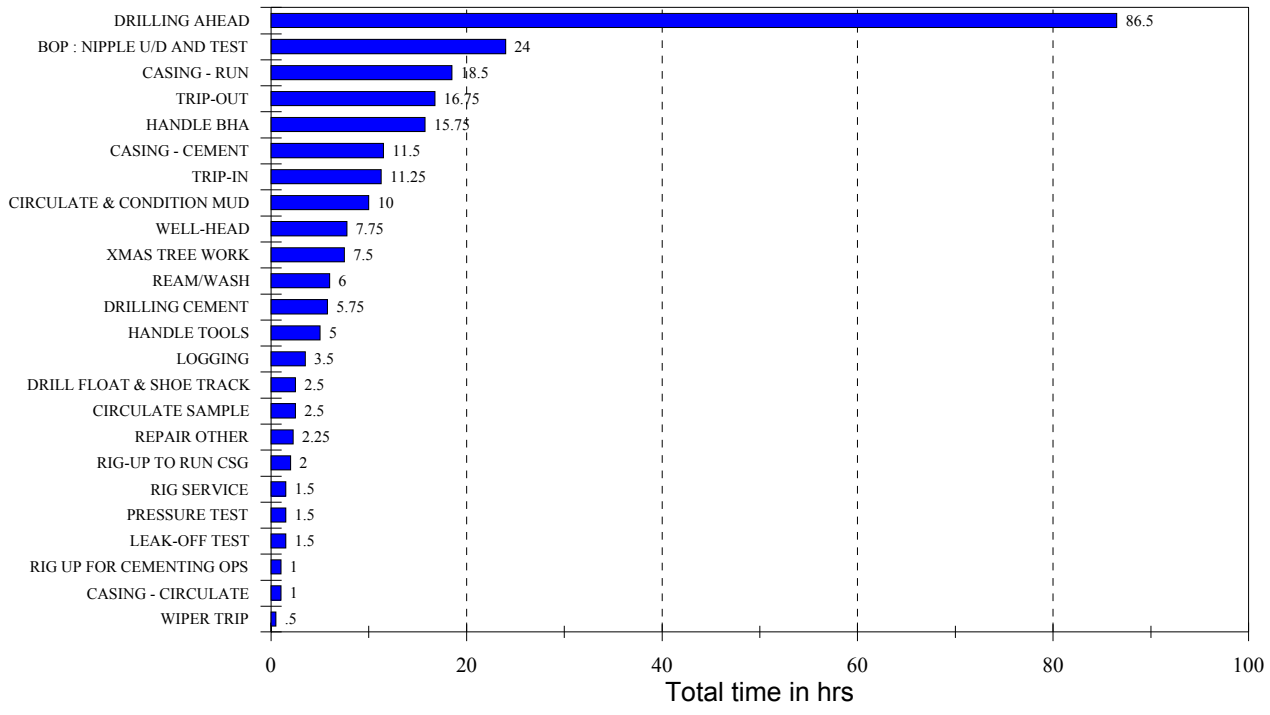

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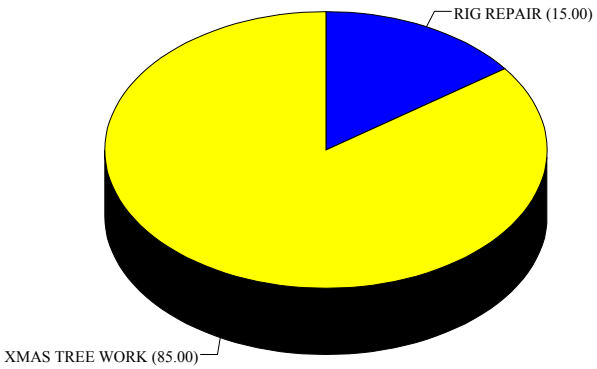
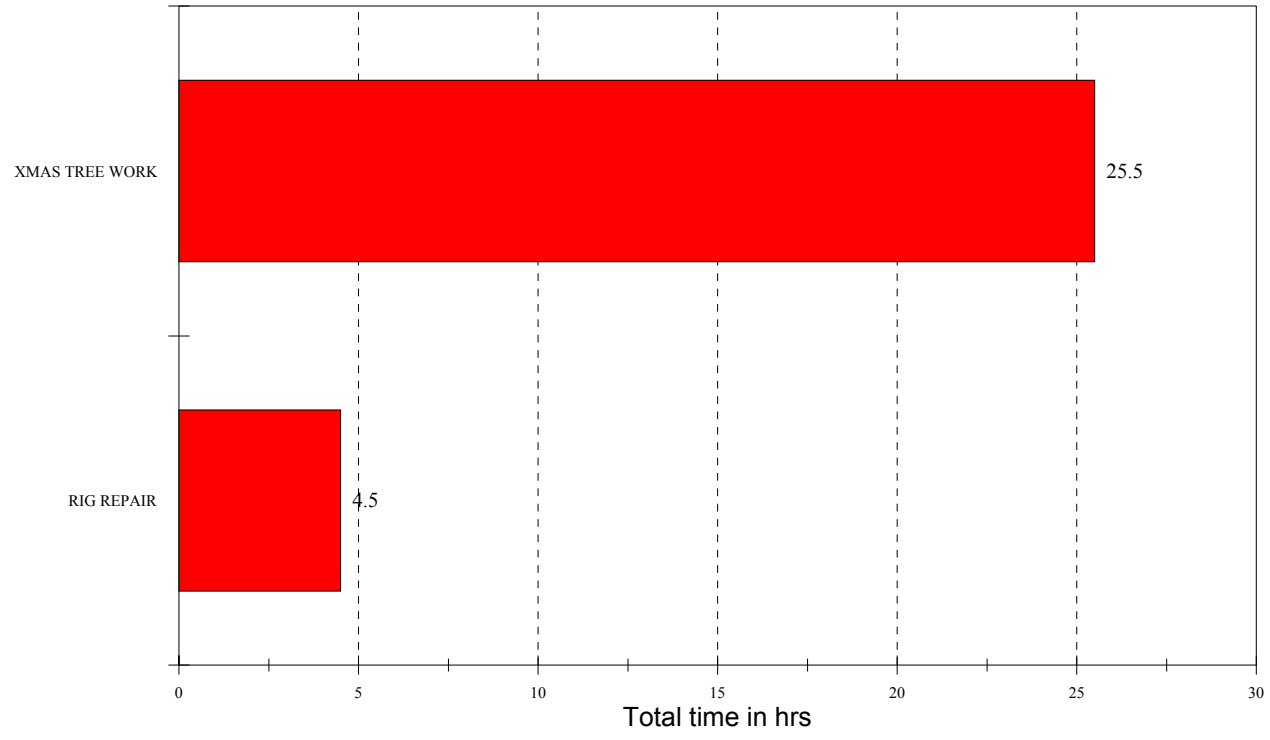
Trouble Time by Op.



NPT by Operation



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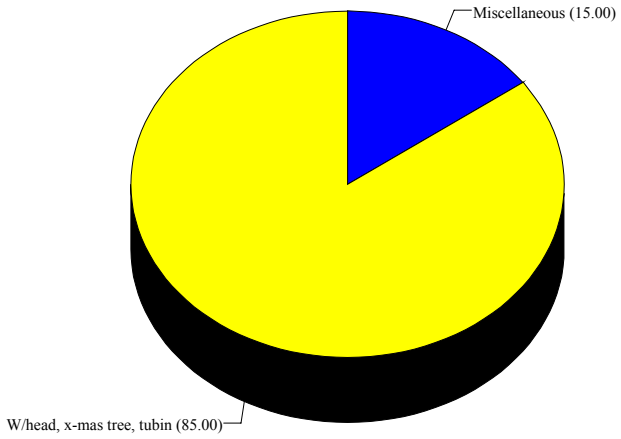
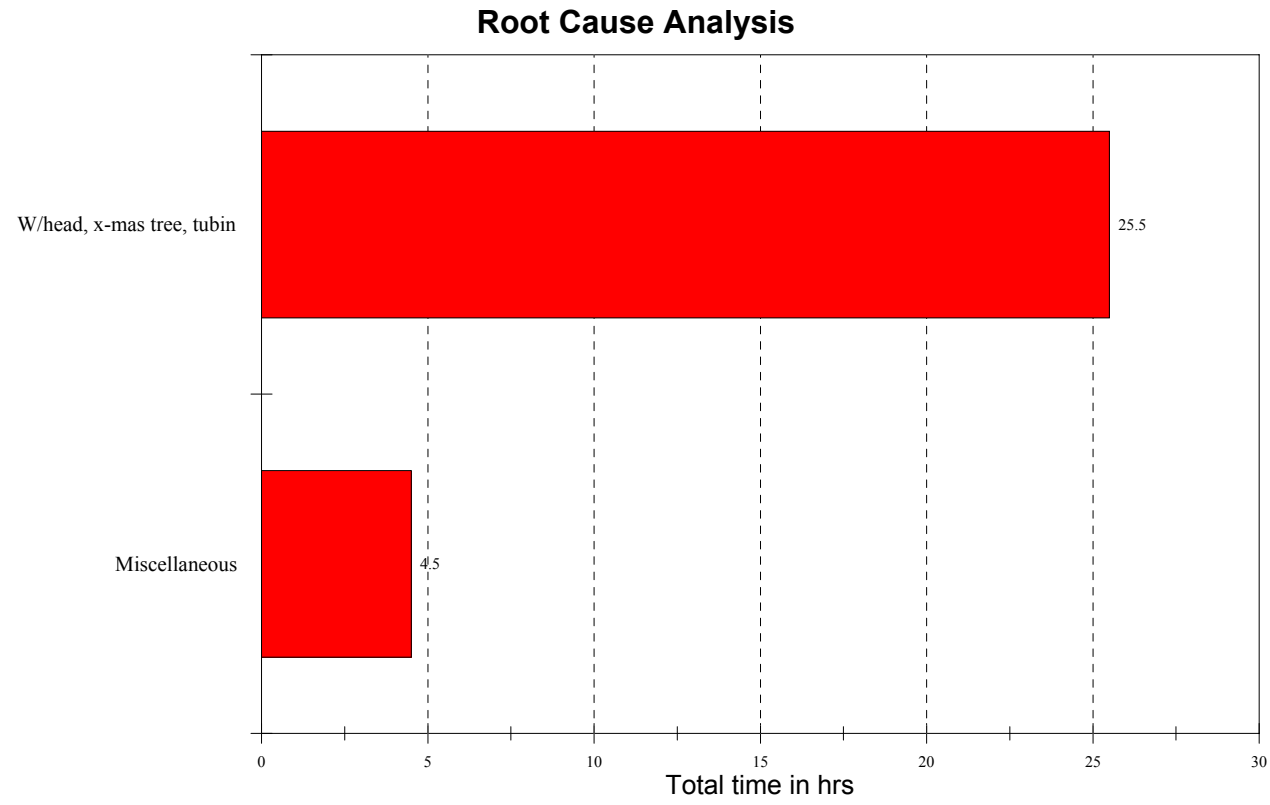
Root Cause Analysis





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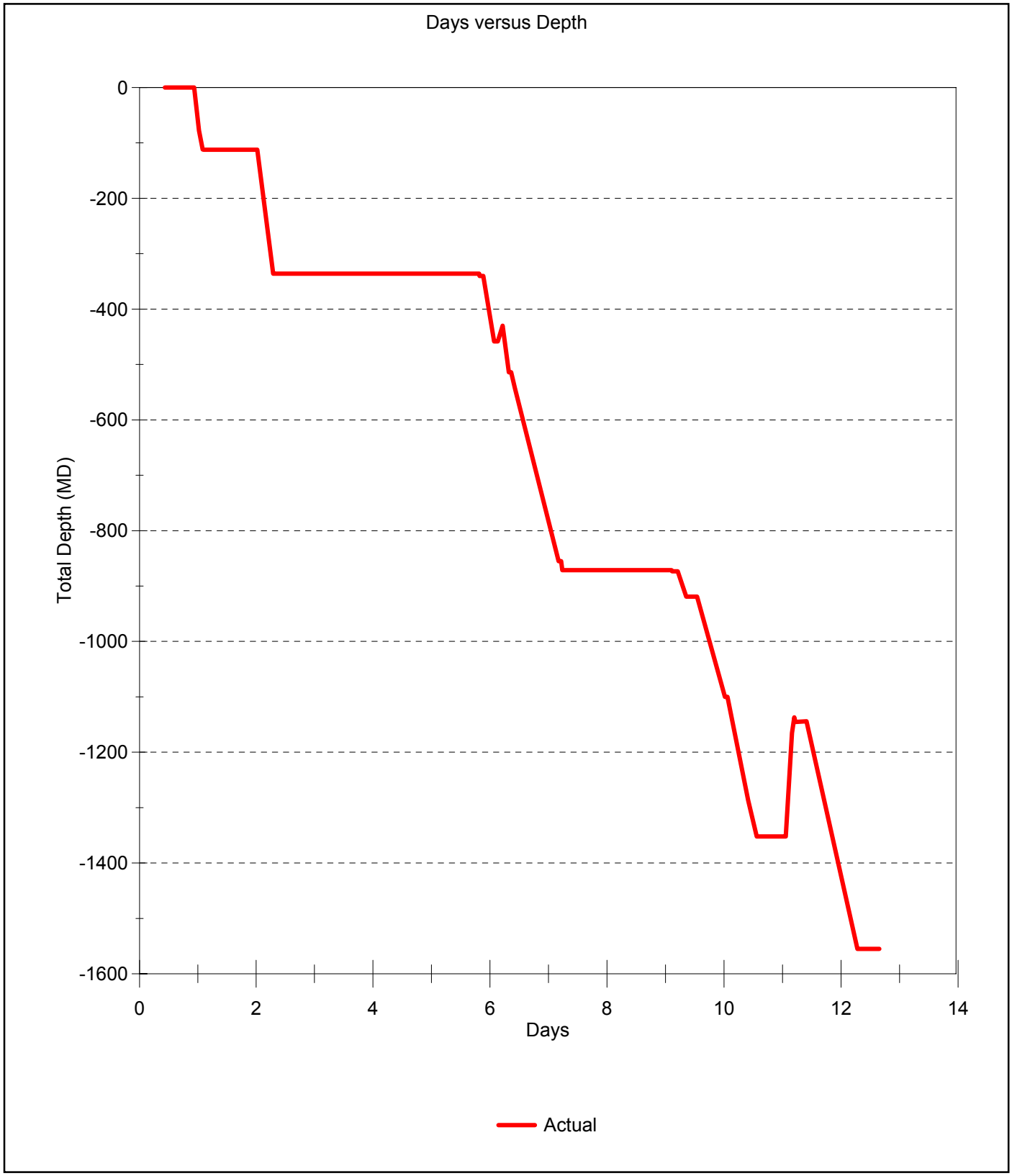
DEPTH @ 24:00 = 1,555.0m after 12.46 days since spud



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OMV

DAILY DRILLING REPORT # 14

DATE Jun 05, 2002

FROM : R. King / J. Kenrick
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	1,555.0	CUR. HOLE SIZE (")	8.50	AFE COST $	11,825,851
TVD (mBRT)	710.4	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
PROGRESS (m)	0.0	SHOE TVD (mBRT)	680	DAILY COST :	$1,524,223.00
DAYS ON WELL	13.46	FIT (sg)	1.41	CUM COST :	$8,650,346.00
DAYS +/- CURVE	1.50	LOT (sg)	0.00		

CURRENT OP @ 0600 Running in hole with sand screen.
PLANNED OP. Set liner hanger & pull out of hole. Run completion.

Summary of period 0000 to 2400 hrs

Pulled out of hole. Ran production liner (sand screens) & inner wash string.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 05, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PH	P		TO	00:00	00:30	.50	1,555	Pulled out of hole from 1027m to 840m.
PH	P		TI	00:30	02:00	1.50	1,555	Ran in hole from 840m to 1555m.
PH	P		CMD	02:00	03:00	1.00	1,555	Rotated & reciprocated drill string whilst circulating clean.
PH	P		CMD	03:00	03:30	.50	1,555	Pumped & spotted Flo Pro SF from 1555m to 720m, flow checked.
PH	P		TO	03:30	06:30	3.00	1,555	Pulled out of hole from 1555m to 760m.
PH	P		CMD	06:30	07:30	1.00	1,555	Pumped pre-wash pill & circulated hole to 1.12SG KCL Brine.
PH	P		TO	07:30	09:30	2.00	1,555	Flow checked. Pulled out of hole from 760m.
PH	P		HBHA	09:30	11:00	1.50	1,555	Laid down drilling jar. Removed RA sources & downloaded FEWD data. Recovered bit & racked back BHA.
PC	P		RRC	11:00	12:00	1.00	1,555	Rigged up to run 6.625" production liner. Held JSA.
PC	P		CRN	12:00	19:00	7.00	1,555	Ran 6.625" production liner (Excluder2000 sand screens) & 5 joints of 7" blank liner.
PC	P		CRN	19:00	19:30	.50	1,555	Rigged up to run 2.875" inner wash string. Held JSA.
PC	P		CRN	19:30	24:00	4.50	1,555	Ran 2.875" inner wash string.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 06, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PC	P		CRN	00:00	03:30	3.50	1,555	Ran 2.875" inner wash string & landed on no go. Spaced out with required pup joints.
PC	P		CRN	03:30	04:30	1.00	1,555	Held JSA. Picked up liner hanger & made up inner wash string.
PC	P		CRN	04:30	05:00	.50	1,555	Rigged down false floor. Made up liner hanger to liner.
PC	P		CRN	05:00	05:30	.50	1,555	Ran in hole with liner on 5" drill pipe to 892m.
PC	P		CMD	05:30	06:00	.50	1,555	Circulated 120bbls 1.12SG filtered brine.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	33.0	May 26, 2002	May 27, 2002	139.8	5.82	336.0	336.0
INTERMEDIATE HOLE (1)	54.3	May 29, 2002	Jun 01, 2002	194.0	8.08	340.0	871.0
INTERMEDIATE CASING (1)	25.0	May 31, 2002	Jun 01, 2002	219.0	9.13	871.0	871.0
PRODUCTION HOLE (1)	61.0	Jun 01, 2002	Jun 05, 2002	280.0	11.67	873.0	1,555.0
SIDETRACKING	29.5	Jun 03, 2002	Jun 04, 2002	309.5	12.90	1,137.0	1,555.0
PRODUCTION CSG/LNR(1)	13.0	Jun 05, 2002	Jun 05, 2002	322.5	13.44	1,555.0	1,555.0

DATE Jun 05, 2002

DAILY DRILLING REPORT # 14

BALEEN # 3

VIC/L21

WBM Data

COST TODAY : $624 | CUM. WB MUD COST: $250,976 | CUM. WBM+OBM COST: $250,976

Type : **KCL Brine**	VISCOCITY (sec/qt) : 37	API FLUID LOSS (cm3/30min) :	Cl :	SOLIDS (%vol) :
FROM : PIT	PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
TIME : 20:00	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
WEIGHT (sg) : 1.12	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
TEMP (C) :	Fann 3/6/100 :		PM :	PH :
			PF :	PHPA (ppb) :

COMMENT: Dumped 120bbls & added dilution pill to reduce mud weight. Mixed clean up pills.

Bit Data for Bit # 5RR4

IADC # 4 1 7

Wear	I	O1	D	L	B	G	O2	R
	1	2	LT	G	E	IN	ER	TD

SIZE (") :	**8.50**			**NOZZLES**	
MANUFACTURER :	Reed	AVE WOB (k-lbs) :		3 x14	
TYPE :	EHP 41 ALKDH	AVE RPM :		x	
SERIAL # :	M25484	FLOW (gpm) :	609	x	
DEPTH IN (m RT) :	1137	PUMP PRESS. (psi):	2,466	x	
DEPTH OUT (m RT) :	1555	HSI (hp/sqi) :	1.091	x	

Drilled over the last 24 hrs		Calculated over the bit run	
METERAGE (m) :	0	CUM.METERAGE (m)	425
ON BOTTOM HRS :	.0	CUM. ON BOT. HRS :	24.4
IADC DRILL. HRS :	.0	CUM.IADC DRILL HRS:	27.3
TOTAL REVS :	0	CUM.TOT. REVS :	0
ROP (m/hr):		ROP (m/hr):	15.6

BHA # 5 Length (ft) :92.1

WT BLW JAR(k-lbs):	10	STRING WT(k-lbs) :	56	TRQE MAX (ft-lbs):	7,000	D.C. (1) ANN. VELOCITY (mpm):	0
BHA WT(k-lbs) :	12	PICK UP WT(k-lbs) :	59	TRQE ON (ft-lbs):	4,000	D.C. (2) ANN VELOCITY (mpm):	0
		SLK 0FF WT(k-lbs) :	50	TRQE OFF (ft-lbs):	4,000	H.W.D.P. ANN VELOCITY (mpm):	96
						D.P. ANN VELOCITY (mpm) :	96

BHA DESCRIPTION : 8.5 Bit,6.75 Motor,FEWD,Float sub,3xHWDP,Jars,3xHWDP

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT
PM (Survey tool)	66.3	DMO-1540M6	FEWD Component
DGR (Logging tool)	66.3	DM-1537HNRCG 16	FEWD Component
Pulser	66.3	DMO-1528K6	FEWD Component
Jar	66.3	DAH-2122	

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
1,460	712	85.35	232.	232.0	332.8	3.99	-181.6	-279.1	
1,489	714	89.87	231.	231.9	361.6	4.68	-199.4	-301.9	
1,517	713	93.80	232.	232.1	389.8	4.16	-216.9	-324.2	
1,546	710	95.32	232.	232.2	418.7	1.57	-234.7	-347.2	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	1626			1626
Bentonite	SX	1662			1662
G-neat	SX	1449			1449
G+35% SiFl	SX	0			0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	23	23	98
Drill Water	M3	472	140		332
Heli-fuel	ltr	4924	992		3932
Base Oil	M3				0
Rig Fuel	M3	304	14	112	402
Brine	M3				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00	47	97	203	2466	30	250	1381	10.2
2	National	6.00	47	97	202	2466	40	370	1381	10.2
3	National	6.00	48	97	202	2466	50	425	1381	10.2

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Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	866.1 866.1	680.0 680.0		1.41 1.41	Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Displaced with 190 bbls, Bumped plug and pressure tested casing to 3,000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
9 5/8" Well head	2.33	8.750	47.0	L-80	New Vam
X / O Joint (NK3SB pin X N-VAM box)	3.17	8.750	47.0	L-80	N-Vam x NK
58 Joints 9 5/8" Casing	746.36	8.750	47.0	L-80	NK 3SB
Float joint	13.05	8.750	47.0	L-80	N-Vam x NK
Intermediate Joint	12.03	8.750	47.0	L-80	New Vam
Shoe Joint	12.50	8.750	47.0	L-80	New Vam

Personnel : on Site =97

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	R.King	OMV	6
Drilling Supervisor	J. Kenrick	Service Company	38
Drilling Engineer	H.Heinzle	Diamond Offshore	45
Sub Sea Engineer	W. Bates	Catering	8
Testing Supervisor	M. Mulliner		
Completion Supervisor	L. Taylor		

Safety, Inspections and Drills

Summary

Shakers, Volumes and Losses Data

ENGINEER Czarny

SHAKER 1	4 x 120
SHAKER 2	4 x 120
SHAKER 3	4 x 120
SHAKER 4	4 x 145
SHAKER 5	

VOLUME AVAILABLE (bbl) = 1217

ACTIVE	80	MIXING	
HOLE	447	SLUG	
RESERVE	690	HEAVY	

LOSSES (bbl) = 690

DOWNHOLE	
SURF. + EQUIP	0.00
DUMPED	690.00

COMMENTS

Dumped & cleaned pits. Saved 690bbls Flo Pro in storage. Mixed 1.12SG KCL brine.

Anchors

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)

Weather

VISIBILITY(nm)
WIND SP. (kts)
WIND DIR (deg)
PRES.(mbars)
AIR TEMP (C)

Rig / Sea Data

RIS.TENS (klbs)
VDL (mt)
WAVES (m)
SWELL (m)

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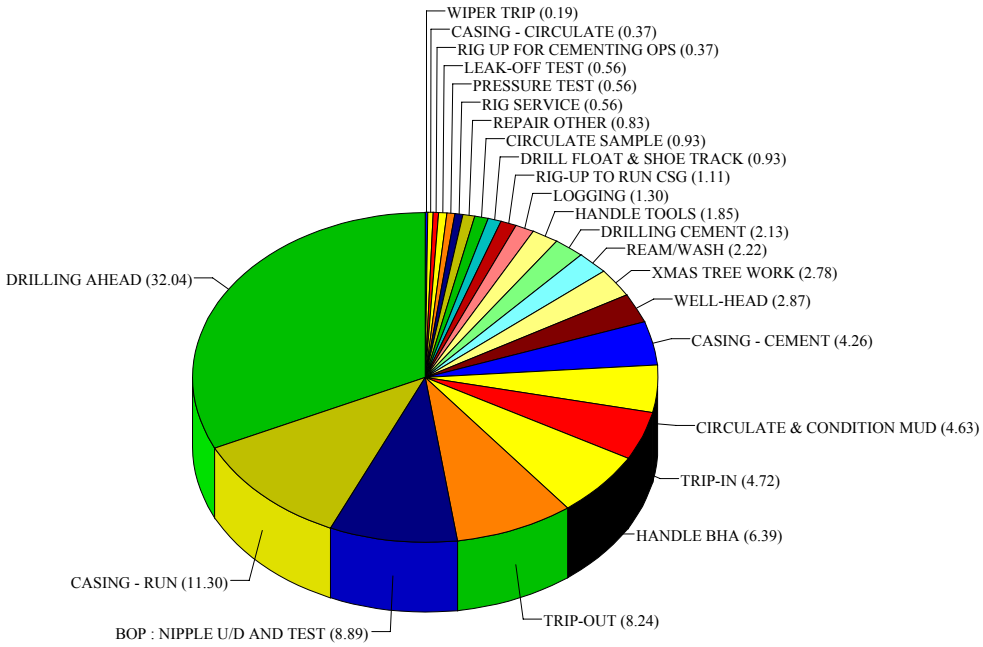
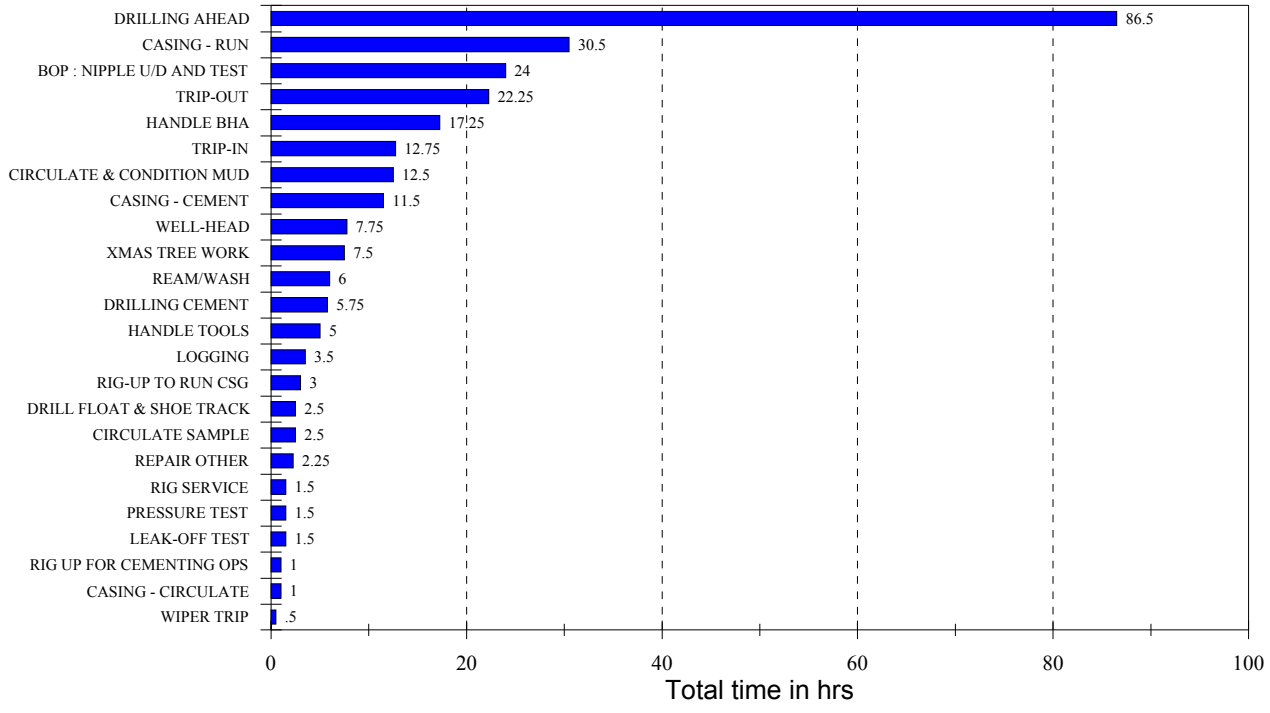
Total move time (hrs)	22.50	Total prod. time since spud (hrs) :	270.00
Total time on well excluding move (hrs)	300.00	Total troub. time since spud (hrs)	30.00
		% Trouble time	10.00

Productive Time by Op.



Productive time by Operation



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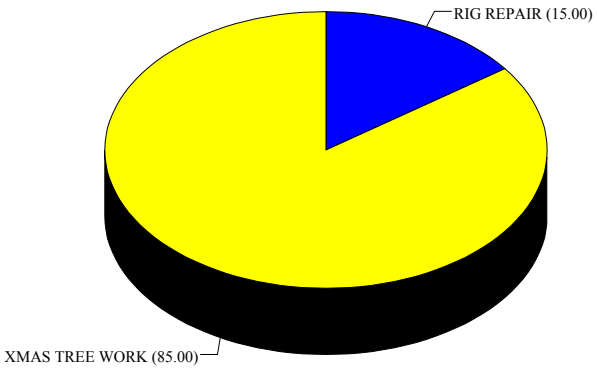
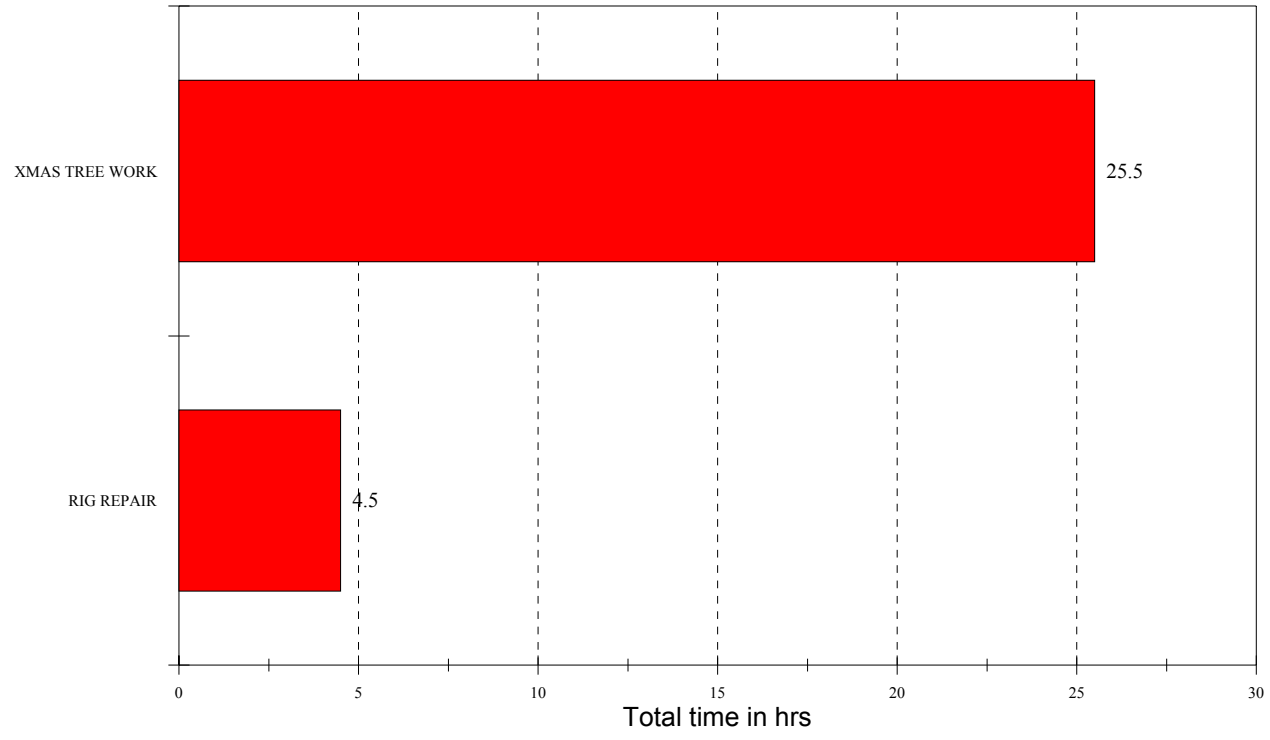
Trouble Time by Op.



NPT by Operation



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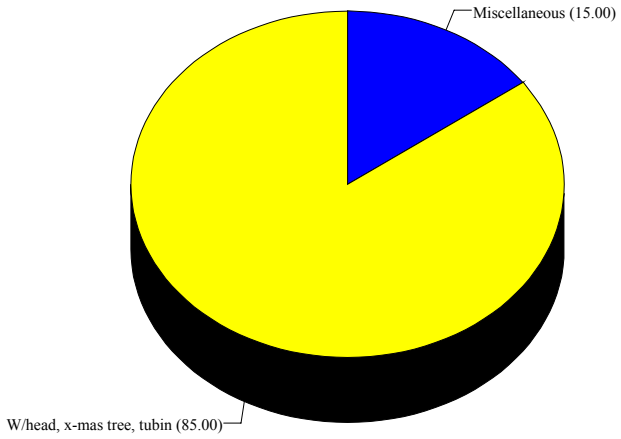
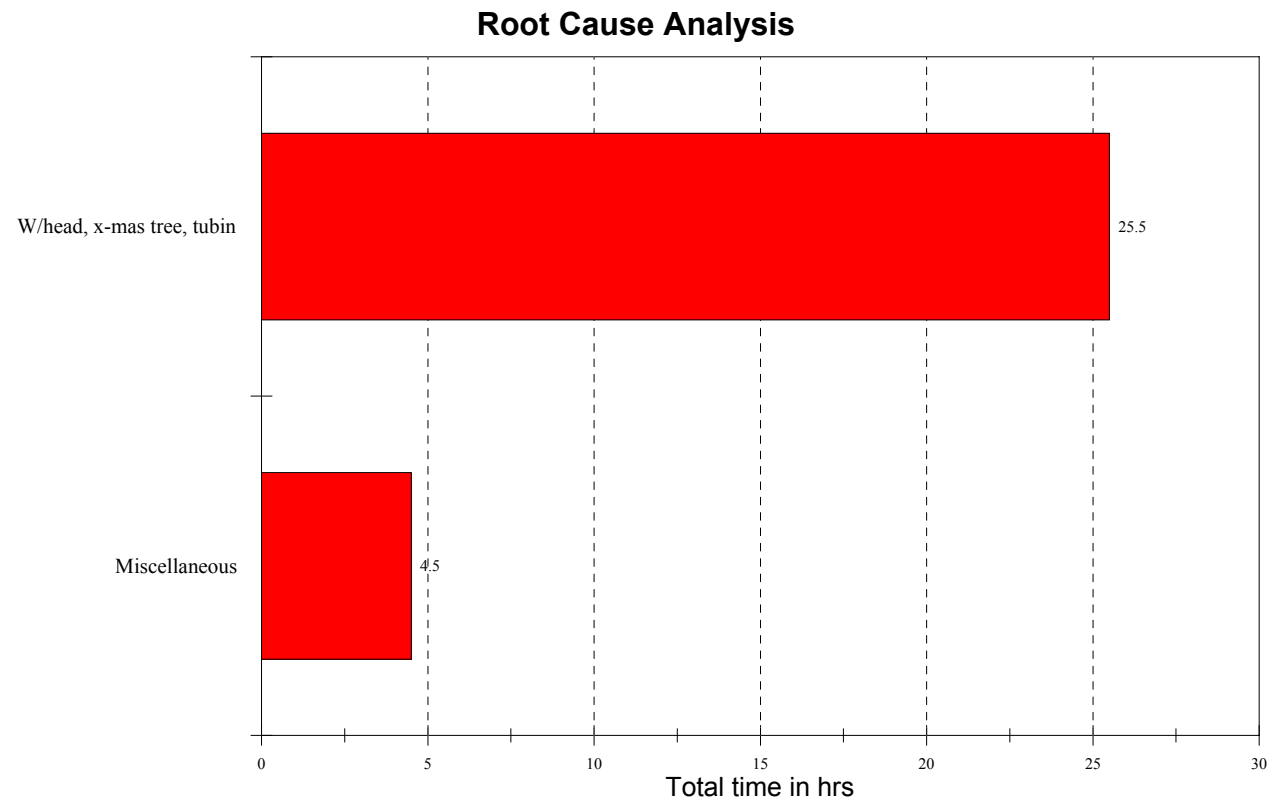
Root Cause Analysis





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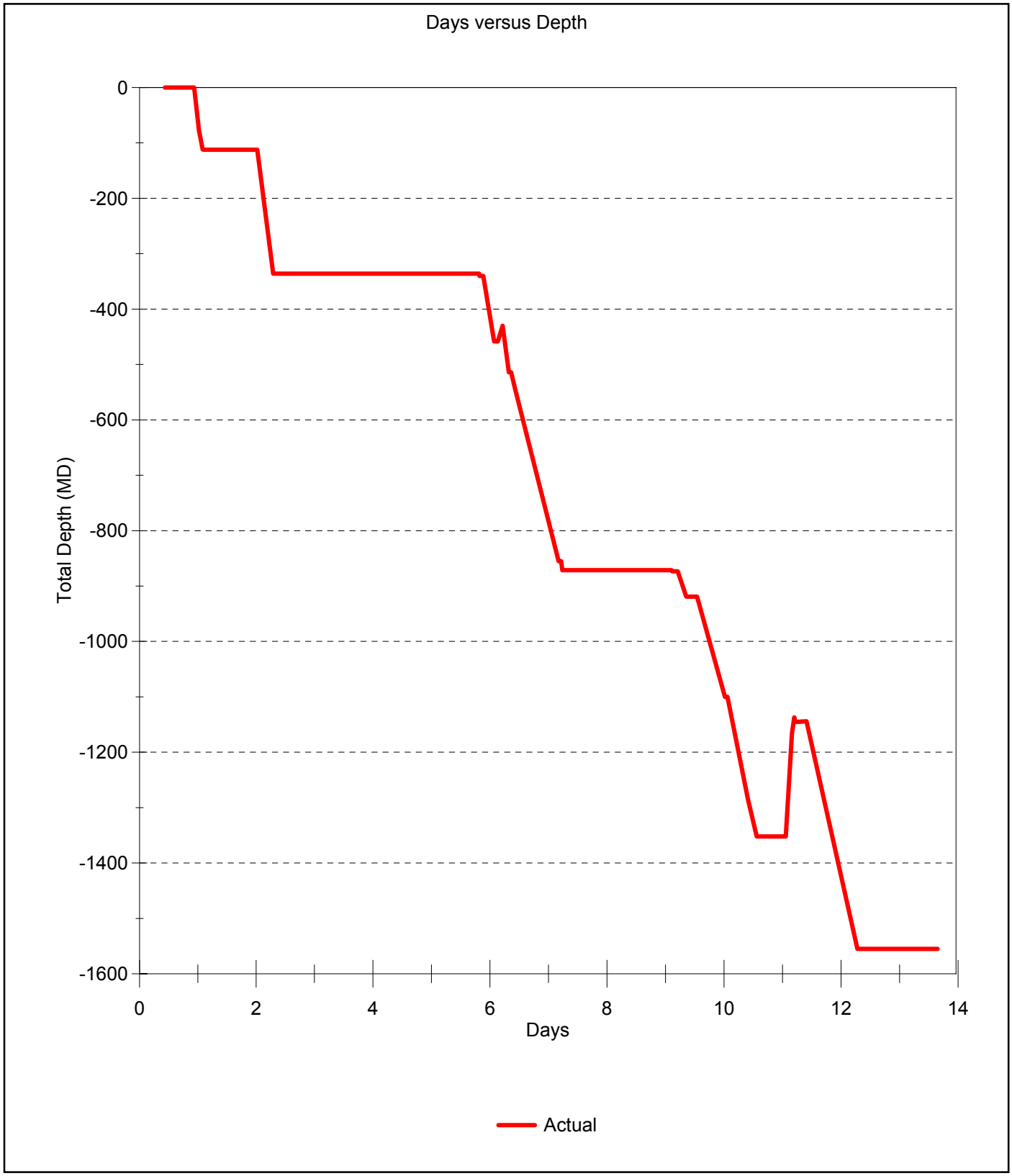
DEPTH @ 24:00 = 1,555.0m after 13.46 days since spud



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OMV

DAILY DRILLING REPORT # 15

DATE Jun 06, 2002

FROM : R. King / J. Kenrick
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	1,555.0	CUR. HOLE SIZE (")	8.50	AFE COST $	11,825,851
TVD (mBRT)	710.4	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
PROGRESS (m)		SHOE TVD (mBRT)	680	DAILY COST :	$630,760.00
DAYS ON WELL	14.46	FIT (sg)	1.41	CUM COST :	$9,281,106.00
DAYS +/- CURVE	1.60	LOT (sg)	0.00		

CURRENT OP @ 0600 Running completion.

PLANNED OP. Run completion & space out. Land completion & prepare to test.

Summary of period 0000 to 2400 hrs

Ran production liner. Displaced well to filtered brine & spotted wellzyme in open hole. Set & tested liner hanger/packer. Pulled out of hole & laid down 2.875" washstring.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 06, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PC	P		CRN	00:00	03:30	3.50	1,555	Ran 2.875" inner wash string & landed on no go. Spaced out with required pup joints.
PC	P		CRN	03:30	04:30	1.00	1,555	Held JSA. Picked up liner hanger & made up inner wash string.
PC	P		CRN	04:30	05:00	.50	1,555	Rigged down false floor. Made up liner hanger to liner.
PC	P		CRN	05:00	05:30	.50	1,555	Ran in hole with liner on 5" drill pipe to 892m.
PC	P		CMD	05:30	07:00	1.50	1,555	Circulated 120bbls 1.12SG filtered brine.
PC	P		CRN	07:00	11:00	4.00	1,555	Ran in hole with liner on 5" drill pipe from 892m to 1554m.
PC	P		CIC	11:00	13:30	2.50	1,555	Circulated hole to 1.12SG filtered brine. Pumped & spotted 180bbls wellzyme across open hole.
PC	P		RPK	13:30	15:30	2.00	1,555	Pressure tested cement line to 4500psi & dropped ball. Set hanger/packer & confirmed. Pressured tested backside to 1500psi. Sheared ball seat & released running tool.
PC	P		TO	15:30	18:00	2.50	1,555	Flow checked & pulled out of hole with running tool.
PC	P		HT	18:00	18:30	.50	1,555	Laid down running tool.
PC	P		PLD	18:30	23:30	5.00	1,555	Pulled out of hole laying down 2.875" wash string. Broke out & laid down side entry sub.
PC	P		HT	23:30	24:00	.50	1,555	Made up jetting tool & wear bushing pulling tool.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 07, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PC	P		HT	00:00	02:00	2.00	1,555	Ran in hole & jetted riser & wear bushing. Recovered wear bushing & jetted xmas tree & wellhead area. Pulled out of hole & laid down wear bushing.
CTB	P		HT	02:00	03:00	1.00	1,555	Made up tubing head running tool.
CTB	P		HT	03:00	05:00	2.00	1,555	Made up 7" flow head crossover to joint of 7" landing string. Made up joint & crossover to 7" flow head swivel.
CTB	P		RTB	05:00	05:30	.50	1,555	Rigged up to run completion, held JSA.
CTB	P		RTB	05:30	06:00	.50	1,555	Picked up seal unit assembly & made up mule shoe.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	33.0	May 26, 2002	May 27, 2002	139.8	5.82	336.0	336.0
INTERMEDIATE HOLE (1)	54.3	May 29, 2002	Jun 01, 2002	194.0	8.08	340.0	871.0
INTERMEDIATE CASING (1)	25.0	May 31, 2002	Jun 01, 2002	219.0	9.13	871.0	871.0
PRODUCTION HOLE (1)	61.0	Jun 01, 2002	Jun 05, 2002	280.0	11.67	873.0	1,555.0
SIDETRACKING	29.5	Jun 03, 2002	Jun 04, 2002	309.5	12.90	1,137.0	1,555.0
PRODUCTION CSG/LNR(1)	37.0	Jun 05, 2002	Jun 06, 2002	346.5	14.44	1,555.0	1,555.0

DATE Jun 06, 2002

DAILY DRILLING REPORT # 15

BALEEN # 3

VIC/L21

WBM Data

COST TODAY : $28,203 CUM. WB MUD COST: $279,179 CUM. WBM+OBM COST: $279,179

Type : **KCL Brine**	VISCOCITY (sec/qt) : 37	API FLUID LOSS (cm3/30min) :	Cl :	SOLIDS (%vol) :
FROM : PIT	PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
TIME : 12:00	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
WEIGHT (sg) : 1.12	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
TEMP (C) :	Fann 3/6/100 :		PM :	PH :
			PF :	PHPA (ppb) :

COMMENT: Dumped 120bbls & added dilution pill to reduce mud weight. Mixed clean up pills.

BHA # 4 Length (ft) :

WT BLW JAR(k-lbs):	STRING WT(k-lbs) :	TRQE MAX (ft-lbs):	D.C. (1) ANN. VELOCITY (mpm): 0
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	TRQE ON (ft-lbs):	D.C. (2) ANN VELOCITY (mpm): 0
	SLK 0FF WT(k-lbs) :	TRQE OFF (ft-lbs):	H.W.D.P. ANN VELOCITY (mpm): 0
			D.P. ANN VELOCITY (mpm) : 0

BHA DESCRIPTION :

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
1,460	712	85.35	232.	232.0	332.8	3.99	-181.6	-279.1	
1,489	714	89.87	231.	231.9	361.6	4.68	-199.4	-301.9	
1,517	713	93.80	232.	232.1	389.8	4.16	-216.9	-324.2	
1,546	710	95.32	232.	232.2	418.7	1.57	-234.7	-347.2	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	1626			1626
Bentonite	SX	1662			1662
G-neat	SX	1449			1449
G+35% SiFl	SX	0			0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	26	26	98
Drill Water	M3	332	33	198	497
Heli-fuel	ltr	3932	229		3703
Base Oil	M3				0
Rig Fuel	M3	402	13		389
Brine	M3				0

Pump Data

	Pump Data - last 24 hrs						Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00		97						
2	National	6.00		97						
3	National	6.00		97						

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	866.1 866.1	680.0 680.0		1.41 1.41	Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Displaced with 190 bbls, Bumped plug and pressure tested casing to 3,000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
9 5/8" Well head	2.33	8.750	47.0	L-80	New Vam
X / O Joint (NK3SB pin X N-VAM box)	3.17	8.750	47.0	L-80	N-Vam x NK
58 Joints 9 5/8" Casing	746.36	8.750	47.0	L-80	NK 3SB
Float joint	13.05	8.750	47.0	L-80	N-Vam x NK
Intermediate Joint	12.03	8.750	47.0	L-80	New Vam
Shoe Joint	12.50	8.750	47.0	L-80	New Vam

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Personnel : on Site =97

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	R.King	OMV	5
Drilling Supervisor	J. Kenrick	Service Company	39
Sub Sea Engineer	W. Bates	Diamond Offshore	45
Testing Supervisor	M. Mulliner	Catering	8
Completion Supervisor	L. Taylor		

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER Czarny

SHAKER 1	4 x120
SHAKER 2	4 x 120
SHAKER 3	4 x 120
SHAKER 4	4 x 145
SHAKER 5	

VOLUME AVAILABLE (bbl) = 2023

ACTIVE	447	MIXING	
HOLE	399	SLUG	
RESERVE	1177	HEAVY	

LOSSES (bbl) = 132

DOWNHOLE	
SURF. + EQUIP	0.00
DUMPED	132.00

COMMENTS

Mixed & filtered 1.12SG KCL brine.

Anchors

A 1	200	A 2	240	A 3	210	A 4	200	A 5	180
A 6	190	A7	285	A8	285				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	On Loc	357	0	750	207	1188	838	
Pacific Sentinel	On Loc	231		421	123			

Weather

VISIBILITY(nm)	14
WIND SP. (kts)	20.0
WIND DIR (deg)	330
PRES.(mbars)	1013
AIR TEMP (C)	17.0

Rig / Sea Data

RIS.TENS (klbs)	216
VDL (mt)	2,178
WAVES (m)	0.6
SWELL (m)	0.9

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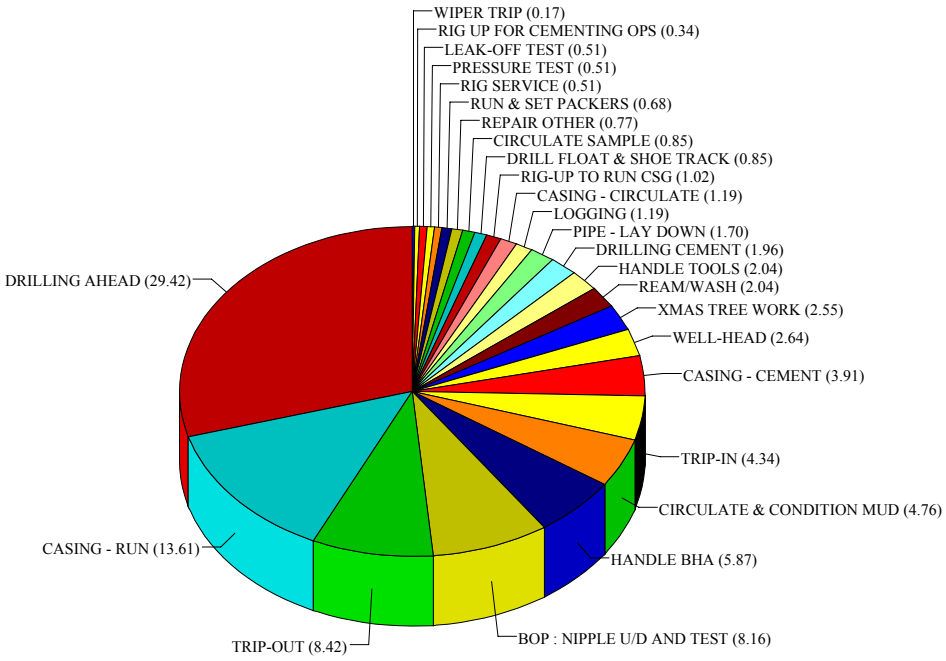
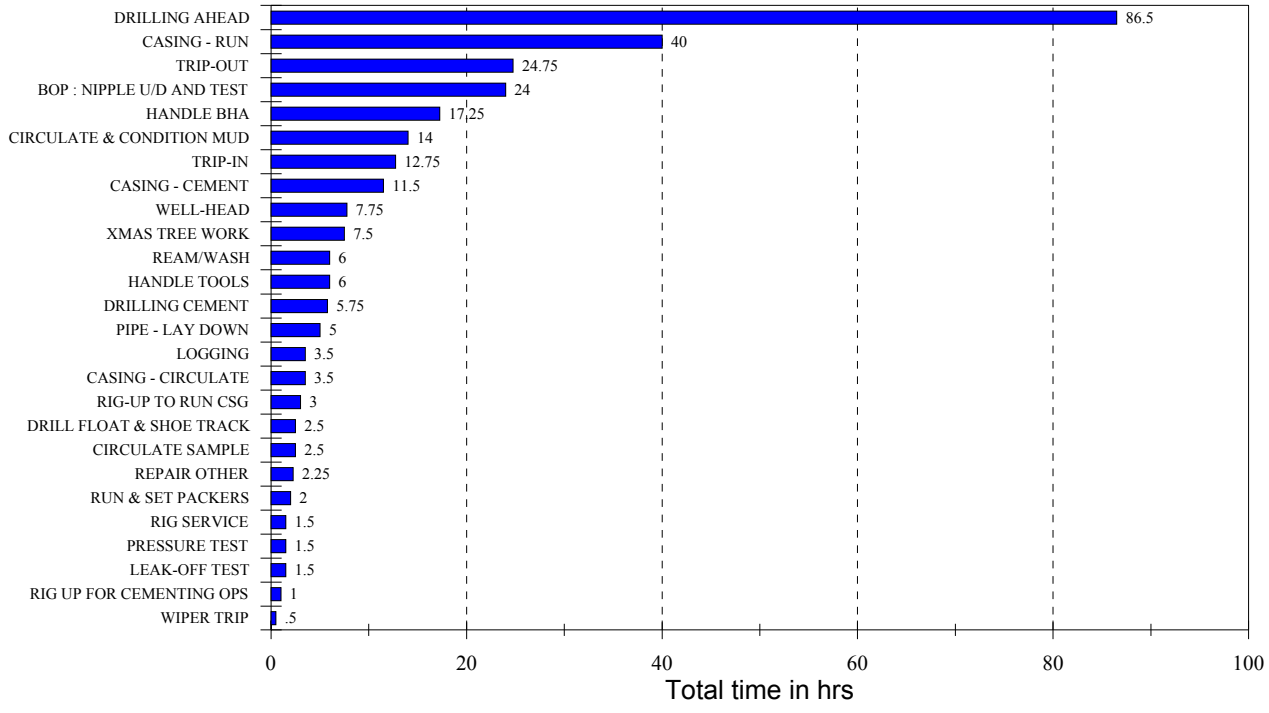
Total move time (hrs)	22.50	Total prod. time since spud (hrs) :	294.00
Total time on well excluding move (hrs)	324.00	Total troub. time since spud (hrs)	30.00
		% Trouble time	9.26

Productive Time by Op.



Productive time by Operation



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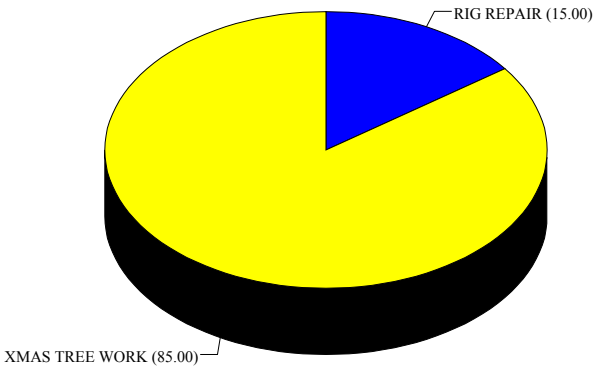
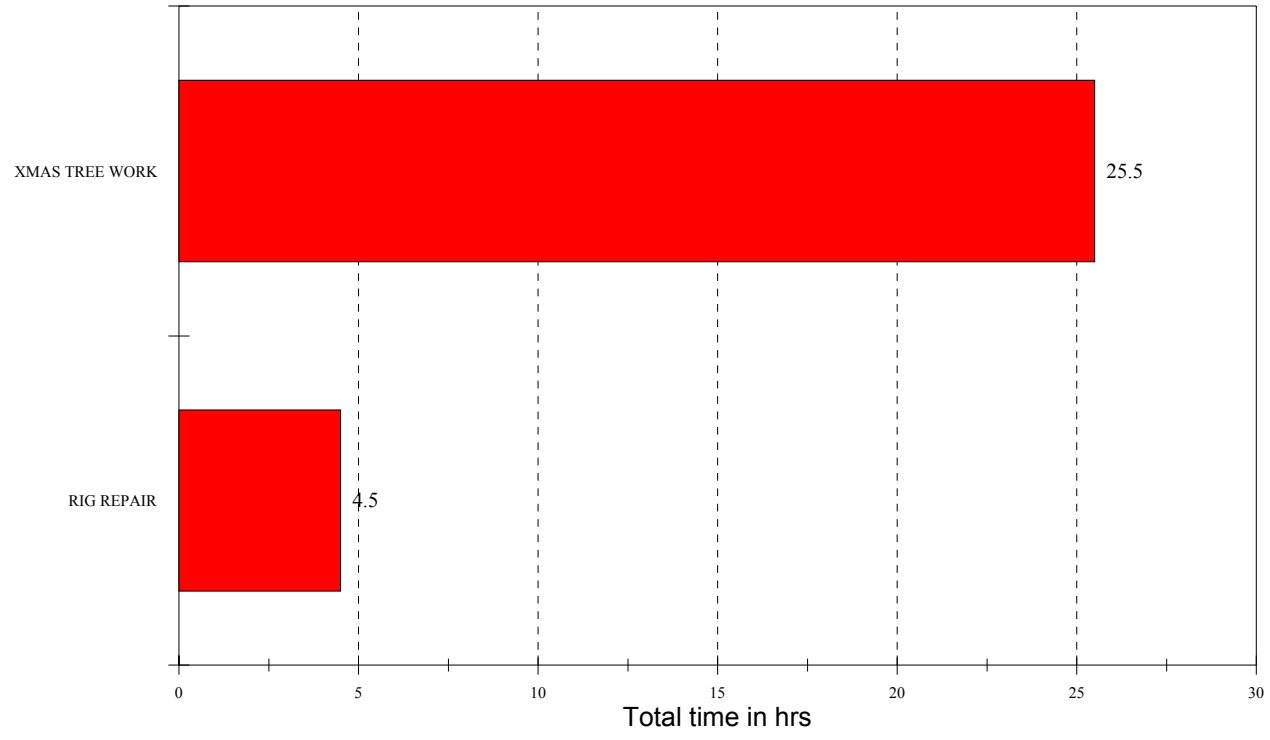
Trouble Time by Op.



NPT by Operation



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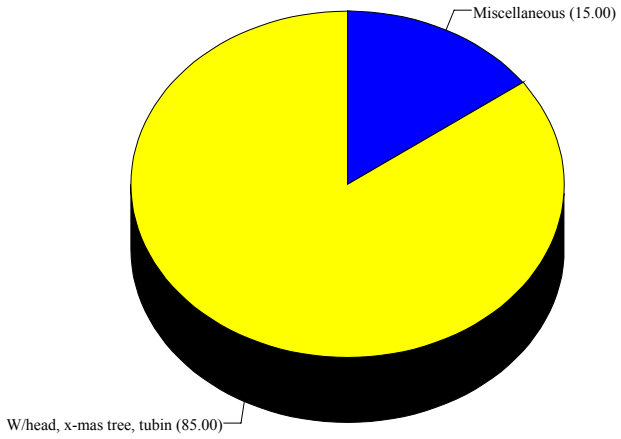
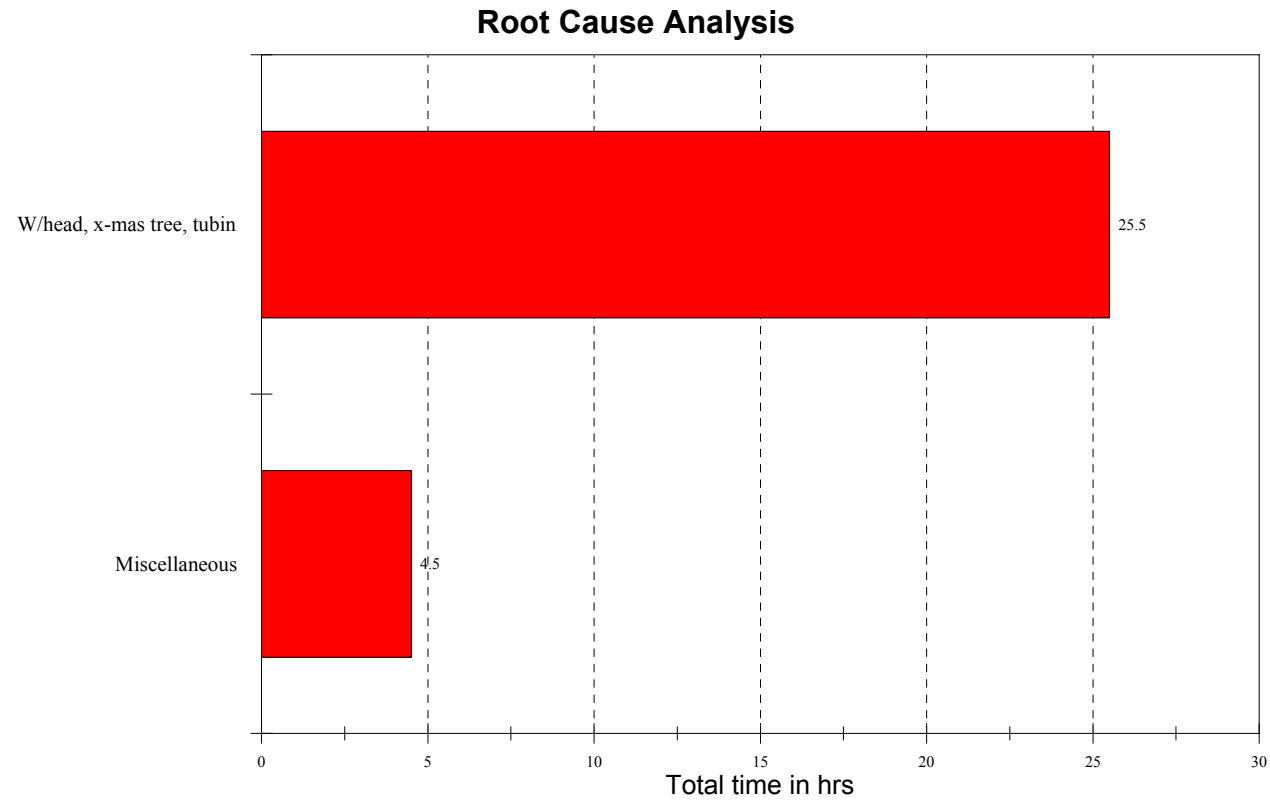
Root Cause Analysis





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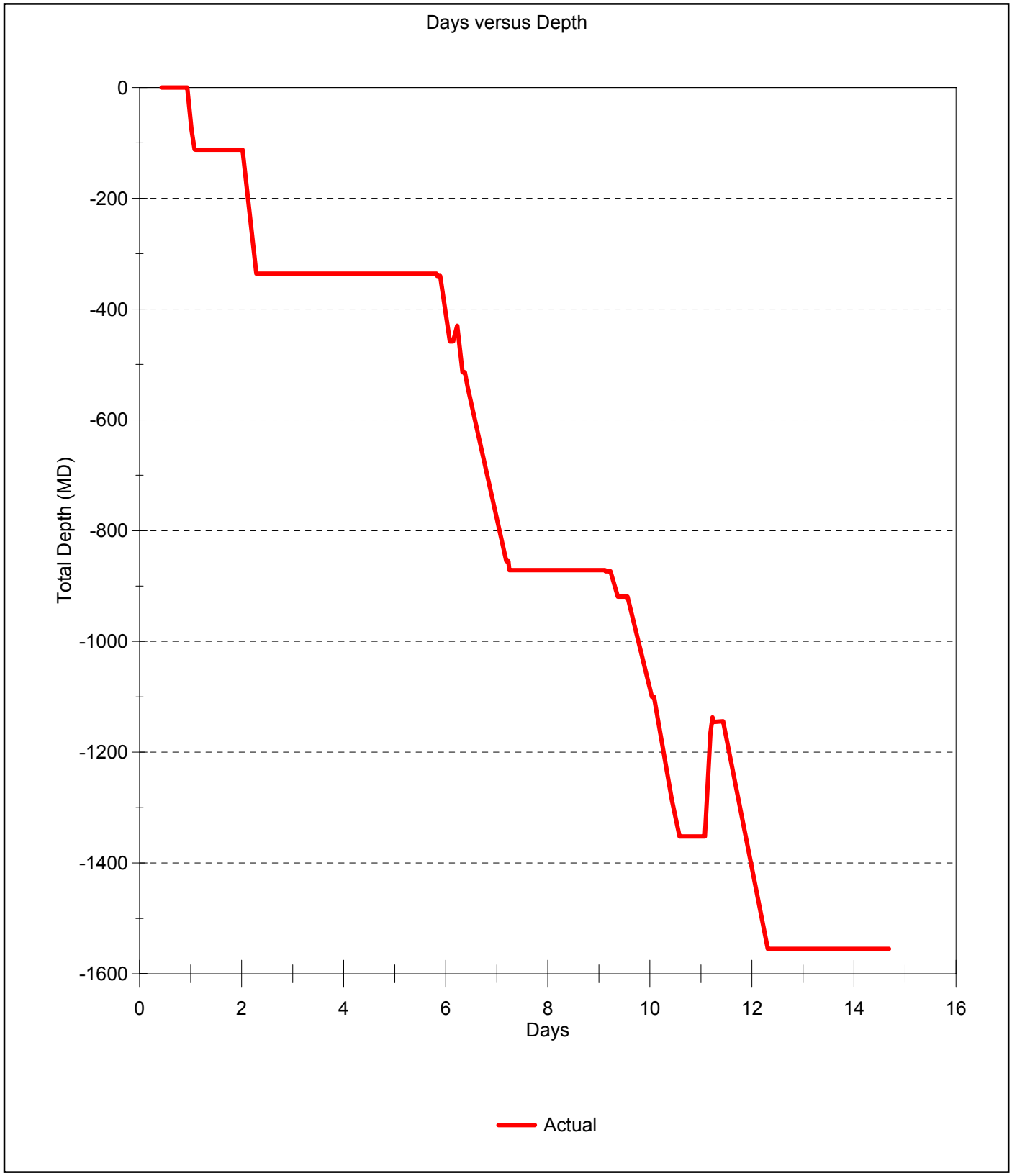
DEPTH @ 24:00 = 1,555.0m after 14.46 days since spud



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OMV

DAILY DRILLING REPORT # 16

DATE Jun 07, 2002

FROM : R. King / J. Kenrick
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	1,555.0	CUR. HOLE SIZE (")	8.50	AFE COST $	11,852,851
TVD (mBRT)	710.4	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
PROGRESS (m)		SHOE TVD (mBRT)	680	DAILY COST :	$477,143.00
DAYS ON WELL	15.46	FIT (sg)	1.41	CUM COST :	$9,758,249.00
DAYS +/- CURVE	1.50	LOT (sg)	0.00		

CURRENT OP @ 0600 Rig up coiled tubing frame & prepare to pick up flow head.
PLANNED OP. Land completion & prepare to test well.

Summary of period 0000 to 2400 hrs
Ran 5.1/2" completion.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 07, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PC	P		HT	00:00	02:00	2.00	1,555	Ran in hole & jetted riser & wear bushing. Recovered wear bushing & jetted xmas tree & wellhead area. Pulled out of hole & laid down wear bushing.
CTB	P		HT	02:00	03:00	1.00	1,555	Made up tubing head running tool.
CTB	P		HT	03:00	05:00	2.00	1,555	Made up 7" flow head crossover to joint of 7" landing string. Made up joint & crossover to 7" flow head swivel.
CTB	P		RTB	05:00	05:30	.50	1,555	Rigged up to run completion, held JSA.
CTB	P		RTB	05:30	06:00	.50	1,555	Picked up seal unit assembly & made up mule shoe.
CTB	P		RTB	06:00	10:30	4.50	1,555	Ran 5.1/2" completion.
CTB	P		RTB	10:30	11:30	1.00	1,555	Picked up & made up TRSCSSV. Installed & pressure tested control line & swage lock to 5000psi for 10 minutes.
CTB	P		RTB	11:30	12:30	1.00	1,555	Ran 5.1/2" completion.
CTB	P		RTB	12:30	14:00	1.50	1,555	Picked up & made up tubing hanger. Installed & pressure tested control line & swage lock to 5000psi for 10 minutes.
CTB	P		RTB	14:00	17:00	3.00	1,555	Picked up & made up SSTT/THRT. Installed umbilical & pressure tested to 5000psi for 10 minutes. Verified TRSCSSSV in open position & hold 5000psi on control line.
CTB	P		RTB	17:00	18:00	1.00	1,555	Run in hole with completion picking up 7" landing string.
CTB	U		RTB	18:00	19:00	1.00	1,555	Installed 500T casing elevators in rotary table. Unable to run umbilical with hand slips due to limited room in bushing bowl.
CTB	P		RTB	19:00	21:00	2.00	1,555	Run completion on 7" landing string. Made up lubricator valve. Pressure tested control line to 5000psi for 10 minutes.
CTB	TP	TUB	RTB	21:00	21:30	.50	1,555	Lost 5000psi pressure on TRSCSSSV control line. Checked surface equipment in an attempt identify problem. Surface equipment holding pressure.
CTB	TP	TUB	RTB	21:30	23:00	1.50	1,555	Pulled back & laid down 7" lubricator valve. Pulled back to THRT & inspected control line for damage. Pressure tested TRSCSSSV control line to 5000psi. Pressure tested all umbilical control lines to 5000psi.
CTB	TP	TUB	RTB	23:00	24:00	1.00	1,555	Pulled back to tubing hanger. Inspected tubing hanger & discovered running circuit ring in upper/retracted position allowing control line fluid to TRSCSSSV to vent in annulus.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 08, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
CTB	TP	TUB	RTB	00:00	01:00	1.00	1,555	Inspected o-ring seals. Replaced o-ring seal on retainer piston & lowered running circuit ring to running position. Pressure tested TRSCSSSV control line & to 5000psi for 10 minutes & inspected tubing hanger visually for leaks. Installed shear pins.
CTB	TP	TUB	RTB	01:00	03:30	2.50	1,555	Ran 5.1/2" completion with 7" landing string. Made up 7" lubricator valve & pressure tested control line to 5000psi for 10 minutes.
CTB	P		RTB	03:30	05:00	1.50	1,555	Made up pup joints & circulating swage/hose to landing string. Ran in hole with landing string & confirmed bottom seal stabbed into PBR with 50psi increase in circulating pressure. Marked pipe for space out.

DATE Jun 07, 2002

DAILY DRILLING REPORT # 16

BALEEN # 3

VIC/L21

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
CTB	P		RTB	05:00	06:00	1.00	1,555	Rigged down circulating hose & laid down 1 joint of 7" landing string. Removed circulating swage.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	55.0	May 26, 2002	Jun 07, 2002	161.8	6.74	336.0	1,555.0
INTERMEDIATE HOLE (1)	54.3	May 29, 2002	Jun 01, 2002	216.0	9.00	340.0	871.0
INTERMEDIATE CASING (1)	25.0	May 31, 2002	Jun 01, 2002	241.0	10.04	871.0	871.0
PRODUCTION HOLE (1)	61.0	Jun 01, 2002	Jun 05, 2002	302.0	12.58	873.0	1,555.0
SIDETRACKING	29.5	Jun 03, 2002	Jun 04, 2002	331.5	13.81	1,137.0	1,555.0
PRODUCTION CSG/LNR(1)	39.0	Jun 05, 2002	Jun 07, 2002	370.5	15.44	1,555.0	1,555.0

WBM Data COST TODAY : $28,203 CUM. WB MUD COST: $307,381 CUM. WBM+OBM COST: $307,381

Type : **KCL Brine**	VISCOCITY (sec/qt) : 37	API FLUID LOSS (cm3/30min) :	Cl :	SOLIDS (%vol) :
	PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
FROM : PIT	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
TIME : 12:00	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
WEIGHT (sg) : 1.12			PM :	PH :
TEMP (C) :	Fann 3/6/100 :		PF :	PHPA (ppb) :

COMMENT: Dumped 120bbls & added dilution pill to reduce mud weight. Mixed clean up pills.

BHA # 4 **Length (ft) :**

WT BLW JAR(k-lbs):	STRING WT(k-lbs) :	TRQE MAX (ft-lbs):	D.C. (1) ANN. VELOCITY (mpm): 0
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	TRQE ON (ft-lbs):	D.C. (2) ANN VELOCITY (mpm): 0
	SLK 0FF WT(k-lbs) :	TRQE OFF (ft-lbs):	H.W.D.P. ANN VELOCITY (mpm): 0
			D.P. ANN VELOCITY (mpm) : 0

BHA DESCRIPTION :

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
1,460	712	85.35	232.	232.0	332.8	3.99	-181.6	-279.1	
1,489	714	89.87	231.	231.9	361.6	4.68	-199.4	-301.9	
1,517	713	93.80	232.	232.1	389.8	4.16	-216.9	-324.2	
1,546	710	95.32	232.	232.2	418.7	1.57	-234.7	-347.2	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	1626			436
Bentonite	SX	1662			1662
G-neat	SX	1449			1449
G+35% SiFl	SX	0			0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	26	26	98
Drill Water	M3	497	18		479
Heli-fuel	ltr	3703	611		3092
Base Oil	M3				0
Rig Fuel	M3	389	16	108	481
Brine	M3				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00		97						
2	National	6.00		97						
3	National	6.00		97						

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DATE Jun 07, 2002

DAILY DRILLING REPORT # 16

BALEEN # 3

VIC/L21

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	866.1 866.1	680.0 680.0		1.41 1.41	Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Displaced with 190 bbls, Bumped plug and pressure tested casing to 3,000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
9 5/8" Well head	2.33	8.750	47.0	L-80	New Vam
X / O Joint (NK3SB pin X N-VAM box)	3.17	8.750	47.0	L-80	N-Vam x NK
58 Joints 9 5/8" Casing	746.36	8.750	47.0	L-80	NK 3SB
Float joint	13.05	8.750	47.0	L-80	N-Vam x NK
Intermediate Joint	12.03	8.750	47.0	L-80	New Vam
Shoe Joint	12.50	8.750	47.0	L-80	New Vam

Personnel : on Site =97

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	R.King	OMV	6
Drilling Supervisor	J. Kenrick	Service Company	37
Sub Sea Engineer	W. Bates	Diamond Offshore	46
Testing Supervisor	M. Mulliner	Catering	8
Completion Supervisor	L. Taylor		
Reservior Engineer	A. Ion		

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER Czarny

SHAKER 1	4 x120
SHAKER 2	4 x 120
SHAKER 3	4 x 120
SHAKER 4	4 x 145
SHAKER 5	

VOLUME AVAILABLE (bbl) = 2023

ACTIVE	432	MIXING	
HOLE	414	SLUG	
RESERVE	1177	HEAVY	

LOSSES (bbl) = 0

DOWNHOLE	
SURF. + EQUIP	0.00
DUMPED	

COMMENTS

Mixed & filtered 1.12SG KCL brine.

Anchors

A 1	200	A 2	240	A 3	210	A 4	200	A 5	180
A 6	185	A7	285	A8	290				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	On Loc	245	0	750	202	1188	838	
Pacific Sentinel	On Loc	223		421	118			

Weather

VISIBILITY(nm)	14
WIND SP. (kts)	12.0
WIND DIR (deg)	360
PRES.(mbars)	1000
AIR TEMP (C)	20.0

Rig / Sea Data

RIS.TENS (klbs)	216
VDL (mt)	2,127
WAVES (m)	0.3
SWELL (m)	0.3

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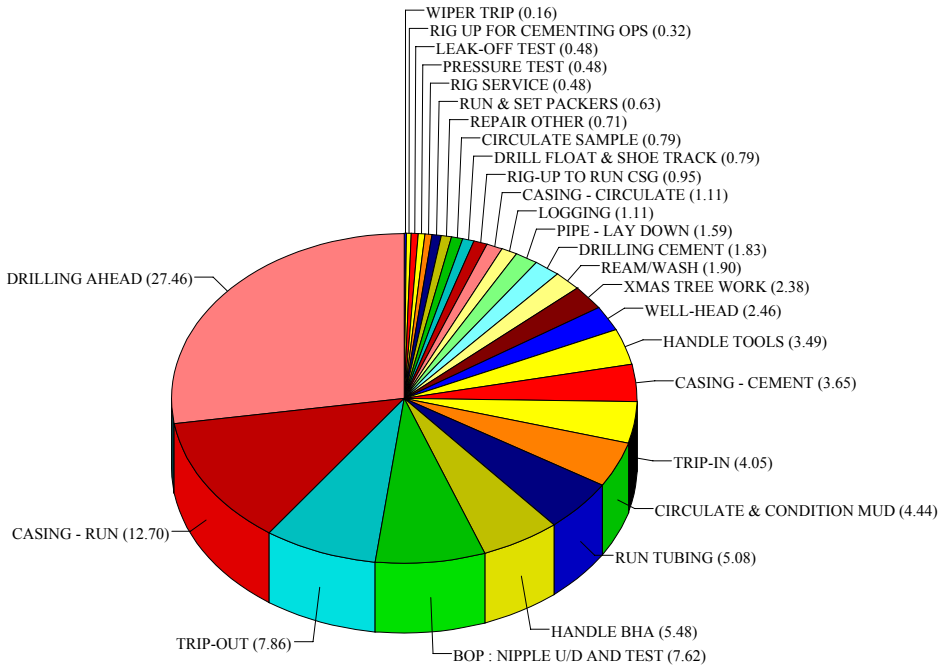
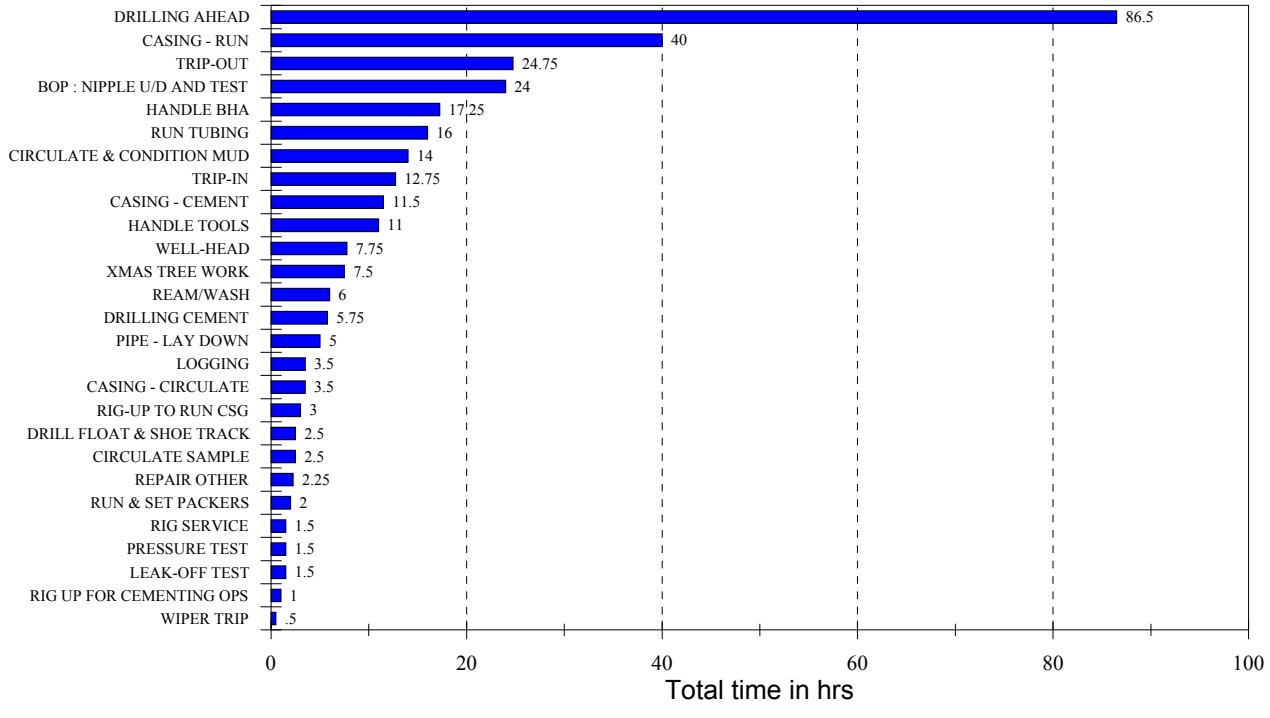
Total move time (hrs)	22.50	Total prod. time since spud (hrs) :	315.00
Total time on well excluding move (hrs)	348.00	Total troub. time since spud (hrs)	33.00
		% Trouble time	9.48

Productive Time by Op.



Productive time by Operation



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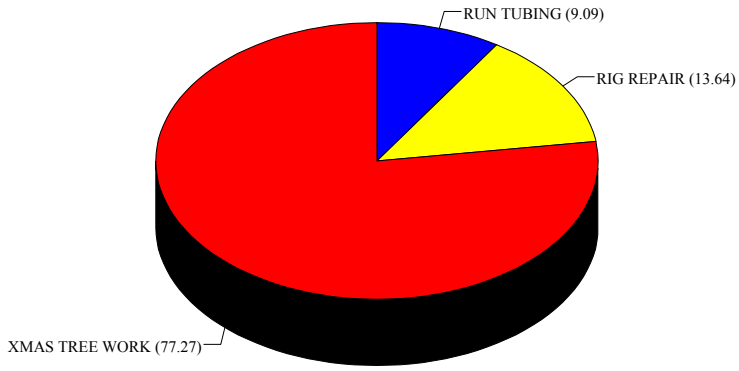
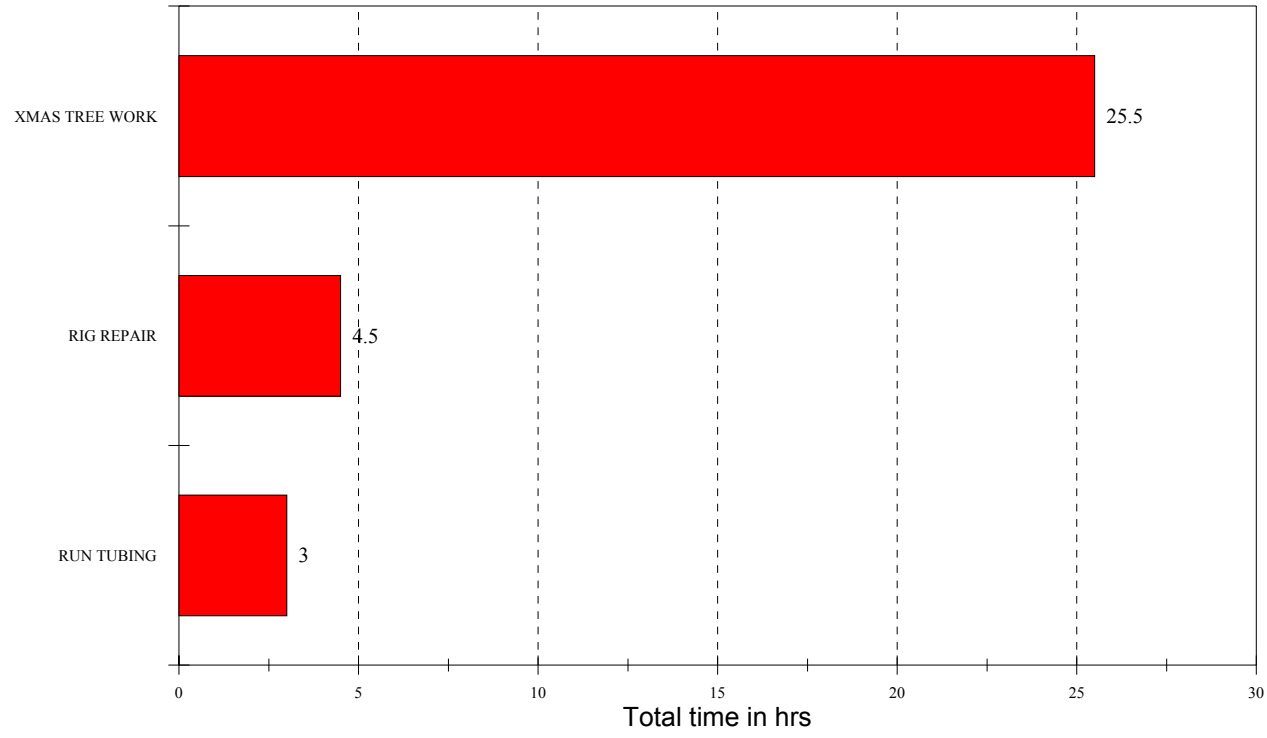
Trouble Time by Op.



NPT by Operation



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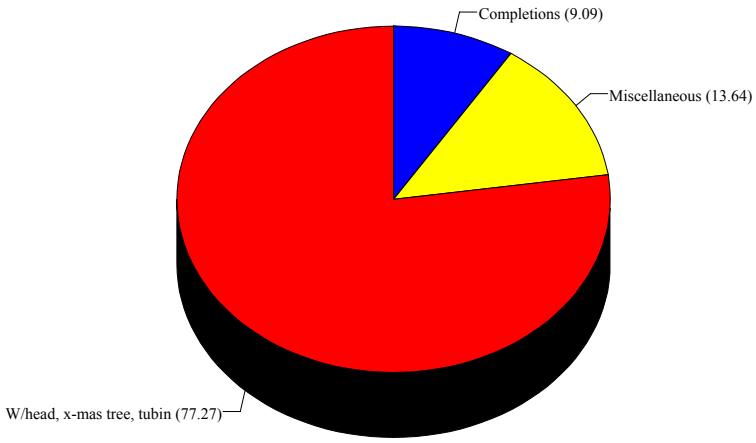
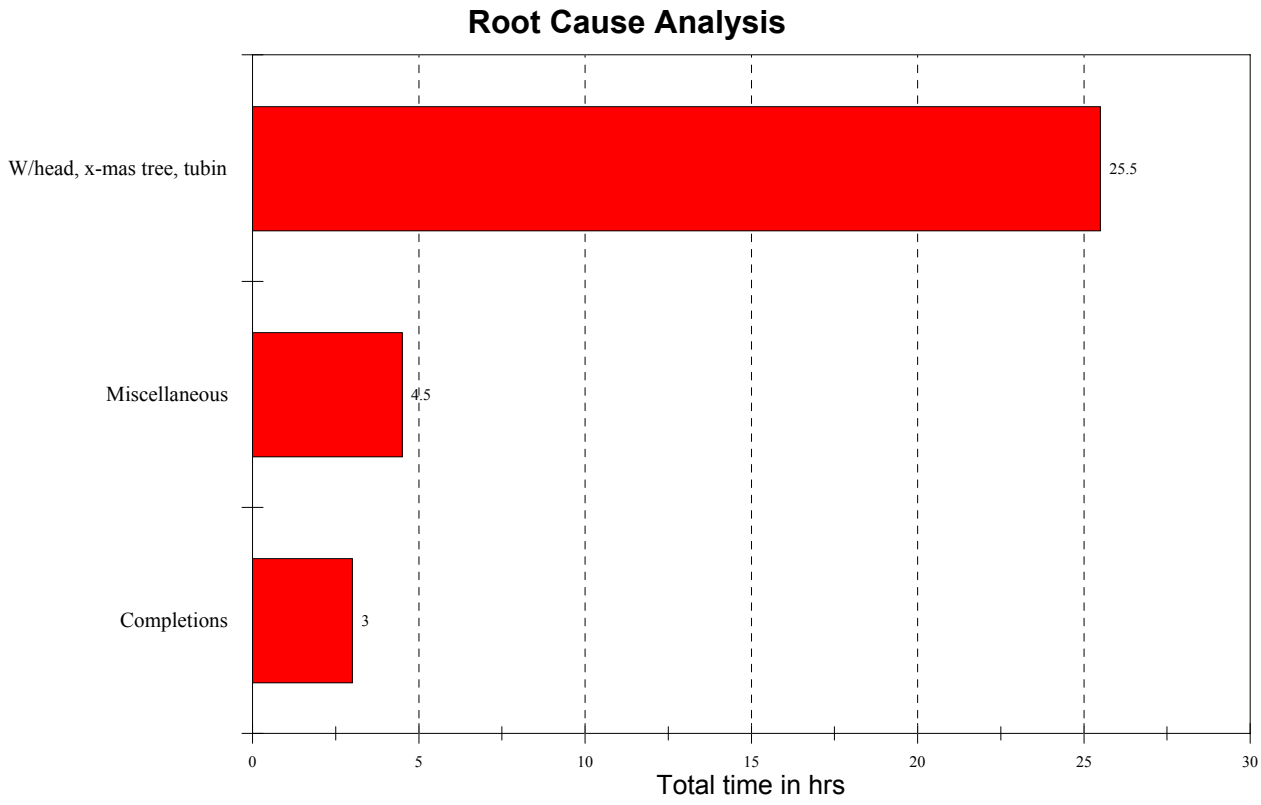
Root Cause Analysis





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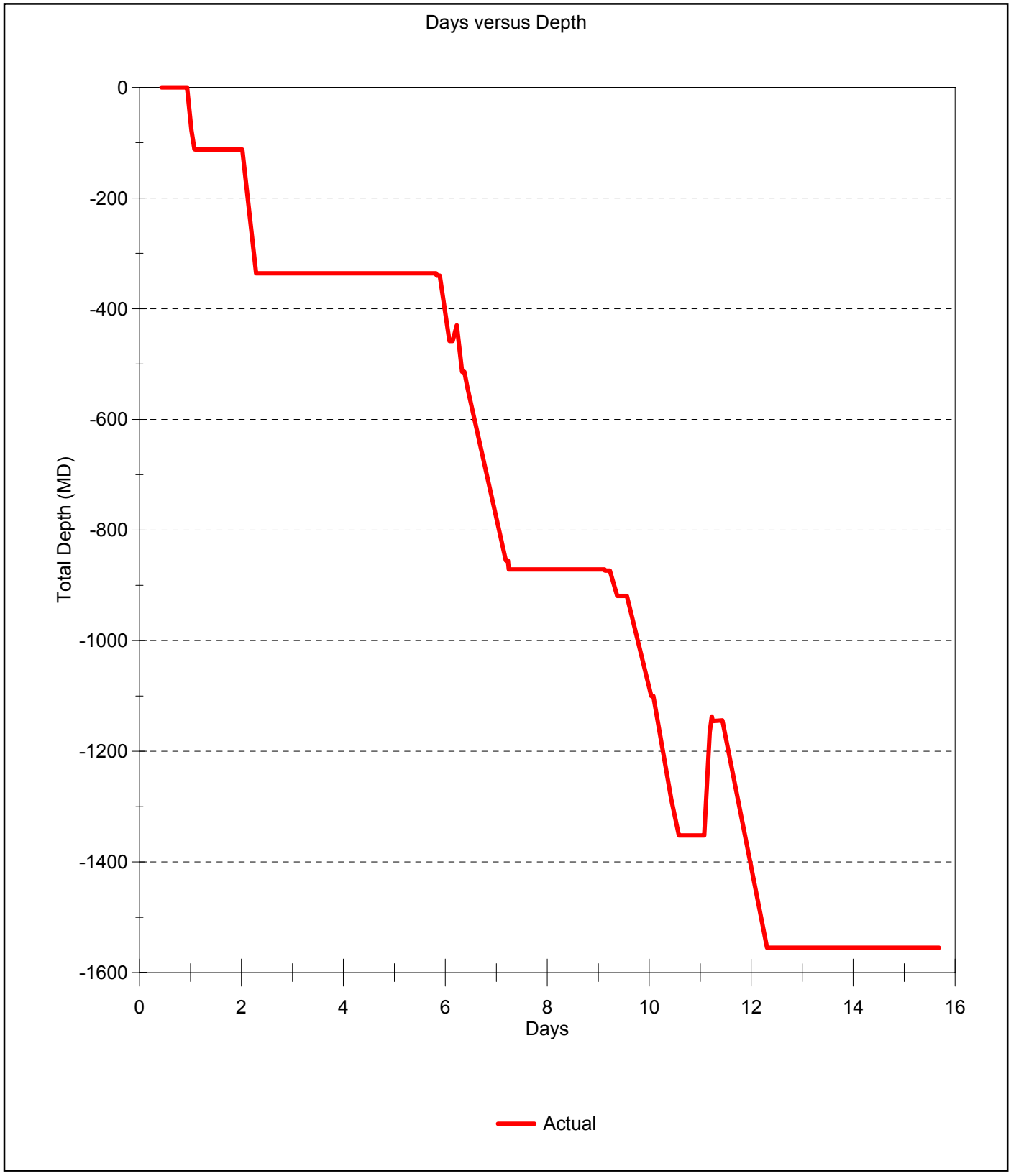
DEPTH @ 24:00 = 1,555.0m after 15.46 days since spud



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OMV

DAILY DRILLING REPORT # 17

DATE Jun 08, 2002

FROM : R. King / J. Kenrick
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	1,555.0	CUR. HOLE SIZE (")	8.50	AFE COST $	11,852,851
TVD (mBRT)	710.4	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
PROGRESS (m)		SHOE TVD (mBRT)	680	DAILY COST :	$374,920.00
DAYS ON WELL	16.46	FIT (sg)	1.41	CUM COST :	10,133,169.00
DAYS +/- CURVE	1.50	LOT (sg)	0.00		

CURRENT OP @ 0600 Carry out rig maintenance.
PLANNED OP. Complete rigging up coiled tubing & test well.

Summary of period 0000 to 2400 hrs

Ran 5 1/2" completion on 7" landing string. Installed flowhead and coflexip hose and function tested flow head control lines. Displaced well to inhibited brine landed tubing hanger and confirmed set. Pressure tested hanger. Positioned coiled tubing unit in preparation for raising to lifting frame.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 08, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
CTB	TP	TUB	RTB	00:00	01:00	1.00	1,555	Inspected o-ring seals. Replaced o-ring seal on retainer piston & lowered running circuit ring to running position. Pressure tested TRSCSSSV control line & to 5000psi for 10 minutes & inspected tubing hanger visually for leaks. Installed shear pins.
CTB	TP	TUB	RTB	01:00	03:30	2.50	1,555	Ran 5.1/2" completion with 7" landing string. Made up 7" lubricator valve & pressure tested control line to 5000psi for 10 minutes.
CTB	P		RTB	03:30	05:00	1.50	1,555	Made up pup joints & circulating swage/hose to landing string. Ran in hole with landing string & confirmed bottom seal stabbed into PBR with 50psi increase in circulating pressure. Marked pipe for space out.
CTB	P		RTB	05:00	5:30	.50	1,555	Rigged down circulating hose & laid down 1 joint of 7" landing string. Removed circulating swage.
CTB	P		RTB	05:30	07:00	1.50	1,555	Held JSA. Picked up coiled tubing lifting frame.
CTB	P		RTB	07:00	09:00	2.00	1,555	Installed coflexip line in derrick. Positioned flow head & installed coflexip hose.
CTB	P		RTB	09:00	12:00	3.00	1,555	Installed bails & connected flow head to coiled tubing lifting frame. Lifted flow head assembly. Installed & function tested flow head control lines.
CTB	P		PT	12:00	14:00	2.00	1,555	Pressure tested flow head & related equipment to 5000psi for 10 minutes.
CTB	P		CMD	14:00	15:00	1.00	1,555	Displaced well to inhibited 1.12SG brine.
CTB	P		RTB	15:00	16:00	1.00	1,555	Landed tubing hanger & sheared pins. Confirmed hanger set with 40K overpull.
CTB	P		PT	16:00	19:00	3.00	1,555	Pressure tested hanger against annular preventer to 3500psi for 10 minutes. Pressure tested production annulus against seal stack in PBR & bottom of tubing hanger to 1500psi for 10 minutes. Pressure tested neck seals on tubing hanger to 3500psi for 10 minutes. Functioned & pressure tested TRSCSSSV to 5000psi for 10 minutes.
CTB	P		CTO	19:00	24:00	5.00	1,555	Held JSA. Installed coiled tubing riser, BOP& control lines. Moved & positioned coiled tubing unit in preparation for raising to lifting frame.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 09, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
CTB	P		CTO	00:00	01:00	1.00	1,555	Positioned coiled tubing unit in preparation for raising.
CTB	TP	RCS	CTO	01:00	06:00	5.00	1,555	Coiled tubing crew worked maximum hours allowed. Carried out rig maintenance & housekeeping whilst crew rest up.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0

DATE Jun 08, 2002

DAILY DRILLING REPORT # 17

BALEEN # 3

VIC/L21

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	79.0	May 26, 2002	Jun 08, 2002	185.8	7.74	336.0	1,555.0
INTERMEDIATE HOLE (1)	54.3	May 29, 2002	Jun 01, 2002	240.0	10.00	340.0	871.0
INTERMEDIATE CASING (1)	25.0	May 31, 2002	Jun 01, 2002	265.0	11.04	871.0	871.0
PRODUCTION HOLE (1)	61.0	Jun 01, 2002	Jun 05, 2002	326.0	13.58	873.0	1,555.0
SIDETRACKING	29.5	Jun 03, 2002	Jun 04, 2002	355.5	14.81	1,137.0	1,555.0
PRODUCTION CSG/LNR(1)	39.0	Jun 05, 2002	Jun 07, 2002	394.5	16.44	1,555.0	1,555.0

WBM Data

COST TODAY : $1,886 CUM. WB MUD COST: $281,065 CUM. WBM+OBM COST: $281,065

Type : **KCL Brine**	VISCOCITY (sec/qt) : 37	API FLUID LOSS (cm3/30min) :	Cl :	SOLIDS (%vol) :
FROM : PIT	PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
TIME : 12:00	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
WEIGHT (sg) : 1.12	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
TEMP (C) :	Fann 3/6/100 :		PM :	PH :
			PF :	PHPA (ppb) :

BHA # 4 Length (ft) :

WT BLW JAR(k-lbs):	STRING WT(k-lbs) :	TRQE MAX (ft-lbs):	D.C. (1) ANN. VELOCITY (mpm): 0
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	TRQE ON (ft-lbs):	D.C. (2) ANN VELOCITY (mpm): 0
	SLK 0FF WT(k-lbs) :	TRQE OFF (ft-lbs):	H.W.D.P. ANN VELOCITY (mpm): 0
			D.P. ANN VELOCITY (mpm) : 0

BHA DESCRIPTION :

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
1,460	712	85.35	232.	232.0	332.8	3.99	-181.6	-279.1	
1,489	714	89.87	231.	231.9	361.6	4.68	-199.4	-301.9	
1,517	713	93.80	232.	232.1	389.8	4.16	-216.9	-324.2	
1,546	710	95.32	232.	232.2	418.7	1.57	-234.7	-347.2	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	436			436
Bentonite	SX	1662			1662
G-neat	SX	1449			1449
G+35% SiFl	SX	0			0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	23	23	98
Drill Water	M3	479	10		469
Heli-fuel	ltr	3092	306		2786
Base Oil	M3				0
Rig Fuel	M3	481	13		468
Brine	M3				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00		97						
2	National	6.00		97						
3	National	6.00		97						

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Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	866.1 866.1	680.0 680.0		1.41 1.41	Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Displaced with 190 bbls, Bumped plug and pressure tested casing to 3,000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
9 5/8" Well head	2.33	8.750	47.0	L-80	New Vam
X / O Joint (NK3SB pin X N-VAM box)	3.17	8.750	47.0	L-80	N-Vam x NK
58 Joints 9 5/8" Casing	746.36	8.750	47.0	L-80	NK 3SB
Float joint	13.05	8.750	47.0	L-80	N-Vam x NK
Intermediate Joint	12.03	8.750	47.0	L-80	New Vam
Shoe Joint	12.50	8.750	47.0	L-80	New Vam

Personnel : on Site =97

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	R.King	OMV	7
Drilling Supervisor	J. Kenrick	Service Company	34
Sub Sea Engineer	W. Bates	Diamond Offshore	48
Testing Supervisor	M. Mulliner	Catering	8
Completion Supervisor	L. Taylor		
Reservior Engineer	A. Ion		
Drilling Engineer	H. Heinzle		

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER Czarny

SHAKER 1	4 x120
SHAKER 2	4 x 120
SHAKER 3	4 x 120
SHAKER 4	4 x 145
SHAKER 5	

VOLUME AVAILABLE (bbl) =			**1704**
ACTIVE	269	MIXING	
HOLE	447	SLUG	
RESERVE	988	HEAVY	

LOSSES (bbl) =	**0**
DOWNHOLE	
SURF. + EQUIP	0.00
DUMPED	

COMMENTS

Anchors

A 1	210	A 2	265	A 3	230	A 4	215	A 5	155
A 6	165	A7	270	A8	280				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	Standb	232	0	750	197	1188	838	
Pacific Sentinel	In Tran	216		421	114			

Weather

VISIBILITY(nm)	12
WIND SP. (kts)	16.0
WIND DIR (deg)	265
PRES.(mbars)	1006
AIR TEMP (C)	14.0

Rig / Sea Data

RIS.TENS (klbs)	216
VDL (mt)	2,054
WAVES (m)	1.5
SWELL (m)	2.4

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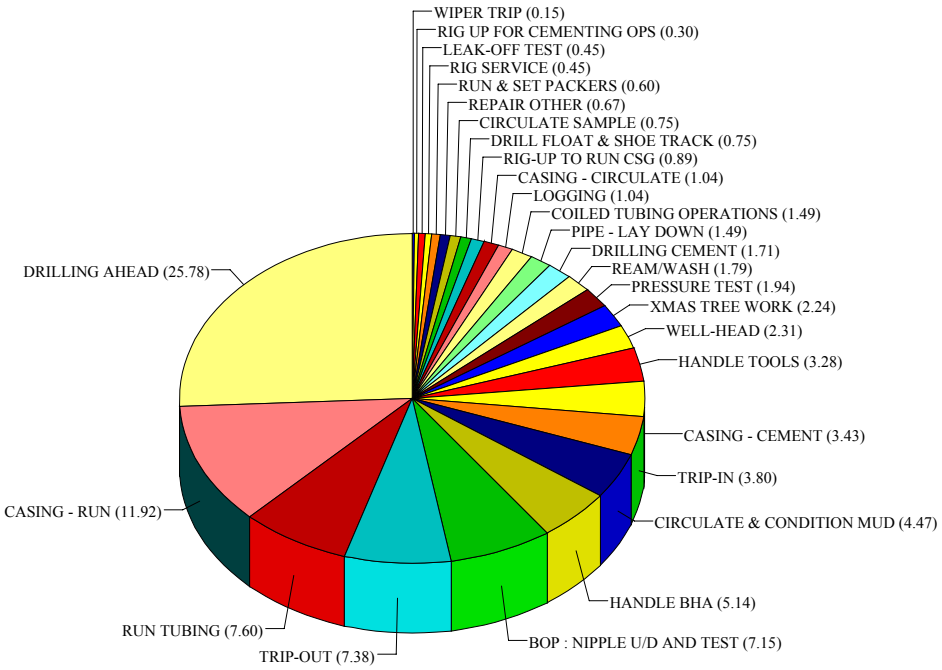
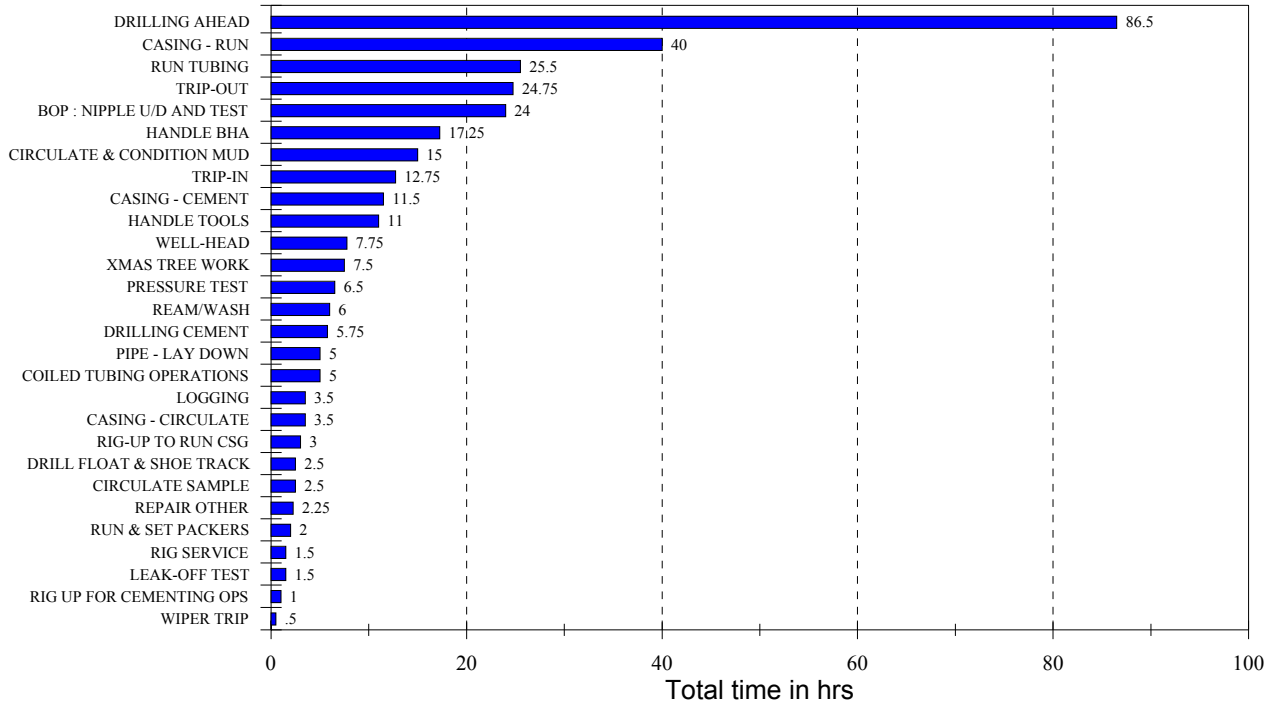
Total move time (hrs)	22.50	Total prod. time since spud (hrs) :	335.50
Total time on well excluding move (hrs)	372.00	Total troub. time since spud (hrs)	36.50
		% Trouble time	9.81

Productive Time by Op.



Productive time by Operation



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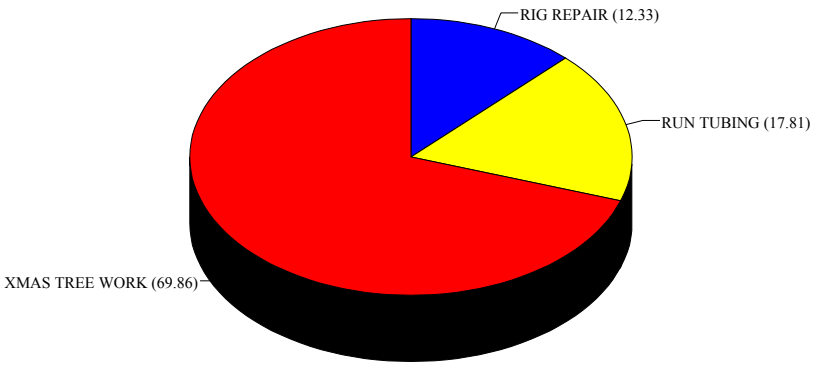
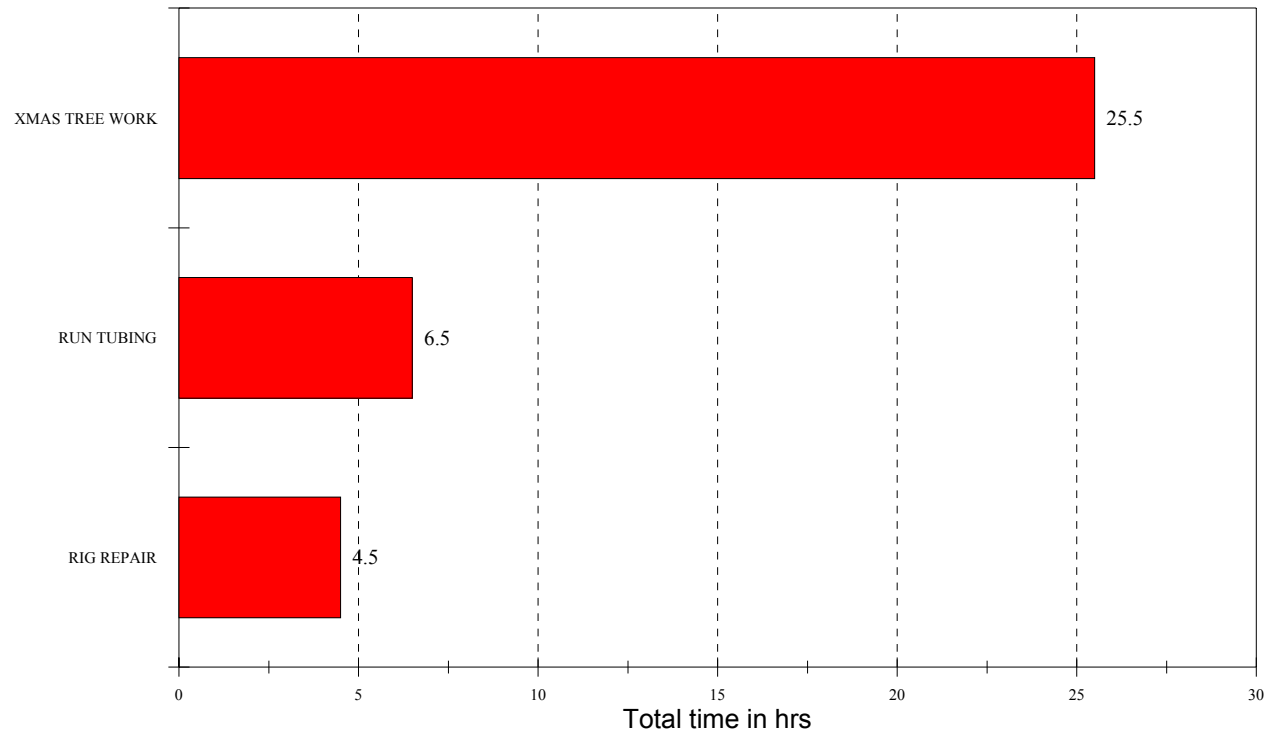


NPT by Operation



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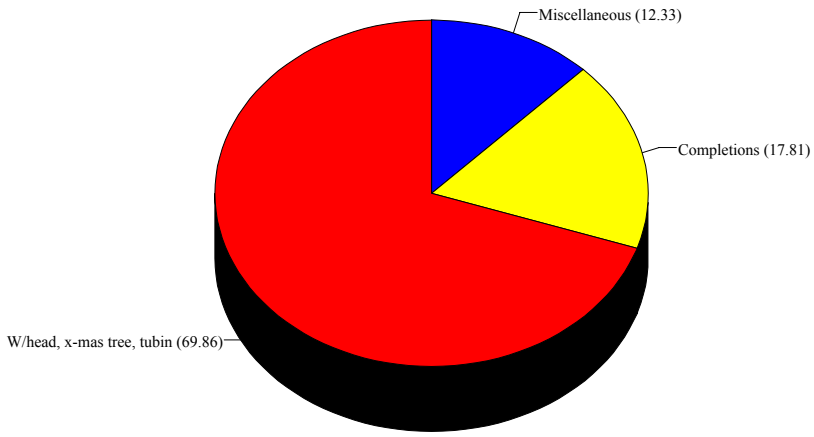
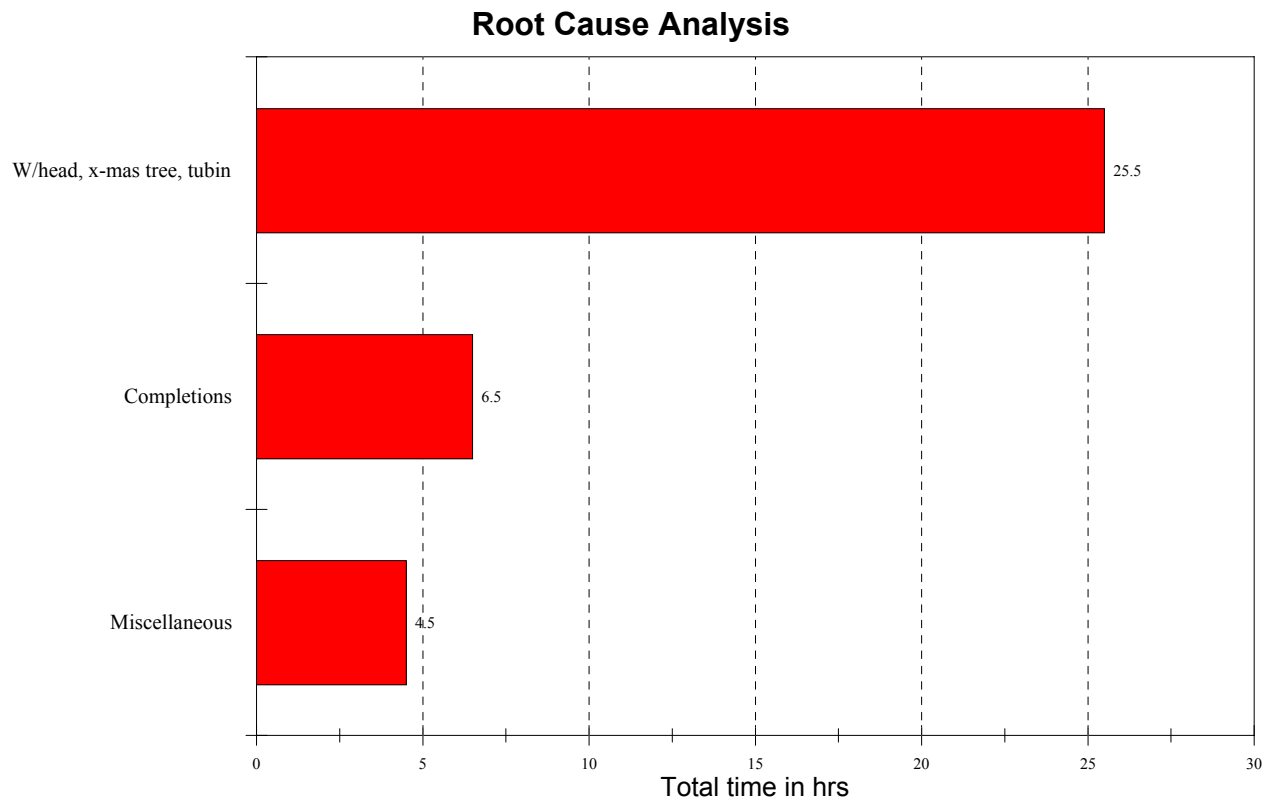
Root Cause Analysis





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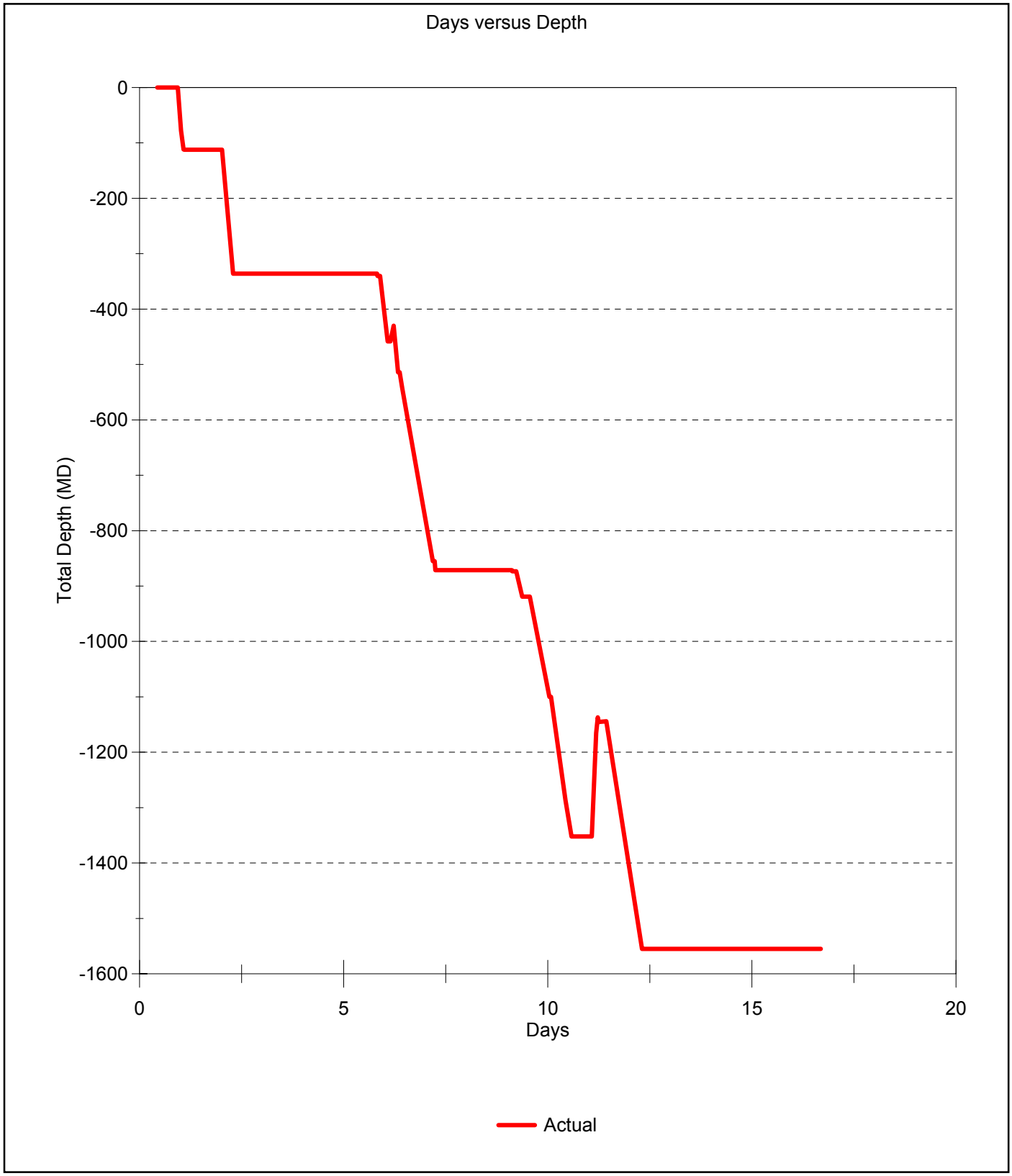
DEPTH @ 24:00 = 1,555.0m after 16.46 days since spud



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OMV

DAILY DRILLING REPORT # 18

DATE Jun 09, 2002

FROM : R. King / J. Kenrick
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	1,555.0	CUR. HOLE SIZE (")	8.50	AFE COST $	11,852,851
TVD (mBRT)	710.4	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
PROGRESS (m)		SHOE TVD (mBRT)	680	DAILY COST :	$368,367.00
DAYS ON WELL	17.46	FIT (sg)	1.41	CUM COST :	10,501,536.00
DAYS +/- CURVE	2.50	LOT (sg)	0.00		

CURRENT OP @ 0600 Running in hole with coiled tubing.

PLANNED OP. Rig down coiled tubing injector head. Rig up wireline & pull isolation sleeve. Run coiled tubing with surface read out gauges.

Summary of period 0000 to 2400 hrs

Rigged up CTU injector head and surface read out gauges. Attempted pressure test CTU BOP - unsuccessful. Repaired leak on coiled tubing riser. Lost communication with surface readout gauges - repaired fault. Confirmed communication with surface readout gauges, and pressure tested CTU BOP and riser to 3000psi - ok.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 09, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
CTB	P		CTO	00:00	01:00	1.00	1,555	Positioned coiled tubing unit in preparation for raising.
CTB	TP	RCS	CTO	01:00	08:00	7.00	1,555	Coiled tubing crew worked maximum hours allowed. Carried out rig maintenance & housekeeping whilst crew rest up.
CTB	P		CTO	08:00	14:00	6.00	1,555	Rigged up coiled tubing injector head. Rigged up surface read out gauges.
CTB	TP	RCS	CTO	14:00	18:00	4.00	1,555	Identified & rectified electrical fault on surface read out gauges. Attempted to pressure test coiled tubing unit BOP against swab valve/master valve. Repaired leak on coiled tubing riser. Communications lost with surface read out gauges.
CTB	TP	RCS	CTO	18:00	22:00	4.00	1,555	Rigged down & raised injector head. Repaired electrical fault on surface read out gauges.
CTB	TP	RCS	CTO	22:00	24:00	2.00	1,555	Rigged up coiled tubing injector head. Checked communication with surface read out gauges. Pressure tested coiled tubing BOP & riser to 3000psi for 10 minutes.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 10, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
CTB	TP	RCS	CTO	00:00	01:30	1.50	1,555	Ran in hole with coiled tubing to hold up depth. Unable to pass after numerous attempts. Displaced well from hold up depth to N2 & recorded 23bbls returned to surge tank.
CTB	TP	RCS	CTO	01:30	05:30	4.00	1,555	Pulled out of hole with coiled tubing & lifted injector head. Removed surface read out gauges & made up bullnose with circulating ports & crossovers. Filled coiled tubing with 1.12SG brine. Made up injector head & pressure tested to 3000psi for 10 minutes.
CTB	TP	RCS	CTO	05:30	06:00	.50	1,555	Ran in hole with coiled tubing. Verified hold up depth on manual counter on coiled tubing unit as 75.28m. Hold up depth suspected to be top of SSR isolation sleeve in tubing hanger.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	103.0	May 26, 2002	Jun 09, 2002	209.8	8.74	336.0	1,555.0
INTERMEDIATE HOLE (1)	54.3	May 29, 2002	Jun 01, 2002	264.0	11.00	340.0	871.0
INTERMEDIATE CASING (1)	25.0	May 31, 2002	Jun 01, 2002	289.0	12.04	871.0	871.0
PRODUCTION HOLE (1)	61.0	Jun 01, 2002	Jun 05, 2002	350.0	14.58	873.0	1,555.0
SIDETRACKING	29.5	Jun 03, 2002	Jun 04, 2002	379.5	15.81	1,137.0	1,555.0
PRODUCTION CSG/LNR(1)	39.0	Jun 05, 2002	Jun 07, 2002	418.5	17.44	1,555.0	1,555.0

DATE Jun 09, 2002

DAILY DRILLING REPORT # 18

BALEEN # 3

VIC/L21

WBM Data	COST TODAY :	CUM. WB MUD COST: $281,065	CUM. WBM+OBM COST: $281,065	
Type : **KCL Brine**	VISCOCITY (sec/qt) : 37	API FLUID LOSS (cm3/30min) :	Cl :	SOLIDS (%vol) :
FROM : PIT	PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
TIME : 12:00	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
WEIGHT (sg) : 1.12	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
TEMP (C) :	Fann 3/6/100 :		PM :	PH :
			PF :	PHPA (ppb) :

BHA # 4 **Length (ft) :**

WT BLW JAR(k-lbs):	STRING WT(k-lbs) :	TRQE MAX (ft-lbs):	D.C. (1) ANN. VELOCITY (mpm): 0
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	TRQE ON (ft-lbs):	D.C. (2) ANN VELOCITY (mpm): 0
	SLK 0FF WT(k-lbs) :	TRQE OFF (ft-lbs):	H.W.D.P. ANN VELOCITY (mpm): 0
			D.P. ANN VELOCITY (mpm) : 0

BHA DESCRIPTION :

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
1,460	712	85.35	232.	232.0	332.8	3.99	-181.6	-279.1	
1,489	714	89.87	231.	231.9	361.6	4.68	-199.4	-301.9	
1,517	713	93.80	232.	232.1	389.8	4.16	-216.9	-324.2	
1,546	710	95.32	232.	232.2	418.7	1.57	-234.7	-347.2	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	436			436
Bentonite	SX	1662			1662
G-neat	SX	1449			1449
G+35% SiFl	SX	0			0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	23	23	98
Drill Water	M3	469	14		455
Heli-fuel	ltr	2786			2786
Base Oil	M3				0
Rig Fuel	M3	468	8		460
Brine	M3				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00		97						
2	National	6.00		97						
3	National	6.00		97						

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	866.1 866.1	680.0 680.0		1.41 1.41	Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Displaced with 190 bbls, Bumped plug and pressure tested casing to 3,000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
9 5/8" Well head	2.33	8.750	47.0	L-80	New Vam
X / O Joint (NK3SB pin X N-VAM box)	3.17	8.750	47.0	L-80	N-Vam x NK
58 Joints 9 5/8" Casing	746.36	8.750	47.0	L-80	NK 3SB
Float joint	13.05	8.750	47.0	L-80	N-Vam x NK
Intermediate Joint	12.03	8.750	47.0	L-80	New Vam
Shoe Joint	12.50	8.750	47.0	L-80	New Vam

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DATE Jun 09, 2002

DAILY DRILLING REPORT # 18

BALEEN # 3

VIC/L21

Personnel : on Site =97

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	R.King	OMV	7
Drilling Supervisor	J. Kenrick	Service Company	34
Sub Sea Engineer	W. Bates	Diamond Offshore	48
Testing Supervisor	M. Mulliner	Catering	8
Completion Supervisor	L. Taylor		
Reservior Engineer	A. Ion		
Drilling Engineer	H. Heinzle		

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER Czarny

SHAKER 1	4 x120
SHAKER 2	4 x 120
SHAKER 3	4 x 120
SHAKER 4	4 x 145
SHAKER 5	

VOLUME AVAILABLE (bbl) = 1704

ACTIVE	269	MIXING	
HOLE	447	SLUG	
RESERVE	988	HEAVY	

LOSSES (bbl) = 0

DOWNHOLE	
SURF. + EQUIP	0.00
DUMPED	

COMMENTS

Anchors

A 1	215	A 2	265	A 3	230	A 4	220	A 5	170
A 6	175	A7	275	A8	285				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	Standby	228	0	750	192	1188	838	
Pacific Sentinel	In Tran	216		421	114			

Weather

VISIBILITY(nm)	12
WIND SP. (kts)	20.0
WIND DIR (deg)	285
PRES.(mbars)	1007
AIR TEMP (C)	15.0

Rig / Sea Data

RIS.TENS (klbs)	216
VDL (mt)	2,038
WAVES (m)	0.9
SWELL (m)	2.4

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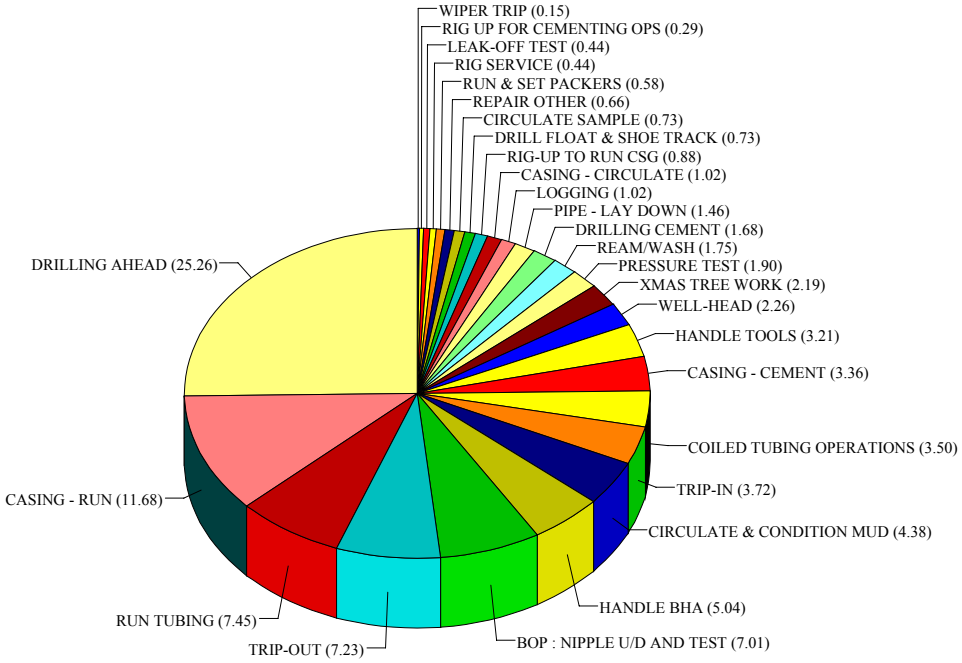
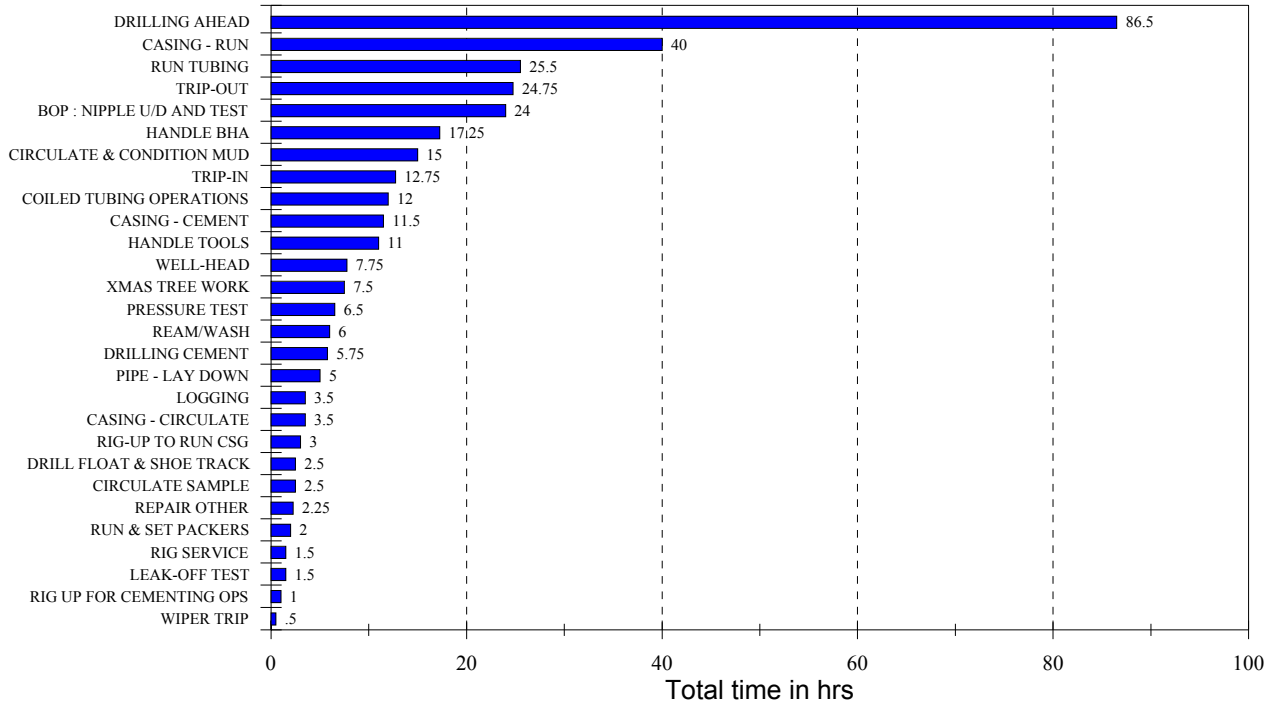
Total move time (hrs)	22.50	Total prod. time since spud (hrs) :	342.50
Total time on well excluding move (hrs)	396.00	Total troub. time since spud (hrs)	53.50
		% Trouble time	13.51

Productive Time by Op.



Productive time by Operation



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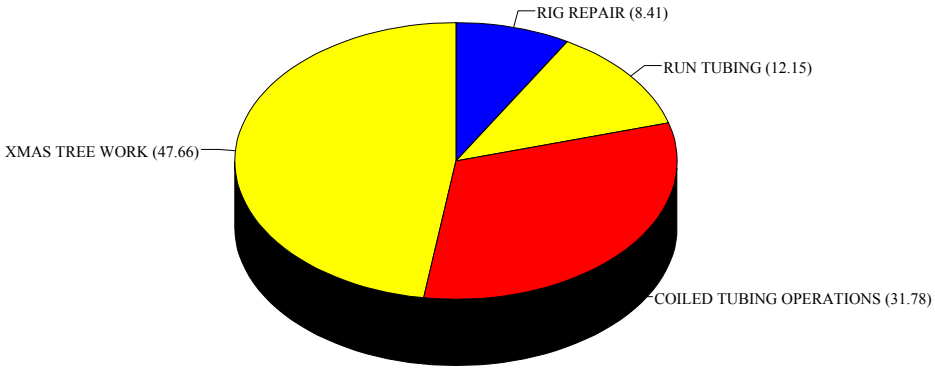
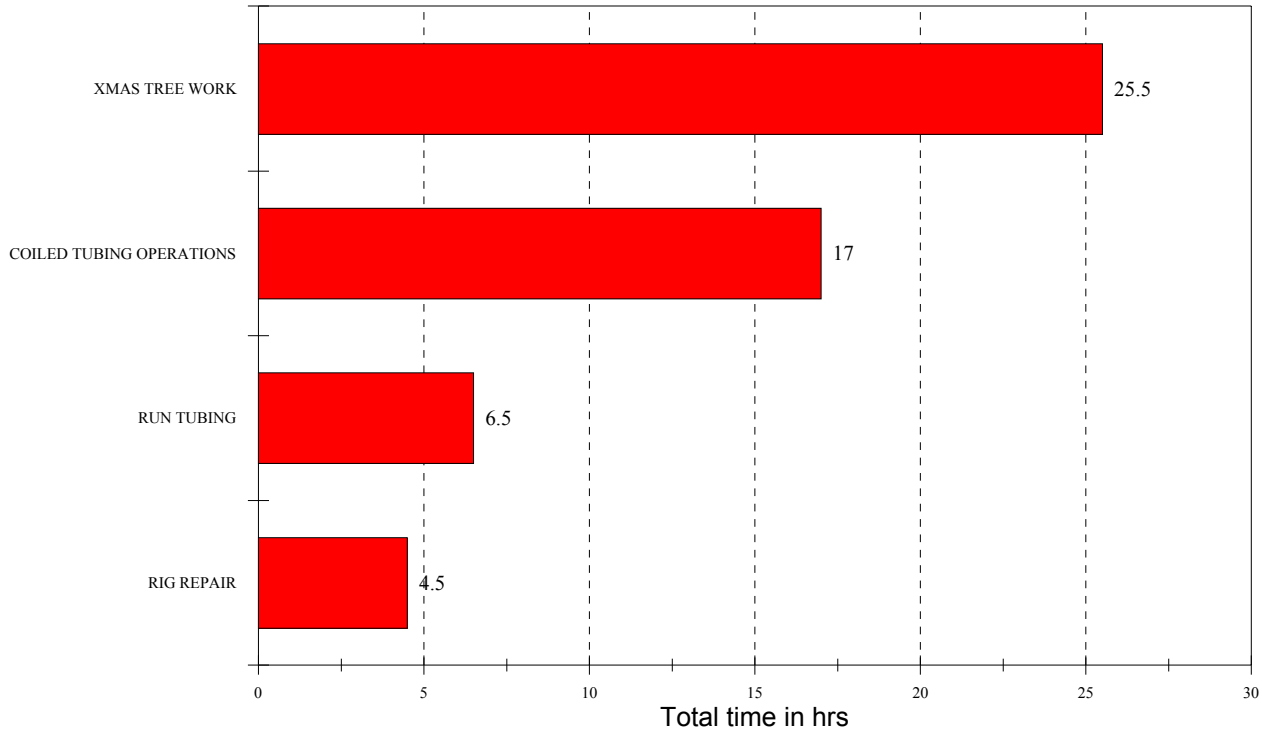


NPT by Operation



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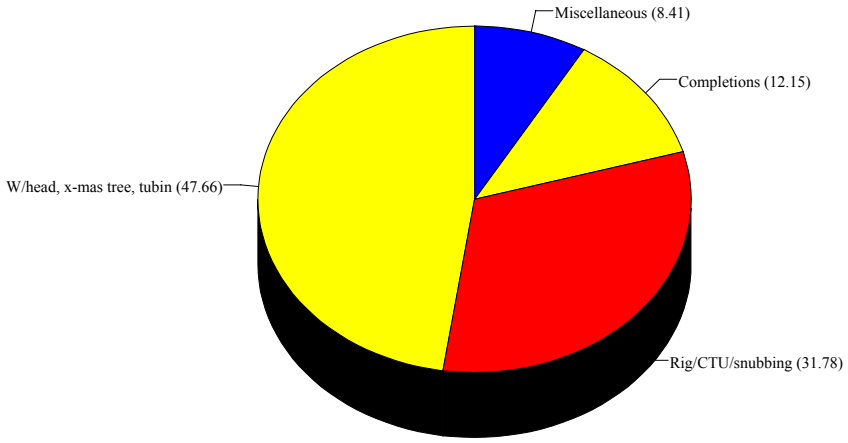
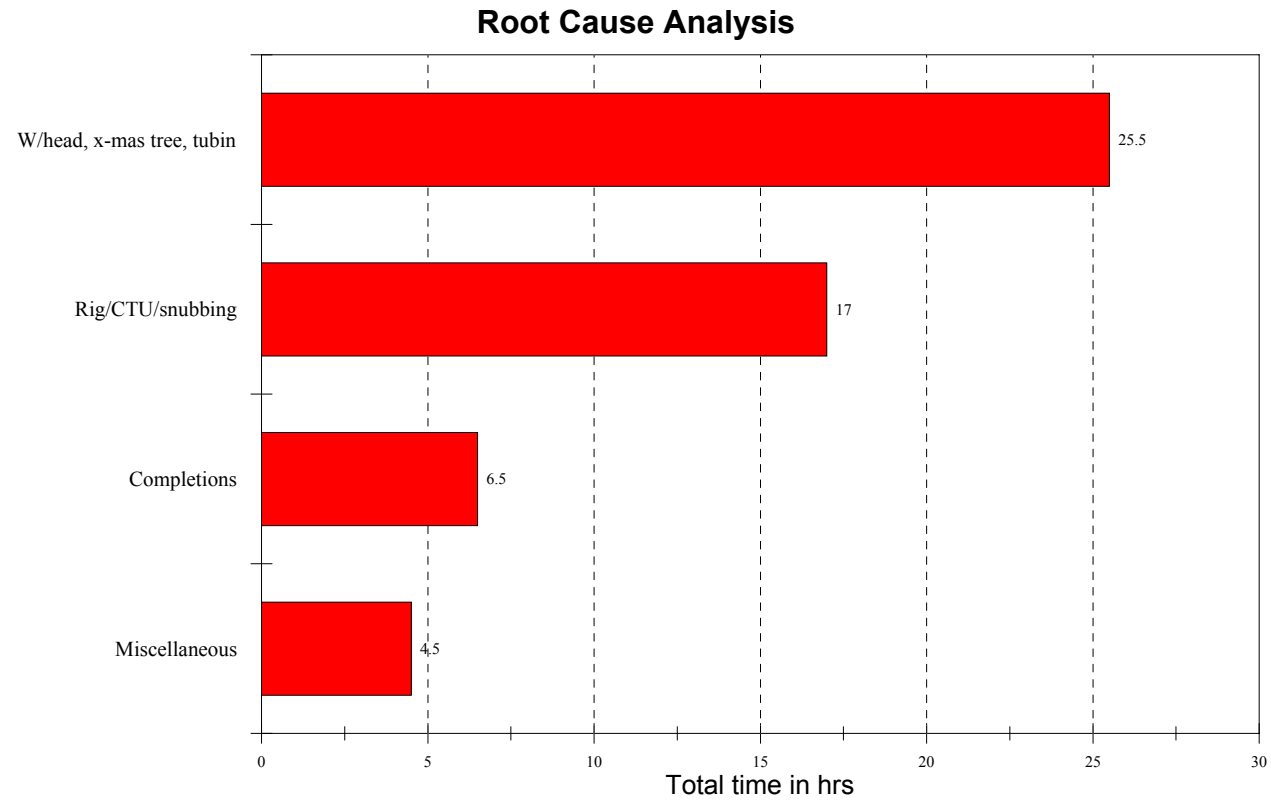
Root Cause Analysis





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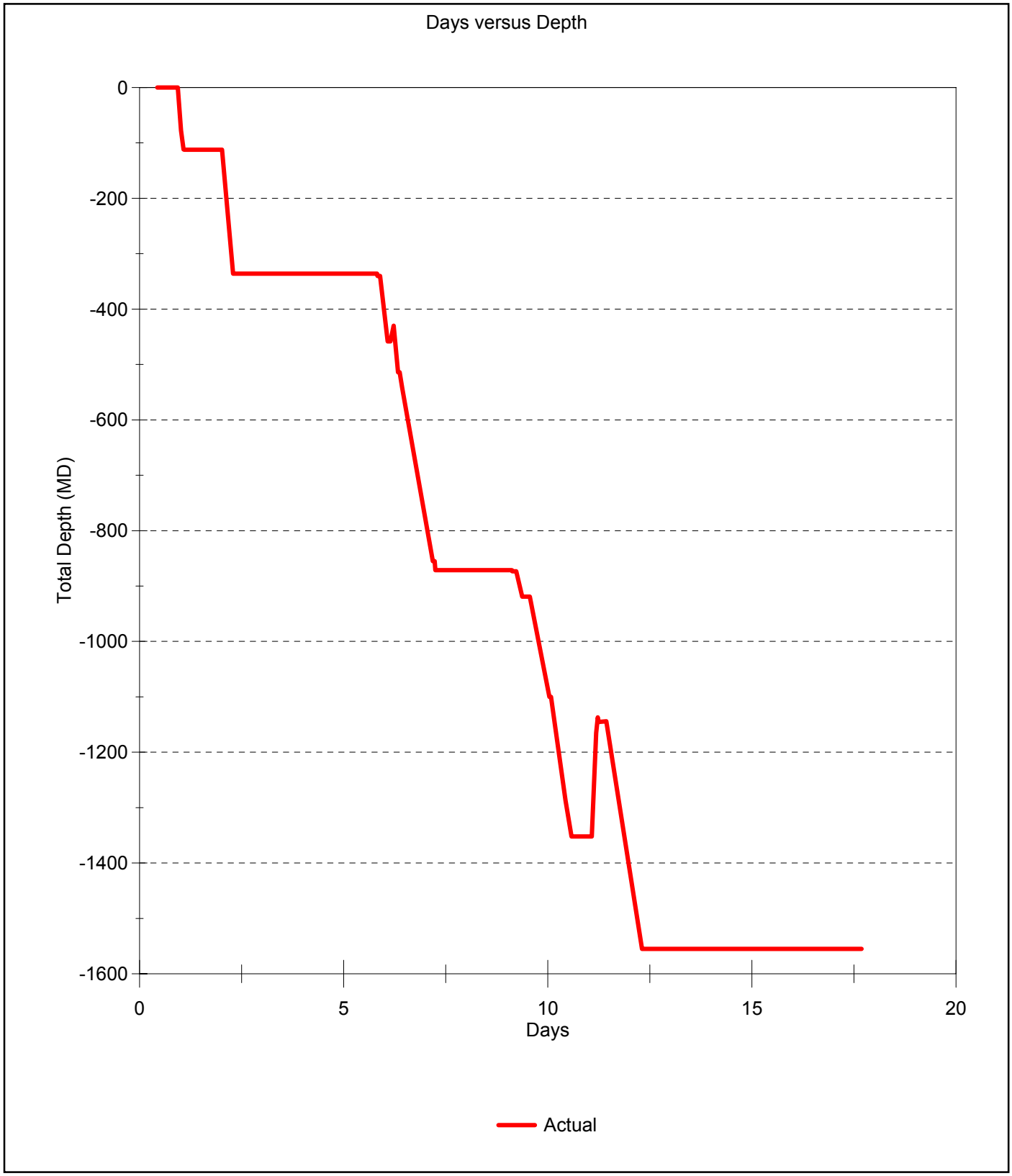
DEPTH @ 24:00 = 1,555.0m after 17.46 days since spud



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OMV

DAILY DRILLING REPORT # 19

DATE Jun 10, 2002

FROM : R. King / J. Kenrick
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	1,555.0	CUR. HOLE SIZE (")		AFE COST $	11,852,851
TVD (mBRT)	710.4	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
PROGRESS (m)		SHOE TVD (mBRT)	680	DAILY COST :	$389,493.00
DAYS ON WELL	18.46	FIT (sg)	1.41	CUM COST :	10,891,029.00
DAYS +/- CURVE	3.50	LOT (sg)	0.00		

CURRENT OP @ 0600 Change out surface read out gauges on coiled tubing.
PLANNED OP. Flow well.

Summary of period 0000 to 2400 hrs

Ran in hole with coiled tubing to hold up depth of 75.28m. Unable to pass. Pulled out of hole & made up bullnose & crossovers. Ran in hole to 75.28m. Attempted to work past hold up depth with no success. Pulled out of hole with coiled tubing & rigged down injector head. Rigged up slickline. Ran in hole & recovered SSR isolation sleeve. Ran in hole & drifted tubing to 4.25" to 250m. Pulled out of hole & rigged down slickline. Rigged up coiled tubing injector head. Ran in hole & displaced to N2 at 902m.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 10, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
CTB	TP	RCS	CTO	00:00	01:30	1.50	1,555	Ran in hole with coiled tubing to hold up depth. Unable to pass after numerous attempts. Displaced well from hold up depth to N2 & recorded 23bbls returned to surge tank.
CTB	TP	RCS	CTO	01:30	05:30	4.00	1,555	Pulled out of hole with coiled tubing & lifted injector head. Removed surface read out gauges & made up bullnose with circulating ports & crossovers. Filled coiled tubing with 1.12SG brine. Made up injector head & pressure tested to 3000psi for 10 minutes.
CTB	TP	RCS	CTO	05:30	06:30	1.00	1,555	Ran in hole with coiled tubing. Verified hold up depth on manual counter on coiled tubing unit of 75.28m. Hold up depth suspected to be top of SSR isolation sleeve in tubing hanger.
CTB	TP	RCS	CTO	06:30	08:00	1.50	1,555	Rigged up circulating lines from Halliburton. Circulated at 1/2bbl/minute & attempted to work coiled tubing past hold up depth of 75.28m with no success.
CTB	TP	RCS	CTO	08:00	10:30	2.50	1,555	Pulled out of hole with coiled tubing. Removed injector head coiled tubing BOP & riser.
CTB	P		SLK	10:30	13:00	2.50	1,555	Rigged up slickline. Pressure tested slickline BOP & riser to 3000psi for 10 minutes.
CTB	P		SLK	13:00	14:00	1.00	1,555	Ran in hole with slickline. Recovered SSR isolation sleeve & pulled out of hole. Removed isolation sleeve & made up 4.25" drift.
CTB	TP	RCS	SLK	14:00	14:30	.50	1,555	Ran in hole with slickline & 4.25" drift to 250m. Drifted SSSV & pulled out of hole with slickline.
CTB	TP	RCS	SLK	14:30	15:00	.50	1,555	Rigged down slickline.
CTB	TP	RCS	CTO	15:00	21:00	6.00	1,555	Rigged up coiled tubing BOP & injector head. Made up & tested surface read out gauges. Pressure tested coiled tubing riser against stuffing box to3000psi for 10 minutes.
CTB	P		CTO	21:00	24:00	3.00	1,555	Ran in hole with coiled tubing & surface read out gauges to 200m. Displaced well with N2 whilst running in hole. Lost communications with surface read out gauges at 547m. Ran in hole with coiled tubing to a total depth of 902m.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 11, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
CTB	P		CTO	00:00	01:00	1.00	1,555	Displaced well to N2 from 902m.
PT	P		FLO	01:00	03:00	2.00	1,555	Shut well in for initial shut in period.
PT	TP	DHT	FLO	03:00	04:00	1.00	1,555	Pulled out of hole with coiled tubing & surface read out gauges.
PT	TP	DHT	FLO	04:00	06:00	2.00	1,555	Closed SSLV & master valve. Bled down residual pressure above master valve through back pressure manifold. Broke out riser & raised coiled tubing injector head. Removed surface read out gauges.

DATE Jun 10, 2002

DAILY DRILLING REPORT # 19

BALEEN # 3

VIC/L21

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	127.0	May 26, 2002	Jun 10, 2002	233.8	9.74	336.0	1,555.0
INTERMEDIATE HOLE (1)	54.3	May 29, 2002	Jun 01, 2002	288.0	12.00	340.0	871.0
INTERMEDIATE CASING (1)	25.0	May 31, 2002	Jun 01, 2002	313.0	13.04	871.0	871.0
PRODUCTION HOLE (1)	61.0	Jun 01, 2002	Jun 05, 2002	374.0	15.58	873.0	1,555.0
SIDETRACKING	29.5	Jun 03, 2002	Jun 04, 2002	403.5	16.81	1,137.0	1,555.0
PRODUCTION CSG/LNR(1)	39.0	Jun 05, 2002	Jun 07, 2002	442.5	18.44	1,555.0	1,555.0

WBM Data

COST TODAY :

CUM. WB MUD COST: $281,065

CUM. WBM+OBM COST: $281,065

Type : **KCL Brine**	VISCOCITY (sec/qt) : 37	API FLUID LOSS (cm3/30min) :	Cl :	SOLIDS (%vol) :
	PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
FROM : PIT	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
TIME : 12:00	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
WEIGHT (sg) : 1.12			PM :	PH :
TEMP (C) :	Fann 3/6/100 :		PF :	PHPA (ppb) :

BHA # . Length (ft) :

WT BLW JAR(k-lbs):	STRING WT(k-lbs) :	TRQE MAX (ft-lbs):	D.C. (1) ANN. VELOCITY (mpm): 0
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	TRQE ON (ft-lbs):	D.C. (2) ANN VELOCITY (mpm): 0
	SLK 0FF WT(k-lbs) :	TRQE OFF (ft-lbs):	H.W.D.P. ANN VELOCITY (mpm): 0
			D.P. ANN VELOCITY (mpm) : 0

BHA DESCRIPTION :

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
1,460	712	85.35	232.	232.0	332.8	3.99	-181.6	-279.1	
1,489	714	89.87	231.	231.9	361.6	4.68	-199.4	-301.9	
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1,546	710	95.32	232.	232.2	418.7	1.57	-234.7	-347.2	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	436			436
Bentonite	SX	1662			1662
G-neat	SX	1449			1449
G+35% SiFl	SX	0			0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	22	22	98
Drill Water	M3	455	28		427
Heli-fuel	ltr	2786	381		2405
Base Oil	M3				0
Rig Fuel	M3	460	7		452
Brine	M3				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00		97						
2	National	6.00		97						
3	National	6.00		97						

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Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	866.1 866.1	680.0 680.0		1.41 1.41	Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Displaced with 190 bbls, Bumped plug and pressure tested casing to 3,000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
9 5/8" Well head	2.33	8.750	47.0	L-80	New Vam
X / O Joint (NK3SB pin X N-VAM box)	3.17	8.750	47.0	L-80	N-Vam x NK
58 Joints 9 5/8" Casing	746.36	8.750	47.0	L-80	NK 3SB
Float joint	13.05	8.750	47.0	L-80	N-Vam x NK
Intermediate Joint	12.03	8.750	47.0	L-80	New Vam
Shoe Joint	12.50	8.750	47.0	L-80	New Vam

Personnel : on Site =97

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	R.King	OMV	7
Drilling Supervisor	J. Kenrick	Service Company	34
Sub Sea Engineer	W. Bates	Diamond Offshore	48
Testing Supervisor	M. Mulliner	Catering	8
Completion Supervisor	L. Taylor		
Reservior Engineer	A. Ion		
Drilling Engineer	H. Heinzle		

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER Czarny

SHAKER 1	4 x120
SHAKER 2	4 x 120
SHAKER 3	4 x 120
SHAKER 4	4 x 145
SHAKER 5	

VOLUME AVAILABLE (bbl) = 1634

ACTIVE	269	MIXING	
HOLE	447	SLUG	
RESERVE	918	HEAVY	

LOSSES (bbl) = 0

DOWNHOLE	
SURF. + EQUIP	0.00
DUMPED	

COMMENTS

Anchors

A 1	255	A 2	305	A 3	245	A 4	230	A 5	155
A 6	160	A7	260	A8	280				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	Standb	222	0	690	192	1188	838	
Pacific Sentinel	Geelon	216		421	114			

Weather

VISIBILITY(nm)	14
WIND SP. (kts)	30.0
WIND DIR (deg)	260
PRES.(mbars)	1007
AIR TEMP (C)	15.0

Rig / Sea Data

RIS.TENS (klbs)	216
VDL (mt)	2,061
WAVES (m)	0.9
SWELL (m)	2.7

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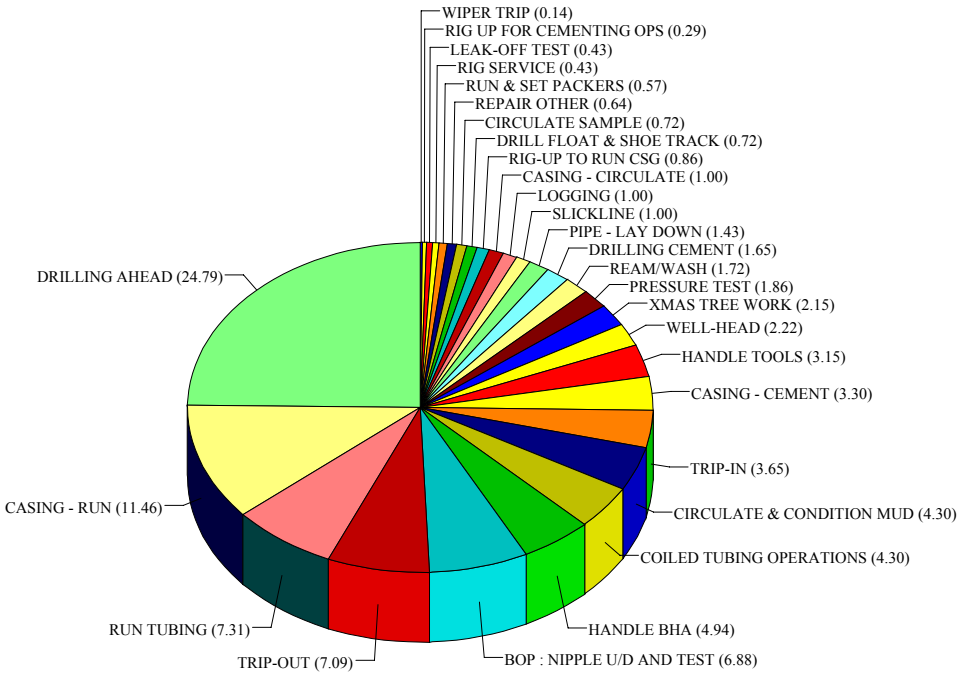
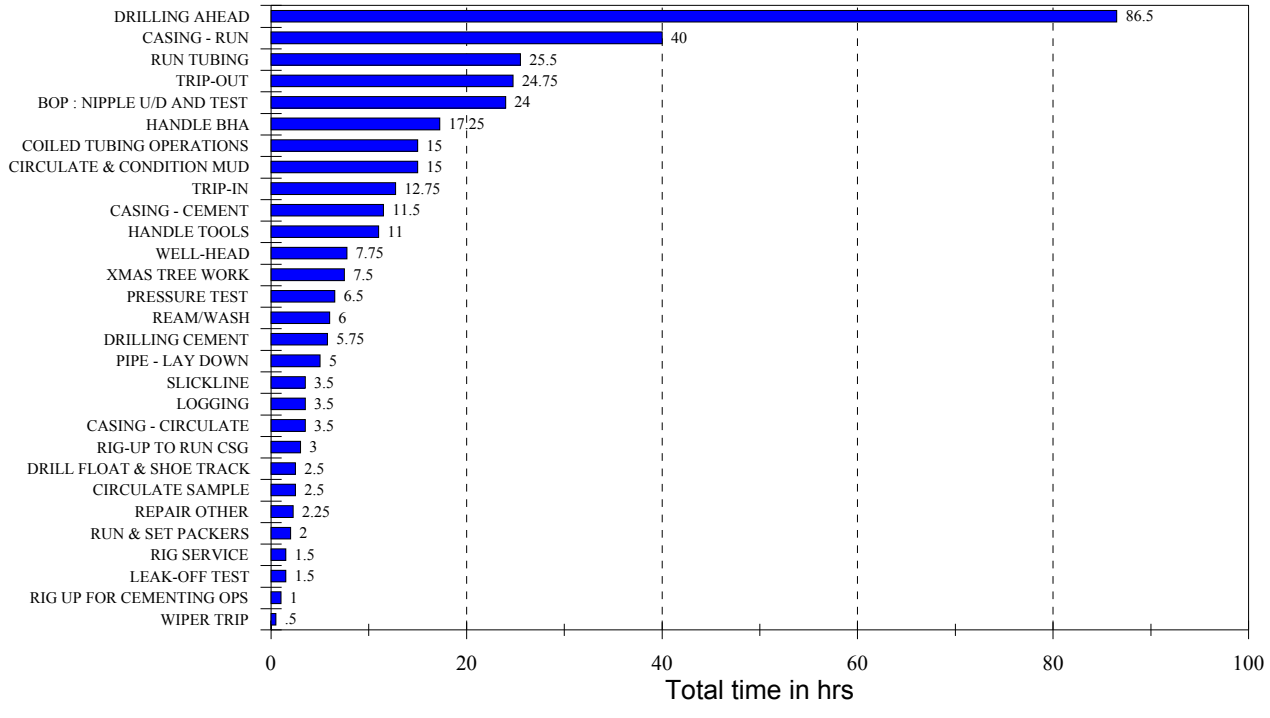
Total move time (hrs)	22.50	Total prod. time since spud (hrs) :	349.00
Total time on well excluding move (hrs)	420.00	Total troub. time since spud (hrs)	71.00
		% Trouble time	16.90

Productive Time by Op.



Productive time by Operation



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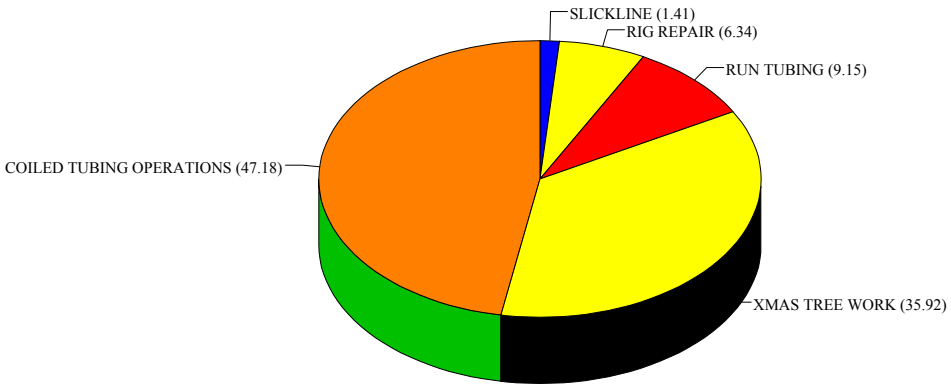
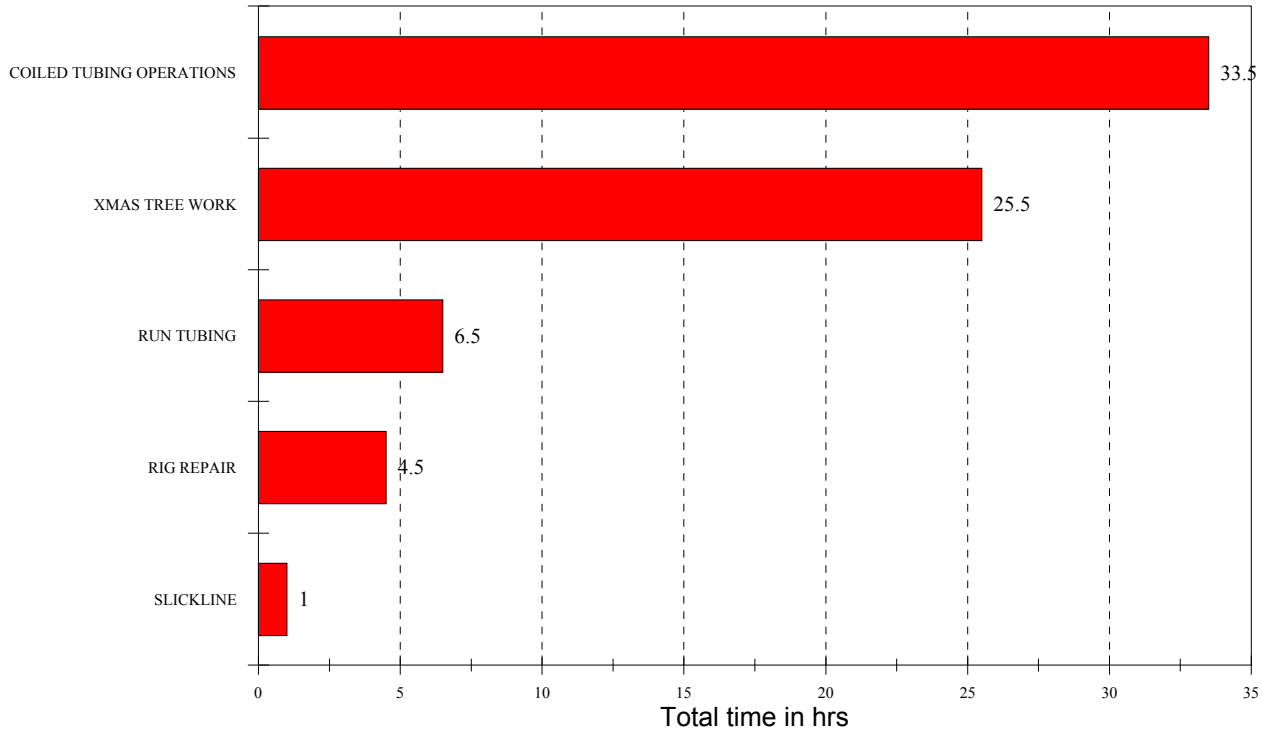
Trouble Time by Op.



NPT by Operation



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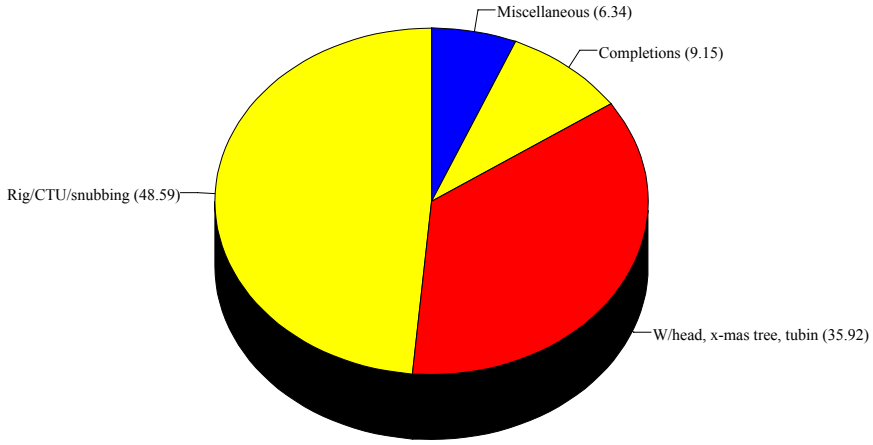
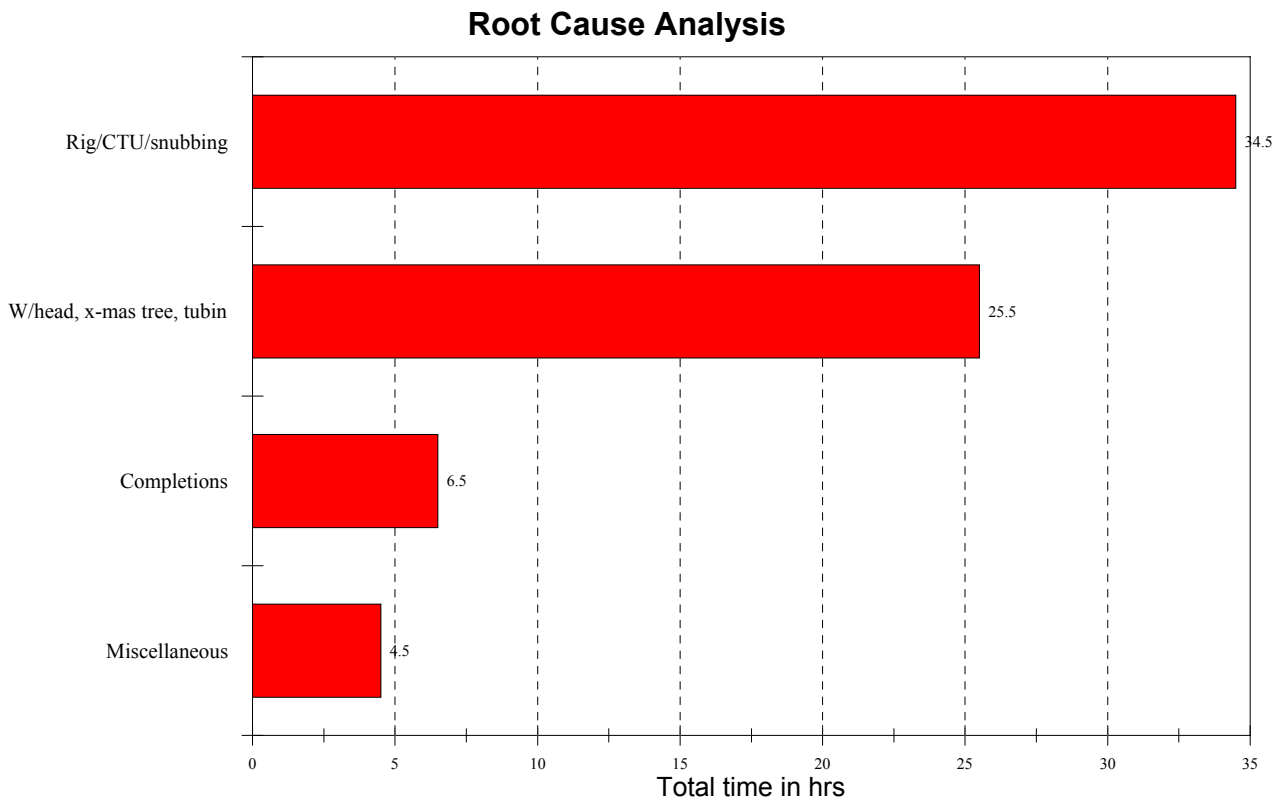
Root Cause Analysis





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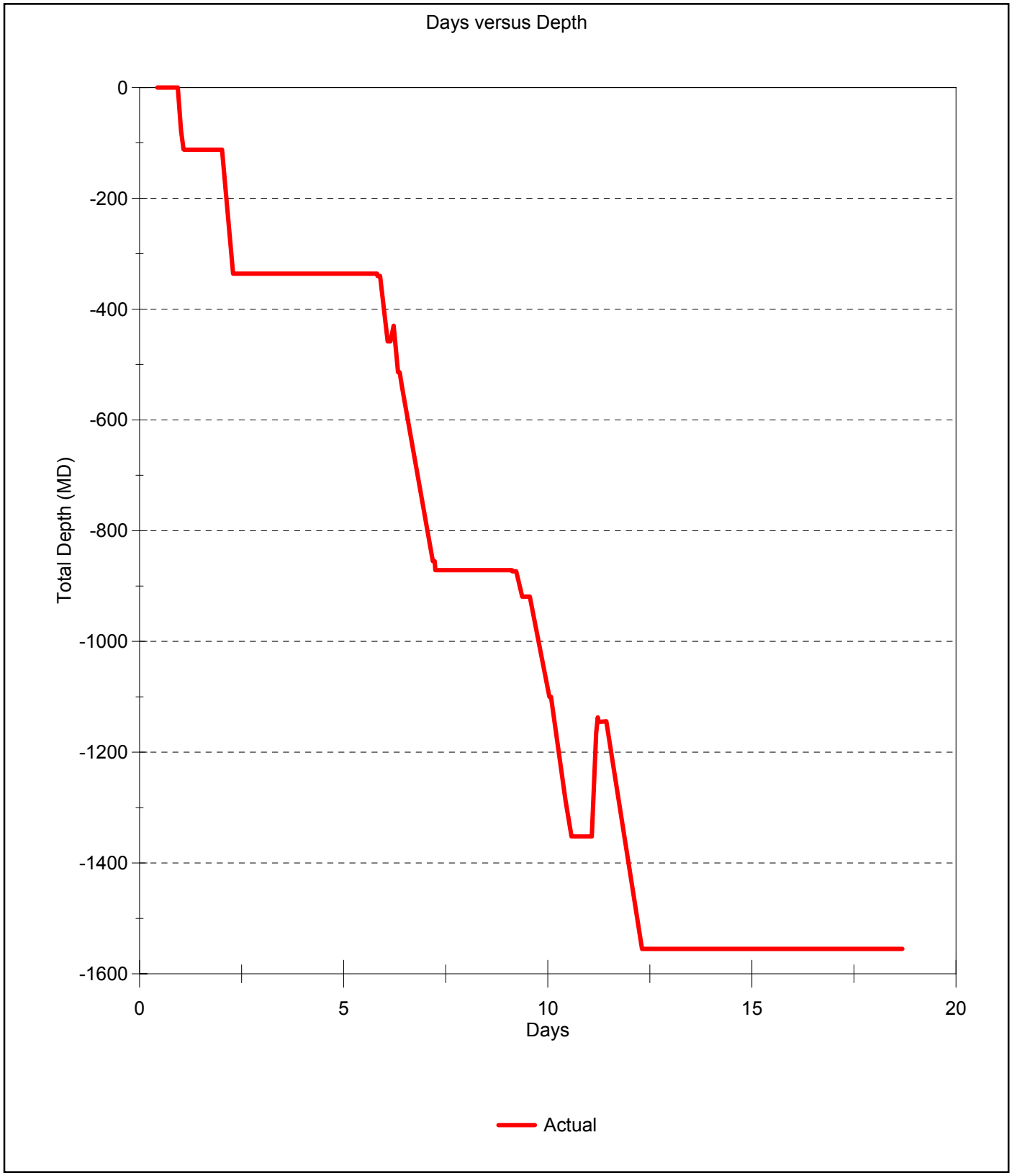
DEPTH @ 24:00 = 1,555.0m after 18.46 days since spud



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OMV

DAILY DRILLING REPORT # 20

DATE Jun 11, 2002

FROM : G. Howard / J. Kenrick
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	1,555.0	CUR. HOLE SIZE (")		AFE COST $	11,852,851
TVD (mBRT)	710.4	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
PROGRESS (m)		SHOE TVD (mBRT)	680	DAILY COST :	$374,685.00
DAYS ON WELL	19.46	FIT (sg)	1.41	CUM COST :	11,265,714.00
DAYS +/- CURVE	3.50	LOT (sg)	0.00		

CURRENT OP @ 0600 Flow well for clean up flow period.

PLANNED OP. Complete clean up period. Shut well in for second build up period. Open well for main flow period.

Summary of period 0000 to 2400 hrs

Displaced well to N2. Shut well in for initial shut in period. Pulled out of hole with coiled tubing surface read out gauges. Changed out surface read out gauges. Ran in hole with coiled tubing & surface read out gauges to 902m. Opened choke & flowed well for clean up flow period.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 11, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
CTB	P		CTO	00:00	01:00	1.00	1,555	Displaced well to N2 from 902m.
PT	P		FLO	01:00	03:00	2.00	1,555	Shut well in for initial shut in period.
PT	TP	DHT	FLO	03:00	04:00	1.00	1,555	Pulled out of hole with coiled tubing & surface read out gauges.
PT	TP	DHT	FLO	04:00	07:00	3.00	1,555	Closed SSLV & master valve. Bled down residual pressure above master valve through back pressure manifold. Broke out riser & raised coiled tubing injector head. Removed surface read out gauges.
PT	TP	DHT	FLO	07:00	10:00	3.00	1,555	Downloaded surface read out gauges. Checked cable head. Installed backup surface read out gauges & confidence tested. Made up & attempted to pressure test coiled tubing riser. Replaced seal on riser between coiled tubing BOP & injector head.
PT	TP	DHT	FLO	10:00	10:30	.50	1,555	Pressure tested coiled tubing riser to 3000psi for 10 minutes.
PT	TP	DHT	FLO	10:30	12:30	2.00	1,555	Ranin hole with coiled tubing & surface read out gauges to 902m. Held pre-flow safety meeting.
PT	P		FLO	12:30	24:00	11.50	1,555	Opened choke & flowed well for clean up flow period. (Choke opened at 12:42hrs)

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 12, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PT	P		FLO	00:00	06:00	6.00	1,555	Flowed well for clean up flow period.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	128.0	May 26, 2002	Jun 11, 2002	234.8	9.78	336.0	1,555.0
INTERMEDIATE HOLE (1)	54.3	May 29, 2002	Jun 01, 2002	289.0	12.04	340.0	871.0
INTERMEDIATE CASING (1)	25.0	May 31, 2002	Jun 01, 2002	314.0	13.08	871.0	871.0
PRODUCTION HOLE (1)	61.0	Jun 01, 2002	Jun 05, 2002	375.0	15.63	873.0	1,555.0
SIDETRACKING	29.5	Jun 03, 2002	Jun 04, 2002	404.5	16.85	1,137.0	1,555.0
PRODUCTION CSG/LNR(1)	39.0	Jun 05, 2002	Jun 07, 2002	443.5	18.48	1,555.0	1,555.0
PRODUCTION TEST	23.0	Jun 11, 2002	Jun 11, 2002	466.5	19.44	1,555.0	1,555.0

WBM Data COST TODAY : CUM. WB MUD COST: $281,065 CUM. WBM+OBM COST: $281,065

Type : **KCL Brine**	VISCOCITY (sec/qt) : 37	API FLUID LOSS (cm3/30min) :	Cl :	SOLIDS (%vol) :
FROM : PIT	PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
TIME : 12:00	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
WEIGHT (sg) : 1.12	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
TEMP (C) :	Fann 3/6/100 :		PM :	PH :
			PF :	PHPA (ppb) :

DATE Jun 11, 2002

DAILY DRILLING REPORT # 20

BALEEN # 3

VIC/L21

Bit Data for Bit # **IADC #**

Wear	I	O1	D	L	B	G	O2	R

SIZE (") :

MANUFACTURER :

TYPE :

SERIAL # :

DEPTH IN (m RT) :

DEPTH OUT (m RT) :

AVE WOB (k-lbs) :

AVE RPM :

FLOW (gpm) :

PUMP PRESS. (psi):

HSI (hp/sqi) :

NOZZLES	Drilled over the last 24 hrs		Calculated over the bit run	
x	METERAGE (m) :	0	CUM.METERAGE (m)	0
x	ON BOTTOM HRS :	.0	CUM. ON BOT. HRS :	.0
x	IADC DRILL. HRS :	.0	CUM.IADC DRILL HRS:	.0
x	TOTAL REVS :	0	CUM.TOT. REVS :	0
x	ROP (m/hr):		ROP (m/hr):	

BHA # . **Length (ft) :**

WT BLW JAR(k-lbs):

BHA WT(k-lbs) :

STRING WT(k-lbs) :

PICK UP WT(k-lbs) :

SLK 0FF WT(k-lbs) :

TRQE MAX (ft-lbs):

TRQE ON (ft-lbs):

TRQE OFF (ft-lbs):

D.C. (1) ANN. VELOCITY (mpm): 0

D.C. (2) ANN VELOCITY (mpm): 0

H.W.D.P. ANN VELOCITY (mpm): 0

D.P. ANN VELOCITY (mpm) : 0

BHA DESCRIPTION :

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
1,460	712	85.35	232.	232.0	332.8	3.99	-181.6	-279.1	
1,489	714	89.87	231.	231.9	361.6	4.68	-199.4	-301.9	
1,517	713	93.80	232.	232.1	389.8	4.16	-216.9	-324.2	
1,546	710	95.32	232.	232.2	418.7	1.57	-234.7	-347.2	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	436			436
Bentonite	SX	1662			1662
G-neat	SX	1449			1449
G+35% SiFl	SX	0			0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	93	93	98
Drill Water	M3	427	8		419
Heli-fuel	ltr	2405	229		2176
Base Oil	M3				0
Rig Fuel	M3	452	11		442
Brine	M3				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00		97						
2	National	6.00		97						
3	National	6.00		97						

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	866.1 866.1	680.0 680.0		1.41 1.41	Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Displaced with 190 bbls, Bumped plug and pressure tested casing to 3,000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
9 5/8" Well head	2.33	8.750	47.0	L-80	New Vam
X / O Joint (NK3SB pin X N-VAM box)	3.17	8.750	47.0	L-80	N-Vam x NK
58 Joints 9 5/8" Casing	746.36	8.750	47.0	L-80	NK 3SB
Float joint	13.05	8.750	47.0	L-80	N-Vam x NK
Intermediate Joint	12.03	8.750	47.0	L-80	New Vam
Shoe Joint	12.50	8.750	47.0	L-80	New Vam

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DATE Jun 11, 2002

DAILY DRILLING REPORT # 20

BALEEN # 3

VIC/L21

Personnel : on Site =97

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	7
Drilling Supervisor	J. Kenrick	Service Company	34
Sub Sea Engineer	W. Bates	Diamond Offshore	48
Testing Supervisor	M. Mulliner	Catering	8
Completion Supervisor	L. Taylor		
Reservior Engineer	A. Ion		
Drilling Engineer	H. Heinzle		

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER G. Garrick

SHAKER 1	4 x120
SHAKER 2	4 x 120
SHAKER 3	4 x 120
SHAKER 4	4 x 145
SHAKER 5	

VOLUME AVAILABLE (bbl) = 1634

ACTIVE	269	MIXING	
HOLE	447	SLUG	
RESERVE	918	HEAVY	

LOSSES (bbl) = 0

DOWNHOLE	
SURF. + EQUIP	0.00
DUMPED	

COMMENTS

Anchors

A 1	210	A 2	255	A 3	225	A 4	210	A 5	160
A 6	180	A7	285	A8	295				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	In Trans	218	0	690	190	1188	838	
Pacific Sentinel	Standby	175		510	95	1190		250

Weather

VISIBILITY(nm)	16
WIND SP. (kts)	12.0
WIND DIR (deg)	285
PRES.(mbars)	1007
AIR TEMP (C)	16.0

Rig / Sea Data

RIS.TENS (klbs)	216
VDL (mt)	2,045
WAVES (m)	0.3
SWELL (m)	1.5

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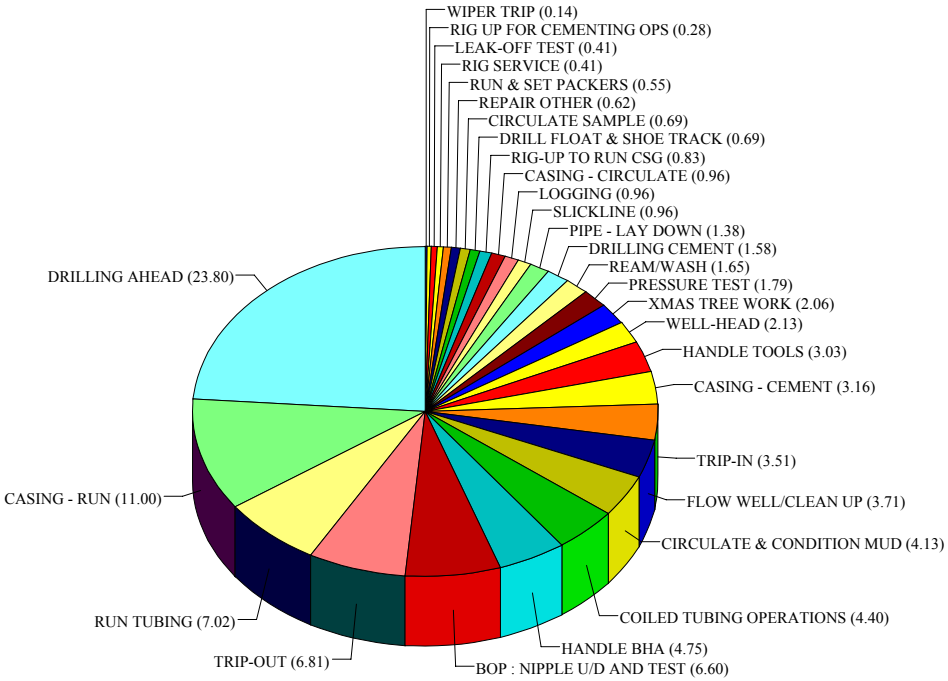
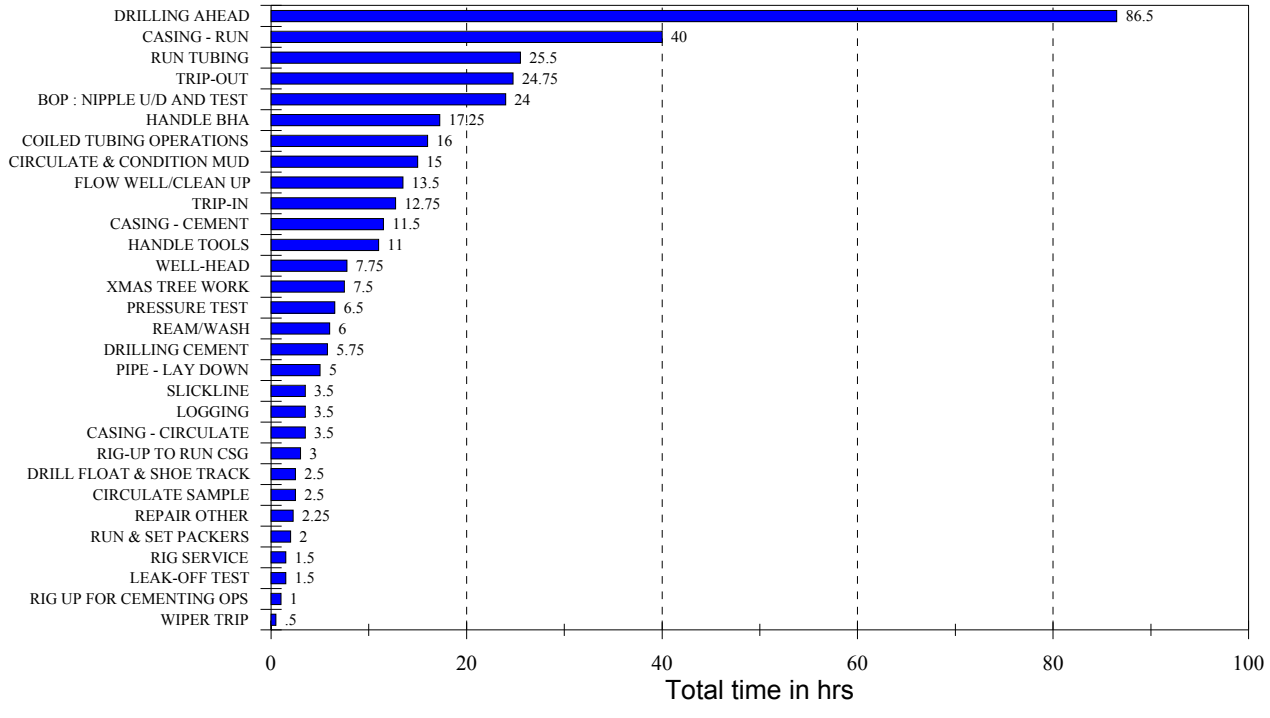
Total move time (hrs)	22.50	Total prod. time since spud (hrs) :	363.50
Total time on well excluding move (hrs)	444.00	Total troub. time since spud (hrs)	80.50
		% Trouble time	18.13

Productive Time by Op.



Productive time by Operation



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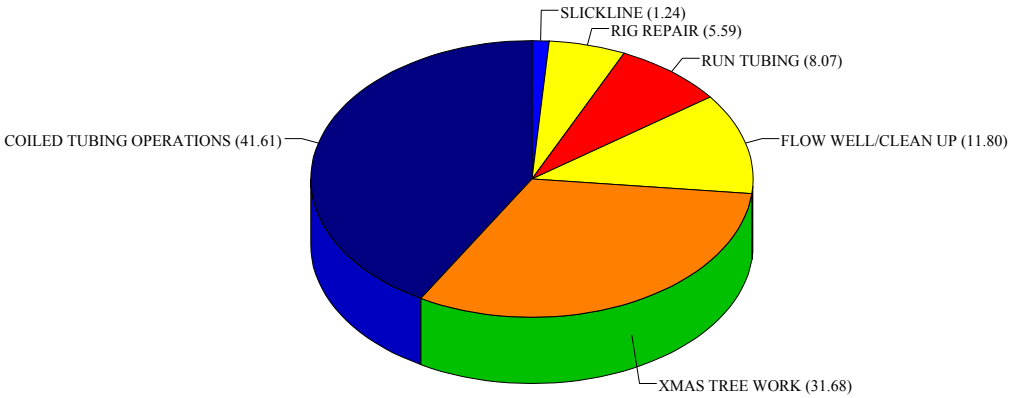
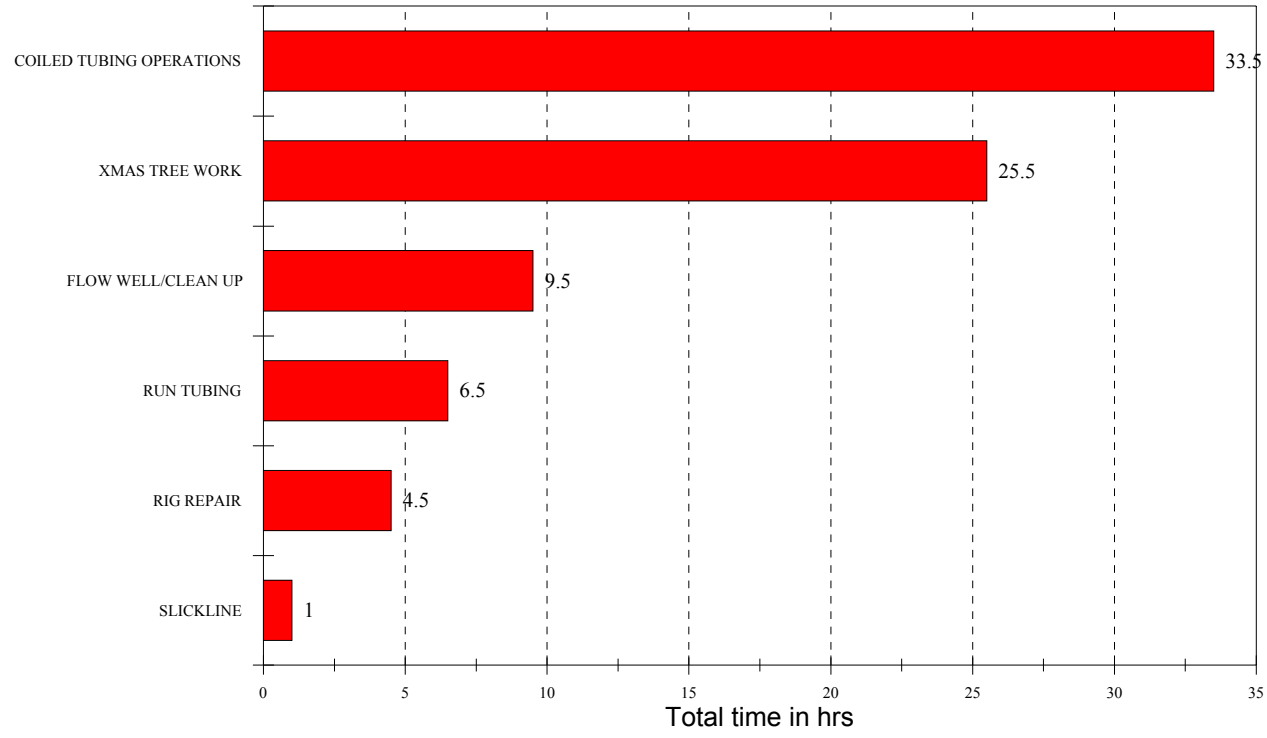
Trouble Time by Op.



NPT by Operation



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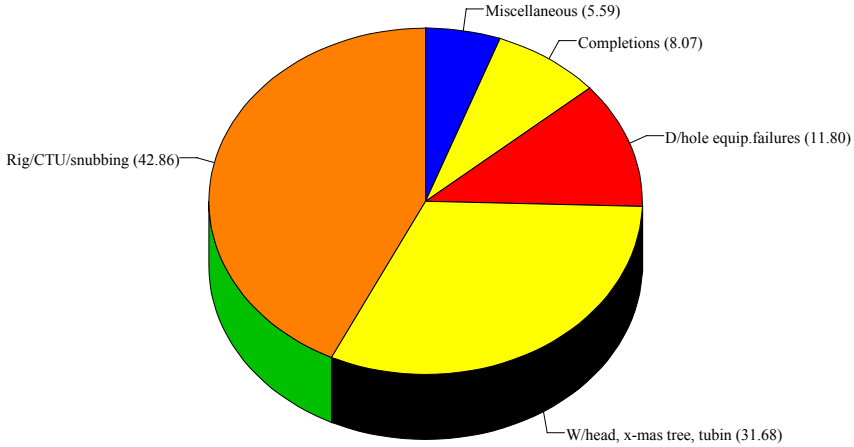
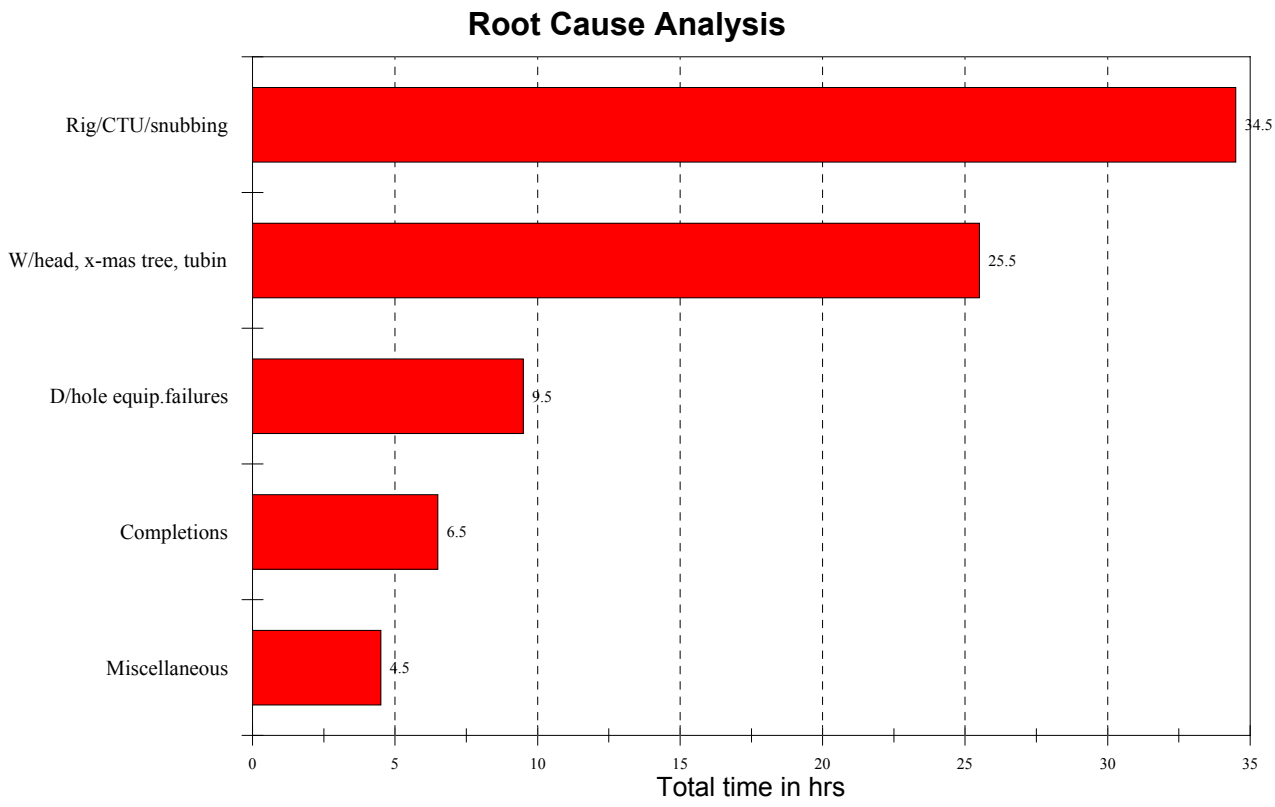
Root Cause Analysis





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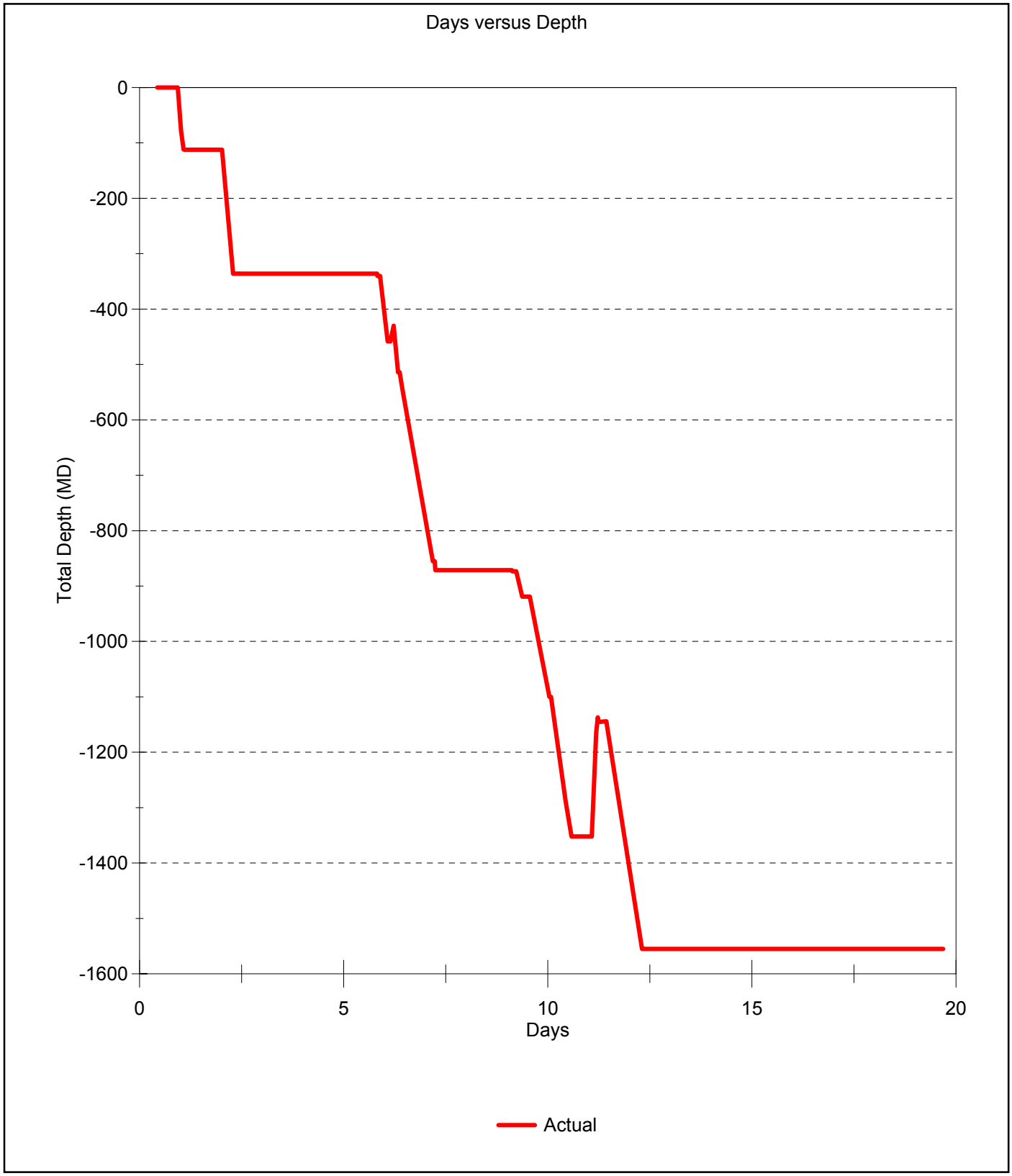
DEPTH @ 24:00 = 1,555.0m after 19.46 days since spud



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OMV

DAILY DRILLING REPORT # 21

DATE Jun 12, 2002

FROM : G. Howard / J. Kenrick
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	1,555.0	CUR. HOLE SIZE (")		AFE COST $	11,852,851
TVD (mBRT)	710.4	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
PROGRESS (m)		SHOE TVD (mBRT)	680	DAILY COST :	$387,409.00
DAYS ON WELL	20.46	FIT (sg)	1.41	CUM COST :	11,653,123.00
DAYS +/- CURVE	3.00	LOT (sg)	0.00		

CURRENT OP @ 0600 Flowing well for main flow period.
PLANNED OP. Flow well.

Summary of period 0000 to 2400 hrs

Flowed well for clean up period. Shut well in for main shut in period.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 12, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PT	P		FLO	00:00	22:00	22.00	1,555	Flowed well for clean up flow period.
PT	P		FLO	22:00	24:00	2.00	1,555	Shut well in at choke for main build up period.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 13, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PT	P		FLO	00:00	02:00	2.00	1,555	Well shut in for build up period.
PT	P		FLO	02:00	06:00	4.00	1,555	Opened choke & flowed well for main flow period.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	128.0	May 26, 2002	Jun 11, 2002	234.8	9.78	336.0	1,555.0
INTERMEDIATE HOLE (1)	54.3	May 29, 2002	Jun 01, 2002	289.0	12.04	340.0	871.0
INTERMEDIATE CASING (1)	25.0	May 31, 2002	Jun 01, 2002	314.0	13.08	871.0	871.0
PRODUCTION HOLE (1)	61.0	Jun 01, 2002	Jun 05, 2002	375.0	15.63	873.0	1,555.0
SIDETRACKING	29.5	Jun 03, 2002	Jun 04, 2002	404.5	16.85	1,137.0	1,555.0
PRODUCTION CSG/LNR(1)	39.0	Jun 05, 2002	Jun 07, 2002	443.5	18.48	1,555.0	1,555.0
PRODUCTION TEST	47.0	Jun 11, 2002	Jun 12, 2002	490.5	20.44	1,555.0	1,555.0

WBM Data COST TODAY : CUM. WB MUD COST: $281,065 CUM. WBM+OBM COST: $281,065

Type : **KCL Brine**	VISCOCITY (sec/qt) : 37	API FLUID LOSS (cm3/30min) :	Cl :	SOLIDS (%vol) :
FROM : PIT	PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
TIME : 12:00	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
WEIGHT (sg) : 1.12	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
TEMP (C) :	Fann 3/6/100 :		PM :	PH :
			PF :	PHPA (ppb) :

Bit Data for Bit # **IADC #**

Wear	I	O1	D	L	B	G	O2	R

SIZE (") :

MANUFACTURER :	AVE WOB (k-lbs) :	**NOZZLES**	Drilled over the last 24 hrs
TYPE :	AVE RPM :	X	METERAGE (m) : 0
SERIAL # :	FLOW (gpm) :	X	ON BOTTOM HRS : .0
DEPTH IN (m RT) :	PUMP PRESS. (psi):	X	IADC DRILL. HRS : .0
DEPTH OUT (m RT) :	HSI (hp/sqi) :	X	TOTAL REVS : 0
		X	ROP (m/hr):

Calculated over the bit run	
CUM.METERAGE (m)	0
CUM. ON BOT. HRS :	.0
CUM.IADC DRILL HRS:	.0
CUM.TOT. REVS :	0
ROP (m/hr):	

DATE Jun 12, 2002

DAILY DRILLING REPORT # 21

BALEEN # 3

VIC/L21

BHA # . Length (ft) :

WT BLW JAR(k-lbs):	STRING WT(k-lbs) :	TRQE MAX (ft-lbs):	D.C. (1) ANN. VELOCITY (mpm): 0
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	TRQE ON (ft-lbs):	D.C. (2) ANN VELOCITY (mpm): 0
	SLK 0FF WT(k-lbs) :	TRQE OFF (ft-lbs):	H.W.D.P. ANN VELOCITY (mpm): 0
			D.P. ANN VELOCITY (mpm) : 0

BHA DESCRIPTION :

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
1,460	712	85.35	232.	232.0	332.8	3.99	-181.6	-279.1	
1,489	714	89.87	231.	231.9	361.6	4.68	-199.4	-301.9	
1,517	713	93.80	232.	232.1	389.8	4.16	-216.9	-324.2	
1,546	710	95.32	232.	232.2	418.7	1.57	-234.7	-347.2	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	436			436
Bentonite	SX	1662			1662
G-neat	SX	1449			1449
G+35% SiFl	SX	0			0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	23	23	98
Drill Water	M3	419			419
Heli-fuel	ltr	2176			2176
Base Oil	M3				0
Rig Fuel	M3	442	11		431
Brine	M3				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00		97						
2	National	6.00		97						
3	National	6.00		97						

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	866.1 866.1	680.0 680.0		1.41 1.41	Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Displaced with 190 bbls, Bumped plug and pressure tested casing to 3,000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
9 5/8" Well head	2.33	8.750	47.0	L-80	New Vam
X / O Joint (NK3SB pin X N-VAM box)	3.17	8.750	47.0	L-80	N-Vam x NK
58 Joints 9 5/8" Casing	746.36	8.750	47.0	L-80	NK 3SB
Float joint	13.05	8.750	47.0	L-80	N-Vam x NK
Intermediate Joint	12.03	8.750	47.0	L-80	New Vam
Shoe Joint	12.50	8.750	47.0	L-80	New Vam

Personnel : on Site =97

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	7
Drilling Supervisor	J. Kenrick	Service Company	34
Sub Sea Engineer	W. Bates	Diamond Offshore	48
Testing Supervisor	M. Mulliner	Catering	8
Completion Supervisor	L. Taylor		
Reservior Engineer	A. Ion		
Drilling Engineer	H. Heinzle		

Safety, Inspections and Drills **Summary**

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Shakers, Volumes and Losses Data

ENGINEER G. Garrick

SHAKER 1	4 x120
SHAKER 2	4 x 120
SHAKER 3	4 x 120
SHAKER 4	4 x 145
SHAKER 5	

VOLUME AVAILABLE (bbl) = 1634

ACTIVE	269	MIXING	
HOLE	447	SLUG	
RESERVE	918	HEAVY	

LOSSES (bbl) = 0

DOWNHOLE	
SURF. + EQUIP	0.00
DUMPED	

COMMENTS

Anchors

A 1	236	A 2	271	A 3	218	A 4	201	A 5	155
A 6	170	A7	289	A8	302				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	Geelon	218	0	690	190	1188	838	
Pacific Sentinel	Standb	171		510	90	1190		250

Weather

VISIBILITY(nm)	16
WIND SP. (kts)	15.0
WIND DIR (deg)	300
PRES.(mbars)	998
AIR TEMP (C)	16.0

Rig / Sea Data

RIS.TENS (klbs)	216
VDL (mt)	2,241
WAVES (m)	1.0
SWELL (m)	1.8

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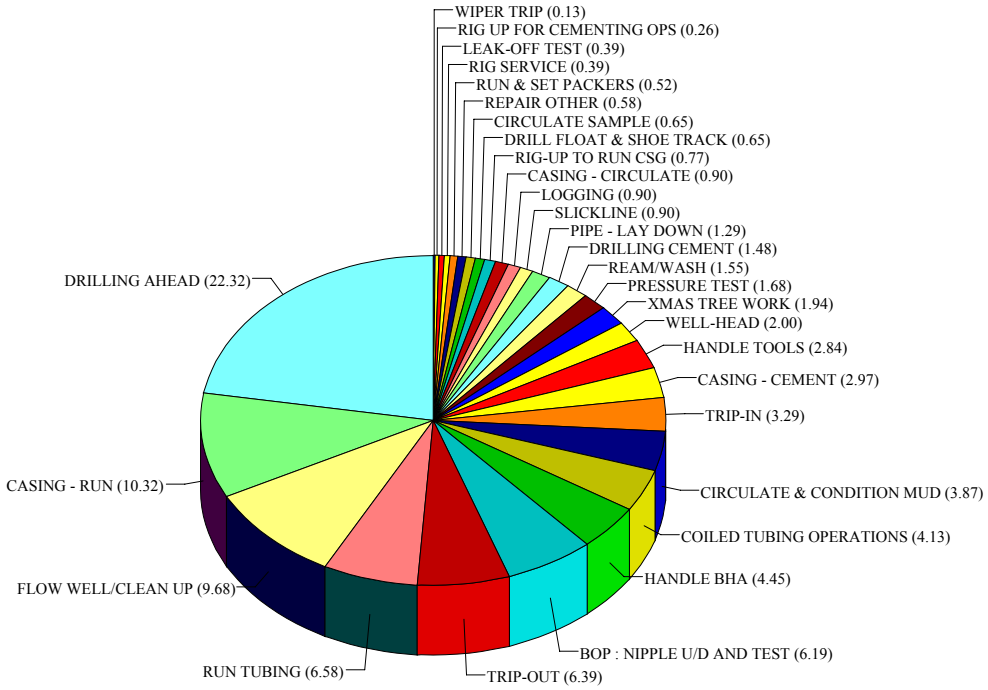
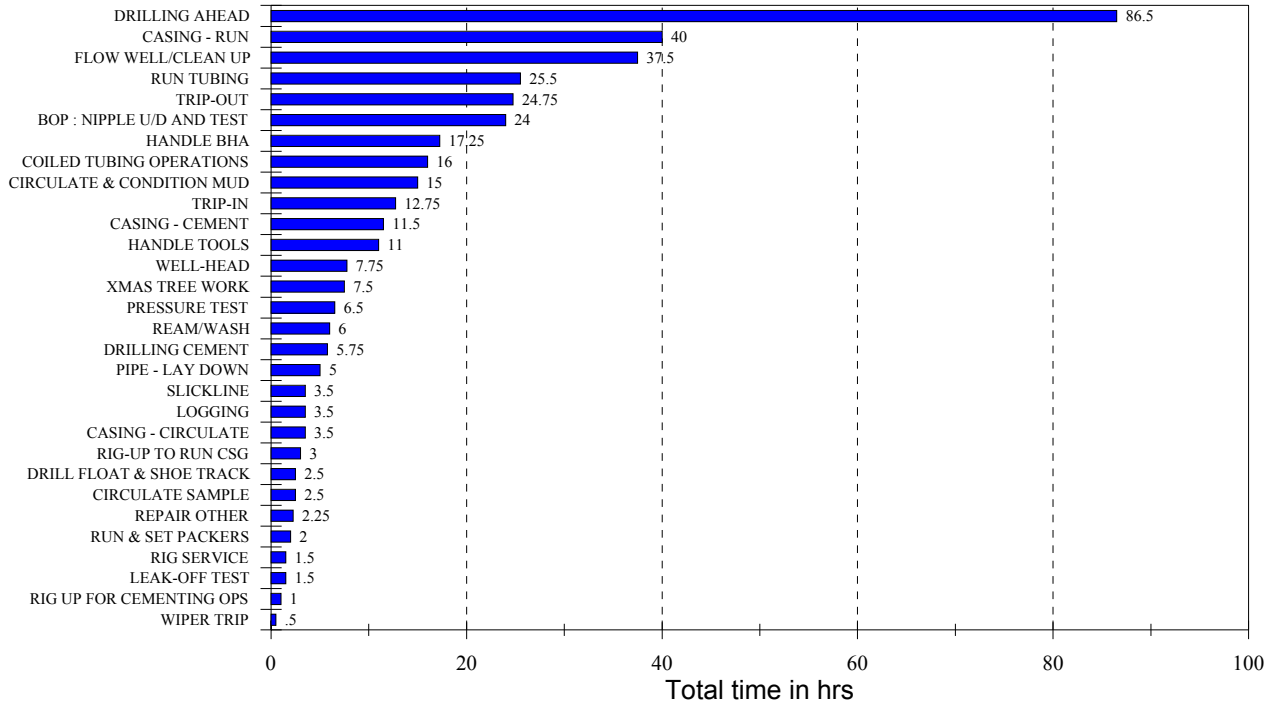
Total move time (hrs)	22.50	Total prod. time since spud (hrs) :	387.50
Total time on well excluding move (hrs)	468.00	Total troub. time since spud (hrs)	80.50
		% Trouble time	17.20

Productive Time by Op.



Productive time by Operation



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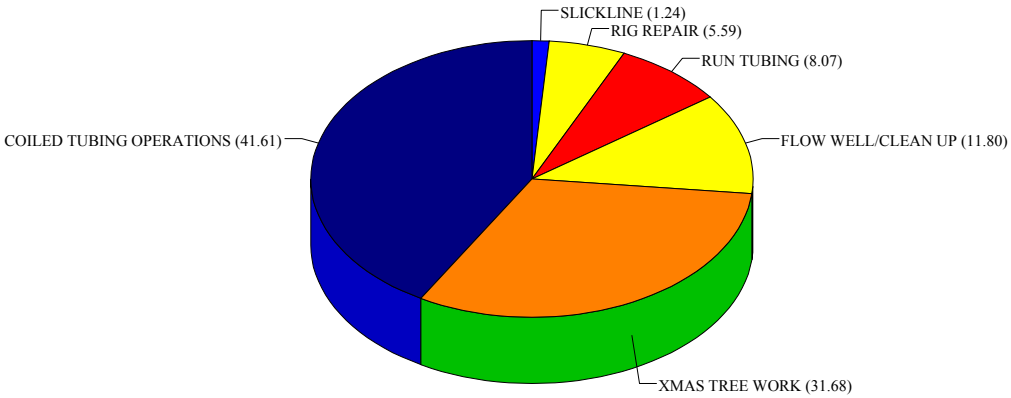
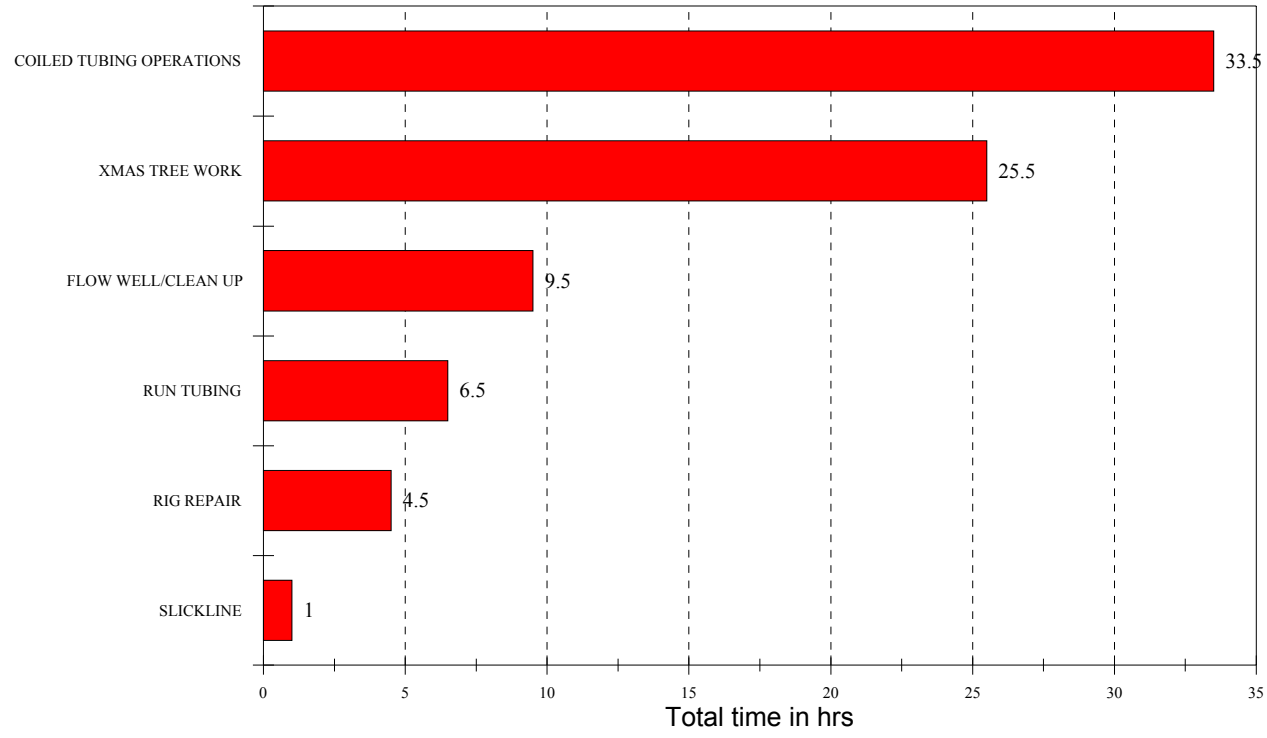
Trouble Time by Op.



NPT by Operation



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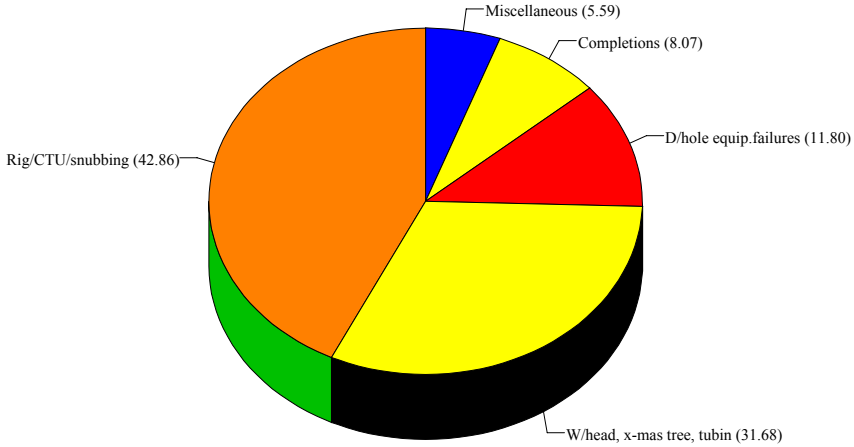
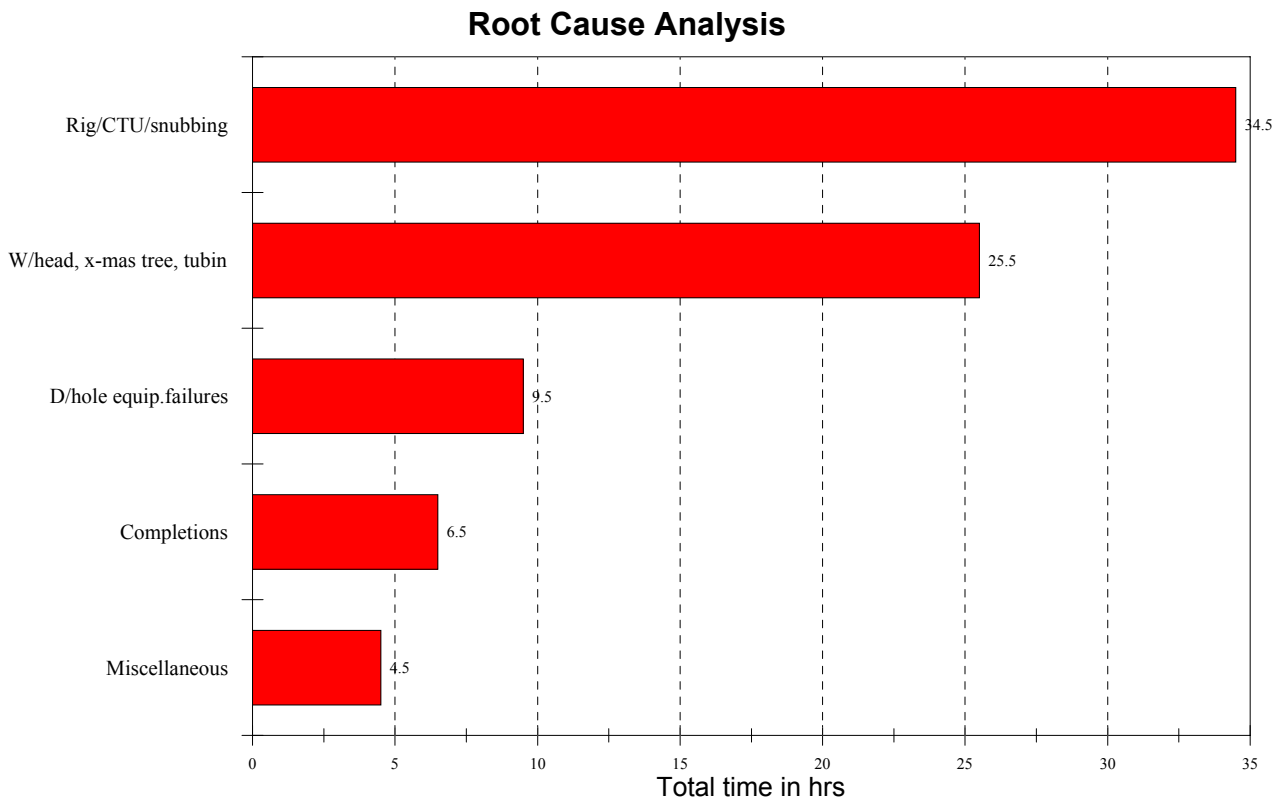
Root Cause Analysis





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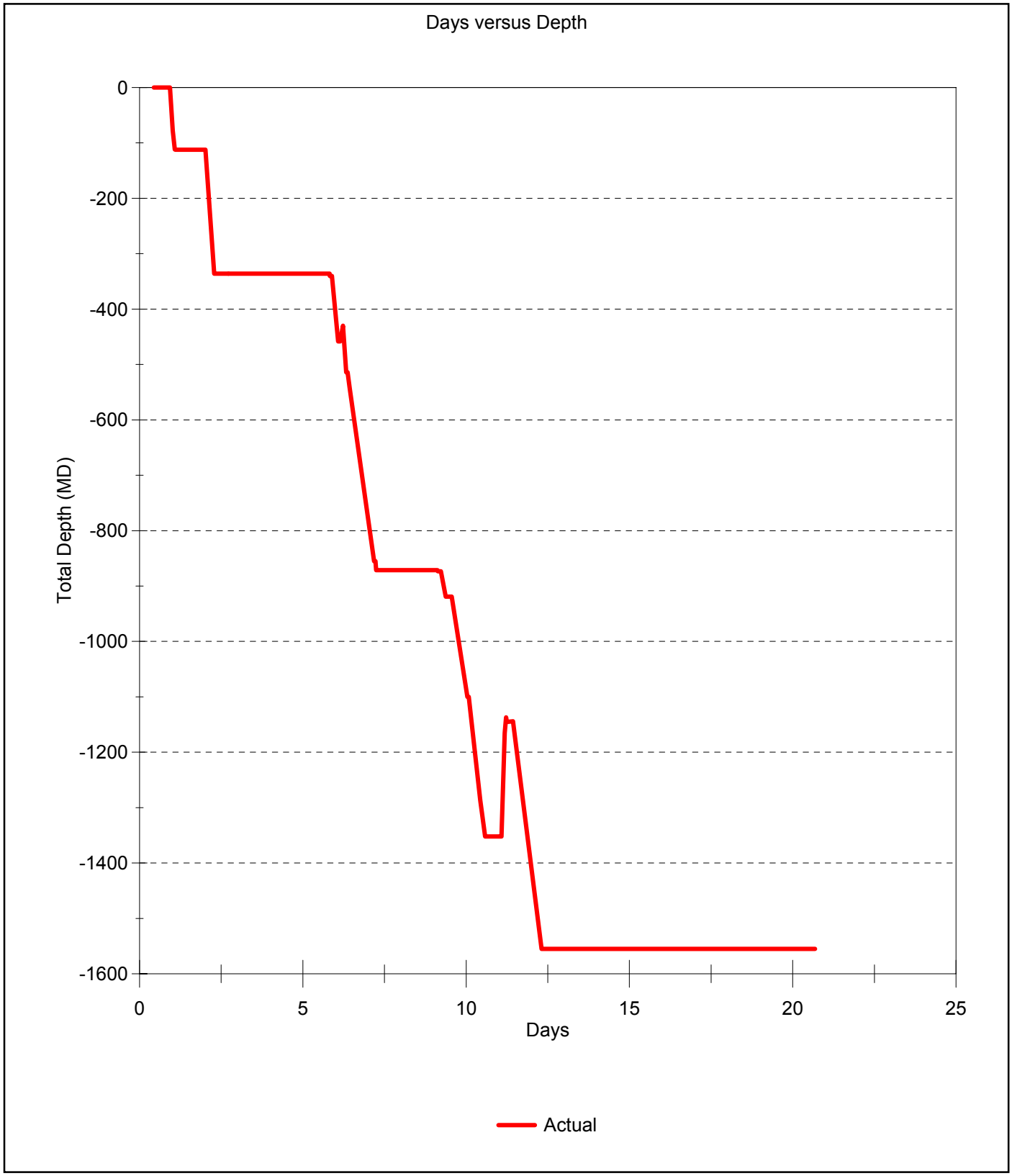
DEPTH @ 24:00 = 1,555.0m after 20.46 days since spud



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OMV

DAILY DRILLING REPORT # 22

DATE Jun 13, 2002

FROM : G. Howard / J. Kenrick
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	1,555.0	CUR. HOLE SIZE (")		AFE COST $	11,852,851
TVD (mBRT)	710.4	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
PROGRESS (m)		SHOE TVD (mBRT)	680	DAILY COST :	$375,612.00
DAYS ON WELL	21.46	FIT (sg)	1.41	CUM COST :	12,028,735.00
DAYS +/- CURVE	2.30	LOT (sg)	0.00		

CURRENT OP @ 0600 Rigging down coiled tubing lubricator head & related equipment.
PLANNED OP. Run & set plugs. Recover landing string & prepare to pull stack.

Summary of period 0000 to 2400 hrs

Flowed well for main flow period. Shut well in for final shut in period. Flowed well for final flow period.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 13, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PT	P		FLO	00:00	02:00	2.00	1,555	Well shut in for build up period.
PT	P		FLO	02:00	17:30	15.50	1,555	Opened choke & flowed well for main flow period.
PT	P		FLO	17:30	21:00	3.50	1,555	Shut well in for final shut in period & monitored build up.
PT	P		FLO	21:00	24:00	3.00	1,555	Opened choke & flowed well for final flow period.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 14, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PT	P		FLO	00:00	01:30	1.50	1,555	Flowed well for final flow period.
PT	P		FLO	01:30	02:00	.50	1,555	Shut well in at choke. Pulled out of hole with coiled tubing & surface read out gauges to injector head.
PT	P		FLO	02:00	03:00	1.00	1,555	Performed inflow test on TRSCSSSV for 10 minutes. Opened TRSCSSSV.
PT	P		FLO	03:00	04:00	1.00	1,555	Closed SSLV & bled down tubing & surface system. Closed master valve & flushed surface lines with brine.
PT	P		CTO	04:00	06:00	2.00	1,555	Raised injector head & recovered surface read out gauges. Rigged down coiled tubing injector head & related equipment.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	128.0	May 26, 2002	Jun 11, 2002	234.8	9.78	336.0	1,555.0
INTERMEDIATE HOLE (1)	54.3	May 29, 2002	Jun 01, 2002	289.0	12.04	340.0	871.0
INTERMEDIATE CASING (1)	25.0	May 31, 2002	Jun 01, 2002	314.0	13.08	871.0	871.0
PRODUCTION HOLE (1)	61.0	Jun 01, 2002	Jun 05, 2002	375.0	15.63	873.0	1,555.0
SIDETRACKING	29.5	Jun 03, 2002	Jun 04, 2002	404.5	16.85	1,137.0	1,555.0
PRODUCTION CSG/LNR(1)	39.0	Jun 05, 2002	Jun 07, 2002	443.5	18.48	1,555.0	1,555.0
PRODUCTION TEST	71.0	Jun 11, 2002	Jun 13, 2002	514.5	21.44	1,555.0	1,555.0

WBM Data COST TODAY : CUM. WB MUD COST: $281,065 CUM. WBM+OBM COST: $281,065

Type : KCL Brine	VISCOCITY (sec/qt) : 37	API FLUID LOSS (cm3/30min) :	Cl :	SOLIDS (%vol) :
FROM : PIT	PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
TIME : 12:00	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
WEIGHT (sg) : 1.12	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
TEMP (C) :	Fann 3/6/100 :		PM :	PH :
			PF :	PHPA (ppb) :

Bit Data for Bit # **IADC #**

Wear	I	O1	D	L	B	G	O2	R

SIZE (") :

MANUFACTURER :

TYPE :

SERIAL # :

DEPTH IN (m RT) :

DEPTH OUT (m RT) :

AVE WOB (k-lbs) :

AVE RPM :

FLOW (gpm) :

PUMP PRESS. (psi):

HSI (hp/sqi) :

NOZZLES	Drilled over the last 24 hrs		Calculated over the bit run	
x	METERAGE (m) :	0	CUM.METERAGE (m)	0
x	ON BOTTOM HRS :	.0	CUM. ON BOT. HRS :	.0
x	IADC DRILL. HRS :	.0	CUM.IADC DRILL HRS:	.0
x	TOTAL REVS :	0	CUM.TOT. REVS :	0
x	ROP (m/hr):		ROP (m/hr):	

BHA # . **Length (ft) :**

WT BLW JAR(k-lbs):

BHA WT(k-lbs) :

STRING WT(k-lbs) :

PICK UP WT(k-lbs) :

SLK 0FF WT(k-lbs) :

TRQE MAX (ft-lbs):

TRQE ON (ft-lbs):

TRQE OFF (ft-lbs):

D.C. (1) ANN. VELOCITY (mpm): 0

D.C. (2) ANN VELOCITY (mpm): 0

H.W.D.P. ANN VELOCITY (mpm): 0

D.P. ANN VELOCITY (mpm) : 0

BHA DESCRIPTION :

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
1,460	712	85.35	232.	232.0	332.8	3.99	-181.6	-279.1	
1,489	714	89.87	231.	231.9	361.6	4.68	-199.4	-301.9	
1,517	713	93.80	232.	232.1	389.8	4.16	-216.9	-324.2	
1,546	710	95.32	232.	232.2	418.7	1.57	-234.7	-347.2	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	436			436
Bentonite	SX	1662			1662
G-neat	SX	1449			1449
G+35% SiFl	SX	0			0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	22	22	98
Drill Water	M3	419	12		407
Heli-fuel	ltr	2176	222	-306	1648
Base Oil	M3				0
Rig Fuel	M3	431	10		421
Brine	M3				0

Pump Data

	Pump Data - last 24 hrs						Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00		97						
2	National	6.00		97						
3	National	6.00		97						

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	866.1 866.1	680.0 680.0		1.41 1.41	Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Displaced with 190 bbls, Bumped plug and pressure tested casing to 3,000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
9 5/8" Well head	2.33	8.750	47.0	L-80	New Vam
X / O Joint (NK3SB pin X N-VAM box)	3.17	8.750	47.0	L-80	N-Vam x NK
58 Joints 9 5/8" Casing	746.36	8.750	47.0	L-80	NK 3SB
Float joint	13.05	8.750	47.0	L-80	N-Vam x NK
Intermediate Joint	12.03	8.750	47.0	L-80	New Vam
Shoe Joint	12.50	8.750	47.0	L-80	New Vam

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Personnel : on Site =94

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	7
Drilling Supervisor	J. Kenrick	Service Company	31
Sub Sea Engineer	W. Bates	Diamond Offshore	48
Testing Supervisor	M. Mulliner	Catering	8
Completion Supervisor	L. Taylor		
Reservior Engineer	A. Ion		
Drilling Engineer	H. Heinzle		

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER G. Garrick

SHAKER 1	4 x120
SHAKER 2	4 x 120
SHAKER 3	4 x 120
SHAKER 4	4 x 145
SHAKER 5	

VOLUME AVAILABLE (bbl) = 1634

ACTIVE	269	MIXING	
HOLE	447	SLUG	
RESERVE	918	HEAVY	

LOSSES (bbl) = 0

DOWNHOLE	
SURF. + EQUIP	0.00
DUMPED	

COMMENTS

Anchors

A 1	232	A 2	282	A 3	242	A 4	223	A 5	155
A 6	175	A7	274	A8	284				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	Geelon	218	0	690	190	1188	838	
Pacific Sentinel	Standb	166		510	85	1190		250

Weather

VISIBILITY(nm)	15
WIND SP. (kts)	40.0
WIND DIR (deg)	280
PRES.(mbars)	998
AIR TEMP (C)	13.0

Rig / Sea Data

RIS.TENS (klbs)	216
VDL (mt)	2,031
WAVES (m)	1.8
SWELL (m)	2.4

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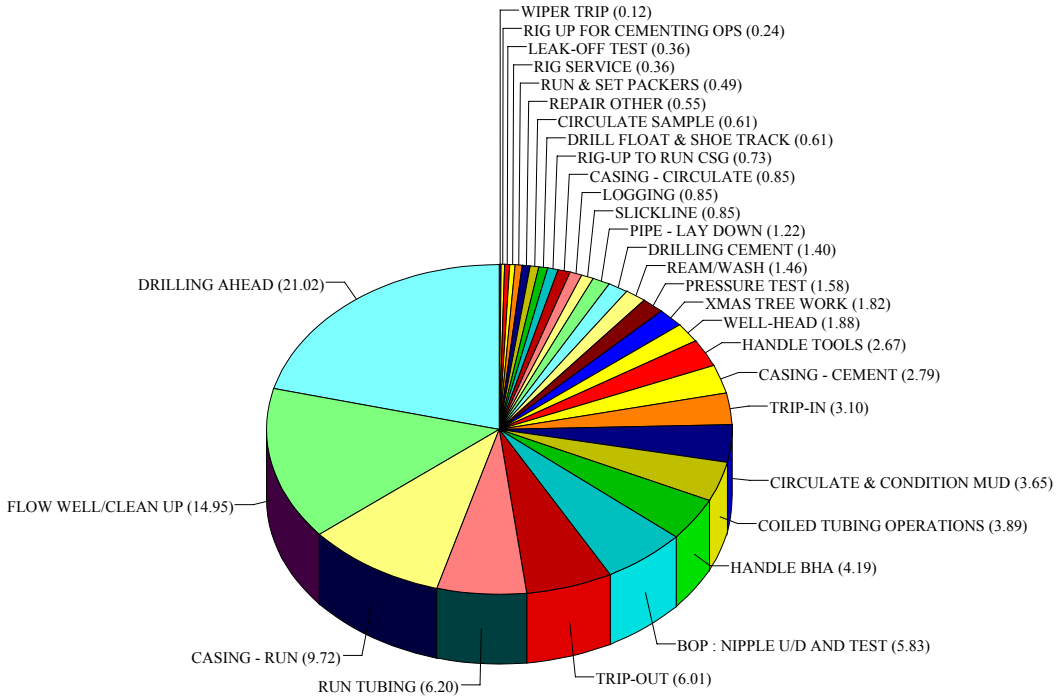
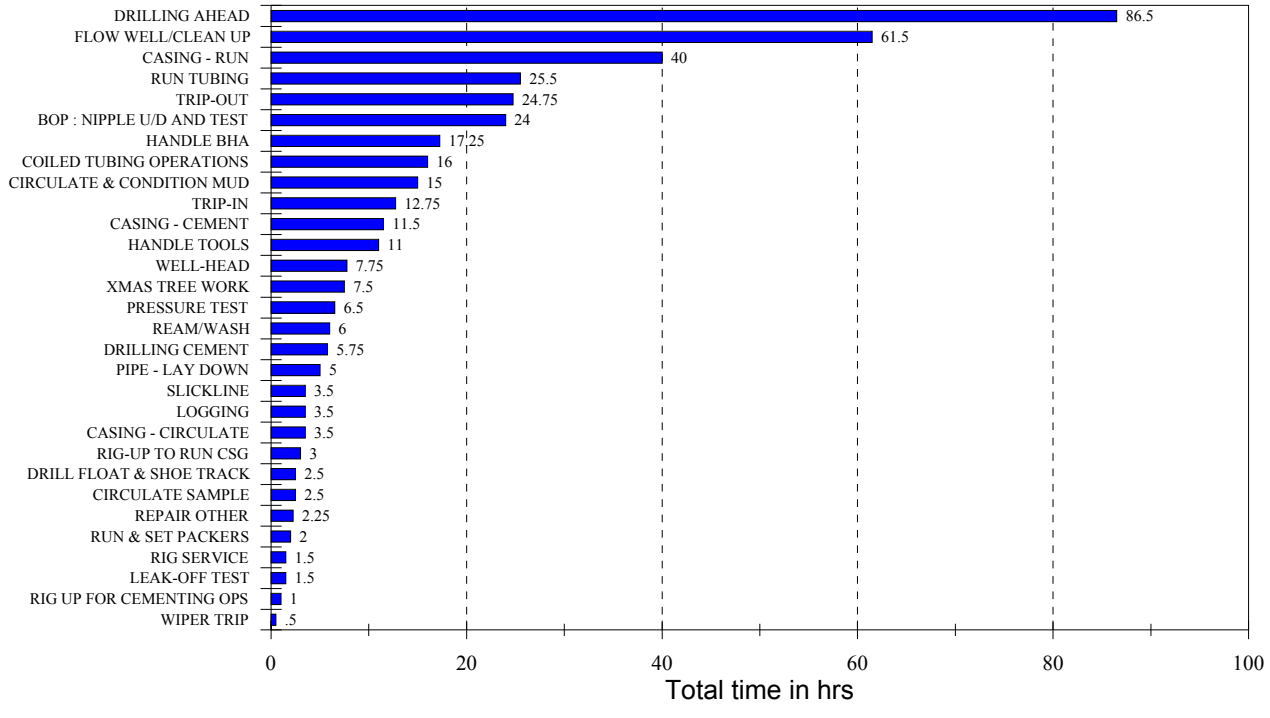
Total move time (hrs)	**22.50**	**Total prod. time since spud (hrs) :**	**411.50**
Total time on well excluding move (hrs)	**492.00**	**Total troub. time since spud (hrs)**	**80.50**
		% Trouble time	**16.36**

Productive Time by Op.



Productive time by Operation



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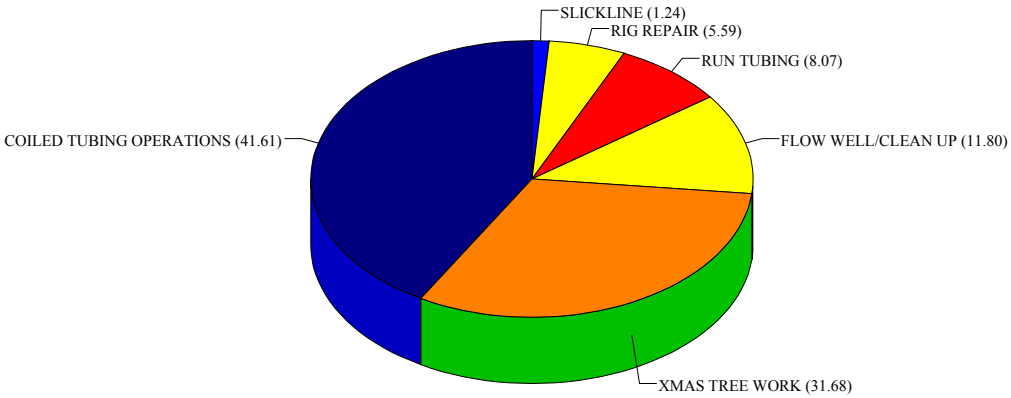

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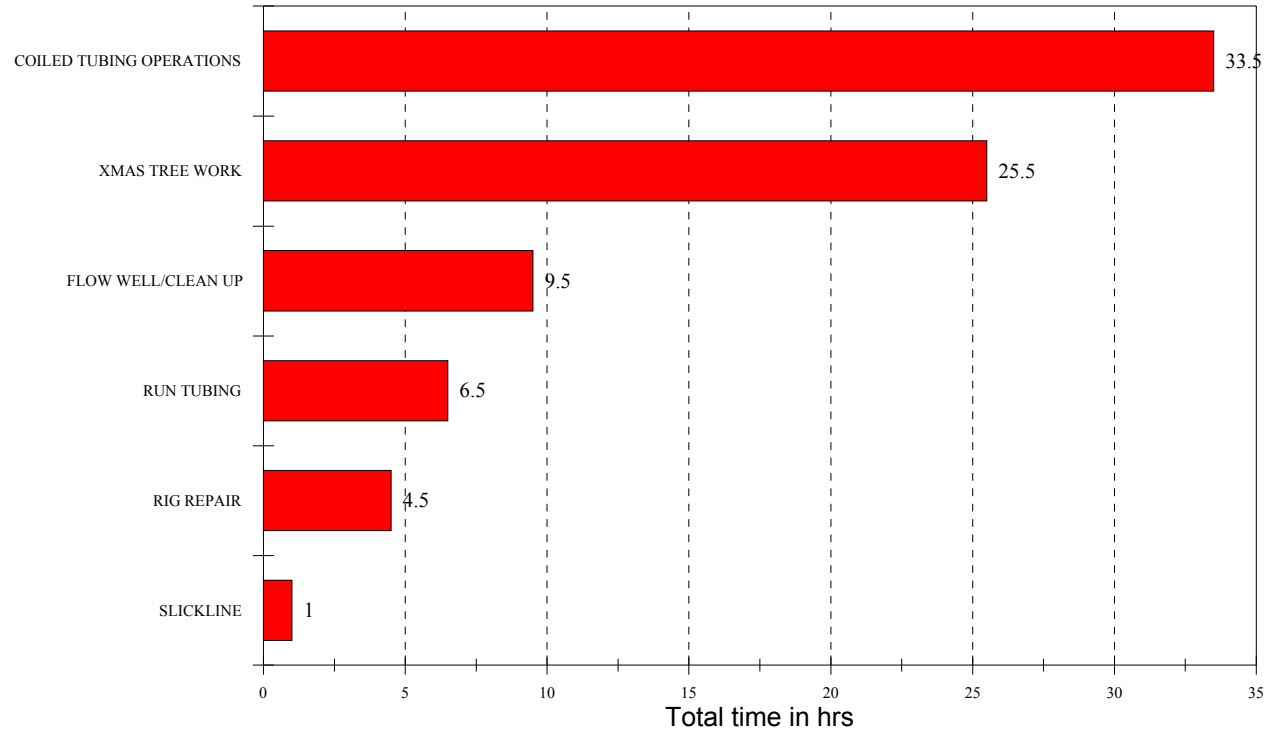

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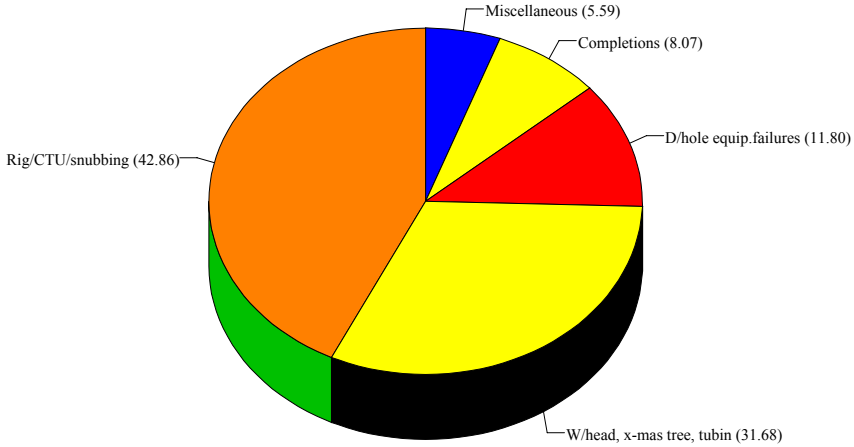
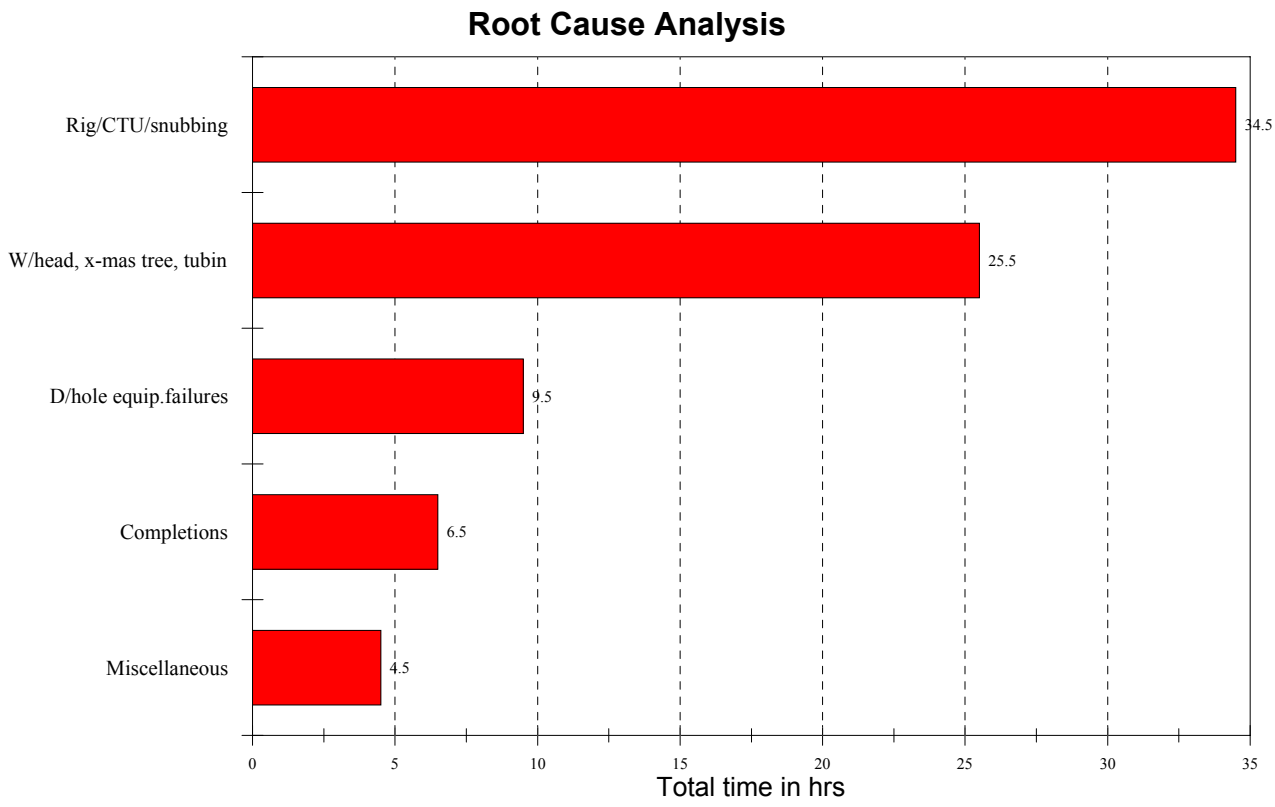
Root Cause Analysis





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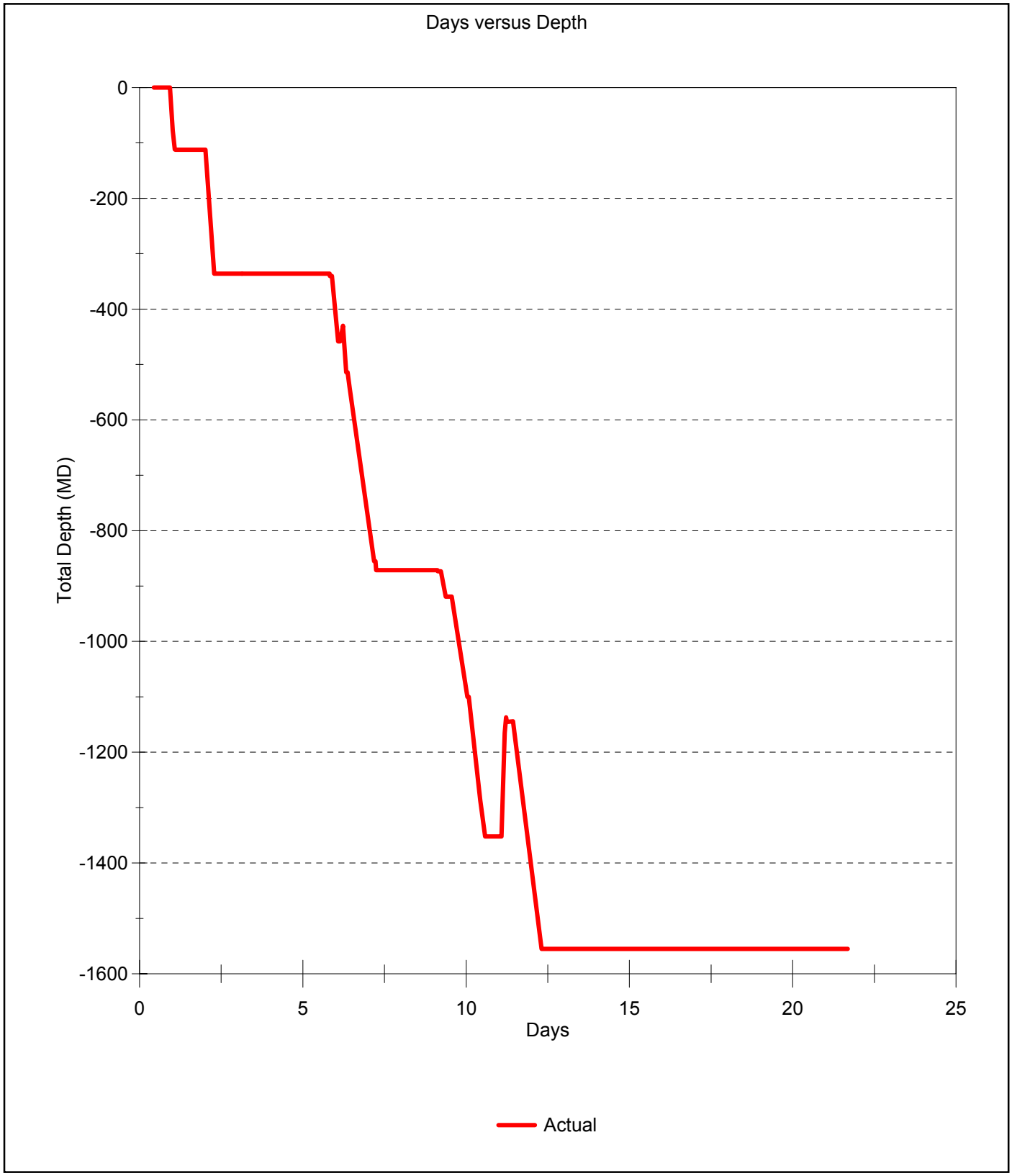
DEPTH @ 24:00 = 1,555.0m after 21.46 days since spud



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OMV

DAILY DRILLING REPORT # 23

DATE Jun 14, 2002

FROM : G. Howard / J. Kenrick
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	1,555.0	CUR. HOLE SIZE (")		AFE COST $	11,852,851
TVD (mBRT)	710.4	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
PROGRESS (m)		SHOE TVD (mBRT)	680	DAILY COST :	$350,717.00
DAYS ON WELL	22.46	FIT (sg)	1.41	CUM COST :	12,379,452.00
DAYS +/- CURVE	2.10	LOT (sg)	0.00		

CURRENT OP @ 0600 Rigging up slickline.

PLANNED OP. Suspend Baleen-3 & prepare to move rig to Patricia-2.

Summary of period 0000 to 2400 hrs

Completed well test. Rigged down coiled tubing. Set SSR plug in tubing hanger & pulled landing string.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 14, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PT	P		FLO	00:00	01:30	1.50	1,555	Flowed well for final flow period.
PT	P		FLO	01:30	02:00	.50	1,555	Shut well in at choke. Pulled out of hole with coiled tubing & surface read out gauges to injector head.
PT	P		FLO	02:00	03:00	1.00	1,555	Performed inflow test on TRSCSSSV for 10 minutes. Opened TRSCSSSV.
PT	P		FLO	03:00	04:00	1.00	1,555	Closed SSLV & bled down tubing & surface system. Closed master valve & flushed surface lines with brine.
PT	P		CTO	04:00	07:00	3.00	1,555	Raised injector head & recovered surface read out gauges. Rigged down coiled tubing injector head & related equipment.
CTB	P		SLK	07:00	09:00	2.00	1,555	Held JSA. Rigged up slickline lubricator & BOP. Pressure tested lubricator & related equipment to 3500psi for 10 minutes.
CTB	P		SLK	09:00	10:00	1.00	1,555	Ran in hole & drifted tubing hanger with 5.312" drift.
SUS	TP	SLK	SLK	10:00	12:00	2.00	1,555	Ran in hole with 5.25" SSR plug. Attempted to set plug with no success. Pulled out of hole & redressed SSR plug.
SUS	TP	SLK	SLK	12:00	15:00	3.00	1,555	Ran in hole with redressed SSR plug. Attempted to set plug with no success. Pulled out of hole & redressed SSR plug.
SUS	P		SLK	15:00	16:00	1.00	1,555	Ran in hole with 5.25" SSR plug. Set SSR plug & pressure tested to 3000psi for 10 minutes.
SUS	P		SLK	16:00	16:30	.50	1,555	Bled down pressure above SSR plug & monitored well for 10 minutes. Pulled out of hole with slickline.
SUS	P		SLK	16:30	18:30	2.00	1,555	Rigged down slickline & related equipment.
SUS	P		SLK	18:30	19:00	.50	1,555	Opened annular preventer & released tubing hanger running tool. Reverse circulated 150% landing string capacity.
SUS	P		WH	19:00	22:00	3.00	1,555	Laid down test flow head & removed coflexip hose. Laid down coiled tubing lifting frame & related equipment. Rigged up casing bails & elevators.
SUS	P		WH	22:00	24:00	2.00	1,555	Pulled out of hole laying down 7" landing string.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 15, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SUS	P		WH	00:00	00:30	.50	1,555	Made up wireline crossover & pump in sub to joint of 7" landing string.
SUS	P		WH	00:30	01:00	.50	1,555	Pulled out of hole to tubing hanger running tool.
SUS	P		XT	01:00	01:30	.50	1,555	Made up tree cap to tubing hanger running tool.
SUS	P		XT	01:30	04:00	2.50	1,555	Ran in hole with 7" landing string. Picked up & made up sub sea lubricator valve & control lines.
SUS	P		XT	04:00	04:30	.50	1,555	Rigged up lifting slings to bails. Picked up landing joint with wireline crossover & pump in sub.
SUS	P		XT	04:30	05:00	.50	1,555	Landed tree cap & confirmed with index mark. Locked down cap & pressure tested backside to 3500psi for 10 minutes.
SUS	P		SLK	05:00	06:00	1.00	1,555	Rigged up slickline lubricator & related equipment.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0

DATE Jun 14, 2002

DAILY DRILLING REPORT # 23

BALEEN # 3

VIC/L21

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	131.0	May 26, 2002	Jun 14, 2002	237.8	9.91	336.0	1,555.0
INTERMEDIATE HOLE (1)	54.3	May 29, 2002	Jun 01, 2002	292.0	12.17	340.0	871.0
INTERMEDIATE CASING (1)	25.0	May 31, 2002	Jun 01, 2002	317.0	13.21	871.0	871.0
PRODUCTION HOLE (1)	61.0	Jun 01, 2002	Jun 05, 2002	378.0	15.75	873.0	1,555.0
SIDETRACKING	29.5	Jun 03, 2002	Jun 04, 2002	407.5	16.98	1,137.0	1,555.0
PRODUCTION CSG/LNR(1)	39.0	Jun 05, 2002	Jun 07, 2002	446.5	18.60	1,555.0	1,555.0
PRODUCTION TEST	78.0	Jun 11, 2002	Jun 14, 2002	524.5	21.85	1,555.0	1,555.0
SUSPENSION	14.0	Jun 14, 2002	Jun 14, 2002	538.5	22.44	1,555.0	1,555.0

WBM Data

COST TODAY :

CUM. WB MUD COST: $281,065

CUM. WBM+OBM COST: $281,065

Type : **KCL Brine**

FROM : PIT

TIME : 12:00

WEIGHT (sg) : 1.12

TEMP (C) :

VISCOCITY (sec/qt) : 37

PV (cps):

YP (lb100sq.ft):

GEL10s/10m/100m (lb100sq.ft) :

Fann 3/6/100 :

API FLUID LOSS (cm3/30min) :

FILTER CAKE (32nds inch) :

HTHPFL (cm3/30min) :

HTHP CAKE (32nds inch) :

Cl :

K+C*1000 :

HARD/Ca :

MBT (ppb) :

PM :

PF :

SOLIDS (%vol) :

H2O (%vol) :

OIL (%vol) :

SAND :

PH :

PHPA (ppb) :

Bit Data for Bit # IADC

SIZE (") :

MANUFACTURER :

TYPE :

SERIAL # :

DEPTH IN (m RT) :

DEPTH OUT (m RT) :

AVE WOB (k-lbs) :

AVE RPM :

FLOW (gpm) :

PUMP PRESS. (psi):

HSI (hp/sqi) :

Wear

I	O1	D	L	B	G	O2	R

NOZZLES

x

x

x

x

x

Drilled over the last 24 hrs

METERAGE (m) : 0

ON BOTTOM HRS : .0

IADC DRILL. HRS : .0

TOTAL REVS : 0

ROP (m/hr):

Calculated over the bit run

CUM.METERAGE (m) 0

CUM. ON BOT. HRS : .0

CUM.IADC DRILL HRS: .0

CUM.TOT. REVS : 0

ROP (m/hr):

BHA # . Length (ft) :

WT BLW JAR(k-lbs):

BHA WT(k-lbs) :

STRING WT(k-lbs) :

PICK UP WT(k-lbs) :

SLK 0FF WT(k-lbs) :

TRQE MAX (ft-lbs):

TRQE ON (ft-lbs):

TRQE OFF (ft-lbs):

D.C. (1) ANN. VELOCITY (mpm): 0

D.C. (2) ANN VELOCITY (mpm): 0

H.W.D.P. ANN VELOCITY (mpm): 0

D.P. ANN VELOCITY (mpm) : 0

BHA DESCRIPTION :

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
1,460	712	85.35	232.	232.0	332.8	3.99	-181.6	-279.1	
1,489	714	89.87	231.	231.9	361.6	4.68	-199.4	-301.9	
1,517	713	93.80	232.	232.1	389.8	4.16	-216.9	-324.2	
1,546	710	95.32	232.	232.2	418.7	1.57	-234.7	-347.2	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	436			436
Bentonite	SX	1662			1662
G-neat	SX	1449			1449
G+35% SiFl	SX	0			0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	23	23	98
Drill Water	M3	407	7		400
Heli-fuel	ltr	1648	829	3000	3819
Base Oil	M3				0
Rig Fuel	M3	421	8	-1	412
Brine	M3				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00		97						
2	National	6.00		97						
3	National	6.00		97						

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DATE Jun 14, 2002

DAILY DRILLING REPORT # 23

BALEEN # 3

VIC/L21

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	866.1 866.1	680.0 680.0		1.41 1.41	Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Displaced with 190 bbls, Bumped plug and pressure tested casing to 3,000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
9 5/8" Well head	2.33	8.750	47.0	L-80	New Vam
X / O Joint (NK3SB pin X N-VAM box)	3.17	8.750	47.0	L-80	N-Vam x NK
58 Joints 9 5/8" Casing	746.36	8.750	47.0	L-80	NK 3SB
Float joint	13.05	8.750	47.0	L-80	N-Vam x NK
Intermediate Joint	12.03	8.750	47.0	L-80	New Vam
Shoe Joint	12.50	8.750	47.0	L-80	New Vam

Personnel : on Site =87

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	6
Drilling Supervisor	J. Kenrick	Service Company	22
Sub Sea Engineer	W. Bates	Diamond Offshore	51
Testing Supervisor	M. Mulliner	Catering	8
Completion Supervisor	L. Taylor		
Drilling Engineer	H. Heinzle		

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER G. Garrick

SHAKER 1	4 x120
SHAKER 2	4 x 120
SHAKER 3	4 x 120
SHAKER 4	4 x 145
SHAKER 5	

VOLUME AVAILABLE (bbl) = 1780

ACTIVE	415	MIXING	
HOLE	447	SLUG	
RESERVE	918	HEAVY	

LOSSES (bbl) = 0

DOWNHOLE	
SURF. + EQUIP	0.00
DUMPED	

COMMENTS

Anchors

A 1	211	A 2	253	A 3	216	A 4	202	A 5	175
A 6	158	A7	292	A8	295				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	Standb	423	0	640	172	1188	838	
Pacific Sentinel	Standb	160	1190	510	80			250

Weather

VISIBILITY(nm)	15
WIND SP. (kts)	15.0
WIND DIR (deg)	340
PRES.(mbars)	1001
AIR TEMP (C)	13.0

Rig / Sea Data

RIS.TENS (klbs)	216
VDL (mt)	2,004
WAVES (m)	0.6
SWELL (m)	1.2

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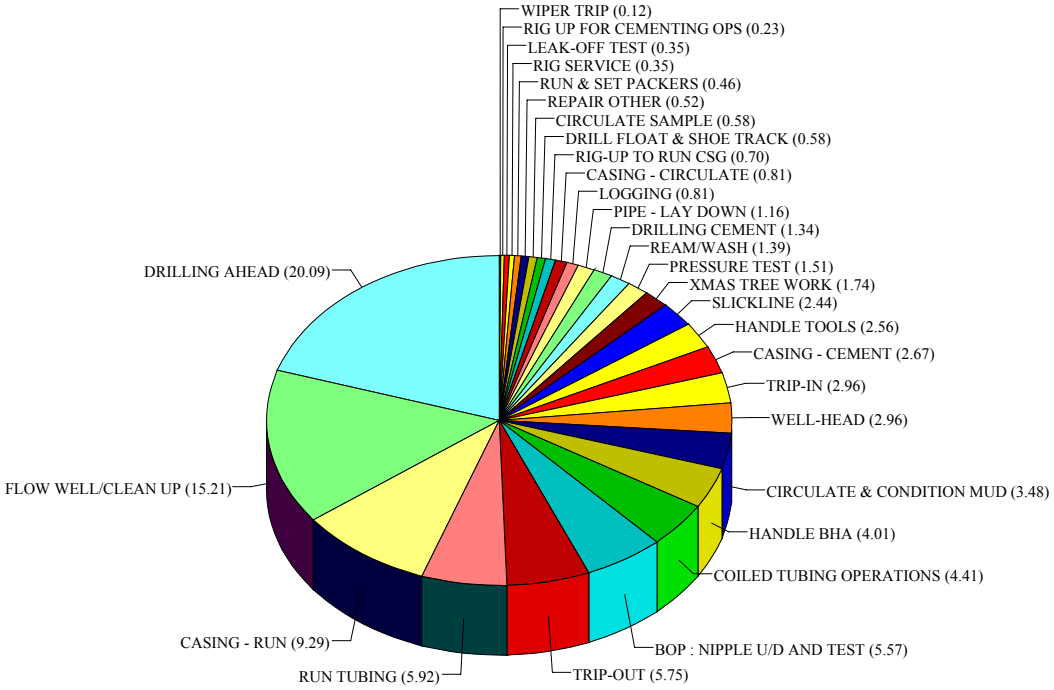
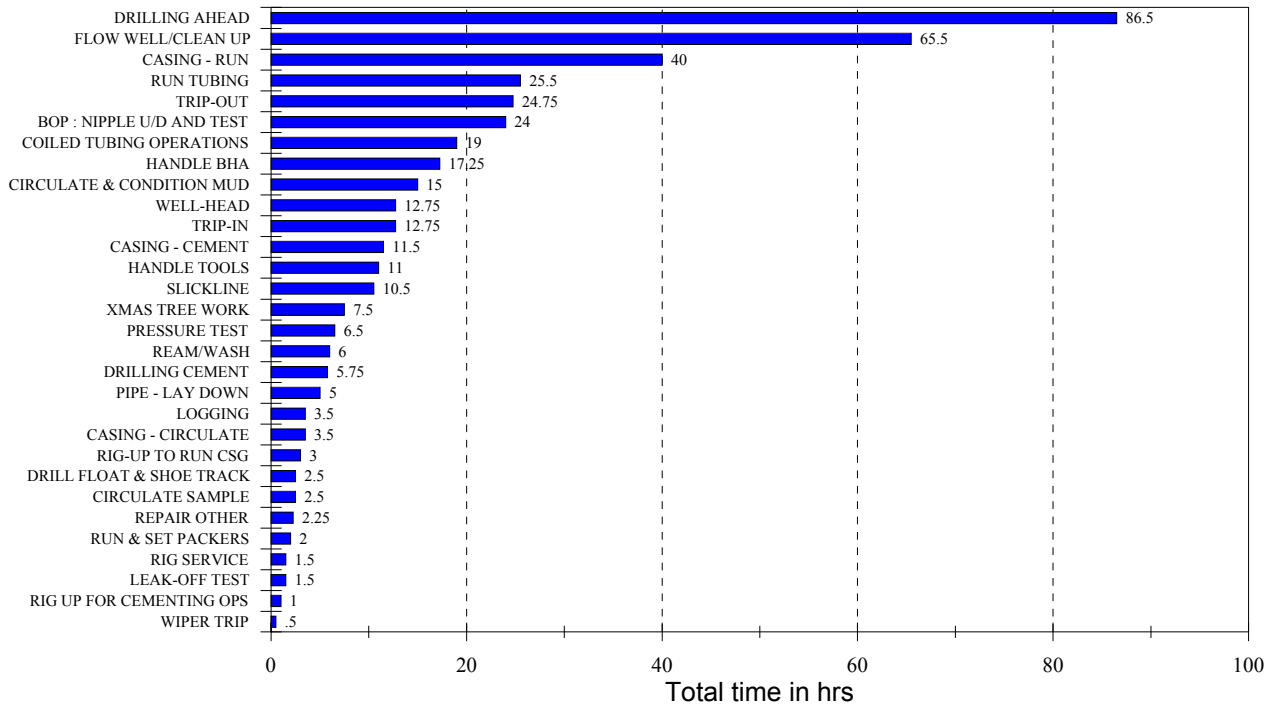
Total move time (hrs)	22.50	Total prod. time since spud (hrs) :	430.50
Total time on well excluding move (hrs)	516.00	Total troub. time since spud (hrs)	85.50
		% Trouble time	16.57

Productive Time by Op.



Productive time by Operation



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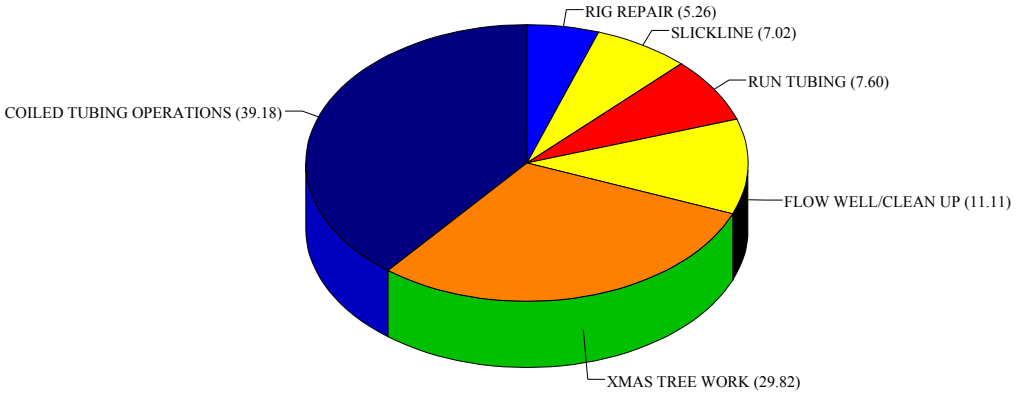
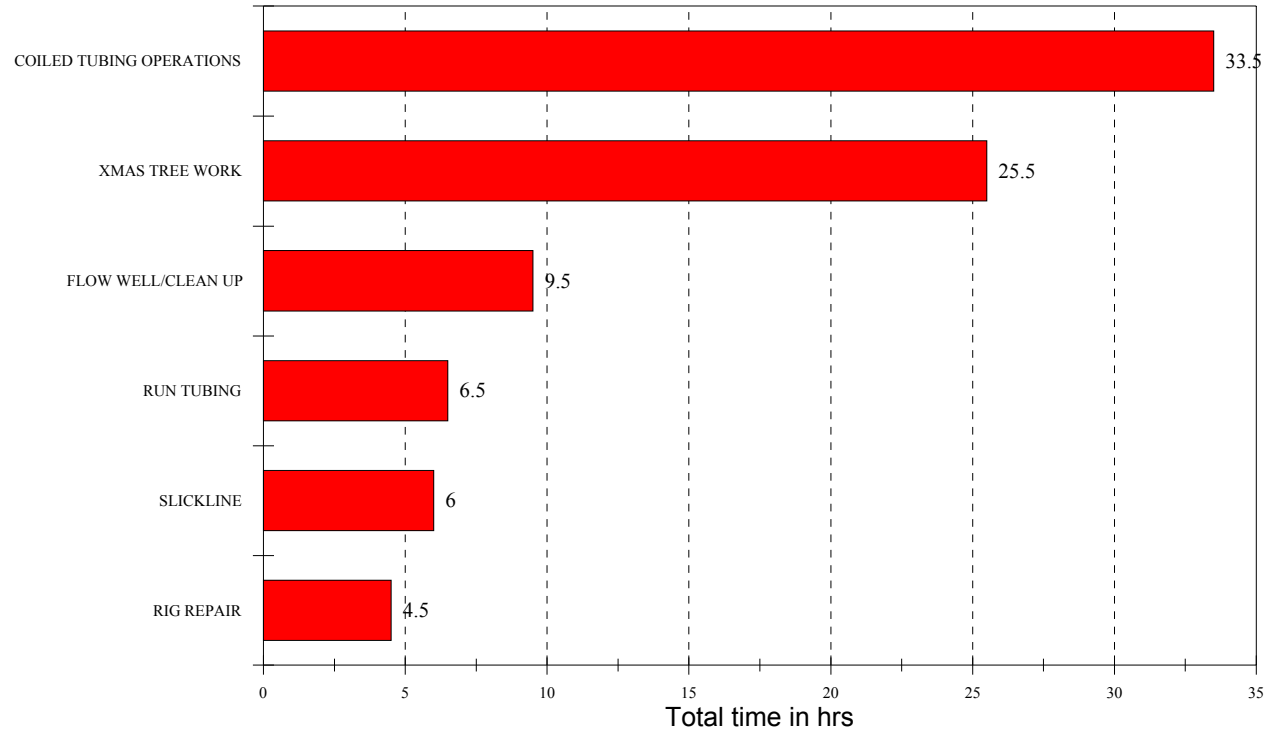
Trouble Time by Op.



NPT by Operation



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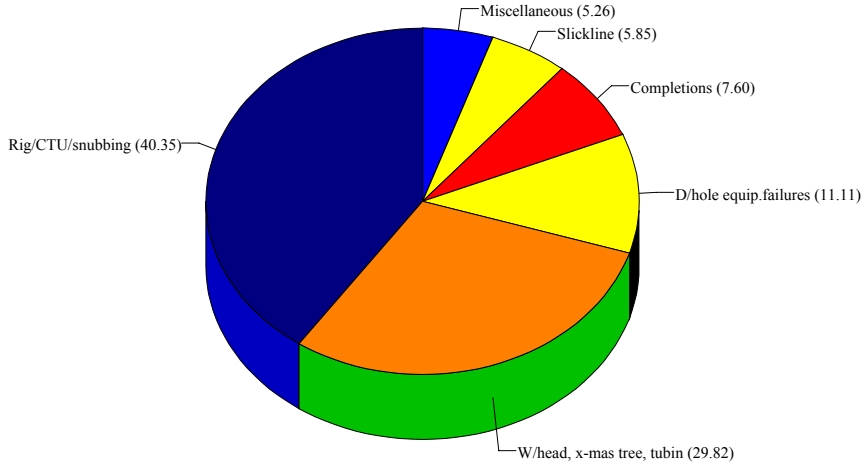
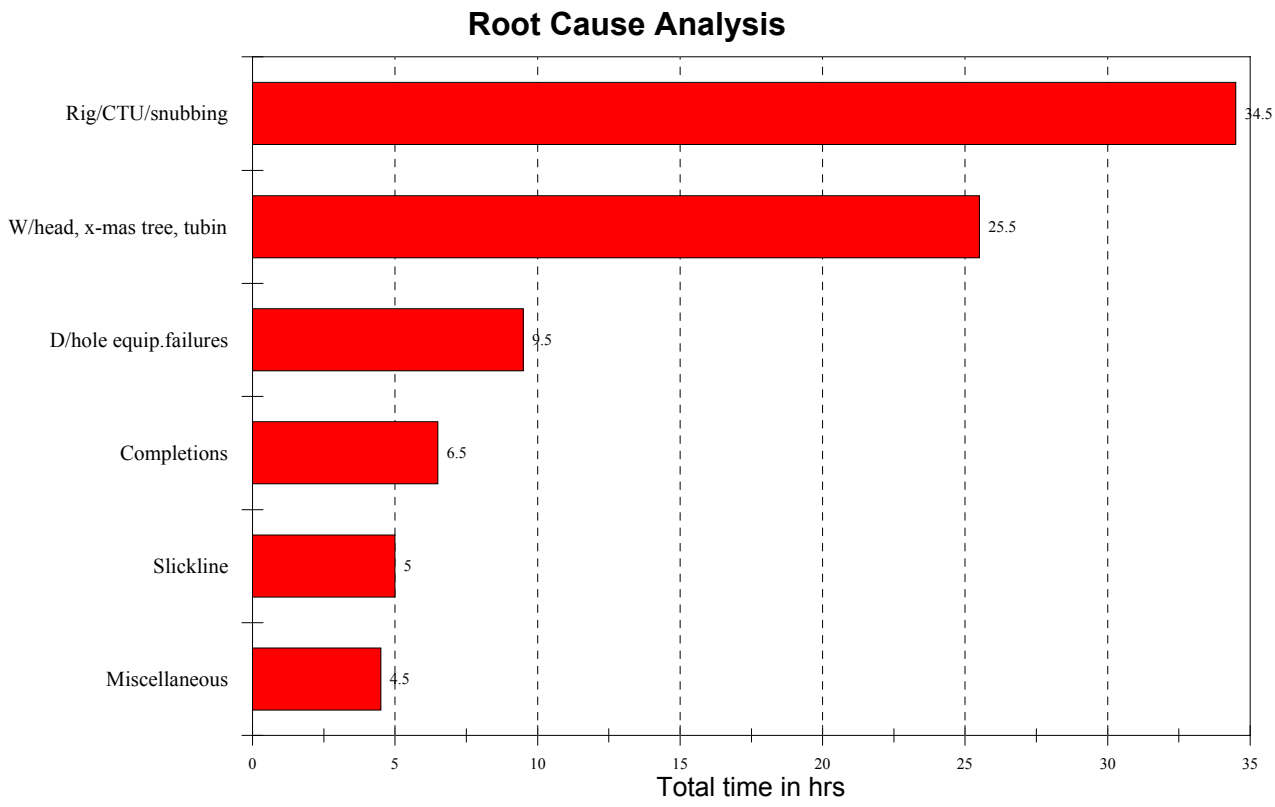
Root Cause Analysis





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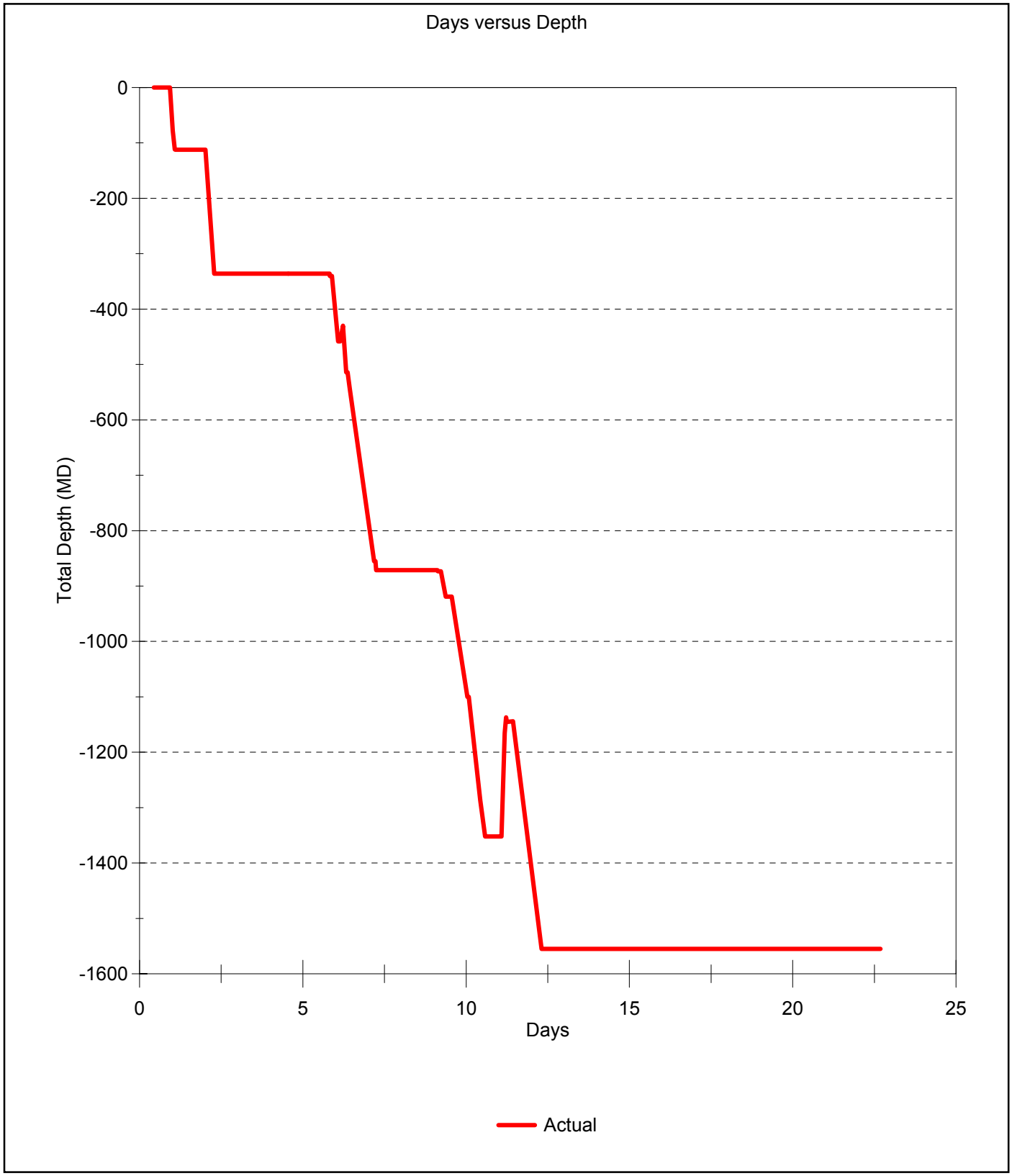
DEPTH @ 24:00 = 1,555.0m after 22.46 days since spud



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OMV

DAILY DRILLING REPORT # 24

DATE Jun 15, 2002

FROM : G. Howard / J. Kenrick
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	1,555.0	CUR. HOLE SIZE (")		AFE COST $	11,852,851
TVD (mBRT)	710.4	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
PROGRESS (m)		SHOE TVD (mBRT)	680	DAILY COST :	$338,439.00
DAYS ON WELL	23.46	FIT (sg)	1.41	CUM COST :	12,717,891.00
DAYS +/- CURVE	2.20	LOT (sg)	0.00		

CURRENT OP @ 0600 Lay down 7" landing string.

PLANNED OP. Pull marine riser & BOP. Pull anchors & prepare to move rig off location.

Summary of period 0000 to 2400 hrs

Attempted to run 5.75" SSR plug several times with no succes. Pulled internal tree cap. Ran backup internal tree cap & rigged up slickline.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 15, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SUS	P		WH	00:00	00:30	.50	1,555	Made up wireline crossover & pump in sub to joint of 7" landing string.
SUS	P		WH	00:30	01:00	.50	1,555	Pulled out of hole to tubing hanger running tool.
SUS	P		XT	01:00	01:30	.50	1,555	Made up tree cap to tubing hanger running tool.
SUS	P		XT	01:30	04:00	2.50	1,555	Ran in hole with 7" landing string. Picked up & made up sub sea lubricator valve & control lines.
SUS	P		XT	04:00	04:30	.50	1,555	Rigged up lifting slings to bails. Picked up landing joint with wireline crossover & pump in sub.
SUS	P		XT	04:30	05:00	.50	1,555	Landed tree cap & confirmed with index mark. Locked down cap & pressure tested backside to 3500psi for 10 minutes.
SUS	P		SLK	05:00	06:00	1.00	1,555	Rigged up slickline lubricator & related equipment.
SUS	P		SLK	06:00	06:30	.50	1,555	Ran in hole with 5.75" SSR plug.
SUS	TP	SLK	SLK	06:30	08:30	2.00	1,555	Set 5.75" SSR plug in internal tree cap profile. Pressure tested to 3000psi. Unable to jar running tool free indicating plug not set. Jarred on SSR plug & applied 3000psi to void between upper & lower plugs. Released top plug from internal tree cap profile.
SUS	TP	SLK	SLK	08:30	09:00	.50	1,555	Released internal tree cap running tool.
SUS	TP	SLK	SLK	09:00	09:30	.50	1,555	Pulled out of hole with slickline. Redressed 5.75" SSR plug.
SUS	TP	SLK	SLK	09:30	11:00	1.50	1,555	Circulated down 7" landing string with seawater & washed top of internal tree cap..
SUS	TP	SLK	SLK	11:00	11:30	.50	1,555	Engaged internal tree cap running tool & confirmed with 4000psi.
SUS	TP	SLK	SLK	11:30	12:00	.50	1,555	Ran in hole with 5.75" SSR plug.
SUS	TP	SLK	SLK	12:00	14:00	2.00	1,555	Attempted to set 5.75" SSR plug in internal tree cap with no success. Plug would not set in profile. Released internal tree cap running tool & pulled out of hole with slickline.
SUS	TP	SLK	SLK	14:00	14:30	.50	1,555	Rigged down slickline lubricator & related equipment.
SUS	TP	SLK	SLK	14:30	15:00	.50	1,555	Engaged internal tree cap running tool & confirmed with 4000psi.
SUS	TP	SLK	SLK	15:00	18:00	3.00	1,555	Pulled out of hole with 7" landing string & internal tree cap.
SUS	TP	SLK	SLK	18:00	18:30	.50	1,555	Drilled out jets on jetting tool to 9/32".
SUS	TP	SLK	SLK	18:30	19:00	.50	1,555	Ran in hole with jetting tool on 5" drill pipe to top of tubing hanger.
SUS	TP	SLK	SLK	19:00	20:00	1.00	1,555	Jetted tubing hanger profile & wellhead area with seawater. Jetted riser with kill line & choke line. Swept wellhead area & riser with 20bbl hi vis pill. Spotted 60bbl hi vis pill in riser.
SUS	TP	SLK	SLK	20:00	20:30	.50	1,555	Pulled out of hole with jetting tool.
SUS	TP	SLK	SLK	20:30	21:00	.50	1,555	Made up backup internal tree cap to running tool.
SUS	TP	SLK	SLK	21:00	23:00	2.00	1,555	Ran in hole with 7" landing string to 50m.
SUS	TP	SLK	SLK	23:00	23:30	.50	1,555	Rigged up slickline lubricator & related equipment.
SUS	TP	SLK	SLK	23:30	24:00	.50	1,555	Ran in hole with 5.75" SSR plug.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 16, 2002

DATE Jun 15, 2002

DAILY DRILLING REPORT # 24

BALEEN # 3

VIC/L21

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SUS	P		SLK	00:00	00:30	.50	1,555	Set 5.75" SSR plug in internal tree cap profile. Pressure tested to 3000psi for 10 minutes. Released running tool.
SUS	TP	SLK	SLK	00:30	01:00	.50	1,555	Rigged down slickline lubricator & related equipment.
SUS	TP	SLK	SLK	01:00	02:30	1.50	1,555	Ran in hole with 7" landing string.
SUS	TP	SLK	XT	02:30	03:00	.50	1,555	Landed internal tree cap & confirmed with index mark. Locked down cap & pressure tested backside to 3500psi for 10 minutes.
SUS	P		XT	03:00	05:30	2.50	1,555	Pulled out of hole laying down 7" landing string & related equipment.
SUS	P		XT	05:30	06:00	.50	1,555	Rigged down casing handling equipment .

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	131.0	May 26, 2002	Jun 14, 2002	237.8	9.91	336.0	1,555.0
INTERMEDIATE HOLE (1)	54.3	May 29, 2002	Jun 01, 2002	292.0	12.17	340.0	871.0
INTERMEDIATE CASING (1)	25.0	May 31, 2002	Jun 01, 2002	317.0	13.21	871.0	871.0
PRODUCTION HOLE (1)	61.0	Jun 01, 2002	Jun 05, 2002	378.0	15.75	873.0	1,555.0
SIDETRACKING	29.5	Jun 03, 2002	Jun 04, 2002	407.5	16.98	1,137.0	1,555.0
PRODUCTION CSG/LNR(1)	39.0	Jun 05, 2002	Jun 07, 2002	446.5	18.60	1,555.0	1,555.0
PRODUCTION TEST	78.0	Jun 11, 2002	Jun 14, 2002	524.5	21.85	1,555.0	1,555.0
SUSPENSION	38.0	Jun 14, 2002	Jun 15, 2002	562.5	23.44	1,555.0	1,555.0

WBM Data COST TODAY : CUM. WB MUD COST: $281,065 CUM. WBM+OBM COST: $281,065

Type : **KCL Brine**	VISCOCITY (sec/qt) : 37	API FLUID LOSS (cm3/30min) :	Cl :	SOLIDS (%vol) :
FROM : PIT	PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
TIME : 12:00	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
WEIGHT (sg) : 1.12	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
TEMP (C) :	Fann 3/6/100 :		PM :	PH :
			PF :	PHPA (ppb) :

Bit Data for Bit # **IADC #**

Wear	I	O1	D	L	B	G	O2	R

SIZE (") :

MANUFACTURER :
TYPE :
SERIAL # :
DEPTH IN (m RT) :
DEPTH OUT (m RT) :

AVE WOB (k-lbs) :
AVE RPM :
FLOW (gpm) :
PUMP PRESS. (psi):
HSI (hp/sqi) :

NOZZLES	Drilled over the last 24 hrs		Calculated over the bit run	
X	METERAGE (m) :	0	CUM.METERAGE (m)	0
X	ON BOTTOM HRS :	.0	CUM. ON BOT. HRS :	.0
X	IADC DRILL. HRS :	.0	CUM.IADC DRILL HRS:	.0
X	TOTAL REVS :	0	CUM.TOT. REVS :	0
X	ROP (m/hr):		ROP (m/hr):	

BHA # . **Length (ft) :**

WT BLW JAR(k-lbs):
BHA WT(k-lbs) :

STRING WT(k-lbs) :
PICK UP WT(k-lbs) :
SLK 0FF WT(k-lbs) :

TRQE MAX (ft-lbs):
TRQE ON (ft-lbs):
TRQE OFF (ft-lbs):

D.C. (1) ANN. VELOCITY (mpm): 0
D.C. (2) ANN VELOCITY (mpm): 0
H.W.D.P. ANN VELOCITY (mpm): 0
D.P. ANN VELOCITY (mpm) : 0

BHA DESCRIPTION :

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

Survey

Last Tool Type :
Magnetic Declination : 0.00
Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
1,460	712	85.35	232.	232.0	332.8	3.99	-181.6	-279.1	
1,489	714	89.87	231.	231.9	361.6	4.68	-199.4	-301.9	
1,517	713	93.80	232.	232.1	389.8	4.16	-216.9	-324.2	
1,546	710	95.32	232.	232.2	418.7	1.57	-234.7	-347.2	

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DATE Jun 15, 2002

DAILY DRILLING REPORT # 24

BALEEN # 3

VIC/L21

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	436			436
Bentonite	SX	1662			1662
G-neat	SX	1449			1449
G+35% SiFl	SX	0			0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	22	22	98
Drill Water	M3	400	34	117	483
Heli-fuel	ltr	3819	364		3455
Base Oil	M3				0
Rig Fuel	M3	412	8		403
Brine	M3				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00		97						
2	National	6.00		97						
3	National	6.00		97						

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	866.1 866.1	680.0 680.0		1.41 1.41	Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Displaced with 190 bbls, Bumped plug and pressure tested casing to 3,000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
9 5/8" Well head	2.33	8.750	47.0	L-80	New Vam
X / O Joint (NK3SB pin X N-VAM box)	3.17	8.750	47.0	L-80	N-Vam x NK
58 Joints 9 5/8" Casing	746.36	8.750	47.0	L-80	NK 3SB
Float joint	13.05	8.750	47.0	L-80	N-Vam x NK
Intermediate Joint	12.03	8.750	47.0	L-80	New Vam
Shoe Joint	12.50	8.750	47.0	L-80	New Vam

Personnel : on Site =90

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	6
Drilling Supervisor	J. Kenrick	Service Company	25
Sub Sea Engineer	W. Bates	Diamond Offshore	51
Testing Supervisor	M. Mulliner	Catering	8
Completion Supervisor	L. Taylor		
Drilling Engineer	H. Heinzle		

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER G. Garrick

SHAKER 1	4 x120
SHAKER 2	4 x 120
SHAKER 3	4 x 120
SHAKER 4	4 x 145
SHAKER 5	

VOLUME AVAILABLE (bbl) = 972

ACTIVE	415	MIXING	
HOLE	447	SLUG	
RESERVE	110	HEAVY	

LOSSES (bbl) = 0

DOWNHOLE	
SURF. + EQUIP	0.00
DUMPED	

COMMENTS

Anchors

A 1	204	A 2	241	A 3	210	A 4	204	A 5	185
A 6	163	A7	300	A8	305				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	Standb	416	0	640	167	1188	838	
Pacific Sentinel	Standb	155	1190	393	75			250

Weather

VISIBILITY(nm)	15
WIND SP. (kts)	18.0
WIND DIR (deg)	350
PRES.(mbars)	998
AIR TEMP (C)	13.0

Rig / Sea Data

RIS.TENS (klbs)	216
VDL (mt)	1,934
WAVES (m)	0.9
SWELL (m)	0.9

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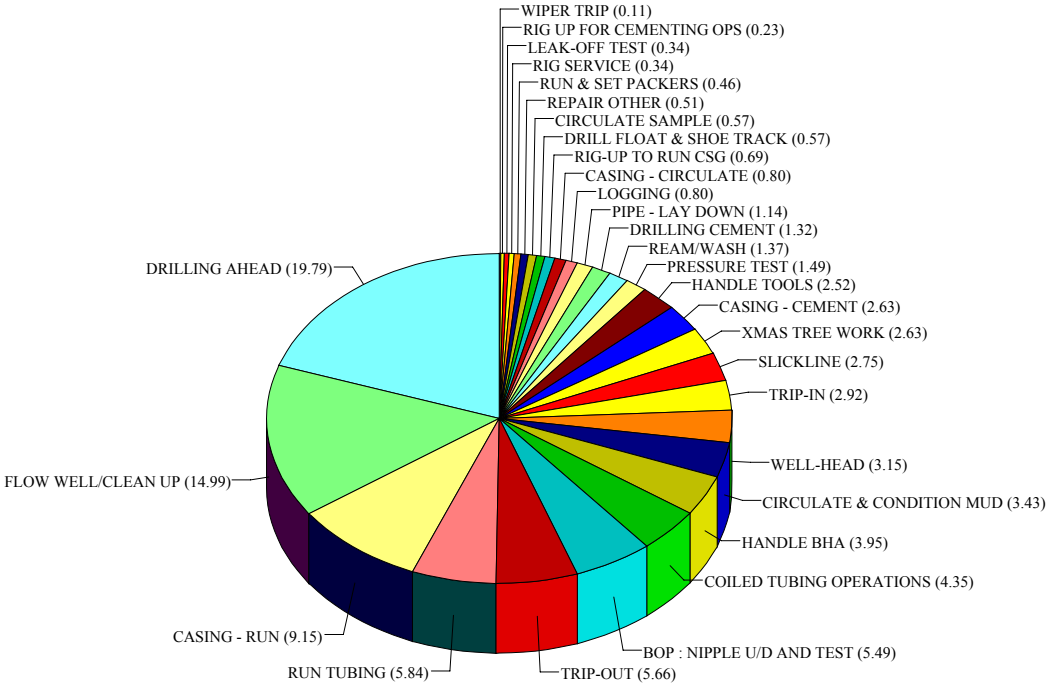
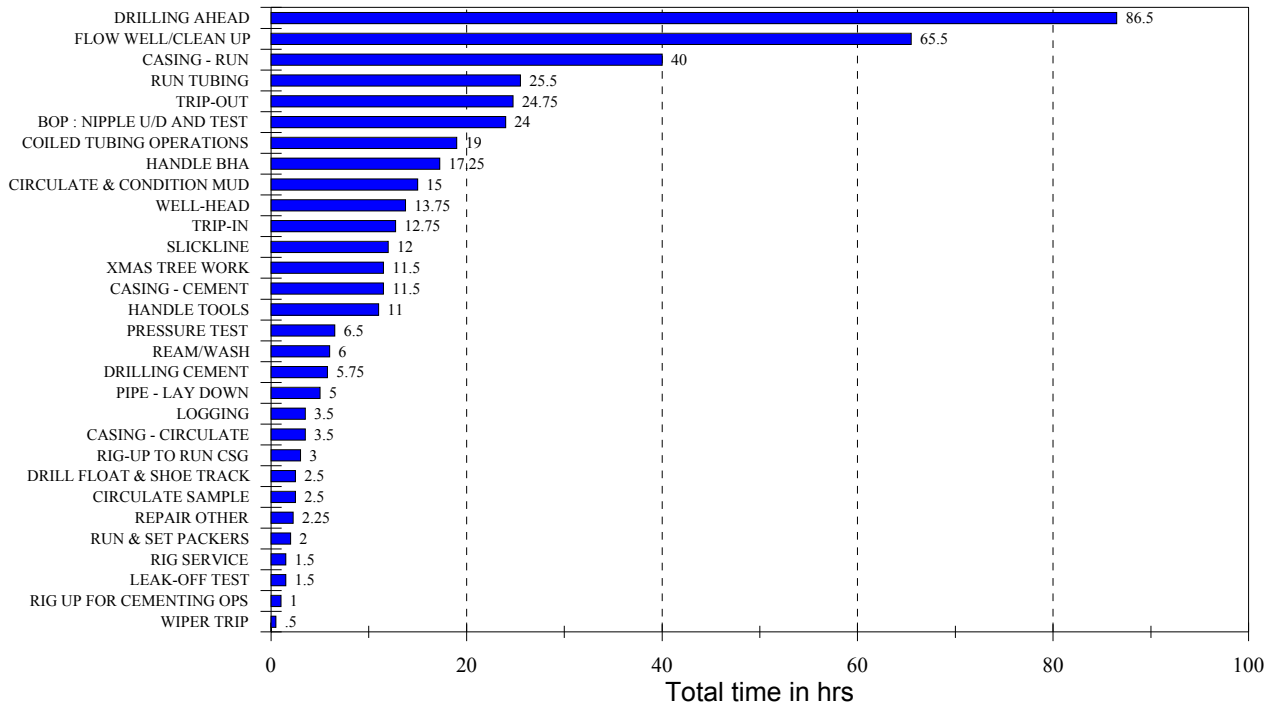
Total move time (hrs)	22.50	Total prod. time since spud (hrs) :	437.00
Total time on well excluding move (hrs)	540.00	Total troub. time since spud (hrs)	103.00
		% Trouble time	19.07

Productive Time by Op.



Productive time by Operation



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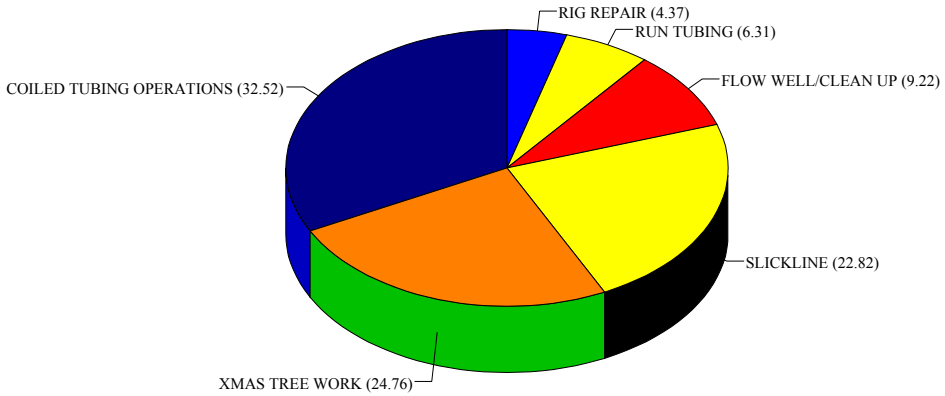
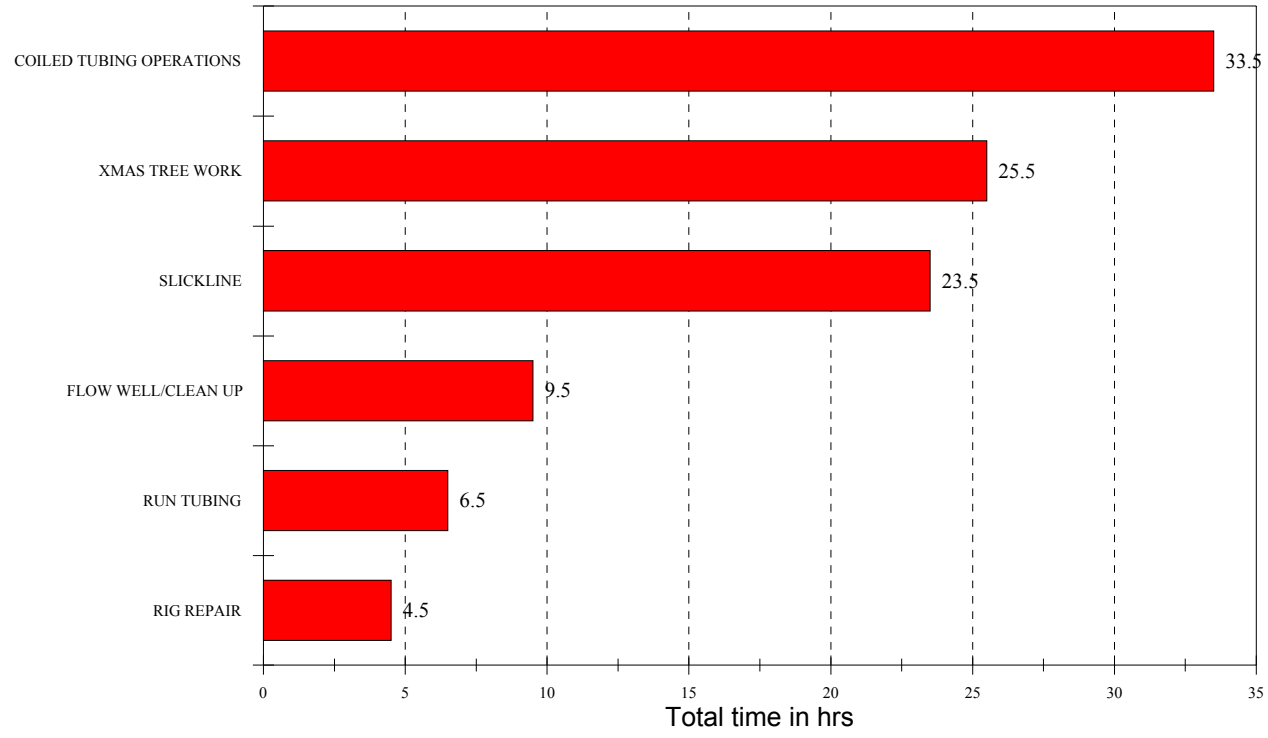
Trouble Time by Op.



NPT by Operation



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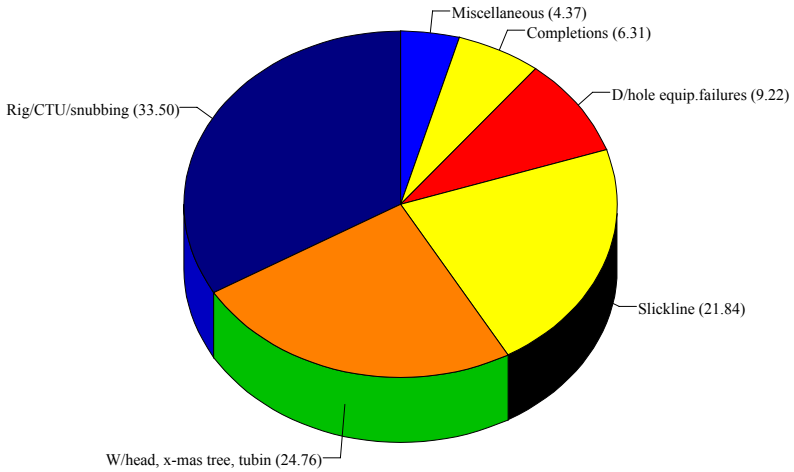
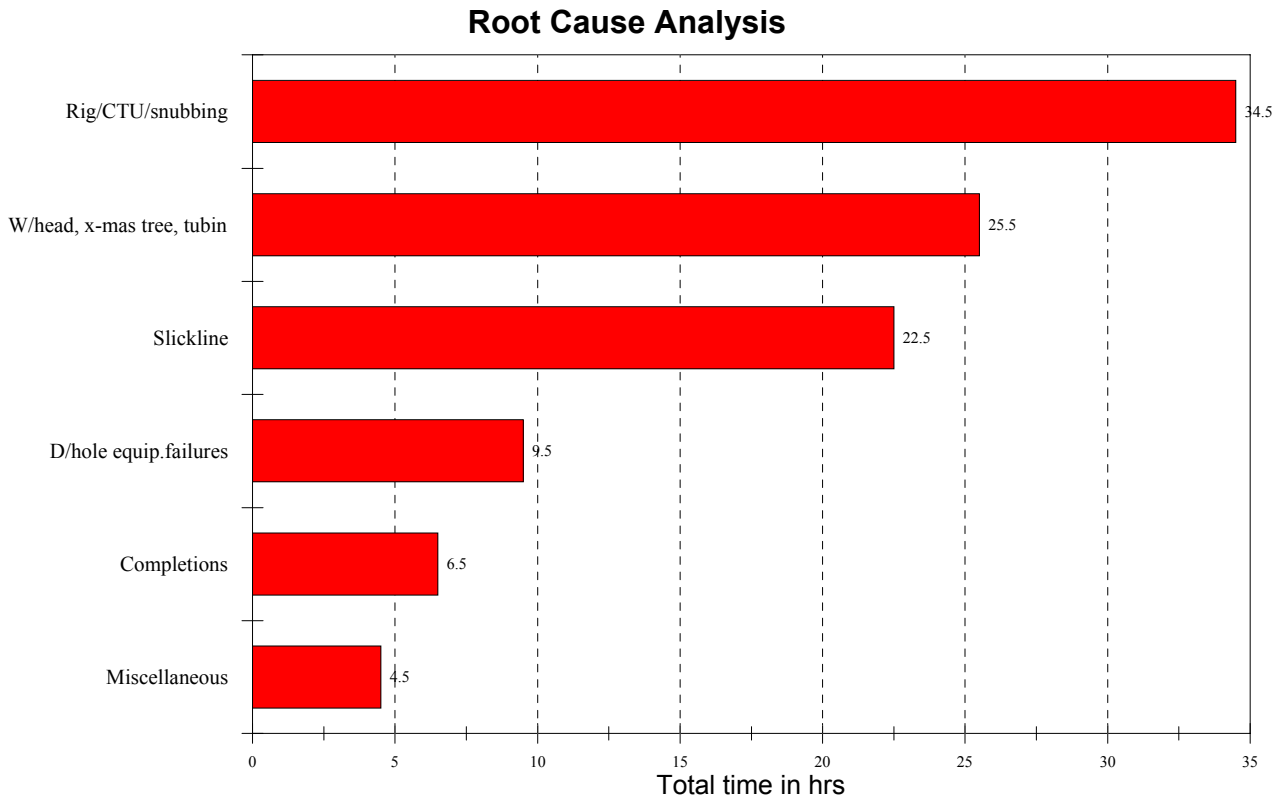
Root Cause Analysis





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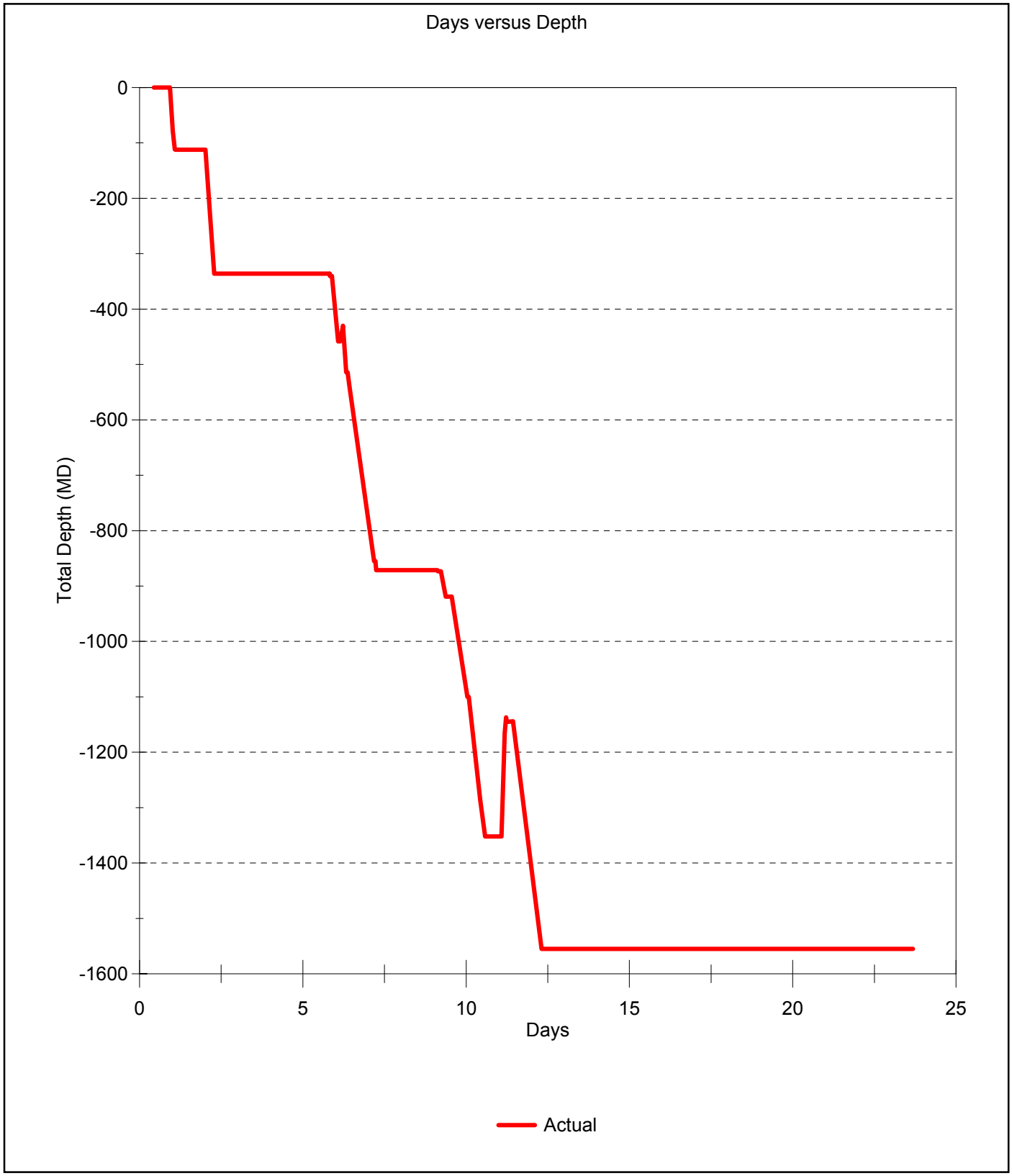
DEPTH @ 24:00 = 1,555.0m after 23.46 days since spud



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OMV

DAILY DRILLING REPORT # 25

DATE Jun 16, 2002

FROM : G. Howard / J. Kenrick
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	1,555.0	CUR. HOLE SIZE (")		AFE COST $	11,852,851
TVD (mBRT)	710.4	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
PROGRESS (m)		SHOE TVD (mBRT)	680	DAILY COST :	$314,298.00
DAYS ON WELL	24.46	FIT (sg)	1.41	CUM COST :	13,032,189.00
DAYS +/- CURVE	2.50	LOT (sg)	0.00		

CURRENT OP @ 0600 Carry out tests & attempt to identify electrical problem in SCR.
PLANNED OP. Complete work on wellhead. Pull anchors & move rig to Patricia 2.

Summary of period 0000 to 2400 hrs

Laid down landing string. Recovered marine riser & BOP. Carried out ROV operations on wellhead & installed corrosion cap.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 16, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SUS	TP		SLK	00:00	00:30	.50	1,555	Set 5.75" SSR plug in internal tree cap profile. Pressure tested to 3000psi for 10 minutes. Released running tool.
SUS	TP	SLK	SLK	00:30	01:00	.50	1,555	Rigged down slickline lubricator & related equipment.
SUS	TP	SLK	SLK	01:00	02:30	1.50	1,555	Ran in hole with 7" landing string.
SUS	TP	SLK	XT	02:30	03:00	.50	1,555	Landed internal tree cap & confirmed with index mark. Locked down cap & pressure tested backside to 3500psi for 10 minutes.
SUS	P		XT	03:00	05:30	2.50	1,555	Pulled out of hole laying down 7" landing string & related equipment.
SUS	P		XT	05:30	06:00	.50	1,555	Rigged down casing handling equipment .
SUS	P		XT	06:00	06:30	.50	1,555	Rigged down control line umbilical & related equipment.
RMO	P		RR2	06:30	08:00	1.50	1,555	Rigged up riser handling equipment.
SUS	P		RR2	08:00	11:00	3.00	1,555	Recovered & laid down diverter. Picked up & nippled up landing joint. Ballasted up to 20m.
SUS	P		RR2	11:00	12:00	1.00	1,555	Unlatched BOP & moved rig 8m off location.
SUS	P		RR2	12:00	15:30	3.50	1,555	Recovered marine riser & BOP.
SUS	P		RR2	15:30	16:00	.50	1,555	Jetted BOP ram cavities with jetting tool.
SUS	P		XT	16:00	23:00	7.00	1,555	Rigged up & ran deployment frame on tugger line. ROV assisted.
SUS	P		XT	23:00	24:00	1.00	1,555	Ran corrosion cap on drillpipe. ROV positioned & latched corrosion cap.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 17, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SUS	TP	MSC	RR	00:00	06:00	6.00	1,555	Rig power lost. Unable to operate TDS or carry out ROV operations. Carried out tests & attempted to identify electrical problem in SCR.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	131.0	May 26, 2002	Jun 14, 2002	237.8	9.91	336.0	1,555.0
INTERMEDIATE HOLE (1)	54.3	May 29, 2002	Jun 01, 2002	292.0	12.17	340.0	871.0
INTERMEDIATE CASING (1)	25.0	May 31, 2002	Jun 01, 2002	317.0	13.21	871.0	871.0
PRODUCTION HOLE (1)	61.0	Jun 01, 2002	Jun 05, 2002	378.0	15.75	873.0	1,555.0
SIDETRACKING	29.5	Jun 03, 2002	Jun 04, 2002	407.5	16.98	1,137.0	1,555.0
PRODUCTION CSG/LNR(1)	39.0	Jun 05, 2002	Jun 07, 2002	446.5	18.60	1,555.0	1,555.0
PRODUCTION TEST	78.0	Jun 11, 2002	Jun 14, 2002	524.5	21.85	1,555.0	1,555.0
SUSPENSION	60.5	Jun 14, 2002	Jun 16, 2002	585.0	24.38	1,555.0	1,555.0
RIG-DOWN/MOVE OUT	1.5	Jun 16, 2002	Jun 16, 2002	586.5	24.44	1,555.0	1,555.0

DATE Jun 16, 2002

DAILY DRILLING REPORT # 25

BALEEN # 3

VIC/L21

WBM Data COST TODAY : CUM. WB MUD COST: $281,065 CUM. WBM+OBM COST: $281,065

Type : **KCL Brine**	VISCOCITY (sec/qt) : 37	API FLUID LOSS (cm3/30min) :	Cl :	SOLIDS (%vol) :
FROM : PIT	PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
TIME : 12:00	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
WEIGHT (sg) : 1.12	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
TEMP (C) :	Fann 3/6/100 :		PM :	PH :
			PF :	PHPA (ppb) :

Bit Data for Bit # **IADC #**

SIZE (") :

MANUFACTURER :

TYPE :

SERIAL # :

DEPTH IN (m RT) :

DEPTH OUT (m RT) :

AVE WOB (k-lbs) :

AVE RPM :

FLOW (gpm) :

PUMP PRESS. (psi):

HSI (hp/sqi) :

Wear

I	O1	D	L	B	G	O2	R

NOZZLES

x

x

x

x

x

Drilled over the last 24 hrs

METERAGE (m) : 0

ON BOTTOM HRS : .0

IADC DRILL. HRS : .0

TOTAL REVS : 0

ROP (m/hr):

Calculated over the bit run

CUM.METERAGE (m) 0

CUM. ON BOT. HRS : .0

CUM.IADC DRILL HRS: .0

CUM.TOT. REVS : 0

ROP (m/hr):

BHA # . Length (ft) :

WT BLW JAR(k-lbs):

BHA WT(k-lbs) :

STRING WT(k-lbs) :

PICK UP WT(k-lbs) :

SLK 0FF WT(k-lbs) :

TRQE MAX (ft-lbs):

TRQE ON (ft-lbs):

TRQE OFF (ft-lbs):

D.C. (1) ANN. VELOCITY (mpm): 0

D.C. (2) ANN VELOCITY (mpm): 0

H.W.D.P. ANN VELOCITY (mpm): 0

D.P. ANN VELOCITY (mpm) : 0

BHA DESCRIPTION :

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
1,460	712	85.35	232.	232.0	332.8	3.99	-181.6	-279.1	
1,489	714	89.87	231.	231.9	361.6	4.68	-199.4	-301.9	
1,517	713	93.80	232.	232.1	389.8	4.16	-216.9	-324.2	
1,546	710	95.32	232.	232.2	418.7	1.57	-234.7	-347.2	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	436			436
Bentonite	SX	1662			1662
G-neat	SX	1449			1449
G+35% SiFl	SX	0			0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	22	22	98
Drill Water	M3	483	25		459
Heli-fuel	ltr	3455			3455
Base Oil	M3				0
Rig Fuel	M3	403	8		395
Brine	M3				0

Pump Data

	Pump Data - last 24 hrs						Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00		97						
2	National	6.00		97						
3	National	6.00		97						

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DATE Jun 16, 2002

DAILY DRILLING REPORT # 25

BALEEN # 3

VIC/L21

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	866.1 866.1	680.0 680.0		1.41 1.41	Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Displaced with 190 bbls, Bumped plug and pressure tested casing to 3,000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
9 5/8" Well head	2.33	8.750	47.0	L-80	New Vam
X / O Joint (NK3SB pin X N-VAM box)	3.17	8.750	47.0	L-80	N-Vam x NK
58 Joints 9 5/8" Casing	746.36	8.750	47.0	L-80	NK 3SB
Float joint	13.05	8.750	47.0	L-80	N-Vam x NK
Intermediate Joint	12.03	8.750	47.0	L-80	New Vam
Shoe Joint	12.50	8.750	47.0	L-80	New Vam

Personnel : on Site =90

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	6
Drilling Supervisor	J. Kenrick	Service Company	25
Sub Sea Engineer	W. Bates	Diamond Offshore	51
Testing Supervisor	M. Mulliner	Catering	8
Completion Supervisor	L. Taylor		
Drilling Engineer	H. Heinzle		

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER G. Garrick

SHAKER 1	4 x120
SHAKER 2	4 x 120
SHAKER 3	4 x 120
SHAKER 4	4 x 145
SHAKER 5	

VOLUME AVAILABLE (bbl) = 972

ACTIVE	415	MIXING	
HOLE	447	SLUG	
RESERVE	110	HEAVY	

LOSSES (bbl) = 0

DOWNHOLE	
SURF. + EQUIP	0.00
DUMPED	

COMMENTS

Anchors

A 1	320	A 2	260	A 3	225	A 4	270	A 5	186
A 6	160	A7	280	A8	295				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	Standb	414	0	640	162	1188	838	
Pacific Sentinel	Standb	151	1190	393	70			250

Weather

VISIBILITY(nm)	12
WIND SP. (kts)	20.0
WIND DIR (deg)	260
PRES.(mbars)	1004
AIR TEMP (C)	13.0

Rig / Sea Data

RIS.TENS (klbs)	0
VDL (mt)	2,026
WAVES (m)	1.0
SWELL (m)	1.5

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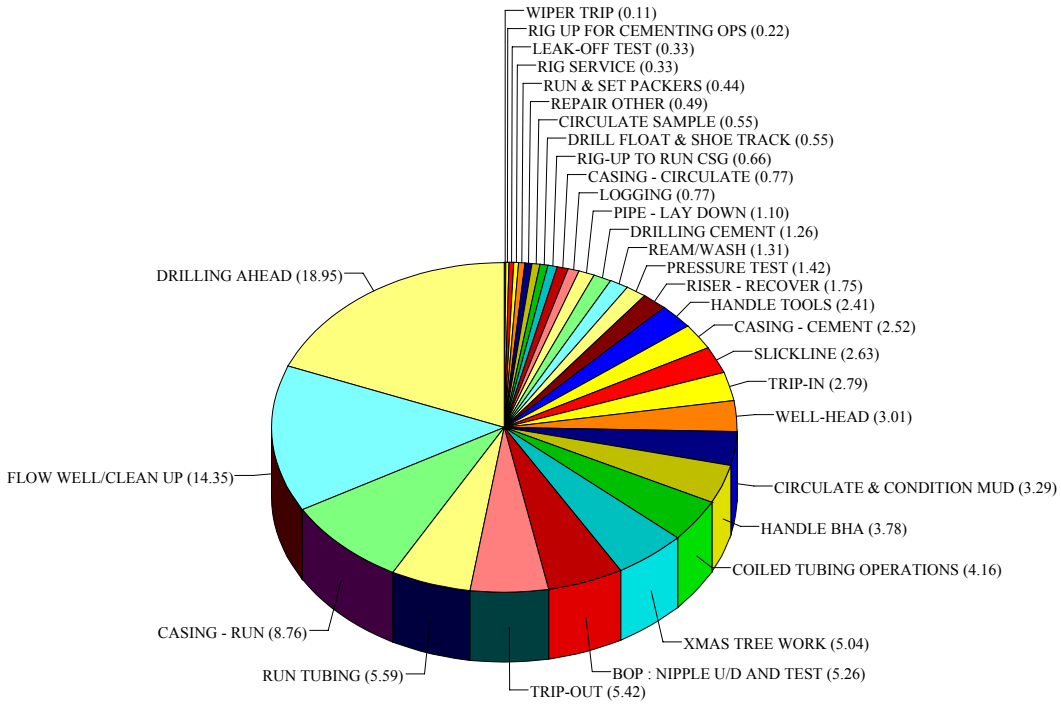
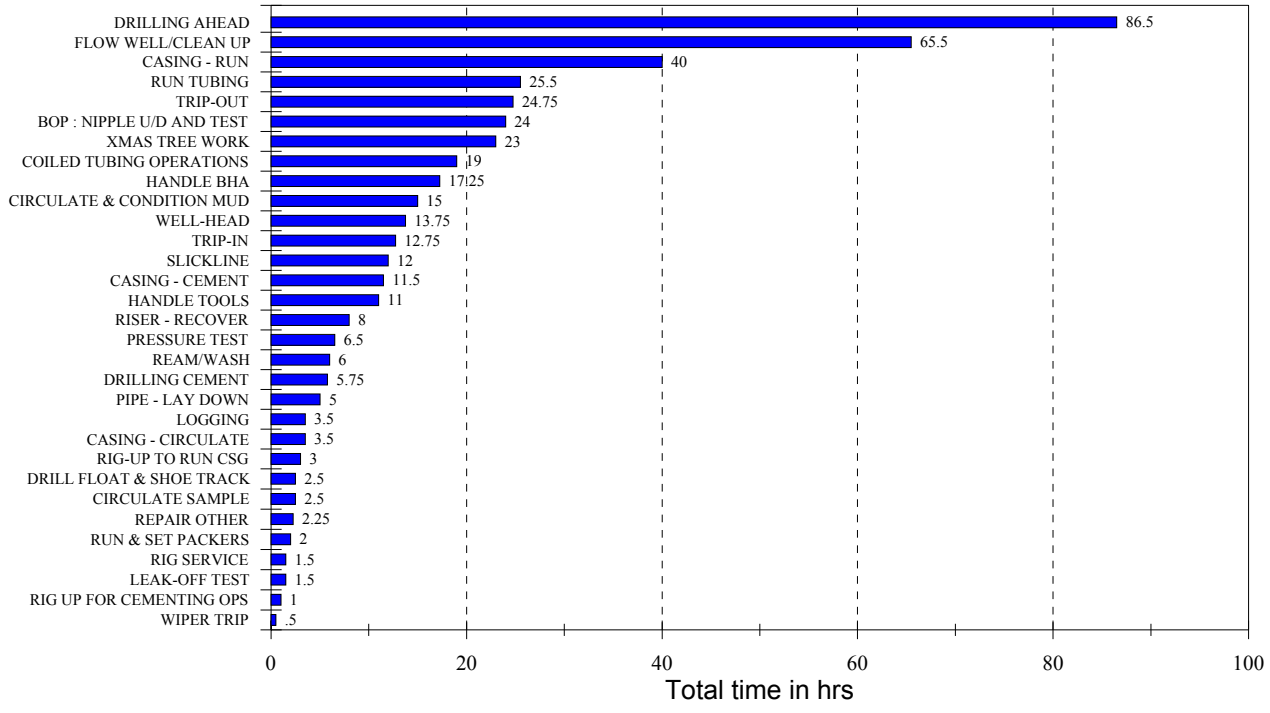
Total move time (hrs)	**24.00**	**Total prod. time since spud (hrs) :**	**456.50**
Total time on well excluding move (hrs)	**562.50**	**Total troub. time since spud (hrs)**	**106.00**
		% Trouble time	**18.84**

Productive Time by Op.



Productive time by Operation



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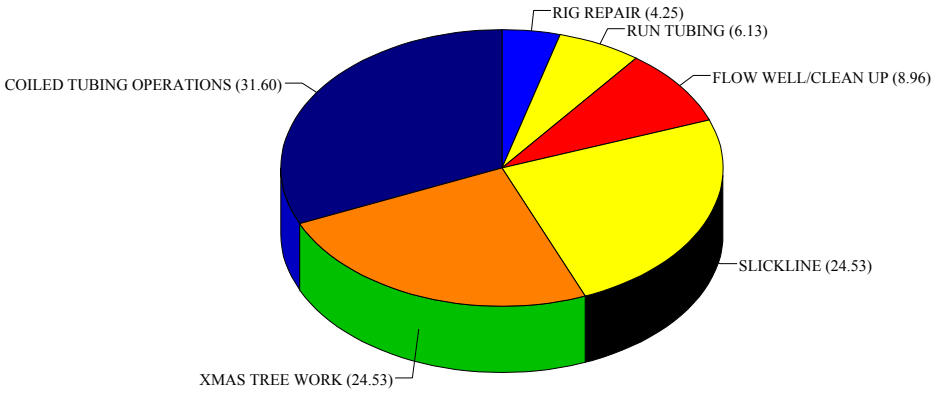
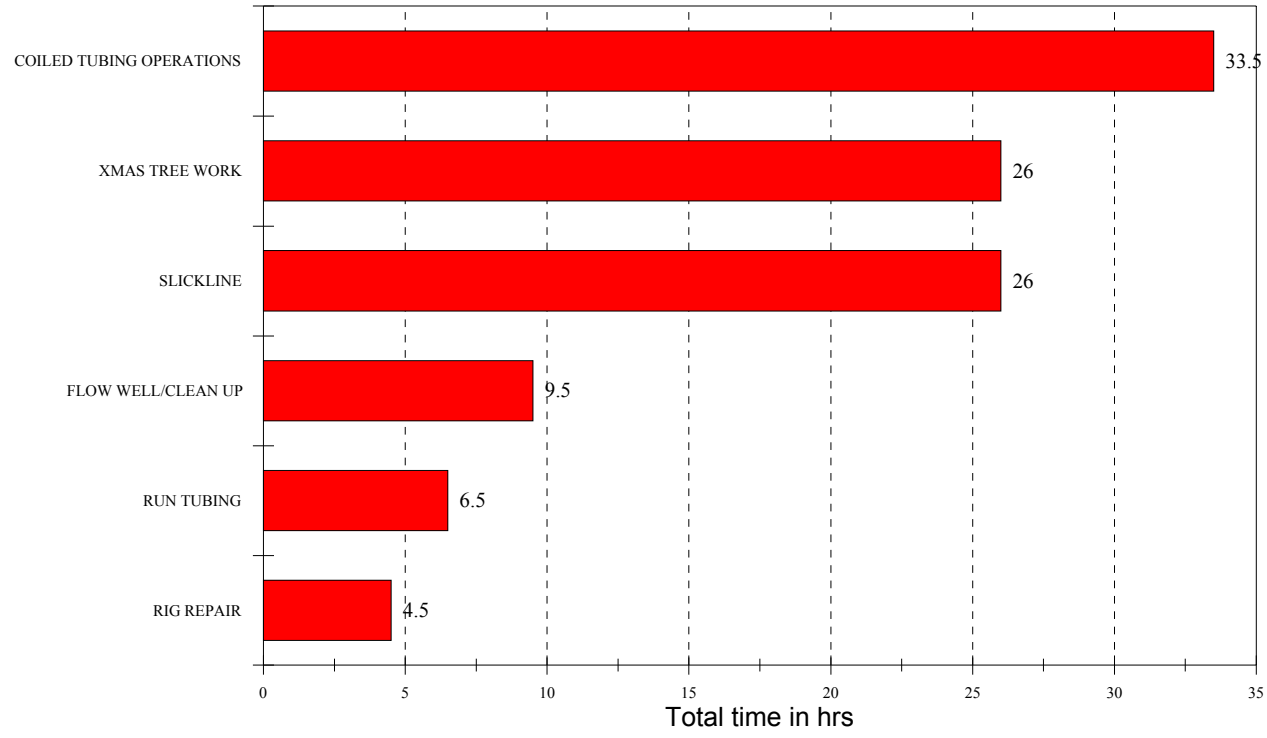
Trouble Time by Op.



NPT by Operation



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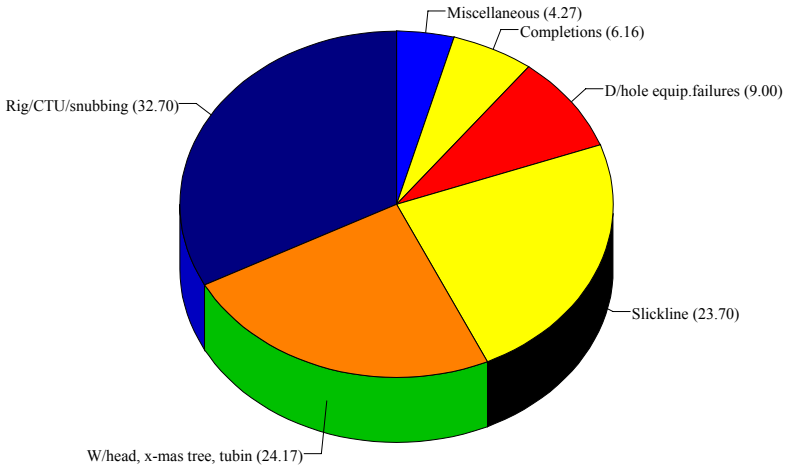
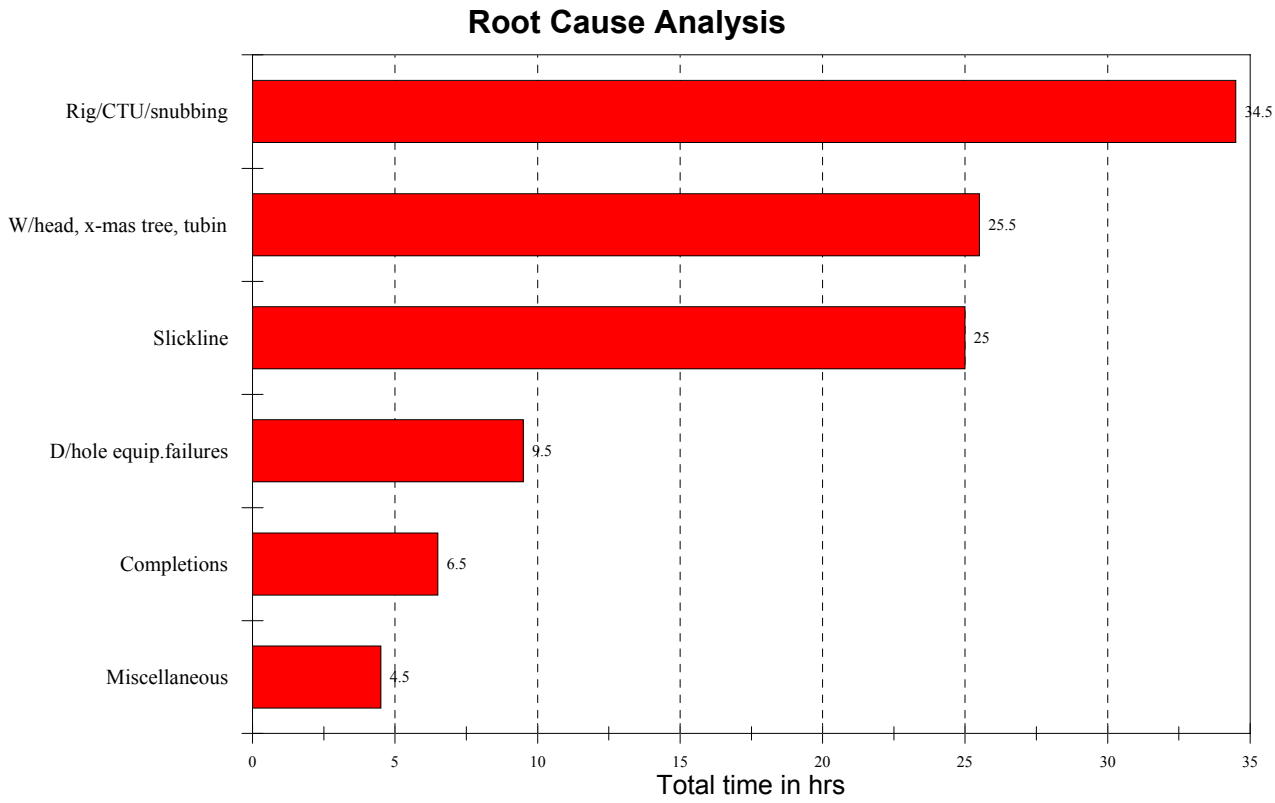
Root Cause Analysis





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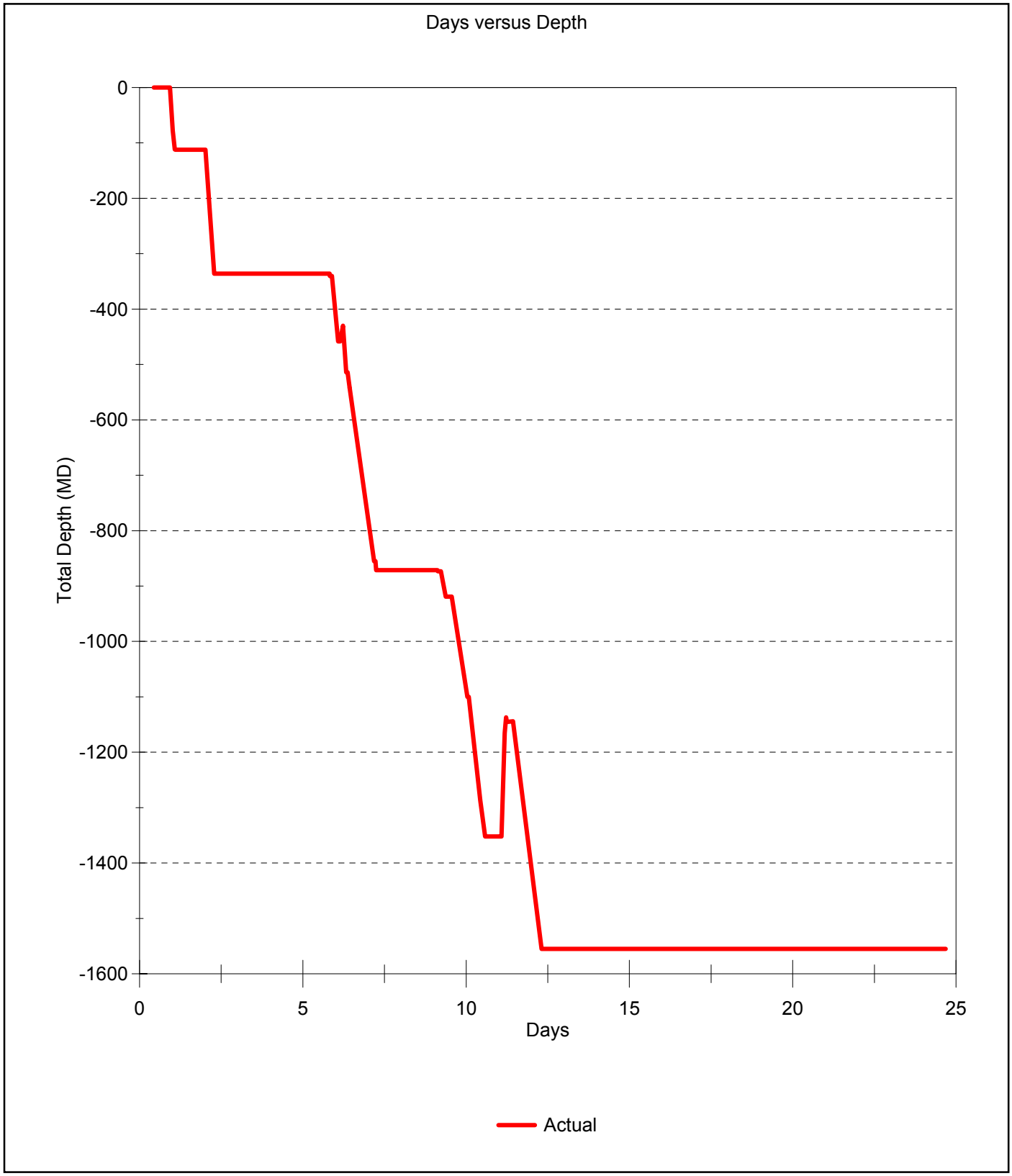
DEPTH @ 24:00 = 1,555.0m after 24.46 days since spud



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OMV

DAILY DRILLING REPORT # 26

DATE Jun 17, 2002

FROM : G. Howard / J. Kenrick
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	1,555.0	CUR. HOLE SIZE (")		AFE COST $	11,852,851
TVD (mBRT)	710.4	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
PROGRESS (m)		SHOE TVD (mBRT)	680	DAILY COST :	$331,715.00
DAYS ON WELL	25.46	FIT (sg)	1.41	CUM COST :	13,363,904.00
DAYS +/- CURVE	3.00	LOT (sg)	0.00		

CURRENT OP @ 0600 Wait on weather conditions to moderate.

PLANNED OP. Complete ROV operations on wellhead. Pull anchors & move rig off Baleen-3 location.

Summary of period 0000 to 2400 hrs

Identified & rectified electrical problem in AC module in SCR. Carried out operations on wellhead with ROV. Waited on weather conditions to moderate.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 17, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SUS	TP	MSC	RR	00:00	08:00	8.00	1,555	Rig power lost. Unable to operate TDS or carry out ROV operations. Identified & rectified electrical fault in AC module on SCR.
SUS	P		XT	08:00	15:00	7.00	1,555	Pulled corrosion cap running tool back to surface. Jumped ROV & carried out final tests on wellhead control system on hot stab A.
SUS	TP	MSC	XT	15:00	15:30	.50	1,555	Recovered ROV & repaired leaking hydraulic fitting on starboard arm.
SUS	P		WH	15:30	17:00	1.50	1,555	Jumped ROV & pulled pins on guide posts 3 & 4. Recovered posts to surface. Sheared pin on schilling arm whilst attempting to stab electrical umbilical on hot stab B.
SUS	TP	MSC	WH	17:00	17:30	.50	1,555	Recovered ROV & replaced shear pin in schilling arm.
SUS	TP	WEA	NOW	17:30	23:30	6.00	1,555	Jumped ROV & waited for weather conditions to moderate.
SUS	TP	WEA	NOW	23:30	24:00	.50	1,555	Recovered ROV. Weather conditions outside acceptable operating limits for ROV.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 18, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SUS	TP	WEA	NOW	00:00	06:00	6.00	1,555	Weather conditions outside acceptable operating limits for ROV. Waited on weather conditions to moderate.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	131.0	May 26, 2002	Jun 14, 2002	237.8	9.91	336.0	1,555.0
INTERMEDIATE HOLE (1)	54.3	May 29, 2002	Jun 01, 2002	292.0	12.17	340.0	871.0
INTERMEDIATE CASING (1)	25.0	May 31, 2002	Jun 01, 2002	317.0	13.21	871.0	871.0
PRODUCTION HOLE (1)	61.0	Jun 01, 2002	Jun 05, 2002	378.0	15.75	873.0	1,555.0
SIDETRACKING	29.5	Jun 03, 2002	Jun 04, 2002	407.5	16.98	1,137.0	1,555.0
PRODUCTION CSG/LNR(1)	39.0	Jun 05, 2002	Jun 07, 2002	446.5	18.60	1,555.0	1,555.0
PRODUCTION TEST	78.0	Jun 11, 2002	Jun 14, 2002	524.5	21.85	1,555.0	1,555.0
SUSPENSION	84.5	Jun 14, 2002	Jun 17, 2002	609.0	25.38	1,555.0	1,555.0
RIG-DOWN/MOVE OUT	1.5	Jun 16, 2002	Jun 16, 2002	610.5	25.44	1,555.0	1,555.0

WBM Data COST TODAY : CUM. WB MUD COST: $281,065 CUM. WBM+OBM COST: $281,065

Type :	VISCOCITY (sec/qt) :	API FLUID LOSS (cm3/30min) :	Cl :	SOLIDS (%vol) :
	PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
FROM :	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
TIME :	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
WEIGHT (sg) :			PM :	PH :
TEMP (C) :	Fann 3/6/100 :		PF :	PHPA (ppb) :

DATE Jun 17, 2002

DAILY DRILLING REPORT # 26

BALEEN # 3

VIC/L21

Bit Data for Bit # **IADC #**

Wear	I	O1	D	L	B	G	O2	R

SIZE (") :

MANUFACTURER :

TYPE :

SERIAL # :

DEPTH IN (m RT) :

DEPTH OUT (m RT) :

AVE WOB (k-lbs) :

AVE RPM :

FLOW (gpm) :

PUMP PRESS. (psi):

HSI (hp/sqi) :

NOZZLES	Drilled over the last 24 hrs		Calculated over the bit run	
X	METERAGE (m) :	0	CUM.METERAGE (m)	0
X	ON BOTTOM HRS :	.0	CUM. ON BOT. HRS :	.0
X	IADC DRILL. HRS :	.0	CUM.IADC DRILL HRS:	.0
X	TOTAL REVS :	0	CUM.TOT. REVS :	0
X	ROP (m/hr):		ROP (m/hr):	

BHA # . **Length (ft) :**

WT BLW JAR(k-lbs):

BHA WT(k-lbs) :

STRING WT(k-lbs) :

PICK UP WT(k-lbs) :

SLK 0FF WT(k-lbs) :

TRQE MAX (ft-lbs):

TRQE ON (ft-lbs):

TRQE OFF (ft-lbs):

D.C. (1) ANN. VELOCITY (mpm): 0

D.C. (2) ANN VELOCITY (mpm): 0

H.W.D.P. ANN VELOCITY (mpm): 0

D.P. ANN VELOCITY (mpm) : 0

BHA DESCRIPTION :

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
1,460	712	85.35	232.	232.0	332.8	3.99	-181.6	-279.1	
1,489	714	89.87	231.	231.9	361.6	4.68	-199.4	-301.9	
1,517	713	93.80	232.	232.1	389.8	4.16	-216.9	-324.2	
1,546	710	95.32	232.	232.2	418.7	1.57	-234.7	-347.2	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	436			436
Bentonite	SX	1662			1662
G-neat	SX	1449			1449
G+35% SiFl	SX	0			0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	23	23	98
Drill Water	M3	459	15		444
Heli-fuel	ltr	3455	778		2677
Base Oil	M3				0
Rig Fuel	M3	395	7		388
Brine	M3				0

Pump Data

	Pump Data - last 24 hrs						Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00		97						
2	National	6.00		97						
3	National	6.00		97						

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	866.1 866.1	680.0 680.0		1.41 1.41	Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Displaced with 190 bbls, Bumped plug and pressure tested casing to 3,000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
9 5/8" Well head	2.33	8.750	47.0	L-80	New Vam
X / O Joint (NK3SB pin X N-VAM box)	3.17	8.750	47.0	L-80	N-Vam x NK
58 Joints 9 5/8" Casing	746.36	8.750	47.0	L-80	NK 3SB
Float joint	13.05	8.750	47.0	L-80	N-Vam x NK
Intermediate Joint	12.03	8.750	47.0	L-80	New Vam
Shoe Joint	12.50	8.750	47.0	L-80	New Vam

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DATE Jun 17, 2002

DAILY DRILLING REPORT # 26

BALEEN # 3

VIC/L21

Personnel : on Site =87

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	4
Drilling Supervisor	J. Kenrick	Service Company	24
Sub Sea Engineer	W. Bates	Diamond Offshore	51
Drilling Engineer	P. Zehepleitner	Catering	8

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER G. Garrick/S. Andrews

SHAKER 1	4 x120
SHAKER 2	4 x 120
SHAKER 3	4 x 120
SHAKER 4	4 x 145
SHAKER 5	

VOLUME AVAILABLE (bbl) = 0

ACTIVE	MIXING
HOLE	SLUG
RESERVE	HEAVY

LOSSES (bbl) = 0

DOWNHOLE	
SURF. + EQUIP	0.00
DUMPED	

COMMENTS

Anchors

A 1	310	A 2	249	A 3	193	A 4	225	A 5	160
A 6	155	A7	285	A8	290				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	Standby	408	0	640	157	1188	838	39.74
Pacific Sentinel	Standby	147	1190	393	65			87.44

Weather

VISIBILITY(nm)	12
WIND SP. (kts)	30.0
WIND DIR (deg)	150
PRES.(mbars)	1016
AIR TEMP (C)	13.0

Rig / Sea Data

RIS.TENS (klbs)	0
VDL (mt)	1,845
WAVES (m)	2.7
SWELL (m)	1.8

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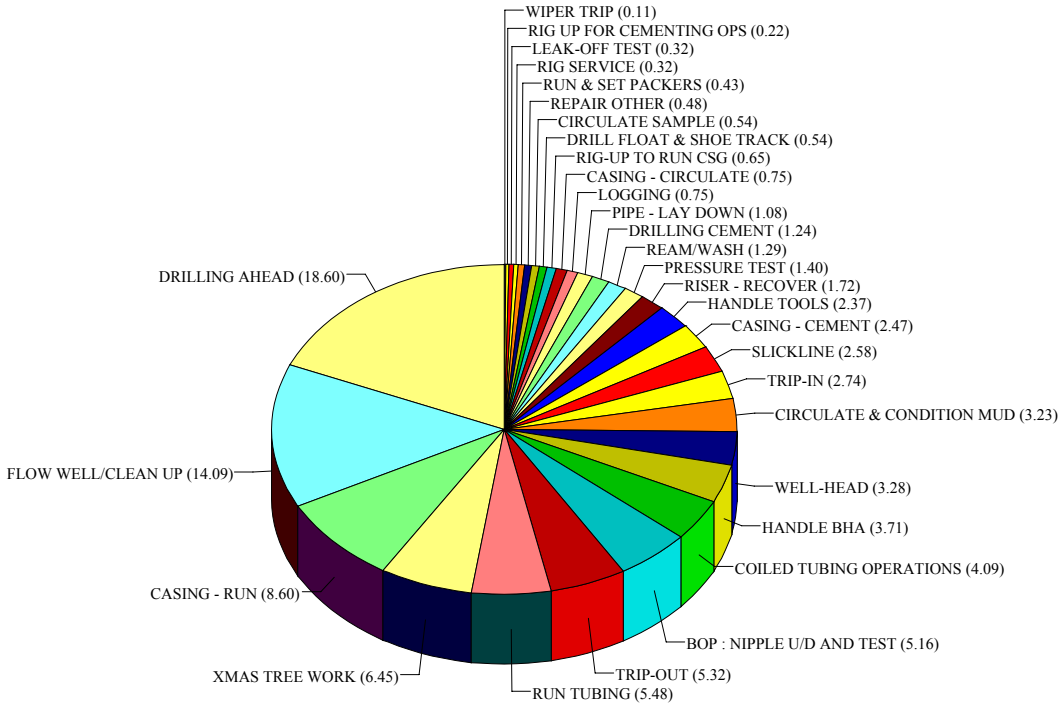
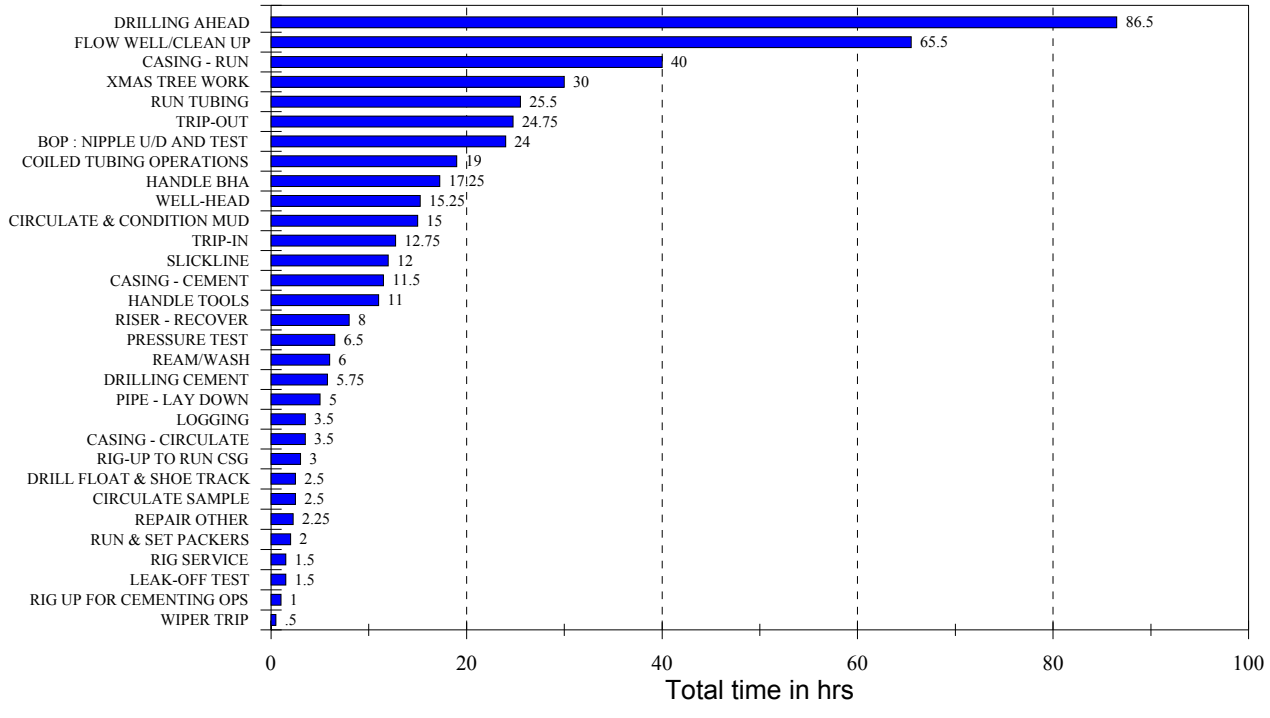
Total move time (hrs)	**24.00**	**Total prod. time since spud (hrs) :**	**465.00**
Total time on well excluding move (hrs)	**586.50**	**Total troub. time since spud (hrs)**	**121.50**
		% Trouble time	**20.72**

Productive Time by Op.



Productive time by Operation



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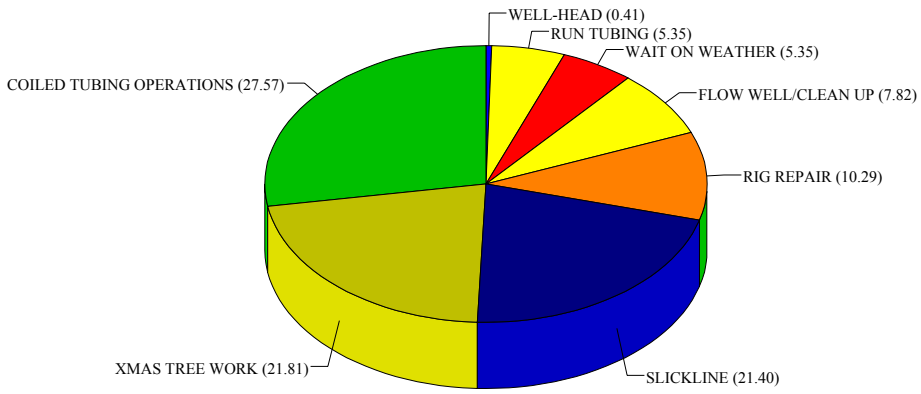
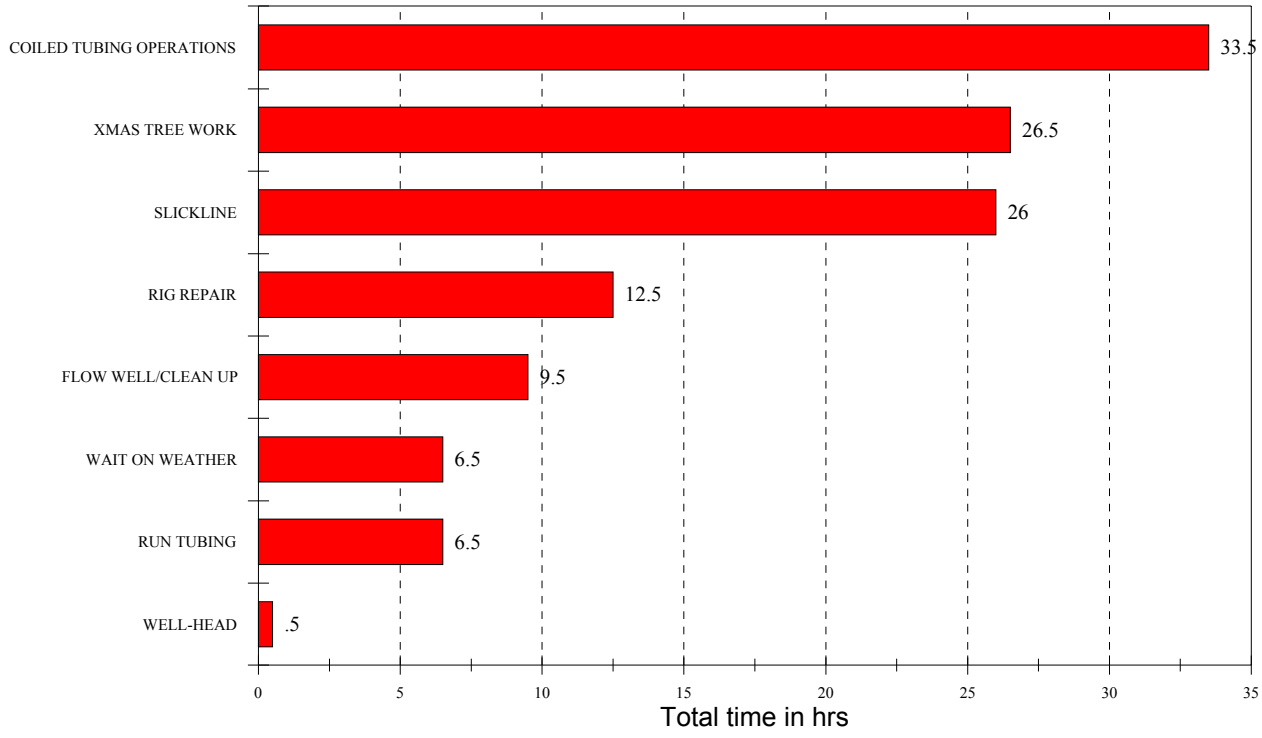
Trouble Time by Op.



NPT by Operation



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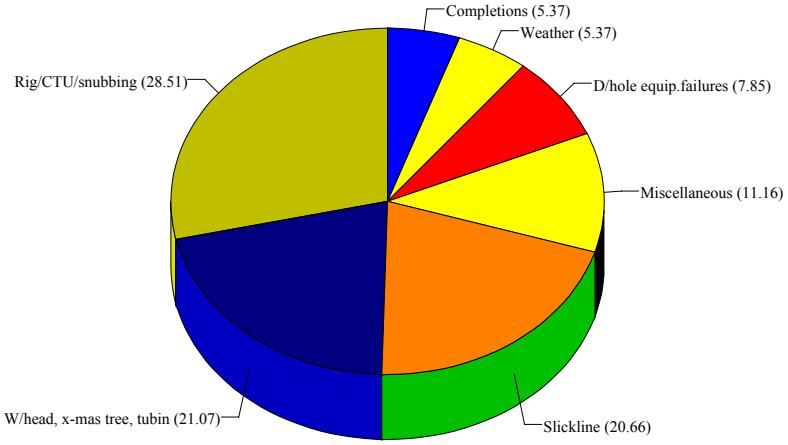
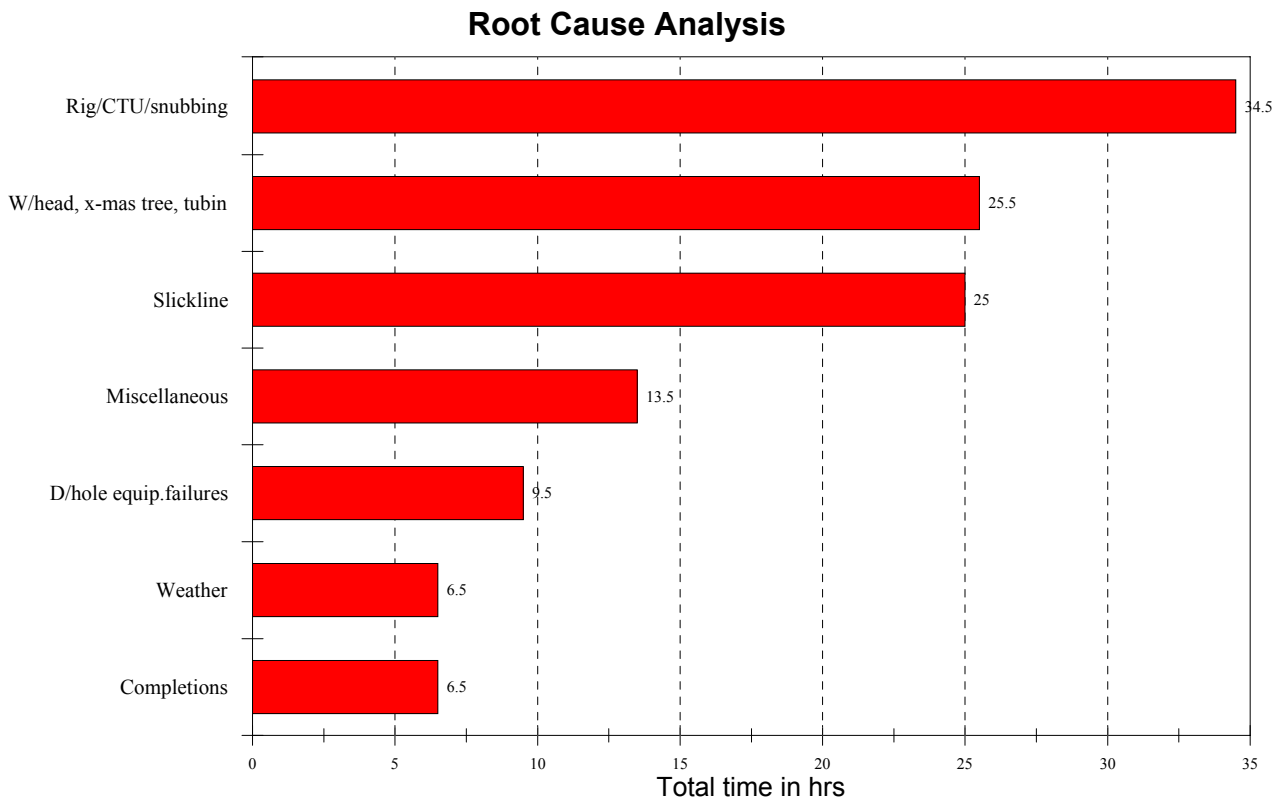
Root Cause Analysis





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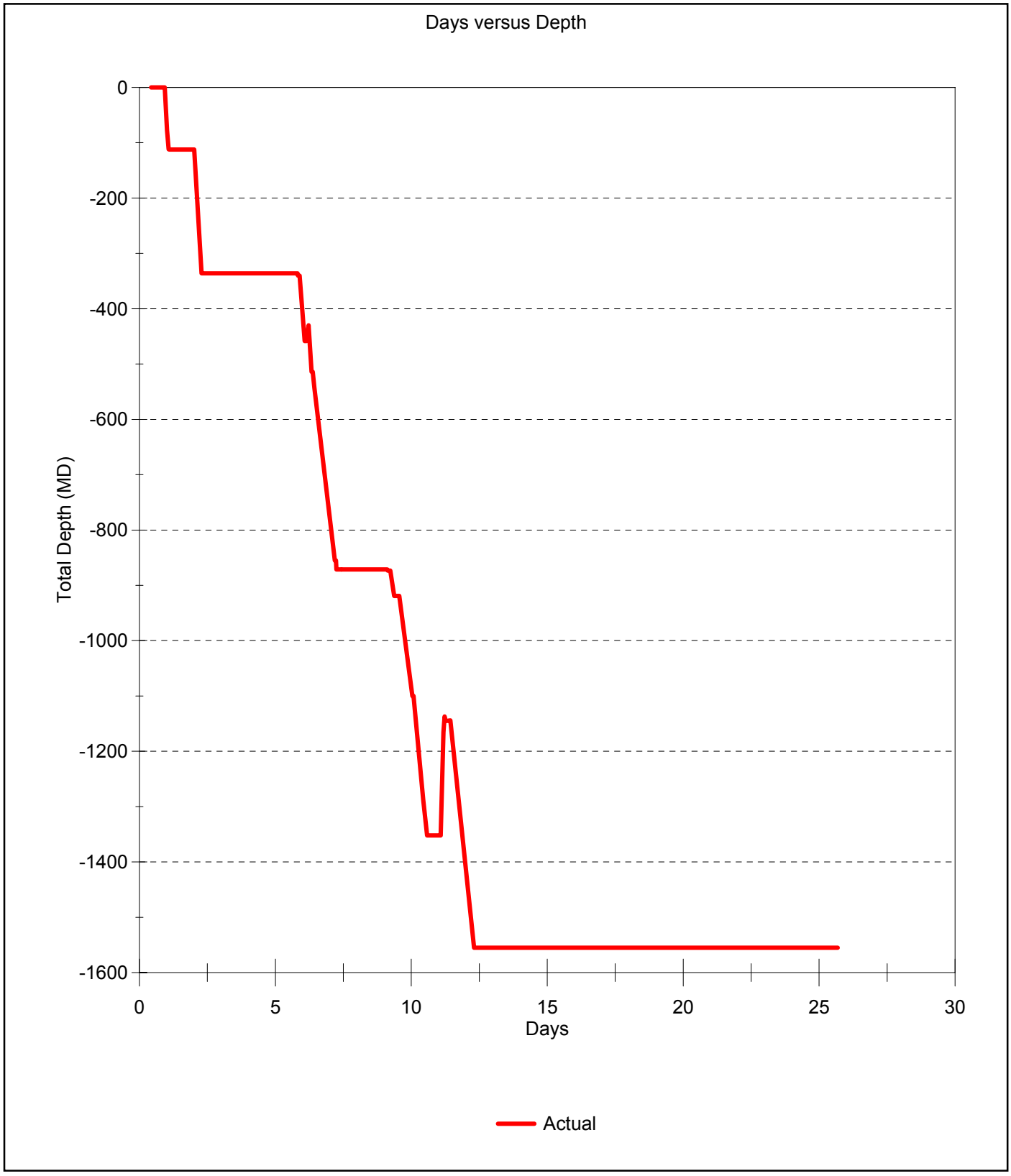
DEPTH @ 24:00 = 1,555.0m after 25.46 days since spud



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OMV

DAILY DRILLING REPORT # 27

DATE Jun 18, 2002

FROM : G. Howard / J. Kenrick
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	1,555.0	CUR. HOLE SIZE (")		AFE COST $	11,852,851
TVD (mBRT)	710.4	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
PROGRESS (m)		SHOE TVD (mBRT)	680	DAILY COST :	$336,128.00
DAYS ON WELL	26.46	FIT (sg)	1.41	CUM COST :	13,700,032.00
DAYS +/- CURVE	4.00	LOT (sg)	0.00		

CURRENT OP @ 0600 Pulling anchors.
PLANNED OP. Pull anchors & move rig to Patricia 2.

Summary of period 0000 to 2400 hrs

Waited on weather conditions to moderate. Carried out rig maintenance.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 18, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SUS	TP	WEA	NOW	00:00	24:00	24.00	1,555	Weather conditions outside acceptable operating limits for ROV. Waited on weather conditions to moderate. Carried our rig maintenance. Made up spud assembly, made up cement head, changed space out on hang off tool. Jumped ROV periodically. Visibility 0.5m & swell surge above safe operating limits.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 19, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SUS	P		XT	00:00	03:00	3.00	1,555	Sea conditions moderating & visibility 1.0m. Pulled electrical jumper & hung off deployment frame. Pulled hydraulic umbilical & stabbed on deployment frame.
SUS	P		XT	03:00	03:30	.50	1,555	Recovered deployment frame to surface. Recovered ROV & replaced dogs on bucket tool. Reclamped camera on schilling arm.
SUS	P		WH	03:30	05:00	1.50	1,555	Jumped ROV & pulled pin on guide post. Recovered guide posts to surface. Set blank in subsea control module. Attempted to set blank in electrical module A with no success. Dropped blank on seabed. Recovered ROV.
RMO	P		AH	05:00	06:00	1.00	1,555	Positioned vessels & pulled anchors.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	131.0	May 26, 2002	Jun 14, 2002	237.8	9.91	336.0	1,555.0
INTERMEDIATE HOLE (1)	54.3	May 29, 2002	Jun 01, 2002	292.0	12.17	340.0	871.0
INTERMEDIATE CASING (1)	25.0	May 31, 2002	Jun 01, 2002	317.0	13.21	871.0	871.0
PRODUCTION HOLE (1)	61.0	Jun 01, 2002	Jun 05, 2002	378.0	15.75	873.0	1,555.0
SIDETRACKING	29.5	Jun 03, 2002	Jun 04, 2002	407.5	16.98	1,137.0	1,555.0
PRODUCTION CSG/LNR(1)	39.0	Jun 05, 2002	Jun 07, 2002	446.5	18.60	1,555.0	1,555.0
PRODUCTION TEST	78.0	Jun 11, 2002	Jun 14, 2002	524.5	21.85	1,555.0	1,555.0
SUSPENSION	108.5	Jun 14, 2002	Jun 18, 2002	633.0	26.38	1,555.0	1,555.0
RIG-DOWN/MOVE OUT	1.5	Jun 16, 2002	Jun 16, 2002	634.5	26.44	1,555.0	1,555.0

WBM Data COST TODAY : CUM. WB MUD COST: $281,065 CUM. WBM+OBM COST: $281,065

Type :	VISCOCITY (sec/qt) :	API FLUID LOSS (cm3/30min) :	Cl :	SOLIDS (%vol) :
	PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
FROM :	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
TIME :	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
WEIGHT (sg) :			PM :	PH :
TEMP (C) :	Fann 3/6/100 :		PF :	PHPA (ppb) :

DATE Jun 18, 2002

DAILY DRILLING REPORT # 27

BALEEN # 3

VIC/L21

Bit Data for Bit # **IADC #**

Wear	I	O1	D	L	B	G	O2	R

SIZE (") :

MANUFACTURER :

TYPE :

SERIAL # :

DEPTH IN (m RT) :

DEPTH OUT (m RT) :

AVE WOB (k-lbs) :

AVE RPM :

FLOW (gpm) :

PUMP PRESS. (psi):

HSI (hp/sqi) :

NOZZLES	Drilled over the last 24 hrs		Calculated over the bit run	
x	METERAGE (m) :	0	CUM.METERAGE (m)	0
x	ON BOTTOM HRS :	.0	CUM. ON BOT. HRS :	.0
x	IADC DRILL. HRS :	.0	CUM.IADC DRILL HRS:	.0
x	TOTAL REVS :	0	CUM.TOT. REVS :	0
x	ROP (m/hr):		ROP (m/hr):	

BHA # . **Length (ft) :**

WT BLW JAR(k-lbs):

BHA WT(k-lbs) :

STRING WT(k-lbs) :

PICK UP WT(k-lbs) :

SLK 0FF WT(k-lbs) :

TRQE MAX (ft-lbs):

TRQE ON (ft-lbs):

TRQE OFF (ft-lbs):

D.C. (1) ANN. VELOCITY (mpm): 0

D.C. (2) ANN VELOCITY (mpm): 0

H.W.D.P. ANN VELOCITY (mpm): 0

D.P. ANN VELOCITY (mpm) : 0

BHA DESCRIPTION :

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
1,460	712	85.35	232.	232.0	332.8	3.99	-181.6	-279.1	
1,489	714	89.87	231.	231.9	361.6	4.68	-199.4	-301.9	
1,517	713	93.80	232.	232.1	389.8	4.16	-216.9	-324.2	
1,546	710	95.32	232.	232.2	418.7	1.57	-234.7	-347.2	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	436			436
Bentonite	SX	1662			1662
G-neat	SX	1449			1449
G+35% SiFl	SX	0			0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	24	24	98
Drill Water	M3	444	8		436
Heli-fuel	ltr	2677	424		2253
Base Oil	M3				0
Rig Fuel	M3	388	10		378
Brine	M3				0

Pump Data

	Pump Data - last 24 hrs						Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00		97						
2	National	6.00		97						
3	National	6.00		97						

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	866.1 866.1	680.0 680.0		1.41 1.41	Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Displaced with 190 bbls, Bumped plug and pressure tested casing to 3,000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
9 5/8" Well head	2.33	8.750	47.0	L-80	New Vam
X / O Joint (NK3SB pin X N-VAM box)	3.17	8.750	47.0	L-80	N-Vam x NK
58 Joints 9 5/8" Casing	746.36	8.750	47.0	L-80	NK 3SB
Float joint	13.05	8.750	47.0	L-80	N-Vam x NK
Intermediate Joint	12.03	8.750	47.0	L-80	New Vam
Shoe Joint	12.50	8.750	47.0	L-80	New Vam

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DATE Jun 18, 2002

DAILY DRILLING REPORT # 27

BALEEN # 3

VIC/L21

Personnel : on Site =96

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	6
Drilling Supervisor	J. Kenrick	Service Company	29
Sub Sea Engineer	W. Bates	Diamond Offshore	53
Drilling Engineer	P. Zehepleitner	Catering	8
Geologist	P. Boothby		
Geologist	R. Tolliday		

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER G. Garrick/S. Andrews

SHAKER 1	4 x120
SHAKER 2	4 x 120
SHAKER 3	4 x 120
SHAKER 4	4 x 145
SHAKER 5	

VOLUME AVAILABLE (bbl) = 0

ACTIVE	MIXING
HOLE	SLUG
RESERVE	HEAVY

LOSSES (bbl) = 0

DOWNHOLE	
SURF. + EQUIP	0.00
DUMPED	

COMMENTS

Anchors

A 1	290	A 2	230	A 3	180	A 4	230	A 5	170
A 6	150	A7	260	A8	280				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	Standb	401	0	640	152	1188	838	39.74
Pacific Sentinel	Standb	141	1190	393	60			87.44

Weather

VISIBILITY(nm)	10
WIND SP. (kts)	20.0
WIND DIR (deg)	150
PRES.(mbars)	1026
AIR TEMP (C)	12.0

Rig / Sea Data

RIS.TENS (klbs)	0
VDL (mt)	1,863
WAVES (m)	0.9
SWELL (m)	3.0

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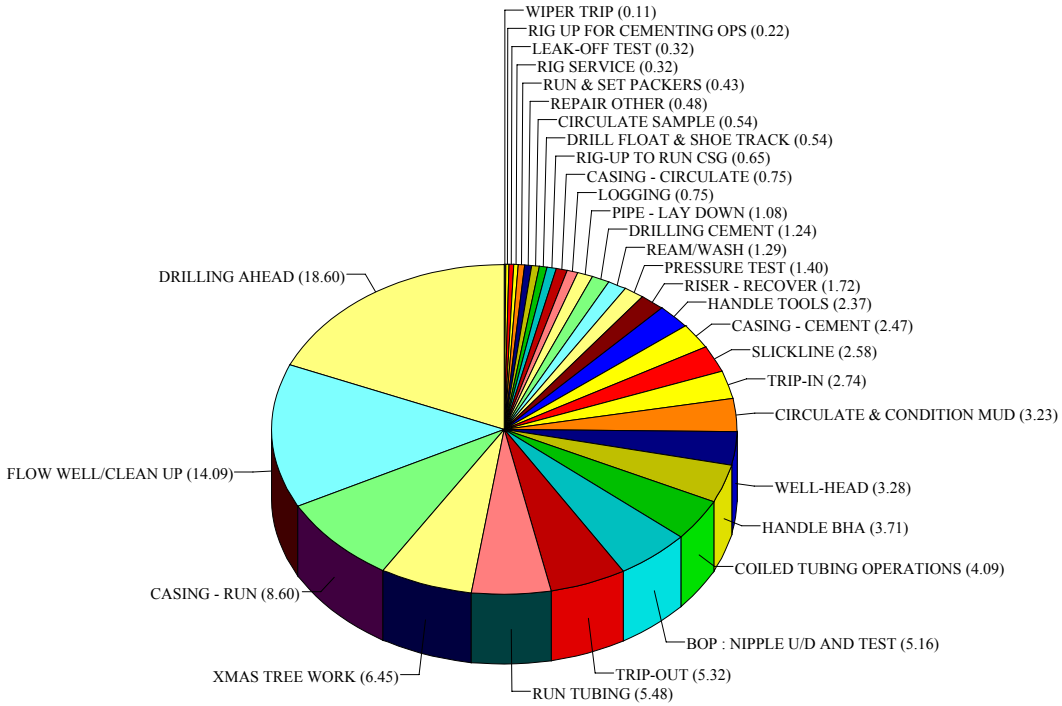
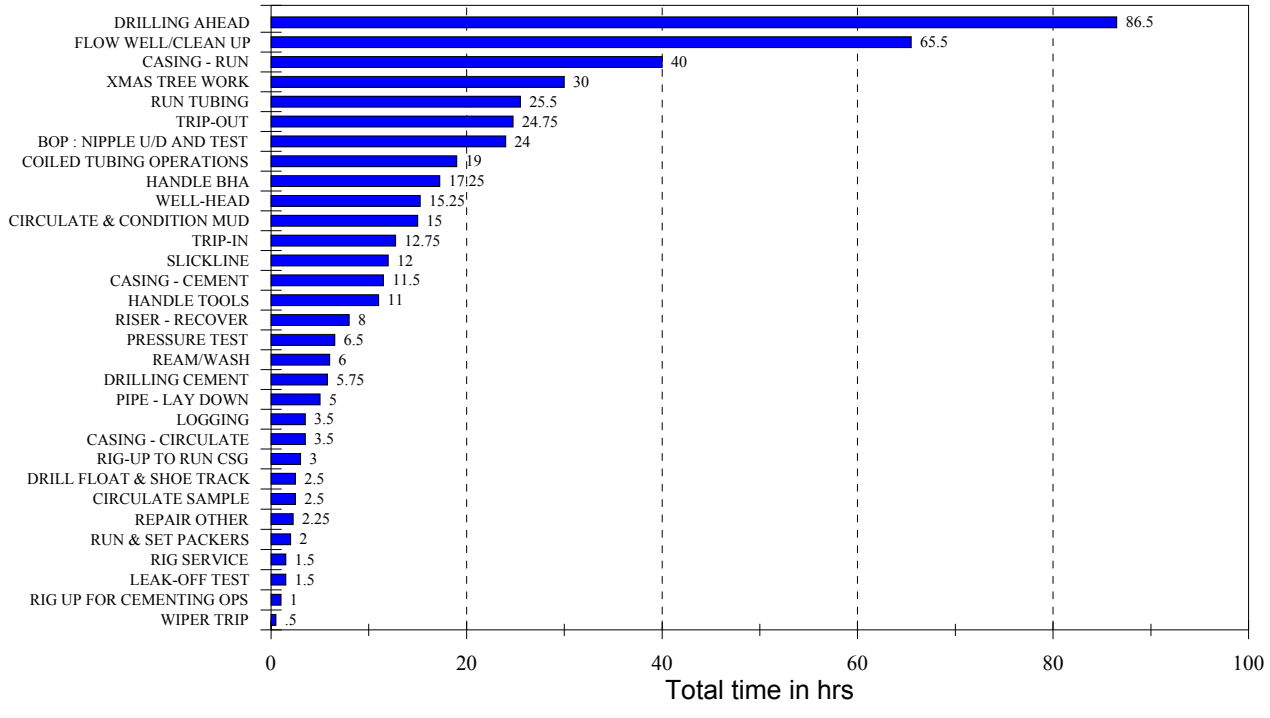
Total move time (hrs)	24.00	Total prod. time since spud (hrs) :	465.00
Total time on well excluding move (hrs)	610.50	Total troub. time since spud (hrs)	145.50
		% Trouble time	23.83

Productive Time by Op.



Productive time by Operation



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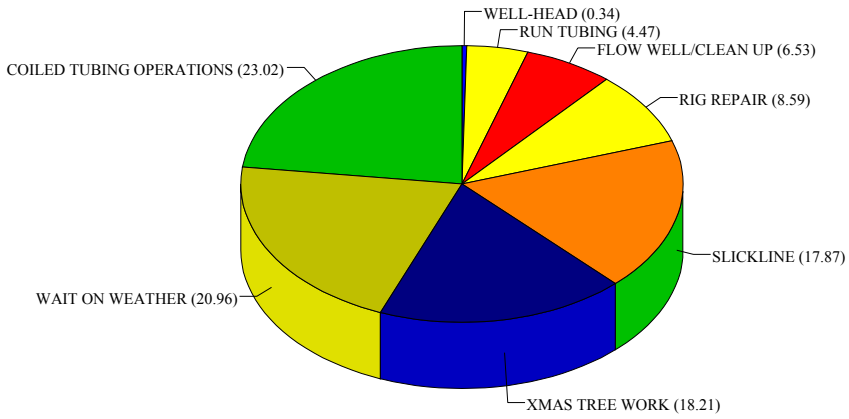
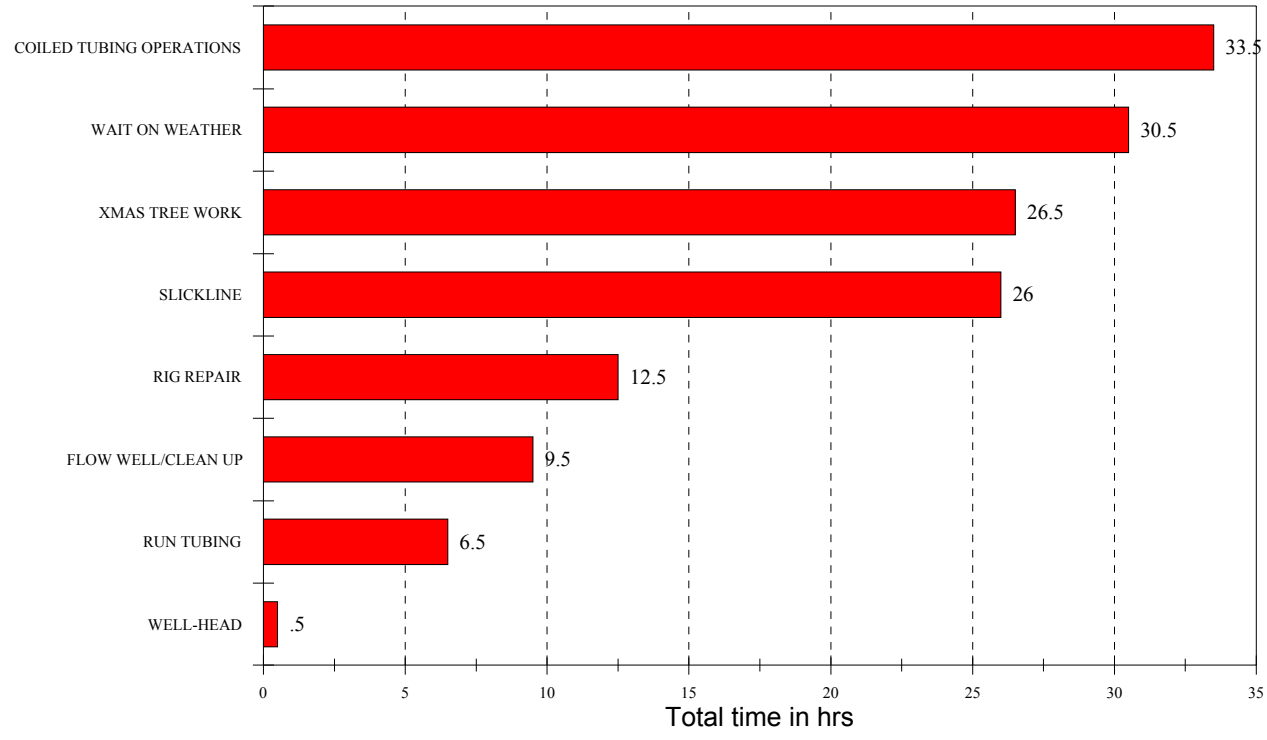
Trouble Time by Op.



NPT by Operation



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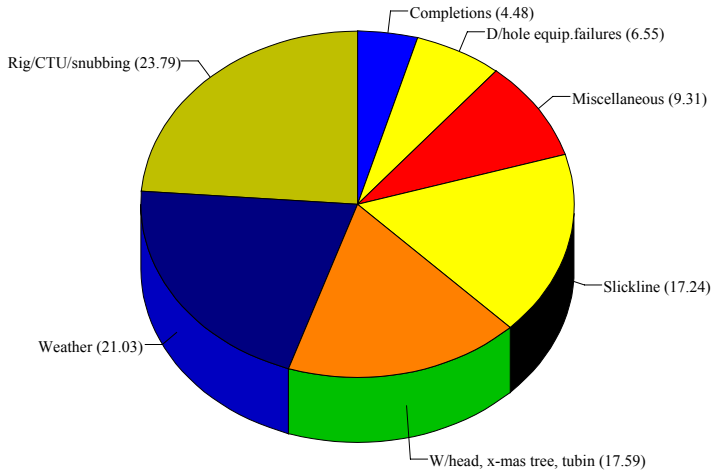
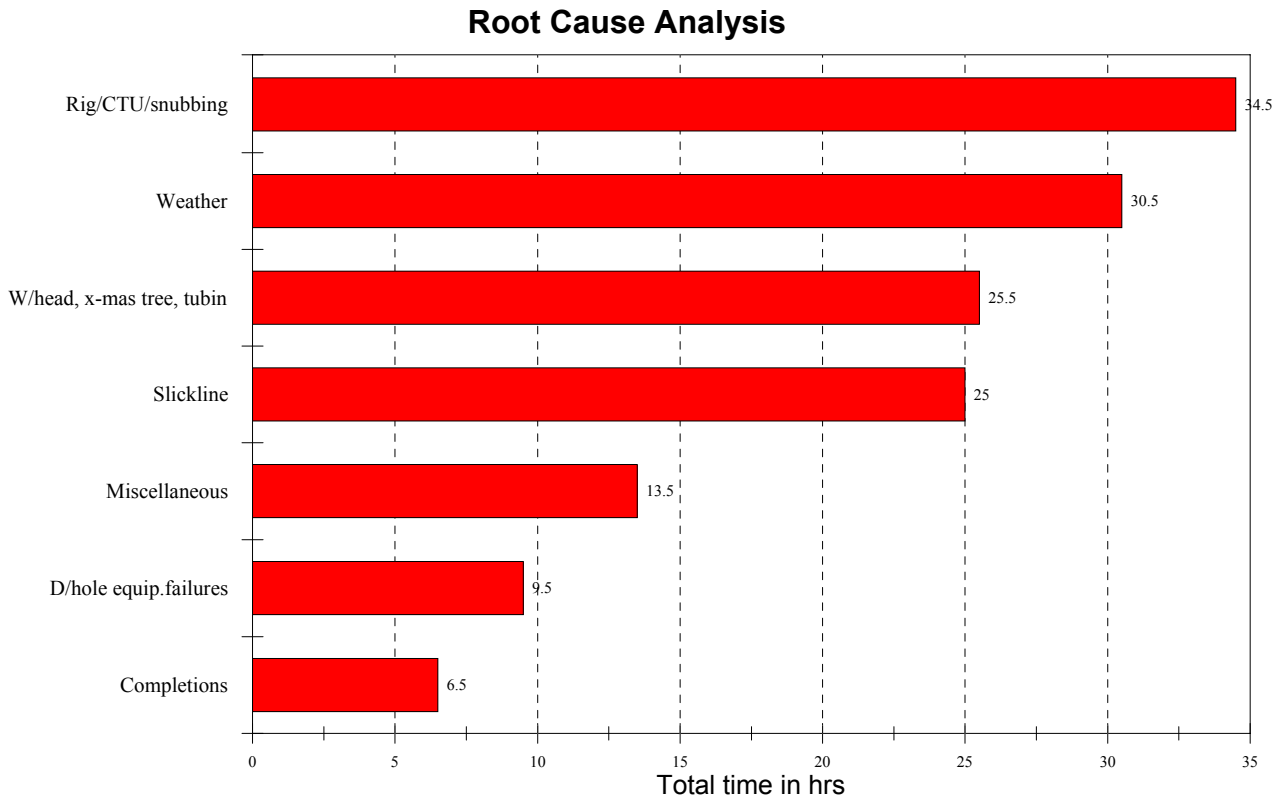
Root Cause Analysis





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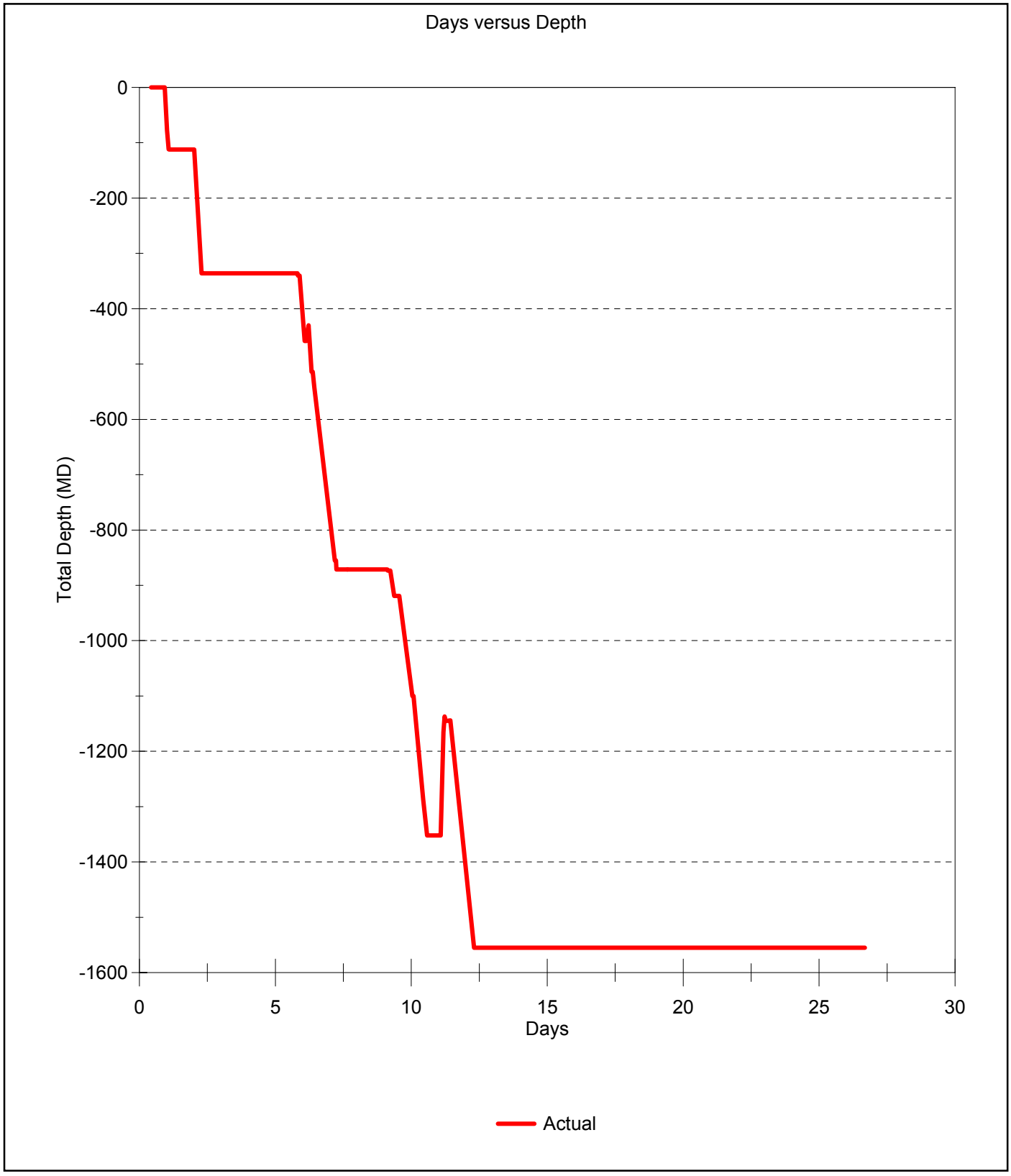
DEPTH @ 24:00 = 1,555.0m after 26.46 days since spud



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OMV

DAILY DRILLING REPORT # 28

DATE Jun 19, 2002

FROM : G. Howard / J. Kenrick
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA
FIELD	GIPPSLAND SUB-BASIN
DRILL CO.	DIAMOND OFFSHORE
RIG	OCEAN BOUNTY
RT ABOVE SL (m)	25.0
WATER DEPTH (m) LAT	52.5
RT TO SEABED (m)	77.5

DEPTH (mBRT)	1,555.0	CUR. HOLE SIZE (")		AFE COST $	11,852,851
TVD (mBRT)	710.4	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
PROGRESS (m)		SHOE TVD (mBRT)	680	DAILY COST :	$318,194.00
DAYS ON WELL	27.46	FIT (sg)	1.41	CUM COST :	14,018,226.00
DAYS +/- CURVE	4.46	LOT (sg)	0.00		

CURRENT OP @ 0600 Run anchors on Patricia-2 location.

PLANNED OP. Run & pretension anchors. Position rig over intended surface location & spud Patricia-2.

Summary of period 0000 to 2400 hrs

Pulled anchors 8,4,1,5 & 2. Carried out repairs on ROV. Jumped ROV & set plug protectors in subsea control module plugs A & B. Recovered ROV. Pulled anchors 3 & 7. Rig heaved in on anchor chain 6.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 19, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SUS	P		WH	00:00	03:00	3.00	1,555	Sea conditions moderating & visibility 1.0m. Pulled electrical jumper & hung off deployment frame. Pulled hydraulic umbilical & stabbed on deployment frame.
SUS	P		WH	03:00	03:30	.50	1,555	Recovered deployment frame to surface. Recovered ROV & replaced dogs on bucket tool. Reclamped camera on schilling arm.
SUS	P		WH	03:30	05:00	1.50	1,555	Jumped ROV & pulled pin on guide post. Recovered guide posts to surface. Set blank in subsea control module. Attempted to set blank in electrical module A with no success. Dropped blank on seabed. Recovered ROV.
RMO	P		AH	05:00	12:00	7.00	1,555	Positioned vessels & pulled anchors. Anchor-8 off bottom at 05:12hrs, pennant passed to rig at 06:30hrs. Anchor-4 off bottom at 05:14hrs, pennant passed to rig at 06:40hrs. Anchor-1 off bottom at 07:00hrs, pennant passed to rig at 08:04hrs. anchor-5 off bottom at 07:18hrs, pennant passed to rig at 08:25hrs. Anchor-2 pennant passed to boat at 08:25hrs, Pacific Conqueror reported shackle off pennant at 09:40hrs. Chased with J-hook & recovered anchor to deck at 10:32hrs. Pennant passed to rig at 11:56hrs. Passed main tow bridle to Pacific Sentinel.
SUS	TP	MSC	WH	12:00	17:00	5.00	1,555	Positioned rig over Baleen-3 wellhead. Identified & rectified electrical fault with ROV cameras.
SUS	P		WH	17:00	19:30	2.50	1,555	Jumped ROV. Installed plug protectors in subsea control module plugs A & B. Attempted to set plug protector in corrosion plug. After inspection with ROV it appeared that corrosion plug had been pushed back into wellhead frame making installation with ROV not possible. Recovered ROV.
RMO	P		AH	19:30	24:00	4.50	1,555	Position vessel & pulled anchors. Anchor-3 off bottom at 20:32hrs, pennant passed to rig at 21:55hrs. Anchor-7 off bottom at 22:43hrs, pennant passed to rig at 23:22hrs. Rig heaving in on anchor-6 chain at 23:07

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 20, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
RMO	P		AH	00:00	00:30	.50	1,555	Rig heaved in on anchor-6 chain. Anchor-6 off bottom at 00:30 on 20th June 2002. Rig under tow off Baleen-3 location.
				00:30	24:00	23.50	1,555	Refer to Report No 1, Patricia-2. (1st anchor down at Patricia @ 03:40 hrs)

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	131.0	May 26, 2002	Jun 14, 2002	237.8	9.91	336.0	1,555.0
INTERMEDIATE HOLE (1)	54.3	May 29, 2002	Jun 01, 2002	292.0	12.17	340.0	871.0
INTERMEDIATE CASING (1)	25.0	May 31, 2002	Jun 01, 2002	317.0	13.21	871.0	871.0
PRODUCTION HOLE (1)	61.0	Jun 01, 2002	Jun 05, 2002	378.0	15.75	873.0	1,555.0

DATE Jun 19, 2002

DAILY DRILLING REPORT # 28

BALEEN # 3

VIC/L21

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
SIDETRACKING	29.5	Jun 03, 2002	Jun 04, 2002	407.5	16.98	1,137.0	1,555.0
PRODUCTION CSG/LNR(1)	39.0	Jun 05, 2002	Jun 07, 2002	446.5	18.60	1,555.0	1,555.0
PRODUCTION TEST	78.0	Jun 11, 2002	Jun 14, 2002	524.5	21.85	1,555.0	1,555.0
SUSPENSION	121.0	Jun 14, 2002	Jun 19, 2002	645.5	26.90	1,555.0	1,555.0
RIG-DOWN/MOVE OUT	13.0	Jun 16, 2002	Jun 19, 2002	658.5	27.44	1,555.0	1,555.0

WBM Data COST TODAY : CUM. WB MUD COST: $281,065 CUM. WBM+OBM COST: $281,065

Type :	VISCOCITY (sec/qt) :	API FLUID LOSS (cm3/30min) :	Cl :	SOLIDS (%vol) :
	PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
FROM :	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
TIME :	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
WEIGHT (sg) :			PM :	PH :
TEMP (C) :	Fann 3/6/100 :		PF :	PHPA (ppb) :

Bit Data for Bit # **IADC #**

SIZE (") :

Wear	I	O1	D	L	B	G	O2	R

MANUFACTURER :
TYPE :
SERIAL # :
DEPTH IN (m RT) :
DEPTH OUT (m RT) :

AVE WOB (k-lbs) :
AVE RPM :
FLOW (gpm) :
PUMP PRESS. (psi):
HSI (hp/sqi) :

NOZZLES
x
x
x
x
x

Drilled over the last 24 hrs		Calculated over the bit run	
METERAGE (m) :	0	CUM.METERAGE (m)	0
ON BOTTOM HRS :	.0	CUM. ON BOT. HRS :	.0
IADC DRILL. HRS :	.0	CUM.IADC DRILL HRS:	.0
TOTAL REVS :	0	CUM.TOT. REVS :	0
ROP (m/hr):		ROP (m/hr):	

BHA # . Length (ft) :

WT BLW JAR(k-lbs):
BHA WT(k-lbs) :

STRING WT(k-lbs) :
PICK UP WT(k-lbs) :
SLK 0FF WT(k-lbs) :

TRQE MAX (ft-lbs):
TRQE ON (ft-lbs):
TRQE OFF (ft-lbs):

D.C. (1) ANN. VELOCITY (mpm): 0
D.C. (2) ANN VELOCITY (mpm): 0
H.W.D.P. ANN VELOCITY (mpm): 0
D.P. ANN VELOCITY (mpm) : 0

BHA DESCRIPTION :

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

Survey

Last Tool Type :
Magnetic Declination : 0.00
Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
1,460	712	85.35	232.	232.0	332.8	3.99	-181.6	-279.1	
1,489	714	89.87	231.	231.9	361.6	4.68	-199.4	-301.9	
1,517	713	93.80	232.	232.1	389.8	4.16	-216.9	-324.2	
1,546	710	95.32	232.	232.2	418.7	1.57	-234.7	-347.2	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	436			436
Bentonite	SX	1662			1662
G-neat	SX	1449			1449
G+35% SiFl	SX	0			0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98	26	26	98
Drill Water	M3	436			436
Heli-fuel	ltr	2253	408		1845
Base Oil	M3				0
Rig Fuel	M3	378	8		370
Brine	M3				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00		97						
2	National	6.00		97						
3	National	6.00		97						

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DATE Jun 19, 2002

DAILY DRILLING REPORT # 28

BALEEN # 3

VIC/L21

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	866.1 866.1	680.0 680.0		1.41 1.41	Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Displaced with 190 bbls, Bumped plug and pressure tested casing to 3,000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
9 5/8" Well head	2.33	8.750	47.0	L-80	New Vam
X / O Joint (NK3SB pin X N-VAM box)	3.17	8.750	47.0	L-80	N-Vam x NK
58 Joints 9 5/8" Casing	746.36	8.750	47.0	L-80	NK 3SB
Float joint	13.05	8.750	47.0	L-80	N-Vam x NK
Intermediate Joint	12.03	8.750	47.0	L-80	New Vam
Shoe Joint	12.50	8.750	47.0	L-80	New Vam

Personnel : on Site =95

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	6
Drilling Supervisor	J. Kenrick	Service Company	29
Sub Sea Engineer	W. Bates	Diamond Offshore	52
Drilling Engineer	P. Zehepleitner	Catering	8
Geologist	P. Boothby		
Geologist	R. Tolliday		

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER G. Garrick/S. Andrews

SHAKER 1	4 x120	**VOLUME AVAILABLE (bbl) =**	**0**	**LOSSES (bbl) =**	**0**	**COMMENTS**
SHAKER 2	4 x 120	ACTIVE	MIXING	DOWNHOLE		
SHAKER 3	4 x 120	HOLE	SLUG	SURF. + EQUIP	0.00	
SHAKER 4	4 x 145	RESERVE	HEAVY	DUMPED		
SHAKER 5						

Anchors

A 1	0	A 2	0	A 3	0	A 4	0	A 5	0
A 6	150	A7	0	A8	0				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	Standb	392	0	640	147	1188	838	39.74
Pacific Sentinel	Standb	123	1190	393	58			87.44

Weather

VISIBILITY(nm)	10
WIND SP. (kts)	8.0
WIND DIR (deg)	020
PRES.(mbars)	1020
AIR TEMP (C)	12.0

Rig / Sea Data

RIS.TENS (klbs)	0
VDL (mt)	1,839
WAVES (m)	0.3
SWELL (m)	0.9

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OMV

DAILY DRILLING REPORT # 29

DATE Jun 20, 2002

FROM : G. Howard / J. Kenrick
TO : C. Allport / S. Crocker

BALEEN # 3

VIC/L21

Well Data

COUNTRY	AUSTRALIA	DEPTH (mBRT)	1,555.0	CUR. HOLE SIZE (")		AFE COST $	11,852,851
FIELD	GIPPSLAND SUB-BASIN	TVD (mBRT)	710.4	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
DRILL CO.	DIAMOND OFFSHORE	PROGRESS (m)		SHOE TVD (mBRT)	680	DAILY COST :	$0.00
RIG	OCEAN BOUNTY	DAYS ON WELL	28.46	FIT (sg)	1.41	CUM COST :	14,018,226.00
		DAYS +/- CURVE	4.46	LOT (sg)	0.00		
RT ABOVE SL (m)	25.0	CURRENT OP @ 0600					
WATER DEPTH (m) LAT	52.5						
RT TO SEABED (m)	77.5	PLANNED OP.					

Summary of period 0000 to 2400 hrs

Rig moved to Particia-2 location.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 20, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
RMO	P		AH	00:00	00:30	.50	1,555	Rig heaved in on anchor-6 chain. Anchor-6 off bottom at 00:30 on 20th June 2002. Rig under tow off Baleen-3 location.
				00:30	24:00	23.50	1,555	Refer to Report No 1, Patricia-2.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	22.5	May 23, 2002	May 24, 2002	22.5	0.94	0.0	0.0
CONDUCTOR HOLE	6.0	May 24, 2002	May 24, 2002	28.5	1.19	77.5	112.0
CONDUCTORS	12.5	May 24, 2002	May 25, 2002	41.0	1.71	112.0	112.0
SURFACE HOLE	17.0	May 25, 2002	May 25, 2002	58.0	2.42	112.0	336.0
SURFACE CASING	48.8	May 25, 2002	May 29, 2002	106.8	4.45	336.0	336.0
COMPLETION/TIE-BACK	131.0	May 26, 2002	Jun 14, 2002	237.8	9.91	336.0	1,555.0
INTERMEDIATE HOLE (1)	54.3	May 29, 2002	Jun 01, 2002	292.0	12.17	340.0	871.0
INTERMEDIATE CASING (1)	25.0	May 31, 2002	Jun 01, 2002	317.0	13.21	871.0	871.0
PRODUCTION HOLE (1)	61.0	Jun 01, 2002	Jun 05, 2002	378.0	15.75	873.0	1,555.0
SIDETRACKING	29.5	Jun 03, 2002	Jun 04, 2002	407.5	16.98	1,137.0	1,555.0
PRODUCTION CSG/LNR(1)	39.0	Jun 05, 2002	Jun 07, 2002	446.5	18.60	1,555.0	1,555.0
PRODUCTION TEST	78.0	Jun 11, 2002	Jun 14, 2002	524.5	21.85	1,555.0	1,555.0
SUSPENSION	121.0	Jun 14, 2002	Jun 19, 2002	645.5	26.90	1,555.0	1,555.0
RIG-DOWN/MOVE OUT	13.5	Jun 16, 2002	Jun 20, 2002	659.0	27.46	1,555.0	1,555.0
BALEEN # 3	23.5	Jun 20, 2002	Jun 20, 2002	682.5	28.44	1,555.0	1,555.0

WBM Data COST TODAY : CUM. WB MUD COST: $281,065 CUM. WBM+OBM COST: $281,065

Type :	VISCOCITY (sec/qt) :	API FLUID LOSS (cm3/30min) :	Cl :	SOLIDS (%vol) :
	PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
FROM :	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
TIME :	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
WEIGHT (sg) :	Fann 3/6/100 :		PM :	PH :
TEMP (C) :			PF :	PHPA (ppb) :

Bit Data for Bit # **IADC #**

Wear	I	O1	D	L	B	G	O2	R	

SIZE (") :

MANUFACTURER :	AVE WOB (k-lbs) :	**NOZZLES**	
TYPE :	AVE RPM :	X	
SERIAL # :	FLOW (gpm) :	X	
DEPTH IN (m RT) :	PUMP PRESS. (psi):	X	
DEPTH OUT (m RT) :	HSI (hp/sqi) :	X	

Drilled over the last 24 hrs		Calculated over the bit run	
METERAGE (m) :	0	CUM.METERAGE (m)	0
ON BOTTOM HRS :	.0	CUM. ON BOT. HRS :	.0
IADC DRILL. HRS :	.0	CUM.IADC DRILL HRS:	.0
TOTAL REVS :	0	CUM.TOT. REVS :	0
ROP (m/hr):		ROP (m/hr):	

DATE Jun 20, 2002

DAILY DRILLING REPORT # 29

BALEEN # 3

VIC/L21

BHA # . Length (ft) :

WT BLW JAR(k-lbs):	STRING WT(k-lbs) :	TRQE MAX (ft-lbs):	D.C. (1) ANN. VELOCITY (mpm): 0
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	TRQE ON (ft-lbs):	D.C. (2) ANN VELOCITY (mpm): 0
	SLK 0FF WT(k-lbs) :	TRQE OFF (ft-lbs):	H.W.D.P. ANN VELOCITY (mpm): 0
			D.P. ANN VELOCITY (mpm) : 0

BHA DESCRIPTION :

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

Survey

Last Tool Type :

Magnetic Declination : 0.00

Survey method : Min Curvature

MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/ 30m)	N/S (m)	E/W (m)	TOOL TYPE
1,460	712	85.35	232.	232.0	332.8	3.99	-181.6	-279.1	
1,489	714	89.87	231.	231.9	361.6	4.68	-199.4	-301.9	
1,517	713	93.80	232.	232.1	389.8	4.16	-216.9	-324.2	
1,546	710	95.32	232.	232.2	418.7	1.57	-234.7	-347.2	

Bulk Stocks On Rig

STOCK TYPE		START	USED	REC'D	STOCK
Barite	SX	436			436
Bentonite	SX	1662			1662
G-neat	SX	1449			1449
G+35% SiFl	SX	0			0
G+BFS+12.25% SiFl	SX				0
Pot Water	M3	98			98
Drill Water	M3	436			436
Heli-fuel	ltr	1845			1845
Base Oil	M3				0
Rig Fuel	M3	370			370
Brine	M3				0

Pump Data

Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National	6.00		97						
2	National	6.00		97						
3	National	6.00		97						

Casing

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	866.1 866.1	680.0 680.0		1.41 1.41	Mixed and pumped 408 sx 'G' grade cement, 84 bbls of cement slurry @ 1.89 SG. Displaced with 190 bbls, Bumped plug and pressure tested casing to 3,000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
9 5/8" Well head	2.33	8.750	47.0	L-80	New Vam
X / O Joint (NK3SB pin X N-VAM box)	3.17	8.750	47.0	L-80	N-Vam x NK
58 Joints 9 5/8" Casing	746.36	8.750	47.0	L-80	NK 3SB
Float joint	13.05	8.750	47.0	L-80	N-Vam x NK
Intermediate Joint	12.03	8.750	47.0	L-80	New Vam
Shoe Joint	12.50	8.750	47.0	L-80	New Vam

Personnel : on Site =95

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	6
Drilling Supervisor	J. Kenrick	Service Company	29
Sub Sea Engineer	W. Bates	Diamond Offshore	52
Drilling Engineer	P. Zehepleitner	Catering	8
Geologist	P. Boothby		
Geologist	R. Tolliday		

Safety, Inspections and Drills **Summary**

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Shakers, Volumes and Losses Data

ENGINEER G. Garrick/S. Andrews

SHAKER 1	4 x120
SHAKER 2	4 x 120
SHAKER 3	4 x 120
SHAKER 4	4 x 145
SHAKER 5	

VOLUME AVAILABLE (bbl) =	**0**		
ACTIVE		MIXING	
HOLE		SLUG	
RESERVE		HEAVY	

LOSSES (bbl) =	**0**
DOWNHOLE	
SURF. + EQUIP	0.00
DUMPED	

COMMENTS

Anchors

A 1	0	A 2	0	A 3	0	A 4	0	A 5	0
A 6	150	A7	0	A8	0				

Workboats

	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Conqueror	Standb	392	0	640	147	1188	838	39.74
Pacific Sentinel	Standb	123	1190	393	58			87.44

Weather

VISIBILITY(nm)	10
WIND SP. (kts)	8.0
WIND DIR (deg)	020
PRES.(mbars)	1020
AIR TEMP (C)	12.0

Rig / Sea Data

RIS.TENS (klbs)	0
VDL (mt)	1,839
WAVES (m)	0.3
SWELL (m)	0.9

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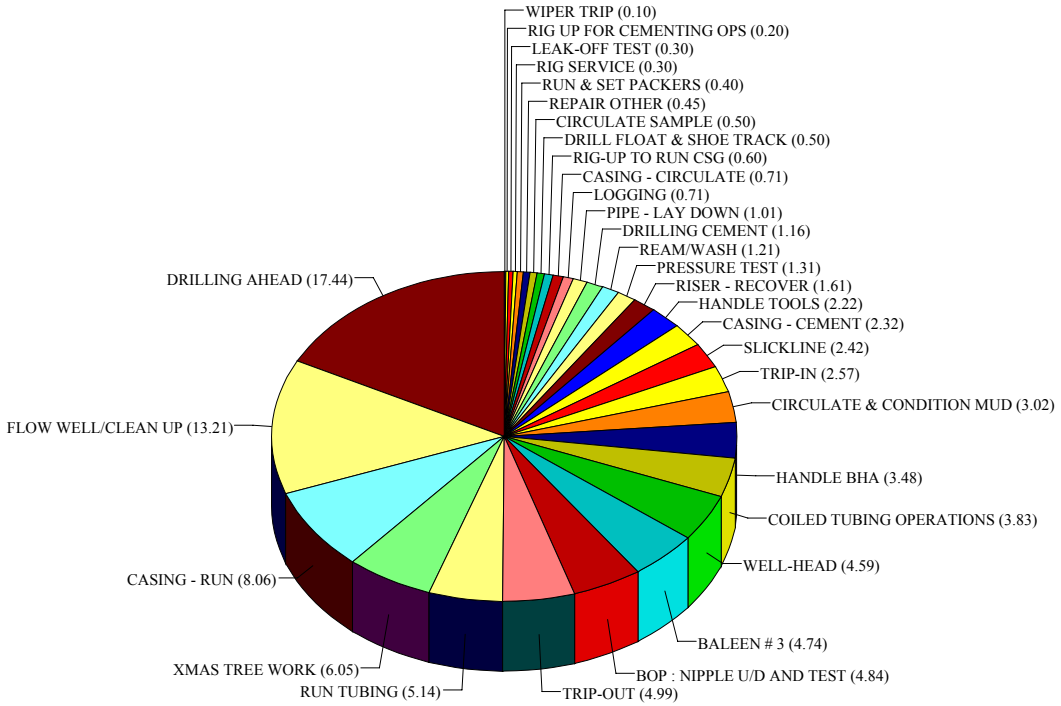
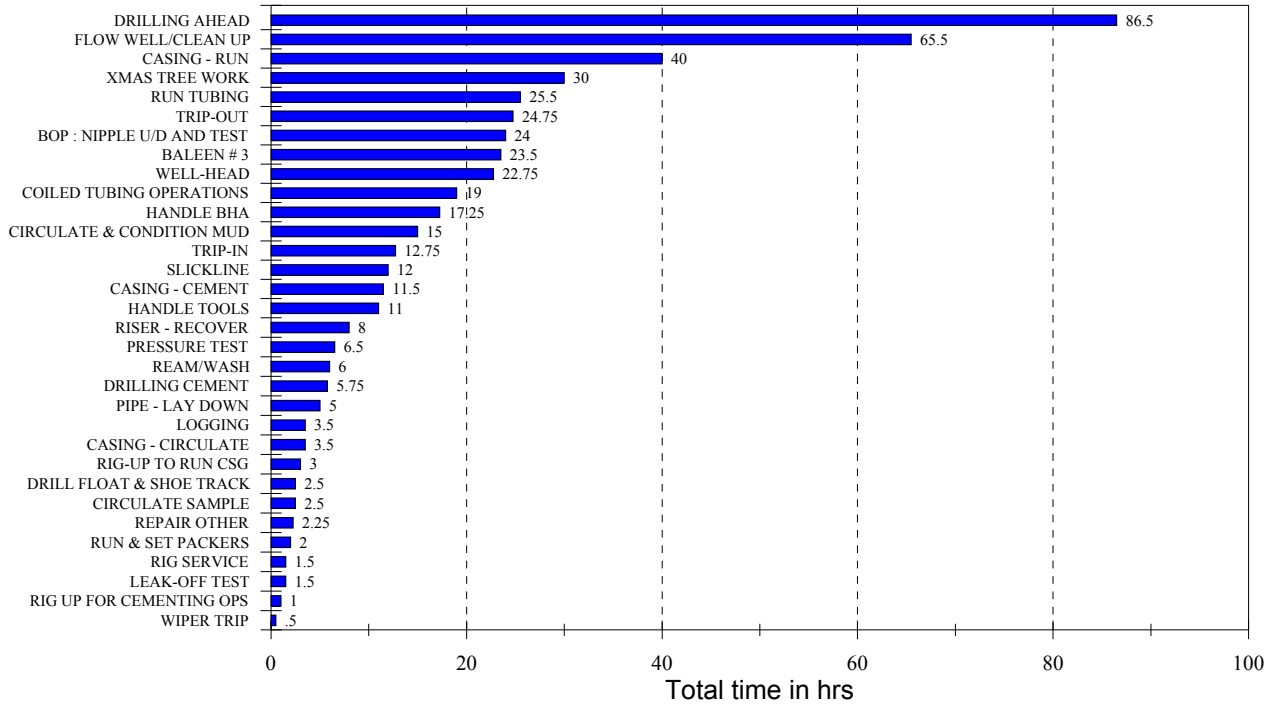
Total move time (hrs)	36.00	Total prod. time since spud (hrs) :	496.00
Total time on well excluding move (hrs)	646.50	Total troub. time since spud (hrs)	150.50
		% Trouble time	23.28

Productive Time by Op.



Productive time by Operation



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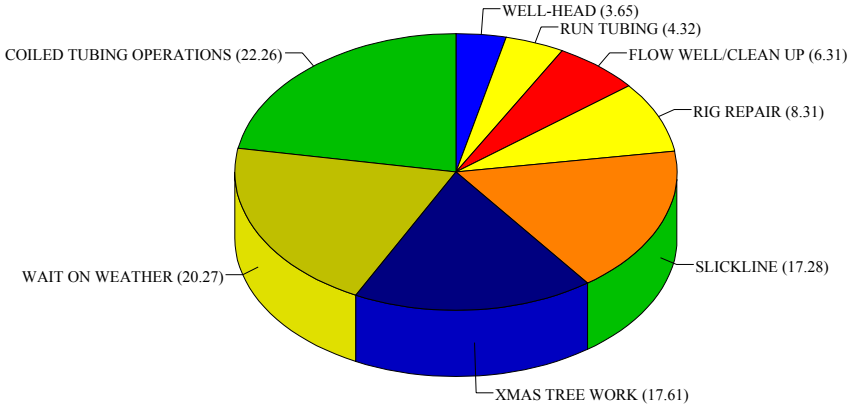
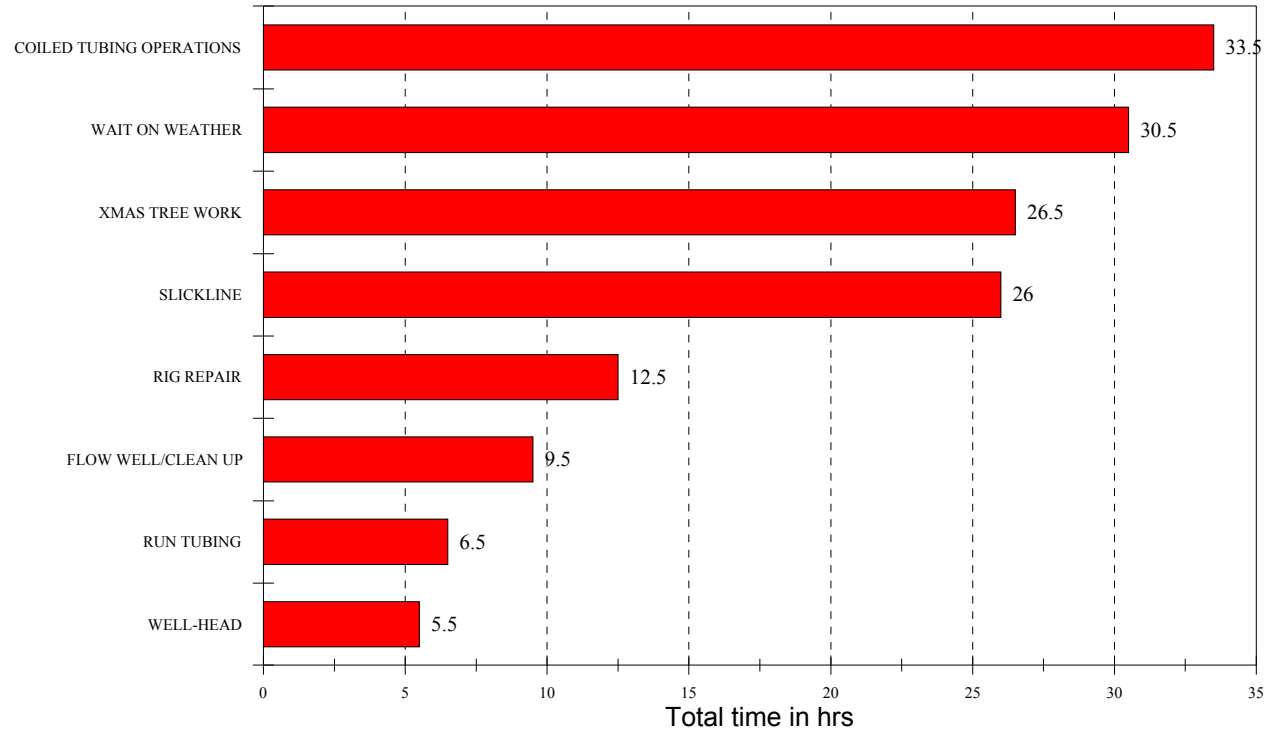
Trouble Time by Op.



NPT by Operation



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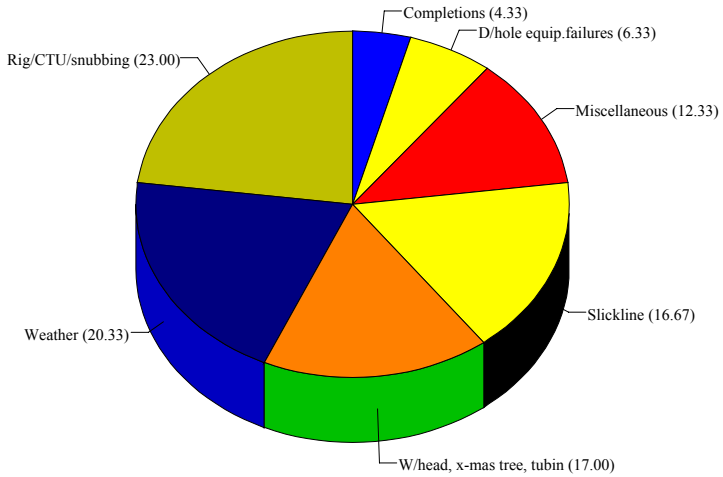
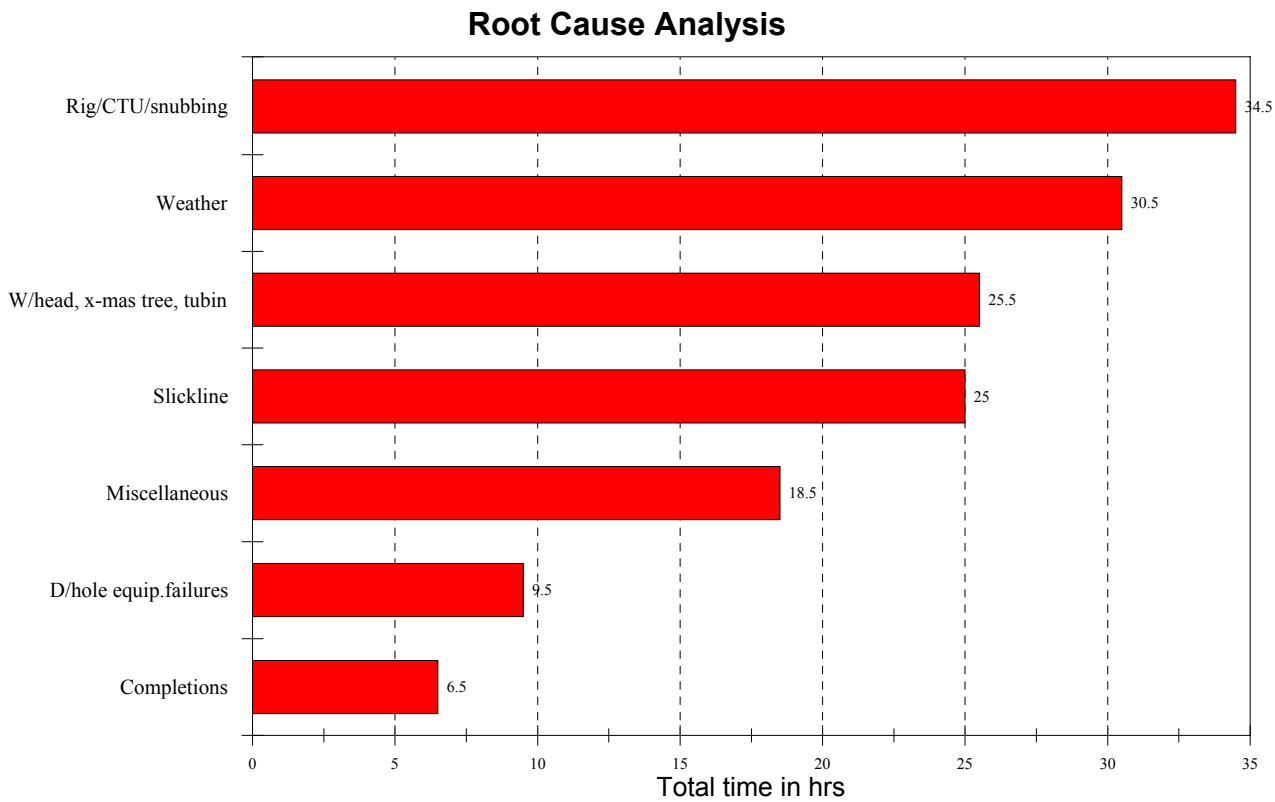
Root Cause Analysis





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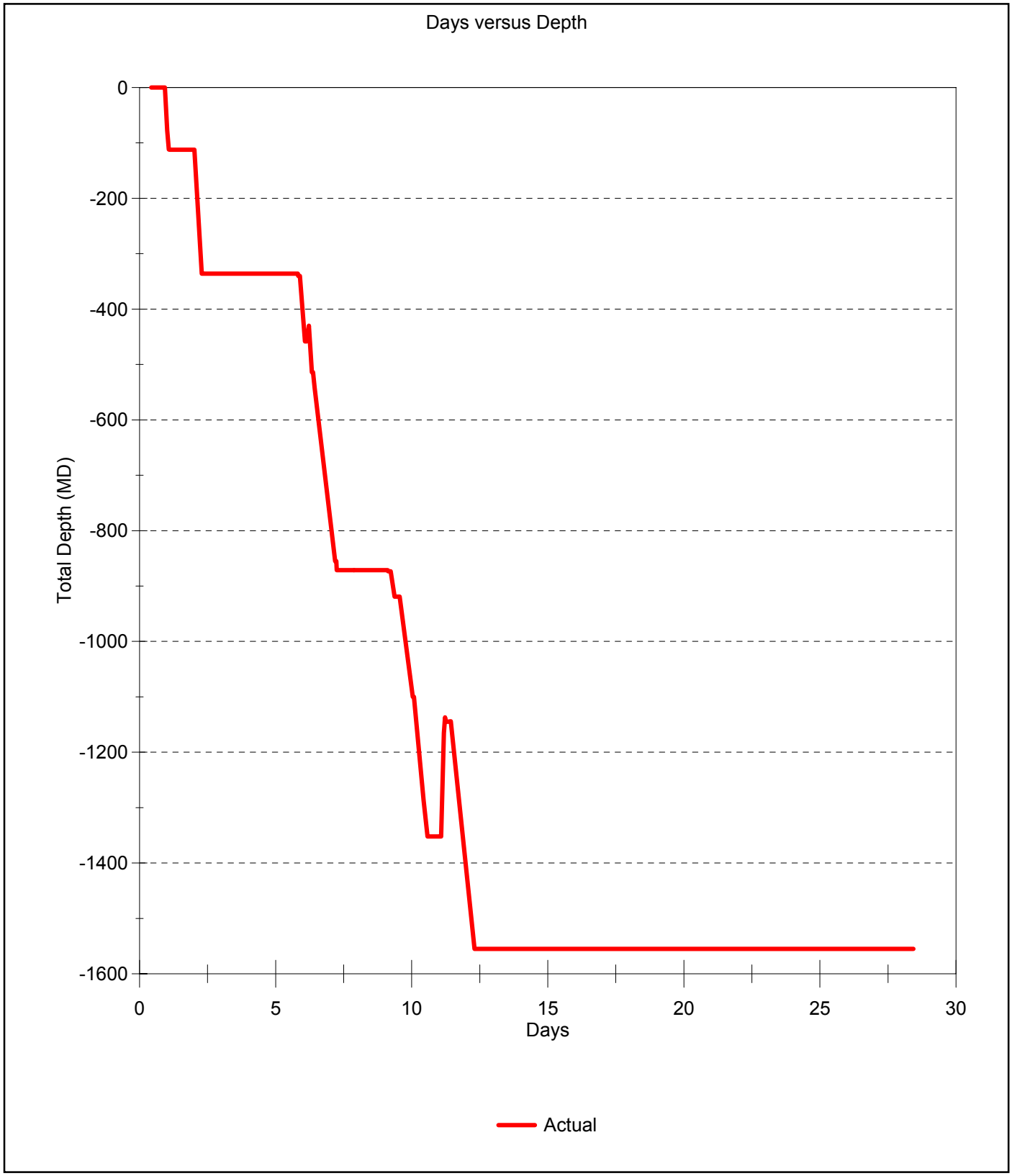
DEPTH @ 24:00 = 1,555.0m after 28.46 days since spud



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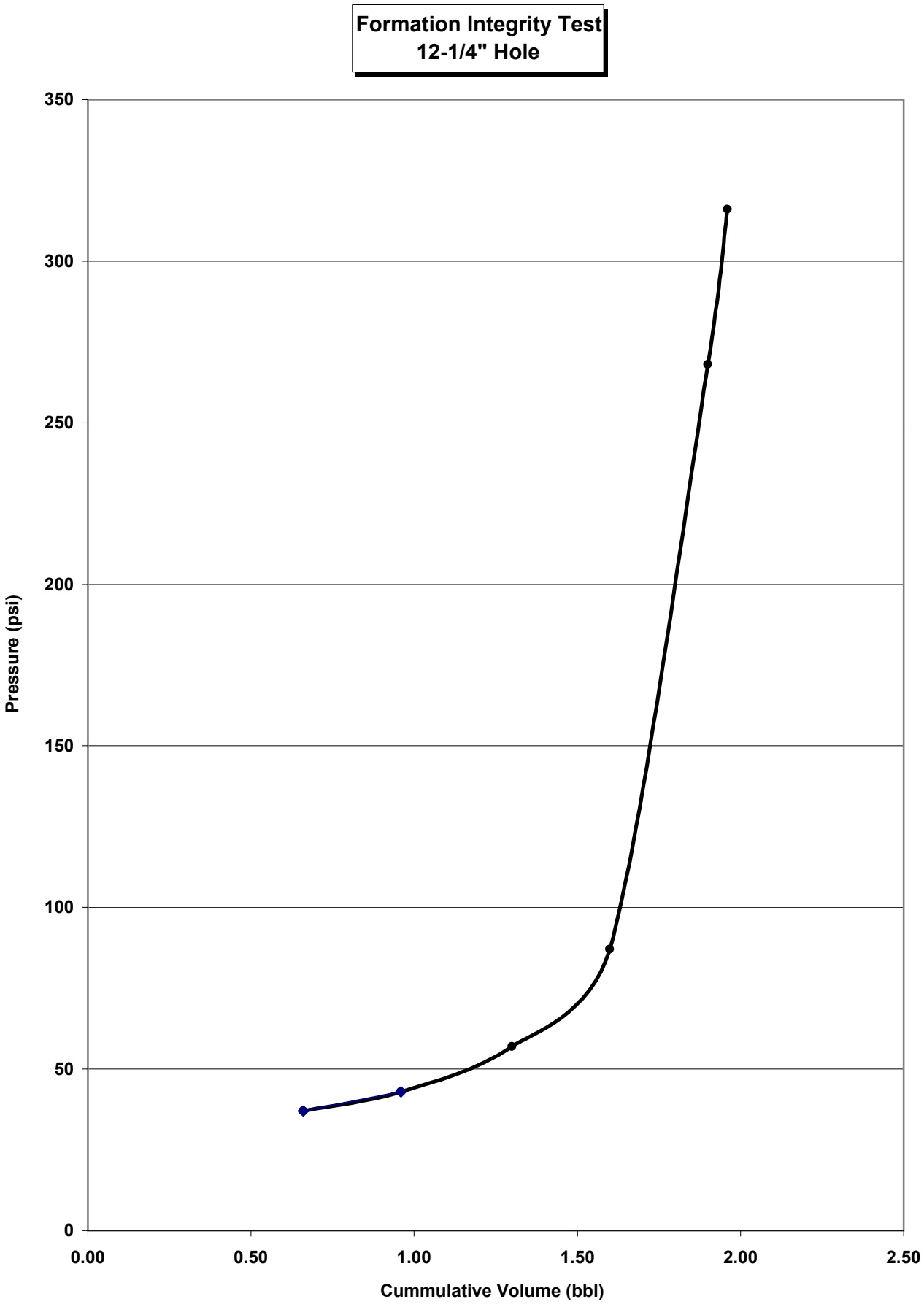
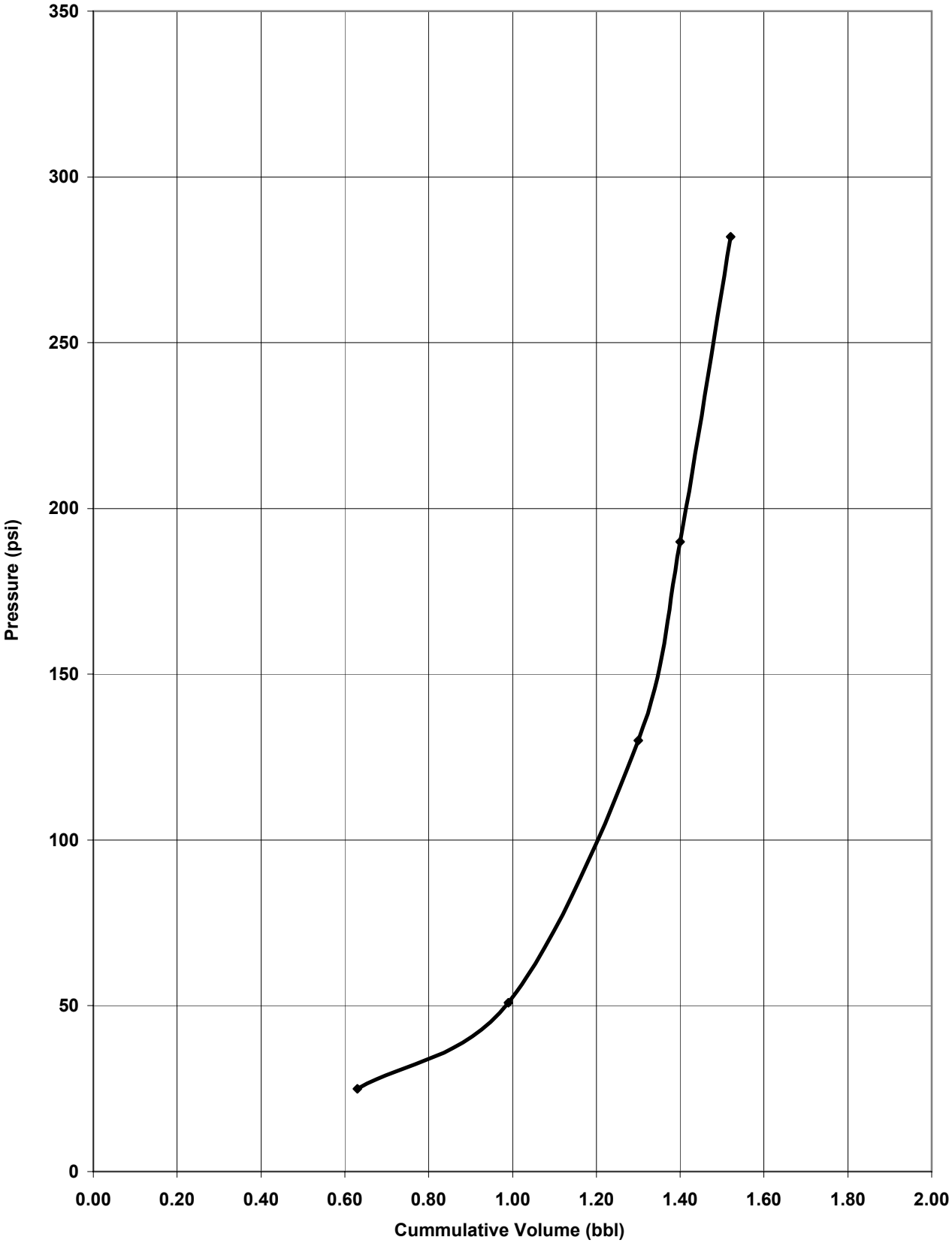

Formation Integrity Test
12-1/4" Hole
Pressure (psi)
350
300
250
200
150
100
50
0
0.00
0.50
1.00
1.50
2.00
2.50
Cummulative Volume (bbl)

Formation Integrity Test
8-1/2" Hole



OMV Australia

Casing, Running and Cementing Report

Baleen 3

183/4"Wellhead x 13 3/8" Casing

OMV Australia Reps	Guy Howard & GavinOthen	**Drilling Contractor & Rig**	Ocean Bounty
OMV Australia Witness		**Cement Company & Service Rep.**	Halliburton
Date 26 May	26-May-2002		

Basic Data		**Mud Data**			**Hole & Prev Casing Data**		
Casing Size	WH x 13 3/8"	**Type**	Seawater & Prehydrated Gel Sweeps		**Casing Size**	30"x20"	in
Hole Size	17 1/2"	**Weight**	8.7 ppg	1.04 SG	**Hole OD**	36"	in
Hole Calipered	no	**Preflush**			**M. Depth**	112	m
Caliper Tool used	n/a	**Type**	seawater		**Casing ID**	27"/28"18.75	in
Est BHT degree.C	n/a	**Weight**	8.7 ppg	1.04 sg	**Shoe Depth**	112	m

Cement Volumes			**Displacement**		**Pumping Pressures**		
Annular Vol.		142 bbl	**Calc. Disp**	111 bbl	**Max. Pumping Press.**	350	psi
% Excess	L:50%	T: 50%	**Cmt Unit Disp**	111 bbl	**Sheared Plug with**	2500	psi
Shoe Track		11.95 bbl	**Rig Displacement**	0 bbl	**Bumped Plug with**	850	psi
Rat Hole		0 bbl	**Actual Strokes**	0 str	**Tested Casing with**	2500	psi
Total Volume		197.72 bbl	**Liner size / bbl/stroke**	6.5" / 0.1193			

Cement Data

Lead Slurry			**Tail Slurry**			**Displacement Data**		
Cement Type		G	**Cement**		G	**Mix Rate Lead /Tail**	1.40	bpm
Slurry Volume		96.05 bbl	**Slurry Vol.**		101.7 bbl			
Mix Water	seawater	75.6 bbl	**Mix Water**	Seawater	bbl	**Displacement Rate**	9.00	bpm
Liq. Additive			**Liq. Additive**		-			
Econ		20gal/10bbl	**NF-1**	0.25 gal/sx	-	**Plug Bumped (Y/N)**	yes	
HR6L			**HR6L**		-			
Dry Additive			**Dry Additive $CaCl_2$**		1% BWOW	**Disp. Over Calc.**	0.00	bbl
Plan Wt	12.5 ppg	1.50 SG	**Plan Wt (ppg)**	15.8 ppg	1.90 SG			
Actual Wt	12.5 ppg	1.50 SG	**Actual Wt (ppg)**	15.8 ppg	1.90 SG	**Final Circ Press**	350	psi
Yield		2.23 cuft	**Yield**		1.17 cuft/sk			
Total # sx cement used		242 sx	**Total # sx cement used**		488 sx	**Disp. by Rig/Cmt Unit**	Cmt Unit	

Spacers			**Centralizers**			**Scratchers**	
Ahead			**Make**	-	Weatherford	**Make**	-
Type/Volume	Seawater	20.00 bbl	**Type**	-	Non Weld	**Type**	-
			Number	-	6	**Number**	-
Behind			**Spacing**	-	2 per shoe track J	**Spacing**	-
Type/Volume	Seawater	displ bbl	**Comments**	-	c/w stop collars	**Comments**	None Run

Casing Data

Total Depth - From RT (metres)	336.00 m	**Water Depth (m)**	77.50 m
Off Bottom (Rat Hole)	8.63 m	**RT-Sea Level**	25.00 m
Casing Shoe depth (mRT)	327.37 m	**Wellhead Stick-up above Mudline**	1.30 m
		RT to Wellhead Datum	76.20 m

Casing String Components

1x		18 3/4" Hsg/20"exten/swage/13 3/8" pup	12.13 m
1x		13 3/8" Jt c/w no cross coupling	12.21 m
16x		13 3/8" BTC Joints	191.23 m
1x		13 3/8" float Jt (baker locked).	12.31 m
1x		13 3/8" Inter Jt (Baker Locked)	11.74 m
1x		13 3/8" Shoe jt.(Baker Locked)	12.60 m
Total string length:			252.22 m
Landing String:			75.15 m

Casing Notes

Casing and Cementing Timetable

Operation	Start Time	End Time	Initial Press	Final Press	Vol (bbl)	Comments
Rig up and run casing	01:00hrs 26/5/02	08:30hrs 26/5/02				
Circulation	8:30	9:20	150	150	180	
Pre-flush	9:20	9:31			10	
Test Cement lines				3000		
Spacer	9:35	9:47			10	
Drop Ball/ Release Bottom Plug	9:35					No Shear off detected
Mix and Pump Lead	9:47				96	
Mix and Pump Tail		10:27			102	
Release Top Plug	10:27	10:29		2500		
Displacement	10:29	10:46		350	108	
Bump Plug / Test Casing		10:46	850	2500		Test Failed - pressure bleed off
Bleed Pres/Check Float Equip.						

Detailed Casing and Cementing Report

Commenced running casing at 01:00hrs 26/05/02 and landed well head at 08:30hrs

Ran 13 3/8" casing and landed and latched the Cameron 18 3/4" Well-Head in the 30" housing on the 2nd try with 80klbs down wt.It was necessary to spud it. (Ran 2 stands of 8 1/2" Drill Collars to achieve a total of 80klbs to latch well head.)

Circulated 180bbls seawater @ 90strokes, rigged cement lines, pumped 10bbl seawater, pressure tested to 3000psi, dropped the ball and displaced with 10bbls seawater. No shear off of bottom plug was seen.

Mixed and pumped 95bbls lead slurry and 102bbls tail slurry and displaced released the dart and displaced with 108bbls seawater at 9bbls/min. The top plug released at 2500psi

Reduced displacement rate to 4 bbls/min, 10bbls short of calculated displacement and bumped the plug with 500psi over final displacement pressure of 350psi - 850psi, Good Returns to surface throughout the job, Green dye back to surface indicating cement to the surface.

Raised pressure to 2500psi and observed a leak - bleed off with a view to retesting the casing after the stack has been run.

Released the running tool and recovered the landing string.

OMV Australia

Casing, Running and Cementing Report

Baleen 3
30"x20" Casing

OMV Australia Reps	Guy Howard & GavinOthen	**Drilling Contractor & Rig**	Ocean Bounty
OMV Australia Witness		**Cement Company & Service Rep.**	Halliburton
Date 25 May	25-May-2002		

Basic Data		Mud Data			Hole & Prev Casing Data		
Casing Size	30"x20"	**Type**	Seawater & Prehydrated Gel Sweeps		**Casing Size**	n/a	in
Hole Size	36"	**Weight**	8.7 ppg	1.04 SG	**Hole OD**	n/a	in
Hole Calipered	no	**Preflush**			**M. Depth**	n/a	m
Caliper Tool used	n/a	**Type**			**Casing ID**	n/a	in
Est BHT degree.C		**Weight**			**Shoe Depth**	n/a	m

Cement Volumes			Displacement		Pumping Pressures		
Annular Vol.		52.9 bbl	**Calc. Disp**	10.8 bbl	**Max. Pumping Press.**	0	psi
% Excess	L:%	T: 200%	**Cmt Unit Disp**	10.8 bbl	**Sheared Plug with**	n/a	psi
Shoe Track		2.24 bbl	**Rig Displacement**	0 bbl	**Bumped Plug with**	n/a	psi
Rat Hole		0 bbl	**Actual Strokes**	0 str	**Tested Casing with**	n/a	psi
Total Volume		160.8 bbl	**Liner size / bbl/stroke**	6.5" / 0.1193			

Cement Data

Lead Slurry			Tail Slurry			Displacement Data		
Cement Type			**Cement**	G		**Mix Rate Lead /Tail**	**5.00**	bpm
Slurry Volume			**Slurry Vol.**	160 bbl				
Mix Water			**Mix Water**	Seawater	bbl	**Displacement Rate**	**4 to 5.5**	bpm
Liq. Additive			**Liq. Additive**	-				
Econ			**NF-1**	-		**Plug Bumped (Y/N)**	**n/a**	
HR6L			**HR6L**	-				
Dry Additive			**Dry Additive**	-		**Disp. Over Calc.**	**0.00**	bbl
Plan Wt	ppg	SG	**Plan Wt (ppg)**	ppg	SG			
Actual Wt	ppg	SG	**Actual Wt (ppg)**	ppg	SG	**Final Circ Press**	**0**	psi
Yield		cuft/sk	**Yield**		cuft/sk			
Total # sx cement used		sx	**Total # sx cement used**	772	sx	**Disp. by Rig/Cmt Unit**	Cmt Unit	

Spacers			Centralizers		Scratchers	
Ahead			**Make**	-	**Make**	-
Type/Volume	Seawater	5.00 bbl	**Type**	-	**Type**	-
			Number	-	**Number**	-
Behind			**Spacing**	-	**Spacing**	-
Type/Volume		n/a bbl	**Comments**	-	**Comments**	None Run

Casing Data

Total Depth - From RT (metres)	112.00 m	**Water Depth (m)**	77.50 m
Off Bottom (Rat Hole)	0.00 m	**RT-Sea Level**	25.00 m
Casing Shoe depth (mRT)	112.00 m	**Wellhead Stick-up above Mudlir**	1.30 m
		RT to Wellhead Datum	76.20 m

Casing String Components

1x	30" Well head	11.85 m
1x	30" Intermediate Joint	11.95 m
1x	30" x 20" Shoe Joint	11.98 m
Total string length:		35.78 m
Landing String:		

Casing Notes

Detailed Casing and Cementing Report

Ran 30"x20" casing and landed PGB per programme. Unable to get to bottom washed the last 2 mts.
PGB slope indicator was 1 degrees Starboard. Top of 30" wellhead is at 76.20 m (1.3 m) above seabed.

Started job at 01:00 hrs and pumped 5 bbl seawater at 5 bpm with cement unit and pressure tested cement lines to 2000psi.

Mixed and pumped 772 sx 'G' Grade cement with 92 bbls sea water and 1% CaCl Weight of 15.8 ppg. At 5 bpm

Displaced with 10.7 bbl of sea water. Checked for back flow

The job was completed at 02:00 hrs.

OMV Australia

Casing, Running and Cementing Report

Baleen- 3
9 5/8" Casing

OMV Australia Reps	Don King & Gavin Othen	**Drilling Contractor & Rig**	Ocean Bounty
		Cement Company & Service Rep.	Halliburton
Date	31-May-2001		

Job Planning

Basic Data		Mud Data			Hole & Prev Casing Data		
Casing Size	9 5/8 in	**Type**		PHPA	**Casing Size**	13.375	in
Hole Size	12.25 in	**Weight**	9.6 ppg	1.15 SG	**Hole OD**	17.50	in
Hole Calipered	N	**Preflush**			**M. Depth**	336	m
Caliper Tool used		**Type**		Super Flush	**Casing ID**	12.452	in
Est BHT degree.C		**Weight**	9.2 ppg	1.10 SG	**Shoe Depth**	327.37	m

Cement Volumes				Displacement	
Annular Vol.			71 bbl	**Calc. Disp**	190 bbl
% Excess	Lead %	0	Tail % 20	**Cmt Unit Disp**	10 bbl
Shoe Track			5.9 bbl	**Rig Displacement**	180 bbl
Rat Hole			3 bbl	**Calc Strokes**	1866 str
Total Volume			84 bbl	**Liner size / bbl/stroke**	6.0" / 0.1018

Cement Job Data

Lead Slurry			Tail Slurry			Displacement and Pressure Data	
Cement Type	-		**Cement**	G		**Mix Rate Lead /Tail**	5.40 bpm
Slurry Volume	-	bbl	**Slurry Volume**	84	bbl	**Max. Slurry Pump Press.**	460 psi
Mix Water -	-	bbl	**Mix Water** Drill Water	50	bbl	**Cement Unit Disp Rate**	5.40 bpm
Econolite	-	gal	**Liq. Additive**	-		**Top Plug Shear Volume**	2 bbl
HR6-L	-	gal	**NF-1**	-		**Sheared Top Plug with**	1160 psi
NF-1	-	gal	**HR6L**			**Cmt Unit Displacement**	5 bbl
Dry Additive			**Dry Additive**	-		**Rig Pump Init Disp Rate**	15.00 bpm
Plan Wt ppg		SG	**Plan Wt (ppg)**	15.8 ppg	1.90 SG	**Rig Pump Fin Disp Rate**	6 bpm
Actual Wt ppg		SG	**Actual Wt (ppg)**	15.8 ppg	1.90 SG	**Final Circ Press**	350 psi
Yield	-	cuft/sk	**Yield**		1.16 cuft/sk	**Plug Bumped (Y/N)**	Yes
Total # sx cement used	-	sx	**Total # sx cement used**		408 sx	**Bumped Plug with**	850 psi
						Rig Pump Displacement	180 bbl
						Total Displacement	190.0 bbl
						Disp Over Calc	0.0 bbl
						Tested Casing with	3,000 psi

Spacers			Centralizers		Scratchers	
Ahead			**Make**	Weatherford	**Make**	-
Type/Volume	Sea Water	10.00 bbl	**Type**	Spring	**Type**	-
			Number	14	**Number**	-
Behind			**Spacing**	2 ea shoe, int and float jt.	**Spacing**	-
Type/Volume		n/a bbl	**Comments**	1 each next 7 joints	**Comments**	

Casing Data

Total Depth - From RT (metres)	871.00 m		**Water Depth (m LAT)**	52.50 m
Off Bottom (Rat Hole)	4.92 m		**RT-Sea Level**	25.00 m
Casing Shoe depth (mRT)	866.08 m		**Casing Hanger Stick-up above Muc**	0.86 m
			RT to Casing Hanger Datum	76.64 m

Casing String Components

1	x	9 5/8" casing hanger	2.33 m
1	x	9 5/8" X /O pup joint	3.17
58	x	joints 9 5/8" casing NK3SB 47ppf	746.36 m
1	x	Float collar joint	13.05 m
1	x	Intermediate joint	12.03 m
1	x	Shoe joint w/ BBL reamer shoe (no float)	12.50 m
Total string length:			789.44 m

Landing String:	Cameron running tool with 5" S135 DP	76.64 m

Casing Notes

Casing landed successfully, no hole problems.

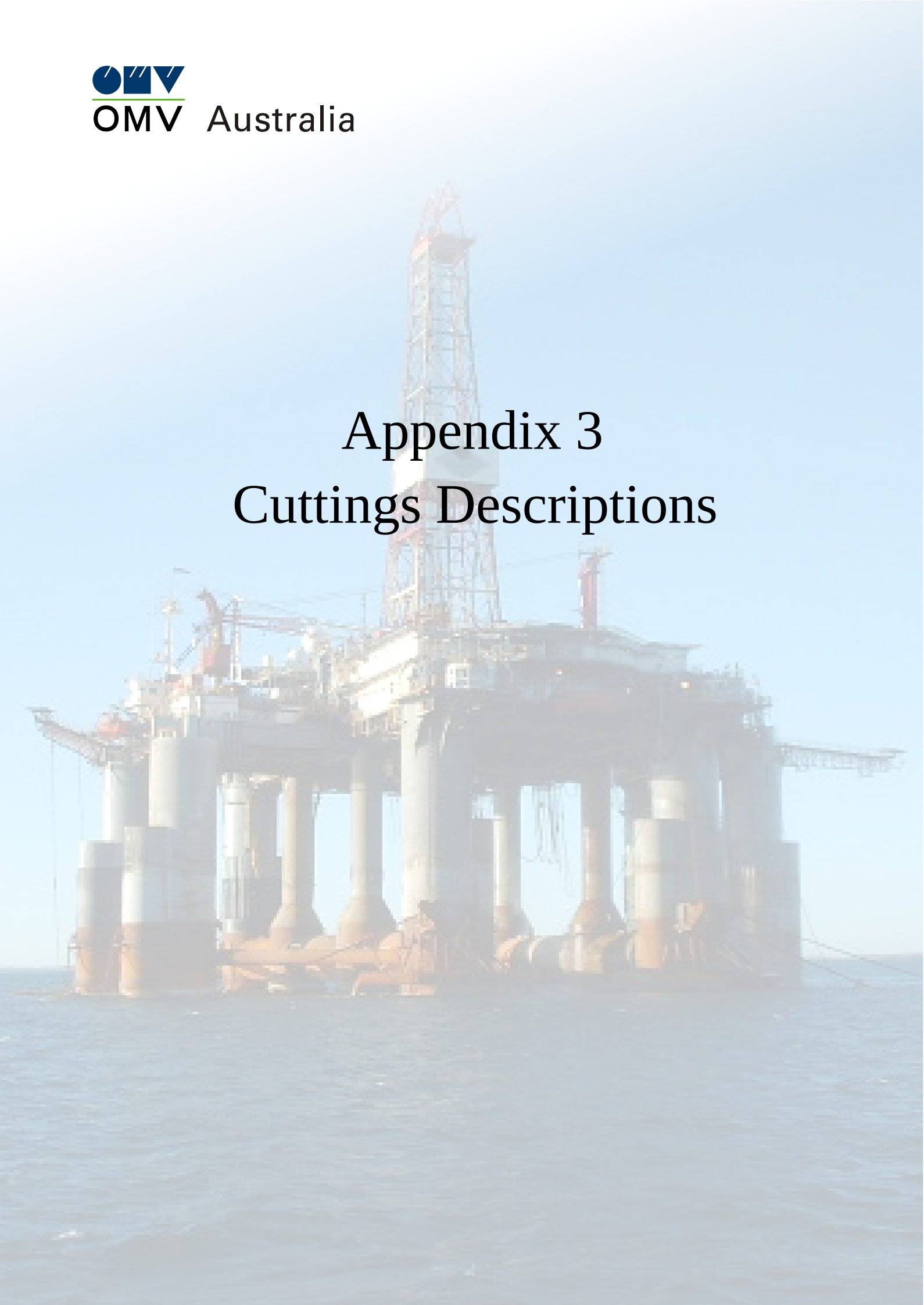
Casing and Cementing Timetable

Operation	Start Time	End Time	Pump Pressure (initial)	Pump Pressure (Final)	Volume (bbl)	Comments
Rig up and run casing	13:00hrs 31 -May	20:00: PM	-		-	
Circulation	20:00	21:30	-	-	-	
Pre-flush	21:55	22:05	480	480	60	
Spacer	-	-	-	-	-	
Drop Ball/ Release Bottom Plug	22:10	22:20	-	-	2	Sheared at 1160psi
Mix and Pump Lead	-	-	-	-	-	
Mix and Pump Tail	22:20	22:40	485	470	84	Weight 1.89 SG
Release Top Plug	22:45	22:50	-	-	-	Sheared at 2400 psi
Displacement	22:50	23:20	150	350	180	
Bump Plug / Test Casing	23:20	23:40	350	3000	-	
Bleed Pres/Check Float Equip.	23:40	23:45	3000	0	-	Floats Held

Detailed Casing and Cementing Report

Ran 9 5/8" casing. Landed successfully, no hole problems.
Circulated 320 bbls (1 x 1/2 times casing volume
Pumped 10 bbls sea water and pressure tested lines to 3,000 psi.
Pumped 60 bbls of Super flush 102 / 10 bbls Sea water
Dropped bottom launching plug and sheared plug with 1160 psi.
The tail slurry was then mixed and pumped 408 sx 'G' Grade cement, 84 bbls of cement slurry @ 1.89 SG.
Dropped top launching dart sheared top plug at 2,400 psi
Cement unit pumped 10 bbls of displacment.
Rig pumped calclated 180 bbls and bumped plug Circulating pressure 350 psi tested bump to 850 psi.
Cement unit pressure tested casing 3,000 psi 10 min.

OMV Australia



Appendix 3
Cuttings Descriptions

Well Name : BALEEN-3	**Print Date** Wed 05/06/2002
Wellsite Geologist(s) : Peter Boothby Ross Tolliday	

Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
336 to 340	90	**FOSSILIFEROUS CALCARENITE:** white, cream, pale greenish grey, fine to medium grained calcite, 30-40% fossil fragments (shell, bryozoa) and coral debris, forams, 5% calcilutitic in part, recrystallised in part, trace dark green pelloidal glauconite, trace pyrite, good inferred intergranular porosity.	62	0
	10	**CEMENT :**		
340 to 345	90	**FOSSILIFEROUS CALCARENITE:** white to very light grey, light greenish grey, fine to medium grained calcite, 15-25% fossil fragments (shell, bryozoa) and coral debris, forams, 5% calcilutitic in part, recrystallised in part, trace dark green pelloidal glauconite, trace pyrite, good inferred intergranular porosity.		
	10	**CEMENT :**		
345 to 350	100	**CALCARENITE :** white to very light grey, light greenish grey, very fine to medium grained calcite, 10-15% fossil fragments (shell, bryozoa, echinoid spicules) and coral debris, trace forams, 5-10% calcilutitic in part, recrystallised in part, trace light to dark green pelloidal glauconite, trace pyrite, fair to good inferred intergranular porosity.		
350 to 360	100	**CALCARENITE :** as above. Grades to Calcilutite in part.	70	0
360 to 370	100	**CALCARENITE :** white to very light grey, light greenish grey, very fine to medium grained calcite, 15-20% fossil fragments (shell, bryozoa, echinoid spicules) and coral debris, trace forams, 5-10% calcilutitic in part, recrystallised in part, trace light to dark green pelloidal glauconite, trace pyrite, fair to good inferred intergranular porosity. Grades to Fossiliferous Calcarenite.		
370 to 380	100	**CALCARENITE :** as above, decreased fossil frags.	76	0
380 to 390	100	**FOSSILIFEROUS CALCARENITE:** white to very light grey, light greenish grey, fine to medium grained calcite, 15-25% fossil fragments (shell, bryozoa, echinoid spicules) and coral debris, forams, 5% calcilutitic in part, recrystallised in part, trace light to dark green glauconite, trace pyrite, fair to good inferred intergranular porosity.		
390 to 400	80	**FOSSILIFEROUS CALCARENITE:** white to very light grey, light greenish grey, yellowish to pinkish grey, very fine to medium grained calcite, 15-25% fossil fragments (shell, bryozoa, echinoid spicules) and coral debris, trace forams, 5% calcilutitic in part, recrystallised in part, trace light to dark green glauconite, trace pyrite, fair to good inferred intergranular porosity.	76	0
	20	**ARGILLACEOUS CALCILUTITE:** very light to light greenish grey, light grey in parts, very soft to soft, dispersive in part, 15-25% argillaceous matrix, trace to 5% calcisilt. trace glauconite silt.		
400 to 410	60	**FOSSILIFEROUS CALCARENITE:** as above		
	40	**ARGILLACEOUS CALCILUTITE:** as above		
410 to 420	90	**FOSSILIFEROUS CALCARENITE:** white to very light grey, light greenish grey, yellowish to pinkish grey, soft to firm, very fine to fine grained calcite, calcisilt in part, 15-25% fossil fragments (shell, bryozoa, echinoid spicules) and coral debris, trace forams, 5% calcilutite in part, re-crystallized in part, trace light to dark green glauconite, trace pyrite, fair inferred intergranular	84	0

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Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		porosity.		
	10	**ARGILLACEOUS CALCILUTITE:** as above		
420 to 430	60	**CALCARENITE :** white to very light grey, light greenish grey, yellowish to pinkish grey, soft to firm, very fine to fine grained calcite, calcisilt in part, 10-15% fossil fragments (shell, bryozoa, echinoid spicules) and coral debris, trace forams, 5-15% calcilutite matrix, recrystallised in part, trace light to dark green glauconite, trace pyrite, poor to fair inferred intergranular porosity.		
	40	**ARGILLACEOUS CALCILUTITE:** very light to light greenish grey, light to medium olive grey, very soft to soft, dispersive in part, 15-30% argillaceous matrix, trace to 5% calcisilt. trace glauconite silt.		
430 to 440	70	**CALCARENITE :** as above	78	0
	30	**ARGILLACEOUS CALCILUTITE:** as above		
440 to 450	50	**CALCARENITE :** white to very light grey, light greenish grey, yellowish to pinkish grey, soft to firm, silty to fine grained calcite, 5-10% fossil fragments (shell, bryozoa, echinoid spicules, coral), trace forams, 5-15% calcilutite matrix, recrystallised in part, trace light to dark green glauconite, trace pyrite, poor to fair inferred intergranular porosity. Grades to Calcisiltite in parts.		
	50	**ARGILLACEOUS CALCILUTITE:** very light to light greenish grey, light to medium olive grey, very soft to soft, dispersive in part, 15-35% argillaceous matrix, trace to 5% calcisilt. trace glauconite silt.		
450 to 460	60	**ARGILLACEOUS CALCILUTITE:** very light to light greenish grey, light to medium olive grey, very soft to soft, dispersive in part, 15-35% argillaceous matrix, 5-10% calcisilt. trace glauconite silt.	72	0
	40	**CALCARENITE :** as above		
460 to 470	70	**CALCARENITE :** very light to light grey, yellowish to pinkish grey, firm to hard, silty to fine grained calcite, 5-10% fossil fragments (shell, bryozoa, echinoid spicules, coral), 5-15% calcilutite matrix, recrystallised in part, trace light green glauconite, trace pyrite, poor inferred intergranular porosity. Grades to Calcisiltite in parts		
	30	**ARGILLACEOUS CALCILUTITE:** as above		
470 to 480	50	**ARGILLACEOUS CALCILUTITE:** very light to light greenish grey, medium olive grey, very soft to soft, dispersive in part, 15-35% argillaceous matrix, 5-15% calcisilt. trace glauconite silt.	64	0
	50	**CALCARENITE :** as above		
480 to 485	70	**ARGILLACEOUS CALCILUTITE:** as above		
	30	**CALCARENITE :** as above		
485 to 490	60	**CALCARENITE :** very light to light grey, yellowish to pinkish grey, firm to hard, silty to fine grained calcite, 5-10% fossil fragments (shell, bryozoa, echinoid spicules, coral), 5-10% calcilutite matrix, recrystallised in part, trace light green glauconite, trace pyrite, poor inferred intergranular porosity. Grades to Calcisiltite in parts	76	0
	40	**ARGILLACEOUS CALCILUTITE:** very light to light greenish grey, medium olive grey, amorphous, very soft to soft, dispersive in part, 20-40% argillaceous matrix, 5-15% calcisilt. trace glauconite silt. Grades to Calcareous Claystone.		

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490 to 500	60	**ARGILLACEOUS CALCILUTITE:** very light to light greenish grey, medium olive grey, amorphous, very soft to soft, dispersive in part, 20-40% argillaceous matrix, 5-15% calcisilt. trace glauconite silt, trace light bluish chert, hard conchoidal fracture. Grades to Calcareous Claystone.	68	0
	40	**CALCARENITE :** very light to light grey, yellowish to pinkish grey, firm to hard, silty to fine grained calcite, trace -5% fossil fragments (shell, bryozoa, echinoid spicules, coral), 5-10% calcilutite matrix, recrystallised in part, trace light green glauconite, trace pyrite. Grades to Calcisiltite in parts		
500 to 510	60	**ARGILLACEOUS CALCILUTITE:** light greenish grey to medium olive grey, amorphous, soft, dispersive in part, 20-40% argillaceous matrix, 5-15% calcisilt. trace glauconite silt. Grades to Calcareous Claystone.		
	40	**CALCARENITE :** as above. trace-1% dark green pelloidal glauconite.		
510 to 515	50	**CALCARENITE :** very light to light grey, yellowish grey, firm to hard, silty to fine grained calcite, trace -5% fossil fragments (shell, bryozoa, echinoid spicules), 5-10% calcilutite matrix, recrystallised in part, trace light to dark green glauconite, nil to trace pyrite. Grades to Calcisiltite in parts.	62	0
	50	**ARGILLACEOUS CALCILUTITE:** light greenish grey to medium olive grey, medium dark grey in parts, amorphous, soft, dispersive in part, 20-30% argillaceous matrix, 10-20% calcisilt. trace glauconite silt. Grades to Argillaceous Calcisiltite in parts.		
515 to 520	60	**CALCARENITE :** as above, increase in fossil fragments	66	0
	40	**ARGILLACEOUS CALCILUTITE:** as above		
520 to 525	70	**ARGILLACEOUS CALCILUTITE:** as above	72	0
	30	**CALCARENITE :** as above		
525 to 530	70	**ARGILLACEOUS CALCILUTITE:** light greenish grey to medium olive grey, medium dark grey in parts, amorphous, soft, dispersive in part, 20-30% argillaceous matrix, 10-20% calcisilt. trace glauconite silt. Grades to Argillaceous Calcisiltite in parts.	64	0
	30	**CALCARENITE :** very light to light grey, yellowish grey, firm to hard, silty to fine grained calcite, trace -5% fossil fragments (shell, bryozoa, echinoid spicules), 5-10% calcilutite matrix, recrystallised in part, trace light to dark green glauconite, nil to trace pyrite. Grades to Calcisiltite in parts.		
530 to 535	50	**ARGILLACEOUS CALCILUTITE:** as above.	66	0
	40	**CALCARENITE :** as above		
	10	**CALCISILTITE :** light grey, light to medium yellowish grey, firm to hard, trace -5% fossil fragments (shell, bryozoa, echinoid spicules), trace to 10% fine grained calcite, 5-10% calcilutite matrix, recrystallised in part, trace light to dark green glauconite, nil to trace pyrite.		
535 to 540	60	**ARGILLACEOUS CALCILUTITE:** as above	50	2
	20	**CALCARENITE :** as above		
	20	**CALCISILTITE :** as above		
540 to 545	40	**CALCARENITE :** very light to light grey, light to medium yellowish grey, firm to hard, silty to medium grained calcite, trace -5% fossil fragments (shell, bryozoa, echinoid spicules), 5-10% calcilutite matrix, recrystallised in part, trace light to dark green glauconite, nil to trace pyrite. Grades to	80	2

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Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		Calcisiltite in parts.		
	40	**ARGILLACEOUS CALCILUTITE:** as above.		
	20	**CALCISILTITE :** as above.		
545 to 550	40	**CALCISILTITE :** light grey, light to medium yellowish grey, soft to firm, rare hard, trace -10% fossil fragments (shell, bryozoa, echinoid spicules), trace to 10% fine grained calcite, grades to calcarenite in part, 5-10% calcilutite matrix, recrystallised in part, trace light to dark green glauconite, nil to trace pyrite.	62	2
	30	**ARGILLACEOUS CALCILUTITE:** light greenish grey to medium olive grey, medium dark grey in parts, amorphous, soft, dispersive in part, 20-30% argillaceous matrix, 10-20% calcisilt. trace glauconite silt. Grades to Argillaceous Calcisiltite in parts.		
	30	**CALCARENITE :** as above		
550 to 555	50	**ARGILLACEOUS CALCILUTITE:** as above	52	0
	30	**CALCARENITE :** as above		
	20	**CALCISILTITE :** as above		
555 to 560	60	**ARGILLACEOUS CALCILUTITE:** as above	52	0
	20	**CALCISILTITE :** as above		
	20	**CALCARENITE :** as above		
560 to 565	40	**ARGILLACEOUS CALCILUTITE:** as above	62	0
	30	**CALCARENITE :** very light to light grey, light to medium yellowish grey, firm, silty to fine grained calcite, trace -10% fossil fragments (shell, bryozoa, echinoid spicules), 5-15% calcilutite matrix, recrystallised in part, trace light to dark green glauconite, nil to trace pyrite. Grades to Calcisiltite in parts.		
	30	**CALCISILTITE :** as above		
565 to 570	40	**CALCARENITE :** as above	68	0
	40	**ARGILLACEOUS CALCILUTITE:** as above		
	20	**CALCISILTITE :** as above		
570 to 575	30	**CALCAREOUS CLAYSTONE:** light to dominantly medium olive grey, occasionally dark olive grey, soft to firm, amorphous to sub-blocky, 20-30% micrite content, grades to Marl / Argillaceous Calcilutite,	72	0
	30	**CALCARENITE :** as above		
	30	**ARGILLACEOUS CALCILUTITE:** as above, grades to Calcareous Claystone in part.		
	10	**CALCISILTITE :** as above		
575 to 580	40	**CALCARENITE :** as above	69	0
	30	**CALCAREOUS CLAYSTONE:** as above, grades in part to Argillaceous Calcilutite.		
	20	**ARGILLACEOUS CALCILUTITE:** as above		
	10	**CALCISILTITE :** as above, grades to Calcarenite in part.		

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Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
580 to 585	50	**CALCARENITE :** very light to light grey, light to medium yellowish grey, firm, silty to fine grained calcite, trace -5% fossil fragments (shell, bryozoa, echinoid spicules), 5-20% calcilutite matrix, recrystallised in part, trace light to dark green glauconite, nil to trace nodular pyrite. Grades to Calcisiltite in parts.	80	0
	20	**ARGILLACEOUS CALCILUTITE:** as above		
	20	**CALCISILTITE :** as above		
	10	**CALCAREOUS CLAYSTONE:** as above		
585 to 590	30	**ARGILLACEOUS CALCILUTITE:** as above	78	0
	30	**CALCARENITE :** as above		
	20	**CALCISILTITE :** as above		
	20	**CALCAREOUS CLAYSTONE:** as above		
590 to 595	60	**ARGILLACEOUS CALCILUTITE:** light greenish grey to medium olive grey, medium dark grey in parts, amorphous, soft, dispersive, 20-30% argillaceous matrix, 10-20% calcisilt. trace glauconite silt. Grades to Argillaceous Calcisiltite in parts.		
	20	**CALCARENITE :** as above.		
	10	**CALCAREOUS CLAYSTONE:** as above		
	10	**CALCISILTITE :** as above		
595 to 600	60	**ARGILLACEOUS CALCILUTITE:** as above.	52	0
	30	**CALCARENITE :** as above		
	10	**CALCISILTITE :** as above		
600 to 605	60	**ARGILLACEOUS CALCILUTITE:** as above.		
	30	**CALCARENITE :** as above.		
	10	**CALCISILTITE :** light grey, light to medium olive grey, soft to firm, trace -5% fossil fragments (shell, bryozoa, echinoid spicules), trace to 10% fine grained calcite, grades to calcarenite in part, 5-10% calcilutite matrix, recrystallised in part, trace light to dark green glauconite, nil to trace pyrite.		
605 to 610	60	**ARGILLACEOUS CALCILUTITE:** as above.	52	0
	20	**CALCISILTITE :** as above.		
	20	**CALCARENITE :** as above.		
610 to 615	60	**ARGILLACEOUS CALCILUTITE:** as above.		
	30	**CALCARENITE :** white to light grey, light to medium yellowish grey, firm, silty to fine grained calcite, trace - 5% fossil fragments (shell, bryozoa, echinoid spicules), 5-20% calcilutite matrix, recrystallised in part, trace light to dark green glauconite, nil to trace nodular pyrite. Grades to Calcisiltite in parts.		
	10	**CALCISILTITE :** as above.		
615 to 620	60	**ARGILLACEOUS CALCILUTITE:** as above.	54	0

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Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
	20	**CALCARENITE :** as above		
	20	**CALCISILTITE :** as above		
620 to 625	40	**ARGILLACEOUS CALCILUTITE:** light greenish grey to medium olive grey, medium dark grey in parts, amorphous, soft to firm, slightly dispersive, 20-30% argillaceous matrix, 10-20% calcisilt. trace glauconite silt. Grades to Argillaceous Calcisiltite in parts.		
	30	**CALCISILTITE :** as above		
	30	**CALCARENITE :** as above		
625 to 630	40	**CALCARENITE :** as above	63	0
	40	**ARGILLACEOUS CALCILUTITE:** as above		
	20	**CALCISILTITE :** as above		
630 to 635	40	**ARGILLACEOUS CALCILUTITE:** as above		
	35	**CALCARENITE :** as above		
	25	**CALCISILTITE :** light grey, light to medium olive grey, soft to firm, trace -5% fossil fragments (shell, bryozoa, echinoid spicules), trace to 10% fine grained calcite, grades to calcarenite in part, 5-10% calcilutite matrix, recrystallised in part, trace light to dark green glauconite, nil to trace nodular pyrite.		
635 to 640	45	**CALCARENITE :** as above	64	0
	35	**ARGILLACEOUS CALCILUTITE:** as above		
	20	**CALCISILTITE :** as above		
640 to 645	55	**ARGILLACEOUS CALCILUTITE:** light greenish grey to medium olive grey, amorphous, soft to firm, slightly dispersive, 20-30% argillaceous matrix, 10-20% calcisilt. trace glauconite silt. Grades to Argillaceous Calcisiltite in parts.		
	30	**CALCARENITE :** as above		
	15	**CALCISILTITE :** as above		
645 to 650	65	**ARGILLACEOUS CALCILUTITE:** as above	62	0
	20	**CALCARENITE :** as above		
	15	**CALCISILTITE :** as above		
650 to 660	65	**ARGILLACEOUS CALCILUTITE:** as above	62	0
	20	**CALCARENITE :** white to light grey, light to medium yellowish grey, firm, fine to medium grained calcite, trace - 5% fossil fragments (shell, bryozoa, echinoid spicules), 5-20% calcilutite matrix, recrystallised in part, trace light to dark green glauconite, nil to trace nodular pyrite. Grades to Calcisiltite in parts.		
	15	**CALCISILTITE :** light grey, light to medium olive grey, soft to firm, trace -5% fossil fragments (shell, bryozoa, echinoid spicules), trace to 10% fine grained calcite, grades to calcarenite in part, 5-10% calcilutite matrix, recrystallised in part, trace light to dark green glauconite, nil to trace nodular pyrite.		
660 to 670	50	**ARGILLACEOUS CALCILUTITE:** as above	51	0

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Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
	40	**CALCARENITE :** as above		
	10	**CALCISILTITE :** as above		
670 to 680	60	**ARGILLACEOUS CALCILUTITE:** light greenish grey to medium to dark olive grey, amorphous, soft to firm, slightly dispersive, 20-30% argillaceous matrix, 10-20% calcisilt. trace glauconite silt. Grades to Argillaceous Calcisiltite in parts.	48	0
	30	**CALCARENITE :** as above		
	10	**CALCISILTITE :** as above		
680 to 690	60	**ARGILLACEOUS CALCILUTITE:** as above	70	0
	30	**CALCARENITE :** as above		
	10	**CALCISILTITE :** as above		
690 to 695	50	**ARGILLACEOUS CALCILUTITE:** as above		
	40	**CALCARENITE :** white to light grey, light to medium yellowish grey, firm, fine to medium grained calcite, trace - 5% fossil fragments comprising shell fragments, bryozoa, and echinoid spicules, trace forams, 5-10% calcilutite matrix, recrystallised in part, trace light to dark green glauconite, nil to trace nodular pyrite. Grades to Calcisiltite in parts.		
	10	**CALCISILTITE :** as above		
695 to 700	55	**ARGILLACEOUS CALCILUTITE:** as above	45	0
	35	**CALCARENITE :** as above		
	10	**CALCISILTITE :** as above		
700 to 705	70	**ARGILLACEOUS CALCILUTITE:** light greenish grey to medium olive grey, soft to firm, amorphous, slightly dispersive, 20-40% siliceous clay, trace to 5% calcisilt. trace glauconite, commonly grades to Marl / Calcareous Claystone.	45	0
	20	**CALCARENITE :** as above		
	10	**CALCISILTITE :** as above		
705 to 710	70	**ARGILLACEOUS CALCILUTITE:** light greenish grey to medium olive grey, soft to firm, amorphous, slightly dispersive, 20-40% siliceous clay, trace to 5% calcisilt. trace glauconite, commonly grades to Marl / Calcareous Claystone.		
	20	**CALCISILTITE :** light grey, light to medium olive grey, pinkish grey in parts, soft to firm, trace -5% fossil fragments (shell, bryozoa,), trace to 10% fine grained calcite, grades to calcarenite in part, 5-10% calcilutite matrix, recrystallised in part, trace light to dark green glauconite, nil to trace nodular pyrite.		
	10	**CALCARENITE :** white to light grey, light to medium yellowish grey, firm, fine to medium grained calcite, trace - 5% fossil fragments (shell, bryozoa,), 5-20% calcilutite matrix, recrystallised in part, trace light to dark green glauconite, nil to trace nodular pyrite. Grades to Calcisiltite in parts.		
710 to 715	60	**ARGILLACEOUS CALCILUTITE:** as above		
	20	**CALCISILTITE :** as above		
	10	**MARL :** light grey to light olive grey, very soft, dispersive, amorphous, 40-50% siliceous clay, trace calcisilt,		

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	10	**CALCARENITE :** as above		
715 to 720	60	**ARGILLACEOUS CALCILUTITE:** as above	28	0
	30	**MARL :** as above. Grades to Calcareous Claystone.		
	10	**CALCISILTITE :** as above, trace forams		
720 to 725	50	**ARGILLACEOUS CALCILUTITE:** light greenish grey to medium olive grey, soft to firm, amorphous, slightly dispersive, 20-40% siliceous clay, trace to 5% calcisilt. trace glauconite, commonly grades to Marl / Calcareous Claystone.	40	0
	40	**MARL :** light grey to light olive grey, medium to dark grey in parts, very soft, dispersive, amorphous, 40-50% siliceous clay, trace chert, trace disseminated pyrite, trace calcisilt. Grades to Calcareous Claystone		
	10	**CALCISILTITE :** light grey, light to medium olive grey, pinkish grey in parts, soft to firm, trace -5% fossil fragments (shell, bryozoa), trace forams, trace to 10% very fine grained calcite, grades to calcarenite in part, 5-10% calcilutite matrix, recrystallised in part, trace light to dark green glauconite, nil to trace nodular pyrite.		
725 to 730	40	**MARL :** as above	36	0
	30	**ARGILLACEOUS CALCILUTITE:** as above		
	20	**CALCAREOUS CLAYSTONE:** medium olive grey, occasionally dark olive grey, soft to firm, amorphous to sub blocky, 20-30% micrite content. Grades to Marl / Argillaceous Calcilutite,		
	10	**CALCISILTITE :** as above		
730 to 735	60	**MARL :** light grey to light olive grey, medium olive grey, very soft, dispersive, amorphous, 40-50% siliceous clay, trace chert, trace disseminated pyrite, trace calcisilt. Grades to Argillaceous Calcilutite.	42	0
	20	**CALCAREOUS CLAYSTONE:** medium olive grey, occasionally dark olive grey, soft to firm, amorphous to sub blocky, 20-30% micrite content. Grades to Marl / Argillaceous Calcilutite,		
	10	**ARGILLACEOUS CALCILUTITE:** light greenish grey to medium olive grey, soft to firm, amorphous, slightly dispersive, 20-40% siliceous clay, trace to 5% calcisilt. trace glauconite, commonly grades to Marl / Calcareous Claystone.		
	10	**CALCISILTITE :** light grey, light to medium olive grey, pinkish grey in parts, soft to firm, trace -5% fossil fragments (shell, bryozoa), trace forams, trace to 10% very fine grained calcite, grades to calcarenite in part, 5-10% calcilutite matrix, recrystallised in part, trace light to dark green glauconite, nil to trace nodular pyrite.		
735 to 740	70	**MARL :** light grey to light olive grey, medium olive grey, very soft to soft, dispersive, amorphous, 40-50% siliceous clay, trace chert, trace disseminated pyrite, trace calcisilt, trace forams. Grades to Argillaceous Calcilutite.	44	0
	30	**CALCAREOUS CLAYSTONE:** medium olive grey, occasionally dark olive grey, soft to firm, amorphous to sub blocky, 20-30% micrite content. Grades to Marl.		
740 to 750	60	**MARL :** as above	34	0
	40	**CALCAREOUS CLAYSTONE:** as above		
750 to 760	60	**CALCAREOUS CLAYSTONE:** medium olive to medium grey, occasionally dark olive grey, soft to firm, amorphous to sub blocky, 15-30% micrite	24	0

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		content. Grades to Claystone.		
	40	**MARL :** light grey to light olive grey, medium olive grey, very soft to soft, dispersive, amorphous, 40-50% siliceous clay, trace chert, trace disseminated pyrite, trace calcisilt, trace forams. Grades to Calcareous Claystone		
760 to 765	70	**CALCAREOUS CLAYSTONE:** medium grey to medium olive grey, occasionally dark olive grey, soft to firm, amorphous to sub blocky, 15-30% micrite content, trace forams, trace quartz silt to very fine sand. Grades to Claystone.	32	0
	30	**MARL :** as above		
765 to 770	70	**CALCAREOUS CLAYSTONE:** medium grey to medium olive grey, occasionally dark olive grey, greenish grey in parts, soft to firm, amorphous to sub blocky, 15-30% micrite content, trace forams, trace quartz silt to very fine sand, trace carbonaceous wisps. Grades to Claystone.	28	0
	30	**MARL :** light grey to light olive grey, medium olive grey, very soft to soft, dispersive, amorphous, 40-50% siliceous clay, trace chert, trace disseminated pyrite, trace calcisilt, trace forams. Grades to Calcareous Claystone		
770 to 780	80	**CALCAREOUS CLAYSTONE:** as above	28	0
	20	**MARL :** as above		
780 to 790	80	**CALCAREOUS CLAYSTONE:** as above	24	0
	20	**MARL :** as above		
790 to 795	70	**CALCAREOUS CLAYSTONE:** as above	32	0
	30	**MARL :** as above		
795 to 800	90	**CALCAREOUS CLAYSTONE:** medium grey to medium olive grey, occasionally dark olive grey, greenish grey in parts, brownish yellow in parts, soft to firm, very soft in parts, amorphous to sub blocky, 15-30% micrite content, trace forams, trace fossil fragments, trace quartz silt to very fine sand, trace carbonaceous wisps, trace very fine pelloidal glauconite. Grades to Claystone.	22	0
	10	**MARL :** light grey to light olive grey, medium olive grey, very soft to soft, dispersive, amorphous, 40-50% siliceous clay, trace chert, trace disseminated pyrite, trace calcisilt, trace forams. Grades to Calcareous Claystone.		
800 to 810	90	**CALCAREOUS CLAYSTONE:** medium grey to medium olive grey, occasionally dark olive grey, greenish grey in parts, brownish yellow in parts, soft to firm, very soft in parts, amorphous to sub blocky, 15-30% micrite content, trace forams, trace fossil fragments, trace quartz silt to very fine sand, trace carbonaceous wisps, trace-1% very fine pelloidal glauconite. Grades to Claystone.	28	0
	10	**MARL :** as above		
810 to 820	90	**CALCAREOUS CLAYSTONE:** as above, 2-3% dark green pelloidal glauconite	22	0
	10	**MARL :** as above		
820 to 830	100	**CALCAREOUS CLAYSTONE:** medium grey to medium olive grey, occasionally dark olive grey, greenish grey in parts, brownish yellow in	24	0

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Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		very fine sand, trace carbonaceous wisps, 1-3% very fine to fine pelloidal glauconite. Grades to Claystone.		
830 to 840	100	**CALCAREOUS CLAYSTONE:** medium grey to medium olive grey, occasionally dark olive grey, greenish grey in parts, brownish yellow in parts, soft to firm, very soft in parts, amorphous to sub blocky, 15-30% micrite content, trace forams, trace fossil fragments, trace -3% quartz silt to very fine sand, trace carbonaceous wisps, 1-3% very fine to fine pelloidal glauconite, trace pyrite. Grades to Claystone.	8	0
840 to 845	95	**CLAYSTONE :** medium grey to medium olive grey, occasionally dark olive grey, greenish grey in parts, soft to firm, amorphous to sub blocky, 5-10% micrite content, trace forams, trace-5% quartz silt to very fine sand, trace carbonaceous wisps, 3-5% very fine to fine pelloidal glauconite.	10	0
	5	**SANDY SILTSTONE:** medium brownish yellow, dark brown, soft to firm, very soft in parts, blocky, 15-25% very fine quartz, 10-20% argillaceous content, trace micrite content, trace-3% glauconite, trace mica, trace limonite? nodules.		
845 to 850	70	**CLAYSTONE :** as above	8	0
	20	**SILTY SANDSTONE:** light to dark yellowish brown, loose and friable, minor firm, clear to translucent, occasionally very light grey, quartz grains, very fine to fine , poorly to moderately sorted, sub angular to sub rounded, 15-25% quartz silt, 5-15% argillaceous content, 1-3% glauconite, trace mica, trace multicoloured lithics, fair inferred porosity, no fluorescence.		
	10	**SANDY SILTSTONE:** as above		
850 to 855	50	**SILTY SANDSTONE:** light to dark yellowish brown, medium brownish grey, loose and friable, minor firm, clear to translucent, occasionally very light grey, quartz grains, very fine to fine , poorly to moderately sorted, sub angular to sub rounded, 15-30% quartz silt, 5-15% argillaceous content, 1-3% glauconite, trace mica, trace multicoloured lithics, fair inferred porosity, no fluorescence.	4	0
	30	**SANDY SILTSTONE:** light to medium yellowish brown, dark brown, soft to firm, very soft in parts, blocky, 15-25% very fine quartz, 10-20% argillaceous content, trace micrite content, trace-3% glauconite, trace mica, trace limonite? nodules.		
	20	**CLAYSTONE :** as above		
855 to 860	70	**SILTY SANDSTONE:** as above	4	0
	25	**SANDY SILTSTONE:** as above		
	5	**CLAYSTONE :** as above		
860 to 865	60	**SILTY SANDSTONE:** as above	2	0
	30	**CLAYSTONE :** as above		
	10	**SANDY SILTSTONE:** as above		
865 to 870	80	**SILTY SANDSTONE:** light to dark yellowish brown, medium brownish grey, loose and friable, minor firm, clear to translucent, occasionally very light grey, quartz grains, very fine to fine , trace medium, poorly to moderately sorted, sub angular to sub rounded, 15-30% quartz silt, 5-15% argillaceous content, trace-3% glauconite, trace-1% mica (muscovite and biotite), trace multicoloured lithics, fair to good inferred porosity, no	4	0

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Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		fluorescence		
	15	**SANDY SILTSTONE:** light to medium yellowish brown, dark brown, soft to firm, very soft in parts, blocky, 15-25% very fine quartz, 10-20% argillaceous content, trace micrite content, trace-3% glauconite, trace mica, trace limonite? nodules.		
	5	**CLAYSTONE :** medium grey to medium olive grey, occasionally dark olive grey, greenish grey in parts, soft to firm, amorphous to sub blocky, 5-10% micrite content, trace forams, trace-5% quartz silt to very fine sand, trace carbonaceous wisps, 3-5% very fine to fine pelloidal glauconite		
870 to 875	40	**CLAYSTONE :** as above		
	30	**SANDY SILTSTONE:** as above		
	30	**SILTY SANDSTONE:** as above		
875 to 880	60	**SILTY SANDSTONE:** medium to dark yellowish brown, friable to minor firm, clear to translucent, occasionally very light grey, quartz grains, very fine to fine , trace medium, poorly to moderately sorted, sub angular to sub rounded, 15-30% quartz silt,10-25% siderite(?) cement, 5% argillaceous content, trace glauconite, trace-1% mica (muscovite and biotite), trace multicoloured lithics, fair to good inferred porosity, no fluorescence. Grades to Sideritic Sandstone.		
	30	**SANDY SILTSTONE:** dark yellowish brown to dark brown, soft to firm, very soft in parts, blocky, 15-25% very fine quartz, 10-20% siderite (?) content, trace micrite content, trace glauconite, trace carbonaceous debris, trace mica, trace limonite? nodules, trace pyrite.		
	10	**CLAYSTONE :** medium grey to medium olive grey, soft , amorphous to blocky, 5-10% micrite content, trace forams, trace-5% quartz silt to very fine sand, trace carbonaceous wisps, 3-5% very fine to fine pelloidal glauconite		
880 to 885	60	**SILTY SANDSTONE:** medium to dark yellowish brown, friable to minor firm, clear to translucent, occasionally very light grey, quartz grains, very fine to lower medium, mainly lower fine, poorly to moderately sorted, sub angular to sub rounded, 15-30% quartz silt,15-25% siderite(?) cement, 5% argillaceous content, trace glauconite, trace-1% mica (muscovite and biotite), trace multicoloured lithics, fair to good inferred porosity, no fluorescence. Grades to Sideritic Sandstone.		
	40	**SANDY SILTSTONE:** dark yellowish brown to dark brown, soft to firm, very soft in parts, blocky, 15-25% very fine quartz, 10-20% siderite (?) content, trace micrite content, trace glauconite, trace carbonaceous debris, trace mica, trace limonite? nodules, trace pyrite.		
885 to 890	70	**SILTY SANDSTONE:** as above, hard aggregates in parts, trace coarse grains.		
	30	**SANDY SILTSTONE:** as above		
890 to 895	90	**SILTY SANDSTONE:** medium to dark yellowish brown, friableand loose to hard aggregates, clear to translucent, occasionally very light grey, quartz grains, very fine to lower medium, mainly lower fine, moderately sorted, sub angular to sub rounded, 15-25% quartz silt,5-10% siderite(?) cement, 5% argillaceous content, trace glauconite, trace-1% mica (muscovite and biotite), trace-1% glauconite, trace multicoloured lithics, fair to good inferred porosity, no fluorescence.		
	10	**SANDY SILTSTONE:** as above		
895 to 900	95	**SILTY SANDSTONE:** as above, more friable , loose grains.		

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Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
	5	**SANDY SILTSTONE:** as above		
900 to 905	80	**SILTY SANDSTONE:** as above		
	20	**SANDY SILTSTONE:** dark yellowish brown to dark brown, soft to firm, very soft in parts, blocky, 15-25% very fine quartz, 10-20% siderite (?) content, trace micrite content, trace glauconite, trace carbonaceous debris, trace mica, trace limonite? nodules, trace pyrite.		
905 to 910	80	**SILTY SANDSTONE:** medium to dark yellowish brown, brownish grey, friable and loose to minor hard aggregates, clear to translucent, occasionally very light grey, quartz grains, very fine to fine, trace lower medium, moderately sorted, sub angular to sub rounded, 15-25% quartz silt, 5-15% siderite(?) cement, 5% argillaceous content, trace glauconite, trace-1% mica (muscovite and biotite), trace glauconite, trace multicoloured lithics, fair to good inferred porosity, no fluorescence.		
	20	**SANDY SILTSTONE:** dark yellowish brown to dark brown, soft to firm, very soft in parts, blocky, 15-25% very fine quartz, 10-20% siderite (?) content, trace glauconite, trace carbonaceous debris, trace mica, trace limonite? nodules, trace pyrite.		
910 to 915	90	**SILTY SANDSTONE:** as above		
	10	**SANDY SILTSTONE:** as above		
915 to 920	90	**SILTY SANDSTONE:** medium to dark yellowish brown, brownish grey, friable and loose to minor hard aggregates, clear to translucent, occasionally very light grey, quartz grains, very fine to fine, trace lower medium, moderately sorted, sub angular to sub rounded, 15-25% quartz silt, 5-15% siderite(?) cement, 5% argillaceous content, trace glauconite, trace-1% mica (muscovite and biotite), trace multicoloured lithics, fair to good inferred porosity, no fluorescence.		
	10	**SANDY SILTSTONE:** dark yellowish brown to dark brown, soft to firm, very soft in parts, blocky, 15-25% very fine quartz, 10-20% siderite (?) content, trace glauconite, trace carbonaceous debris, trace mica, trace limonite? nodules, trace pyrite.		
920 to 925	60	**SILTY SANDSTONE:** Medium to dark yellowish brown, medium to dark greyish brown, clear to translucent quartz grains, soft, silt size to fine grained, dominantly very fine to fine, moderately sorted, angular to subrounded, 15-25% quartz silt, 5% argillaceous content, suspect clays being dispersed in mud, trace to 2% sideritic cement, trace to 2% micrimica (biotite and muscovite), trace to 1% dark green glauconite, trace feldspar, trace nodular and disseminated pyrite, minor multicoloured lithics, fair to good inferred porosity.		
	40	**SANDY SILTSTONE:** as above		
925 to 930	50	**SILTY SANDSTONE:** as above, trace dark yellowish brown to dusky yellowish brown siderite nodules.		
	50	**SANDY SILTSTONE:** as above		
930 to 935	60	**SANDY SILTSTONE:** dark yellowish brown to dark brown, soft to very soft in parts, blocky, 15-25% very fine quartz, 5% siderite (?) content, trace glauconite, trace mica, trace limonite? nodules, trace pyrite.		
	40	**SILTY SANDSTONE:** as above		
935 to 940	60	**SANDY SILTSTONE:** as above		
	40	**SILTY SANDSTONE:** as above		

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Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
940 to 945	60	**SILTY SANDSTONE:** Medium to dark yellowish brown, medium to dark greyish brown, clear to translucent quartz grains, loose to minor firm aggregates, dominantly loose to friable, silt size to fine grained, dominantly very fine to fine, moderately sorted, angular to subrounded, 15-25% quartz silt, 5% argillaceous content, suspect clays being dispersed in mud, trace to 2% sideritic cement, trace to 2% micrimica (biotite and muscovite), trace to 1% dark green glauconite, trace feldspar, trace nodular and disseminated pyrite, minor multicoloured lithics, fair to good inferred porosity.		
	40	**SANDY SILTSTONE:** as above		
945 to 950	65	**SILTY SANDSTONE:** as above		
	35	**SANDY SILTSTONE:** as above		
950 to 955	70	**SILTY SANDSTONE:** as above		
	30	**SANDY SILTSTONE:** as above		
955 to 960	60	**SILTY SANDSTONE:** as above		
	40	**SANDY SILTSTONE:** dark yellowish brown to dark brown, dusky yellowish brown, soft to very soft in parts, sub-blocky, 15-25% very fine quartz, trace to 5% siderite content, trace glauconite, trace mica, trace nodular and disseminated pyrite.		
960 to 965	70	**SILTY SANDSTONE:** Medium to dark yellowish brown, medium to dark greyish brown, clear to translucent quartz grains, loose to minor firm aggregates, dominantly loose to friable, silt size to fine grained, dominantly very fine to fine, moderately sorted, angular to subrounded, 15-25% quartz silt, 5% argillaceous content, suspect clays being dispersed in mud, trace sideritic cement, trace to 3% micrimica (biotite and muscovite), trace to 2% dark green glauconite, trace feldspar, trace nodular and disseminated pyrite, minor multicoloured lithics, fair to good inferred porosity.		
	30	**SANDY SILTSTONE:** as above		
965 to 970	65	**SILTY SANDSTONE:** as above		
	35	**SANDY SILTSTONE:** as above		
970 to 975	65	**SILTY SANDSTONE:** as above		
	35	**SANDY SILTSTONE:** as above		
975 to 980	80	**SILTY SANDSTONE:** Medium to dark yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose to minor firm aggregates, dominantly loose to friable, silt size to fine grained, dominantly very fine to fine, poor to moderately sorted, angular to subrounded, 15-25% quartz silt, 5% argillaceous content, suspect clays being dispersed in mud, trace to minor sideritic cemented agrregates and nodules, trace to 3% micrimica (biotite and muscovite), trace to 2% dark green glauconite, trace feldspar, trace nodular and disseminated pyrite, minor multicoloured lithics, fair to good inferred porosity.	0	0
	20	**SANDY SILTSTONE:** as above		
980 to 990	80	**SILTY SANDSTONE:** as above	0	0
	20	**SANDY SILTSTONE:** as above		

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Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
990 to 1000	85	**SILTY SANDSTONE:** as above	0	0
	15	**SANDY SILTSTONE:** as above		
1000 to 1005	80	**SILTY SANDSTONE:** as above	0	0
	20	**SANDY SILTSTONE:** as above		
1005 to 1010	60	**SILTY SANDSTONE:** as above	0	0
	40	**SANDY SILTSTONE:** as above		
1010 to 1015	70	**SILTY SANDSTONE:** as above	0	0
	30	**SANDY SILTSTONE:** as above		
1015 to 1020	70	**SILTY SANDSTONE:** Medium to dark yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose to minor firm aggregates, dominantly loose to friable, silt size to fine grained, rare medium grained, dominantly very fine to fine, poor to moderately sorted, angular to subrounded, 15-25% quartz silt, 5-10% argillaceous content, suspect clays being dispersed in mud, trace to minor sideritic cemented aggregates and nodules, trace to 3% micrimica (biotite and muscovite), trace to 2% dark green glauconite, trace feldspar, trace nodular and disseminated pyrite, minor multicoloured lithics, fair to good inferred porosity.	0	0
	30	**SANDY SILTSTONE:** as above		
1020 to 1025	70	**SILTY SANDSTONE:** as above	0	0
	30	**SANDY SILTSTONE:** as above		
1025 to 1030	60	**SILTY SANDSTONE:** Medium to dark yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose to minor firm aggregates, dominantly loose to friable, silt size to fine grained, rare medium grained, dominantly very fine to fine, poor to moderately sorted, angular to subrounded, 15-25% quartz silt, 5-15% argillaceous (sideritic) content, suspect clays being dispersed in mud, trace to minor sideritic cemented aggregates and nodules, trace to 3% micrimica (biotite and muscovite), trace to 2% dark green glauconite, trace feldspar, trace nodular and disseminated pyrite, minor multicoloured lithics, fair to good inferred porosity.	0	0
	40	**SANDY SILTSTONE:** dark yellowish brown to dark brown, dusky yellowish brown, soft to very soft in parts, sub-blocky, 15-25% very fine quartz, trace to 5% siderite content, 10-15% argillaceous matrix, trace glauconite, trace mica, trace nodular and disseminated pyrite.		
1030 to 1040	80	**SILTY SANDSTONE:** as above	0	0
	20	**SANDY SILTSTONE:** as above		
1040 to 1045	80	**SILTY SANDSTONE:** as above, minor to common firm to hard aggregates.	0	0
	20	**SANDY SILTSTONE:** as above		
1045 to 1050			0	0

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Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
1050 to 1055	90	**SILTY SANDSTONE:** Medium to dark yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose to minor hard aggregates, dominantly loose to friable, silt size to fine grained, rare medium grained, dominantly very fine to fine, poor to moderately sorted, angular to subrounded, 15-25% quartz silt, 5-15% argillaceous (sideritic) content, suspect clays being dispersed in mud, trace to minor sideritic cemented aggregates and nodules, trace to 3% micrimica (biotite and muscovite), trace to 2% dark green glauconite, trace feldspar, trace nodular and disseminated pyrite, minor multicoloured lithics, fair to good inferred porosity.	0	0
	10	**SANDY SILTSTONE:** dark yellowish brown to dark brown, dusky yellowish brown, soft to very soft in parts, sub-blocky, 15-25% very fine quartz, trace to 5% siderite content, 10-20% argillaceous matrix, trace glauconite, trace mica, trace nodular and disseminated pyrite.		
1055 to 1060	80	**SILTY SANDSTONE:** as above	0	0
	20	**SANDY SILTSTONE:** as above		
1060 to 1065	95	**SILTY SANDSTONE:** Medium to dark yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose to minor hard aggregates, dominantly loose to friable, silt size to fine grained, rare medium grained, dominantly very fine to fine, poor to moderately sorted, angular to subrounded, 15-25% quartz silt, 5-15% argillaceous (sideritic) content, suspect clays being dispersed in mud, trace to minor sideritic cemented aggregates and nodules, trace to 3% micrimica (biotite and muscovite), trace dark green glauconite, trace feldspar, trace nodular and disseminated pyrite, minor multicoloured lithics, good inferred porosity.	0	0
	5	**SANDY SILTSTONE:** as above		
1065 to 1070	95	**SILTY SANDSTONE:** as above	0	0
	5	**SANDY SILTSTONE:** as above		
1070 to 1075	95	**SILTY SANDSTONE:** as above	0	0
	5	**SANDY SILTSTONE:** as above		
1075 to 1080	80	**SILTY SANDSTONE:** Medium to dark yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose to minor hard aggregates, dominantly loose to friable, silt size to fine grained, rare medium grained, dominantly very fine to fine, poor to moderately sorted, angular to subrounded, 15-25% quartz silt, 5-15% argillaceous (sideritic) content, suspect clays being dispersed in mud, trace to minor sideritic cemented aggregates and nodules, trace to 3% micromica (biotite and muscovite), trace dark green glauconite, trace feldspar, trace nodular and disseminated pyrite, minor multicoloured lithics, good inferred porosity.	0	0
	20	**SANDY SILTSTONE:** dark yellowish brown to dark brown, dusky yellowish brown, soft, very soft in parts, sub-blocky-blocky, 15-25% very fine quartz, trace to 5% siderite content, 10-20% argillaceous matrix, trace glauconite, trace mica, trace nodular and disseminated pyrite.		
1080 to 1085	100	**SILTY SANDSTONE:** as above, trace coarse to very coarse quartz grains.	0	0
1085 to 1090	100	**SILTY SANDSTONE:** as above, 2 coarse quartz grains	0	0
1090 to 1095	95	**SILTY SANDSTONE:** as above, single coarse quartz grain	0	0
	5	**SANDY SILTSTONE:** dark yellowish brown to dark brown, dusky yellowish brown, soft, very soft in parts, sub-blocky-blocky, 15-25% very		

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Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		fine quartz, trace to 5% siderite content, 10-20% argillaceous matrix, trace glauconite, trace mica, trace nodular and disseminated pyrite.		
1095 to 1100	94 5 1	**SILTY SANDSTONE:** as above **SANDY SILTSTONE:** as above **SANDSTONE :** clear to transluscent, loose, coarse to very coarse quartz grains, angular to subrounded.	0	0
1100 to 1105	99 1	**SILTY SANDSTONE:** Medium to dark yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose to minor hard aggregates, dominantly loose to friable, silt size to fine grained, rare medium grained, dominantly very fine to fine, poor to moderately sorted, angular to subrounded, 10-25% quartz silt, 5-10% argillaceous (sideritic) content, suspect clays being dispersed in mud, trace to minor sideritic cemented aggregates and nodules, trace to 2% micromica (biotite and muscovite), trace dark green glauconite, trace feldspar, trace disseminated pyrite, trace multicoloured lithics, good inferred porosity. **SANDSTONE :** as above	0	0
1105 to 1110	98 2	**SILTY SANDSTONE:** as above, common hard aggregates **SANDSTONE :** clear to transluscent, very light grey, loose, coarse to very coarse quartz grains, angular to subrounded.	0	0
1110 to 1115	98 2	**SILTY SANDSTONE:** as above **SANDSTONE :** clear to transluscent, very light grey, loose, coarse to very coarse quartz grains, trace medium, angular to subrounded, minor white kaolin matrix.	0	0
1115 to 1120	98 2	**SILTY SANDSTONE:** as above **SANDSTONE :** as above	0	0
1120 to 1125	99 1	**SILTY SANDSTONE:** as above **SANDSTONE :** as above	0	0
1125 to 1130	99 1	**SILTY SANDSTONE:** Medium to dark yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose to minor hard aggregates, dominantly loose to friable, silt size to fine grained, rare medium grained, dominantly very fine to fine, poor to moderately sorted, angular to subrounded, 10-25% quartz silt, 5-10% argillaceous (sideritic) content, suspect clays being dispersed in mud, trace to minor sideritic cemented aggregates and nodules, trace to 2% micromica (biotite and muscovite), trace dark green glauconite, trace feldspar, trace disseminated pyrite, trace multicoloured lithics, good inferred porosity. **SANDSTONE :** clear to transluscent, very light grey, trace yellow grey, loose, coarse to very coarse quartz grains, trace medium, subangular to subrounded, trace rounded, minor white kaolin matrix.	0	0
1130 to 1140	99 1	**SILTY SANDSTONE:** as above **SANDSTONE :** as above	0	0
1140 to 1150	99 1	**SILTY SANDSTONE:** as above, trace to 1% disseminated and nodular pyrite **SANDSTONE :** as above	0	0

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Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
1150 to 1160	99	**SILTY SANDSTONE:** Medium to dark yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose to minor hard aggregates, dominantly loose to friable, silt size to fine grained, rare medium grained, dominantly very fine to fine, poor to moderately sorted, angular to subrounded, 15-25% quartz silt, 5-10% argillaceous (sideritic) content, suspect clays being dispersed in mud, trace to minor sideritic cemented aggregates and nodules, trace to 1% micromica (biotite and muscovite), trace dark green glauconite, trace feldspar, trace-1% disseminated pyrite, trace multicoloured lithics, good inferred porosity.	0	0
	1	**SANDSTONE :** as above		
1160 to 1170	99	**SILTY SANDSTONE:** as above	0	0
	1	**SANDSTONE :** as above		
1170 to 1180	89	**SILTY SANDSTONE:** as above, trace -1% glauconite	0	0
	10	**SANDY SILTSTONE:** dark yellowish brown to dark brown, dusky yellowish brown, soft to very soft in parts, sub-blocky, 15-25% very fine quartz, trace to 5% siderite content, 10-15% argillaceous matrix, trace glauconite, trace mica, trace nodular and disseminated pyrite.		
	1	**SANDSTONE :** as above		
1180 to 1190	89	**SILTY SANDSTONE:** Medium to dark yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose to firm, minor hard aggregates, dominantly loose to friable, silt size to fine grained, rare medium grained, dominantly very fine to fine, poor to moderately sorted, angular to subrounded, 15-25% quartz silt, 5-10% argillaceous (sideritic) content, trace to minor siderite cemented aggregates and nodules, trace to 1% micromica (biotite and muscovite), trace dark green glauconite, trace feldspar, 10-20% disseminated and nodular pyrite, trace multicoloured lithics, good inferred porosity. Grades to Pyritic Sandstone.	0	0
	10	**SANDY SILTSTONE:** as above		
	1	**SANDSTONE :** as above		
1190 to 1200	90	**SILTY SANDSTONE:** Medium to dark yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose to firm, minor hard aggregates, dominantly loose to friable, silt size to fine grained, rare medium grained, dominantly very fine to fine, poor to moderately sorted, angular to subrounded, 15-25% quartz silt, 5-10% argillaceous (sideritic) content, trace to minor siderite cemented aggregates and nodules, trace to 1% micromica (biotite and muscovite), trace dark green glauconite, trace feldspar, 5% disseminated and nodular pyrite, trace multicoloured lithics, good inferred porosity.	0	0
	10	**SANDY SILTSTONE:** as above		
1200 to 1210	95	**SILTY SANDSTONE:** Medium to dark yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose to firm, minor hard aggregates, dominantly loose to friable, silt size to fine grained, rare medium grained, dominantly very fine to fine, poor to moderately sorted, angular to subrounded, 15-25% quartz silt, 5-10% argillaceous (sideritic) content, trace to minor siderite cemented aggregates and nodules, trace to 1% micromica (biotite and muscovite), trace dark green glauconite, trace feldspar, trace disseminated and nodular pyrite, trace multicoloured lithics, good inferred porosity.	0	0
	5	**SANDY SILTSTONE:** as above		

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Wellsite Geologist(s) :	Peter Boothby Ross Tolliday		

Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
1210 to 1220	95	**SILTY SANDSTONE:** as above	0	0
	5	**SANDY SILTSTONE:** as above		
1220 to 1230	95	**SILTY SANDSTONE:** as above	0	0
	5	**SANDY SILTSTONE:** as above		
1230 to 1240	80	**SILTY SANDSTONE:** Medium to dark yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose to firm, minor hard aggregates, dominantly loose to friable, silt size to fine grained, rare medium grained, dominantly very fine to fine, poor to moderately sorted, angular to subrounded, 15-25% quartz silt, 5-10% argillaceous (sideritic) content, trace to minor siderite cemented aggregates and nodules, trace to 1% micromica (biotite and muscovite), trace dark green glauconite, trace feldspar, trace disseminated and nodular pyrite, trace multicoloured lithics, good inferred porosity.	0	0
	20	**SANDY SILTSTONE:** dark yellowish brown to dark brown, dusky yellowish brown, soft to very soft in parts, sub-blocky, 15-25% very fine quartz, trace to 5% siderite content, 10-15% argillaceous matrix, trace glauconite, trace mica, trace nodular and disseminated pyrite.		
1240 to 1250	80	**SILTY SANDSTONE:** as above	0	0
	20	**SANDY SILTSTONE:** as above		
1250 to 1260	95	**SILTY SANDSTONE:** as above, trace coarse quartz grains.	0	0
	5	**SANDY SILTSTONE:** as above		
1260 to 1270	95	**SILTY SANDSTONE:** as above	0	0
	5	**SANDY SILTSTONE:** as above		
1270 to 1280	95	**SILTY SANDSTONE:** as above with trace loose coarse quartz grains.	0	0
	5	**SANDY SILTSTONE:** as above		
1280 to 1290	95	**SIDERITIC SANDSTONE:** medium to dark yellowish brown, loose to friable, minor firm, clear to translucent and occasionally very light grey quartz grains, very fine to lower medium, mainly lower fine, poorly to moderately sorted, angular to sub rounded, 15-30% quartz silt,15-25% siderite(?) cement in part, 20% dusky yellowish brown siderite nodules, 5% argillaceous content, trace glauconite, trace-1% mica (muscovite and biotite), trace multicoloured lithics, fair to good inferred porosity, no fluorescence.	0	0
	5	**SANDY SILTSTONE:** as above		
1290 to 1300	95	**SIDERITIC SANDSTONE:** as above	0	0
	5	**SANDY SILTSTONE:** as above		
1300 to 1310	80	**SIDERITIC SANDSTONE:** medium to dark yellowish brown, loose to friable, minor firm, clear to translucent and occasionally very light grey quartz grains, very fine to lower medium, mainly lower fine, poorly to moderately sorted, angular to sub rounded, 15-30% quartz silt,15-25% siderite(?) cement in part, 15-20% dusky yellowish brown siderite nodules, 5% argillaceous content, 5-10% dark green glauconite, trace-1% mica (muscovite and biotite), trace multicoloured lithics, fair to good inferred porosity, no fluorescence.	0	0

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Well Name :	BALEEN-3	Print Date	Wed 05/06/2002
Wellsite Geologist(s) :	Peter Boothby Ross Tolliday		

Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
	20	**SANDY SILTSTONE:** dark yellowish brown to dark brown, dusky yellowish brown, soft to very soft in parts, sub-blocky, 15-25% very fine quartz, trace to 10% siderite content, 10-15% argillaceous matrix, trace to 2% glauconite, trace mica, trace nodular and disseminated pyrite.		
1310 to 1320	50	**SIDERITIC SANDSTONE:** as above	0	0
	30	**CLAYSTONE :** medium grey to medium olive grey, occasionally dark olive grey, greenish grey in parts, soft to firm, amorphous to sub blocky, 5-10% micrite content, trace forams, 10-15% quartz silt to very fine sand, 3-5% very fine to fine pelloidal glauconite.		
	20	**SANDY SILTSTONE:** as above		
1320 to 1330	75	**CLAYSTONE :** medium grey to medium olive grey, rare dark olive grey, greenish grey in parts, soft to firm, amorphous to sub blocky, 10-15% micrite content, trace forams, 10-15% quartz silt to very fine sand, 10-15% very fine to fine pelloidal glauconite, grades to Galuconitic Claystone.	6	0
	20	**SANDY SILTSTONE:** as above		
	5	**SIDERITIC SANDSTONE:** as above		
1330 to 1340	85	**CLAYSTONE :** light to medium grey, rare medium olive grey, soft to firm, amorphous to sub blocky, 10-20% micrite content, trace forams, 10-15% quartz silt to very fine sand, 5-10% very fine to fine pelloidal glauconite, grades to Clacreous Claystone.	8	0
	10	**SANDY SILTSTONE:** as above		
	5	**SANDSTONE :** as above		
1340 to 1352	85	**CLAYSTONE :** as above	12	0
	10	**SANDY SILTSTONE:** as above		
	5	**SANDSTONE :** as above		

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OMV AUSTRALIA

Cuttings Descriptions Report

Well Name :	BALEEN-3 (ST1)	**Print Date**	Wed 05/06/2002
Wellsite Geologist(s) :	Peter Boothby Ross Tolliday		

Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
1136 to 1140	70	**SILTY SANDSTONE:** medium to dark yellowish brown, clear to translucent quartz grains, loose, common firm aggregates, dominantly loose to friable, silt size to fine grained, rare medium grained, dominantly very fine to fine, poor to moderately sorted, angular to subrounded, 15-25% quartz silt, 5-10% argillaceous (sideritic(?)) content, trace micromica, trace dark green glauconite, trace-2% disseminated and nodular pyrite, trace multicoloured lithics, fair inferred porosity.	0	0
	20	**SANDSTONE :** very light grey, clear to translucent, loose to firm aggregates, fine to medium, trace coarse quartz grains, poorly to moderately sorted, subangular to subrounded, minor white argillaceous (kaolin) matrix..		
	10	**CLAYSTONE :** dark grey to greyish black, soft to firm , sub blocky to sub fissile, trace -10% quartz silt, trace to commonly carbonaceous .		
1140 to 1150	100	**ARGILLACEOUS SANDSTONE:** medium yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose to rare hard aggregates, dominantly loose, silt size to fine grained, rare medium grained, dominantly very fine to fine, poor to moderately sorted, angular to subrounded, 10-15% quartz silt, 20-30% argillaceous content, suspect clays being dispersed in mud, trace to minor sideritic cemented aggregates and nodules, trace to 2% micromica (biotite and muscovite), trace dark green glauconite, trace feldspar, trace disseminated pyrite, trace multicoloured lithics, Poor to fair inferred porosity.	0	0
1150 to 1160	100	**ARGILLACEOUS SANDSTONE:** as above	0	0
1160 to 1170	100	**ARGILLACEOUS SANDSTONE:** medium yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose to rare hard aggregates, dominantly loose, silt size to fine grained, rare medium grained, dominantly very fine to fine, moderately sorted, angular to subrounded, 10-15% quartz silt, 10-20% argillaceous content, suspect clays being dispersed in mud, trace to minor sideritic cemented aggregates and nodules, trace to 2% micromica (biotite and muscovite), trace dark green glauconite, trace feldspar, trace disseminated pyrite, trace multicoloured lithics, fair to good inferred porosity.	0	0
1170 to 1180	100	**SANDSTONE :** medium yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose, fine to rare medium grained, dominantly very fine to fine, moderately sorted, angular to subrounded, 10-15% quartz silt, 10-15% argillaceous content, suspect clays being dispersed in mud, trace sideritic cemented aggregates and nodules, trace to 2% micromica (biotite and muscovite), trace dark green glauconite, trace feldspar, trace disseminated pyrite, trace multicoloured lithics, fair to good inferred porosity.	0	0
1180 to 1190	100	**SANDSTONE :** as above	0	0
1190 to 1200	100	**SILTY SANDSTONE:** as above, 20-25 quartz silt, locally moderately strong patchy siderite cement, and siderite nodules, fair to godd inferred porosity.	0	0
1200 to 1210	100	**SILTY SANDSTONE:** Medium to dark yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose, minor hard aggregates, dominantly loose to friable, silt size to fine grained, rare medium grained, dominantly very fine to fine, poor to moderately sorted, angular to subrounded, 15-25% quartz silt, 5-10% argillaceous (sideritic) content, trace to minor siderite cemented aggregates and nodules, trace to 1%	0	0

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Well Name :	BALEEN-3 (ST1)	Print Date	Wed 05/06/2002
Wellsite Geologist(s) :	Peter Boothby Ross Tolliday		

Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		micromica (biotite and muscovite), trace to 1% dark green glauconite, trace feldspar, trace disseminated and nodular pyrite, trace multicoloured lithics, good inferred porosity.		
1210 to 1220	100	**SILTY SANDSTONE:** as above, trace to 1% loose clear to translucent medium to coarse quartz grains, trace to 2% dark green glauconite. Good inferred porosity.	0	0
1220 to 1230	100	**SILTY SANDSTONE:** Medium yellowish brown, dusky yellowish brown, medium olive grey, clear to translucent quartz grains, loose, silt size to fine grained, dominantly very fine to fine, poor to moderately sorted, angular to subrounded, 15-25% quartz silt, 5-10% argillaceous content, trace to 2% micromica (biotite and muscovite), trace to 2% dark green glauconite, trace feldspar, trace disseminated and nodular pyrite, trace multicoloured lithics, good inferred porosity.	0	0
1230 to 1240	100	**SILTY SANDSTONE:** as above	0	0
1240 to 1250	100	**SILTY SANDSTONE:** Medium yellowish brown, dusky yellowish brown, medium olive grey, clear to translucent quartz grains, loose, silt size to fine grained, dominantly very fine to fine, poor to moderately sorted, angular to subrounded, 15-25% quartz silt, 5-10% argillaceous content, trace to 2% micromica (biotite and muscovite), trace to 2% dark green glauconite, trace feldspar, tr-5% disseminated and nodular pyrite, trace multicoloured lithics, good inferred porosity.	0	0
1250 to 1260	100	**SILTY SANDSTONE:** as above, with minor siderite cemented aggregates, trace to 3% dark green galuconite, trace to 2% nodular pyrite, fair to good inferred porosity.	0	0
1260 to 1270	100	**SILTY SANDSTONE:** as above	0	0
1270 to 1280	90 10	**SILTY SANDSTONE:** Medium yellowish brown, dusky yellowish brown, light to medium olive grey, clear to translucent quartz grains, loose, silt size to fine grained, dominantly fine, moderately sorted, angular to subrounded, 15-25% quartz silt, 5-10% argillaceous content, trace to 2% micromica (biotite and muscovite), trace to 1% dark green glauconite, trace feldspar, tr-1% disseminated and nodular pyrite, trace multicoloured lithics, good inferred porosity. **SANDY SILTSTONE:** dark yellowish brown to dark brown, dusky yellowish brown, soft to firm, sub-blocky, 15-25% very fine quartz, trace to 5% siderite content, 10-15% argillaceous matrix, trace glauconite, trace mica, trace nodular and disseminated pyrite.	0	0
1280 to 1290	80 20	**SILTY SANDSTONE:** as above **SANDY SILTSTONE:** as above	0	0
1290 to 1300	80 20	**SILTY SANDSTONE:** as above **SANDY SILTSTONE:** as above	0	0
1300 to 1310	90 10	**SILTY SANDSTONE:** light to medium yellowish brown, dusky yellowish brown, light to medium olive grey, clear to translucent quartz grains, loose, silt size to fine grained, dominantly fine, moderately sorted, angular to subrounded, 15-25% quartz silt, 5-10% argillaceous content, trace to 2% micromica (biotite and muscovite), trace to 1% dark green glauconite, trace feldspar, tr-1% disseminated and nodular pyrite, trace multicoloured lithics, good inferred porosity. **SANDY SILTSTONE:** as above	0	0

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Well Name :	BALEEN-3 (ST1)	Print Date	Wed 05/06/2002
Wellsite Geologist(s) :	Peter Boothby Ross Tolliday		

Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
1310 to 1320	90	**SILTY SANDSTONE:** as above	0	0
	10	**SANDY SILTSTONE:** as above		
1320 to 1330	90	**SILTY SANDSTONE:** dominantly as above with increasing argllaceous content, grading to Argillaceous Sandstone.	0	0
	10	**SANDY SILTSTONE:** as above		
1330 to 1340	90	**SILTY SANDSTONE:** as above	0	0
	10	**SANDY SILTSTONE:** as above		
1340 to 1350	90	**SILTY SANDSTONE:** light to medium yellowish brown, dusky yellowish brown, light to medium olive grey, clear to translucent quartz grains, loose, silt size to fine grained, dominantly fine, moderately sorted, angular to subrounded, 15-25% quartz silt, 5-10% argillaceous content, trace to 2% micromica (biotite and muscovite), trace to 1% dark green glauconite, trace feldspar, tr-1% disseminated and nodular pyrite, trace multicoloured lithics, good inferred porosity.	0	0
	10	**SANDY SILTSTONE:** dark yellowish brown to dark brown, dusky yellowish brown, soft to firm, sub-blocky, 15-25% very fine quartz, trace to 5% siderite content, 10-15% argillaceous matrix, trace glauconite, trace mica, trace nodular and disseminated pyrite.		
1350 to 1360	95	**SILTY SANDSTONE:** as above, trace medium quartz grains	0	0
	5	**SANDY SILTSTONE:** as above		
1360 to 1370	95	**SILTY SANDSTONE:** light to medium yellowish brown, dusky yellowish brown, light to medium olive grey, clear to translucent quartz grains, loose, silt size to fine grained, trace medium, dominantly fine, moderately sorted, angular to subrounded, 15-25% quartz silt, 5-10% argillaceous content, trace to 2% micromica (biotite and muscovite), trace dark green glauconite, trace feldspar, tr-1% disseminated and nodular pyrite, trace multicoloured lithics, good inferred porosity.	0	0
	5	**SANDY SILTSTONE:** as above		
1370 to 1380	95	**SILTY SANDSTONE:** as above	0	0
	5	**SANDY SILTSTONE:** as above		
1380 to 1390	95	**SILTY SANDSTONE:** light to medium yellowish brown, dusky yellowish brown, light to medium olive grey, clear to translucent quartz grains, loose, silt size to fine grained, trace medium, dominantly fine, moderately sorted, angular to subrounded, 15-25% quartz silt, 5-10% argillaceous content, trace to 2% micromica (biotite and muscovite), trace -2% dark green glauconite, trace feldspar, tr-1% disseminated and nodular pyrite, trace multicoloured lithics, good inferred porosity.	0	0
	5	**SANDY SILTSTONE:** as above		
1390 to 1400	95	**SILTY SANDSTONE:** as above, 2-4% fine to medium dark green glauconite		
	5	**SANDY SILTSTONE:** as above		
1400 to 1410	95	**SILTY SANDSTONE:** light to medium yellowish brown, dusky yellowish brown, light to medium olive grey, clear to translucent quartz grains, loose, silt size to fine grained, trace medium, dominantly fine, moderately sorted, subangular to subrounded, 15-25% quartz silt, 5-10% argillaceous	0	0

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Well Name :	BALEEN-3 (ST1)	Print Date	Wed 05/06/2002
Wellsite Geologist(s) :	Peter Boothby Ross Tolliday		

Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		content, trace to 2% micromica (biotite and muscovite), 2-4% fine to medium dark green glauconite, trace feldspar, trace disseminated and nodular pyrite, trace multicoloured lithics, good inferred porosity. Grades to Sandstone		
	5	**SANDY SILTSTONE:** dark yellowish brown to dark brown, dusky yellowish brown, soft to firm, sub-blocky, 15-25% very fine quartz, trace to 5% siderite content, 10-15% argillaceous matrix, trace glauconite, trace mica, trace nodular and disseminated pyrite.		
1410 to 1420	95	**SILTY SANDSTONE:** as above, trace to 2% fine dark green glauconite	0	0
	5	**SANDY SILTSTONE:** as above		
1420 to 1430	95	**SILTY SANDSTONE:** light to medium yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose, minor hard cemented aggregates, trace pyrite cement, silt size to fine grained, trace medium, dominantly fine, moderately sorted, subangular to subrounded, 15-25% quartz silt, 5-10% argillaceous content, trace to 2% micromica (biotite and muscovite), 1-3% fine to medium dark green glauconite, trace feldspar, trace -3% disseminated and nodular pyrite, trace multicoloured lithics, good inferred porosity. Grades to Sandstone	0	0
	5	**SANDY SILTSTONE:** as above		
1430 to 1440	100	**SANDSTONE :** light to medium yellowish brown, light to medium olive grey, clear to translucent quartz grains, loose, silt size to fine grained, trace medium, dominantly fine, moderately sorted, subangular to subrounded, 10-15% quartz silt, trace to 5% argillaceous content, clays washing out, trace to 1% micromica (biotite and muscovite), trace-1% dark green glauconite, trace feldspar, trace disseminated and nodular pyrite, trace multicoloured lithics, good inferred porosity.	0	0
1440 to 1450	100	**SANDSTONE :** as above,5-10% argillaceous content	0	0
1450 to 1460	100	**SANDSTONE :** as above	0	0
1460 to 1470	100	**SANDSTONE :** as above	0	0
1470 to 1480	100	**SANDSTONE :** light yellowish brown, lightolive grey, clear to translucent quartz grains, loose, silt size to fine grained, trace medium, dominantly fine, moderately sorted, subangular to subrounded, 10-15% quartz silt, trace to 5% argillaceous content, trace to 2% micromica (biotite and muscovite), trace-2% dark green glauconite, trace feldspar, trace disseminated and nodular pyrite, trace multicoloured lithics, very good inferred porosity.	0	0
1480 to 1490	100	**SANDSTONE :** light to medium yellowish brown, light olive grey, clear to translucent quartz grains, loose, rare firm to hard siderite cemented aggregates, silt size to fine grained, trace medium, dominantly fine, moderately sorted, subangular to subrounded, 10-15% quartz silt, trace to 5% argillaceous content, trace to 2% micromica (muscovite), 1-3% dark green glauconite, trace feldspar, trace disseminated and nodular pyrite, trace multicoloured lithics, very good inferred porosity.	0	0
1490 to 1500	100	**SANDSTONE :** light to medium yellowish brown, light olive grey, clear to translucent quartz grains, loose, silt size to fine grained, trace medium, dominantly fine, moderately sorted, subangular to subrounded, 10-15% quartz silt, trace to 5% argillaceous content, clay washing out, 1 to 3% micromica (muscovite), 2-4% dark green glauconite, nil to trace feldspar, nil to trace disseminated pyrite, trace multicoloured lithics, very good inferred porosity.	0	0

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Well Name :	BALEEN-3 (ST1)	Print Date	Wed 05/06/2002
Wellsite Geologist(s) :	Peter Boothby Ross Tolliday		

Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
1500 to 1510	100	**SANDSTONE :** as above	0	0
1510 to 1520	100	**SANDSTONE :** as above, decreasing glauconite, decreasing mica	0	0
1520 to 1530	100	**SANDSTONE :** light to medium yellowish brown, light olive grey, clear to translucent quartz grains, loose, silt size to fine grained, trace medium, dominantly fine, moderately sorted, subangular to subrounded, 5-10% quartz silt, 5-10% argillaceous content, clay washing out, trace to 1% micromica (muscovite), trace to 1% dark green glauconite, nil to trace feldspar, nil to trace disseminated pyrite, trace multicoloured lithics, very good inferred porosity.		
1530 to 1540	100	**SANDSTONE :** as above	0	0
1540 to 1550	100	**SANDSTONE :** as above	0	0
1550 to 1555	100	**SANDSTONE :** light to medium yellowish brown, light olive grey, clear to translucent quartz grains, loose, silt size to fine grained, trace medium, dominantly fine, moderately sorted, subangular to subrounded, 5-10% quartz silt, 5-15% argillaceous content, clay washing out, trace to 1% micromica (muscovite), trace to 1% dark green glauconite, nil to trace feldspar, trace disseminated pyrite, trace multicoloured lithics, very good inferred porosity.		

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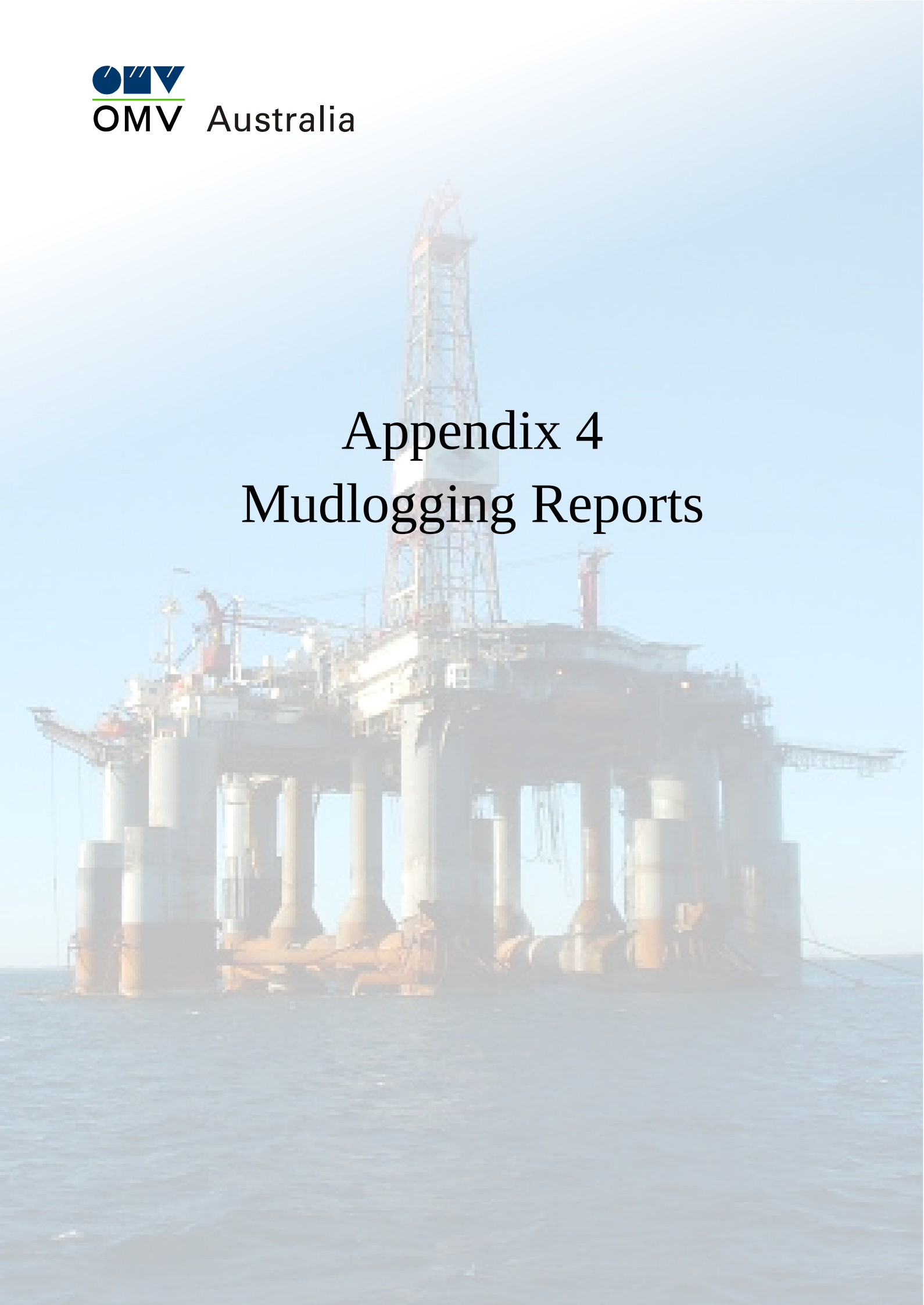
OMV Australia



Appendix 4
Mudlogging Reports

INTEQ

END OF WELL REPORT

OMV Australia

BALEEN-3, BALEEN-3-ST1

24th May 2002 – 04th June 2002

by

BAKER HUGHES INTEQ

The information, interpretations, recommendations, or opinions contained herein are advisory only and may be rejected. Consultant does not warrant their accuracy or correctness. Nothing contained herein shall be deemed to be inconsistent with, nor expand, modify or alter consultants obligation of performance as provided for in a written agreement between the parties, or, if none, in consultant's most recent price list.

Baleen-3, Baleen-3-ST1

Final Well Report

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SECTION 1

WELL SUMMARY

1 Well Data Summary

Well Name	Baleen-3, Baleen-3-ST-1
Rig Name:	MODU Ocean Bounty
Rig Type:	Semi-submersible
Drilling Contractor:	Diamond Offshore General Company
Drilling Datum:	Rotary Table
Drill Floor Elevation:	25.0m above LAT
Water Depth:	52.5m LAT
Surface Coordinates: Baleen-3	 038º 00' 20.99" S Lat 148º 26' 34.42." E Long
Block:	VIC/L21
Well Type:	Field Development
Spud Date:	24th May 2002
Total Depth:	1352m Baleen-3 1555m Baleen-3-ST1
TD Date:	04th June 2002
Well Status:	Completed & Tested

Baker Hughes INTEQ Crew:

Data Engineers:	Romeo Tena Jamie McLeod Jeff Wilson
Logging Geologists:	Elaine Spence Trent Liang Malcolm Dixon

1.1 Well Summary

The Baleen-3 well is located in VIC/L21 approximately 115 NM direction from Eden, 140NM from Port Welshpool and 285 NM from Geelong. The purpose of the well is to produce gas from the Baleen gas reservoir. The objectives of the well are to confirm the modeled reservoir structure, provide wellbore access to the reservoir, obtain open hole logging information, estimate reservoir pressures, determine deliverability / inflow performance, and to obtain reservoir gas samples. All depths in this report unless otherwise stated refer to depths in metres below the rotary table – RT.

Baleen-3 was spudded on the 24th of May 2002, using a 26" bit with a 36" hole opening assembly, in 52.5m of water. The 36" hole was drilled from the seabed to 112m using seawater and pre-hydrated gel mud. A 30" x 20" casing was run and set successfully at 112m.

The 17.5" section was drilled using a Security DBS type XTIC bit in tandem with a mud motor and LWD tool assembly. The cement and shoe track was cleaned out and 224m of new hole was drilled. At the section TD of 336m, the hole was displaced to gel mud and the 13.375" casing set at 327.4m. The Sub-Sea Tree was run and landed on the wellhead. The SST was pressure tested with failure of the AX gaskett connector. The SST was pulled out and the rig moved off location whilst troubleshooting the problem. The SST was then re-run, landed and tested. The AX gaskett connector again failed the pressure test. Fluorescent dye was pumped and the leak was found to be internal. The BOPs were then run, landed and tested successfully.

Drilling of the 12.25" hole section commenced from 336m using a Reed MHT13GC rock bit on a steerable assembly including LWD tools and was completed in 2 bit runs to 871m. The first bit run was drilled with KCL/PHPA/Glycol mud from 336m to 458m, sliding and rotating as required. As the assembly was not building angle quickly enough the angle of the motor was changed from 1.15º to 1.5º. Drilling 12.25" hole continued from 458m to 514m, where the bit was then pulled back to 443m and reamed down through a 7.73 degree dogleg to 488m to try and reduce the angle. This process was repeated without success. The bit was run back to bottom and drilling continued from 514m, rotating and sliding as required, to a section total depth of 871m. A maximum gas peak of 23.3% was recorded and the well was circulated until the gas returned to its background level of 0.2% – 0.3%, and the mud weight increased to 1.15sg. A wiper trip was performed to 320m before the bit was run back in to 726m and the hole washed and reamed from 726m to 871m. After spotting a 50bbls high viscosity pill on bottom the bit was pulled back to 800m where bottoms up was circulated and a maximum wiper trip gas of 17.5% was recorded, once again circulation continued until the gas levels were reduced to background levels. After a flowcheck the bit was pulled out of the hole and preparations were made to run the 9.635" casing. The 9.625" casing was run and landed at 866.1m.

The 8.5" hole section was drilled using a Reed EHP41ALKDH rock bit on a steerable assembly including LWD tools. The mud system used was FLO-PRO NT with weights from 1.13sg to 1.17sg. After cleaning out the shoe track new hole was drilled, sliding and rotating as required, to 919m where power failed to the Top drive and the bit was pulled back to the shoe while repairs took place. Once back on bottom the 8.5" hole was drilled ahead horizontally to a Total Depth for Baleen-3 of 1352m. Maximum gas through this section was 15.64%. After reaching TD the hole was circulated clean and backreamed to 1050m. The hole was then reamed down at 50m/hr for a repeat LWD logging run to 1200m before pulling out.

Baleen-3 ST1

This section was drilled using the same BHA and mud system, with weights from 1.17sg to 1.19sg, as the Baleen-3 8.5" hole section. The open hole sidetrack was kicked off at 1137m and drilled ahead, sliding and rotating as required to remain in the reservoir, to a total depth of 1555m. Once at TD the hole was circulated clean before backreaming to the shoe. The bit was then run back to bottom and the hole once again circulated clean. Before pulling out to 760m, 190bbls of FLO-PRO SF were spotted on bottom. At 760m the hole was displaced to KCl and the bit pulled out of the hole and preparation for completion and testing begun.

SECTION 2

DRILLING & ENGINEERING

2.1 Bit Run Summaries

Baleen-3

36" Hole Section
24th May 2002

Bit Run No. 1 Summary

Bit Number	1
Bit Size	26” 36” Hole Opener
Bit Type	Smith DSJC
IADC	111
S/N	KW0659
Jets	1 x 17, 3 x 24
Depth In (m)	77.5
Depth Out (m)	112
Metres Drilled	34
On Bottom Drilling Hrs	1.0
TBR (krevs)	5.6
Rotating Hours	1.5
Average ROP (m/hr)	34.0
API Condition	1-1-WT-A-1-IN-NO-TD

Drilling Parameters

WOB (klbs)	1.0	-	9.1
RPM	54	-	87
Torque (kft-lbs).	0.1	-	1.9
Pump Pressure (psi)	505	-	1073
Flow In (gpm)	419	-	1072

Mud System

Seawater & hi-viscosity Gel Sweeps	1.03sg

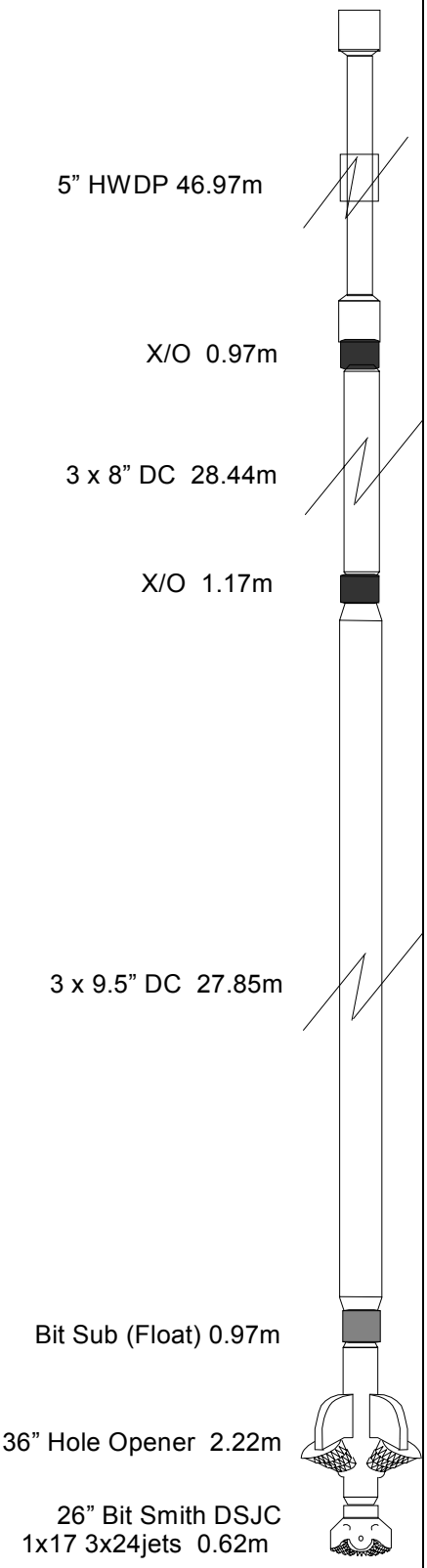
Lithology

Returns to seabed

Drilling Summary

NB1, a 26” bit with a 36” hole opener was made up on a rotary BHA. The bit tagged seabed at 77.5m. Baleen-3 was spudded at 14:00hrs on the 24th of May 2002. The 36” hole was drilled to 111.5m with seawater, spotting 100bbls hi-vis mud at TD. A wiper trip was conducted to just below the sea floor. On the way back to bottom, two metres of fill were cleared and half a metre of new formation was drilled to 112m.The hole was then displaced with 200bbls PHG mud. The BHA was then pulled out of hole to run the 30” casing.

BHA No. 1 109.21 m



17.5" Hole Section
25th May 2002

Bit Run No. 2 Summary

Bit Number	NB 2
Bit Size	17.5
Bit Type	Sec DBS XTIC
IADC	115
S/N	740844
Jets	3 x 24
Depth In (m)	112
Depth Out (m)	336
Metres Drilled	224
On Bottom Drilling Hrs	4.1
TBR (krevs)	41.4
Rotating Hours	7.3
Average ROP (m/hr)	54.6
API Condition	1-1-WT-A-E-IN-BU-TD

Drilling Parameters

WOB (klbs)	0	-	18.2
RPM	41	-	195
Torque (kft-lbs)	2	-	3
Pump Pressure (psi)	1012	-	2034
Flow In (gpm)	719	-	1018

Mud System

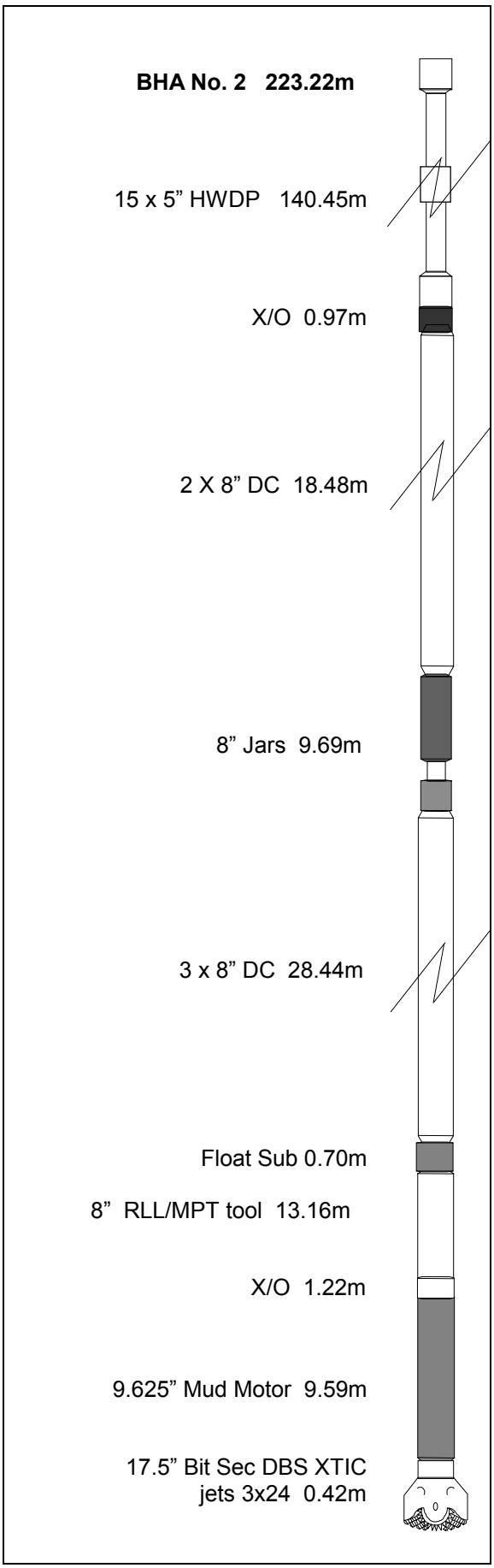
Seawater & hi-viscosity Gel Sweeps 1.03sg

Lithology

Returns to seabed

Drilling Summary

NB2, a 17.5” bit was made up on a mud motor and LWD tool and RIH. Cement was tagged and drilled out at 109m. After cleaning out the shoe track, NB2 drilled new formation using seawater and high viscosity gel sweeps. The section was drilled smoothly while building angle to the programmed inclination. At the section TD of 336m, the hole was swept with a 100-bbl high viscosity sweep and 320bbls PHG spotted in hole prior to pulling out to run casing. The hole was in good condition and preparations were made to run the 13.375” casing.



12.25" Hole Section
29th – 31st May 2002

Bit Run No. 3 Summary

Bit Number	NB 3
Bit Size	12.25
Bit Type	REED MHT13GC
IADC	117
S/N	NL5006
Jets	3 x 15, 1 x 24
Depth In (m)	336
Depth Out (m)	458
Metres Drilled	122
On Bottom Drilling Hrs	2.1
TBR (krevs)	27.0
Rotating Hours	7.5
Average ROP (m/hr)	58.1
API Condition	Not Graded

Drilling Parameters

WOB (klbs)	0.4	-	13.6
RPM	173	-	272
Torque (kft-lbs)	0	-	3
Pump Pressure (psi)	1033	-	1586
Flow In (gpm)	667	-	834

Mud System

KCl / PHPA / Glycol 1.06sg

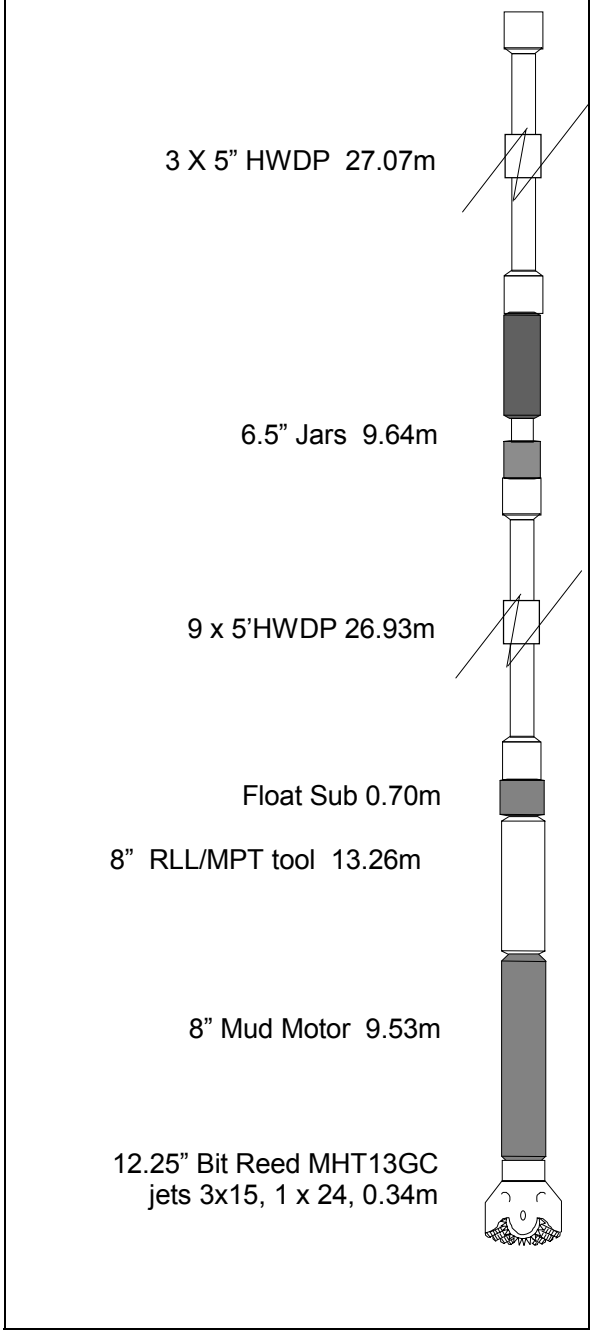
Lithology

Calcarenite & Calcilutite

Drilling Summary

NB3, a 12.25” rock bit was made up on to a mud motor and LWD tool and RIH. Cement was tagged and drilled out at 298.4m. After cleaning out the shoe track, NB3 drilled 4m of new formation and the mud system was displaced to 1.06sg MW KCl/PHPA/Glycol mud. The hole was circulated clean and a FIT performed yielding a result of 1.74sg EMW. The 12.25” directional hole was drilled ahead sliding and rotating as required from 340m to 458m. After a flowcheck the bit was POOH due to the hole angle not building quickly enough. At surface the angle of the motor was changed from 1.15 degrees to 1.5 degrees.

BHA No. 3 88.46m



Bit Run No. 3.1 Summary

Bit Number	RR 3.1
Bit Size	12.25
Bit Type	REED MHT13GC
S/N	NL5006
Jets	3 x 15, 1 x 24
Depth In (m)	458
Depth Out (m)	871
Metres Drilled	393
On Bottom Drilling Hrs	15.9
TBR (krevs)	229.3
Rotating Hours	33.7
Average ROP (m/hr)	26.0
API Condition	1-2-WT-G-E-1-NO-TD

Drilling Parameters

WOB (klbs)	4.0	-	41.8
RPM	52	-	288
Torque (kft-lbs)	-	-	-
Pump Pressure (psi)	1443	-	2030
Flow In (gpm)	759	-	835

Mud System

KCl / PHPA / Glycol 1.06-1.15sg

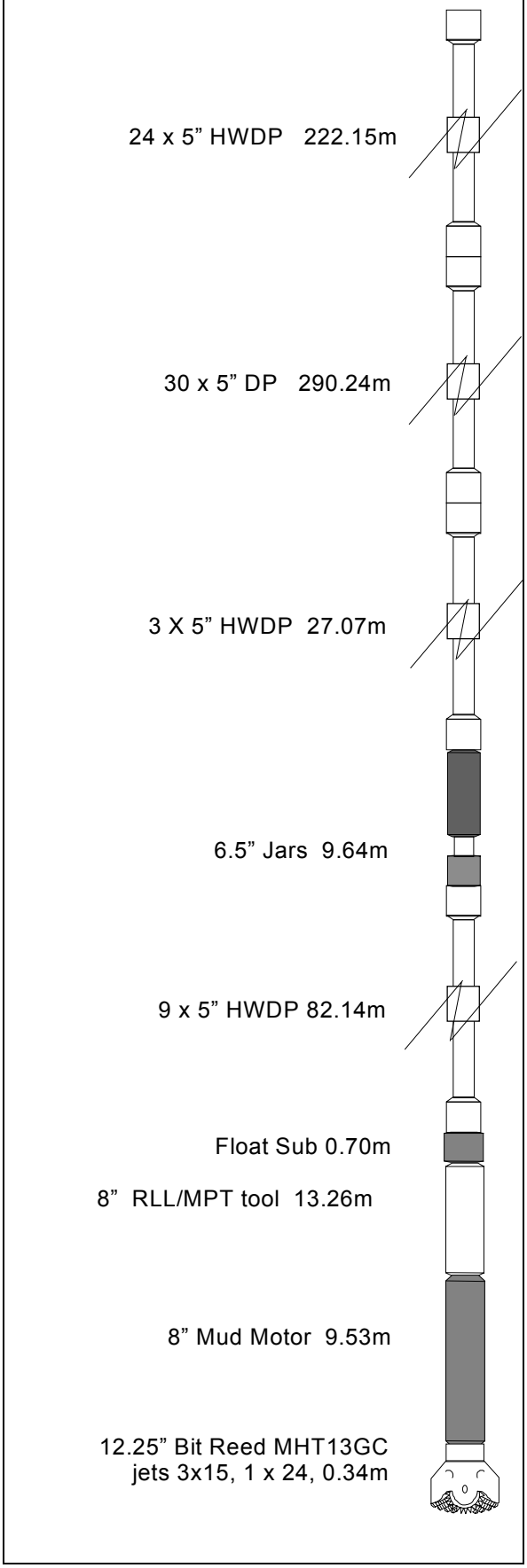
Lithology

Calcarenite & Calcilutite

Drilling Summary

RR3.1, was run back in after the mud motor angle was changed from 1.15 degrees to 1.5 degrees. The bit was run back to bottom with the last stand circulated to bottom. Drilling 12.25" hole continued from 458m to 514m. The bit was then pulled back to 443m and reamed down through a 7.73 degree dogleg to 488m. The bit was run back to bottom and drilling continued from 514m to 855m rotating and sliding as required. At 855m drilling was halted to circulate out a 9% gas peak. Drilling continued from 855m to section total depth of 871m. A maximum gas peak of 21% was recorded and the well was circulated until the gas returned to its background level of 0.2% – 0.3%. Whilst circulating the mud weight was increased to 1.15sg. The bit was pulled back to 800m and the hole circulated. A wiper trip to the shoe was performed pumping out from 800 – 450m and pulling out from 450m to 320m. The bit was run in to 726m and washed and reamed from 726m to 871m. A 50bbls high viscosity pill was spotted on bottom and the bit pulled back to 800m. Bottoms up was circulated and a maximum wiper trip gas of 17.5% was recorded, circulation continued until the gas levels were reduced to background levels. After a flowcheck the bit was pulled out of the hole and preparations were made to run the 9.625" casing.

BHA No. 4 656.04m



8.5" Hole Section
1st - 3rd June 2002

Bit Run No. 4 Summary

Bit Number	NB 4
Bit Size	8.5
Bit Type	REED EHP41ALKDH
IADC	417
S/N	M25484
Jets	3 x 14
Depth In (m)	871
Depth Out (m)	1352
Metres Drilled	481
On Bottom Drilling Hrs	16.6
TBR (krevs)	170.2
Rotating Hours	42.6
Average ROP (m/hr)	29.0
API Condition	1-1-WT-A-E-I-NO-LOG

Drilling Parameters

WOB (klbs)	0.6	-	33.7
RPM	84	-	208
Torque (kft-lbs)	-	-	-
Pump Pressure (psi)	959	-	2594
Flow In (gpm)	373	-	607

Mud System

FLO - PRO 1.13-1.17sg

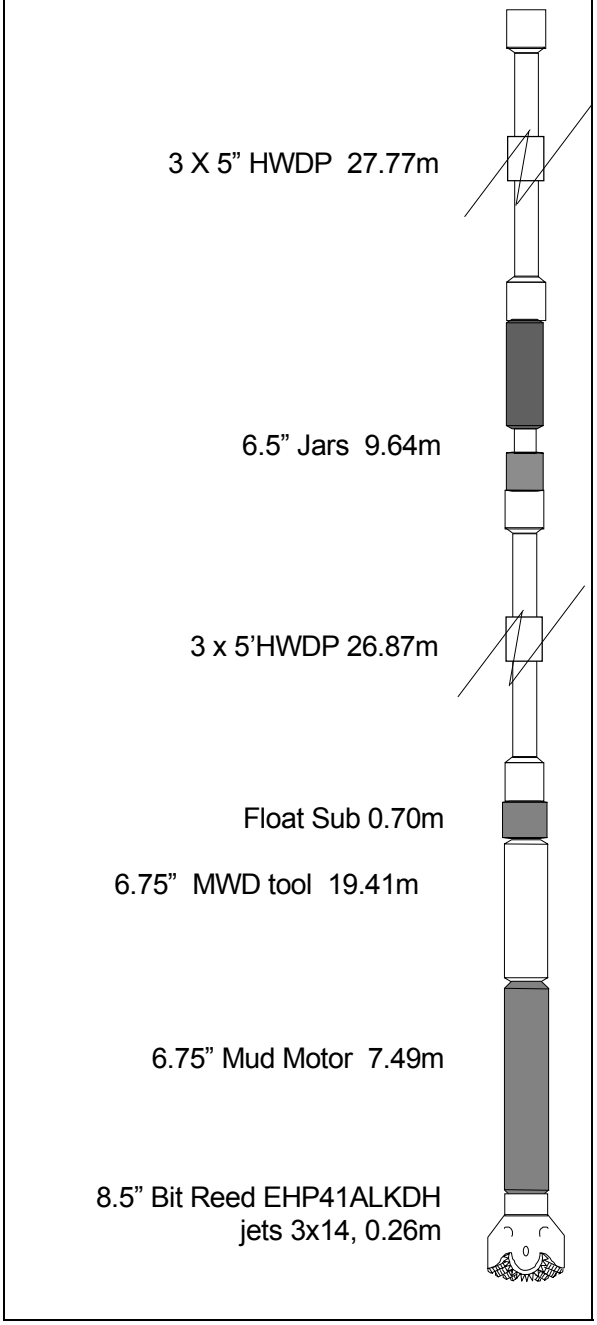
Lithology

Sandstone, Silty Sandstone, Siltstone & Calcareous Claystone

Drilling Summary

NB4, an 8.5" rock bit was made up on to a mud motor and LWD tool and RIH. Cement was tagged and drilled out at 842m. After cleaning out the shoe track, NB4 drilled 2m of new formation to 873m and the mud system was displaced to 1.13sg MW FLO - PRO mud. The hole was circulated clean and a FIT performed yielding a result of 1.41sg EMW. The 8.5" directional hole was drilled ahead sliding and rotating as required from 873m to 919m. Power to the top drive failed at this point and the bit was pulled back into the shoe, whilst the problem was repaired. After repairs the bit was run back to bottom and drilling ahead horizontally continued from 919m to 1100m where drilling was halted to circulate samples up. Drilling then continued from 1100m to a Total Depth for Baleen-3 of 1352m. Whilst drilling gas remained high with a maximum of 15.64% seen at 1278m. Gas levels dropped to less than 0.3% after 1320m. The mud weight was increased to a maximum of 1.17sg from 1100m. At T.D. the hole was circulated clean before the bit was backreamed to 1050m. The bit was reamed down from 1050m at 50m/hr for a repeat MWD section to 1200m. The bit was then POOH and the MWD data downloaded.

BHA No. 5 92.14m



Baleen-3-ST1

8.5" Hole Section
3rd - 4th June 2002

Bit Run No. 4.1 Summary

Bit Number	NB 4.1
Bit Size	8.5
Bit Type	REED EHP41ALKDH
S/N	M25484
Jets	3 x 14
Depth In (m)	1137
Depth Out (m)	1555
Metres Drilled	418
On Bottom Drilling Hrs	17.6
TBR (krevs)	172.5
Rotating Hours	35.7
Average ROP (m/hr)	23.8
API Condition	1-2-LT-G-E-I-NO-TD

Drilling Parameters

WOB (klbs)	1.9	-	49.1
RPM	134	-	207
Torque (kft-lbs)	-	-	-
Pump Pressure (psi)	2288	-	2615
Flow In (gpm)	558	-	609

Mud System

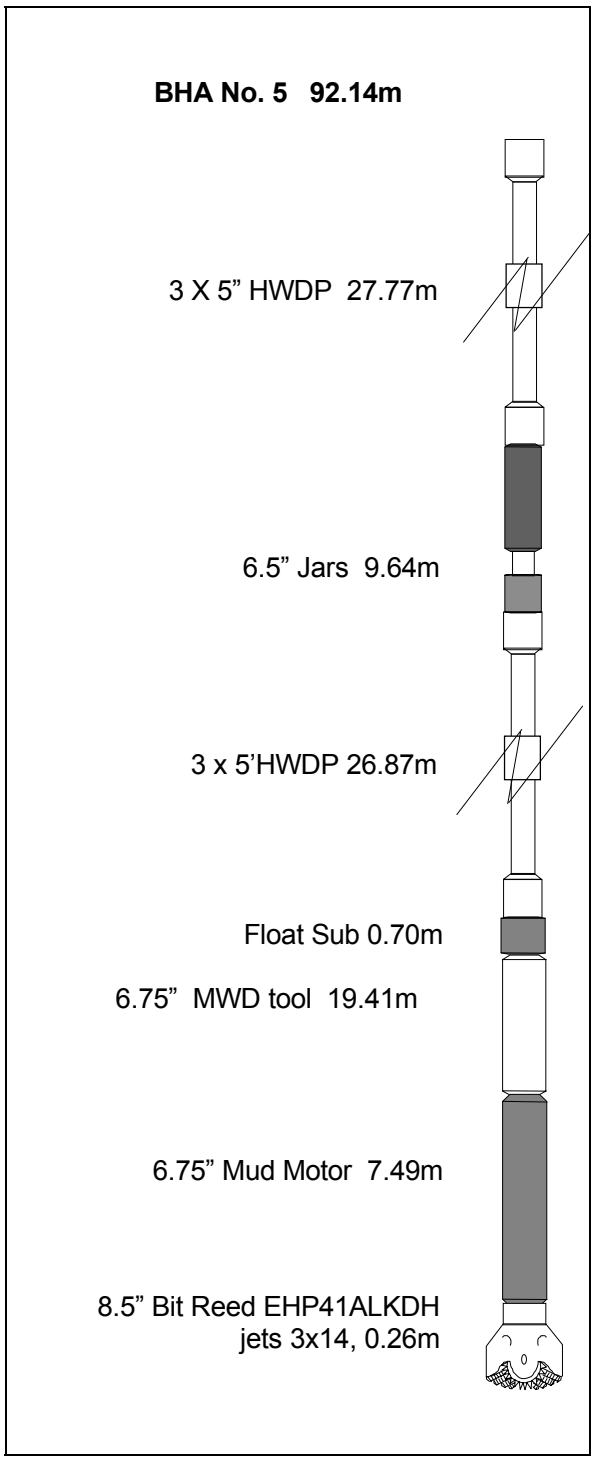
FLO - PRO 1.17-1.19

Lithology

Sandstone & Silty Sandstone

Drilling Summary

An open hole sidetrack was kicked of at 1137m in the 8.5" hole section of Baleen-3. The same bit was re-run in the hole on the same BHA. The 8.5" directional hole was drilled ahead from 1137m sliding initially for 7m and then rotating and sliding to build or lose angle to stay within the reservoir. The hole was drilled to a total depth of 1555m taking MWD surveys every stand. At TD the hole was circulated clean and after a flow check the bit was backreamed to the shoe at 866m. The bit was run back to bottom and the hole was circulated clean. Twenty barrels of brine were then pumped followed by 190bbls of FLO-PRO, which was spotted on bottom. After a flowcheck the bit was then pulled out to 760m. 25bbls high viscosity pill, 50bbls of wash pill and 25bbls of brine spacer were pumped. The hole was then displaced to KCl. A flowcheck was performed and the bit was pulled out of the hole.
The MWD tool was downloaded and preparations for the completion and testing phase of the well started.



2.2 Casing / Cementing Summary

30" Conductor

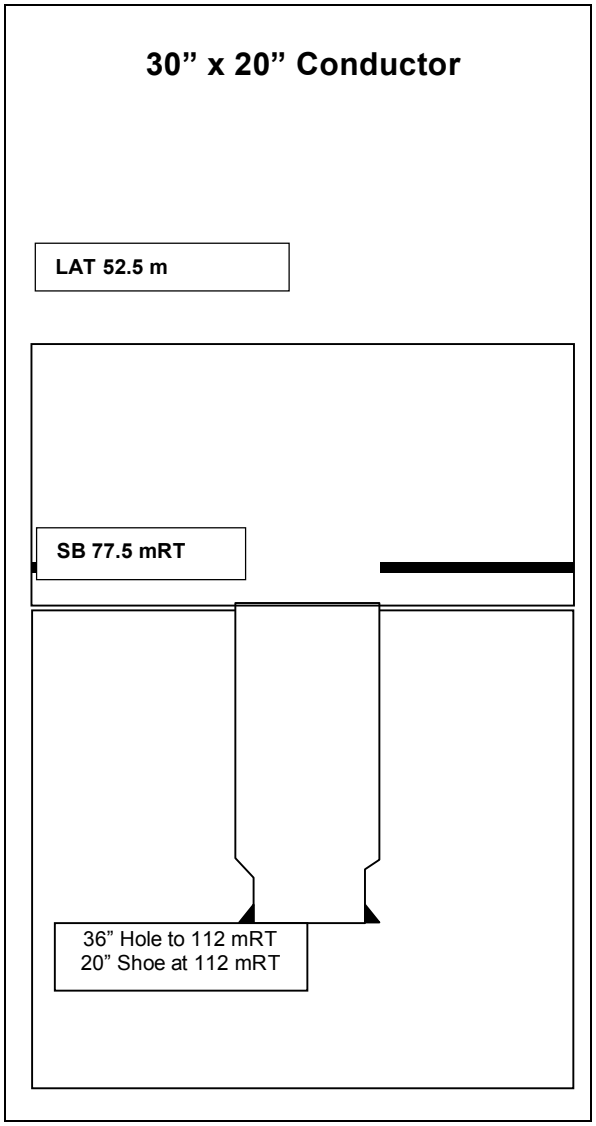
25th May 2002

Hole Size	36”
Depth	112m
Casing	1 30” x 20” Shoe joint 1 30” Intermediate Joint 1 x 30” Well Head
ID	27”/28” 18.75”
Weight	310 lb/ft
Grade	X-52 x 30”, K55 x 20
Shoe Depth	112m

Cement Details:

Sacks	772
Type	Class “G”
Mixwater	92 bbls
Additives	1% CaCl
Weight	15.8 ppg
Volume	160 bbls

Summary
The 3 joints of 30”x20” casing and PGB were run in and landed as per programme. The PGB slope indicator showed 1º to starboard with the top of the 30” wellhead at 76.2m, 1.3m above seabed. The casing was cemented with 160 bbls of 1.9 sg (15.8 ppg) slurry, made up of 772 sacks of class “G” cement .



13.375" Casing

26th May 2002

Hole Size	17.5”
Depth	336m

Casing	1 x Shoe Joint 1 x Intermediate Joint 1 x Float collar joint 16 x13.375” Casing K-55, 68ppf 1 x 13.375” No Cross Coupling 1 x 18.75” Hsg/20”exten/swage/ 13.375” pup
ID	12.452"
Weight	68 lb/ft
Grade	K-55
Shoe Depth	327.37m

Cement Details:

Lead Slurry

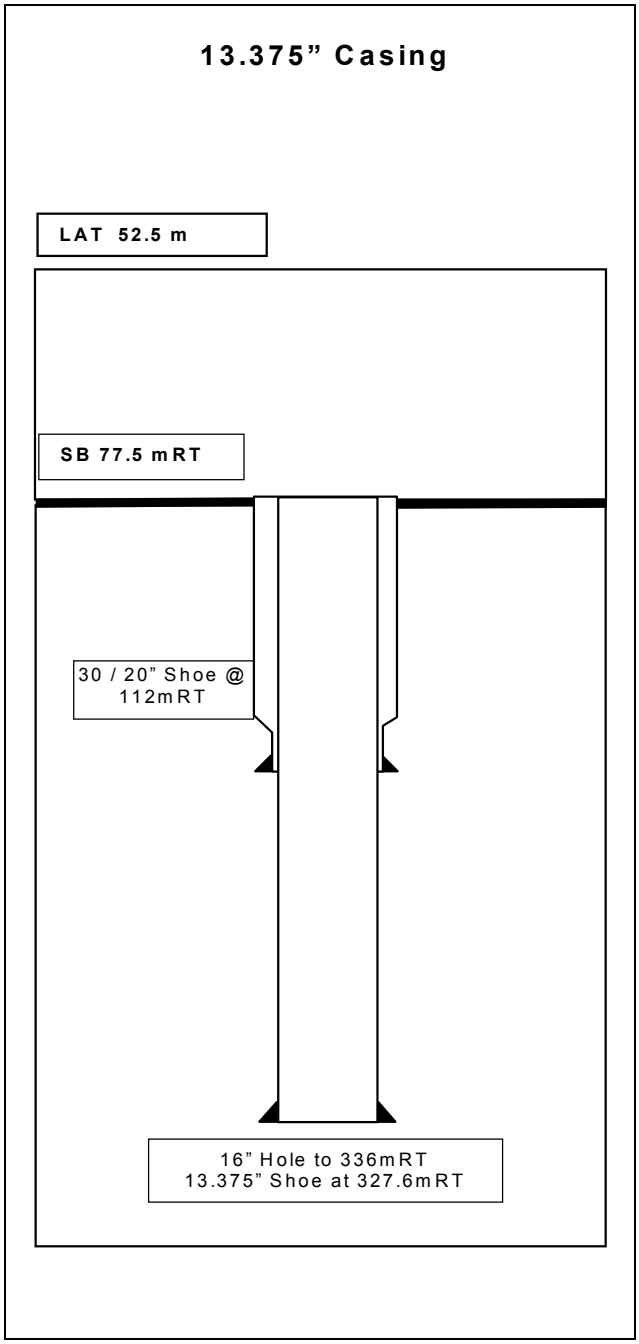
Sacks	242
Type	Class "G"
Mixwater	75.6 bbls (seawater)
Additives	151 gal Econolite
Weight	12.5 ppg (1.5 sg)
Yield	2.23 cuft/sx
Volume	95 bbls

Tail Slurry

Sacks	488
Type	Class "G"
Additives	0.25 gal/sx NF-1
Weight	15.8 ppg (1.9 sg)
Yield	1.17 cuft/sx
Volume	107 bbls

Summary

Ran 13 3/8" casing and landed and latched the Cameron 18 3/4" WellHead in the 30" housing on the 2nd try with 80klbs down weight. Circulated 180bbls seawater @ 90 strokes, rigged cement lines and pumped 10bbl seawater before pressure testing to 3000psi, dropped the ball and displaced with 10bbls seawater. No shear off of bottom plug was seen. Mixed and pumped 95bbls lead slurry and 102bbls tail slurry and displaced released the dart and displaced with 108bbls seawater at 9bbls/min. The top plug released at 2500psi. Reduced displacement rate to 4bbls/min, 10bbls short of calculated displacement and bumped the plug with 500psi over final displacement pressure of 350psi - 850psi. Raised pressure to 2500psi and observed a leak - bleed off with a view to retesting the casing after the stack has been run. Released the running tool and recovered the landing string.



9.625" Casing

31st May 2002

Hole Size	12.25”
Depth	336m

Casing	1 x Shoe Joint w/- BBL reamer 1 x Intermediate Joint 1 x Float collar joint 58 x 9.625” Casing NK3SB, 47ppf 1 x 9.625” X/O pup joint 1 x 9.625” casing hanger
ID	8.75"
Weight	47lb/ft
Grade	NK3SB
Shoe Depth	866.1m

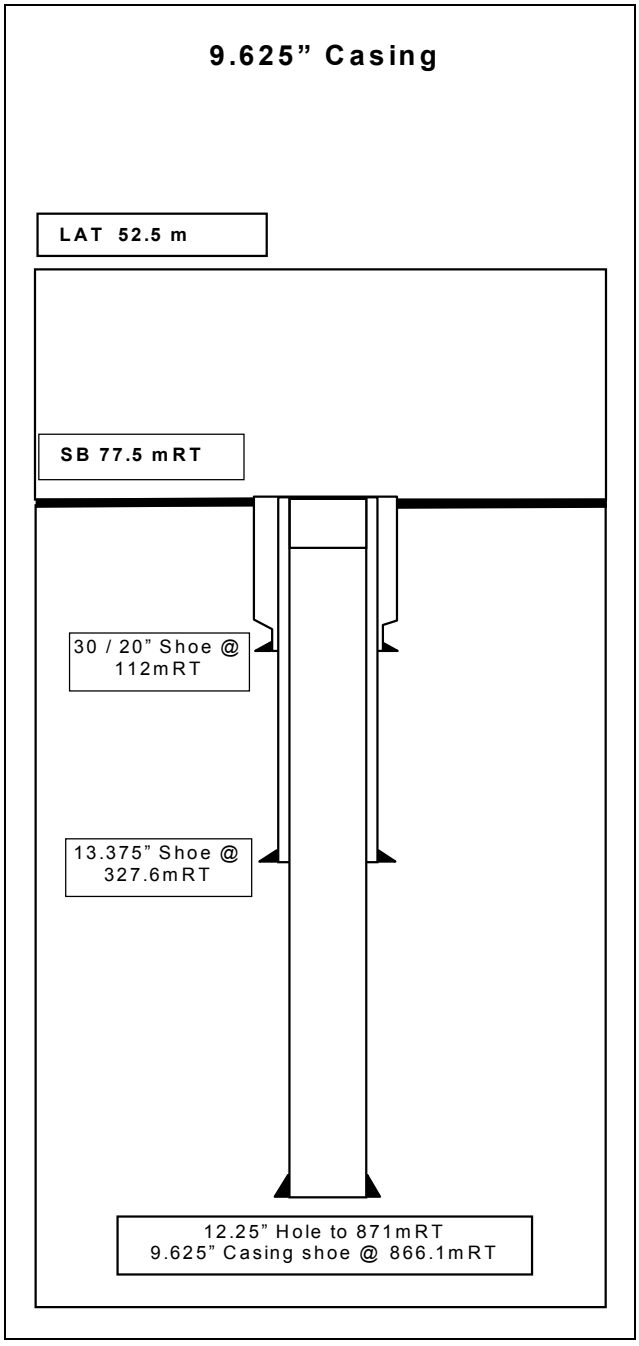
Cement Details:

Slurry

Sacks	408
Type	Class "G"
Mixwater	50bbls (drill water)
Additives	HR6L
	NF-1
Weight	15.8ppg (1.9sg)
Yield	1.16 cuft/sx
Volume	84bbls

Summary

The 9.625" casing was run and landed successfully encountering no hole problems. 1.5 times casing volume (320bbls) was circulated. 10bbls of seawater was pumped and the cement lines pressure tested to 3,000psi. 60bbls of Super flush 102 and 10bbls seawater was pumped before dropping the bottom launching plug and shearing it with 1160psi. The tail slurry was then mixed and pumped with 408sx of 'G' Grade cement, making 84bbls of cement slurry @ 1.89sg. The top launching dart was dropped and sheared at 2,400psi. The cement unit displaced with 10bbls. The rig pumped 180bbls and bumped the plug with a circulating pressure of 350psi. The bump was tested to 850psi. The cement unit then pressure tested the casing to 3,000psi for 10 min.



SECTION 3

SURVEY

Baleen-3 Surveys

Measured Depth m	Inclination deg	Azimuth deg	Tool Type	Dogleg dptm	Vertical Depth	Vertical Section	Position North	Position East
118.1	0.9	164.57	MWD	0.67	118.1	-0.39	1.29	-0.42
145.74	1.33	154.26	MWD	0.51	145.73	-0.27	0.79	-0.22
174.04	1.83	179.78	MWD	0.9	174.02	0.03	0.05	-0.07
201.81	2.85	194.07	MWD	1.26	201.77	0.8	-1.07	-0.24
231.73	5.26	207.31	MWD	2.57	231.61	2.56	-3.01	-1.05
259.73	5.99	213.87	MWD	1.04	259.48	5.05	-5.36	-2.45
288.58	7.82	237.78	MWD	3.51	288.12	8.41	-7.66	-4.95
314.31	9.93	237.31	MWD	2.46	313.54	12.38	-9.79	-8.3
358.49	12.81	236.62	MWD	1.95	356.85	21.09	-14.54	-15.6
387.27	15.75	239.15	MWD	3.14	384.74	28.18	-18.3	-21.62
412.4	19.47	239.2	MWD	4.44	408.69	35.76	-22.2	-28.15
440.15	22.86	238.19	MWD	3.68	434.56	45.77	-27.41	-36.7
467	29.9	237.39	MWD	7.87	458.6	57.68	-33.77	-46.78
494.43	34.3	236.43	MWD	4.85	481.83	72.25	-41.73	-58.99
522.74	38.61	235.9	MWD	4.58	504.6	89.07	-51.1	-72.96
551.5	43.05	236.97	MWD	4.69	526.35	107.86	-61.49	-88.62
579.58	44.26	237.77	MWD	1.42	546.67	127.24	-71.94	-104.95
607.86	48.21	238.45	MWD	4.22	566.23	147.64	-82.72	-122.29
635.94	50.25	237.31	MWD	2.37	584.56	168.88	-94.03	-140.3
664.58	52.51	236.35	MWD	2.5	602.44	191.25	-106.27	-159.02
693.11	56.48	236.02	MWD	4.19	619	214.47	-119.2	-178.31
722.38	60.67	235.89	MWD	4.29	634.26	239.45	-133.18	-199.01
751.25	65.86	235.69	MWD	5.4	647.24	265.22	-147.67	-220.32
780.38	70.04	235.69	MWD	4.31	658.17	292.21	-162.89	-242.62
807.6	74.32	234.67	MWD	4.83	666.5	318.12	-177.68	-263.89
838.16	76.3	234.61	MWD	1.95	674.25	347.68	-194.79	-287.99
871	80.13	235.16	MWD	3.53	680.96	-213.27	-314.29	379.81
892	86.39	235.63	MWD	8.97	683.42	-225.11	-331.44	400.66
922	90.25	235.91	MWD	3.87	684.3	-241.98	-356.23	430.64
949	91.82	236.21	MWD	1.78	683.82	-257.05	-378.63	457.63
979.95	92.21	236.89	MWD	0.76	682.73	-274.09	-404.44	488.56
1007.76	91.2	236.35	MWD	1.24	681.9	-289.39	-427.65	516.35
1034.8	92.15	236.73	MWD	1.14	681.11	-304.29	-450.2	543.38
1062.41	92.5	237.85	MWD	1.28	679.99	-319.2	-473.41	570.95
1082.33	92.24	238.35	MWD	0.84	679.17	-329.72	-490.31	590.84
1089.5	92.11	237.8	MWD	2.38	678.9	-333.5	-496.39	598
1115.3	92.07	238.42	MWD	0.73	677.96	-347.13	-518.28	623.75
1144.85	92.56	239.09	MWD	0.84	676.76	-362.44	-543.52	653.24
1170.02	93.23	239.47	MWD	0.92	675.49	-375.28	-565.13	678.32
1197.69	93.74	240.02	MWD	0.81	673.81	-389.2	-588.99	705.87
1226.26	91.73	238.86	MWD	2.44	672.44	-403.7	-613.56	734.34
1256.76	89.3	236.89	MWD	3.08	672.17	-419.92	-639.39	764.81
1285.13	90.07	235.48	MWD	1.7	672.33	-435.71	-662.96	793.18
1314.2	89.29	235.9	MWD	0.91	672.49	-452.1	-686.97	822.25
1343.52	88.48	235.79	MWD	0.83	673.06	-468.55	-711.22	851.56

Baleen-3-ST1 Surveys								
Measured Depth m	Inclination deg	Azimuth deg	Tool Type	Dogleg dg/100ft	Vertical Depth	Section Increment	Position North	Position East
1115.3	92.07	238.42	TIE-IN	0.73	677.96	-347.13	-518.28	623.75
1144.52	88.97	238.34	MWD	3.18	677.7	-362.55	-543.09	652.94
1172.55	87.37	237.92	MWD	1.77	678.59	-377.34	-566.88	680.93
1200.16	89.59	236.55	MWD	2.83	679.33	-392.28	-590.09	708.52
1228.4	90.6	236.71	MWD	1.09	679.28	-407.81	-613.67	736.75
1256.83	88.41	235.98	MWD	2.44	679.53	-423.57	-637.33	765.18
1285.69	84.01	235.9	MWD	4.58	681.43	-439.69	-661.18	793.97
1315.04	80.72	234.58	MWD	3.62	685.34	-456.27	-685.08	823.05
1344.21	77.95	233.45	MWD	3.07	690.74	-473.11	-708.28	851.7
1372.91	75.34	232.29	MWD	2.97	697.36	-489.96	-730.54	879.59
1401.48	78.05	232.4	MWD	2.85	703.94	-506.94	-752.55	907.34
1430.81	81.58	231.28	MWD	3.78	709.13	-524.78	-775.24	936.14
1459.63	85.35	232	MWD	4	712.4	-542.54	-797.69	964.7
1488.63	89.87	231.93	MWD	4.67	713.61	-560.39	-820.5	993.61
1517.26	93.8	232.08	MWD	4.12	712.7	-578	-843.05	1022.16
1546.19	95.32	232.23	MWD	1.58	710.4	-595.69	-865.82	1050.95

SECTION 4

GEOLOGY & SHOWS

4.1 GEOLOGY AND SHOWS

Baleen-3

Geological logging for Baleen-3 commenced below the 13.375" casing shoe (set at 327.6m) from 336m to the total depth of 1352m.

During the course of the well, all gas equipment was checked and calibrated regularly, and spot samples were taken at drilling breaks and other changes in drilling parameters to better assess lithological change.

The lithology of Baleen-3 is described below. For more detailed descriptions, see Appendix 1: Formation Evaluation Log.

SAMPLE INTERVALS

336 – 340	4m
340 – 350	5m
350 – 370	10m
370 – 380	5m
380 – 480	10m
480 – 490	5m
490 – 510	10m
510 – 650	5m
650 – 700	10m
700 – 740	5m
740 – 760	10m
760 – 770	5m
770 – 790	10m
790 – 800	5m
800 – 840	10m
840 – 970	5m
970 – 1000	10m
1000 – 1045	5m
1045 – 1055	10m
1055 – 1130	5m
1130 – 1340	10m
1340 – 1352TD	12m

36” HOLE SECTION

Seabed to 112mBRT: Returns to Seabed

17.5” HOLE SECTION

112m to 336mBRT: Returns to Seabed

12.25” HOLE SECTION

336m to 871mBRT:

FORMATION DESCRIPTIONS:

336m to 715m: CALCARENITE, CALCILUTITE and ARGILLACEOUS CALCILUTITE

CALCARENITE: Very light grey to medium light grey, medium grey, yellowish grey, occasional dark grey. Soft to friable, firm, moderately hard to hard, very fine to very coarse grained, angular to subrounded,

very poorly sorted to poorly sorted with a calcilutite matrix, calcite cement and trace pyrite cement, and containing common fossil fragments, trace to minor Foraminifera, trace crystalline calcite, trace pyrite, trace to rare glauconite and trace chert.

CALCILUTITE: Very light grey to light grey, medium grey. Soft to firm, amorphous to subblocky, with minor to trace fossil fragments, trace Foraminifera and trace glauconite.

ARGILLACEOUS CALCILUTITE : Very light grey to light grey, occasionally medium grey. Soft to firm, amorphous to subblocky, with common fossil fragments, rare glauconite, trace Foraminifera and trace silt.

No oil shows were observed in this interval.

The section from 336 to 715m was drilled with an average ROP of 52.1m/hr and ranged from 2.8m/hr to 257.2m/hr. The calcimetry values for this interval ranged from 40-84% calcite with an average of 65% calcite. No dolomite was recorded.

Total Gas %	C_1 ppm	C_2 ppm	C_3 ppm	iC_4 ppm	nC_4 ppm	iC_5 ppm	nC_5 ppm
0.00-0.20	0-1468	-	-	-	-	-	-

715m to 835m: ARGILLACEOUS CALCILUTITE, MARL and CALCAREOUS CLAYSTONE

ARGILLACEOUS CALCILUTITE: Light grey to medium light grey, occasionally medium grey. Soft, dispersive, amorphous, sub-blocky to blocky with trace fossil fragments, trace glauconite and trace pyrite. Grading to CALCAREOUS CLAYSTONE in places.

MARL: Very light grey to medium light grey. Soft, dispersive, amorphous to sub-blocky.

CALCAREOUS CLAYSTONE: Medium light grey, medium grey to medium dark grey. Soft to firm, amorphous to subblocky, occasionally blocky with trace glauconite.

No oil shows were observed in this interval.

The section from 715 to 835m was drilled with an average ROP of 43.9m/hr and ranged from 11.7m/hr to 152.1m/hr. The calcimetry values for this interval ranged from 22-44% calcite with an average of 30% calcite. No dolomite was recorded.

Total Gas %	C_1 ppm	C_2 ppm	C_3 ppm	iC_4 ppm	nC_4 ppm	iC_5 ppm	nC_5 ppm
0.08-0.51	608-3898	-	-	-	-	-	-

835-871m SILTY SANDSTONE and interbedded CLAYSTONE

CLAYSTONE: Light olive grey to medium light grey, occasionally very light grey and dark yellowish brown. Soft to firm, amorphous to subblocky with common glauconite pellets, trace Foraminifera, trace iron nodules, trace mica flakes, trace disseminated pyrite and trace very fine sand grains. Grading to SILTY CLAYSTONE in places.

SILTY SANDSTONE: Light greyish brown, dark yellowish orange. Very fine to fine, subrounded. Hard aggregates, rare loose grains, well sorted with a common silty matrix, common glauconite pellets, trace mica flakes, trace iron nodules, trace pyrite cement and trace Foraminifera. Trace to good visible porosity.

No oil shows were observed in this interval.

The section from 835m to 871m was drilled with an average ROP of 55.1m/hr and ranged from 21.4m/hr to 181.5m/hr. The calcimetry values for this interval ranged from 2-10% calcite with an average of 6% calcite. No dolomite was recorded.

Total Gas %	C_1 ppm	C_2 ppm	C_3 ppm	iC_4 ppm	nC_4 ppm	iC_5 ppm	nC_5 ppm
0.26-22.75	1720-111859	-	-	-	-	-	-

8.5" HOLE SECTION

871m to 1352mBRT:

FORMATION DESCRIPTIONS:

871m-1097m SILTY SANDSTONE with minor interbedded SILTSTONE

SILTY SANDSTONE: Dusky brown to dusky yellowish brown, brownish black, light greyish brown, dark yellowish orange. Very fine to fine, occasionally coarse, subrounded to angular, subelongate to subspherical, hard aggregates, rarely loose grains, moderately well sorted to well sorted, with a common argillaceous silty matrix, common to rare glauconite pellets, rare to trace glauconite flakes, trace mica flakes, trace iron nodules, trace pyrite cement and trace Foraminifera. Poor to good visible porosity.

SILTSTONE: Dusky brown to dusky yellowish brown, medium light grey. Soft to moderately hard, very hard, predominantly fissle occasionally amorphous with abundant siderite in places, common carbonaceous laminations, rare mica flakes, trace quartz grains and trace glauconite. Grading to SILTY SANDSTONE in places

No oil shows were observed in this interval.

The section from 871 to 1097m was drilled with an average ROP of 37.5/hr and ranged from 1.50m/hr to 95.7m/hr. No calcimetry analyses were made on this section.

Total Gas %	C_1 Ppm	C_2 ppm	C_3 Ppm	IC_4 Ppm	NC_4 Ppm	iC_5 ppm	nC_5 ppm
0.04-10.28	52-75994	-	-	-	-	-	-

1097m-1154m SILTY SANDSTONE with minor SANDSTONE

SILTY SANDSTONE: Dusky brown to dusky yellowish brown, occasionally brownish black, clear to translucent quartz grains. Predominantly moderately hard to very hard aggregates, friable, occasionally loose, very fine to fine, subangular to subrounded, subelongate to subspherical, moderately well sorted with
trace siderite, trace disseminated pyrite, trace pyrite cement and trace mica flakes. Poor inferred porosity.

SANDSTONE: Trace to 5%. Clear to translucent quartz grains, coarse to very coarse, subrounded to rounded, spherical, loose, well sorted. Good inferred porosity, no fluorescence.

No oil shows were observed in this interval.

The section from 1097 to 1154m was drilled with an average ROP of 49.40/hr and ranged from 8.10m/hr to 71.8m/hr. No calcimetry analyses were made on this section.

Total Gas %	C_1 ppm	C_2 ppm	C_3 ppm	IC_4 ppm	NC_4 ppm	iC_5 ppm	nC_5 ppm
0.16-10.29	979-72723	-	-	-	-	-	-

1154m-1320m SILTY SANDSTONE with minor interbedded SILTSTONE

SILTY SANDSTONE: Dusky brown to dusky yellowish brown, occasionally brownish black, clear to translucent quartz grains. Predominantly moderately hard to very hard aggregates, occasionally loose, friable, very fine to fine, subangular to subrounded, subelongate to subspherical, moderately well sorted with trace siderite, trace disseminated pyrite, trace pyrite cement, trace mica flakes. Poor inferred porosity.

SILTSTONE: Medium yellow brown to dark yellow orange, dusky brown to dusky yellowish brown, medium light grey. Soft to moderately hard, very hard, predominantly fissile, occasionally amorphous with abundant siderite in places, common carbonaceous laminations, rare mica flakes, trace quartz grains, trace glauconite. Grading to SILTY SANDSTONE in places.

No oil shows were observed in this interval.

The section from 1154 to 1320m was drilled with an average ROP of 48.20m/hr and ranged from 11.80m/hr to 100.40m/hr. Calcimetry through this section showed zero calcite and dolomite.

Total Gas %	C_1 Ppm	C_2 ppm	C_3 Ppm	IC_4 Ppm	NC_4 Ppm	iC_5 ppm	nC_5 ppm
0.39-15.55	3136-96433	-	-	-	-	-	-

1320m-1352m CALCAREOUS CLAYSTONE

CALCAREOUS CLAYSTONE: Yellow grey, very light grey to medium light grey. Amorphous to subblocky, with minor glauconite pellets, trace Foraminifera and trace pyrite.

No oil shows were observed in this interval.

The section from 1320 to 1352m was drilled with an average ROP of 28.6/hr and ranged from 5.3m/hr to 44.6m/hr. The calcimetry values for this interval ranged from 6-8% calcite, no dolomite was recorded.

Total Gas %	C_1 ppm	C_2 ppm	C_3 ppm	IC_4 ppm	NC_4 ppm	iC_5 ppm	nC_5 ppm
0.12-0.34	845-2881	-	-	-	-	-	-

Baleen-3 ST1

Geological logging for Baleen-3 ST1 commenced below the kick off point of 1137m to the wells total depth of 1555m.

During the course of the well, all gas equipment was checked and calibrated regularly, and spot samples were taken at drilling breaks and other changes in drilling parameters to better assess lithological change.

The lithology of Baleen-3 ST1 is described below. For more detailed descriptions, see Appendix 1: Formation Evaluation Log.

SAMPLE INTERVALS

1137-1140	3m
1140 – 1550	10m
1550-1555TD	5m

8.5" HOLE SECTION

1137m to 1555mBRT:

FORMATION DESCRIPTIONS:

1137m to 1240m: SANDSTONE with minor Interbedded SILTSTONE

SANDSTONE: Moderate yellowish brown to dark yellowish brown, brownish grey. Clear to translucent quartz grains, very fine to fine, occasionally medium grained, moderately hard to friable aggregates, subangular, subspherical, moderately well sorted containing common glauconite pellets, rare mica flakes, trace pyrite cement, trace siderite, trace Foraminifera and trace fossil fragments. Poor inferred porosity.

SILTSTONE: Dusky brown to dusky yellowish brown, medium light grey in places. Soft, amorphous with rare mica flakes, trace very fine quartz grains and trace glauconite. Grading to SILTY SANDSTONE in places.

No oil shows were observed in this interval.

The section from 1137 to 1240m was drilled with an average ROP of 58.7m/hr and ranged from 1.3m/hr to 121.2m/hr. Calcimetry through this section showed zero calcite and dolomite.

Total Gas %	C_1 ppm	C_2 ppm	C_3 ppm	iC_4 ppm	NC_4 Ppm	iC_5 ppm	nC_5 ppm
0.03-14.31	300-103901	-	-	-	-	-	-

1240m to 1555m: SANDSTONE

SANDSTONE: Moderate yellowish brown to dark yellowish brown, brownish grey. Clear to translucent quartz grains, very fine to fine, loose, occasionally moderately hard to friable aggregates, silty matrix, angular to subrounded, subspherical to subelongate, moderately well sorted containing trace to abundant glauconite pellets, trace glauconite flakes, trace to rare mica flakes, trace pyrite cement, trace siderite, trace Foraminifera and trace fossil fragments. Fair to good inferred porosity.

No oil shows were observed in this interval.

The section from 1240 to 1555m was drilled with an average ROP of 36.4m/hr and ranged from 1.9m/hr to 98.2m/hr. Calcimetry through this section showed zero calcite and dolomite.

Total Gas %	C_1 ppm	C_2 ppm	C_3 ppm	iC_4 ppm	nC_4 ppm	iC_5 ppm	nC_5 ppm
0.03-8.48	1794-58150	-	-	-	-	-	-

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Shipping Manifest

OMV: Baleen-3, Baleen-3-ST1

From: BHI Unit 503
Location: ***Ocean Bounty***
Telephone: 08 9221 6200

Shipped in Container No: C010

SAMPLE TYPE	**No. Of Sets**	**COMPOSITION**			**PACKING DETAILS**
		Sample Box No.	**Depth Interval (m) From**	**To**	
Baleen-3 **Sets A,B,C,D,E:** **Washed & Air Dried Samples (100 g)**	5	1 2 3 4 5 6 7 8	336 500 610 730 865 965 1085 1200	500 610 730 865 965 1085 1200 1352	Small boxes 1 - 8 packed in one Big Box for each set. 5 Large Boxes (total)
Balleen-3 ST1 **Sets A,B,C,D,E:** **Washed & Air Dried Samples (100 g)**	5	1 2	1137 1330	1330 1555	Small boxes 1 - 2 for each set joined together, 5 sets in total.
Set F: Samplex Trays **Baleen-3** **Baleen-3 ST1**	 1 1	 1 1	 336 1137	 1352 1555	1 Wooden Box
Set G: Baleen-3 and ST1 **Mud Samples (8 samples),** **Drillwater (6 samples),** **Mud additives*,** **Filtrate (4 samples)**	1	1	336 1137	1352 1555	1 Large box
Set H: Misc paper work, logs and charts of Baleen-3 and ST1	1	1	-	-	1 Large box

***NOTE: Addition set of Mud additives sent to Mark Adamson, OMV, Perth.**

DISTRIBUTION	Destination & Address	Attention of:
Washed & Dried (100g) Set A	OMV Australia Pty Ltd Sample Store c/o Kestrel Information Management Pty Ltd 39 McDowell Street Welshpool WA 6106 Tel: 08-9350 3170 Fax: 08-9350 3179	**Attn: Barry Lloyd**
Washed & Dried (100g) Set B: AGSO	AGSO Data Repositories Cnr Jerrabomberra Avenue and Hindmarsh Drive Symonston ACT 2609 Tel: 02-6249 9222 Fax: 02-6269 9903	**Attn: Eddie Resiak**
Washed & Dried (100g) Set C: VDNRE	VDNRE Core and Cuttings Store South Rd Werribee, Vic 3030 03 9412 5055	**Attn:**
Washed & Dried (100g) Set D: TRINITY	Trinity Gas Resources Pty Ltd Level 9 Chancery House 37 St Georges Tce Perth, WA 6000 Tel: 08 9225 5078	**Attn: Tomoyuki Watanabe**
Washed & Dried (100g) Set E: Santos	SANTOS Level 8 Santos House 91 King William St Adelaide, SA, 5000 08 82247128	**Attn: Andy Pietsch**
Samplex Trays, Set F	OMV Australia Pty Ltd Sample Store c/o Kestrel Information Management Pty Ltd 39 McDowell Street Welshpool WA 6106 Tel: 08-9350 3170 Fax: 08-9350 3179	**Attn: Barry Lloyd**
Set G: Mud Samples, Drillwater sample, Mud Additives, Mud Filtrate Sample	ACS Laboratories Pty Ltd 8 Cox Road Windsor Brisbane QLD 4030 Tel: 07-3357 1133	**Attn: Ian Mangelsdorf**
Set H: OMV Misc paper work, logs and charts	OMV Australia Pty Ltd Sample Store c/o Kestrel Information Management Pty Ltd 39 McDowell Street Welshpool WA 6106 Tel: 08-9350 3170 Fax: 08-9350 3179	**Attn: Barry Lloyd**

SECTION 5

PRESSURE EVALUATION

5.1 Pore Pressure Evaluation

An average sea water density of 1.03 sg was assumed as the normal saline pressure gradient for all calculations for Baleen-3 and the sidetrack ST1. Using real time data, such as the hydrocarbon gas trend, lithology, flowline temperature, corrected Drilling Exponent (Dxc) data for conventional roller bits and constant drilling fluid parameters, pore pressure estimates were made during the drilling of Baleen-3/ST1. For more details, please refer to Appendix 3, "Pressure Summary Plot". All depths unless otherwise stated refer to the rotary table - RT.

36 / 26" Hole Section

The 36" hole was drilled from 77.5m to 112m. The section was short, characterised by unconsolidated sediments with returns dumped to the seabed. With an average penetration rate of about 34m/hr and low weight-on-bit, the plotted Dxc data curve contained widely scattered points. However, it is unlikely that pore pressure would have increased over this shallow interval. The pore pressure was estimated to be normal at 1.03 sg EMD down to 112m.

17.5" Hole Section

The 17.5" hole was drilled from 112m to 336m. The unconsolidated sediments at the upper section was represented by a wide scatter Dxc points ranging from 0.29 to 1.43 as the 'jetting action' of the bit washed the interval sediments away. Compact, harder sediments were drilled from 140m. The Dxc line from this depth showed a pattern typical of normally consolidated sediments with values ranging between 0.30 – 0.94. The Dxc trend scatter was normal, right leaning until the section total depth of 336m. The pore pressure of the 17.5" hole section was estimated to be normal at 1.03sg EMD.

12.25" Hole Section

The 12.25" directional hole section was drilled alternating between sliding and rotating from 336m to 871m with a tricone bit, allowing for some useful Dxc values to be obtained when drilling whilst rotating. The mud system used was a KCl/PHPA/Glycol mud with an initial weight of 1.06sg which was allowed to increase to 1.10sg by 800m. A normal Dxc trend was observed in the upper part of this section down to 730m. No other signs of abnormal pressure were noted with background gas levels remaining low at around 0.1 – 0.2%. A change in the Dxc trend occurred from 730m with the trend moving to the left, this could be due to the formation change at 727m however the Dxc values continued to trend leftwards through the new formation. At 797m a connection gas of 0.2% ABG was observed. The next connection at 826m gave a connection gas of 0.3%, no further connection gases could be confirmed due to the rise in formation gas levels from 839m to TD at 871m. The ditch gas levels ranged from 0.7% up to maximum of 23.3% at 859m with levels remaining high, above 10% to TD. The increase in formation gas levels was due to the target formation being penetrated at 841m. The leftward trending Dxc curve and the connection gases observed with a mud weight of 1.10sg would suggest that the formation pore pressure rose from 1.03sg at 730m to an estimated 1.09sg at 797m. The mud weight was increased to 1.15 sg after section TD.

8.5" Hole Section

The 8.5" hole section was drilled from 871m to 1352mRT as a horizontal hole at an angle between 86 – 94 degrees. Therefore very little vertical section was penetrated (approximately 15m) and drilling remained in the reservoir formation throughout. This formation was suggested to have a pore pressure gradient of 1.09sg in the previous hole section. No data collected in this hole section suggested any increase in pore pressure. Dxc values were of little or no use due to the high angle hole. Drilled gas levels were high throughout the section ranging between 0.3 – 15.55% with the larger peaks relating to faster rates of penetration. No connection or trip gases were seen and no evidence of pressure related cavings were recorded. The mud weight over the section ranged from 1.13 – 1.17sg at TD. With no other data available the pore pressure at TD is assumed to be a maximum of 1.09sg.

8.5" Hole Section Baleen-3-ST1

The 8.5” hole section was kicked off from 1137mRT. This hole section was drilled over a larger vertical hole section with the hole angle ranging between 75 to 96 degrees to a total depth of 1555mRT. Approximately 35m of vertical section was penetrated over the course of this section. No connection or trip gases were recorded and no other indications of increased pore pressure were seen. It is believed that the maximum pore pressure of this section is 1.09sg.

5.2 Fracture Pressure Evaluation

After drilling out the 13.375" casing shoe at 327.4m, rathole to 336m and 4m of new 12.25" hole to 340m on Baleen-3, a formation integrity test (FIT) was performed. The test was achieved with 317 psi surface pressure. The test was completed with 1.06 sg mud weight, giving an equivalent fracture pressure of 1.74sg EMW. This section was drilled with 1.06 to 1.10 sg mud weight, which produced an ECD of 1.08 to 1.13sg. These were much lower than the lowest calculated fracture pressure of 1.74 sg. No major losses were seen in this section and no signs of the fracture pressure being lower that that given in the FIT.

The 8.5" hole formation integrity test (FIT) at 866.1m using a 1.13sg mud yielded a formation strength of 1.41sg Equivalent Mud Weight. No downhole mud losses were seen whilst drilling this section. The mud weight increased from 1.13 - 1.17sg whilst drilling a total depth of 1352m. A maximum ECD of 1.39sg was recorded whilst drilling. This suggests that the fracture pressure of the formation remained high at a minimum of 1.46sg. The only mud losses in this section occurred at the surface, attributed primarily on the action of the shakers, the desilter and the desander.

The following is a summary of the Formation Integrity Tests conducted in this well:

Hole Diameter	Hole Depth	Casing	Shoe Depth	Pressure	Mud Weight	EMW
12.25"	336 m	13.375"	327.4m	317 psi	1.06 sg	1.74 sg
8.50"	871 m	9.625"	866.1m	286 psi	1.13 sg	1.41 sg

Baleen-3-ST1

The only difference for the 8.5'" hole section compared to Baleen-3 was that the mud weight reached 1.19sg and the ECD at TD (1555m) was 1.41sg. Again no mud losses were seen so the minimum fracture pressure of this section is estimated to be 1.46sg.

TABLES

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Bit Run Summary

Operator	Well Name	Location	Drilling Contractor	Rig
OMV Australia	**Baleen-3, Baleen-3-ST1**	**VIC/L21**	**Diamond Offshore**	**Ocean Bounty**

Bit No.	Bit Make, Type Serial No. / IADC Code	Bit Size *in*	Jets *x 1/32"*	TFA *in/2*	Depth In *m*	Depth Out *m*	Metres Drilled *Metres*	On Btm Hours Drilled *Hours*	ROP Avg *m/hr*	TBR *x1000*	Drilling parameter range									Grading									Remarks
											WOB *klbs*	SPP *psi*	RPM	Flow *gpm*	Jet Vel *m/sec*	DC/OH Vel *m/min*	MD *sg*	Bit Power *hhp*	Bit Loss *%*	I	O	D	L	B	G	O	R	
	36" Hole Section																												
NB1	Smith DSJC	26	1 x 17, 3 x 24	2.6607	77.5	111.5	34.0	1.0	34.0	5.6	1 - 9	835	54 - 87	865	39	7	1.03	80	32.3	-	-	-	-	-	-	-	-	36" Hole Section T.D.
	w/ 36" Hole Opener	36" HO, 4 x 22 jets																										
	17.5" Hole Section																												
NB2	Security DBS XT1C	17.5	3 x 24	1.3254	112.0	336	224.0	4.1	54.6	41.4	0 - 18	1552	41 - 195	912	75	36	1.03	277	38.3	1	1	BU	A	E	I	NO	TD	17.5" Hole Section T.D.
	740844																											
	12.25" Hole Section																												
NB3	Reed MHT 13GC	12.25	3 x 15, 1 x 24	0.9595	336	458	122	2.1	58.1	27.0	0 - 14	1278	173 - 272	770	85.0	-	1.06	298.6	43.3	-	-	-	-	-	-	-	-	POOH change motor angle
	NL 5006																											
RR3.1	Reed MHT 13GC	12.25	3 x 15, 1 x 24	0.9595	458	871	413	15.9	26.0	229.3	4 - 42	1718	52 - 288	799	85.1	-	1.10	310.9	32.3	1	2	WT	G	E	1	NO	TD	12.25" Hole Section T.D.
	NL 5006																											
	8.5" Hole Section																												
NB4	Reed EHP41ALKDH	8.50	3 x 14	0.4510	871	1352	481	16.6	29.0	170.2	1-34	2154	84 - 208	607	131.6	-	1.13-	575.1	72.8	1	1	WT	A	E	I	NO	LOG	8.5" Hole Section T.D.
	M25484																1.17											
	Baleen-3-ST1 8.5" Hole Section																												
RR4.1	Reed EHP41ALKDH	8.50	3 x 14	0.4510	1137	1555	418	17.6	23.8	172.5	2-49	2463	134 - 207	593	132.0	-	1.17-	590.7	58.9	1	2	LT	G	E	I	NO	TD	8.5" Hole Section T.D.
	M25484																1.19											

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Bit Hydraulics Summary

Operator	Well Name	Location	Drilling Contractor	Rig
OMV Australia	**Baleen-3, Baleen-3-ST1**	**VIC/L21**	**Diamond Offshore**	**Ocean Bounty**

Drillstring Abbreviations

N Normal **P** Positive Displacement Motor **S** Camco SRD Tool

M MWD **A** Adjustable Gauge Stabilizer **T** Halliburton TRACS Tool **C** Core

Hydraulics Models

Power Law Model used for drilling with Mud

Bingham Model used for coring and drilling with sea water

Bit No.	Depth (m)	Hole Size in	Jets x 1/32"	Drill String Type	Mud Type	Mud Density sg	PV cP	YP lbs/100 ft sq	Flow Rate gpm	Jet Vel m/sec	Impact Force lbf	Hydraulic Power hhp	Power/ Area hp/sq in	Bit Loss Psi	Bit Loss %	Pipe Loss Psi	ECD sg	Annular Velocities DP OH m/min	Annular Velocities DC OH m/min	Annular Velocities DC Critical m/min
36" Hole Section																				
NB1	112.0	36"	1 x 17, 3 x 24	N	SW/hi-vis sweeps	1.03	1	1	1072	39.4	615.8	80.1	0.2	128	32.3	252	1.03	-	6.6	25.2
17.5" Hole Section																				
NB2	336	17.50	3 x 24	N	SW/hi-vis sweeps	1.03	1	1	1018	75.1	1114.8	276.5	1.2	466	38.3	710	1.03	27.0	35.6	25.5
12.25" Hole Section																				
NB3	458	12.25"	3 x 15, 1 x 24	N	KCL/PHPA/Glycol	1.06	12	24	834	85.0	1063.6	298.6	2.6	614	43.3	752	1.08	50.0	-	-
RR3.1	871	12.25"	3 x 15, 1 x 24	N	KCL/PHPA/Glycol	1.10	15	30	835	85.1	1106.4	310.9	2.7	639	32.3	1240	1.13	50.1	-	-
8.5" Hole Section																				
NB4	1352	8.50	3 x 14	N	FLO-PRO	1.06-1.17	12	44	607	131.6	1323.1	575.1	10.3	1625	72.8	332	1.13	97.1	-	-
Baleen-3-ST1 8.5" Hole Section																				
RR4.1	1555	8.50	3 x 14	N	FLO-PRO	1.17-1.19	15	39	609	132.0	1354.6	590.7	10.6	1664	58.9	876	1.24	97.5	-	-

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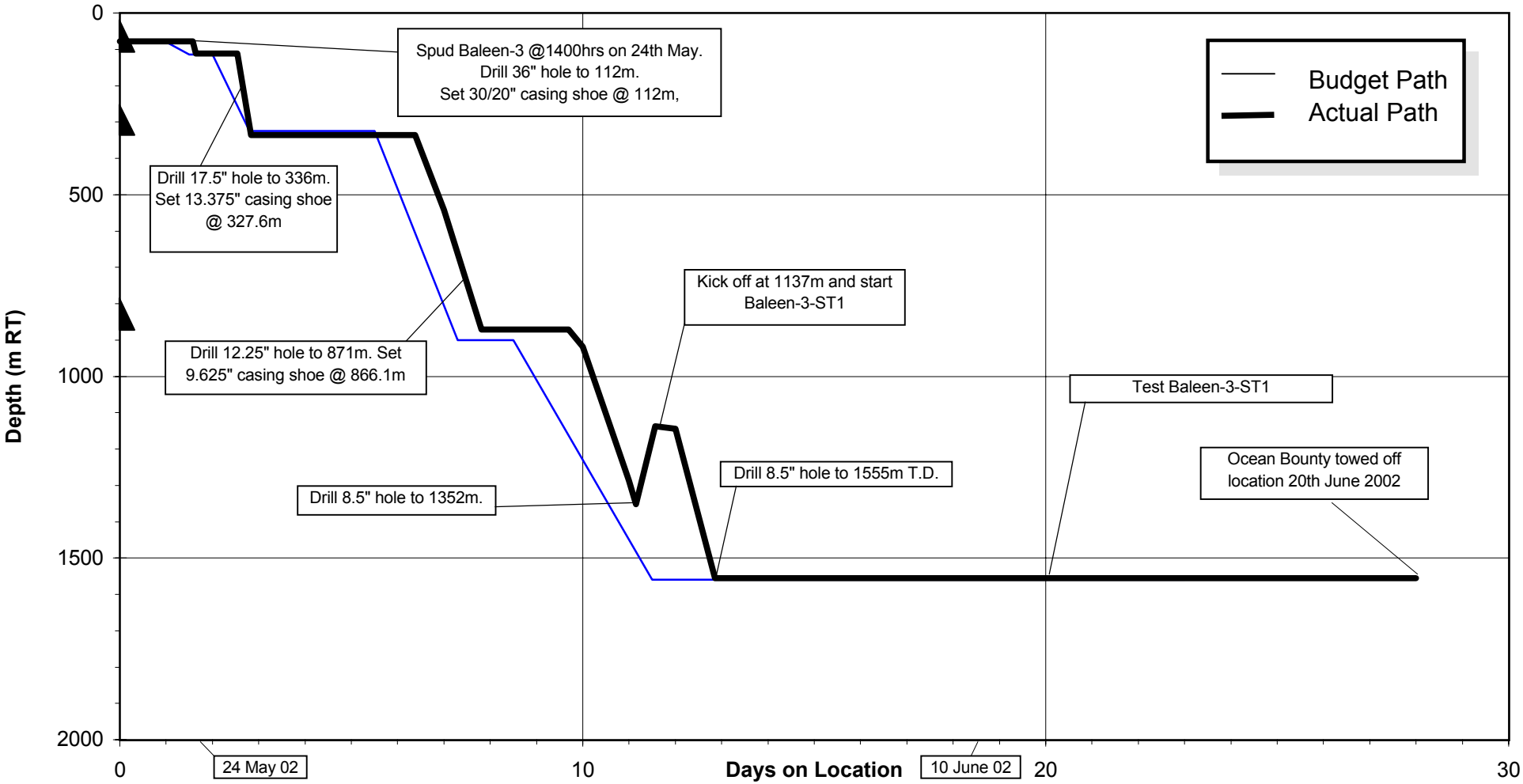
OMV Australia

Baleen-3, Baleen-3-ST1

Time vs. Depth Curve



APPENDICES

FORMATION EVALUATION LOG

1:500

DRILLING DATA PLOT

1:1000

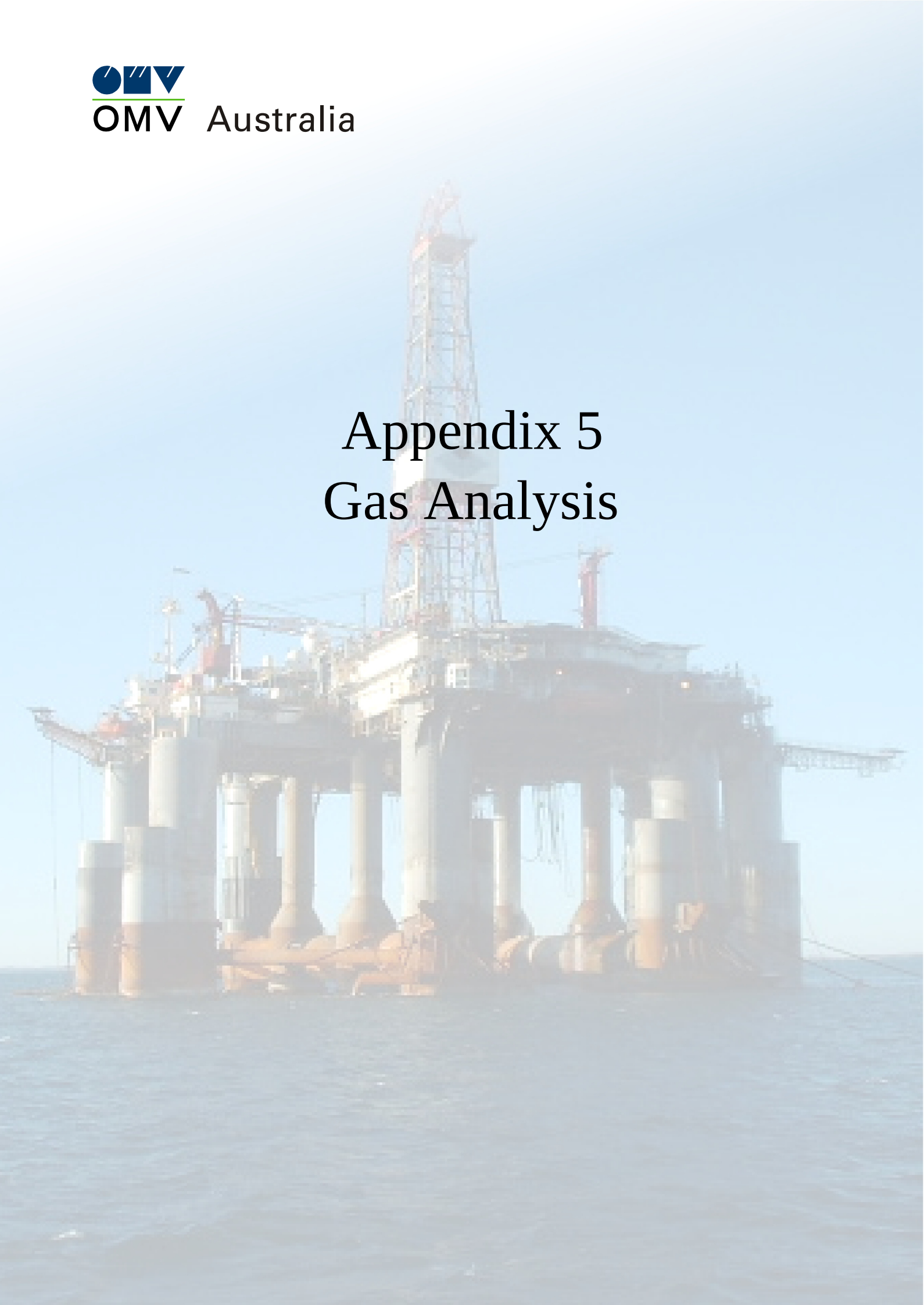
PRESSURE EVALUATION PLOT

1:2500

PRESSURE SUMMARY PLOT

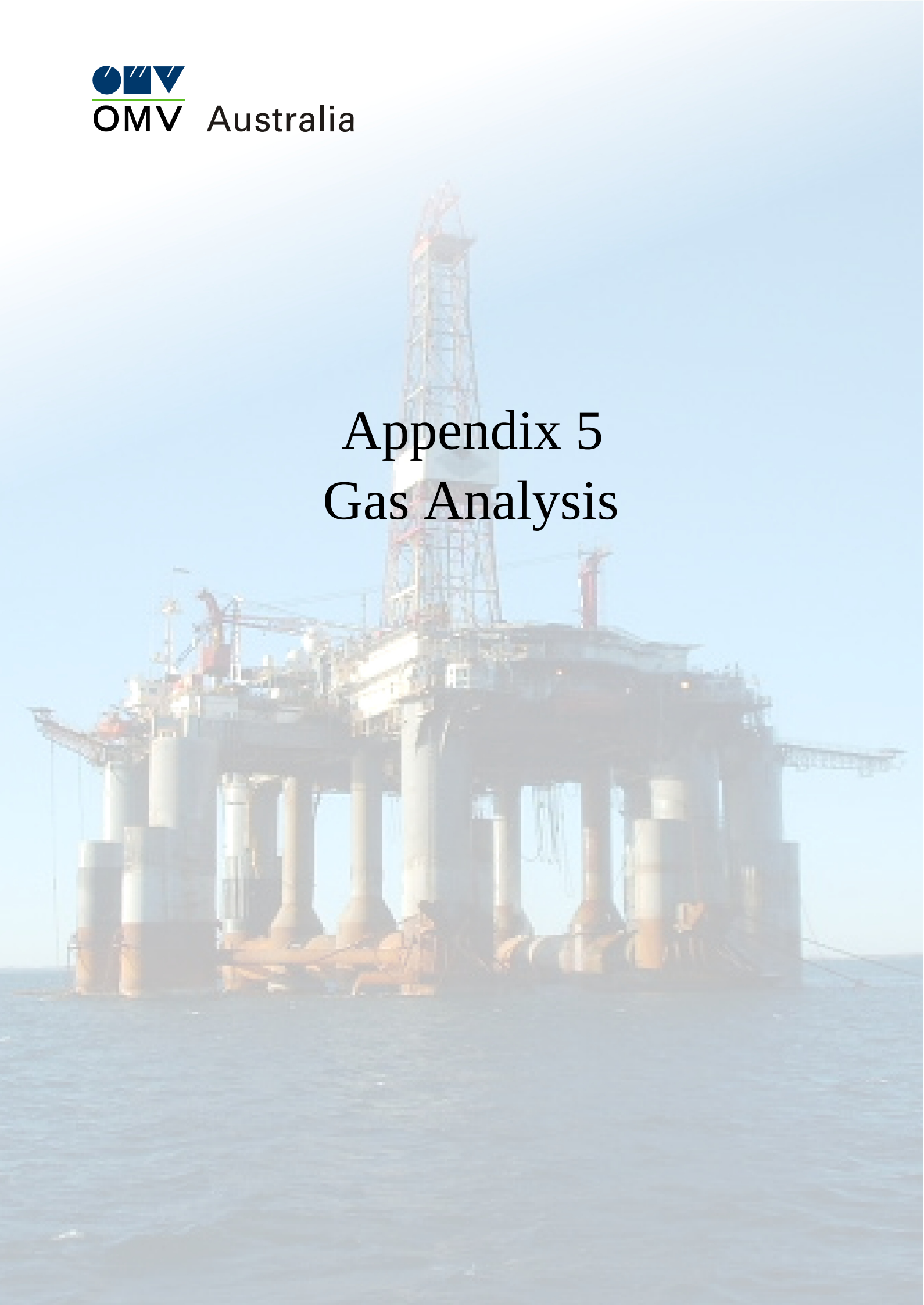
1:7500

OMV Australia



Appendix 5
Gas Analysis

OMV Australia



Appendix 5
Gas Analysis

Compositional Analysis of Surface Gas Samples from Baleen-3 & Patricia-2 Victoria

Prepared for
OMV Australia Pty Ltd

August 2002

File: AFL 2002-022 / AFL 2002-027

Reservoir Fluid Laboratory
Core Laboratories
Perth
Australia

7 August, 2002

OMV Australia Pty Ltd
Level 29, St Martin's Tower
44 St Georges Terrace
Perth 6000
WESTERN AUSTRALIA

Attention: Mr Andy Ion

Subject:	**Compositional Analysis**
Well:	**Baleen-3 and Patricia-2**
Location:	**Victoria**
File:	**AFL 2002-022 & AFL 2002-027**

Dear Andy,

Six 20 litre surface gas samples, three collected from each of the Baleen-3 and Patricia-2 wells, were received at our Perth laboratory for compositional analysis. Presented in the following report are the results of the analyses requested.

Core Laboratories appreciates this opportunity to be of service to OMV Australia Pty Ltd. Should you have any questions regarding this report, or if we may be of any further assistance, please feel free to contact me at your convenience.

Yours Faithfully,
For **CORE LABORATORIES**

Kevin Daken
Laboratory Supervisor

OMV Australia Pty Ltd

Baleen-3 & Patricia-2

AFL 2002-022 & AFL 2002-027

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LABORATORY PROCEDURES

Samples

Three 20-litre gas samples were collected from the separator gas line from each of the Baleen-3 and Patricia-2 wells and forwarded to our Perth Laboratory. As an initial quality check, the opening pressure for each sample was determined and compared to sampling conditions. These results, summarised on page 1 (Baleen-3) and 5 (Patricia-2), indicated the samples were suitable for compositional analysis.

Compositional Analysis

The hydrocarbon composition of each of the separator gas samples was analysed according to the GPA 2286 method. The resultant compositions are reported on pages 2 though 4 (Baleen-3) and 6 through 8 (Patricia-2).

Baleen-3

File: AFL 2002-022

Reservoir Fluid Laboratory
Core Laboratories
Perth
Australia

OMV Australia Pty Ltd
Baleen-3
AFL 2002-022

PRELIMINARY CHECKS OF SAMPLE QUALITY
AND SUMMARY OF SAMPLES RECEIVED

Surface Gas Samples					
Cylinder Number	Sampling Conditions		Laboratory Opening Conditions		
	psig	°F	psig	°F	Air Content (mol %)
1278-C1-F	259.6	54.5	258	66	0.32
2750-C1-F	303.8	38.0	303	66	0.15
1851-C1-F	303.8	38.1	298	66	2.35

All samples were subjected to compositional analysis.

OMV Australia Pty Ltd
Baleen-3
AFL 2002-022

COMPOSITION OF PRIMARY STAGE SEPARATOR GAS - 1278-C1-F
(by Programmed-Temperature, Capillary Chromatography)

Component	Mol %	Plant Products (GPM)	Liquid Density (gm/cc)	MW
Hydrogen Sulfide	* 0.00			
Carbon Dioxide	0.16		0.8172	44.010
Nitrogen	1.67		0.8086	28.013
Methane	98.08		0.2997	16.043
Ethane	0.09	0.024	0.3562	30.070
Propane	Trace	0.000	0.5070	44.097
iso-Butane	0.00	0.000	0.5629	58.123
n-Butane	0.00	0.000	0.5840	58.123
iso-Pentane	0.00	0.000	0.6244	72.150
n-Pentane	0.00	0.000	0.6311	72.150
Hexanes	0.00	0.000	0.6850	84.0
Heptanes	0.00	0.000	0.7220	96.0
Octanes	0.00	0.000	0.7450	107
Nonanes	0.00	0.000	0.7640	121
Decanes	0.00	0.000	0.7780	134
Undecanes	0.00	0.000	0.7890	147
Dodecanes	0.00	0.000	0.8000	161
Totals	100.00	0.024		

SAMPLING CONDITIONS

259.6 psia
54.5 °F

Gas Cylinder
1278-C1-F

Average Sample Properties

Critical Pressure, psia	664.1
Critical Temperature, °R	341.6
Average Molecular Weight	16.30
Calculated Gas Gravity (air = 1.000) ...	0.563

at 14.696 psia and 60 °F

Heating Value, Btu/scf dry gas*
Gross 992

Properties of Plus Fractions

Component	Mol %	Liquid Density (gm/cc)	Liquid API Gravity	MW

Note: * For H2S, 0.00 means less than 0.10 mol percent (cross-checked by other methods)
For all other components:
- trace means detected but less than 0.005 mol percent.
- 0.00 means less than or equal to 0.001 mol percent.

Note: Component properties assigned from literature.
* ref: Gas Producers & Suppliers Association (GPSA) Engineering Data Book

OMV Australia Pty Ltd
Baleen-3
AFL 2002-022

COMPOSITION OF PRIMARY STAGE SEPARATOR GAS - 2750-C1-F
(by Programmed-Temperature, Capillary Chromatography)

Component	Mol %	Plant Products (GPM)	Liquid Density (gm/cc)	MW
Hydrogen Sulfide	* 0.00			
Carbon Dioxide	0.17		0.8172	44.010
Nitrogen	1.82		0.8086	28.013
Methane	97.93		0.2997	16.043
Ethane	0.08	0.021	0.3562	30.070
Propane	Trace	0.000	0.5070	44.097
iso-Butane	0.00	0.000	0.5629	58.123
n-Butane	0.00	0.000	0.5840	58.123
iso-Pentane	0.00	0.000	0.6244	72.150
n-Pentane	0.00	0.000	0.6311	72.150
Hexanes	0.00	0.000	0.6850	84.0
Heptanes	0.00	0.000	0.7220	96.0
Octanes	0.00	0.000	0.7450	107
Nonanes	0.00	0.000	0.7640	121
Decanes	0.00	0.000	0.7780	134
Undecanes	0.00	0.000	0.7890	147
Dodecanes	0.00	0.000	0.8000	161
Totals	100.00	0.021		

SAMPLING CONDITIONS

303.8 psia
38.0 °F

Gas Cylinder
2750-C1-F

Average Sample Properties

Critical Pressure, psia	664.0
Critical Temperature, °R	341.4
Average Molecular Weight	16.32
Calculated Gas Gravity (air = 1.000) ...	0.563

at 14.696 psia and 60 °F

Heating Value, Btu/scf dry gas*
Gross 991

Properties of Plus Fractions

Component	Mol %	Liquid Density (gm/cc)	Liquid API Gravity	MW

Note: * For H2S, 0.00 means less than 0.10 mol percent (cross-checked by other methods)
For all other components:
- trace means detected but less than 0.005 mol percent.
- 0.00 means less than or equal to 0.001 mol percent.

Note: Component properties assigned from literature.
* ref: Gas Producers & Suppliers Association (GPSA) Engineering Data Book

OMV Australia Pty Ltd
Baleen-3
AFL 2002-022

COMPOSITION OF PRIMARY STAGE SEPARATOR GAS - 1851-C1-F
(by Programmed-Temperature, Capillary Chromatography)

Component	Mol %	Plant Products (GPM)	Liquid Density (gm/cc)	MW
Hydrogen Sulfide	* 0.00			
Carbon Dioxide	0.17		0.8172	44.010
Nitrogen	1.79		0.8086	28.013
Methane	97.96		0.2997	16.043
Ethane	0.08	0.021	0.3562	30.070
Propane	Trace	0.000	0.5070	44.097
iso-Butane	0.00	0.000	0.5629	58.123
n-Butane	0.00	0.000	0.5840	58.123
iso-Pentane	0.00	0.000	0.6244	72.150
n-Pentane	0.00	0.000	0.6311	72.150
Hexanes	0.00	0.000	0.6850	84.0
Heptanes	0.00	0.000	0.7220	96.0
Octanes	0.00	0.000	0.7450	107
Nonanes	0.00	0.000	0.7640	121
Decanes	0.00	0.000	0.7780	134
Undecanes	0.00	0.000	0.7890	147
Dodecanes	0.00	0.000	0.8000	161
Totals	100.00	0.021		

SAMPLING CONDITIONS

303.8 psia
38.1 °F

Gas Cylinder
1851-C!-F

Average Sample Properties

Critical Pressure, psia	664.0
Critical Temperature, °R	341.4
Average Molecular Weight	16.32
Calculated Gas Gravity (air = 1.000) ...	0.563

at 14.696 psia and 60 °F

Heating Value, Btu/scf dry gas*
Gross 991

Properties of Plus Fractions

Component	Mol %	Liquid Density (gm/cc)	Liquid API Gravity	MW

Note: * For H2S, 0.00 means less than 0.10 mol percent (cross-checked by other methods)
For all other components:
- trace means detected but less than 0.005 mol percent.
- 0.00 means less than or equal to 0.001 mol percent.

Note: Component properties assigned from literature.
* ref: Gas Producers & Suppliers Association (GPSA) Engineering Data Book

Patricia-2

File: AFL 2002-027

Reservoir Fluid Laboratory
Core Laboratories
Perth
Australia

OMV Australia Pty Ltd
Patricia-2
AFL 2002-027

PRELIMINARY CHECKS OF SAMPLE QUALITY
AND SUMMARY OF SAMPLES RECEIVED

Surface Gas Samples					
Cylinder Number	Sampling Conditions		Laboratory Opening Conditions		
	psig	°F	psig	°F	Air Content (mol %)
2357-C1-F	365	37	375	66	0.11
3416-C1-F	364	37	340	66	0.14
0687-C1-F	296	48	315	66	0.10

All samples were subjected to compositional analysis.

OMV Australia Pty Ltd
Patricia-2
AFL 2002-027

COMPOSITION OF PRIMARY STAGE SEPARATOR GAS - 2357-C1-F
(by Programmed-Temperature, Capillary Chromatography)

Component	Mol %	Plant Products (GPM)	Liquid Density (gm/cc)	MW
Hydrogen Sulfide	* 0.00			
Carbon Dioxide	1.38		0.8172	44.010
Nitrogen	0.69		0.8086	28.013
Methane	97.58		0.2997	16.043
Ethane	0.34	0.091	0.3562	30.070
Propane	0.01	0.003	0.5070	44.097
iso-Butane	Trace	0.000	0.5629	58.123
n-Butane	Trace	0.000	0.5840	58.123
iso-Pentane	0.00	0.000	0.6244	72.150
n-Pentane	0.00	0.000	0.6311	72.150
Hexanes	0.00	0.000	0.6850	84.0
Heptanes	0.00	0.000	0.7220	96.0
Octanes	0.00	0.000	0.7450	107
Nonanes	0.00	0.000	0.7640	121
Decanes	0.00	0.000	0.7780	134
Undecanes	0.00	0.000	0.7890	147
Dodecanes	0.00	0.000	0.8000	161
Totals	100.00	0.094		

SAMPLING CONDITIONS

364 psia
37 °F

Gas Cylinder
2357-C1-F

Average Sample Properties

Critical Pressure, psia	670.9
Critical Temperature, °R	345.8
Average Molecular Weight	16.56
Calculated Gas Gravity (air = 1.000) ...	0.572

at 14.696 psia and 60 °F

Heating Value, Btu/scf dry gas*
Gross 992

Properties of Plus Fractions

Component	Mol %	Liquid Density (gm/cc)	Liquid API Gravity	MW

Note: * For H2S, 0.00 means less than 0.10 mol percent (cross-checked by other methods)
For all other components:
- trace means detected but less than 0.005 mol percent.
- 0.00 means less than or equal to 0.001 mol percent.

Note: Component properties assigned from literature.
* ref: Gas Producers & Suppliers Association (GPSA) Engineering Data Book

OMV Australia Ltd.
Patricia-2
AFL 2002-027

COMPOSITION OF PRIMARY STAGE SEPARATOR GAS - 3416-C1-F
(by Programmed-Temperature, Capillary Chromatography)

Component	Mol %	Plant Products (GPM)	Liquid Density (gm/cc)	MW
Hydrogen Sulfide	* 0.00			
Carbon Dioxide	1.38		0.8172	44.010
Nitrogen	0.69		0.8086	28.013
Methane	97.59		0.2997	16.043
Ethane	0.33	0.088	0.3562	30.070
Propane	0.01	0.003	0.5070	44.097
iso-Butane	Trace	0.000	0.5629	58.123
n-Butane	Trace	0.000	0.5840	58.123
iso-Pentane	0.00	0.000	0.6244	72.150
n-Pentane	0.00	0.000	0.6311	72.150
Hexanes	0.00	0.000	0.6850	84.0
Heptanes	0.00	0.000	0.7220	96.0
Octanes	0.00	0.000	0.7450	107
Nonanes	0.00	0.000	0.7640	121
Decanes	0.00	0.000	0.7780	134
Undecanes	0.00	0.000	0.7890	147
Dodecanes	0.00	0.000	0.8000	161
Totals	100.00	0.091		

SAMPLING CONDITIONS

364 psia
37 °F

Gas Cylinder
3416-C1-F

Average Sample Properties

Critical Pressure, psia	670.9
Critical Temperature, °R	345.7
Average Molecular Weight	16.56
Calculated Gas Gravity (air = 1.000) ...	0.572

at 14.696 psia and 60 °F

Heating Value, Btu/scf dry gas*
Gross 992

Properties of Plus Fractions

Component	Mol %	Liquid Density (gm/cc)	Liquid API Gravity	MW

Note: * For H2S, 0.00 means less than 0.10 mol percent (cross-checked by other methods)
For all other components:
- trace means detected but less than 0.005 mol percent.
- 0.00 means less than or equal to 0.001 mol percent.

Note: Component properties assigned from literature.
* ref: Gas Producers & Suppliers Association (GPSA) Engineering Data Book

OMV Australia Ltd.
Patricia-2
AFL 2002-027

COMPOSITION OF PRIMARY STAGE SEPARATOR GAS - 0678-C1-F
(by Programmed-Temperature, Capillary Chromatography)

Component	Mol %	Plant Products (GPM)	Liquid Density (gm/cc)	MW
Hydrogen Sulfide	* 0.00			
Carbon Dioxide	1.37		0.8172	44.010
Nitrogen	0.70		0.8086	28.013
Methane	97.59		0.2997	16.043
Ethane	0.33	0.033	0.3562	30.070
Propane	0.01	0.003	0.5070	44.097
iso-Butane	Trace	0.000	0.5629	58.123
n-Butane	Trace	0.000	0.5840	58.123
iso-Pentane	0.00	0.000	0.6244	72.150
n-Pentane	0.00	0.000	0.6311	72.150
Hexanes	0.00	0.000	0.6850	84.0
Heptanes	0.00	0.000	0.7220	96.0
Octanes	0.00	0.000	0.7450	107
Nonanes	0.00	0.000	0.7640	121
Decanes	0.00	0.000	0.7780	134
Undecanes	0.00	0.000	0.7890	147
Dodecanes	0.00	0.000	0.8000	161
Totals	100.00	0.036		

SAMPLING CONDITIONS

295 psia
48 °F

Gas Cylinder
0678-C1-F

Average Sample Properties

Critical Pressure, psia	670.9
Critical Temperature, °R	345.7
Average Molecular Weight	16.56
Calculated Gas Gravity (air = 1.000) ...	0.572

at 14.696 psia and 60 °F

Heating Value, Btu/scf dry gas*
Gross 992

Properties of Plus Fractions

Component	Mol %	Liquid Density (gm/cc)	Liquid API Gravity	MW

Note: * For H2S, 0.00 means less than 0.10 mol percent (cross-checked by other methods)
For all other components:
- trace means detected but less than 0.005 mol percent.
- 0.00 means less than or equal to 0.001 mol percent.

Note: Component properties assigned from literature.
* ref: Gas Producers & Suppliers Association (GPSA) Engineering Data Book

OMV Australia

Appendix 6
DST Well Test Data

EXPRO GROUP AUSTRALIA PTY LTD
EDGE - SURFACE DATA ACQUISITION

Company	OMV Australia Pty Ltd
Exal Job Number	J02-188
Well	Baleen-3
Dates	06-14/06/2002
Rig/platform	Ocean Bounty

Exal Engineers	A. Smith / J. Jie

THE EXPRO GROUP

WELL TEST REPORT

E.D.G.E. DATA

Client	:	OMV Australia Pty Ltd
Well	:	Baleen-3
Date	:	06-14/06/2002
Country	:	Australia
Rig/Platform	:	Ocean Bounty
Field	:	VIC/L21
Test	:	Completion
Exal Job Number	:	J02-188
Formation	:	Gurnard
Perforation Interval	:	n/a
Client Engineer	:	A. Ion
Exal Engineer	:	A. Smith / J. Jie

THE EXPRO GROUP

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Baleen-3 Completion Test

5. Wellhead Data / Plots - Complete Test
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Additional Information

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Introduction

Expro group provided the EDGE-X Data Acquisition system on Expro Welltest surface test equipment on OMV Australia PTY LTD well Baleen-3 from the 07th June - 14 June 2002.

The test objectives were to:

1. Install 6-5/8" Excluder 2000 sand screens in the horizontal well bore.
2. Install 5-1/2" well completion string.
3. Determine initial static reservoir pressure.
4. Clean up wells to remove residual mud/filtrate and promote flow contribution from total length while minimising skin damage and plugging of the sand screens.
5. Determine rate-dependent wellbore skin factor.
6. Determine well deliverability.
7. Estimate average formation permeability.
8. Estimate static and flowing pressure gradients.
9. Obtain representative reservoir fluid\samples.
10. Secure the well for future production.
11. Conduct operations in accordance with OMV Australia PTY LTD, Diamond Offshore, and Expro safety procedures.

Sequence of Events

Client	OMV Australia PTY LTD.
Well No.	Baleen 3
Test No.	Completion
Location	Ocean Bounty
Start Date	07/06/02
Country	Australia
Field	VIC/L21
Job Number	J02/188
Formation	Gurnard
Exal Engineer	A.Smith/J.Jie
Expro Supervisor	F.Beaton
Expro Test Crew	B.Farley.J.Anstono,C.Neville,J.Stewart,S.Gurmin
Client Engineer	A.Ion,M.Mulliner
Perforations	Open Hole

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Comment
31/05/02	
07:00:00	Expro Welltest crew commenced rigging up production test equipment according to approved P&ID.
01/06/02	
06:30:00	Continued rigging up and calibrating production test equipment. Unable to rig up pipe flow lines as equipment still onshore.
07:00:00	Checked Expro certification package and equipment manual witnessed by Mike Mulliner (Welltest Engineer).
08:00:00	Inspected that rig flow lines are of welded / flanged construction (not threaded).
02/06/02	
06:30:00	Continued rigging up and calibrating production test equipment. Work boat arrived at rig, off loaded Expro equipment.
03/06/02	
06:30:00	Continued rigging up and calibrating production test equipment.
04/06/02	
06:30:00	Continued rigging up and calibrating production test equipment.
09:00:00	Installed ESD system. Checked Sub Sea Equipment and calculated spaced out for landing string.
10:00:00	ESD signs displayed appropriately and Expro personnel aware of ESD location.
11:00:00	Fire monitors and portable fire extinguishers in place.
12:00:00	Commenced pressure testing on all surface equipment.
12:20:00	Flushed all surface equipment via Fwd and Aft booms until clean.
12:50:00	Test #1 - Full equipment body test to oil and gas diverter manifolds to 500 psi.
13:00:00	Test #2 - Full equipment body test to oil and gas diverter manifolds to 1000 psi.
13:35:00	Test #3 - Full equipment body test and oil manifold to 1000 psi.
13:40:00	Test #4 - Separator body test and gas, oil, water outlet valves to 1000 psi.
13:58:00	Test #5 - Separator inlet and bypass valves to 1000 psi.
14:20:00	Test #6 - Heater coil and bypass valves to 1000 psi.
14:35:00	Test #7 - Heater inlet and bypass valve to 1000 psi.
14:57:00	Test #8 - Forward oil and gas lines to boom burners to 500 psi.
15:10:00	Test #9 - Downstream choke manifold valves to 1000 psi.
15:25:00	Test #10 - Upstream choke manifold valves to 3000 psi.
15:37:00	Test #11 - Sand trap valve to 3000 psi.
15:50:00	Test #12 - Aft oil and gas lines to boom burners to 500 psi.
16:02:00	Test #13 - ESD valve to 3000 psi.
05/06/02	
06:30:00	Rigged up air compressors. Adequate spares on location.
08:00:00	Performed separator flowrates meter factor to surge tank. Obtained oil meter factor = 1.005 and water meter factor = 1.007.
09:00:00	Calibrated Hi / Lo pilots against dead weight tester.
13:00:00	Calibrated Barton and with pody and Edge data acquisition system.
14:00:00	Function tested 5 x ESD stations for shutdown speed.
14:05:00	Inspected that walkways and handrails on each burner boom were in safe condition.
14:10:00	Rigged up burner ignition system. Ignition system electrically inspected, buttons accessible and in dry area.
14:20:00	Placed propane bottles out of direct radiated heat path.
14:30:00	Installed burner head orientation optimum for wind direction.
15:00:00	Function tested burner ignition and flareboom deluge systems.
15:40:00	Observed water screen function efficiently with all nozzles clear and free of scale.

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Comment
05/06/02	
16:00:00	Ran 2" water hoses from rig mud pump to each flareboom.
17:00:00	Rigged up 3" 1502 pipe on drillfloor from derrick stanpipe to production test line.
06/06/02	
06:30:00	Calibrated foxboro chart recorder against dead weight tester.
07:00:00	ESD shutdown time witnessed by Welltest Engineer
07:05:00	ESD at surge tank 3 seconds.
07:07:00	ESD at separator 5 seconds.
07:10:00	ESD at back of Expro lab 5 seconds.
07:15:00	ESD at rig floor 2 seconds.
07:20:00	ESD at outside company man office 3 seconds.
07:25:00	Low ESD pilot at rig floor 8 seconds.
07:30:00	Low ESD pilot at test area 2 seconds.
08:00:00	Function tested ESD system on Expro lab.
09:00:00	Rigged up PVT sampling point.
10:00:00	Rigged up Annulus pressure probe on rig floor.
11:00:00	Commenced rigging up Expro Subsea equipment.
12:00:00	Tested burner ignition system and auxillary pilot.
13:00:00	Continued general welltest preparation.
14:00:00	Rigged up steam generator.
07/06/02	
07:00:00	Function tested steam generator and air compressors.
08:00:00	Re-checked all ESD shut down stations, water screens, boom pilots, put all fire hoses out around test area.
08:00:00	Checked fire exstinguishers. Measured out CTLF and extended for job.
09:00:00	Barriers and signs properly displayed in test area.
10:00:00	Secured all flow and relief lines adequately whip checked and secured to deck.
11:00:00	Surface test equipment electrically inspected and in conformance with rig requirements including grounding.
12:00:00	Started up Expro wireline unit.
13:00:00	Continued with general welltest preparation.
15:00:00	Picked up LLSA to rig floor.
15:30:00	Held JHA prior to picking up SSTT.
15:50:00	Picked up and function tested SSTT.
16:24:00	Made up and function tested THRT.
17:00:00	Commenced RIH with 7" landing string.
17:20:00	Stopped operations to modify slips.
18:40:00	Resumed RIH operations.
18:45:00	Held JHA prior to picking up SSLV.
20:00:00	Picked up SSLV.
20:50:00	TRSCSSV pressure lost, commenced POOH operations.
22:10:00	Slick joint at surface, good test on all umbilical lines.
22:40:00	Hanger at surface, SSSV ring/stab set, commenced reset/repair.
08/06/02	
00:45:00	Repaired TRSCSSV, stabbed on tubing hanger and obtained good test.
01:00:00	Changed out slips and commenced RIH operations.
02:20:00	Made up and function tested SSLV.
03:05:00	Made up circulating head to pup joint in landing string.
03:55:00	Made up kill line to circulation head.
04:10:00	Circulated through completion and stung into packer seal bore PBR , checked space out.

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Comment
08/06/02	
04:50:00	Broke out circulation head and laid out.
05:05:00	Closed TRSCSSV to stop completion flowback.
05:15:00	Rigged up 5" elevators to pick up coil tubing lifting frame.
05:30:00	Held JHA prior to rigging up coil tubing and flowhead.
06:30:00	Picked up CTLF and made up to short bails.
07:00:00	Isolated air supply to test separator from other users.
07:10:00	Flow lines and valves clearly labeled.
07:20:00	Picked up flow coflexip hose and made up to production derrick standpipe.
08:25:00	Made up flowhead to CTLF.
08:45:00	Inspected surface test tree for loose fittings, needle valve handles prior to picking up to rig floor.
09:05:00	Held JHA prior to picking up CTLF with flowhead.
09:45:00	Picked up CTLF with flowhead and made up to landing string.
11:40:00	Closed SSTT upper ball valve.
12:00:00	Closed flow wing valve.
12:20:00	Commenced pressure testing against rig lo-torque valve to 3500 psi.
12:27:00	Good test. Bled off pressure.
12:40:00	Commenced pressure testing against kill line valve to 3500 psi.
12:47:00	Good test. Bled off pressure.
12:50:00	Commenced pressure testing against swab, flow wing, and SSTT upper ball valves to 300 / 3500 psi .
13:03:00	Good test. Bled off pressure.
13:15:00	Opened flow wing and SSTT upper ball valves.
13:16:00	Closed choke manifold.
13:17:00	Closed SSLV.
13:20:00	Commenced pressure testing against choke manifold and SSLV to 300 / 3500 psi.
13:32:00	Good test. Bled off pressure.
13:35:00	Closed flow wing and STT master valves. Opened SSLV.
13:36:00	Opened choke manifold.
13:37:00	Commenced pressure testing against flow wing and master valves to 300 / 3500 psi.
13:48:00	Good test. Bled off pressure.
13:50:00	Closed choke manifold.
14:00:00	Opened STT master valve.
14:05:00	Commenced circulating 240 bbls of brine at 4 bpm to clean filtered inhibited completion brine.
15:05:00	Completed circulating.
15:16:00	Bled off pressure above SSSV.
15:20:00	Commenced landing tubing hanger as per Cameron procedures.
16:00:00	Function and pressure tested TRSCSSV.
17:45:00	Opened annular valve and commenced pressure testing tubing hanger as per Cameron procedures.
18:40:00	Completed pressure testing tubing hanger, closed annular valve.
18:45:00	Commenced rigging up coil tubing.
18:52:00	Closed STT master valve.
19:00:00	Held JHA prior to rigging up coil tubing unit.
19:15:00	Commenced rigging up coil tubing unit.
20:00:00	Welltest engineer verified that lighting adequate at night in welltest area.
09/06/02	
01:00:00	Closed SSSV.
01:05:00	Opened master valve on STT to enable actuator stem to be pushed in to protect from injector head.
01:20:00	Temporarily stopped coil tubing rig up due to maximum 16 hour work safety restriction.
08:00:00	Resumed rigging up coil tubing.

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Comment
09/06/02	
10:25:00	Commenced pressure testing coil tubing unit as per BJ programme.
12:30:00	Conducted final inspection of welltest equipment by OIM, Well Site Manager, Rig Superintendent and Welltest Engineer.
12:33:00	Opened production wing valve on STT.
12:35:00	Function tested 5 x ESD system .
12:40:00	All low pressure pilots closed and isolated. All needle valves on sample points and vents closed.
12:45:00	Air intakes and vents opened / closed as appropriate.
13:55:00	Closed SSLV.
14:10:00	Opened SSSV.
15:00:00	Closed SSLV.
16:00:00	Stabbed coil tubing injector head onto test string.
16:33:00	Commenced pressure testing coil tubing BOP against swab valve to 3000 psi.
16:35:00	Observed leak. Bled off pressure via Halliburton unit.
16:45:00	Started main air compressor on load, standby unit idling. Commenced diesel auxillary testing at aft burner boom.
16:55:00	Commenced diesel auxillary testing at aft burner boom.
17:00:00	Started steam generator.
17:05:00	Opened SSLV.
17:10:00	Stopped compressors and steam generator.
17:10:00	Rigged down coil tubing injector head and BOP's to replace seals. Commenced redressing SRO gauge cable head.
17:30:00	Continued rigging up CTU BOP and injector head.
22:43:00	Connected SRO and memory gauges to toolstring.
22:45:00	Stabbed coil tubing injector head onto test string.
23:19:00	Commenced pressure testing CTU BOP and flowhead connection to 3000 psi.
23:53:00	Opened well to surge tank on 64/64th adjustable choke. Coil tubing commenced RIH @10m/min.
10/06/02	
00:30:00	Coil tubing hung up at tubing hanger depth.
00:55:00	Coil tubing at depth 251.4 m, commenced pumping nitrogen @ 300 scf/m.
01:03:00	Return rate at surge tank = 2016 bbl/d.
01:04:00	Return rate at surge tank = 7344 bbl/d.
01:05:00	Coil tubing commenced RIH, return rate at choke manifold = 1008 bbl/d.
01:06:00	Return rate at surge tank = 2016 bbl/d.
01:07:00	Return rate at surge tank = 1584 bbl/d.
01:08:00	Return rate at surge tank = 1872 bbl/d.
01:09:00	Return rate at surge tank = 1152 bbl/d.
01:09:00	Coil tubing at tubing hanger depth.
01:10:00	Return rate at surge tank = 2304 bbl/d.
01:11:00	Return rate at surge tank = 1584 bbl/d.
01:12:00	Return rate at surge tank = 1872 bbl/d.
01:13:00	Return rate at surge tank = 1296 bbl/d.
01:14:00	Return rate at surge tank = 2160 bbl/d.
01:15:00	Return rate at surge tank = 1296 bbl/d.
01:16:00	Return rate at surge tank = 2304 bbl/d.
01:17:00	Return rate at surge tank = 1296 bbl/d.
01:18:00	Return rate at surge tank = 1872 bbl/d.
01:19:00	Return rate at surge tank = 1440 bbl/d.
01:20:00	Return rate at surge tank = 576 bbl/d.
01:22:00	Coil tubing stopped pumping N2 and commenced POOH.
01:25:00	Shut in well at choke manifold. Total returns = 23.9bbls.
01:48:00	Coil tubing at surface.

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Comment
10/06/02	
01:50:00	Closed SSLV.
02:18:00	Commenced replacing gauge toolstring with jet nozzle.
04:32:00	Jet nozzle installed on toolstring, brine circulated through coil tubing at surface.
05:00:00	Stabbed on injector head and lubricator onto test string.
05:30:00	Commenced pressure testing CTU BOP and flowhead connection to 3000 psi.
05:32:00	Good test. Bled off pressure.
05:35:00	Opened SSLV.
05:38:00	Opened swab valve.
05:45:00	Coil tubing commenced RIH.
06:20:00	Coil tubing hung up at tubing hanger depth.
06:35:00	Bled off pressure via choke manifold to surge tank. Rigged up 2" line from Expro surge tank to mud pit.
07:28:00	Commenced pumping at 0.5 bpm through coil tubing to assist passing obstruction at tubing hanger depth.
07:38:00	Increased rate to 1 bpm.
07:45:00	Observed return at surge tank, stopped circulating.
07:47:00	Closed choke manifold.
07:48:00	Attempted to continue running in hole with CTU.
07:50:00	Coil tubing hung up at tubing hanger depth. Commenced POOH with coil tubing.
08:00:00	Commenced rigging up Expro slickline unit.
08:20:00	Coil tubing at surface.
08:22:00	Closed STT swab valve.
08:26:00	Closed SSLV.
08:45:00	Commenced rigging down coil tubing injector head.
09:00:00	Commenced rigging up wireline unit.
09:30:00	Completed rigging down coil tubing injector head.
10:15:00	Completed rigging down coil tubing BOP.
10:30:00	Installed wireline BOP.
11:55:00	Made up 4 1/2" GS pulling tool onto wireline toolstring. Stabbed wireline lubricator onto BOP.
12:10:00	Increased SSLV close assist line to 3000 psi.
12:35:00	Opened STT swab and kill valves.
12:37:00	Commenced flushing wireline lubricator with brine.
12:44:00	Commenced pressure testing against wireline lubricator, SSLV, and choke manifold to 3000 psi.
12:54:00	Good test. Bled off pressure via Halliburton unit.
12:57:00	Opened SSLV.
13:00:00	Commenced RIH Expro wireline with 4 1/2" GS pulling tool to pull isolation sleeve from tubing hanger.
13:10:00	Expro wireline on depth and latched on. Commenced POOH with isolation sleeve.
13:15:00	Expro wireline at surface. Closed STT swab valve.
13:20:00	Closed SSLV.
13:22:00	Bled off pressure via choke manifold to surge tank. Opened choke manifold.
13:30:00	Broke out lubricator, retrieved isolation sleeve and changed out 4 1/2" GS pulling tool to 4.25" gauge cutter.
13:43:00	Stabbed wireline lubricator onto BOP.
13:45:00	Closed choke manifold.
13:49:00	Commenced pressure testing against wireline lubricator, SSLV, and choke manifold to 3000 psi.
14:00:00	Good test. Bled off pressure via Halliburton unit.
14:01:00	Closed kill valve.
14:03:00	Opened SSLV.
14:05:00	Commenced RIH Expro wireline with 4.25" gauge cutter to 250m.
14:15:00	Expro wireline on depth. Commenced POOH with gauge cutter.
14:21:00	Expro wireline at surface. Closed STT swab valve.

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Comment
10/06/02	
14:25:00	Commenced rigging down wireline lubricator and BOP.
14:44:00	Closed SSLV.
14:50:00	Completed rigging down wireline lubricator and BOP.
15:00:00	Commenced rigging up coil tubing BOP and injector head.
20:00:00	Completed rigging up coil tubing BOP and injector head.
20:16:00	Opened STT swab valve.
20:38:00	Commenced pressure testing through CTU lubricator , SSLV, and choke manifold to 3000 psi.
20:50:00	Good test. Bled off pressure via Halliburton unit.
21:12:00	Opened SSLV.
21:13:00	Opened well to surge tank on 96/64"adjustable choke.
21:20:00	Coil tubing commenced RIH with gauge toolstring @5m/minute.
21:51:00	Coil tubing @200m, preparing to pump N2.
21:56:00	Coil tubing commenced pumping N2 @ 400 scf/m.
22:04:00	Return rate at surge tank = 8208 bbl/d.
22:05:00	Return rate at surge tank = 11952 bbl/d.
22:05:00	Coil tubing continued RIH with gauge toolstring @5m/minute.
22:06:00	Return rate at surge tank = 3312 bbl/d.
22:07:00	Return rate at surge tank = 4176 bbl/d.
22:08:00	Return rate at surge tank = 2304 bbl/d.
22:09:00	Return rate at surge tank = 7920 bbl/d.
22:10:00	Coil tubing stopped pumping N2.
22:10:00	Coil tubing stopped RIH @283mRT.
22:10:00	Shut in well at choke manifold.
22:10:00	SG of displaced gas = 0.97, N2 SG=0.967.
22:10:00	Return rate at surge tank = 720 bbl/d.
22:21:00	Coil tubing continued RIH with gauge toolstring @5m/minute.
22:24:00	Opened well to surge tank on 16/64"adjustable choke.
22:24:00	Return rate at surge tank = 2736 bbl/d.
22:25:00	Return rate at surge tank = 1296 bbl/d.
22:26:00	Return rate at surge tank = 2160 bbl/d.
22:27:00	Return rate at surge tank = 1728 bbl/d.
22:28:00	Return rate at surge tank = 864 bbl/d.
22:30:00	Increase choke to 72/64" adjustable.
22:31:00	Increase choke to 84/64" adjustable.
22:32:00	Coil tubing @300mRT.
22:34:00	Return rate at surge tank = 7344 bbl/d.
22:35:00	Return rate at surge tank = 9369 bbl/d.
22:36:00	Return rate at surge tank = 6624 bbl/d.
22:37:00	Return rate at surge tank = 4464 bbl/d.
22:38:00	Coil tubing @320mRT. Stopped pumping N2.
22:39:00	Return rate at surge tank = 3312 bbl/d.
22:40:00	Return rate at surge tank = 4752 bbl/d.
22:41:00	Return rate at surge tank = 1728 bbl/d.
22:42:00	Coil tubing @350mRT.
22:44:00	Shut in well at choke manifold. Total returns = 65.1 bbls.
22:48:00	Coil tubing @400mRT.
22:58:00	Coil tubing @500mRT.
23:17:00	Coil tubing @624mRT.
11/06/02	
00:15:00	Coil tubing @902mRT waiting to pump N2.
00:32:00	Opened well to tank on 128/64" adjustable choke.

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Comment
11/06/02	
00:33:00	Coil tubing commenced pumping N2 @ 300scf/d.
00:51:00	Return rate at surge tank = 6336 bbl/d.
00:52:00	Return rate at surge tank = 8352bbl/d.
00:53:00	Return rate at surge tank = 9216bbl/d.
00:54:00	Return rate at surge tank = 12240bbl/d.
00:55:00	Return rate at surge tank = 13248bbl/d.
00:55:00	Decreased choke to 28/64" adjustable.
00:56:00	Return rate at surge tank = 6480bbl/d.
00:57:00	Return rate at surge tank = 3600bbl/d.
00:58:00	Return rate at surge tank = 7056bbl/d.
00:59:00	Return rate at surge tank = 9792bbl/d.
00:59:00	Coil tubing stopped pumping N2.
01:00:00	Return rate at surge tank = 4752bbl/d.
01:01:00	Return rate at surge tank = 720bbl/d.
01:01:00	Shut in well at choke manifold and monitor build up. Total returns = 121.7 bbls.
03:00:00	Coil tubing commenced POOH to repair SRO gauges.
04:07:00	Coil tubing at surface.
04:10:00	Closed SSLV.
04:24:00	Closed master valve on STT.
04:24:00	Bled off pressure above STT master valve via choke manifold.
04:30:00	Closed swab valve on STT.
04:57:00	Opened swab valve and bled off pressure in coil tubing via choke manifold.
05:02:00	Closed sawb valve on STT.
05:22:00	Broke out SRO and memory gauges from coil tubing toolstring.
06:25:00	Closed choke manifold.
07:00:00	Suspended all hot permit and shut down cranes operation.
07:00:00	Radio checked, Driller, Flare Watchers, Subsea Engineers, Test Crews, and Data Acquisition Engineer.
07:30:00	Opened swab valve.
07:51:00	Opened choke manifold.
07:53:00	Commenced flushing surface lines and lubricator with brine.
07:54:00	Return at choke manifold.
07:55:00	Closed choke manifold.
07:57:00	Commenced pressure testing through CTU lubricator , SSLV, and choke manifold to 500 / 3000 psi.
08:11:00	Good test. Bled down pressure to 900 psi to equalise across master valve.
08:12:00	Opened STT master valve and locked open.
08:14:00	Observed leak at injector head quick union.
08:45:00	Unlocked STT master valve and closed.
08:50:00	Bled off pressure via choke manifold to gas line flare.
09:55:00	Closed Choke manifold.
10:03:00	Commenced pressure testing through CTU lubricator , SSLV, and choke manifold to 500 / 3000 psi.
10:19:00	Good test. Bled down pressure to 900 psi to equalise across master valve.
10:24:00	Opened STT master valve and locked open.
10:32:00	Opened SSLV.
10:35:00	Coil tubing commenced RIH with gauge toolstring at 15m/minute to 900mRT.
10:40:00	Function tested rig deluge system.
11:00:00	Coil tubing at 195mRT.
11:26:00	Coil tubing at 500mRT.
12:00:00	Coil tubing on depth at 902mRT.
12:10:00	JHA prior to flowing well.

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Comment
11/06/02	
12:25:00	Standby boat Captain aware of responsibilities and informed flaring is to commence.
12:25:00	Air compressors on load, propane pilots on, and started steam generator.
12:30:00	Assigned dedicated person to check lines and equipment while flowing.
12:30:00	Rig water screens operating, Burner boom water screens operating. All water tight doors closed.
12:30:00	Halliburton unit lined up to pump kill fluid.
12:30:00	Applied 200 psi annulus.
12:40:00	Commenced sand monitoring system.
12:42:00	Opened well through separator bypass on 16/64" adjustable choke to aft gas flare line.
12:53:00	Commenced increasing adjustable choke to 20/64".
12:54:00	Adjustable choke at 20/64".
12:57:00	Commenced increasing adjustable choke to 24/64".
12:58:00	Adjustable choke at 24/64".
13:00:00	Commenced increasing adjustable choke to 28/64". Only nitrogen to surface.
13:01:00	Adjustable choke at 28/64".
13:03:00	Commenced increasing adjustable choke to 32/64".
13:04:00	Adjustable choke at 32/64".
13:05:00	Brine at surface.
13:10:00	Gas to surface.
13:16:00	Commenced increasing adjustable choke to 36/64".
13:17:00	Adjustable choke at 36/64". Draeger indicated 0.3% CO2 and 0ppm H2S.
13:22:00	Commenced increasing adjustable choke to 40/64".
13:23:00	Adjustable choke at 40/64".
13:25:00	Commenced increasing adjustable choke to 44/64".
13:26:00	Adjustable choke at 44/64".
13:28:00	Commenced increasing adjustable choke to 48/64".
13:29:00	Adjustable choke at 48/64".
13:30:00	Well slugging gas, brine and mud traces.
13:31:00	Commenced increasing adjustable choke to 52/64".
13:32:00	Adjustable choke at 52/64".
13:34:00	Commenced increasing adjustable choke to 56/64".
13:35:00	Adjustable choke at 56/64".
13:37:00	Commenced increasing adjustable choke to 60/64".
13:38:00	Adjustable choke at 60/64".
13:39:00	Commenced increasing adjustable choke to 64/64".
13:40:00	Adjustable choke at 64/64". Draeger indicated 0.15% CO2 and 0ppm H2S.
13:45:00	Intermittent flaring at gas line.
13:57:00	Commenced increasing adjustable choke to 68/64".
13:58:00	Adjustable choke at 68/64".
14:00:00	Well slugging gas, brine and mud traces.
14:06:00	Commenced increasing adjustable choke to 72/64".
14:07:00	Adjustable choke at 72/64".
14:15:00	BS&W at downstream choke manifold showed 1% sand, 2% mud and 97% brine.
14:20:00	Commenced increasing adjustable choke to 76/64".
14:21:00	Adjustable choke at 76/64".
14:22:00	Commenced increasing adjustable choke to 80/64".
14:23:00	Adjustable choke at 80/64".
14:25:00	Draeger indicated 0.15% CO2 and 0ppm H2S.
14:30:00	BS&W at downstream choke manifold showed 0.5% sand, 1.5% mud and 98% brine.
14:30:00	Well slugging gas, brine and mud.
14:30:00	Draeger indicated 0.15% CO2 and 0ppm H2S.
14:39:00	Manipulated adjustable choke to prevent from plugging.
14:45:00	Unable to take BS&W due to dry gas.

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Comment
11/06/02	
14:50:00	Commenced increasing adjustable choke to 84/64".
14:51:00	Adjustable choke at 84/64".
14:59:00	Commenced increasing adjustable choke to 88/64".
15:00:00	Adjustable choke at 88/64". BS&W at downstream choke manifold showed 4% mud and 96% brine.
15:00:00	Still intermittent flaring at gas line. Draeger indicated 0.15% CO2 and 0ppm H2S.
15:00:00	Well slugging gas, brine and mud.
15:15:00	BS&W at downstream choke manifold showed 8% mud and 92% brine.
15:30:00	BS&W at downstream choke manifold showed 8% mud and 92% brine.
15:30:00	Well slugging gas, brine and mud.
15:36:00	Commenced increasing adjustable choke to 92/64".
15:37:00	Adjustable choke at 92/64".
15:45:00	BS&W at downstream choke manifold showed 4% mud and 96% brine.
16:00:00	BS&W at downstream choke manifold showed 4% mud and 96% brine. Draeger indicated 0.15% CO2 and 0ppm H2S.
16:00:00	Well slugging gas, brine and mud.
16:00:00	Still intermittent flaring at gas line.
16:15:00	BS&W at downstream choke manifold showed 2% mud and 98% brine.
16:17:00	Commenced increasing adjustable choke to 96/64".
16:18:00	Adjustable choke at 96/64".
16:30:00	BS&W at downstream choke manifold showed 3% mud and 97% brine.
16:30:00	Well slugging gas, brine and mud.
16:32:00	Commenced increasing adjustable choke to 100/64".
16:33:00	Adjustable choke at 100/64".
16:45:00	BS&W at downstream choke manifold showed 4% mud and 96% brine.
16:46:00	Commenced increasing adjustable choke to 104/64".
16:47:00	Adjustable choke at 104/64".
16:51:00	Commenced increasing adjustable choke to 108/64".
16:52:00	Adjustable choke at 108/64".
16:56:00	Commenced increasing adjustable choke to 112/64".
16:57:00	Adjustable choke at 112/64".
17:00:00	Well slugging gas, brine and mud. Still intermittent flaring at gas line.
17:00:00	BS&W at downstream choke manifold showed 3% mud and 97% brine. Draeger indicated 0.15% CO2 and 0ppm H2S.
17:00:00	Increased adjustable choke gradually to 128/64".
17:02:00	Adjustable choke at 128/64".
17:15:00	Unable to measure BS&W due to dry gas.
17:24:00	Diverted flow to 128/64" fixed choke.
17:25:00	Increased adjustable choke gradually to 128/64" while still flowing through 128/64" fixed choke.
17:27:00	Opened 3" choke manifold bypass.
17:30:00	Well slugging gas, brine and mud. Unable to measure BS&W due to dry gas.
17:40:00	Diverted flow through test separator.
17:43:00	Installed 4.25" orifice into separator gas meter run.
17:43:00	SG of produced gas = 0.576.
17:50:00	Diverted flow through test separator.
18:00:00	Draeger indicated 0.1% CO2 and 0ppm H2S.
18:15:00	Raised 4.25" orifice from separator from gas meter run.
18:20:00	Inspected sand catcher, no sand.
18:22:00	Diverted flow to 60/64" adjustable choke.
18:23:00	Diverted flow to 62/64" fixed choke.
18:33:00	Diverted flow to 60/64" adjustable choke.
18:36:00	Diverted flow to 62/64" adjustable choke.

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Comment
11/06/02	
18:41:00	Diverted flow to 64/64" fixed choke.
18:54:00	Installed 3.5" orifice into separator gas meter run.
18:54:00	Raised 3.5" orifice from separator from gas meter run.
18:58:00	Installed 3.75" orifice into separator gas meter run.
19:00:00	Well slugging gas, brine and trace mud.
20:00:00	SG of produced gas = 0.576. Draeger indicated 0.1% CO2 and 0ppm H2S.
20:00:00	Established separator liquid level. Commenced flowing to surge tank.
20:30:00	Brine cumulative at surge tank = 2 bbls.
21:00:00	Well slugging gas , brine and trace mud.
22:00:00	SG of produced gas = 0.578. Draeger indicated 0.1% CO2 and 0ppm H2S.
22:00:00	Brine cumulative at surge tank = 6 bbls.
22:42:00	Raised 3.75" orifice from separator from gas meter run.
22:43:00	Diverted flow to 62/64" adjustable choke.
22:47:00	Diverted flow to 60/64" fixed choke.
22:48:00	Installed 3.75" orifice into separator gas meter run.
23:00:00	SG of produced gas = 0.578. Draeger indicated 0.1% CO2 and 0ppm H2S.
23:00:00	BSW = 100% brine and trace mud.
23:00:00	Brine cumulative at surge tank = 7.9bbls.
23:30:00	Brine rate 52.8 bpd and cumulative = 9 bbls.
12/06/02	
00:00:00	Brine rate 72.0 bpd and cumulative = 10.5 bbls.
00:30:00	Brine rate 0.0 bpd and cumulative = 10.5 bbls.
01:00:00	BSW = 100% brine and trace mud.
01:00:00	Brine rate 19.2 bpd and cumulative = 11.3 bbls.
01:00:00	BSW = 100% water and trace mud. SG of produced gas = 0.578. Draeger indicated 0.1% CO2 and 0ppm H2S.
01:30:00	Brine rate 33.6 bpd and cumulative = 12.0 bbls.
01:30:00	BSW = 100% brine and trace mud.
02:00:00	Collected water sample no. 1.1 (500ml Pyrex) from separator water line.
02:00:00	Mud engineer obtained pH = 8 and 112000ppm chloride which indicated the well still cleaning up with completion brine.
02:00:00	Brine rate 12.0 bpd and cumulative = 12.25 bbls.
02:00:00	BSW = 100% brine and trace mud.
02:30:00	Brine rate 84.0 bpd and cumulative = 14.00 bbls.
02:30:00	BSW = 100% brine and trace mud.
03:00:00	Brine rate 60.0 bpd and cumulative = 15.25 bbls.
03:00:00	BSW = 100% brine and trace mud. SG of produced gas = 0.578. Draeger indicated 0.1% CO2 and 0ppm H2S.
03:30:00	Brine rate 36.0 bpd and cumulative = 16.0 bbls.
03:30:00	BSW = 100% brine and trace mud.
04:00:00	Brine rate 38.4 bpd and cumulative = 16.8 bbls.
04:00:00	BSW = 100% brine and trace mud.
04:30:00	Brine rate 28.8 bpd and cumulative = 17.4 bbls.
04:30:00	BSW = 100% brine and trace mud.
05:00:00	Brine rate 40.8 bpd and cumulative = 19.25 bbls.
05:00:00	BSW = 100% brine and trace mud. SG of produced gas = 0.574. Draeger indicated 0.1% CO2 and 0ppm H2S.
05:30:00	Brine rate 50.4 bpd and cumulative = 20.3 bbls.
05:30:00	BSW = 100% brine.
06:00:00	Brine rate 9.6 bpd and cumulative = 20.5 bbls.
06:00:00	BSW = 100% brine and trace mud. SG of produced gas = 0.576.

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Comment
12/06/02	
06:30:00	Brine rate 0.0 bpd and cumulative =20.5 bbls.
06:30:00	BSW = 100% brine.
07:00:00	Brine rate 19.2 bpd and cumulative = 20.9 bbls.
07:00:00	BSW = 100% brine. SG of produced gas = 0.576. Draeger indicated 0.1% CO2 and 0ppm H2S.
07:00:00	SG of brine = 1.100 at 51 degF, pH = 7 and Chloride contents from refractometer 110,000ppm.
07:30:00	Brine rate 19.2 bpd and cumulative = 21.3 bbls.
07:30:00	BSW = 100% brine, pH = 7 and Chloride contents from refractometer 115,000ppm.
08:00:00	SG of brine = 1.096 at 49 degF. Brine rate 62.4 bpd and cumulative = 22.6 bbls.
08:00:00	BSW = 100% brine, pH = 7 and Chloride contents from refractometer 115,000ppm.
08:30:00	Brine rate 24.0 bpd and cumulative = 23.1 bbls.
08:30:00	BSW = 100% brine. pH = 7 and Chloride contents from refractometer 115,000ppm.
09:00:00	Brine rate 24.0 bpd and cumulative = 23.6 bbls.
09:00:00	BSW = 100% brine. SG of produced gas = 0.576. Draeger indicated 0.1% CO2 and 0ppm H2S.
09:00:00	SG of brine = 1.092 at 50 degF, pH = 7 and Chloride contents from refractometer 115,000ppm.
09:30:00	Brine rate 38.4 bpd and cumulative = 24.4 bbls.
09:30:00	BSW = 100% brine, pH = 7 and Chloride contents from refractometer 115,000ppm.
10:00:00	Brine rate 28.8 bpd and cumulative = 25.0 bbls.
10:00:00	BSW = 100% brine. SG of brine = 1.092 at 50 degF, pH = 7 and Chloride contents from refractometer 115,000ppm.
10:30:00	Brine rate 33.8 bpd and cumulative = 25.7 bbls.
10:30:00	BSW = 100% brine, pH = 7 and Chloride contents from refractometer 115,000ppm.
11:00:00	Brine rate 28.8 bpd and cumulative = 26.3 bbls.
11:00:00	BSW = 100% brine, SG of produced gas = 0.578. Draeger indicated 0.1% CO2 and 0ppm H2S.
11:00:00	SG of brine = 1.092 at 50 degF, pH = 7 and Chloride contents from refractometer 115,000ppm.
11:30:00	Brine rate 14.4 bpd and cumulative = 26.6 bbls.
11:30:00	BSW = 100% brine, pH = 7 and Chloride contents from refractometer 115,000ppm.
12:00:00	Brine rate 33.6 bpd and cumulative = 27.3 bbls.
12:00:00	BSW = 100% brine. SG of brine = 1.094 at 49 degF, pH = 7 and Chloride contents from refractometer 115,000ppm.
12:30:00	Brine rate 33.6 bpd and cumulative = 28.0 bbls.
12:30:00	BSW = 100% brine, pH = 7 and Chloride contents from refractometer 115,000ppm.
13:00:00	Brine rate 33.6 bpd and cumulative = 28.7 bbls.
13:00:00	BSW = 100% brine. SG of produced gas = 0.577.
13:00:00	SG of brine = 1.094 at 49 degF, pH = 6 and Chloride contents from refractometer 115,000ppm.
13:30:00	Brine rate 19.2 bpd and cumulative = 29.1 bbls.
13:30:00	BSW = 100% brine, pH = 6 and Chloride contents from refractometer 110,000ppm.
13:30:00	Chloride contents from Mud Engineer 100,000ppm.
14:00:00	Brine rate 28.8 bpd and cumulative = 29.7 bbls.
14:00:00	BSW = 100% brine. Draeger indicated 0.1% CO2 and 0ppm H2S.
14:00:00	SG of brine = 1.096 at 52 degF, pH = 6 and Chloride contents from refractometer 110,000ppm.
14:30:00	Brine rate 24.0 bpd and cumulative = 30.2 bbls.
14:30:00	BSW = 100% brine, pH = 6 and Chloride contents from refractometer 115,000ppm.
15:00:00	Brine rate 19.2 bpd and cumulative = 30.6 bbls.
15:00:00	BSW = 100% brine. SG of produced gas = 0.577.
15:00:00	SG of brine = 1.098 at 56 degF, pH = 6 and Chloride contents from refractometer 100,000ppm.
15:30:00	Brine rate 28.8 bpd and cumulative = 31.2 bbls.
15:30:00	BSW = 100% brine, pH = 6 and Chloride contents from refractometer 110,000ppm.
16:00:00	Brine rate 19.2 bpd and cumulative = 31.6 bbls.
16:00:00	BSW = 100% brine. SG of brine = 1.098 at 56 degF, pH = 6 and Chloride contents from refractometer 105,000ppm.
16:30:00	Brine rate 24.0 bpd and cumulative = 32.1 bbls.
16:30:00	BSW = 100% brine, pH = 6 and Chloride contents from refractometer 110,000ppm.

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Comment
12/06/02	
17:00:00	BSW = 100% brine. Brine rate 24 bpd and cumulative = 32.6 bbls.
17:00:00	SG of produced gas = 0.576. Draeger indicated 0.1% CO2 and 0ppm H2S.
17:00:00	SG of brine = 1.092 at 49 degF, pH = 6 and Chloride contents from refractometer 105,000ppm.
17:00:00	Commenced taking PVT gas sample no. 1.2 into bottle s/n 1278-C1-F.
17:20:00	Completed taking PVT gas sample no. 1.2.
17:30:00	Brine rate 24.0 bpd and cumulative = 33.1 bbls.
17:30:00	BSW = 100% brine, pH = 6 and Chloride contents from refractometer 105,000ppm.
17:30:00	Coil tubing commence RIH with SRO gauges.
18:00:00	BSW = 100% brine, pH = 6 and Chloride contents from refractometer 103,000ppm.
18:00:00	SG of brine = 1.086 at 61 degF. Draeger indicated 0.1% CO2 and 0ppm H2S.
18:00:00	Brine rate 9.6 bpd and cumulative = 33.3 bbls.
18:30:00	Brine rate 4.8 bpd and cumulative = 33.4 bbls.
19:00:00	SG of produced gas = 0.576. Brine rate 4.8 bpd and cumulative = 33.5 bbls. SG of brine = 1.084 at 62 degF.
19:00:00	BSW = 100% brine, pH = 6 and Chloride contents from refractometer 109,000ppm.
19:14:00	Coil tubing at depth 1535m RT.
19:24:00	Coil tubing commence POOH.
19:30:00	Brine rate 24 bpd and cumulative = 34 bbls.
20:00:00	BSW = 100% brine, pH = 6 and Chloride contents from refractometer 100,000ppm.
20:00:00	Brine rate 19.2 bpd and cumulative = 34.4 bbls. SG of brine = 1.090 at 62 degF.
20:30:00	BSW = 100% brine, pH = 6 and Chloride contents from refractometer 118,000ppm.
20:30:00	Brine rate 19.2 bpd and cumulative = 35.8 bbls.
20:45:00	Coil tubing at depth 902m RT.
21:00:00	Brine rate 86.0 bpd and cumulative = 37.6 bbls. SG of brine = 1.091 at 62 degF.
21:00:00	SG of produced gas = 0.576. Draeger indicated 0.1% CO2 and 0ppm H2S.
21:30:00	Brine rate 0.0 bpd and cumulative = 37.6 bbls.
22:00:00	Brine rate 48.0 bpd and cumulative = 38.6 bbls. SG of brine = 1.091 at 62 degF.
22:04:00	Raised orifice plate from separator gas meter run.
22:04:00	Shut in well at choke manifold. Monitored pressure build up. Inspected sand catcher, no sand.
13/06/02	
02:13:00	Opened well through separator on 24/64" adjustable choke to aft gas flare line.
02:16:00	Diverted flow to 28/64" adjustable choke.
02:18:00	Increased adjustable choke to 32/64".
02:25:00	Increased adjustable choke to 34/64".
02:35:00	Diverted flow to 32/64" fixed choke.
02:44:00	Lowered 2.25" orifice into separator gas meter run.
03:00:00	No liquids at surface. SG of produced gas = 0.578.
04:15:00	Commenced taking PVT gas sample no. 1.3 into bottle s/n 2750-C1-F.
04:30:00	Completed taking PVT gas sample 1.3.
04:30:00	Commenced taking PVT gas sample no.1.4 into bottle s/n 1851-C1-F.
04:45:00	Completed taking PVT gas sample no. 1.4.
05:00:00	No liquids at surface. SG of produced gas = 0.578.
06:01:00	Raised orifice plate from separator gas meter run.
06:03:00	Diverted flow to 36/64" adjustable choke.
06:04:00	Commenced increasing adjustable choke to 40/64".
06:05:00	Adjustable choke at 40/64".
06:07:00	Commenced increasing adjustable choke to 44/64".
06:08:00	Adjustable choke at 44/64".
06:12:00	Commenced increasing adjustable choke to 48/64".
06:13:00	Adjustable choke at 48/64".
06:19:00	Lowered 3.0" orifice into separator gas meter run.

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Comment
13/06/02	
06:25:00	Raised orifice plate from separator gas meter run.
06:26:00	Diverted flow to 48/64" fixed choke.
06:27:00	Lowered 3.0" orifice into separator gas line.
06:30:00	BS&W = 2% mud and 98% brine. Established separator liquid level. Commenced flowing to surge tank.
07:00:00	BS&W = 2% mud and 98% brine, pH = 6 and Chloride contents from refractometer 110,000ppm.
07:00:00	Brine rate 38.4 bpd and cumulative = 39.4 bbls. SG of brine = 1.090 at 62 degF.
07:00:00	SG of produced gas 0.586. Draeger indicated 0.1% CO2 and 0ppm H2S.
07:25:00	Commenced conducting flowing gradient survey with coil tubing.
07:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 100,000ppm.
07:30:00	Brine rate 24.0 bpd and cumulative = 39.9 bbls.
08:00:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 115,000ppm.
08:00:00	Brine rate 38.4 bpd and cumulative = 40.7 bbls. SG of brine = 1.092 at 45 degF.
08:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 115,000ppm.
08:30:00	Brine rate 38.4 bpd and cumulative = 41.5 bbls.
09:00:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 110,000ppm.
09:00:00	Brine rate 4.8 bpd and cumulative = 41.6 bbls.
09:15:00	Completed conducting flowing gradient survey with coil tubing. Coil tubing at 902mRT.
09:15:00	Collected water sample 1.5 from separator water line.
09:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 115,000ppm.
09:30:00	Brine rate 0 bpd and cumulative = 41.6 bbls.
10:00:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 100,000ppm.
10:00:00	Brine rate 0 bpd and cumulative = 41.6 bbls.
10:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 105,000ppm.
10:30:00	Brine rate 0 bpd and cumulative = 41.6 bbls.
10:31:00	Raised orifice plate from separator gas meter run.
10:33:00	Diverted flow through 50/64" adjustable choke.
10:34:00	Commenced increasing adjustable choke to 54/64".
10:35:00	Adjustable choke at 54/64".
10:36:00	Commenced increasing adjustable choke to 58/64".
10:37:00	Adjustable choke at 58/64".
10:39:00	Commenced increasing adjustable choke to 60/64".
10:40:00	Adjustable choke at 60/64".
10:43:00	Diverted flow through 60/64" fixed choke.
10:45:00	Lowered 3.75" orifice into separator gas meter run.
11:00:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 110,000ppm.
11:00:00	Brine rate 67.2 bpd and cumulative = 43.0 bbls.
11:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 115,000ppm.
11:30:00	Brine rate 38.4 bpd and cumulative = 43.8 bbls.
11:38:00	Sudden increase in wellhead pressure. Possibly fixed choke partially plugged.
12:00:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 105,000ppm.
12:00:00	Brine rate 0 bpd and cumulative = 43.8 bbls. SG brine 1.08 at 48 degF.
12:00:00	SG of produced gas 0.580. Draeger indicated 0.1% CO2 and 0ppm H2S.
12:02:00	Raised orifice plate from separator gas meter run.
12:02:00	Diverted flow through 60/64" adjustable choke to. Retrieved fixed choke for plugging.
12:04:00	Inspection revealed metal debris lodged in fixed choke.
12:08:00	Diverted flow through 60/64" fixed choke.
12:10:00	Lowered 3.75" orifice into separator gas meter run.
12:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 100,000ppm.
12:30:00	Brine rate 24 bpd and cumulative = 44.3 bbls.
12:55:00	Commenced conducting flowing gradient survey. RIH coil tubing to 1535mRT.
13:00:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 95,000ppm.

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Comment
13/06/02	
13:00:00	Brine rate 0 bpd and cumulative = 44.3 bbls.
13:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 105,000ppm.
13:30:00	Brine rate 28.8 bpd and cumulative = 44.9 bbls.
13:55:00	Coil tubing at 1535 mRT. Stopped for 10 min.
14:00:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 95,000ppm.
14:00:00	Brine rate 0 bpd and cumulative = 44.9 bbls. Collected water sample no. 1.6 from separator water line.
14:12:00	Commenced POOH coil tubing to 902 mRT.
14:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 95,000ppm.
14:30:00	Brine rate 0 bpd and cumulative = 44.9 bbls.
15:00:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 100,000ppm.
15:00:00	Brine rate 24 bpd and cumulative = 45.4 bbls.
15:00:00	Coil tubing at 902mRT. Completed conducting flowing gradient survey.
15:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 95,000ppm.
15:30:00	Brine rate 24 bpd and cumulative = 45.9 bbls.
16:00:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 100,000ppm.
16:00:00	Brine rate 24 bpd and cumulative = 46.4 bbls.
16:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 100,000ppm.
16:30:00	Brine rate 24 bpd and cumulative = 46.9 bbls.
17:00:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 105,000ppm.
17:00:00	Brine rate 24 bpd and cumulative = 47.4 bbls.
17:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 110,000ppm.
17:30:00	Brine rate 19.2 bpd and cumulative = 47.8 bbls.
17:31:00	Raised orifice plate from separator gas meter run. Shut in well at choke manifold.
21:02:00	Opened well on 16/64" adjustable choke to aft flare boom.
21:03:00	Increased adjustable choke to 24/64".
21:04:00	Increased adjustable choke to 28/64".
21:05:00	Increased adjustable choke to 32/64".
21:06:00	Increased adjustable choke to 36/64".
21:07:00	Increased adjustable choke to 40/64".
21:08:00	Increased adjustable choke to 44/64".
21:10:00	Increased adjustable choke to 48/64".
21:11:00	Increased adjustable choke to 52/64".
21:13:00	Increased adjustable choke to 56/64".
21:14:00	Increased adjustable choke to 60/64".
21:15:00	Increased adjustable choke to 64/64".
21:19:00	Increased adjustable choke to 68/64".
21:25:00	Increased adjustable choke to 76/64".
21:29:00	Increased adjustable choke to 80/64".
21:30:00	Brine rate 79.9 bpd and cumulative = 49.5 bbls.
21:33:00	Increased adjustable choke to 84/64".
21:37:00	Increased adjustable choke to 88/64".
21:42:00	Increased adjustable choke to 92/64".
21:43:00	Increased adjustable choke to 96/64".
21:46:00	Increased adjustable choke to 100/64".
21:48:00	Increased adjustable choke to 104/64".
21:50:00	Increased adjustable choke to 108/64".
21:52:00	Increased adjustable choke to 112/64".
21:54:00	Increased adjustable choke to 116/64".
21:56:00	Diverted flow through 128/64" fixed choke.
21:59:00	Lowered 4.25" orifice into separator gas meter run.
22:00:00	SG of produced gas 0.578. Draeger indicated 0.15% CO2 and 0ppm H2S.

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Comment
13/06/02	
22:00:00	BS&W showed 100% brine, pH = 6.5 and Chloride contents from refractometer 115,000ppm.
22:00:00	Brine rate 100.8 bpd and cumulative = 51.6 bbls. SG of brine 1.090 at 53 degF.
22:30:00	BS&W showed 100% brine, pH = 6.5 and Chloride contents from refractometer 116,000ppm.
22:30:00	Brine rate 81.6 bpd and cumulative = 53.3 bbls.
23:00:00	BS&W showed 100% brine, pH = 6.5 and Chloride contents from refractometer 113,000ppm.
23:00:00	Brine rate 52.8 bpd and cumulative = 54.4 bbls. SG of brine 1.090 at 53 degF.
23:30:00	BS&W showed 100% brine, pH = 6.5 and Chloride contents from refractometer 110,000ppm.
23:30:00	Brine rate 48.0 bpd and cumulative = 55.4 bbls.
14/06/02	
00:00:00	BS&W showed 100% brine, pH = 6.5 and Chloride contents from refractometer 113,000ppm.
00:00:00	Brine rate 48.0 bpd and cumulative = 56.4 bbls.
00:30:00	BS&W showed 100% brine, pH = 6.5 and Chloride contents from refractometer 110,000ppm.
00:30:00	Brine rate 28.8 bpd and cumulative = 57.0 bbls.
01:00:00	BS&W showed 100% brine, pH = 6.5 and Chloride contents from refractometer 108,000ppm.
01:00:00	Brine rate 28.8 bpd and cumulative = 57.6 bbls.
01:30:00	Raised orifice plate from separator gas meter run.
01:31:00	Shut in well at choke manifold.
01:40:00	Commenced POOH coil tubing at 20m / min.
02:45:00	Coil tubing at surface.
03:00:00	Closed SSSV.
03:05:00	Bled down pressure above SSSV to 200 psi for inflow test TRSSSV.
03:20:00	Good test. Equalise pressure across and opened TRSSSV.
03:35:00	Closed SSLV.
03:36:00	Bled down pressure above to inflow test SSLV.
03:43:00	Good test. Closed STT swab valve.
03:48:00	Opened STT swab valve.
03:52:00	Closed STT master valve and flushed across flowhead to expro surface lines.
04:03:00	Closed STT flow wing valve.
04:05:00	Opened coil tubing lubricator low torque to vent lubricator section.
04:20:00	Commenced rigging down coil tubing.
06:00:00	Rigged down injector coil tubing injector head. End Of test.

AFT BURNER 4 HEADS 1 AUX.

GAS LINE
OIL LINE
AUX. LINE
AIR LINE
WATER LINE
FSV3
PROPANE IGNITION
DIESEL IGNITION

CLIENT
EXPRO

AIR MANIFOLD
DIESEL MANIFOLD
AIR FROM COMPRESSORS
3"-AL-B
2"-FL-B

OIL MANIFOLD
GAS MANIFOLD
RIG WATER MANIFOLD
RIG WATER SUPPLY
3"-OL-A

FWD BURNER 4 HEADS 1 AUX.

GAS LINE
OIL LINE
AUX. LINE
AIR LINE
WATER LINE
FSV4
PROPANE IGNITION
DIESEL IGNITION

DIAPHRAGM PUMP

VENT TO OVERBOARD
GAUGE TANK
CAPACITY 50 BBL
LG
LG

RELIEF TO OVERBOARD
VENT TO OVERBOARD
3"-VL-A
SURGE TANK
3"-VL-A
PSV3
45
PSV4
45
3"-VL-A
PSH2
ESD2
P
LG
LG
50 psi
1440 psi
3"-OL-A
DRAIN TO OVERBOARD

OIL MANIFOLD
P
FSV2
3"-OL-A
3"-OL-A
3"-WL-A
TRANSFER PUMP 1
3"-WL-A

RELIEF TO OVERBOARD
4"-VL-A
4"-GL-A
TO EDGE
PC
PCV1
T
P
FI
TO EDGE
PSH4
ESD2
PSV1
1440
PSV2
1440
FSV5
PCV1
HORIZONTAL SEPARATOR
LC
LCV1
LG
LC
LCV2
LG
TO EDGE
T
FSV6
LOV1
FSV7
LCV2
PSL2
ESD2
FSV1
SEPARATOR

EXPRO ESD CONTROL PANEL 1
FROM MANUAL ESD STATIONS
7" TREE
TO EDGE
PSL1
ESD1
T
P
EXPRO ESD CONTROL PANEL 2
SAND TRAP
5000 psi
1440 psi
TO EDGE
T
P
PSH1
ESD2
TO EDGE
T
P
PSH3
ESD2
PSV5
150
PSE1
150
TC
TCV1
RELIEF TO OVERBOARD
ESD
ESD 2
EXPRO
CLIENT
CHEMICAL INJECTION
ESD VALVE
3"-FL-A
CHOKE MANIFOLD
CHEMICAL INJECTION
3"-FL-A
DIRECT STEAM HEAT EXCHANGER
TCV1
FSV
STEAM GENERATOR
TO OVERBOARD
HYDRAULIC MASTER VALVE
EXPRO SUBSEA & HMV CONTROL PANEL
7" LUBRICATOR VALVE
7" SUBSEA TREE

WL	WATER LINE
VL	VENT LINE
SL	STEAM LINE
OL	OIL LINE
GL	GASLINE
FL	FLUID LINE
CL	COFLEXIP
AL	AIR LINE
B	HOSES/HARD PIPING
A	HARD PIPING
FL	FLUID ID
3"	LINE ID
MARK	DESCRIPTION

3"-FL-A-(B)

PSE1	150 PSI	DIRECT HEATER
PSV5	150 PSI	DIRECT HEATER
PSV4	45 PSI	SURGE TANK
PSV3	45 PSI	SURGE TANK
PSV2	1440 PSI	SEPARATOR
PSV1	1440 PSI	SEPARATOR
PSL2	150 PSI	DOWNSTREAM CHOKE MANIFOLD
PSL1	300 PSI	UPSTREAM CHOKE MANIFOLD
PSH4	??? PSI	SEPARATOR
PSH3	120 PSI	HEATER BODY
PSH2	40 PSI	SURGE TANK
PSH1	1200 PSI	DOWNSTREAM CHOKE MANIFOLD
MARK	SETTINGS	LOCATION

SAFETY SYSTEM SETTINGS

WELLTEST EQUIPMENT RIGGED UP AS PER PFD
CHECKED
DATE
SIGNED WT SUP.

No.	DATE	REVISION	BY	AUTH
2	30/04/02	AS PER RIG VISIT	SA	DL
1	24/04/02	APPLIED CHANGES AS PER MEETING MIKE MULLINER 18/4	DL	DL

THE EXPRO GROUP

DRAWN	D. Linkston
DATE	18/4/02
CHECKED	
SIGNED	
JOB No.	J02/ 188

TITLE
PROCESS FLOW DIAGRAM (PFD)
PATRICIA BALEEN PROJECT
OCEAN BOUNTY
CUSTOMER : OMV AUSTRALIA P/L

EXPRO Group Australia
West Perth, Western Australia
Telephone: 08 9213 5555

DRAWING No. PFDJ02/188
REV. 2

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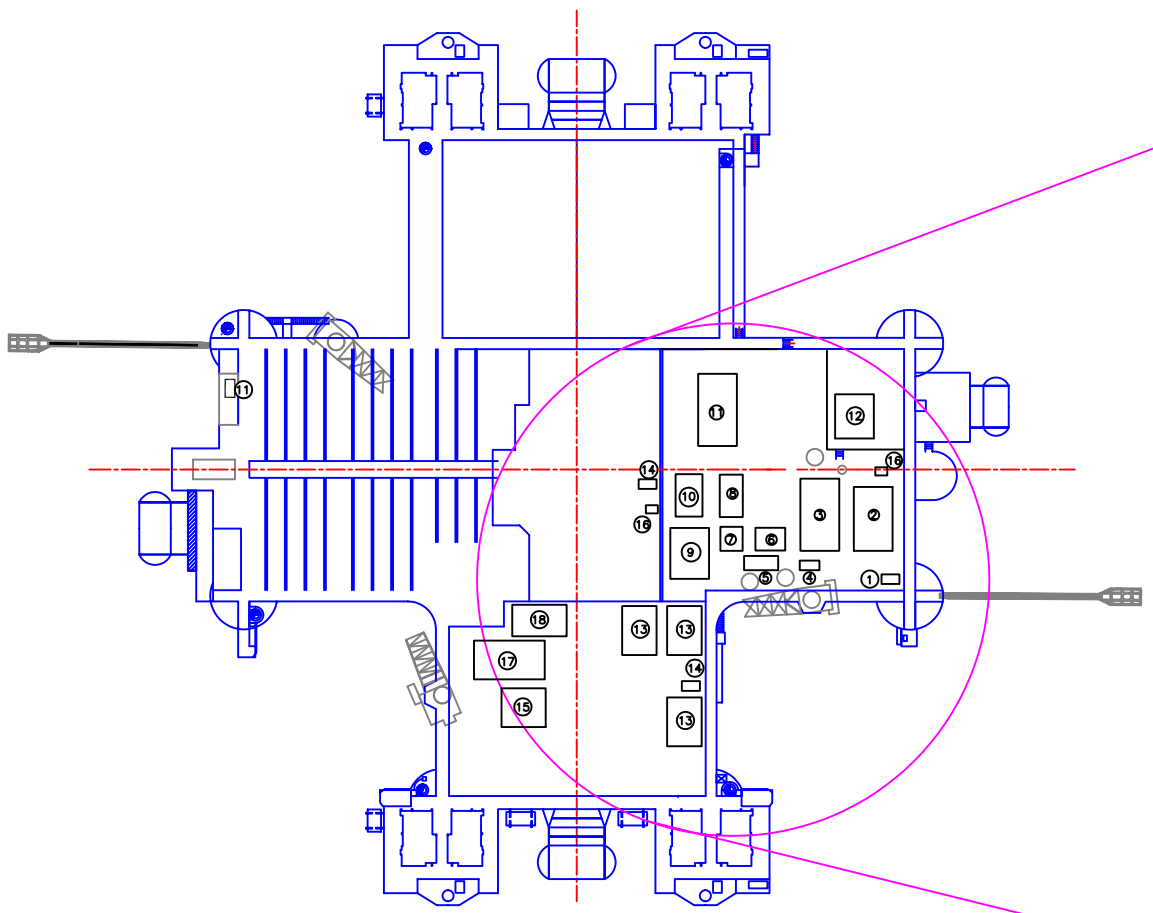
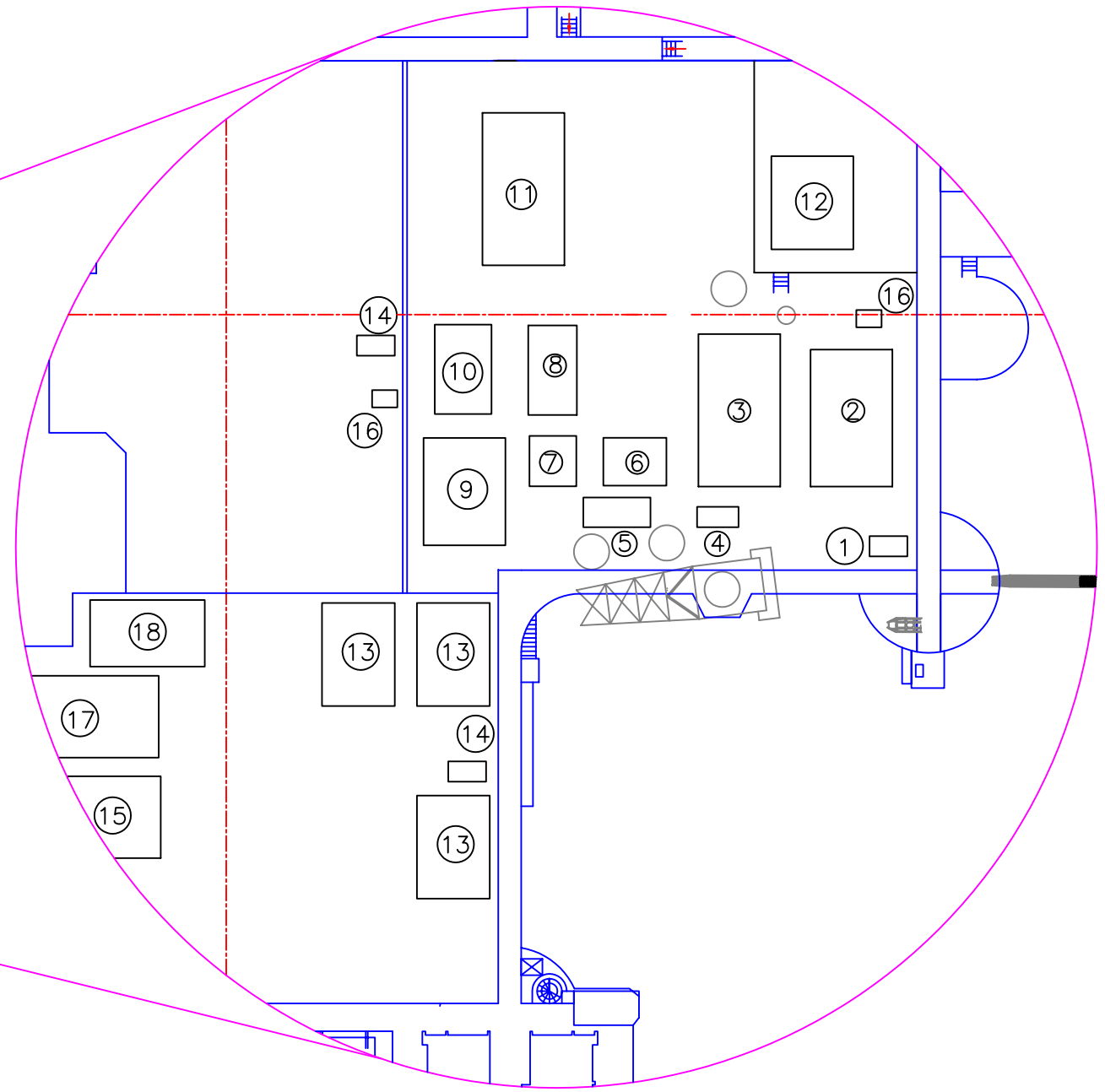
EXPLODED VIEW OF WELL TEST AREA

RIG OVERVIEW





ITEM	DESCRIPTION	LENGTH	WIDTH	HEIGHT	METRIC TONS
1	PROPANE RACK	1.07	1.07	1.90	1.00
2	HEAT EXCHANGER	6.10	2.44	2.44	10.00
3	TEST SEPARATOR	7.40	2.44	2.80	19.00
4	SURFACE SAFETY VALVE	0.82	0.77	1.65	1.00
5	JUNK TRAP	2.44	1.52	1.22	1.00
6	3" CHOKE MANIFOLD	2.50	2.00	0.80	3.00
7	3" OIL MANIFOLD	1.80	1.80	0.40	3.00
8	TRANSFER PUMP	3.10	1.50	1.80	3.00
9	SURGE TANK	2.45	3.45	5.80	9.00
10	STOCK TANK	3.15	1.85	2.40	4.00
11	PRESSURISED LAB	6.06	2.43	2.60	8.00
12	WELL TEST CONTAINER	3.05	2.43	2.62	9.50
13	AIR COMPRESSOR	3.80	2.16	1.96	6.00
14	AIR RECEIVER	1.50	1.00	0.40	0.3
15	WIRELINE CONTAINER	3.05	2.43	2.62	10.5
16	AIR PUMP	0.80	0.70	1.00	0.1
17	SUBSEA CONTAINER	6.04	2.42	3.14	12.00

WELLTEST EQUIPMENT RIGGED UP AS PER LAY OUT DIAGRAM

CHECKED			
DATE			
SIGNED WT SUP.			

No.	DATE	REVISION	BY	AUTH

THE EXPRO GROUP

DRAWN	S. ASHTON	TITLE: WELL TEST LAY OUT DIAGRAM PATRICIA BALEEN PROJECT OCEAN BOUNTY
DATE	02/05/02	
CHECKED	D. LINKSTON	
SIGNED		
JOB No.	J02/188	CUSTOMER : OMV AUSTRALIA P/L

The EXPRO Group
West Perth, WA Australia
Telephone: 08 92135555

DRAWING No.	REV.
LAYJ02/188	0

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THE EXPRO GROUP

GLOSSARY OF TERMS

Client :	OMV Australia Pty Ltd	**Well No. :**	Baleen-3
Test :	Completion	**Date :**	06-14/06/2002

A	Average
a(v)	Average
AMON	SST Annulus Monitor
AMV	SST Annulus Master Valve
API	American Petroleum Institute
ASV	SST Annulus Swab Valve
AWV	SST Annulus Wing Valve
Bbls	Barrels
BHA	Bottom Hole Assembly
BHFP	Bottom Hole Flowing Pressure
BHFT	Bottom Hole Flowing Temperature
BHP	Bottom Hole Pressure
BHT	Bottom Hole Temperature
BOP	Blow Out Preventer
BPV	Back Pressure Valve
BRT	Below Rotary Table
BS&W	Base Sediment and Water
CBL	Cement Bond Log
CITHP	Closed In Tubing Head Pressure
C02	Carbon Dioxide
Cum	Cumulative
d	Day
degF	Degrees F
FTHP	Flowing Tubing Head Pressure
gas	Gas
GLV	Gas Lift Valve
GOR	Gas Oil Ratio
GR	Gamma Ray
H2S	Hydrogen Sulfide Gas
JSA	Job Safety Analysis
KCl	Potassium Chloride
MD	Measured Depth
MDBRT	Measured Depth Below Rotary Table
MF	Meter Factor
MM/b	Millions of std cubic feet per barrel
MM/d	Millions of std cubic feet per day
MMcf	Millions of std cubic feet
MODU	Mobile Offshore Drilling Unit
mRT	Meters - Rotary Table
MWD	Measurement While Drilling
o	Oil
PLT	Production Logging Tool
PMV	SST Production Master Valve
POOH	Pulling out of hole
ppm	Parts per million
psia	Pounds per square inch (absolute pressure)
psig	Pounds per square inch (gauge pressure)
PSR	Production Seal Rams
PSV	SST Production Swab Valve
PWV	Production Wing Valve
Q	Flow Rate
RT	Rotary Table
SIR	Sand Impact Rate
scf	Standard cubic feet
sep	Separator
sepb	Separator barrels
sepd	Separator differential
SG	Specific Gravity
SSSV	Sub Sea Safety Valve
SST	Sub Sea Tree
stk	Stock Tank
stkb	Stock Tank Barrels
stkd	Stock Tank Barrels per day
TD	Total Depth
THRT	Tubing Hanger Running Tool
TRT	Tree Running Tool
TVD	True Vertical Depth
Usfm	Ultrasonic Flow Meter
WHFP	Wellhead Flowing Pressure
WHFT	Wellhead Flowing Temperature

THE EXPRO GROUP

TRANSDUCER INFORMATION

Client : OMV Australia Pty Ltd **Well No. :** Baleen-3

Test : Completion **Date :** 06-14/06/2002

Probe No.	Location	Span	Serial No.	Tag
1	Upstream Choke - Test Area	0-5,000 PSIG	7535407	UCP
2	Upstream Choke - Test Area	0-300 deg F	812518	UCT
3	Downstream Choke - Test Area	0-5,000 PSIG	1043225	DCP
4	Downstream Choke - Test Area	0-300 deg F	812519	DCT
5	Annulus	0-10,000 PSIG	7535403	AnnP
6	Separator Gas Line	0-1,500 PSIG	1033769	GasP
7	Separator Gas Line	0-300 deg F	812517	GasT
8	Separator Gas Line	0-400 INWG	7535420	GasD
9	Separator Oil Line	0-300 deg F	812521	OilT
10	Heater	0-5,000psig	7535409	HeatP
11	Heater	0-300 deg F	812516	HeatT
12	Separator Oil Line	0-2,000 BBL/D	FLO-111	Oil1
13	Separator Oil Line	0-8,000 BBL/D	FLO-112	Oil2
14	Separator Oil Line	0-8,000 BBL/D	FLO-113	Oil3
15	Separator Water Line	0-2,000 BBL/D	FLO-114	Water

THE EXPRO GROUP

EXAL RESERVOIR SERVICES

OIL FLOW RATE CALCULATION

$$Vsep = Vm * m * (1-BSW)$$

where

Vsep = Corrected meter liquid volume.

Vm = Meter volume.

m = Meter factor determined during test flow periods. Applied to all volumes recorded by EDGE.

BSW = Basic Sediment & Water value as measured at test separator.

$$Vstk = Vsep * (1-Shr) * Vcf * Cf$$

where

Vstk = Volume of oil produced at standard conditions (14.73 psia @ 60°F)

Shr = Shrinkage, accounts for changes in oil volumes due to liberations of free gas between separator and atmospheric pressure. Method of shrinkage, ie. Shrinkage Tester, Katz correlations, etc as determined by operating company.

Vcf = Volume Correction Factor. Often applied as part of the shrinkage factor. Corrects the volume at the shrinkage temperature to the volume at the standard temperature (60°F).
re: API/NDS Standard petroleum measurement tables 1979.

Cf = Conversion factor = 1.
(Variable factor used for units output ie. Bbls/day, M3/day, etc)

THE EXPRO GROUP

EXAL RESERVOIR SERVICES

GAS FLOW RATE CALCULATION

Gas rate = Cf * C * Sqrt (hw * Pf)

Orifice constant C = Fb * Fpb * Ftb * Fg * Ftf * Fr * Y * Fpv

where

Fb	=	Basic orifice constant.
Fpb	=	Pressure base factor. Unity as pressure base used is 14.73 psia.
Ftb	=	Temperature base factor. Unity as temperature base used is 520°R (60°F).
Fg	=	Specific gravity factor. Unity if specified gravity of gas is 1.0.
Ftf	=	Flowing temperature factor. Unity if flowing temperature is 520°R (60°F).
Fr	=	Reynold number.
Y	=	Expansion factor.
Fpv	=	Supercompressibility factor. Z is calculated using the Dranchuk correlation, correcting for mol % of CO2, N2, and H2S for a surface gas.
hw	=	Differential across orifice plate (inches of water).
Pf	=	Flowing pressure upstream of orifice plate (psia).
Cf	=	Coversion factor = 24e-6.

Note:

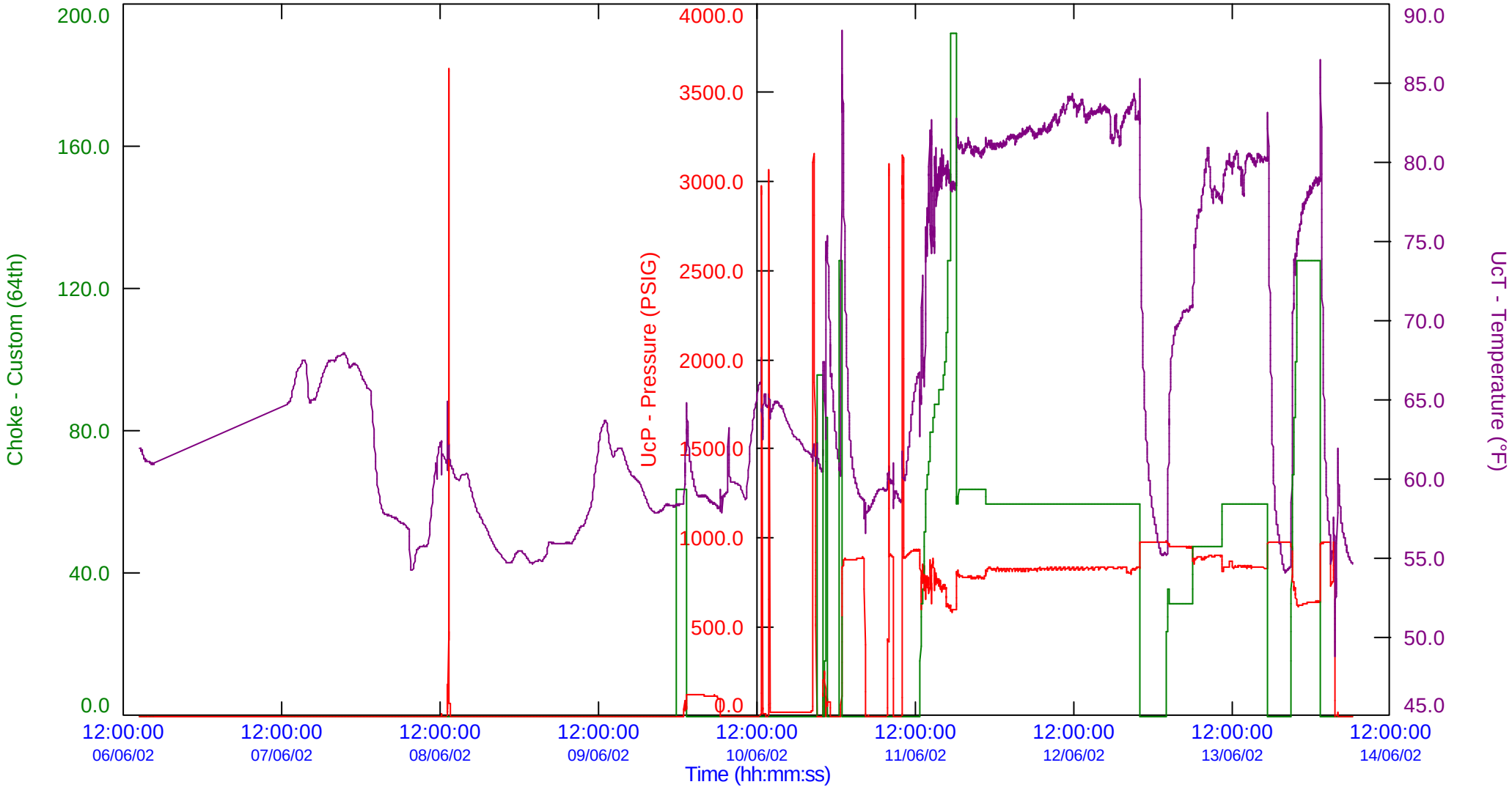
i Flange tap measurements across Daniel Orifice Box.

ii Fpv quoted as 1/2 in Gas Factor Listing

Wellhead Data Listing

Client	OMV Australia PTY LTD.
Well No.	Baleen 3
Test No.	Completion
Location	Ocean Bounty
Start Date	07/06/02
Country	Australia
Field	VIC/L21
Job Number	J02/188
Formation	Gurnard
Exal Engineer	A.Smith/J.Jie
Expro Supervisor	F.Beaton
Expro Test Crew	B.Farley.J.Anstono,C.Neville,J.Stewart,S.Gurmin
Client Engineer	A.Ion,M.Mulliner
Perforations	Open Hole

Client	OMV Australia PTY LTD.	**Data Type**	EDGE Data
Well No.	Baleen 3	**Comments**	Choke Parameters
Test No.	Completion		Entire Test
Location	Ocean Bounty		



Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h

31/05/02

07:00:00 Expro Welltest crew commenced rigging up production test equipment according to approved P&ID.

01/06/02

06:30:00 Continued rigging up and calibrating production test equipment. Unable to rig up pipe flow lines as equipment still onshore.
07:00:00 Checked Expro certification package and equipment manual witnessed by Mike Mulliner (Welltest Engineer).
08:00:00 Inspected that rig flow lines are of welded / flanged construction (not threaded).

02/06/02

06:30:00 Continued rigging up and calibrating production test equipment. Work boat arrived at rig, off loaded Expro equipment.

03/06/02

06:30:00 Continued rigging up and calibrating production test equipment.

04/06/02

06:30:00 Continued rigging up and calibrating production test equipment.
09:00:00 Installed ESD system. Checked Sub Sea Equipment and calculated spaced out for landing string.
10:00:00 ESD signs displayed appropriately and Expro personnel aware of ESD location.
11:00:00 Fire monitors and portable fire extinguishers in place.
12:00:00 Commenced pressure testing on all surface equipment.
12:20:00 Flushed all surface equipment via Fwd and Aft booms until clean.
12:50:00 Test #1 - Full equipment body test to oil and gas diverter manifolds to 500 psi.
13:00:00 Test #2 - Full equipment body test to oil and gas diverter manifolds to 1000 psi.
13:35:00 Test #3 - Full equipment body test and oil manifold to 1000 psi.
13:40:00 Test #4 - Separator body test and gas, oil, water outlet valves to 1000 psi.
13:58:00 Test #5 - Separator inlet and bypass valves to 1000 psi.
14:20:00 Test #6 - Heater coil and bypass valves to 1000 psi.
14:35:00 Test #7 - Heater inlet and bypass valve to 1000 psi.
14:57:00 Test #8 - Forward oil and gas lines to boom burners to 500 psi.
15:10:00 Test #9 - Downstream choke manifold valves to 1000 psi.
15:25:00 Test #10 - Upstream choke manifold valves to 3000 psi.
15:37:00 Test #11 - Sand trap valve to 3000 psi.
15:50:00 Test #12 - Aft oil and gas lines to boom burners to 500 psi.
16:02:00 Test #13 - ESD valve to 3000 psi.

05/06/02

06:30:00 Rigged up air compressors. Adequate spares on location.
08:00:00 Performed separator flowrates meter factor to surge tank. Obtained oil meter factor = 1.005 and water meter factor = 1.007.
09:00:00 Calibrated Hi / Lo pilots against dead weight tester.
13:00:00 Calibrated Barton and with pody and Edge data acquisition system.
14:00:00 Function tested 5 x ESD stations for shutdown speed.
14:05:00 Inspected that walkways and handrails on each burner boom were in safe condition.
14:10:00 Rigged up burner ignition system. Ignition system electrically inspected, buttons accessible and in dry area.
14:20:00 Placed propane bottles out of direct radiated heat path.
14:30:00 Installed burner head orientation optimum for wind direction.
15:00:00 Function tested burner ignition and flareboom deluge systems.

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
05/06/02									
15:40:00	Observed water screen function efficiently with all nozzles clear and free of scale.								
16:00:00	Ran 2" water hoses from rig mud pump to each flareboom.								
17:00:00	Rigged up 3" 1502 pipe on drillfloor from derrick stanpipe to production test line.								
06/06/02									
06:30:00	Calibrated foxboro chart recorder against dead weight tester.								
07:00:00	ESD shutdown time witnessed by Welltest Engineer								
07:05:00	ESD at surge tank 3 seconds.								
07:07:00	ESD at separator 5 seconds.								
07:10:00	ESD at back of Expro lab 5 seconds.								
07:15:00	ESD at rig floor 2 seconds.								
07:20:00	ESD at outside company man office 3 seconds.								
07:25:00	Low ESD pilot at rig floor 8 seconds.								
07:30:00	Low ESD pilot at test area 2 seconds.								
08:00:00	Function tested ESD system on Expro lab.								
09:00:00	Rigged up PVT sampling point.								
10:00:00	Rigged up Annulus pressure probe on rig floor.								
11:00:00	Commenced rigging up Expro Subsea equipment.								
12:00:00	Tested burner ignition system and auxillary pilot.								
13:00:00	Continued general welltest preparation.								
14:00:00	Rigged up steam generator.								
14:33:18	06/06/02	0.0	0.00	61.97	6.23	62.48	26.84		
14:36:00	06/06/02	0.0	1.07	61.97	6.23	62.48	17.43		
14:48:00	06/06/02	0.0	0.26	61.91	6.29	62.43	1463.16		
15:00:00	06/06/02	0.0	0.67	61.72	6.29	62.33	14.16		
15:12:00	06/06/02	0.0	0.67	61.45	5.99	62.18	14.16		
15:24:00	06/06/02	0.0	0.00	61.23	5.56	62.13	16.61		
15:36:00	06/06/02	0.0	0.00	61.20	5.62	62.08	16.20		
16:02:00	06/06/02	0.0	0.26	61.15	6.05	62.06	16.20		
16:12:00	06/06/02	0.0	0.26	61.10	6.05	62.11	16.20		
16:25:00	06/06/02	0.0	0.00	60.99	5.68	62.07	16.61		
16:40:00	06/06/02	0.0	0.00	61.03	5.62	62.13	17.43		
07/06/02									
07:00:00	Function tested steam generator and air compressors.								
08:00:00	Re-checked all ESD shut down stations, water screens, boom pilots, put all fire hoses out around test area.								
08:00:00	Checked fire exstinguishers. Measured out CTLF and extended for job.								
09:00:00	Barriers and signs properly displayed in test area.								
10:00:00	Secured all flow and relief lines adequately whip checked and secured to deck.								
11:00:00	Surface test equipment electrically inspected and in conformance with rig requirements including grounding.								
12:00:00	Started up Expro wireline unit.								
13:00:00	Continued with general welltest preparation.								
13:00:25	07/06/02	0.0	1.56	64.77	0.96	65.91	17.43		
13:15:00	07/06/02	0.0	2.17	64.93	0.77	66.02	17.43		
13:25:00	07/06/02	0.0	1.35	65.03	0.53	66.16	16.61		
13:40:00	07/06/02	0.0	1.15	65.45	0.35	66.49	16.61		
13:50:00	07/06/02	0.0	1.56	65.78	0.96	66.65	16.61		
14:00:00	07/06/02	0.0	1.76	66.05	0.96	66.71	17.43		
14:15:00	07/06/02	0.0	2.17	66.50	1.33	66.89	16.20		
14:25:00	07/06/02	0.0	3.20	66.78	2.31	72.30	16.20		

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
07/06/02									
14:40:00	07/06/02	0.0	4.01	66.99	1.94	72.81	16.20		
14:50:00	07/06/02	0.0	2.79	67.09	1.45	70.56	16.20		
15:00:00	07/06/02	0.0	2.79	67.21	1.39	69.94	16.20		
15:00:00	Picked up LLSA to rig floor.								
15:15:00	07/06/02	0.0	2.79	67.52	1.08	69.24	15.80		
15:25:00	07/06/02	0.0	3.60	67.58	1.63	68.82	16.20		
15:30:00	Held JHA prior to picking up SSTT.								
15:40:00	07/06/02	0.0	2.38	67.48	1.45	68.23	15.80		
15:50:00	07/06/02	0.0	6.06	67.29	1.76	67.98	15.80		
15:50:00	Picked up and function tested SSTT.								
16:00:00	07/06/02	0.0	2.99	66.07	0.71	67.22	16.20		
16:15:00	07/06/02	0.0	1.56	65.07	0.10	66.92	15.80		
16:24:00	Made up and function tested THRT.								
16:25:00	07/06/02	0.0	0.94	64.84	0.00	66.99	15.80		
16:40:00	07/06/02	0.0	1.97	65.00	0.71	67.11	16.20		
16:50:00	07/06/02	0.0	1.97	65.02	0.47	67.04	15.80		
17:00:00	07/06/02	0.0	1.56	65.10	0.47	67.00	15.80		
17:00:00	Commenced RIH with 7" landing string.								
17:15:00	07/06/02	0.0	0.94	65.18	0.10	67.03	16.20		
17:20:00	Stopped operations to modify slips.								
17:25:00	07/06/02	0.0	1.56	65.42	0.47	67.10	15.80		
17:40:00	07/06/02	0.0	1.35	65.70	0.53	67.21	15.80		
17:50:00	07/06/02	0.0	1.15	65.92	0.16	67.30	15.80		
18:00:00	07/06/02	0.0	1.56	66.17	0.22	67.44	16.20		
18:15:00	07/06/02	0.0	1.56	66.50	0.22	67.67	16.20		
18:25:00	07/06/02	0.0	1.76	66.68	0.59	67.78	16.61		
18:40:00	07/06/02	0.0	1.56	66.92	0.53	67.96	16.20		
18:40:00	Resumed RIH operations.								
18:45:00	Held JHA prior to picking up SSLV.								
18:50:00	07/06/02	0.0	1.35	67.14	0.59	68.12	16.20		
19:00:00	07/06/02	0.0	1.56	67.27	0.41	68.24	16.20		
19:15:00	07/06/02	0.0	1.97	67.51	0.65	68.33	16.20		
19:25:00	07/06/02	0.0	1.35	67.53	0.59	68.45	16.20		
19:40:00	07/06/02	0.0	2.17	67.54	0.59	68.44	16.20		
19:50:00	07/06/02	0.0	1.35	67.57	0.28	68.43	15.80		
20:00:00	07/06/02	0.0	1.76	67.51	0.22	68.44	16.20		
20:00:00	Picked up SSLV.								
20:15:00	07/06/02	0.0	1.15	67.56	0.10	68.54	16.20		
20:25:00	07/06/02	0.0	1.15	67.69	0.22	68.61	16.20		
20:40:00	07/06/02	0.0	1.76	67.80	0.53	68.68	16.20		
20:50:00	07/06/02	0.0	1.76	67.83	0.59	68.72	16.20		
20:50:00	TRSCSSV pressure lost, commenced POOH operations.								
21:00:00	07/06/02	0.0	1.56	67.84	0.22	68.81	16.20		
21:15:00	07/06/02	0.0	1.35	67.90	0.53	68.86	16.20		
21:25:00	07/06/02	0.0	1.76	67.96	0.59	68.83	16.20		
21:40:00	07/06/02	0.0	2.17	68.02	0.90	68.83	16.20		
21:50:00	07/06/02	0.0	2.17	67.86	0.65	68.76	16.20		
22:00:00	07/06/02	0.0	1.76	67.68	0.59	68.56	16.20		
22:10:00	Slick joint at surface, good test on all umbilical lines.								
22:15:00	07/06/02	0.0	1.97	67.24	0.53	68.36	16.20		
22:25:00	07/06/02	0.0	1.15	67.11	0.28	68.35	16.20		
22:40:00	07/06/02	0.0	1.35	67.17	0.22	68.43	16.20		

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
07/06/02									
22:40:00	Hanger at surface, SSSV ring/stab set, commenced reset/repair.								
22:50:00	07/06/02	0.0	1.97	67.30	0.96	68.51	15.80		
23:00:00	07/06/02	0.0	1.76	67.36	0.90	68.51	16.20		
23:15:00	07/06/02	0.0	1.56	67.30	0.59	68.57	15.80		
23:25:00	07/06/02	0.0	1.56	67.25	0.96	68.55	15.80		
23:40:00	07/06/02	0.0	1.56	67.13	0.96	68.32	15.80		
23:50:00	07/06/02	0.0	1.76	66.99	0.59	68.24	16.20		
08/06/02									
00:00:00	08/06/02	0.0	1.97	66.84	0.96	68.17	16.20		
00:15:00	08/06/02	0.0	1.56	66.56	0.53	67.98	16.20		
00:25:00	08/06/02	0.0	1.76	66.37	0.47	67.90	16.20		
00:40:00	08/06/02	0.0	2.58	66.23	1.20	67.74	16.20		
00:45:00	Repaired TRSCSSV, stabbed on tubing hanger and obtained good test.								
00:50:00	08/06/02	0.0	1.97	66.06	0.53	67.53	16.20		
01:00:00	08/06/02	0.0	1.56	65.90	0.59	67.40	16.20		
01:00:00	Changed out slips and commenced RIH operations.								
01:15:00	08/06/02	0.0	1.35	65.75	0.84	67.26	16.20		
01:25:00	08/06/02	0.0	1.76	65.74	0.41	67.13	16.20		
01:40:00	08/06/02	0.0	4.62	65.31	1.94	66.44	16.61		
01:50:00	08/06/02	0.0	3.40	64.26	1.51	65.45	16.20		
02:00:00	08/06/02	0.0	2.38	63.15	0.96	64.53	16.61		
02:15:00	08/06/02	0.0	1.97	61.59	0.22	63.16	16.20		
02:20:00	Made up and function tested SSLV.								
02:25:00	08/06/02	0.0	2.38	60.74	0.16	62.39	15.80		
02:40:00	08/06/02	0.0	1.97	59.72	0.28	61.36	15.39		
02:50:00	08/06/02	0.0	1.97	59.21	0.00	60.80	14.98		
03:00:00	08/06/02	0.0	1.76	58.75	0.00	60.33	15.39		
03:05:00	Made up circulating head to pup joint in landing string.								
03:15:00	08/06/02	0.0	1.35	58.22	0.00	59.69	14.57		
03:25:00	08/06/02	0.0	1.56	58.00	0.00	59.42	14.98		
03:40:00	08/06/02	0.0	1.56	57.91	0.00	59.12	14.57		
03:50:00	08/06/02	0.0	1.76	57.83	0.00	58.97	14.98		
03:55:00	Made up kill line to circulation head.								
04:00:00	08/06/02	0.0	1.76	57.78	0.00	58.87	14.57		
04:10:00	Circulated through completion and stung into packer seal bore PBR , checked space out.								
04:15:00	08/06/02	0.0	1.56	57.78	0.00	58.76	14.98		
04:25:00	08/06/02	0.0	1.76	57.74	0.00	58.75	14.57		
04:40:00	08/06/02	0.0	1.97	57.74	0.00	58.70	14.57		
04:50:00	08/06/02	0.0	2.17	57.68	0.22	58.70	14.57		
04:50:00	Broke out circulation head and laid out.								
05:00:00	08/06/02	0.0	1.97	57.67	0.22	58.60	14.98		
05:05:00	Closed TRSCSSV to stop completion flowback.								
05:15:00	08/06/02	0.0	1.76	57.57	0.00	58.48	14.57		
05:15:00	Rigged up 5" elevators to pick up coil tubing lifting frame.								
05:25:00	08/06/02	0.0	2.17	57.61	0.28	58.42	14.57		
05:30:00	Held JHA prior to rigging up coil tubing and flowhead.								
05:40:00	08/06/02	0.0	1.97	57.49	0.00	58.34	15.80		
05:50:00	08/06/02	0.0	2.38	57.39	0.16	58.37	15.39		
06:00:00	08/06/02	0.0	1.76	57.33	0.28	58.39	14.57		
06:15:00	08/06/02	0.0	1.97	57.28	0.28	58.39	14.57		

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
08/06/02									
06:25:00	08/06/02	0.0	1.76	57.24	0.22	58.42	14.98		
06:30:00	Picked up CTLF and made up to short bails.								
06:40:00	08/06/02	0.0	1.76	57.23	0.59	58.43	14.57		
06:50:00	08/06/02	0.0	1.76	57.13	0.53	58.37	14.57		
07:00:00	08/06/02	0.0	1.97	57.07	0.53	58.33	14.98		
07:00:00	Isolated air supply to test separator from other users.								
07:10:00	Flow lines and valves clearly labeled.								
07:15:00	08/06/02	0.0	2.38	56.93	0.22	58.21	14.98		
07:20:00	Picked up flow coflexip hose and made up to production derrick standpipe.								
07:25:00	08/06/02	0.0	5.65	56.42	2.25	57.76	14.98		
07:40:00	08/06/02	0.0	0.94	54.52	0.00	56.44	14.98		
07:50:00	08/06/02	0.0	1.15	54.31	0.00	56.25	14.57		
08:00:00	08/06/02	0.0	1.97	54.44	0.22	56.22	14.98		
08:15:00	08/06/02	0.0	1.56	54.87	0.28	56.28	14.57		
08:25:00	08/06/02	0.0	1.97	55.24	0.00	56.38	14.57		
08:25:00	Made up flowhead to CTLF.								
08:40:00	08/06/02	0.0	2.38	55.56	0.28	56.48	14.57		
08:45:00	Inspected surface test tree for loose fittings, needle valve handles prior to picking up to rig floor.								
08:50:00	08/06/02	0.0	1.76	55.65	0.00	56.93	14.57		
09:00:00	08/06/02	0.0	2.17	55.72	0.04	57.89	14.57		
09:05:00	Held JHA prior to picking up CTLF with flowhead.								
09:15:00	08/06/02	0.0	2.17	55.82	0.59	58.72	14.98		
09:25:00	08/06/02	0.0	2.17	55.82	1.26	59.53	14.57		
09:40:00	08/06/02	0.0	2.38	55.85	1.20	60.26	14.98		
09:45:00	Picked up CTLF with flowhead and made up to landing string.								
09:50:00	08/06/02	0.0	2.17	55.83	0.96	60.75	14.98		
10:00:00	08/06/02	0.0	2.17	55.85	1.57	60.99	14.57		
10:15:00	08/06/02	0.0	1.76	55.94	1.20	60.43	14.98		
10:25:00	08/06/02	0.0	2.17	56.17	0.47	60.07	14.98		
10:40:00	08/06/02	0.0	3.20	57.31	0.53	59.46	14.98		
10:50:00	08/06/02	0.0	2.58	58.18	0.00	59.28	14.57		
11:00:00	08/06/02	0.0	2.99	59.03	0.53	59.17	14.98		
11:15:00	08/06/02	0.0	2.38	60.20	0.41	59.23	14.57		
11:25:00	08/06/02	0.0	3.20	60.83	0.65	59.67	14.16		
11:40:00	08/06/02	0.0	4.21	60.86	1.94	59.80	14.57		
11:40:00	Closed SSTT upper ball valve.								
11:50:00	08/06/02	0.0	3.81	61.69	1.63	59.46	14.57		
12:00:00	08/06/02	0.0	4.01	62.05	1.57	59.34	14.57		
12:00:00	Closed flow wing valve.								
12:12:00	08/06/02	0.0	4.01	62.33	1.51	59.21	14.57		
12:20:00	Commenced pressure testing against rig lo-torque valve to 3500 psi.								
12:25:00	08/06/02	0.0	3.60	61.64	0.90	61.01	14.98		
12:27:00	Good test. Bled off pressure.								
12:40:00	08/06/02	0.0	3.40	61.55	0.65	60.36	14.98		
12:40:00	Commenced pressure testing against kill line valve to 3500 psi.								
12:47:00	Good test. Bled off pressure.								
12:50:00	08/06/02	0.0	2.79	61.30	0.65	60.16	14.57		
12:50:00	Commenced pressure testing against swab, flow wing, and SSTT upper ball valves to 300 / 3500 psi .								
13:00:00	08/06/02	0.0	2.58	61.19	0.00	60.13	14.16		
13:03:00	Good test. Bled off pressure.								

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
08/06/02									
13:12:00	08/06/02	0.0	4.01	60.60	1.26	60.36	14.98		
13:15:00	Opened flow wing and SSTT upper ball valves.								
13:16:00	Closed choke manifold.								
13:17:00	Closed SSLV.								
13:20:00	Commenced pressure testing against choke manifold and SSLV to 300 / 3500 psi.								
13:24:00	08/06/02	0.0	433.93	61.45	0.00	62.07	14.57		
13:32:00	Good test. Bled off pressure.								
13:35:00	Closed flow wing and STT master valves. Opened SSLV.								
13:36:00	08/06/02	0.0	78.83	61.12	0.00	61.77	14.98		
13:36:00	Opened choke manifold.								
13:37:00	Commenced pressure testing against flow wing and master valves to 300 / 3500 psi.								
13:48:00	08/06/02	0.0	3.60	60.83	1.20	61.41	14.57		
13:48:00	Good test. Bled off pressure.								
13:50:00	Closed choke manifold.								
14:00:00	08/06/02	0.0	4.62	60.71	2.31	61.26	14.98		
14:00:00	Opened STT master valve.								
14:05:00	Commenced circulating 240 bbls of brine at 4 bpm to clean filtered inhibited completion brine.								
14:15:00	08/06/02	0.0	2.17	60.29	0.84	61.05	14.57		
14:25:00	08/06/02	0.0	3.40	60.17	1.26	60.98	14.98		
14:40:00	08/06/02	0.0	2.99	60.07	0.96	60.88	14.98		
14:50:00	08/06/02	0.0	3.40	60.04	1.82	60.77	14.98		
15:00:00	08/06/02	0.0	3.20	59.95	0.59	60.71	15.39		
15:05:00	Completed circulating.								
15:15:00	08/06/02	0.0	3.40	60.21	1.26	60.91	14.57		
15:16:00	Bled off pressure above SSSV.								
15:20:00	Commenced landing tubing hanger as per Cameron procedures.								
15:25:00	08/06/02	0.0	3.81	60.31	1.57	60.91	14.57		
15:40:00	08/06/02	0.0	3.20	60.29	2.00	60.76	14.57		
15:50:00	08/06/02	0.0	4.01	60.36	1.20	60.72	13.34		
16:00:00	08/06/02	0.0	3.20	60.39	0.53	60.83	14.98		
16:00:00	Function and pressure tested TRSCSSV.								
16:15:00	08/06/02	0.0	2.79	60.36	0.96	60.63	3355.79		
16:25:00	08/06/02	0.0	3.20	60.10	1.45	60.43	13.75		
16:40:00	08/06/02	0.0	2.58	59.61	2.19	60.25	14.16		
16:50:00	08/06/02	0.0	2.17	59.33	1.26	60.16	13.75		
17:00:00	08/06/02	0.0	2.38	59.02	0.84	59.95	13.75		
17:15:00	08/06/02	0.0	2.99	58.64	0.84	59.68	15.80		
17:25:00	08/06/02	0.0	2.17	58.42	0.77	59.53	14.98		
17:40:00	08/06/02	0.0	2.99	58.14	0.96	59.31	14.16		
17:45:00	Opened annular valve and commenced pressure testing tubing hanger as per Cameron procedures.								
17:50:00	08/06/02	0.0	2.99	57.96	0.90	59.21	1474.61		
18:00:00	08/06/02	0.0	2.38	57.83	0.90	58.99	39.10		
18:15:00	08/06/02	0.0	3.40	57.63	0.71	58.76	378.46		
18:25:00	08/06/02	0.0	2.99	57.50	0.77	58.63	2933.43		
18:40:00	08/06/02	0.0	2.79	57.25	0.53	58.41	8.03		
18:40:00	Completed pressure testing tubing hanger, closed annular valve.								
18:45:00	Commenced rigging up coil tubing.								
18:50:00	08/06/02	0.0	3.40	57.18	0.41	58.34	7.21		
18:52:00	Closed STT master valve.								

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
08/06/02									
19:00:00	08/06/02	0.0	2.79	57.01	0.96	58.17	8.03		
19:00:00	Held JHA prior to rigging up coil tubing unit.								
19:15:00	08/06/02	0.0	2.58	56.79	1.02	57.98	7.61		
19:15:00	Commenced rigging up coil tubing unit.								
19:25:00	08/06/02	0.0	2.99	56.60	0.90	57.87	8.03		
19:40:00	08/06/02	0.0	2.79	56.39	0.65	57.60	8.03		
19:50:00	08/06/02	0.0	2.79	56.26	0.96	57.45	8.03		
20:00:00	08/06/02	0.0	2.58	56.11	0.71	57.24	7.61		
20:00:00	Welltest engineer verified that lighting adequate at night in welltest area.								
20:15:00	08/06/02	0.0	2.58	55.89	0.04	57.14	7.61		
20:25:00	08/06/02	0.0	2.58	55.77	0.47	57.02	7.61		
20:40:00	08/06/02	0.0	2.17	55.61	0.77	56.86	7.61		
20:50:00	08/06/02	0.0	2.58	55.49	0.77	56.69	7.61		
21:00:00	08/06/02	0.0	2.38	55.41	0.41	56.59	8.43		
21:15:00	08/06/02	0.0	2.58	55.31	0.59	56.44	8.43		
21:25:00	08/06/02	0.0	2.99	55.20	0.16	56.34	8.03		
21:40:00	08/06/02	0.0	3.20	55.09	0.41	56.20	8.84		
21:50:00	08/06/02	0.0	2.79	54.98	0.47	56.12	8.03		
22:00:00	08/06/02	0.0	2.99	54.88	0.77	56.06	8.03		
22:15:00	08/06/02	0.0	2.38	54.79	0.84	55.84	8.43		
22:25:00	08/06/02	0.0	2.38	54.76	0.16	55.87	8.43		
22:40:00	08/06/02	0.0	2.38	54.80	0.22	55.79	8.43		
22:50:00	08/06/02	0.0	2.38	54.79	0.35	55.73	8.43		
23:00:00	08/06/02	0.0	2.38	54.81	0.16	55.72	8.84		
23:15:00	08/06/02	0.0	1.97	55.04	0.00	55.84	8.43		
23:25:00	08/06/02	0.0	2.58	55.23	0.22	55.93	8.84		
23:40:00	08/06/02	0.0	2.38	55.34	0.47	55.90	8.84		
23:50:00	08/06/02	0.0	2.38	55.44	0.53	56.00	8.84		
09/06/02									
00:00:00	09/06/02	0.0	2.38	55.49	0.59	56.01	8.43		
00:15:00	09/06/02	0.0	2.79	55.55	0.47	56.14	8.84		
00:25:00	09/06/02	0.0	2.58	55.52	0.77	56.06	8.43		
00:40:00	09/06/02	0.0	2.79	55.41	0.59	55.96	8.43		
00:50:00	09/06/02	0.0	2.79	55.33	0.47	55.89	8.43		
01:00:00	09/06/02	0.0	2.38	55.23	0.84	55.79	8.43		
01:00:00	Closed SSSV.								
01:05:00	Opened master valve on STT to enable actuator stem to be pushed in to protect from injector head.								
01:15:00	09/06/02	0.0	2.58	55.07	0.53	55.65	8.43		
01:20:00	Temporarily stopped coil tubing rig up due to maximum 16 hour work safety restriction.								
01:25:00	09/06/02	0.0	2.58	54.98	0.16	55.61	8.43		
01:40:00	09/06/02	0.0	2.58	54.82	0.47	55.51	8.84		
01:50:00	09/06/02	0.0	2.58	54.79	0.59	55.39	8.84		
02:00:00	09/06/02	0.0	2.38	54.74	0.53	55.40	9.25		
02:15:00	09/06/02	0.0	2.38	54.75	0.53	55.38	9.25		
02:25:00	09/06/02	0.0	2.38	54.81	0.10	55.36	8.43		
02:40:00	09/06/02	0.0	2.99	54.86	0.22	55.45	8.84		
02:50:00	09/06/02	0.0	2.79	54.90	0.35	55.41	9.25		
03:00:00	09/06/02	0.0	2.58	54.93	0.35	55.47	8.43		
03:15:00	09/06/02	0.0	2.79	54.98	0.53	55.41	8.43		

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
09/06/02									
03:25:00	09/06/02	0.0	2.58	54.86	0.22	55.40	8.43		
03:40:00	09/06/02	0.0	2.58	54.91	0.47	55.41	8.43		
03:50:00	09/06/02	0.0	2.38	55.02	0.22	55.56	8.43		
04:00:00	09/06/02	0.0	2.38	55.17	0.53	55.56	8.43		
04:15:00	09/06/02	0.0	1.97	55.35	0.16	55.77	8.43		
04:25:00	09/06/02	0.0	2.17	55.69	0.16	55.96	8.03		
04:40:00	09/06/02	0.0	2.58	56.05	0.84	56.14	8.43		
04:50:00	09/06/02	0.0	2.99	56.05	0.47	56.14	8.43		
05:00:00	09/06/02	0.0	2.79	55.99	0.47	56.17	8.43		
05:15:00	09/06/02	0.0	2.99	56.04	0.22	56.21	8.43		
05:25:00	09/06/02	0.0	2.58	55.96	0.47	56.26	8.43		
05:40:00	09/06/02	0.0	2.38	56.00	0.53	56.25	8.43		
05:50:00	09/06/02	0.0	2.99	55.98	0.47	56.32	8.84		
06:00:00	09/06/02	0.0	2.58	55.98	0.59	56.33	8.84		
06:15:00	09/06/02	0.0	2.38	55.99	0.71	56.34	8.84		
06:25:00	09/06/02	0.0	2.17	56.01	0.10	56.33	8.84		
06:40:00	09/06/02	0.0	2.58	55.95	0.65	56.39	8.84		
06:50:00	09/06/02	0.0	2.58	55.96	0.84	56.44	8.84		
07:00:00	09/06/02	0.0	2.17	56.00	0.71	56.47	8.43		
07:15:00	09/06/02	0.0	2.38	56.01	0.53	56.43	8.43		
07:25:00	09/06/02	0.0	2.99	56.00	0.47	56.48	9.25		
07:40:00	09/06/02	0.0	2.58	55.96	0.00	56.48	9.25		
07:50:00	09/06/02	0.0	3.20	56.00	0.00	56.49	9.25		
08:00:00	09/06/02	0.0	2.38	55.94	0.00	56.50	8.84		
08:00:00	Resumed rigging up coil tubing.								
08:15:00	09/06/02	0.0	2.17	56.12	0.00	56.63	8.84		
08:25:00	09/06/02	0.0	2.79	56.23	0.00	56.70	9.25		
08:40:00	09/06/02	0.0	3.20	56.44	0.00	56.98	9.25		
08:50:00	09/06/02	0.0	3.40	56.58	0.16	57.12	8.84		
09:00:00	09/06/02	0.0	2.99	56.68	0.00	57.42	9.25		
09:15:00	09/06/02	0.0	2.79	56.97	0.77	58.27	8.84		
09:25:00	09/06/02	0.0	3.20	57.04	0.22	58.42	9.25		
09:40:00	09/06/02	0.0	3.20	57.08	0.00	59.21	9.25		
09:50:00	09/06/02	0.0	2.79	57.12	0.59	59.67	8.84		
10:00:00	09/06/02	0.0	3.20	57.29	0.96	59.59	8.84		
10:15:00	09/06/02	0.0	3.20	57.56	0.90	59.67	9.25		
10:25:00	09/06/02	0.0	2.79	57.69	0.65	59.69	9.25		
10:25:00	Commenced pressure testing coil tubing unit as per BJ programme.								
10:40:00	09/06/02	0.0	2.58	57.96	0.65	59.78	8.84		
10:50:00	09/06/02	0.0	2.99	58.20	0.59	59.94	8.84		
11:00:00	09/06/02	0.0	2.38	58.47	0.59	59.98	8.84		
11:15:00	09/06/02	0.0	2.38	59.17	0.22	60.25	9.25		
11:25:00	09/06/02	0.0	3.81	60.04	0.96	60.64	9.25		
11:40:00	09/06/02	0.0	4.21	60.69	0.90	61.01	9.66		
11:50:00	09/06/02	0.0	2.99	61.12	0.59	60.93	9.25		
12:00:00	09/06/02	0.0	4.01	61.79	0.28	60.86	9.25		
12:15:00	09/06/02	0.0	4.01	62.55	0.53	60.77	9.25		
12:25:00	09/06/02	0.0	4.01	62.94	0.41	60.76	9.25		
12:30:00	Conducted final inspection of welltest equipment by OIM, Well Site Manager, Rig Superintendent and Welltest Engineer.								
12:33:00	Opened production wing valve on STT.								
12:35:00	Function tested 5 x ESD system .								

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
09/06/02									
12:40:00	09/06/02	0.0	2.79	63.31	0.28	60.77	9.66		
12:40:00	All low pressure pilots closed and isolated. All needle valves on sample points and vents closed.								
12:45:00	Air intakes and vents opened / closed as appropriate.								
12:50:00	09/06/02	0.0	2.38	63.43	0.59	60.71	9.25		
13:00:00	09/06/02	0.0	2.79	63.68	0.00	60.74	9.25		
13:15:00	09/06/02	0.0	4.21	63.69	0.28	60.93	9.66		
13:25:00	09/06/02	0.0	4.21	63.35	1.33	61.05	9.25		
13:40:00	09/06/02	0.0	3.60	62.60	0.96	61.07	9.66		
13:50:00	09/06/02	0.0	2.38	62.20	0.84	61.16	9.66		
13:55:00	Closed SSLV.								
14:00:00	09/06/02	0.0	2.38	61.85	1.02	61.28	9.25		
14:10:00	Opened SSSV.								
14:15:00	09/06/02	0.0	1.76	61.48	0.35	61.51	9.25		
14:25:00	09/06/02	0.0	1.15	61.46	0.00	61.64	9.25		
14:40:00	09/06/02	0.0	3.40	61.77	0.71	61.91	9.66		
14:50:00	09/06/02	0.0	2.58	61.85	0.96	62.05	10.06		
15:00:00	09/06/02	0.0	3.20	61.93	1.26	62.27	9.25		
15:00:00	Closed SSLV.								
15:15:00	09/06/02	0.0	2.99	61.97	0.65	62.43	9.25		
15:25:00	09/06/02	0.0	3.20	61.96	0.59	62.48	9.66		
15:40:00	09/06/02	0.0	3.20	61.97	1.82	62.35	9.66		
15:50:00	09/06/02	0.0	3.20	61.72	1.20	62.28	9.66		
16:00:00	09/06/02	0.0	2.38	61.46	1.02	62.08	10.48		
16:00:00	Stabbed coil tubing injector head onto test string.								
16:15:00	09/06/02	0.0	2.38	61.18	0.65	61.90	10.06		
16:25:00	09/06/02	0.0	2.38	60.97	0.59	61.80	10.06		
16:33:00	Commenced pressure testing coil tubing BOP against swab valve to 3000 psi.								
16:35:00	Observed leak. Bled off pressure via Halliburton unit.								
16:40:00	09/06/02	0.0	1.76	60.69	0.65	61.63	10.06		
16:45:00	Started main air compressor on load, standby unit idling. Commenced diesel auxillary testing at aft burner boom.								
16:50:00	09/06/02	0.0	1.76	60.55	2.00	61.52	10.06		
16:55:00	Commenced diesel auxillary testing at aft burner boom.								
17:00:00	09/06/02	0.0	1.76	60.33	1.51	61.41	10.06		
17:00:00	Started steam generator.								
17:05:00	Opened SSLV.								
17:10:00	Stopped compressors and steam generator.								
17:10:00	Rigged down coil tubing injector head and BOP's to replace seals. Commenced redressing SRO gauge cable head.								
17:15:00	09/06/02	0.0	1.76	60.23	2.49	61.25	10.06		
17:25:00	09/06/02	0.0	2.38	60.18	2.31	61.23	10.06		
17:30:00	Continued rigging up CTU BOP and injector head.								
17:40:00	09/06/02	0.0	1.56	60.09	2.37	61.07	10.06		
17:50:00	09/06/02	0.0	1.76	60.02	2.31	61.03	10.06		
18:00:00	09/06/02	0.0	1.76	59.94	1.76	60.96	10.06		
18:15:00	09/06/02	0.0	1.97	59.89	2.00	60.83	9.66		
18:25:00	09/06/02	0.0	1.76	59.77	2.00	60.70	10.06		
18:40:00	09/06/02	0.0	2.38	59.55	1.57	60.51	9.66		
18:50:00	09/06/02	0.0	2.38	59.34	1.57	60.33	10.06		
19:00:00	09/06/02	0.0	2.58	59.17	1.20	60.23	9.66		
19:15:00	09/06/02	0.0	2.38	58.83	1.14	59.99	10.06		

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
09/06/02									
19:25:00	09/06/02	0.0	1.97	58.61	1.20	59.88	9.66		
19:40:00	09/06/02	0.0	1.97	58.43	1.45	59.64	9.66		
19:50:00	09/06/02	0.0	1.56	58.23	1.20	59.55	9.25		
20:00:00	09/06/02	0.0	2.17	58.20	1.26	59.39	9.25		
20:15:00	09/06/02	0.0	1.97	58.05	0.90	59.19	10.06		
20:25:00	09/06/02	0.0	1.97	57.99	0.90	59.10	10.06		
20:40:00	09/06/02	0.0	2.17	57.96	1.08	58.94	10.06		
20:50:00	09/06/02	0.0	2.17	57.88	1.20	58.88	9.66		
21:00:00	09/06/02	0.0	1.76	57.91	2.49	58.90	9.25		
21:15:00	09/06/02	0.0	1.97	57.95	2.12	58.90	10.06		
21:25:00	09/06/02	0.0	1.97	58.01	2.55	58.92	9.66		
21:40:00	09/06/02	0.0	1.76	58.07	2.12	58.94	9.25		
21:48:00	09/06/02	0.0	1.56	58.15	2.12	58.96	8.84		
22:00:00	09/06/02	0.0	1.97	58.27	2.43	59.06	9.25		
22:12:00	09/06/02	0.0	2.17	58.38	2.55	59.06	8.84		
22:24:00	09/06/02	0.0	2.17	58.47	2.12	59.15	8.84		
22:36:00	09/06/02	0.0	2.17	58.39	2.12	59.13	8.84		
22:43:00	Connected SRO and memory gauges to toolstring.								
22:45:00	Stabbed coil tubing injector head onto test string.								
22:48:00	09/06/02	0.0	2.38	58.38	2.37	59.10	9.25		
23:00:00	09/06/02	0.0	1.76	58.41	2.55	59.06	8.84		
23:12:00	09/06/02	0.0	2.38	58.38	2.31	59.12	9.25		
23:19:00	Commenced pressure testing CTU BOP and flowhead connection to 3000 psi.								
23:24:00	09/06/02	0.0	1.56	58.33	2.19	59.10	9.66		
23:36:00	09/06/02	0.0	1.56	58.32	2.12	59.08	9.25		
23:48:00	09/06/02	0.0	2.38	58.36	2.12	59.06	9.25		
23:53:00	Opened well to surge tank on 64/64th adjustable choke. Coil tubing commenced RIH @10m/min.								
10/06/02									
00:00:00	10/06/02	64.0	2.99	58.38	0.71	59.06	9.25		
00:12:00	10/06/02	64.0	2.58	58.43	0.47	58.99	9.25		
00:24:00	10/06/02	64.0	1.76	58.47	0.47	59.12	8.84		
00:30:00	Coil tubing hung up at tubing hanger depth.								
00:36:00	10/06/02	64.0	1.97	58.47	0.35	59.10	8.84		
00:48:00	10/06/02	64.0	2.38	58.48	0.47	59.37	9.25		
00:55:00	Coil tubing at depth 251.4 m, commenced pumping nitrogen @ 300 scf/m.								
01:00:00	10/06/02	64.0	2.17	58.50	0.28	59.24	8.84		
01:03:00	Return rate at surge tank = 2016 bbl/d.								
01:04:00	Return rate at surge tank = 7344 bbl/d.								
01:05:00	Coil tubing commenced RIH, return rate at choke manifold = 1008 bbl/d.								
01:06:00	Return rate at surge tank = 2016 bbl/d.								
01:07:00	Return rate at surge tank = 1584 bbl/d.								
01:08:00	Return rate at surge tank = 1872 bbl/d.								
01:09:00	Return rate at surge tank = 1152 bbl/d.								
01:09:00	Coil tubing at tubing hanger depth.								
01:10:00	Return rate at surge tank = 2304 bbl/d.								
01:11:00	Return rate at surge tank = 1584 bbl/d.								
01:12:00	10/06/02	64.0	55.73	60.10	38.80	60.22	8.84		
01:12:00	Return rate at surge tank = 1872 bbl/d.								
01:13:00	Return rate at surge tank = 1296 bbl/d.								
01:14:00	Return rate at surge tank = 2160 bbl/d.								

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
10/06/02									
01:15:00	Return rate at surge tank = 1296 bbl/d.								
01:16:00	Return rate at surge tank = 2304 bbl/d.								
01:17:00	Return rate at surge tank = 1296 bbl/d.								
01:18:00	Return rate at surge tank = 1872 bbl/d.								
01:19:00	Return rate at surge tank = 1440 bbl/d.								
01:20:00	Return rate at surge tank = 576 bbl/d.								
01:22:00	Coil tubing stopped pumping N2 and commenced POOH.								
01:24:00	10/06/02	64.0	43.47	62.96	32.54	62.66	9.66		
01:25:00	Shut in well at choke manifold. Total returns = 23.9bbls.								
01:36:00	10/06/02	0.0	129.33	63.26	0.22	62.40	8.84		
01:48:00	10/06/02	0.0	128.51	61.93	0.28	61.66	8.84		
01:48:00	Coil tubing at surface.								
01:50:00	Closed SSLV.								
02:00:00	10/06/02	0.0	128.92	61.16	0.16	61.15	9.25		
02:12:00	10/06/02	0.0	128.10	60.54	0.28	60.71	9.25		
02:18:00	Commenced replacing gauge toolstring with jet nozzle.								
02:24:00	10/06/02	0.0	128.10	60.10	0.22	60.38	10.06		
02:36:00	10/06/02	0.0	127.69	59.72	0.35	60.06	9.66		
02:48:00	10/06/02	0.0	127.08	59.39	0.28	59.83	10.06		
03:00:00	10/06/02	0.0	126.06	59.14	0.28	59.63	9.66		
03:12:00	10/06/02	0.0	125.44	58.98	0.04	59.50	9.66		
03:24:00	10/06/02	0.0	125.44	58.93	0.00	59.48	10.06		
03:36:00	10/06/02	0.0	124.42	58.97	0.22	59.44	8.84		
03:48:00	10/06/02	0.0	124.01	58.99	0.16	59.44	9.25		
04:00:00	10/06/02	0.0	123.60	59.01	0.22	59.39	8.84		
04:12:00	10/06/02	0.0	122.99	58.99	0.22	59.29	9.25		
04:24:00	10/06/02	0.0	122.59	58.96	0.00	59.21	9.25		
04:32:00	Jet nozzle installed on toolstring, brine circulated through coil tubing at surface.								
04:36:00	10/06/02	0.0	121.97	58.86	0.16	59.12	9.25		
04:48:00	10/06/02	0.0	120.33	58.74	0.22	59.06	9.25		
05:00:00	10/06/02	0.0	119.92	58.69	0.16	58.92	9.25		
05:00:00	Stabbed on injector head and lubricator onto test string.								
05:12:00	10/06/02	0.0	118.91	58.63	0.22	58.79	9.25		
05:24:00	10/06/02	0.0	118.29	58.52	0.00	58.64	9.25		
05:30:00	Commenced pressure testing CTU BOP and flowhead connection to 3000 psi.								
05:32:00	Good test. Bled off pressure.								
05:35:00	Opened SSLV.								
05:36:00	10/06/02	0.0	123.81	58.58	0.16	58.55	8.84		
05:38:00	Opened swab valve.								
05:45:00	Coil tubing commenced RIH.								
05:48:00	10/06/02	0.0	122.99	58.44	0.00	58.45	9.25		
06:00:00	10/06/02	0.0	120.54	58.36	0.00	58.42	9.25		
06:12:00	10/06/02	0.0	108.07	58.17	0.00	58.36	8.84		
06:20:00	Coil tubing hung up at tubing hanger depth.								
06:24:00	10/06/02	0.0	101.12	58.29	0.00	58.33	8.84		
06:35:00	Bled off pressure via choke manifold to surge tank. Rigged up 2" line from Expro surge tank to mud pit.								
06:36:00	10/06/02	0.0	83.13	57.98	1.39	58.36	8.84		
06:48:00	10/06/02	0.0	2.38	58.88	0.10	58.77	10.06		
07:00:00	10/06/02	0.0	2.17	58.94	0.10	58.72	9.25		
07:12:00	10/06/02	0.0	2.17	59.04	0.10	58.80	9.66		
07:25:00	10/06/02	0.0	2.38	59.14	0.22	58.88	9.25		

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
10/06/02									
07:28:00	Commenced pumping at 0.5 bpm through coil tubing to assist passing obstruction at tubing hanger depth.								
07:36:00	10/06/02	0.0	2.38	59.30	0.16	58.97	9.25		
07:38:00	Increased rate to 1 bpm.								
07:45:00	Observed return at surge tank, stopped circulating.								
07:47:00	Closed choke manifold.								
07:48:00	10/06/02	0.0	2.58	62.61	1.88	93.26	8.84		
07:48:00	Attempted to continue running in hole with CTU.								
07:50:00	Coil tubing hung up at tubing hanger depth. Commenced POOH with coil tubing.								
08:00:00	10/06/02	0.0	2.79	60.16	0.00	81.42	9.25		
08:00:00	Commenced rigging up Expro slickline unit.								
08:12:00	10/06/02	0.0	2.79	59.90	0.00	76.78	9.66		
08:20:00	Coil tubing at surface.								
08:22:00	Closed STT swab valve.								
08:25:00	10/06/02	0.0	2.38	59.85	0.00	72.73	9.66		
08:26:00	Closed SSLV.								
08:40:00	10/06/02	0.0	2.17	59.83	0.00	69.41	9.66		
08:45:00	Commenced rigging down coil tubing injector head.								
08:50:00	10/06/02	0.0	2.38	59.78	0.00	67.68	10.06		
09:00:00	10/06/02	0.0	2.17	59.79	0.00	66.60	9.25		
09:00:00	Commenced rigging up wireline unit.								
09:15:00	10/06/02	0.0	2.58	59.72	0.00	65.90	10.06		
09:25:00	10/06/02	0.0	1.97	59.67	0.00	65.69	10.06		
09:30:00	Completed rigging down coil tubing injector head.								
09:40:00	10/06/02	0.0	2.79	59.53	0.00	65.48	10.06		
09:50:00	10/06/02	0.0	2.17	59.26	0.00	65.56	9.66		
10:00:00	10/06/02	0.0	2.17	59.07	1.20	65.38	9.66		
10:15:00	10/06/02	0.0	1.76	58.85	0.53	64.49	10.06		
10:15:00	Completed rigging down coil tubing BOP.								
10:25:00	10/06/02	0.0	1.76	58.76	0.00	64.10	10.06		
10:30:00	Installed wireline BOP.								
10:40:00	10/06/02	0.0	2.38	59.59	0.00	63.42	8.84		
10:50:00	10/06/02	0.0	2.38	60.59	0.00	63.25	9.66		
11:00:00	10/06/02	0.0	2.99	61.61	0.00	63.10	9.25		
11:15:00	10/06/02	0.0	2.99	62.87	0.00	63.19	9.66		
11:25:00	10/06/02	0.0	2.79	63.47	0.00	63.61	9.66		
11:40:00	10/06/02	0.0	2.58	64.18	0.00	64.00	9.66		
11:50:00	10/06/02	0.0	2.79	64.62	0.00	63.42	9.25		
11:55:00	Made up 4 1/2" GS pulling tool onto wireline toolstring. Stabbed wireline lubricator onto BOP.								
12:00:00	10/06/02	0.0	2.99	65.09	0.00	63.24	10.06		
12:10:00	Increased SSLV close assist line to 3000 psi.								
12:15:00	10/06/02	0.0	2.58	65.68	0.00	63.16	9.66		
12:25:00	10/06/02	0.0	3.20	65.94	0.00	63.20	10.06		
12:35:00	Opened STT swab and kill valves.								
12:36:00	10/06/02	0.0	2.99	66.12	0.00	63.27	9.66		
12:37:00	Commenced flushing wireline lubricator with brine.								
12:44:00	Commenced pressure testing against wireline lubricator, SSLV, and choke manifold to 3000 psi.								
12:48:00	10/06/02	0.0	2982.37	64.38	0.00	63.35	9.66		
12:54:00	Good test. Bled off pressure via Halliburton unit.								
12:57:00	Opened SSLV.								

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
10/06/02									
13:00:00	10/06/02	0.0	24.46	63.40	0.00	63.47	9.66		
13:00:00	Commenced RIH Expro wireline with 4 1/2" GS pulling tool to pull isolation sleeve from tubing hanger.								
13:10:00	Expro wireline on depth and latched on. Commenced POOH with isolation sleeve.								
13:12:00	10/06/02	0.0	24.66	65.21	0.00	63.91	10.06		
13:15:00	Expro wireline at surface. Closed STT swab valve.								
13:20:00	Closed SSLV.								
13:22:00	Bled off pressure via choke manifold to surge tank. Opened choke manifold.								
13:24:00	10/06/02	0.0	4.21	64.75	2.61	64.43	10.06		
13:30:00	Broke out lubricator, retrieved isolation sleeve and changed out 4 1/2" GS pulling tool to 4.25" gauge cutter.								
13:36:00	10/06/02	0.0	4.01	64.67	2.19	64.83	10.06		
13:43:00	Stabbed wireline lubricator onto BOP.								
13:45:00	Closed choke manifold.								
13:48:00	10/06/02	0.0	7.90	64.65	2.86	65.03	10.06		
13:49:00	Commenced pressure testing against wireline lubricator, SSLV, and choke manifold to 3000 psi.								
14:00:00	10/06/02	0.0	78.02	65.08	3.29	65.03	9.66		
14:00:00	Good test. Bled off pressure via Halliburton unit.								
14:01:00	Closed kill valve.								
14:03:00	Opened SSLV.								
14:05:00	Commenced RIH Expro wireline with 4.25" gauge cutter to 250m.								
14:12:00	10/06/02	0.0	26.71	64.29	2.25	64.98	10.06		
14:15:00	Expro wireline on depth. Commenced POOH with gauge cutter.								
14:21:00	Expro wireline at surface. Closed STT swab valve.								
14:24:00	10/06/02	0.0	27.11	64.45	2.61	65.02	9.66		
14:25:00	Commenced rigging down wireline lubricator and BOP.								
14:36:00	10/06/02	0.0	26.71	64.66	2.61	65.15	10.06		
14:44:00	Closed SSLV.								
14:48:00	10/06/02	0.0	26.30	64.88	2.25	65.31	10.06		
14:50:00	Completed rigging down wireline lubricator and BOP.								
15:00:00	10/06/02	0.0	26.30	64.87	2.00	65.49	10.48		
15:00:00	Commenced rigging up coil tubing BOP and injector head.								
15:12:00	10/06/02	0.0	26.71	64.87	2.00	65.62	9.66		
15:24:00	10/06/02	0.0	27.11	64.80	1.94	65.65	10.06		
15:36:00	10/06/02	0.0	25.89	64.67	2.25	65.49	9.66		
15:48:00	10/06/02	0.0	25.89	64.69	1.88	65.37	10.06		
16:00:00	10/06/02	0.0	26.09	64.53	1.88	65.24	10.06		
16:15:00	10/06/02	0.0	25.89	64.16	1.33	64.99	10.48		
16:25:00	10/06/02	0.0	25.07	63.99	1.94	64.81	10.48		
16:40:00	10/06/02	0.0	25.27	63.73	1.33	64.65	10.48		
16:50:00	10/06/02	0.0	25.48	63.58	1.33	64.51	10.88		
17:00:00	10/06/02	0.0	26.30	63.39	1.26	64.33	10.06		
17:15:00	10/06/02	0.0	26.50	63.18	1.26	64.12	10.06		
17:25:00	10/06/02	0.0	26.50	62.96	1.33	63.95	10.06		
17:40:00	10/06/02	0.0	25.48	62.81	1.02	63.77	10.06		
17:50:00	10/06/02	0.0	25.89	62.70	1.02	63.79	10.48		
18:00:00	10/06/02	0.0	26.50	62.66	1.08	63.75	10.06		
18:15:00	10/06/02	0.0	26.50	62.54	1.02	63.65	10.06		
18:25:00	10/06/02	0.0	26.09	62.50	1.02	63.65	10.06		
18:40:00	10/06/02	0.0	26.71	62.44	1.14	63.61	10.06		
18:50:00	10/06/02	0.0	25.68	62.24	1.02	63.51	10.48		

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
10/06/02									
19:00:00	10/06/02	0.0	26.30	62.18	1.08	63.41	9.66		
19:15:00	10/06/02	0.0	26.71	61.90	0.71	63.36	10.06		
19:25:00	10/06/02	0.0	26.50	61.88	1.02	63.32	10.48		
19:40:00	10/06/02	0.0	25.48	61.80	1.20	63.20	9.66		
19:50:00	10/06/02	0.0	25.07	61.79	0.84	63.13	10.06		
20:00:00	10/06/02	0.0	26.50	61.70	1.26	62.97	10.48		
20:00:00	Completed rigging up coil tubing BOP and injector head.								
20:12:01	10/06/02	0.0	25.89	61.63	1.08	62.76	10.06		
20:16:00	Opened STT swab valve.								
20:24:00	10/06/02	0.0	31.61	61.43	1.08	62.51	10.06		
20:36:00	10/06/02	0.0	40.40	61.21	0.65	62.16	10.06		
20:38:00	Commenced pressure testing through CTU lubricator , SSLV, and choke manifold to 3000 psi.								
20:48:00	10/06/02	0.0	3119.33	61.93	0.65	61.89	10.88		
20:50:00	Good test. Bled off pressure via Halliburton unit.								
21:00:00	10/06/02	0.0	793.93	60.94	0.41	61.61	10.06		
21:12:00	10/06/02	0.0	8.10	62.24	6.36	61.90	10.06		
21:12:00	Opened SSLV.								
21:13:00	Opened well to surge tank on 96/64"adjustable choke.								
21:20:00	Coil tubing commenced RIH with gauge toolstring @5m/minute.								
21:24:00	10/06/02	96.0	6.47	61.24	4.70	62.17	10.06		
21:36:00	10/06/02	96.0	6.88	60.96	4.70	62.15	10.48		
21:48:00	10/06/02	96.0	6.88	60.66	4.64	62.13	10.48		
21:51:00	Coil tubing @200m, preparing to pump N2.								
21:56:00	Coil tubing commenced pumping N2 @ 400 scf/m.								
22:00:00	10/06/02	96.0	6.26	60.53	4.33	62.06	10.48		
22:04:00	Return rate at surge tank = 8208 bbl/d.								
22:05:00	Return rate at surge tank = 11952 bbl/d.								
22:05:00	Coil tubing continued RIH with gauge toolstring @5m/minute.								
22:06:00	Return rate at surge tank = 3312 bbl/d.								
22:07:00	Return rate at surge tank = 4176 bbl/d.								
22:08:00	Return rate at surge tank = 2304 bbl/d.								
22:09:00	Return rate at surge tank = 7920 bbl/d.								
22:10:00	Coil tubing stopped pumping N2.								
22:10:00	Coil tubing stopped RIH @283mRT.								
22:10:00	Shut in well at choke manifold.								
22:10:00	SG of displaced gas = 0.97, N2 SG=0.967.								
22:10:00	Return rate at surge tank = 720 bbl/d.								
22:12:00	10/06/02	0.0	190.86	67.35	5.44	66.22	10.06		
22:21:00	Coil tubing continued RIH with gauge toolstring @5m/minute.								
22:24:00	10/06/02	16.0	255.87	64.97	5.31	64.67	9.66		
22:24:00	Opened well to surge tank on 16/64"adjustable choke.								
22:24:00	Return rate at surge tank = 2736 bbl/d.								
22:25:00	Return rate at surge tank = 1296 bbl/d.								
22:26:00	Return rate at surge tank = 2160 bbl/d.								
22:27:00	Return rate at surge tank = 1728 bbl/d.								
22:28:00	Return rate at surge tank = 864 bbl/d.								
22:30:00	Increase choke to 72/64" adjustable.								
22:31:00	Increase choke to 84/64" adjustable.								
22:32:00	Coil tubing @300mRT.								
22:34:00	Return rate at surge tank = 7344 bbl/d.								
22:35:00	Return rate at surge tank = 9369 bbl/d.								

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
10/06/02									
22:36:00	10/06/02	84.0	112.57	74.13	69.59	69.82	10.06		
22:36:00	Return rate at surge tank = 6624 bbl/d.								
22:37:00	Return rate at surge tank = 4464 bbl/d.								
22:38:00	Coil tubing @320mRT. Stopped pumping N2.								
22:39:00	Return rate at surge tank = 3312 bbl/d.								
22:40:00	Return rate at surge tank = 4752 bbl/d.								
22:41:00	Return rate at surge tank = 1728 bbl/d.								
22:42:00	Coil tubing @350mRT.								
22:44:00	Shut in well at choke manifold. Total returns = 65.1 bbls.								
22:48:00	10/06/02	0.0	80.26	75.03	3.96	74.25	10.88		
22:48:00	Coil tubing @400mRT.								
22:58:00	Coil tubing @500mRT.								
23:00:00	10/06/02	0.0	87.42	71.77	3.78	71.77	10.48		
23:12:00	10/06/02	0.0	88.44	68.84	4.03	69.78	10.06		
23:17:00	Coil tubing @624mRT.								
23:24:00	10/06/02	0.0	5.03	66.64	0.35	67.00	9.66		
23:36:00	10/06/02	0.0	5.44	65.47	0.53	66.18	10.88		
23:48:00	10/06/02	0.0	5.44	64.12	0.59	65.14	9.66		
11/06/02									
00:00:00	11/06/02	0.0	5.03	62.99	0.35	64.24	9.66		
00:12:00	11/06/02	0.0	5.24	62.06	0.35	63.42	10.06		
00:15:00	Coil tubing @902mRT waiting to pump N2.								
00:24:00	11/06/02	0.0	4.83	61.40	0.35	62.85	10.06		
00:32:00	Opened well to tank on 128/64" adjustable choke.								
00:33:00	Coil tubing commenced pumping N2 @ 300scf/d.								
00:36:00	11/06/02	128.0	2.58	60.75	0.28	62.45	10.48		
00:48:00	11/06/02	128.0	3.40	60.26	1.02	62.35	10.06		
00:51:00	Return rate at surge tank = 6336 bbl/d.								
00:52:00	Return rate at surge tank = 8352bbl/d.								
00:53:00	Return rate at surge tank = 9216bbl/d.								
00:54:00	Return rate at surge tank = 12240bbl/d.								
00:55:00	Return rate at surge tank = 13248bbl/d.								
00:55:00	Decreased choke to 28/64" adjustable.								
00:56:00	Return rate at surge tank = 6480bbl/d.								
00:57:00	Return rate at surge tank = 3600bbl/d.								
00:58:00	Return rate at surge tank = 7056bbl/d.								
00:59:00	Return rate at surge tank = 9792bbl/d.								
00:59:00	Coil tubing stopped pumping N2.								
01:00:00	11/06/02	28.0	695.19	88.36	247.32	86.13	10.06		
01:00:00	Return rate at surge tank = 4752bbl/d.								
01:01:00	Return rate at surge tank = 720bbl/d.								
01:01:00	Shut in well at choke manifold and monitor build up. Total returns = 121.7 bbls.								
01:12:00	11/06/02	0.0	870.39	80.58	3.35	78.18	10.48		
01:24:00	11/06/02	0.0	890.22	74.23	3.35	75.32	10.88		
01:36:00	11/06/02	0.0	888.38	69.79	3.35	72.56	10.06		
01:48:00	11/06/02	0.0	888.38	66.71	2.98	70.38	10.06		
02:00:00	11/06/02	0.0	887.77	64.19	2.98	68.40	10.06		
02:12:00	11/06/02	0.0	887.36	62.61	3.35	66.87	10.06		
02:24:00	11/06/02	0.0	887.57	61.59	3.78	65.64	10.06		
02:36:00	11/06/02	0.0	887.16	60.88	3.35	64.64	10.06		
02:48:00	11/06/02	0.0	887.36	60.36	3.41	63.84	10.48		

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
11/06/02									
03:00:00	11/06/02	0.0	887.16	59.98	3.41	63.16	10.06		
03:00:00	Coil tubing commenced POOH to repair SRO gauges.								
03:12:00	11/06/02	0.0	890.42	59.62	3.35	62.54	10.06		
03:24:00	11/06/02	0.0	893.29	59.31	3.29	61.93	10.48		
03:36:00	11/06/02	0.0	893.90	59.10	3.35	61.47	10.48		
03:48:00	11/06/02	0.0	892.47	58.98	3.23	61.08	10.06		
04:00:00	11/06/02	0.0	894.51	58.83	2.98	60.74	10.48		
04:07:00	Coil tubing at surface.								
04:10:00	Closed SSLV.								
04:12:00	11/06/02	0.0	896.15	58.81	2.98	60.51	10.06		
04:24:00	11/06/02	0.0	893.29	58.69	3.35	60.33	10.06		
04:24:00	Closed master valve on STT.								
04:24:00	Bled off pressure above STT master valve via choke manifold.								
04:30:00	Closed swab valve on STT.								
04:36:00	11/06/02	0.0	2.58	57.90	0.35	57.89	10.06		
04:48:00	11/06/02	0.0	2.79	57.96	0.41	57.74	10.48		
04:57:00	Opened swab valve and bled off pressure in coil tubing via choke manifold.								
05:00:00	11/06/02	0.0	2.58	58.02	0.35	58.06	10.06		
05:02:00	Closed sawb valve on STT.								
05:12:00	11/06/02	0.0	2.38	58.18	0.04	58.27	10.06		
05:22:00	Broke out SRO and memory gauges from coil tubing toolstring.								
05:24:00	11/06/02	0.0	2.38	58.33	0.35	58.63	10.48		
05:36:00	11/06/02	0.0	2.17	58.50	0.35	58.90	10.48		
05:48:00	11/06/02	0.0	2.38	58.72	0.47	59.08	10.06		
06:00:00	11/06/02	0.0	2.38	58.96	0.35	59.17	10.06		
06:12:00	11/06/02	0.0	2.38	59.12	0.28	59.39	10.06		
06:24:00	11/06/02	0.0	2.38	59.30	0.35	59.63	10.48		
06:25:00	Closed choke manifold.								
06:36:00	11/06/02	0.0	2.99	59.37	0.41	59.74	10.06		
06:48:00	11/06/02	0.0	2.58	59.41	0.04	59.75	10.06		
07:00:00	11/06/02	0.0	2.58	59.41	0.00	59.82	10.48		
07:00:00	Suspended all hot permit and shut down cranes operation.								
07:00:00	Radio checked, Driller, Flare Watchers, Subsea Engineers, Test Crews, and Data Acquisition Engineer.								
07:12:00	11/06/02	0.0	2.79	59.44	0.28	59.85	10.06		
07:24:00	11/06/02	0.0	2.38	59.40	0.00	59.78	9.66		
07:30:00	Opened swab valve.								
07:36:00	11/06/02	0.0	2.99	59.31	0.00	59.80	10.48		
07:48:00	11/06/02	0.0	2.99	59.37	0.00	59.84	10.06		
07:51:00	Opened choke manifold.								
07:53:00	Commenced flushing surface lines and lubricator with brine.								
07:54:00	Return at choke manifold.								
07:55:00	Closed choke manifold.								
07:57:00	Commenced pressure testing through CTU lubricator , SSLV, and choke manifold to 500 / 3000 psi.								
08:00:00	11/06/02	0.0	425.75	60.33	3.78	60.21	10.06		
08:11:00	Good test. Bled down pressure to 900 psi to equalise across master valve.								
08:12:00	11/06/02	0.0	1173.36	60.28	2.98	60.26	10.06		
08:12:00	Opened STT master valve and locked open.								
08:14:00	Observed leak at injector head quick union.								
08:24:00	11/06/02	0.0	912.91	59.94	2.92	60.20	10.06	0.00	0.00
08:36:00	11/06/02	0.0	912.50	59.89	2.61	60.17	9.66	0.00	0.00

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
11/06/02									
08:45:00	Unlocked STT master valve and closed.								
08:48:00	11/06/02	0.0	216.62	61.05	32.05	60.91	9.25	0.00	0.00
08:50:00	Bled off pressure via choke manifold to gas line flare.								
09:00:00	11/06/02	0.0	3.20	59.21	0.00	60.51	10.06	0.00	0.00
09:12:00	11/06/02	0.0	2.58	59.17	0.00	61.35	9.66	0.00	0.00
09:24:00	11/06/02	0.0	2.79	59.06	0.35	62.16	10.06	0.00	0.00
09:36:00	11/06/02	0.0	2.58	58.80	1.57	62.89	9.66	0.00	0.00
09:48:00	11/06/02	0.0	2.38	58.67	1.26	63.61	10.06	0.00	0.00
09:55:00	Closed Choke manifold.								
10:00:00	11/06/02	0.0	4.62	58.67	1.69	64.08	9.25	0.00	0.00
10:03:00	Commenced pressure testing through CTU lubricator , SSLV, and choke manifold to 500 / 3000 psi.								
10:12:00	11/06/02	0.0	2992.79	60.70	2.98	63.67	10.48	0.00	0.00
10:19:00	Good test. Bled down pressure to 900 psi to equalise across master valve.								
10:24:00	11/06/02	0.0	899.01	60.11	1.69	63.54	10.06	0.00	0.00
10:24:00	Opened STT master valve and locked open.								
10:32:00	Opened SSLV.								
10:35:00	Coil tubing commenced RIH with gauge toolstring at 15m/minute to 900mRT.								
10:36:00	11/06/02	0.0	898.19	60.09	1.69	63.15	10.06	0.00	0.00
10:40:00	Function tested rig deluge system.								
10:48:00	11/06/02	0.0	910.46	60.82	0.71	63.00	10.06	0.00	0.00
11:00:00	11/06/02	0.0	916.18	61.62	0.65	62.96	10.48	0.00	0.00
11:00:00	Coil tubing at 195mRT.								
11:12:00	11/06/02	0.0	921.70	62.46	1.14	63.14	10.48	0.00	0.00
11:24:00	11/06/02	0.0	928.45	63.40	0.71	63.74	10.06	0.00	0.00
11:26:00	Coil tubing at 500mRT.								
11:36:00	11/06/02	0.0	934.17	64.23	2.00	64.48	9.66	0.00	0.00
11:48:00	11/06/02	0.0	938.26	65.00	1.33	64.29	9.66	0.00	0.00
12:00:00	11/06/02	0.0	938.26	65.61	1.08	63.85	10.06	0.00	0.00
12:00:00	Coil tubing on depth at 902mRT.								
12:10:00	JHA prior to flowing well.								
12:12:00	11/06/02	0.0	939.28	66.02	1.39	63.54	10.48	0.00	0.00
12:24:00	11/06/02	0.0	938.06	66.40	1.14	63.29	10.06	0.00	0.00
12:25:00	Standby boat Captain aware of responsibilities and informed flaring is to commence.								
12:25:00	Air compressors on load, propane pilots on, and started steam generator.								
12:30:00	Assigned dedicated person to check lines and equipment while flowing.								
12:30:00	Rig water screens operating, Burner boom water screens operating. All water tight doors closed.								
12:30:00	Halliburton unit lined up to pump kill fluid.								
12:30:00	Applied 200 psi annulus.								
12:36:00	11/06/02	0.0	937.65	66.65	1.33	63.18	167.89	0.00	0.00
12:40:00	Commenced sand monitoring system.								
12:42:00	Opened well through separator bypass on 16/64" adjustable choke to aft gas flare line.								
12:48:00	11/06/02	16.0	886.13	65.38	19.91	60.77	167.89	0.00	0.00
12:53:00	Commenced increasing adjustable choke to 20/64".								
12:54:00	Adjustable choke at 20/64".								
12:57:00	Commenced increasing adjustable choke to 24/64".								
12:58:00	Adjustable choke at 24/64".								
13:00:00	11/06/02	28.0	680.06	65.15	36.28	36.79	192.01	0.00	0.00
13:00:00	Commenced increasing adjustable choke to 28/64". Only nitrogen to surface.								

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
11/06/02									
13:01:00	Adjustable choke at 28/64".								
13:03:00	Commenced increasing adjustable choke to 32/64".								
13:04:00	Adjustable choke at 32/64".								
13:05:00	Brine at surface.								
13:10:00	Gas to surface.								
13:12:00	11/06/02	32.0	861.81	69.67	110.25	66.02	273.79	0.00	4.00
13:16:00	Commenced increasing adjustable choke to 36/64".								
13:17:00	Adjustable choke at 36/64". Draeger indicated 0.3% CO2 and 0ppm H2S.								
13:22:00	Commenced increasing adjustable choke to 40/64".								
13:23:00	Adjustable choke at 40/64".								
13:24:00	11/06/02	40.0	816.83	66.78	177.52	54.16	304.86	0.00	0.00
13:25:00	Commenced increasing adjustable choke to 44/64".								
13:26:00	Adjustable choke at 44/64".								
13:28:00	Commenced increasing adjustable choke to 48/64".								
13:29:00	Adjustable choke at 48/64".								
13:30:00	Well slugging gas, brine and mud traces.								
13:31:00	Commenced increasing adjustable choke to 52/64".								
13:32:00	Adjustable choke at 52/64".								
13:34:00	Commenced increasing adjustable choke to 56/64".								
13:35:00	Adjustable choke at 56/64".								
13:36:00	11/06/02	56.0	717.89	70.46	319.50	62.26	376.82	0.00	0.00
13:37:00	Commenced increasing adjustable choke to 60/64".								
13:38:00	Adjustable choke at 60/64".								
13:39:00	Commenced increasing adjustable choke to 64/64".								
13:40:00	Adjustable choke at 64/64". Draeger indicated 0.15% CO2 and 0ppm H2S.								
13:45:00	Intermittent flaring at gas line.								
13:48:00	11/06/02	64.0	749.98	74.15	328.15	65.35	465.14	0.00	0.00
13:57:00	Commenced increasing adjustable choke to 68/64".								
13:58:00	Adjustable choke at 68/64".								
14:00:00	11/06/02	68.0	744.05	76.42	357.83	67.92	519.11	0.00	0.00
14:00:00	Well slugging gas, brine and mud traces.								
14:06:00	Commenced increasing adjustable choke to 72/64".								
14:07:00	Adjustable choke at 72/64".								
14:12:00	11/06/02	72.0	691.51	79.18	433.27	72.50	568.98	0.00	0.00
14:15:00	BS&W at downstream choke manifold showed 1% sand, 2% mud and 97% brine.								
14:20:00	Commenced increasing adjustable choke to 76/64".								
14:21:00	Adjustable choke at 76/64".								
14:22:00	Commenced increasing adjustable choke to 80/64".								
14:23:00	Adjustable choke at 80/64".								
14:24:00	11/06/02	80.0	846.68	76.08	307.48	59.80	601.28	0.00	0.00
14:25:00	Draeger indicated 0.15% CO2 and 0ppm H2S.								
14:30:00	BS&W at downstream choke manifold showed 0.5% sand, 1.5% mud and 98% brine.								
14:30:00	Well slugging gas, brine and mud.								
14:30:00	Draeger indicated 0.15% CO2 and 0ppm H2S.								
14:36:00	11/06/02	80.0	855.67	81.70	304.11	71.32	640.53	1.00	0.00
14:39:00	Manipulated adjustable choke to prevent from plugging.								
14:45:00	Unable to take BS&W due to dry gas.								
14:48:00	11/06/02	80.0	865.90	75.68	259.83	49.29	644.22	0.00	0.00
14:50:00	Commenced increasing adjustable choke to 84/64".								
14:51:00	Adjustable choke at 84/64".								
14:59:00	Commenced increasing adjustable choke to 88/64".								

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
11/06/02									
15:00:00	11/06/02	88.0	753.66	74.58	401.31	57.73	652.40	0.00	0.00
15:00:00	Adjustable choke at 88/64". BS&W at downstream choke manifold showed 4% mud and 96% brine.								
15:00:00	Still intermittent flaring at gas line. Draeger indicated 0.15% CO2 and 0ppm H2S.								
15:00:00	Well slugging gas, brine and mud.								
15:12:00	11/06/02	88.0	792.30	79.78	409.53	67.38	686.33	0.00	0.00
15:15:00	BS&W at downstream choke manifold showed 8% mud and 92% brine.								
15:24:00	11/06/02	88.0	755.09	78.82	396.10	66.19	699.00	0.00	0.00
15:30:00	BS&W at downstream choke manifold showed 8% mud and 92% brine.								
15:30:00	Well slugging gas, brine and mud.								
15:36:00	11/06/02	88.0	777.58	79.58	419.35	66.19	715.36	0.00	0.00
15:36:00	Commenced increasing adjustable choke to 92/64".								
15:37:00	Adjustable choke at 92/64".								
15:45:00	BS&W at downstream choke manifold showed 4% mud and 96% brine.								
15:48:00	11/06/02	92.0	751.42	79.16	433.76	66.19	728.44	0.00	0.00
16:00:00	11/06/02	92.0	708.69	78.39	434.31	67.03	739.48	0.00	0.00
16:00:00	BS&W at downstream choke manifold showed 4% mud and 96% brine. Draeger indicated 0.15% CO2 and 0ppm H2S.								
16:00:00	Well slugging gas, brine and mud.								
16:00:00	Still intermittent flaring at gas line.								
16:12:00	11/06/02	92.0	707.46	78.86	442.40	68.18	751.34	0.00	0.00
16:15:00	BS&W at downstream choke manifold showed 2% mud and 98% brine.								
16:17:00	Commenced increasing adjustable choke to 96/64".								
16:18:00	Adjustable choke at 96/64".								
16:24:00	11/06/02	96.0	741.40	79.36	433.63	66.51	759.92	0.00	0.00
16:30:00	BS&W at downstream choke manifold showed 3% mud and 97% brine.								
16:30:00	Well slugging gas, brine and mud.								
16:32:00	Commenced increasing adjustable choke to 100/64".								
16:33:00	Adjustable choke at 100/64".								
16:36:00	11/06/02	100.0	732.20	79.63	457.86	67.51	765.65	0.00	0.00
16:45:00	BS&W at downstream choke manifold showed 4% mud and 96% brine.								
16:46:00	Commenced increasing adjustable choke to 104/64".								
16:47:00	Adjustable choke at 104/64".								
16:48:00	11/06/02	104.0	671.68	78.94	500.60	70.60	768.10	0.00	0.00
16:51:00	Commenced increasing adjustable choke to 108/64".								
16:52:00	Adjustable choke at 108/64".								
16:56:00	Commenced increasing adjustable choke to 112/64".								
16:57:00	Adjustable choke at 112/64".								
17:00:00	11/06/02	112.0	620.17	79.07	522.50	75.50	772.19	0.00	0.00
17:00:00	Well slugging gas, brine and mud. Still intermittent flaring at gas line.								
17:00:00	BS&W at downstream choke manifold showed 3% mud and 97% brine. Draeger indicated 0.15% CO2 and 0ppm H2S.								
17:00:00	Increased adjustable choke gradually to 128/64".								
17:02:00	Adjustable choke at 128/64".								
17:12:00	11/06/02	128.0	617.51	78.79	528.39	75.42	775.05	0.00	0.00
17:15:00	Unable to measure BS&W due to dry gas.								
17:24:00	11/06/02	128.0	626.91	78.85	532.31	74.84	775.46	0.00	0.00
17:24:00	Diverted flow to 128/64" fixed choke.								
17:25:00	Increased adjustable choke gradually to 128/64" while still flowing through 128/64" fixed choke.								
17:27:00	Opened 3" choke manifold bypass.								
17:30:00	Well slugging gas, brine and mud. Unable to measure BS&W due to dry gas.								

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
11/06/02									
17:36:00	11/06/02	192.0	605.04	78.66	546.30	76.15	774.23	0.00	0.00
17:40:00	Diverted flow through test separator.								
17:43:00	Installed 4.25" orifice into separator gas meter run.								
17:43:00	SG of produced gas = 0.576.								
17:48:00	11/06/02	192.0	605.86	78.57	546.72	76.09	773.01	0.00	0.00
17:50:00	Diverted flow through test separator.								
18:00:00	11/06/02	192.0	605.24	78.45	548.75	76.17	771.37	0.00	0.00
18:00:00	Draeger indicated 0.1% CO2 and 0ppm H2S.								
18:12:00	11/06/02	192.0	605.24	78.63	546.66	76.23	770.96	0.00	0.00
18:15:00	Raised 4.25" orifice from separator from gas meter run.								
18:20:00	Inspected sand catcher, no sand.								
18:22:00	Diverted flow to 60/64" adjustable choke.								
18:23:00	Diverted flow to 62/64" fixed choke.								
18:24:00	11/06/02	62.0	806.81	82.27	399.78	63.43	779.14	0.00	0.00
18:33:00	Diverted flow to 60/64" adjustable choke.								
18:36:00	11/06/02	62.0	800.89	81.07	405.12	61.12	779.96	0.00	0.00
18:36:00	Diverted flow to 62/64" adjustable choke.								
18:41:00	Diverted flow to 64/64" fixed choke.								
18:48:00	11/06/02	64.0	789.64	80.99	417.69	62.88	780.78	0.00	0.00
18:54:00	Installed 3.5" orifice into separator gas meter run.								
18:54:00	Raised 3.5" orifice from separator from gas meter run.								
18:58:00	Installed 3.75" orifice into separator gas meter run.								
19:00:00	11/06/02	64.0	793.93	81.15	421.43	62.93	783.23	0.00	0.00
19:00:00	Well slugging gas, brine and trace mud.								
19:12:00	11/06/02	64.0	786.99	81.00	418.42	62.94	785.27	0.00	0.00
19:24:00	11/06/02	64.0	786.37	80.84	418.98	63.13	788.14	0.00	0.00
19:36:00	11/06/02	64.0	786.99	80.89	419.35	63.32	790.59	0.00	0.00
19:48:00	11/06/02	64.0	788.41	81.19	420.39	63.32	792.63	0.00	0.00
20:00:00	11/06/02	64.0	784.12	81.28	417.14	63.51	795.08	0.00	0.00
20:00:00	SG of produced gas = 0.576. Draeger indicated 0.1% CO2 and 0ppm H2S.								
20:00:00	Established separator liquid level. Commenced flowing to surge tank.								
20:12:00	11/06/02	64.0	786.37	81.31	418.85	63.32	797.54	0.00	0.00
20:24:00	11/06/02	64.0	787.19	81.29	419.28	63.81	799.17	0.00	0.00
20:30:00	Brine cumulative at surge tank = 2 bbls.								
20:36:00	11/06/02	64.0	790.25	80.81	421.68	63.16	800.81	0.00	0.00
20:48:00	11/06/02	64.0	785.76	80.66	419.59	63.16	801.62	0.00	0.00
21:00:00	11/06/02	64.0	776.76	80.69	413.09	63.51	803.26	0.00	0.00
21:00:00	Well slugging gas , brine and trace mud.								
21:12:00	11/06/02	64.0	787.80	81.07	419.77	63.10	804.90	0.00	0.00
21:24:00	11/06/02	64.0	784.94	80.83	418.61	63.36	806.12	0.00	0.00
21:36:00	11/06/02	64.0	793.32	80.83	422.72	62.65	808.17	0.00	0.00
21:48:00	11/06/02	64.0	784.12	80.72	418.42	63.14	801.22	0.00	0.00
22:00:00	11/06/02	64.0	787.39	80.41	420.26	62.33	801.62	0.00	0.00
22:00:00	SG of produced gas = 0.578. Draeger indicated 0.1% CO2 and 0ppm H2S.								
22:00:00	Brine cumulative at surge tank = 6 bbls.								
22:12:00	11/06/02	64.0	783.51	80.78	417.63	63.45	802.85	0.00	0.00
22:24:00	11/06/02	64.0	783.51	80.52	418.36	62.58	802.03	0.00	0.00
22:36:00	11/06/02	64.0	785.96	80.91	419.77	63.08	804.08	0.00	0.00
22:42:00	Raised 3.75" orifice from separator from gas meter run.								
22:43:00	Diverted flow to 62/64" adjustable choke.								
22:47:00	Diverted flow to 60/64" fixed choke.								
22:48:00	11/06/02	60.0	825.82	81.62	371.45	60.61	805.71	0.00	0.00

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
11/06/02									
22:48:00	Installed 3.75" orifice into separator gas meter run.								
23:00:00	11/06/02	60.0	830.94	81.15	378.44	59.50	807.35	0.00	0.00
23:00:00	SG of produced gas = 0.578. Draeger indicated 0.1% CO2 and 0ppm H2S.								
23:00:00	BSW = 100% brine and trace mud.								
23:00:00	Brine cumulative at surge tank = 7.9bbls.								
23:12:00	11/06/02	60.0	838.50	81.34	380.28	58.54	809.39	0.00	0.00
23:24:00	11/06/02	60.0	839.93	81.10	380.40	58.17	811.44	0.00	0.00
23:30:00	Brine rate 52.8 bpd and cumulative = 9 bbls.								
23:36:00	11/06/02	60.0	837.07	81.24	377.52	58.31	813.07	0.00	0.00
23:48:00	11/06/02	60.0	824.19	80.86	374.45	58.93	813.48	0.00	0.00
12/06/02									
00:00:00	12/06/02	60.0	836.25	80.99	380.65	58.74	815.12	0.00	0.00
00:00:00	Brine rate 72.0 bpd and cumulative = 10.5 bbls.								
00:12:00	12/06/02	60.0	831.55	81.10	376.66	58.34	816.34	0.00	0.00
00:24:00	12/06/02	60.0	827.25	81.22	376.90	59.45	817.57	0.00	0.00
00:30:00	Brine rate 0.0 bpd and cumulative = 10.5 bbls.								
00:36:00	12/06/02	60.0	838.70	81.24	380.89	58.55	819.21	0.00	0.00
00:48:00	12/06/02	60.0	824.60	81.26	374.70	58.99	820.03	0.00	0.00
01:00:00	12/06/02	60.0	835.02	81.26	380.34	59.41	821.66	0.00	0.00
01:00:00	BSW = 100% brine and trace mud.								
01:00:00	Brine rate 19.2 bpd and cumulative = 11.3 bbls.								
01:00:00	BSW = 100% water and trace mud. SG of produced gas = 0.578. Draeger indicated 0.1% CO2 and 0ppm H2S.								
01:12:00	12/06/02	60.0	834.61	81.23	377.27	58.33	822.48	0.00	0.00
01:24:00	12/06/02	60.0	826.23	81.28	376.90	59.44	822.48	0.00	0.00
01:30:00	Brine rate 33.6 bpd and cumulative = 12.0 bbls.								
01:30:00	BSW = 100% brine and trace mud.								
01:36:00	12/06/02	60.0	837.48	81.23	381.20	58.75	824.11	0.00	0.00
01:48:00	12/06/02	60.0	820.51	81.19	372.37	58.72	824.52	0.00	0.00
02:00:00	12/06/02	60.0	833.18	81.60	379.85	59.26	825.34	0.00	0.00
02:00:00	Collected water sample no. 1.1 (500ml Pyrex) from separator water line.								
02:00:00	Mud engineer obtained pH = 8 and 112000ppm chloride which indicated the well still cleaning up with completion brine.								
02:00:00	Brine rate 12.0 bpd and cumulative = 12.25 bbls.								
02:00:00	BSW = 100% brine and trace mud.								
02:12:00	12/06/02	60.0	830.73	81.56	376.72	58.88	825.75	0.00	0.00
02:24:00	12/06/02	60.0	830.53	81.67	378.87	59.79	827.39	0.00	0.00
02:30:00	Brine rate 84.0 bpd and cumulative = 14.00 bbls.								
02:30:00	BSW = 100% brine and trace mud.								
02:36:00	12/06/02	60.0	838.09	81.78	380.83	59.06	828.20	0.00	0.00
02:48:00	12/06/02	60.0	823.37	81.81	374.88	59.95	828.61	0.00	0.00
03:00:00	12/06/02	60.0	835.43	81.66	380.34	59.19	829.02	0.00	0.00
03:00:00	Brine rate 60.0 bpd and cumulative = 15.25 bbls.								
03:00:00	BSW = 100% brine and trace mud. SG of produced gas = 0.578. Draeger indicated 0.1% CO2 and 0ppm H2S.								
03:12:00	12/06/02	60.0	822.76	81.27	372.73	58.91	829.42	0.00	0.00
03:24:00	12/06/02	60.0	833.18	81.60	379.73	59.40	830.24	0.00	0.00
03:30:00	Brine rate 36.0 bpd and cumulative = 16.0 bbls.								
03:30:00	BSW = 100% brine and trace mud.								
03:36:00	12/06/02	60.0	827.66	81.56	376.35	59.02	831.06	0.00	0.00
03:48:00	12/06/02	60.0	825.21	81.58	376.48	59.72	831.06	0.00	0.00

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
12/06/02									
04:00:00	12/06/02	60.0	835.23	81.93	379.85	59.34	832.29	0.00	0.00
04:00:00	Brine rate 38.4 bpd and cumulative = 16.8 bbls.								
04:00:00	BSW = 100% brine and trace mud.								
04:12:00	12/06/02	60.0	822.35	81.67	375.31	59.74	832.29	0.00	0.00
04:24:00	12/06/02	60.0	834.82	82.14	380.65	59.89	832.29	0.00	0.00
04:30:00	Brine rate 28.8 bpd and cumulative = 17.4 bbls.								
04:30:00	BSW = 100% brine and trace mud.								
04:36:00	12/06/02	60.0	831.14	81.98	376.54	59.14	833.10	0.00	0.00
04:48:00	12/06/02	60.0	826.03	81.86	376.11	60.02	833.51	0.00	0.00
05:00:00	12/06/02	60.0	837.48	81.92	380.71	59.39	835.15	0.00	0.00
05:00:00	Brine rate 40.8 bpd and cumulative = 19.25 bbls.								
05:00:00	BSW = 100% brine and trace mud. SG of produced gas = 0.574. Draeger indicated 0.1% CO2 and 0ppm H2S.								
05:12:00	12/06/02	60.0	823.57	82.02	372.98	59.33	834.74	0.00	0.00
05:24:00	12/06/02	60.0	834.00	82.25	380.34	60.12	836.38	0.00	0.00
05:30:00	Brine rate 50.4 bpd and cumulative = 20.3 bbls.								
05:30:00	BSW = 100% brine.								
05:36:00	12/06/02	60.0	838.70	82.09	380.58	59.41	837.19	0.00	0.00
05:48:00	12/06/02	60.0	826.44	81.94	374.39	59.41	836.79	0.00	0.00
06:00:00	12/06/02	60.0	831.14	81.98	379.30	59.67	837.19	0.00	0.00
06:00:00	Brine rate 9.6 bpd and cumulative = 20.5 bbls.								
06:00:00	BSW = 100% brine and trace mud. SG of produced gas = 0.576.								
06:12:00	12/06/02	60.0	838.09	81.54	381.69	59.06	838.42	0.00	0.00
06:24:00	12/06/02	60.0	825.62	81.62	374.39	59.02	837.60	0.00	0.00
06:30:00	Brine rate 0.0 bpd and cumulative =20.5 bbls.								
06:30:00	BSW = 100% brine.								
06:36:00	12/06/02	60.0	832.98	81.73	379.79	59.78	839.65	0.00	0.00
06:48:00	12/06/02	60.0	838.50	81.99	380.71	59.34	839.65	0.00	0.00
07:00:00	12/06/02	60.0	831.55	81.97	376.35	59.19	840.06	0.00	0.00
07:00:00	Brine rate 19.2 bpd and cumulative = 20.9 bbls.								
07:00:00	BSW = 100% brine. SG of produced gas = 0.576. Draeger indicated 0.1% CO2 and 0ppm H2S.								
07:00:00	SG of brine = 1.100 at 51 degF, pH = 7 and Chloride contents from refractometer 110,000ppm.								
07:12:00	12/06/02	60.0	832.57	81.98	378.81	59.83	840.06	0.00	0.00
07:24:00	12/06/02	60.0	838.50	82.21	380.22	59.47	841.28	0.00	0.00
07:30:00	Brine rate 19.2 bpd and cumulative = 21.3 bbls.								
07:30:00	BSW = 100% brine, pH = 7 and Chloride contents from refractometer 115,000ppm.								
07:36:00	12/06/02	60.0	832.98	82.13	376.41	59.39	841.69	0.00	0.00
07:48:00	12/06/02	60.0	832.78	82.05	378.44	59.98	841.28	0.00	0.00
08:00:00	12/06/02	60.0	837.68	82.00	380.77	59.37	842.51	0.00	0.00
08:00:00	SG of brine = 1.096 at 49 degF. Brine rate 62.4 bpd and cumulative = 22.6 bbls.								
08:00:00	BSW = 100% brine, pH = 7 and Chloride contents from refractometer 115,000ppm.								
08:12:00	12/06/02	60.0	831.34	82.31	376.29	59.36	842.51	0.00	0.00
08:24:00	12/06/02	60.0	834.61	82.09	378.62	59.77	843.33	0.00	0.00
08:30:00	Brine rate 24.0 bpd and cumulative = 23.1 bbls.								
08:30:00	BSW = 100% brine. pH = 7 and Chloride contents from refractometer 115,000ppm.								
08:36:00	12/06/02	60.0	839.32	82.26	380.52	59.56	844.56	0.00	0.00
08:48:00	12/06/02	60.0	832.16	82.51	376.11	59.57	844.56	0.00	0.00
09:00:00	12/06/02	60.0	832.57	82.91	377.95	60.64	844.96	0.00	0.00
09:00:00	Brine rate 24.0 bpd and cumulative = 23.6 bbls.								
09:00:00	BSW = 100% brine. SG of produced gas = 0.576. Draeger indicated 0.1% CO2 and								

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
12/06/02									
	0ppm H2S.								
09:00:00	**SG of brine = 1.092 at 50 degF, pH = 7 and Chloride contents from refractometer 115,000ppm.**								
09:12:00	**12/06/02**	**60.0**	**839.32**	**82.88**	**380.77**	**60.28**	**845.78**	**0.00**	**0.00**
09:24:00	**12/06/02**	**60.0**	**837.27**	**82.90**	**379.24**	**60.09**	**845.78**	**0.00**	**0.00**
09:30:00	**Brine rate 38.4 bpd and cumulative = 24.4 bbls.**								
09:30:00	**BSW = 100% brine, pH = 7 and Chloride contents from refractometer 115,000ppm.**								
09:36:00	**12/06/02**	**60.0**	**829.30**	**82.73**	**377.64**	**60.83**	**846.19**	**0.00**	**0.00**
09:48:00	**12/06/02**	**60.0**	**837.88**	**82.74**	**380.83**	**60.07**	**846.60**	**0.00**	**0.00**
10:00:00	**12/06/02**	**60.0**	**840.34**	**83.00**	**379.91**	**59.98**	**847.83**	**0.00**	**0.00**
10:00:00	**Brine rate 28.8 bpd and cumulative = 25.0 bbls.**								
10:00:00	**BSW = 100% brine. SG of brine = 1.092 at 50 degF, pH = 7 and Chloride contents from refractometer 115,000ppm.**								
10:12:00	**12/06/02**	**60.0**	**824.80**	**83.17**	**375.49**	**60.70**	**847.01**	**0.00**	**0.00**
10:24:00	**12/06/02**	**60.0**	**837.68**	**83.54**	**379.91**	**60.94**	**847.83**	**0.00**	**0.00**
10:30:00	**Brine rate 33.8 bpd and cumulative = 25.7 bbls.**								
10:30:00	**BSW = 100% brine, pH = 7 and Chloride contents from refractometer 115,000ppm.**								
10:36:00	**12/06/02**	**60.0**	**840.75**	**83.73**	**380.58**	**60.96**	**849.05**	**0.00**	**0.00**
10:48:00	**12/06/02**	**60.0**	**829.71**	**83.16**	**375.86**	**60.49**	**849.05**	**0.00**	**0.00**
11:00:00	**12/06/02**	**60.0**	**836.86**	**83.37**	**380.52**	**61.05**	**849.47**	**0.00**	**0.00**
11:00:00	**Brine rate 28.8 bpd and cumulative = 26.3 bbls.**								
11:00:00	**BSW = 100% brine, SG of produced gas = 0.578. Draeger indicated 0.1% CO2 and 0ppm H2S.**								
11:00:00	**SG of brine = 1.092 at 50 degF, pH = 7 and Chloride contents from refractometer 115,000ppm.**								
11:12:00	**12/06/02**	**60.0**	**841.16**	**84.05**	**381.20**	**61.28**	**850.29**	**0.00**	**0.00**
11:24:00	**12/06/02**	**60.0**	**841.56**	**83.92**	**380.03**	**61.08**	**850.69**	**0.00**	**0.00**
11:30:00	**Brine rate 14.4 bpd and cumulative = 26.6 bbls.**								
11:30:00	**BSW = 100% brine, pH = 7 and Chloride contents from refractometer 115,000ppm.**								
11:36:00	**12/06/02**	**60.0**	**830.12**	**84.09**	**377.21**	**61.72**	**851.10**	**0.00**	**0.00**
11:48:00	**12/06/02**	**60.0**	**838.91**	**84.32**	**380.95**	**61.77**	**852.32**	**0.00**	**0.00**
12:00:00	**12/06/02**	**60.0**	**841.77**	**83.92**	**380.40**	**61.21**	**852.32**	**0.00**	**0.00**
12:00:00	**Brine rate 33.6 bpd and cumulative = 27.3 bbls.**								
12:00:00	**BSW = 100% brine. SG of brine = 1.094 at 49 degF, pH = 7 and Chloride contents from refractometer 115,000ppm.**								
12:12:00	**12/06/02**	**60.0**	**829.10**	**83.48**	**374.88**	**61.01**	**852.32**	**0.00**	**0.00**
12:24:00	**12/06/02**	**60.0**	**836.46**	**83.71**	**380.16**	**61.55**	**852.74**	**0.00**	**0.00**
12:30:00	**Brine rate 33.6 bpd and cumulative = 28.0 bbls.**								
12:30:00	**BSW = 100% brine, pH = 7 and Chloride contents from refractometer 115,000ppm.**								
12:36:00	**12/06/02**	**60.0**	**839.73**	**83.46**	**380.95**	**60.87**	**853.56**	**0.00**	**0.00**
12:48:00	**12/06/02**	**60.0**	**833.79**	**83.43**	**377.58**	**60.80**	**853.56**	**0.00**	**0.00**
13:00:00	**12/06/02**	**60.0**	**833.59**	**83.77**	**379.66**	**61.69**	**853.56**	**0.00**	**0.00**
13:00:00	**Brine rate 33.6 bpd and cumulative = 28.7 bbls.**								
13:00:00	**BSW = 100% brine. SG of produced gas = 0.577.**								
13:00:00	**SG of brine = 1.094 at 49 degF, pH = 6 and Chloride contents from refractometer 115,000ppm.**								
13:12:00	**12/06/02**	**60.0**	**839.52**	**84.05**	**381.20**	**61.35**	**853.96**	**0.00**	**0.00**
13:24:00	**12/06/02**	**60.0**	**841.16**	**83.94**	**381.26**	**61.12**	**854.78**	**0.00**	**0.00**
13:30:00	**Brine rate 19.2 bpd and cumulative = 29.1 bbls.**								
13:30:00	**BSW = 100% brine, pH = 6 and Chloride contents from refractometer 110,000ppm.**								
13:30:00	**Chloride contents from Mud Engineer 100,000ppm.**								
13:36:00	**12/06/02**	**60.0**	**827.05**	**83.41**	**375.19**	**60.96**	**853.96**	**0.00**	**0.00**

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
12/06/02									
13:48:00	12/06/02	60.0	838.91	83.03	381.87	60.70	854.78	0.00	0.00
14:00:00	12/06/02	60.0	839.73	82.51	381.50	59.96	855.19	0.00	0.00
14:00:00	Brine rate 28.8 bpd and cumulative = 29.7 bbls.								
14:00:00	BSW = 100% brine. Draeger indicated 0.1% CO2 and 0ppm H2S.								
14:00:00	SG of brine = 1.096 at 52 degF, pH = 6 and Chloride contents from refractometer 110,000ppm.								
14:12:00	12/06/02	60.0	841.77	82.95	381.50	60.16	856.41	0.00	0.00
14:24:00	12/06/02	60.0	829.91	82.77	378.38	60.91	855.60	0.00	0.00
14:30:00	Brine rate 24.0 bpd and cumulative = 30.2 bbls.								
14:30:00	BSW = 100% brine, pH = 6 and Chloride contents from refractometer 115,000ppm.								
14:36:00	12/06/02	60.0	838.50	82.91	380.65	60.45	856.83	0.00	0.00
14:48:00	12/06/02	60.0	840.95	83.06	381.81	60.49	857.65	0.00	0.00
15:00:00	12/06/02	60.0	839.11	83.27	380.52	60.38	857.65	0.00	0.00
15:00:00	Brine rate 19.2 bpd and cumulative = 30.6 bbls.								
15:00:00	BSW = 100% brine. SG of produced gas = 0.577.								
15:00:00	SG of brine = 1.098 at 56 degF, pH = 6 and Chloride contents from refractometer 100,000ppm.								
15:12:00	12/06/02	60.0	834.61	83.19	380.09	61.24	857.65	0.00	0.00
15:24:00	12/06/02	60.0	840.75	83.11	381.08	60.58	858.05	0.00	0.00
15:30:00	Brine rate 28.8 bpd and cumulative = 31.2 bbls.								
15:30:00	BSW = 100% brine, pH = 6 and Chloride contents from refractometer 110,000ppm.								
15:36:00	12/06/02	60.0	843.20	83.33	383.22	60.58	858.87	0.00	0.00
15:48:00	12/06/02	60.0	839.73	83.29	380.52	60.51	859.69	0.00	0.00
16:00:00	12/06/02	60.0	834.00	83.50	379.11	61.35	859.28	0.00	0.00
16:00:00	Brine rate 19.2 bpd and cumulative = 31.6 bbls.								
16:00:00	BSW = 100% brine. SG of brine = 1.098 at 56 degF, pH = 6 and Chloride contents from refractometer 105,000ppm.								
16:12:00	12/06/02	60.0	839.52	83.21	381.20	60.71	859.28	0.00	0.00
16:24:00	12/06/02	60.0	842.59	83.28	382.85	60.51	859.69	0.00	0.00
16:30:00	Brine rate 24.0 bpd and cumulative = 32.1 bbls.								
16:30:00	BSW = 100% brine, pH = 6 and Chloride contents from refractometer 110,000ppm.								
16:36:00	12/06/02	60.0	842.79	83.56	382.24	60.45	860.91	0.00	0.00
16:48:00	12/06/02	60.0	842.59	83.43	381.63	60.50	861.73	0.00	0.00
17:00:00	12/06/02	60.0	830.32	83.40	377.70	60.93	860.10	0.00	0.00
17:00:00	BSW = 100% brine. Brine rate 24 bpd and cumulative = 32.6 bbls.								
17:00:00	SG of produced gas = 0.576. Draeger indicated 0.1% CO2 and 0ppm H2S.								
17:00:00	SG of brine = 1.092 at 49 degF, pH = 6 and Chloride contents from refractometer 105,000ppm.								
17:00:00	Commenced taking PVT gas sample no. 1.2 into bottle s/n 1278-C1-F.								
17:12:00	12/06/02	60.0	838.91	83.49	381.08	60.99	860.50	0.00	0.00
17:20:00	Completed taking PVT gas sample no. 1.2.								
17:24:00	12/06/02	60.0	843.00	83.26	382.12	60.44	861.73	0.00	0.00
17:30:00	Brine rate 24.0 bpd and cumulative = 33.1 bbls.								
17:30:00	BSW = 100% brine, pH = 6 and Chloride contents from refractometer 105,000ppm.								
17:30:00	Coil tubing commence RIH with SRO gauges.								
17:36:00	12/06/02	60.0	843.82	82.03	380.95	59.53	861.32	0.00	0.00
17:48:00	12/06/02	60.0	843.20	81.72	377.95	58.47	861.32	0.00	0.00
18:00:00	12/06/02	60.0	839.52	81.29	378.19	58.27	859.28	0.00	0.00
18:00:00	BSW = 100% brine, pH = 6 and Chloride contents from refractometer 103,000ppm.								
18:00:00	SG of brine = 1.086 at 61 degF. Draeger indicated 0.1% CO2 and 0ppm H2S.								
18:00:00	Brine rate 9.6 bpd and cumulative = 33.3 bbls.								
18:12:00	12/06/02	60.0	836.46	81.42	373.04	58.21	857.65	0.00	0.00

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
12/06/02									
18:24:00	12/06/02	60.0	837.27	82.65	379.30	59.82	858.46	0.00	0.00
18:30:00	Brine rate 4.8 bpd and cumulative = 33.4 bbls.								
18:36:00	12/06/02	60.0	835.23	82.94	377.46	60.22	858.46	0.00	0.00
18:48:00	12/06/02	60.0	841.77	81.98	381.44	59.33	859.28	0.00	0.00
19:00:00	12/06/02	60.0	845.04	81.69	379.91	58.43	858.87	0.00	0.00
19:00:00	SG of produced gas = 0.576. Brine rate 4.8 bpd and cumulative = 33.5 bbls. SG of brine = 1.084 at 62 degF.								
19:00:00	BSW = 100% brine, pH = 6 and Chloride contents from refractometer 109,000ppm.								
19:12:00	12/06/02	60.0	843.20	81.73	375.74	58.09	858.87	0.00	0.00
19:14:00	Coil tubing at depth 1535m RT.								
19:24:00	12/06/02	60.0	832.78	82.42	370.16	59.09	858.87	0.00	0.00
19:24:00	Coil tubing commence POOH.								
19:30:00	Brine rate 24 bpd and cumulative = 34 bbls.								
19:36:00	12/06/02	60.0	839.93	82.61	379.66	59.79	860.91	0.00	0.00
19:48:00	12/06/02	60.0	841.16	82.99	378.44	59.80	862.14	0.00	0.00
20:00:00	12/06/02	60.0	840.54	83.34	376.97	60.06	863.77	0.00	0.00
20:00:00	BSW = 100% brine, pH = 6 and Chloride contents from refractometer 100,000ppm.								
20:00:00	Brine rate 19.2 bpd and cumulative = 34.4 bbls. SG of brine = 1.090 at 62 degF.								
20:12:00	12/06/02	60.0	813.76	83.27	369.85	61.78	863.37	0.00	0.00
20:24:00	12/06/02	60.0	812.74	83.29	369.42	62.77	862.55	0.00	0.00
20:30:00	BSW = 100% brine, pH = 6 and Chloride contents from refractometer 118,000ppm.								
20:30:00	Brine rate 19.2 bpd and cumulative = 35.8 bbls.								
20:36:00	12/06/02	60.0	812.54	83.55	370.53	62.35	861.32	0.00	0.00
20:45:00	Coil tubing at depth 902m RT.								
20:48:00	12/06/02	60.0	813.56	83.57	371.63	63.05	860.91	0.00	0.00
21:00:00	12/06/02	60.0	835.02	83.93	379.24	61.42	860.10	0.00	0.00
21:00:00	Brine rate 86.0 bpd and cumulative = 37.6 bbls. SG of brine = 1.091 at 62 degF.								
21:00:00	SG of produced gas = 0.576. Draeger indicated 0.1% CO2 and 0ppm H2S.								
21:12:00	12/06/02	60.0	837.68	84.42	381.08	61.63	861.32	0.00	0.00
21:24:00	12/06/02	60.0	829.30	83.59	379.24	61.35	860.50	0.00	0.00
21:30:00	Brine rate 0.0 bpd and cumulative = 37.6 bbls.								
21:36:00	12/06/02	60.0	839.73	83.01	383.34	60.28	861.73	0.00	0.00
21:48:00	12/06/02	60.0	841.56	83.06	383.34	59.91	862.14	0.00	0.00
22:00:00	12/06/02	60.0	841.16	82.84	380.65	59.50	862.96	0.00	0.00
22:00:00	Brine rate 48.0 bpd and cumulative = 38.6 bbls. SG of brine = 1.091 at 62 degF.								
22:04:00	Raised orifice plate from separator gas meter run.								
22:04:00	Shut in well at choke manifold. Monitored pressure build up. Inspected sand catcher, no sand.								
22:12:00	12/06/02	0.0	981.19	78.68	0.00	57.50	854.38	0.00	0.00
22:24:00	12/06/02	0.0	982.22	71.60	0.16	57.35	829.02	1.00	0.00
22:36:00	12/06/02	0.0	983.44	67.96	0.22	56.85	807.35	0.00	0.00
22:48:00	12/06/02	0.0	984.26	65.40	0.22	56.32	786.08	0.00	0.00
23:00:00	12/06/02	0.0	984.06	63.34	0.00	55.98	768.10	3.00	0.00
23:12:00	12/06/02	0.0	984.46	61.77	0.04	55.67	751.34	3.00	0.00
23:24:00	12/06/02	0.0	984.67	60.65	0.00	55.50	734.98	4.00	0.00
23:36:00	12/06/02	0.0	984.87	59.72	0.00	55.40	720.27	2.00	0.00
23:48:00	12/06/02	0.0	984.46	58.88	0.00	55.30	706.36	2.00	0.00
13/06/02									
00:00:00	13/06/02	0.0	985.28	58.21	0.00	55.36	694.10	1.00	0.00
00:12:00	13/06/02	0.0	986.10	57.72	0.00	55.51	681.83	1.00	0.00
00:24:00	13/06/02	0.0	985.89	57.24	0.00	55.53	670.38	2.00	0.00

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
13/06/02									
00:36:00	13/06/02	0.0	986.51	56.82	0.00	55.62	659.34	2.00	0.00
00:48:00	13/06/02	0.0	986.30	56.34	0.00	55.67	649.13	2.00	0.00
01:00:00	13/06/02	0.0	986.92	55.90	0.22	55.60	639.31	2.00	0.00
01:12:00	13/06/02	0.0	986.51	55.55	0.00	55.51	629.08	2.00	0.00
01:24:00	13/06/02	0.0	986.51	55.29	0.00	55.42	620.90	3.00	0.00
01:36:00	13/06/02	0.0	987.33	55.28	0.00	55.38	612.73	3.00	0.00
01:48:00	13/06/02	0.0	986.92	55.39	0.00	55.38	604.14	2.00	0.00
02:00:00	13/06/02	0.0	987.33	55.31	0.00	55.39	596.38	0.00	0.00
02:12:00	13/06/02	0.0	987.12	55.27	0.00	55.41	588.61	1.00	0.00
02:13:00	Opened well through separator on 24/64" adjustable choke to aft gas flare line.								
02:16:00	Diverted flow to 28/64" adjustable choke.								
02:18:00	Increased adjustable choke to 32/64".								
02:24:00	13/06/02	36.0	975.26	59.96	223.46	18.49	589.43	0.00	0.00
02:25:00	Increased adjustable choke to 34/64".								
02:35:00	Diverted flow to 32/64" fixed choke.								
02:36:00	13/06/02	36.0	969.13	64.29	296.32	25.85	601.28	0.00	0.00
02:44:00	Lowered 2.25" orifice into separator gas meter run.								
02:48:00	13/06/02	32.0	958.30	66.99	311.77	32.10	616.41	0.00	0.00
03:00:00	13/06/02	32.0	958.30	68.27	312.75	33.59	631.13	0.00	0.00
03:00:00	No liquids at surface. SG of produced gas = 0.578.								
03:12:00	13/06/02	32.0	957.48	68.83	311.83	34.18	643.40	1.00	0.00
03:24:00	13/06/02	32.0	957.48	69.33	311.83	34.63	652.80	1.00	0.00
03:36:00	13/06/02	32.0	957.07	69.49	313.55	35.00	661.39	0.00	0.00
03:48:00	13/06/02	32.0	956.87	69.69	312.26	35.17	668.75	0.00	0.00
04:00:00	13/06/02	32.0	956.26	69.90	313.12	35.37	675.69	0.00	0.00
04:12:00	13/06/02	32.0	956.66	70.07	313.24	35.57	681.42	0.00	0.00
04:15:00	Commenced taking PVT gas sample no. 1.3 into bottle s/n 2750-C1-F.								
04:24:00	13/06/02	32.0	956.05	70.23	313.49	35.70	686.74	0.00	0.00
04:30:00	Completed taking PVT gas sample 1.3.								
04:30:00	Commenced taking PVT gas sample no.1.4 into bottle s/n 1851-C1-F.								
04:36:00	13/06/02	32.0	956.05	70.50	312.57	35.97	692.05	1.00	0.00
04:45:00	Completed taking PVT gas sample no. 1.4.								
04:48:00	13/06/02	32.0	956.05	70.70	312.88	36.24	696.14	0.00	0.00
05:00:00	13/06/02	32.0	955.03	70.65	312.51	36.23	700.23	0.00	0.00
05:00:00	No liquids at surface. SG of produced gas = 0.578.								
05:12:00	13/06/02	32.0	954.62	70.81	312.08	36.34	703.50	0.00	0.00
05:24:00	13/06/02	32.0	954.62	70.70	311.83	36.30	707.59	0.00	0.00
05:36:00	13/06/02	32.0	955.03	70.76	312.02	36.35	710.86	0.00	0.00
05:48:00	13/06/02	32.0	954.62	70.90	311.83	36.62	712.91	0.00	0.00
06:00:00	13/06/02	32.0	954.41	71.01	311.83	36.62	715.76	0.00	0.00
06:01:00	Raised orifice plate from separator gas meter run.								
06:03:00	Diverted flow to 36/64" adjustable choke.								
06:04:00	Commenced increasing adjustable choke to 40/64".								
06:05:00	Adjustable choke at 40/64".								
06:07:00	Commenced increasing adjustable choke to 44/64".								
06:08:00	Adjustable choke at 44/64".								
06:12:00	13/06/02	44.0	895.54	72.12	239.28	34.36	722.72	155.00	0.00
06:12:00	Commenced increasing adjustable choke to 48/64".								
06:13:00	Adjustable choke at 48/64".								
06:19:00	Lowered 3.0" orifice into separator gas meter run.								
06:24:00	13/06/02	48.0	896.76	74.69	362.92	48.57	740.30	0.00	0.00
06:25:00	Raised orifice plate from separator gas meter run.								

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
13/06/02									
06:26:00	Diverted flow to 48/64" fixed choke.								
06:27:00	Lowered 3.0" orifice into separator gas line.								
06:30:00	BS&W = 2% mud and 98% brine. Established separator liquid level. Commenced flowing to surge tank.								
06:36:00	13/06/02	48.0	889.61	75.81	374.08	50.03	754.61	0.00	0.00
06:48:00	13/06/02	48.0	896.56	76.30	371.57	49.28	765.24	0.00	0.00
07:00:00	13/06/02	48.0	900.03	76.83	371.02	49.62	775.87	0.00	0.00
07:00:00	BS&W = 2% mud and 98% brine, pH = 6 and Chloride contents from refractometer 110,000ppm.								
07:00:00	Brine rate 38.4 bpd and cumulative = 39.4 bbls. SG of brine = 1.090 at 62 degF.								
07:00:00	SG of produced gas 0.586. Draeger indicated 0.1% CO2 and 0ppm H2S.								
07:12:00	13/06/02	48.0	902.28	77.02	369.97	49.82	785.68	0.00	0.00
07:24:00	13/06/02	48.0	903.10	77.25	369.79	49.79	792.63	0.00	0.00
07:25:00	Commenced conducting flowing gradient survey with coil tubing.								
07:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 100,000ppm.								
07:30:00	Brine rate 24.0 bpd and cumulative = 39.9 bbls.								
07:36:00	13/06/02	48.0	889.20	78.20	364.76	51.01	799.17	0.00	0.00
07:48:00	13/06/02	48.0	890.63	78.66	372.18	53.57	805.71	0.00	0.00
08:00:00	13/06/02	48.0	897.79	79.66	371.75	53.25	812.67	0.00	0.00
08:00:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 115,000ppm.								
08:00:00	Brine rate 38.4 bpd and cumulative = 40.7 bbls. SG of brine = 1.092 at 45 degF.								
08:12:00	13/06/02	48.0	895.33	79.98	368.99	53.61	817.98	0.00	0.00
08:24:00	13/06/02	48.0	903.30	80.70	370.59	53.65	822.48	0.00	0.00
08:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 115,000ppm.								
08:30:00	Brine rate 38.4 bpd and cumulative = 41.5 bbls.								
08:36:00	13/06/02	48.0	906.78	80.07	368.87	52.86	826.15	0.00	0.00
08:48:00	13/06/02	48.0	908.21	78.61	367.15	51.22	827.79	0.00	0.00
09:00:00	13/06/02	48.0	904.74	78.21	365.62	50.52	827.79	0.00	0.00
09:00:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 110,000ppm.								
09:00:00	Brine rate 4.8 bpd and cumulative = 41.6 bbls.								
09:12:00	13/06/02	48.0	904.94	77.47	367.34	49.97	827.39	0.00	0.00
09:15:00	Completed conducting flowing gradient survey with coil tubing. Coil tubing at 902mRT.								
09:15:00	Collected water sample 1.5 from separator water line.								
09:24:00	13/06/02	48.0	905.35	78.58	368.69	50.91	830.24	0.00	0.00
09:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 115,000ppm.								
09:30:00	Brine rate 0 bpd and cumulative = 41.6 bbls.								
09:36:00	13/06/02	48.0	906.57	78.23	369.42	50.70	833.51	0.00	0.00
09:48:00	13/06/02	48.0	907.19	77.88	369.79	50.47	835.97	0.00	0.00
10:00:00	13/06/02	48.0	906.98	77.97	368.87	50.49	837.60	0.00	0.00
10:00:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 100,000ppm.								
10:00:00	Brine rate 0 bpd and cumulative = 41.6 bbls.								
10:12:00	13/06/02	48.0	907.19	77.85	365.13	49.94	840.06	0.00	0.00
10:24:00	13/06/02	48.0	905.55	77.65	363.78	49.75	842.10	0.00	0.00
10:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 105,000ppm.								

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
13/06/02									
10:30:00	Brine rate 0 bpd and cumulative = 41.6 bbls.								
10:31:00	Raised orifice plate from separator gas meter run.								
10:33:00	Diverted flow through 50/64" adjustable choke.								
10:34:00	Commenced increasing adjustable choke to 54/64".								
10:35:00	Adjustable choke at 54/64".								
10:36:00	13/06/02	54.0	878.16	77.56	311.77	47.00	841.69	83.00	0.00
10:36:00	Commenced increasing adjustable choke to 58/64".								
10:37:00	Adjustable choke at 58/64".								
10:39:00	Commenced increasing adjustable choke to 60/64".								
10:40:00	Adjustable choke at 60/64".								
10:43:00	Diverted flow through 60/64" fixed choke.								
10:45:00	Lowered 3.75" orifice into separator gas meter run.								
10:48:00	13/06/02	60.0	835.84	78.77	381.32	56.11	845.78	3.00	0.00
11:00:00	13/06/02	60.0	841.56	79.33	382.12	56.00	849.05	0.00	0.00
11:00:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 110,000ppm.								
11:00:00	Brine rate 67.2 bpd and cumulative = 43.0 bbls.								
11:12:00	13/06/02	60.0	841.97	79.66	383.77	56.41	852.74	0.00	0.00
11:24:00	13/06/02	60.0	844.02	80.04	382.92	56.55	855.60	0.00	0.00
11:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 115,000ppm.								
11:30:00	Brine rate 38.4 bpd and cumulative = 43.8 bbls.								
11:36:00	13/06/02	60.0	843.82	79.94	384.02	56.49	857.65	0.00	0.00
11:38:00	Sudden increase in wellhead pressure. Possibly fixed choke partially plugged.								
11:48:00	13/06/02	60.0	875.09	79.99	338.94	52.60	860.10	30.00	0.00
12:00:00	13/06/02	60.0	878.98	79.74	339.13	52.11	861.32	16.00	0.00
12:00:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 105,000ppm.								
12:00:00	Brine rate 0 bpd and cumulative = 43.8 bbls. SG brine 1.08 at 48 degF.								
12:00:00	SG of produced gas 0.580. Draeger indicated 0.1% CO2 and 0ppm H2S.								
12:02:00	Raised orifice plate from separator gas meter run.								
12:02:00	Diverted flow through 60/64" adjustable choke to. Retrieved fixed choke for plugging.								
12:04:00	Inspection revealed metal debris lodged in fixed choke.								
12:08:00	Diverted flow through 60/64" fixed choke.								
12:10:00	Lowered 3.75" orifice into separator gas meter run.								
12:12:00	13/06/02	60.0	841.16	80.01	377.46	56.12	860.91	0.00	0.00
12:24:00	13/06/02	60.0	846.47	80.37	384.57	57.11	863.37	0.00	0.00
12:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 100,000ppm.								
12:30:00	Brine rate 24 bpd and cumulative = 44.3 bbls.								
12:36:00	13/06/02	60.0	847.91	80.35	383.65	56.75	865.00	0.00	0.00
12:48:00	13/06/02	60.0	846.68	80.64	383.77	57.11	865.82	0.00	0.00
12:55:00	Commenced conducting flowing gradient survey. RIH coil tubing to 1535mRT.								
13:00:00	13/06/02	60.0	848.52	79.76	381.63	56.27	866.23	0.00	0.00
13:00:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 95,000ppm.								
13:00:00	Brine rate 0 bpd and cumulative = 44.3 bbls.								
13:12:00	13/06/02	60.0	850.36	79.59	380.95	55.79	867.45	0.00	0.00
13:24:00	13/06/02	60.0	849.74	79.76	377.21	55.69	867.86	0.00	0.00
13:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 105,000ppm.								
13:30:00	Brine rate 28.8 bpd and cumulative = 44.9 bbls.								

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
13/06/02									
13:36:00	13/06/02	60.0	845.04	79.43	375.49	55.51	867.05	0.00	0.00
13:48:00	13/06/02	60.0	846.68	77.96	383.90	54.27	867.86	0.00	0.00
13:55:00	Coil tubing at 1535 mRT. Stopped for 10 min.								
14:00:00	13/06/02	60.0	848.52	79.37	379.97	55.30	867.05	0.00	0.00
14:00:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 95,000ppm.								
14:00:00	Brine rate 0 bpd and cumulative = 44.9 bbls. Collected water sample no. 1.6 from separator water line.								
14:12:00	13/06/02	60.0	843.41	80.14	375.56	56.21	867.86	0.00	0.00
14:12:00	Commenced POOH coil tubing to 902 mRT.								
14:24:00	13/06/02	60.0	847.29	80.36	385.00	57.15	871.13	0.00	0.00
14:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 95,000ppm.								
14:30:00	Brine rate 0 bpd and cumulative = 44.9 bbls.								
14:36:00	13/06/02	60.0	847.50	80.61	379.97	57.01	874.00	0.00	0.00
14:48:00	13/06/02	60.0	849.13	80.47	383.90	56.95	878.09	0.00	0.00
15:00:00	13/06/02	60.0	843.20	80.43	376.66	56.65	879.31	0.00	0.00
15:00:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 100,000ppm.								
15:00:00	Brine rate 24 bpd and cumulative = 45.4 bbls.								
15:00:00	Coil tubing at 902mRT. Completed conducting flowing gradient survey.								
15:12:00	13/06/02	60.0	843.20	80.25	382.67	57.22	879.31	0.00	0.00
15:24:00	13/06/02	60.0	844.63	80.04	379.66	56.65	877.68	0.00	0.00
15:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 95,000ppm.								
15:30:00	Brine rate 24 bpd and cumulative = 45.9 bbls.								
15:36:00	13/06/02	60.0	845.86	80.04	383.71	56.84	877.27	0.00	0.00
15:48:00	13/06/02	60.0	845.25	80.10	382.43	56.66	876.45	0.00	0.00
16:00:00	13/06/02	60.0	844.43	80.53	382.98	57.28	876.86	0.00	0.00
16:00:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 100,000ppm.								
16:00:00	Brine rate 24 bpd and cumulative = 46.4 bbls.								
16:12:00	13/06/02	60.0	844.43	80.47	382.98	57.19	876.04	0.00	0.00
16:24:00	13/06/02	60.0	843.61	80.13	383.34	56.90	875.63	0.00	0.00
16:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 100,000ppm.								
16:30:00	Brine rate 24 bpd and cumulative = 46.9 bbls.								
16:36:00	13/06/02	60.0	842.18	80.12	384.14	57.01	875.22	0.00	0.00
16:48:00	13/06/02	60.0	839.93	80.18	382.73	57.11	874.41	0.00	0.00
17:00:00	13/06/02	60.0	838.29	80.21	382.61	57.28	874.41	0.00	0.00
17:00:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 105,000ppm.								
17:00:00	Brine rate 24 bpd and cumulative = 47.4 bbls.								
17:12:00	13/06/02	60.0	838.09	80.19	382.61	57.38	873.59	0.00	0.00
17:24:00	13/06/02	60.0	838.50	80.19	383.59	57.33	873.59	0.00	0.00
17:30:00	BS&W = 100% brine, pH = 6 and Chloride contents from refractometer 110,000ppm.								
17:30:00	Brine rate 19.2 bpd and cumulative = 47.8 bbls.								
17:31:00	Raised orifice plate from separator gas meter run. Shut in well at choke manifold.								
17:36:00	13/06/02	0.0	980.17	79.01	0.10	56.23	868.68	0.00	0.00
17:48:00	13/06/02	0.0	981.81	71.31	0.00	56.82	843.74	0.00	0.00
18:00:00	13/06/02	0.0	983.24	66.45	0.00	56.65	820.84	0.00	0.00
18:12:00	13/06/02	0.0	983.24	62.51	0.00	56.41	799.99	0.00	0.00
18:24:00	13/06/02	0.0	983.44	60.11	0.00	56.14	781.59	0.00	0.00
18:36:00	13/06/02	0.0	983.65	58.50	0.00	56.17	766.05	0.00	0.00

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
13/06/02									
18:48:00	13/06/02	0.0	984.67	57.55	0.00	56.09	750.11	0.00	0.00
19:00:00	13/06/02	0.0	985.08	56.80	0.00	56.11	735.39	0.00	0.00
19:12:00	13/06/02	0.0	985.08	56.27	0.16	56.12	721.49	0.00	0.00
19:24:00	13/06/02	0.0	986.10	55.74	0.47	55.96	708.82	0.00	0.00
19:36:00	13/06/02	0.0	985.69	55.09	0.22	55.80	697.37	0.00	0.00
19:48:00	13/06/02	0.0	985.28	54.61	0.04	55.65	685.92	0.00	0.00
20:00:00	13/06/02	0.0	985.28	54.33	0.00	55.52	674.06	0.00	0.00
20:12:00	13/06/02	0.0	985.48	54.21	0.00	55.44	664.25	0.00	0.00
20:24:00	13/06/02	0.0	985.69	54.27	0.16	55.47	654.85	0.00	0.00
20:36:00	13/06/02	0.0	986.30	54.35	0.00	55.45	645.44	0.00	0.00
20:48:00	13/06/02	0.0	986.51	54.44	0.00	55.47	636.85	0.00	0.00
21:00:00	13/06/02	0.0	986.51	54.54	0.00	55.47	628.27	0.00	0.00
21:02:00	Opened well on 16/64" adjustable choke to aft flare boom.								
21:03:00	Increased adjustable choke to 24/64".								
21:04:00	Increased adjustable choke to 28/64".								
21:05:00	Increased adjustable choke to 32/64".								
21:06:00	Increased adjustable choke to 36/64".								
21:07:00	Increased adjustable choke to 40/64".								
21:08:00	Increased adjustable choke to 44/64".								
21:10:00	Increased adjustable choke to 48/64".								
21:11:00	Increased adjustable choke to 52/64".								
21:12:00	13/06/02	52.0	897.58	65.89	300.18	29.30	640.95	85.00	0.00
21:13:00	Increased adjustable choke to 56/64".								
21:14:00	Increased adjustable choke to 60/64".								
21:15:00	Increased adjustable choke to 64/64".								
21:19:00	Increased adjustable choke to 68/64".								
21:24:00	13/06/02	68.0	740.58	71.77	473.81	56.92	683.05	0.00	0.00
21:25:00	Increased adjustable choke to 76/64".								
21:29:00	Increased adjustable choke to 80/64".								
21:30:00	Brine rate 79.9 bpd and cumulative = 49.5 bbls.								
21:33:00	Increased adjustable choke to 84/64".								
21:36:00	13/06/02	84.0	727.90	74.25	465.40	61.26	716.18	0.00	0.00
21:37:00	Increased adjustable choke to 88/64".								
21:42:00	Increased adjustable choke to 92/64".								
21:43:00	Increased adjustable choke to 96/64".								
21:46:00	Increased adjustable choke to 100/64".								
21:48:00	13/06/02	104.0	647.56	74.12	539.61	68.17	736.21	0.00	0.00
21:48:00	Increased adjustable choke to 104/64".								
21:50:00	Increased adjustable choke to 108/64".								
21:52:00	Increased adjustable choke to 112/64".								
21:54:00	Increased adjustable choke to 116/64".								
21:56:00	Diverted flow through 128/64" fixed choke.								
21:59:00	Lowered 4.25" orifice into separator gas meter run.								
22:00:00	13/06/02	128.0	631.21	74.99	560.16	71.09	752.16	0.00	0.00
22:00:00	SG of produced gas 0.578. Draeger indicated 0.15% CO2 and 0ppm H2S.								
22:00:00	BS&W showed 100% brine, pH = 6.5 and Chloride contents from refractometer 115,000ppm.								
22:00:00	Brine rate 100.8 bpd and cumulative = 51.6 bbls. SG of brine 1.090 at 53 degF.								
22:12:00	13/06/02	128.0	625.69	75.53	555.06	71.97	763.19	0.00	0.00
22:24:00	13/06/02	128.0	626.10	76.06	555.92	72.57	770.96	0.00	0.00
22:30:00	BS&W showed 100% brine, pH = 6.5 and Chloride contents from refractometer 116,000ppm.								

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
13/06/02									
22:30:00	Brine rate 81.6 bpd and cumulative = 53.3 bbls.								
22:36:00	13/06/02	128.0	631.41	76.45	561.44	72.88	777.91	0.00	0.00
22:48:00	13/06/02	128.0	631.82	77.42	562.12	73.81	784.45	0.00	0.00
23:00:00	13/06/02	128.0	637.95	77.31	568.37	73.92	790.17	0.00	0.00
23:00:00	BS&W showed 100% brine, pH = 6.5 and Chloride contents from refractometer 113,000ppm.								
23:00:00	Brine rate 52.8 bpd and cumulative = 54.4 bbls. SG of brine 1.090 at 53 degF.								
23:12:00	13/06/02	128.0	638.77	77.48	568.74	74.13	794.26	0.00	0.00
23:24:00	13/06/02	128.0	640.41	77.63	570.70	74.34	797.94	0.00	0.00
23:30:00	BS&W showed 100% brine, pH = 6.5 and Chloride contents from refractometer 110,000ppm.								
23:30:00	Brine rate 48.0 bpd and cumulative = 55.4 bbls.								
23:36:00	13/06/02	128.0	642.86	77.98	572.91	74.63	801.62	0.00	0.00
23:48:00	13/06/02	128.0	644.29	78.23	574.02	74.84	804.49	0.00	0.00
14/06/02									
00:00:00	14/06/02	128.0	645.11	78.15	575.43	74.74	806.53	0.00	0.00
00:00:00	BS&W showed 100% brine, pH = 6.5 and Chloride contents from refractometer 113,000ppm.								
00:00:00	Brine rate 48.0 bpd and cumulative = 56.4 bbls.								
00:12:00	14/06/02	128.0	647.56	78.32	577.14	74.94	809.39	0.00	0.00
00:24:00	14/06/02	128.0	648.17	78.70	578.37	75.38	810.62	0.00	0.00
00:30:00	BS&W showed 100% brine, pH = 6.5 and Chloride contents from refractometer 110,000ppm.								
00:30:00	Brine rate 28.8 bpd and cumulative = 57.0 bbls.								
00:36:00	14/06/02	128.0	647.77	78.85	577.94	75.58	812.67	0.00	0.00
00:48:00	14/06/02	128.0	648.58	78.80	578.74	75.58	814.30	0.00	0.00
01:00:00	14/06/02	128.0	649.40	78.82	579.78	75.49	815.12	0.00	0.00
01:00:00	BS&W showed 100% brine, pH = 6.5 and Chloride contents from refractometer 108,000ppm.								
01:00:00	Brine rate 28.8 bpd and cumulative = 57.6 bbls.								
01:12:00	14/06/02	128.0	649.61	78.86	579.96	75.55	815.94	0.00	0.00
01:24:00	14/06/02	128.0	650.43	78.91	580.45	75.58	817.16	0.00	0.00
01:30:00	Raised orifice plate from separator gas meter run.								
01:31:00	Shut in well at choke manifold.								
01:36:00	14/06/02	0.0	976.90	79.26	0.10	72.04	821.25	0.00	0.00
01:40:00	Commenced POOH coil tubing at 20m / min.								
01:48:00	14/06/02	0.0	979.35	70.39	0.22	70.45	14.98	0.00	0.00
02:00:00	14/06/02	0.0	980.78	65.08	0.00	67.85	10.88	0.00	0.00
02:12:00	14/06/02	0.0	981.81	61.51	0.16	65.73	8.03	0.00	0.00
02:24:00	14/06/02	0.0	982.01	59.30	0.22	63.77	5.57	0.00	0.00
02:36:00	14/06/02	0.0	982.42	57.84	0.00	62.38	5.16	0.00	0.00
02:45:00	Coil tubing at surface.								
02:48:00	14/06/02	0.0	983.03	56.86	0.00	61.39	4.34	0.00	0.00
03:00:00	14/06/02	0.0	983.03	56.20	0.00	60.48	4.75	0.00	0.00
03:00:00	Closed SSSV.								
03:05:00	Bled down pressure above SSSV to 200 psi for inflow test TRSSSV.								
03:12:00	14/06/02	0.0	758.98	55.47	0.00	43.72	4.34	0.00	0.00
03:20:00	Good test. Equalise pressure across and opened TRSSSV.								
03:24:00	14/06/02	0.0	881.02	57.29	0.00	51.59	4.75	0.00	0.00
03:35:00	Closed SSLV.								
03:36:00	14/06/02	0.0	983.65	56.15	0.00	53.28	4.34	0.00	0.00

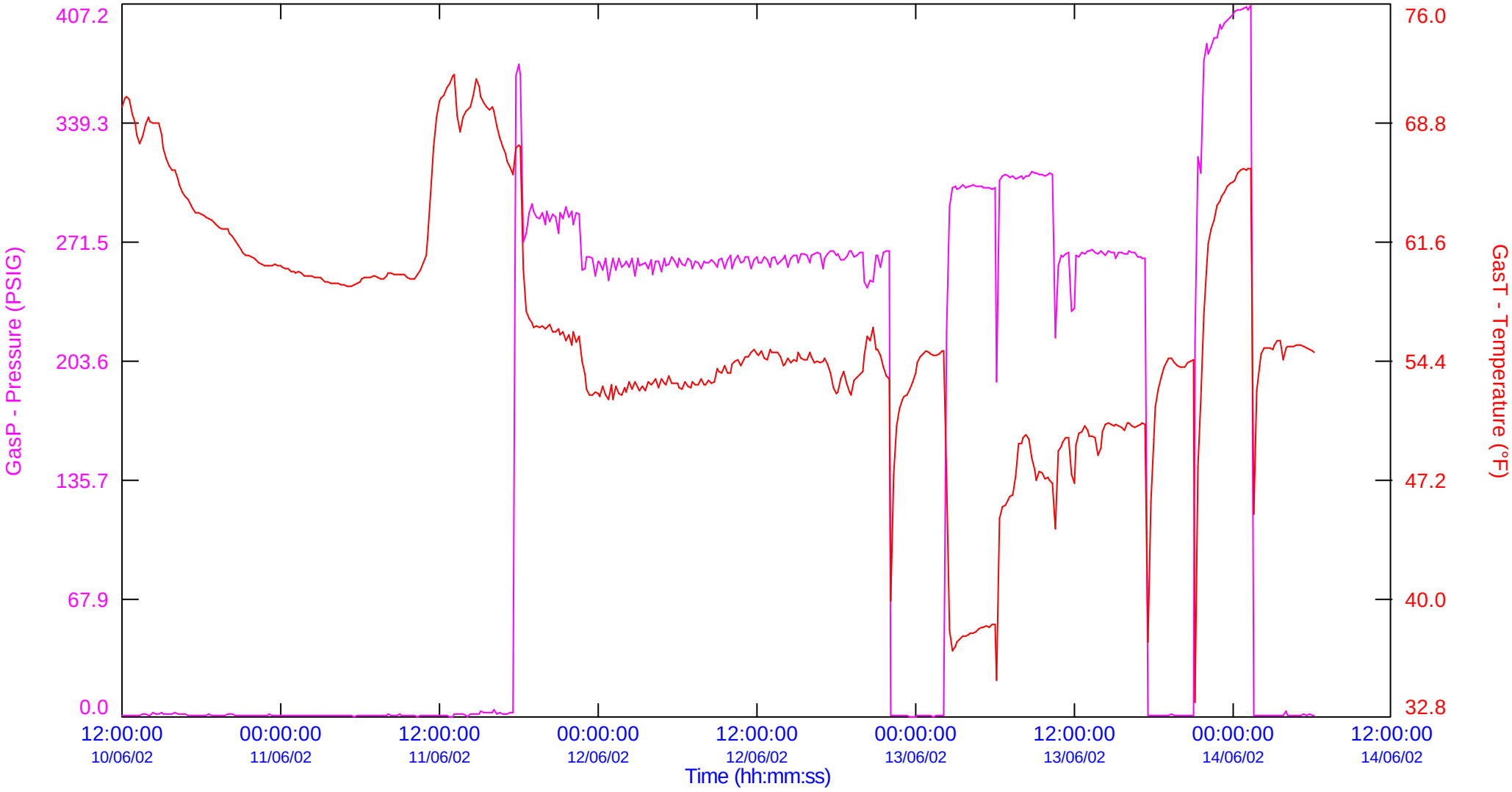
Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	UcT	DcP	DcT	AnnP	SIR 1	S-Rate1
hh:mm:ss	dd/mm/yy	64th	PSIG	°F	PSIG	°F	PSIG	i/s	gm/h
14/06/02									
03:36:00	Bled down pressure above to inflow test SSLV.								
03:43:00	Good test. Closed STT swab valve.								
03:48:00	14/06/02	0.0	2.17	52.79	0.22	48.08	4.34	0.00	0.00
03:48:00	Opened STT swab valve.								
03:52:00	Closed STT master valve and flushed across flowhead to expro surface lines.								
04:00:00	14/06/02	0.0	15.26	57.88	8.99	54.57	4.75	0.00	0.00
04:03:00	Closed STT flow wing valve.								
04:05:00	Opened coil tubing lubricator low torque to vent lubricator section.								
04:12:00	14/06/02	0.0	4.62	59.95	2.00	59.99	5.16	0.00	0.00
04:20:00	Commenced rigging down coil tubing.								
04:24:00	14/06/02	0.0	3.81	58.61	2.06	59.15	4.34	0.00	0.00
04:36:00	14/06/02	0.0	4.01	57.56	2.12	58.71	4.34	0.00	0.00
04:48:00	14/06/02	0.0	4.01	56.85	2.12	58.66	4.75	0.00	0.00
05:00:00	14/06/02	0.0	4.83	56.55	2.19	58.32	5.16	0.00	0.00
05:12:00	14/06/02	0.0	4.42	56.10	2.19	57.94	4.75	0.00	0.00
05:24:00	14/06/02	0.0	4.21	55.76	1.94	57.61	5.16	0.00	0.00
05:36:00	14/06/02	0.0	4.42	55.34	1.57	57.14	5.16	0.00	0.00
05:48:00	14/06/02	0.0	4.83	55.12	1.51	56.72	5.98	0.00	0.00
06:00:00	14/06/02	0.0	5.44	54.90	0.84	56.76	5.57	0.00	0.00
06:00:00	Rigged down injector coil tubing injector head. End Of test.								
06:12:00	14/06/02	0.0	4.83	54.74	0.84	56.49	5.98	0.00	0.00
06:19:00	14/06/02	0.0	5.44	54.68	0.96	56.45	4.75	0.00	0.00

Separator Data Listing

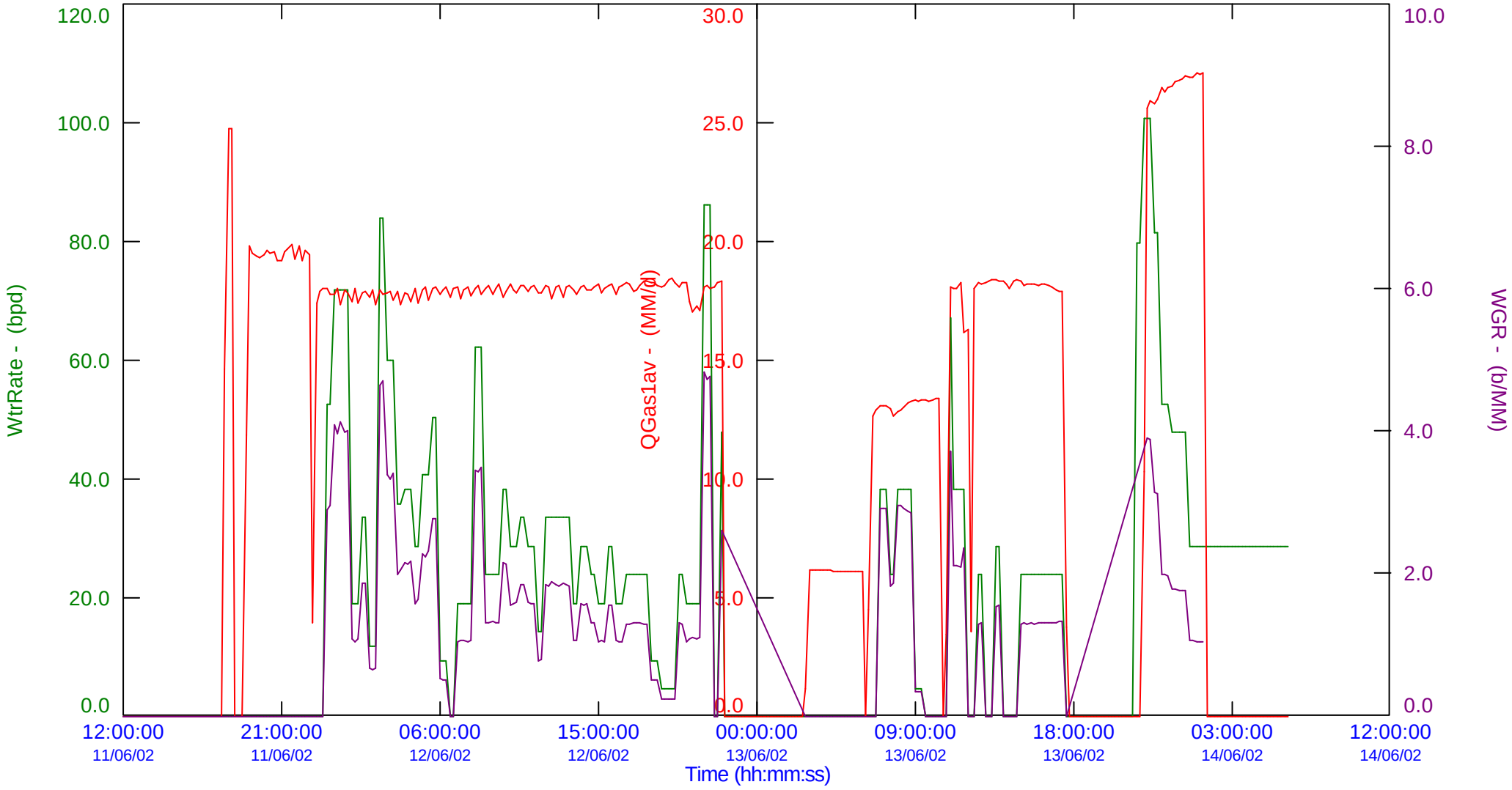
Client	OMV Australia PTY LTD.
Well No.	Baleen 3
Test No.	Completion
Location	Ocean Bounty
Start Date	07/06/02
Country	Australia
Field	VIC/L21
Job Number	J02/188
Formation	Gurnard
Exal Engineer	A.Smith/J.Jie
Expro Supervisor	F.Beaton
Expro Test Crew	B.Farley.J.Anstono,C.Neville,J.Stewart,S.Gurmin
Client Engineer	A.Ion,M.Mulliner
Perforations	Open Hole

Client	OMV Australia PTY LTD.	**Data Type**	EDGE Data
Well No.	Baleen 3	**Comments**	GasP vs GasT
Test No.	Completion		- CleanUp & Flow Periods
Location	Ocean Bounty		



Client OMV Australia PTY LTD.
Well No. Baleen 3
Test No. Completion
Location Ocean Bounty

Data Type EDGE Data
Comments Water Rate vs GAs Rate vs WGR - CleanUp and Flow Periods



Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	GasP	GasT	GasD	CondR	WtrRate	WtrCum	QGas1av	WGR	Orifice
hh:mm:ss	dd/mm/yy	64th	PSIG	PSIG	°F	INWG	bpd	bpd	bbls	MM/d	b/MM	ins
10/06/02												
00:00:00	10/06/02	64	3.0	2.5	59.1	0.0	0.0	0.0	0.0	0.0		0.000
00:12:00	10/06/02	64	2.6	2.4	59.1	0.0	0.0	0.0	0.0	0.0		0.000
00:24:00	10/06/02	64	1.8	2.0	59.1	0.0	0.0	0.0	0.0	0.0		0.000
00:36:00	10/06/02	64	2.0	2.0	59.2	0.0	0.0	0.0	0.0	0.0		0.000
00:48:00	10/06/02	64	2.4	2.1	59.2	0.0	0.0	0.0	0.0	0.0		0.000
01:00:00	10/06/02	64	2.2	2.3	59.2	0.0	0.0	0.0	0.0	0.0		0.000
01:12:00	10/06/02	64	55.7	2.1	59.3	0.0	0.0	0.0	0.0	0.0		0.000
01:24:00	10/06/02	64	43.5	2.1	59.2	0.0	0.0	0.0	0.0	0.0		0.000
01:36:00	10/06/02	0	129.3	2.3	59.2	0.0	0.0	0.0	0.0	0.0		0.000
01:48:00	10/06/02	0	128.5	2.4	59.2	0.0	0.0	0.0	0.0	0.0		0.000
02:00:00	10/06/02	0	128.9	2.4	59.0	0.0	0.0	0.0	0.0	0.0		0.000
02:12:00	10/06/02	0	128.1	2.1	59.0	0.1	0.0	0.0	0.0	0.0		0.000
02:24:00	10/06/02	0	128.1	2.4	59.0	0.1	0.0	0.0	0.0	0.0		0.000
02:36:00	10/06/02	0	127.7	2.5	59.0	0.1	0.0	0.0	0.0	0.0		0.000
02:48:00	10/06/02	0	127.1	2.6	59.0	0.0	0.0	0.0	0.0	0.0		0.000
03:00:00	10/06/02	0	126.1	2.3	58.9	0.0	0.0	0.0	0.0	0.0		0.000
03:12:00	10/06/02	0	125.4	2.0	59.0	0.0	0.0	0.0	0.0	0.0		0.000
03:24:00	10/06/02	0	125.4	2.2	59.1	0.0	0.0	0.0	0.0	0.0		0.000
03:36:00	10/06/02	0	124.4	2.3	59.2	0.0	0.0	0.0	0.0	0.0		0.000
03:48:00	10/06/02	0	124.0	2.0	59.2	0.0	0.0	0.0	0.0	0.0		0.000
04:00:00	10/06/02	0	123.6	2.1	59.3	0.0	0.0	0.0	0.0	0.0		0.000
04:12:00	10/06/02	0	123.0	2.2	59.3	0.0	0.0	0.0	0.0	0.0		0.000
04:24:00	10/06/02	0	122.6	2.4	59.3	0.0	0.0	0.0	0.0	0.0		0.000
04:36:00	10/06/02	0	122.0	2.3	59.2	0.0	0.0	0.0	0.0	0.0		0.000
04:48:00	10/06/02	0	120.3	2.1	59.1	0.0	0.0	0.0	0.0	0.0		0.000
05:00:00	10/06/02	0	119.9	2.6	59.1	0.0	0.0	0.0	0.0	0.0		0.000
05:12:00	10/06/02	0	118.9	2.1	59.0	0.0	0.0	0.0	0.0	0.0		0.000
05:24:00	10/06/02	0	118.3	2.0	59.0	0.0	0.0	0.0	0.0	0.0		0.000
05:36:00	10/06/02	0	123.8	2.4	58.9	0.0	0.0	0.0	0.0	0.0		0.000
05:48:00	10/06/02	0	123.0	2.3	58.8	0.0	0.0	0.0	0.0	0.0		0.000
06:00:00	10/06/02	0	120.5	2.3	58.8	0.0	0.0	0.0	0.0	0.0		0.000

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	GasP	GasT	GasD	CondR	WtrRate	WtrCum	QGas1av	WGR	Orifice
hh:mm:ss	dd/mm/yy	64th	PSIG	PSIG	°F	INWG	bpd	bpd	bbls	MM/d	b/MM	ins
10/06/02												
06:12:00	10/06/02	0	108.1	2.0	58.8	0.0	0.0	0.0	0.0	0.0		0.000
06:24:00	10/06/02	0	101.1	2.1	58.8	0.0	0.0	0.0	0.0	0.0		0.000
06:36:00	10/06/02	0	83.1	1.9	58.8	0.0	0.0	0.0	0.0	0.0		0.000
06:48:00	10/06/02	0	2.4	1.6	58.8	0.0	0.0	0.0	0.0	0.0		0.000
07:00:00	10/06/02	0	2.2	2.0	59.0	0.0	0.0	0.0	0.0	0.0		0.000
07:12:00	10/06/02	0	2.2	2.1	59.2	0.0	0.0	0.0	0.0	0.0		0.000
07:25:00	10/06/02	0	2.4	2.3	59.3	0.0	0.0	0.0	0.0	0.0		0.000
07:36:00	10/06/02	0	2.4	2.4	59.6	0.0	0.0	0.0	0.0	0.0		0.000
07:48:00	10/06/02	0	2.6	1.7	60.0	0.0	0.0	0.0	0.0	0.0		0.000
08:00:00	10/06/02	0	2.8	2.0	60.5	0.0	0.0	0.0	0.0	0.0		0.000
08:12:00	10/06/02	0	2.8	2.2	61.0	0.0	0.0	0.0	0.0	0.0		0.000
08:25:00	10/06/02	0	2.4	2.0	61.2	0.0	0.0	0.0	0.0	0.0		0.000
08:40:00	10/06/02	0	2.2	2.4	61.3	0.0	0.0	0.0	0.0	0.0		0.000
08:50:00	10/06/02	0	2.4	2.3	61.4	0.0	0.0	0.0	0.0	0.0		0.000
09:00:00	10/06/02	0	2.2	2.4	61.4	0.0	0.0	0.0	0.0	0.0		0.000
09:15:00	10/06/02	0	2.6	2.4	61.5	0.0	0.0	0.0	0.0	0.0		0.000
09:25:00	10/06/02	0	2.0	2.4	61.4	0.0	0.0	0.0	0.0	0.0		0.000
09:40:00	10/06/02	0	2.8	3.0	61.0	0.0	0.0	0.0	0.0	0.0		0.000
09:50:00	10/06/02	0	2.2	2.7	60.7	0.1	0.0	0.0	0.0	0.0		0.000
10:00:00	10/06/02	0	2.2	2.0	60.4	0.0	0.0	0.0	0.0	0.0		0.000
10:15:00	10/06/02	0	1.8	2.4	60.1	0.0	0.0	0.0	0.0	0.0		0.000
10:25:00	10/06/02	0	1.8	2.1	60.1	0.0	0.0	0.0	0.0	0.0		0.000
10:40:00	10/06/02	0	2.4	1.6	60.1	0.0	0.0	0.0	0.0	0.0		0.000
10:50:00	10/06/02	0	2.4	1.8	60.4	0.1	0.0	0.0	0.0	0.0		0.000
11:00:00	10/06/02	0	3.0	1.7	60.8	0.1	0.0	0.0	0.0	0.0		0.000
11:15:00	10/06/02	0	3.0	2.1	62.5	0.0	0.0	0.0	0.0	0.0		0.000
11:25:00	10/06/02	0	2.8	2.0	64.8	0.0	0.0	0.0	0.0	0.0		0.000
11:40:00	10/06/02	0	2.6	2.0	67.8	0.0	0.0	0.0	0.0	0.0		0.000
11:50:00	10/06/02	0	2.8	2.0	69.1	0.0	0.0	0.0	0.0	0.0		0.000
12:00:00	10/06/02	0	3.0	2.1	69.8	0.1	0.0	0.0	0.0	0.0		0.000
12:15:00	10/06/02	0	2.6	2.4	70.3	0.0	0.0	0.0	0.0	0.0		0.000

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	GasP	GasT	GasD	CondR	WtrRate	WtrCum	QGas1av	WGR	Orifice
hh:mm:ss	dd/mm/yy	64th	PSIG	PSIG	°F	INWG	bpd	bpd	bbls	MM/d	b/MM	ins
10/06/02												
12:25:00	10/06/02	0	3.2	2.4	70.4	0.1	0.0	0.0	0.0	0.0		0.000
12:36:00	10/06/02	0	3.0	2.4	70.2	0.1	0.0	0.0	0.0	0.0		0.000
12:48:00	10/06/02	0	2982.4	2.3	69.4	0.1	0.0	0.0	0.0	0.0		0.000
13:00:00	10/06/02	0	24.5	2.3	68.8	0.0	0.0	0.0	0.0	0.0		0.000
13:12:00	10/06/02	0	24.7	2.3	68.1	0.0	0.0	0.0	0.0	0.0		0.000
13:24:00	10/06/02	0	4.2	2.3	67.5	0.1	0.0	0.0	0.0	0.0		0.000
13:36:00	10/06/02	0	4.0	2.7	68.0	0.0	0.0	0.0	0.0	0.0		0.000
13:48:00	10/06/02	0	7.9	2.5	68.8	0.0	0.0	0.0	0.0	0.0		0.000
14:00:00	10/06/02	0	78.0	2.3	69.2	0.0	0.0	0.0	0.0	0.0		0.000
14:12:00	10/06/02	0	26.7	2.1	68.9	0.0	0.0	0.0	0.0	0.0		0.000
14:24:00	10/06/02	0	27.1	3.4	68.8	0.0	0.0	0.0	0.0	0.0		0.000
14:36:00	10/06/02	0	26.7	3.4	68.8	0.1	0.0	0.0	0.0	0.0		0.000
14:48:00	10/06/02	0	26.3	3.4	68.8	0.1	0.0	0.0	0.0	0.0		0.000
15:00:00	10/06/02	0	26.3	3.7	68.1	0.1	0.0	0.0	0.0	0.0		0.000
15:12:00	10/06/02	0	26.7	3.4	67.3	0.1	0.0	0.0	0.0	0.0		0.000
15:24:00	10/06/02	0	27.1	2.7	66.7	0.1	0.0	0.0	0.0	0.0		0.000
15:36:00	10/06/02	0	25.9	2.7	66.2	0.0	0.0	0.0	0.0	0.0		0.000
15:48:00	10/06/02	0	25.9	2.9	66.0	0.1	0.0	0.0	0.0	0.0		0.000
16:00:00	10/06/02	0	26.1	3.7	66.0	0.1	0.0	0.0	0.0	0.0		0.000
16:15:00	10/06/02	0	25.9	2.7	65.4	0.1	0.0	0.0	0.0	0.0		0.000
16:25:00	10/06/02	0	25.1	2.7	65.1	0.1	0.0	0.0	0.0	0.0		0.000
16:40:00	10/06/02	0	25.3	2.7	64.6	0.1	0.0	0.0	0.0	0.0		0.000
16:50:00	10/06/02	0	25.5	2.8	64.4	0.1	0.0	0.0	0.0	0.0		0.000
17:00:00	10/06/02	0	26.3	2.4	64.2	0.1	0.0	0.0	0.0	0.0		0.000
17:15:00	10/06/02	0	26.5	2.4	63.9	0.1	0.0	0.0	0.0	0.0		0.000
17:25:00	10/06/02	0	26.5	2.3	63.6	0.1	0.0	0.0	0.0	0.0		0.000
17:40:00	10/06/02	0	25.5	1.8	63.4	0.1	0.0	0.0	0.0	0.0		0.000
17:50:00	10/06/02	0	25.9	2.4	63.4	0.1	0.0	0.0	0.0	0.0		0.000
18:00:00	10/06/02	0	26.5	2.4	63.3	0.1	0.0	0.0	0.0	0.0		0.000
18:15:00	10/06/02	0	26.5	2.3	63.3	0.1	0.0	0.0	0.0	0.0		0.000
18:25:00	10/06/02	0	26.1	2.1	63.1	0.1	0.0	0.0	0.0	0.0		0.000

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	GasP	GasT	GasD	CondR	WtrRate	WtrCum	QGas1av	WGR	Orifice
hh:mm:ss	dd/mm/yy	64th	PSIG	PSIG	°F	INWG	bpd	bpd	bbls	MM/d	b/MM	ins
10/06/02												
18:40:00	10/06/02	0	26.7	2.6	63.0	0.1	0.0	0.0	0.0	0.0		0.000
18:50:00	10/06/02	0	25.7	2.0	62.9	0.1	0.0	0.0	0.0	0.0		0.000
19:00:00	10/06/02	0	26.3	2.3	62.8	0.1	0.0	0.0	0.0	0.0		0.000
19:15:00	10/06/02	0	26.7	2.3	62.6	0.1	0.0	0.0	0.0	0.0		0.000
19:25:00	10/06/02	0	26.5	2.1	62.5	0.1	0.0	0.0	0.0	0.0		0.000
19:40:00	10/06/02	0	25.5	2.0	62.4	0.1	0.0	0.0	0.0	0.0		0.000
19:50:00	10/06/02	0	25.1	2.1	62.4	0.1	0.0	0.0	0.0	0.0		0.000
20:00:00	10/06/02	0	26.5	2.7	62.4	0.1	0.0	0.0	0.0	0.0		0.000
20:12:01	10/06/02	0	25.9	3.0	62.2	0.1	0.0	0.0	0.0	0.0		0.000
20:24:00	10/06/02	0	31.6	2.7	62.0	0.1	0.0	0.0	0.0	0.0		0.000
20:36:00	10/06/02	0	40.4	2.3	61.7	0.0	0.0	0.0	0.0	0.0		0.000
20:48:00	10/06/02	0	3119.3	2.3	61.4	0.1	0.0	0.0	0.0	0.0		0.000
21:00:00	10/06/02	0	793.9	2.3	61.2	0.1	0.0	0.0	0.0	0.0		0.000
21:12:00	10/06/02	0	8.1	2.3	61.0	0.1	0.0	0.0	0.0	0.0		0.000
21:24:00	10/06/02	96	6.5	2.4	60.8	0.1	0.0	0.0	0.0	0.0		0.000
21:36:00	10/06/02	96	6.9	2.1	60.8	0.1	0.0	0.0	0.0	0.0		0.000
21:48:00	10/06/02	96	6.9	2.3	60.7	0.1	0.0	0.0	0.0	0.0		0.000
22:00:00	10/06/02	96	6.3	2.4	60.6	0.1	0.0	0.0	0.0	0.0		0.000
22:12:00	10/06/02	0	190.9	2.4	60.5	0.1	0.0	0.0	0.0	0.0		0.000
22:24:00	10/06/02	16	255.9	2.3	60.4	0.1	0.0	0.0	0.0	0.0		0.000
22:36:00	10/06/02	84	112.6	2.1	60.3	0.1	0.0	0.0	0.0	0.0		0.000
22:48:00	10/06/02	0	80.3	2.1	60.2	0.1	0.0	0.0	0.0	0.0		0.000
23:00:00	10/06/02	0	87.4	2.2	60.2	0.1	0.0	0.0	0.0	0.0		0.000
23:12:00	10/06/02	0	88.4	2.5	60.2	0.1	0.0	0.0	0.0	0.0		0.000
23:24:00	10/06/02	0	5.0	2.3	60.2	0.1	0.0	0.0	0.0	0.0		0.000
23:36:00	10/06/02	0	5.4	2.3	60.3	0.1	0.0	0.0	0.0	0.0		0.000
23:48:00	10/06/02	0	5.4	2.3	60.2	0.1	0.0	0.0	0.0	0.0		0.000
11/06/02												
00:00:00	11/06/02	0	5.0	2.3	60.2	0.1	0.0	0.0	0.0	0.0		0.000
00:12:00	11/06/02	0	5.2	2.3	60.1	0.1	0.0	0.0	0.0	0.0		0.000

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	GasP	GasT	GasD	CondR	WtrRate	WtrCum	QGas1av	WGR	Orifice
hh:mm:ss	dd/mm/yy	64th	PSIG	PSIG	°F	INWG	bpd	bpd	bbls	MM/d	b/MM	ins
11/06/02												
00:24:00	11/06/02	0	4.8	2.4	60.0	0.1	0.0	0.0	0.0	0.0		0.000
00:36:00	11/06/02	128	2.6	2.1	60.0	0.1	0.0	0.0	0.0	0.0		0.000
00:48:00	11/06/02	128	3.4	2.3	59.8	0.1	0.0	0.0	0.0	0.0		0.000
01:00:00	11/06/02	28	695.2	2.3	59.8	0.0	0.0	0.0	0.0	0.0		0.000
01:12:00	11/06/02	0	870.4	2.1	59.8	0.1	0.0	0.0	0.0	0.0		0.000
01:24:00	11/06/02	0	890.2	2.3	59.8	0.0	0.0	0.0	0.0	0.0		0.000
01:36:00	11/06/02	0	888.4	2.1	59.7	0.1	0.0	0.0	0.0	0.0		0.000
01:48:00	11/06/02	0	888.4	2.3	59.6	0.1	0.0	0.0	0.0	0.0		0.000
02:00:00	11/06/02	0	887.8	2.3	59.6	0.1	0.0	0.0	0.0	0.0		0.000
02:12:00	11/06/02	0	887.4	2.3	59.6	0.1	0.0	0.0	0.0	0.0		0.000
02:24:00	11/06/02	0	887.6	2.1	59.6	0.1	0.0	0.0	0.0	0.0		0.000
02:36:00	11/06/02	0	887.2	2.3	59.5	0.0	0.0	0.0	0.0	0.0		0.000
02:48:00	11/06/02	0	887.4	2.3	59.5	0.1	0.0	0.0	0.0	0.0		0.000
03:00:00	11/06/02	0	887.2	2.1	59.5	0.1	0.0	0.0	0.0	0.0		0.000
03:12:00	11/06/02	0	890.4	2.4	59.4	0.1	0.0	0.0	0.0	0.0		0.000
03:24:00	11/06/02	0	893.3	2.1	59.2	0.0	0.0	0.0	0.0	0.0		0.000
03:36:00	11/06/02	0	893.9	2.1	59.2	0.1	0.0	0.0	0.0	0.0		0.000
03:48:00	11/06/02	0	892.5	2.1	59.1	0.0	0.0	0.0	0.0	0.0		0.000
04:00:00	11/06/02	0	894.5	2.1	59.1	0.1	0.0	0.0	0.0	0.0		0.000
04:12:00	11/06/02	0	896.1	2.3	59.1	0.0	0.0	0.0	0.0	0.0		0.000
04:24:00	11/06/02	0	893.3	2.4	59.1	0.1	0.0	0.0	0.0	0.0		0.000
04:36:00	11/06/02	0	2.6	2.0	59.1	0.1	0.0	0.0	0.0	0.0		0.000
04:48:00	11/06/02	0	2.8	2.0	59.0	0.1	0.0	0.0	0.0	0.0		0.000
05:00:00	11/06/02	0	2.6	2.1	59.0	0.0	0.0	0.0	0.0	0.0		0.000
05:12:00	11/06/02	0	2.4	2.3	58.9	0.1	0.0	0.0	0.0	0.0		0.000
05:24:00	11/06/02	0	2.4	2.1	58.9	0.1	0.0	0.0	0.0	0.0		0.000
05:36:00	11/06/02	0	2.2	1.6	59.0	0.1	0.0	0.0	0.0	0.0		0.000
05:48:00	11/06/02	0	2.4	2.1	59.1	0.1	0.0	0.0	0.0	0.0		0.000
06:00:00	11/06/02	0	2.4	2.3	59.3	0.0	0.0	0.0	0.0	0.0		0.000
06:12:00	11/06/02	0	2.4	2.1	59.4	0.1	0.0	0.0	0.0	0.0		0.000
06:24:00	11/06/02	0	2.4	2.1	59.5	0.1	0.0	0.0	0.0	0.0		0.000

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time hh:mm:ss	Date dd/mm/yy	Choke 64th	UcP PSIG	GasP PSIG	GasT °F	GasD INWG	CondR bpd	WtrRate bpd	WtrCum bbls	QGas1av MM/d	WGR b/MM	Orifice ins
11/06/02												
06:36:00	11/06/02	0	3.0	2.0	59.5	0.1	0.0	0.0	0.0	0.0		0.000
06:48:00	11/06/02	0	2.6	2.4	59.5	0.0	0.0	0.0	0.0	0.0		0.000
07:00:00	11/06/02	0	2.6	2.3	59.5	0.0	0.0	0.0	0.0	0.0		0.000
07:12:00	11/06/02	0	2.8	2.3	59.5	0.0	0.0	0.0	0.0	0.0		0.000
07:24:00	11/06/02	0	2.4	2.3	59.5	0.1	0.0	0.0	0.0	0.0		0.000
07:36:00	11/06/02	0	3.0	2.3	59.4	0.0	0.0	0.0	0.0	0.0		0.000
07:48:00	11/06/02	0	3.0	1.8	59.4	0.0	0.0	0.0	0.0	0.0		0.000
08:00:00	11/06/02	0	425.8	2.1	59.6	0.0	0.0	0.0	0.0	0.0		0.000
08:12:00	11/06/02	0	1173.4	2.7	59.7	0.1	0.0	0.0	0.0	0.0		0.000
08:24:00	11/06/02	0	912.9	2.3	59.8	0.1	0.0	0.0	0.0	0.0		0.000
08:36:00	11/06/02	0	912.5	2.4	59.7	0.1	0.0	0.0	0.0	0.0		0.000
08:48:00	11/06/02	0	216.6	2.3	59.7	0.0	0.0	0.0	0.0	0.0		0.000
09:00:00	11/06/02	0	3.2	2.7	59.7	0.0	0.0	0.0	0.0	0.0		0.000
09:12:00	11/06/02	0	2.6	2.3	59.7	0.1	0.0	0.0	0.0	0.0		0.000
09:24:00	11/06/02	0	2.8	2.4	59.6	0.0	0.0	0.0	0.0	0.0		0.000
09:36:00	11/06/02	0	2.6	2.0	59.4	0.0	0.0	0.0	0.0	0.0		0.000
09:48:00	11/06/02	0	2.4	2.2	59.4	0.0	0.0	0.0	0.0	0.0		0.000
10:00:00	11/06/02	0	4.6	2.0	59.4	0.0	0.0	0.0	0.0	0.0		0.000
10:12:00	11/06/02	0	2992.8	1.9	59.4	0.0	0.0	0.0	0.0	0.0		0.000
10:24:00	11/06/02	0	899.0	1.6	59.7	0.0	0.0	0.0	0.0	0.0		0.000
10:36:00	11/06/02	0	898.2	2.0	60.0	0.1	0.0	0.0	0.0	0.0		0.000
10:48:00	11/06/02	0	910.5	2.1	60.3	0.1	0.0	0.0	0.0	0.0		0.000
11:00:00	11/06/02	0	916.2	1.9	60.8	0.1	0.0	0.0	0.0	0.0		0.000
11:12:00	11/06/02	0	921.7	2.1	62.0	0.0	0.0	0.0	0.0	0.0		0.000
11:24:00	11/06/02	0	928.5	2.0	64.7	0.1	0.0	0.0	0.0	0.0		0.000
11:36:00	11/06/02	0	934.2	2.1	67.3	0.0	0.0	0.0	0.0	0.0		0.000
11:48:00	11/06/02	0	938.3	2.0	69.2	0.0	0.0	0.0	0.0	0.0		0.000
12:00:00	11/06/02	0	938.3	2.4	70.1	0.1	0.0	0.0	0.0	0.0		0.000
12:12:00	11/06/02	0	939.3	2.3	70.3	0.1	0.0	0.0	0.0	0.0		0.000
12:24:00	11/06/02	0	938.1	2.4	70.5	0.1	0.0	0.0	0.0	0.0		0.000
12:36:00	11/06/02	0	937.6	2.0	70.9	0.1	0.0	0.0	0.0	0.0		0.000

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time hh:mm:ss	Date dd/mm/yy	Choke 64th	UcP PSIG	GasP PSIG	GasT °F	GasD INWG	CondR bpd	WtrRate bpd	WtrCum bbls	QGas1av MM/d	WGR b/MM	Orifice ins
11/06/02												
12:48:00	11/06/02	16	886.1	1.6	71.2	0.0	0.0	0.0	0.0	0.0		0.000
13:00:00	11/06/02	28	680.1	1.4	71.7	0.0	0.0	0.0	0.0	0.0		0.000
13:12:00	11/06/02	32	861.8	3.0	71.7	0.0	0.0	0.0	0.0	0.0		0.000
13:24:00	11/06/02	40	816.8	3.1	69.3	0.1	0.0	0.0	0.0	0.0		0.000
13:36:00	11/06/02	56	717.9	2.7	68.3	0.0	0.0	0.0	0.0	0.0		0.000
13:48:00	11/06/02	64	750.0	2.7	69.2	0.0	0.0	0.0	0.0	0.0		0.000
14:00:00	11/06/02	68	744.0	2.3	69.5	0.0	0.0	0.0	0.0	0.0		0.000
14:12:00	11/06/02	72	691.5	1.6	69.6	0.0	0.0	0.0	0.0	0.0		0.000
14:24:00	11/06/02	80	846.7	2.7	69.8	0.0	0.0	0.0	0.0	0.0		0.000
14:36:00	11/06/02	80	855.7	2.7	70.5	0.0	0.0	0.0	0.0	0.0		0.000
14:48:00	11/06/02	80	865.9	3.3	71.5	0.1	0.0	0.0	0.0	0.0		0.000
15:00:00	11/06/02	88	753.7	2.6	71.0	0.1	0.0	0.0	0.0	0.0		0.000
15:12:00	11/06/02	88	792.3	4.3	70.4	0.1	0.0	0.0	0.0	0.0		0.000
15:24:00	11/06/02	88	755.1	4.0	70.1	0.0	0.0	0.0	0.0	0.0		0.000
15:36:00	11/06/02	88	777.6	4.0	69.8	0.0	0.0	0.0	0.0	0.0		0.000
15:48:00	11/06/02	92	751.4	3.7	69.6	0.1	0.0	0.0	0.0	0.0		0.000
16:00:00	11/06/02	92	708.7	3.7	69.8	0.0	0.0	0.0	0.0	0.0		0.000
16:12:00	11/06/02	92	707.5	5.1	69.5	0.1	0.0	0.0	0.0	0.0		0.000
16:24:00	11/06/02	96	741.4	2.9	68.7	0.1	0.0	0.0	0.0	0.0		0.000
16:36:00	11/06/02	100	732.2	3.4	68.0	0.1	0.0	0.0	0.0	0.0		0.000
16:48:00	11/06/02	104	671.7	3.1	67.4	0.0	0.0	0.0	0.0	0.0		0.000
17:00:00	11/06/02	112	620.2	3.0	67.0	0.0	0.0	0.0	0.0	0.0		0.000
17:12:00	11/06/02	128	617.5	3.4	66.5	0.1	0.0	0.0	0.0	0.0		0.000
17:24:00	11/06/02	128	626.9	3.5	66.1	0.0	0.0	0.0	0.0	0.0		0.000
17:36:00	11/06/02	192	605.0	3.7	65.7	0.0	0.0	0.0	0.0	0.0		0.000
17:48:00	11/06/02	192	605.9	366.3	67.3	79.8	0.0	0.0	0.0	14.6	0.000	4.250
18:00:00	11/06/02	192	605.2	373.3	67.5	82.3	0.0	0.0	0.0	24.8	0.000	4.250
18:12:00	11/06/02	192	605.2	367.5	67.4	81.8	0.0	0.0	0.0	24.8	0.000	4.250
18:24:00	11/06/02	62	806.8	272.1	60.0	0.5	0.0	0.0	0.0	0.0		0.000
18:36:00	11/06/02	62	800.9	277.2	57.5	0.8	0.0	0.0	0.0	0.0		0.000
18:48:00	11/06/02	64	789.6	288.5	57.0	0.8	0.0	0.0	0.0	0.0		0.000

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	GasP	GasT	GasD	CondR	WtrRate	WtrCum	QGas1av	WGR	Orifice
hh:mm:ss	dd/mm/yy	64th	PSIG	PSIG	°F	INWG	bpd	bpd	bbls	MM/d	b/MM	ins
11/06/02												
19:00:00	11/06/02	64	793.9	293.4	56.7	121.5	0.0	0.0	0.0	11.9	0.000	3.750
19:12:00	11/06/02	64	787.0	289.3	56.5	120.9	0.0	0.0	0.0	19.8	0.000	3.750
19:24:00	11/06/02	64	786.4	286.5	56.5	119.7	0.0	0.0	0.0	19.5	0.000	3.750
19:36:00	11/06/02	64	787.0	285.2	56.4	119.3	0.0	0.0	0.0	19.4	0.000	3.750
19:48:00	11/06/02	64	788.4	288.6	56.5	120.8	0.0	0.0	0.0	19.4	0.000	3.750
20:00:00	11/06/02	64	784.1	282.3	56.4	118.3	0.0	0.0	0.0	19.5	0.000	3.750
20:12:00	11/06/02	64	786.4	289.2	56.5	122.6	0.0	0.0	0.0	19.7	0.000	3.750
20:24:00	11/06/02	64	787.2	283.4	56.6	119.5	0.0	0.0	0.0	19.5	0.000	3.750
20:36:00	11/06/02	64	790.3	287.6	56.2	121.0	0.0	0.0	2.0	19.6	0.000	3.750
20:48:00	11/06/02	64	785.8	286.4	56.2	120.3	0.0	0.0	2.0	19.2	0.000	3.750
21:00:00	11/06/02	64	776.8	277.2	56.3	117.0	0.0	0.0	2.0	19.2	0.000	3.750
21:12:00	11/06/02	64	787.8	288.9	56.0	122.0	0.0	0.0	2.0	19.6	0.000	3.750
21:24:00	11/06/02	64	784.9	284.9	56.2	120.2	0.0	0.0	2.0	19.7	0.000	3.750
21:36:00	11/06/02	64	793.3	292.0	55.6	122.6	0.0	0.0	2.0	19.9	0.000	3.750
21:48:00	11/06/02	64	784.1	286.1	56.0	120.7	0.0	0.0	2.0	19.3	0.000	3.750
22:00:00	11/06/02	64	787.4	289.6	55.4	122.9	0.0	0.0	6.0	19.9	0.000	3.750
22:12:00	11/06/02	64	783.5	282.0	56.2	118.5	0.0	0.0	6.0	19.2	0.000	3.750
22:24:00	11/06/02	64	783.5	288.9	55.5	121.8	0.0	0.0	6.0	19.7	0.000	3.750
22:36:00	11/06/02	64	786.0	287.6	56.0	121.0	0.0	0.0	6.0	19.5	0.000	3.750
22:48:00	11/06/02	60	825.8	255.7	54.4	0.7	0.0	0.0	6.0	4.0	0.000	3.750
23:00:00	11/06/02	60	830.9	256.6	53.6	107.2	0.0	0.0	7.9	17.4	0.000	3.750
23:12:00	11/06/02	60	838.5	263.4	52.8	109.9	0.0	0.0	7.9	17.9	0.000	3.750
23:24:00	11/06/02	60	839.9	263.7	52.4	111.5	0.0	0.0	7.9	18.1	0.000	3.750
23:36:00	11/06/02	60	837.1	262.9	52.4	110.6	0.0	52.8	9.0	18.1	2.920	3.750
23:48:00	11/06/02	60	824.2	253.0	52.6	107.8	0.0	52.8	9.0	17.8	2.970	3.750
12/06/02												
00:00:00	12/06/02	60	836.3	260.6	52.5	110.2	0.0	72.0	10.5	17.8	4.100	3.750
00:12:00	12/06/02	60	831.5	260.4	52.2	110.7	0.0	72.0	10.5	18.1	3.990	3.750
00:24:00	12/06/02	60	827.3	255.7	52.9	108.3	0.0	72.0	10.5	17.4	4.140	3.750
00:36:00	12/06/02	60	838.7	262.8	52.4	111.2	0.0	72.0	10.5	18.0	4.000	3.750

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time hh:mm:ss	Date dd/mm/yy	Choke 64th	UcP PSIG	GasP PSIG	GasT °F	GasD INWG	CondR bpd	WtrRate bpd	WtrCum bbls	QGas1av MM/d	WGR b/MM	Orifice ins
12/06/02												
00:48:00	12/06/02	60	824.6	250.3	52.1	106.3	0.0	72.0	10.5	17.9	4.030	3.750
01:00:00	12/06/02	60	835.0	258.5	53.0	109.1	0.0	19.2	11.3	17.5	1.100	3.750
01:12:00	12/06/02	60	834.6	262.3	52.1	111.6	0.0	19.2	11.3	18.0	1.060	3.750
01:24:00	12/06/02	60	826.2	256.3	52.9	108.5	0.0	19.2	11.3	17.4	1.100	3.750
01:36:00	12/06/02	60	837.5	262.4	52.5	110.8	0.0	33.6	12.0	17.9	1.880	3.750
01:48:00	12/06/02	60	820.5	257.4	52.4	109.0	0.0	33.6	12.0	17.9	1.880	3.750
02:00:00	12/06/02	60	833.2	259.4	52.8	109.3	0.0	12.0	12.3	17.7	0.690	3.750
02:12:00	12/06/02	60	830.7	260.8	52.5	110.0	0.0	12.0	12.3	18.0	0.670	3.750
02:24:00	12/06/02	60	830.5	257.5	53.2	108.3	0.0	12.0	12.3	17.4	0.690	3.750
02:36:00	12/06/02	60	838.1	262.8	52.7	111.0	0.0	84.0	14.0	18.0	4.670	3.750
02:48:00	12/06/02	60	823.4	252.2	53.2	106.8	0.0	84.0	14.0	17.8	4.720	3.750
03:00:00	12/06/02	60	835.4	262.4	52.8	110.3	0.0	60.0	15.3	17.9	3.400	3.750
03:12:00	12/06/02	60	822.8	258.4	52.6	108.7	0.0	60.0	15.3	17.9	3.350	3.750
03:24:00	12/06/02	60	833.2	259.4	52.9	110.0	0.0	60.0	15.3	17.5	3.420	3.750
03:36:00	12/06/02	60	827.7	260.4	52.7	109.1	0.0	36.0	16.0	17.9	2.010	3.750
03:48:00	12/06/02	60	825.2	256.7	53.2	108.2	0.0	36.0	16.0	17.4	2.070	3.750
04:00:00	12/06/02	60	835.2	262.1	53.0	110.7	0.0	38.4	16.8	17.9	2.170	3.750
04:12:00	12/06/02	60	822.4	253.8	53.1	107.5	0.0	38.4	16.8	17.8	2.160	3.750
04:24:00	12/06/02	60	834.8	261.1	53.4	110.5	0.0	38.4	16.8	17.5	2.200	3.750
04:36:00	12/06/02	60	831.1	261.4	52.8	111.1	0.0	28.8	17.4	18.0	1.600	3.750
04:48:00	12/06/02	60	826.0	255.0	53.4	108.5	0.0	28.8	17.4	17.4	1.650	3.750
05:00:00	12/06/02	60	837.5	262.7	53.1	111.2	0.0	40.8	19.3	18.0	2.300	3.750
05:12:00	12/06/02	60	823.6	258.8	53.0	110.0	0.0	40.8	19.3	18.1	2.250	3.750
05:24:00	12/06/02	60	834.0	259.6	53.5	109.8	0.0	40.8	19.3	17.5	2.330	3.750
05:36:00	12/06/02	60	838.7	263.8	53.1	111.6	0.0	50.4	20.3	18.1	2.790	3.750
05:48:00	12/06/02	60	826.4	260.8	53.1	109.7	0.0	50.4	20.3	18.1	2.790	3.750
06:00:00	12/06/02	60	831.1	257.7	53.1	108.9	0.0	9.6	20.5	17.8	0.540	3.750
06:12:00	12/06/02	60	838.1	263.1	52.8	110.4	0.0	9.6	20.5	18.0	0.530	3.750
06:24:00	12/06/02	60	825.6	259.0	52.8	110.2	0.0	9.6	20.5	18.1	0.530	3.750
06:36:00	12/06/02	60	833.0	258.7	53.2	109.3	0.0	0.0	20.5	17.7	0.000	3.750
06:48:00	12/06/02	60	838.5	263.1	52.9	112.2	0.0	0.0	20.5	18.1	0.000	3.750

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	GasP	GasT	GasD	CondR	WtrRate	WtrCum	QGas1av	WGR	Orifice
hh:mm:ss	dd/mm/yy	64th	PSIG	PSIG	°F	INWG	bpd	bpd	bbls	MM/d	b/MM	ins
12/06/02												
07:00:00	12/06/02	60	831.5	260.8	52.8	111.1	0.0	19.2	20.9	18.1	1.060	3.750
07:12:00	12/06/02	60	832.6	257.0	53.2	109.4	0.0	19.2	20.9	17.6	1.090	3.750
07:24:00	12/06/02	60	838.5	261.4	53.0	111.8	0.0	19.2	20.9	18.0	1.070	3.750
07:36:00	12/06/02	60	833.0	260.5	53.0	111.9	0.0	19.2	21.3	18.1	1.060	3.750
07:48:00	12/06/02	60	832.8	257.1	53.4	110.7	0.0	19.2	21.3	17.8	1.080	3.750
08:00:00	12/06/02	60	837.7	261.1	53.0	111.7	0.0	62.4	22.6	18.1	3.460	3.750
08:12:00	12/06/02	60	831.3	260.4	53.0	112.1	0.0	62.4	22.6	18.2	3.440	3.750
08:24:00	12/06/02	60	834.6	260.1	53.3	111.3	0.0	62.4	22.6	17.8	3.500	3.750
08:36:00	12/06/02	60	839.3	261.5	53.1	111.7	0.0	24.0	23.1	18.1	1.330	3.750
08:48:00	12/06/02	60	832.2	260.4	53.2	112.2	0.0	24.0	23.1	18.2	1.320	3.750
09:00:00	12/06/02	60	832.6	258.1	53.9	110.9	0.0	24.0	23.6	17.8	1.350	3.750
09:12:00	12/06/02	60	839.3	261.4	53.8	112.7	0.0	24.0	23.6	18.1	1.330	3.750
09:24:00	12/06/02	60	837.3	262.6	53.7	112.1	0.0	24.0	23.6	18.2	1.320	3.750
09:36:00	12/06/02	60	829.3	256.4	54.1	109.5	0.0	38.4	24.4	17.7	2.170	3.750
09:48:00	12/06/02	60	837.9	262.0	53.7	112.3	0.0	38.4	24.4	18.0	2.140	3.750
10:00:00	12/06/02	60	840.3	264.1	53.7	112.5	0.0	28.8	25.0	18.3	1.580	3.750
10:12:00	12/06/02	60	824.8	256.9	54.2	110.0	0.0	28.8	25.0	18.0	1.600	3.750
10:24:00	12/06/02	60	837.7	261.9	54.4	112.0	0.0	28.8	25.0	17.9	1.610	3.750
10:36:00	12/06/02	60	840.8	264.1	54.5	112.4	0.0	33.8	25.7	18.2	1.860	3.750
10:48:00	12/06/02	60	829.7	260.5	54.2	111.0	0.0	33.8	25.7	18.2	1.860	3.750
11:00:00	12/06/02	60	836.9	261.1	54.5	111.4	0.0	28.8	26.3	17.9	1.620	3.750
11:12:00	12/06/02	60	841.2	263.5	54.7	112.7	0.0	28.8	26.3	18.1	1.590	3.750
11:24:00	12/06/02	60	841.6	263.8	54.6	113.3	0.0	28.8	26.3	18.2	1.590	3.750
11:36:00	12/06/02	60	830.1	256.4	54.9	110.0	0.0	14.4	26.6	17.9	0.800	3.750
11:48:00	12/06/02	60	838.9	262.1	55.1	112.1	0.0	14.4	26.6	17.9	0.810	3.750
12:00:00	12/06/02	60	841.8	263.8	54.8	112.9	0.0	33.6	27.3	18.2	1.860	3.750
12:12:00	12/06/02	60	829.1	260.0	54.7	111.4	0.0	33.6	27.3	18.1	1.850	3.750
12:24:00	12/06/02	60	836.5	260.4	55.0	111.3	0.0	33.6	27.3	17.6	1.910	3.750
12:36:00	12/06/02	60	839.7	263.8	54.6	112.5	0.0	33.6	28.0	18.1	1.860	3.750
12:48:00	12/06/02	60	833.8	262.0	54.5	111.9	0.0	33.6	28.0	18.2	1.850	3.750
13:00:00	12/06/02	60	833.6	257.7	55.1	110.4	0.0	33.6	28.7	17.7	1.890	3.750

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	GasP	GasT	GasD	CondR	WtrRate	WtrCum	QGas1av	WGR	Orifice
hh:mm:ss	dd/mm/yy	64th	PSIG	PSIG	°F	INWG	bpd	bpd	bbls	MM/d	b/MM	ins
12/06/02												
13:12:00	12/06/02	60	839.5	262.7	55.0	112.8	0.0	33.6	28.7	18.1	1.860	3.750
13:24:00	12/06/02	60	841.2	263.7	54.9	112.6	0.0	33.6	28.7	18.2	1.850	3.750
13:36:00	12/06/02	60	827.0	259.5	55.0	110.4	0.0	19.2	29.1	18.0	1.070	3.750
13:48:00	12/06/02	60	838.9	261.4	54.6	111.4	0.0	19.2	29.1	17.8	1.080	3.750
14:00:00	12/06/02	60	839.7	263.0	54.2	112.5	0.0	28.8	29.7	18.1	1.590	3.750
14:12:00	12/06/02	60	841.8	264.6	54.2	111.2	0.0	28.8	29.7	18.2	1.580	3.750
14:24:00	12/06/02	60	829.9	258.0	54.6	109.7	0.0	28.8	29.7	18.0	1.600	3.750
14:36:00	12/06/02	60	838.5	262.8	54.4	112.1	0.0	24.0	30.2	18.0	1.330	3.750
14:48:00	12/06/02	60	841.0	264.1	54.5	112.8	0.0	24.0	30.2	18.1	1.320	3.750
15:00:00	12/06/02	60	839.1	264.6	54.4	112.7	0.0	19.2	30.6	18.3	1.050	3.750
15:12:00	12/06/02	60	834.6	260.0	55.0	110.5	0.0	19.2	30.6	17.9	1.070	3.750
15:24:00	12/06/02	60	840.8	264.8	54.6	111.9	0.0	19.2	30.6	18.1	1.060	3.750
15:36:00	12/06/02	60	843.2	265.0	54.5	113.5	0.0	28.8	31.2	18.2	1.580	3.750
15:48:00	12/06/02	60	839.7	264.6	54.5	112.6	0.0	28.8	31.2	18.3	1.580	3.750
16:00:00	12/06/02	60	834.0	260.4	55.0	110.5	0.0	19.2	31.6	17.8	1.070	3.750
16:12:00	12/06/02	60	839.5	264.7	54.7	112.1	0.0	19.2	31.6	18.1	1.060	3.750
16:24:00	12/06/02	60	842.6	265.4	54.4	112.2	0.0	19.2	31.6	18.2	1.060	3.750
16:36:00	12/06/02	60	842.8	265.8	54.4	112.5	0.0	24.0	32.1	18.3	1.310	3.750
16:48:00	12/06/02	60	842.6	265.5	54.4	113.2	0.0	24.0	32.1	18.3	1.310	3.750
17:00:00	12/06/02	60	830.3	256.7	54.4	109.8	0.0	24.0	32.6	17.9	1.320	3.750
17:12:00	12/06/02	60	838.9	262.7	54.6	112.2	0.0	24.0	32.6	18.0	1.330	3.750
17:24:00	12/06/02	60	843.0	264.8	54.2	113.5	0.0	24.0	32.6	18.2	1.320	3.750
17:36:00	12/06/02	60	843.8	266.4	53.7	113.9	0.0	24.0	33.1	18.3	1.310	3.750
17:48:00	12/06/02	60	843.2	266.5	52.8	114.3	0.0	24.0	33.1	18.4	1.310	3.750
18:00:00	12/06/02	60	839.5	264.1	52.4	112.9	0.0	9.6	33.3	18.3	0.520	3.750
18:12:00	12/06/02	60	836.5	264.8	52.6	114.1	0.0	9.6	33.3	18.3	0.520	3.750
18:24:00	12/06/02	60	837.3	261.8	53.3	112.7	0.0	9.6	33.3	18.1	0.530	3.750
18:36:00	12/06/02	60	835.2	262.1	53.8	112.3	0.0	4.8	33.4	18.1	0.260	3.750
18:48:00	12/06/02	60	841.8	263.8	53.1	113.7	0.0	4.8	33.4	18.2	0.260	3.750
19:00:00	12/06/02	60	845.0	266.9	52.6	114.5	0.0	4.8	33.5	18.4	0.260	3.750
19:12:00	12/06/02	60	843.2	267.1	52.4	114.1	0.0	4.8	33.5	18.5	0.260	3.750

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	GasP	GasT	GasD	CondR	WtrRate	WtrCum	QGas1av	WGR	Orifice
hh:mm:ss	dd/mm/yy	64th	PSIG	PSIG	°F	INWG	bpd	bpd	bbls	MM/d	b/MM	ins
12/06/02												
19:24:00	12/06/02	60	832.8	263.4	53.2	112.9	0.0	4.8	33.5	18.3	0.260	3.750
19:36:00	12/06/02	60	839.9	264.5	53.5	112.8	0.0	24.0	34.0	18.1	1.320	3.750
19:48:00	12/06/02	60	841.2	265.8	53.6	113.5	0.0	24.0	34.0	18.3	1.310	3.750
20:00:00	12/06/02	60	840.5	266.1	53.8	113.3	0.0	19.2	34.4	18.3	1.050	3.750
20:12:00	12/06/02	60	813.8	249.3	54.8	106.2	0.0	19.2	34.4	17.5	1.100	3.750
20:24:00	12/06/02	60	812.7	246.3	55.9	104.7	0.0	19.2	34.4	17.1	1.120	3.750
20:36:00	12/06/02	60	812.5	250.4	55.7	106.4	0.0	19.2	35.8	17.3	1.110	3.750
20:48:00	12/06/02	60	813.6	249.0	56.4	106.3	0.0	19.2	35.8	17.1	1.120	3.750
21:00:00	12/06/02	60	835.0	264.1	55.1	112.3	0.0	86.4	37.6	18.1	4.850	3.750
21:12:00	12/06/02	60	837.7	264.4	55.1	111.9	0.0	86.4	37.6	18.2	4.750	3.750
21:24:00	12/06/02	60	829.3	258.1	54.8	109.0	0.0	86.4	37.6	18.1	4.780	3.750
21:36:00	12/06/02	60	839.7	265.8	54.0	112.2	0.0	0.0	37.6	18.1	0.000	3.750
21:48:00	12/06/02	60	841.6	266.4	53.5	113.1	0.0	0.0	37.6	18.3	0.000	3.750
22:00:00	12/06/02	60	841.2	267.1	53.4	113.2	0.0	48.0	38.6	18.4	2.620	3.750
22:12:00	12/06/02	0	981.2	2.4	39.9	0.0	0.0	0.0	38.6	0.0		0.000
22:24:00	12/06/02	0	982.2	2.3	47.6	0.0	0.0	0.0	38.6	0.0		0.000
22:36:00	12/06/02	0	983.4	2.4	50.5	0.0	0.0	0.0	38.6	0.0		0.000
22:48:00	12/06/02	0	984.3	2.3	51.6	0.0	0.0	0.0	38.6	0.0		0.000
23:00:00	12/06/02	0	984.1	2.2	52.1	0.0	0.0	0.0	38.6	0.0		0.000
23:12:00	12/06/02	0	984.5	2.1	52.3	0.0	0.0	0.0	38.6	0.0		0.000
23:24:00	12/06/02	0	984.7	1.9	52.4	0.0	0.0	0.0	38.6	0.0		0.000
23:36:00	12/06/02	0	984.9	1.6	52.8	0.0	0.0	0.0	38.6	0.0		0.000
23:48:00	12/06/02	0	984.5	1.6	53.2	0.0	0.0	0.0	38.6	0.0		0.000
13/06/02												
00:00:00	13/06/02	0	985.3	1.6	53.7	0.0	0.0	0.0	38.6	0.0		0.000
00:12:00	13/06/02	0	986.1	2.1	54.3	0.0	0.0	0.0	38.6	0.0		0.000
00:24:00	13/06/02	0	985.9	2.3	54.7	0.0	0.0	0.0	38.6	0.0		0.000
00:36:00	13/06/02	0	986.5	2.4	54.9	0.0	0.0	0.0	38.6	0.0		0.000
00:48:00	13/06/02	0	986.3	2.4	55.0	0.0	0.0	0.0	38.6	0.0		0.000
01:00:00	13/06/02	0	986.9	2.4	54.9	0.0	0.0	0.0	38.6	0.0		0.000

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	GasP	GasT	GasD	CondR	WtrRate	WtrCum	QGas1av	WGR	Orifice
hh:mm:ss	dd/mm/yy	64th	PSIG	PSIG	°F	INWG	bpd	bpd	bbls	MM/d	b/MM	ins
13/06/02												
01:12:00	13/06/02	0	986.5	2.1	54.8	0.0	0.0	0.0	38.6	0.0		0.000
01:24:00	13/06/02	0	986.5	1.6	54.8	0.0	0.0	0.0	38.6	0.0		0.000
01:36:00	13/06/02	0	987.3	2.1	54.8	0.0	0.0	0.0	38.6	0.0		0.000
01:48:00	13/06/02	0	986.9	2.1	54.9	0.0	0.0	0.0	38.6	0.0		0.000
02:00:00	13/06/02	0	987.3	2.3	55.0	0.0	0.0	0.0	38.6	0.0		0.000
02:12:00	13/06/02	0	987.1	2.3	55.0	0.0	0.0	0.0	38.6	0.0		0.000
02:24:00	13/06/02	36	975.3	220.8	47.3	0.0	0.0	0.0	38.6	0.0		0.000
02:36:00	13/06/02	36	969.1	292.4	38.1	0.0	0.0	0.0	38.6	0.0		0.000
02:48:00	13/06/02	32	958.3	302.8	36.9	103.3	0.0	0.0	38.6	1.2	0.000	2.250
03:00:00	13/06/02	32	958.3	303.4	37.2	98.3	0.0	0.0	38.6	6.2	0.000	2.250
03:12:00	13/06/02	32	957.5	302.3	37.4	103.7	0.0	0.0	38.6	6.2	0.000	2.250
03:24:00	13/06/02	32	957.5	302.5	37.6	103.9	0.0	0.0	38.6	6.2	0.000	2.250
03:36:00	13/06/02	32	957.1	304.4	37.8	99.8	0.0	0.0	38.6	6.2	0.000	2.250
03:48:00	13/06/02	32	956.9	303.1	37.8	99.3	0.0	0.0	38.6	6.2	0.000	2.250
04:00:00	13/06/02	32	956.3	304.1	37.8	100.1	0.0	0.0	38.6	6.2	0.000	2.250
04:12:00	13/06/02	32	956.7	304.1	37.9	98.9	0.0	0.0	38.6	6.2	0.000	2.250
04:24:00	13/06/02	32	956.0	304.4	38.0	100.0	0.0	0.0	38.6	6.2	0.000	2.250
04:36:00	13/06/02	32	956.0	303.4	38.0	101.2	0.0	0.0	38.6	6.1	0.000	2.250
04:48:00	13/06/02	32	956.0	303.6	38.3	101.3	0.0	0.0	38.6	6.2	0.000	2.250
05:00:00	13/06/02	32	955.0	303.5	38.3	101.1	0.0	0.0	38.6	6.2	0.000	2.250
05:12:00	13/06/02	32	954.6	303.2	38.4	100.9	0.0	0.0	38.6	6.2	0.000	2.250
05:24:00	13/06/02	32	954.6	302.8	38.4	101.0	0.0	0.0	38.6	6.2	0.000	2.250
05:36:00	13/06/02	32	955.0	302.8	38.4	100.4	0.0	0.0	38.6	6.2	0.000	2.250
05:48:00	13/06/02	32	954.6	302.4	38.5	101.2	0.0	0.0	38.6	6.2	0.000	2.250
06:00:00	13/06/02	32	954.4	302.5	38.5	101.1	0.0	0.0	38.6	6.2	0.000	2.250
06:12:00	13/06/02	44	895.5	192.0	35.1	0.1	0.0	0.0	38.6	0.0		0.000
06:24:00	13/06/02	48	896.8	307.4	44.9	111.2	0.0	0.0	38.6	4.5	0.000	3.000
06:36:00	13/06/02	48	889.6	309.5	45.6	125.6	0.0	0.0	38.6	12.7	0.000	3.000
06:48:00	13/06/02	48	896.6	310.6	45.7	134.8	0.0	0.0	38.6	12.9	0.000	3.000
07:00:00	13/06/02	48	900.0	309.4	46.1	137.3	0.0	38.4	39.4	13.1	2.930	3.000
07:12:00	13/06/02	48	902.3	308.5	46.2	138.3	0.0	38.4	39.4	13.1	2.930	3.000

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	GasP	GasT	GasD	CondR	WtrRate	WtrCum	QGas1av	WGR	Orifice
hh:mm:ss	dd/mm/yy	64th	PSIG	PSIG	°F	INWG	bpd	bpd	bbls	MM/d	b/MM	ins
13/06/02												
07:24:00	13/06/02	48	903.1	309.6	46.3	137.9	0.0	38.4	39.4	13.1	2.930	3.000
07:36:00	13/06/02	48	889.2	307.9	47.4	135.3	0.0	24.0	39.9	13.0	1.850	3.000
07:48:00	13/06/02	48	890.6	308.5	49.4	131.4	0.0	24.0	39.9	12.7	1.890	3.000
08:00:00	13/06/02	48	897.8	309.6	49.5	135.6	0.0	38.4	40.7	12.9	2.980	3.000
08:12:00	13/06/02	48	895.3	308.1	49.8	134.3	0.0	38.4	40.7	12.9	2.970	3.000
08:24:00	13/06/02	48	903.3	309.9	50.0	138.6	0.0	38.4	40.7	13.1	2.940	3.000
08:36:00	13/06/02	48	906.8	309.3	49.7	142.4	0.0	38.4	41.5	13.2	2.900	3.000
08:48:00	13/06/02	48	908.2	312.2	48.6	142.2	0.0	38.4	41.5	13.3	2.880	3.000
09:00:00	13/06/02	48	904.7	311.2	47.8	142.5	0.0	4.8	41.6	13.4	0.360	3.000
09:12:00	13/06/02	48	904.9	311.2	47.2	141.4	0.0	4.8	41.6	13.3	0.360	3.000
09:24:00	13/06/02	48	905.4	310.2	47.7	142.3	0.0	4.8	41.6	13.3	0.360	3.000
09:36:00	13/06/02	48	906.6	310.2	47.6	142.5	0.0	0.0	41.6	13.4	0.000	3.000
09:48:00	13/06/02	48	907.2	309.9	47.3	142.5	0.0	0.0	41.6	13.3	0.000	3.000
10:00:00	13/06/02	48	907.0	310.8	47.4	142.7	0.0	0.0	41.6	13.4	0.000	3.000
10:12:00	13/06/02	48	907.2	311.4	47.2	143.1	0.0	0.0	41.6	13.4	0.000	3.000
10:24:00	13/06/02	48	905.5	310.6	47.0	143.2	0.0	0.0	41.6	13.4	0.000	3.000
10:36:00	13/06/02	54	878.2	217.1	44.3	0.5	0.0	0.0	41.6	0.0		0.000
10:48:00	13/06/02	60	835.8	258.1	49.0	110.2	0.0	0.0	41.6	3.5	0.000	3.750
11:00:00	13/06/02	60	841.6	264.4	49.3	111.9	0.0	67.2	43.0	18.1	3.730	3.750
11:12:00	13/06/02	60	842.0	263.8	49.5	112.3	0.0	38.4	43.8	18.1	2.120	3.750
11:24:00	13/06/02	60	844.0	265.5	49.8	112.9	0.0	38.4	43.8	18.0	2.130	3.750
11:36:00	13/06/02	60	843.8	265.9	49.8	113.2	0.0	38.4	43.8	18.3	2.100	3.750
11:48:00	13/06/02	60	875.1	232.9	47.6	100.5	0.0	38.4	43.8	16.2	2.370	3.750
12:00:00	13/06/02	60	879.0	234.6	47.1	101.3	0.0	0.0	43.8	16.3	0.000	3.750
12:12:00	13/06/02	60	841.2	264.7	49.4	111.3	0.0	0.0	43.8	3.6	0.000	3.750
12:24:00	13/06/02	60	846.5	263.5	50.0	112.1	0.0	0.0	43.8	18.1	0.000	3.750
12:36:00	13/06/02	60	847.9	265.8	50.1	112.7	0.0	24.0	44.3	18.3	1.310	3.750
12:48:00	13/06/02	60	846.7	265.2	50.5	112.5	0.0	24.0	44.3	18.3	1.320	3.750
13:00:00	13/06/02	60	848.5	266.6	50.2	113.0	0.0	0.0	44.3	18.3	0.000	3.750
13:12:00	13/06/02	60	850.4	267.0	49.9	112.0	0.0	0.0	44.3	18.4	0.000	3.750
13:24:00	13/06/02	60	849.7	267.6	49.9	113.3	0.0	0.0	44.3	18.4	0.000	3.750

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	GasP	GasT	GasD	CondR	WtrRate	WtrCum	QGas1av	WGR	Orifice
hh:mm:ss	dd/mm/yy	64th	PSIG	PSIG	°F	INWG	bpd	bpd	bbls	MM/d	b/MM	ins
13/06/02												
13:36:00	13/06/02	60	845.0	266.2	49.8	113.7	0.0	28.8	44.9	18.4	1.560	3.750
13:48:00	13/06/02	60	846.7	264.9	48.7	112.2	0.0	28.8	44.9	18.4	1.570	3.750
14:00:00	13/06/02	60	848.5	266.9	49.2	113.4	0.0	0.0	44.9	18.4	0.000	3.750
14:12:00	13/06/02	60	843.4	265.8	50.1	113.3	0.0	0.0	44.9	18.3	0.000	3.750
14:24:00	13/06/02	60	847.3	264.2	50.6	111.2	0.0	0.0	44.9	18.0	0.000	3.750
14:36:00	13/06/02	60	847.5	267.1	50.6	112.6	0.0	0.0	44.9	18.4	0.000	3.750
14:48:00	13/06/02	60	849.1	265.8	50.5	111.5	0.0	0.0	44.9	18.4	0.000	3.750
15:00:00	13/06/02	60	843.2	266.0	50.5	113.1	0.0	24.0	45.4	18.4	1.310	3.750
15:12:00	13/06/02	60	843.2	262.4	50.6	111.4	0.0	24.0	45.4	18.1	1.320	3.750
15:24:00	13/06/02	60	844.6	265.9	50.5	112.6	0.0	24.0	45.4	18.3	1.310	3.750
15:36:00	13/06/02	60	845.9	265.8	50.4	112.0	0.0	24.0	45.9	18.2	1.320	3.750
15:48:00	13/06/02	60	845.3	265.5	50.3	112.2	0.0	24.0	45.9	18.3	1.310	3.750
16:00:00	13/06/02	60	844.4	265.5	50.7	111.5	0.0	24.0	46.4	18.2	1.320	3.750
16:12:00	13/06/02	60	844.4	266.5	50.7	111.7	0.0	24.0	46.4	18.2	1.320	3.750
16:24:00	13/06/02	60	843.6	266.1	50.5	111.6	0.0	24.0	46.4	18.2	1.320	3.750
16:36:00	13/06/02	60	842.2	265.8	50.4	111.3	0.0	24.0	46.9	18.2	1.320	3.750
16:48:00	13/06/02	60	839.9	263.9	50.5	109.9	0.0	24.0	46.9	18.1	1.330	3.750
17:00:00	13/06/02	60	838.3	263.5	50.6	109.9	0.0	24.0	47.4	18.0	1.330	3.750
17:12:00	13/06/02	60	838.1	262.5	50.6	110.2	0.0	24.0	47.4	17.9	1.340	3.750
17:24:00	13/06/02	60	838.5	263.0	50.6	109.9	0.0	24.0	47.4	17.9	1.340	3.750
17:36:00	13/06/02	0	980.2	2.1	37.5	0.0	0.0	0.0	47.8	3.8	0.000	0.000
17:48:00	13/06/02	0	981.8	2.1	45.9	0.0	0.0	0.0	47.8	0.0		0.000
18:00:00	13/06/02	0	983.2	2.3	49.7	0.0	0.0	0.0	47.8	0.0		0.000
18:12:00	13/06/02	0	983.2	2.3	51.7	0.0	0.0	0.0	47.8	0.0		0.000
18:24:00	13/06/02	0	983.4	2.2	52.7	0.0	0.0	0.0	47.8	0.0		0.000
18:36:00	13/06/02	0	983.6	1.9	53.5	0.0	0.0	0.0	47.8	0.0		0.000
18:48:00	13/06/02	0	984.7	2.4	54.0	0.0	0.0	0.0	47.8	0.0		0.000
19:00:00	13/06/02	0	985.1	2.4	54.4	0.0	0.0	0.0	47.8	0.0		0.000
19:12:00	13/06/02	0	985.1	2.3	54.6	0.0	0.0	0.0	47.8	0.0		0.000
19:24:00	13/06/02	0	986.1	2.8	54.5	0.0	0.0	0.0	47.8	0.0		0.000
19:36:00	13/06/02	0	985.7	2.4	54.3	0.0	0.0	0.0	47.8	0.0		0.000

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	GasP	GasT	GasD	CondR	WtrRate	WtrCum	QGas1av	WGR	Orifice
hh:mm:ss	dd/mm/yy	64th	PSIG	PSIG	°F	INWG	bpd	bpd	bbls	MM/d	b/MM	ins
13/06/02												
19:48:00	13/06/02	0	985.3	2.1	54.2	0.0	0.0	0.0	47.8	0.0		0.000
20:00:00	13/06/02	0	985.3	2.1	54.0	0.0	0.0	0.0	47.8	0.0		0.000
20:12:00	13/06/02	0	985.5	1.9	54.0	0.0	0.0	0.0	47.8	0.0		0.000
20:24:00	13/06/02	0	985.7	1.7	54.1	0.0	0.0	0.0	47.8	0.0		0.000
20:36:00	13/06/02	0	986.3	2.3	54.3	0.0	0.0	0.0	47.8	0.0		0.000
20:48:00	13/06/02	0	986.5	2.1	54.4	0.0	0.0	0.0	47.8	0.0		0.000
21:00:00	13/06/02	0	986.5	2.1	54.5	0.0	0.0	0.0	47.8	0.0		0.000
21:12:00	13/06/02	52	897.6	214.8	33.8	0.7	0.0	0.0	47.8	0.0		0.000
21:24:00	13/06/02	68	740.6	320.4	48.0	0.9	0.0	0.0	47.8	0.0		0.000
21:36:00	13/06/02	84	727.9	311.1	52.1	0.9	0.0	79.9	49.5	0.0		0.000
21:48:00	13/06/02	104	647.6	374.8	57.1	1.3	0.0	79.9	49.5	0.0		0.000
22:00:00	13/06/02	128	631.2	384.9	60.2	84.5	0.0	100.8	51.6	10.3		4.250
22:12:00	13/06/02	128	625.7	379.5	61.5	83.4	0.0	100.8	51.6	25.6	3.930	4.250
22:24:00	13/06/02	128	626.1	382.9	62.4	84.7	0.0	100.8	51.6	25.9	3.890	4.250
22:36:00	13/06/02	128	631.4	387.9	62.9	84.7	0.0	81.6	53.3	25.9	3.160	4.250
22:48:00	13/06/02	128	631.8	388.0	63.9	83.9	0.0	81.6	53.3	26.0	3.130	4.250
23:00:00	13/06/02	128	638.0	395.7	64.1	86.6	0.0	52.8	54.4	26.5	2.010	4.250
23:12:00	13/06/02	128	638.8	393.7	64.4	85.9	0.0	52.8	54.4	26.3	2.010	4.250
23:24:00	13/06/02	128	640.4	397.0	64.6	86.5	0.0	52.8	54.4	26.5	1.990	4.250
23:36:00	13/06/02	128	642.9	398.7	65.0	86.6	0.0	48.0	55.4	26.6	1.810	4.250
23:48:00	13/06/02	128	644.3	400.4	65.2	86.8	0.0	48.0	55.4	26.7	1.800	4.250
14/06/02												
00:00:00	14/06/02	128	645.1	401.9	65.2	86.9	0.0	48.0	56.4	26.8	1.790	4.250
00:12:00	14/06/02	128	647.6	403.1	65.4	87.2	0.0	48.0	56.4	26.9	1.780	4.250
00:24:00	14/06/02	128	648.2	404.4	65.8	87.6	0.0	48.0	56.4	27.0	1.780	4.250
00:36:00	14/06/02	128	647.8	404.4	66.0	87.9	0.0	28.8	57.0	27.0	1.070	4.250
00:48:00	14/06/02	128	648.6	405.4	66.0	88.0	0.0	28.8	57.0	27.0	1.070	4.250
01:00:00	14/06/02	128	649.4	406.2	66.0	88.1	0.0	28.8	57.6	27.1	1.060	4.250
01:12:00	14/06/02	128	649.6	404.4	66.1	87.8	0.0	28.8	57.6	27.1	1.060	4.250
01:24:00	14/06/02	128	650.4	406.5	66.1	88.3	0.0	28.8	57.6	27.1	1.060	4.250

Client	OMV Australia PTY LTD.	**Exal Engineer**	A.Smith/J.Jie
Well No.	Baleen 3	**Location**	Ocean Bounty
Test No.	Completion	**Start Date**	07/06/02

Time	Date	Choke	UcP	GasP	GasT	GasD	CondR	WtrRate	WtrCum	QGas1av	WGR	Orifice
hh:mm:ss	dd/mm/yy	64th	PSIG	PSIG	°F	INWG	bpd	bpd	bbls	MM/d	b/MM	ins
14/06/02												
01:36:00	14/06/02	0	976.9	2.4	45.2	0.0	0.0	28.8	57.6	0.0		0.000
01:48:00	14/06/02	0	979.4	2.4	52.6	0.0	0.0	28.8	57.6	0.0		0.000
02:00:00	14/06/02	0	980.8	2.1	54.1	0.0	0.0	28.8	57.6	0.0		0.000
02:12:00	14/06/02	0	981.8	2.3	54.9	0.0	0.0	28.8	57.6	0.0		0.000
02:24:00	14/06/02	0	982.0	2.4	55.2	0.0	0.0	28.8	57.6	0.0		0.000
02:36:00	14/06/02	0	982.4	2.1	55.2	0.0	0.0	28.8	57.6	0.0		0.000
02:48:00	14/06/02	0	983.0	2.4	55.2	0.0	0.0	28.8	57.6	0.0		0.000
03:00:00	14/06/02	0	983.0	2.3	55.1	0.0	0.0	28.8	57.6	0.0		0.000
03:12:00	14/06/02	0	759.0	2.1	55.4	0.0	0.0	28.8	57.6	0.0		0.000
03:24:00	14/06/02	0	881.0	2.4	55.7	0.0	0.0	28.8	57.6	0.0		0.000
03:36:00	14/06/02	0	983.6	2.4	55.7	0.0	0.0	28.8	57.6	0.0		0.000
03:48:00	14/06/02	0	2.2	2.4	54.5	0.0	0.0	28.8	57.6	0.0		0.000
04:00:00	14/06/02	0	15.3	4.8	55.2	0.0	0.0	28.8	57.6	0.0		0.000
04:12:00	14/06/02	0	4.6	2.4	55.3	0.0	0.0	28.8	57.6	0.0		0.000
04:24:00	14/06/02	0	3.8	2.4	55.3	0.0	0.0	28.8	57.6	0.0		0.000
04:36:00	14/06/02	0	4.0	2.3	55.3	0.0	0.0	28.8	57.6	0.0		0.000
04:48:00	14/06/02	0	4.0	2.3	55.4	0.0	0.0	28.8	57.6	0.0		0.000
05:00:00	14/06/02	0	4.8	2.4	55.4	0.0	0.0	28.8	57.6	0.0		0.000
05:12:00	14/06/02	0	4.4	2.4	55.4	0.0	0.0	28.8	57.6	0.0		0.000
05:24:00	14/06/02	0	4.2	2.7	55.3	0.0	0.0	28.8	57.6	0.0		0.000
05:36:00	14/06/02	0	4.4	2.4	55.2	0.0	0.0	28.8	57.6	0.0		0.000
05:48:00	14/06/02	0	4.8	2.5	55.1	0.0	0.0	28.8	57.6	0.0		0.000
06:00:00	14/06/02	0	5.4	2.5	55.1	0.0	0.0	28.8	57.6	0.0		0.000
06:12:00	14/06/02	0	4.8	2.3	55.0	0.0	0.0	28.8	57.6	0.0		0.000
06:19:00	14/06/02	0	5.4	2.4	55.0	0.1	0.0	28.8	57.6	0.0		0.000

Gas Calculation Data Listing

Client	OMV Australia PTY LTD.
Well No.	Baleen 3
Test No.	Completion
Location	Ocean Bounty
Start Date	07/06/02
Country	Australia
Field	VIC/L21
Job Number	J02/188
Formation	Gurnard
Exal Engineer	A.Smith/J.Jie
Expro Supervisor	F.Beaton
Expro Test Crew	B.Farley.J.Anstono,C.Neville,J.Stewart,S.Gurmin
Client Engineer	A.Ion,M.Mulliner
Perforations	Open Hole

Client OMV Australia PTY LTD. **Exal Engineer** A.Smith/J.Jie

Well No. Baleen 3 **Location** Ocean Bounty

Test No. Completion **Start Date** 07/06/02

Time	Date	Orifice	GasP	GasT	GasD	Co2	H2S	GasSG	GasFb	GasFr	GasY	GasFpb	GasFtb	GasFtf	GasFgr	GasFpv	GasC	GasPf	QGas1av	Gas1Cum
hh:mm:ss	dd/mm/yy	ins	PSIG	°F	INWG	mol%	ppm											PSIA	MM/d	MMcf
10/06/02																				
00:00:00	10/06/02	0.000	2.55	59.09	0.01	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.280	0.00	0.000
00:12:00	10/06/02	0.000	2.37	59.10	0.01	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
00:24:00	10/06/02	0.000	2.00	59.14	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
00:36:00	10/06/02	0.000	2.00	59.18	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
00:48:00	10/06/02	0.000	2.12	59.21	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.850	0.00	0.000
01:00:00	10/06/02	0.000	2.31	59.24	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
01:12:00	10/06/02	0.000	2.06	59.25	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
01:24:00	10/06/02	0.000	2.06	59.24	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
01:36:00	10/06/02	0.000	2.31	59.18	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
01:48:00	10/06/02	0.000	2.37	59.17	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
02:00:00	10/06/02	0.000	2.37	59.02	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
02:12:00	10/06/02	0.000	2.06	58.99	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
02:24:00	10/06/02	0.000	2.43	59.02	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.160	0.00	0.000
02:36:00	10/06/02	0.000	2.55	59.02	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.280	0.00	0.000
02:48:00	10/06/02	0.000	2.61	58.96	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.340	0.00	0.000
03:00:00	10/06/02	0.000	2.31	58.90	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
03:12:00	10/06/02	0.000	2.00	58.97	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
03:24:00	10/06/02	0.000	2.19	59.06	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.920	0.00	0.000
03:36:00	10/06/02	0.000	2.31	59.18	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
03:48:00	10/06/02	0.000	2.00	59.23	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
04:00:00	10/06/02	0.000	2.12	59.33	0.01	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.850	0.00	0.000
04:12:00	10/06/02	0.000	2.19	59.34	0.01	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.920	0.00	0.000
04:24:00	10/06/02	0.000	2.37	59.31	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
04:36:00	10/06/02	0.000	2.31	59.21	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
04:48:00	10/06/02	0.000	2.06	59.14	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
05:00:00	10/06/02	0.000	2.61	59.14	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.340	0.00	0.000
05:12:00	10/06/02	0.000	2.06	58.99	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
05:24:00	10/06/02	0.000	2.00	58.96	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
05:36:00	10/06/02	0.000	2.37	58.92	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
05:48:00	10/06/02	0.000	2.31	58.82	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
06:00:00	10/06/02	0.000	2.31	58.80	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000

Client OMV Australia PTY LTD. **Exal Engineer** A.Smith/J.Jie

Well No. Baleen 3 **Location** Ocean Bounty

Test No. Completion **Start Date** 07/06/02

Time	Date	Orifice	GasP	GasT	GasD	Co2	H2S	GasSG	GasFb	GasFr	GasY	GasFpb	GasFtb	GasFtf	GasFgr	GasFpv	GasC	GasPf	QGas1av	Gas1Cum
hh:mm:ss	dd/mm/yy	ins	PSIG	°F	INWG	mol%	ppm											PSIA	MM/d	MMcf
10/06/02																				
06:12:00	10/06/02	0.000	2.00	58.77	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
06:24:00	10/06/02	0.000	2.06	58.76	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
06:36:00	10/06/02	0.000	1.88	58.79	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.610	0.00	0.000
06:48:00	10/06/02	0.000	1.63	58.82	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.360	0.00	0.000
07:00:00	10/06/02	0.000	2.00	59.01	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
07:12:00	10/06/02	0.000	2.06	59.18	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
07:25:00	10/06/02	0.000	2.31	59.33	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
07:36:00	10/06/02	0.000	2.37	59.64	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
07:48:00	10/06/02	0.000	1.69	60.04	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.420	0.00	0.000
08:00:00	10/06/02	0.000	2.00	60.49	0.01	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
08:12:00	10/06/02	0.000	2.19	61.02	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.920	0.00	0.000
08:25:00	10/06/02	0.000	2.00	61.19	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
08:40:00	10/06/02	0.000	2.37	61.34	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
08:50:00	10/06/02	0.000	2.31	61.40	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
09:00:00	10/06/02	0.000	2.37	61.41	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
09:15:00	10/06/02	0.000	2.37	61.50	0.01	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
09:25:00	10/06/02	0.000	2.37	61.37	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
09:40:00	10/06/02	0.000	2.98	61.02	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.710	0.00	0.000
09:50:00	10/06/02	0.000	2.68	60.67	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.410	0.00	0.000
10:00:00	10/06/02	0.000	2.00	60.36	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
10:15:00	10/06/02	0.000	2.37	60.10	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
10:25:00	10/06/02	0.000	2.06	60.06	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
10:40:00	10/06/02	0.000	1.63	60.15	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.360	0.00	0.000
10:50:00	10/06/02	0.000	1.82	60.38	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.550	0.00	0.000
11:00:00	10/06/02	0.000	1.69	60.77	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.420	0.00	0.000
11:15:00	10/06/02	0.000	2.06	62.50	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
11:25:00	10/06/02	0.000	2.00	64.83	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
11:40:00	10/06/02	0.000	2.00	67.85	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
11:50:00	10/06/02	0.000	2.00	69.06	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
12:00:00	10/06/02	0.000	2.06	69.79	0.08	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
12:15:00	10/06/02	0.000	2.37	70.30	0.01	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000

Client OMV Australia PTY LTD. **Exal Engineer** A.Smith/J.Jie

Well No. Baleen 3 **Location** Ocean Bounty

Test No. Completion **Start Date** 07/06/02

Time	Date	Orifice	GasP	GasT	GasD	Co2	H2S	GasSG	GasFb	GasFr	GasY	GasFpb	GasFtb	GasFtf	GasFgr	GasFpv	GasC	GasPf	QGas1av	Gas1Cum
hh:mm:ss	dd/mm/yy	ins	PSIG	°F	INWG	mol%	ppm											PSIA	MM/d	MMcf
10/06/02																				
12:25:00	10/06/02	0.000	2.37	70.43	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
12:36:00	10/06/02	0.000	2.37	70.24	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
12:48:00	10/06/02	0.000	2.25	69.37	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.980	0.00	0.000
13:00:00	10/06/02	0.000	2.31	68.79	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
13:12:00	10/06/02	0.000	2.31	68.08	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
13:24:00	10/06/02	0.000	2.31	67.54	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
13:36:00	10/06/02	0.000	2.68	68.03	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.410	0.00	0.000
13:48:00	10/06/02	0.000	2.55	68.76	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.280	0.00	0.000
14:00:00	10/06/02	0.000	2.31	69.21	0.00	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
14:12:00	10/06/02	0.000	2.06	68.90	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
14:24:00	10/06/02	0.000	3.41	68.78	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.140	0.00	0.000
14:36:00	10/06/02	0.000	3.35	68.84	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.080	0.00	0.000
14:48:00	10/06/02	0.000	3.35	68.83	0.08	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.080	0.00	0.000
15:00:00	10/06/02	0.000	3.72	68.11	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.450	0.00	0.000
15:12:00	10/06/02	0.000	3.35	67.26	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.080	0.00	0.000
15:24:00	10/06/02	0.000	2.68	66.68	0.08	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.410	0.00	0.000
15:36:00	10/06/02	0.000	2.68	66.22	0.01	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.410	0.00	0.000
15:48:00	10/06/02	0.000	2.92	66.00	0.08	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.650	0.00	0.000
16:00:00	10/06/02	0.000	3.72	65.96	0.08	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.450	0.00	0.000
16:15:00	10/06/02	0.000	2.68	65.42	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.410	0.00	0.000
16:25:00	10/06/02	0.000	2.68	65.10	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.410	0.00	0.000
16:40:00	10/06/02	0.000	2.74	64.64	0.11	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.470	0.00	0.000
16:50:00	10/06/02	0.000	2.80	64.38	0.12	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.530	0.00	0.000
17:00:00	10/06/02	0.000	2.37	64.15	0.11	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
17:15:00	10/06/02	0.000	2.37	63.86	0.11	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
17:25:00	10/06/02	0.000	2.25	63.64	0.11	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.980	0.00	0.000
17:40:00	10/06/02	0.000	1.76	63.39	0.08	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.490	0.00	0.000
17:50:00	10/06/02	0.000	2.37	63.35	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
18:00:00	10/06/02	0.000	2.37	63.31	0.11	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
18:15:00	10/06/02	0.000	2.31	63.25	0.11	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
18:25:00	10/06/02	0.000	2.06	63.10	0.08	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000

Client OMV Australia PTY LTD. **Exal Engineer** A.Smith/J.Jie

Well No. Baleen 3 **Location** Ocean Bounty

Test No. Completion **Start Date** 07/06/02

Time	Date	Orifice	GasP	GasT	GasD	Co2	H2S	GasSG	GasFb	GasFr	GasY	GasFpb	GasFtb	GasFtf	GasFgr	GasFpv	GasC	GasPf	QGas1av	Gas1Cum
hh:mm:ss	dd/mm/yy	ins	PSIG	°F	INWG	mol%	ppm											PSIA	MM/d	MMcf
10/06/02																				
18:40:00	10/06/02	0.000	2.61	63.04	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.340	0.00	0.000
18:50:00	10/06/02	0.000	2.00	62.93	0.11	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
19:00:00	10/06/02	0.000	2.31	62.75	0.08	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
19:15:00	10/06/02	0.000	2.31	62.61	0.11	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
19:25:00	10/06/02	0.000	2.06	62.50	0.11	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
19:40:00	10/06/02	0.000	2.00	62.39	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
19:50:00	10/06/02	0.000	2.12	62.38	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.850	0.00	0.000
20:00:00	10/06/02	0.000	2.74	62.38	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.470	0.00	0.000
20:12:01	10/06/02	0.000	2.98	62.17	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.710	0.00	0.000
20:24:00	10/06/02	0.000	2.74	62.01	0.11	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.470	0.00	0.000
20:36:00	10/06/02	0.000	2.31	61.68	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
20:48:00	10/06/02	0.000	2.31	61.41	0.11	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
21:00:00	10/06/02	0.000	2.31	61.16	0.08	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
21:12:00	10/06/02	0.000	2.31	60.98	0.11	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
21:24:00	10/06/02	0.000	2.37	60.82	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
21:36:00	10/06/02	0.000	2.12	60.77	0.08	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.850	0.00	0.000
21:48:00	10/06/02	0.000	2.31	60.69	0.11	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
22:00:00	10/06/02	0.000	2.37	60.63	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
22:12:00	10/06/02	0.000	2.43	60.54	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.160	0.00	0.000
22:24:00	10/06/02	0.000	2.31	60.39	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
22:36:00	10/06/02	0.000	2.06	60.31	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
22:48:00	10/06/02	0.000	2.12	60.21	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.850	0.00	0.000
23:00:00	10/06/02	0.000	2.19	60.21	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.920	0.00	0.000
23:12:00	10/06/02	0.000	2.55	60.22	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.280	0.00	0.000
23:24:00	10/06/02	0.000	2.25	60.23	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.980	0.00	0.000
23:36:00	10/06/02	0.000	2.31	60.25	0.11	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
23:48:00	10/06/02	0.000	2.31	60.21	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
11/06/02																				
00:00:00	11/06/02	0.000	2.31	60.17	0.08	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
00:12:00	11/06/02	0.000	2.31	60.10	0.11	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000

Client OMV Australia PTY LTD. **Exal Engineer** A.Smith/J.Jie

Well No. Baleen 3 **Location** Ocean Bounty

Test No. Completion **Start Date** 07/06/02

Time	Date	Orifice	GasP	GasT	GasD	Co2	H2S	GasSG	GasFb	GasFr	GasY	GasFpb	GasFtb	GasFtf	GasFgr	GasFpv	GasC	GasPf	QGas1av	Gas1Cum
hh:mm:ss	dd/mm/yy	ins	PSIG	°F	INWG	mol%	ppm											PSIA	MM/d	MMcf
11/06/02																				
00:24:00	11/06/02	0.000	2.37	60.04	0.08	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
00:36:00	11/06/02	0.000	2.06	60.00	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
00:48:00	11/06/02	0.000	2.31	59.83	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
01:00:00	11/06/02	0.000	2.31	59.80	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
01:12:00	11/06/02	0.000	2.06	59.78	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
01:24:00	11/06/02	0.000	2.31	59.79	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
01:36:00	11/06/02	0.000	2.12	59.71	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.850	0.00	0.000
01:48:00	11/06/02	0.000	2.31	59.59	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
02:00:00	11/06/02	0.000	2.31	59.58	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
02:12:00	11/06/02	0.000	2.31	59.57	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
02:24:00	11/06/02	0.000	2.12	59.56	0.08	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.850	0.00	0.000
02:36:00	11/06/02	0.000	2.31	59.51	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
02:48:00	11/06/02	0.000	2.31	59.50	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
03:00:00	11/06/02	0.000	2.06	59.48	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
03:12:00	11/06/02	0.000	2.37	59.42	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
03:24:00	11/06/02	0.000	2.06	59.23	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
03:36:00	11/06/02	0.000	2.06	59.19	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
03:48:00	11/06/02	0.000	2.06	59.12	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
04:00:00	11/06/02	0.000	2.06	59.12	0.08	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
04:12:00	11/06/02	0.000	2.25	59.12	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.980	0.00	0.000
04:24:00	11/06/02	0.000	2.37	59.12	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
04:36:00	11/06/02	0.000	2.00	59.06	0.08	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
04:48:00	11/06/02	0.000	2.00	59.01	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
05:00:00	11/06/02	0.000	2.06	58.98	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
05:12:00	11/06/02	0.000	2.31	58.92	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
05:24:00	11/06/02	0.000	2.06	58.93	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
05:36:00	11/06/02	0.000	1.63	59.01	0.08	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.360	0.00	0.000
05:48:00	11/06/02	0.000	2.06	59.15	0.08	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
06:00:00	11/06/02	0.000	2.31	59.25	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
06:12:00	11/06/02	0.000	2.06	59.35	0.11	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
06:24:00	11/06/02	0.000	2.06	59.45	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000

Client OMV Australia PTY LTD. **Exal Engineer** A.Smith/J.Jie

Well No. Baleen 3 **Location** Ocean Bounty

Test No. Completion **Start Date** 07/06/02

Time	Date	Orifice	GasP	GasT	GasD	Co2	H2S	GasSG	GasFb	GasFr	GasY	GasFpb	GasFtb	GasFtf	GasFgr	GasFpv	GasC	GasPf	QGas1av	Gas1Cum
hh:mm:ss	dd/mm/yy	ins	PSIG	°F	INWG	mol%	ppm											PSIA	MM/d	MMcf
11/06/02																				
06:36:00	11/06/02	0.000	2.00	59.47	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
06:48:00	11/06/02	0.000	2.37	59.52	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
07:00:00	11/06/02	0.000	2.31	59.53	0.01	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
07:12:00	11/06/02	0.000	2.31	59.55	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
07:24:00	11/06/02	0.000	2.25	59.45	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.980	0.00	0.000
07:36:00	11/06/02	0.000	2.25	59.39	0.01	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.980	0.00	0.000
07:48:00	11/06/02	0.000	1.82	59.40	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.550	0.00	0.000
08:00:00	11/06/02	0.000	2.12	59.58	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.850	0.00	0.000
08:12:00	11/06/02	0.000	2.74	59.73	0.08	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.470	0.00	0.000
08:24:00	11/06/02	0.000	2.31	59.77	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
08:36:00	11/06/02	0.000	2.37	59.69	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
08:48:00	11/06/02	0.000	2.31	59.67	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
09:00:00	11/06/02	0.000	2.68	59.69	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.410	0.00	0.000
09:12:00	11/06/02	0.000	2.31	59.67	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
09:24:00	11/06/02	0.000	2.37	59.62	0.01	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
09:36:00	11/06/02	0.000	2.00	59.44	0.01	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
09:48:00	11/06/02	0.000	2.19	59.37	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.920	0.00	0.000
10:00:00	11/06/02	0.000	2.00	59.35	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
10:12:00	11/06/02	0.000	1.88	59.42	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.610	0.00	0.000
10:24:00	11/06/02	0.000	1.63	59.66	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.360	0.00	0.000
10:36:00	11/06/02	0.000	2.00	59.96	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
10:48:00	11/06/02	0.000	2.06	60.33	0.08	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
11:00:00	11/06/02	0.000	1.94	60.77	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.670	0.00	0.000
11:12:00	11/06/02	0.000	2.06	61.97	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
11:24:00	11/06/02	0.000	2.00	64.66	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
11:36:00	11/06/02	0.000	2.06	67.35	0.04	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	0.000
11:48:00	11/06/02	0.000	2.00	69.20	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000
12:00:00	11/06/02	0.000	2.37	70.14	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
12:12:00	11/06/02	0.000	2.31	70.35	0.11	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
12:24:00	11/06/02	0.000	2.37	70.46	0.09	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
12:36:00	11/06/02	0.000	2.00	70.94	0.06	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.730	0.00	0.000

Client OMV Australia PTY LTD. **Exal Engineer** A.Smith/J.Jie

Well No. Baleen 3 **Location** Ocean Bounty

Test No. Completion **Start Date** 07/06/02

Time	Date	Orifice	GasP	GasT	GasD	Co2	H2S	GasSG	GasFb	GasFr	GasY	GasFpb	GasFtb	GasFtf	GasFgr	GasFpv	GasC	GasPf	QGas1av	Gas1Cum
hh:mm:ss	dd/mm/yy	ins	PSIG	°F	INWG	mol%	ppm											PSIA	MM/d	MMcf
11/06/02																				
12:48:00	11/06/02	0.000	1.63	71.20	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.360	0.00	0.000
13:00:00	11/06/02	0.000	1.39	71.65	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.120	0.00	0.000
13:12:00	11/06/02	0.000	2.98	71.71	0.03	0.00	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.710	0.00	0.000
13:24:00	11/06/02	0.000	3.11	69.28	0.06	0.30	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.840	0.00	0.000
13:36:00	11/06/02	0.000	2.68	68.29	0.03	0.30	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.410	0.00	0.000
13:48:00	11/06/02	0.000	2.68	69.15	0.00	0.15	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.410	0.00	0.000
14:00:00	11/06/02	0.000	2.25	69.51	0.00	0.15	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.980	0.00	0.000
14:12:00	11/06/02	0.000	1.63	69.63	0.01	0.15	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.360	0.00	0.000
14:24:00	11/06/02	0.000	2.68	69.80	0.03	0.15	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.410	0.00	0.000
14:36:00	11/06/02	0.000	2.68	70.52	0.01	0.15	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.410	0.00	0.000
14:48:00	11/06/02	0.000	3.29	71.49	0.06	0.15	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.020	0.00	0.000
15:00:00	11/06/02	0.000	2.61	71.01	0.09	0.15	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.340	0.00	0.000
15:12:00	11/06/02	0.000	4.27	70.43	0.06	0.15	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	19.000	0.00	0.000
15:24:00	11/06/02	0.000	3.96	70.08	0.03	0.15	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.690	0.00	0.000
15:36:00	11/06/02	0.000	4.03	69.79	0.00	0.15	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.760	0.00	0.000
15:48:00	11/06/02	0.000	3.66	69.58	0.06	0.15	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.390	0.00	0.000
16:00:00	11/06/02	0.000	3.72	69.76	0.01	0.15	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.450	0.00	0.000
16:12:00	11/06/02	0.000	5.07	69.51	0.08	0.15	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	19.800	0.00	0.000
16:24:00	11/06/02	0.000	2.92	68.66	0.06	0.15	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.650	0.00	0.000
16:36:00	11/06/02	0.000	3.41	67.96	0.06	0.15	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.140	0.00	0.000
16:48:00	11/06/02	0.000	3.11	67.42	0.04	0.15	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.840	0.00	0.000
17:00:00	11/06/02	0.000	3.04	66.95	0.04	0.15	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.770	0.00	0.000
17:12:00	11/06/02	0.000	3.35	66.51	0.06	0.15	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.080	0.00	0.000
17:24:00	11/06/02	0.000	3.47	66.12	0.03	0.15	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.200	0.00	0.000
17:36:00	11/06/02	0.000	3.72	65.68	0.04	0.15	0	0.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.450	0.00	0.000
17:48:00	11/06/02	4.250	366.29	67.26	79.80	0.15	0	0.576	4354.900	1.000	0.997	1.000	1.000	0.993	1.318	1.029	5848.200	381.020	14.64	0.102
18:00:00	11/06/02	4.250	373.29	67.51	82.29	0.10	0	0.576	4354.900	1.000	0.997	1.000	1.000	0.993	1.318	1.030	5849.700	388.020	24.80	0.309
18:12:00	11/06/02	4.250	367.52	67.37	81.75	0.10	0	0.576	4354.900	1.000	0.997	1.000	1.000	0.993	1.318	1.029	5847.900	382.250	24.76	0.516
18:24:00	11/06/02	0.000	272.09	60.01	0.52	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	286.820	0.00	0.550
18:36:00	11/06/02	0.000	277.24	57.45	0.78	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	291.970	0.00	0.550
18:48:00	11/06/02	0.000	288.53	57.02	0.80	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	303.260	0.00	0.550

Client OMV Australia PTY LTD. **Exal Engineer** A.Smith/J.Jie

Well No. Baleen 3 **Location** Ocean Bounty

Test No. Completion **Start Date** 07/06/02

Time	Date	Orifice	GasP	GasT	GasD	Co2	H2S	GasSG	GasFb	GasFr	GasY	GasFpb	GasFtb	GasFtf	GasFgr	GasFpv	GasC	GasPf	QGas1av	Gas1Cum
hh:mm:ss	dd/mm/yy	ins	PSIG	°F	INWG	mol%	ppm											PSIA	MM/d	MMcf
11/06/02																				
19:00:00	11/06/02	3.750	293.44	56.68	121.54	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.003	1.318	1.025	4277.200	308.170	11.89	0.606
19:12:00	11/06/02	3.750	289.33	56.47	120.90	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.003	1.318	1.025	4276.600	304.060	19.82	0.771
19:24:00	11/06/02	3.750	286.51	56.50	119.72	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.003	1.318	1.025	4275.400	301.240	19.54	0.933
19:36:00	11/06/02	3.750	285.22	56.43	119.32	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.003	1.318	1.024	4275.300	299.950	19.41	1.096
19:48:00	11/06/02	3.750	288.65	56.55	120.77	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.003	1.318	1.025	4275.900	303.380	19.37	1.258
20:00:00	11/06/02	3.750	282.27	56.36	118.25	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.004	1.318	1.024	4274.600	297.000	19.48	1.420
20:12:00	11/06/02	3.750	289.20	56.47	122.59	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.003	1.318	1.025	4276.200	303.930	19.67	1.584
20:24:00	11/06/02	3.750	283.38	56.63	119.51	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.003	1.318	1.024	4273.500	298.110	19.53	1.746
20:36:00	11/06/02	3.750	287.61	56.20	120.95	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.004	1.318	1.025	4277.100	302.340	19.62	1.909
20:48:00	11/06/02	3.750	286.38	56.16	120.28	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.004	1.318	1.025	4276.900	301.110	19.24	2.071
21:00:00	11/06/02	3.750	277.24	56.33	116.99	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.004	1.318	1.024	4272.800	291.970	19.22	2.232
21:12:00	11/06/02	3.750	288.90	56.05	122.03	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.004	1.318	1.025	4278.200	303.630	19.62	2.394
21:24:00	11/06/02	3.750	284.91	56.23	120.15	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.004	1.318	1.024	4276.000	299.640	19.70	2.558
21:36:00	11/06/02	3.750	291.96	55.63	122.64	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.004	1.318	1.025	4281.400	306.690	19.93	2.722
21:48:00	11/06/02	3.750	286.14	56.03	120.67	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.004	1.318	1.025	4277.400	300.870	19.32	2.885
22:00:00	11/06/02	3.750	289.63	55.40	122.88	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.004	1.315	1.025	4274.700	304.360	19.86	3.050
22:12:00	11/06/02	3.750	281.97	56.20	118.48	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.004	1.315	1.024	4268.400	296.700	19.21	3.211
22:24:00	11/06/02	3.750	288.90	55.53	121.80	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.004	1.315	1.025	4274.000	303.630	19.66	3.375
22:36:00	11/06/02	3.750	287.61	55.96	121.00	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.004	1.315	1.025	4271.500	302.340	19.47	3.536
22:48:00	11/06/02	3.750	255.66	54.43	0.73	0.10	0	0.578	3172.200	1.004	1.000	1.000	1.000	1.005	1.315	1.022	4304.800	270.390	3.97	3.606
23:00:00	11/06/02	3.750	256.58	53.63	107.18	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.006	1.315	1.023	4272.100	271.310	17.41	3.751
23:12:00	11/06/02	3.750	263.45	52.76	109.88	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.023	4278.700	278.180	17.92	3.900
23:24:00	11/06/02	3.750	263.69	52.37	111.53	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.023	4280.400	278.420	18.05	4.050
23:36:00	11/06/02	3.750	262.89	52.36	110.60	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.023	4280.300	277.620	18.08	4.201
23:48:00	11/06/02	3.750	252.96	52.58	107.80	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.022	4275.400	267.690	17.79	4.349
12/06/02																				
00:00:00	12/06/02	3.750	260.63	52.48	110.17	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.023	4278.800	275.360	17.79	4.496
00:12:00	12/06/02	3.750	260.44	52.24	110.70	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.008	1.315	1.023	4279.800	275.170	18.05	4.646
00:24:00	12/06/02	3.750	255.66	52.91	108.26	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.023	4274.900	270.390	17.39	4.792
00:36:00	12/06/02	3.750	262.77	52.36	111.24	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.023	4280.100	277.500	18.00	4.941

Client OMV Australia PTY LTD. **Exal Engineer** A.Smith/J.Jie

Well No. Baleen 3 **Location** Ocean Bounty

Test No. Completion **Start Date** 07/06/02

Time	Date	Orifice	GasP	GasT	GasD	Co2	H2S	GasSG	GasFb	GasFr	GasY	GasFpb	GasFtb	GasFtf	GasFgr	GasFpv	GasC	GasPf	QGas1av	Gas1Cum
hh:mm:ss	dd/mm/yy	ins	PSIG	°F	INWG	mol%	ppm											PSIA	MM/d	MMcf
12/06/02																				
00:48:00	12/06/02	3.750	250.26	52.08	106.35	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.008	1.315	1.022	4277.000	264.990	17.86	5.090
01:00:00	12/06/02	3.750	258.48	52.96	109.06	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.023	4275.800	273.210	17.52	5.236
01:12:00	12/06/02	3.750	262.34	52.13	111.63	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.008	1.315	1.023	4281.000	277.070	18.03	5.386
01:24:00	12/06/02	3.750	256.33	52.87	108.46	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.023	4275.400	271.060	17.43	5.532
01:36:00	12/06/02	3.750	262.40	52.48	110.75	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.023	4279.500	277.130	17.85	5.680
01:48:00	12/06/02	3.750	257.37	52.39	108.96	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.023	4278.000	272.100	17.92	5.829
02:00:00	12/06/02	3.750	259.40	52.79	109.27	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.023	4277.000	274.130	17.71	5.975
02:12:00	12/06/02	3.750	260.75	52.52	110.04	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.023	4278.700	275.480	18.00	6.125
02:24:00	12/06/02	3.750	257.50	53.17	108.33	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.023	4274.500	272.230	17.40	6.271
02:36:00	12/06/02	3.750	262.83	52.69	110.96	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.023	4278.600	277.560	17.97	6.420
02:48:00	12/06/02	3.750	252.22	53.18	106.80	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.022	4272.400	266.950	17.79	6.568
03:00:00	12/06/02	3.750	262.40	52.84	110.32	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.023	4277.800	277.130	17.89	6.716
03:12:00	12/06/02	3.750	258.36	52.65	108.65	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.023	4277.300	273.090	17.93	6.865
03:24:00	12/06/02	3.750	259.40	52.92	110.03	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.023	4276.200	274.130	17.54	7.011
03:36:00	12/06/02	3.750	260.44	52.66	109.11	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.023	4278.000	275.170	17.92	7.160
03:48:00	12/06/02	3.750	256.70	53.17	108.24	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.023	4274.200	271.430	17.37	7.306
04:00:00	12/06/02	3.750	262.10	52.97	110.68	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.023	4277.000	276.830	17.90	7.455
04:12:00	12/06/02	3.750	253.82	53.07	107.51	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.022	4273.500	268.550	17.78	7.603
04:24:00	12/06/02	3.750	261.12	53.38	110.55	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.006	1.315	1.023	4274.600	275.850	17.49	7.749
04:36:00	12/06/02	3.750	261.36	52.81	111.12	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.007	1.315	1.023	4277.300	276.090	18.03	7.899
04:48:00	12/06/02	3.750	255.04	53.38	108.46	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.006	1.315	1.022	4272.400	269.770	17.41	8.045
05:00:00	12/06/02	3.750	262.71	53.07	111.15	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.007	1.320	1.023	4290.300	277.440	17.98	8.194
05:12:00	12/06/02	3.750	258.79	52.98	109.99	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.007	1.320	1.023	4289.300	273.520	18.11	8.345
05:24:00	12/06/02	3.750	259.64	53.51	109.76	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.006	1.320	1.023	4287.200	274.370	17.54	8.492
05:36:00	12/06/02	3.750	263.75	53.07	111.61	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.007	1.320	1.023	4290.700	278.480	18.08	8.643
05:48:00	12/06/02	3.750	260.75	53.11	109.73	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.007	1.320	1.023	4289.600	275.480	18.09	8.793
06:00:00	12/06/02	3.750	257.68	53.06	108.91	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.007	1.318	1.023	4281.800	272.410	17.78	8.941
06:12:00	12/06/02	3.750	263.08	52.81	110.39	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.007	1.318	1.023	4285.000	277.810	18.01	9.091
06:24:00	12/06/02	3.750	259.03	52.76	110.21	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.007	1.318	1.023	4283.500	273.760	18.11	9.241
06:36:00	12/06/02	3.750	258.72	53.20	109.29	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.007	1.320	1.023	4288.300	273.450	17.70	9.389
06:48:00	12/06/02	3.750	263.08	52.93	112.20	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.007	1.320	1.023	4290.900	277.810	18.05	9.539

Client OMV Australia PTY LTD. **Exal Engineer** A.Smith/J.Jie

Well No. Baleen 3 **Location** Ocean Bounty

Test No. Completion **Start Date** 07/06/02

Time	Date	Orifice	GasP	GasT	GasD	Co2	H2S	GasSG	GasFb	GasFr	GasY	GasFpb	GasFtb	GasFtf	GasFgr	GasFpv	GasC	GasPf	QGas1av	Gas1Cum
hh:mm:ss	dd/mm/yy	ins	PSIG	°F	INWG	mol%	ppm											PSIA	MM/d	MMcf
12/06/02																				
07:00:00	12/06/02	3.750	260.81	52.81	111.12	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.007	1.320	1.023	4290.800	275.540	18.11	9.690
07:12:00	12/06/02	3.750	257.01	53.18	109.42	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.007	1.320	1.022	4287.700	271.740	17.65	9.838
07:24:00	12/06/02	3.750	261.36	53.00	111.76	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.007	1.320	1.023	4290.000	276.090	18.02	9.989
07:36:00	12/06/02	3.750	260.50	53.00	111.92	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.007	1.320	1.023	4289.600	275.230	18.12	10.140
07:48:00	12/06/02	3.750	257.07	53.35	110.73	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.006	1.320	1.022	4286.600	271.800	17.75	10.288
08:00:00	12/06/02	3.750	261.12	53.02	111.69	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.007	1.320	1.023	4289.800	275.850	18.07	10.438
08:12:00	12/06/02	3.750	260.44	52.95	112.09	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.007	1.320	1.023	4289.700	275.170	18.16	10.589
08:24:00	12/06/02	3.750	260.14	53.28	111.32	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.007	1.320	1.023	4288.200	274.870	17.83	10.739
08:36:00	12/06/02	3.750	261.54	53.11	111.66	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.007	1.320	1.023	4289.500	276.270	18.08	10.889
08:48:00	12/06/02	3.750	260.44	53.17	112.18	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.007	1.320	1.023	4288.700	275.170	18.20	11.041
09:00:00	12/06/02	3.750	258.05	53.93	110.89	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.006	1.320	1.022	4284.200	272.780	17.79	11.189
09:12:00	12/06/02	3.750	261.42	53.78	112.66	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.006	1.320	1.023	4286.000	276.150	18.06	11.339
09:24:00	12/06/02	3.750	262.59	53.70	112.09	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.006	1.320	1.023	4287.100	277.320	18.20	11.491
09:36:00	12/06/02	3.750	256.45	54.12	109.47	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.006	1.320	1.022	4282.900	271.180	17.71	11.640
09:48:00	12/06/02	3.750	262.04	53.68	112.28	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.006	1.320	1.023	4286.800	276.770	17.95	11.789
10:00:00	12/06/02	3.750	264.12	53.67	112.53	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.006	1.320	1.023	4287.800	278.850	18.26	11.941
10:12:00	12/06/02	3.750	256.88	54.21	110.01	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.006	1.320	1.022	4282.600	271.610	17.98	12.091
10:24:00	12/06/02	3.750	261.85	54.37	112.01	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.005	1.320	1.023	4283.500	276.580	17.88	12.240
10:36:00	12/06/02	3.750	264.12	54.46	112.36	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.005	1.320	1.023	4284.000	278.850	18.18	12.392
10:48:00	12/06/02	3.750	260.50	54.17	110.96	0.10	0	0.574	3172.200	1.000	0.995	1.000	1.000	1.006	1.320	1.023	4284.100	275.230	18.17	12.543
11:00:00	12/06/02	3.750	261.12	54.54	111.43	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.005	1.315	1.023	4268.800	275.850	17.95	12.692
11:12:00	12/06/02	3.750	263.51	54.66	112.72	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.005	1.315	1.023	4269.000	278.240	18.10	12.842
11:24:00	12/06/02	3.750	263.75	54.65	113.25	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.005	1.315	1.023	4269.100	278.480	18.16	12.994
11:36:00	12/06/02	3.750	256.39	54.92	109.98	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.005	1.315	1.022	4265.300	271.120	17.90	13.144
11:48:00	12/06/02	3.750	262.10	55.15	112.14	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.005	1.315	1.023	4266.200	276.830	17.88	13.293
12:00:00	12/06/02	3.750	263.75	54.82	112.89	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.005	1.315	1.023	4268.300	278.480	18.19	13.444
12:12:00	12/06/02	3.750	260.01	54.74	111.43	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.005	1.315	1.023	4267.400	274.740	18.12	13.595
12:24:00	12/06/02	3.750	260.44	55.03	111.32	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.005	1.315	1.023	4266.200	275.170	17.60	13.742
12:36:00	12/06/02	3.750	263.75	54.61	112.51	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.005	1.315	1.023	4269.400	278.480	18.10	13.893
12:48:00	12/06/02	3.750	262.04	54.48	111.86	0.10	0	0.578	3172.200	1.000	0.995	1.000	1.000	1.005	1.315	1.023	4269.400	276.770	18.17	14.044
13:00:00	12/06/02	3.750	257.74	55.08	110.37	0.10	0	0.577	3172.200	1.000	0.995	1.000	1.000	1.005	1.316	1.022	4268.400	272.470	17.71	14.192

Client OMV Australia PTY LTD. **Exal Engineer** A.Smith/J.Jie

Well No. Baleen 3 **Location** Ocean Bounty

Test No. Completion **Start Date** 07/06/02

Time	Date	Orifice	GasP	GasT	GasD	Co2	H2S	GasSG	GasFb	GasFr	GasY	GasFpb	GasFtb	GasFtf	GasFgr	GasFpv	GasC	GasPf	QGas1av	Gas1Cum
hh:mm:ss	dd/mm/yy	ins	PSIG	°F	INWG	mol%	ppm											PSIA	MM/d	MMcf
12/06/02																				
13:12:00	12/06/02	3.750	262.71	54.98	112.76	0.10	0	0.577	3172.200	1.000	0.995	1.000	1.000	1.005	1.316	1.023	4270.500	277.440	18.09	14.342
13:24:00	12/06/02	3.750	263.69	54.92	112.61	0.10	0	0.577	3172.200	1.000	0.995	1.000	1.000	1.005	1.316	1.023	4271.300	278.420	18.20	14.494
13:36:00	12/06/02	3.750	259.46	54.96	110.44	0.10	0	0.577	3172.200	1.000	0.995	1.000	1.000	1.005	1.316	1.023	4269.700	274.190	18.00	14.644
13:48:00	12/06/02	3.750	261.36	54.65	111.40	0.10	0	0.577	3172.200	1.000	0.995	1.000	1.000	1.005	1.316	1.023	4271.800	276.090	17.82	14.793
14:00:00	12/06/02	3.750	263.02	54.16	112.48	0.10	0	0.577	3172.200	1.000	0.995	1.000	1.000	1.006	1.316	1.023	4274.700	277.750	18.12	14.944
14:12:00	12/06/02	3.750	264.55	54.23	111.22	0.10	0	0.577	3172.200	1.000	0.995	1.000	1.000	1.006	1.316	1.023	4275.200	279.280	18.20	15.095
14:24:00	12/06/02	3.750	257.99	54.63	109.67	0.10	0	0.577	3172.200	1.000	0.995	1.000	1.000	1.005	1.316	1.022	4270.800	272.720	18.00	15.245
14:36:00	12/06/02	3.750	262.83	54.36	112.07	0.10	0	0.577	3172.200	1.000	0.995	1.000	1.000	1.005	1.316	1.023	4273.700	277.560	18.02	15.394
14:48:00	12/06/02	3.750	264.06	54.49	112.81	0.10	0	0.577	3172.200	1.000	0.995	1.000	1.000	1.005	1.316	1.023	4273.500	278.790	18.12	15.545
15:00:00	12/06/02	3.750	264.55	54.37	112.72	0.10	0	0.577	3172.200	1.000	0.995	1.000	1.000	1.005	1.316	1.023	4274.300	279.280	18.25	15.697
15:12:00	12/06/02	3.750	260.01	54.96	110.45	0.10	0	0.577	3172.200	1.000	0.995	1.000	1.000	1.005	1.316	1.023	4270.000	274.740	17.86	15.847
15:24:00	12/06/02	3.750	264.80	54.59	111.91	0.10	0	0.577	3172.200	1.000	0.995	1.000	1.000	1.005	1.316	1.023	4273.500	279.530	18.07	15.997
15:36:00	12/06/02	3.750	265.04	54.54	113.53	0.10	0	0.577	3172.200	1.000	0.995	1.000	1.000	1.005	1.316	1.023	4273.500	279.770	18.19	16.149
15:48:00	12/06/02	3.750	264.55	54.46	112.59	0.10	0	0.577	3172.200	1.000	0.995	1.000	1.000	1.005	1.316	1.023	4273.900	279.280	18.25	16.300
16:00:00	12/06/02	3.750	260.44	54.96	110.53	0.10	0	0.577	3172.200	1.000	0.995	1.000	1.000	1.005	1.316	1.023	4270.100	275.170	17.80	16.450
16:12:00	12/06/02	3.750	264.73	54.69	112.09	0.10	0	0.577	3172.200	1.000	0.995	1.000	1.000	1.005	1.316	1.023	4273.000	279.460	18.10	16.600
16:24:00	12/06/02	3.750	265.35	54.35	112.18	0.10	0	0.577	3172.200	1.000	0.995	1.000	1.000	1.005	1.316	1.023	4274.900	280.080	18.20	16.752
16:36:00	12/06/02	3.750	265.84	54.38	112.45	0.10	0	0.577	3172.200	1.000	0.995	1.000	1.000	1.005	1.316	1.023	4274.800	280.570	18.31	16.904
16:48:00	12/06/02	3.750	265.47	54.36	113.18	0.10	0	0.577	3172.200	1.000	0.995	1.000	1.000	1.005	1.316	1.023	4274.600	280.200	18.27	17.057
17:00:00	12/06/02	3.750	256.70	54.37	109.80	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.005	1.318	1.022	4274.900	271.430	17.93	17.207
17:12:00	12/06/02	3.750	262.71	54.61	112.22	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.005	1.318	1.023	4275.800	277.440	17.99	17.357
17:24:00	12/06/02	3.750	264.80	54.21	113.51	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.006	1.318	1.023	4278.400	279.530	18.17	17.508
17:36:00	12/06/02	3.750	266.45	53.71	113.92	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.006	1.318	1.023	4281.500	281.180	18.34	17.661
17:48:00	12/06/02	3.750	266.51	52.79	114.31	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.007	1.318	1.023	4285.900	281.240	18.37	17.814
18:00:00	12/06/02	3.750	264.12	52.44	112.90	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.007	1.318	1.023	4286.800	278.850	18.29	17.967
18:12:00	12/06/02	3.750	264.80	52.57	114.11	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.007	1.318	1.023	4286.200	279.530	18.30	18.120
18:24:00	12/06/02	3.750	261.79	53.30	112.71	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.007	1.318	1.023	4281.600	276.520	18.15	18.271
18:36:00	12/06/02	3.750	262.10	53.79	112.25	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.006	1.318	1.023	4279.500	276.830	18.14	18.422
18:48:00	12/06/02	3.750	263.75	53.11	113.67	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.007	1.318	1.023	4283.200	278.480	18.20	18.574
19:00:00	12/06/02	3.750	266.88	52.58	114.47	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.007	1.318	1.023	4287.000	281.610	18.44	18.727
19:12:00	12/06/02	3.750	267.06	52.36	114.10	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.007	1.318	1.024	4288.200	281.790	18.47	18.881

Client OMV Australia PTY LTD. **Exal Engineer** A.Smith/J.Jie

Well No. Baleen 3 **Location** Ocean Bounty

Test No. Completion **Start Date** 07/06/02

Time	Date	Orifice	GasP	GasT	GasD	Co2	H2S	GasSG	GasFb	GasFr	GasY	GasFpb	GasFtb	GasFtf	GasFgr	GasFpv	GasC	GasPf	QGas1av	Gas1Cum
hh:mm:ss	dd/mm/yy	ins	PSIG	°F	INWG	mol%	ppm											PSIA	MM/d	MMcf
12/06/02																				
19:24:00	12/06/02	3.750	263.45	53.22	112.87	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.007	1.318	1.023	4282.700	278.180	18.30	19.034
19:36:00	12/06/02	3.750	264.49	53.46	112.84	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.006	1.318	1.023	4282.000	279.220	18.13	19.185
19:48:00	12/06/02	3.750	265.78	53.58	113.49	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.006	1.318	1.023	4281.900	280.510	18.32	19.337
20:00:00	12/06/02	3.750	266.15	53.83	113.28	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.006	1.318	1.023	4280.900	280.880	18.34	19.490
20:12:00	12/06/02	3.750	249.34	54.80	106.15	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.005	1.318	1.022	4270.400	264.070	17.52	19.638
20:24:00	12/06/02	3.750	246.33	55.93	104.68	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.004	1.318	1.021	4264.100	261.060	17.09	19.779
20:36:00	12/06/02	3.750	250.38	55.69	106.40	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.004	1.318	1.022	4266.600	265.110	17.29	19.923
20:48:00	12/06/02	3.750	248.97	56.41	106.25	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.003	1.318	1.021	4262.600	263.700	17.15	20.066
21:00:00	12/06/02	3.750	264.12	55.15	112.35	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.005	1.318	1.023	4273.800	278.850	18.09	20.214
21:12:00	12/06/02	3.750	264.37	55.12	111.92	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.005	1.318	1.023	4274.200	279.100	18.19	20.366
21:24:00	12/06/02	3.750	258.05	54.80	109.01	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.005	1.318	1.022	4273.600	272.780	18.07	20.516
21:36:00	12/06/02	3.750	265.78	54.01	112.17	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.006	1.318	1.023	4280.100	280.510	18.14	20.666
21:48:00	12/06/02	3.750	266.45	53.55	113.07	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.006	1.318	1.023	4282.400	281.180	18.28	20.818
22:00:00	12/06/02	3.750	267.06	53.35	113.20	0.10	0	0.576	3172.200	1.000	0.995	1.000	1.000	1.006	1.318	1.023	4283.600	281.790	18.37	20.971
22:12:00	12/06/02	0.000	2.37	39.88	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	21.010
22:24:00	12/06/02	0.000	2.31	47.56	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	21.010
22:36:00	12/06/02	0.000	2.37	50.46	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	21.010
22:48:00	12/06/02	0.000	2.31	51.56	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	21.010
23:00:00	12/06/02	0.000	2.19	52.08	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.920	0.00	21.010
23:12:00	12/06/02	0.000	2.06	52.27	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	21.010
23:24:00	12/06/02	0.000	1.88	52.39	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.610	0.00	21.010
23:36:00	12/06/02	0.000	1.63	52.75	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.360	0.00	21.010
23:48:00	12/06/02	0.000	1.63	53.19	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.360	0.00	21.010
13/06/02																				
00:00:00	13/06/02	0.000	1.63	53.72	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.360	0.00	21.010
00:12:00	13/06/02	0.000	2.12	54.31	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.850	0.00	21.010
00:24:00	13/06/02	0.000	2.31	54.68	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	21.010
00:36:00	13/06/02	0.000	2.37	54.87	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	21.010
00:48:00	13/06/02	0.000	2.37	55.02	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	21.010
01:00:00	13/06/02	0.000	2.37	54.92	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	21.010

Client OMV Australia PTY LTD. **Exal Engineer** A.Smith/J.Jie

Well No. Baleen 3 **Location** Ocean Bounty

Test No. Completion **Start Date** 07/06/02

Time	Date	Orifice	GasP	GasT	GasD	Co2	H2S	GasSG	GasFb	GasFr	GasY	GasFpb	GasFtb	GasFtf	GasFgr	GasFpv	GasC	GasPf	QGas1av	Gas1Cum
hh:mm:ss	dd/mm/yy	ins	PSIG	°F	INWG	mol%	ppm											PSIA	MM/d	MMcf
13/06/02																				
01:12:00	13/06/02	0.000	2.06	54.81	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	21.010
01:24:00	13/06/02	0.000	1.63	54.80	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.360	0.00	21.010
01:36:00	13/06/02	0.000	2.06	54.77	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	21.010
01:48:00	13/06/02	0.000	2.06	54.86	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	21.010
02:00:00	13/06/02	0.000	2.31	55.03	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	21.010
02:12:00	13/06/02	0.000	2.31	55.02	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	21.010
02:24:00	13/06/02	0.000	220.76	47.27	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	235.490	0.00	21.010
02:36:00	13/06/02	0.000	292.39	38.11	0.00	0.10	0	0.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	307.120	0.00	21.010
02:48:00	13/06/02	2.250	302.82	36.92	103.32	0.10	0	0.578	1039.500	1.000	0.996	1.000	1.000	1.023	1.315	1.030	1435.200	317.550	1.21	21.027
03:00:00	13/06/02	2.250	303.43	37.17	98.28	0.10	0	0.578	1039.500	1.000	0.996	1.000	1.000	1.023	1.315	1.030	1435.100	318.160	6.20	21.078
03:12:00	13/06/02	2.250	302.33	37.43	103.65	0.10	0	0.578	1039.500	1.000	0.996	1.000	1.000	1.022	1.315	1.030	1434.200	317.060	6.18	21.130
03:24:00	13/06/02	2.250	302.51	37.61	103.91	0.10	0	0.578	1039.500	1.000	0.996	1.000	1.000	1.022	1.315	1.030	1433.900	317.240	6.19	21.182
03:36:00	13/06/02	2.250	304.41	37.76	99.82	0.10	0	0.578	1039.500	1.000	0.996	1.000	1.000	1.022	1.315	1.030	1434.200	319.140	6.18	21.233
03:48:00	13/06/02	2.250	303.13	37.76	99.25	0.10	0	0.578	1039.500	1.000	0.996	1.000	1.000	1.022	1.315	1.030	1434.000	317.860	6.18	21.285
04:00:00	13/06/02	2.250	304.05	37.84	100.13	0.10	0	0.578	1039.500	1.000	0.996	1.000	1.000	1.022	1.315	1.030	1434.000	318.780	6.18	21.336
04:12:00	13/06/02	2.250	304.11	37.93	98.91	0.10	0	0.578	1039.500	1.000	0.996	1.000	1.000	1.022	1.315	1.030	1433.900	318.840	6.18	21.388
04:24:00	13/06/02	2.250	304.41	37.96	99.98	0.10	0	0.578	1039.500	1.000	0.996	1.000	1.000	1.022	1.315	1.030	1433.800	319.140	6.17	21.439
04:36:00	13/06/02	2.250	303.43	38.03	101.19	0.10	0	0.578	1039.500	1.000	0.996	1.000	1.000	1.022	1.315	1.030	1433.500	318.160	6.14	21.491
04:48:00	13/06/02	2.250	303.56	38.26	101.34	0.10	0	0.578	1039.500	1.000	0.996	1.000	1.000	1.022	1.315	1.030	1433.100	318.290	6.17	21.542
05:00:00	13/06/02	2.250	303.49	38.29	101.13	0.10	0	0.578	1039.500	1.000	0.996	1.000	1.000	1.022	1.315	1.030	1433.100	318.220	6.16	21.593
05:12:00	13/06/02	2.250	303.19	38.36	100.87	0.10	0	0.578	1039.500	1.000	0.996	1.000	1.000	1.021	1.315	1.030	1432.900	317.920	6.16	21.645
05:24:00	13/06/02	2.250	302.82	38.41	100.98	0.10	0	0.578	1039.500	1.000	0.996	1.000	1.000	1.021	1.315	1.030	1432.700	317.550	6.17	21.696
05:36:00	13/06/02	2.250	302.76	38.36	100.44	0.10	0	0.578	1039.500	1.000	0.996	1.000	1.000	1.021	1.315	1.030	1432.900	317.490	6.17	21.748
05:48:00	13/06/02	2.250	302.45	38.53	101.15	0.10	0	0.578	1039.500	1.000	0.996	1.000	1.000	1.021	1.315	1.029	1432.500	317.180	6.16	21.799
06:00:00	13/06/02	2.250	302.51	38.53	101.10	0.10	0	0.578	1039.500	1.000	0.996	1.000	1.000	1.021	1.315	1.029	1432.500	317.240	6.16	21.850
06:12:00	13/06/02	0.000	192.00	35.12	0.06	0.10	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	206.730	0.00	21.850
06:24:00	13/06/02	3.000	307.42	44.90	111.24	0.10	0	0.578	1907.900	1.000	0.996	1.000	1.000	1.015	1.315	1.029	2609.200	322.150	4.53	21.899
06:36:00	13/06/02	3.000	309.50	45.60	125.64	0.10	0	0.578	1907.900	1.000	0.995	1.000	1.000	1.014	1.315	1.029	2606.200	324.230	12.67	21.987
06:48:00	13/06/02	3.000	310.55	45.73	134.80	0.10	0	0.578	1907.900	1.000	0.995	1.000	1.000	1.014	1.315	1.029	2605.100	325.280	12.94	22.094
07:00:00	13/06/02	3.000	309.38	46.08	137.26	0.10	0	0.586	1907.900	1.000	0.995	1.000	1.000	1.014	1.306	1.029	2587.500	324.110	13.10	22.203
07:12:00	13/06/02	3.000	308.46	46.23	138.35	0.10	0	0.586	1907.900	1.000	0.995	1.000	1.000	1.014	1.306	1.029	2586.700	323.190	13.11	22.313

Client OMV Australia PTY LTD. **Exal Engineer** A.Smith/J.Jie

Well No. Baleen 3 **Location** Ocean Bounty

Test No. Completion **Start Date** 07/06/02

Time	Date	Orifice	GasP	GasT	GasD	Co2	H2S	GasSG	GasFb	GasFr	GasY	GasFpb	GasFtb	GasFtf	GasFgr	GasFpv	GasC	GasPf	QGas1av	Gas1Cum
hh:mm:ss	dd/mm/yy	ins	PSIG	°F	INWG	mol%	ppm											PSIA	MM/d	MMcf
13/06/02																				
07:24:00	13/06/02	3.000	309.57	46.30	137.94	0.10	0	0.586	1907.900	1.000	0.995	1.000	1.000	1.013	1.306	1.029	2586.800	324.300	13.13	22.422
07:36:00	13/06/02	3.000	307.85	47.44	135.28	0.10	0	0.586	1907.900	1.000	0.995	1.000	1.000	1.012	1.306	1.029	2583.100	322.580	12.98	22.531
07:48:00	13/06/02	3.000	308.46	49.39	131.45	0.10	0	0.586	1907.900	1.000	0.995	1.000	1.000	1.010	1.306	1.029	2577.700	323.190	12.69	22.637
08:00:00	13/06/02	3.000	309.57	49.45	135.56	0.10	0	0.586	1907.900	1.000	0.995	1.000	1.000	1.010	1.306	1.029	2577.500	324.300	12.87	22.744
08:12:00	13/06/02	3.000	308.09	49.79	134.28	0.10	0	0.586	1907.900	1.000	0.995	1.000	1.000	1.010	1.306	1.028	2576.100	322.820	12.94	22.852
08:24:00	13/06/02	3.000	309.87	49.99	138.56	0.10	0	0.586	1907.900	1.000	0.995	1.000	1.000	1.010	1.306	1.029	2575.600	324.600	13.06	22.960
08:36:00	13/06/02	3.000	309.26	49.67	142.38	0.10	0	0.586	1907.900	1.000	0.995	1.000	1.000	1.010	1.306	1.029	2576.000	323.990	13.24	23.070
08:48:00	13/06/02	3.000	312.20	48.57	142.15	0.10	0	0.586	1907.900	1.000	0.995	1.000	1.000	1.011	1.306	1.029	2580.200	326.930	13.32	23.182
09:00:00	13/06/02	3.000	311.16	47.83	142.47	0.10	0	0.586	1907.900	1.000	0.995	1.000	1.000	1.012	1.306	1.029	2582.100	325.890	13.36	23.293
09:12:00	13/06/02	3.000	311.22	47.19	141.36	0.10	0	0.586	1907.900	1.000	0.995	1.000	1.000	1.013	1.306	1.029	2584.200	325.950	13.33	23.404
09:24:00	13/06/02	3.000	310.24	47.71	142.34	0.10	0	0.586	1907.900	1.000	0.995	1.000	1.000	1.012	1.306	1.029	2582.300	324.970	13.34	23.515
09:36:00	13/06/02	3.000	310.18	47.61	142.46	0.10	0	0.586	1907.900	1.000	0.995	1.000	1.000	1.012	1.306	1.029	2582.500	324.910	13.36	23.626
09:48:00	13/06/02	3.000	309.87	47.33	142.51	0.10	0	0.586	1907.900	1.000	0.995	1.000	1.000	1.012	1.306	1.029	2583.300	324.600	13.32	23.737
10:00:00	13/06/02	3.000	310.79	47.43	142.65	0.10	0	0.586	1907.900	1.000	0.995	1.000	1.000	1.012	1.306	1.029	2583.200	325.520	13.37	23.848
10:12:00	13/06/02	3.000	311.41	47.18	143.05	0.10	0	0.586	1907.900	1.000	0.995	1.000	1.000	1.013	1.306	1.029	2584.100	326.140	13.39	23.960
10:24:00	13/06/02	3.000	310.61	47.02	143.19	0.10	0	0.586	1907.900	1.000	0.995	1.000	1.000	1.013	1.306	1.029	2584.400	325.340	13.40	24.072
10:36:00	13/06/02	0.000	217.08	44.27	0.47	0.10	0	0.586	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	231.810	0.00	24.127
10:48:00	13/06/02	3.750	258.11	48.96	110.24	0.10	0	0.586	3172.200	1.000	0.995	1.000	1.000	1.011	1.306	1.024	4267.800	272.840	3.48	24.176
11:00:00	13/06/02	3.750	264.43	49.27	111.94	0.10	0	0.586	3172.200	1.000	0.995	1.000	1.000	1.010	1.306	1.025	4268.800	279.160	18.09	24.326
11:12:00	13/06/02	3.750	263.75	49.51	112.30	0.10	0	0.586	3172.200	1.000	0.995	1.000	1.000	1.010	1.306	1.024	4267.200	278.480	18.08	24.477
11:24:00	13/06/02	3.750	265.47	49.81	112.87	0.10	0	0.586	3172.200	1.000	0.995	1.000	1.000	1.010	1.306	1.025	4266.500	280.200	18.04	24.628
11:36:00	13/06/02	3.750	265.90	49.78	113.23	0.10	0	0.586	3172.200	1.000	0.995	1.000	1.000	1.010	1.306	1.025	4266.700	280.630	18.28	24.780
11:48:00	13/06/02	3.750	232.90	47.57	100.54	0.10	0	0.586	3172.200	1.000	0.995	1.000	1.000	1.012	1.306	1.022	4264.900	247.630	16.21	24.917
12:00:00	13/06/02	3.750	234.56	47.07	101.26	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.013	1.313	1.022	4288.300	249.290	16.30	25.053
12:12:00	13/06/02	3.750	264.73	49.38	111.30	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.010	1.313	1.024	4288.700	279.460	3.64	25.102
12:24:00	13/06/02	3.750	263.51	50.05	112.12	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.010	1.313	1.024	4284.700	278.240	18.07	25.253
12:36:00	13/06/02	3.750	265.84	50.10	112.66	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.010	1.313	1.024	4285.400	280.570	18.30	25.405
12:48:00	13/06/02	3.750	265.22	50.51	112.54	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.009	1.313	1.024	4283.100	279.950	18.25	25.557
13:00:00	13/06/02	3.750	266.57	50.22	113.02	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.010	1.313	1.024	4285.000	281.300	18.30	25.710
13:12:00	13/06/02	3.750	267.00	49.86	111.97	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.010	1.313	1.024	4287.200	281.730	18.38	25.862
13:24:00	13/06/02	3.750	267.62	49.89	113.26	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.010	1.313	1.024	4287.100	282.350	18.41	26.016

Client OMV Australia PTY LTD. **Exal Engineer** A.Smith/J.Jie

Well No. Baleen 3 **Location** Ocean Bounty

Test No. Completion **Start Date** 07/06/02

Time	Date	Orifice	GasP	GasT	GasD	Co2	H2S	GasSG	GasFb	GasFr	GasY	GasFpb	GasFtb	GasFtf	GasFgr	GasFpv	GasC	GasPf	QGas1av	Gas1Cum
hh:mm:ss	dd/mm/yy	ins	PSIG	°F	INWG	mol%	ppm											PSIA	MM/d	MMcf
13/06/02																				
13:36:00	13/06/02	3.750	266.21	49.81	113.67	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.010	1.313	1.024	4286.800	280.940	18.41	26.169
13:48:00	13/06/02	3.750	264.86	48.73	112.15	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.011	1.313	1.024	4291.800	279.590	18.36	26.322
14:00:00	13/06/02	3.750	266.88	49.18	113.41	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.011	1.313	1.024	4290.200	281.610	18.36	26.475
14:12:00	13/06/02	3.750	265.84	50.15	113.25	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.010	1.313	1.024	4285.000	280.570	18.25	26.627
14:24:00	13/06/02	3.750	264.18	50.57	111.15	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.009	1.313	1.024	4282.700	278.910	18.03	26.778
14:36:00	13/06/02	3.750	267.06	50.65	112.58	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.009	1.313	1.024	4283.200	281.790	18.35	26.931
14:48:00	13/06/02	3.750	265.78	50.55	111.45	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.009	1.313	1.024	4283.400	280.510	18.41	27.083
15:00:00	13/06/02	3.750	266.02	50.47	113.12	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.009	1.313	1.024	4283.600	280.750	18.36	27.236
15:12:00	13/06/02	3.750	262.40	50.63	111.42	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.009	1.313	1.024	4281.500	277.130	18.15	27.388
15:24:00	13/06/02	3.750	265.90	50.48	112.63	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.009	1.313	1.024	4283.600	280.630	18.27	27.540
15:36:00	13/06/02	3.750	265.84	50.41	112.04	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.009	1.313	1.024	4284.000	280.570	18.23	27.692
15:48:00	13/06/02	3.750	265.47	50.27	112.17	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.009	1.313	1.024	4284.500	280.200	18.25	27.844
16:00:00	13/06/02	3.750	265.53	50.69	111.48	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.009	1.313	1.024	4282.600	280.260	18.18	27.995
16:12:00	13/06/02	3.750	266.51	50.67	111.68	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.009	1.313	1.024	4283.100	281.240	18.22	28.147
16:24:00	13/06/02	3.750	266.15	50.46	111.61	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.009	1.313	1.024	4284.000	280.880	18.24	28.299
16:36:00	13/06/02	3.750	265.84	50.43	111.25	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.009	1.313	1.024	4284.000	280.570	18.17	28.451
16:48:00	13/06/02	3.750	263.88	50.46	109.90	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.009	1.313	1.024	4283.300	278.610	18.09	28.601
17:00:00	13/06/02	3.750	263.51	50.57	109.93	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.009	1.313	1.024	4282.600	278.240	17.96	28.751
17:12:00	13/06/02	3.750	262.53	50.64	110.22	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.009	1.313	1.024	4281.800	277.260	17.92	28.901
17:24:00	13/06/02	3.750	262.96	50.60	109.88	0.10	0	0.580	3172.200	1.000	0.995	1.000	1.000	1.009	1.313	1.024	4282.200	277.690	17.92	29.051
17:36:00	13/06/02	0.000	2.06	37.46	0.00	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	3.81	29.126
17:48:00	13/06/02	0.000	2.12	45.88	0.00	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.850	0.00	29.126
18:00:00	13/06/02	0.000	2.25	49.71	0.00	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.980	0.00	29.126
18:12:00	13/06/02	0.000	2.31	51.67	0.00	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	29.126
18:24:00	13/06/02	0.000	2.19	52.74	0.00	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.920	0.00	29.126
18:36:00	13/06/02	0.000	1.94	53.46	0.00	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.670	0.00	29.126
18:48:00	13/06/02	0.000	2.37	54.04	0.00	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	29.126
19:00:00	13/06/02	0.000	2.37	54.38	0.00	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	29.126
19:12:00	13/06/02	0.000	2.31	54.60	0.00	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	29.126
19:24:00	13/06/02	0.000	2.80	54.55	0.00	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.530	0.00	29.126
19:36:00	13/06/02	0.000	2.43	54.31	0.00	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.160	0.00	29.126

Client OMV Australia PTY LTD. **Exal Engineer** A.Smith/J.Jie

Well No. Baleen 3 **Location** Ocean Bounty

Test No. Completion **Start Date** 07/06/02

Time	Date	Orifice	GasP	GasT	GasD	Co2	H2S	GasSG	GasFb	GasFr	GasY	GasFpb	GasFtb	GasFtf	GasFgr	GasFpv	GasC	GasPf	QGas1av	Gas1Cum
hh:mm:ss	dd/mm/yy	ins	PSIG	°F	INWG	mol%	ppm											PSIA	MM/d	MMcf
13/06/02																				
19:48:00	13/06/02	0.000	2.06	54.17	0.00	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	29.126
20:00:00	13/06/02	0.000	2.06	54.03	0.00	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	29.126
20:12:00	13/06/02	0.000	1.94	54.01	0.00	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.670	0.00	29.126
20:24:00	13/06/02	0.000	1.69	54.08	0.00	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.420	0.00	29.126
20:36:00	13/06/02	0.000	2.25	54.31	0.00	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.980	0.00	29.126
20:48:00	13/06/02	0.000	2.12	54.41	0.00	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.850	0.00	29.126
21:00:00	13/06/02	0.000	2.06	54.53	0.00	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	29.126
21:12:00	13/06/02	0.000	214.75	33.75	0.65	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	229.480	0.00	29.126
21:24:00	13/06/02	0.000	320.36	48.05	0.86	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	335.090	0.00	29.126
21:36:00	13/06/02	0.000	311.10	52.15	0.94	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	325.830	0.00	29.126
21:48:00	13/06/02	0.000	374.82	57.13	1.29	0.10	0	0.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	389.550	0.00	29.126
22:00:00	13/06/02	4.250	384.94	60.20	84.45	0.15	0	0.578	4354.900	1.000	0.997	1.000	1.000	1.000	1.315	1.032	5895.500	399.670	10.36	29.162
22:12:00	13/06/02	4.250	379.48	61.51	83.43	0.15	0	0.578	4354.900	1.000	0.997	1.000	1.000	0.999	1.315	1.031	5883.800	394.210	25.65	29.377
22:24:00	13/06/02	4.250	382.92	62.37	84.74	0.15	0	0.578	4354.900	1.000	0.997	1.000	1.000	0.998	1.315	1.032	5879.400	397.650	25.94	29.593
22:36:00	13/06/02	4.250	387.94	62.92	84.73	0.15	0	0.578	4354.900	1.000	0.997	1.000	1.000	0.997	1.315	1.032	5878.200	402.670	25.85	29.808
22:48:00	13/06/02	4.250	388.00	63.86	83.91	0.15	0	0.578	4354.900	1.000	0.997	1.000	1.000	0.996	1.315	1.032	5871.900	402.730	26.03	30.025
23:00:00	13/06/02	4.250	395.67	64.07	86.59	0.15	0	0.578	4354.900	1.000	0.997	1.000	1.000	0.996	1.315	1.032	5873.700	410.400	26.50	30.244
23:12:00	13/06/02	4.250	393.71	64.38	85.87	0.15	0	0.578	4354.900	1.000	0.997	1.000	1.000	0.996	1.315	1.032	5870.800	408.440	26.33	30.464
23:24:00	13/06/02	4.250	397.02	64.64	86.51	0.15	0	0.578	4354.900	1.000	0.997	1.000	1.000	0.996	1.315	1.032	5870.600	411.750	26.49	30.685
23:36:00	13/06/02	4.250	398.74	64.99	86.62	0.15	0	0.578	4354.900	1.000	0.997	1.000	1.000	0.995	1.315	1.032	5869.000	413.470	26.58	30.906
23:48:00	13/06/02	4.250	400.45	65.20	86.80	0.15	0	0.578	4354.900	1.000	0.997	1.000	1.000	0.995	1.315	1.032	5868.400	415.180	26.74	31.129
14/06/02																				
00:00:00	14/06/02	4.250	401.87	65.24	86.88	0.15	0	0.578	4354.900	1.000	0.997	1.000	1.000	0.995	1.315	1.032	5868.800	416.600	26.80	31.352
00:12:00	14/06/02	4.250	403.15	65.38	87.16	0.15	0	0.578	4354.900	1.000	0.997	1.000	1.000	0.995	1.315	1.033	5868.400	417.880	26.90	31.576
00:24:00	14/06/02	4.250	404.44	65.76	87.56	0.15	0	0.578	4354.900	1.000	0.997	1.000	1.000	0.994	1.315	1.033	5866.300	419.170	26.98	31.801
00:36:00	14/06/02	4.250	404.44	65.95	87.90	0.15	0	0.578	4354.900	1.000	0.997	1.000	1.000	0.994	1.315	1.032	5865.000	419.170	26.96	32.026
00:48:00	14/06/02	4.250	405.42	66.02	87.98	0.15	0	0.578	4354.900	1.000	0.997	1.000	1.000	0.994	1.315	1.033	5864.900	420.150	26.97	32.250
01:00:00	14/06/02	4.250	406.16	66.01	88.11	0.15	0	0.578	4354.900	1.000	0.997	1.000	1.000	0.994	1.315	1.033	5865.400	420.890	27.14	32.476
01:12:00	14/06/02	4.250	404.44	66.08	87.83	0.15	0	0.578	4354.900	1.000	0.997	1.000	1.000	0.994	1.315	1.032	5864.100	419.170	27.07	32.702
01:24:00	14/06/02	4.250	406.53	66.07	88.26	0.15	0	0.578	4354.900	1.000	0.997	1.000	1.000	0.994	1.315	1.033	5865.100	421.260	27.10	32.928

Client OMV Australia PTY LTD. **Exal Engineer** A.Smith/J.Jie

Well No. Baleen 3 **Location** Ocean Bounty

Test No. Completion **Start Date** 07/06/02

Time	Date	Orifice	GasP	GasT	GasD	Co2	H2S	GasSG	GasFb	GasFr	GasY	GasFpb	GasFtb	GasFtf	GasFgr	GasFpv	GasC	GasPf	QGas1av	Gas1Cum
hh:mm:ss	dd/mm/yy	ins	PSIG	°F	INWG	mol%	ppm											PSIA	MM/d	MMcf
14/06/02																				
01:36:00	14/06/02	0.000	2.37	45.16	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	33.022
01:48:00	14/06/02	0.000	2.37	52.65	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	33.022
02:00:00	14/06/02	0.000	2.12	54.11	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.850	0.00	33.022
02:12:00	14/06/02	0.000	2.31	54.85	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	33.022
02:24:00	14/06/02	0.000	2.37	55.17	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	33.022
02:36:00	14/06/02	0.000	2.06	55.19	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	33.022
02:48:00	14/06/02	0.000	2.37	55.18	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	33.022
03:00:00	14/06/02	0.000	2.31	55.12	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	33.022
03:12:00	14/06/02	0.000	2.06	55.40	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.790	0.00	33.022
03:24:00	14/06/02	0.000	2.37	55.69	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	33.022
03:36:00	14/06/02	0.000	2.37	55.68	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	33.022
03:48:00	14/06/02	0.000	2.37	54.48	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	33.022
04:00:00	14/06/02	0.000	4.82	55.24	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	19.550	0.00	33.022
04:12:00	14/06/02	0.000	2.43	55.27	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.160	0.00	33.022
04:24:00	14/06/02	0.000	2.43	55.29	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.160	0.00	33.022
04:36:00	14/06/02	0.000	2.31	55.33	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	33.022
04:48:00	14/06/02	0.000	2.31	55.42	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	33.022
05:00:00	14/06/02	0.000	2.37	55.42	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	33.022
05:12:00	14/06/02	0.000	2.43	55.41	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.160	0.00	33.022
05:24:00	14/06/02	0.000	2.68	55.30	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.410	0.00	33.022
05:36:00	14/06/02	0.000	2.43	55.17	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.160	0.00	33.022
05:48:00	14/06/02	0.000	2.55	55.08	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.280	0.00	0.000
06:00:00	14/06/02	0.000	2.49	55.07	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.220	0.00	0.000
06:12:00	14/06/02	0.000	2.31	54.95	0.00	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.040	0.00	0.000
06:24:00	14/06/02	0.000	2.37	54.88	0.11	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.100	0.00	0.000
06:33:00	14/06/02	0.000	2.19	54.87	0.14	0.15	0	0.578	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.920	0.00	0.000

CASED HOLE SERVICES

THE EXPRO GROUP

QAD 065

SAMPLE LISTING

Rev. 4 Issued Oct 1994

Client:	OMV Australia	**Well No:**	Baleen 3	**Field:**	VIC/L21
Test:	1	**Rig:**	Ocean Bounty	**Job No:**	

Sample No.	Test No.	Time	Date	Nature	Sampling Points	Container Description/ Sample Volume	Cylinder No.	Comments
1-1	1	02:00	12/06/2002	Water	Water Line	500ml Pyrex		pH=8.0 Cl=112000 Pf/mf=0/0.5
1-2	1	17:00	12/0/2002	Sep Gas	Sep Gas Line	20 Litre Luxfer	1278-C1-F	Clean up flow period.
1-3	1	04:15	13/06/2002	Sep Gas	Sep Gas Line	20 Litre Luxfer	2750-C1-F	Low flow period 6MMscf/d
1-4	1	04:30	13/06/2003	Sep Gas	Sep Gas Line	20 Litre Luxfer	1851-C1-F	Low flow period 6MMscf/d

CASED HOLE SERVICES

THE EXPRO GROUP

ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	**Well No:**	Baleen 3
Test:	1	**Rig:**	Ocean Bounty
Field:	VIC/L21	**Perforations:**	1549m MDRT - 904m MDRT
Sample No:	1-1	**Cylinder No:**	

IDENTIFICATION

Sample Nature	:	Water
Date of Sampling	:	12/0 /2002
Time Start/Finish	:	02:00 - 02:00
Sampling Point	:	Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	:	500ml Pyrex
Sample Volume	:	400
H2S Concentration	:	
Liquid Gravity	:	

COMMENTS **Sample Taken By:** EXAL

Data and Flowrates (averaged) entered manually from 3rd Party systems.

Production Conditions supplied by Well Test Company EXPRO

CASED HOLE SERVICES

THE EXPRO GROUP

SURFACE SAMPLE

QAD 066
Rev. 6 Issued Feb 2000

Client:	OMV Australia	**Well No:**	Baleen 3
Test:	1	**Rig:**	Ocean Bounty
Field:	VIC/L21	**Perforations:**	1549m MDRT - 904m MDRT
Sample No:	1-2	**Cylinder No:**	1278-C1-F

IDENTIFICATION

Sample Nature	:	Sep Gas
Date of Sampling	:	12/0 /2002
Time Start/Finish	:	17:00 - 17:20
Sampling Point	:	Sep Gas Line

FINAL TRANSPORTATION CONDITIONS

Sample Cylinder Type	:	20 Litre Luxfer
Volume of Cylinder	:	20 Ltr
Sample Volume	:	20 Ltr
Volume H2O removed for Gas Cap	:	N/A
Volume H20 left in Cylinder	:	
Final Pressure	:	256.7
Final Temperature	:	54.4

SAMPLING CONDITIONS

Sampling Pressure	:	256.7
Sampling Temperature	:	54.4
Sampling Method	:	n/a
Sampling Duration	:	20min(s)

COUPLED WITH SAMPLES

Sample No.	in Cylinder No.

PRODUCTION CONDITIONS DURING SAMPLING

Bottom Hole Pressure	:	
Bottom Hole Temperature	:	
at Depth	:	
Date/Time	:	
Wellhead Pressure	:	830.3
Wellhead Temperature	:	83.4
Separator Pressure	:	256.7
Separator Temperature	:	54.4
Carbon Dioxide (CO2)	:	0
Hydrogen Sulphide (H2S)	:	0
Base Sediment & Water (BS&W)	:	0

STANDARD CONDITIONS

Pressure	:	psiA
Temperature	:	degF

Gas prodn. rate st std. conditions		:	17.931
Gas gravity (Air = 1)		:	0.576
Gas line pressure		:	256.7
Gas line temperature		:	54.4
Fpv (supercompressibility factor)		:	1.0223
Fb (basic orifice factor)		:	3172.165
Stock tank oil prodn. rate at std. conditions		:	0
Corrected by (shrinkage tester or tank)		:	N/A
Shrinkage factor used		:	0
Separator oil production rate		:	0
Meter factor used		:	0
Oil gravity at 60 degF		:	0
Oil line temperature		:	0
Water production rate at separator conds.		:	24 BBL/D
Separator gas oil ratio	(GOR)	:	0
Separator water gas ratio	(WGR)	:	1.32
Stock tank gas oil ratio	(GOR)	:	0
Stock tank condensate gas ratio	(CGR)	:	0
Well producing through choke size		:	60
Time elapsed since stabilisation		:	8 HRS
Well Testing Company		:	EXPRO

COMMENTS

Sample taken by: EXAL

Production Conditions supplied by Well Test Company EXPRO

CASED HOLE SERVICES

THE EXPRO GROUP

SURFACE SAMPLE

QAD 066
Rev. 6 Issued Feb 2000

Client:	OMV Australia	**Well No:**	Baleen 3
Test:	1	**Rig:**	Ocean Bounty
Field:	VIC/L21	**Perforations:**	1549m MDRT - 904m MDRT
Sample No:	1-3	**Cylinder No:**	2750-C1-F

IDENTIFICATION

Sample Nature	:	Sep Gas
Date of Sampling	:	13/06/2002
Time Start/Finish	:	04:15-04:30
Sampling Point	:	Sep Gas Line

FINAL TRANSPORTATION CONDITIONS

Sample Cylinder Type	:	20 Litre Luxfer
Volume of Cylinder	:	20 Ltr
Sample Volume	:	20 Ltr
Volume H2O removed for Gas Cap	:	N/A
Volume H20 left in Cylinder	:	
Final Pressure	:	304.4
Final Temperature	:	38

SAMPLING CONDITIONS

Sampling Pressure	:	304.5
Sampling Temperature	:	37.8
Sampling Method	:	n/a
Sampling Duration	:	15min(s)

COUPLED WITH SAMPLES

Sample No.	in Cylinder No.

PRODUCTION CONDITIONS DURING SAMPLING

Bottom Hole Pressure	:		Gas prodn. rate st std. conditions		: 6.177
Bottom Hole Temperature	:		Gas gravity (Air = 1)		: .578
at Depth	:		Gas line pressure		: 304.5
Date/Time	:		Gas line temperature		: 37.8
			Fpv (supercompressibility factor)		: 1.0298
Wellhead Pressure	:	956	Fb (basic orifice factor)		: 1039.494
Wellhead Temperature	:	70	Stock tank oil prodn. rate at std. conditions		: 0
			Corrected by (shrinkage tester or tank)		: N/A
Separator Pressure	:	304.5	Shrinkage factor used		: 0
Separator Temperature	:	37.8	Separator oil production rate		: 0
			Meter factor used		: 0
Carbon Dioxide (CO2)	:	0.1	Oil gravity at 60 degF		: 0
Hydrogen Sulphide (H2S)	:	0	Oil line temperature		: 0
Base Sediment			Water production rate at separator conds.		: 0 BBL/D
& Water (BS&W)	:	0	Separator gas oil ratio	(GOR)	: 0
			Separator water gas ratio	(WGR)	: 0
STANDARD CONDITIONS			Stock tank gas oil ratio	(GOR)	: 0
Pressure	:	psiA	Stock tank condensate gas ratio	(CGR)	: 0
Temperature	:	degF	Well producing through choke size		: 32/64
			Time elapsed since stabilisation		: 1 HRS
			Well Testing Company		: EXPRO

COMMENTS

Sample taken by: EXAL

Production Conditions supplied by Well Test Company EXPRO

CASED HOLE SERVICES

THE EXPRO GROUP

SURFACE SAMPLE

QAD 066
Rev. 6 Issued Feb 2000

Client:	OMV Australia	**Well No:**	Baleen 3
Test:	1	**Rig:**	Ocean Bounty
Field:	VIC/L21	**Perforations:**	1549m MDRT - 904m MDRT
Sample No:	1-4	**Cylinder No:**	1851-C1-F

IDENTIFICATION

Sample Nature	:	Sep Gas
Date of Sampling	:	13/06/2002
Time Start/Finish	:	04:30-04:45
Sampling Point	:	Sep Gas Line

FINAL TRANSPORTATION CONDITIONS

Sample Cylinder Type	:	20 Litre Luxfer
Volume of Cylinder	:	20 Ltr
Sample Volume	:	20 Ltr
Volume H2O removed for Gas Cap	:	N/A
Volume H20 left in Cylinder	:	
Final Pressure	:	303.3
Final Temperature	:	38.1

SAMPLING CONDITIONS

Sampling Pressure	:	304.4
Sampling Temperature	:	38
Sampling Method	:	n/a
Sampling Duration	:	15min(s)

COUPLED WITH SAMPLES

Sample No.	in Cylinder No.

PRODUCTION CONDITIONS DURING SAMPLING

Bottom Hole Pressure	:		Gas prodn. rate st std. conditions		: 6.177
Bottom Hole Temperature	:		Gas gravity (Air = 1)		: .578
at Depth	:		Gas line pressure		: 304.4
Date/Time	:		Gas line temperature		: 38
			Fpv (supercompressibility factor)		: 1.0296
Wellhead Pressure	:	955.6	Fb (basic orifice factor)		: 1039.494
Wellhead Temperature	:	70.4	Stock tank oil prodn. rate at std. conditions		: 0
			Corrected by (shrinkage tester or tank)		: N/A
Separator Pressure	:	304.4	Shrinkage factor used		: 0
Separator Temperature	:	38	Separator oil production rate		: 0
			Meter factor used		: 0
Carbon Dioxide (CO2)	:	0.1	Oil gravity at 60 degF		: 0
Hydrogen Sulphide (H2S)	:	0	Oil line temperature		: 0
Base Sediment			Water production rate at separator conds.		: 0 BBL/D
& Water (BS&W)	:	0	Separator gas oil ratio	(GOR)	: 0
			Separator water gas ratio	(WGR)	: 0
STANDARD CONDITIONS			Stock tank gas oil ratio	(GOR)	: 0
Pressure	:	psiA	Stock tank condensate gas ratio	(CGR)	: 0
Temperature	:	degF	Well producing through choke size		: 32/64
			Time elapsed since stabilisation		: 1 HRS
			Well Testing Company		: EXPRO

COMMENTS

Sample taken by: EXAL

Production Conditions supplied by Well Test Company EXPRO

THE EXPRO GROUP

DISK INFORMATION

Client :	OMV Australia Pty Ltd	**Well No. :**	Baleen 3
Test :	Completion Flow Back	**Date :**	7/6/2002

Baleen3 events.TXT

A diary of events. In particular all information on events which affect the readings of the transducers is recorded, eg opening of valves, power shut-downs, bleeding of lines, etc.

Baleen3 data.txt

Contains the raw data readings taken from sensors on the choke manifold, annulus and separator during the main throughout the complete test period.

Column 1	**:**	Date	dd/mm/yy
Column 2	**:**	Time	hr:min:sec
Column 3	**:**	Choke size	/64th
Column 4	**:**	Orifice Size	inches
Column 5	**:**	Gas SG	
Column 6	**:**	Oil SG	
Column 7	**:**	Up Choke Pressure	psia
Column 8	**:**	Up Choke Temperature	degF
Column 9	**:**	Down Choke Pressure	psig
Column 10	**:**	Down Choke Temperature	degF
Column 11	**:**	Annulus Pressure	psig
Column 12	**:**	Gas Line Pressure	psig
Column 13	**:**	Gas Line Temperature	degF
Column 14	**:**	Gas Line Differential	inHg
Column 15	**:**	Oil Line Temperature	degF
Column 16		Heater Pressure	psig
Column 17		Heater Temperature	degF
Column 18		Condensate Rate	b/d
Column 19		Condensate Cumulative	bbls
Column 20		Water Rate	b/d
Column 21		Water Cumulative	bbls
Column 22		Gas Rate	MMcf/d
Column 23		Gas Cumulative	MMcf/d
Column 24		CGR	bbls/MMcf
Column 25		WGR	bbls/MMcf
Column 26		Sand Impact Rate	I/s
Column 27		Sand Rate	gm/h

THE EXPRO GROUP

DISK INFORMATION

Client :	OMV Australia Pty Ltd	**Well No. :**	Baleen-3
Test :	Completion	**Date :**	06-14/06/2002

File Name	Start Date/time	End Date/time	Description	Compression Type
BALEEN3_EVENTS.TXT			Sequence of events	0
FINALRAWDATA.TXT			All upstream / downstream choke data and annulus	2

Compression Type

0 = None
1 = Self Extracting
2 = Zip (PKUNZIP program supplied. YES/NO)

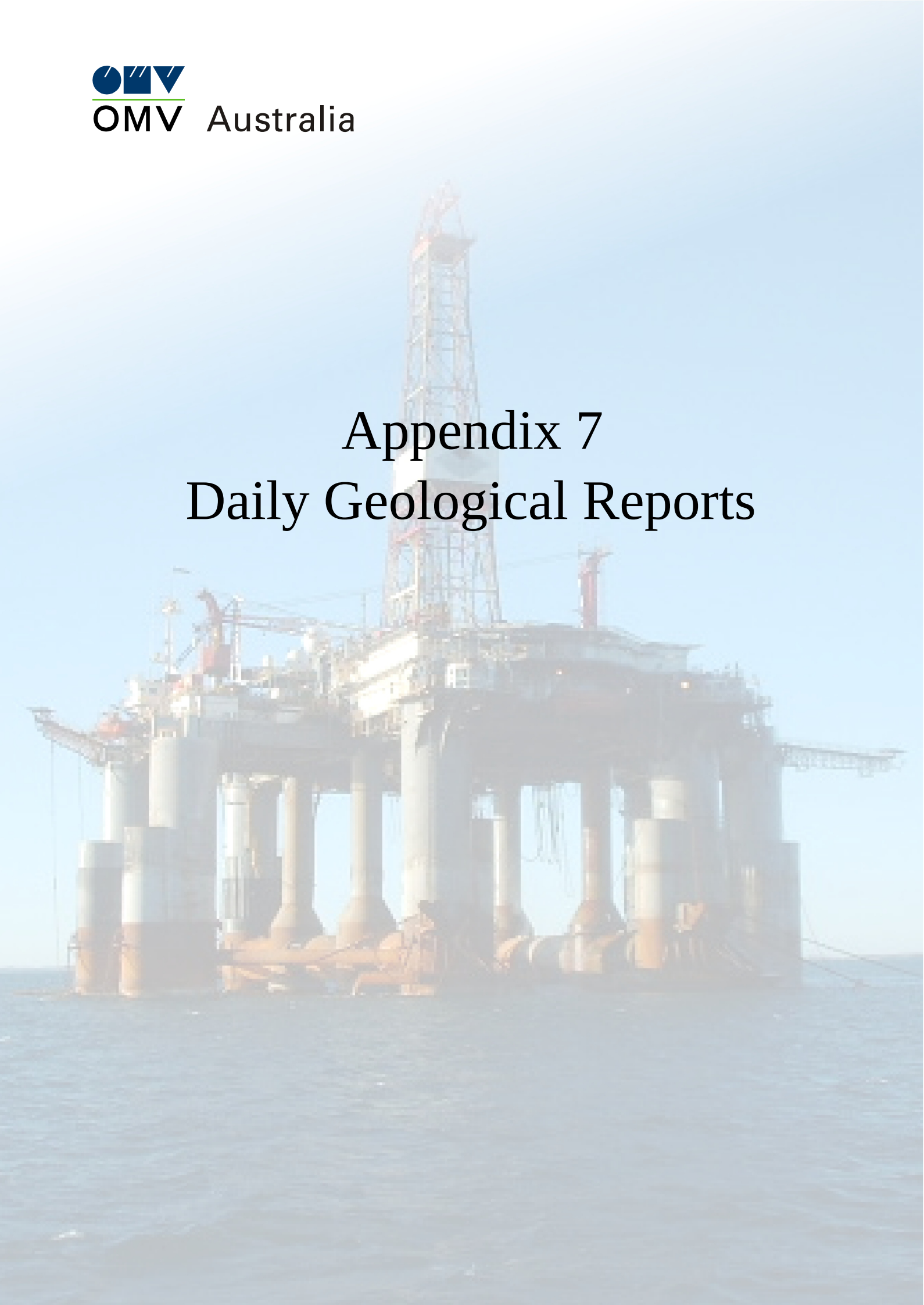
Self Extracting Tip

Type @ DOS prompt **A:\ARCHIVE C: -d**
where
A:\ARCHIVE is name of .EXE file on floppy in A: drive
C: is destination drive
-d restores all sub-directories automatically.

ZIP Tip

Type @ DOS prompt **C:**
where
C: is destination drive
Type @ DOS prompt **CD**
where
CD moves system to root directory
Type @ DOS prompt **A:\PKUNZIP -d A:\ARCHIVE**
where
A:\PKUNZIP is name of .EXE file on floppy in A: drive
-d restores all sub-directories automatically
A:\ARCHIVE is name of .ZIP file on floppy in A: drive.

OMV Australia



Appendix 7
Daily Geological Reports

CONFIDENTIAL

Date:	27 May 2002	**Rig:**	Ocean Bounty
Report Number:	1	**Bit Diameter:**	N/A
Report Period:	00:00 - 24:00 Hours	**Last Casing:**	13-3/8" @ 327.4 m MDRT
Spud Date:	24 May 2002 14:00 Hours	**FIT:**	N/A
Days From Spud:	3.4	**Mud Weight:**	N/A
Depth @ 2400 Hrs:	336.0 m MDRT 334.9 m TVDRT	**ECD:** **Mud Type:**	N/A N/A
Lag Depth:	N/A	**Mud Chlorides:**	N/A
Last Depth:	336.0 m MDRT	**Est. Pore Pressure:**	N/A
Progress:	0 m	**DXC:**	Normal
Water Depth:	52.5 m	**Last Survey:**	314.0 m MDRT
RT:	25.0 m	**Deviation:**	Inc. 9.93º Az. 237.30º

OPERATIONS SUMMARY

24 HOUR SUMMARY: Unable to pressure test Xmas tree. Recovered tree and replaced metal end cap seal and installed new VX ring on wellhead. Re-ran Xmas tree and attempted to retest – test failed. Pumped dye and established no leak on VX ring. Leak occurring past end cap seal and entering well bore. Recovered running tool and prepared to run BOP's.

NEXT 24 HOURS: Run and test BOP's. Make up and run into hole with 12.25" BHA.

CURRENT OPERATION @ 06:00 HRS (28/05/2002): Running BOP's.

GEOLOGICAL SUMMARY

LITHOLOGY
No new lithology during previous 24 hours.

WELLSITE GEOLOGISTS
Peter Boothby / Ross Tolliday

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CONFIDENTIAL

Date:	28 May 2002	**Rig:**	Ocean Bounty
Report Number:	2	**Bit Diameter:**	12.25 "
Report Period:	00:00 - 24:00 Hours	**Last Casing:**	13-3/8" @ 327.4 m MDRT
Spud Date:	24 May 2002 14:00 Hours	**FIT:**	N/A
Days From Spud:	4.4	**Mud Weight:**	1.06 SG
Depth @ 2400 Hrs:	336.0 m MDRT 334.9 m TVDRT	**ECD:**	N/A
		Mud Type:	KCL/PHPA/Glycol
Lag Depth:	N/A	**Mud Chlorides:**	37,000 mg/l
Last Depth:	336.0 m MDRT	**Est. Pore Pressure:**	1.03 SG
Progress:	0 m	**DXC:**	Normal
Water Depth:	52.5 m	**Last Survey:**	314.0 m MDRT
RT:	25.0 m	**Deviation:**	Inc. 9.93 º Az. 237.30 º

OPERATIONS SUMMARY

24 HOUR SUMMARY: Ran BOP's, tested Xmas tree connector and casing to 2,500 psi. Tested 10-3/4" pipe rams and BOP connector to 5,000 psi. Ran wear bushing. Made up 9-5/8" Hanger assembly. Commenced picking up 12-1/4" drilling assembly.

NEXT 24 HOURS: Complete picking up bit BHA and drill string, run into hole and drill out cement and shoe track. Clean out rat hole and drill 3m of new formation. Displace hole to KCL/PHPA/Glycol mud system and conduct Leak Off Test. Drill ahead in 12-1/4" deviated hole to landing point for 9-5/8" casing.

CURRENT OPERATION @ 07:00 HRS (29/05/2002): Drilling out cement and shoe track.

GEOLOGICAL SUMMARY

LITHOLOGY
No new lithology

MWD
LWD sensor point distances from bit;

EWR 11.83m
DGR 14.75m
DM 18.33m

Sampling rate is set at 10 seconds. The 8" motor has a 1.15 degree bend on the bent housing.

WELLSITE GEOLOGISTS
Peter Boothby Ross Tolliday

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CONFIDENTIAL

Date:	29 May 2002	**Rig:**	Ocean Bounty
Report Number:	3	**Bit Diameter:**	12.25 "
Report Period:	00:00 - 24:00 Hours	**Last Casing:**	13-3/8" @ 327.4 m MDRT
Spud Date:	24 May 2002 14:00 Hours	**FIT:**	1.74 SG EMW @ 327.0m MDRT
Days From Spud:	5.4	**Mud Weight:**	1.06 SG
Depth @ 2400 Hrs:	542.0 m MDRT 519.6 m TVDRT	**ECD:**	1.08 SG
		Mud Type:	KCL/PHPA/Glycol
Lag Depth:	540.0 m MDRT	**Mud Chlorides:**	36,000 mg/l
Last Depth:	336.0 m MDRT	**Est. Pore Pressure:**	1.03 SG
Progress:	206.0 m	**DXC:**	Normal
Water Depth:	52.5 m	**Last Survey:**	522.7m MDRT
RT:	25.0 m	**Deviation:**	Inc. 38.6º Az. 235.9º

OPERATIONS SUMMARY

24 HOUR SUMMARY: Picked up 12 1/4" BHA. Ran in hole and drilled cement and shoe track. Drilled 336 to 339m MDRT. Conducted FIT to 1.74sg EMW. Drilled ahead to 458m MDRT. Pulled out of hole to change BHA due to insufficient build angle being achieved. Changed bent sub from 1.15 Deg to 1.5 Deg. Ran back into hole and drilled ahead from 458m to 542m MDRT.

NEXT 24 HOURS: Drill 12.25" deviated hole to planned section TD of approximately 897m MDRT (682m TVDRT). Circulate hole clean and pull out of hole to run 9-5/8" casing.

CURRENT OPERATION @ 07:00 HRS (30/05/2002) : Drilling ahead in 12.25" directional hole at 680m (611.6 m TVDRT).

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 336 to 380 m MDRT
ROP (Range): 30 to 250 m/hr
Av. ROP: 90 m/hr

FOSSILIFEROUS CALCARENITE

FOSSILIFEROUS CALCARENITE: (100%) white to very light grey, light greenish grey, very fine to medium grained calcite, 15-25% fossil fragments (shell, bryozoa, echinoid spicules) and coral debris, trace forams, 5-10% calcilutitic in part, recrystallised in part, trace light to dark green glauconite, trace pyrite, fair to good inferred inter-granular porosity. Grades to Calcarenite.

INTERVAL: 380 to 420 m MDRT
ROP (Range): 30 to 250 m/hr
Av. ROP: 85 m/hr

FOSSILIFEROUS CALCARENITE and minor interbedded ARGILLACEOUS CALCILUTITE

FOSSILIFEROUS CALCARENITE: (60-100%) white to very light grey, light greenish grey, yellowish to pinkish grey, soft to firm, very fine to fine grained calcite, calcisilt in part, 15-25% fossil fragments (shell, bryozoa, echinoid spicules) and coral debris, trace forams, 5% calcilutitic in part, recrystallised in part, trace light to dark green glauconite, trace pyrite, fair inferred intergranular porosity.

ARGILLACEOUS CALCILUTITE: (0-40%) very light to light greenish grey, light to medium olive grey, very soft to soft, dispersive in part, 15-30% argillaceous matrix, trace to 5% calcisilt. trace glauconite silt.

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INTERVAL: 420 to 542 m MDRT
ROP (Range): 7 to 143 m/hr
Av. ROP: 44 m/hr

Interbedded ARGILLACEOUS CALCILUTITE and CALCARENITE Grading to CALCISILTITE

ARGILLACEOUS CALCILUTITE: (30 - 70%) light greenish grey to medium olive grey, medium dark grey in parts, amorphous, soft, dispersive in part, 20-30% argillaceous matrix, 10-20% calcisilt. trace glauconite silt. Grades to Argllaceous Calcisiltite in parts.

CALCARENITE: (20 - 70%) very light to light grey, yellowish grey, firm to hard, silty to fine grained calcite, trace -5% fossil fragments (shell, bryozoa, echinoid spicules), 5-10% calcilutite matrix, recrystallised in part, trace light to dark green glauconite, nil to trace pyrite. Grades to Calcisiltite in parts.

CALCISILTITE: (0 - 20%) light grey, light to medium yellowish grey, firm to hard, trace -5% fossil fragments (shell, bryozoa, echinoid spicules), trace to 10% fine grained calcite, 5-10% calcilutite matrix, recrystallised in part, trace light to dark green glauconite, nil to trace pyrite.

HYDROCARBON FLUORESCENCE
No Shows

GAS SUMMARY

Background Gas

INTERVAL	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
336 - 542	0	0	0	0	0	0	0

CALCIMETRY

Interval (m MDRT)	Calcite Range (%)	Dolomite Range (%)
336 - 390	62 - 76 %	0 %
390 - 420	76 - 84 %	0 %
420 - 542	50 - 78 %	0 - 2 %

Calcimetry is being conducted on all 5m samples where ROP permits.

FORMATION PRESSURE ESTIMATION
Formation pressure is interpreted to be normal.

SAMPLE QUALITY

Sampling is being conducted at 5m intervals where ROP's permit and at 10m intervals where the rates of penetration are high. Sample quality is generally very good.

MUDLOGGING EQUIPMENT / PERSONNEL
All equipment functioning normally with the exception of the Torque sensor which is currently inoperative. A replacement Torque sensor will be arriving on the rig on this Fridays helicopter.

MWD
LWD sensor point distances from bit;

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EWR 11.83m
DGR 14.75m
DM 18.33m

Sampling rate is set at 10 seconds. The 8" motor has a 1.15 degree bend on the bent housing.

WELLSITE GEOLOGISTS
Peter Boothby Ross Tolliday

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Date:	30 May 2002	**Rig:**	Ocean Bounty
Report Number:	4	**Bit Diameter:**	12.25 "
Report Period:	00:00 - 24:00 Hours	**Last Casing:**	13-3/8" @ 327.4 m MDRT
Spud Date:	24 May 2002 14:00 Hours	**FIT:**	1.74 SG EMW @ 327.0m MDRT
Days From Spud:	6.4	**Mud Weight:**	1.09 SG
Depth @ 2400 Hrs:	871.0 m MDRT 680.6 m TVDRT	**ECD:**	1.13 SG
		Mud Type:	KCL/PHPA/Glycol
Lag Depth:	871.0 m MDRT	**Mud Chlorides:**	38,000 mg/l
Last Depth:	542.0 m MDRT	**Est. Pore Pressure:**	1.09 SG
Progress:	329.0 m	**DXC:**	Normal
Water Depth:	52.5 m	**Last Survey:**	838.2 m MDRT
RT:	25.0 m	**Deviation:**	Inc. 76.30 º Az. 234.16 º

OPERATIONS SUMMARY

24 HOUR SUMMARY: Continued drilling 12.25" directional hole from 542m to 871m MDRT. Increased mud weight from 1.09 SG to 1.15 SG for wiper trip. Commence wiper trip back to shoe.

NEXT 24 HOURS: Complete wiper trip to shoe. Pull out of hole. Recover wear bushing. Rig up to and run 9-5/8" casing as per program.

CURRENT OPERATION @ 07:00 HRS (31/05/2002): Pulling out of hole to run 9-5/8" casing.

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 542 to 570 m MDRT
ROP (Range): 3 to 70 m/hr
Av. ROP: 25 m/hr

Predominantly ARGLLACEOUS CALCILUTITE with Interbedded CALCARENITE and CALCISILTITE.

ARGILLACEOUS CALCILUTITE: (30 - 60%) light greenish grey to medium olive grey, medium dark grey in parts, amorphous, soft, dispersive in part, 20-30% argillaceous matrix, 10-20% calcisilt, trace glauconite silt. Grades to Argillaceous Calcisiltite in parts.

CALCISILTITE: (20 - 40%) light grey, light to medium yellowish grey, soft to firm, rare hard, trace -10% fossil fragments (shell, bryozoa, echinoid spicules), trace to 10% fine grained calcite, grades to calcarenite in part, 5-10% calcilutite matrix, re-crystallized in part, trace light to dark green glauconite, nil to trace pyrite.

CALCARENITE: (20 - 40%) very light to light grey, light to medium yellowish grey, firm, silty to fine grained calcite, trace -10% fossil fragments (shell, bryozoa, echinoid spicules), 5-15% calcilutite matrix, re-crystallized in part, trace light to dark green glauconite, nil to trace pyrite. Grades to Calcisiltite in parts.

INTERVAL: 570 to 595 m MDRT
ROP (Range): 10 to 80 m/hr
Av. ROP: 35 m/hr

ARGILLACEOUS CALCILUTITE with minor CALCAREOUS CLAYSTONE, CALCARENITE and CALCISILTITE interbeds.

ARGILLACEOUS CALCILUTITE: (20 - 60%) light greenish grey to medium olive grey, medium dark grey in

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parts, amorphous, soft, dispersive, 20-30% argillaceous matrix, 10-20% calcisilt. trace glauconite silt. Grades to Argillaceous Calcisiltite in parts.

CALCAREOUS CLAYSTONE: (10 - 30%) light to dominantly medium olive grey, occasionally dark olive grey, soft to firm, amorphous to sub-blocky, 20-30% micrite content, grades to Marl / Argillaceous Calcilutite,

CALCISILTITE: (10 - 20%) as above, grades to Calcarenite in part.

CALCARENITE: (20 - 50%) very light to light grey, light to medium yellowish grey, firm, silty to fine grained calcite, trace -5% fossil fragments (shell, bryozoa, echinoid spicules), 5-20% calcilutite matrix, re-crystallized in part, trace light to dark green glauconite, nil to trace nodular pyrite. Grades to Calcisiltite in parts.

INTERVAL: 595 to 645 m MDRT
ROP (Range): 5 to 70 m/hr
Av. ROP: 30 m/hr

ARGILLACEOUS CALCILUTITE with minor CALCARENITE and CALCISILTITE Interbeds.

ARGILLACEOUS CALCILUTITE: (35 - 60%) light greenish grey to medium olive grey, amorphous, soft to firm, slightly dispersive, 20-30% argillaceous matrix, 10-20% calcisilt. trace glauconite silt. Grades to Argillaceous Calcisiltite in parts.

CALCARENITE: (20 - 45%) white to light grey, light to medium yellowish grey, firm, silty to fine grained calcite, trace - 5% fossil fragments (shell, bryozoa, echinoid spicules), 5-20% calcilutite matrix, re-crystallized in part, trace light to dark green glauconite, nil to trace nodular pyrite. Grades to Calcisiltite in parts.

CALCISILTITE: (10 - 30%) light grey, light to medium olive grey, soft to firm, trace -5% fossil fragments (shell, bryozoa, echinoid spicules), trace to 10% fine grained calcite, grades to calcarenite in part, 5-10% calcilutite matrix, re-crystallized in part, trace light to dark green glauconite, nil to trace nodular pyrite.

INTERVAL: 645 to 728 m MDRT
ROP (Range): 5 to 80 m/hr
Av. ROP: 30 m/hr

ARGILLACEOUS CALCILUTITE with minor CALCARENITE and CALCISILTITE Interbeds.

ARGILLACEOUS CALCILUTITE: (50 - 65%) light greenish grey to medium to dark olive grey, amorphous, soft to firm, slightly dispersive, 20-30% argillaceous matrix, 10-20% calcisilt. trace glauconite silt. Grades to Argillaceous Calcisiltite in parts.

CALCARENITE: (20 - 40%) white to light grey, light to medium yellowish grey, firm, fine to medium grained calcite, trace - 5% fossil fragments (shell, bryozoa, echinoid spicules), 5-20% calcilutite matrix, re-crystallized in part, trace light to dark green glauconite, nil to trace nodular pyrite. Grades to Calcisiltite in parts.

CALCISILTITE: (10 - 15%) light grey, light to medium olive grey, soft to firm, trace -5% fossil fragments (shell, bryozoa, echinoid spicules), trace to 10% fine grained calcite, grades to calcarenite in part, 5-10% calcilutite matrix, re-crystallized in part, trace light to dark green glauconite, nil to trace nodular pyrite.

INTERVAL: 728 to 735 m MDRT
ROP (Range): 30 to 70 m/hr
Av. ROP: 40 m/hr

MARL with Interbedded ARGILLACEOUS CALCILUTITE and minor CALCAREOUS CLAYSTONE and CALCISILTITE

MARL: (40-60%) light grey to light olive grey, medium olive grey, very soft, dispersive, amorphous, 40-50%

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siliceous clay, trace chert, trace disseminated pyrite, trace calcisilt. Grades to Argillaceous Calcilutite.

ARGILLACEOUS CALCILUTITE: (10-30%) light greenish grey to medium olive grey, soft to firm, amorphous, slightly dispersive, 20-40% siliceous clay, trace to 5% calcisilt. trace glauconite, commonly grades to Marl / Calcareous Claystone.

CALCAREOUS CLAYSTONE: (20%) medium olive grey, occasionally dark olive grey, soft to firm, amorphous to sub blocky, 20-30% micrite content. Grades to Marl / Argillaceous Calcilutite.

CALCISILTITE: (10%) light grey, light to medium olive grey, pinkish grey in parts, soft to firm, trace -5% fossil fragments (shell, bryozoa), trace forams, trace to 10% very fine grained calcite, grades to calcarenite in part, 5-10% calcilutite matrix, re-crystallized in part, trace light to dark green glauconite, nil to trace nodular pyrite.

INTERVAL: 735 to 806 m MDRT
ROP (Range): 10 to 10 m/hr
Av. ROP: 45 m/hr

CALCAREOUS CLAYSTONE and Interbedded MARL

CALCAREOUS CLAYSTONE: (30-90%) medium grey to medium olive grey, occasionally dark olive grey, greenish grey in parts, brownish yellow in parts, soft to firm, very soft in parts, amorphous to sub blocky, 15-30% micrite content, trace forams, trace fossil fragments, trace quartz silt to very fine sand, trace carbonaceous wisps, trace very fine pelloidal glauconite. Grades to Claystone.

MARL: (10-70%) light grey to light olive grey, medium olive grey, very soft to soft, dispersive, amorphous, 40-50% siliceous clay, trace chert, trace disseminated pyrite, trace calcisilt, trace forams. Grades to Calcareous Claystone.

INTERVAL: 806 to 840 m MDRT
ROP (Range): 15 to 85 m/hr
Av. ROP: 35 m/hr

CALCAREOUS CLAYSTONE

CALCAREOUS CLAYSTONE: (100%) medium grey to medium olive grey, occasionally dark olive grey, greenish grey in parts, brownish yellow in parts, soft to firm, very soft in parts, amorphous to sub blocky, 15-30% micrite content, trace forams, trace fossil fragments, trace -3% quartz silt to very fine sand, trace carbonaceous wisps, 1-3% very fine to fine pelloidal glauconite, trace pyrite. Grades to Claystone.

INTERVAL: 840 to 871 m MDRT
ROP (Range): 20 to 180 m/hr
Av. ROP: 50 m/hr

SILTY SANDSTONE with minor Interbedded ARENACEOUS SILTSTONE and CLAYSTONE

SILTY SANDSTONE: (20-80%) light to dark yellowish brown, medium brownish grey, loose and friable, minor firm, clear to translucent, occasionally very light grey, quartz grains, very fine to fine, trace medium, poorly to moderately sorted, sub angular to sub rounded, 15-30% quartz silt, 5-15% argillaceous content, trace-3% glauconite, trace-1% mica (muscovite and biotite), trace multicolored lithics, fair to good inferred porosity, no fluorescence.

ARENACEOUS SILTSTONE: (5-30%) light to medium yellowish brown, dark brown, soft to firm, very soft in parts, blocky, 15-25% very fine quartz, 10-20% argillaceous content, trace micrite content, trace-3% glauconite, trace mica, trace limonite? nodules.

CLAYSTONE: (5-40%): medium grey to medium olive grey, occasionally dark olive grey, greenish grey in parts, soft to firm, amorphous to sub blocky, 5-10% micrite content, trace forams, trace-5% quartz silt to

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very fine sand, trace carbonaceous wisps, 3-5% very fine to fine pelloidal glauconite.

HYDROCARBON FLUORESCENCE

No Shows

GAS SUMMARY

Background Gas

INTERVAL	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
542 - 570	0.01	81	0	0	0	0	0
570 - 595	0.02	190	0	0	0	0	0
595 - 645	0.07	483	0	0	0	0	0
645 - 727	0.12	899	0	0	0	0	0
727 - 735	0.12	907	0	0	0	0	0
735 - 806	0.17	1200	0	0	0	0	0
806 - 840	0.59	4004	0	0	0	0	0
840 - 871	9.29	53343	0	0	0	0	0

Gas Peak

INTERVAL	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
813 - 813	0.5	3361	0	0	0	0	0
840 - 840	1.11	5887	0	0	0	0	0
855 - 855	8.8	64799	0	0	0	0	0
859 - 859	23.3	111859	0	0	0	0	0
871 - 871	10.6	55975	0	0	0	0	0

Connection Gas

INTERVAL	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
797 - 797	0.32	2549	0	0	0	0	0
826 - 826	0.49	2039	0	0	0	0	0

CALCIMETRY

Interval (m MDRT)	Calcite Range (%)	Dolomite Range (%)
542 - 570	52 - 68 %	0 - 2 %
570 - 595	69 - 80 %	0 %
595 - 645	52 - 64 %	0 %
645 - 728	28 - 70 %	0 %
728 - 735	42 %	0 %
735 - 806	22 - 44 %	0 %
806 - 840	8 - 24 %	0 %
840 - 871	2 - 10 %	0 %

Calcimetry was conducted on 5m samples except where rates of penetration were too high.

FORMATION PRESSURE ESTIMATION

Small connection gases were observed at 797m and at 826m. Further confirmation was not obtained due to increasing gas levels from the Gurnard Formation gas reservoir. The mud weight was increased from 1.09 sg to 1.15 sg prior to conducting the wiper trip. A gas peak of 23.3% was recorded from the top of the Gurnard Silty Sandstone reservoir at 889m. The pore pressure was increased marginally from 1.03 to 1.09 sg based on the connection gases observed.

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SAMPLE QUALITY
Sample is being conducted at 5m intervals where ROP's permit and at 10m intervals where the rates of penetration are high. Sample quality is generally very good.

MUDLOGGING EQUIPMENT / PERSONNEL
All equipment functioning normally with the exception of the Torque sensor which is currently inoperative. A replacement Torque sensor will be arriving on the rig on this Fridays helicopter.

MWD
LWD sensor point distances from bit;

EWR 11.83m
DGR 14.75m
DM 18.33m

Sampling rate is set at 10 seconds. The 8" motor has a 1.5 degree bend on the bent housing.

REMARKS

Extrapolated inclination to TD is 81.5 degrees.

WELLSITE GEOLOGISTS
Peter Boothby / Ross Tolliday

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Date:	31 May 2002	**Rig:**	Ocean Bounty
Report Number:	5	**Bit Diameter:**	N/A
Report Period:	00:00 - 24:00 Hours	**Last Casing:**	9-5/8" @ 866.1 m MDRT
Spud Date:	24 May 2002 14:00 Hours	**FIT:**	N/A
Days From Spud:	7.4	**Mud Weight:**	1.16 SG
Depth @ 2400 Hrs:	871.0 m MDRT 680.6 m TVDRT	**ECD:**	N/A
		Mud Type:	KCL/PHPA/Glycol
Lag Depth:	N/A	**Mud Chlorides:**	38,000 mg/l
Last Depth:	871.0 m MDRT	**Est. Pore Pressure:**	1.09 SG
Progress:	0 m	**DXC:**	Normal
Water Depth:	52.5 m	**Last Survey:**	838.2 m MDRT
RT:	25.0 m	**Deviation:**	Inc. 76.30 º Az. 234.16 º

OPERATIONS SUMMARY

24 HOUR SUMMARY: Completed wiper trip and pulled out of hole. Rigged up and ran 9-5/8" casing as per program. Casing shoe landed at 866.1m MDRT (680.0m TVDRT). Cemented the 9-5/8" casing as per program. Rigged up to and ran seal assembly. Tested casing to 3,000 psi.

NEXT 24 HOURS: Complete testing BOP's and surface equipment. Make up and run into hole with 8.5" directional BHA. Drill out cement and shoe track and clean out rat hole. Drill 3m of new formation and conduct FIT. Drill ahead in 8.5" hole and build well to 90 degrees.

CURRENT OPERATION @ 08:00 HRS (01/06/2002): Pressure testing surface equipment.

GEOLOGICAL SUMMARY

LITHOLOGY
No new lithology

MUDLOGGING EQUIPMENT / PERSONNEL
All equipment functioning normally with the exception of the Torque sensor which is currently being installed and calibrated.

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Date:	01 June 2002	**Rig:**	Ocean Bounty
Report Number:	6	**Bit Diameter:**	8.5 "
Report Period:	00:00 - 24:00 Hours	**Last Casing:**	9-5/8" @ 866.1 m MDRT
Spud Date:	24 May 2002 14:00 Hours	**FIT:**	1.41 SG EMW @ 866.1m MDRT
Days From Spud:	8.4	**Mud Weight:**	1.11 SG
Depth @ 2400 Hrs:	919.0 m MDRT 684.3 m TVDRT	**ECD:**	1.24 SG
		Mud Type:	Flo-Pro (KCL/DIF)
Lag Depth:	919.0 m MDRT	**Mud Chlorides:**	78,000 mg/l
Last Depth:	871.0 m MDRT	**Est. Pore Pressure:**	1.09 SG
Progress:	48.0 m	**DXC:**	Normal
Water Depth:	52.5 m	**Last Survey:**	908.0 m MDRT
RT:	25.0 m	**Deviation:**	Inc. 87.99 º Az. 235.57 º

OPERATIONS SUMMARY

24 HOUR SUMMARY: Ran and set seal assembly and tested BOP annular and rams 300 / 3,000 psi. Pulled out of hole with seal assembly and pressure tested surface equipment. Made up 8.5" BHA with 6-3/4" motor set to 1.5 degrees. Ran in hole with BHA to 810m and serviced TDS. Ran into hole to 842m and tagged cement. Drilled out shoe track and rat hole to 871m. Displaced hole to Flo-Pro Mud System weighted to 1.12 SG. Performed FIT to 1.41 SG EMW. Drilled ahead in 8.5" hole to 919m MDRT. Experienced power failure on TDS. Pulled back to shoe at 866m laying out singles as unable to rotate top drive.

NEXT 24 HOURS: Trouble shoot top drive. Repair electrical junction box on TDS. Run back into hole and drill ahead to the planned total depth.

CURRENT OPERATION @ 07:00 HRS (02/06/2002): Drilling ahead in 8.5" hole at 990m MDRT (682.2m TVDRT).

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 871 to 919 m MDRT
ROP (Range): 6 to 96 m/hr
Av. ROP: 39 m/hr

SILTY SANDSTONE grading to SIDERITIC SANDSTONE and minor SANDY SILTSTONE

SILTY SANDSTONE: (60-95%) medium to dark yellowish brown, friable and loose to hard aggregates, clear to translucent, occasionally very light grey, quartz grains, very fine to lower medium, mainly lower fine, poorly to moderately sorted, sub angular to sub rounded, 15-30% quartz silt,5-25% siderite(?) cement, trace -5% argillaceous content, trace glauconite, trace-1% mica (muscovite and biotite), trace multicoloured lithics, fair to good inferred porosity, no fluorescence. Grades to Sideritic Sandstone in parts.

SANDY SILTSTONE: (5-40%) dark yellowish brown to dark brown, soft to firm, very soft in parts, blocky, 15-25% very fine quartz, 10-20% siderite (?) content, trace glauconite, trace carbonaceous debris, trace mica, trace limonite? nodules, trace pyrite.

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No Shows

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GAS SUMMARY

Background Gas

INTERVAL	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
871 - 919	1.09	7104	0	0	0	0	0

Gas Peaks

INTERVAL	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
896 - 896	2.3	16862	0	0	0	0	0
899 - 899	1.7	12683	0	0	0	0	0
901 - 901	2.55	17916	0	0	0	0	0
913 - 913	5.2	35253	0	0	0	0	0

SAMPLE QUALITY

Sample is being conducted at 5m intervals. Sample quality is generally poor to fair. The clays within the Sands are being dispersed resulting in very soft and hydrated cuttings making interpretation difficult.

MUDLOGGING EQUIPMENT / PERSONNEL

All equipment functioning normally with the exception of the Torque sensor which is still currently inoperative. The replacement unit was installed but failed to function.

MWD

LWD sensor point distances from bit;

Survey (PM)	9.54m
Gamma Ray (DGR)	11.69m
Density (SLD)	14.89m
Resistivity (EWR)	17.69m
Neutron (CNP)	20.65m

Sampling rate for recorded data is set at 10 seconds. The 6 3/4" motor has a 1.5 degree bend on the bent housing.

REMARKS

WELLSITE GEOLOGISTS

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Date:	02 June 2002	**Rig:**	Ocean Bounty
Report Number:	7	**Bit Diameter:**	8.5 "
Report Period:	00:00 - 24:00 Hours	**Last Casing:**	9-5/8" @ 866.1 m MDRT
Spud Date:	24 May 2002 14:00 Hours	**FIT:**	1.41 SG EMW @ 866.1m MDRT
Days From Spud:	9.4	**Mud Weight:**	1.16 SG
Depth @ 2400 Hrs:	1287.0 m MDRT 673.0 m TVDRT	**ECD:** **Mud Type:**	1.36 SG Flo-Pro (KCL/DIF)
Lag Depth:	1287.0 m MDRT	**Mud Chlorides:**	80,000 mg/l
Last Depth:	919.0 m MDRT	**Est. Pore Pressure:**	1.09 SG
Progress:	368.0 m	**DXC:**	Normal
Water Depth:	52.5 m	**Last Survey:**	1256.76m MDRT
RT:	25.0 m	**Deviation:**	Inc. 89.30º Az. 236.89º

OPERATIONS SUMMARY

24 HOUR SUMMARY: Complete repairs on top drive. Run back into hole and drill ahead in 8.5" hole from 919m to 1287m.

NEXT 24 HOURS: Continue drilling 8.5" hole to 1352m (Total Depth). Circulate bottoms up to confirm lithology. Circulated until shakers clean. Back reamed out of hole to 1050m. Ream back into hole logging with LWD from 1050m to 1200m to re-acquire LWD data for repeat purposes. Pull out of hole to surface and download LWD memory data.

CURRENT OPERATION @ 07:00 HRS (03/06/2002): Reaming and logging into hole from 1050m to 1200m MDRT

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 919 to 940 m MDRT
ROP (Range): 4 to 80 m/hr
Av. ROP: 38 m/hr

SILTY SNDSTONE and inter-bedded SANDY SILTSTONE

SILTY SANDSTONE: (40-60%) medium to dark yellowish brown, medium to dark greyish brown, clear to translucent quartz grains, soft, silt size to fine grained, dominantly very fine to fine, moderately sorted, angular to sub-rounded, 15-25% quartz silt, 5% argillaceous content, suspect clays being dispersed in mud, trace to 2% sideritic cement, trace to 2% micro-mica (biotite and muscovite), trace to 1% dark green glauconite, trace feldspar, trace nodular and disseminated pyrite, minor multicoloured lithics, fair to good inferred porosity.

SANDY SILTSTONE: (40-60%) dark yellowish brown to dark brown, soft to very soft in parts, blocky, 15-25% very fine quartz, 5% siderite (?) content, trace glauconite, trace mica, trace limonite? nodules, trace pyrite.

INTERVAL: 940 to 1088 m MDRT
ROP (Range): 2 to 88 m/hr
Av. ROP: 37 m/hr

SILTY SANDSTONE with minor inter-bedded SANDY SILTSTONE

SILTY SANDSTONE: (60-100%) medium to dark yellowish brown, dusky yellowish brown, clear to

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translucent quartz grains, loose to minor firm aggregates, dominantly loose to friable, silt size to fine grained, rare medium grained, dominantly very fine to fine, poor to moderately sorted, angular to sub-rounded, 15-25% quartz silt, 5-10% argillaceous content, suspect clays being dispersed in mud, trace to minor sideritic cemented aggregates and nodules, trace to 3% micro-mica (biotite and muscovite), trace to 2% dark green glauconite, trace feldspar, trace nodular and disseminated pyrite, minor multicoloured lithics, fair to good inferred porosity.

SANDY SILTSTONE: (0-40%) dark yellowish brown to dark brown, dusky yellowish brown, soft, very soft in parts, sub-blocky, 15-25% very fine quartz, trace to 5% siderite content, 10-15% argillaceous matrix, trace glauconite, trace mica, trace nodular and disseminated pyrite.

INTERVAL: 1088 to 1167 m MDRT
ROP (Range): 17 to 72 m/hr
Av. ROP: 48 m/hr

SILTY SANDSTONE with trace to 2% SANDSTONE

SANDSTONE: (trace-2%) clear to translucent, very light grey, loose, coarse to very coarse quartz grains, trace medium, angular to sub-rounded, minor white kaolin matrix, very good inferred porosity.

SILTY SANDSTONE: (98-100%) medium to dark yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose to minor hard aggregates, dominantly loose to friable, silt size to fine grained, rare medium grained, dominantly very fine to fine, poor to moderately sorted, angular to sub-rounded, 10-25% quartz silt, 5-10% argillaceous (sideritic) content, suspect clays being dispersed in mud, trace to minor sideritic cemented aggregates and nodules, trace to 2% micro-mica (biotite and muscovite), trace dark green glauconite, trace feldspar, trace disseminated pyrite, trace multicoloured lithics, good inferred porosity.

INTERVAL: 1167 to 1287 m MDRT
ROP (Range): 12 to 100 m/hr
Av. ROP: 51 m/hr

SILTY SANDSTONE with minor SANDY SILTSTONE

SILTY SANDSTONE: (80-95%) Medium to dark yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose to firm, minor hard aggregates, dominantly loose to friable, silt size to fine grained, rare medium grained, dominantly very fine to fine, poor to moderately sorted, angular to sub-rounded, 15-25% quartz silt, 5-10% argillaceous (sideritic) content, trace to minor siderite cemented aggregates and nodules, trace to 1% micro-mica (biotite and muscovite), trace dark green glauconite, trace feldspar, trace to 5% disseminated and nodular pyrite, trace multicoloured lithics, good inferred porosity. 10-20% disseminated and nodular pyrite from 1180 to 1200m, grades to Pyritic Sandstone.

SANDY SILTSTONE: (5-20%) dark yellowish brown to dark brown, dusky yellowish brown, soft to very soft in parts, sub-blocky, 15-25% very fine quartz, trace to 5% siderite content, 10-15% argillaceous matrix, trace glauconite, trace mica, trace nodular and disseminated pyrite.

HYDROCARBON FLUORESCENCE
No Shows

GAS SUMMARY

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Background Gas

INTERVAL	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
919 - 940	2.69	16914	0	0	0	0	0
940 - 1088	3.64	23868	0	0	0	0	0
1088 - 1167	4.92	32776	0	0	0	0	0
1167 - 1287	6.33	39163	0	0	0	0	0

Gas Peak

INTERVAL	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
926 - 926	5.64	27640	0	0	0	0	0
957 - 957	6.81	47735	0	0	0	0	0
1014 - 1014	8.05	57795	0	0	0	0	0
1050 - 1050	10.49	75986	0	0	0	0	0
1144 - 1144	10.41	72723	0	0	0	0	0
1206 - 1206	12.1	76328	0	0	0	0	0
1278 - 1278	15.64	96255	0	0	0	0	0

SAMPLE QUALITY

Sampling is being conducted at 5m intervals. Sample quality is generally fair. The clays within the Sands are being dispersed resulting in very soft and hydrated cuttings making interpretation difficult. This is also supported by an increasing MBT.

MUDLOGGING EQUIPMENT / PERSONNEL

All equipment functioning normally with the exception of the Torque sensor which is still currently inoperative. The replacement unit was installed but failed to function. The BHI office have been informed and a technician is yet to respond.

MWD

LWD sensor point distances from bit;

Survey (PM)	9.54m
Gamma Ray (DGR)	11.69m
Density (SLD)	14.89m
Resistivity (EWR)	17.69m
Neutron (CNP)	20.65m

Sampling rate for recorded data is set at 10 seconds. The 6 3/4" motor has a 1.5-degree bend on the bent housing.

REMARKS

WELLSITE GEOLOGISTS

Peter Boothby / Ross Tolliday

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Date:	03 June 2002	**Rig:**	Ocean Bounty
Report Number:	8	**Bit Diameter:**	8.5 "
Report Period:	00:00 - 24:00 Hours	**Last Casing:**	9-5/8" @ 866.1 m MDRT
Spud Date:	24 May 2002 14:00 Hours	**FIT:**	1.41 SG EMW @ 866.1m MDRT
Days From Spud:	10.4	**Mud Weight:**	1.18 SG
Depth @ 2400 Hrs:	1352.0 m MDRT 673.1 m TVDRT	**ECD:** **Mud Type:**	1.33 SG Flo-Pro (KCL/DIF)
Lag Depth:	1352.0 m MDRT	**Mud Chlorides:**	84,000 mg/l
Last Depth:	1287.0 m MDRT	**Est. Pore Pressure:**	1.09 SG
Progress:	65.0 m	**DXC:**	Normal
Water Depth:	52.5 m	**Last Survey:**	1343.52m MDRT
RT:	25.0 m	**Deviation:**	Inc. 88.48 º Az. 235.79 º

OPERATIONS SUMMARY

24 HOUR SUMMARY: Continued drilling 8.5" hole from 1287m to 1352m MDRT section TD. Pulled out of hole to 1050m. Ran back into hole logging at 50m/hr to 1200m MDRT. Pulled out of hole and downloaded LWD tools. Ran back into hole to 1137m and commenced sidetracking well. Baleen-3 ST was sidetracked at 19:30 hrs on the 3rd June 2002.

NEXT 24 HOURS: Refer to Baleen 3-ST1 Report 8a.

CURRENT OPERATION @ 08:00 HRS (04/06/2002) : See operations for Baleen -3 ST1 Report 8a.

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 1287 to 1313 m MDRT
ROP (Range): 15 to 70 m/hr
Av. ROP: 35 m/hr

SIDERITIC SANDSTONE and minor SANDY SILTSTONE

SIDERITIC SANDSTONE: (80-95%) medium to dark yellowish brown, loose to friable, minor firm, clear to translucent and occasionally very light grey quartz grains, very fine to lower medium, mainly lower fine, poorly to moderately sorted, angular to sub rounded, 10-20% quartz silt,15-25% siderite(?) cement in part, 15-20% dusky yellowish brown siderite nodules, 5% argillaceous content, 5-10% dark green glauconite, trace-1% mica (muscovite and biotite), trace multicoloured lithics, fair to good inferred porosity, no fluorescence.

SANDY SILTSTONE: (5-20%) dark yellowish brown to dark brown, dusky yellowish brown, soft to very soft in parts, sub-blocky, 15-25% very fine quartz, trace to 10% siderite content, 10-15% argillaceous matrix, trace to 2% glauconite, trace mica, trace nodular and disseminated pyrite.

INTERVAL: 1313 to 1352 m MDRT
ROP (Range): 5 to 45 m/hr
Av. ROP: 25 m/hr

CLAYSTONE and minor SANDY SILTSTONE and SANDSTONE

CLAYSTONE: (70-85%) light to medium grey, rare medium olive grey, soft to firm, amorphous to sub blocky, 10-20% micrite content, trace forams, 10-15% quartz silt to very fine sand, 5-10% very fine to fine pelloidal glauconite, grades to Calcareous Claystone in parts.

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SANDY SILTSTONE: (10-20%) dark yellowish brown to dark brown, dusky yellowish brown, soft to very soft in parts, sub-blocky, 15-25% very fine quartz, trace to 10% siderite content, 10-15% argillaceous matrix, trace to 2% glauconite, trace mica, trace nodular and disseminated pyrite.

SANDSTONE: (0-10%) medium to dark yellowish brown, loose to friable, minor firm, clear to translucent and occasionally very light grey quartz grains, very fine to lower medium, mainly lower fine, poorly to moderately sorted, angular to sub rounded, 10-20% quartz silt,10-15% siderite cement in part, 5-10% dusky yellowish brown siderite nodules, 5% argillaceous content, 2-5% dark green glauconite, trace-1% mica (muscovite and biotite), trace multicoloured lithics, fair to good inferred porosity, no fluorescence.

HYDROCARBON FLUORESCENCE
No Shows

GAS SUMMARY

Background Gas

INTERVAL	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
1287 - 1313	1.5	12740					
1313 - 1352	0.29	2240					

SAMPLE QUALITY

Sample is being conducted at 5m intervals. Sample quality is generally fair. The clays within the Sands are being dispersed resulting in very soft and hydrated cuttings making interpretation difficult. This is also supported by an increasing MBT.

MUDLOGGING EQUIPMENT / PERSONNEL
All equipment functioning normally with the exception of the Torque sensor which is still currently inoperative. The replacement unit was installed but failed to function. The BHI office have been informed and a technician is yet to respond.

MWD
LWD sensor point distances from bit;

Survey (PM)	9.54m
Gamma Ray (DGR)	11.69m
Density (SLD)	14.89m
Resistivity (EWR)	17.69m
Neutron (CNP)	20.65m

Sampling rate for recorded data is set at 10 seconds. The 6 3/4" motor has a 1.5 degree bend on the bent housing.

REMARKS

WELLSITE GEOLOGISTS
Peter Boothby Ross Tolliday

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Date:	03 June 2002	**Rig:**	Ocean Bounty
Report Number:	8a	**Bit Diameter:**	8.5 "
Report Period:	19:30 - 24:00 Hours	**Last Casing:**	9-5/8" @ 866.1 m MDRT
Spud Date:	24 May 2002 14:00 Hours	**FIT:**	1.41 SG EMW @ 866.1m MDRT
Days From Spud:	10.4	**Mud Weight:**	1.18 SG
Depth @ 2400 Hrs:	1144.0 m MDRT 677.7 m TVDRT	**ECD:**	1.33 SG
		Mud Type:	Flo-Pro (KCL/DIF)
Lag Depth:	1144.0 m MDRT	**Mud Chlorides:**	84,000 mg/l
Last Depth:	1137.0 m MDRT	**Est. Pore Pressure:**	1.09 SG
Progress:	7.0 m	**DXC:**	Normal
Water Depth:	52.5 m	**Last Survey:**	1115.3 m MDRT
RT:	25.0 m	**Deviation:**	Inc. 92.07 º Az. 238.42 º

OPERATIONS SUMMARY

24 HOUR SUMMARY: Commenced sidetracking well at 19:30 hrs on the 3rd June at 1137m MDRT. Continued drilling and sliding from 1137m to 1144m MDRT.

NEXT 24 HOURS: Drill ahead in 8.5" hole to planned total depth of 1530m MDRT.

CURRENT OPERATION @ 08:00 HRS (04/06/2002): Drilling ahead in 8.5" deviated hole at 1299m MDRT (682.2m TVDRT).

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 1130 to 1150 m MDRT
ROP (Range): 1.3 to 4.9 m/hr
Av. ROP: 2.9 m/hr

ARGILLACEOUS SANDSTONE with minor CLAYSTONE

CLAYSTONE: (Tr - 20%) dark grey to greyish black, soft to firm, sub blocky to sub fissile, trace -10% quartz silt, trace to commonly carbonaceous.

ARGILLACEOUS SANDSTONE: (80 - 100%) medium yellowish brown, dusky yellowish brown, clear to translucent quartz grains, loose to rare hard aggregates, dominantly loose, silt size to fine grained, rare medium grained, dominantly very fine to fine, poor to moderately sorted, angular to sub-rounded, 10-15% quartz silt, 20-30% argillaceous content, suspect clays being dispersed in mud, trace to minor sideritic cemented aggregates and nodules, trace to 2% micro-mica (biotite and muscovite), trace dark green glauconite, trace feldspar, trace disseminated pyrite, trace multicoloured lithics, Poor to fair inferred porosity.

HYDROCARBON FLUORESCENCE
No Shows

GAS SUMMARY

Background Gas

INTERVAL	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
1137 - 1144	0.1	922	0	0	0	0	0

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SAMPLE QUALITY

Sampling being conducted at 10m intervals

MUDLOGGING EQUIPMENT / PERSONNEL
All equipment functioning normally. Torque sensor not functional.

MWD
LWD sensor point distances from bit;

Survey (PM)	9.54m
Gamma Ray (DGR)	11.69m
Density (SLD)	14.89m
Resistivity (EWR)	17.69m
Neutron (CNP)	20.65m

Sampling rate for recorded data is set at 10 seconds. The 6 3/4" motor has a 1.5 degree bend on the bent housing.

REMARKS

WELLSITE GEOLOGISTS
Peter Boothby / Ross Tolliday

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Date:	04 June 2002	**Rig:**	Ocean Bounty
Report Number:	9 (final)	**Bit Diameter:**	8.5 "
Report Period:	00:00 - 24:00 Hours	**Last Casing:**	9-5/8" @ 866.1 m MDRT
Spud Date:	24 May 2002 13:30 Hours	**FIT:**	1.41 SG EMW @ 866.1m MDRT
Days From Spud:	11.4	**Mud Weight:**	1.22 SG
Depth @ 2400 Hrs:	1555.0 m MDRT 710.4 m TVDRT	**ECD:**	1.41 SG
		Mud Type:	Flo-Pro (KCL/DIF)
Lag Depth:	1555.0 m MDRT	**Mud Chlorides:**	90,000 mg/l
Last Depth:	1144.0 m MDRT	**Est. Pore Pressure:**	1.09 SG
Progress:	411.0 m	**DXC:**	Normal
Water Depth:	52.5 m	**Last Survey:**	1544.2 m MDRT
RT:	25.0 m	**Deviation:**	Inc. 95.32 º Az. 232.23 º

OPERATIONS SUMMARY

24 HOUR SUMMARY: Drilled 8.5" hole from 1144m MDRT to 1555m MDRT (TD). Circulated hole clean and flow checked well. Pumped and rotated out of the hole from 1555m to 1100m. Pulled out of hole from 1100m to 1027m.

NEXT 24 HOURS: Continue pulling out of hole to 840m. Flow check well. Run back into hole from 840m to 1555m. Circulate hole clean. Pump and spot Flo-Pro SF pill from 1555m to 720m. Pull out of hole from 1555m to 780m. Circulate well to Uninhibited Brine until clean. Pull out of hole to run sand screens.

CURRENT OPERATION @ 07:30 HRS (05/06/2002): Displacing hole to uninhibited brine at 760m MDRT.

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 1150 to 1270 m MDRT
ROP (Range): 4 to 120 m/hr
Av. ROP: 55 m/hr

SILTY SANDSTONE

SILTY SANDSTONE: (100%) medium yellowish brown, dusky yellowish brown, medium olive grey, clear to translucent quartz grains, loose, silt size to fine grained, dominantly very fine to fine, poor to moderately sorted, angular to sub-rounded, 15-25% quartz silt, 5-10% argillaceous content, trace to 2% micro-mica (biotite and muscovite), trace to 2% dark green glauconite, trace feldspar, tr-5% disseminated and nodular pyrite, trace multicoloured lithics, good inferred porosity. Grades to Argillaceous Sandstone in parts

INTERVAL: 1270 to 1370 m MDRT
ROP (Range): 7 to 95 m/hr
Av. ROP: 35 m/hr

SILTY SANDSTONE with minor SANDY SILTSTONE

SILTY SANDSTONE: (80-95%) light to medium yellowish brown, dusky yellowish brown, light to medium olive grey, clear to translucent quartz grains, loose, silt size to fine grained, dominantly fine, moderately sorted, angular to sub-rounded, 15-25% quartz silt, 5-10% argillaceous content, trace to 2% micro-mica (biotite and muscovite), trace to 1% dark green glauconite, trace feldspar, tr-1% disseminated and nodular pyrite, trace multicoloured lithics, good inferred porosity.

SANDY SILTSTONE: (5-20%) dark yellowish brown to dark brown, dusky yellowish brown, soft to firm, sub-

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blocky, 15-25% very fine quartz, trace to 5% siderite content, 10-15% argillaceous matrix, trace glauconite, trace mica, trace nodular and disseminated pyrite.

INTERVAL: 1370 to 1430 m MDRT
ROP (Range): 10 to 90 m/hr
Av. ROP: 35 m/hr

SILTY SANDSTONE with minor SANDY SILTSTONE

SILTY SANDSTONE: (90-95%) light to medium yellowish brown, dusky yellowish brown, light to medium olive grey, clear to translucent quartz grains, loose, minor firm to hard aggregates, silt size to fine grained, trace medium, dominantly fine, moderately sorted, sub-angular to sub-rounded, 15-25% quartz silt, 5-10% argillaceous content, trace to 2% micro-mica (biotite and muscovite), 2-4% fine to medium dark green glauconite, trace feldspar, trace disseminated and nodular pyrite, trace multicoloured lithics, good inferred porosity. Grades to Sandstone

SANDY SILTSTONE: (5-10%) dark yellowish brown to dark brown, dusky yellowish brown, soft to firm, sub-blocky, 15-25% very fine quartz, trace to 5% siderite content, 10-15% argillaceous matrix, trace glauconite, trace mica, trace nodular and disseminated pyrite.

INTERVAL: 1430 to 1520 m MDRT
ROP (Range): 2 to 70 m/hr
Av. ROP: 35 m/hr

SANDSTONE grading to ARGILLACEOUS SANDSTONE

SANDSTONE: (100%) light to medium yellowish brown, light to medium olive grey, clear to translucent quartz grains, loose, rare firm aggregates, silt size to fine grained, trace medium, dominantly fine, moderately sorted, sub-angular to sub-rounded, 10-15% quartz silt, 5-20% argillaceous content, clay washing out, 1 to 3% micro-mica (muscovite), 2-4% dark green glauconite, nil to trace feldspar, nil to trace disseminated pyrite, trace multicoloured lithics, very good inferred porosity. Grades to Argillaceous Sandstone.

INTERVAL: 1520 to 1555 m MDRT
ROP (Range): 15 to 70 m/hr
Av. ROP: 35 m/hr

SANDSTONE

SANDSTONE: (100%) light to medium yellowish brown, light olive grey, clear to translucent quartz grains, loose, silt size to fine grained, trace medium, dominantly fine, moderately sorted, sub-angular to sub-rounded, 5-10% quartz silt, 5-15% argillaceous content, clay washing out, trace micro-mica (muscovite), trace dark green glauconite, nil to trace feldspar, trace disseminated pyrite, trace multicoloured lithics, very good inferred porosity. Grades to Argillaceous Sandstone in parts.

HYDROCARBON FLUORESCENCE
No Shows

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GAS SUMMARY

Background Gas

INTERVAL	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
1144 - 1270	6.7	45300					
1270 - 1370	3.4	19700					
1370 - 1555	2.5	15500					

Gas Peak

INTERVAL	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
1427 - 1427	7	43800					
1439 - 1439	6.45	35650					
1469 - 1469	7.2	35400					

SAMPLE QUALITY
Sampling being conducted at 10m intervals

MUDLOGGING EQUIPMENT / PERSONNEL
All equipment functioning normally. Torque sensor not functional.

MWD
LWD sensor point distances from bit;

Survey (PM)	9.54m
Gamma Ray (DGR)	11.69m
Density (SLD)	14.89m
Resistivity (EWR)	17.69m
Neutron (CNP)	20.65m

Sampling rate for recorded data is set at 10 seconds. The 6 3/4" motor has a 1.5-degree bend on the bent housing.

WELLSITE GEOLOGISTS
Peter Boothby / Ross Tolliday

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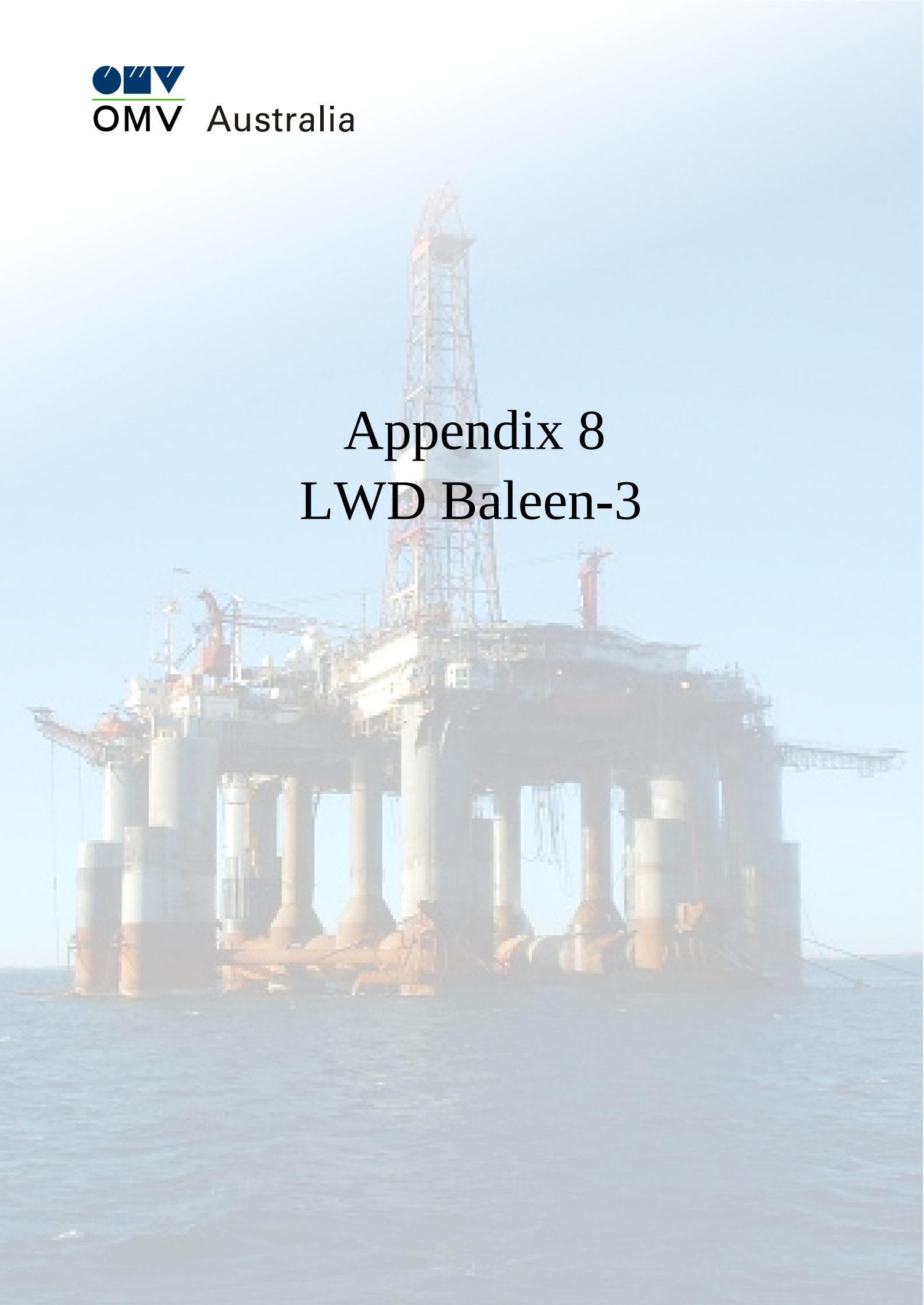
OMV Australia



Appendix 8
LWD Baleen-3

End of Well Report
for
OMV

Rig:	Ocean Bounty
Well:	Baleen-3
Field:	Baleen
Country:	Australia
Job No:	AU-FE-02023
Date:	24-May-02
API No:	

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3. Summary of MWD Runs

4. Bitrun Summary

5. Directional Survey Data

General Information

Company:	OMV	
Rig:	Ocean Bounty	
Well:	Baleen-3	
Field:	Baleen	
Country:	Australia	
API Number:		
Sperry-Sun Job Number:	AU-FE-02023	
Job start date:	24-May-02	
Job end date:	05-Jun-02	
North reference:	Grid	
Declination:	13.108	deg
Dip angle:	-68.544	deg
Total magnetic field:	59940.594	nT
Date of magnetic data:	26-May-02	
Wellhead coordinates N:	38 deg. 0 min 20.99 sec South	
Wellhead coordinates E:	148 deg. 26 min 34.42 sec East	
Vertical section direction:	235.617	deg
MWD Engineers:	P. O'Shea	P. Allen
	J. Nicolson	
Company Representatives:	G. Howard	R. King
Company Geologist:	P. Boothby	R. Tolliday
Lease Name:	VIC/L21	
Unit Number:	LT1087	
State:	Victoria	
County:		

Operational Overview

Sperry Sun Drilling Services was contracted by OMV to provide Logging While Drilling (LWD) services on the drilling of their well, Baleen-3. The well was drilled in permit VIC/L21 by Diamond Offshore General Company's rig the Ocean E

445mm Hole Section:
A basic suite of 8" LWD tools were run to log this hole section. The toolstring consisted of Dual Gamma Ray (DGR) and four phase Electromagnetic Wave Resistivity (EWRP4) that were used for formation evaluation. A Directional Module (DM) was run for deviation control, also providing Surveys on the Fly (SOTF). A Dynamic Drillstring sensor (DDS) was also run for vibration detection and drilling optimisation. This section was co in one bit run from 111.5 to 336.0 mMDRT. All tools performed well and all recorded data was obtained.

311 mm Hole Section:
A basic suite of 8" LWD tools (as run in the 445mm hole section) were run to log this hole section. This section was completed in two bit runs from 336.0 to 871.0 mMDRT. All tools performed well and all recorded data was obtained.

216mm Hole Section:
A Triple Combo suite of 6 ¾" LWD tools were run in this hole section. The toolstring consisted of DGR, EWR-P4, DDS, Stabilised Litho Density (SLD), Compensated Neutron Porosity (CNP) tools that were used for formation evaluation. A Position Monitor (PM) was run for deviation control. This section was completed in one bit run from 871.0 to 1352.0 mMDRT. At this point it was decided that this well would be side tracked. All tools performed well and all recorded data was obtained.

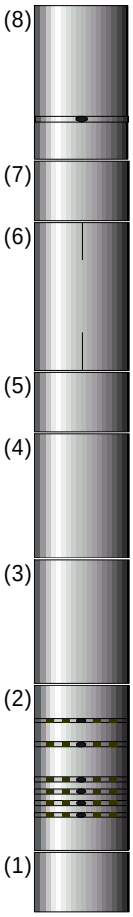
Summary of MWD runs

Run No.	Bit No.	Hole Size (mm)	MWD Sensors	Start Depth (m)	End Depth (m)	Drill/Wipe Distance (m)	Run Start Date Time	Run End Date Time	BRT Hrs.	Oper. Hrs.	Circ. Hrs.	Max. Temp. (degC)	Serv. Int.	Trip for MWD	Failure Type
0100	2	445.00	DGR-EWR	112.00	336.00	224.00	25-May-02 10:02	25-May-02 22:55	12.87	12.87	6.78	24.00	No	No	
0200	3	311.00	DGR-EWR	336.00	548.00	212.00	29-May-02 03:10	29-May-02 18:00	14.82	14.82	7.49	28.00	No	No	
0300	3RR	311.00	DGR-EWR	548.00	871.00	323.00	29-May-02 18:00	31-May-02 09:57	39.97	39.97	23.17	49.00	No	No	
0400	4	216.00	DGR-EWR-CNP-SLD	871.00	1354.00	483.00	01-Jun-02 11:24	03-Jun-02 13:58	50.58	50.58	33.50	52.00	No	No	
TOTALS	====>					1242.00			118.24	118.24	70.94		0	0	

Bitrun Summary

Run Time Data		Drilling Data			Mud Data				
MWD Run :	0100	Start Depth :	112.00	m	Mud Type :	Sea-Water			
Rig Bit No:	2	End Depth :	336.00	m	Weight / Visc :	1.04	sg /	0.00	spqt
Hole Size :	445.00 mm	Footage :	224.00	m	Chlorides :	0.00	ppm		
Run Start :	25-May-02 10:02	Avg. Flow Rate :	912.00	gpm	PV / YP :	12.00	cp /	25.00	lhf2
Run End :	25-May-02 22:55	Avg. RPM :	60.00	rpm	Solids/Sand :	0	% /	0	%
BRT Hrs :	12.87	Avg. WOB :	6.00	klb	%Oil / O:W :	0	% /	0	
Circ. Hrs :	6.78	Avg. ROP :	72.70	m/hr	pH/Fluid Loss:	0.00	pH /	0.00	mptm
Oper. Hrs :	12.87	Avg. SPP :	1552.00	psig	Max. Temp. :	24.00	degC		

MWD Schematics



8. Pulser
SN: 59420

7. Cross Over Sub
SN: 175215

6. DM
SN: 29034
19.69 m Distance from Bit

5. Cross Over Sub
SN: 43488

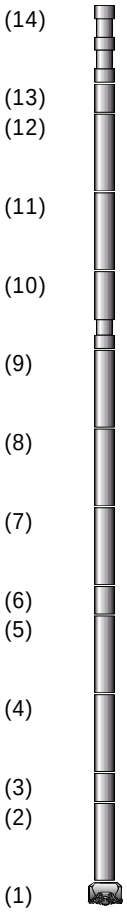
4. HCIM
SN: 100206

3. DGR-DBS
SN: 102971
16.11 m Distance from Bit

2. EWR-P4
SN: 121428
13.19 m Distance from Bit

1. Cross Over Sub
SN: DA8001

BHA Schematics



	Component	Length (m)	O.D. (mm)	I.D. (mm)
14.	HWDP	140.45	127.000	76.200
13.	Cross Over Sub	0.97	203.000	49.000
12.	Drill collar	9.22	203.200	49.000
11.	Drill collar	9.26	203.200	49.000
10.	Drilling Jars	9.69	203.000	49.000
09.	Drill collar	9.53	203.200	49.000
08.	Drill collar	9.39	203.200	50.800
07.	Drill collar	9.52	203.200	71.370
06.	Float Sub	0.70	50.800	25.400
05.	8" MPT w/Dir	6.27	203.000	49.000
04.	8" RLL w/DGR + EWR	6.99	203.000	49.000
03.	Cross Over Sub	1.22	203.000	49.000
02.	9-5/8" SperryDrill	9.59	244.470	76.000
01.	Security DBS XTIC	0.42	445.000	1.000

Comments

Drilled from 112.0 to 336.0 mMDRT. All recorded data was recovered at surface.

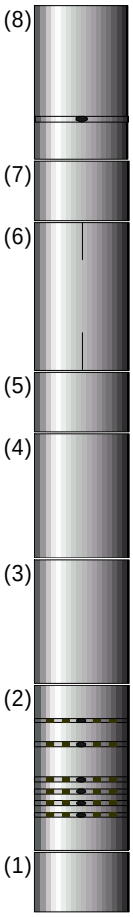
MWD Performance

Tool OD / Type :	203.20	mm/	LWD	
MWD Real-time%	98.00	% /	97.00	%
MWD Recorded%	98.00	% /	100.00	%
Min. Inc. :	0.90	deg/	118.10	m
Max. Inc. :	9.93	deg/	314.31	m
Final Az. :	237.31	deg		
Max Op. Press. :	780.00	psig		

Bitrun Summary

Run Time Data		Drilling Data			Mud Data				
MWD Run :	0200	Start Depth :	336.00	m	Mud Type :	KCl/PHPA			
Rig Bit No:	3	End Depth :	548.00	m	Weight / Visc :	1.06	sg /	92.00	spqt
Hole Size :	311.00 mm	Footage :	212.00	m	Chlorides :	37000	ppm		
Run Start :	29-May-02 03:10	Avg. Flow Rate :	830.00	gpm	PV / YP :	11.00	cp /	21.00	lhf2
Run End :	29-May-02 18:00	Avg. RPM :	69.00	rpm	Solids/Sand :	3.3	% /	0	%
BRT Hrs :	14.82	Avg. WOB :	13.60	klb	%Oil / O:W :	0	% /	0:96.7	
Circ. Hrs :	7.49	Avg. ROP :	58.10	m/hr	pH/Fluid Loss:	9.50	pH /	10.00	mptm
Oper. Hrs :	14.82	Avg. SPP :	1580.00	psig	Max. Temp. :	28.00	degC		

MWD Schematics



8. Pulser
SN: 59420

7. Cross Over Sub
SN: 175215

6. DM
SN: 29034
18.33 m Distance from Bit

5. Cross Over Sub
SN: 43488

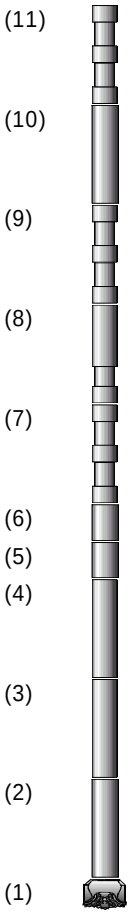
4. HCIM
SN: 100206

3. DGR-DDS
SN: 102971
14.75 m Distance from Bit

2. EWR-P4
SN: 121428
11.83 m Distance from Bit

1. Cross Over Sub
SN: DA8001

BHA Schematics



	Component	Length (m)	O.D. (mm)	I.D. (mm)
11.	30 x HWDP	277.52	127.000	76.200
10.	30 x Drill Pipe	290.24	127.000	108.610
09.	3 x HWDP	27.07	127.000	76.200
08.	Drilling Jars	9.64	203.000	49.000
07.	3 x HWDP	26.95	127.000	76.200
06.	Cross Over Sub	0.97	203.000	49.000
05.	Float Sub	0.70	50.800	25.400
04.	8" MPT w/Dir	6.27	203.000	49.000
03.	8" RLL w/DGR + EWR	6.99	203.000	49.000
02.	8" SperryDrill	9.53	203.200	49.000
01.	Reed MHT13GC	0.34	311.000	1.000

Comments

Drilled from 336.0 to 548.0m MDRT. POOH to change bend in Mud Motor.

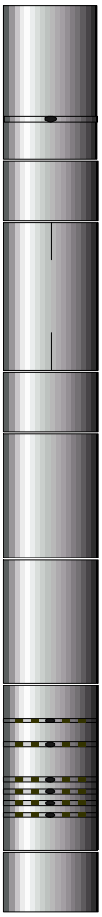
MWD Performance

Tool OD / Type :	203.20	mm/	LWD	
MWD Real-time%	95.00	% /	100.00	%
MWD Recorded%	95.00	% /	100.00	%
Min. Inc. :	10.43	deg/	329.31	m
Max. Inc. :	22.88	deg/	440.15	m
Final Az. :	238.19	deg		
Max Op. Press. :	1260.00	psig		

Bitrun Summary

Run Time Data		Drilling Data			Mud Data				
MWD Run :	0300	Start Depth :	548.00	m	Mud Type :	KCl/PHPA			
Rig Bit No:	3RR	End Depth :	871.00	m	Weight / Visc :	1.06	sg /	54.00	spqt
Hole Size :	311.00 mm	Footage :	323.00	m	Chlorides :	36000	ppm		
Run Start :	29-May-02 18:00	Avg. Flow Rate :	830.00	gpm	PV / YP :	12.00	cp /	24.00	lhf2
Run End :	31-May-02 09:57	Avg. RPM :	55.00	rpm	Solids/Sand :	3.4	% /	0	%
BRT Hrs :	39.97	Avg. WOB :	6.30	klb	%Oil / O:W :	0	% /	0:96.6	
Circ. Hrs :	23.17	Avg. ROP :	34.40	m/hr	pH/Fluid Loss:	9.50	pH /	5.80	mptm
Oper. Hrs :	39.97	Avg. SPP :	1602.00	psig	Max. Temp. :	49.00	degC		

MWD Schematics



8. Pulser
SN: 59420

7. Cross Over Sub
SN: 175215

6. DM
SN: 29034
18.33 m Distance from Bit

5. Cross Over Sub
SN: 43488

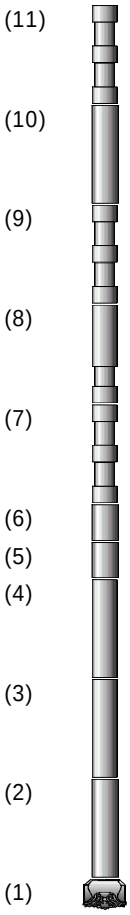
4. HCIM
SN: 100206

3. DGR-DDS
SN: 102971
14.75 m Distance from Bit

2. EWR-P4
SN: 121428
11.83 m Distance from Bit

1. Cross Over Sub
SN: DA8001

BHA Schematics



	Component	Length (m)	O.D. (mm)	I.D. (mm)
11.	24 x HWDP	222.15	127.000	76.200
10.	30 x Drill Pipe	290.24	127.000	108.610
09.	3 x HWDP	27.07	127.000	76.200
08.	Drilling Jars	9.64	203.000	49.000
07.	3 x HWDP	82.14	127.000	76.200
06.	Cross Over Sub	0.97	203.000	49.000
05.	Float Sub	0.70	50.800	25.400
04.	8" MPT w/Dir	6.27	203.000	49.000
03.	8" RLL w/DGR + EWR	6.99	203.000	49.000
02.	8" SperryDrill	9.53	203.200	49.000
01.	Reed MHT13GC	0.34	311.000	1.000

Comments

Tool not read between MWD runs 200 & 300. Drilled from 548.0 to 871.0 mMDRT.
All recorded data recovered at surface.

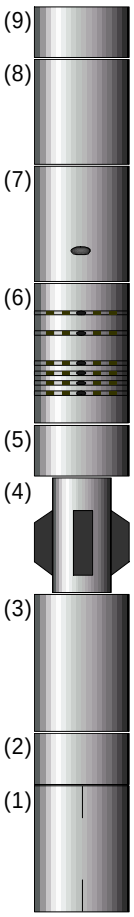
MWD Performance

Tool OD / Type :	203.20	mm/	LWD	
MWD Real-time%	98.00	% /	100.00	%
MWD Recorded%	100.00	% /	100.00	%
Min. Inc. :	29.89	deg/	467.00	m
Max. Inc. :	76.30	deg/	838.16	m
Final Az. :	234.16	deg		
Max Op. Press. :	0.00	psig		

Bitrun Summary

Run Time Data		Drilling Data			Mud Data				
MWD Run :	0400	Start Depth :	871.00	m	Mud Type :	Flo-Pro			
Rig Bit No:	4	End Depth :	1354.00	m	Weight / Visc :	1.16	sg /	64.00	spqt
Hole Size :	216.00 mm	Footage :	483.00	m	Chlorides :	80000	ppm		
Run Start :	01-Jun-02 11:24	Avg. Flow Rate :	580.00	gpm	PV / YP :	12.00	cp /	44.00	lhf2
Run End :	03-Jun-02 13:58	Avg. RPM :	67.00	rpm	Solids/Sand :	6	% /	Tr	%
BRT Hrs :	50.58	Avg. WOB :	8.80	klb	%Oil / O:W :	N/A	% /	N/A/94	
Circ. Hrs :	33.50	Avg. ROP :	28.20	m/hr	pH/Fluid Loss:	9.50	pH /	4.60	mptm
Oper. Hrs :	50.58	Avg. SPP :	2150.00	psig	Max. Temp. :	52.00	degC		

MWD Schematics



(9) 9.Cross Over Sub
SN: 170531

(8) 8.HCIM
SN: 110409

(7) 7.CNP
SN: 117334
20.65 m Distance from Bit

(6) 6.EWR-P4
SN: 81799
17.69 m Distance from Bit

(5) 5.Cross Over Sub
SN: 21692

(4) 4.SLD
SN: 105255
14.89 m Distance from Bit

(3) 3.DGR
SN: 43991
11.69 m Distance from Bit

(2) 2.Cross Over Sub
SN: 170533

(1) 1.PM
SN: 106311
9.07 m Distance from Bit

BHA Schematics

	Component	Length (m)	O.D. (mm)	I.D. (mm)
09.	3 x HWDP	27.77	127.000	76.200
08.	Drilling Jars	9.64	165.000	70.000
07.	3 x HWDP	26.87	127.000	76.200
06.	Float Sub	0.70	165.000	73.000
05.	6-3/4 MPT	3.47	171.450	46.740
04.	6-3/4 RLL w/DGR+EWR+SLD+CN	18.21	171.450	48.510
03.	6-3/4 Dir	2.73	171.450	49.000
02.	6-3/4" SperryDrill	7.49	171.450	70.000
01.	Reed EHP41ALKDH	0.26	216.000	1.000

Comments

Drilled from 871.0 to 1354.0 mMDRT. All recorded data recovered at surface. Decided to drill an open hole sidetrack as Baleen-3ST1 after it was found that a fault had been crossed

MWD Performance

Tool OD / Type :	203.20	mm/	LWD	
MWD Real-time%	100.00	% /	100.00	%
MWD Recorded%	100.00	% /	100.00	%
Min. Inc. :	80.13	deg/	871.00	m
Max. Inc. :	93.74	deg/	1197.69	m
Final Az. :	235.79	deg		
Max Op. Press. :	2570.00	psig		

Directional Survey Data

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	TIE-IN
77.50	0.00	0.00	77.50	0.00 N	0.00 E	0.00	0.00
118.10	0.90	164.57	118.10	0.31 S	0.08 E	0.10	0.67
145.74	1.33	154.26	145.73	0.81 S	0.28 E	0.22	0.51
174.04	1.83	179.78	174.02	1.55 S	0.43 E	0.53	0.90
201.81	2.85	194.07	201.77	2.67 S	0.26 E	1.29	1.26
231.73	5.26	207.31	231.61	4.61 S	0.55 W	3.05	2.57
259.73	5.99	213.87	259.48	6.96 S	1.95 W	5.54	1.04
288.58	7.82	237.78	288.12	9.26 S	4.45 W	8.90	3.51
314.31	9.93	237.31	313.54	11.39 S	7.80 W	12.87	2.46
358.49	12.81	236.62	356.85	16.14 S	15.10 W	21.58	1.95
387.27	15.75	239.15	384.74	19.90 S	21.12 W	28.67	3.14
412.40	19.47	239.20	408.69	23.80 S	27.65 W	36.25	4.44
440.15	22.86	238.19	434.56	29.01 S	36.20 W	46.26	3.68
467.00	29.90	237.39	458.60	35.37 S	46.28 W	58.17	7.87
494.43	34.30	236.43	481.83	43.33 S	58.49 W	72.74	4.85
522.74	38.61	235.90	504.60	52.70 S	72.46 W	89.56	4.58
551.50	43.05	236.97	526.35	63.09 S	88.12 W	108.35	4.69
579.58	44.26	237.77	546.67	73.54 S	104.45 W	127.73	1.42
607.86	48.21	238.45	566.23	84.32 S	121.79 W	148.13	4.22
635.94	50.25	237.31	584.56	95.63 S	139.80 W	169.37	2.37
664.58	52.51	236.35	602.44	107.87 S	158.52 W	191.74	2.50
693.11	56.48	236.02	619.00	120.80 S	177.81 W	214.96	4.19
722.38	60.67	235.89	634.26	134.78 S	198.51 W	239.94	4.29
751.25	65.86	235.69	647.24	149.27 S	219.82 W	265.71	5.40
780.38	70.04	235.69	658.17	164.49 S	242.12 W	292.70	4.31
807.60	74.32	234.67	666.50	179.28 S	263.39 W	318.61	4.83
838.16	76.30	234.16	674.25	196.48 S	287.43 W	348.16	2.01
871.00	80.13	235.16	680.96	215.07 S	313.65 W	380.30	3.61
892.00	86.39	235.63	683.42	226.91 S	330.80 W	401.15	8.97
922.00	90.25	235.91	684.30	243.77 S	355.59 W	431.13	3.87
949.00	91.82	236.21	683.82	258.84 S	377.99 W	458.12	1.78
979.95	92.21	236.89	682.73	275.89 S	403.80 W	489.05	0.76
1007.76	91.20	236.35	681.90	291.19 S	427.01 W	516.84	1.24
1034.80	92.15	236.73	681.11	306.09 S	449.56 W	543.86	1.14
1062.41	92.50	237.85	679.99	321.00 S	472.77 W	571.44	1.28
1089.50	92.11	237.80	678.90	335.41 S	495.68 W	598.49	0.44
1115.30	92.07	238.42	677.96	349.03 S	517.57 W	624.25	0.73
1144.85	92.56	239.09	676.77	364.34 S	542.81 W	653.73	0.84
1170.02	93.23	239.47	675.50	377.18 S	564.42 W	678.81	0.92

Directional Survey Data

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
1197.69	93.74	240.02	673.81	391.10 S	588.28 W	706.36	0.81
1226.26	91.73	238.86	672.45	405.61 S	612.85 W	734.83	2.44
1256.76	89.30	236.89	672.18	421.83 S	638.68 W	765.30	3.08
1285.13	90.07	235.48	672.34	437.61 S	662.25 W	793.67	1.70
1314.20	89.29	235.90	672.50	454.00 S	686.26 W	822.74	0.91
1343.52	88.48	235.79	673.07	470.46 S	710.52 W	852.05	0.83
1352.00	88.48	235.79	673.29	475.23 S	717.53 W	860.53	0.02

Directional Survey Data

CALCULATION BASED ON MINIMUM CURVATURE METHOD

SURVEY COORDINATES RELATIVE TO WELL SYSTEM REFERENCE POINT
TVD VALUES GIVEN RELATIVE TO DRILLING MEASUREMENT POINT

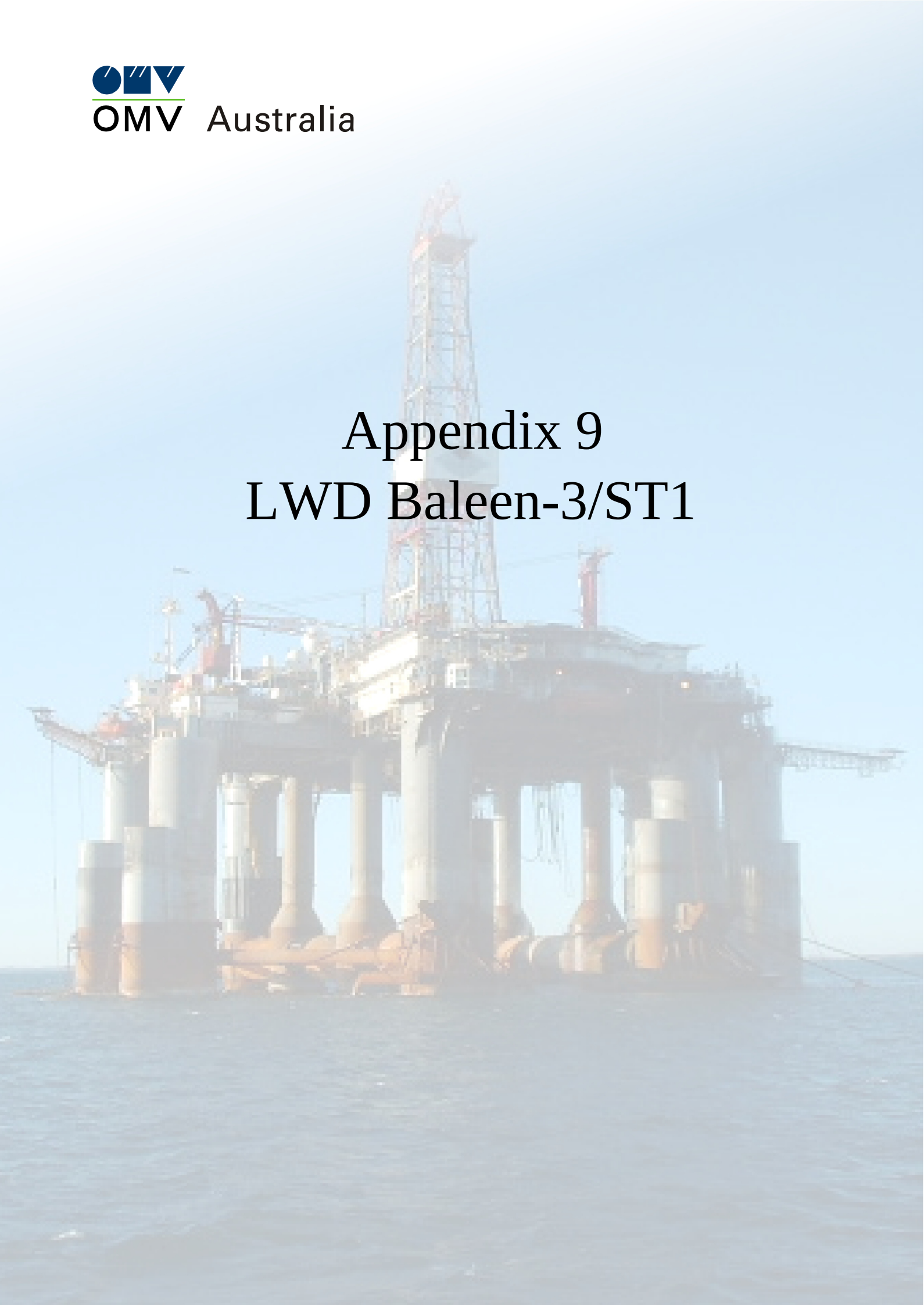
VERTICAL SECTION RELATIVE TO WELL HEAD
VERTICAL SECTION IS COMPUTED ALONG A DIRECTION OF 235.62 DEGREES (GRID)
A TOTAL CORRECTION OF 14.00 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED

HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 1352.00 METRES
IS 860.63 METRES ALONG 236.48 DEGREES (GRID)

Surveys have been SAG corrected where applicable.
Final survey extrapolated to TD.

Sperry-Sun, A Halliburton Company

OMV Australia



Appendix 9
LWD Baleen-3/ST1

sperry-sun
DRILLING SERVICES

End of Well Report
for
OMV

Rig:	Ocean Bounty
Well:	Baleen-3 ST1
Field:	Baleen
Country:	Australia
Job No:	AU-FE-02047
Date:	03-Jun-02
API No:	

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1. General Information

2. Operational Overview

3. Summary of MWD Runs

4. Bitrun Summary

5. Directional Survey Data

General Information

Company:	OMV	
Rig:	Ocean Bounty	
Well:	Baleen-3 ST1	
Field:	Baleen	
Country:	Australia	
API Number:		
Sperry-Sun Job Number:	AU-FE-02047	
Job start date:	03-Jun-02	
Job end date:	05-Jun-02	
North reference:	Grid	
Declination:	13.108	deg
Dip angle:	-68.544	deg
Total magnetic field:	59940.594	nT
Date of magnetic data:	26-May-02	
Wellhead coordinates N:	38 deg. 0 min 20.99 sec South	
Wellhead coordinates E:	148 deg. 26 min 34.42 sec East	
Vertical section direction:	235.617	deg
MWD Engineers:	P. O'Shea	P. Allen
	J. Nicolson	

Company Representatives: R. King

Company Geologist:	P. Boothby	R. Tolliday
Lease Name:	VIC/L21	
Unit Number:	LT1087	
State:	Victoria	
County:		

Operational Overview

Sperry Sun Drilling Services was contracted by OMV to provide Logging While Drilling (LWD) services on the drilling of their well, Baleen-3 ST1. The well was drilled in permit VIC/L21 by Diamond Offshore General Company's rig the Ocean Bounty.

216mm Hole Section:
This section was an open hole sidetrack with a kick-off point at 1137.0 mMDRT from Baleen-3. A Triple Combo suite of 6 ¾" LWD tools were run in this hole section. The toolstring consisted of Dual Gamma Ray (DGR), four phase Electromagnetic Wave Resistivity (EWR-P4)), Stabilised Litho Density (SLD), Compensated Neutron Porosity (CNP) tools that were used for formation evaluation. A Dynamic Drillstring sensor (DDS) was used for vibration detection and drilling optimisation. A Position Monitor (PM) was run for deviation control. The well was drilled in one bit run from 1137.0 to 1555.0 mMDRT. All tools performed well and all recorded data was obtained.

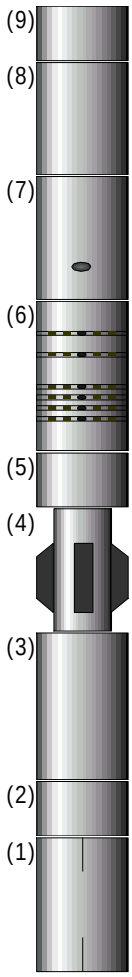
Summary of MWD runs

Run No.	Bit No.	Hole Size (mm)	WDI Sensors	Start Depth (m)	End Depth (m)	Drlg Distance (m)	Run Start Date Time	Run End Date Time	BRT Hrs.	Oper. Hrs.	Circ Hrs.	Max. Temp. (degC)	Serv. Int.	Trip for WD	Failure Type
0100	1	216.00	DGR-EWR-CNP-SLD	1137.00	1555.00	418.00	03-Jun-02 15:17	05-Jun-02 09:55	42.63	42.63	28.53	54.00	No	No	
					TOTALS ====>	418.00			42.63	42.63	28.53		0	0	

Bit Run Summary

Run Time Data		Drilling Data			Mud Data				
MWD Run :	0100	Start Depth :	1137.00	m	Mud Type :	Flo-Pro			
Rig Bit No:	1	End Depth :	1555.00	m	Weight / Visc :	1.18	sg /	64.00	spqt
Hole Size :	216.00 mm	Footage :	418.00	m	Chlorides :	84000	ppm		
Run Start :	03-Jun-02 15:17	Avg. Flow Rate :	580.00	gpm	PV / YP :	12.00	cp /	44.00	lhf2
Run End :	05-Jun-02 09:55	Avg. RPM :	67.00	rpm	Solids/Sand :	7	% /	Tr	%
BRT Hrs :	42.63	Avg. WOB :	8.80	klb	%Oil / O:W :	0	% /	0/93	
Circ. Hrs :	28.53	Avg. ROP :	24.40	m/hr	pH/Fluid Loss :	9.50	pH /	4.60	mptm
Oper. Hrs :	42.63	Avg. SPP :	2150.00	psig	Max. Temp. :	54.00	degC		

MWD Schematics



9. Cross Over Sub
SN: 170531

8. HCIM
SN: 110409

7. CNP
SN: 117334
20.65 m Distance from Bit

6. EWR-P4
SN: 81799
17.69 m Distance from Bit

5. Cross Over Sub
SN: 21692

4. SLD
SN: 105255
14.89 m Distance from Bit

3. DGR
SN: 43991
11.69 m Distance from Bit

2. Cross Over Sub
SN: 170533

1. PM
SN: 106311
9.04 m Distance from Bit

BHA Schematics

	Component	Length (m)	O.D. (mm)	I.D. (mm)
09.	3 x HWDP	27.77	127.000	76.200
08.	Drilling Jars	9.64	165.000	70.000
07.	3 x HWDP	26.87	127.000	76.200
06.	Float Sub	0.70	165.000	73.000
05.	6-3/4 MPT	3.47	171.450	46.740
04.	6-3/4 RLL w/DGR+EWR+SLD+CNP	10.21	171.450	48.510
03.	6-3/4 Dir	2.73	171.450	49.000
02.	6-3/4" SperryDrill	7.49	171.450	70.000
01.	Reed EHP41ALKDH	0.26	216.000	1.000

Comments

Drilled from 1137.0 to TD of 1555.0 mMDRT. All recorded data recovered to surface.

MWD Performance

Tool/CBP Type :	203.20 mm/	LWD	
MWD Real-time % :	100.00 % /	100.00	%
MWD Recorded % :	100.00 % /	100.00	%
Min. Inc. :	75.34 deg/	1372.91	m
Max. Inc. :	95.32 deg/	1546.19	m
Final Az. :	232.23 deg		
Max Op. Press. :	2570.00 psig		

Directional Survey Data

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
1115.30	92.0	238.42	677.96	349.02S	517.58W	624.25	TIE-IN
1144.52	88.9	238.34	677.69	364.34S	542.46W	653.43	3.18
1172.55	87.3	237.92	678.59	379.13S	566.25W	681.42	1.77
1200.16	89.5	236.55	679.32	394.06S	589.46W	709.00	2.83
1228.40	90.6	236.71	679.28	409.60S	613.04W	737.24	1.09
1256.83	88.4	235.98	679.52	425.35S	636.70W	765.66	2.44
1285.69	84.0	235.90	681.43	441.48S	660.55W	794.45	4.58
1315.04	80.7	234.58	685.33	458.06S	684.45W	823.54	3.62
1344.21	77.9	233.45	690.73	474.89S	707.64W	852.19	3.07
1372.91	75.3	232.29	697.36	491.74S	729.91W	880.08	2.97
1401.48	78.0	232.40	703.94	508.73S	751.92W	907.83	2.85
1430.81	81.5	231.28	709.12	526.56S	774.61W	936.63	3.78
1459.63	85.3	232.00	712.40	544.33S	797.06W	965.19	4.00
1488.63	89.8	231.93	713.61	562.18S	819.87W	994.10	4.67
1517.26	93.8	232.08	712.69	579.79S	842.42W	1022.65	4.12
1546.19	95.3	232.23	710.39	597.48S	865.19W	1051.44	1.58
1555.00	95.3	232.23	709.58	602.85S	872.13W	1060.19	0.01

Directional Survey Data

CALCULATION BASED ON MINIMUM CURVATURE METHOD

SURVEY COORDINATES RELATIVE TO WELL SYSTEM REFERENCE POINT
TVD VALUES GIVEN RELATIVE TO DRILLING MEASUREMENT POINT

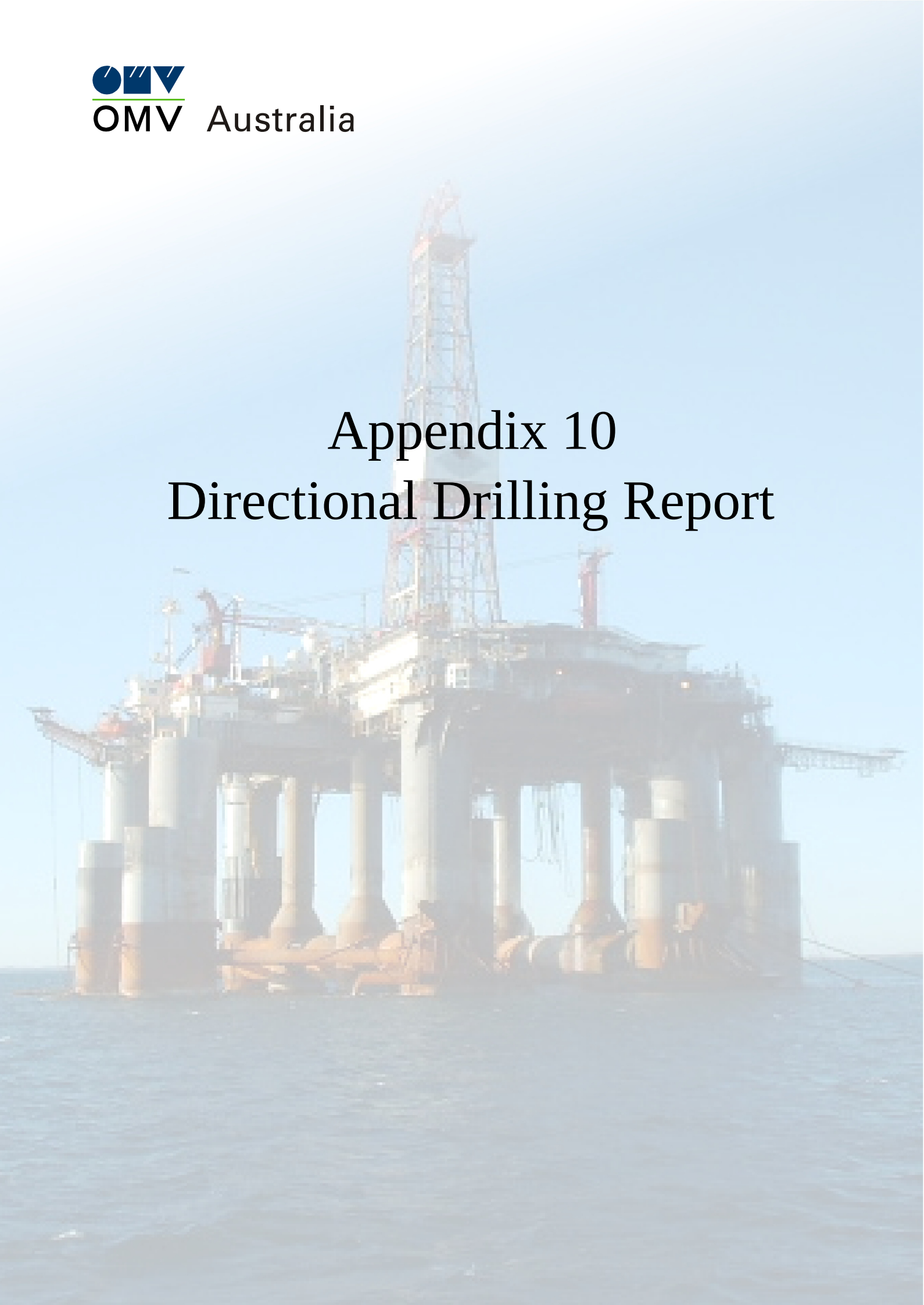
VERTICAL SECTION RELATIVE TO WELL HEAD
VERTICAL SECTION IS COMPUTED ALONG A DIRECTION OF 235.62 DEGREES (GRID)
A TOTAL CORRECTION OF 14.00 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED

HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 1555.00 METRES
IS 1060.21 METRES ALONG 235.35 DEGREES (GRID)

Surveys have been SAG corrected where applicable.
Tied onto survey from Baleen-3 at 1115 mMDRT.
Final survey extrapolated to TD.

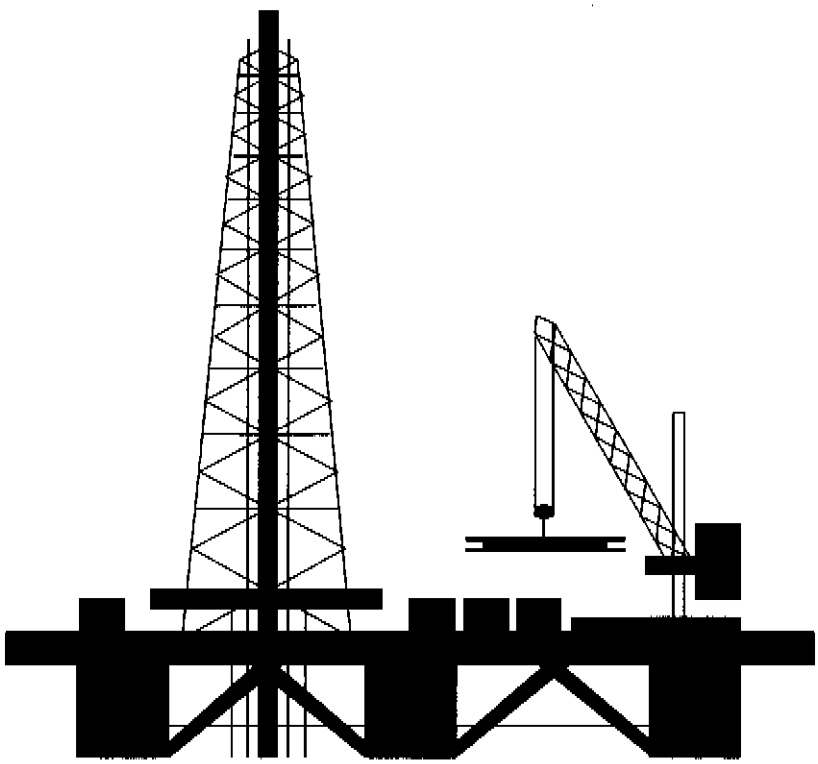
Sperry-Sun, A Halliburton Company

OMV Australia



Appendix 10
Directional Drilling Report

OMV AUSTRALIA PTY. LTD.



DIRECTIONAL DRILLING END OF WELL REPORT

Baleen-3

sperry-sun
DRILLING SERVICES

OMV Australia Pty Ltd
REPORTAIO
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OMV AUSTRALIA PTY. LTD.

WELL : BALEEN #3

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Client : **OMV Australia Pty. Ltd.**

Well Name : **Baleen #3**

Job Objectives:

To drill a horizontal producing well to drain the Baleen gas resevoir.

Summary of Results:

17 1/2" Section
This section was drilled without incident using a 9 5/8" Sperry-drill with a 1.5 degree bent housing. It was built to 10 degrees along 236° azimuth as per proposal.

12 1/4" Section
The first assembly to be run the hole on this section had the bent housing set to 1.15 degrees, this only produced doglegs of 3.5 - 4°/30m. The proposal called for a build rate of 4.1°/30m, so at 458m it was decided to pull out of hole and increase the bend before the well path fell too far behind proposal.
The second assembly with a 1.5 degree bent housing drilled the well to section TD at 871m. This was due to the Gurnard formation coming in 5.35m TVD high. There were no problems during this run except that the dogleg capability of the assembly dropped from 10 - 12°/30m to 5°/30m in the Gurnard. This meant that a more aggressive assembly was needed in the 8 1/2" section than was planned.

8 1/2" Section
The bent housing was set to 1.5 degrees instead of the planned 0.78° due to the need to build at 5°/30m at the start of the section. The well path was built to 90 degrees straight out of the shoe, then built again to 92 degrees. This inclination was held until 1070m. The La Trobe formation was penetrated and it was decided to drill ahead to find the Gurnard again. This was acheived and the inclination was then dropped off in order to stay in the Gurnard as long as possible. However the dip was higher than expected and the cap rock (Lakes Entrance) was penetrated. TD was called at 1352m, it was decided to relog from 1050m to 1200m, then open hole sidetrack.

8 1/2" Section (Sidetrack)
The well was successfully sidetracked in the La Trobe formation at 1137m and then drilled back into the Gurnard. Once in the Gurnard resevoir the well path was geosteered in order to stay in the resevoir for as long as possible. The inclination was dropped off to 75 degrees, at 4°/30m, and then built back up to 95 degrees, again at 4°/30m. The TD was called at 1555m with the well still in the resevoir.
There were no problems at all drilling the sidetrack and at TD the assembly was pulled out of hole to run the sand screens and liner.

Discussion:

BHA #	Bit #	Motor Run #	Hole Size (In)	MD In (m)	MD Out (m)	TVD In (m)	TVD Out (m)	Inc In (deg)	Inc Out (deg)	Azi In (deg)	Azi Out (deg)	Drlg hrs	Circ hrs
1	1		26.000	0	112	0	112	0.0	0.8	0	165	2	1
2	2	1	17.500	112	336	112	335	0.8	11.3	165	237	7	1
3	3	2	12.250	336	458	335	451	11.3	27.5	237	238	5	4
4	3rr1	3	12.250	458	871	451	681	27.5	80.1	238	235	22	5
5	4	4	8.500	871	1352	681	673	80.1	88.2	235	236	27	12
6	4rr1	5	8.500	1137	1555	678	710	89.8	95.8	238	232	25	6

Table 1 - BHA Summary

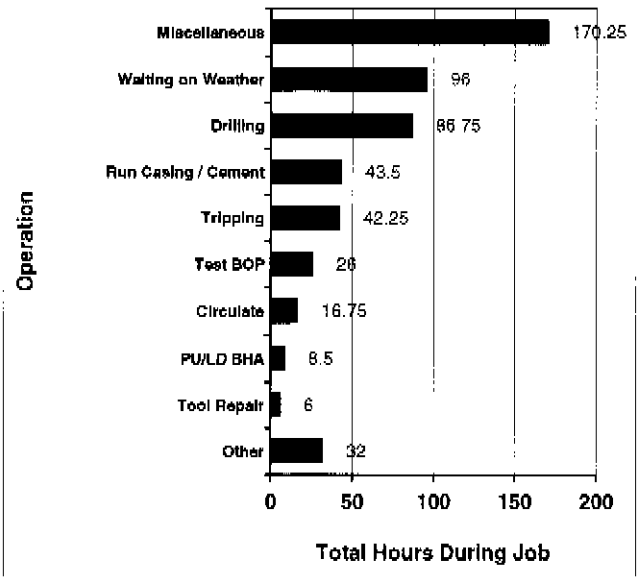
Motor Run #	Manufacturer	Type	Lobe	OD (In)	Gauge (In)	Bend (deg)	Adj	DLS (Ori) (°/30m)	ROP (Ori) (m/hr)	ROP (Rot) (m/hr)
1	SSDS	SperryDrill	6/7	9.625	17.250	1.50	Y	3.00	24	43
2	SSDS	SperryDrill	6/7	8.000	12.125	1.15	Y	3.50	22	32
3	SSDS	SperryDrill	6/7	8.000	12.125		Y	12.00	13	23
4	SSDS	SperryDrill	6/7	6.750	8.250	1.50	Y	12.00	14	18
5	SSDS	SperryDrill	6/7	6.750	8.250	1.50	Y	12.00	11	19

Table 2 - Motor Run Summary

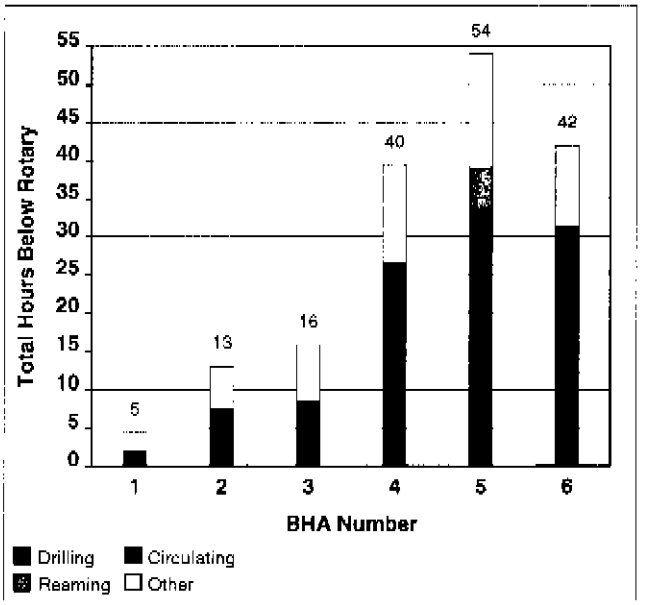
Bit #	Manufacturer	Style	OD (in)	Gge Len (in)	Nozzles (/32's)	TFA (in²)	Dull Grades I O D L B G O R	Ftge (m)	Drlg hrs	ROP (m/hr)
1	Smith	DSJC	26.000		3x18, 1x17	0.967	0-0-NO-A -E-I-NO-TD	112	1.50	75
2	Security DBS	XT1C	17.500		3x24	1.325	1-1-BU-A -E-I-NO-TD	224	6.50	34
3	Reed	MHT13GC	12.250		3x15, 1x24	0.960	0-0-NO-A -E-I-NO-BHA	122	4.75	26
3rr1	Reed	MHT13GC	12.250		3x15, 1x24	0.960	1-2-WT-H -E-2-NO-TD	413	21.50	19
4	Reed	EHP41ALKD H	8.500		3x14	0.451	1-1-WT-A -E-I-ER-LOG	481	27.25	18
4rr1	Reed	EHP41ALKD H	8.500		3x14	0.451	1-2-LT-G -E-I-ER-TD	418	25.25	17

Table 3 - Bit Run Summary

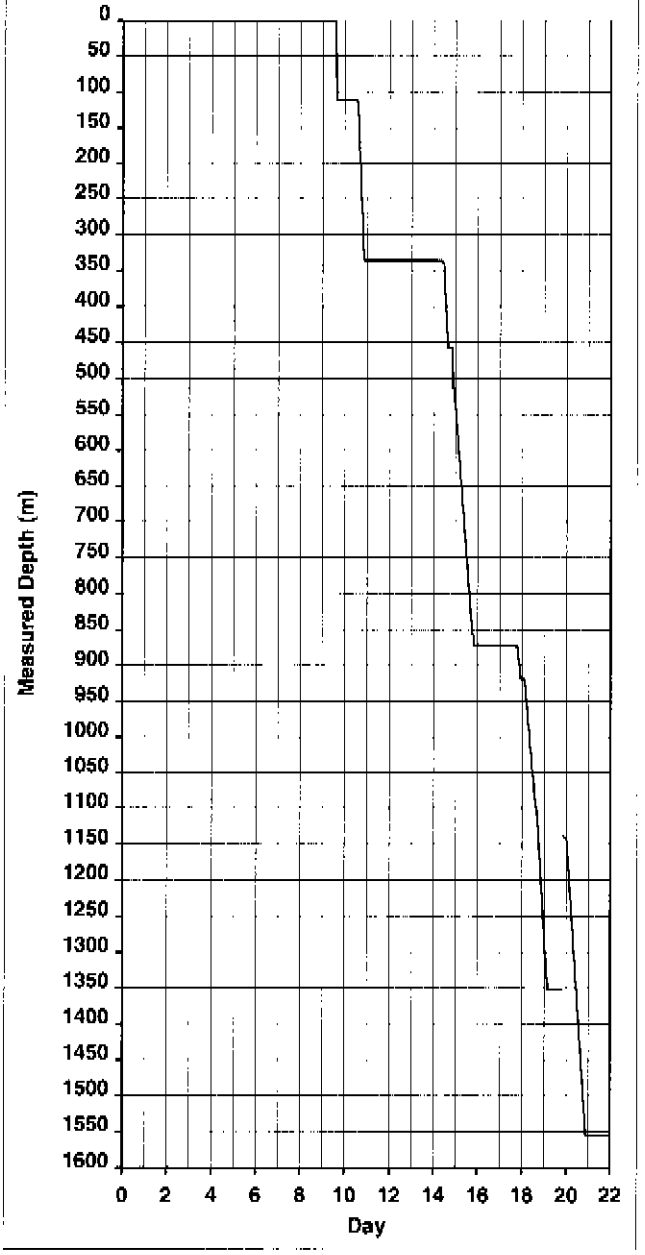
Hours by Operation Summary



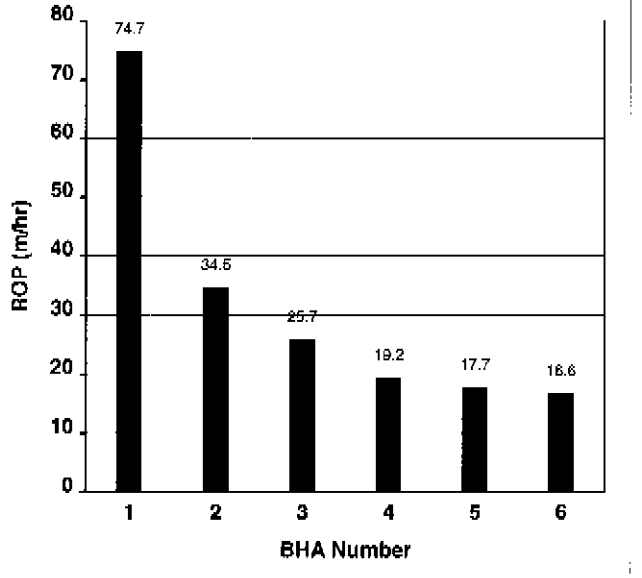
Hours per BHA Breakdown



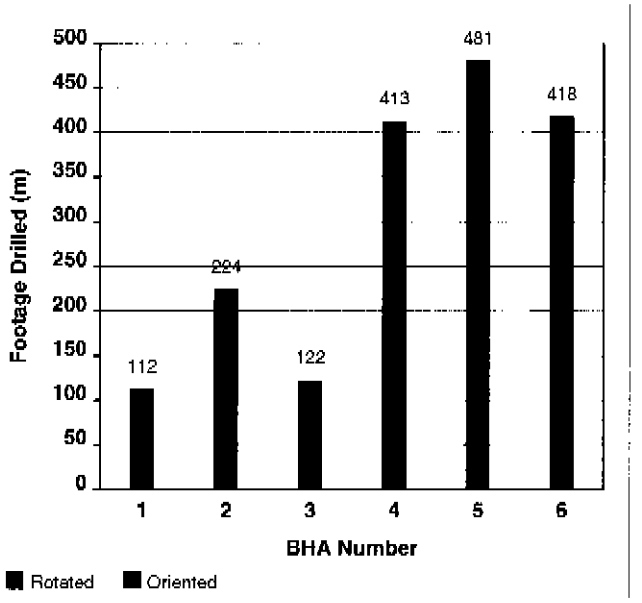
Days vs. Depth



Average Rate of Penetration per BHA



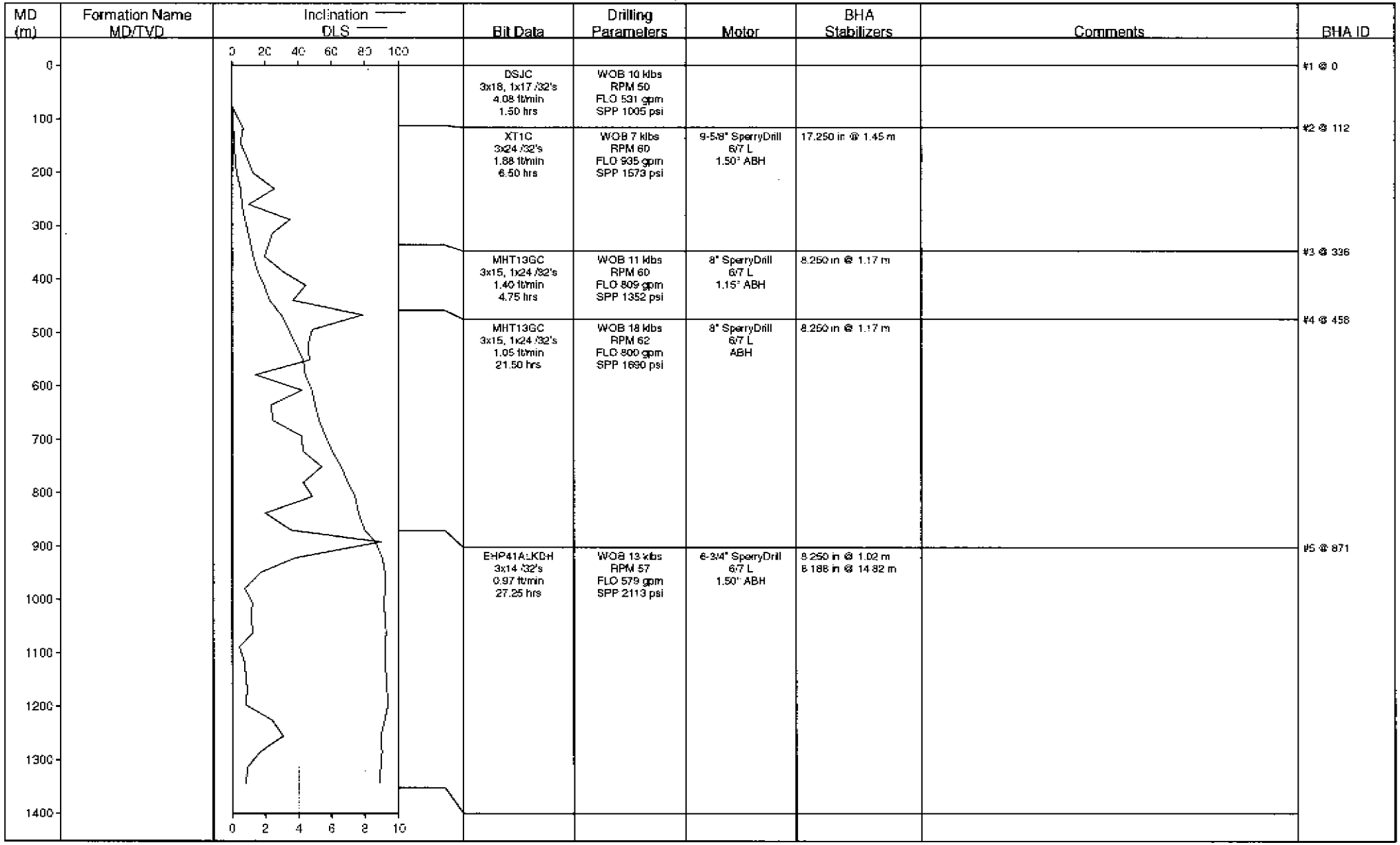
Footage per BHA



Sperry-Sun Drilling Services

OMV Australia Pty. Ltd.
Baleen #3
Ocean Bounty

Vic/L21
Gippsland Sub basin
AU-DD-02023



Sperry-Sun Drilling Services

OMV Australia Pty. Ltd.
Baleen #3
Ocean Bounty

Vic/L21
Gippsland Sub basin
AU-DD-02023 ST1

MD (m)	Formation Name MD/TVD	Inclination / DLS	Bit Data	Drilling Parameters	Motor	BHA Stabilizers	Comments	BHA ID
1125		0 20 40 60 80 100						
1145			EHP41ALKDH 3x14 /32's 0.91 ft/min 25.25 hrs	WOB 17 klbs RPM 50 FLO 596 gpm SPP 2441 psi	6-3/4" SperryDrif 6/7 L 1.50° ABH	8.250 in @ 1.02 m 8.188 in @ 14.62 m	The same BHA will be used to sidetrack the well as run in the original hole.	#6 @ 1137
1165								
1185								
1205								
1225								
1245								
1265								
1285								
1305								
1325								
1345								
1365								
1385								
1405								
1425								
1445								
1465								
1485								
1505								
1525								
1545								
1565		0 1 2 3 4 5						

OMV Australia Pty. Ltd.
Patricia
Baleen #3 : Survey Data

Sperry-Sun

Survey Report

8 July, 2002

Surface Coordinates: 5792541.30 N, 626675.90 E (38° 00' 20.9863" S, 148° 26' 34.4168" E)
Grid Coordinate System: UTM Zone 55S on Australian Geodetic Datum 1966, Meters

Kelly Bushing: 25.00m above Mean Sea Level

Survey Ref: svy5090

HALLIBURTON

Survey Report for Baleen #3 : Survey Data

Measured Depth (m)	Incl. (Deg)	Azim. (Deg)	Station Coordinates TVD (m)	Northings (m)	Eastings (m)	Vertical Section (m)	Dogleg Rate (°/30m)	Comment
0.00	0.000	0.000	0.00	0.00 N	0.00 E	0.00		
77.50	0.000	0.000	77.50	0.00 N	0.00 E	0.00	0.00	
118.10	0.900	164.570	118.10	0.31 S	0.08 E	0.10	0.67	
145.74	1.330	154.260	145.73	0.81 S	0.28 E	0.22	0.51	
174.04	1.827	179.780	174.02	1.55 S	0.43 E	0.52	0.90	
201.81	2.848	194.070	201.77	2.66 S	0.26 E	1.29	1.26	
231.73	5.257	207.710	231.61	4.60 S	0.56 W	3.06	2.58	
259.73	5.985	213.870	259.48	6.95 S	1.97 W	5.55	1.01	
288.58	7.825	237.780	288.12	9.24 S	4.47 W	8.91	3.51	
314.31	9.931	237.310	313.54	11.38 S	7.82 W	12.88	2.46	
327.60	10.795	237.064	326.62	12.67 S	9.83 W	15.27	1.95	13 3/8" Casing
358.49	12.805	236.620	356.85	16.13 S	15.11 W	21.58	1.95	
387.27	15.752	239.150	384.74	19.89 S	21.13 W	28.67	3.14	
412.40	19.473	239.200	408.69	23.78 S	27.66 W	36.26	4.44	
440.15	22.859	238.190	434.56	28.99 S	36.22 W	46.26	3.68	
467.00	29.898	237.390	458.60	35.36 S	46.30 W	58.18	7.87	
494.43	34.300	236.430	481.83	43.32 S	58.50 W	72.74	4.85	
522.74	38.610	235.900	504.60	52.69 S	72.47 W	89.56	4.58	
551.50	43.050	236.970	526.35	63.07 S	88.14 W	108.36	4.69	
579.58	44.260	237.770	546.67	73.52 S	104.46 W	127.73	1.42	
607.86	48.210	238.450	566.23	84.31 S	121.80 W	148.13	4.22	
635.94	50.250	237.310	584.56	95.62 S	139.81 W	169.38	2.37	
664.58	52.510	236.350	602.44	107.86 S	158.54 W	191.75	2.49	
693.11	56.480	236.020	619.01	120.78 S	177.83 W	214.97	4.18	
722.38	60.670	235.890	634.26	134.76 S	198.52 W	239.94	4.30	
751.25	65.860	235.690	647.25	149.26 S	219.83 W	265.71	5.40	
780.38	70.040	235.690	658.18	164.47 S	242.13 W	292.71	4.30	
807.60	74.320	234.670	666.51	179.27 S	263.40 W	318.61	4.84	
838.16	76.300	234.160	674.26	196.47 S	287.44 W	348.17	2.00	
866.00	79.547	235.009	680.08	212.24 S	309.62 W	375.38	3.61	9 5/8" Casing
871.00	80.130	235.160	680.96	215.06 S	313.66 W	380.30	3.61	
892.00	86.390	235.630	683.43	226.90 S	330.81 W	401.15	8.97	
922.00	90.250	235.910	684.31	243.76 S	355.60 W	431.13	3.87	
949.00	91.820	236.210	683.82	258.83 S	378.00 W	458.12	1.78	
979.95	92.210	236.890	682.73	275.88 S	403.81 W	489.05	0.76	
1007.76	91.200	236.350	681.90	291.18 S	427.02 W	516.84	1.24	
1034.80	92.150	236.730	681.11	306.08 S	449.57 W	543.87	1.14	
1062.41	92.500	237.850	679.99	320.99 S	472.78 W	571.44	1.27	
1089.50	92.110	237.800	678.90	335.40 S	495.69 W	598.49	0.44	
1115.30	92.070	238.420	677.96	349.02 S	517.58 W	624.25	0.72	
1144.85	92.560	239.090	676.77	364.34 S	542.82 W	653.73	0.84	
1170.02	93.230	239.470	675.50	377.18 S	564.43 W	678.82	0.92	
1197.69	93.740	240.020	673.82	391.09 S	588.29 W	706.36	0.81	
1226.26	91.730	238.860	672.45	405.60 S	612.86 W	734.84	2.44	
1256.76	89.300	236.890	672.18	421.82 S	638.69 W	765.31	3.08	
1285.13	90.070	235.480	672.33	437.60 S	662.26 W	793.67	1.70	
1314.20	89.290	235.900	672.50	453.99 S	686.27 W	822.74	0.91	
1343.52	88.480	235.790	673.07	470.45 S	710.53 W	852.06	0.84	

Survey Report for Baleen #3 : Survey Data

All data is in Metres unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to Well. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 30 metres.
Vertical Section is from Well and calculated along an Azimuth of 235.617° (Grid).

Coordinate System is UTM Zone 55S on Australian Geodetic Datum 1966, Meters.
Grid Convergence at Surface is -0.889°. Magnetic Convergence at Surface is -13.987° (06-Jun-02)

Based upon Minimum Curvature type calculations, at a Measured Depth of 1343.52m.,
The Bottom Hole Displacement is 852.16m., in the Direction of 236.491° (Grid).

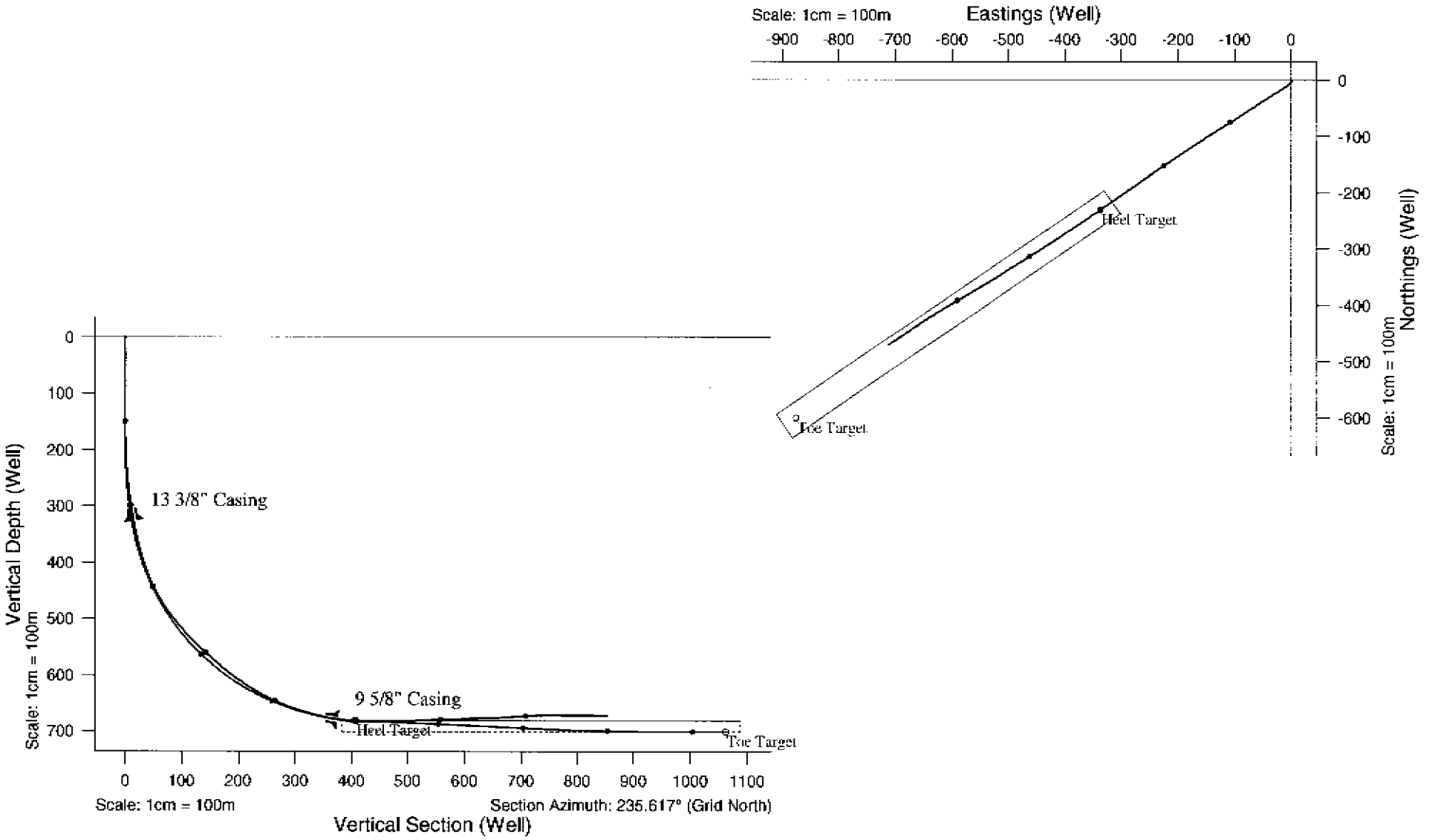
Casing depths are provisional and should only be used as a guide.

Casing details

From		To		
Measured Depth (m)	Vertical Depth (m)	Measured Depth (m)	Vertical Depth (m)	Casing Detail
<Surface>	<Surface>	327.60	326.62	13 3/8" Casing
<Surface>	<Surface>	866.00	680.08	9 5/8" Casing

HALLIBURTON | OMV Australia Pty. Ltd. | DrillQuest Sperry-Sun

Well : Baleen #3



OMV Australia Pty. Ltd.
Patricia
Baleen #3 ST1 : Survey Data

Sperry-Sun

Survey Report

8 July, 2002

Surface Coordinates: 5792541.30 N, 626675.90 E (38° 00' 20.9863" S, 148° 26' 34.4168" E)
Grid Coordinate System: UTM Zone 55S on Australian Geodetic Datum 1966, Meters

Kelly Bushing: 25.00m above Mean Sea Level

Survey Ref: svy5091

HALLIBURTON

Survey Report for Baleen #3

Measured Depth (m)	Incl. (Deg)	Azim. (Deg)	Station Coordinates TVD (m)	Northings (m)	Eastings (m)	Vertical Section (m)	Dogleg Rate (°/30m)	Comment
Baleen #3 : Survey Data								
0.00	0.000	0.000	0.00	0.00 N	0.00 E	0.00		
77.50	0.000	0.000	77.50	0.00 N	0.00 E	0.00	0.00	
118.10	0.900	164.570	118.10	0.31 S	0.08 E	0.10	0.67	
145.74	1.330	154.260	145.73	0.81 S	0.28 E	0.22	0.51	
174.04	1.827	179.780	174.02	1.55 S	0.43 E	0.52	0.90	
201.81	2.848	194.070	201.77	2.66 S	0.26 E	1.29	1.26	
231.73	5.257	207.710	231.61	4.60 S	0.56 W	3.06	2.58	
259.73	5.985	213.870	259.48	6.95 S	1.97 W	5.55	1.01	
288.58	7.825	237.780	288.12	9.24 S	4.47 W	8.91	3.51	
314.31	9.931	237.310	313.54	11.38 S	7.82 W	12.88	2.46	
327.60	10.795	237.064	326.62	12.67 S	9.83 W	15.27	1.95	13 3/8" Casing
358.49	12.805	236.620	356.85	16.13 S	15.11 W	21.58	1.95	
387.27	15.752	239.150	384.74	19.89 S	21.13 W	28.67	3.14	
412.40	19.473	239.200	408.69	23.78 S	27.66 W	36.26	4.44	
440.15	22.859	238.190	434.56	28.99 S	36.22 W	46.26	3.68	
467.00	29.898	237.390	458.60	35.36 S	46.30 W	58.18	7.87	
494.43	34.300	236.430	481.83	43.32 S	58.50 W	72.74	4.85	
522.74	38.610	235.900	504.60	52.69 S	72.47 W	89.56	4.58	
551.50	43.050	236.970	526.35	63.07 S	88.14 W	108.36	4.69	
579.58	44.260	237.770	546.67	73.52 S	104.46 W	127.73	1.42	
607.86	48.210	238.450	566.23	84.31 S	121.80 W	148.13	4.22	
635.94	50.250	237.310	584.56	95.62 S	139.81 W	169.38	2.37	
664.58	52.510	236.350	602.44	107.86 S	158.54 W	191.75	2.49	
693.11	56.480	236.020	619.01	120.78 S	177.83 W	214.97	4.18	
722.38	60.670	235.890	634.26	134.76 S	198.52 W	239.94	4.30	
751.25	65.860	235.690	647.25	149.26 S	219.83 W	265.71	5.40	
780.38	70.040	235.690	658.18	164.47 S	242.13 W	292.71	4.30	
807.60	74.320	234.670	666.51	179.27 S	263.40 W	318.61	4.84	
838.16	76.300	234.160	674.26	196.47 S	287.44 W	348.17	2.00	
866.00	79.547	235.009	680.08	212.24 S	309.62 W	375.38	3.61	9 5/8" Casing
871.00	80.130	235.160	680.96	215.06 S	313.66 W	380.30	3.61	
892.00	86.390	235.630	683.43	226.90 S	330.81 W	401.15	8.97	
922.00	90.250	235.910	684.31	243.76 S	355.60 W	431.13	3.87	
949.00	91.820	236.210	683.82	258.83 S	378.00 W	458.12	1.78	
979.95	92.210	236.890	682.73	275.88 S	403.81 W	489.05	0.76	
1007.76	91.200	236.350	681.90	291.18 S	427.02 W	516.84	1.24	
1034.80	92.150	236.730	681.11	306.08 S	449.57 W	543.87	1.14	
1062.41	92.500	237.850	679.99	320.99 S	472.78 W	571.44	1.27	
1089.50	92.110	237.800	678.90	335.40 S	495.69 W	598.49	0.44	
1115.30	92.070	238.420	677.96	349.02 S	517.58 W	624.25	0.72	Sidetrack Point
Baleen #3 ST1 : Survey Data								
1144.52	88.970	238.340	677.70	364.34 S	542.46 W	653.43	3.18	
1172.55	87.370	237.920	678.59	379.13 S	566.25 W	681.42	1.77	
1200.16	89.590	236.550	679.32	394.06 S	589.46 W	709.00	2.83	
1228.40	90.600	236.710	679.28	409.60 S	613.04 W	737.24	1.09	
1256.83	88.410	235.980	679.52	425.35 S	636.70 W	765.66	2.44	

Survey Report for Baleen #3

Measured Depth (m)	Incl. (Deg)	Azim. (Deg)	Station Coordinates TVD (m)	Northings (m)	Eastings (m)	Vertical Section (m)	Dogleg Rate (°/30m)	Comment
1285.69	84.010	235.900	681.43	441.48 S	660.55 W	794.45	4.57	
1315.04	80.720	234.580	685.33	458.06 S	684.45 W	823.54	3.62	
1344.21	77.950	233.450	690.73	474.90 S	707.64 W	852.19	3.07	
1372.91	75.340	232.290	697.36	491.75 S	729.90 W	880.08	2.97	
1401.48	78.050	232.400	703.93	508.73 S	751.91 W	907.83	2.85	
1430.81	81.580	231.280	709.12	526.57 S	774.61 W	936.63	3.78	
1459.63	85.350	232.000	712.40	544.33 S	797.06 W	965.19	3.99	
1488.63	89.870	231.930	713.60	562.18 S	819.87 W	994.10	4.68	
1517.26	93.800	232.080	712.69	579.79 S	842.42 W	1022.65	4.12	
1546.19	95.320	232.230	710.39	597.49 S	865.19 W	1051.44	1.58	

All data is in Metres unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to Well. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 30 metres.
Vertical Section is from Well and calculated along an Azimuth of 235.617° (Grid).

Coordinate System is UTM Zone 55S on Australian Geodetic Datum 1966, Meters.
Grid Convergence at Surface is -0.889°. Magnetic Convergence at Surface is -13.987° (06-Jun-02)

Based upon Minimum Curvature type calculations, at a Measured Depth of 1546.19m.,
The Bottom Hole Displacement is 1051.45m., in the Direction of 235.372° (Grid).

Casing depths are provisional and should only be used as a guide.

Comments

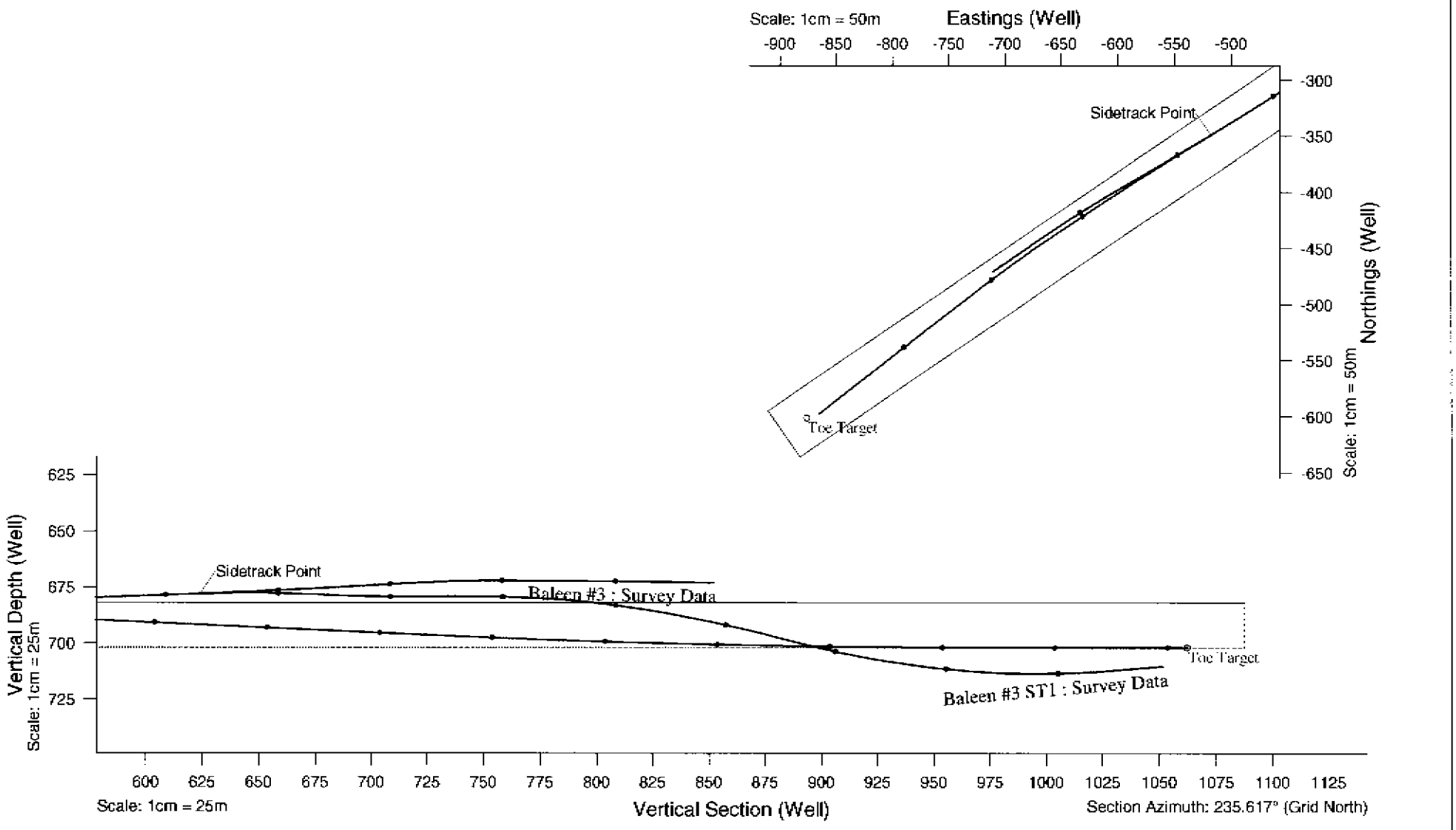
Measured Depth (m)	Station Coordinates TVD (m)	Northings (m)	Eastings (m)	Comment
1115.30	677.96	349.02 S	517.58 W	Sidetrack Point

Casing details

From Measured Depth (m)	From Vertical Depth (m)	To Measured Depth (m)	To Vertical Depth (m)	Casing Detail
<Surface>	<Surface>	327.60	326.62	13 3/8" Casing
<Surface>	<Surface>	866.00	680.08	9 5/8" Casing

HALLIBURTON | OMV Australia Pty. Ltd. | DrillQuest Sperry-Sun

Well : Baleen #3



sperry-sun
DRILLING SERVICES
Survey and Drilling Parameters

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Rig : Ocean Bounty

Block : Vic/L21
Location : Gippsland Sub basin
Job # : AU-DD-02023

North Ref : Grid **Declination :** ° **VS Dir :** 235.61° (from Wellhead)

WELLBORE SURVEY										DRILLING PARAMETERS									
Measured Depth (m)	Incl Angle (deg)	Azi Dir (deg)	Vertical Depth (m)	Vertical Section (m)	Coordinates N/S (m)	Coordinates E/W (m)	DLS (°/30m)	Build Rate (°/30m)	Turn Rate (°/30m)	WOB (klbs)	RPM	Flow Rate (gpm)	Stand Pipe (psi)	Orientation From (m)	Orientation To (m)	Tool Face (deg)	ROP (m/hr)	BHA No. (#)	Comment
0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00									1	Tieon
77.50	0.00	0.00	77.5	0.0	0.0	0.0	0.00	0.00	0.00	10	50	525	1000				35	1	
118.10	0.90	164.57	118.1	0.1	-0.3	0.1	0.67	0.67	0.00	5	60	940	1350				90	2	
145.74	1.33	154.26	145.7	0.2	-0.8	0.3	0.51	0.47	0.00	5	60	940	1350				90	2	
174.04	1.83	179.78	174.0	0.5	-1.6	0.4	0.90	0.53	27.05	6		750	1090	173	174	125L	70	2	
201.81	2.85	194.07	201.8	1.3	-2.7	0.3	1.26	1.10	15.44	8	60	750	1080	174	192	125L	100	2	
231.73	5.26	207.71	231.6	3.1	-4.6	-0.6	2.59	2.42	13.68	10		900	1550	214	232	118L	60	2	
259.73	5.99	213.87	259.5	5.6	-7.0	-2.0	1.01	0.78	6.60	4	60	1020	1880	232	242	118L	70	2	
288.58	7.82	237.78	288.1	8.9	-9.2	-4.5	3.50	1.90	24.86	10		1025	1950	267	289	60R	30	2	
314.31	9.93	237.31	313.5	12.9	-11.4	-7.8	2.46	2.46	-0.55	10		1025	2000	289	308	60R	30	2	
														308	314	90L		2	
358.49	12.81	236.62	356.9	21.6	-16.1	-15.1	1.96	1.96	-0.47	10	60	800	1250	314	320	90L	100	3	
														340	357	20R		3	
387.27	15.75	239.15	384.7	28.7	-19.9	-21.1	3.13	3.06	2.64	12		800	1260	377	387	HS	68	3	
412.40	19.47	239.20	408.7	36.3	-23.8	-27.7	4.44	4.44	0.06	6	60	800	1200	387	403	HS	80	3	
440.15	22.86	238.19	434.6	46.3	-29.0	-36.2	3.69	3.66	-1.09	15		800	1680	416	431	30L	33	3	
														437	440	15L		3	
467.00	29.90	237.39	458.6	58.2	-35.4	-46.3	7.88	7.87	-0.89	15		800	1680	440	467	15L	33	4	
494.43	34.30	236.43	481.8	72.7	-43.3	-58.5	4.84	4.81	-1.05	12	60	800	1700	467	477	15L	56	4	
														486	493	10L		4	
522.74	38.61	235.90	504.6	89.6	-52.7	-72.5	4.58	4.57	-0.56	10	60	800	1500	507	520	HS	34	4	
551.50	43.05	236.97	526.4	108.4	-63.1	-88.1	4.69	4.63	1.12	20	60	800	1570	534	546	15R	20	4	
579.58	44.26	237.77	546.7	127.7	-73.5	-104.5	1.42	1.29	0.85	20	60	800	1570				20	4	
607.86	48.21	238.45	566.2	148.1	-84.3	-121.8	4.22	4.19	0.72	15		800	1570	598	608	HS	19	4	
635.94	50.25	237.31	584.6	169.4	-95.6	-139.8	2.37	2.18	-1.22	12	70	800	1660	608	609	HS	35	4	
														626	632	90L		4	
664.58	52.51	236.35	602.4	191.8	-107.9	-158.5	2.49	2.37	-1.01	20	70	800	1700	654	663	50L	55	4	
693.11	56.48	236.02	619.0	215.0	-120.8	-177.8	4.18	4.17	-0.35	20		800	1700	683	691	20L	22	4	
														692	693	20L		4	

Sperry-Sun DRILLING SERVICES

Survey and Drilling Parameters

Client : OMV Australia Pty. Ltd. **Block :** Vic/L21

Well Name : Baleen #3 **Location :** Gippsland Sub basin

Rig : Ocean Bounty **Job # :** AU-DD-02023

North Ref : Grid **Declination :** ° **VS Dir :** 235.61° (from Wellhead)

WELLBORE SURVEY										DRILLING PARAMETERS									
Measured Depth (m)	Incl Angle (deg)	Azi Dir (deg)	Vertical Depth (m)	Vertical Section (m)	Coordinates N/S (m)	Coordinates E/W (m)	DLS (°/30m)	Build Rate (°/30m)	Turn Rate (°/30m)	WOB (klbs)	RPM	Flow Rate (gpm)	Stand Pipe (psi)	Orientation From (m)	Orientation To (m)	Tool Face (deg)	ROP (m/hr)	BHA No. (#)	Comment
722.38	60.67	235.89	634.3	239.9	-134.8	-198.5	4.30	4.29	-0.13	6	60	800	1650	693	695	20L	25	4	
														708	720	20L		4	
751.25	65.86	235.69	647.2	265.7	-149.3	-219.8	5.40	5.39	-0.21	25	60	800	1770	732	745	20L	100	4	
780.38	70.04	235.69	658.2	292.7	-164.5	-242.1	4.30	4.30	0.00	12	60	800	1750	757	769	14L	45	4	
807.60	74.32	234.67	666.5	318.6	-179.3	-263.4	4.84	4.72	-1.12	20	60	800	1800	788	800	10L	70	4	
838.16	76.30	234.16	674.3	348.2	-196.5	-287.4	2.00	1.94	-0.50	10	60	800	1950	816	828	10L	35	4	
871.00	80.13	235.16	681.0	380.3	-215.1	-313.7	3.61	3.50	0.91	15		450	1350	845	863	HS	35	5	
														868	871	HS		5	
892.00	86.39	235.68	683.4	401.2	-226.9	-330.8	8.97	8.94	0.74	20	50	500	1480	871	890	HS	12	5	
922.00	90.25	235.91	684.3	431.1	-243.7	-355.6	3.87	3.86	0.23	15		550	1730	904	910	HS	10	5	
														919	922	HS		5	
949.00	91.82	236.21	683.8	458.1	-258.8	-378.0	1.78	1.74	0.33	20	50	550	1800	922	924	HS	18	5	
														942	944	HS		5	
979.95	92.21	236.89	682.7	489.1	-275.9	-403.8	0.76	0.38	0.66	20	50	550	1800				18	5	
1007.76	91.20	236.35	681.9	516.8	-291.2	-427.0	1.24	-1.09	-0.58	10	50	550	1840	1005	1007	50L	60	5	
1034.80	92.15	236.73	681.1	543.9	-306.1	-449.6	1.14	1.05	0.42	4	60	600	2020				17	5	
1062.41	92.50	237.85	680.0	571.4	-321.0	-472.8	1.27	0.38	1.22	10	60	600	2150				50	5	
1089.50	92.11	237.80	678.9	598.5	-335.4	-495.7	0.44	-0.43	-0.06	5	60	600	2120				30	5	
1115.30	92.07	238.42	678.0	624.3	-349.0	-517.6	0.72	-0.05	0.72	10	60	600	2100				30	5	
1144.85	92.56	239.09	676.8	653.7	-364.3	-542.8	0.84	0.50	0.68	10	60	600	2100				30	5	
1170.02	93.23	239.47	675.5	678.8	-377.2	-564.4	0.92	0.80	0.45	10	60	600	2350				50	5	
1197.69	93.74	240.02	673.8	706.4	-391.1	-588.3	0.81	0.55	0.60	10	60	600	2350				50	5	
1226.26	91.73	238.86	672.5	734.8	-405.6	-612.9	2.44	-2.11	-1.22	6	60	600	2375	1212	1221	140L	32	5	
1256.76	89.30	236.89	672.2	765.3	-421.8	-638.7	3.08	-2.39	-1.94	8	60	600	2380	1238	1249	130L	45	5	
1285.13	90.07	235.48	672.3	793.7	-437.6	-662.3	1.70	0.81	-1.49	8	60	600	2540	1266	1271	90L	28	5	
1314.20	89.29	235.90	672.5	822.7	-454.0	-686.3	0.91	-0.80	0.43	8	60	600	2540				28	5	
1343.52	88.48	235.79	673.1	852.1	-470.4	-710.5	0.84	-0.83	-0.11	10	60	600	2500	1324	1328	30L	30	5	

Sperry-Sun DRILLING SERVICES

Survey and Drilling Parameters

Client : OMV Australia Pty. Ltd. **Block :** Vic/L21
Well Name : Baleen #3 ST1 **Location :** Gippsland Sub basin
Rig : Ocean Bounty **Job # :** AU-DD-02023
North Ref : Grid **Declination :** ° **VS Dir :** 235.61° (from Wellhead)

WELLBORE SURVEY										DRILLING PARAMETERS									
Measured Depth (m)	Incl Angle (deg)	Azi Dir (deg)	Vertical Depth (m)	Vertical Section (m)	Coordinates N/S (m)	Coordinates E/W (m)	DLS (°/30m)	Build Rate (°/30m)	Turn Rate (°/30m)	WOB (klbs)	RPM	Flow Rate (gpm)	Stand Pipe (psi)	Orientation From (m)	Orientation To (m)	Tool Face (deg)	ROP (m/hr)	BHA No. (#)	Comment
1115.30	92.07	238.42	678.0	624.2	-349.0	-517.6	0.00	0.00	0.00	10	60	600	2100				30		Tieon ST1
1144.52	88.97	238.34	677.7	653.4	-364.3	-542.5	3.18	-3.18	-0.08	8	50	600	2350	1137	1144	170L	60	6	
1172.55	87.37	237.92	678.6	681.4	-379.1	-566.2	1.77	-1.71	-0.45	10	50	600	2370	1154	1160	145L	38	6	
1200.16	89.59	236.55	679.3	709.0	-394.1	-589.5	2.83	2.41	-1.49	10	50	600	2430	1182	1189	140L	48	6	
														1189	1193	HS		6	
1228.40	90.60	236.71	679.3	737.2	-409.6	-613.0	1.09	1.07	0.17	10	50	600	2430				48	6	
1256.83	88.41	235.98	679.5	765.7	-425.4	-636.7	2.44	-2.31	-0.77	10	50	600	2400	1238	1247	155L	32	6	
1285.69	84.01	235.90	681.4	794.5	-441.5	-660.6	4.57	-4.57	-0.08	10	50	600	2400	1268	1281	155L	32	6	
1315.04	80.72	234.58	685.3	823.5	-458.1	-684.4	3.62	-3.36	-1.35	10	50	600	2450	1295	1305	140L	40	6	
1344.21	77.95	233.45	690.7	852.2	-474.9	-707.6	3.07	-2.85	-1.16	10	50	600	2400	1324	1334	150L	30	6	
1372.91	75.34	232.29	697.4	880.1	-491.8	-729.9	2.97	-2.73	-1.21	10	50	600	2450	1353	1361	150L	35	6	
1401.48	78.05	232.40	703.9	907.8	-508.7	-751.9	2.85	2.85	0.12	10	50	600	2550	1390	1398	HS	40	6	
1430.81	81.58	231.28	709.1	936.6	-526.6	-774.6	3.78	3.61	-1.15	8	50	600	2475	1411	1422	HS	40	6	
1459.63	85.35	232.00	712.4	965.2	-544.3	-797.1	3.99	3.92	0.75	10	50	600	2500	1440	1451	5R	60	6	
1488.63	89.87	231.93	713.6	994.1	-562.2	-819.9	4.68	4.68	-0.07	10	50	570	2350	1469	1480	10R	40	6	
1517.26	93.80	232.08	712.7	1022.7	-579.8	-842.4	4.12	4.12	0.16	30	50	605	2550	1502	1513	HS	35	6	
1546.19	95.32	232.23	710.4	1051.4	-597.5	-865.2	1.58	1.58	0.16	15	50	605	2570	1526	1530	HS	32	6	

sperry-sun
DRILLING SERVICES

BHA Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

BHA# 1

BHA# 1 : Date In 24/05/200 MD In (m) : 0 TVD In (m) : 0 Date Out 24/05/200 MD Out (m): 112 TVD Out (m): 112

BIT DATA

Bit #	OD (in)	MFR	Style	Serial#	Nozzles (/32's)	TFA (In²)	Dull Condition
1	26.000	Smith	DSJC	KP2374	3x18, 1x17	0.967	0-0-NO-A -E-I-NO-TD

MOTOR DATA

Run #	OD (in)	MFR	Model	Serial#	Bend	Nzl (/32's)	Avg Dif (psi)	Cum Circ Hrs

COMPONENT DATA

Item #	Description	Serial #	OD (in)	ID (in)	Gauge (in)	Weight (lbs/ft)	Top Con	Length (m)	Bit - Center Blade (m)
1	26" Milled Tooth Bit	KP2374	26.000		26.000		P 7-5/8" Reg	0.62	
2	36" Hole Opener	46367	9.500	3.000	36.000	217.48	P 7-5/8" Reg	2.22	
3	9½" Bit Sub w/totco ring	975	9.500	3.000		217.48	B 7-5/8" Reg	0.97	
4	3 x 9½" Spiral Drill collars		9.500	3.000		217.00	B 7-5/8" Reg	27.85	
5	Cross Over Sub	144-211	9.500	3.000		217.48	B 6-5/8" Reg	1.17	
6	3 x 8" Spiral Drill collars		8.000	2.810		150.00	B 6-5/8" Reg	28.44	
7	Cross Over Sub	144-204	8.000	2.880		149.10	B 4-1/2" IF	0.97	
8	9 x 5" HWDP		5.000	3.000		49.30	B 4-1/2" IF	84.59	
								146.83	

Parameter		Min	Max	Ave
WOB (klbs)	:	5	10	10
RPM (rpm)	:	50	60	50
Flow (gpm)	:	525	940	531
SPP (psi)	:	1000	1350	1005

Activity	Hrs
Drilling :	1.50
Reaming :	0.00
Circ-Other :	0.50
Total :	2.00

BHA Weight	(lb)
in Air (Total) :	
In Mud (Total) :	
in Air (Bel Jars) :	0
In Mud (Bel Jars) :	0

Drill String	OD(in)	Len(m)

PERFORMANCE

	In	Out
Inclination (deg)	0.00	0.76
Azimuth (deg)	0.00	164.57

	Distance(m)	ROP (m/hr)	Build (°/30m)	Turn (°/30m)	DLS (°/30m)
Oriented :	77.50	0			
Rotated :	34.50	75			
Total :	112.00	75	0.20	0.00	0.20

COMMENTS

OBJECTIVES:

Spud well and drill 36" hole vertically to 113m MD

RESULTS:

Make up 36" hole opener assembly and RIH. Tagged seabed at 77.5m and drilled to 111.5m. Made a wiper trip to just below seabed and ran back to bottom, washing the last 2m of fill. Spotted a 200 bbl prehydrated gell pill then dropped a totco survey prior to POOH. Survey showed ½° inclination.

RECOMMENDATIONS:

No problems encountered with the spud assembly.

sperry-sun
DRILLING SERVICES

BHA Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

BHA# 2

BHA# 2 : Date In 25/05/200 MD In (m) : 112 TVD In (m) : 112 Date Out 25/05/200 MD Out (m): 336 TVD Out (m): 335

BIT DATA

Bit #	OD (in)	MFR	Style	Serial#	Nozzles (/32's)	TFA (in²)	Dull Condition
2	17.500	Security DBS	XT1C	740844	3x24	1.325	1-1-BU-A -E-I-NO-TD

MOTOR DATA

Run #	OD (in)	MFR	Model	Serial#	Bend	Nzl (/32's)	Avg Dif (psi)	Cum Circ Hrs
1	9.625	SSDS	SperryDrill	963212	1.50°		51	7.50

COMPONENT DATA

Item #	Description	Serial #	OD (in)	ID (in)	Gauge (in)	Weight (lbs/ft)	Top Con	Length (m)	Bit - Center Blade (m)
1	17½" Milled Tooth Bit	740844	17.500		17.500	333.00	P 7-5/8" Reg	0.42	
2	9-5/8" SperryDrill Lobe 6/7 - 5.0 stg	963212	9.625	6.135	17.250	147.21	B 7-5/8" Reg	9.59	1.45
3	Non-Mag Cross Over Sub	A-545	9.500	3.000		217.48	B 6-5/8" Reg	1.22	
4	8" RLL w/DGR + EWR	DM1515HGVR	8.000	1.920		161.44	B 6-5/8" Reg	6.99	
5	8" MPT w/Dir	DM01535KF8	8.000	1.920		161.44	B 6-5/8" Reg	6.27	
6	Float Sub w/ported float	A-317	8.000	3.000		147.22	B 6-5/8" Reg	0.70	
7	3 x 8" Drill collars		8.000	2.810		150.00	B 6-5/8" Reg	28.44	
8	Drilling Jar	DAH01965	8.250	3.000		158.09	B 6-5/8" Reg	9.69	
9	2 x 8" Drill collars		8.000	2.810		150.00	B 6-5/8" Reg	19.08	
10	Cross Over Sub		6.500	2.810		91.95	B 4-1/2" IF	0.97	
11	15 x 5" HWDP		5.000	3.000		49.30	B 4-1/2" IF	140.45	
								223.82	

Parameter		Min	Max	Ave
WOB (klbs)	:	4	10	7
RPM (rpm)	:	60	60	60
Flow (gpm)	:	750	1025	935
SPP (psi)	:	1080	2000	1573

Activity	Hrs
Drilling :	6.50
Reaming :	0.00
Circ-Other :	1.00
Total :	7.50

BHA Weight		(lb)
In Air (Total)	:	64744
in Mud (Total)	:	
In Air (Bel Jars)	:	27318
in Mud (Bel Jars)	:	

Drill String	OD(in)	Len (m)
DP(S)-FH-21.90#	5.500	112

PERFORMANCE

	In	Out
Inclination (deg)	0.76	11.34
Azimuth (deg)	164.57	236.93

	Distance (m)	ROP (m/hr)	Build (°/30m)	Turn (°/30m)	DLS (°/30m)
Oriented :	100.00	24			3.00
Rotated :	124.00	43	2.00	0.00	
Total :	224.00	34	1.42	0.00	1.49

COMMENTS

OBJECTIVES:

Rotary drill from the 20" shoe to 200m MD then kick off, nudging the well at 2°/30m to 10° inclination on a 236° azimuth by section TD at 336m.

RESULTS:

The 17½" assembly was made up and RIH, having set the motor bend to 1.5° and surface tested. Tagged top of cement at 109m and drilled out the shoetrack, then continued to drill in rotary to kick-off point at 173m, which was 27m higher than proposed. Set mag. toolface on 236° and commenced sliding to nudge the well to 10° inclination as per wellplan. While there were no problems achieving build, the initial surveys showed the azimuth slow to turn to the required 236°, but a 15m slide flat right followed by a full stand at 60° right was sufficient to get the well on proposal.
The assembly produced doglegs of 2°/30m at the start of the run, building up to 3°/30m at 300m. It built at 2°/30m in rotary.
Drilled to section TD at 336m, circ. bottoms up and POOH to run 13 3/8" casing.
On surface the bit was found to be heavily balled up. All BHA components in good condition.

RECOMMENDATIONS:

No problems encountered throughout this short section.

sperry-sun
DRILLING SERVICES

BHA Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

BHA# 3

BHA# 3 : Date In 29/05/200 **MD In (m) :** 336 **TVD In (m) :** 335 **Date Out** 29/05/200 **MD Out (m):** 458 **TVD Out (m):** 451

BIT DATA

Bit #	OD (in)	MFR	Style	Serial#	Nozzles (/32's)	TFA (in²)	Dull Condition
3	12.250	Reed	MHT13GC	NL5006	3x15, 1x24	0.960	0-0-NO-A -E-I-NO-BHA

MOTOR DATA

Run #	OD (in)	MFR	Model	Serial#	Bend	Nzl (/32's)	Avg Dif (psi)	Cum Circ Hrs
2	8.000	SSDS	SperryDrill	800052	1.15°		55	8.50

COMPONENT DATA

Item #	Description	Serial #	OD (in)	ID (in)	Gauge (in)	Weight (lbs/ft)	Top Con	Length (m)	Bit - Center Blade (m)
1	12 1/4" Milled Tooth Bit	NL5006	12.250		12.250	333.00	P 6-5/8" Reg	0.34	
2	8" SperryDrill Lobe 4/5 - 5.3 stg	800052	8.000	5.000	12.125	104.39	B 7-5/8" Reg	9.53	1.17
3	8" RLL w/DGR + EWR	DM1515HGVR	8.000	1.920		161.44	B 6-5/8" Reg	6.99	
4	8" MPT w/Dir		8.000	1.920		161.44	B 6-5/8" Reg	6.27	
5	Float Sub (with ported float)		8.000	3.000		147.22	B 6-5/8" Reg	0.70	
6	Cross Over Sub		6.500	2.810		91.95	B 4-1/2" IF	0.97	
7	9x 5" HWDP		5.000	3.000		49.30	B 4-1/2" IF	82.14	
8	Drilling Jar		6.750	2.750		101.71	B 4-1/2" IF	9.64	
9	3 x 5" HWDP		5.000	3.000		49.30	B 4-1/2" IF	27.07	
10	32x 30 x DP (S) - NC50(XH) - 19.50#		5.000	4.276		22.60	B 4-1/2" IF	290.24	
11	24x 30 x 5" HWDP		5.000	3.000		49.30	B 4-1/2" IF	222.14	
								656.03	

Parameter		Min	Max	Ave
WOB (klbs)	:	6	15	11
RPM (rpm)	:	60	60	60
Flow (gpm)	:	800	850	809
SPP (psi)	:	1200	1680	1352

Activity	Hrs
Drilling :	4.75
Reaming :	0.00
Circ-Other :	3.75
Total :	8.50

BHA Weight		(lb)
in Air (Total)	:	89621
in Mud (Total)	:	77549
In Air (Bel Jars)	:	24575
In Mud (Bel Jars)	:	21265

Drill String	OD(in)	Len (m)
DP(S)-NC50(XH)-19.50#	5.000	

PERFORMANCE

	In	Out
Inclination (deg)	11.34	27.54
Azimuth (deg)	236.93	237.62

	Distance (m)	ROP (m/hr)	Build (°/30m)	Turn (°/30m)	DLS (°/30m)
Oriented :	79.00	22			3.50
Rotated :	43.00	32	1.00	2.00	
Total :	122.00	26	3.98	0.17	3.98

COMMENTS

OBJECTIVES:

Build to 86 degrees inclination while maintaining an azimuth of 235.617 at 4.1°/30m, in order to set the 9 5/8" casing in the top of the Gurnard formation.

RESULTS:

The 12 1/4" steerable assembly was made up and RIH. Tagged TOC at 298m and drilled out shoetrack, shoe and 4m of new formation prior to an FIT.
The section was to be drilled to 9 5/8" casing point at a build rate of 4.10°/30m. From the initial surveys however, it became apparent that the 1.15 bent housing was only producing 3.5 - 4°/30m doglegs. Having drilled to 458m and with the dogleg requirement starting to increase, it was decided to pull out of hole and increase the bend on the motor to 1.5°

RECOMMENDATIONS:

For the Patricia - 2 well a 1.5° bend should be used from the start of the 12¼" section, to give more flexibility in achieving the required doglegs.

sperry-sun
DRILLING SERVICES

BHA Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

BHA# 4

BHA# 4 : Date In :29/05/200 MD In (m) : 458 TVD In (m) : 451 Date Out 31/05/200 MD Out (m): 871 TVD Out (m): 681

BIT DATA

Bit #	OD (in)	MFR	Style	Serial#	Nozzles (/32's)	TFA (in²)	Dull Condition
3rr1	12.250	Reed	MHT13GC	NL5006	3x15, 1x24	0.960	1-2-WT-H -E-2-NO-TD

MOTOR DATA

Run #	OD (in)	MFR	Model	Serial#	Bend	Nzl (/32's)	Avg Dif (psi)	Cum Circ Hrs
3	8.000	SSDS	SperryDrill	800052			49	35.00

COMPONENT DATA

Item #	Description	Serial #	OD (in)	ID (in)	Gauge (in)	Weight (lbs/ft)	Top Con	Length (m)	Bit - Center Blade (m)
1	12 1/4" Milled Tooth Bit	NL5006	12.250		12.250	333.00	P 6-5/8" Reg	0.34	
2	8" SperryDrill Lobe 4/5 - 5.3 stg	800052	8.000	5.000	12.125	104.39	B 7-5/8" Reg	9.53	1.17
3	8" RLL w/DGR + EWR	DM1515HGVR	8.000	1.920		161.44	B 6-5/8" Reg	6.99	
4	8" MPT w/Dir		8.000	1.920		161.44	B 6-5/8" Reg	6.27	
5	Float Sub (with ported float)		8.000	3.000		147.22	B 6-5/8" Reg	0.70	
6	Cross Over Sub		6.500	2.810		91.95	B 4-1/2" IF	0.97	
7	3 x 5" HWDP		5.000	3.000		49.30	B 4-1/2" IF	26.95	
8	Drilling Jar		6.750	2.750		101.71	B 4-1/2" IF	9.64	
9	3 x 5" HWDP		5.000	3.000		49.30	B 4-1/2" IF	27.07	
10	30 x DP (S) - NC50(XH) - 19.50#		5.000	4.276		22.60	B 4-1/2" IF	270.00	
11	30 x 5" HWDP		5.000	3.000		49.30	B 4-1/2" IF	277.52	
								635.98	

Parameter		Min	Max	Ave
WOB (klbs)	:	6	35	18
RPM (rpm)	:	60	70	62
Flow (gpm)	:	800	800	800
SPP (psi)	:	1475	2000	1690

Activity	Hrs
Drilling :	21.50
Reaming :	0.00
Circ-Other :	5.00
Total :	26.50

BHA Weight		(lb)
in Air (Total)	:	88151
In Mud (Total)	:	76277
in Air (Bel Jars)	:	15648
In Mud (Bel Jars	:	13541

Drill String	OD(in)	Len (m)
DP(S)-NC50(XH)-19.50#	5.000	235

PERFORMANCE

	In	Out
Inclination (deg)	27.54	80.13
Azimuth (deg)	237.62	235.16

	Distance (m)	ROP (m/hr)	Build (°/30m)	Turn (°/30m)	DLS (°/30m)
Oriented :	170.00	13			12.00
Rotated :	243.00	23	1.20	0.50	
Total :	413.00	19	3.82	-0.18	3.82

COMMENTS

OBJECTIVES:

Continue building at 4.5°/30m to 86° inclination along a 236° azimuth by 9 5/8" casing point at 898m.

RESULTS:

Having increased the bend to 1.5°, the assembly was RIH and drilling continued at ROP's of around 30m/hr sliding and 55m/hr in rotary. After drilling two stands a trend could be established with 12m of slide per stand, along with a rotary build of 1°/30m, giving the required 4.5° - 5°/30m build rate. This equated to a build potential of 10° - 12°/30m, which more than doubled the 3.5 - 4°/30m that the 1.15 bend had given.
At 855m a gas peak of 9% was seen which was later identified as the top of the Gurnard (reservoir) formation, which had come in 5.35m TVD high of prognosis. This had an immediate and detrimental effect on the assembly, with the build rate dropping to 5°/30m and now dropping slightly in rotary. The gas was circulated out and drilling continued to 871m where the gas levels again increased, this time to 21%.
The gas was again circulated out and the decision taken to POOH and set casing, with the remainder of the build to be done in the 8½" section.

RECOMMENDATIONS:

Due to the greatly reduced dogleg capability of the assembly once into the Gurnard formation, it is recommended that the wellpath is kept slightly high of proposal prior to entering the reservoir, when drilling the Patricia -2 well.

sperry-sun
DRILLING SERVICES

BHA Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

BHA# 5

BHA# 5 : Date In :01/06/200 MD In (m) : 871 TVD In (m) : 681 Date Out 03/06/2002 MD Out (m): 1352 TVD Out (m): 673

BIT DATA

Bit #	OD (in)	MFR	Style	Serial#	Nozzles (/32's)	TFA (in²)	Dull Condition
4	8.500	Reed	EHP41ALKDH	M25484	3x14	0.451	1-1-WT-A -E-I-ER-LOG

MOTOR DATA

Run #	OD (in)	MFR	Model	Serial#	Bend	Nzl (/32's)	Avg Dif (psi)	Cum Circ Hrs
4	6.750	SSDS	SperryDrill	675188	1.50°		39	39.00

COMPONENT DATA

Item #	Description	Serial #	OD (in)	ID (in)	Gauge (in)	Weight (lbs/ft)	Top Con	Length (m)	Bit - Center Blade (m)
1	8½" Milled Tooth Bit	M25484	8.500	2.810	8.500	172.25	B 4-1/2" Reg	0.26	
2	6-3/4" SperryDrill Lobe 6/7 - 5.0 stg	675188	6.750	4.498	8.250	67.81	B 4-1/2" IF	7.49	1.02
3	6-3/4" MPT w/Dir	DM01540M6	6.750	2.810		100.82	B 4-1/2" IF	2.73	
4	6-3/4" RLL w/DGR + EWR + CNO	DM1537HNRL	6.750	2.810	8.188	100.82	B 4-1/2" IF	13.21	
5	Pulser	DM01528K6	6.500	2.750		92.85	B 4-1/2" IF	3.47	
6	NM Float Sub w/ported float	A225	6.500	2.810		91.95	B 4-1/2" IF	0.70	
7	3x 5" HWDP		5.000	3.000		49.30	B 4-1/2" IF	26.87	
8	Drilling Jar		6.500	2.750		92.85	B 4-1/2" IF	9.64	
9	3x 5" HWDP		5.000	3.000		49.30	B 4-1/2" IF	27.77	
10	93 x DP (S) - NC50(XH) - 19.50#		5.000	4.276		22.60	B 4-1/2" IF	846.00	
11	30 x 5' HWDP		5.000	3.000		49.30	B 4-1/2" IF	270.00	
								1208.14	

Parameter		Min	Max	Ave
WOB (klbs)	:	4	40	13
RPM (rpm)	:	50	60	57
Flow (gpm)	:	450	600	579
SPP (psi)	:	1350	2540	2113

Activity	Hrs
Drilling :	27.25
Reaming :	5.50
Circ-Other :	6.25
Total :	39.00

BHA Weight	(lb)
In Air (Total)	: 126528
In Mud (Total)	: 107877
In Air (Bel Jars)	: 12700
In Mud (Bel Jars	: 10828

Drill String	OD(in)	Len (m)
DP(S)-NC50(XH)-19.50#	5.000	144

PERFORMANCE

	In	Out
Inclination (deg)	80.13	88.25
Azimuth (deg)	235.16	235.76

	Distance (m)	ROP (m/hr)	Build (°/30m)	Turn (°/30m)	DLS (°/30m)
Oriented :	63.00	14			12.00
Rotated :	418.00	18	0.50	0.50	
Total :	481.00	18	0.51	0.04	0.51

COMMENTS

OBJECTIVES:

To drill the horizontal producing section of the well through the Gurnard formation as per proposal and Geologists instructions.

RESULTS:

The 8½" steerable assembly was made up and RIH with the motor set at 1.5 degrees. Tagged TOC at 842m and drilled out shoetrack, shoe and 2m of new formation prior to an FIT.
The well path was built to horizontal straight out of the shoe, as the previous assembly had not built enough on entering the Gurnard formation. This was achieved and then the inclination was brought up to 92 degrees as it was found that the dip was much greater than deduced from the seismic. The assembly produced 12 degree doglegs whilst sliding which was twice that calculated, using the data from the previous assembly.
The inclination was held at around 92 degrees, and at this inclination the Latrobe formation was entered. It was decided to drill ahead until the assembly drilled out of the other side of the La Trobe. This was acheived and the inclination was brought down to try and follow the Gurnard. However the dip of the Gurnard was greater than the drop rate and the well path entered the cap formation.
At this point it was decided to re-log the section and pull out of hole to down load the data, run back in and sidetrack the well in open hole.
The assembly seemed to react well to drilling parameters, with 2-4 klbs weight on bit causing a drop, 8-10 a hold and 10-15 a build.

sperry-sun
DRILLING SERVICES

BHA Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3 ST1
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023
BHA# 6

BHA# 6 : Date In 03/06/200 MD In (m) : 1137 TVD In (m) : 678 Date Out 05/06/200 MD Out (m): 1555 TVD Out (m): 710

BIT DATA

Bit #	OD (in)	MFR	Style	Serial#	Nozzles (/32's)	TFA (in²)	Dull Condition
4rr1	8.500	Reed	EHP41ALKDH	M25484	3x14	0.451	1-2-LT-G -E-I-ER-TD

MOTOR DATA

Run #	OD (in)	MFR	Model	Serial#	Bend	Nzl (/32's)	Avg Dif (psi)	Cum Circ Hrs
5	6.750	SSDS	SperryDrill	675188	1.50°		24	70.25

COMPONENT DATA

Item #	Description	Serial #	OD (in)	ID (in)	Gauge (in)	Weight (lbs/ft)	Top Con	Length (m)	Bit - Center Blade (m)
1	8½" Milled Tooth Bit	M25484	8.500	2.810	8.500	172.25	B 4-1/2" Reg	0.26	
2	6-3/4" SperryDrill Lobe 6/7 - 5.0 stg	675188	6.750	4.498	8.250	67.81	B 4-1/2" IF	7.49	1.02
3	6-3/4" MPT w/Dir	DM01540M6	6.750	2.810		100.82	B 4-1/2" IF	2.73	
4	6-3/4" RLL w/DGR + EWR + CNO	DM1537HNRL	6.750	2.810	8.188	100.82	B 4-1/2" IF	13.21	
5	Pulser	DM01528K6	6.500	2.750		92.85	B 4-1/2" IF	3.47	
6	NM Float Sub w/ported float	A225	6.500	2.810		91.95	B 4-1/2" IF	0.70	
7	3x 5" HWDP		5.000	3.000		49.30	B 4-1/2" IF	26.87	
8	Drilling Jar		6.500	2.750		92.85	B 4-1/2" IF	9.64	
9	3x 5" HWDP		5.000	3.000		49.30	B 4-1/2" IF	27.77	
10	93 x DP (S) - NC50(XH) - 19.50#		5.000	4.276		22.60	B 4-1/2" IF	846.00	
11	30 x 5' HWDP		5.000	3.000		49.30	B 4-1/2" IF	270.00	
								1208.14	

Parameter		Min	Max	Ave
WOB (klbs)	:	8	45	17
RPM (rpm)	:	50	50	50
Flow (gpm)	:	570	605	598
SPP (psi)	:	2300	2570	2441

Activity	Hrs
Drilling :	25.25
Reaming :	0.00
Circ-Other :	6.00
Total :	31.25

BHA Weight	(lb)
in Air (Total)	: 126528
in Mud (Total)	: 107556
in Air (Bel Jars)	: 12700
in Mud (Bel Jars	: 10796

Drill String	OD(in)	Len (m)

PERFORMANCE

	In	Out
Inclination (deg)	89.77	95.78
Azimuth (deg)	238.36	232.28

	Distance (m)	ROP (m/hr)	Build (°/30m)	Turn (°/30m)	DLS (°/30m)
Oriented :	130.00	11			12.00
Rotated :	288.00	19	0.50	0.50	
Total :	418.00	17	0.43	-0.44	0.61

COMMENTS

The same BHA will be used to sidetrack the well as run in the original hole.

OBJECTIVES:

Perform a lowside sidetrack in the top of the Latrobe formation in order to re-enter the Gurnard reservoir as early as possible. The inclinination will be dropped from 92° to 87° and then held until out of the Latrobe. The well will then continue to drop angle until through the fault, followed by a build to horizontal by section TD.

RESULTS:

The LWD was downloaded and re-programmed, and the assembly re-run in hole to the sidetrack point at 1137m. Set the toolface on lowside and attempted to work the pipe over 10m to form a ledge from which to initiate the sidetrack, but this could only be done over the last 2m as the string would take weight if pulled back any further.
With the compensator locked, worked the pipe for 30 min and then began time drilling at 1m/hr for the first 3m, increasing to 2m/hr. Due to the softness of the formation and the high dogleg potential, the string was rotated after 7m of slide, the resultant survey on stand down showing a drop in inclination of 3.6° from the previous hole. After rotating a stand, the geologist instructed that the angle build back to 90°, so as to ensure minimum penetration of the the Latrobe.
Once over the crest of the Latrobe, the inclination was dropped to 75°, at doglegs of 3-4°/30m achieved with 11 - 12m of slide. Having then crossed the fault which had been established when drilling the original hole, the well was again built back to a final inclination of 95°, again at ± 4°/30m. This put the toe of the well into the SG-3 sequence of the reservoir. At 1555m section TD was called by geology in town. Circulated the hole clean and backreamed out to 1100m. Continued to POOH to the shoe and ran back to bottom. Circ. bottoms up again and POOH to surface.

RECOMMENDATIONS:

There were no problems encountered on this sidetrack, and all the directional objectives were met.

MOTOR PERFORMANCE REPORT

M-AU-DD-02023-2

Motor Serial # : 963212 | **Job #** : AU-DD-02023

Directional Driller(s) : Digby Thomas, Tim Gallagher | **Client** : OMV Australia Pty. Ltd.

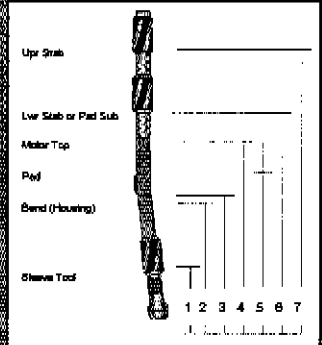
Location : Gippsland Sub basin | **Rig** : Ocean Bounty

Well Name : Baleen #3 | **Bit Run #** : 2 | **BHA #** : 2 | **Motor Run #** : 1

Depth In/Out : 112 / 336 *m* | **Date In/Out** : 25/05/2002 / 25/05/2002 | **Hole Size** : 17.500 *in*

Application Details : Kickoff

MOTOR CONFIGURATION



	From Bit *(m)*	Component		Type	Diam In/Out *(in)*
1	1.45	Sleeve Stab/Pad	Yes	Stab: 5 1 0°	17.250 17.250
2	3.68	Bent Housing	Yes	Adjustable: 1.50° bend	
3	3.70	Housing Tool Used	Yes	Pad 0.250 in Th	
4	10.01	Stator Elastomer			
5		Bent Sub / 2nd Bent Hsg	No		
6		Lower String Stab	No		
7		Upper String Stab	No		

Additional Features :

Flex Collar : No | **Short Brg Pack** : No | **Rtr Noz / Size** : */32's*

Brg Cfg (Off/On) : 3/3 | **Lobe Cfg** : 6/7 | **BHA OD/ID** : 9.500 / 3.000 *in*

	Arr	Ret
Pick Up Sub	No	No
Bit Box Protr	Yes	No

MOTOR RUN DATA

Max Dogleg While Rotating : 3.58 *°/30m* | **RPM** : 60 | **Motor Stalled** : No | **Prev Job/Well Hrs** : 0.00

Max Dogleg Overpulled In : *°/30m* | **Force** : *lbf* | **Float Valve** : Yes | **Drilling Hrs** : 6.50

Max Dogleg Pushed Through : *°/30m* | **Force** : *lbf* | **DP Filter** : No | **Circ Hrs** : 1.00

Hole Azimuth Start / End : 164.57° / 236.93° | **Inc Start / End** : 0.76° / 11.34° | **Reaming Hrs** : 0.00

Interval Oriented / Rot. : 100 / 124 *m* | **Directional Perf Ori / Rot** : 3.00 / 2.00 *°/30m* | **Total Hrs This Run** : 7.50

Jarring Occured : No | **New Cumulative Hrs** : 7.50

	Diff Press *(psi)*	Str RPM	Rotn Torque *(ft-lbs)*	Drag Up/Dn *(lbf)*	WOB *(klbs)*	ROP Oriented *(m/hr)*	ROP Rotated *(m/hr)*
Avg :	51	60	3750	/	7	24	43
Max :	150	60	5000	/	10	70	100

PRE-RUN TESTS

Motor Tested Pre-Run : Yes | **with** : 2 Collars, Bit

Dump Sub Operating : N/A | **Brg Play** : 0.0 *mm*

Flow 1 : 900 *gpm* | **Pressure 1** : 700 *psi*

Flow 2 : *gpm* | **Pressure 2** : *psi*

Driveshaft Rotation Observed : Yes

Bearing Leakage Observed : Yes

POST-RUN TESTS

Motor Tested Post-Run : No | **with** :

Dump Sub Operating : N/A | **Brg Play** : 3.0 *mm*

Flow 1 : *gpm* | **Pressure 1** : *psi*

Flow 2 : *gpm* | **Pressure 2** : *psi*

Driveshaft Rotation Observed : No

Bearing Leakage Observed : No

Driveshaft Rotated to Drain Mud : Yes

Fluid Flushed : No | **Fluid Used** :

MUD DATA

Base : Water | **Additives** : PHPA, Glycol | **Mud Wt** : 1.06 *sg* | **SPP Start/End** : 1090 / 1950 *psi*

% Oil/Water : / | **% Solids** : 3.30 | **% Sand** : 0.00 | **PV** : 11 *cp* | **YP** : 21.0 *lbf/100ft²* | **pH** : 9.5

DH Temp Avg/Max : / | **Flow/Rate Avg/Max** : 935 / 1025 *gpm* | **Chloride Content** : *ppm*

Principle Formation Name(s) : | **Lithology** :

BIT DATA

Make : Security DBS | **Type** : XT1C | **Serial #** : 740844

Pre Existing Hours From Other Wells:

Prev Drilling Hrs : 0.00 | **Prev Reaming Hrs** : 0.00 | **No of Runs This Bit** : 1

Jet Sizes *(/32's)* : 3x24 | **TFA** : 1.325 *in²* | **Gage Length** : *in*

Dull Grade	1	2	3	4	5	6	7	8
In								NEW
Out	1	1	BU	A	E	I	NO	TD

PERFORMANCE COMMENTS

Problem Perceived : No | **Problem Date** : | **Service Interrupt** : No | **Service Interrupt Hrs** :

Performance Motor : Yes | **Tandem Motor** : No | **LIH** : No | **PPR Ref #** :

No problems were encountered with the motor, which was laid down at 17½" section TD, after 6.8 circulating hours

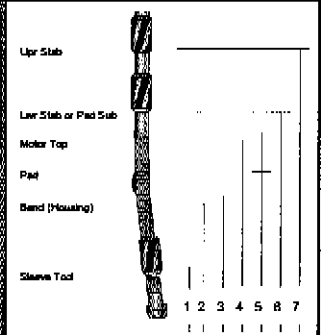
Customer Representative's Signature (optional) : ..... **Date:** .....

MOTOR PERFORMANCE REPORT

M-AU-DD-02023-3

Motor Serial # : 800052 | **Job #** : AU-DD-02023
Directional Driller(s) : Digby Thomas, Tim Gallagher | **Client** : OMV Australia Pty. Ltd.
Location : Gippsland Sub basin | **Rig** : Ocean Bounty
Well Name : Baleen #3 | **Bit Run #** : 3 | **BHA #** : 3 | **Motor Run #** : 2
Depth In/Out : 336 / 458 *m* | **Date In/Out** : 29/05/2002 / 29/05/2002 | **Hole Size** : 12.250 *in*
Application Details : Steerable Drilling

MOTOR CONFIGURATION



	From Bit (in)	Component		Type	Diam In/Out (in)
1	1.17	Sleeve Stab/Pad	Yes	Stab: 4 I 0°	12.125 12.125
2	3.22	Bent Housing	Yes	Adjustable: 1.15° bend	
3	2.98	Housing Tool Used	Yes	Pad 0.250 in Th	
4	9.87	Stator Elastomer			
5		Bent Sub / 2nd Bent Hsg	No		
6		Lower String Stab	No		
7		Upper String Stab	No		

Additional Features :
Flex Collar : No | **Short Brg Pack** : No | **Rtr Noz / Size** : /32's
Brg Cfg (Off/On) : 3/3 | **Lobe Cfg** : 6/7 | **BHA OD/ID** : 8.000 / 1.920 *in*

	Arr	Ret
Pick Up Sub	Yes	No
Bit Box Protr	Yes	No

MOTOR RUN DATA

Max Dogleg While Rotating : 4.44 °/30m | **RPM** : 60 | **Motor Stalled** : No | **Prev Job/Well Hrs** : 0.00
Max Dogleg Overpulled In : °/30m | **Force** : lbf | **Float Valve** : Yes | **Drilling Hrs** : 4.75
Max Dogleg Pushed Through : °/30m | **Force** : lbf | **DP Filter** : No | **Circ Hrs** : 3.75
Hole Azimuth Start / End : 236.93° / 237.62° | **Inc Start / End** : 11.34° / 27.54° | **Reaming Hrs** : 0.00
Interval Oriented / Rot. : 79 / 43 *m* | **Directional Perf Orl / Rot** : 3.50 / 1.20 °/30m | **Total Hrs This Run** : 8.50
Jarring Occured : No | **New Cumulative Hrs** : 8.50

	Diff Press (psi)	Str RPM	Rotn Torque (ft-lbs)	Drag Up/Dn (lbf)	WOB (klbs)	ROP Oriented (m/hr)	ROP Rotated (m/hr)
Avg :	55	60	3500	0 / 0	11	22	32
Max :	105	60	5000	0 / 0	15	85	100

PRE-RUN TESTS

Motor Tested Pre-Run : Yes | **with** : 0 Collars
Dump Sub Operating : N/A | **Brg Play** : 0.0 *mm*
Flow 1 : 400 *gpm* | **Pressure 1** : 160 *psi*
Flow 2 : 500 *gpm* | **Pressure 2** : 190 *psi*
Driveshaft Rotation Observed : Yes
Bearing Leakage Observed : Yes

POST-RUN TESTS

Motor Tested Post-Run : No | **with** :
Dump Sub Operating : N/A | **Brg Play** : 0.0 *mm*
Flow 1 : *gpm* | **Pressure 1** : *psi*
Flow 2 : *gpm* | **Pressure 2** : *psi*
Driveshaft Rotation Observed : No
Bearing Leakage Observed : No
Driveshaft Rotated to Drain Mud : No
Fluid Flushed : No | **Fluid Used** :

MUD DATA

Base : Water | **Additives** : PHPA, Glycol | **Mud Wt** : 1.06 *sg* | **SPP Start/End** : 1350 / 1680 *psi*
% Oil/Water : / | **% Solids** : 3.30 | **% Sand** : 0.00 | **PV** : 11 *cp* | **YP** : 21.0 *lbf/100ft²* | **pH** : 9.5
DH Temp Avg/Max : / | **FlowRate Avg/Max** : 809 / 850 *gpm* | **Chloride Content** : *ppm*
Principle Formation Name(s) : | **Lithology** :

BIT DATA

Make : Reed | **Type** : MHT13GC | **Serial #** : NL5006
Pre Existing Hours From Other Wells:
Prev Drilling Hrs : 0.00 | **Prev Reaming Hrs** : 0.00 | **No of Runs This Bit** : 1
Jet Sizes (/32's) : 3x15, 1x24 | **TFA** : 0.960 *in²* | **Gage Length** : *in*

Dull Grade	1	2	3	4	5	6	7	8
In								NEW
Out	0	0	NO	A	E	I	NO	BHA

PERFORMANCE COMMENTS

Problem Perceived : No | **Problem Date** : | **Service Interrupt** : No | **Service Interrupt Hrs** :
Performance Motor : Yes | **Tandem Motor** : No | **LIH** : No | **PPR Ref #** :

The assembly was pulled to increase the motor bend angle to 1.5°, as the 1.15° bend was not sufficient to give the required build rates.

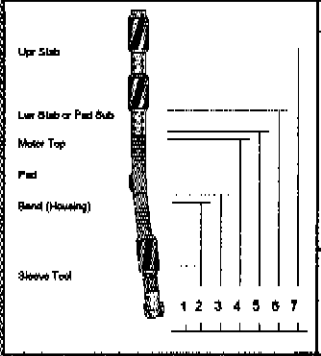
Customer Representative's Signature (optional) : ..... **Date:** .....

MOTOR PERFORMANCE REPORT

M-AU-DD-02023-4

Motor Serial # : 800052	**Job # :** AU-DD-02023		
Directional Driller(s) : Digby Thomas, Tim Gallagher	**Client :** OMV Australia Pty. Ltd.		
Location : Gippsland Sub basin	**Rig :** Ocean Bounty		
Well Name : Baleen #3	**Bit Run # :** 3rr1	**BHA # :** 4	**Motor Run # :** 3
Depth In/Out : 458 / 871 *m*	**Date In/Out :** 29/05/2002 / 31/05/2002		**Hole Size :** 12.250 *in*
Application Details : Steerable Drilling			

MOTOR CONFIGURATION



	From Bit *(m)*	Component		Type	Diam In/Out *(in)*
1	1.17	Sleeve Stab/Pad	Yes	Stab: 4 I 0°	12.125 12.125
2	3.22	Bent Housing	Yes	Adjustable: ° bend	
3	2.98	Housing Tool Used	Yes	Pad 0.250 in Th	
4	9.87	Stator Elastomer			
5		Bent Sub / 2nd Bent Hsg	No		
6		Lower String Stab	No		
7		Upper String Stab	No		

Additional Features :

Flex Collar : No **Short Brg Pack :** No **Rtr Noz / Size :** */32's*

Brg Cfg (Off/On) : 3/3 **Lobe Cfg :** 6/7 **BHA OD/ID :** 8.000 / 1.920 *in*

	Arr	Ret
Pick Up Sub :	Yes	No
Bit Box Protr :	Yes	No

MOTOR RUN DATA

Max Dogleg While Rotating : 7.87 *°/30m*	**RPM :** 60	**Motor Stalled :** No	**Prev Job/Well Hrs :** 8.50		
Max Dogleg Overpulled In : *°/30m*	**Force :** *lbf*	**Float Valve :** Yes	**Drilling Hrs :** 21.50		
Max Dogleg Pushed Through : *°/30m*	**Force :** *lbf*	**DP Filter :** No	**Circ Hrs :** 5.00		
Hole Azimuth Start / End : 237.62° / 235.16°	**Inc Start / End :** 27.54° / 80.13°		**Reaming Hrs :** 0.00		
Interval Oriented / Rot. : 170 / 243 *m*	**Directional Perf Ori / Rot :** 12.00 / 1.27 *°/30m*		**Total Hrs This Run :** 26.50		
Jarring Occured : No			**New Cumulative Hrs :** 35.00		

	Diff Press *(psi)*	Str RPM	Rotn Torque *(ft-lbs)*	Drag Up/Dn *(lbf)*	WOB *(klbs)*	ROP Oriented *(m/hr)*	ROP Rotated *(m/hr)*
Avg :	49	62	5444	5000 / 20000	18	13	23
Max :	120	70	6000	10000 / 35000	35	33	100

PRE-RUN TESTS

Motor Tested Pre-Run : No **with :**

Dump Sub Operating : N/A **Brg Play :** *mm*

Flow 1 : *gpm* **Pressure 1 :** *psi*

Flow 2 : *gpm* **Pressure 2 :** *psi*

Driveshaft Rotation Observed : No

Bearing Leakage Observed : No

POST-RUN TESTS

Motor Tested Post-Run : No **with :**

Dump Sub Operating : N/A **Brg Play :** 2.0 *mm*

Flow 1 : *gpm* **Pressure 1 :** *psi*

Flow 2 : *gpm* **Pressure 2 :** *psi*

Driveshaft Rotation Observed : No

Bearing Leakage Observed : No

Driveshaft Rotated to Drain Mud : Yes

Fluid Flushed : No **Fluid Used :**

MUD DATA

Base : Water **Additives :** Kcl, PHPA, Glycol, SO3 **Mud Wt :** 1.16 *sg* **SPP Start/End :** 1675 / 1960 *psi*

% Oil/Water : / **% Solids :** 7.00 **% Sand :** 0.10 **PV :** 18 *cp* **YP :** 39.0 *lbf/100ft²* **pH :** 9.5

DH Temp Avg/Max : / **FlowRate Avg/Max :** 800 / 800 *gpm* **Chloride Content :** *ppm*

Principle Formation Name(s) : **Lithology :**

BIT DATA

Make : Reed **Type :** MHT13GC **Serial # :** NL5006

Pre Existing Hours From Other Wells:

Prev Drilling Hrs : 4.75 **Prev Reaming Hrs :** 2.75 **No of Runs This Bit :** 2

Jet Sizes */32's)* : 3x15, 1x24 **TFA :** 0.960 *in²* **Gage Length :** *in*

Dull Grade	1	2	3	4	5	6	7	8
In	0	0	NO	A	E	I	NO	BHA
Out	1	2	WT	H	E	2	NO	TD

PERFORMANCE COMMENTS

Problem Perceived : No **Problem Date :** **Service Interrupt :** No **Service Interrupt Hrs :**

Performance Motor : Yes **Tandem Motor :** No **LIH :** No **PPR Ref # :**

No problems were encountered with the motor, which was laid down at 12 1/4" section TD, after 35.0 circulating hours (including 8.5 hours from previous run)

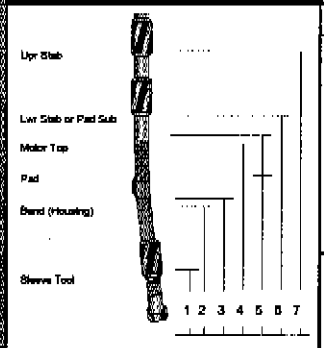
Customer Representative's Signature (optional) : ..... **Date:** .....

MOTOR PERFORMANCE REPORT

M-AU-DD-02023-5

Motor Serial # : 675188		**Job #** : AU-DD-02023	
Directional Driller(s) : Digby Thomas, Tim Gallagher		**Client** : OMV Australia Pty. Ltd.	
Location : Gippsland Sub basin		**Rig** : Ocean Bounty	
Well Name : Baleen #3	**Bit Run #** : 4	**BHA #** : 5	**Motor Run #** : 4
Depth In/Out : 871 / 1352 *m*	**Date In/Out** : 01/06/2002 / 03/06/2002		**Hole Size** : 8.500 *in*
Application Details : Horizontal			

MOTOR CONFIGURATION



	From Bit *(m)*	Component		Type	Diam In/Out *(in)*
1	1.02	Sleeve Stab/Pad	Yes	Stab: 4 I 0°	8.250 8.250
2	2.00	Bent Housing	Yes	Adjustable: 1.50° bend	
3		Housing Tool Used	No		
4	7.75	Stator Elastomer			
5		Bent Sub / 2nd Bent Hsg	No		
6		Lower String Stab	No		
7		Upper String Stab	No		

Additional Features :

Flex Collar : No **Short Brg Pack** : Yes **Rtr Noz / Size** : */32's*

Brg Cfg (Off/On) : 3/3 **Lobe Cfg** : 6/7 **BHA OD/ID** : 6.750 / 2.810 *in*

	Arr	Ret
Pick Up Sub :	Yes	No
Bit Box Protr :	Yes	No

MOTOR RUN DATA

Max Dogleg While Rotating : 8.97 *°/30m*	**RPM** : 60	**Motor Stalled** : No	**Prev Job/Well Hrs** : 0.00
Max Dogleg Overpulled In : *°/30m*	**Force** : *lbf*	**Float Valve** : Yes	**Drilling Hrs** : 27.25
Max Dogleg Pushed Through : *°/30m*	**Force** : *lbf*	**DP Filter** : No	**Circ Hrs** : 6.25
Hole Azimuth Start / End : 235.16° / 235.76°	**Inc Start / End** : 80.13° / 88.25°		**Reaming Hrs** : 5.50
Interval Oriented / Rot. : 63 / 418 *m*	**Directional Perf Ori / Rot** : 12.00 / 0.71 *°/30m*		**Total Hrs This Run** : 39.00
Jarring Occured : No			**New Cumulative Hrs** : 39.00

	Diff Press *(psi)*	Str RPM	Rotn Torque *(ft-lbs)*	Drag Up/Dn *(lbf)*	WOB *(klbs)*	ROP Oriented *(m/hr)*	ROP Rotated *(m/hr)*
Avg :	39	57	6200	5000 / 15000	13	14	18
Max :	90	60	7000	6000 / 25000	40	44	60

PRE-RUN TESTS

Motor Tested Pre-Run : Yes **with** : 0 Collars

Dump Sub Operating : N/A **Brg Play** : 0.0 *mm*

Flow 1 : 500 *gpm* **Pressure 1** : 300 *psi*

Flow 2 : *gpm* **Pressure 2** : *psi*

Driveshaft Rotation Observed : Yes

Bearing Leakage Observed : Yes

POST-RUN TESTS

Motor Tested Post-Run : No **with** :

Dump Sub Operating : N/A **Brg Play** : 2.0 *mm*

Flow 1 : *gpm* **Pressure 1** : *psi*

Flow 2 : *gpm* **Pressure 2** : *psi*

Driveshaft Rotation Observed : No

Bearing Leakage Observed : No

Driveshaft Rotated to Drain Mud : No

Fluid Flushed : No **Fluid Used** :

MUD DATA

Base : Water **Additives** : Kcl, LSRV1, LSRV2, LSRV: **Mud Wt** : 1.16 *sg* **SPP Start/End** : 1350 / 2500 *psi*

% Oil/Water : / **% Solids** : 6.00 **% Sand** : 0.10 **PV** : 12 *cp* **YP** : 44.0 *lbf/100ft²* **pH** : 9.5

DH Temp Avg/Max : / **FlowRate Avg/Max** : 579 / 600 *gpm* **Chloride Content** : *ppm*

Principle Formation Name(s) : **Lithology** :

BIT DATA

Make : Reed **Type** : EHP41ALKDH **Serial #** : M25484

Pre Existing Hours From Other Wells:

Prev Drilling Hrs : 0.00 **Prev Reaming Hrs** : 0.00 **No of Runs This Bit** : 1

Jet Sizes *(/32's)* : 3x14 **TFA** : 0.451 *in²* **Gage Length** : *in*

Dull Grade	1	2	3	4	5	6	7	8
In								NEW
Out	1	1	WT	A	E	I	ER	LOG

PERFORMANCE COMMENTS

Problem Perceived : No **Problem Date** : **Service Interrupt** : No **Service Interrupt Hrs** :

Performance Motor : Yes **Tandem Motor** : No **LIH** : No **PPR Ref #** :

No problems were encountered with the motor. The assembly was pulled to download LWD data, then re-run to sidetrack the well.

Customer Representative's Signature (optional) : ..... **Date:** .....

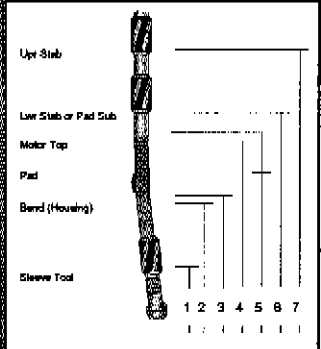
Sperry-Sun Drilling Services

MOTOR PERFORMANCE REPORT

M-AU-DD-02023-6

Motor Serial # : 675188	**Job #** : AU-DD-02023		
Directional Driller(s) : Digby Thomas, Tim Gallagher	**Client** : OMV Australia Pty. Ltd.		
Location : Gippsland Sub basin	**Rig** : Ocean Bounty		
Well Name : Baleen #3	**Bit Run #** : 4rr1	**BHA #** : 6	**Motor Run #** : 5
Depth In/Out : 1137 / 1555 *m*	**Date In/Out** : 03/06/2002 / 05/06/2002		**Hole Size** : 8.500 *in*
Application Details : Horizontal			

MOTOR CONFIGURATION



	From Bit *(m)*	Component		Type	Diam In/Out *(in)*
1	1.02	Sleeve Stab/Pad	Yes	Stab: 4 I 0°	8.250 8.250
2	2.00	Bent Housing	Yes	Adjustable: 1.50° bend	
3		Housing Tool Used	No		
4	7.75	Stator Elastomer			
5		Bent Sub / 2nd Bent Hsg	No		
6		Lower String Stab	No		
7		Upper String Stab	No		

Additional Features :

Flex Collar : No **Short Brg Pack** : Yes **Rtr Noz / Size** : */32's*

Brg Cfg (Off/On) : 3/3 **Lobe Cfg** : 6/7 **BHA OD/ID** : 6.750 / 2.810 *in*

	Arr	Ret
Pick Up Sub :	Yes	No
Bit Box Protr :	Yes	No

MOTOR RUN DATA

Max Dogleg While Rotating : 4.67 *°/30m*	**RPM** : 50	**Motor Stalled** : No	**Prev Job/Well Hrs** :	39.00
Max Dogleg Overpulled In : *°/30m*	**Force** : *lbf*	**Float Valve** : Yes	**Drilling Hrs** :	25.25
Max Dogleg Pushed Through : *°/30m*	**Force** : *lbf*	**DP Filter** : No	**Circ Hrs** :	6.00
Hole Azimuth Start / End : 238.36° / 232.28°	**Inc Start / End** : 89.77° / 95.78°		**Reaming Hrs** :	0.00
Interval Oriented / Rot. : 130 / 288 *m*	**Directional Perf Ori / Rot** : 12.00 / 0.71 *°/30m*		**Total Hrs This Run** :	31.25
Jarring Occured : No			**New Cumulative Hrs** :	70.25

	Diff Press *(psi)*	Str RPM	Rotn Torque *(ft-lbs)*	Drag Up/Dn *(lbf)*	WOB *(klbs)*	ROP Oriented *(m/hr)*	ROP Rotated *(m/hr)*
Avg :	24	50	6786	15000 / 10000	17	11	19
Max :	90	50	8000	20000 / 15000	45	40	60

PRE-RUN TESTS

Motor Tested Pre-Run : No **with** :

Dump Sub Operating : N/A **Brg Play** : 2.0 *mm*

Flow 1 : *gpm* **Pressure 1** : *psi*

Flow 2 : *gpm* **Pressure 2** : *psi*

Driveshaft Rotation Observed : No

Bearing Leakage Observed : No

POST-RUN TESTS

Motor Tested Post-Run : No **with** :

Dump Sub Operating : N/A **Brg Play** : 4.0 *mm*

Flow 1 : *gpm* **Pressure 1** : *psi*

Flow 2 : *gpm* **Pressure 2** : *psi*

Driveshaft Rotation Observed : No

Bearing Leakage Observed : No

Driveshaft Rotated to Drain Mud : Yes

Fluid Flushed : No **Fluid Used** :

MUD DATA

Base : Water **Additives** : Kcl **Mud Wt** : 1.22 *sg* **SPP Start/End** : 2320 / 2570 *psi*

% Oil/Water : / **% Solids** : 7.00 **% Sand** : 0.10 **PV** : 15 *cp* **YP** : 39.0 *lbf/100ft²* **pH** : 9.0

DH Temp Avg/Max : / **FlowRate Avg/Max** : 598 / 605 *gpm* **Chloride Content** : *ppm*

Principle Formation Name(s) : **Lithology** :

BIT DATA

Make : Reed **Type** : EHP41ALKDH **Serial #** : M25484

Pre Existing Hours From Other Wells:

Prev Drilling Hrs : 27.25 **Prev Reaming Hrs** : 8.00 **No of Runs This Bit** : 2

Jet Sizes *(/32's)* : 3x14 **TFA** : 0.451 *in²* **Gage Length** : *in*

Dull Grade	1	2	3	4	5	6	7	8
In	1	1	WT	A	E	I	ER	LOG
Out	1	2	LT	G	E	I	ER	TD

PERFORMANCE COMMENTS

Problem Perceived : No **Problem Date** : **Service Interrupt** : No **Service Interrupt Hrs** :

Performance Motor : Yes **Tandem Motor** : No **LIH** : No **PPR Ref #** :

No problems were encountered with the motor, which was racked with the 8½" BHA in the derrick at section TD, to be used again on the Patricia well.

Customer Representative's Signature (optional) : ..... **Date:** .....

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS — Report # 1 — 15/05/2002

Total Depth	(m)	:	0	Casing Depth	(m)	:	
Drilled last 24 hrs	(m)	:	0	Casing Diameter	(in)	:	
Hole Size	(in)	:		Casing ID	(in)	:	

Operator Reps : Guy Howard, Gavin Othen
SSDS Reps : Digby Thomas (1), Tim Gallagher (1)

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
0.00	0.00	0.00	0.00	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.06	92	11	21.0	7.0 / 11.0	10	9.5	3.30	0.00	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	0.00		Preparing rig for tow to Baleen field

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS — Report # 2 — 16/05/2002

Total Depth	(m)	:	0	**Casing Depth**	(m)	:	
Drilled last 24 hrs	(m)	:	0	**Casing Diameter**	(in)	:	
Hole Size	(in)	:		**Casing ID**	(in)	:	

Operator Reps : Guy Howard, Gavin Othen
SSDS Reps : Digby Thomas (2), Tim Gallagher (2)

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
0.00	0.00	0.00	0.00	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.06	92	11	21.0	7.0 / 11.0	10	9.5	3.30	0.00	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	0.00		Rir under tow to Baleen field

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS — Report # 3 — 17/05/2002

Total Depth	(m)	:	0	Casing Depth	(m)	:	
Drilled last 24 hrs	(m)	:	0	Casing Diameter	(in)	:	
Hole Size	(in)	:		Casing ID	(in)	:	

Operator Reps : Guy Howard, Gavin Othen
SSDS Reps : Digby Thomas (3), Tim Gallagher (3)

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
0.00	0.00	0.00	0.00	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.06	92	11	21.0	7.0 / 11.0	10	9.5	3.30	0.00	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	0.00		Rig under tow to Baleen field

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS Report # 4 18/05/2002

Total Depth	(m)	:	0	**Casing Depth**	(m)	:	
Drilled last 24 hrs	(m)	:	0	**Casing Diameter**	(in)	:	
Hole Size	(in)	:		**Casing ID**	(in)	:	

Operator Reps : Guy Howard, Gavin Othen
SSDS Reps : Digby Thomas (4), Tim Gallagher (4)

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
0.00	0.00	0.00	0.00	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.06	92	11	21.0	7.0 / 11.0	10	9.5	3.30	0.00	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	0.00		Rig under tow to Baleen field

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS — Report # 5 — 19/05/2002

Total Depth	(m)	:	0	Casing Depth	(m)	:	
Drilled last 24 hrs	(m)	:	0	Casing Diameter	(in)	:	
Hole Size	(in)	:		Casing ID	(in)	:	

Operator Reps : Guy Howard, Gavin Othen
SSDS Reps : Digby Thomas (5), Tim Gallagher (5)

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
0.00	0.00	0.00	0.00	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.06	92	11	21.0	7.0 / 11.0	10	9.5	3.30	0.00	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	0.00		Rig under tow while WOW

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS Report # 6 20/05/2002

Total Depth	(m)	:	0	**Casing Depth**	(m)	:	
Drilled last 24 hrs	(m)	:	0	**Casing Diameter**	(in)	:	
Hole Size	(in)	:		**Casing ID**	(in)	:	

Operator Reps : Guy Howard, Gavin Othen
SSDS Reps : Digby Thomas (6), Tim Gallagher (6)

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
0.00	0.00	0.00	0.00	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.06	92	11	21.0	7.0 / 11.0	10	9.5	3.30	0.00	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	0.00		Rig under tow while WOW

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS Report # 7 21/05/2002

Total Depth	(m)	: 0	Casing Depth	(m)	:	Operator Reps	: Guy Howard, Gavin Othen
Drilled last 24 hrs	(m)	: 0	Casing Diameter	(in)	:	SSDS Reps	: Digby Thomas (7), Tim Gallagher (7)
Hole Size	(in)	:	Casing ID	(in)	:		

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
0.00	0.00	0.00	0.00	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.06	92	11	21.0	7.0 / 11.0	10	9.5	3.30	0.00	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	0.00		Rig under tow while WOW

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS Report # 8 22/05/2002

Total Depth	(m)	:	0	**Casing Depth**	(m)	:	
Drilled last 24 hrs	(m)	:	0	**Casing Diameter**	(in)	:	
Hole Size	(in)	:		**Casing ID**	(in)	:	

Operator Reps : Guy Howard, Gavin Othen
SSDS Reps : Digby Thomas (8), Tim Gallagher (8)

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
0.00	0.00	0.00	0.00	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.06	92	11	21.0	7.0 / 11.0	10	9.5	3.30	0.00	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	0.00		Rig under tow while WOW

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS — Report # 9 — 23/05/2002

Total Depth	(m)	:	0	**Casing Depth**	(m)	:	
Drilled last 24 hrs	(m)	:	0	**Casing Diameter**	(in)	:	
Hole Size	(in)	:		**Casing ID**	(in)	:	

Operator Reps : Guy Howard, Gavin Othen
SSDS Reps : Digby Thomas (9), Tim Gallagher (9)

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
0.00	0.00	0.00	0.00	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.06	92	11	21.0	7.0 / 11.0	10	9.5	3.30	0.00	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	0.00		Perform anchor running operations

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS — Report # 10 — 24/05/2002

Total Depth	(m)	:	112	**Casing Depth**	(m)	:	76.27	**Operator Reps** : Guy Howard, Gavin Othen
Drilled last 24 hrs	(m)	:	112	**Casing Diameter**	(in)	:	30.000	**SSDS Reps** : Digby Thomas (10), Tim Gallagher (10)
Hole Size	(in)	:	26.000	**Casing ID**	(in)	:		

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
77.50	0.00	0.00	77.50	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 1: 146.83 m; Bit #1 (1.5 hrs), Other, Sub, 3 x DC, Sub, 3 x DC, Sub, 9 x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.06	54	12	24.0	7.0 / 11.0	6	9.5	3.40	0.00	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	12:00	12.00	0.00		Complete anchor running operations
12:00	13:30	1.50	0.00	1	M/up spud BHA
13:30	14:00	0.50	0.00	1	RIH. Tag seabed at 77.5m
14:00	15:30	1.50	112.00	1	Spud well & drill 36" hole f/77.5m to 112m
15:30	16:00	0.50	112.00	1	Wiper trip to 80m. RIH & wash/ream 2m fill
16:00	16:30	0.50	112.00	1	Pump & displace 100 bbls gel & spot 200 bbl PHG
16:30	18:00	1.50	112.00	1	Drop totco survey & POOH. Survey ½°
18:00	21:00	3.00	112.00		Rig up and run 30" casing and PGB
21:00	23:00	2.00	112.00		Continue to run casing on DP
23:00	23:30	0.50	112.00		Wash down fill f/110m to 112m
23:30	00:00	0.50	112.00		M/up and pressure test cement hose

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS — Report # 11 — 25/05/2002

Total Depth	(m)	:	336	**Casing Depth**	(m)	:	327.60	**Operator Reps** : Guy Howard, Gavin Othen
Drilled last 24 hrs	(m)	:	224	**Casing Diameter**	(in)	:	13.375	**SSDS Reps** : Digby Thomas (11), Tim Gallagher (11)
Hole Size	(in)	:	17.500	**Casing ID**	(in)	:	12.415	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
314.31	9.93	237.31	313.54	13.81	S34.49W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 2: 223.82 m; Bit #2 (7. hrs), PDM #1 (7.5 hrs), Sub, MWD, MWD, Sub, 3 x DC, Jar, 2 x DC, Sub, HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.06	92	11	21.0	7.0 / 11.0	10	9.5	3.30	0.00	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	01:00	1.00	112.00		Cement casing
01:00	02:00	1.00	112.00		Release 30" RT. Attempt to pull. Pulling PGB & csg
02:00	05:00	3.00	112.00		Hold string while WOC. P/up and rack DP
05:00	06:30	1.50	112.00		Pump out RT and lay out same
06:30	07:30	1.00	112.00		M/up 18 3/4" RT. P/up and rack 2 stds HWDP
07:30	09:00	1.50	112.00		P/up motor & set bend. M/up bit and test motor
09:00	10:30	1.50	112.00		P/up and load MWD
10:30	13:30	3.00	112.00	2	Cont. m/up BHA and RIH
13:30	14:00	0.50	112.00	2	Tag TOC @ 109m. Drill shoetrack & work clean
14:00	20:30	6.50	336.00	2	Drill 17½" hole f/112m to 336m
20:30	21:00	0.50	336.00	2	Pump & displace 100 bbl hi-vis pill. Spot 320 bbl phg
21:00	23:00	2.00	336.00	2	POOH & download MWD
23:00	23:30	0.50	336.00	2	Clean off bit and rack BHA
23:30	00:00	0.50	336.00		Rig up to run 13 3/8" casing

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS Report # 12 26/05/2002

Total Depth	(m) :	336	Casing Depth	(m) :	327.60	Operator Reps :	Guy Howard, Gavin Othen
Drilled last 24 hrs	(m) :	0	Casing Diameter	(in) :	13.375	SSDS Reps :	Digby Thomas (12), Tim Gallagher (12)
Hole Size	(in) :		Casing ID	(in) :	12.415		

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
314.31	9.93	237.31	313.54	13.81	S34.49W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.06	92	11	21.0	7.0 / 11.0	10	9.5	3.30	0.00	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	01:00	1.00	336.00		Hold JSA for running casing
01:00	09:00	8.00	336.00		Run and land 13 3/8" casing as per programme
09:00	11:00	2.00	336.00		Cement casing
11:00	13:00	2.00	336.00		Release RT and POOH. Lay out 18 3/4" RT
13:00	20:30	7.50	336.00		Rig up and run Subsea Tree
20:30	00:00	3.50	336.00		Attempt to press. test tree - no success. Investigate.

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS Report # 13 27/05/2002

Total Depth	(m)	: 336	Casing Depth	(m)	: 327.60	Operator Reps	:	Guy Howard, Gavin Othen
Drilled last 24 hrs	(m)	: 0	Casing Diameter	(in)	: 13.375	SSDS Reps	:	Digby Thomas (13), Tim Gallagher (13)
Hole Size	(in)	:	Casing ID	(in)	: 12.415			

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
314.31	9.93	237.31	313.54	13.81	S34.49W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.06	92	11	21.0	7.0 / 11.0	10	9.5	3.30	0.00	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	02:00	2.00	336.00		Cont. troubleshoot problem with SST
02:00	03:00	1.00	336.00		Pull SST
03:00	07:00	4.00	336.00		Move rig off location & repair tree
07:00	07:30	0.50	336.00		Move rig back on location
07:30	18:00	10.50	336.00		Re-run tree and function test - no success
18:00	22:00	4.00	336.00		Pump dye to locate leak. Internal leak found
22:00	22:30	0.50	336.00		Prepare moonpool to run BOP
22:30	00:00	1.50	336.00		Hold JSA. Rig up to run riser

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS — Report # 14 — 28/05/2002

Total Depth	(m)	: 336	**Casing Depth**	(m)	: 327.60	**Operator Reps**	: Guy Howard, Gavin Othen
Drilled last 24 hrs	(m)	: 0	**Casing Diameter**	(in)	: 13.375	**SSDS Reps**	: Digby Thomas (14), Tim Gallagher (14)
Hole Size	(in)	:	**Casing ID**	(in)	: 12.415		

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
314.31	9.93	237.31	313.54	13.81	S34.49W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.06	92	11	21.0	7.0 / 11.0	10	9.5	3.30	0.00	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	01:00	1.00	336.00		Nipple Up BOP & LMRP
01:00	19:00	18.00	336.00		Test BOP and choke & kill lines
19:00	20:00	1.00	336.00		M/up wear bushing and set same
20:00	21:00	1.00	336.00		Break out cement head
21:00	22:00	1.00	336.00		M/up 9 5/8" casing hanger and load plugs
22:00	23:00	1.00	336.00		M/up hang off tool and rack same
23:00	00:00	1.00	336.00		Pick up 5 stds HWDP

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS Report # 15 29/05/2002

Total Depth	(m)	: 542	**Casing Depth**	(m)	: 327.60	**Operator Reps**	: Ron King, Gavin Othen
Drilled last 24 hrs	(m)	: 206	**Casing Diameter**	(in)	: 13.375	**SSDS Reps**	: Digby Thomas (15), Tim Gallagher (15)
Hole Size	(In)	: 12.250	**Casing ID**	(In)	: 12.415		

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
522.74	38.61	235.90	504.60	89.60	S53.98W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 3: 656.03 m; Bit #3 (7.5 hrs), PDM #2 (8.5 hrs), MWD, MWD, Sub, Sub, 9x HWDP, Jar, 3 x HWDP, 32x DP (S), 24x HWDP
BHA 4: 635.98 m; Bit #3rr1 (10.5 hrs), PDM #3 (11.5 hrs), MWD, MWD, Sub, Sub, 3 x HWDP, Jar, 3 x HWDP, DP (S), HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.06	54	12	24.0	7.0 / 11.0	6	9.5	3.40	0.00	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:30	0.50	336.00		Rack back HWDP
00:30	01:00	0.50	336.00		Lay out 17½" BHA
01:00	02:00	1.00	336.00		P/up 8" motor, set bend and surface test
02:00	03:15	1.25	336.00		M/up bit, p/up and load MWD
03:15	06:00	2.75	336.00	3	RIH. P/up DP & HWDP. Install diverter
06:00	06:30	0.50	336.00	3	Service TDS
06:30	09:15	2.75	336.00	3	Tag TOC at 298.4 Drill cement & shoetrack
09:15	09:30	0.25	340.00	3	Drill 12 1/4" hole f/336m to 340m
09:30	10:30	1.00	340.00	3	Displace hole to Kcl / PHPA / Glycol mud
10:30	11:00	0.50	340.00	3	Perform FIT
11:00	15:30	4.50	458.00	3	Drill 12 1/4" hole f/336m to 458m
15:30	17:00	1.50	458.00	3	Flow check & POOH to surface
17:00	19:00	2.00	458.00	3	Change motor bend from 1.15° to 1.5°
19:00	20:00	1.00	458.00	4	RIH. Wash / ream last stand to bottom
20:00	21:30	1.50	514.00	4	Drill 12 1/4" hole f/458m to 514m
21:30	22:30	1.00	514.00	4	Pull back and ream 2 stands to try to reduce dogleg
22:30	00:00	1.50	542.00	4	Drill 12 1/4" hole f/514m to 542m

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS Report # 16 30/05/2002

Total Depth	(m)	:	871	**Casing Depth**	(m)	:	866.00	**Operator Reps** : Ron King, Gavin Othen
Drilled last 24 hrs	(m)	:	329	**Casing Diameter**	(in)	:	9.625	**SSDS Reps** : Digby Thomas (16), Tim Gallagher (16)
Hole Size	(in)	:	12.250	**Casing ID**	(in)	:	8.681	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
871.00	80.13	235.16	680.96	380.31	S55.56W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 4: 635.98 m; Bit #3rr1 (29. hrs), PDM #3 (33.5 hrs), MWD, MWD, Sub, Sub, 3 x HWDP, Jar, 3 x HWDP, DP (S), HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.16	67	18	39.0	12.0 / 18.0	5	9.5	7.00	0.10	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	18:00	18.00	855.00	4	Drill 12 1/4" hole f/542m to 855m
18:00	19:00	1.00	855.00	4	9% gas in wellbore. Circulate out
19:00	19:30	0.50	871.00	4	Drill 12 1/4" hole f/855m to 871m - 21% gas seen
19:30	21:00	1.50	871.00	4	Reciprocate pipe while circulate out gas
21:00	22:00	1.00	871.00	4	Increase MW to 9.6 ppg
22:00	23:00	1.00	871.00	4	POOH to 800m and cont. circulate 9.6 ppg mud
23:00	00:00	1.00	871.00	4	Flow check and POOH to 600m

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS Report # 17 31/05/2002

Total Depth	(m)	:	871	Casing Depth	(m)	:	866.00	Operator Reps : Ron King, Gavin Othen
Drilled last 24 hrs	(m)	:	0	Casing Diameter	(in)	:	9.625	SSDS Reps : Digby Thomas (17), Tim Gallagher (17)
Hole Size	(in)	:	12.250	Casing ID	(in)	:	8.681	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
871.00	80.13	235.16	680.96	380.31	S55.56W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 4: 635.98 m; Bit #3rr1 (29. hrs), PDM #3 (35. hrs), MWD, MWD, Sub, Sub, 3 x HWDP, Jar, 3 x HWDP, DP (S), HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.16	67	18	39.0	12.0 / 18.0	5	9.5	7.00	0.10	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	02:15	2.25	871.00	4	Pump OOH f/600m - 450m. POOH f/450m to 320m
02:15	02:45	0.50	871.00	4	Service TDS
02:45	05:00	2.25	871.00	4	RIH f/320m to 726m. Pump in f/726m to 871m
05:00	05:30	0.50	871.00	4	Spot 50 bbl hi-vis pill. POOH to 800m. Flow check
05:30	06:30	1.00	871.00	4	Circulate bottoms up
06:30	10:00	3.50	871.00	4	POOH to surface. Flow check at shoe
10:00	10:30	0.50	871.00	4	Download LWD
10:30	10:45	0.25	871.00	4	Break off bit. Rack LWD and motor
10:45	12:00	1.25	871.00	4	M/up jet sub & wear bushing RT. RIH & jet BOP
12:00	13:00	1.00	871.00	4	Retrieve wear bushing
13:00	21:30	8.50	871.00		Run 9 5/8" casing
21:30	00:00	2.50	871.00		Cement casing

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS Report # 18 01/06/2002

Total Depth	(m)	:	919	**Casing Depth**	(m)	:	866.00	**Operator Reps** : Ron King, Gavin Othen
Drilled last 24 hrs	(m)	:	48	**Casing Diameter**	(in)	:	9.625	**SSDS Reps** : Digby Thomas (18), Tim Gallagher (18)
Hole Size	(in)	:	8.500	**Casing ID**	(in)	:	8.681	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
892.00	86.39	235.68	683.43	401.15	S55.56W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 5: 1208.14 m; Bit #4 (6.25 hrs), PDM #4 (7.5 hrs), MWD, MWD, Other, Sub, 3x HWDP, Jar, 3x HWDP, DP (S), HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.11	84	13	40.0	18.0 / 22.0	5	9.5	5.00	0.00	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:30	0.50	871.00		Cont. POOH with casing hanger RT
00:30	08:30	8.00	871.00		Test BOP
08:30	09:30	1.00	871.00		P/up motor, set bend to 1.5° and surface test
09:30	13:30	4.00	871.00	5	P/up and load LWD. RIH to 810m and fill pipe
13:30	14:00	0.50	871.00	5	Service TDS at shoe
14:00	16:30	2.50	871.00	5	Tag cement @ 842m. Drill plugs, shoetrack & rathole
16:30	16:45	0.25	873.00	5	Drill 8½" hole f/871m to 873m
16:45	18:00	1.25	873.00	5	Pump 50 bbl hi-vis pill. Displace hole to new mud
18:00	19:00	1.00	873.00	5	Perform FIT
19:00	22:30	3.50	919.00	5	Drill 8½" hole f/873m to 919m
22:30	00:00	1.50	919.00	5	Power failure to TDS. L/out 8 jts DP and work on TDS

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS Report # 19 02/06/2002

Total Depth	(m)	:	1287	**Casing Depth**	(m) :	866.00	**Operator Reps** : Ron King, Gavin Othen
Drilled last 24 hrs	(m)	:	368	**Casing Diameter**	(in) :	9.625	**SSDS Reps** : Digby Thomas (19), Tim Gallagher (19)
Hole Size	(in)	:	8.500	**Casing ID**	(in) :	8.681	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
1285.13	90.07	235.48	672.33	793.78	S56.55W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 5: 1208.14 m; Bit #4 (26.25 hrs), PDM #4 (28.5 hrs), MWD, MWD, Other, Sub, 3x HWDP, Jar, 3x HWDP, DP (S), HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.16	64	12	44.0	19.0 / 25.0	5	9.5	6.00	0.10	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	03:00	3.00	919.00	5	Cont. lay out 2 jts DP. Repair TDS electrical fault
03:00	14:30	11.50	1100.00	5	Drill 8½" hole f/919m to 1100m
14:30	15:30	1.00	1100.00	5	Circulate up sample
15:30	00:00	8.50	1287.00	5	Drill 8½" hole f/1100m to 1287m

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3 ST1
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS Report # 20 03/06/2002

Total Depth	(m)	:	1144	Casing Depth	(m)	:	866.00	Operator Reps : Ron King, Gavin Othen
Drilled last 24 hrs	(m)	:	7	Casing Diameter	(in)	:	9.625	SSDS Reps : Digby Thomas (20), Tim Gallagher (20)
Hole Size	(in)	:	8.500	Casing ID	(in)	:	8.681	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
1115.30	92.07	238.42	677.96	624.26	S56.01W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 5: 1208.14 m; Bit #4 (35.25 hrs), PDM #4 (39. hrs), MWD, MWD, Other, Sub, 3x HWDP, Jar, 3x HWDP, DP (S), HWDP
BHA 6: 1208.14 m; Bit #4rr1 (39.75 hrs), PDM #5 (43.5 hrs), MWD, MWD, Other, Sub, 3x HWDP, Jar, 3x HWDP, DP (S), HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.18	62	15	37.0	16.0 / 26.0	5	9.5	7.00	0.10	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	03:30	3.50	1352.00	5	Drill 8½" hole f/1287m to 1352m
03:30	05:00	1.50	1352.00	5	Circulate bttms up and flow check, ok.
05:00	07:00	2.00	1352.00	5	Pump out of hole to1050m
07:00	10:30	3.50	1352.00	5	Wash/ream and relog hole from 1050 to1200m
10:30	12:00	1.50	1352.00	5	Trip Out to shoe at 866m
12:00	14:00	2.00	1352.00	5	Trip Out to surface
14:00	15:30	1.50	1352.00	5	Download LWD. Inspect motor & bit. Re-programme LWD
15:30	18:00	2.50	1352.00	6	RIH to 1165m
18:00	19:00	1.00	1352.00	6	Attempt to sidetrack f/1165m. No success. Pull back to 1137m
19:00	19:30	0.50	1352.00	6	Work pipe prior to commencing sidetrack
19:30	19:30	0.00	1137.00	6	Baleen #3 ST1
19:30	00:00	4.50	1144.00	6	Time drill f/1137m to 1144m

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3 ST1
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS Report # 21 04/06/2002

Total Depth	(m)	: 1555	Casing Depth	(m)	: 866.00	Operator Reps	: Ron King, Gavin Othen
Drilled last 24 hrs	(m)	: 411	Casing Diameter	(in)	: 9.625	SSDS Reps	: Digby Thomas (21), Tim Gallagher (21)
Hole Size	(in)	: 8.500	Casing ID	(in)	: 8.681		

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
1546.19	95.32	232.23	710.39	1051.45	S55.37W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 6: 1208.14 m; Bit #4rr1 (60.5 hrs), PDM #5 (64.75 hrs), MWD, MWD, Other, Sub, 3x HWDP, Jar, 3x HWDP, DP (S), HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.22	59	15	39.0	17.0 / 25.0	5	9.0	7.00	0.10	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	20:45	20.75	1555.00	6	Drill 8½" hole f/1144m to 1555m
20:45	21:15	0.50	1555.00	6	Circulate until shakers clean
21:15	00:00	2.75	1555.00	6	B/ream OOH f/1555m to 1100m. POOH to 1027m

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Baleen #3 ST1
Block : Vic/L21
Location : Gippsland Sub basin
Rig : Ocean Bounty
Job # : AU-DD-02023

CURRENT STATUS Report # 22 05/06/2002

Total Depth	(m)	:	1555	**Casing Depth**	(m)	:	866.00	**Operator Reps** : Ron King, John Kendrick
Drilled last 24 hrs	(m)	:	0	**Casing Diameter**	(in)	:	9.625	**SSDS Reps** : Digby Thomas (22), Tim Gallagher (22)
Hole Size	(in)	:	8.500	**Casing ID**	(in)	:	8.681	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
1546.19	95.32	232.23	710.39	1051.45	S55.37W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 6: 1208.14 m; Bit #4rr1 (60.5 hrs), PDM #5 (70.25 hrs), MWD, MWD, Other, Sub, 3x HWDP, Jar, 3x HWDP, DP (S), HWDP

MUD DATA

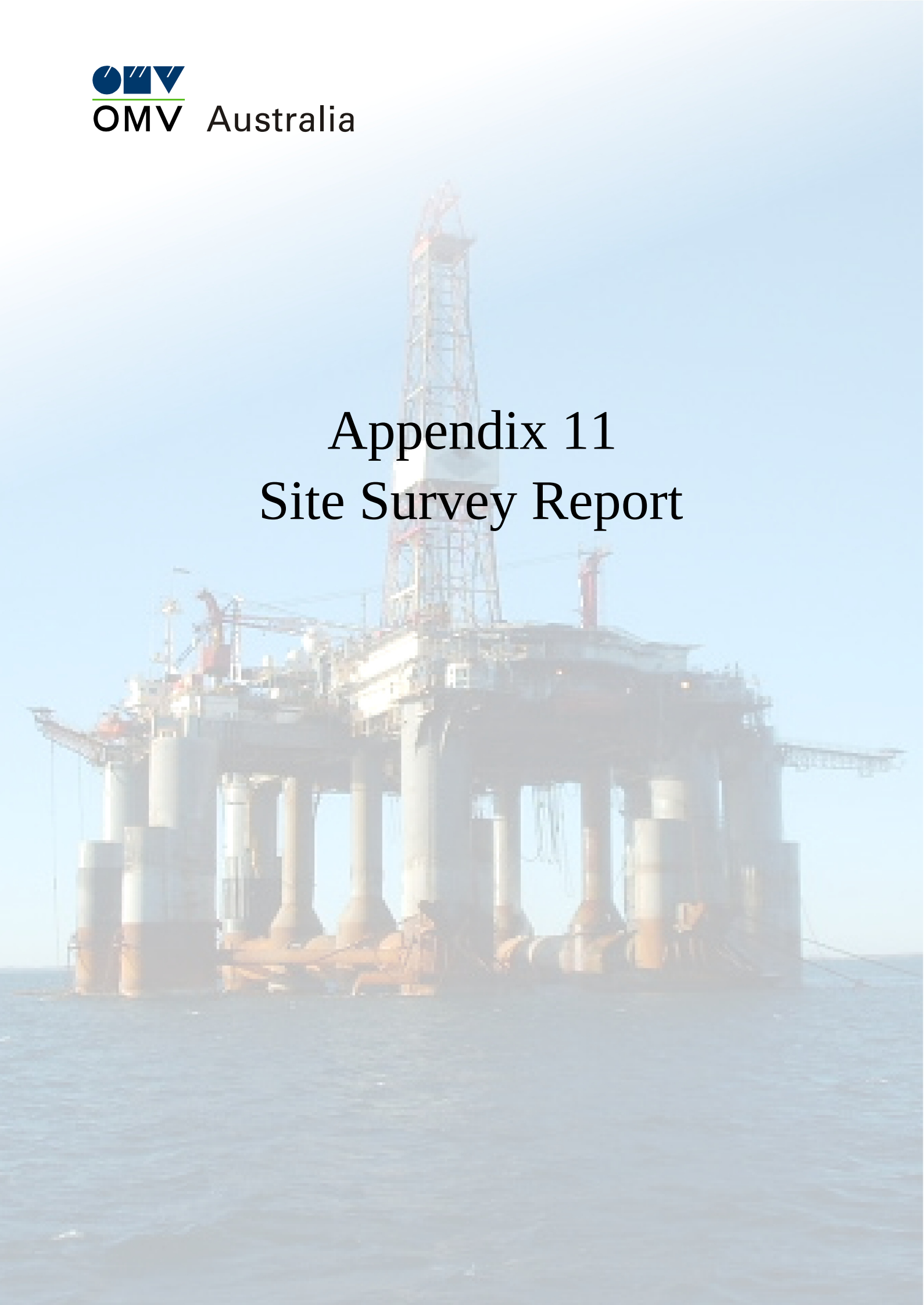
Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.22	59	15	39.0	17.0 / 25.0	5	9.0	7.00	0.10	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:30	0.50	1555.00	6	Trip In to 1553m
00:30	02:00	1.50	1555.00	6	Circulate bttms up x 2
02:00	03:00	1.00	1555.00	6	Pump brine 190 bbls
03:00	03:30	0.50	1555.00	6	Flow check and trip out from 1553 to 760m
03:30	06:30	3.00	1555.00	6	Displace to KCL brine
06:30	07:30	1.00	1555.00	6	Trip Out
07:30	09:30	2.00	1555.00	6	Rack back BHA, download LWD, break bit
09:30	00:00	14.50	1555.00		Run Casing / Cement

COMMENTS

OMV Australia



Appendix 11
Site Survey Report

Baleen-3 Site Survey Report

Prepared for
OMV Australia Pty Ltd

Report No: 3347C1

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Prepared for

OMV

OMV AUSTRALIA PTY LTD

DOCUMENT TITLE	:	BALEEN-3 SITE SURVEY REPORT
CLIENT	:	OMV AUSTRALIA PTY LTD
LOCATION	:	GIPPSLAND BASIN, BASS STRAIT
PERMIT	:	VIC\L21
REPORT REF.	:	3347C1
REPORT REV NO.	:	0
REPORT ISSUE DATE	:	4 APRIL 2002
SURVEY DATE	:	15 - 20 MARCH 2002

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Figure 2: 100kHz side scan sonar data example. Illustrating east-west oriented bodies of low reflectivity seabed. Interpreted to consist of loose/soft clayey SAND with some shell fragments. Line BP3. Heading 052°.

Figure 3: 100kHz side scan sonar data example. Illustrating moderate reflectivity seabed interpreted to consist of fine to coarse SAND with abundant shell and rock fragments at the proposed Baleen-3 location. Line BP11. Heading 052°.

Figure 4: 100kHz side scan sonar data example. Illustrating moderate reflectivity seabed exhibiting mottled textures believed to be caused by an increase in cemented sand fragments within the surficial sediments. Line BP5. Heading 052°.

Figure 5: 100kHz side scan sonar data example. Illustrating seabed scars believed to be trawler scars. Line BP16. Heading 232°.

Figure 6: Boomer sub-bottom data example. Illustrating the shallow geology at the proposed Baleen-3 location. Note the southerly bedding structure in Unit D. Line BX4. Heading 322°.

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B - OFFSET DIAGRAM - BLUEFIN

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I - VELOCITY OF SOUND IN SEAWATER PROFILE

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K - FIELD SEABED SAMPLE DESCRIPTIONS

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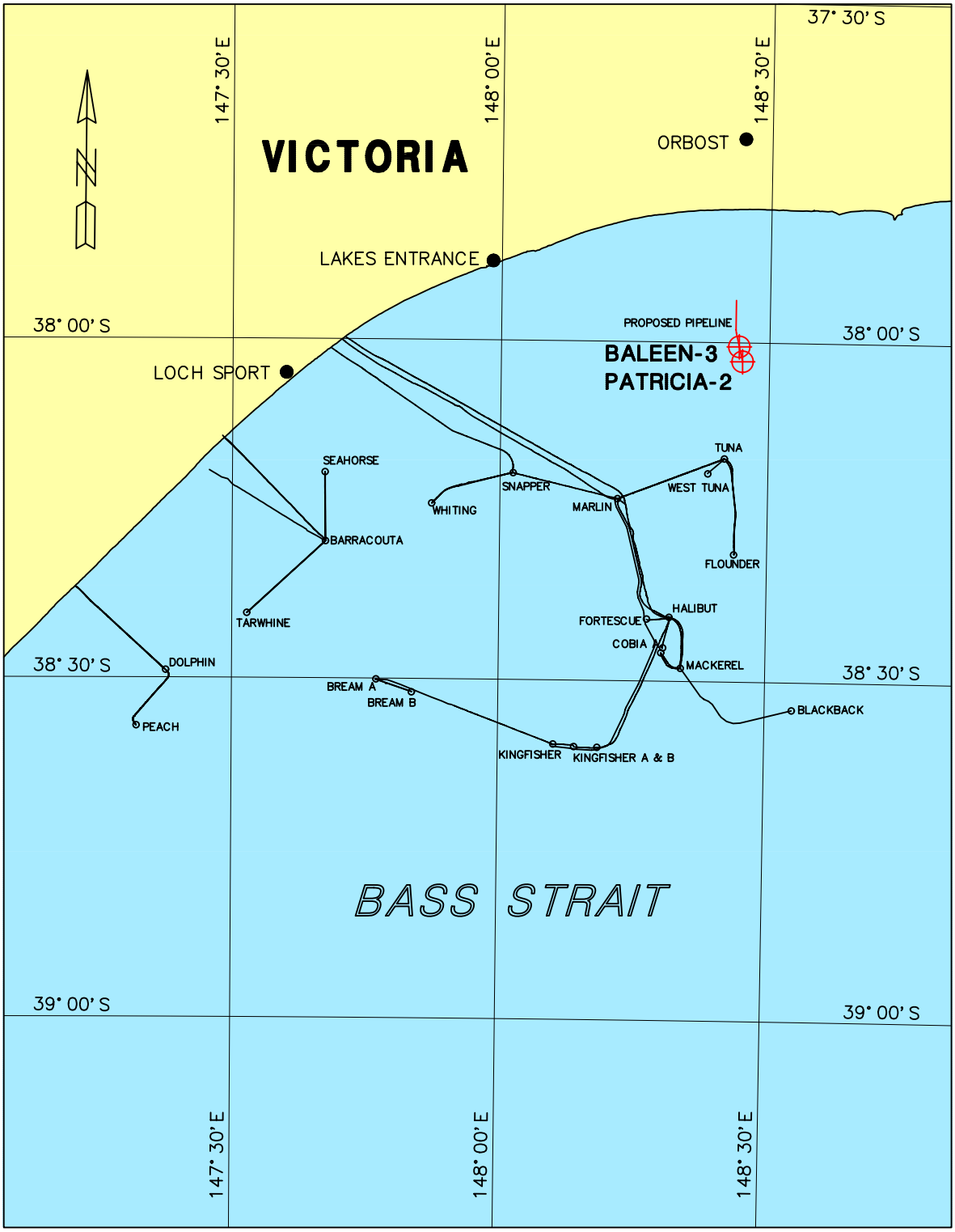
LOCATION DIAGRAM



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1. INTRODUCTION

Positioning, bathymetric and geophysical services were provided by Thales GeoSolutions (Australasia) Limited (Thales) for a survey of the proposed Baleen-3 location for OMV Australia Pty Ltd (OMV) in the Gippsland Basin, Bass Strait, offshore Victoria. All survey requirements and operating procedures were undertaken in accordance with the agreement between Thales and OMV. The survey was undertaken to investigate the suitability of the area for the positioning of a semi-submersible drill rig.

The survey vessel, Bluefin, was used to conduct the survey. All necessary survey positioning, geophysical and geotechnical equipment were installed and calibrated prior to the commencement of the survey. A Trimble 4000 Series Global Positioning System (GPS) receiver was used in conjunction with Thales' SkyFix/SkyFix Spot Differential GPS and associated equipment to provide on-line positioning. An Atlas Deso 15 single beam echo sounder, dual frequency GeoAcoustics side scan sonar with Coda data logging, EG&G surface tow boomer sub-bottom profiling systems with Coda data logging and Geometrics G-880 magnetometer, were used for geophysical data acquisition.

The survey site consisted of a 3.0km (azimuth 052°-232°) x 2.0km (azimuth 142°-322°) rectangular area defined by the following corners co-ordinates:

Datum: AGD66, Projection: AMG Zone 55, CM 147° East

Northwest corner:	626 848.75m East, 5 793 943.37m North
Northeast corner:	628 080.07m East, 5 792 367.35m North
Southeast corner:	625 716.04m East, 5 790 520.37m North
Southwest corner:	624 484.72m East, 5 792 096.39m North

OMV also supplied co-ordinates of Baleen-1 wellhead (drilled 1981) and Baleen-2 wellhead (drilled 1999):

Baleen-1 Well, wellhead removed

Datum: AGD66

Latitude	:	038° 00′ 36.63″ South
Longitude	:	148° 26′ 08.40″ East

Projection: AMG Zone 55, CM 147° East

Easting	:	626 033.96m
Northing	:	5 792 068.94m

Baleen-2 Well, wellhead removed

Note that Baleen-2 wellhead falls outside the site survey area boundaries.

Datum: AGD66

Latitude	:	038° 01′ 55.76″ South
Longitude	:	148° 24′ 37.55″ East

Projection: AMG Zone 55, CM 147° East

Easting	:	623 781.44m
Northing	:	5 789 663.85m

The following co-ordinates were supplied by OMV for the proposed Baleen-3 location:

Proposed Baleen-3 location

Datum: AGD66

Latitude	:	038° 00′ 21.04″ South
Longitude	:	148° 26′ 34.44″ East

Projection: AMG Zone 55, CM 147° East

Easting	:	626 676.40m
Northing	:	5 792 539.70m

The survey included 21 primary lines spaced at 100m and 3.0km long on an orientation of 052°-232°. The cross lines consisted of five 2km long lines on an orientation of 142°-322° and spaced at 500m. Two primary lines, BP6 and BP7, were extended by 2300m and 2400m respectively to cover the Baleen-2 abandoned well site. A short northeast trending line BP6S, 350m long was also run at the Baleen-2 wellhead site. The full suite of geophysical equipment consisting of echo sounder, sidescan sonar and sub-bottom profiler (boomer) was operated simultaneously on all lines except Line BP6S.

At the end of the survey, additional lines were run with the magnetometer only over the Baleen-1 abandoned wellhead (4 lines) and the Baleen-2 abandoned wellhead (4 lines). The aim of the magnetometer survey was to confirm the location of the wellheads.

Seabed sampling was successfully undertaken at two locations across the survey area, the results of which have been used to ground truth the geophysical data.

The survey was carried out between15 and 20 March 2002.

All times are quoted in Eastern Daylight Time (UTC + 11 hours).

2. SUMMARY OF SURVEY RESULTS

Bathymetry

All soundings have been reduced to the Lowest Astronomical Tide (LAT) based on the tidal predictions obtained from WNI for the survey area generated for the Proposed Location (38° 01′ 00″ South, 148° 26′ 57″ East, refer to Drawing No. 3352C1-02). LAT is approximately 0.7m below Mean Sea Level (MSL) or the Australian Height Datum (AHD) (see Appendix L).

The nearest observable water depth to the proposed Baleen-3 location is 51.9m. The minimum water depth observed within the survey area is 50.4m found approximately 400m south of the proposed Baleen-3 location. The maximum water depth observed is 54.4m found in the southwestern corner of the site survey area.

Across the survey area, the seabed shoals very gently (seabed gradient <<1°) to the northeast. The seabed surrounding the proposed Baleen-1 location is essentialy flat and free of steep slopes and bathymetric anomalies.

Seabed features

A low reflectivity seabed interpreted as loose/soft clayey SAND with some shell fragments occupies less than 10% of the Baleen-3 site survey area. The occurrence of this seabed type is elongated and indicates a probable current direction trending east to west.

Over 90% of the seabed within the site survey area is a moderate reflectivity seabed interpreted as fine to coarse SAND with some shell and rock fragments. The moderately reflective character of this seabed type may be indicative of a slightly coarser average grain size compared to the other seabed type. Two grab sample was recovered within this seabed type.

The proposed Baleen-3 location falls within the moderate reflectivity seabed.

Shallow geology

The shallow stratigraphy in the survey area has been defined as follows:

Stratigraphy	Description
Unit A	Loose to medium dense shelly SANDS and soft to stiff CLAYS.
Unit B	Medium dense to dense shelly SANDS and stiff CLAYS.
Unit C	Variably cemented SANDS.
Unit D	Cemented sediments.

The shallow geological stratigraphy at the proposed Baleen-3 location is defined as follows:

Top of Unit	Depth Below Seabed (m)	Unit Thickness (m)	Predicted Lithology
A	0	2.5	Loose to medium dense shelly SANDS and soft to stiff CLAYS.
B	2.5	1.5	Medium dense to dense shelly SANDS and stiff CLAYS.
C	4.0	2.0	Variably cemented SANDS.
D	6.0	> 4.0 to beyond the limit of useful seismic penetration	Cemented sediments.

Shallow Gas Risk Assessment

Using the method of shallow gas risk assessment outlined in section 3.6 of this report, the risk of shallow gas is defined as slight (gas unlikely) at the proposed Baleen-3 location and within the limit of useful boomer penetration.

Seabed Sampling

Two grab samples of the seabed were collected within the site survey area, the results of which have been used to ground truth the geophysical data.

3. SURVEY RESULTS

3.1 BATHYMETRY

Analogue and digital soundings of the seafloor were obtained using an Atlas Deso 15 echo sounder with dual frequency 210kHz and 33kHz transducers. The data was corrected for heave using a TSS DMS 2-05 motion sensor. The transducers were mounted onto the starboard side of the vessel and a bar check was carried out prior to commencement of the survey. A draft setting of 1.54m was obtained for the 33kHz and the 210kHz transducers on 17 March 2002 and entered into the echo sounder (see Appendix F).

All soundings have been reduced to the Lowest Astronomical Tide (LAT) based on the tidal predictions obtained from WNI for the survey area generated for the Proposed Location (38° 01′ 00″ South, 148° 26′ 57″ East, refer to Drawing No. 3352C1-2). LAT is approximately 0.7m below Mean Sea Level (MSL) or the Australian Height Datum (AHD) (see Appendix L).

Bathymetric data quality was generally good with no miss-tie. Maximum miss-ties observed were up to 0.3m.

The velocity of sound in seawater was determined prior to the commencement of the survey by the deployment of an Applied Microsystems Model SVPlus Velocity Profiler Probe. A mean velocity of sound of 1516m/s was determined and entered into the echo sounder on 18 March 2002 (see Appendix I).

The bathymetric soundings are representative of the seafloor topography and are plotted on Drawing No. 3347C1-2 (scale 1:5000) and contoured at 1 metre intervals.

The nearest observable water depth to the proposed Baleen-3 location is 51.9m. The minimum water depth observed within the survey area is 50.4m found approximately 400m south of the proposed Baleen-3 location. The maximum water depth observed is 54.4m found in the southwestern corner of the site survey area.

Across the survey area, the seabed shoals very gently (seabed gradient <<1°) to the northeast. The seabed surrounding the proposed Baleen-1 location is essentially flat and free of steep slopes and bathymetric anomalies.

A dual frequency single beam echo sounder data example at the proposed Baleen-1 location is shown as Figure 1.

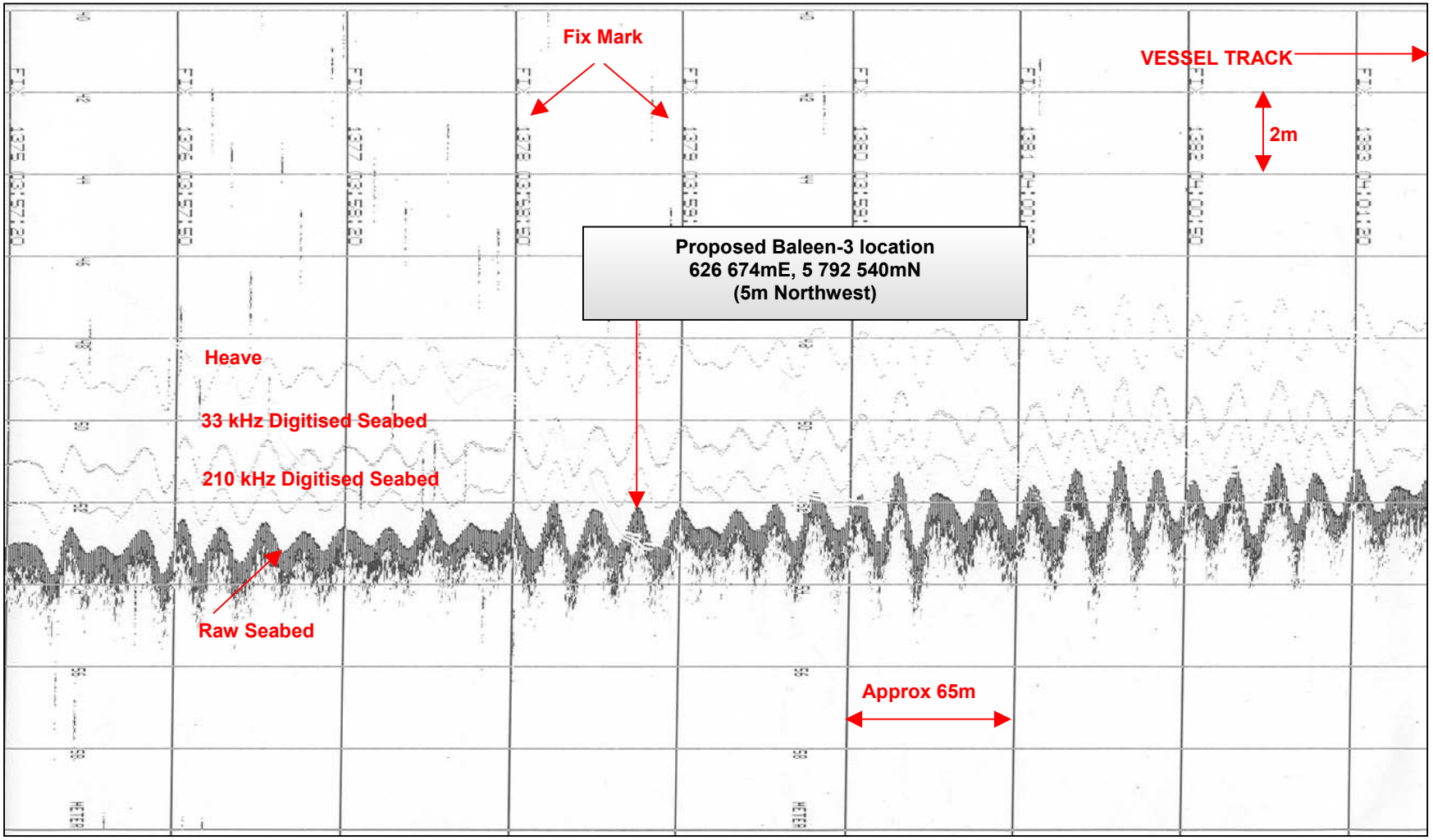


Figure 1 : Atlas Deso 15 single beam echo sounder data example. Illustrating the seabed at the proposed Baleen-3 location. Line BP11. Heading 052°

3.2 SEABED FEATURES

The textural characteristics and reflective strengths of the seafloor around the survey area were investigated by the deployment of a dual frequency GeoAcoustics side scan sonar system. The system consists of a GeoAcoustics side scan sonar transceiver and towfish operated at 100kHz, a Coda DA200 Digital Recorder and an Alden 9315 CTP printer. The data was digitally recorded using the Coda Acquisition System to allow further processing or replay. The side scan sonar was set at 125m slant range, with interval scaling lines at 10m, providing over 100% data overlap on a 100m primary line spacing.

Two grab sample were recovered from two locations within the 3km x 2km site survey area. These samples were used to ground truth the geophysical data. Correlation between seabed sample and sonar acoustic reflectivity across the survey area enables textural characteristics to be interpreted in terms of sediment lithology and plotted on the seabed features drawings (Drawing 3347C1-03).

Side scan sonar data quality was good. Insonification of the seabed was generally achieved to the limit of the selected slant range, and adequate to produce the required coverage.

Seabed sediments within the survey area have been interpreted and classified into the following acoustic and lithological seabed categories:

Low reflectivity seabed interpreted as loose/soft clayey SAND with some shell fragments.

This seabed type occupies less than 10% of the Baleen-3 site survey area and consists of loose/soft clayey SAND with some shell fragments. It is characterised by a flat, low reflectivity seabed with well defined to gradational sediment textural boundaries. The textural boundaries are elongate indicating a probable current direction trending west to east (Figure 2).

One gravity core sample was recovered in this seabed type in the adjacent Patricia-2 site survey area. The sample consists of a thin layer of loose shelly SAND at the seabed overlaying firm to stiff CLAY.

Moderate reflectivity seabed interpreted as fine to coarse SAND with abundant shell and rock fragments.

This seabed type occupies over 90% of the Baleen-2 site survey area and consists of fine to coarse SAND with abundant shell and rock fragments. It is characterised by a flat, moderate reflectivity seabed with well defined to gradational sediment textural boundaries (see Figure 3).

The moderately reflective character of this seabed type may be indicative of a slightly coarser average grain size compared to the low reflectivity seabed type. Two grab samples were recovered in this seabed type. Both samples consist of loose fine to coarse sands containing variable amount of shell and rock fragments.

The proposed Baleen-3 location falls within this type of seabed (Figure 3).

Megaripples were observed in this type of seabed in a small area 800m south of the Baleen-3 location. The megaripples are oriented north-south, across the prevailing current direction and are characterised with wavelength of 10m and amplitude of 0.5m.

In the southeast corner of the survey area, this seabed exhibits mottled textures that are believed to be caused by an increase in cemented sand fragments within the superficial sediments (Figure 4).

Several seabed scars were observed in this type of seabed on the side scan sonar records. The seabed scars are trending north-northwest and they are more abundant in the northeastern third of the site survey area (Figure 5). These seabed scars are believed to be trawler scars.

The seabed is clear of debris and obstruction in the vicinity of the proposed Baleen-1 location.

Baleen-1 wellhead location

The Baleen-1 well drilled in 1981 is located approximately 800m southwest of the proposed Baleen-3 location. The Baleen-1 wellhead was removed and the well location could very faintly be seen on the side scan sonar records of line BP12, port side between fixes 1750 and 1751.

Positional Considerations

The accuracy of derived dimensions is dependent on the quality of the side scan sonar data. Adverse operating conditions can produce effects such as tow fish heave and yaw, which reduce interpretation accuracy.

The accuracy with which a sonar contact or seabed feature can be positioned is dependent on a number of factors. Survey considerations are of primary importance, as position accuracy ultimately depends on the accuracy with which both the vessel and tow fish can be positioned. Running adjacent survey lines in opposite directions reduces the effects of tow fish position inaccuracy, as miss-ties between lines can then be averaged to produce a best-fit position.

The position accuracy of features derived from an interpretation of side scan sonar data, is subject to additional considerations that are independent of the data quality issues discussed above. Such potential errors include those associated with scaling, plotting and subsequent digitising of features. Additionally, certain features require a subjective interpretation.

In the survey area, the accuracy of positioning is estimated at $\pm$ 15m and the accuracy of height measured above and below ambient seabed is estimated at $\pm$ 0.5m.

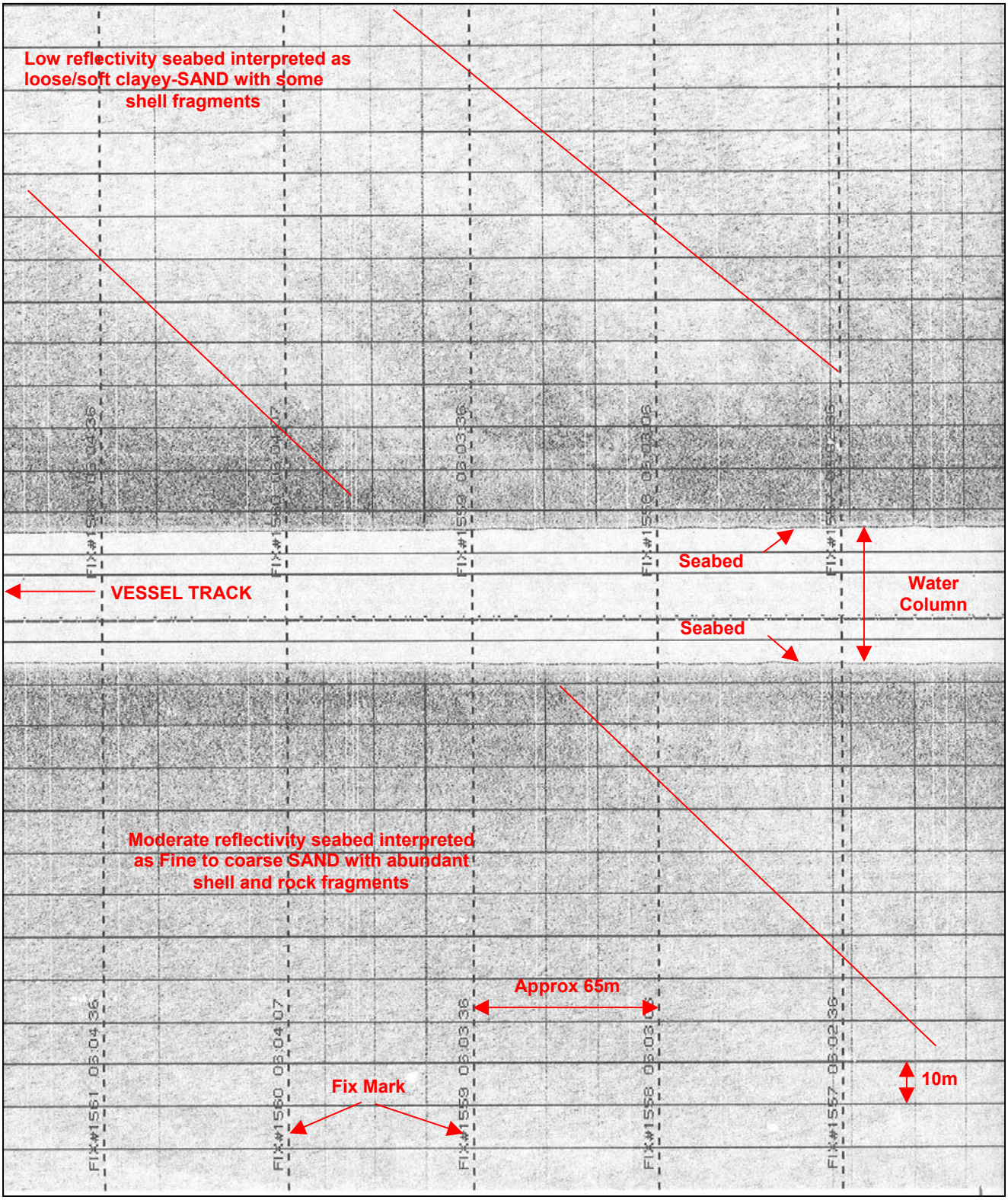


Figure 2 : 100kHz side scan sonar data example. Illustrates east-west orientated bodies of low reflectivity seabed. Interpreted to consist of loose/soft clayey SAND with some shell fragments
Line BP3. Heading 052°

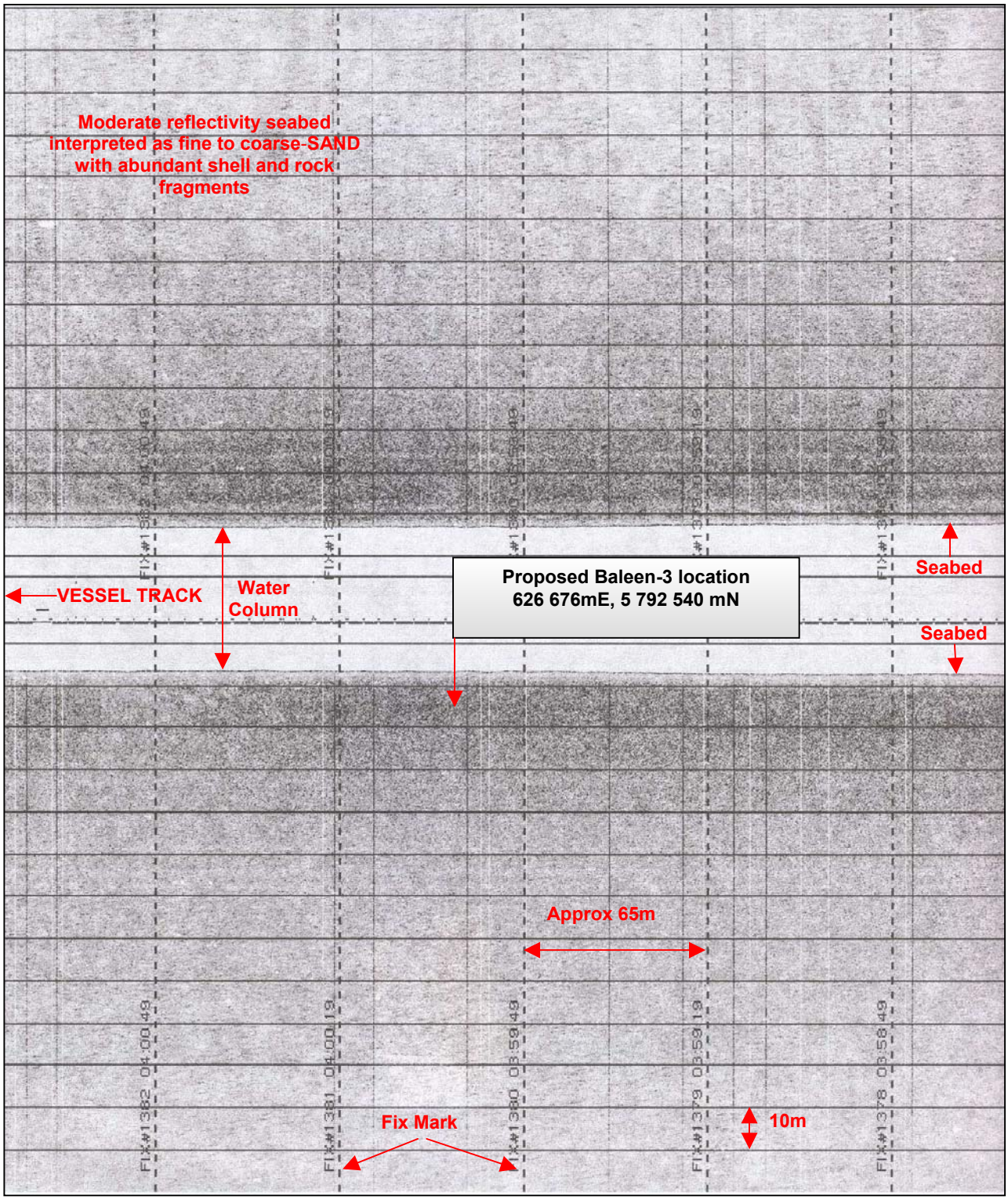


Figure 3 : 100kHz slide scan sonar data example. Illustrates moderate reflectivity seabed interpreted to consist of fine to coarse SAND with abundant shell fragments and rock fragments at the proposed Baleen-3 location.
Line BP11. Heading 052°

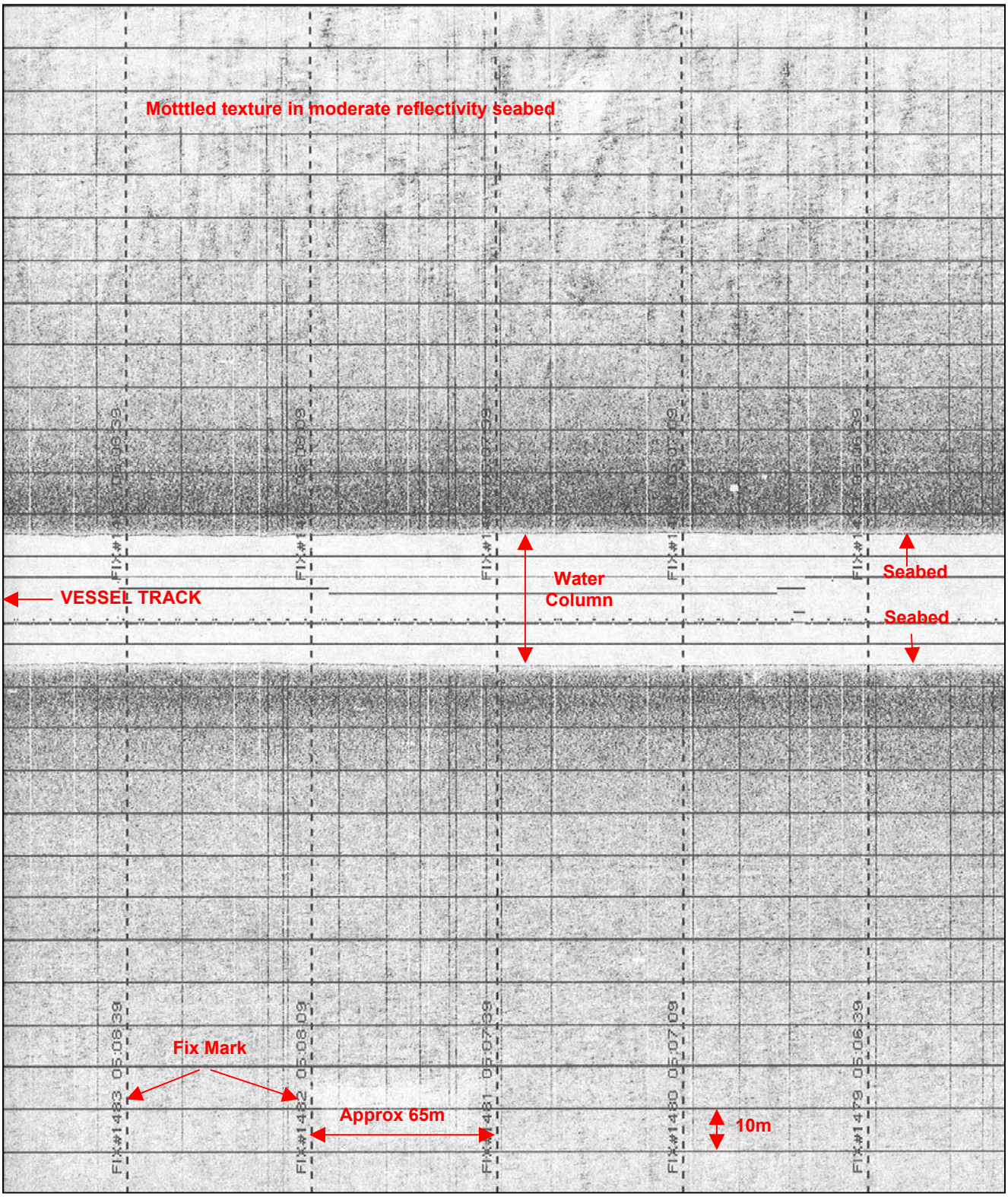


Figure 4 : 100kHz slide scan sonar data example. Illustrates moderate reflectivity seabed exhibiting mottled textures believed to be caused by an increase in cemented sand fragments within the surficial sediments
Line BP5. Heading 052°

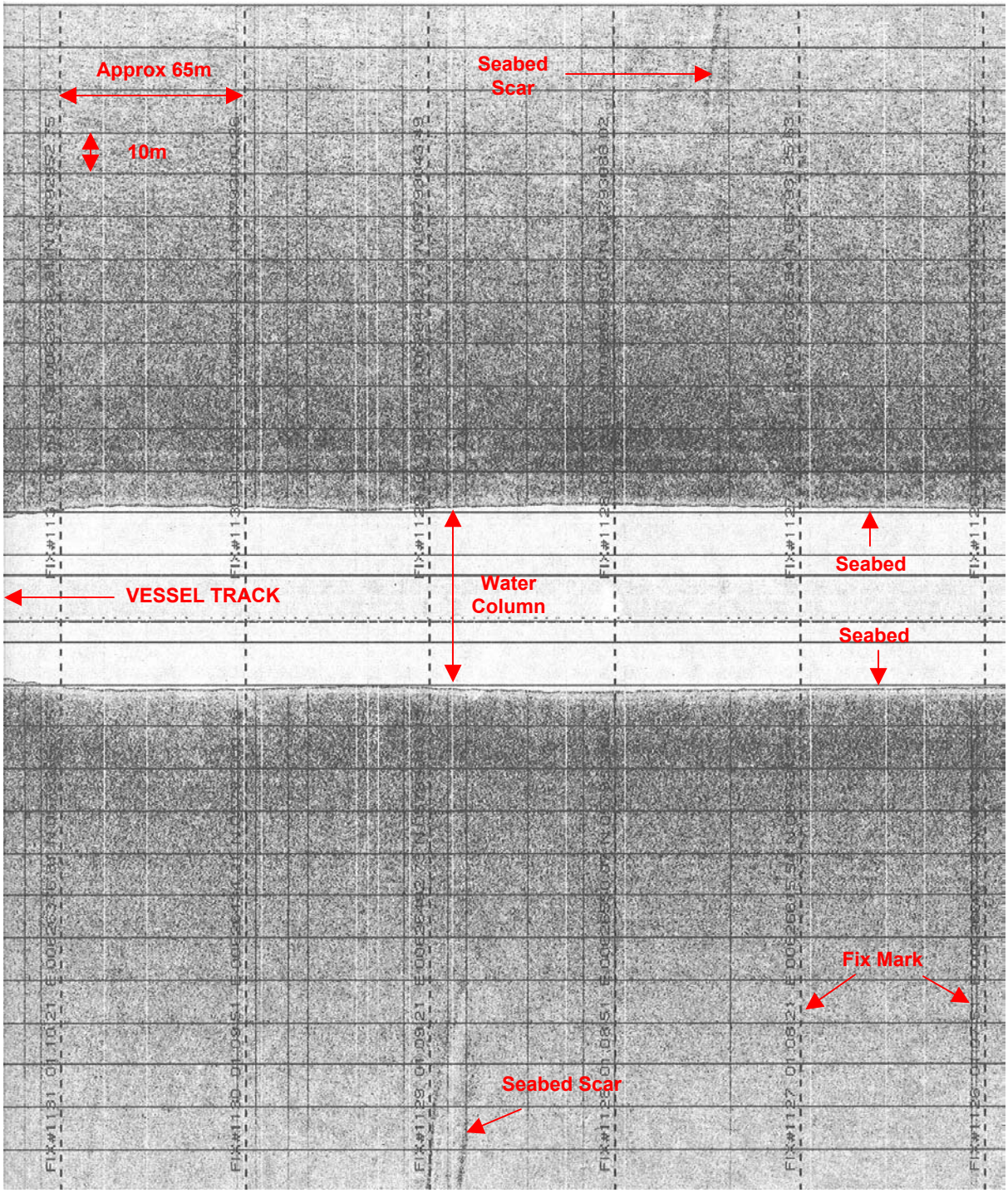


Figure 5 : 100kHz slide scan sonar data example. Illustrates seabed scars believed to be trawler scars.
Line BP16. Heading 232°

3.3 WELL HEAD MAGNETOMETER SURVEY

Analogue and digital magnetometer data were obtained using a Geometrics G-880 Cesium Marine deep tow magnetometer. The G-880 deep tow fish was towed from the stern of the Bluefin with various lay back lengths. The aim of the magnetometer survey was to confirm the location of the Baleen-1 and Baleen-2 wellheads.

Four lines were run over the Baleen-1 wellhead and four lines over the Baleen-2 wellhead.

Confirmation of the wellhead locations was reported separately to OMV.

3.4 SHALLOW GEOLOGY

The shallow geology of the survey area was interpreted from data acquired by the deployment of an EG&G 230 surface tow boomer. Analogue seismic data was recorded on a CODA DA200 Digital Recorder and an Alden 9315 CTP printer. The data was digitally recorded using the CODA Acquisition System to allow further processing or replay. The boomer data was recorded with a sweep of 135ms of which 85ms was displayed on a hard copy printout using an Alden 9315 CTP printer. The firing interval was 410ms and a power level of 300 Joules was supplied by an Applied Acoustics, high voltage energy source. The printed sub-bottom data was TVG amplified to compensate for signal loss and a band-pass filter (400Hz to 4.0kHz) was applied.

Sub-bottom profiler data quality was good considering the poor weather conditions. The limit of penetration reached with the sub-bottom profiler (or limit of useful acoustic penetration) was generally 10m below seabed but reached a maximum of 18m below seabed. Boomer data could not be interpreted below this depth.

Sediment thickness was calculated using an assumed acoustic velocity of 1600m/s for the time to depth conversion. The stratigraphy in the survey area has been categorised as follows:

Stratigraphy	Description
Unit A	Loose to medium dense shelly SANDS and soft to stiff CLAYS.
Unit B	Medium dense to dense shelly SANDS and stiff CLAYS.
Unit C	Variably cemented SANDS.
Unit D	Cemented sediments.

The thickness of Unit A (seabed to reflector R1) was mapped across the survey area and plotted on an isopach drawing contoured at one metre interval (Drawing 3347C1-04). The shallow geology is represented on cross-sections through the proposed Baleen-3 location in Drawing 3347C1-05.

The shallow geology is relatively homogenous across the site survey area. Unit A and Unit B have similar acoustic properties and, in places, grade into each other. They are generally flat lying and continuous across the site survey area. Unit C underlies Unit B across the entire site survey area but the thickness of Unit C is more variable, becoming much thicker in the southeastern quarter of the site survey area. Unit D underlies Unit C across the site survey area.

Boomer data examples are presented as Figure 6 and Figure 7.

Unit A : Loose to medium dense shelly SANDS and soft to stiff CLAYS

The seabed and reflector R1 bound the uppermost unit, designated Unit A. By correlation with seabed sampling in the Baleen-3 and Patricia-2 site survey areas, Unit A is interpreted to consist of loose to medium dense shelly SANDS and soft to stiff CLAYS. Unit A is present over the entire site survey area and its thickness varies from 2.0m to 4.0m. Unit A is flat lying and its thickness is relatively homogenous across the survey area.

Reflector R1, the base of Unit A, has a relatively low reflection amplitude and is laterally continuous across the survey area. In places, R1 is very poorly defined suggesting that the boundary between Unit A and Unit B is gradational.

The thickness of Unit A (seabed to reflector R1) was mapped across the survey area and presented as an isopach drawing contoured at one metre interval (Drawing No. 3347C1-04).

The thickness of Unit A is 2.5m at the proposed Baleen-3 location.

Unit B : Medium dense to dense shelly SANDS and stiff CLAYS.

The top of Unit B is defined by reflector R1, and its base is defined by reflector R2. Unit B has similar acoustic properties than Unit A suggesting that it is composed of sands and clays that are expected to be more compacted and stiffer than the overlying sediments of Unit A. Unit B underlies Unit A over the entire survey area. The thickness of Unit B varies between 1m and 3m.

The base of Unit B, reflector R2 is relatively continuous but very poorly defined (low amplitude) in places suggesting that the boundary with the underlying Unit C is gradational in these areas. No seabed sampling was obtained within Unit B.

The thickness of Unit B is 1.5m at the proposed Baleen-3 location.

Unit C : Variably cemented SANDS

The top of Unit C is defined by reflector R2 and the base is defined by reflector R3. No sampling was recovered within Unit C. Unit C is interpreted as consisting of variably cemented SANDS. Unit C underlies Unit B over the entire survey area and its thickness varies between less than 1m to 7m in the southeastern part of the survey area.

Reflector R3, the base of Unit C is laterally discontinuous suggesting that, in places the degree of cementation in the lower part of Unit C is equivalent to the cementation in the underlying Unit D. In the southeastern quarter of the survey area, reflector R3 dips relatively sharply from a depth of 6m to a depth of 12m below seabed (Figure 7). In this area, reflector R3 is characterised by anomalously high reflection suggesting that it is a ‘ hard ‘ surface marking the contact between weakly cemented sands above and more strongly cemented sediments below. It should be noted that high amplitude reflection could also be caused by small amount of gas accumulated below reflector R3. Faint southerly dipping bedding structures were observed in Unit D within the survey area and numerous bedding structures were observed in the adjacent Patricia-2 survey area suggesting that reflector R3 is an angular unconformity representing an ancient erosional surface probably related to a Pleistocene sea level regression.

The thickness of Unit C is 2.0m at the proposed Baleen-3 location.

Unit D : Cemented sediments

The top of Unit D is defined by the reflector R3 and Unit D extends to below the limit of useful acoustic penetration that is generally 10m below the seabed. No sampling was recovered within Unit D. Unit D is interpreted as consisting of cemented sediments.

Faint southerly dipping bedding structures were observed in Unit D within the survey area (Figure 6) and numerous bedding structures were observed in the adjacent Patricia-2 Survey area suggesting that Unit D has been folded and/or faulted. Reflector R3 is believed to be an angular unconformity representing an ancient erosional surface probably related to a Pleistocene sea level regression.

The shallow geological stratigraphy at the proposed Baleen-3 location is defined as follows:

Top of Unit	Depth Below Seabed (m)	Unit Thickness (m)	Predicted Lithology
A	0	2.5	Loose to medium dense shelly SANDS and soft to stiff CLAYS.
B	2.5	1.5	Medium dense to dense shelly SANDS and stiff CLAYS.
C	4.0	2.0	Variably cemented SANDS.
D	6.0	> 4.0 to beyond the limit of useful seismic penetration	Cemented sediments.

A boomer data example at the proposed Baleen-3 location is presented as Figure 6.

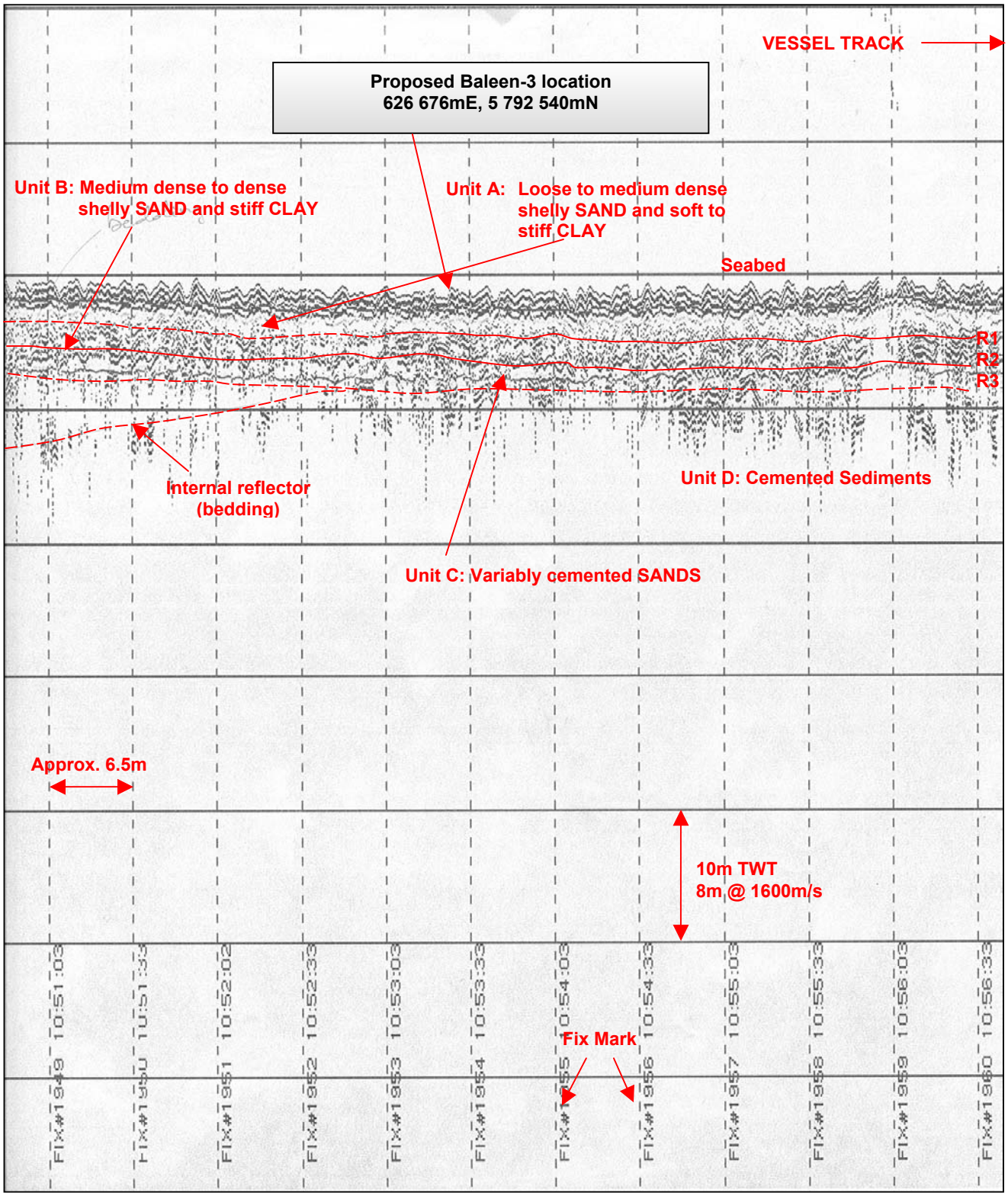


Figure 6 : Boomer sub-bottom data examples. Illustrates the shallow geology at the proposed Baleen-3 location. Note the southerly bedding structure in Unit D. Line BX4 . Heading 322°

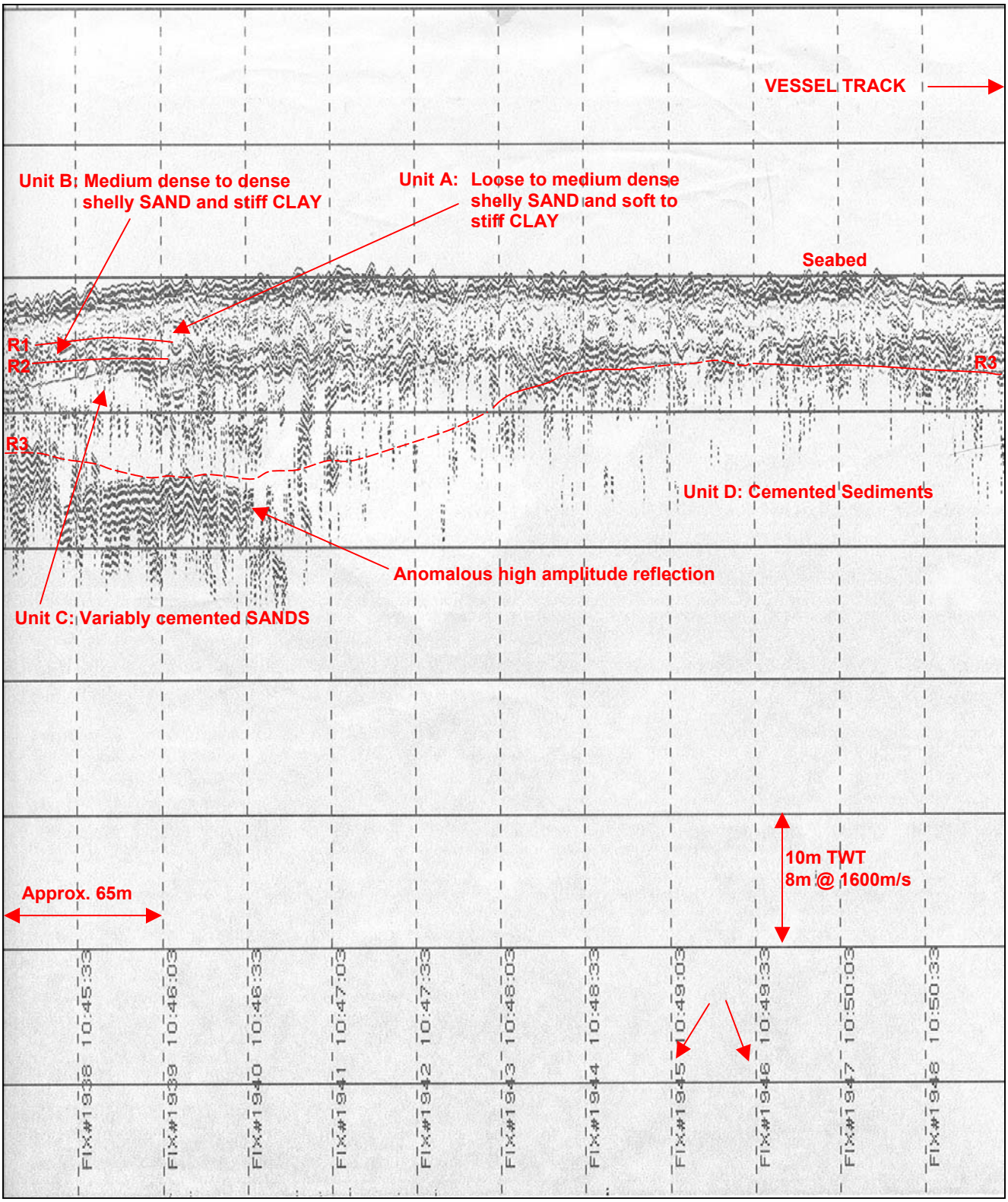


Figure 7 : Boomer sub-bottom data examples. Illustrates the shallow geology in the southeastern quarter of the survey area. Note the anomalous high amplitude reflection exhibited by reflector R3. Line BX4. Heading 322°

3.5 SHALLOW GAS RISK ASSESSMENT

The limit of penetration reached with the subbottom profiler (or limit of useful acoustic penetration) was generally 10m below seabed. In the southeastern quarter of the survey area, where reflector R3, the base of Unit C dips sharply to 12m below seabed, the limit of useful acoustic penetration is up to 16.0m below seabed. Boomer data could not be interpreted below this depth due to the strongly cemented and relative hard nature of the cemented sediments of Unit D.

In places, and particularly in the southeastern quarter of the survey area, reflector R3 exhibits anomalously high amplitude reflection. This has been interpreted as indicating that the degree of cementation in the upper part of Unit D is significantly stronger than in the overlying Unit C. Anomalously high amplitude reflection can also be an indication of the presence of shallow gas accumulation in the upper part of Unit D.

No other criteria suggesting the presence of shallow gas was observed on the bathymetry, side scan sonar and boomer records.

Using the method of shallow gas risk assessment outlined in section 3.6 of this report, the risk of shallow gas is defined as slight (gas unlikely) at the proposed Baleen-3 location.

3.6 STANDARD METHOD OF SHALLOW GAS RISK ASSESSMENT

The shallow gas hazard assessment consisted of the following:

- Analysis of side scan sonar / echo sounder data attributes, which included the following:
  - Disturbed seabed and / or numerous pockmarks
  - Areas of high reflectivity seabed
  - Evidence of gas within the water column
- Lithological / structural evidence e.g. faults
- Analysis of seismic data attributes which included the following:
  - Anomalously high amplitude reflectors: high acoustic impedance contrast
  - Acoustic blanking: high signal attenuation
  - Velocity pull down of underlying reflectors: velocity reduction
  - Phase reversal: negative reflection coefficient
  - Edge effects: diffraction hyperbolae

The risk assessment criteria in this report is summarised in the following table and is dependant on the type and number of attributes observed and the magnitude or severity of these attributes.

Shallow Gas Risk Assessment Criteria

Level of Risk	Probability of Gas	Typical Seismic Characteristics
High	Gas most probable	High amplitude with 3 or 4 other well-defined features (closure, phase reversal etc.)
Moderate	Gas likely	High amplitude with 2 other subsidiary gas like features
Low	Gas possible	Moderate amplitude with 1 or 2 other features or very high reflector amplitude alone
Slight	Gas unlikely	Usually 1 or more features, but unremarkable reflector amplitude

3.7 SEABED SAMPLING

Two Van Veen Grab Samples were recovered within the site survey area. The recovered samples were photographed and logged upon recovery, sealed in plastic bags and returned to Thales Perth office for storage.

The sample descriptions are summarised in the table below and sample logs are presented in Appendix K.

Datum : AGD66 Projection: AMG Zone 55 South, CM 147° East

Sample Reference Number	Location		Brief Description
	Easting (m)	Northing (m)	
GS1	627 451	5 792 365	Medium to coarse SAND with abundant rock and shell fragments
GS2	626 682	5 792 554	Fine to coarse shelly SAND with abundant shell fragments and minor rock fragments

4. CONCLUSIONS

The nearest observable water depth to the proposed Baleen-3 location is 51.9m LAT. The seabed within a 100m radius of the proposed Baleen-3 location appears clear of any topographical features, debris or other obstruction which may be considered hazardous to semi-submersible rig installation.

The shallow geological stratigraphy at the proposed Baleen-3 location is defined as follows:

Top of Unit	Depth Below Seabed (m)	Unit Thickness (m)	Predicted Lithology
A	0	2.5	Loose to medium dense shelly SANDS and soft to stiff CLAYS.
B	2.5	1.5	Medium dense to dense shelly SANDS and stiff CLAYS.
C	4.0	2.0	Variably cemented SANDS.
D	6.0	> 4.0 to beyond the limit of useful seismic penetration	Cemented sediments.

Anchoring conditions across the survey area will be dictated by the geotechnical properties of Units A, B and C that have a combined thickness of 7m to 9m across most of the site survey area. The sediments of Units A and B are believed to consist of loose to dense sands and firm to stiff clays overlying variably cemented sands of Unit C. Cementation in the lower part of Unit C and in Unit D is expected to be significant. Although it is not possible to predict geotechnical properties of the soils from the boomer records, it is reasonable to assume that these sediments will become more dense with increasing depth below seabed.

Using the method of shallow gas risk assessment outlined in section 3.6 of this report, the risk of shallow gas is defined as slight (gas unlikely) at the proposed Baleen-3 location.

5. SAFETY

Objective

The prevention of accidents and injury is the primary objective on this and all Thales projects, and great importance is placed on ensuring and maintaining the health and safety of employees. Furthermore, Thales wishes to protect all persons with whom employees may have association during work activities. It is therefore the policy of Thales; to observe and comply with all statutory provisions and to take additional measures that it sees fit in the pursuance of safety. Thales maintains a safe working environment by employing the following measures:

a) Observe and comply with all statutory provisions.

b) Ensure that all work places are suitably equipped and free from recognised hazards that are liable to cause death, injury or illness.

c) Encourage employees to improve health and safety awareness in their own sphere of activity, to prevent injury to themselves and to other people and to report accidents and hazards to their superiors.

d) Hold all supervisory personnel responsible for developing and maintaining safety equipment where appropriate.

e) Provide employees with suitable safety equipment where appropriate.

f) Seek ways of improving health and safety in the work environment.

g) Encouraging the use of the 'Stand Back, 5 by 5' work safety ethic.

To facilitate the implementation of these measures Thales produces the following documents; Survey Safety Manual, Project Manual (includes Safety Management Plan), and Emergency Response Plan.

Project Induction and Safety Meeting

A general Project Induction and Safety Meeting was held at 0800 on 15 March 2002 onboard the Bluefin, prior to the start of mobilisation. A further safety meeting and fire & abandonment drill was held at 1730 on 16 March 2002. The subsequent safety meeting was held to go into further detail of the safety requirements expected from the Client, Thales and Australian Maritime College (AMC). The Client Representative, Thales and AMC personnel attended the Project Induction and Safety Meeting.

The Thales Party Chief discussed the Following topics:

1. Thales personnel introductions.
2. Project briefing of the survey campaign.
3. Introduction of Thales Operations Policies including Thales Health and Safety Policy, Environmental Policy, Drugs and Alcohol Policy, Injury Management Policy and Procedures, and Quality Policy.
4. The effective implementation of Thales Policies under the Thales Safety Management Systems (SMS).
5. Legislation and Regulations applicable to Thales Operations, particularly offshore operations.
6. Hazard Identification and Assessment (the introduction of Thales U-See, U-Act Safety System and the Stepback 5x5 process), Risk Assessment and Job Safety Analysis (JSA) with particular discussion directed toward equipment deployment / recovery and geotechnical coring operations.

7. Thales Emergency Response Plan and the process for accident / incident reporting and investigations.
8. Safety documentation supporting Thales SMS including Thales Manuals, Legislation and Acts, Safety Work Instructions, Safety Notes, Safety Forms, Codes of Practice and Guidance Notes.
9. The appropriate use of Personal Protective Equipment (PPE) including coveralls, safety footwear, safety helmets, safety glasses, hearing protection devices, safety gloves and the mandatory use of life vests during operations near the vessels stern.
10. Thales' Underwater Engineers to control all back deck operations involving equipment deployment / recovery and geotechnical coring.

The AMC Vessel Master discussed the Following topics:

1. AMC personnel introductions.
2. Vessel safety onboard the Bluefin.
3. Emergency procedures, muster points and alarms.
4. General reinforcement of Thales Safety Management System (SMS).

Vessel Inductions

AMC held vessel inductions onboard the Bluefin on 15 March 2002. All Thales personnel and the Client Representative were required to undertake the vessel induction.

Job Safety Analysis (JSA) Meetings

Job Safety Analysis meetings were undertaken prior to all facets of the survey. A JSA was held for the following operations; vessel mobilisation, equipment installation, vessel operations, deployment / recovery of equipment, velocity profile dip and coring operations. Particular emphasis was directed towards safety near the stern of the vessel, with all non-essential personnel required to remain clear of equipment deployment and geotechnical coring operations. The use of PPE was re-iterated. The process of communication between the back deck and bridge was outlined during each JSA to ensure personnel wee informed during each phase of the operation.

JSA worksheets are detailed in the Thales Safety Management Plan.

Incidents

There were no safety incidents reported for the project.

6. GEODETIC PARAMETERS

Co-ordinates shown in this report are referred to the Australian Geodetic Datum 1966 (AGD66). The Global Positioning System (GPS) is referenced to the World Geodetic System 1984 (WGS84).

6.1 DATUMS

Datum	:	**ITRF92 (Epoch 1994.0) WGS84 G730**
Spheroid	:	WGS84
Semi-major Axis (a)	:	6 378 137.000m
Semi-minor Axis (b)	:	6 356 752.314m
Eccentricity Squared (e^2)	:	0.006 694 380
Flattening ($^1/_f$)	:	298.257 223 563
Datum	:	**Australian Geodetic Datum AGD66**
Spheroid	:	Australian National Spheroid
Semi-major Axis (a)	:	6 378 160.000m
Semi-minor Axis (b)	:	6 356 774.719m
Eccentricity Squared (e^2)	:	0.006 694 542
Flattening ($^1/_f$)	:	298.25

6.2 PROJECTION

Projection Name	:	Australian Map Grid 1966 (AMG66)
Projection Type	:	Universal Transverse Mercator (UTM)
AMG Zone	:	55
Central Meridian (CM)	:	147° East
Scale factor on the CM	:	0.9996
False Easting	:	500 000m
False Northing	:	10 000 000m
Latitude of Origin	:	0° (Equator)
Unit of Measure	:	International Metre

6.3 DATUM TRANSFORMATION

The following 7-parameter datum transformation was used to convert WGS84 co-ordinates to AGD66 co-ordinates:

Dx	=	+123.314m
Dy	=	+47.223m
Dz	=	-136.594m
Rx	=	+0.264"
Ry	=	+0.322"
Rz	=	+0.270"
Scale (K)	=	+1.384 p.p.m.

The sign convention applied by Thales in GNS2 software is that used by the US Department of Defence, where a positive sign about the z axis is an anti-clockwise movement of the x and y-axes (when viewed from the North Pole looking towards the centre of the Earth).

7. EQUIPMENT DESCRIPTIONS

7.1 GNS2

GNS2 (General Navigation System) is Thales' third generation of On-line Navigation Survey Control software. Thales' Software Support Group in C++ has written it for operation under Windows® 95 or Windows® 98 or Windows® NT. GNS2 adheres to the operation and dialogue conventions of the Microsoft Windows® environment. Attention has been paid to preserving a consistent operator interface, while at the same time modifying individual dialogue boxes to reflect specific logical circumstances. It has been designed for operation with a pointing device such as a mouse or a tracker ball but control can still be effected in case of the absence or failure of such a device.

The program has the ability to accommodate a large number and variety of mobiles, including surface vessels/ships, anchor-handling vessels, tugs, barges, ROVs, towfish, aircraft, vehicles and submersibles etc. The only limiting factors on the number of mobiles that can be tracked in GNS2 are the number of input/output serial communication ports available on the computer and the computer's memory.

For the input/output (I/O) of navigation and sensor data, GNS2 employs intelligent multi-channel serial communications boards to expand a computer's serial input/output facility. Currently GNS2 can support up to 26 communication (Comm) ports, which would consist of the computer's two internal Comm ports and three 8 channel serial communications boards fitted in the computer's internal expansion slots.

If Least Squares Computations (LSCs) are employed for positional calculations, whether two-dimensional (2D), three-dimensional (3D) or altitude aided, GNS2 uses standard iteration routines for the minimisation of residuals using 'variation of co-ordinate' algorithms. The number of I/O serial communication ports available on the computer and the computer's memory, limits the number of positioning systems/computations that GNS2 can handle.

All input observables are accepted on interrupt. Screen updates and other internal triggers are paced to once per second but time critical activities occur at discrete moments as required.

The GNS2 application workspace can extend beyond the display area, which is normally restricted to a single monitor connected to the computer. By using one or more multiple VGA cards, an enlarged display area can spread across multiple monitors.

Currently GNS2 can display 14 different types of view windows. Several copies of the same type of view window can be invoked at any one time. This may be required when several mobiles are being tracked and a Plan, Helmsman's or Bullseye display are required for each one or when the data on several Comm ports are to be viewed simultaneously. Each window can be individually sized to optimise use of the available display area.

GNS2 can be operated in 2 modes: GNS2 Master or GNS2 Remote. GNS2 Master has the full functionality of GNS2. GNS2 Remote is run on a separate computer and allows independent configuration of the graphics display and its associated numeric information. GNS2 Remote is operated on Anchor Handling Vessels or anywhere where positional information is required (e.g. Vessel Masters, ROV Pilots, Winch Control Stations). The link between GNS2 Master and GNS2 Remote can be via a telemetry link or hard-wired cable.

7.2 GLOBAL POSITIONING SYSTEM (GPS)

System Description

The NAVSTAR GPS (Navigational Satellite Timing and Ranging Global Positioning System) is a USA Military all-weather, space-based positioning system that transmits signals from a constellation of satellites orbiting the Earth. It is capable of providing suitably equipped users worldwide with accurate three-dimensional positions on, or near, the Earth's surface. The accuracy of these determined positions can vary from a few millimetres to several 10's of metres depending on the GPS receiver and on the method of data acquisition and processing. System design consists of three integrated parts: the Ground Control Segment, the Space Segment and the User Segment.

The operational space segment consists of 24 production satellites and 3 active spares; the term Space Vehicle (SV) is used as a synonym for satellite. The satellites are in high orbits, at approximately 20,200km, having an orbit period of 12 hours. They are arranged in 6 orbital planes, inclined at 55 degrees with near circular orbits. The configuration provides complete 4-satellite (3D) coverage worldwide.

GPS Observations

There are two important types of GPS observations (observables): Pseudo-range and Carrier Phase. Carrier phase is sometimes also referred to as carrier beat phase. Pseudo-range techniques are generally used for navigation. In high-precision baseline surveying the carrier phase is used. Although the (undifferenced) phase can be used directly, it has become common practice, at least in surveying applications, to process certain linear combinations of the original carrier phase observations (double differences and triple differences).

Pseudo-ranges

The pseudo-range is a measure of the distance between the satellite and the receiver at the epochs of transmission and reception of the signals. The transit time of the signals is measured by comparing (correlating) identical pseudo-random noise (PRN) codes generated by the satellite and by the receiver. A code-tracking loop within the receiver shifts the internal replica of the PRN code in time until maximum correlation occurs. The codes generated at the receiver are derived from the receiver's own clock, and the codes of the satellite transmissions are generated by the satellite system of clocks. It follows that unavoidable timing errors in both the satellite and the receiver clock will cause the measured quantity (pseudo-range) to differ from the geometric distance.

Where instantaneous positions are required, pseudo-range is the preferred observable. Given the satellite ephemeris (i.e. the position of the satellite at the epoch of transmission), there are seven unknowns: two clock errors, three receiver co-ordinates and the ionospheric and tropospheric delays. The effect of the satellite clock error is negligible for the typical navigation solution, particularly considering that the time errors are indistinguishable from the ionospheric and tropospheric delays. The satellite clocks are constantly monitored and synchronised with GPS time as maintained by the control centre. Actual offsets of the satellite clocks are approximated by polynomials in time and transmitted as part of the navigation message to the user for the correction of the measured pseudo-ranges. The ionospheric and tropospheric delays can be computed on the basis of ionospheric and tropospheric models, thus there are four unknowns left X, Y, Z and receiver clock error. These can be determined from four pseudo-ranges measured simultaneously to four GPS satellites.

Carrier Phase

The phase observable is the difference between the phase of the carrier signal of the satellite, measured at the receiver, and the phase of the local oscillator within the receiver at the epoch of measurement. This can be regarded as a biased range measurement of the satellite-receiver distance with the integer number of carrier waves being unknown. The wavelength of the L1 carrier is about 19cm. Because of the fraction of the carrier phase is measured, the term "interferometry" is often used to describe carrier phase techniques.

7.3 SKYFIX/SKYFIX SPOT DIFFERENTIAL GPS (DGPS)

Differential GPS (DGPS)

GPS is primarily a USA Defence space-based positioning system capable of operating worldwide and in all weather conditions. The USA Military can degrade the accuracy of GPS with the use of Selective Availability (SA) to control the accuracy of Pseudo-range measurements. Essentially, the user is given a false Pseudo-range for each satellite so that the resulting measurement is in error by a controlled amount. On the 1 May 2000 SA was discontinued conditionally and coincided with the successful demonstration of the ability to selectively deny GPS signals on a regional basis. SA has been set to zero and can be reinstated during periods of heightened global tension.

GPS signals are affected by several sources of positional bias, the largest of which was SA. The remaining biases of the ionosphere, the troposphere, time, satellite ephemeris and inherent receiver noise also give rise to substantial bias of position.

Differential GPS is a means by which the civil user can improve the accuracy and quality of GPS to the 1-3m level. It requires a receiver be located at a precisely known point from which pseudo-range corrections for each satellite can be determined and monitored. These pseudo-range corrections are then communicated by means of a telecommunications link to users at unknown locations. In the relative mode, most of the important systematic errors common to the known station and at the unknown location cancel out to improve the accuracy of the computed position.

SkyFix/SkyFix Spot Differential

SkyFix

Thales GeoSolutions (Australasia) Limited introduced its SkyFix Differential GPS System in Australia in February 1991, using the Inmarsat Pacific and Indian Ocean marine communications satellites as the differential data broadcast link. Extensive performance trials and projects undertaken to date have shown SkyFix to meet the best industry expectations in terms of quality of service and accuracy.

Satellite communications systems, particularly at the Inmarsat L-band frequencies of 1.5 GHz are reliable and free of the interference associated with the crowded MF/HF bands. This high data integrity gives users confidence that the corrections will be continuously received without interference.

The SkyFix Australian network comprises of reference stations at Dampier, Broome, Perth, Adelaide, Melbourne, Sydney, Cairns and Darwin.

SkyFix Spot

The SkyFix Spot Differential GPS System was launched in Australia in December 1994, using the OPTUS high powered focused communications satellite as the differential data broadcast link. Projects undertaken to date have shown SkyFix Spot to meet the industry expectations in terms of quality of service and accuracy.

The SkyFix Spot system has a link capacity of 1200 bits per second, similar to the SkyFix system but because it is only transmitting corrections from the Australian network an update rate of better than five seconds is achieved.

The OPTUS satellites uses the L-band frequencies of 1.5586 GHz and are very reliable and free of interference avoiding data loss associated with the crowded MF/HF bands.

The SkyFix Spot network comprises of reference stations at Dampier, Broome, Perth, Adelaide, Melbourne, Sydney, Cairns, Darwin, Alice Springs and also Ujung Pandang and Jakarta in Indonesia and Wellington, New Zealand.

The differential corrections generated at each reference station are brought via landline links to the data hub and control centre in Singapore, where the system is monitored for performance and quality. From there, a composite message containing full RTCM 104 version 2 formatted data from all reference stations are sent via dual redundant links to Satellite Earth Stations at Sentosa Island, Singapore, O.T.C. Perth, Western Australia and OPTUS, Perth, Western Australia, for uplink and broadcast over the Inmarsat Pacific and Indian Ocean Region satellites and the OPTUS Satellite.

The SkyFix/SkyFix Spot system includes a 24 hour monitoring facility to ensure the validity of data received at the control centre from the Differential GPS reference stations, and that the same data are received over the SkyFix/SkyFix Spot satellite data link.

7.4 TRIMBLE SERIES 4000 GPS RECEIVER

The Trimble Series 4000 GPS receiver is designed for moderate precision static and dynamic positioning applications. The GPS receiver provides time and three-dimensional station co-ordinates at a once-per-second update rate.

The receiver receives the civilian coded signal (C/A) from the GPS NAVSTAR satellites. The receiver automatically acquires and simultaneously tracks GPS satellites and precisely measures code phase and computes position and velocity.

Latitude, longitude and height values are output on the World Geodetic System (WGS 84) Earth-centred, Earth-fixed co-ordinate system.

The receiver is designed to measure the following observables:

- Coarse/Acquisition (C/A) code Pseudo-ranges
- Rate of change of Pseudo-range
- Integrated Carrier

C/A code correlation techniques measure the propagation time of the signal from the satellite to the antenna. Latitude, longitude, height and time can be determined from measurements made from at least 4 satellites, by a process similar to triangulation.

To determine speed and heading, the receiver calculates the rate of change of Range (the range-rate) by measuring the Doppler shift of the carrier.

It is capable of receiving and processing differential corrections from other reference sources using the standard format of the Radio Technical Commission for Maritime Services, Special Committee 104 (RTCM SC-104), Version 1.0 or 2.0 protocols.

The Trimble Series 4000 GPS receiver has several options available, including internal data logging memory, event marker logging etc. and therefore may be used alone or as part of a more extensive navigation system.

7.5 MULTIFIX 3

7.5.1 System Overview

MultiFix 3 is Thales GeoSolutions third generation *multiple reference station* differential GPS (DGPS) real time position computation and quality control program. It is an integral part of the Thales SkyFix Premier service but can also be used with the standard SkyFix service. MultiFix 3 has more advanced features than its predecBSOCr, MultiFix 2, including being able to use dual frequency receivers and form real time 'Iono-Free DGPS position solutions'.

MultiFix 3 is one of a series of programs available under the group name Zero, which includes other tools and utilities with a similar user interface and layout structure, like static and dynamic position comparison programs, a correction monitor program, a terminal program and a replay utility.

MultiFix 3 takes in Almanac, Ephemeris and Raw Code and Carrier measurements from a single or dual frequency GPS receiver (or, for replay, from logged files). It takes in RTCM SC104 Version 2 differential correction messages from one or more RTCM correction delivery systems. It also takes in RTCM Type 15 or Thales Proprietary RTCM Type 55 Ionospheric range corrections generated at selected SkyFix Premier reference stations and broadcast via the Thales global network of high (SkyFix Spot-Optus) and low (SkyFix-Inmarsat) power satellite based L-Band beams.

Key features of the program are:

- No limit on the number of RTCM correction delivery systems (data links)
- No limit on the number of RTCM differential reference stations
- No limit on the number of computations (solutions)
- Each computation can employ corrections from any combination of reference stations available
- Computations are weighted least squares with statistical evaluation based upon the UKOOA recommendations
- No limit on the number of outputs
- No limit on the number of view windows
- View windows can be customised
- Extra NMEA outputs can be defined
- TCP/IP communication via sockets for GPS, RTCM and position data transfer between networked computers

MultiFix 3 has been designed in a modular fashion such that data is passed between modules as if over a computer network. The core module MultiFix 3 performs the computation of position. Additional modules are available and more will be made available in the future. While a single computer can be used, the various modules will equally be able to be run on different computers, provided there is a network interconnection.

MultiFix 3 uses the EGM96 geoid/spheroid separation model.

The RTCM corrections that are generated at reference stations are contaminated by a variety of error components, one of which is Ionospheric delay. The Ionospheric delay is currently more variable because of greater sun spot activity. MultiFix 2 and MultiFix 3's standard computation uses the Klobuchar Ionospheric delay model. This model is updated periodically but is not responsive to the current short-term variability. MultiFix 3 has an additional calculation option when working with dual frequency receivers and in receipt of Type 15 or 55 RTCM messages. With dual frequency receivers, estimates can be made of the Ionospheric delay by examining the differences between the measurements from the two frequencies. If the same procedure for estimation of Ionospheric delay is performed at the reference stations and on the mobile, both the RTCM corrections and the pseudo-ranges can have the Ionospheric delay removed, effectively providing an Iono-Free DGPS position solution.

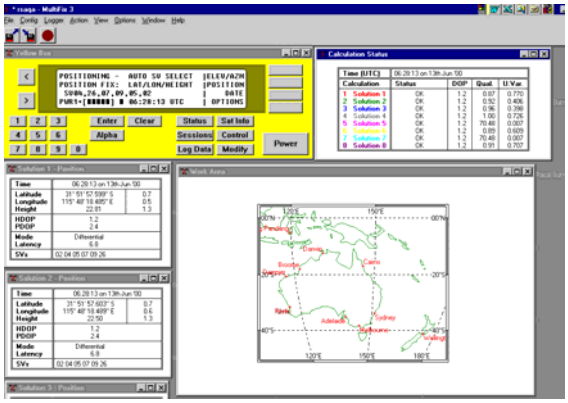
7.5.2 Hardware Requirements

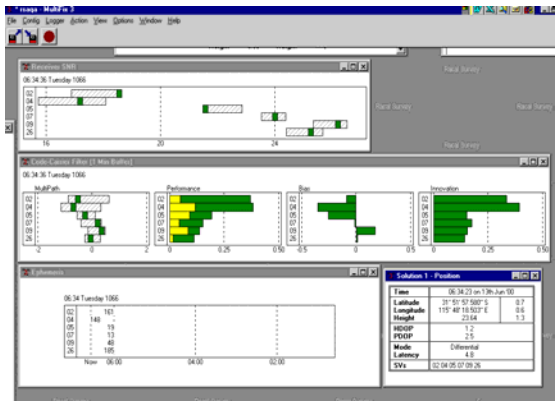
Optimum requirements for MultiFix 3 are:

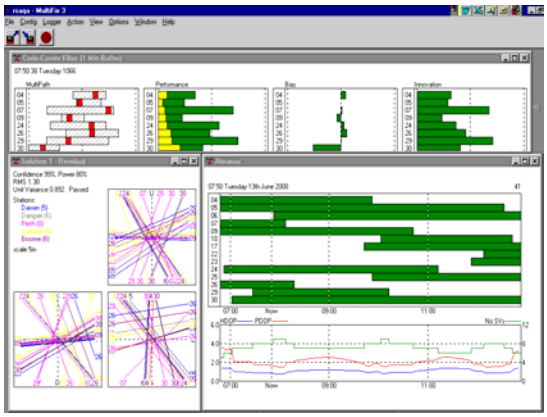
- 350 MHz Pentium II computer
- 32 Mb RAM
- Windows 95, 98 or NT operating system
- Graphics resolution of at least 800 x 600 pixels
- Intelligent multi-port serial I/O board

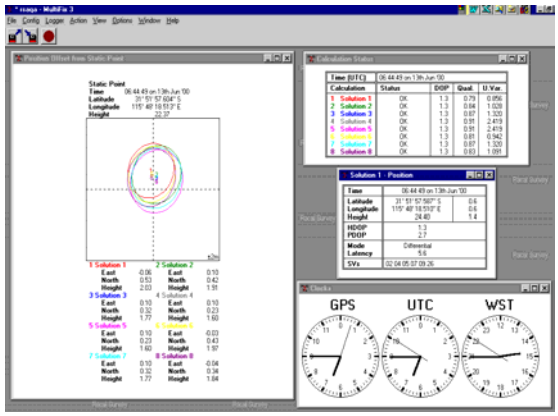
7.5.3 Positioning and Quality Control Displays

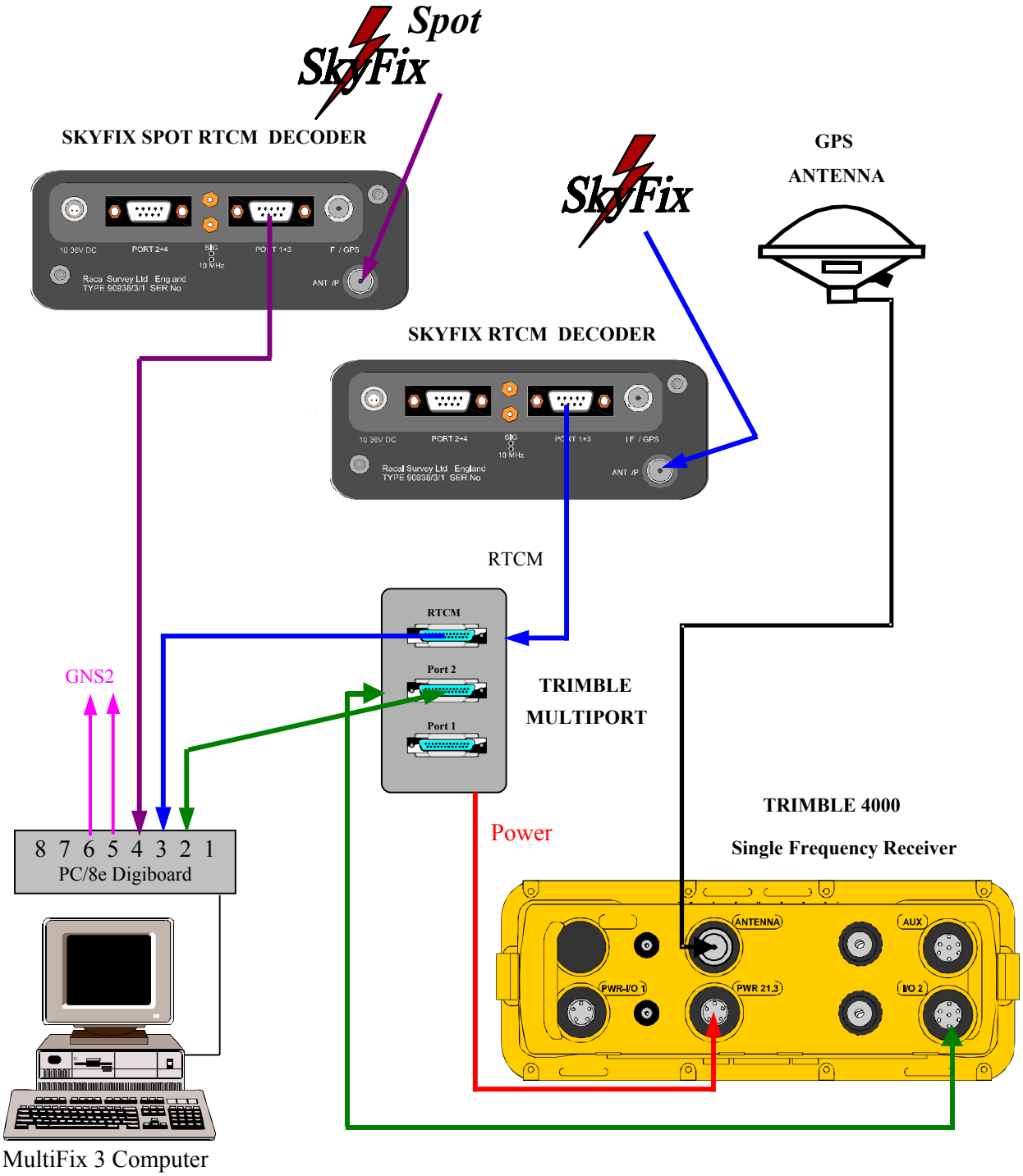
MultiFix 3 has a large number of features to accomodate the user requirements of highly accurate positions with quality control (QC) information and outputs in different formats. MultiFix 3 runs in a Windows environment, which allows the user to design a preferred screen layout by opening, sizing and placing the numerous displays that are available. Examples of the various displays can be found below.











Typical MultiFix 3 Interconnection With Trimble 4000 GPS Receiver

7.6 ATLAS DESO 15 ECHO SOUNDER

The Atlas Deso 15 echo sounder is a dual frequency system operating at 33kHz and 210kHz. Digital technology is employed so that the equipment comprises one unit incorporating an analogue/digital thermal recorder, transceiver electronics and digitiser. The transducers may be hull or over-the-side mounted.

To measure water depth the Atlas Deso 15 echo sounder uses ultrasonic sound waves. A short burst of ultrasound is transmitted vertically downwards into the water by a transducer, which converts electrical energy into mechanical energy. A proportion of the sound energy is reflected by the bottom or by other solid media such as fish, and returns as an echo to the transducer. The time which elapses between the transmission of the signal and the return of its echo is proportional to the depth. The accuracy of the depth measurement depends on such factors such as the print speed and index errors, although the primary influence on depth accuracy is the measurement (and concomitant accuracy) of the velocity of sound through the water column, which is set by the operator in the echo sounder. Bar checks are also carried out to calibrate the system for index errors. Print speed checks are carried out as part of the mobilisation procedures. The echo sounder controls the generation, timing and length of outgoing pulses that are transmitted from the transducer.

High frequency transmissions will tend to be reflected by the seafloor whilst lower frequency signals penetrate soft mud and sediment to produce shaded echoes of the various layers on the analogue recorder. The echo sounder contains two digitisers, one for each transmitted frequency. Returns from several transmissions are stored, weighted and summed so that faint returns from the seabed will be recognised from the background noise. Digital information is indicated in the display window of the echo sounder and is also available for external use. The digitiser can be set to track either or both of the two frequencies.

System specifications are as follows:

Operational Voltage:	18 - 32 V DC or 240 V AC
Power Consumption:	Approx. 100 VA
Transducer Frequencies:	33kHz 210kHz
Beam Widths:	33kHz - 16° 210kHz - 9°
Depth Capability:	0.5 - 650 metres
Power Output:	300W, 600W & 1,000W
Measuring Accuracy:	33kHz - better than 10cm 210kHz - better than 1cm
Water Sound Velocity:	1400 m/s to 1600 m/s in 1 m/s steps

7.7 TSS DMS 2-05 MOTION SENSOR

The TSS DMS 2-05 Motion Sensor is used to provide heave, pitch and roll data to the single beam echo sounder system. The TSS DMS 2-05 is a small portable system for measuring the vertical displacement and altitude of a vessel when no stationary reference is available.

Sensor Package

The standard sensor package contains the solid state sensing elements that resolve the magnitude and direction of forces acting upon the sensor so that it can supply motion measurements. High speed circuitry converts the signals from the sensing elements into actual measurements of attitude and motion. These are then communicated via RS232 or RS422 to a receiving PC, or terminal, or to the appropriate receiving equipment (echo sounder, datalogger etc.).

Installation of the DMS System is simple, and the compact design allows it to be mounted close to the point for which measurements are required.

Software

Software resident within the sensor electronics package allows a PC or terminal to control the DMS System so that its configuration can be optimised for any particular installation. The software can be utilised to check the analogue output values, and to measure the roll and pitch mount angles.

Auxiliary Input

The DMS System can accept signals from auxiliary equipment such as a Global Positioning System (GPS) or a gyrocompass. The sensor uses these ‘aiding’ inputs to maintain the accuracy and stability of measurements throughout vessel turns.

Principle of Operation

The DMS includes an array of solid-state sensing elements that measures the instantaneous linear accelerations and angular rates affecting the sensor at any time. These measurements allow the system to derive the attitude of the platform on which the sensor is mounted with respect to the true vertical.

Additionally, velocity and heading information supplied by external GPS and gyrocompass systems can be used by the DMS system to maintain the measurement accuracy of the sensor throughout vessel turns.

The digital output from the sensor is updated and supplied as a digital data string transmitted to external equipment using either RS232 or RS422.

To support the requirement of applications that require an analogue input (i.e. the Elac Multibeam System), the sensor provides scalable analogue outputs for roll, pitch and heave.

System specifications are as follows:

Heave

Range	:	± 10 meters
Resolution	:	1cm
Bandwidth	:	0.05 to >10 Hz
Accuracy	:	The greatest of 5cm or 5%
Measurement Datum	:	All measurements are with respect to the centre of the bottom surface of vertically mounted Sensor.
Acceleration Range (vertical)	:	2g
Noise (at cut-off frequency 0.05 Hz)	:	<1cm RMS

Roll, Pitch

Range	:	±30º
Resolution	:	Digital 0.01º
Bandwidth	:	0 to >10 Hz
Accuracy		
(Dynamic) DMS 2-05	:	±0.05º
(Static) DMS 2-05	:	±0.05º
Angular rate change	:	100º/second
Noise	:	<0.05º RMS
Cross axis coupling	:	<1%

Electrical

Power Requirement	:	12V to 36V DC 12W at 24V
Digital Interface	:	RS232C, RS422 user selectable
Digital Output Data Rate	:	Dependent upon output format and baud rate. The Sensor will supply data packets at the highest possible transfer rate. Using the default settings (format TSS1 at 9600 baud), the digital output rate will be 32 packets/second.

Environmental

Temperature Range		
(Operating)	:	0 to +40°C {32ºF to 104°F}
(Storage)	:	-20 to +70°C {-4ºF to 158°F}
Shock (Survival)	:	30g peak 40ms half-sine
Vibration (Operating)	:	Meet Lloyd's Register ENV2 (1996) specification for vibration Meet ABS Table 4/11.1 (1996) No. 12 IEC Publication 68-2-6 (1995) Test F.
Transverse Acceleration	:	500mg peak 0.1s sine
Enclosure Ingress Protection	:	3000m {9840ft} depth rated
Tilt	:	±30° any plane
Operating Transit/Storage	:	No limit
Yaw Immunity	:	10° per second with 30° roll and pitch

7.8 GEOACOUSTICS DUAL FREQUENCY SIDE SCAN SONAR SYSTEMS

The GeoAcoustics Dual Frequency Side Scan Sonar system provides mapping of the seabed and consists of a GeoAcoustics combined towfish (159D), a pair of dual frequency sonar transducers (196D) and a Sonar Transceiver (SS941).

The GeoAcoustics combined towfish contains side scan sonar transducers which transmit short pulses of high frequency acoustic energy in fan shaped beams at right angles to the fish's track. The beams are narrow in the horizontal plane and wide in the vertical plane. In the nose of the towfish are the transmitting and receiving circuitry and on receipt of a trigger pulse from the ship-borne recorder the transducers are energized. The receiving circuitry amplifies the returned echoes and sends them via the tow cable to the recorder for display.

The transceiver unit allows the operator a simple means of controlling various Side Scan operating parameters. The unit includes standard controls such as: Gain, Time Varying Gain (TVG), Automatic Gain Control (AGC), with duplicated controls for port and starboard transducers. The operating frequency can also be switched from 100kHz to 500kHz directly from the transceiver. The choices of frequencies means that long range scanning and short range high resolution investigations are possible. The output of the transceiver can be recorded digitally if interfaced to a digital recording system.

System specifications are as follows:

GeoAcoustics 196D Dual Frequency Transducers

Source level	223 ± 3 dB re 1µPa @ 1 m
Beamwidth	50° by 1°/40° by 0.5°
Sensitivity	190 dB re 1 V/µPa
Depression	Angle 10° ±1° down.

Transmitter

Frequency	100/500 kHz ±1%.
Power output	1.2 kW/1 kW pulse ±20%.
Pulse length	167 µsec/88 µsec ±1%
Pulse repetition rate	50 pulses per second maximum.

Protection Open and short circuit protected.

Efficiency Greater than 80%.

Receiver

Port channel	100/500kHz, heterodyned to 135kHz.
Starboard channel	100/500kHz, heterodyned to 65kHz.
Bandwidth	20kHz TVG Transmission loss curve compensated at both frequencies. Approximately + 40dB at 100m range.
Keyburst Frequency	455kHz ± 2%.
Pulse length	300µsec for 110 kHz operation. 600µsec for 410kHz operation.
Power	150V DC at 100mA.
Size	Diameter 10.2cm Length 34.5cm Weight 3.2kg in air, 0.45kg in water.

7.9 BOOMER SUB-BOTTOM PROFILING SYSTEM – CSP1000

A Boomer sub-bottom profiling system consisting of an Applied Acoustics CSP1000 power source, EG&G Model 230 Boomer seismic source, and an EG&G Model 265 Type hydrophone is used to determine the nature of the sub-seafloor geology. The boomer catamaran and the 10-element hydrophone are towed astern of the vessel.

The raw analogue signal is firstly filtered using a Krohn-Hite 3700 filter before it is digitally displayed and recorded.

The system is operated and fired by an Applied Acoustics CSP1000 Triggered Capacitor Bank and Power Source. The data can be processed and recorded by a digital recording system, which includes a band pass filter.

The Boomer Sub-bottom Profiling system comprises the following components:

Applied Acoustics CSP1000 Power Source

The Applied Acoustics CSP1000 Power Source provides a high-voltage direct current for charging the capacitor banks used in sub-bottom profiling systems. The Applied Acoustics CSP1000 Power Source will charge at 1100 Joules per second. This allows the operator to select sound-pulse repetition rates as fast as six pulses per second at an energy level of 1000 Joules:

System specifications are as follows:

Size:	19” rack mounted 7U high 550mm deep
Weight:	55 kg
Operating Temperature:	0-37°C at maximum output
Mains input:	207-206 VAC 45-65Hz @ 2.5kVA 3 pin connector
Voltage Output:	3550 or 3800 volts DC 4 pin interlocked connector
Output Energy:	100 to 1000J in 100J increments
Charging Rate:	1100J per second
Capacitance:	144μF. 1 x 10^8 shot life
Trigger:	+ive key opto isolated or closure set by front panel switch. BNC connector on front panel and remote.
Repetition Rate:	To 6pps
Earth:	M8 stainless steel stud on front panel

EG&G Model 230 Boomer Seismic Source

The EG&G Model 230 Boomer (or Uniboom) is an electromechanical source fixed to a surface towed catamaran. The boomer source consists of an induction coil against which an aluminium plate is applied by a system of springs. With each discharge, from the ship-borne capacitor banks, the eddy currents induced in the conductive plate cause it to move violently away from the coil. The initial movement of the plate triggers the acoustic pulse, the duration of the boomer signal is limited to about 0.2ms.

EG&G Model 265 Type Hydrophone

The EG&G Model 265 Type Hydrophone uses 10 elements connected in series and incorporates a current summing amplifier. The hydrophone elements and preamplifier are enclosed in a one-inch, oil filled tube designed to minimise turbulent noise from towing, this part of the hydrophone is called the active section. In addition to the active section, the hydrophone includes a tail for stabilisation, a tow cable that incorporates the conductors for transmitting the electric signals and a battery box attached to the shipboard end of the cable which supplies the DC voltage for operating the pre-amplifier.

System specifications are as follows:

Input Power:	9v DC Battery
Sensitivity:	-61 dB/volt/microbar
Bandwidth:	400Hz - 5kHz
Hydrophone Element:	
Sensitivity	-103 dB/volt/microbar (single element)
Gain (Preamplifier)	42 dB (including gain of 10 elements in series)
Output	2 kohms

7.10 GEOMETRICS G-880 MAGNETOMETER

The Geometrics G-880 magnetometer is a high resolution marine Cesium magnetometer system, which features very high sensitivity measurements of total field and gradient combined with rapid sampling. A Larmor counter provides direct connection to a host CPU for integrated side scan sonar applications. The G-880 is completely digital, unaffected by shipboard noise, easily deployed and simple to operate.

A key element in the high performance of the system is the conditioning and the counting of the Larmor signal. Using a proprietary design mounted into the electronics pressure vessel, sensitivity, measurement rates and data format are selected by operator commands. Counters from multiple sensors may be concatenated together to provide a sequential stream of RS232 data for transmittal through the tow cable. A basic software package for data logging and system control is provided with each model G-880.

Magnetic field variations are measured using the Geometrics G-880 magnetometer, towed from the stern of the vessel. Data are processed and recorded as ASCII files (containing numerical values for latitude, longitude, magnetic field, magnetometer altitude, time, and date) using Sandia Research Associates MagSea logging program software, on the magnetometer control notebook computer. Data are also displayed on a hardcopy using a printer.

Additional Plot software allows any portion of the data recorded on disk to be called up for display or printing; and CsAz for determining optimum sensor orientation.

Deviations from the ambient magnetic field (caused by metallic objects such as pipelines) produce anomaly spikes on the hardcopy printout that can be correlated with GPS navigation information to derive an anomaly location.

Magnetometer Electronics

Operating Principle: Self-oscillating split-beam Cesium Vapor (non-radioactive Cs133) with automatic hemisphere switching.

Operating Range: 17,000nT to 100,000nT

Heading Error: +/- 0.5nT

Sensitivity: 90% of all readings will fall within the following Peak-to-Peak envelopes:

1. 0.05nT at 0.1 second cycle rate
2. 0.03nT at 0.2 second cycle rate
3. 0.01nT at 1.0 second cycle rate

Operating Zones: For highest signal-to-noise ratio, the sensor long axis should be oriented at 45^{o}, +/- 30^{o} to the earth's field angle, but operation will continue through 45^{o}, +/- 35^{o}.

Gradient Tolerance: > 500nT / inch; >20,000nT / meter

Data Output: Three wire RS232, magnetics, up to 6 A/D channels for other sensors if present

Larmor Counter:

4. Integrated into sensor electronics in 'fish'
5. Ref Osc: Nominal 22MHz
6. Output data concatenated with other counters or data sources if present
7. A/D converters: 3 single and 3 differential, 12 bit resolution.
8. Control functions: Keyboard commands from surface

7.11 CODA DA200 DIGITAL RECORDING/PROCESSING SYSTEM

The CODA-DA200 Sonar Data Acquisition and Playback System is used to convert the analogue signal from the GeoAcoustics Transceivers to digital format, and to record the digital data on magneto-optical disk. The CODA is a Unix-based hardware and software system developed for recording and processing of analogue or digital signals from a dual channel side scan sonar.

In real time the data can be recorded to the hard disk, to removable disk drives, or to magneto-optical disk. Processing parameters such as slant range correction, TVG enhancement, image enhancement, zoom facilities, real-time cursor navigation position and on-screen management, scrolling speed adjustment, multi-resolution data display and single/dual channel waterfall display, can be applied while on-line or during playback. Only the raw data will be recorded to magneto-optical disk.

CODA-DA200

Physical
Flight-cased industrial 19” rackmount chassis - 21” x 22” x 13”
Monitor flight casing - 20.75” x 19.75” x 19.5”

Hardware
Dedicated acquisition board
Dual Independent input/output triggers
High-spec Pentium PC
High Resolution 17” monitor
Mouse or Trackball

Data Storage/Retrieval
Shock mounted high speed DDS DAT (4mm) SCSI tape (Exabyte tape, Optical Disk optional)
Shock mounted 1GB SCSI HDD

Data Format
CODA, SEG-Y, SDEF, Q-MIPS™ compatible

Hard Copy
Continuous real-time output to various thermal recorders:
Ultra Wideline 200, Ultra Wideline 195
Ultra 3710, EPC1086, Alden 9315
Screen dump to disk or printer in EPS or TIFF format
SCSI, GPIB, Parallel interface

DATA INTERFACES

Analogue Input
200 kHz throughput
Fully independent triggers
Input signal range ± 1.25 to ±10V
12-bit resolution, dynamic range 72dB (16-bit optional)
Up to 10,240 samples per channel

Triggering
2 fully independent triggers
Master Trigger Output
Trigger period 33ms to 65s
TTL (user-specifiable duty cycle)
Slave Trigger Input
Trigger period minimum 33ms
TTL (min. pulse width 40ns)
Negative/Positive Edge Triggered

Digital Input/Output
TCP/IP Ethernet link, or customer-specified (e.g. SCSI, GPIB), RS-232, DMA compatible parallel
External event input by TTL

Navigational Interface
RS-232 serial interface
Data rate up to 9600 baud, user-configurable
User-configurable RS-232 data format
Corrected navigation input from floppy disk

SOFTWARE

General On-line Processing
Simultaneous, real-time, dual sensor display windows
Real-time, on-line corrective processing including independent channel TVG
Automatic seabed detection and display
Full colour image enhancement

Side scan On-line Processing
Slant range correction
Across-track smoothing

Shallow Seismic On-line Processing
High, low, and band-pass filtering
Trace mixing and anti-mixing
User selectable sound velocity for measurements
Swell filtering

High-Resolution Display
Multi-channel window displays including horizontal and vertical waterfall display and 3D mesh plot (optional)
Multi-resolution, independent channel display
3-mode zoom
Freeze-frame with auto-release during acquisition
A-scan oscilloscope display
Geo-referenced screen and cursor
On-screen measurement and event marking
User configurable scale lines

High Speed Tape Operating System
Random data access with intuitive controls including GoTo, Stop, Play, Fast Forward, Rewind, Cue and review
Tape copying facility including data format and tape conversion
Continuous recording with dual type system
CODA, SEG-Y, SDEF, Q-MIPS™ compatible data formats

Acquisition
Navigation input and survey parameter QC
Software-configurable acquisition setup
Time-synchronised navigation input
User-programmable nav. string input

General
X windows/Motif user interface (version X11R6)
UNIX SVR4 operating system
Additional software modules available for pipeline inspection (PI100), site survey interpretation and reporting (GeoKit), survey overview (Trackplot and Trackplot Plus), on-line mosaicing (Coda Mosaic), swathe bathymetry acquisition and processing (Coda Swathe module)

7.12 S.G. BROWN 1000S GYROCOMPASS

The S.G. Brown 1000S Gyrocompass is a compact, simple-to-operate master heading reference instrument employing the effect of gravity and the earth's rotation to produce a True North reference. This reference may be read off the compass card or from a digital display and can be interfaced to the GNS2 navigation system.

The normal starting cycle of the instrument is fully automatic and is initiated when the system power supply is switched on. A fail safe control circuit is incorporated which ensures that the compass is not damaged after a power failure when power is restored; the compass will restart automatically and carry out its normal settling program.

7.13 APPLIED MICROSYSTEMS MODEL SVPLUS SOUND VELOCITY PROFILER

The SVPlus is a multi-parameter, self-contained, intelligent instrument designed for the measurement of sound velocity, temperature and pressure. The SVPlus features microprocessor based CMOS circuitry, two A/D converters (1 part in 40,000, 1 part in 16,000) and 128 Kbytes of battery backed-up random access memory (RAM) for data storage. The SVPlus has the options of logging data continuously, by depth increments, by time increments, by sound velocity increments, or logging individual scans.

Prior to deployment the SVPlus is connected to an IBM compatible computer via a 3-conductor cable, the instruments output is standard ASCII RS-232. When connected to a computer the SVPlus is programmed using Applied Microsystems Ltd's Total System Software. The SVPlus is configured for logging, choosing sample time units, sampling interval, depth logging increment, sound velocity increment and log file name. Logging begins when the SVPlus is immersed in water and when the instrument receives a valid sound velocity value it begins recording the data. Logging stops when the instrument cannot detect a sound velocity signal and it will assume it is out of the water.

Deployment of the SVPlus is either by hand or winch. As the instrument is lowered to and raised from the seabed, data is stored in memory.

When recovered the SVPlus is re-connected to a computer to view, edit and graph the data logged by the instrument. When a file (or cast) has been completely loaded an analysis of the data automatically begins. The purpose of this analysis is to compute the engineering values of the data and to determine the maximum and minimum values for graphing.

The SVPlus records the temperature, pressure and sound velocity at user specified logging increments. The sound velocity is measured by injecting an acoustic pulse into the water and measuring the time taken for that pulse to travel across a fixed distance.

The SVPlus's sensors must be calibrated occasionally. These should remain within published specifications for periods of 1 - 2 years, depending on the amount of use, and depth of deployment. Sensors are calibrated by recording the instruments raw data at known reference points. This data is applied to a curve fitting algorithm to produce calibration coefficients which are permanently stored in the instruments memory.

System specifications are as follows:

Pressure:	Type: Keller stainless steel pressure transducer Range: Assorted pressure ranges up to 5000 dBars Accuracy: 0.15% of Full scale Resolution: 0.005% of Full scale Response Time: 10 ms
Temperature:	Type: Pressure protected precision aged thermistor Range: -02°c to 32°C Accuracy: ±0.005°C Resolution: 0.001°C Response Time: 100 ms
Sound Velocity:	Type: 1 Megahertz piezoelectric transducer. INVAR stabilised path length (±5.5nm/°C) Range: 1400 - 1550 m/s Accuracy: <0.06 m/s (r.m.s) Resolution: 0.015 m/s
Sample Rate:	When recording internally without sending data, the scan rate is selectable

from 10 scans/second to one every 24 hours.

Memory: 128 Kb battery backed-up RAM, expandable to 40 Mbytes. The standard RAM can record 6400 scans of date, time, pressure, sound velocity and battery.

8. EQUIPMENT CALIBRATIONS AND CHECKS

8.1 GYROCOMPASS CALIBRATION

The S.G.Brown survey gyrocompass was calibrated at 1130 on 16 March 2002. Calibration of the survey gyrocompass was performed using total station observations, while the Bluefin was alongside the Australian Maritime College (AMC) Wharf, Beauty Point, Tasmania.

Survey Mark AMC5 on the AMC Wharf was occupied by total station. The observed reference object was Survey Mark AMC2 on the AMC Wharf. A series of horizontal angles and distances were measured to reflective prisms located along the centreline of the vessel, at the bow and stern. Simultaneous survey gyrocompass observations were recorded within the Thales GNS2 software. The gyrocompass Calculated minus Observed (C-O) was reset to zero before commencing logging data to file.

The vessels Calculated (C) heading was compared to the Observed (O) survey gyrocompass heading to determine the gyrocompass C-O. The gyrocompass C-O was entered into GNS2 and used throughout the site survey campaign. The results of the calibrations are tabulated below.

Control Point Co-ordinates

Datum: AGD66 Projection: AMG Zone 55, CM 147° East

Control Mark	Easting (m)	Northing (m)
AMC5	485 188.128	5 443 443.762
AMC2	485 232.088	5 443 475.890

Observations

Date: 16 March 2002 Instrument Station: AMC5
Backsight Station: AMC2

Time (hh:mm:ss)	Observation Point	Observed Bearing	Observed Distance (m)	Observed (O) True Heading
11:34:40	Bow	343° 21' 35"	70.910	338.80°
11:35:20	Stern	001° 12' 00"	61.880	339.20°
11:35:50	Bow	343° 30' 25"	70.840	339.00°
11:36:20	Stern	001° 03' 05"	61.935	339.00°
11:36:50	Bow	343° 20' 05"	70.830	338.80°
11:37:20	Stern	001° 03' 40"	61.930	338.50°
11:37:50	Bow	343° 23' 55"	70.730	338.20°
11:38:20	Stern	001° 10' 45"	61.890	337.80°
11:40:10	Bow	343° 19' 05"	70.720	338.80°
11:40:40	Stern	001° 10' 55"	61.980	338.20°
11:41:00	Bow	343° 20' 25"	70.750	337.70°
11:41:40	Stern	001° 16' 25"	61.835	338.70°
11:42:20	Bow	343° 17' 40"	70.935	339.00°
11:43:00	Stern	001° 06' 30"	61.970	339.30°
11:43:30	Bow	343° 23' 40"	70.910	339.00°
11:44:00	Stern	001° 06' 30"	62.000	338.30°
11:44:30	Bow	343° 22' 40"	70.685	338.20°
11:45:00	Stern	001° 12' 45"	61.815	339.00°

Time (hh:mm:ss)	Observation Point	Observed Bearing	Observed Distance (m)	Observed (O) True Heading
11:45:40	Bow	343° 19' 45"	70.500	338.80°
11:46:10	Stern	001° 21' 05"	62.020	338.70°

Results

Calculated (C) Vessel Heading (True)	Observed (O) Survey Gyrocompass (True)	C-O
339.66°	339.00°	+0.66°
339.73°	339.00°	+0.73°
339.42°	338.65°	+0.77°
339.32°	338.00°	+1.32°
338.94°	338.50°	+0.44°
339.34°	338.20°	+1.14°
339.44°	339.15°	+0.29°
339.48°	338.65°	+0.83°
339.25°	338.60°	+0.65°
339.54°	338.75°	+0.79°
	Mean	**+0.76°**

The mean gyrocompass C-O = +0.76° was entered into the GNS2 configuration parameters.

The printouts for the pre-survey gyrocompass calibration are located in Appendix D.

8.2 STATIC DIFFERENTIAL GPS CHECK

A static check of the SkyFix/SkyFix Spot Differential GPS was carried out at 1150 on 16 March 2002 while the Bluefin was alongside the AMC Wharf.

Survey Mark AMC5 on the AMC Wharf was occupied by total station. The observed reference object was Survey Mark AMC2. A series of horizontal angles and distances were measured to the vessel datum (echo sounder transducer pole) installed onboard the Bluefin. Simultaneous Differential GPS position fixes were recorded within Thales GNS2 software.

The calculated datum position was then compared to the observed datum position to provide verification of the Differential GPS positioning system. The results of the static Differential GPS check are tabulated below.

Control Point Co-ordinates

Datum: AGD66 Projection: AMG Zone 55, CM 147° East

Control Mark	Easting (m)	Northing (m)
AMC5	485 188.128	5 443 443.762
AMC2	485 232.088	5 443 475.890

Results

Date: 16 March 2002
Instrument Station: AMC5
Backsight Station: AMC2

Time (hh:mm:ss)	Calculated Co-ordinates		Observed DGPS Co-ordinates		Linear Misclose (m)
	Easting (m)	Northing (m)	Easting (m)	Northing (m)	
11:49:50	485 234.330	5 443 500.347	485 235.440	5 443 500.200	1.12
11:50:15	485 234.300	5 443 500.436	485 235.460	5 443 500.320	1.17
11:50:35	485 234.452	5 443 500.466	485 235.350	5 443 500.040	0.99
11:50:55	485 234.447	5 443 500.490	485 235.300	5 443 499.640	1.20
11:51:15	485 234.450	5 443 500.494	485 235.120	5 443 499.300	1.37
11:51:30	485 234.397	5 443 500.460	485 234.930	5 443 498.870	1.68
11:51:45	485 234.310	5 443 500.415	485 234.910	5 443 498.780	1.74
11:52:05	485 234.401	5 443 500.327	485 234.790	5 443 498.780	1.60
11:52:20	485 234.346	5 443 500.243	485 234.700	5 443 498.870	1.42
11:52:35	485 234.375	5 443 500.181	485 234.740	5 443 499.020	1.22
				Mean	**1.35**

Mean Linear Misclosure = 1.35m

Printouts of the static Differential GPS checks are located in Appendix E of this report.

8.3 VELOCITY OF SOUND IN SEAWATER PROFILES

A velocity of sound in seawater profile was carried out at the Patricia-2 survey site on 17 March 2002, using a SV Plus Sound Velocity Probe. The Patricia-2 site survey area is adjacent to the Baleen-3 site survey area and the same velocity of sound in seawater was used for both sites.

A mean velocity of sound of 1515.7m/s was determined and entered into the echo sounder.

The water column velocity profile is detailed in Appendix I of this report.

8.4 ECHO SOUNDER TRANSDUCER DRAFT MEASUREMENT AND MOTION SENSOR TEST

8.4.1 Echo Sounder Transducer Draft Measurements

The Atlas Deso 15 echo sounder transducer draft settings were established by undertaking a bar check. A bar check was performed after vessel mobilisation on 16 March 2002, while Bluefin was alongside the AMC Wharf. The draft was measured as 1.54m for the 33kHz and 210kHz transducers.

Copies of the bar check are included in Appendix F of this report.

8.4.2 Motion Sensor Test

A motion sensor test was carried out prior to departure from the AMC Wharf on 16 March 2002. This involved physically lifting the DMS2-05 Motion Sensor up and down whilst watching the echo sounder screen for the correct movement in the raw heave trace.

8.5 SIDE SCAN SONAR RUB TESTS & WET TESTS

Side scan sonar rub tests and wet tests were performed on the primary and back-up towfish alongside the AMC Wharf on 16 March 2002. The purpose of these tests was to ensure that the fish mounted transducers were operating within specification and connected to the correct recorder channels. The Client Representative accepted the results.

The results of these tests are presented as Appendix G of this report.

8.6 BOOMER WET TESTS

A boomer wet-test was performed while the Bluefin was alongside the AMC Wharf on 16 March 2002. The purpose of the test was to check the overall operation and performance of the seismic equipment. The Client Representative was present during the test and accepted the results.

The results of this test are presented as Appendix H of this report.

9. SUMMARY OF EVENTS

The Bluefin commenced mobilisation at the AMC Wharf on 15 March 2002 to conduct a series of site surveys for OMV, in Gippsland Basin in the Bass Strait.

A vessel induction, pre-mobilisation safety meeting including a JSA for the mobilisation was conducted for Thales and Bluefin personnel on arrival at the vessel. The induction and safety meeting commenced at 0800 on 15 March 2002.

Thales survey equipment was loaded onto the Bluefin at 0830 and all crane, welders and labour work were completed by 1545. The Gyrocompasses were powered up at 1300. At 1600 a power failure was encountered but power returned by 1630. At 2000 Thales personnel departed the vessel for the night.

At 0700 on 16 March 2002 mobilisation recommenced. Boomer wet test and side scan sonar rub tests and wet tests were completed by 1000. An echo sounder bar check, gyrocompass calibration and DPGS health check were completed by 1345. Another power failure was encountered from 1515 to 1530. By 1600 the magnetometer was operational. An emergency muster including a fire and abandonment drill was held at 1730.

At 1800 on 16 March 2002 the vessel departed the AMC wharf. The vessel arrived at the Patricia-2 site survey location at 1845 on 17 March 2002. From 1845 17 March 2002 until 0400 on 18 March 2002 the vessel went on weather standby. Equipment was tuned from 0400 until 1030.

Data acquisition on the Patricia-2 site survey was conducted from 1043 until 2119 on 18 March 2002. Data acquisition on the Baleen-3 site survey was conducted from 2148 on 18 March 2002 until 1233 on 19 March 2002. Magnetometer and seabed sampling were carried out to complete both site survey areas until 2053.

From 2200 on 19 March 2002 until 0828 on 20 March 2002 data acquisition was carried out on the Patricia-Baleen pipe route survey. At 0900 on 20 March 2002 the vessel commenced transit to the Sole-2 site survey location but poor conditions forced the vessel to divert to shelter. At 1700 the vessel dropped anchor for weather down time in the lee of Gabo Island. The anchor was recovered at 2359 on 21 March 2002 and the vessel transited to the Sole-2 site, arriving at 0800 on 22 March 2002. All survey operations were completed on Sole-2 at 2000 on 23 March 2002.

At 2041 on 23 March 2002 data acquisition commenced on the scouting line from Sole-2 to meet with the Patricia-Baleen survey line. This was completed at 0330 on 24 March 2002 and transit commenced to Port Welshpool at 0400.

10. PERSONNEL AND EQUIPMENT

10.1 PERSONNEL

The following personnel were employed on this project:

For: Thales GeoSolutions (Australasia) Limited

Chris Shuttleworth	-	Team Leader/Senior Surveyor
Marc Dybala	-	Surveyor
Laurie Etheridge	-	Senior Underwater Engineer
Jeremy Antao	-	Underwater Engineer
Patrick Fournier	-	Offshore Geophysicist
Luis McArthur	-	Interpretation Geophysicist

For: OMV Australia Pty Limited

Rick Glanville	-	Client Representative

10.2 EQUIPMENT

NAVIGATION

2 x Trimble 4000 Series GPS Receivers
3 x SkyFix/LandStar Demodulators
2 x LandStar Whip Antennae
1 x Skyfix Minidome plus controller
2 x Compaq Pentium Desktop GNS2 Computers
1 x Compaq 486/66 MHz Desktop MultiFix3 Computer
2 x Epson LX300 Printers
2 x SG Brown 1000S Gyro Compass
2 x Helmsman's GNS2 Remote Display
1 x 3KVA Un-interruptible Power Supply

GEOPHYSICAL

ECHO SOUNDER
2 x Atlas Deso 15 Single Beam Echo Sounder
2 x Overboard Transducer (Dual Frequency)
1 x Model XR-666 230vac to 24vdc Power Converter
2 x SV-Plus Velocity Probe
1 x E/S Bar Check
1 x TSS DMS 2-05 Motion Sensor
1 x TSS 335 Motion Sensor

SIDE SCAN SONAR
2 x GeoAcoustics Transceiver Units
2 x Dual Frequency (100 and 500 kHz) Towfish Assemblies
2 x Side Scan Sonar Deck Cables
2 x CODA DA200 Acoustic Recorder
2 x Alden 9315 CTP printer
1 x Seamac Winch
1 x Electric/Hydraulic Winch

BOOMER SYSTEM
2 x EG&G Surface Tow Source
2 x CSP 1000 Cap/Disch Power supplies
1 EG&G Power Supply Model 232-A
1 EG&G Triggered Capacitor Bank Model 231
2 x EG&G Type Hydrophones
2 x TSS 307 TVG amplifiers
Auto transformer
2 x Krohne-Hite Filters

MAGNETOMETER
2 x Geometrics G-800 marine caesium magnetometers
2 x Magnetometer Deck Leads
2 x Geometrics MagSea Computer System

11. DISTRIBUTION

Copies of this report have been distributed as follows:

OMV Australia Pty Ltd : 4 copies
Attn: Mr Ron King

Thales GeoSolutions (Australasia) Limited : 1 copy

John Graindorge
Senior Geophysicist

Anthony Kerr
Survey Manager

APPENDIX A

SAFETY REPORTS

VESSEL INDUCTION/PRE-MOBILISATION MEETING

MINUTES

Date : 15 March 2002 **Job No. :** 3347C1 Baleen-3 Site Survey
Time : 0800 **Location :** AMC, Beauty Point

Present : TGA Personnel and Bluefin Marine Crew

The Party Chief opened the meeting & made the following points.

1) Everything to be proven & tested prior to departure.
2) A detailed discussion on where all the equipment to be positioned & what required welding & testing.
3) An explanation of the site, including size, water depth & procedures.
4) Talk of the safety requirements during mobilisation, including hot work certificates, PPE, cranage, etc.
5) Explanation of survey crew shift pattern & responsibilities.
6) Safety environment & hierarchy, need to keep hazard free as possible.

The First Officer.

1) No smoking within the vessel. Restrictions on smoking on deck.
2) Restriction on personnel in working areas on back deck.
3) Safety chains on stern when applicable.
4) No work boots in accommodation, keep clean environment.

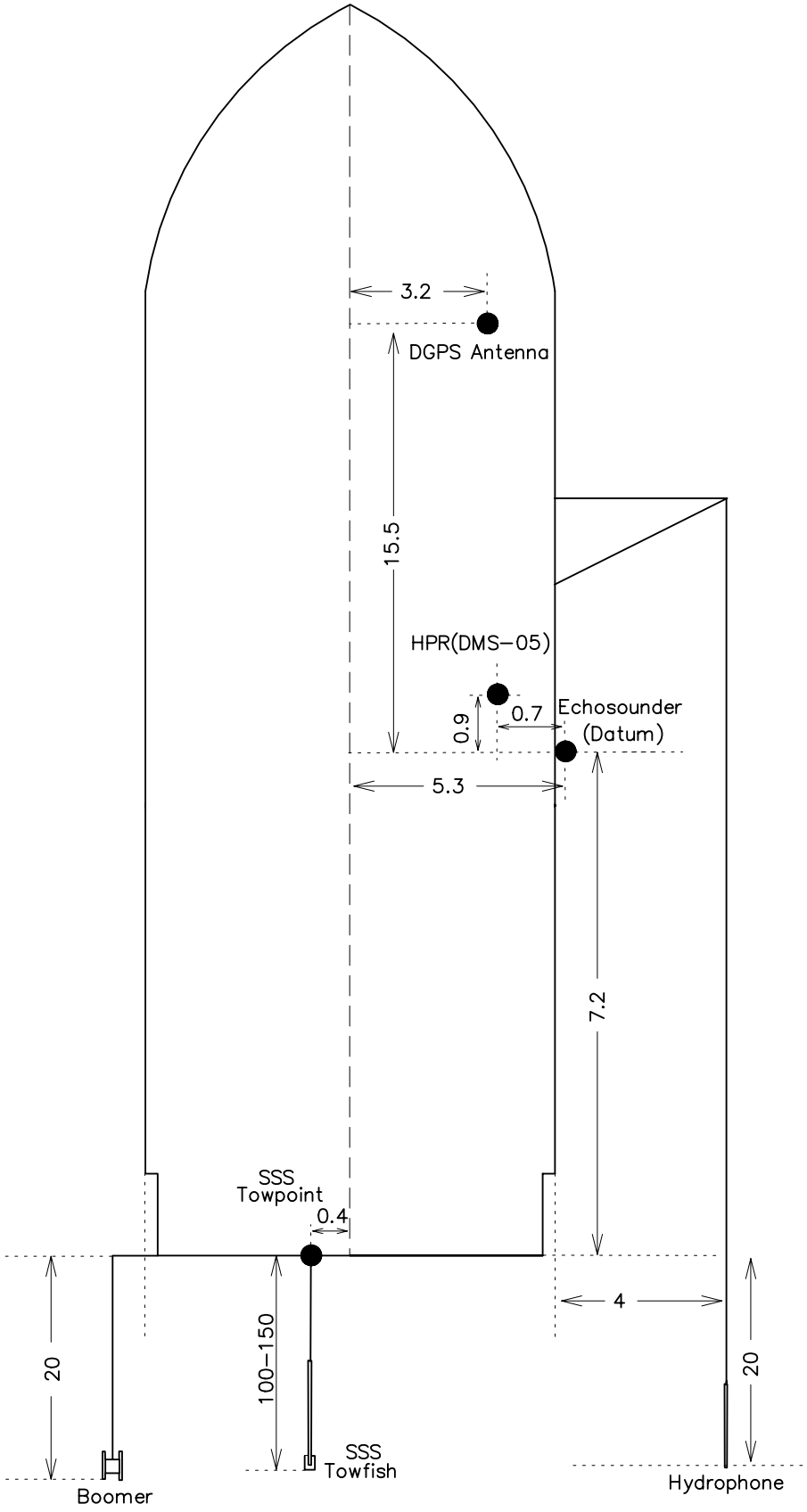
The Party Chief then thanked all attendees, the survey crew were then taken on the vessel induction tour by the First Officer.

APPENDIX B

OFFSET DIAGRAM - BLUEFIN

FTV BLUEFIN

(NOT TO SCALE)



UNITS IN METRES

APPENDIX C

GNS SYSTEM DATA PRINTOUT

GNS II CONFIGURATION FILE C:\3346C1_Site Surveys\Bass Strait.gns

JOB DETAILS
Job Number : 3346C1
Job Description : Site Surveys
Company : Thales GeoSolutions Group Ltd
Client : OMV
Time Zone : GMT +11:00

WORKING SPHEROID
AGD 1966
Semi-major : 6378160.000 m
e Squared : 0.006694541855

WORKING PROJECTION
AMG Zone 55
Lat of Origin : 00°00'00.000"N
Long of Origin : 147°00'00.000"E
False Easting : 500000.00
False Northing : 10000000.00
Scale Factor : 0.999600
Units : Metres

GPS TRANSFORMATION
From : WGS 84
Semi-major : 6378137.000 m
e Squared : 0.006694380067
To : AGD 1966
Dx : 123.314 m
Dy : 47.223 m
Dz : -136.594 m
Rot x : 0.2640 secs
Rot y : 0.3220 secs
Rot z : 0.2700 secs
Scale : 1.3840 ppm

MOBILES
Blue Fin (ship)
Shape Definition: Bluefin
Line:-
X: -10.30 m Y: -7.00 m
X: -10.30 m Y: 13.00 m
X: -5.30 m Y: 23.00 m
X: -0.30 m Y: 13.00 m
X: -0.30 m Y: -7.00 m
X: -10.30 m Y: -7.00 m

Tracking Point : Datum
Pitch and Roll Centre: HPR

Selected Sources:-
Primary Position : T1 Thales UKOOA (Using Antenna Offset : GPS)
Backup Position : T3 Thales UKOOA (Using Antenna Offset : GPS)
Primary Heading : S1 SGB 1000S
Primary Height : Datum Displacement

Verified by: (sign)_____ (print)_____

GNS II CONFIGURATION FILE C:\3346C1_Site Surveys\Bass Strait.gns

```
   Pitch and Roll    : T2 TSS DMS-05
   Heave Sensor      : T2 TSS DMS-05
   Soundings         : A1 Atlas Deso 15 Ch1
   Speed             : Position Filter
   Course Made Good  : Posn Filter CMG

  Equipment:-
   T1 Thales UKOOA
    Status:  ON   Interface: COM3
    Antenna Offset Selected: GPS
     X:   -2.10 m Y:   15.49 m Z:    0.00 m Rng:   15.63 m Brg:352.3°
    Apply Pitch Roll: Instantaneous  Stale Time: 5.0 s  Posn SD: 3.0 m  Ht S
    Update posn regardless of whether diff corrected
    Filter: Off  Time Constant:60.0 s  Sample Dwell: 0.5 s
    Gate: Off  Gate Width: 9.0 xSD  Minimum Gate: 0.0 m

   T3 Thales UKOOA
    Status:  ON   Interface: COM4
    Antenna Offset Selected: GPS
     X:   -2.10 m Y:   15.49 m Z:    0.00 m Rng:   15.63 m Brg:352.3°
    Apply Pitch Roll: Instantaneous  Stale Time: 5.0 s  Posn SD: 3.0 m  Ht S
    Update posn regardless of whether diff corrected
    Filter: Off  Time Constant:60.0 s  Sample Dwell: 0.5 s
    Gate: Off  Gate Width: 9.0 xSD  Minimum Gate: 0.0 m

   S1 SGB 1000S
    Status:  ON   Interface: COM5
    C-O:   0.8 degs  Stale Time: 5.0 s  SD: 0.1 degs
     Filter: Off  Gate: Off  Time Constant: 5.0 s  Sample Dwell: 0.5 s

   T2 TSS DMS-05
    Status:  ON   Interface: COM7
    Pitch C-O:   0.0 degs  Roll C-O:   0.0 degs  Stale Time: 0.2 s

   C1 CODA DA200
    Status:  ON   Interface: COM8
    Antenna Offset Selected: Datum
     X:    0.00 m Y:    0.00 m Z:    0.00 m Rng:    0.00 m Brg:  0.0°

   A1 Atlas Deso 15
    Status:  ON   Interface: COM6
    Tdr 1:Datum
     X:    0.00 m Y:    0.00 m Z:    0.00 m Rng:    0.00 m Brg:  0.0°
    Tdr 2:Datum
     X:    0.00 m Y:    0.00 m Z:    0.00 m Rng:    0.00 m Brg:  0.0°
    Stale Time: 5.0 s
    Corrections Applied:-
     Is Heave Compensated: Yes  Tdr Draught entered in E/S:  0.00 m
    Apply Corrections:-
     Heave Compensate: No   Correct for Draught: No   Correct for Pitch and
    Sounding Selection:-
     Mode: All  Gate: No  Gate Window: 25.00
    Annotation: Yes  Every: 1 fixes
```

Verified by: (sign)_____ (print)_____

GNS II CONFIGURATION FILE C:\3346C1_Site Surveys\Bass Strait.gns

Defined Offsets:-

Datum									
	X:	0.00 m	Y:	0.00 m	Z:	0.00 m	Rng:	0.00 m	Brg: 0.0°
GPS									
	X:	-2.10 m	Y:	15.49 m	Z:	0.00 m	Rng:	15.63 m	Brg:352.3°
Stern									
	X:	-5.30 m	Y:	-7.17 m	Z:	0.00 m	Rng:	8.92 m	Brg:216.5°
SSS									
	X:	-5.70 m	Y:	-7.17 m	Z:	0.00 m	Rng:	9.16 m	Brg:218.5°
HPR									
	X:	-0.70 m	Y:	0.93 m	Z:	0.00 m	Rng:	1.16 m	Brg:323.0°

Verified by: (sign)_____ (print)_____

APPENDIX D

GYROCOMPASS CALIBRATIONS PRINTOUTS

THALES

Thales GeoSolutions (Australasia) Limited

ABN 82 000 601 909

Gyrocompass Calibration

Thales Job Number: 3346C1
Job Description: Bass Strait Site Surveys
Client: OMV
Party Chief: C.Shuttleworth
Surveyor: M.Dybala
Wharf: Beauty Point
Vessel: Blue Fin
Date: 16 March 2002

Control Point Co-ordinates

Datum: AGD66 Projection: AMG Zone 55 CM 147° East

Instrument Station:	AMC5	Easting (m):	485 188.128
		Northing (m):	5 443 443.762
		AHD Height (m):	0.000
Backsight Station:	AMC2	Easting (m):	485 232.088
		Northing (m):	5 443 475.890
		AHD Height (m):	0.000

Calculated Grid Bearing (DMS):	053	50	20	
Calculated Grid Convergence (DMS):	000	06	58	Negative-Grid North East of True North

Gyrocompass Observations

Backsight Observation (DMS): 000 00 00

Time (hh:mm:ss)	Observation Point	Observed Direction (DMS)			Observed Distance (m)	Observed (O) True Heading (D.D)
11:34:40	Bow	343	21	35	70.910	338.80
11:35:20	Stern	001	12	00	61.880	339.20
11:35:50	Bow	343	30	25	70.840	339.00
11:36:20	Stern	001	03	05	61.935	339.00
11:36:50	Bow	343	20	05	70.830	338.80
11:37:20	Stern	001	03	40	61.930	338.50
11:37:50	Bow	343	23	55	70.730	338.20
11:38:20	Stern	001	10	45	61.890	337.80
11:40:10	Bow	343	19	05	70.720	338.80
11:40:40	Stern	001	10	55	61.980	338.20
11:41:00	Bow	343	20	25	70.750	337.70
11:41:40	Stern	001	16	25	61.835	338.70
11:42:20	Bow	343	17	40	70.935	339.00
11:43:00	Stern	001	6	30	61.970	339.30
11:43:30	Bow	343	23	40	70.910	339.00
11:44:00	Stern	001	6	30	62.000	338.30
11:44:30	Bow	343	22	40	70.685	338.20
11:45:00	Stern	001	12	45	61.815	339.00
11:45:40	Bow	343	19	45	70.500	338.80
11:46:10	Stern	001	21	5	62.020	338.70

Signature

SURVEYOR/PARTY CHIEF

CLIENT SURVEY REPRESENTATIVE

THALES

Thales GeoSolutions (Australasia) Limited

ABN 82 000 601 909

Gyrocompass Calibration

Thales Job Number: 3346C1
Job Description: Bass Strait Site Surveys
Client: OMV
Party Chief: C.Shuttleworth
Surveyor: M.Dybala
Wharf: Beauty Point
Vessel: Blue Fin
Date: 16 March 2002

Datum: AGD66 Projection: AMG Zone 55 CM 147° East

Time (hh:mm:ss)	Observation Point	Observed Direction (DMS)			Observed Distance (m)	Plane Bearing (DMS)			Plane Distance (m)	Calculated Co-ordinates		Calc (C) True Heading (D.D)	Obs (O) True Heading (D.D)	C-O (D.D)
										Easting (m)	Northing (m)			
11:34:40	Bow	343	21	35	70.910	037	11	55	70.882	485 230.982	5 443 500.222	339.66	339.00	0.66
11:35:20	Stern	001	12	00	61.880	055	02	20	61.855	485 238.821	5 443 479.206			
11:35:50	Bow	343	30	25	70.840	037	20	45	70.812	485 231.084	5 443 500.056	339.73	339.00	0.73
11:36:20	Stern	001	03	05	61.935	054	53	25	61.910	485 238.774	5 443 479.369			
11:36:50	Bow	343	20	05	70.830	037	10	25	70.802	485 230.909	5 443 500.177	339.42	338.65	0.77
11:37:20	Stern	001	03	40	61.930	054	54	00	61.905	485 238.776	5 443 479.358			
11:37:50	Bow	343	23	55	70.730	037	14	15	70.702	485 230.911	5 443 500.050	339.32	338.00	1.32
11:38:20	Stern	001	10	45	61.890	055	01	05	61.865	485 238.816	5 443 479.230			
11:40:10	Bow	343	19	05	70.720	037	09	25	70.692	485 230.826	5 443 500.102	338.94	338.50	0.44
11:40:40	Stern	001	10	55	61.980	055	01	15	61.955	485 238.892	5 443 479.280			
11:41:00	Bow	343	20	25	70.750	037	10	45	70.722	485 230.866	5 443 500.110	339.34	338.20	1.14
11:41:40	Stern	001	16	25	61.835	055	06	45	61.810	485 238.830	5 443 479.115			
11:42:20	Bow	343	17	40	70.935	037	08	00	70.907	485 230.932	5 443 500.291	339.44	339.15	0.29
11:43:00	Stern	001	06	30	61.970	054	56	50	61.945	485 238.838	5 443 479.339			
11:43:30	Bow	343	23	40	70.910	037	14	00	70.882	485 231.016	5 443 500.196	339.48	338.65	0.83
11:44:00	Stern	001	06	30	62.000	054	56	50	61.975	485 238.862	5 443 479.356			
11:44:30	Bow	343	22	40	70.685	037	13	00	70.657	485 230.863	5 443 500.030	339.25	338.60	0.65
11:45:00	Stern	001	12	45	61.815	055	03	05	61.790	485 238.775	5 443 479.158			
11:45:40	Bow	343	19	45	70.500	037	10	05	70.472	485 230.704	5 443 499.919	339.54	338.75	0.79
11:46:10	Stern	001	21	05	62.020	055	11	25	61.995	485 239.029	5 443 479.152			

Mean C-O 0.76

Signature

SURVEYOR/PARTY CHIEF

CLIENT SURVEY REPRESENTATIVE

APPENDIX E

STATIC DIFFERENTIAL GPS CHECK PRINTOUTS

Thales GeoSolutions (Australasia) Limited

ABN 82 000 601 909

Static Differential GPS Check

Thales Job Number: 3346C1
Job Description: Bass Strait Site Surveys
Client: OMV
Party Chief: C.Shuttleworth
Surveyor: M.Dybala
Wharf: Beauty Point
Vessel: Blue Fin
Date: 16 March 2002

Control Point Co-ordinates

Datum: AGD66 Projection: AMG Zone 55 CM 147° East

Instrument Station:	AMC5	Easting (m):	485 188.128
		Northing (m):	5 443 443.762
		AHD Height (m):	0.000
Backsight Station:	AMC2	Easting (m):	485 232.088
		Northing (m):	5 443 475.890
		AHD Height (m):	0.000

Calculated Grid Bearing (DMS):	053	50	20	
Calculated Grid Convergence (DMS):	000	06	58	Negative-Grid North East of True North

Observations To: **Vessel Datum**

Backsight Observation (DMS): 000 00 00

Time (hh:mm:ss)	Observed Distance (m)	Observed Direction (DMS)			Positioning System DGPS Co-ordinates	
					Easting (m)	Northing (m)
11:49:50	73.080	345	23	35	485 235.440	5 443 500.200
11:50:15	73.130	345	19	50	485 235.460	5 443 500.320
11:50:35	73.250	345	24	30	485 235.350	5 443 500.040
11:50:55	73.265	345	23	35	485 235.300	5 443 499.640
11:51:15	73.270	345	23	35	485 235.120	5 443 499.300
11:51:30	73.210	345	22	40	485 234.930	5 443 498.870
11:51:45	73.120	345	20	50	485 234.910	5 443 498.780
11:52:05	73.110	345	26	45	485 234.790	5 443 498.780
11:52:20	73.010	345	27	15	485 234.700	5 443 498.870
11:52:35	72.980	345	30	10	485 234.740	5 443 499.020

Signature

SURVEYOR/PARTY CHIEF

CLIENT SURVEY REPRESENTATIVE

THALES

Thales GeoSolutions (Australasia) Limited

ABN 82 000 601 909

Static Differential GPS Check

Thales Job Number: 3346C1
Job Description: Bass Strait Site Surveys
Client: OMV
Party Chief: C.Shuttleworth
Surveyor: M.Dybala
Wharf: Beauty Point
Vessel: Blue Fin
Date: 16 March 2002

Datum: AGD66 Projection: AMG Zone 55 CM 147° East

Observations To: **Vessel Datum**

Time (hh:mm:ss)	Observed Direction (DMS)			Observed Distance (m)	Plane Bearing (DMS)			Plane Distance (m)	Calculated Co-ordinates		Positioning System DGPS Co-ordinates		Linear Misclose (m)
									Easting (m)	Northing (m)	Easting (m)	Northing (m)	
11:49:50	345	23	35	73.080	039	13	55	73.051	485 234.330	5 443 500.347	485 235.440	5 443 500.200	1.12
11:50:15	345	19	50	73.130	039	10	10	73.101	485 234.300	5 443 500.436	485 235.460	5 443 500.320	1.17
11:50:35	345	24	30	73.250	039	14	50	73.221	485 234.452	5 443 500.466	485 235.350	5 443 500.040	0.99
11:50:55	345	23	35	73.265	039	13	55	73.236	485 234.447	5 443 500.490	485 235.300	5 443 499.640	1.20
11:51:15	345	23	35	73.270	039	13	55	73.241	485 234.450	5 443 500.494	485 235.120	5 443 499.300	1.37
11:51:30	345	22	40	73.210	039	13	00	73.181	485 234.397	5 443 500.460	485 234.930	5 443 498.870	1.68
11:51:45	345	20	50	73.120	039	11	10	73.091	485 234.310	5 443 500.415	485 234.910	5 443 498.780	1.74
11:52:05	345	26	45	73.110	039	17	05	73.081	485 234.401	5 443 500.327	485 234.790	5 443 498.780	1.60
11:52:20	345	27	15	73.010	039	17	35	72.981	485 234.346	5 443 500.243	485 234.700	5 443 498.870	1.42
11:52:35	345	30	10	72.980	039	20	30	72.951	485 234.375	5 443 500.181	485 234.740	5 443 499.020	1.22

Mean Linear Misclose (m) **1.35**

Surveyor _____

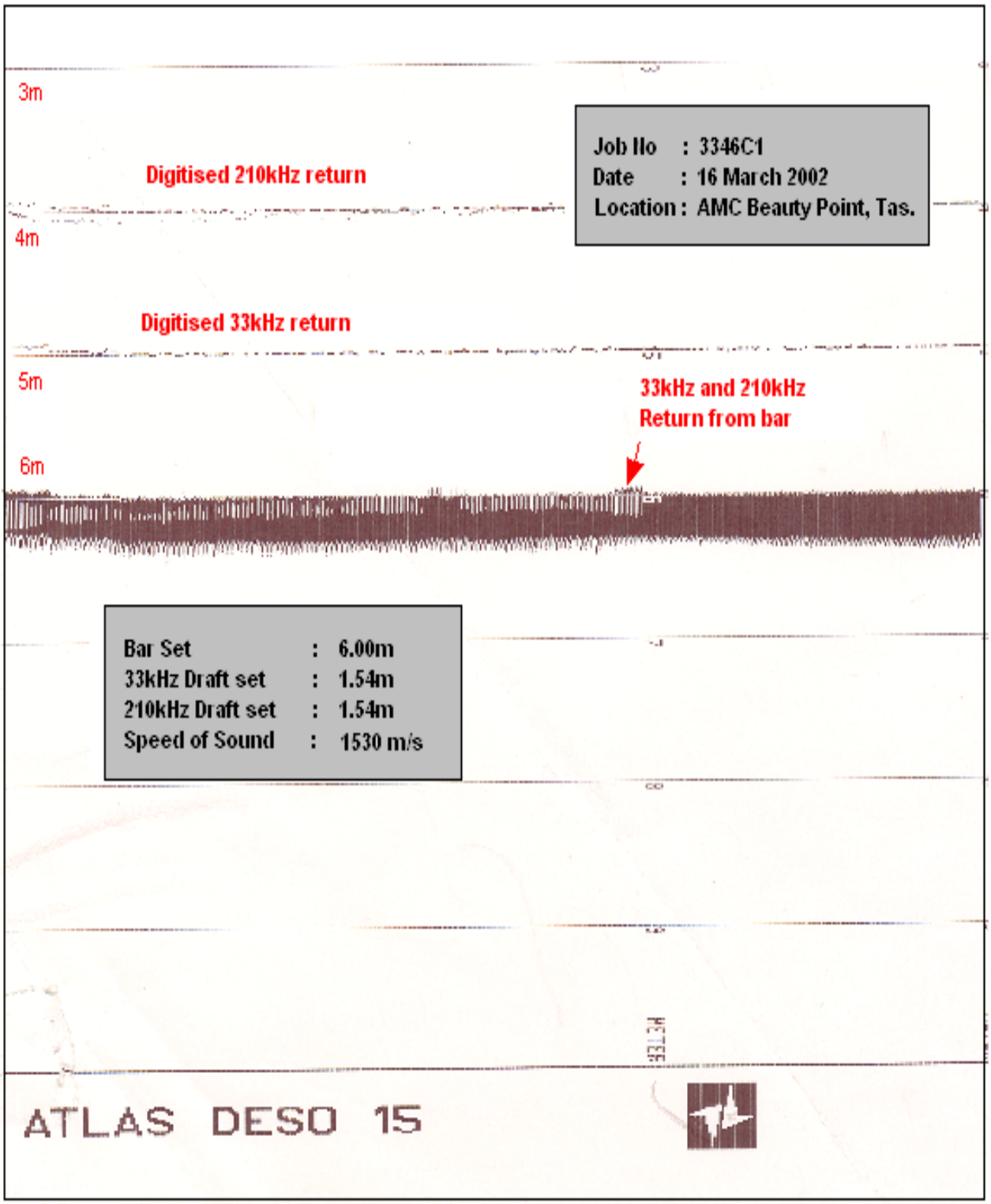
SURVEYOR/PARTY CHIEF

_____

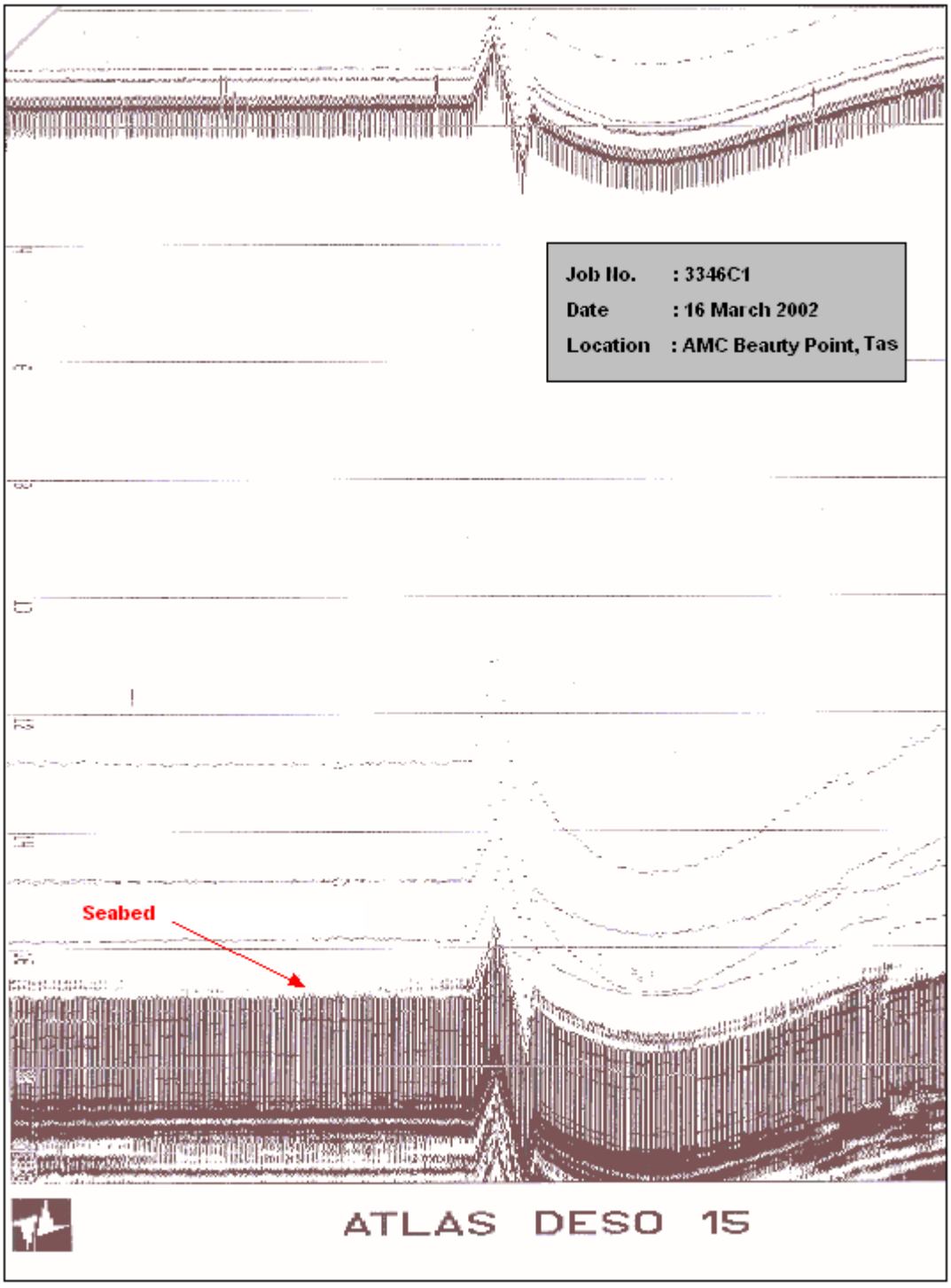
CLIENT SURVEY REPRESENTATIVE

APPENDIX F

BAR CHECK & MOTION SENSOR CHECK



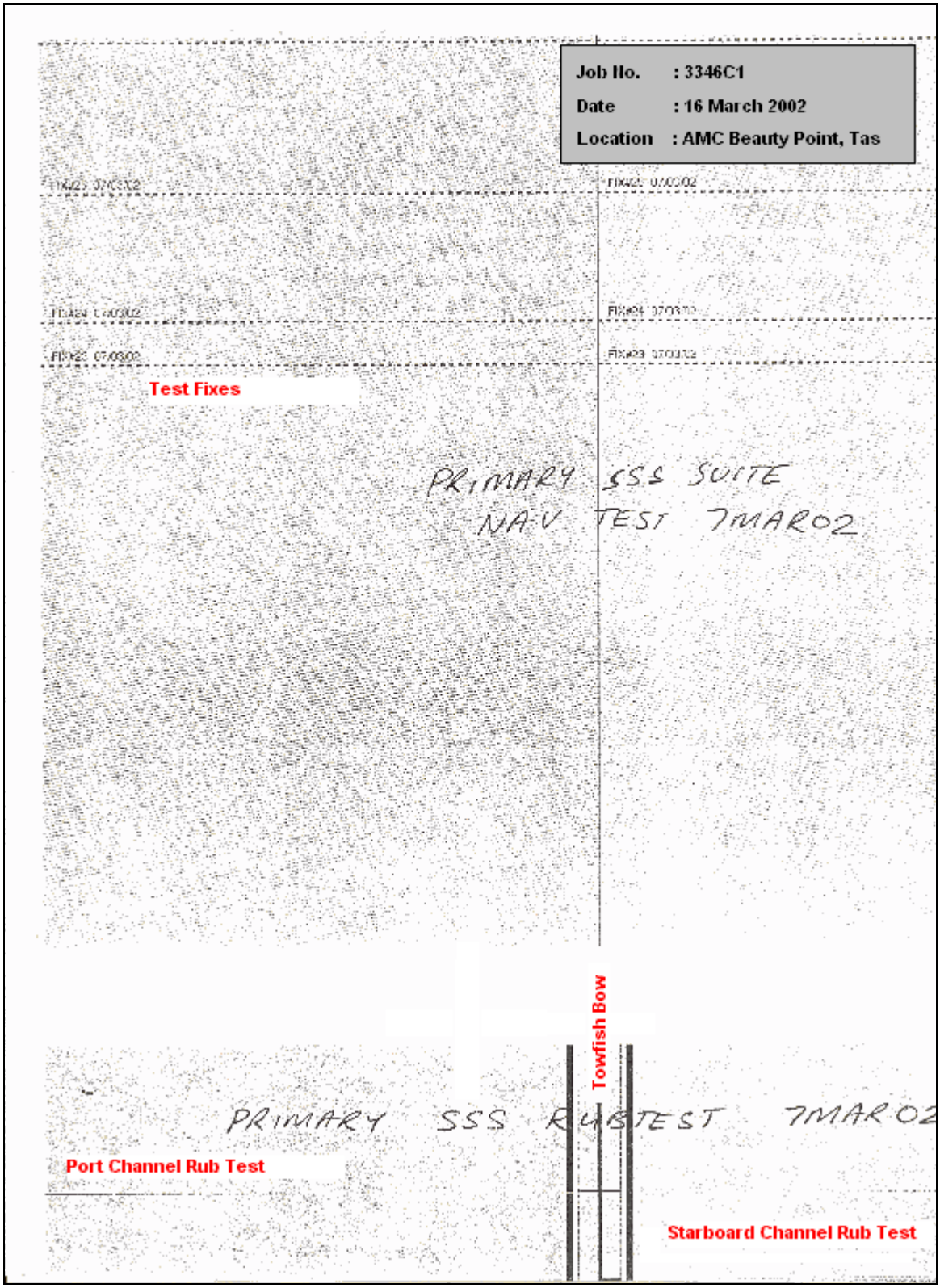
Primary Atlas Deso 15 Echo Sounder Bar Check



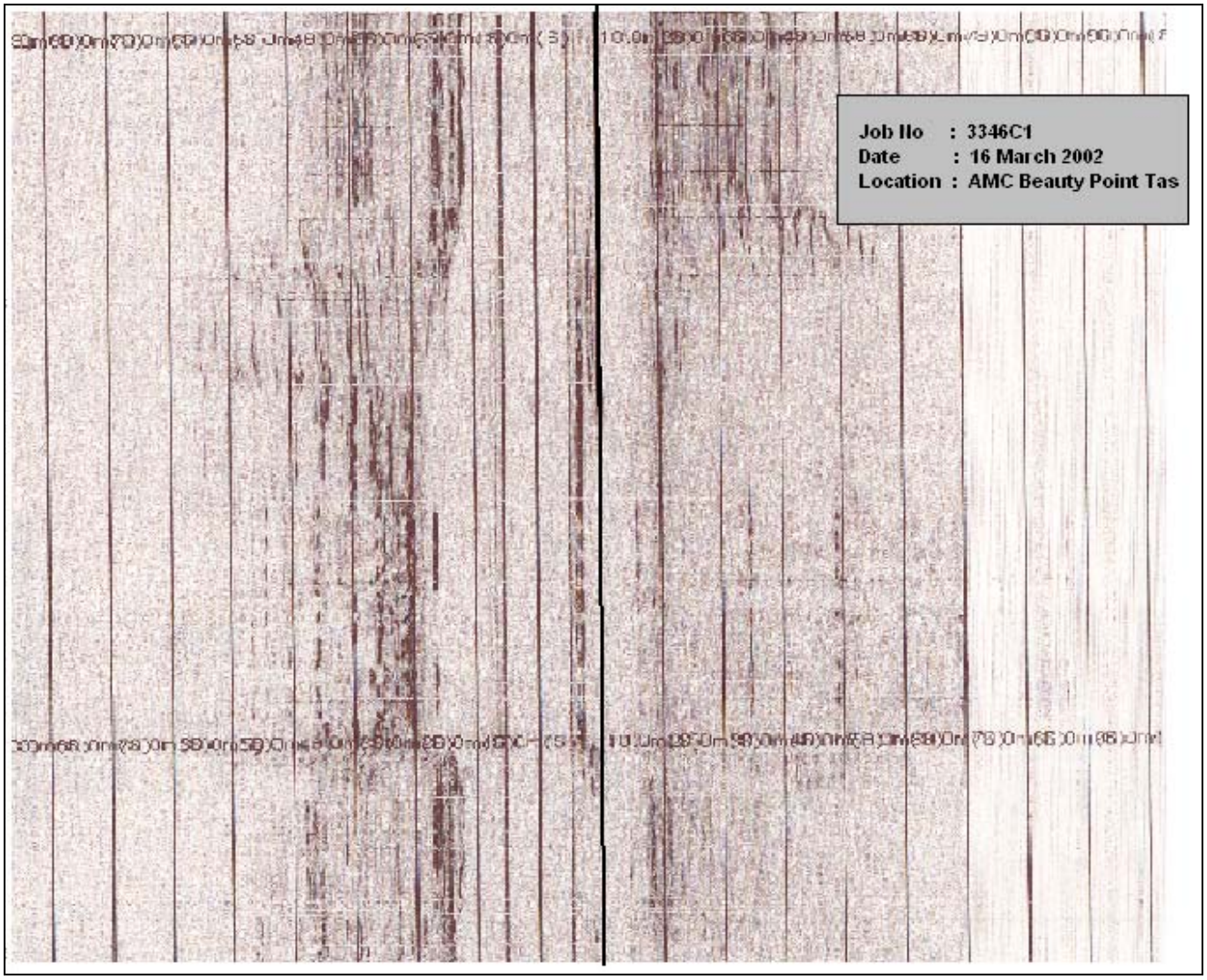
TSS DMS-05 Motion Sensor Test

APPENDIX G

SIDE SCAN SONAR WET TEST & RUB TEST



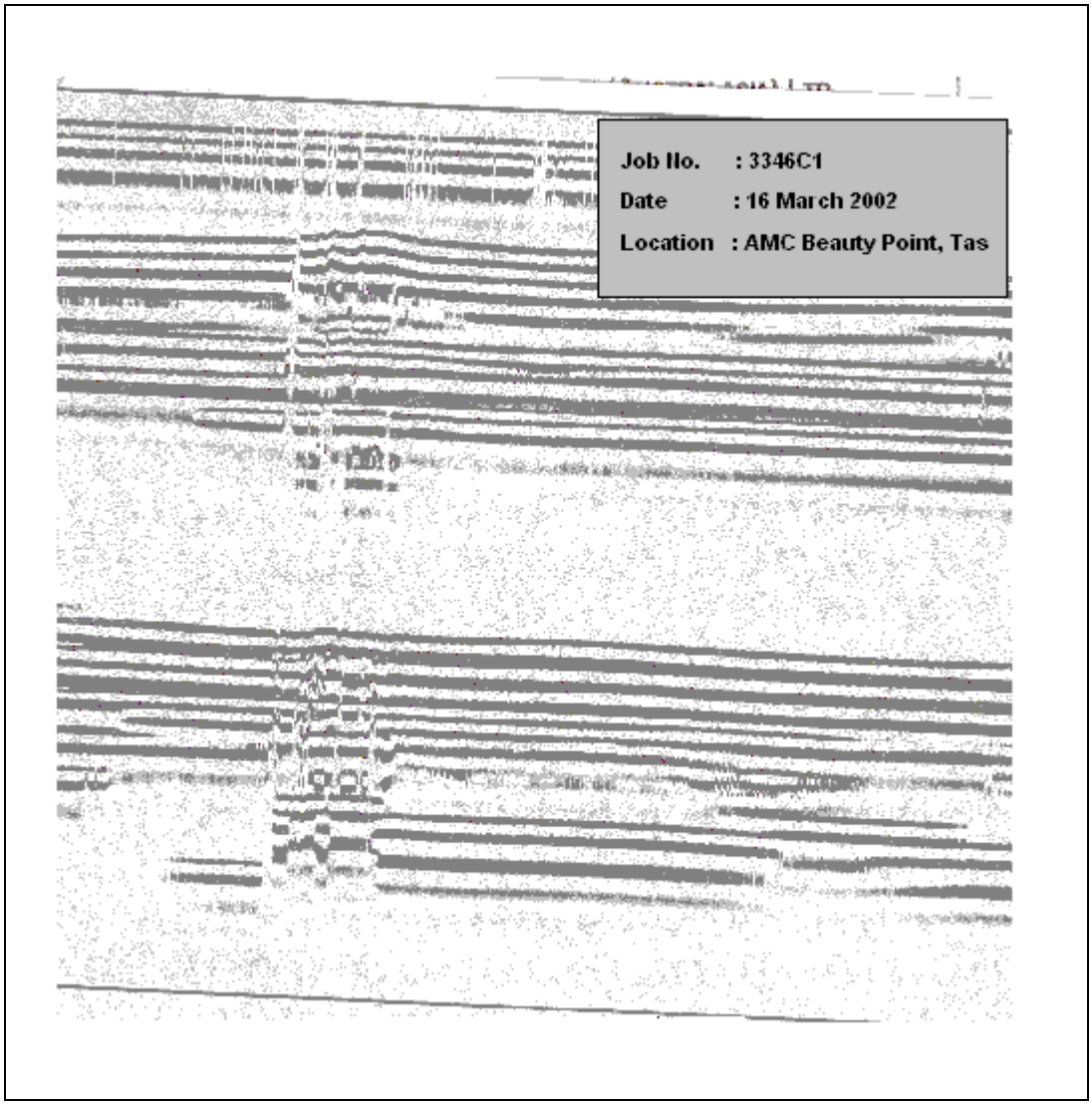
Primary Side Scan Sonar Towfish Nav Test and Rub Test



Primary Side Scan Sonar Towfish Wet Test

APPENDIX H

BOOMER WET TEST AND PULSE TEST



Primary Boomer Sub-Bottom Profiler System Wet Test

APPENDIX I

VELOCITY OF SOUND IN SEAWATER PROFILE

Sound Velocity Profile

Date : 17 March 2002

Location : Bass Strait Baleen-3 Site Survey

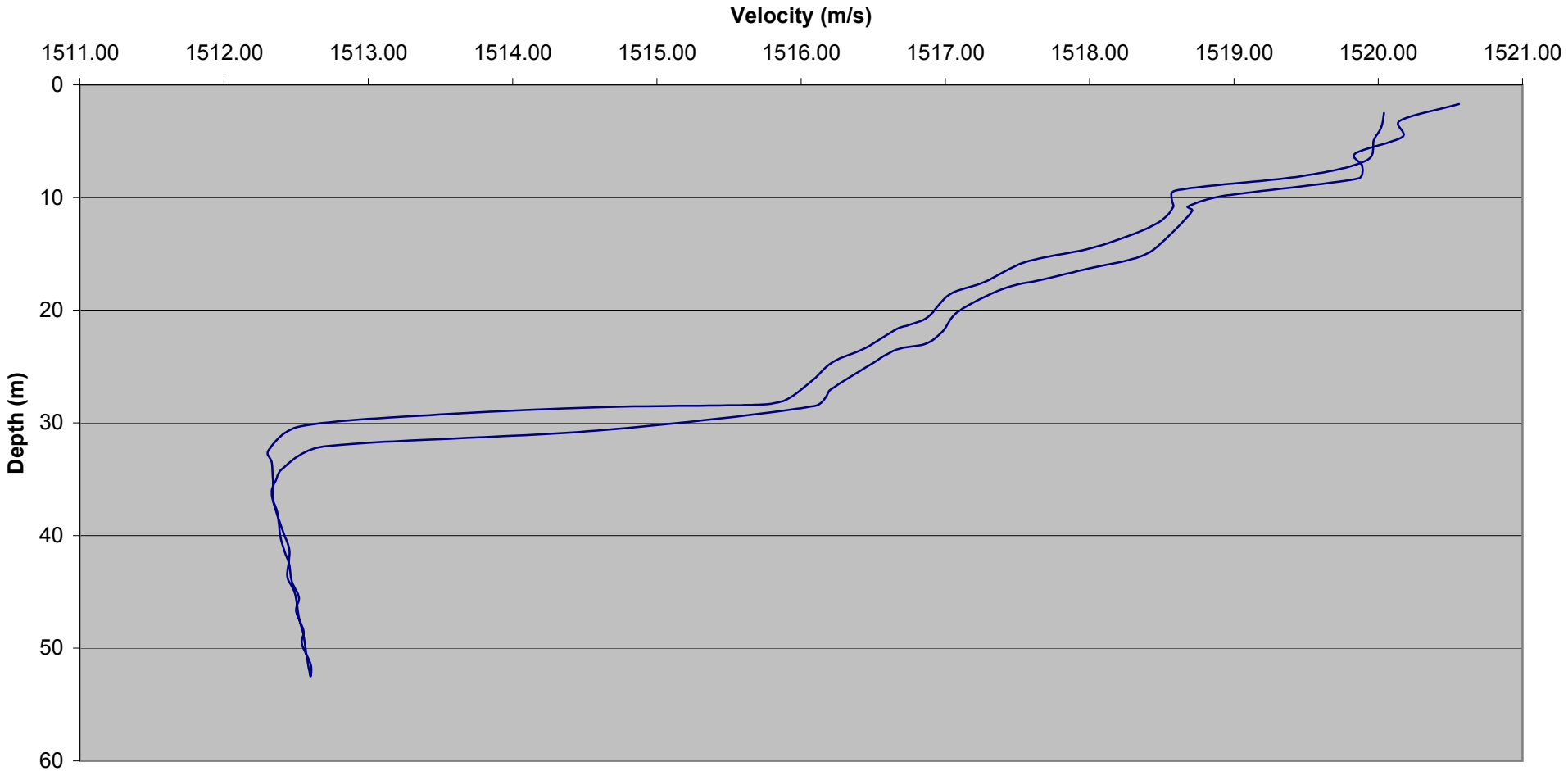
Job No. : 3347C1

Model : Applied Microsystems SV Plus

Pressure	Temperature	Sndvel	Battery
1.7	19.246	1520.56	12.16
3.2	19.233	1520.15	12.16
4.6	19.232	1520.17	12.16
6.1	19.196	1519.84	12.16
7.2	19.152	1519.89	12.16
8.3	19.137	1519.86	12.16
9.9	18.98	1518.91	12.16
10.8	18.802	1518.68	12.16
11.2	18.739	1518.71	12.16
13.5	18.703	1518.54	12.16
15.2	18.638	1518.36	12.16
16.4	18.547	1517.96	12.16
17.3	18.45	1517.67	12.16
18.1	18.319	1517.40	12.16
20.1	18.18	1517.09	12.16
21.9	18.126	1516.98	12.16
23	18.077	1516.86	12.16
23.5	18.028	1516.66	12.16
24.9	17.951	1516.47	12.16
27.1	17.873	1516.20	12.16
28.5	17.795	1516.09	12.17
30.7	17.614	1514.57	12.17
32.1	17.219	1512.69	12.17
34	16.624	1512.41	12.17
35.1	16.547	1512.36	12.17
36.2	16.485	1512.33	12.17
37.8	16.479	1512.36	12.17
39.7	16.476	1512.41	12.17
41.1	16.477	1512.45	12.17
42.2	16.473	1512.45	12.17
43.7	16.471	1512.44	12.17
45.1	16.472	1512.49	12.17
47.3	16.471	1512.52	12.17
48.8	16.472	1512.55	12.17
51.2	16.47	1512.58	12.17
52.5	16.47	1512.60	12.17
51.4	16.47	1512.60	12.17
49.6	16.47	1512.54	12.17
48.4	16.469	1512.55	12.17
46.7	16.469	1512.50	12.17
45.5	16.468	1512.52	12.18
44.1	16.467	1512.47	12.17
42.5	16.467	1512.45	12.17
41.4	16.468	1512.42	12.17
40.1	16.469	1512.39	12.17
38	16.467	1512.37	12.17
36.8	16.466	1512.34	12.17
35.3	16.466	1512.34	12.17
33.5	16.468	1512.33	12.17

32.4	16.472	1512.31	12.17
30.3	16.513	1512.53	12.18
29.2	16.611	1513.56	12.17
28.6	16.83	1514.63	12.17
28.4	17.501	1515.70	12.17
28	17.582	1515.89	12.17
26.2	17.708	1516.08	12.17
24.6	17.757	1516.22	12.17
23.4	17.848	1516.44	12.17
21.7	17.916	1516.66	12.18
21.3	17.951	1516.75	12.17
20.6	18.019	1516.88	12.17
18.6	18.061	1517.03	12.17
17.5	18.167	1517.27	12.17
15.7	18.239	1517.56	12.17
14.6	18.339	1517.98	12.17
13.5	18.468	1518.25	12.17
12.2	18.564	1518.48	12.17
10.8	18.635	1518.58	12.17
9.4	18.663	1518.59	12.17
8.1	18.796	1519.47	12.17
6.7	19.063	1519.92	12.18
4.9	19.146	1519.97	12.17
3.8	19.179	1520.02	12.17
2.5	19.191	1520.04	12.17
	Average	**1515.69**	

Sound Velocity Profile
Date : 17 March 2002
Location : Bass Strait Baleen-3 Site Survey
Job No. : 3347C1



APPENDIX J

SURVEY LINE LOGS

THALES

SIDE SCAN SONAR AND SUB BOTTOM PROFILER ANALOGUE LOG SHEET			Page No 1 of 1
JOB NO: 3347C1	SITE: Baleen-3	OPERATORS: LE - JA	

Date	Line No.	Fixes		Times		SSS		SBP		ES	Cable Out	Comments
		SOL	EOL	SOL	EOL	Disc	Roll	Disc	Roll	Roll	@SOL	
18/03/02	BP1	846	891	21:48	22:10	1A	1	1A	1	1	105	
18/03/02	BP4	892	941	22:19	22:43	1A	1	1A	1	1	102	
18/03/02	BP7	942	1023	23:09	23:49	1A	1	1A	1	1	102	#950 STBD SIDE 90M WELLHEAD
18/03/02	BP10	1024	1072	23:59	00:03	1A	1	1A	1	1	100	
19/03/02	BP13	1073	1116	00:31	00:52	1A	1	1A	1	1	110	
19/03/02	BP16	1117	1163	01:03	01:26	1A	1	1A	1	1	100	
19/03/02	BP19	1164	1209	01:34	01:56	1A	1	1A	1	1	100	
19/03/02	BP20	1210	1256	02:11	02:34	1B	1	1B	1	1	100	
19/03/02	BP17	1257	1300	02:42	03:03	1B	1	1B	1	1	100	
19/03/02	BP14	1301	1349	03:13	03:37	1B	1	1B	1	1	100	
19/03/02	BP11	1350	1395	03:44	04:07	1B	1	1B	1	1	100	
19/03/02	BP8	1396	1442	04:17	04:40	1B	1	1B	1	1	100	
19/03/02	BP5	1443	1488	04:48	05:09	1B	1	1B	1	1	100	
19/03/02	BP2	1489	1536	05:20	05:44	1B	1	1B	1	1	100	
19/03/02	BP3	1537	1582	05:52	06:15	2A	1	2A	1	1	100	
19/03/02	BP6	1583	1666	06:23	07:05	2A	2	2A	1	1	100	
19/03/02	BP6S	1667	1672	07:12	07:15	2A	2	-	-	1	120	W/H @ #1671 SSS 60M STBD
19/03/02	BP9	1673	1719	07:28	07:51	2A	2	2A	1	1	100	
19/03/02	BP12	1720	1769	07:59	08:24	2A	2	2A	1	1	100	#1750 -#1751 W/H ON 60M PORT
19/03/02	BP15	1770	1812	08:31	08:53	2A	3	2A	1	1	100	
19/03/02	BP18	1813	1862	09:02	09:27	2A	3	2A	1	1	100	
19/03/02	BP21	1863	1907	09:38	10:00	2A	3	2A	1	1	100	HRB @20M H'PHONE @20M
19/03/02	BX5	1908	1937	10:18	10:33	2B	3	2B	1	1	100	
19/03/02	BX4	1938	1970	10:45	11:01	2B	3	2B	1	1	100	
19/03/02	BX3	1971	2003	11:11	11:27	2B	3	2B	1	1	100	
19/03/02	BX2	2004	2034	11:42	11:57	2B	3	2B	1	1	100	
19/03/02	BX1	2035	2063	12:09	12:23	2B	3	2B	1	1	101	

SIDE SCAN SONAR CABLE OUT LOG			Page 1 of 1
Job No: 3346c1	Site Name: Baleen-3	Operators:	

NB – ONLY FILL OUT LOG IF THERE ARE ANY ADDITIONAL CABLE CHANGES OTHER THAN THAT AT START OF LINE

Line Number	Fix Number	Cable Out
BP1	846-891	105
BP4	892-941	102
BP7	942-1023	106
BP10	1024-1072	100
BP13	1073-1116	100
BP16	1117-1163	100
BP19	1164-1209	100
BP20	1210-1256	100
BP17	1257-1300	100
BP14	1301-1349	100
BP11	1350-1395	100
BP8	1396-1442	100
BP5	1443-1488	100
BP2	1489-1536	100
BP3	1537-1582	100
BP6	1583-1672	100
BP9	1673-1719	100
BP12	1720-1769	100
BP15	1770-1812	100
BP18	1813-1862	100

Line Number	Fix Number	Cable Out
BP21	1863-1907	100
BX5	1908-1937	100
BX4	1938-1970	100
BX3	1971-2003	100
BX2	2004-2034	100
BX1	2035-2063	101

Line Number	Fix Number	Cable Out

Line Number	Fix Number	Cable Out

THALES

NAVIGATION AND ECHO SOUNDER ANALOGUE LOG INFORMATION COVER SHEET				Page 1 of 1
Client	OMV			
Project	Site Surveys			
Job No	3346C1 – 3349C1, 3375C1	**Vessel**	FTV Bluefin	
Area	Bass Strait	**Sites**	Patricia-2, Baleen-3 and Sole-2	
Date(s)	18 – 23 March 2002	**Operators**	ECS/MD	

Equipment	Make/Model	Serial No (Bar Code)	Software Version
Positioning System	Multifix 3	ARR000867	1.28
Navigation System	GNS II	ARR000866	2.35
Echo Sounder	Atlas Deso 15	ARR000607	
Motion Sensor	TSS DMS-05		

Datum	E/S Pole
GPS Ant Offset from Datum	X=-2.10, Y=+15.49
Stern Offset from Datum	X=-5.30, Y=-7.17

Echo Sounder Settings					
From Fix	**To Fix**	**210Khz Draft**	**33Khz Draft**	**SOS**	**Comments**
1	2988	1.54 m	1.54 m	1516 m/s	Heave applied in GNS II, not in echo sounder.
2989	5940	1.54 m	1.54 m	1518 m/s	Heave applied in GNS II, not in echo sounder.

THALES

NAVIGATION AND ECHO SOUNDER ANALOGUE LOG SHEET		
Job No: 3346C1	Operators: ECS/MD	

Date	Line No	Fixes		Times		ES Roll	Heading	Comments
		SOL	EOL	SOL	EOL			
18/03/02	P1NS+50	2	16	0639	0646	1	359	Dynamic SSS Check. No heave in E/S; applied in GNS.
	P1EW+50	17	30	0708	0715	1	89	Dynamic SSS Check. No heave in E/S; applied in GNS.
	PP1	31	63	1043	1059	1	51	Start Patricia-2 site survey.
	PP4	64	95	1112	1128	1	231	
	PP7	96	127	1137	1153	1	51	
	PP10	128	160	1207	1223	1	231	
	PP13	161	193	1237	1253	1	51	
	PP16	194	225	1303	1318	1	231	
	PP19	226	261	1329	1346	1	51	
	PP14	262	296	1358	1415	1	231	
	PP11	297	329	1427	1444	1	51	
	PP8	330	372	1452	1513	2	231	
	PP5	373	406	1528	1545	2	51	
	PP2	407	440	1553	1609	2	231	
	PP3	441	474	1619	1636	2	51	
	PP6	475	508	1644	1701	2	231	
	PP9	509	542	1709	1726	2	51	
	PP12	543	576	1735	1751	2	231	
	PP15	577	610	1801	1818	2	51	
	PP18	611	644	1828	1845	2	231	
	PP21	645	678	1856	1912	2	51	
	PP20	679	711	1921	1937	2	231	

THALES

NAVIGATION AND ECHO SOUNDER ANALOGUE LOG SHEET		
Job No: 3346C1	Operators: ECS/MD	

Date	Line No	Fixes		Times		ES Roll	Heading	Comments
		SOL	EOL	SOL	EOL			
18/03/02	PP17	712	745	1944	2001	2	51	No heave in E/S; applied in GNS.
	PX3	746	777	2015	2030	2	141	
	PX2	778	811	2039	2056	2	321	
	PX1	812	845	2103	2119	2	141	Patricia-2 site complete.

THALES

NAVIGATION AND ECHO SOUNDER ANALOGUE LOG SHEET		
Job No: 3347C1	Operators: ECS/MD	

Date	Line No	Fixes		Times		ES Roll	Heading	Comments
		SOL	EOL	SOL	EOL			
18/03/02	BP1	846	891	2148	2211	3	51	No heave in E/S; applied in GNS. Start of Baleen-3 site.
	BP4	892	941	2219	2243	3	231	
	BP7	942	1023	2309	2349	3	51	Long run-in to cover Baleen-2 wellhead.
19/03/02	BP10	1024	1072	2359	0023	3	231	
	BP13	1073	1116	0031	0052	3	51	
	BP16	1117	1163	0103	0126	3	231	
	BP19	1164	1209	0134	0156	3	51	
	BP20	1210	1256	0211	0234	3	231	
	BP17	1257	1300	0242	0303	3	51	
	BP14	1301	1349	0313	0337	3	231	
	BP11	1350	1395	0344	0407	3	51	
	BP8	1396	1442	0417	0440	3	231	
	BP5	1443	1488	0448	0511	3	51	
	BP2	1489	1536	0520	0544	3	231	
	BP3	1537	1582	0552	0615	3	51	
	BP6	1583	1666	0623	0705	3	231	Long run-out to cover Baleen-2 wellhead.
	BP6S	1667	1672	0712	0715	-	51	SSS only over Baleen-2 wellhead.
	BP9	1673	1719	0728	0751	3	51	
	BP12	1720	1769	0759	0824	3	231	
	BP15	1770	1812	0832	0853	3	51	
	BP18	1813	1862	0902	0927	3	231	
	BP21	1863	1907	0938	1000	4	51	

THALES

NAVIGATION AND ECHO SOUNDER ANALOGUE LOG SHEET		
Job No: 3347C1	Operators: ECS/MD	

Date	Line No	Fixes		Times		ES Roll	Heading	Comments
		SOL	EOL	SOL	EOL			
19/03/02	BX5	1908	1937	1019	1033	4	141	No heave in E/S; applied in GNS. Mast blocking Spot antenna, switch Skyfix mini-dome to primary.
	BX4	1938	1970	1045	1101	4	321	
	BX3	1971	2003	1111	1127	4	141	
	BX2	2004	2034	1143	1158	4	321	
	Bx1	2035	2063	1209	1233	4	141	End of Baleen-3 site.
	P1NS	2064	2084	1353	1404		180	Magnetometer only at Patricia-1 wellhead.
	P1EW	2085	2101	1422	1430		270	
	B2EW	2102	2119	1447	1456		270	Magnetometer only at Baleen-2 wellhead.
	B2Ewa	2120	2135	1509	1516		090	
	B2NS	2136	2153	1534	1542		000	
	B2NSa	2154	2168	1559	1606		180	
	B1NS	2169	2186	1635	1644		000	
	B1NSa	2187	2203	1652	1700		180	
	B1EW	2204	2221	1715	1723		270	
	B1Ewa	2222	2244	1731	1742		090	

APPENDIX K

FIELD SEABED SAMPLE DESCRIPTIONS

Gravity Core / Grab Sample Description

THALES

THALES GEOSOLUTIONS (AUSTRALASIA) LTD

CLIENT: OMV
PROJECT: Patricia-2
JOB No.: 3346C1
VESSEL: Bluefin
LOGGED BY Pat Fournier
POSITION EAST: 627 203.79
POSITION NORTH: 5 790 101.17
RECOVERY (m):

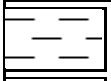
SAMPLE No.: GC1
WATER DEPTH (mLAT): 52.5
DATE: 19-Mar-02
TIME: 19:02
TYPE OF CORER Gravity corer
BARREL LENGTH (m): 2.0m
CORER WEIGHT: 500kg
CUTTER CONDITION ON RECOVERY:

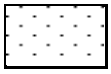
DEPTH (m)	LITHOLOGY	SAMPLE NUMBER	VISUAL DESCRIPTION	TORVANE (Kn/m^2)	PENETROMETER (Kn/m^2)
		GC1	No recovery		

Sample has been described by visual identification. A pocket penetrometer and a Torvane have been used to define the unconfined compressive strength and shear strength respectively, of the soil. The undrained shear strength of the soil is taken as half the unconfined compressive strength.

Note: field identification for strength of cohesive soils (AS 1726 - 1993)

		Undrained shear strength kN/m^2	kgf/cm^2
Very soft	Exudes between fingers when squeezed in fist	< 12	< 0.12
Soft	Easily moulded in the fingers	12 to 25	0.12 to 0.25
Firm	Can be moulded in the fingers by strong pressure	25 to 50	0.25 to 0.50
Stiff	Cannot be moulded in the fingers, can be indented by thumb	50 to 100	0.50 to 1.00
Very stiff	Can be indented by thumb nailVery tough	100 to 200	1.00 to 2.00
Hard	Can be indented with difficulty by thumb nail	>200	>2.00


CLAY

SILT

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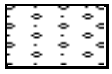
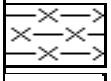

sandy GRAVEL

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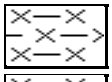
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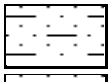
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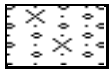
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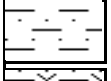
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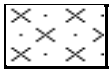
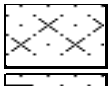

sandy SILT

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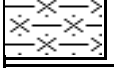
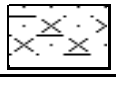
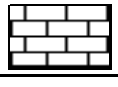

silty sandy CLAY

clayey silty SAND

ROCK

Gravity Core / Grab Sample Description

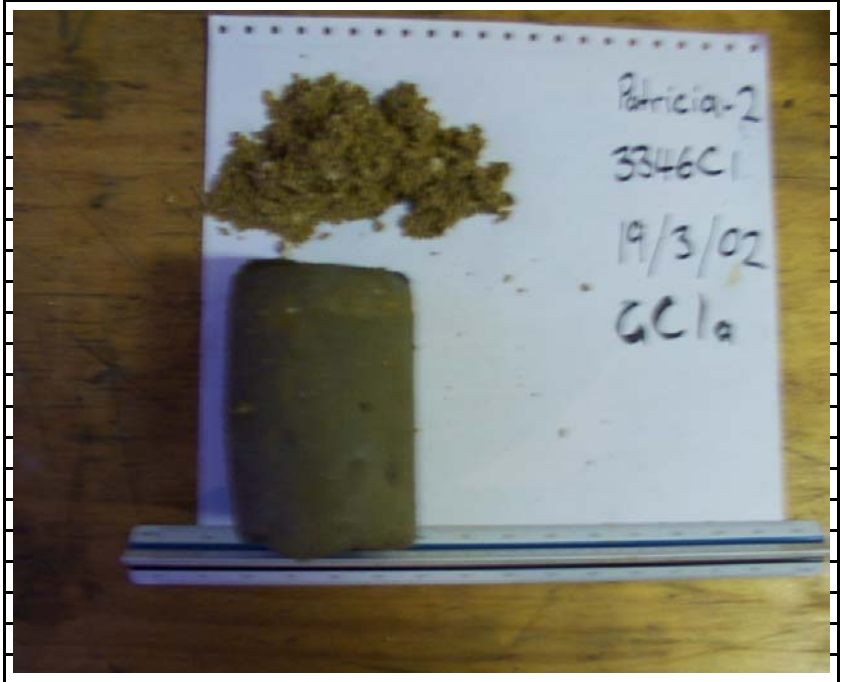
THALES

THALES GEOSOLUTIONS (AUSTRALASIA) LTD

CLIENT: OMV
PROJECT: Patricia-2
JOB No.: 3346C1
VESSEL: Bluefin
LOGGED BY Pat Fournier
POSITION EAST: 627 197.97
POSITION NORTH: 5 790 097.56
RECOVERY (m): 40cm

SAMPLE No.: GC1
WATER DEPTH (mLAT): 52.5
DATE: 19-Mar-02
TIME: 19:20
TYPE OF CORER Gravity corer
BARREL LENGTH (m): 2.0m
CORER WEIGHT: 500kg
CUTTER CONDITION ON RECOVERY:

DEPTH (m)	LITHOLOGY	SAMPLE NUMBER	VISUAL DESCRIPTION	TORVANE (Kn/m^2)	PENETROMETER (Kn/m^2)
0 0.2 0.4		GC1a	Layered firm to stiff clays and loose shelly SAND	85	45



Sample has been described by visual identification. A pocket penetrometer and a Torvane have been used to define the unconfined compressive strength and shear strength respectively, of the soil. The undrained shear strength of the soil is taken as half the unconfined compressive strength.

Note: field identification for strength of cohesive soils (AS 1726 - 1993)

		Undrained shear strength kN/m^2	Undrained shear strength kgf/cm^2
Very soft	Exudes between fingers when squeezed in fist	< 12	< 0.12
Soft	Easily moulded in the fingers	12 to 25	0.12 to 0.25
Firm	Can be moulded in the fingers by strong pressure	25 to 50	0.25 to 0.50
Stiff	Cannot be moulded in the fingers, can be indented by thumb	50 to 100	0.50 to 1.00
Very stiff	Can be indented by thumb nailVery tough	100 to 200	1.00 to 2.00
Hard	Can be indented with difficulty by thumb nail	>200	>2.00

CLAY
silty CLAY
sandy CLAY
silty sandy CLAY
SILT
clayey SILT
sandy SILT
SAND
clayey SAND
silty SAND
clayey silty SAND
sandy GRAVEL
sandy silty GRAVEL
ROCK

Gravity Core / Grab Sample Description

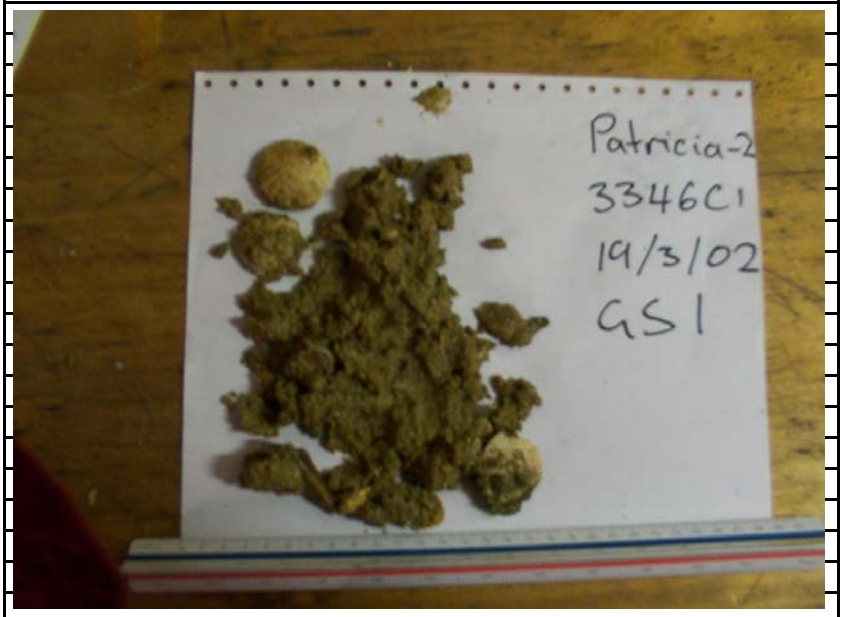
THALES

THALES GEOSOLUTIONS (AUSTRALASIA) LTD

CLIENT: OMV
PROJECT: Patricia-2
JOB No.: 3346C1
VESSEL: Bluefin
LOGGED BY Pat Fournier
POSITION EAST: 626 095.53
POSITION NORTH: 5 790 281.87
RECOVERY (m): Catcher full
CUTTER CONDITION ON RECOVERY:

SAMPLE No.: GS1
WATER DEPTH (mLAT): 52.5
DATE: 19-Mar-02
TIME: 19:40
TYPE OF CORER Van Veen
BARREL LENGTH (m):
CORER WEIGHT:

DEPTH (m)	LITHOLOGY	SAMPLE NUMBER	VISUAL DESCRIPTION	TORVANE (Kn/m^2)	PENETROMETER (Kn/m^2)
		GS1	Loose red/orange coarse SAND, with abundant shell fragments and biologics. Average shell size 4cm x 4cm		



Sample has been described by visual identification. A pocket penetrometer and a Torvane have been used to define the unconfined compressive strength and shear strength respectively, of the soil. The undrained shear strength of the soil is taken as half the unconfined compressive strength.

Note: field identification for strength of cohesive soils (AS 1726 - 1993)

		Undrained shear strength kN/m^2	kgf/cm^2
Very soft	Exudes between fingers when squeezed in fist	< 12	< 0.12
Soft	Easily moulded in the fingers	12 to 25	0.12 to 0.25
Firm	Can be moulded in the fingers by strong pressure	25 to 50	0.25 to 0.50
Stiff	Cannot be moulded in the fingers, can be indented by thumb	50 to 100	0.50 to 1.00
Very stiff	Can be indented by thumb nailVery tough	100 to 200	1.00 to 2.00
Hard	Can be indented with difficulty by thumb nail	>200	>2.00

	CLAY		SILT		SAND		sandy GRAVEL
	silty CLAY		clayey SILT		clayey SAND		sandy silty GRAVEL
	sandy CLAY		sandy SILT		silty SAND		
	silty sandy CLAY				clayey silty SAND		ROCK

Gravity Core / Grab Sample Description

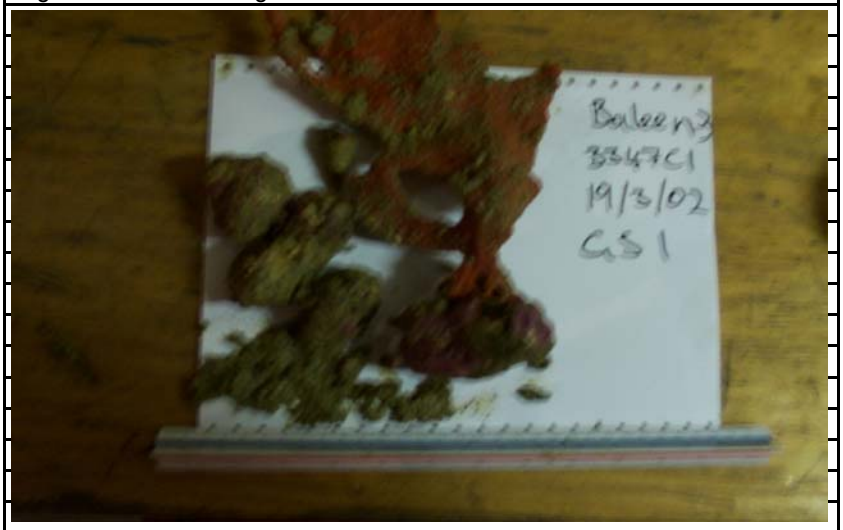
THALES

THALES GEOSOLUTIONS (AUSTRALASIA) LTD

CLIENT: OMV
PROJECT: Baleen
JOB No.: 3347C1
VESSEL: Bluefin
LOGGED BY Pat Fournier
POSITION EAST: 627 451.21
POSITION NORTH: 5 792 364.59
RECOVERY (m):

SAMPLE No.: GS1
WATER DEPTH (mLAT): 52.5
DATE: 19-Mar-02
TIME: 20:36
TYPE OF CORER Van Veen
BARREL LENGTH (m):
CORER WEIGHT:
CUTTER CONDITION ON RECOVERY:

DEPTH (m)	LITHOLOGY	SAMPLE NUMBER	VISUAL DESCRIPTION	TORVANE (Kn/m^2)	PENETROMETER (Kn/m^2)
		GS1	Green/grey medium to coarse SAND with abundant rock and shell fragments and one piece of sponge coral. Average size of rock fragment 5cm x 4cm. Rocks show evidence of early stages of cementation with shell fragments cemented together.		



Sample has been described by visual identification. A pocket penetrometer and a Torvane have been used to define the unconfined compressive strength and shear strength respectively, of the soil. The undrained shear strength of the soil is taken as half the unconfined compressive strength.

Note: field identification for strength of cohesive soils (AS 1726 - 1993)

		Undrained shear strength kN/m^2	kgf/cm^2
Very soft	Exudes between fingers when squeezed in fist	< 12	< 0.12
Soft	Easily moulded in the fingers	12 to 25	0.12 to 0.25
Firm	Can be moulded in the fingers by strong pressure	25 to 50	0.25 to 0.50
Stiff	Cannot be moulded in the fingers, can be indented by thumb	50 to 100	0.50 to 1.00
Very stiff	Can be indented by thumb nailVery tough	100 to 200	1.00 to 2.00
Hard	Can be indented with difficulty by thumb nail	>200	>2.00

CLAY		SILT		SAND		sandy GRAVEL	
silty CLAY		clayey SILT		clayey SAND		sandy silty GRAVEL	
sandy CLAY		sandy SILT		silty SAND			
silty sandy CLAY				clayey silty SAND		ROCK	

Gravity Core / Grab Sample Description

THALES

THALES GEOSOLUTIONS (AUSTRALASIA) LTD

CLIENT: OMV
PROJECT: Baleen
JOB No.: 3347C1
VESSEL: Bluefin
LOGGED BY Pat Fournier
POSITION EAST: 626 681.98
POSITION NORTH: 5 792 553.88
RECOVERY (m):

SAMPLE No.: GS2
WATER DEPTH (mLAT):
DATE: 19-Mar-02
TIME: 20:53
TYPE OF CORER Van Veen
BARREL LENGTH (m):
CORER WEIGHT:
CUTTER CONDITION ON RECOVERY:

DEPTH (m)	LITHOLOGY	SAMPLE NUMBER	VISUAL DESCRIPTION	TORVANE (Kn/m^2)	PENETROMETER (Kn/m^2)
		GS2	Green/grey Fine to coarse silty SAND with abundant shell fragments and minor rock fragments. Average size of rock fragment 5cm x 4cm. Average shell size 5cm x 2cm		

Sample has been described by visual identification. A pocket penetrometer and a Torvane have been used to define the unconfined compressive strength and shear strength respectively, of the soil. The undrained shear strength of the soil is taken as half the unconfined compressive strength.

Note: field identification for strength of cohesive soils (AS 1726 - 1993)

		Undrained shear strength kN/m^2	kgf/cm^2
Very soft	Exudes between fingers when squeezed in fist	< 12	< 0.12
Soft	Easily moulded in the fingers	12 to 25	0.12 to 0.25
Firm	Can be moulded in the fingers by strong pressure	25 to 50	0.25 to 0.50
Stiff	Cannot be moulded in the fingers, can be indented by thumb	50 to 100	0.50 to 1.00
Very stiff	Can be indented by thumb nailVery tough	100 to 200	1.00 to 2.00
Hard	Can be indented with difficulty by thumb nail	>200	>2.00

	CLAY		SILT		SAND		sandy GRAVEL
	silty CLAY		clayey SILT		clayey SAND		sandy silty GRAVEL
	sandy CLAY		sandy SILT		silty SAND		
	silty sandy CLAY				clayey silty SAND		ROCK

APPENDIX L

TIDAL PREDICTIONS

TIDE HEIGHT PREDICTIONS
LOCATION : Baleen-3/Patricia-2
LATITUDE : 38 1 0 S
LONGITUDE : 148 26 57 E
CLIENT : THALES
TIME ZONE : -1000 (EST)
DATUM : LAT (~0.70M < MSL/AHD)
PERIOD : 18/ 3/2002 - 20/3/2002
INTERVAL : 30 MINUTES

HHMM:SS	DD	MM	YYYY	TIDE HEIGHT (M)
0: 0	18	3	2002	1.15
30: 0	18	3	2002	1.10
100: 0	18	3	2002	1.02
130: 0	18	3	2002	0.93
200: 0	18	3	2002	0.82
230: 0	18	3	2002	0.71
300: 0	18	3	2002	0.60
330: 0	18	3	2002	0.51
400: 0	18	3	2002	0.42
430: 0	18	3	2002	0.35
500: 0	18	3	2002	0.31
530: 0	18	3	2002	0.29
600: 0	18	3	2002	0.30
630: 0	18	3	2002	0.33
700: 0	18	3	2002	0.38
730: 0	18	3	2002	0.44
800: 0	18	3	2002	0.52
830: 0	18	3	2002	0.61
900: 0	18	3	2002	0.70
930: 0	18	3	2002	0.78
1000: 0	18	3	2002	0.86
1030: 0	18	3	2002	0.91
1100: 0	18	3	2002	0.95
1130: 0	18	3	2002	0.97
1200: 0	18	3	2002	0.96
1230: 0	18	3	2002	0.94
1300: 0	18	3	2002	0.89
1330: 0	18	3	2002	0.83
1400: 0	18	3	2002	0.75
1430: 0	18	3	2002	0.67
1500: 0	18	3	2002	0.59
1530: 0	18	3	2002	0.51
1600: 0	18	3	2002	0.45
1630: 0	18	3	2002	0.40
1700: 0	18	3	2002	0.37
1730: 0	18	3	2002	0.36
1800: 0	18	3	2002	0.37
1830: 0	18	3	2002	0.41
1900: 0	18	3	2002	0.47
1930: 0	18	3	2002	0.55
2000: 0	18	3	2002	0.64
2030: 0	18	3	2002	0.74
2100: 0	18	3	2002	0.84
2130: 0	18	3	2002	0.94
2200: 0	18	3	2002	1.03
2230: 0	18	3	2002	1.10
2300: 0	18	3	2002	1.16
2330: 0	18	3	2002	1.19
0: 0	19	3	2002	1.20
30: 0	19	3	2002	1.18
100: 0	19	3	2002	1.14

 130: 0 19 3 2002   1.07
 200: 0 19 3 2002   0.99
 230: 0 19 3 2002   0.90
 300: 0 19 3 2002   0.79
 330: 0 19 3 2002   0.68
 400: 0 19 3 2002   0.58
 430: 0 19 3 2002   0.49
 500: 0 19 3 2002   0.41
 530: 0 19 3 2002   0.35
 600: 0 19 3 2002   0.30
 630: 0 19 3 2002   0.29
 700: 0 19 3 2002   0.29
 730: 0 19 3 2002   0.32
 800: 0 19 3 2002   0.36
 830: 0 19 3 2002   0.42
 900: 0 19 3 2002   0.50
 930: 0 19 3 2002   0.57
1000: 0 19 3 2002   0.65
1030: 0 19 3 2002   0.73
1100: 0 19 3 2002   0.79
1130: 0 19 3 2002   0.84
1200: 0 19 3 2002   0.87
1230: 0 19 3 2002   0.89
1300: 0 19 3 2002   0.88
1330: 0 19 3 2002   0.86
1400: 0 19 3 2002   0.82
1430: 0 19 3 2002   0.77
1500: 0 19 3 2002   0.71
1530: 0 19 3 2002   0.65
1600: 0 19 3 2002   0.58
1630: 0 19 3 2002   0.53
1700: 0 19 3 2002   0.48
1730: 0 19 3 2002   0.45
1800: 0 19 3 2002   0.43
1830: 0 19 3 2002   0.43
1900: 0 19 3 2002   0.46
1930: 0 19 3 2002   0.50
2000: 0 19 3 2002   0.56
2030: 0 19 3 2002   0.64
2100: 0 19 3 2002   0.72
2130: 0 19 3 2002   0.81
2200: 0 19 3 2002   0.91
2230: 0 19 3 2002   0.99
2300: 0 19 3 2002   1.07
2330: 0 19 3 2002   1.13
   0: 0 20 3 2002   1.18
  30: 0 20 3 2002   1.20
 100: 0 20 3 2002   1.20
 130: 0 20 3 2002   1.17
 200: 0 20 3 2002   1.13
 230: 0 20 3 2002   1.06
 300: 0 20 3 2002   0.97
 330: 0 20 3 2002   0.88
 400: 0 20 3 2002   0.78
 430: 0 20 3 2002   0.67
 500: 0 20 3 2002   0.57
 530: 0 20 3 2002   0.48
 600: 0 20 3 2002   0.40
 630: 0 20 3 2002   0.34
 700: 0 20 3 2002   0.30
 730: 0 20 3 2002   0.27

```
 800: 0 20  3 2002     0.28
 830: 0 20  3 2002     0.30
 900: 0 20  3 2002     0.33
 930: 0 20  3 2002     0.39
1000: 0 20  3 2002     0.45
1030: 0 20  3 2002     0.52
1100: 0 20  3 2002     0.59
1130: 0 20  3 2002     0.66
1200: 0 20  3 2002     0.72
1230: 0 20  3 2002     0.77
1300: 0 20  3 2002     0.81
1330: 0 20  3 2002     0.83
1400: 0 20  3 2002     0.83
1430: 0 20  3 2002     0.82
1500: 0 20  3 2002     0.79
1530: 0 20  3 2002     0.75
1600: 0 20  3 2002     0.71
1630: 0 20  3 2002     0.66
1700: 0 20  3 2002     0.61
1730: 0 20  3 2002     0.56
1800: 0 20  3 2002     0.53
1830: 0 20  3 2002     0.50
1900: 0 20  3 2002     0.49
1930: 0 20  3 2002     0.50
2000: 0 20  3 2002     0.53
2030: 0 20  3 2002     0.57
2100: 0 20  3 2002     0.63
2130: 0 20  3 2002     0.70
2200: 0 20  3 2002     0.78
2230: 0 20  3 2002     0.86
2300: 0 20  3 2002     0.95
2330: 0 20  3 2002     1.03
```

APPENDIX M

DAILY FIELD PROGRESS REPORT SHEETS

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date:15 March 2002 Client: OMV Job No.: 3346C1 Vessel: Blue Fin Location: Bass Strait

Equipment	Op	
SkyFix	Mob	
SkyFix Spot	Mob	
Gyro	Mob	
GNS 2	Mob	
MultiFix 3	Mob	
GRREP	Mob	

Equipment	Op	
Echo Sounder	Mob	
Sidescan	Mob	
Boomer	Mob	
Heave Comp	Mob	
Velocity Probe	Mob	
ENSIN/CODA	Mob	

Racal Personnel
EC Shuttleworth
M.Dybala
J Antao
L.Ethridge
P Fournier
Client Personnel
R Glanville

WX	Sea State	Swell	Wind Dir.
0000			
0600			
1200			
1800			

DIARY OF OPERATIONS

TIME	Time Zone=UTC+11
0800	Thales personnel at vessel. Project Briefing & vessel induction
0830	Truck, crane, welders & labour commence work.
1115	All equipment loaded to vessel
1300	Gyros powered up.
1545	Crane, welders & labour complete work
1600	Power failure.
1630	Power return
2000	Thales personnel depart vessel for night.

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	:Operations Department
YELLOW	: Clients Representative

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date:16 March 2002 Client: OMV Job No.: 3346C1 Vessel: Blue Fin Location: Bass Strait

Equipment	Op	
SkyFix	Y	
SkyFix Spot	Y	
Gyro	Y	
GNS 2	Y	
MultiFix 3	Y	
GRREP	Y	

Equipment	Op	
Echo Sounder	Y	
Sidescan	Y	
Boomer	Y	
Heave Comp	Y	
Velocity Probe	Y	
ENSIN/CODA	Y	

Racal Personnel
EC Shuttleworth
M.Dybala
J Antao
L.Ethridge
P Fournier
Client Personnel
R Glanville

WX	Sea State	Swell	Wind Dir.
0000			
0600			
1200			
1800			

DIARY OF OPERATIONS

TIME	Time Zone=UTC+11
0700	Thales personnel at vessel.
0800	Boomer in water
1000	SSS rub & wet test
1100	ES deployed. Deso 15 problem.
1200	DGPS Health check & gyro calibration complete.
1300	ES operational
1345	ES bar check complete.
1430	Spare magnetometer arrive.
1515	Power failure.
1530	Power back. Reboot equipment
1600	Magnetometer operational
1730	Fire & Abandonment drill
1800	Depart Beauty Point.
2400	Transit to Patricia

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	:Operations Department
YELLOW	: Clients Representative

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date:17 March 2002 Client: OMV Job No.: 3346C1 Vessel: Blue Fin Location: Bass Strait

Equipment	Op	
SkyFix	Y	
SkyFix Spot	Y	
Gyro	Y	
GNS 2	Y	
MultiFix 3	Y	
GRREP	Y	

Equipment	Op	
Echo Sounder	Y	
Sidescan	Y	
Boomer	Y	
Heave Comp	Y	
Velocity Probe	Y	
ENSIN/CODA	Y	

Racal Personnel
EC Shuttleworth
M.Dybala
J Antao
L.Ethridge
P Fournier
Client Personnel
R Glanville

WX	Sea State	Swell	Wind Dir.
0000	6	2m	NW
0600	6	2m	SW
1200	6	2m	SW
1800	3/4	2m	SW

DIARY OF OPERATIONS

TIME	Time Zone=UTC+11
0000	Transit to Patricia
1100	DMS2-05 reset itself to 1200 baud rate. Reset GNS2 & Deso 15 to same.
1845	Drop anchor at Patricia site. Wx standby. Wind dec., seas 2m+
2100	SVP check during wx dt. 1515.7 m/s
2400	Standby for wx on Patricia 2 site

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	:Operations Department
YELLOW	: Clients Representative

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date:18 March 2002 Client: OMV Job No.: 3346C1 Vessel: Blue Fin Location: Bass Strait

Equipment	Op	
SkyFix	Y	
SkyFix Spot	Y	
Gyro	Y	
GNS 2	Y	
MultiFix 3	Y	
GRREP	Y	

Equipment	Op	
Echo Sounder	Y	
Sidescan	Y	
Boomer	Y	
Heave Comp	Y	
Velocity Probe	Y	
ENSIN/CODA	Y	

Racal Personnel
EC Shuttleworth
M.Dybala
J Antao
L.Ethridge
P Fournier
Client Personnel
R Glanville

WX	Sea State	Swell	Wind Dir.
0000	3/4	2m	SW
0600	3/4	1m	NW
1200	3	<1m	NE
1800	3	<1m	NE

DIARY OF OPERATIONS

TIME	Time Zone=UTC+ 11
0000	Standby for wx on Patricia 2 site
0400	Deploy and tune E/S. No heave into E/S as causes loss of soundings. Heave applied in GNS.
0520	Recover anchor.
0530	Deploy SSS. Tuning SSS.
0639	Start SSS dynamic check Patricia 2.
0715	End of dynamic check.
0730	Deploy hydrophone. Tuning boomer.
1030	Commence run-in to line PP1.
1043	Commenced SSS, ES & Boomer on Patricia 2 site.
2119	Analogue acquisition completed at Patricia 2.
2148	Commence analogue acquisition at Baleen 3 site.
2400	Continue on Baleen 3 site.

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	:Operations Department
YELLOW	: Clients Representative

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date:19 March 2002 Client: OMV Job No.: 3347C1 Vessel: Blue Fin Location: Bass Strait

Equipment	Op	
SkyFix	Y	
SkyFix Spot	Y	
Gyro	Y	
GNS 2	Y	
MultiFix 3	Y	
GRREP	Y	

Equipment	Op	
Echo Sounder	Y	
Sidescan	Y	
Boomer	Y	
Heave Comp	Y	
Velocity Probe	Y	
ENSIN/CODA	Y	

Racal Personnel
EC Shuttleworth
M.Dybala
J Antao
L.Ethridge
P Fournier
Client Personnel
R Glanville

WX	Sea State	Swell	Wind Dir.
0000	4	1-2m	SW
0600	3	1-2m	SW
1200	3	1-2m	SW
1800			

DIARY OF OPERATIONS

TIME	Time Zone=UTC+ 11
0000	Continue on Baleen 3 site.
1233	Analogue acquisition complete on Baleen 3. Recover SSS & Boomer, deploy magnetometer.
1315	Magnetometer deployed.
1353	Commence magnetometer checks on wellheads.
1800	Magnetometer recovered. Rig for coring.
1845	JSA/Toolbox for coring.
1902	Gravity core attempt on Patricia 2. Fail.
1920	Gravity core attempt on Patricia 2. Sample.
1940	Grab Sample 1 (Patricia site.)
2007	Grab Sample 2 (Patricia site.)
2036	Grab Sample 3 (Baleen site.)
2053	Grab Sample on Baleen 3 site. Derig corer, hd for pipe route ridge.
2200	SSS deployed. Commence ridge examination

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR/ENGINEER

WHITE : Accounts Department
BLUE :Operations Department
YELLOW : Clients Representative

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date:20 March 2002 Client: OMV Job No.: 3347C1 Vessel: Blue Fin Location: Bass Strait

Equipment	Op	
SkyFix	Y	
SkyFix Spot	Y	
Gyro	Y	
GNS 2	Y	
MultiFix 3	Y	
GRREP	Y	

Equipment	Op	
Echo Sounder	Y	
Sidescan	Y	
Boomer	Y	
Heave Comp	Y	
Velocity Probe	Y	
ENSIN/CODA	Y	

Racal Personnel
EC Shuttleworth
M.Dybala
J Antao
L.Ethridge
P Fournier
Client Personnel
R Glanville

WX	Sea State	Swell	Wind Dir.
0000	3	1	NW
0600	3	1	NW
1200	5/6	2m+	SW
1800			

DIARY OF OPERATIONS

TIME	Time Zone=UTC+ 11
0000	Continue on ridge survey.
0014	Complete ridge survey. Deploy Boomer for route development
0115	Commenced pipe route development.
0617	Pipe route completed.
0654	Commence scout line to 15m contour.
0828	Scout line complete. Start recovering spread.
0900	Commence transit to Sole-2 site.
1100	Divert to shelter off Gabo Island. Wind SW'ly, force 6, seas 2m+. F'cast W/SW 30 – 40 kn.
1700	Drop anchor in lee of Gabo Island.

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR/ENGINEER

WHITE : Accounts Department
BLUE :Operations Department
YELLOW : Clients Representative

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date:21 March 2002 Client: OMV Job No.: 3349C1 Vessel: Blue Fin Location: Bass Strait

Equipment	Op	
SkyFix	Y	
SkyFix Spot	Y	
Gyro	Y	
GNS 2	Y	
MultiFix 3	Y	
GRREP	Y	

Equipment	Op	
Echo Sounder	Y	
Sidescan	Y	
Boomer	Y	
Heave Comp	Y	
Velocity Probe	Y	
ENSIN/CODA	Y	

Racal Personnel
EC Shuttleworth
M.Dybala
J Antao
L.Ethridge
P Fournier
Client Personnel
R Glanville

WX	Sea State	Swell	Wind Dir.
0000			
0600			
1200			
1800			

DIARY OF OPERATIONS

TIME	Time Zone=UTC+ 11
0000	At anchor in lee of Gabo Island.
1300	Deployed Sub-tow boomer for testing. Deployed ES pole to check HeCo.
1700	Recovered all equipment.
2400	Commence recover anchor.

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	:Operations Department
YELLOW	: Clients Representative

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date:22 March 2002 Client: OMV Job No.: 3349C1 Vessel: Blue Fin Location: Bass Strait

Equipment	Op	
SkyFix	Y	
SkyFix Spot	Y	
Gyro	Y	
GNS 2	Y	
MultiFix 3	Y	
GRREP	Y	

Equipment	Op	
Echo Sounder	Y	
Sidescan	Y	
Boomer	Y	
Heave Comp	Y	
Velocity Probe	Y	
ENSIN/CODA	Y	

Racal Personnel
EC Shuttleworth
M.Dybala
J Antao
L.Ethridge
P Fournier
Client Personnel
R Glanville

WX	Sea State	Swell	Wind Dir.
0000		na	
0600	4	2m	SW
1200	3	1m	E
1800	5	1-2m	E

DIARY OF OPERATIONS

TIME	Time Zone=UTC+ 11
0000	Enroute to Sole-2 site..
0800	Arrive Sole-2 site. Deploy E/S pole.
0815	Deploy SVP probe. SV = 1517.8m/s.
0840	Deploy boomer and SSS.
0900	Deploy hydrophone. Start tuning gear.
0930	Heading for SOL
0956	Commenced analogue acquisition on Sole 2 site.
1700	Shooting from west to east, into prevailing seas, due to excess noise on boomer data.
1800	Return to shooting both directions.
2400	Continue on Sole 2 site survey.

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Signature _____
SURVEYOR/ENGINEER

WHITE : Accounts Department
BLUE :Operations Department
YELLOW : Clients Representative

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date:23 March 2002 Client: OMV Job No.: 3349C1 Vessel: Blue Fin Location: Bass Strait

Equipment	Op	
SkyFix	Y	
SkyFix Spot	Y	
Gyro	Y	
GNS 2	Y	
MultiFix 3	Y	
GRREP	Y	

Equipment	Op	
Echo Sounder	Y	
Sidescan	Y	
Boomer	Y	
Heave Comp	Y	
Velocity Probe	Y	
ENSIN/CODA	Y	

Racal Personnel
EC Shuttleworth
M.Dybala
J Antao
L.Ethridge
P Fournier
Client Personnel
R Glanville

WX	Sea State	Swell	Wind Dir.
0000	5	1-2m	E
0600	4	1-2m	NE
1200	3	1m	NE
1800	4	1-2m	NE

DIARY OF OPERATIONS

TIME	Time Zone=UTC+ 11
0000	Continue analogue acquisition on Sole 2 site.
1140	Complete analogue on Sole 2 site. Recover gear, deploy magnetometer.
1240	Magnetometer deployed, hdg wellhd.
1800	Magnetometer recovered. Preparing corer.
1910	Core S1 on Sole 2 site
1934	Core S2 On Sole 2 site
2000	Corer de-rigged. Analogue gear deployed. Hdg for line.
2041	Commenced scout line from Sole to meet scout line running north from Patricia Baleen,

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR/ENGINEER

WHITE : Accounts Department
BLUE :Operations Department
YELLOW : Clients Representative

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED
DAILY RECORD SHEET

Date:24 March 2002 Client: OMV Job No.: 3349C1 Vessel: Blue Fin Location: Bass Strait

Equipment	Op	
SkyFix	Y	
SkyFix Spot	Y	
Gyro	Y	
GNS 2	Y	
MultiFix 3	Y	
GRREP	Y	

Equipment	Op	
Echo Sounder	Y	
Sidescan	Y	
Boomer	Y	
Heave Comp	Y	
Velocity Probe	Y	
ENSIN/CODA	Y	

Racal Personnel
EC Shuttleworth
M.Dybala
J Antao
L.Ethridge
P Fournier
Client Personnel
R Glanville

WX	Sea State	Swell	Wind Dir.
0000	5	1-2m	E
0600	4	1-2m	NE
1200	3	1m	NE
1800	4	1-2m	NE

DIARY OF OPERATIONS

TIME	Time Zone=UTC+ 11
0000	Continue analogue acquisition on scout line from Sole-2 to Patricia/Baleen pipe route.
0330	Finish scout line. Recover survey spread.
0400	Commence transit to Port Welshpool.

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR/ENGINEER

WHITE : Accounts Department
BLUE :Operations Department
YELLOW : Clients Representative

Signature _____
CLIENT REPRESENTATIVE

THALES

DAILY PROJECT REPORT

ALL TIMES ARE WST

VESSEL:	*Blue Fin*	PROJECT No.:	*3346C1*	REPORT No.:	*1*	DATE:	*15 March 2002*
To:	TGA Perth	Attn:	Operations - N. Mackay				Fax 08 9344 8783
To	OMV Australia Pty Ltd	Attn:	Ron King			Via:	TGA Perth
Copy:	TGGL Compass House	Attn:	Audrey Maysh			Via:	TGA Perth

AA. LOCATION AT 2359 hrs:
Beauty Point, Tasmania

BB. WEATHER:
Na

CC. OPERATIONAL DATA:

C2. PERSONNEL

	Racal	Sub-Cont	Client	Vessel	Today	Total Project To Date
No. of Persons	4	0	1	0	5	5
Man-Hours	96	0	24	0	120	120
No. On Today	4	0	1	4	9	9
No. Off Today	0	0	0	0	0	0

C3. SURVEY PROGRESS

Area of Activity	Percent Complete (at end of today)
Mobilisation	60
Patricia 2	0
Baleen 3	0
Pipe route	0
Sole 2	0
Demobilisation	0

C4. RE RUNS TODAY

C5. SUMMARY OF CHARGEABLE TIME

	Today (hours)				Total (hours)			
	Working	Transit	Downtime	Weather	Working	Transit	Downtime	Weather
Patricia 2	0	0	0	0	0	0	0	0
Baleen 3								
Pipe route								
Sole 2								

DD. HSE REPORT:

	Today	To Date
TOTAL HAZARDS/INCIDENTS REPORTED:	0	0
TOTAL MINOR INJURIES:	0	0
TOTAL LTI:	0	0
DETAILS OF INCIDENTS AND DRILLS TODAY:	Vessel Induction and Pre-MOB Safety Meeting	

EE. EVENT DIARY TODAY (all times WST)

From	To	Activity	Code	Hours
0000	*0800*	*Wait on equipment*	*MOB/DEMO*	*8*
0800	*2000*	*Mobilisation*	*MOB/DEMO*	*12*
2000	*2400*	*Standby*	*MOB/DEMO*	*4*

FF. TIME SUMMARY:

Rate	Code	Hours	Acc. Hours
Standby and/or Weather	*STBY*	*0*	*0*
Disputed Time	*DT*	*0*	*0*
Transit	*TR*	*0*	*0*
Downtime	*TD*	*0*	*0*
Working	*OP*	*0*	*0*
Mobilisation / Demobilisation	*MOB/DEMO*	*24*	*24*
Breakdown (Vessel)	*VD/STBY*	*0*	*0*
Other Nil Revenue Time	*CT*	*0*	*0*
	TOTAL	*24*	*24*

GG. EXPECTED WEATHER FOR NEXT 24 HOURS:
Na

HH. TECHNICAL & PARTY CHIEF'S COMMENTS:
Mob progressing satisfactorily.

II. CLIENT REPRESENTATIVE'S COMMENTS:
Nil

JJ. PROGRAMME FOR NEXT 24 HOURS:
Continue Mobilisation and Equipment testing. Expect to depart 1800 hrs.

Signed for Thales GeoSolutions

Chris Shuttleworth
(Party Chief)

Signed for OMV Australia Pty Ltd

Rick Glanville
(Client Representative)

THALES

DAILY PROJECT REPORT

ALL TIMES ARE WST

VESSEL:	*Blue Fin*	PROJECT No.:	*3346C1*	REPORT No.:	*2*	DATE:	*16 March 2002*
To:	TGA Perth	Attn:	Operations - N. Mackay				Fax 08 9344 8783
To	OMV Australia Pty Ltd	Attn:	Ron King			Via:	TGA Perth
Copy:	TGGL Compass House	Attn:	Audrey Maysh			Via:	TGA Perth

AA. LOCATION AT 2359 hrs:
40° 58" S, 146° 46" E

BB. WEATHER:
NW 30 kn, 2m seas

CC. OPERATIONAL DATA:

C2. PERSONNEL

	Racal	Sub-Cont	Client	Vessel	Today	Total Project To Date
No. of Persons	5	0	1	5	11	16
Man-Hours	120	0	24	120	262	382
No. On Today	1	0	0	1	2	11
No. Off Today	0	0	0	0	0	0

C3. SURVEY PROGRESS

Area of Activity	Percent Complete (at end of today)
Mobilisation	100
Patricia 2	0
Baleen 3	0
Pipe route	0
Sole 2	0
Demobilisation	0

C4. RE RUNS TODAY

C5. SUMMARY OF CHARGEABLE TIME

	Today (hours)				Total (hours)			
	Working	Transit	Downtime	Weather	Working	Transit	Downtime	Weather
Patricia 2	0	6	0	0	0	6	0	0
Baleen 3								
Pipe route								
Sole 2								

DD. HSE REPORT:

	Today	To Date
TOTAL HAZARDS/INCIDENTS REPORTED:	0	0
TOTAL MINOR INJURIES:	0	0
TOTAL LTI:	0	0
DETAILS OF INCIDENTS AND DRILLS TODAY:	Fire & Abandon Boat Drill	

EE. EVENT DIARY TODAY (all times WST)

From	To	Activity	Code	Hours
0000	*0700*	*Standby*	*MOB/DEMO*	*7*
0700	*1800*	*Mobilisation*	*MOB/DEMO*	*11*
1800	*2400*	*Transit. Depart Beauty Point*	*TR*	*6*

FF. TIME SUMMARY:

Rate	Code	Hours	Acc. Hours
Standby and/or Weather	*STBY*	*0*	*0*
Disputed Time	*DT*	*0*	*0*
Transit	*TR*	*6*	*6*
Downtime	*TD*	*0*	*0*
Working	*OP*	*0*	*0*
Mobilisation / Demobilisation	*MOB/DEMO*	*18*	*42*
Breakdown (Vessel)	*VD/STBY*	*0*	*0*
Other Nil Revenue Time	*CT*	*0*	*0*
	TOTAL	*24*	*48*

GG. EXPECTED WEATHER FOR NEXT 24 HOURS:
NW 20-30 kn, back SW 20-30 kn, then moderating

HH. TECHNICAL & PARTY CHIEF'S COMMENTS:
Mob completed.

II. CLIENT REPRESENTATIVE'S COMMENTS:
Nil

JJ. PROGRAMME FOR NEXT 24 HOURS:
Transit to Patricia. ETA 1400 hrs 17/03/02. Commence proof of wellheads. Acquisition.

Signed for Thales GeoSolutions

Chris Shuttleworth
(Party Chief)

Signed for OMV Australia Pty Ltd

Rick Glanville
(Client Representative)

THALES

DAILY PROJECT REPORT

ALL TIMES ARE WST

VESSEL:	*Blue Fin*	PROJECT No.:	*3346C1*	REPORT No.:	*3*	DATE:	*17 March 2002*
To:	TGA Perth	Attn:	Operations - N. Mackay				Fax 08 9344 8783
To	OMV Australia Pty Ltd	Attn:	Ron King			Via:	TGA Perth
Copy:	TGGL Compass House	Attn:	Audrey Maysh			Via:	TGA Perth

AA. LOCATION AT 2359 hrs:
At anchor on Patricia 2 site

BB. WEATHER:
SW 15 kn, 2m seas

CC. OPERATIONAL DATA:

C2. PERSONNEL

	Racal	Sub-Cont	Client	Vessel	Today	Total Project To Date
No. of Persons	5	0	1	5	11	27
Man-Hours	120	0	24	120	262	644
No. On Today	0	0	0	0	0	11
No. Off Today	0	0	0	0	0	0

C3. SURVEY PROGRESS

Area of Activity	Percent Complete (at end of today)
Mobilisation	100
Patricia 2	0
Baleen 3	0
Pipe route	0
Sole 2	0
Demobilisation	0

C4. RE RUNS TODAY

C5. SUMMARY OF CHARGEABLE TIME

	Today (hours)				Total (hours)			
	Working	Transit	Downtime	Weather	Working	Transit	Downtime	Weather
Patricia 2	0	18.75	0	5.25	0	24.75	0	5.25
Baleen 3								
Pipe route								
Sole 2								

DD. HSE REPORT:

	Today	To Date
TOTAL HAZARDS/INCIDENTS REPORTED:	0	0
TOTAL MINOR INJURIES:	0	0
TOTAL LTI:	0	0
DETAILS OF INCIDENTS AND DRILLS TODAY:	0	

EE. EVENT DIARY TODAY (all times WST)

From	To	Activity	Code	Hours
0000	*1845*	*Transit*	*TR*	*18.75*
1845	*2400*	*Standby at anchor, Patricia 2 site*	*STBY*	*5.25*

FF. TIME SUMMARY:

Rate	Code	Hours	Acc. Hours
Standby and/or Weather	*STBY*	*5.25*	*5.25*
Disputed Time	*DT*	*0*	*0*
Transit	*TR*	*18.75*	*24.75*
Downtime	*TD*	*0*	*0*
Working	*OP*	*0*	*0*
Mobilisation / Demobilisation	*MOB/DEMO*	*18*	*42*
Breakdown (Vessel)	*VD/STBY*	*0*	*0*
Other Nil Revenue Time	*CT*	*0*	*0*
	TOTAL	*24*	*72*

GG. EXPECTED WEATHER FOR NEXT 24 HOURS:
SW back NW inc 20-30 kn. Seas dec to 1m then inc again.

HH. TECHNICAL & PARTY CHIEF'S COMMENTS:
Expect seas to remain low when wind is NW from off the land. Geko Beta 30m south of sites.

II. CLIENT REPRESENTATIVE'S COMMENTS:
Nil

JJ. PROGRAMME FOR NEXT 24 HOURS:
SSS dynamic position on Patricia 1 wellhead. Commence acquisition Patricia 2.

Signed for Thales GeoSolutions

Chris Shuttleworth
(Party Chief)

Signed for OMV Australia Pty Ltd

Rick Glanville
(Client Representative)

THALES

DAILY PROJECT REPORT

ALL TIMES ARE WST

VESSEL:	*Blue Fin*	PROJECT No.:	*3346C1 3347C1*	REPORT No.:	*4*	DATE:	*18 March 2002*
To:	TGA Perth	Attn:	Operations - N. Mackay				Fax 08 9344 8783
To	OMV Australia Pty Ltd	Attn:	Ron King			Via:	TGA Perth
Copy:	TGGL Compass House	Attn:	Audrey Maysh			Via:	TGA Perth

AA. LOCATION AT 2359 hrs:
On Baleen 3 site

BB. WEATHER:
SW 15 kn, 1m seas

CC. OPERATIONAL DATA:

C2. PERSONNEL

	Racal	Sub-Cont	Client	Vessel	Today	Total Project To Date
No. of Persons	5	0	1	5	11	38
Man-Hours	120	0	24	120	262	906
No. On Today	0	0	0	0	0	0
No. Off Today	0	0	0	0	0	0

C3. SURVEY PROGRESS

Area of Activity	Percent Complete (at end of today)
Mobilisation	100
Patricia 2	90
Baleen 3	10
Pipe route	0
Sole 2	0
Demobilisation	0

C4. RE RUNS TODAY

C5. SUMMARY OF CHARGEABLE TIME

	Today (hours)				Total (hours)			
	Working	Transit	Downtime	Weather	Working	Transit	Downtime	Weather
Patricia 2	18.5	O	0	5.5	18.5	24.75	0	10.75
Baleen 3								
Pipe route								
Sole 2								

DD. HSE REPORT:

	Today	To Date
TOTAL HAZARDS/INCIDENTS REPORTED:	0	0
TOTAL MINOR INJURIES:	0	0
TOTAL LTI:	0	0
DETAILS OF INCIDENTS AND DRILLS TODAY:	0	

EE. EVENT DIARY TODAY (all times WST)

From	To	Activity	Code	Hours
0000	*0530*	*Standby at anchor on Patricia site.*	*STBY*	*5.5*
0530	*2130*	*Analogue acquisition on Patricia 2 site*	*OP*	*16*
2130	*2400*	*Analogue acquisition on Baleen 3 site*	*OP*	*2.5*

FF. TIME SUMMARY:

Rate	Code	Hours	Acc. Hours
Standby and/or Weather	*STBY*	*5.5*	*10.75*
Disputed Time	*DT*	*0*	*0*
Transit	*TR*	*0*	*24.75*
Downtime	*TD*	*0*	*0*
Working	*OP*	*18.5*	*18.5*
Mobilisation / Demobilisation	*MOB/DEMO*	*0*	*42*
Breakdown (Vessel)	*VD/STBY*	*0*	*0*
Other Nil Revenue Time	*CT*	*0*	*0*
	TOTAL	*24*	*96*

GG. EXPECTED WEATHER FOR NEXT 24 HOURS:
W/SW 20-30 kn, seas 2-4m, dec 10-20 kn, seas 1-2m

HH. TECHNICAL & PARTY CHIEF'S COMMENTS:
Patricia 2 site completed excepting coring. No heave on Deso 15 ES, but applied in GNS.

II. CLIENT REPRESENTATIVE'S COMMENTS:
Nil

JJ. PROGRAMME FOR NEXT 24 HOURS:
Continue Baleen 3 analogue acquisition, then magnetometer over wellheads, then coring.

Signed for Thales GeoSolutions

Chris Shuttleworth
(Party Chief)

Signed for OMV Australia Pty Ltd

Rick Glanville
(Client Representative)

THALES

DAILY PROJECT REPORT

ALL TIMES ARE WST

VESSEL:	*Blue Fin*	PROJECT No.:	*3347C1*	REPORT No.:	*5*	DATE:	*19 March 2002*
To:	TGA Perth	Attn:	Operations - N. Mackay				Fax 08 9344 8783
To	OMV Australia Pty Ltd	Attn:	Ron King			Via:	TGA Perth
Copy:	TGGL Compass House	Attn:	Audrey Maysh			Via:	TGA Perth

AA. LOCATION AT 2359 hrs:
On pipe route, 37 56 S 148 26 E

BB. WEATHER:
SW 15 kn, 1m seas

CC. OPERATIONAL DATA:

C2. PERSONNEL

	Racal	Sub-Cont	Client	Vessel	Today	Total Project To Date
No. of Persons	5	0	1	5	11	49
Man-Hours	120	0	24	120	262	1168
No. On Today	0	0	0	0	0	0
No. Off Today	0	0	0	0	0	0

C3. SURVEY PROGRESS

Area of Activity	Percent Complete (at end of today)
Mobilisation	100
Patricia 2	100
Baleen 3	100
Pipe route	10
Sole 2	0
Demobilisation	0

C4. RE RUNS TODAY

C5. SUMMARY OF CHARGEABLE TIME

	Today (hours)				Total (hours)			
	Working	Transit	Downtime	Weather	Working	Transit	Downtime	Weather
Patricia 2	24	O	0	0	42.5	24.75	0	10.75
Baleen 3								
Pipe route								
Sole 2								

DD. HSE REPORT:

	Today	To Date
TOTAL HAZARDS/INCIDENTS REPORTED:	0	0
TOTAL MINOR INJURIES:	0	0
TOTAL LTI:	0	0
DETAILS OF INCIDENTS AND DRILLS TODAY:	0	

EE. EVENT DIARY TODAY (all times WST)

From	To	Activity	Code	Hours
0000	*1230*	*Analogue acquisition on Baleen 3*	*OP*	*12.5*
1230	*1800*	*Magnetometer check on wellheads*		*5.5*
1800	*2130*	*Core & grab samples, Patricia & Baleen*		*3.5*
2130	*2400*	*Pipe route development*		*2.5*

FF. TIME SUMMARY:

Rate	Code	Hours	Acc. Hours
Standby and/or Weather	*STBY*	*0*	*10.75*
Disputed Time	*DT*	*0*	*0*
Transit	*TR*	*0*	*24.75*
Downtime	*TD*	*0*	*0*
Working	*OP*	*24*	*42.5*
Mobilisation / Demobilisation	*MOB/DEMO*	*0*	*42*
Breakdown (Vessel)	*VD/STBY*	*0*	*0*
Other Nil Revenue Time	*CT*	*0*	*0*
	TOTAL	*24*	*120*

GG. EXPECTED WEATHER FOR NEXT 24 HOURS:
NW inc 25-35 kn, back W/SW inc 30-40 kn.

HH. TECHNICAL & PARTY CHIEF'S COMMENTS:
Patricia 2 & Baleen 3 sites complete.

II. CLIENT REPRESENTATIVE'S COMMENTS:
Nil

JJ. PROGRAMME FOR NEXT 24 HOURS:
Complete pipe route development, transit & commence on Sole, weather permitting.

Signed for Thales GeoSolutions

Chris Shuttleworth
(Party Chief)

Signed for OMV Australia Pty Ltd

Rick Glanville
(Client Representative)

THALES

DAILY PROJECT REPORT

ALL TIMES ARE WST

VESSEL:	*Blue Fin*	PROJECT No.:	*3348C1 3349C1*	REPORT No.:	*6*	DATE:	*20 March 2002*
To:	TGA Perth	Attn:	Operations - N. Mackay				Fax 08 9344 8783
To	OMV Australia Pty Ltd	Attn:	Ron King			Via:	TGA Perth
Copy:	TGGL Compass House	Attn:	Audrey Maysh			Via:	TGA Perth

AA. LOCATION AT 2359 hrs:
At anchor, lee of Gabo Isl., 37 33, S. 149 55, E

BB. WEATHER:
SW 35 kn.

CC. OPERATIONAL DATA:

C2. PERSONNEL

	Racal	Sub-Cont	Client	Vessel	Today	Total Project To Date
No. of Persons	5	0	1	5	11	60
Man-Hours	120	0	24	120	262	1430
No. On Today	0	0	0	0	0	0
No. Off Today	0	0	0	0	0	0

C3. SURVEY PROGRESS

Area of Activity	Percent Complete (at end of today)
Mobilisation	100
Patricia 2	100
Baleen 3	100
Pipe route	100
Sole 2	0
Demobilisation	0

C4. RE RUNS TODAY

C5. SUMMARY OF CHARGEABLE TIME

	Today (hours)				Total (hours)			
	Working	Transit	Downtime	Weather	Working	Transit	Downtime	Weather
Patricia 2	9	2	0	13	51.5	26.75	0	23.75
Baleen 3								
Pipe route								
Sole 2								

DD. HSE REPORT:

	Today	To Date
TOTAL HAZARDS/INCIDENTS REPORTED:	0	0
TOTAL MINOR INJURIES:	0	0
TOTAL LTI:	0	0
DETAILS OF INCIDENTS AND DRILLS TODAY:	0	

EE. EVENT DIARY TODAY (all times WST)

From	To	Activity	Code	Hours
0000	*0900*	*Pipe route development*	*OP*	*9*
0900	*1100*	*Transit to Sole*	*TR*	*2*
1100	*1700*	*Divert to Gabo Isl*	*STBY*	*6*
1700	*2400*	*At anchor in lee of Gabo Island*	*STBY*	*7*

FF. TIME SUMMARY:

Rate	Code	Hours	Acc. Hours
Standby and/or Weather	*STBY*	*13*	*23.75*
Disputed Time	*DT*	*0*	*0*
Transit	*TR*	*2*	*26.75*
Downtime	*TD*	*0*	*0*
Working	*OP*	*9*	*51.5*
Mobilisation / Demobilisation	*MOB/DEMO*	*0*	*42*
Breakdown (Vessel)	*VD/STBY*	*0*	*0*
Other Nil Revenue Time	*CT*	*0*	*0*
	TOTAL	*24*	*120*

GG. EXPECTED WEATHER FOR NEXT 24 HOURS:
Continue SW 30 kn

HH. TECHNICAL & PARTY CHIEF'S COMMENTS:
Pipe route development completed.

II. CLIENT REPRESENTATIVE'S COMMENTS:
Nil

JJ. PROGRAMME FOR NEXT 24 HOURS:
Commence on Sole, weather permitting.

Signed for Thales GeoSolutions

Chris Shuttleworth
(Party Chief)

Signed for OMV Australia Pty Ltd

Rick Glanville
(Client Representative)

THALES

DAILY PROJECT REPORT

ALL TIMES ARE WST

VESSEL:	*Blue Fin*	PROJECT No.:	*3349C1*	REPORT No.:	*7*	DATE:	*21 March 2002*
To:	TGA Perth	Attn:	Operations - N. Mackay				Fax 08 9344 8783
To	OMV Australia Pty Ltd	Attn:	Ron King			Via:	TGA Perth
Copy:	TGGL Compass House	Attn:	Audrey Maysh			Via:	TGA Perth

AA. LOCATION AT 2359 hrs:
At anchor, lee of Gabo Isl., 37 33, S. 149 55, E

BB. WEATHER:
In lee.

CC. OPERATIONAL DATA:

C2. PERSONNEL

	Racal	Sub-Cont	Client	Vessel	Today	Total Project To Date
No. of Persons	5	0	1	5	11	71
Man-Hours	120	0	24	120	262	1692
No. On Today	0	0	0	0	0	0
No. Off Today	0	0	0	0	0	0

C3. SURVEY PROGRESS

Area of Activity	Percent Complete (at end of today)
Mobilisation	100
Patricia 2	100
Baleen 3	100
Pipe route	100
Sole 2	0
Demobilisation	0

C4. RE RUNS TODAY

C5. SUMMARY OF CHARGEABLE TIME

	Today (hours)				Total (hours)			
	Working	Transit	Downtime	Weather	Working	Transit	Downtime	Weather
Patricia 2	0	0	0	24	51.5	26.75	0	47.75
Baleen 3								
Pipe route								
Sole 2								

DD. HSE REPORT:

	Today	To Date
TOTAL HAZARDS/INCIDENTS REPORTED:	0	0
TOTAL MINOR INJURIES:	0	0
TOTAL LTI:	0	0
DETAILS OF INCIDENTS AND DRILLS TODAY:	0	

EE. EVENT DIARY TODAY (all times WST)

From	To	Activity	Code	Hours
1700	*2400*	*At anchor in lee of Gabo Island*	*STBY*	*24*

FF. TIME SUMMARY:

Rate	Code	Hours	Acc. Hours
Standby and/or Weather	*STBY*	*24*	*47.75*
Disputed Time	*DT*	*0*	*0*
Transit	*TR*	*0*	*26.75*
Downtime	*TD*	*0*	*0*
Working	*OP*	*0*	*51.5*
Mobilisation / Demobilisation	*MOB/DEMO*	*0*	*42*
Breakdown (Vessel)	*VD/STBY*	*0*	*0*
Other Nil Revenue Time	*CT*	*0*	*0*
	TOTAL	*24*	*144*

GG. EXPECTED WEATHER FOR NEXT 24 HOURS:
SW 15-25 kn., dec 10-15kn, swell dec 3-4 to <2m

HH. TECHNICAL & PARTY CHIEF'S COMMENTS:
Anchor recover at midnight. ETA on location 0700hrs 220302.

II. CLIENT REPRESENTATIVE'S COMMENTS:
Nil

JJ. PROGRAMME FOR NEXT 24 HOURS:
Commence on Sole with analogue acquisition

Signed for Thales GeoSolutions

Chris Shuttleworth
(Party Chief)

Signed for OMV Australia Pty Ltd

Rick Glanville
(Client Representative)

THALES

DAILY PROJECT REPORT

ALL TIMES ARE WST

VESSEL:	*Blue Fin*	PROJECT No.:	*3349C1*	REPORT No.:	*8*	DATE:	*22 March 2002*
To:	TGA Perth	Attn:	Operations - N. Mackay				Fax 08 9344 8783
To	OMV Australia Pty Ltd	Attn:	Ron King			Via:	TGA Perth
Copy:	TGGL Compass House	Attn:	Audrey Maysh			Via:	TGA Perth

AA. LOCATION AT 2359 hrs:
Sole 2 location

BB. WEATHER:
NE 20 kn, 1-2m seas

CC. OPERATIONAL DATA:

C2. PERSONNEL

	Racal	Sub-Cont	Client	Vessel	Today	Total Project To Date
No. of Persons	5	0	1	5	11	82
Man-Hours	120	0	24	120	262	1954
No. On Today	0	0	0	0	0	0
No. Off Today	0	0	0	0	0	0

C3. SURVEY PROGRESS

Area of Activity	Percent Complete (at end of today)
Mobilisation	100
Patricia 2	100
Baleen 3	100
Pipe route	100
Sole 2	50
Scout pipe route	0
Demobilisation	0

C4. RE RUNS TODAY

C5. SUMMARY OF CHARGEABLE TIME

	Today (hours)				Total (hours)			
	Working	Transit	Downtime	Weather	Working	Transit	Downtime	Weather
Patricia 2	16	0	0	8	67.5	26.75	0	55.75
Baleen 3								
Pipe route								
Sole 2								

DD. HSE REPORT:

	Today	To Date
TOTAL HAZARDS/INCIDENTS REPORTED:	0	0
TOTAL MINOR INJURIES:	0	0
TOTAL LTI:	0	0
DETAILS OF INCIDENTS AND DRILLS TODAY:	0	

EE. EVENT DIARY TODAY (all times WST)

From	To	Activity	Code	Hours
0000	*0800*	*En route Gabo Isl. To Sole 2 site*	*STBY*	*8*
0800	*1000*	*Deploy & tune equipment*	*OP*	*2*
1000	*2400*	*Analogue acquisition on Sole 2 site*	*OP*	*14*

FF. TIME SUMMARY:

Rate	Code	Hours	Acc. Hours
Standby and/or Weather	*STBY*	*8*	*55.75*
Disputed Time	*DT*	*0*	*0*
Transit	*TR*	*0*	*26.75*
Downtime	*TD*	*0*	*0*
Working	*OP*	*16*	*67.5*
Mobilisation / Demobilisation	*MOB/DEMO*	*0*	*42*
Breakdown (Vessel)	*VD/STBY*	*0*	*0*
Other Nil Revenue Time	*CT*	*0*	*0*
	TOTAL	*24*	*168*

GG. EXPECTED WEATHER FOR NEXT 24 HOURS:
Cont. E/NE 10-15 kn

HH. TECHNICAL & PARTY CHIEF'S COMMENTS:
Scout line pipe route from Sole 2 location to meet line Patricia Ballen-15m contour added to programme

II. CLIENT REPRESENTATIVE'S COMMENTS:
Nil

JJ. PROGRAMME FOR NEXT 24 HOURS:
Continue on Sole with analogue acquisition, magnetometer search, coring & scout line, head Welshpool.

Signed for Thales GeoSolutions

Chris Shuttleworth
(Party Chief)

Signed for OMV Australia Pty Ltd

Rick Glanville
(Client Representative)

THALES

DAILY PROJECT REPORT

ALL TIMES ARE WST

VESSEL:	*Blue Fin*	PROJECT No.:	*3349C1 3375C1*	REPORT No.:	*9*	DATE:	*23 March 2002*
To:	TGA Perth	Attn:	Operations - N. Mackay				Fax 08 9344 8783
To	OMV Australia Pty Ltd	Attn:	Ron King			Via:	TGA Perth
Copy:	TGGL Compass House	Attn:	Audrey Maysh			Via:	TGA Perth

AA. LOCATION AT 2359 hrs:
On scout line 38 03 S, 148 53 E

BB. WEATHER:
NE 20 kn, 1-2m seas

CC. OPERATIONAL DATA:

C2. PERSONNEL

	Racal	Sub-Cont	Client	Vessel	Today	Total Project To Date
No. of Persons	5	0	1	5	11	93
Man-Hours	120	0	24	120	262	2216
No. On Today	0	0	0	0	0	0
No. Off Today	0	0	0	0	0	0

C3. SURVEY PROGRESS

Area of Activity	Percent Complete (at end of today)
Mobilisation	100
Patricia 2	100
Baleen 3	100
Pipe route	100
Sole 2	100
Scout pipe route	50
Demobilisation	0

C4. RE RUNS TODAY

C5. SUMMARY OF CHARGEABLE TIME

	Today (hours)				Total (hours)			
	Working	Transit	Downtime	Weather	Working	Transit	Downtime	Weather
Patricia 2	24	0	0	0	91.5	26.75	0	55.75
Baleen 3								
Pipe route								
Sole 2								

DD. HSE REPORT:

	Today	To Date
TOTAL HAZARDS/INCIDENTS REPORTED:	0	0
TOTAL MINOR INJURIES:	0	0
TOTAL LTI:	0	0
DETAILS OF INCIDENTS AND DRILLS TODAY:	0	

EE. EVENT DIARY TODAY (all times WST)

From	To	Activity	Code	Hours
0000	*1200*	*Analogue acquisition on Sole 2 site*	*OP*	*12*
1200	*1800*	*Magnetometer search for Sole 1 wellhead*	*OP*	*6*
1800	*2000*	*Coring*	*OP*	*2*
2000	*2400*	*Scout line, Sole to line north of Patricia Baleen*	*OP*	*4*

FF. TIME SUMMARY:

Rate	Code	Hours	Acc. Hours
Standby and/or Weather	*STBY*	*0*	*55.75*
Disputed Time	*DT*	*0*	*0*
Transit	*TR*	*0*	*26.75*
Downtime	*TD*	*0*	*0*
Working	*OP*	*24*	*91.5*
Mobilisation / Demobilisation	*MOB/DEMO*	*0*	*42*
Breakdown (Vessel)	*VD/STBY*	*0*	*0*
Other Nil Revenue Time	*CT*	*0*	*0*
	TOTAL	*24*	*216*

GG. EXPECTED WEATHER FOR NEXT 24 HOURS:
Cont. E/NE 10-15 kn

HH. TECHNICAL & PARTY CHIEF'S COMMENTS:
ETA Port Welshpool now delayed to approx 1600 hrs 24/03/02

II. CLIENT REPRESENTATIVE'S COMMENTS:
Sole 1 magnetometer runs proved location of seabed disturbance as observed on sidescan to be wellhead position.

JJ. PROGRAMME FOR NEXT 24 HOURS:
Complete scout line, head Port Welshpool for data drop & discharge magnetometers

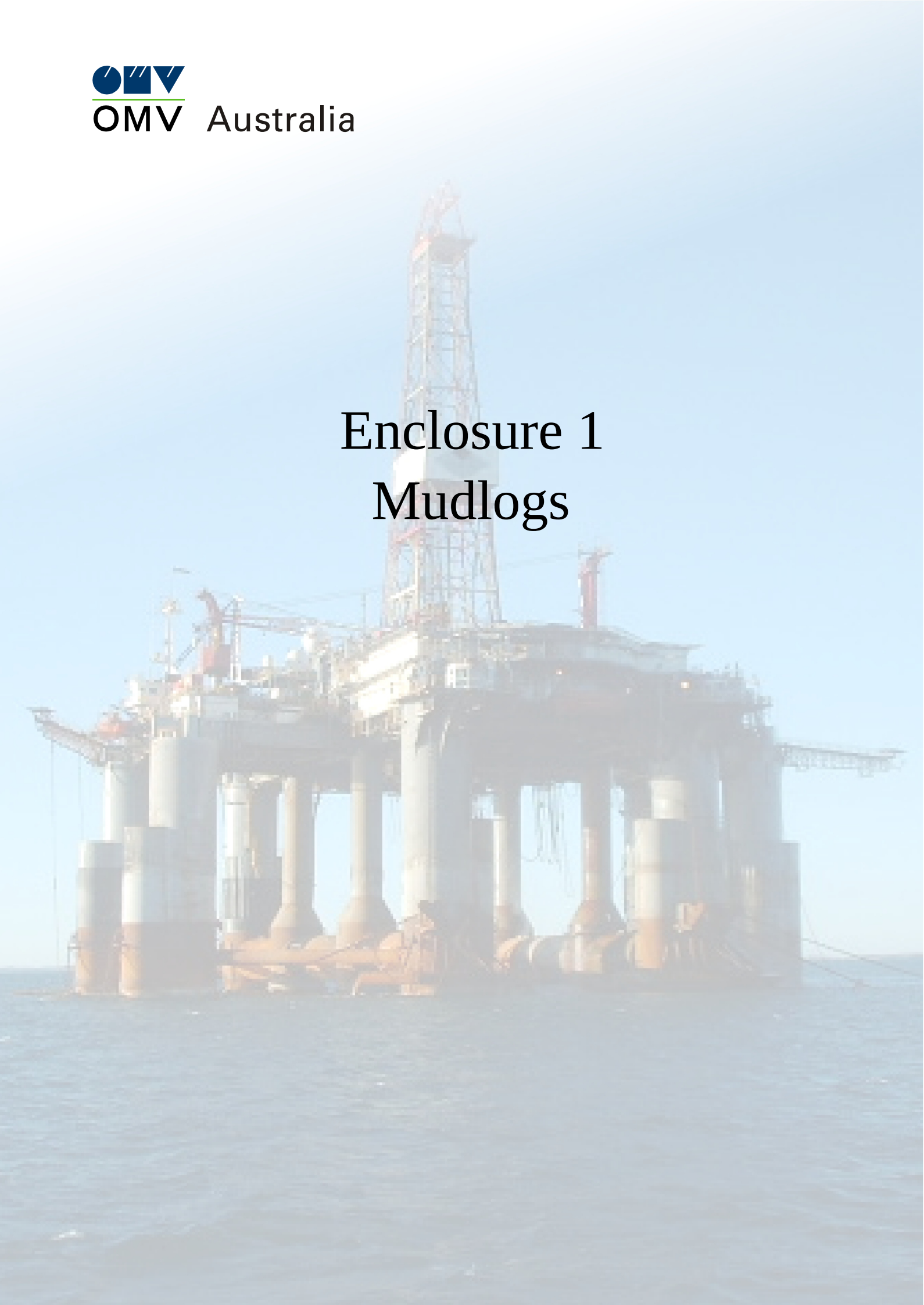
Signed for Thales GeoSolutions

Chris Shuttleworth
(Party Chief)

Signed for OMV Australia Pty Ltd

Rick Glanville
(Client Representative)

OMV Australia



Enclosure 1
Mudlogs

BAKER HUGHES INTEQ

OMV

Company	**OMV Australia**
Well	**Baleen-3, Baleen-3-ST1**
Permit	**VIC/L21**
Region	**Gippsland Sub Basin**
Designation	**Field Development**
Coordinates	**038° 00' 20.99" S Lat** **148° 26' 34.42" E Long**
Ref Elevation	**RT 25 m**
Total Depth	**1352 mRT Baleen-3** **1555mRT Baleen-3-ST1**
Contractor	**Diamond Offshore General Co.**
Rig	**MODU Ocean Bounty**
Type	**Semi-Submersible**

LOG INTERVAL

Depth	**77.5 mRT to 1555 mRT**
Date	**24th May – 04th June 2002**
Scale	**1:500**
Data Engineers	**R. Tena, J. Mcleod, J. Wilson**
Loggers	**E. Spence, M. Dixon, T. Liang**

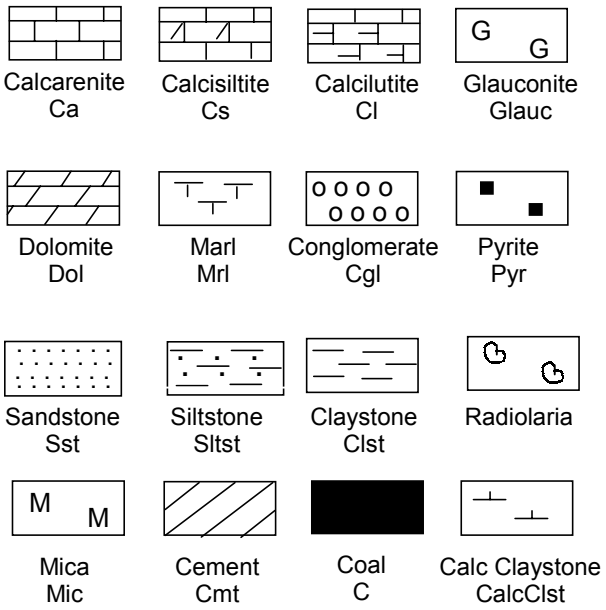
INTEQ LOG SUITE

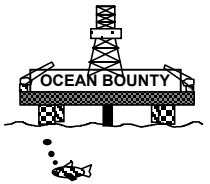
Formation Evaluation
Drilling Data Plot
Gas Ratio Plot
Drilling Data Pressure Plot
Pressure Summary Plot

ABBREVIATIONS

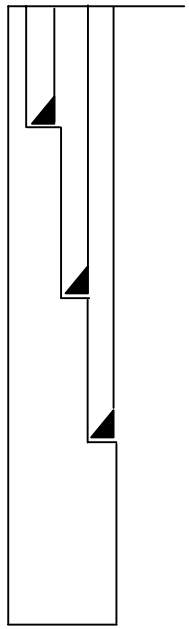
NB	New Bit	MD	Measured Depth
RB	Rerun Bit	GPM	Gallons per Min
CB	Core Bit	PP	Pump Pressure
WOB	Weight on Bit	MW	Mud Weight sg
RPM	Revs per Minute	FV	Funnel Viscosity
FLC	Flow Check	F	Filtrate - API
CR	Circulate Returns	FC	Filter Cake
PR	Poor Returns	PV	Plastic Viscosity
NR	No Returns	YP	Yield Point
BG	Background Gas	Sol	Solids %
WTG	Wiper Trip Gas	Sd	Sand %
TG	Trip Gas	Cl	Chlorides
POG	Pumps Off Gas	RM	Mud Resistivity
CG	Connection Gas	RMF	Filtrate Resistivty
SG	Swab Gas	TVD	True Vertical Depth

LITHOLOGY SYMBOLS





Datum, Drillfloor (DF)
Sealevel 25 mBDF
52.5 (LAT)



Seabed @ 77.5m

Drilling Fluid: Seawater / Hi-vis sweeps

36" hole to 112m
30" x 20" csg set @ 112m

Drilling Fluid: Seawater / Hi-vis sweeps

17.5" hole to 336m
13.375" csg set @ 327.4m

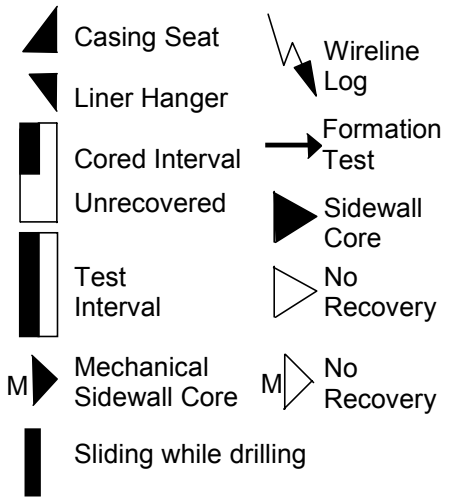
Drilling Fluid:
KCl / PHPA / Glycol

12.25" hole to 871m
9.625" csg set @ 866.1m

Drilling Fluid:
FLO - PRO

8.5" hole to 1352m

Baleen-3-ST1
8.5" hole from 1137m-1555m



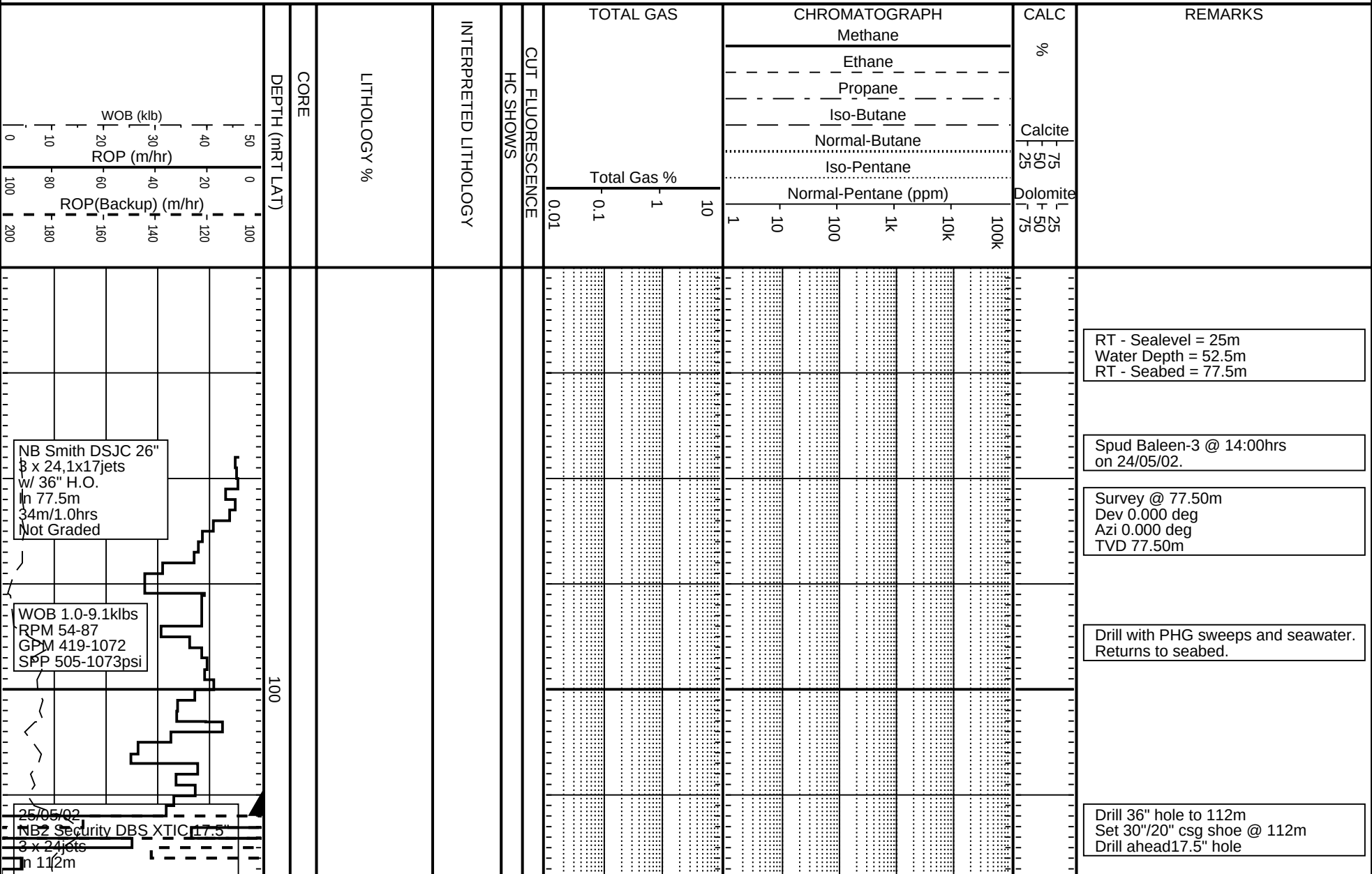
BAKER HUGHES INTEQ

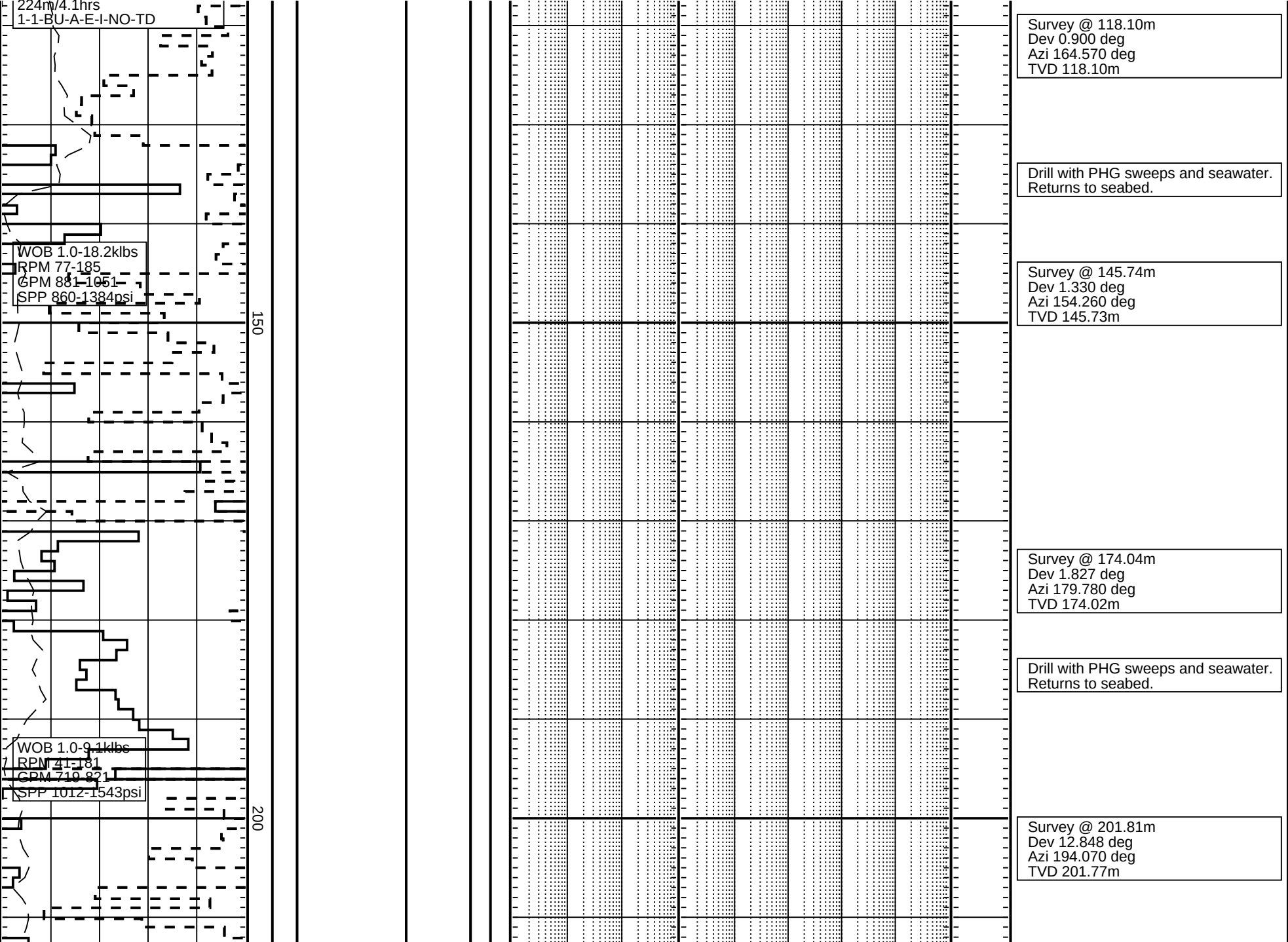
FORMATION EVALUATION LOG

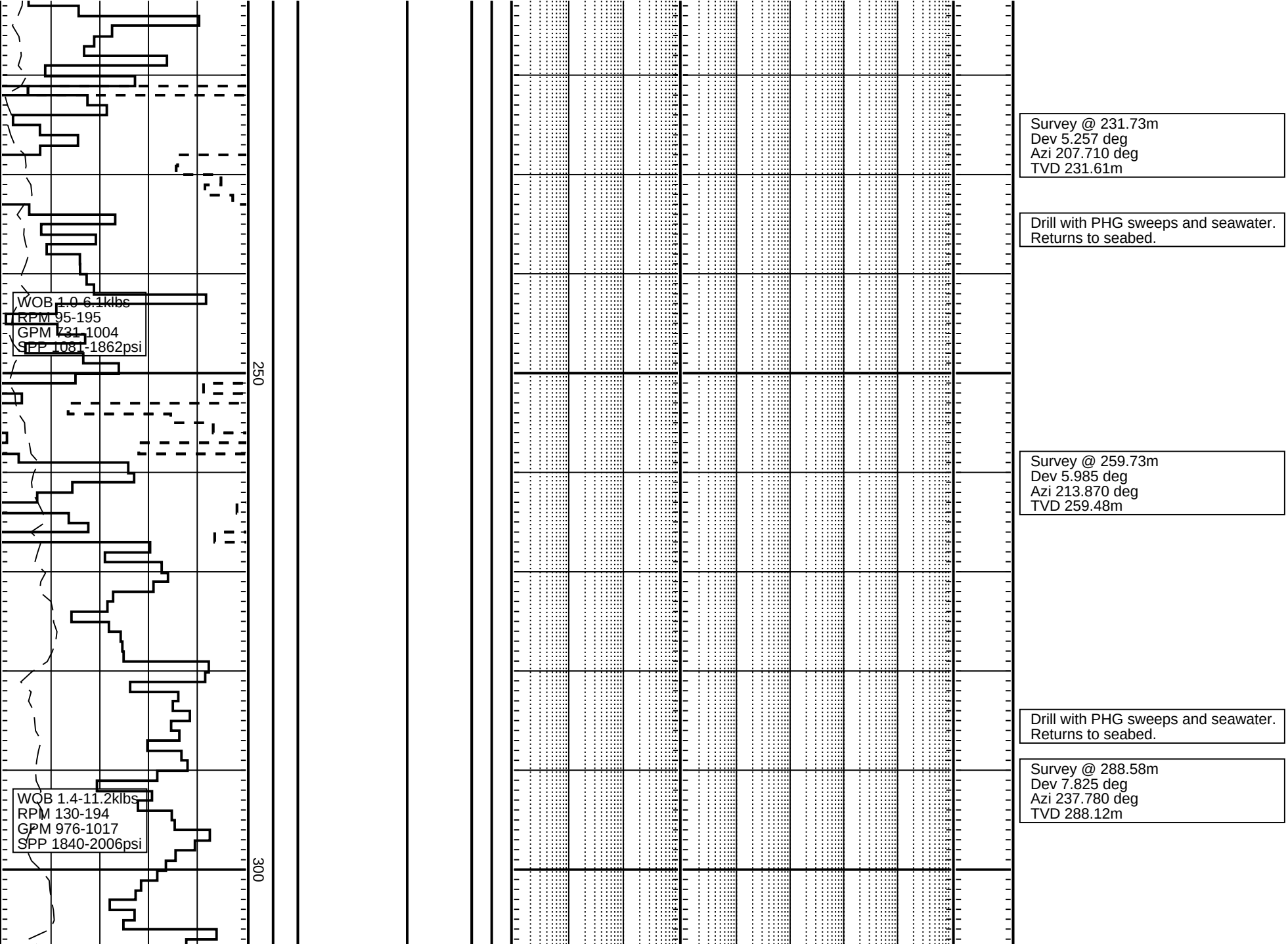
Baleen-3

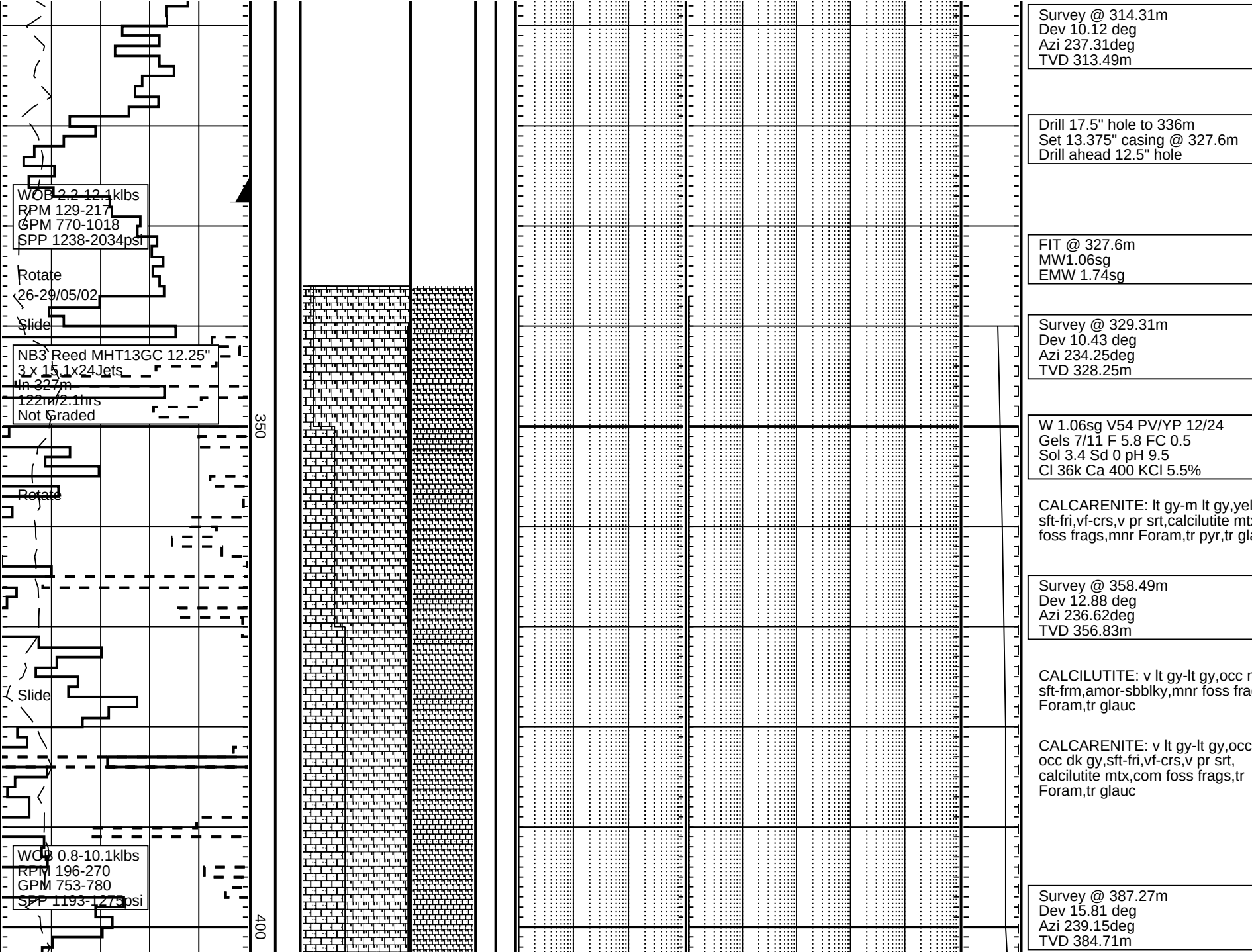
SCALE: 1:500

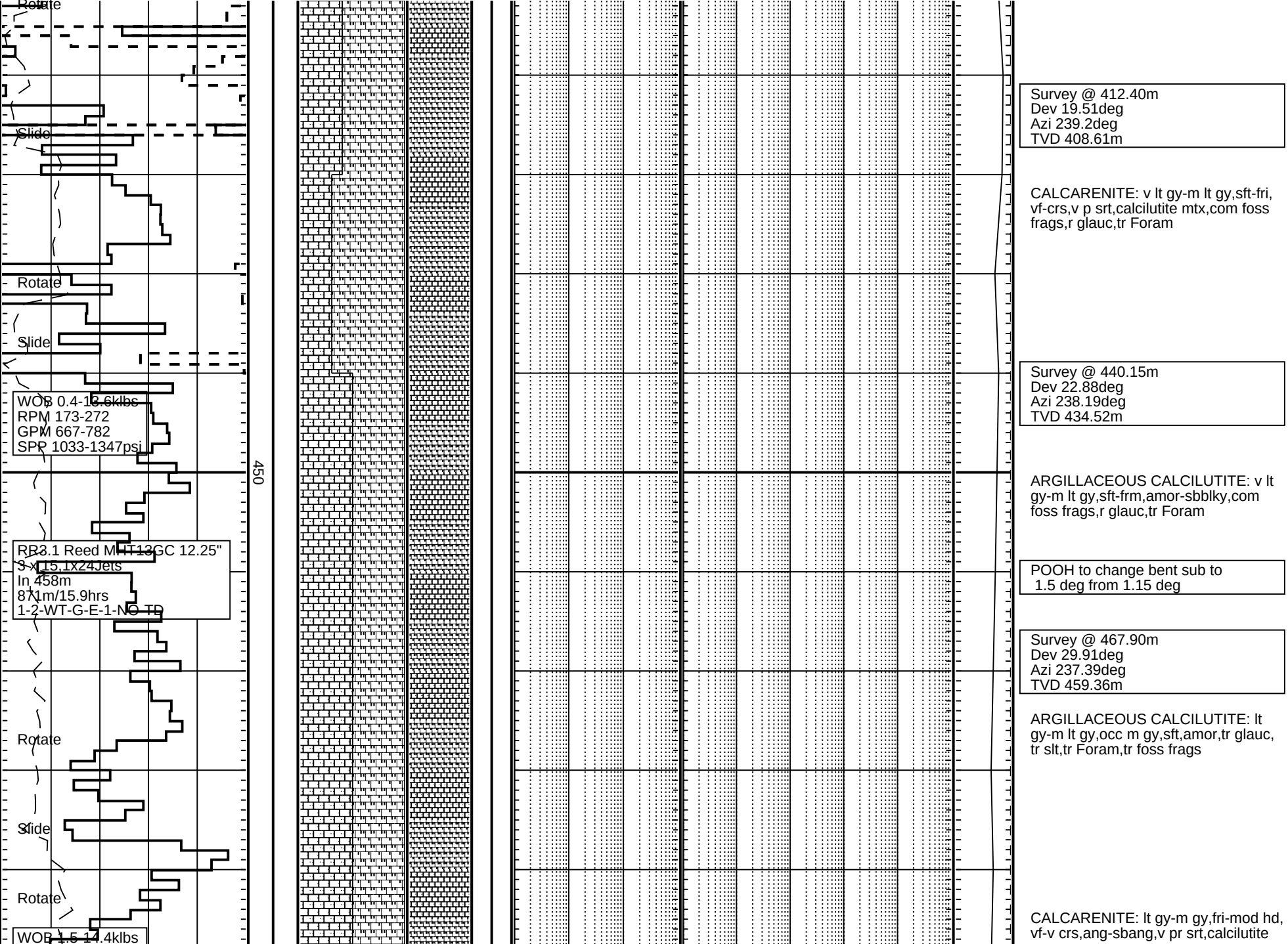
OMV Australia

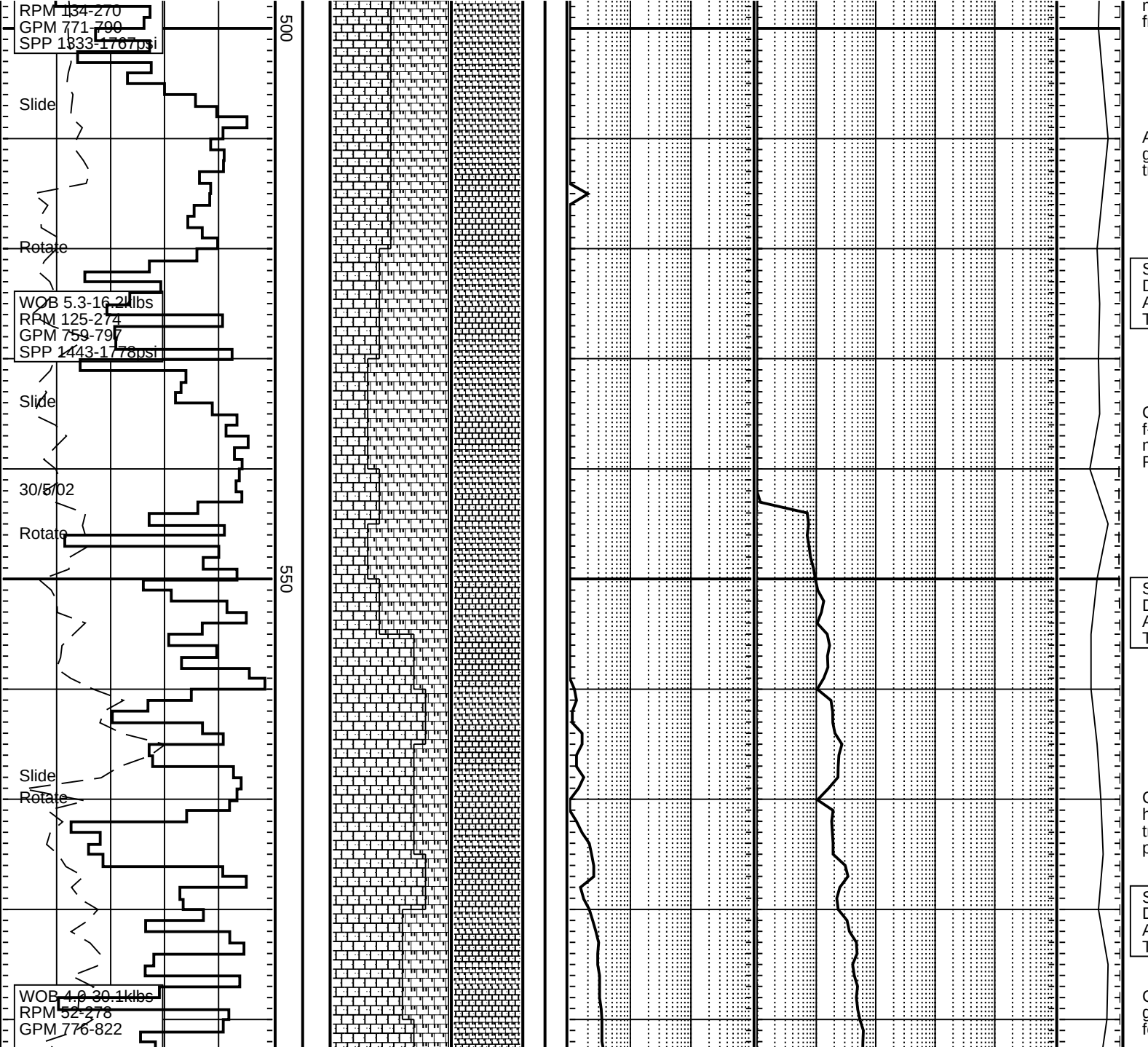


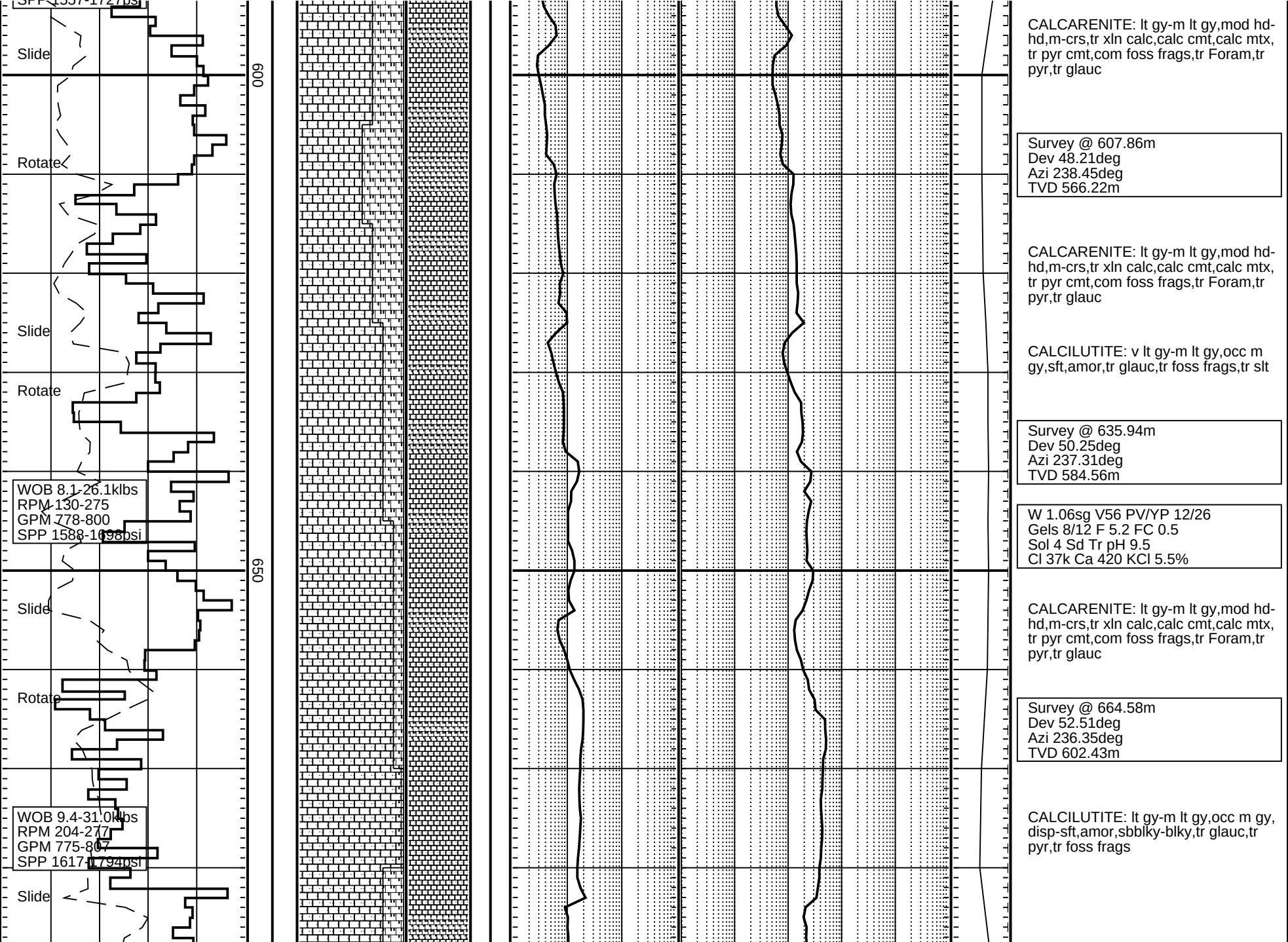

224m/4.1hrs
1-1-BU-A-E-I-NO-TD
WOB 1.0-18.2klbs
RPM 77-185
GPM 881-1051
SPP 860-1384psi
150
WOB 1.0-9.1klbs
RPM 41-181
GPM 719-821
SPP 1012-1543psi
200
Survey @ 118.10m
Dev 0.900 deg
Azi 164.570 deg
TVD 118.10m
Drill with PHG sweeps and seawater.
Returns to seabed.
Survey @ 145.74m
Dev 1.330 deg
Azi 154.260 deg
TVD 145.73m
Survey @ 174.04m
Dev 1.827 deg
Azi 179.780 deg
TVD 174.02m
Drill with PHG sweeps and seawater.
Returns to seabed.
Survey @ 201.81m
Dev 12.848 deg
Azi 194.070 deg
TVD 201.77m

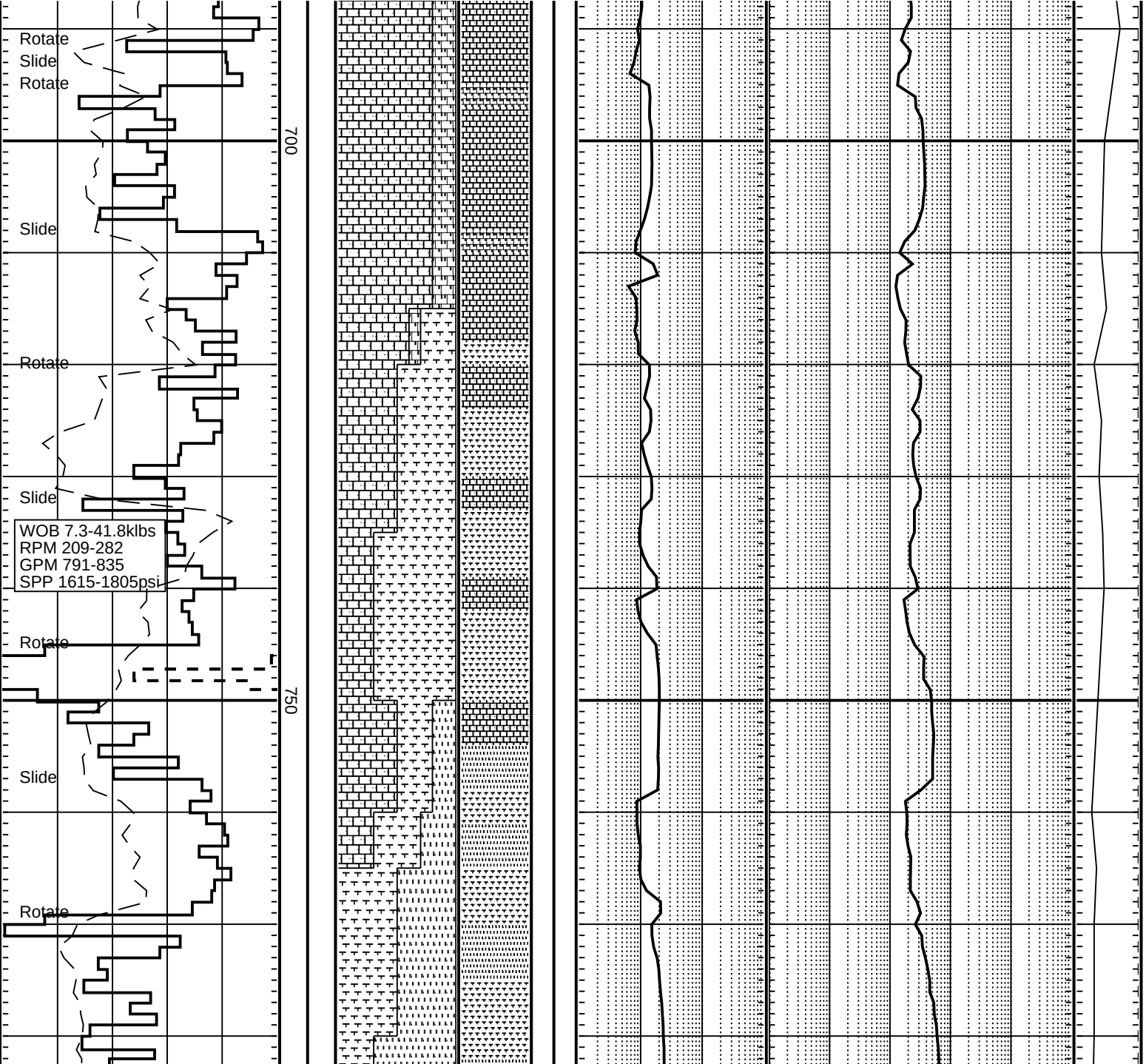

WOB 1.0-6.1klbs
RPM 95-195
GPM 731-1004
SPP 1081-1862psi
250
WOB 1.4-11.2klbs
RPM 130-194
GPM 976-1017
SPP 1840-2006psi
300
Survey @ 231.73m
Dev 5.257 deg
Azi 207.710 deg
TVD 231.61m
Drill with PHG sweeps and seawater.
Returns to seabed.
Survey @ 259.73m
Dev 5.985 deg
Azi 213.870 deg
TVD 259.48m
Drill with PHG sweeps and seawater.
Returns to seabed.
Survey @ 288.58m
Dev 7.825 deg
Azi 237.780 deg
TVD 288.12m

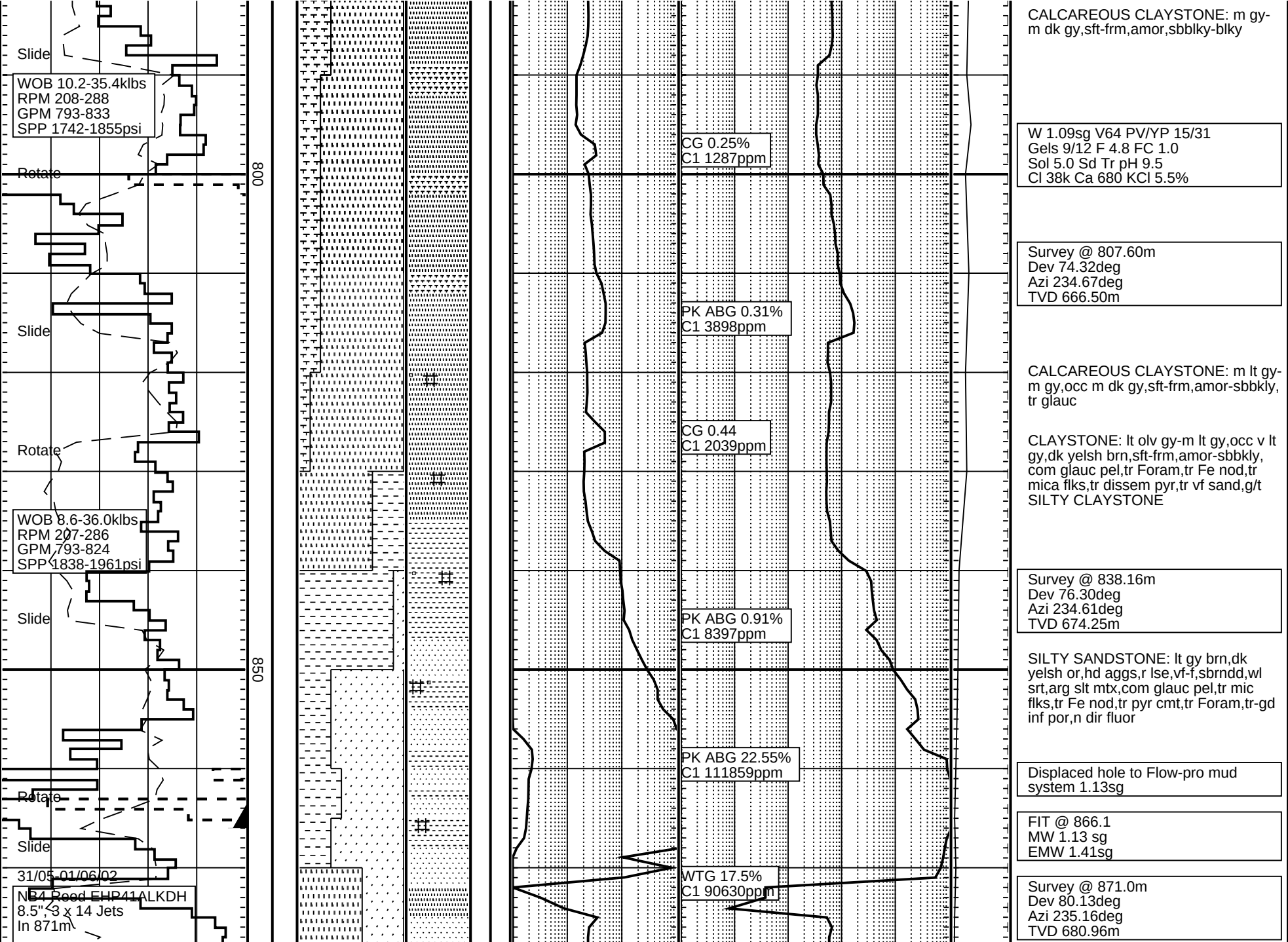

WOB 2.2-12.1klbs
RPM 129-217
GPM 770-1018
SPP 1238-2034psi
Rotate
26-29/05/02
Slide
NB3 Reed MHT13GC 12.25"
3 x 15.1x24Jets
In 327m
122m/2.1hrs
Not Graded
350
Rotate
Slide
WOB 0.8-10.1klbs
RPM 196-270
GPM 753-780
SPP 1193-1275psi
400
Survey @ 314.31m
Dev 10.12 deg
Azi 237.31deg
TVD 313.49m
Drill 17.5" hole to 336m
Set 13.375" casing @ 327.6m
Drill ahead 12.5" hole
FIT @ 327.6m
MW1.06sg
EMW 1.74sg
Survey @ 329.31m
Dev 10.43 deg
Azi 234.25deg
TVD 328.25m
W 1.06sg V54 PV/YP 12/24
Gels 7/11 F 5.8 FC 0.5
Sol 3.4 Sd 0 pH 9.5
Cl 36k Ca 400 KCl 5.5%
CALCARENITE: lt gy-m lt gy,yelsh gy, sft-fri,vf-crs,v pr srt,calcilutite mtx,com foss frags,mnr Foram,tr pyr,tr glauc
Survey @ 358.49m
Dev 12.88 deg
Azi 236.62deg
TVD 356.83m
CALCILUTITE: v lt gy-lt gy,occ m gy, sft-frm,amor-sbblky,mnr foss frags,tr Foram,tr glauc
CALCARENITE: v lt gy-lt gy,occ m gy, occ dk gy,sft-fri,vf-crs,v pr srt, calcilutite mtx,com foss frags,tr Foram,tr glauc
Survey @ 387.27m
Dev 15.81 deg
Azi 239.15deg
TVD 384.71m

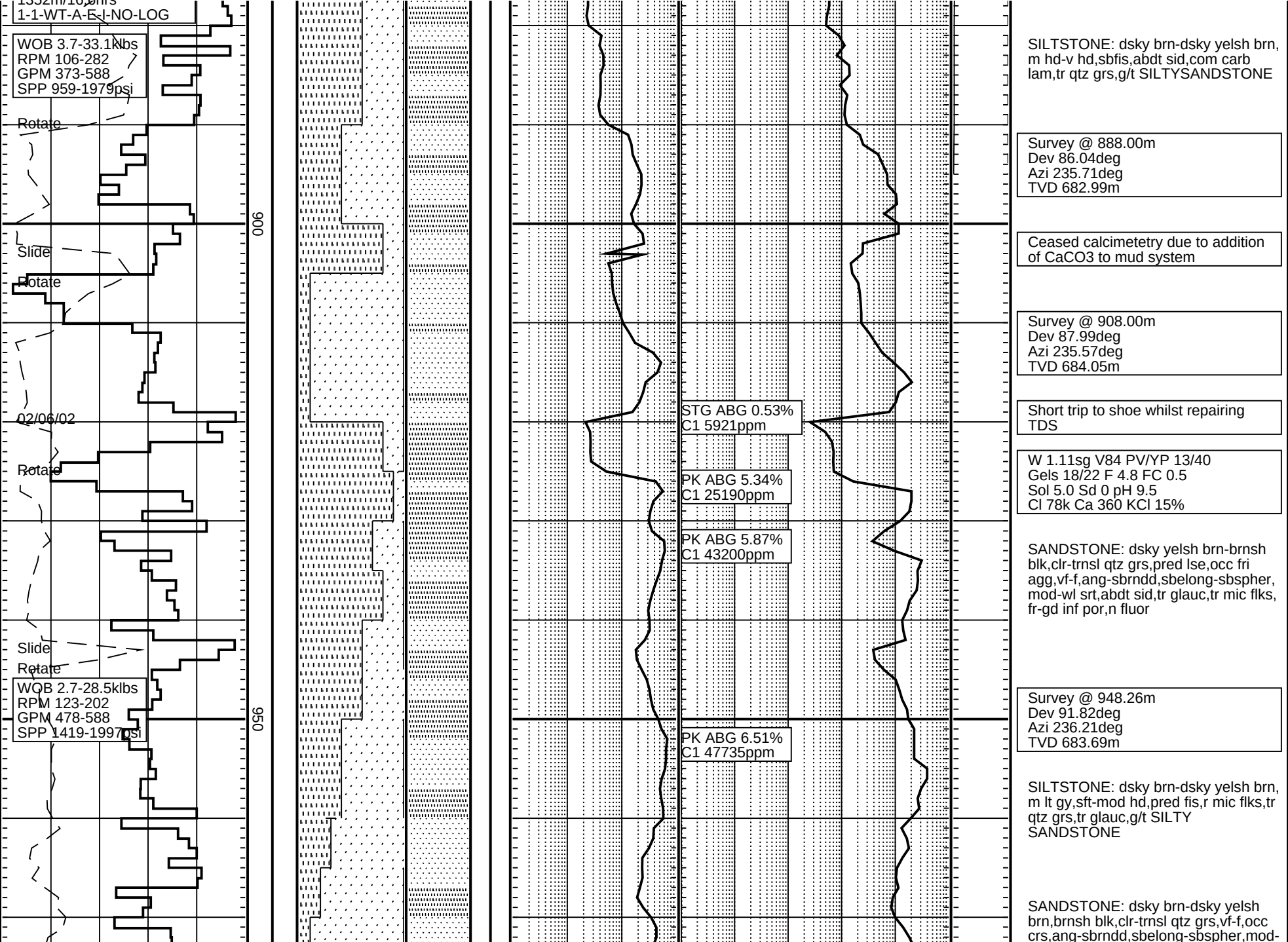

Rotate
Slide
Rotate
Slide
WOB 0.4-12.6klbs
RPM 173-272
GPM 667-782
SPP 1033-1347psi
450
RR3.1 Reed MHT13GC 12.25"
3 x 15.1x24Jets
In 458m
871m/15.9hrs
1-2-WT-G-E-1-NO TD
Rotate
Slide
Rotate
WOB 1.5-17.4klbs
Survey @ 412.40m
Dev 19.51deg
Azi 239.2deg
TVD 408.61m
CALCARENITE: v lt gy-m lt gy,sft-fri, vf-crs,v p srt,calcilutite mtx,com foss frags,r glauc,tr Foram
Survey @ 440.15m
Dev 22.88deg
Azi 238.19deg
TVD 434.52m
ARGILLACEOUS CALCILUTITE: v lt gy-m lt gy,sft-frm,amor-sbblky,com foss frags,r glauc,tr Foram
POOH to change bent sub to 1.5 deg from 1.15 deg
Survey @ 467.90m
Dev 29.91deg
Azi 237.39deg
TVD 459.36m
ARGILLACEOUS CALCILUTITE: lt gy-m lt gy,occ m gy,sft,amor,tr glauc, tr slt,tr Foram,tr foss frags
CALCARENITE: lt gy-m gy,fri-mod hd, vf-v crs,ang-sbang,v pr srt,calcilutite

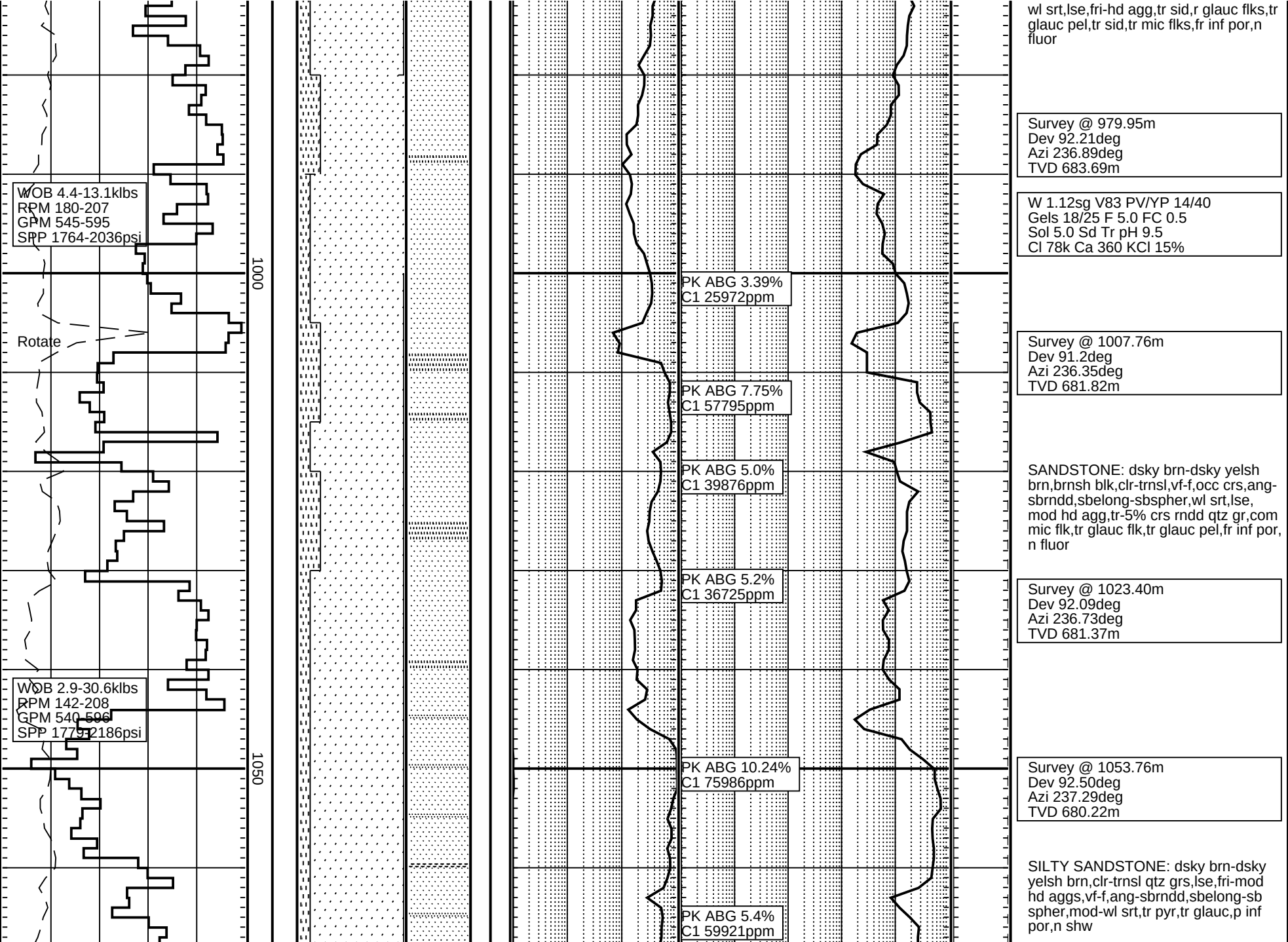

RPM 134-270
GPM 771-790
SPP 1533-1767psi
Slide
Rotate
WOB 5.3-16.2klbs
RPM 125-274
GPM 759-797
SPP 1443-1778psi
Slide
30/5702
Rotate
Slide
Rotate
WOB 4.0-30.1klbs
RPM 52-278
GPM 776-822
500
550
mtx,tr calc cmt,tr pyr cmt,com foss frags,tr Foram,tr chert,tr glauc
ARGILLACEOUS CALCILUTITE: v lt gy-m lt gy,occ m gy,sft,amor,tr glauc, tr foss frags,tr slt
Survey @ 522.74m
Dev 38.61deg
Azi 235.9deg
TVD 504.59m
CALCARENITE: lt gy-m gy,fri-mod hd, f-v crs,ang-sbang,v pr srt,calcilutite mtx,tr calc cmt,com foss frags,tr Foram,tr pyr,tr glauc
Survey @ 551.5m
Dev 43.05deg
Azi 237.97deg
TVD 526.35m
CALCARENITE: lt gy-m lt gy,mod hd-hd,m-crs,tr xln calc,calc cmt,calc mtx, tr pyr cmt,com foss frags,tr Foram,tr pyr
Survey @ 579.6m
Dev 44.26deg
Azi 237.77deg
TVD 546.67m
CALCILUTITE: vlt gy-m lt gy,occ m gy,sft,amor,tr glauc,tr slt,tr Forams,tr foss frags

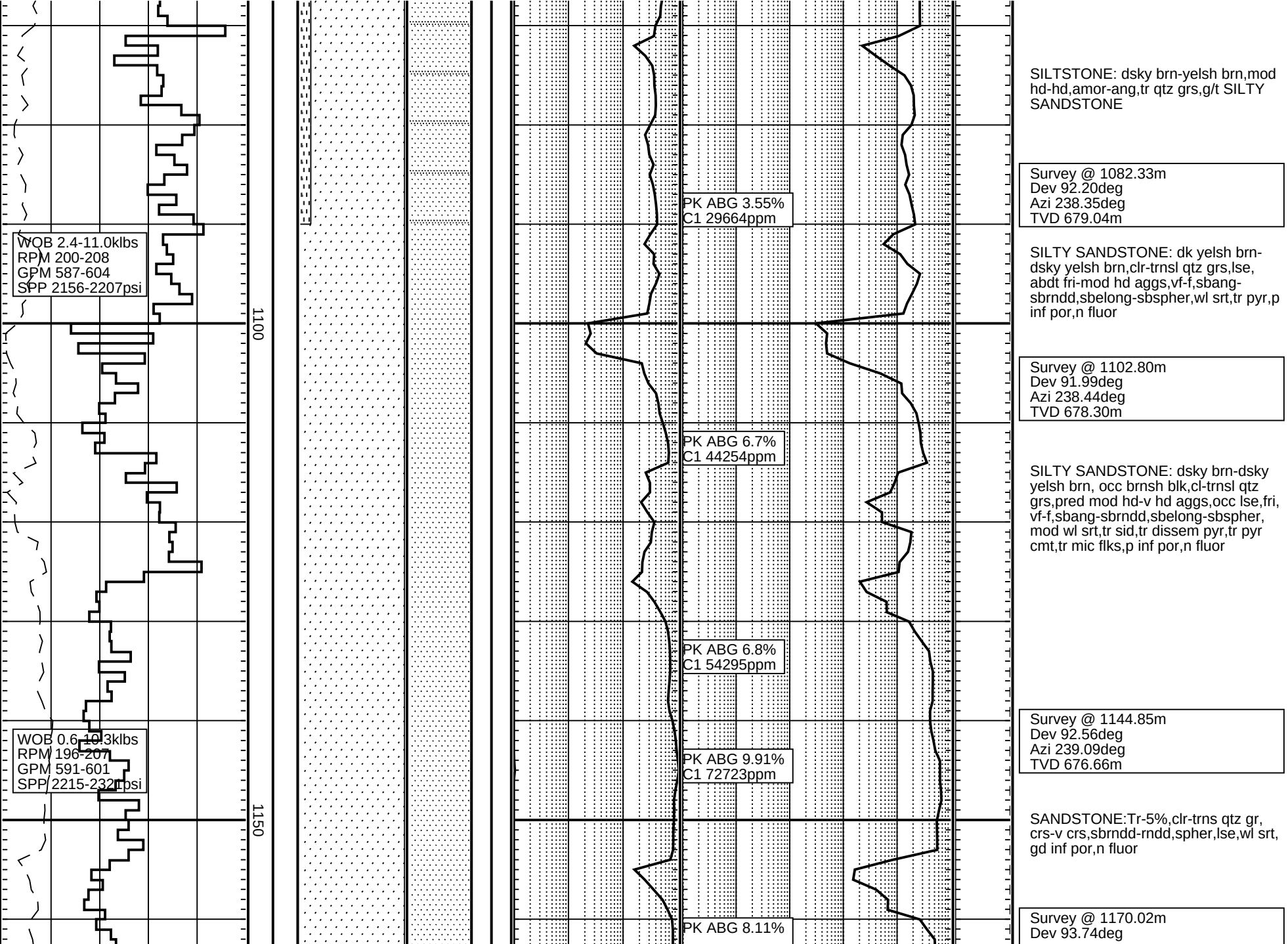

SPP 1597-1727psi
Slide
600
Rotate
Slide
Rotate
WOB 8.1-26.1klbs
RPM 130-275
GPM 778-800
SPP 1588-1698psi
650
Slide
Rotate
WOB 9.4-31.0klbs
RPM 204-277
GPM 775-807
SPP 1617-1794psi
Slide
CALCARENITE: lt gy-m lt gy,mod hd-hd,m-crs,tr xln calc,calc cmt,calc mtx, tr pyr cmt,com foss frags,tr Foram,tr pyr,tr glauc
Survey @ 607.86m
Dev 48.21deg
Azi 238.45deg
TVD 566.22m
CALCARENITE: lt gy-m lt gy,mod hd-hd,m-crs,tr xln calc,calc cmt,calc mtx, tr pyr cmt,com foss frags,tr Foram,tr pyr,tr glauc
CALCILUTITE: v lt gy-m lt gy,occ m gy,sft,amor,tr glauc,tr foss frags,tr slt
Survey @ 635.94m
Dev 50.25deg
Azi 237.31deg
TVD 584.56m
W 1.06sg V56 PV/YP 12/26
Gels 8/12 F 5.2 FC 0.5
Sol 4 Sd Tr pH 9.5
Cl 37k Ca 420 KCl 5.5%
CALCARENITE: lt gy-m lt gy,mod hd-hd,m-crs,tr xln calc,calc cmt,calc mtx, tr pyr cmt,com foss frags,tr Foram,tr pyr,tr glauc
Survey @ 664.58m
Dev 52.51deg
Azi 236.35deg
TVD 602.43m
CALCILUTITE: lt gy-m lt gy,occ m gy, disp-sft,amor,sbblky-blky,tr glauc,tr pyr,tr foss frags

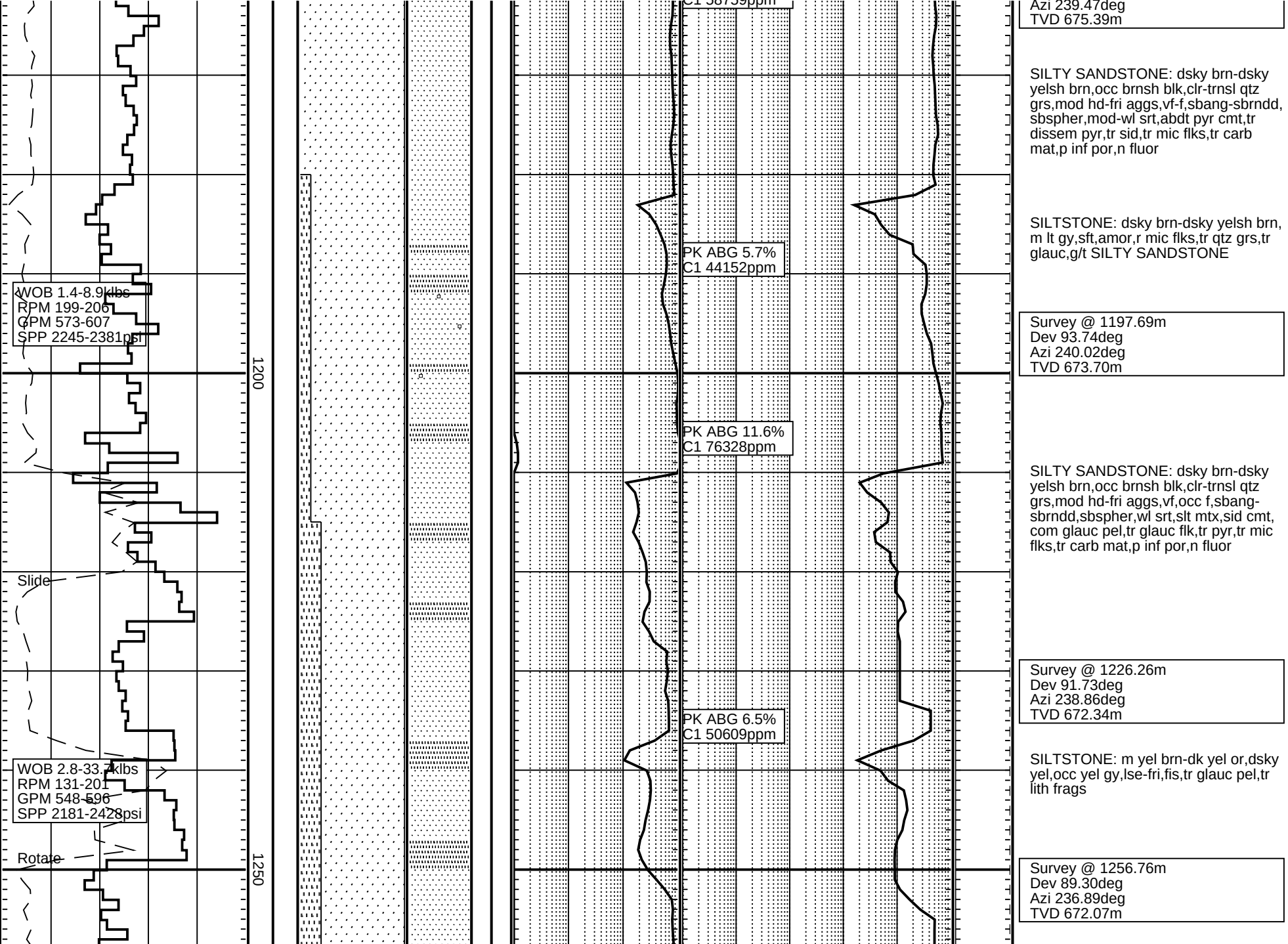

Rotate
Slide
Rotate
700
Slide
Rotate
Slide
WOB 7.3-41.8klbs
RPM 209-282
GPM 791-835
SPP 1615-1805psi
Rotate
750
Slide
Rotate
Survey @ 693.11m
Dev 56.48deg
Azi 236.02deg
TVD 619.00m
CALCARENITE: vlt gy-lt gy,sft-frm, mod hd,sbang-sbrndd,f-crs,calc mtx,tr foss frags,tr Forams,tr glauc
ARGILLACEOUS CALCILUTITE: lt gy-m lt gy,occ m gy,sft,disp,amor, sbblky-blky,tr foss frags,tr glauc,tr pyr, g/t CALCAREOUS CLAYSTONE
Survey @ 722.38m
Dev 60.67deg
Azi 235.89deg
TVD 634.25m
MARL: v lt gy-m lt gy,disp-sft,amor-sbblky
Survey @ 751.25m
Dev 65.86deg
Azi 235.69deg
TVD 647.24m
CALCAREOUS CLAYSTONE: m gy-m dk gy,sft-frm,amor,sbblky-blky
MARL: v lt gy-m lt gy,disp-sft,amor-sbblky
Survey @ 780.38m
Dev 70.04deg
Azi 235.69deg
TVD 658.17m

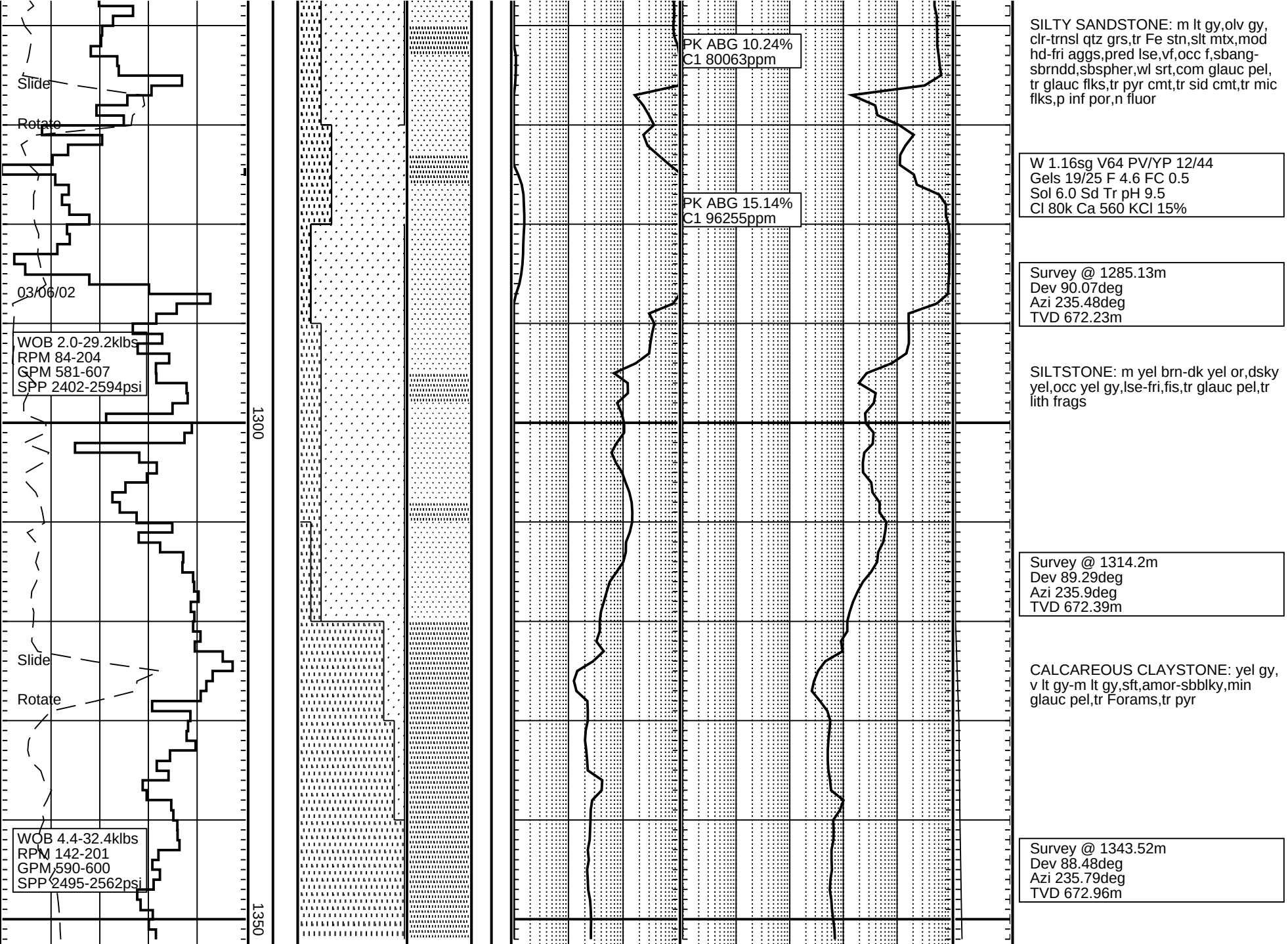

Slide
WOB 10.2-35.4klbs
RPM 208-288
GPM 793-833
SPP 1742-1855psi
Rotate
800
Slide
Rotate
WOB 8.6-36.0klbs
RPM 207-286
GPM 793-824
SPP 1838-1961psi
Slide
850
Rotate
Slide
31/05-01/06/02
NB4 Reed EHP41ALKDH
8.5", 3 x 14 Jets
In 871m
CG 0.25%
C1 1287ppm
PK ABG 0.31%
C1 3898ppm
CG 0.44
C1 2039ppm
PK ABG 0.91%
C1 8397ppm
PK ABG 22.55%
C1 111859ppm
WTG 17.5%
C1 90630ppm
CALCAREOUS CLAYSTONE: m gy-m dk gy,sft-frm,amor,sbblky-blky
W 1.09sg V64 PV/YP 15/31
Gels 9/12 F 4.8 FC 1.0
Sol 5.0 Sd Tr pH 9.5
Cl 38k Ca 680 KCl 5.5%
Survey @ 807.60m
Dev 74.32deg
Azi 234.67deg
TVD 666.50m
CALCAREOUS CLAYSTONE: m lt gy-m gy,occ m dk gy,sft-frm,amor-sbbkly, tr glauc
CLAYSTONE: lt olv gy-m lt gy,occ v lt gy,dk yelsh brn,sft-frm,amor-sbbkly, com glauc pel,tr Foram,tr Fe nod,tr mica flks,tr dissem pyr,tr vf sand,g/t SILTY CLAYSTONE
Survey @ 838.16m
Dev 76.30deg
Azi 234.61deg
TVD 674.25m
SILTY SANDSTONE: lt gy brn,dk yelsh or,hd aggs,r lse,vf-f,sbrndd,wl srt,arg slt mtx,com glauc pel,tr mic flks,tr Fe nod,tr pyr cmt,tr Foram,tr-gd inf por,n dir fluor
Displaced hole to Flow-pro mud system 1.13sg
FIT @ 866.1
MW 1.13 sg
EMW 1.41sg
Survey @ 871.0m
Dev 80.13deg
Azi 235.16deg
TVD 680.96m

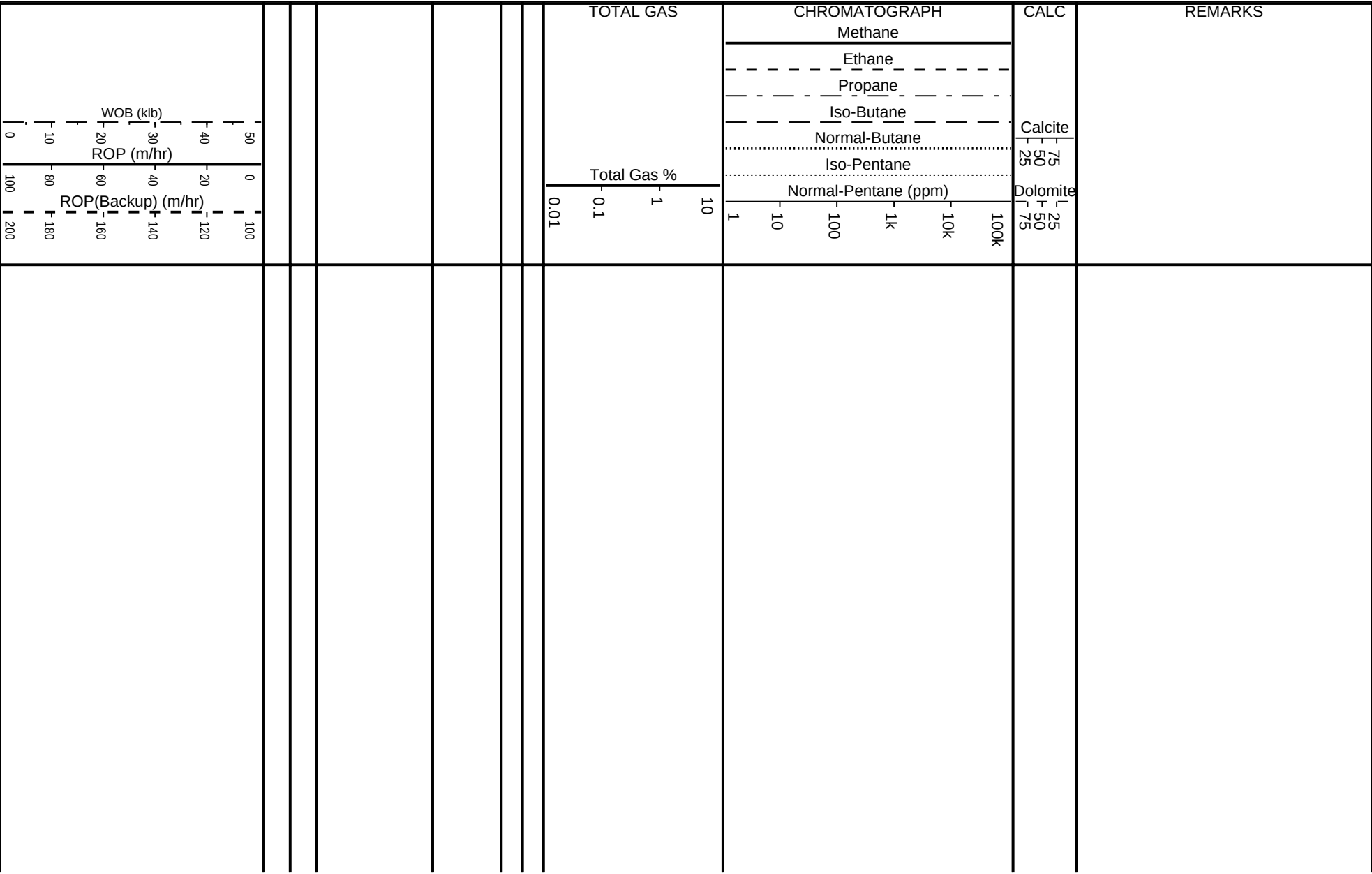

1352m/16.9hrs
1-1-WT-A-E-I-NO-LOG
WOB 3.7-33.1klbs
RPM 106-282
GPM 373-588
SPP 959-1979psi
Rotate
900
Slide
Rotate
02/06/02
Rotate
Slide
Rotate
WOB 2.7-28.5klbs
RPM 123-202
GPM 478-588
SPP 1419-1997psi
950
STG ABG 0.53%
C1 5921ppm
PK ABG 5.34%
C1 25190ppm
PK ABG 5.87%
C1 43200ppm
PK ABG 6.51%
C1 47735ppm
SILTSTONE: dsky brn-dsky yelsh brn, m hd-v hd,sbfis,abdt sid,com carb lam,tr qtz grs,g/t SILTYSANDSTONE
Survey @ 888.00m
Dev 86.04deg
Azi 235.71deg
TVD 682.99m
Ceased calcimetetry due to addition of CaCO3 to mud system
Survey @ 908.00m
Dev 87.99deg
Azi 235.57deg
TVD 684.05m
Short trip to shoe whilst repairing TDS
W 1.11sg V84 PV/YP 13/40
Gels 18/22 F 4.8 FC 0.5
Sol 5.0 Sd 0 pH 9.5
Cl 78k Ca 360 KCl 15%
SANDSTONE: dsky yelsh brn-brnsh blk,clr-trnsl qtz grs,pred lse,occ fri agg,vf-f,ang-sbrndd,sbelong-sbspher, mod-wl srt,abdt sid,tr glauc,tr mic flks, fr-gd inf por,n fluor
Survey @ 948.26m
Dev 91.82deg
Azi 236.21deg
TVD 683.69m
SILTSTONE: dsky brn-dsky yelsh brn, m lt gy,sft-mod hd,pred fis,r mic flks,tr qtz grs,tr glauc,g/t SILTY SANDSTONE
SANDSTONE: dsky brn-dsky yelsh brn,brnsh blk,clr-trnsl qtz grs,vf-f,occ crs,ang-sbrndd,sbelong-sbspher,mod-


WOB 4.4-13.1klbs
RPM 180-207
GPM 545-595
SPP 1764-2036psi
1000
Rotate
WOB 2.9-30.6klbs
RPM 142-208
GPM 540-596
SPP 1779-2186psi
1050
PK ABG 3.39%
C1 25972ppm
PK ABG 7.75%
C1 57795ppm
PK ABG 5.0%
C1 39876ppm
PK ABG 5.2%
C1 36725ppm
PK ABG 10.24%
C1 75986ppm
PK ABG 5.4%
C1 59921ppm
wl srt,lse,fri-hd agg,tr sid,r glauc flks,tr glauc pel,tr sid,tr mic flks,fr inf por,n fluor
Survey @ 979.95m
Dev 92.21deg
Azi 236.89deg
TVD 683.69m
W 1.12sg V83 PV/YP 14/40
Gels 18/25 F 5.0 FC 0.5
Sol 5.0 Sd Tr pH 9.5
Cl 78k Ca 360 KCl 15%
Survey @ 1007.76m
Dev 91.2deg
Azi 236.35deg
TVD 681.82m
SANDSTONE: dsky brn-dsky yelsh brn,brnsh blk,clr-trnsl,vf-f,occ crs,ang-sbrndd,sbelong-sbspher,wl srt,lse, mod hd agg,tr-5% crs rndd qtz gr,com mic flk,tr glauc flk,tr glauc pel,fr inf por, n fluor
Survey @ 1023.40m
Dev 92.09deg
Azi 236.73deg
TVD 681.37m
Survey @ 1053.76m
Dev 92.50deg
Azi 237.29deg
TVD 680.22m
SILTY SANDSTONE: dsky brn-dsky yelsh brn,clr-trnsl qtz grs,lse,fri-mod hd aggs,vf-f,ang-sbrndd,sbelong-sb spher,mod-wl srt,tr pyr,tr glauc,p inf por,n shw


WOB 2.4-11.0klbs
RPM 200-208
GPM 587-604
SPP 2156-2207psi
1100
WOB 0.6-10.3klbs
RPM 196-207
GPM 591-601
SPP 2215-2321psi
1150
PK ABG 3.55%
C1 29664ppm
PK ABG 6.7%
C1 44254ppm
PK ABG 6.8%
C1 54295ppm
PK ABG 9.91%
C1 72723ppm
PK ABG 8.11%
SILTSTONE: dsky brn-yelsh brn,mod hd-hd,amor-ang,tr qtz grs,g/t SILTY SANDSTONE
Survey @ 1082.33m
Dev 92.20deg
Azi 238.35deg
TVD 679.04m
SILTY SANDSTONE: dk yelsh brn-dsky yelsh brn,clr-trnsl qtz grs,lse, abdt fri-mod hd aggs,vf-f,sbang-sbrndd,sbelong-sbspher,wl srt,tr pyr,p inf por,n fluor
Survey @ 1102.80m
Dev 91.99deg
Azi 238.44deg
TVD 678.30m
SILTY SANDSTONE: dsky brn-dsky yelsh brn, occ brnsh blk,cl-trnsl qtz grs,pred mod hd-v hd aggs,occ lse,fri, vf-f,sbang-sbrndd,sbelong-sbspher, mod wl srt,tr sid,tr dissem pyr,tr pyr cmt,tr mic flks,p inf por,n fluor
Survey @ 1144.85m
Dev 92.56deg
Azi 239.09deg
TVD 676.66m
SANDSTONE:Tr-5%,clr-trns qtz gr, crs-v crs,sbrndd-rndd,spher,lse,wl srt, gd inf por,n fluor
Survey @ 1170.02m
Dev 93.74deg


C1 58739ppm
Azi 239.47deg
TVD 675.39m
SILTY SANDSTONE: dsky brn-dsky yelsh brn,occ brnsh blk,clr-trnsl qtz grs,mod hd-fri aggs,vf-f,sbang-sbrndd, sbspher,mod-wl srt,abdt pyr cmt,tr dissem pyr,tr sid,tr mic flks,tr carb mat,p inf por,n fluor
SILTSTONE: dsky brn-dsky yelsh brn, m lt gy,sft,amor,r mic flks,tr qtz grs,tr glauc,g/t SILTY SANDSTONE
PK ABG 5.7%
C1 44152ppm
WOB 1.4-8.9klbs
RPM 199-206
GPM 573-607
SPP 2245-2381psi
Survey @ 1197.69m
Dev 93.74deg
Azi 240.02deg
TVD 673.70m
1200
PK ABG 11.6%
C1 76328ppm
SILTY SANDSTONE: dsky brn-dsky yelsh brn,occ brnsh blk,clr-trnsl qtz grs,mod hd-fri aggs,vf,occ f,sbang-sbrndd,sbspher,wl srt,slt mtx,sid cmt, com glauc pel,tr glauc flk,tr pyr,tr mic flks,tr carb mat,p inf por,n fluor
Slide
Survey @ 1226.26m
Dev 91.73deg
Azi 238.86deg
TVD 672.34m
PK ABG 6.5%
C1 50609ppm
SILTSTONE: m yel brn-dk yel or,dsky yel,occ yel gy,lse-fri,fis,tr glauc pel,tr lith frags
WOB 2.8-33.7klbs
RPM 131-201
GPM 548-596
SPP 2181-2428psi
Rotate
1250
Survey @ 1256.76m
Dev 89.30deg
Azi 236.89deg
TVD 672.07m


Slide
Rotate
03/06/02
WOB 2.0-29.2klbs
RPM 84-204
GPM 581-607
SPP 2402-2594psi
1300
Slide
Rotate
WOB 4.4-32.4klbs
RPM 142-201
GPM 590-600
SPP 2495-2562psi
1350
PK ABG 10.24%
C1 80063ppm
PK ABG 15.14%
C1 96255ppm
SILTY SANDSTONE: m lt gy,olv gy, clr-trnsl qtz grs,tr Fe stn,slt mtx,mod hd-fri aggs,pred lse,vf,occ f,sbang-sbrndd,sbspher,wl srt,com glauc pel, tr glauc flks,tr pyr cmt,tr sid cmt,tr mic flks,p inf por,n fluor
W 1.16sg V64 PV/YP 12/44
Gels 19/25 F 4.6 FC 0.5
Sol 6.0 Sd Tr pH 9.5
Cl 80k Ca 560 KCl 15%
Survey @ 1285.13m
Dev 90.07deg
Azi 235.48deg
TVD 672.23m
SILTSTONE: m yel brn-dk yel or,dsky yel,occ yel gy,lse-fri,fis,tr glauc pel,tr lith frags
Survey @ 1314.2m
Dev 89.29deg
Azi 235.9deg
TVD 672.39m
CALCAREOUS CLAYSTONE: yel gy, v lt gy-m lt gy,sft,amor-sbblky,min glauc pel,tr Forams,tr pyr
Survey @ 1343.52m
Dev 88.48deg
Azi 235.79deg
TVD 672.96m


WOB (klb)
0
10
20
30
40
50
ROP (m/hr)
100
80
60
40
20
0
ROP(Backup) (m/hr)
200
180
160
140
120
100
TOTAL GAS
Total Gas %
0.01
0.1
1
10
CHROMATOGRAPH
Methane
Ethane
Propane
Iso-Butane
Normal-Butane
Iso-Pentane
Normal-Pentane (ppm)
1
10
100
1k
10k
100k
CALC
Calcite
75
50
25
Dolomite
25
50
75
REMARKS

BAKER HUGHES INTEQ

OMV

Company	**OMV Australia**
Well	**Baleen-3, Baleen-3-ST1**
Permit	**VIC/L21**
Region	**Gippsland Sub Basin**
Designation	**Field Development**
Coordinates	**038° 00' 20.99" S Lat** **148° 26' 34.42" E Long**
Ref Elevation	**RT 25 m**
Total Depth	**1352 mRT Baleen-3** **1555mRT Baleen-3-ST1**
Contractor	**Diamond Offshore General Co.**
Rig	**MODU Ocean Bounty**
Type	**Semi-Submersible**

LOG INTERVAL

Depth	**77.5 mRT to 1555 mRT**
Date	**24th May – 04th June 2002**
Scale	**1:500**
Data Engineers	**R. Tena, J. Mcleod, J. Wilson**
Loggers	**E. Spence, M. Dixon, T. Liang**

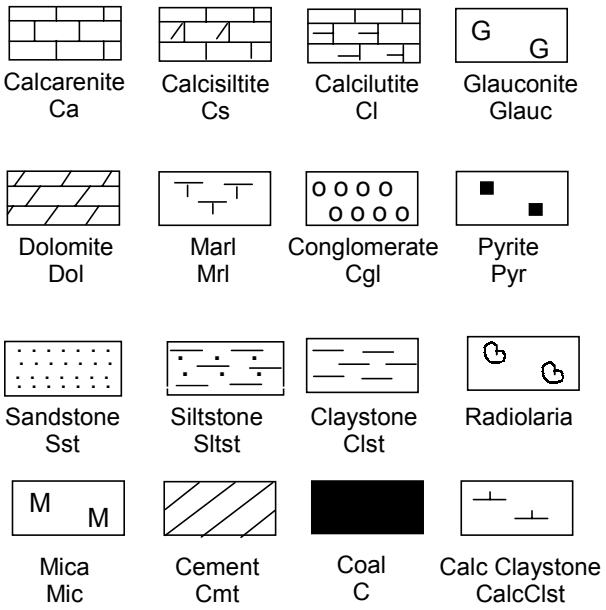
INTEQ LOG SUITE

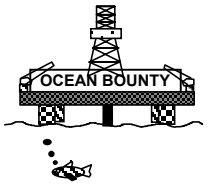
Formation Evaluation
Drilling Data Plot
Gas Ratio Plot
Drilling Data Pressure Plot
Pressure Summary Plot

ABBREVIATIONS

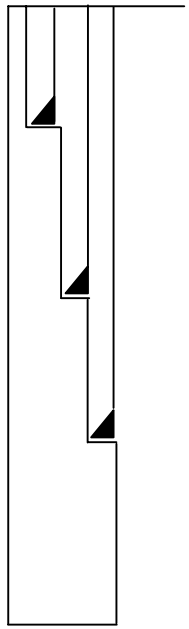
NB	New Bit	MD	Measured Depth
RB	Rerun Bit	GPM	Gallons per Min
CB	Core Bit	PP	Pump Pressure
WOB	Weight on Bit	MW	Mud Weight sg
RPM	Revs per Minute	FV	Funnel Viscosity
FLC	Flow Check	F	Filtrate - API
CR	Circulate Returns	FC	Filter Cake
PR	Poor Returns	PV	Plastic Viscosity
NR	No Returns	YP	Yield Point
BG	Background Gas	Sol	Solids %
WTG	Wiper Trip Gas	Sd	Sand %
TG	Trip Gas	Cl	Chlorides
POG	Pumps Off Gas	RM	Mud Resistivity
CG	Connection Gas	RMF	Filtrate Resistivty
SG	Swab Gas	TVD	True Vertical Depth

LITHOLOGY SYMBOLS





Datum, Drillfloor (DF)
Sealevel 25 mBDF
52.5 (LAT)



Seabed @ 77.5m

Drilling Fluid: Seawater / Hi-vis sweeps

36" hole to 112m
30" x 20" csg set @ 112m

Drilling Fluid: Seawater / Hi-vis sweeps

17.5" hole to 336m
13.375" csg set @ 327.4m

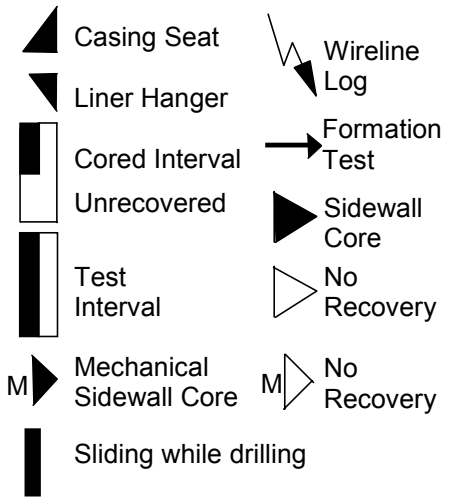
Drilling Fluid:
KCl / PHPA / Glycol

12.25" hole to 871m
9.625" csg set @ 866.1m

Drilling Fluid:
FLO - PRO

8.5" hole to 1352m

Baleen-3-ST1
8.5" hole from 1137m-1555m



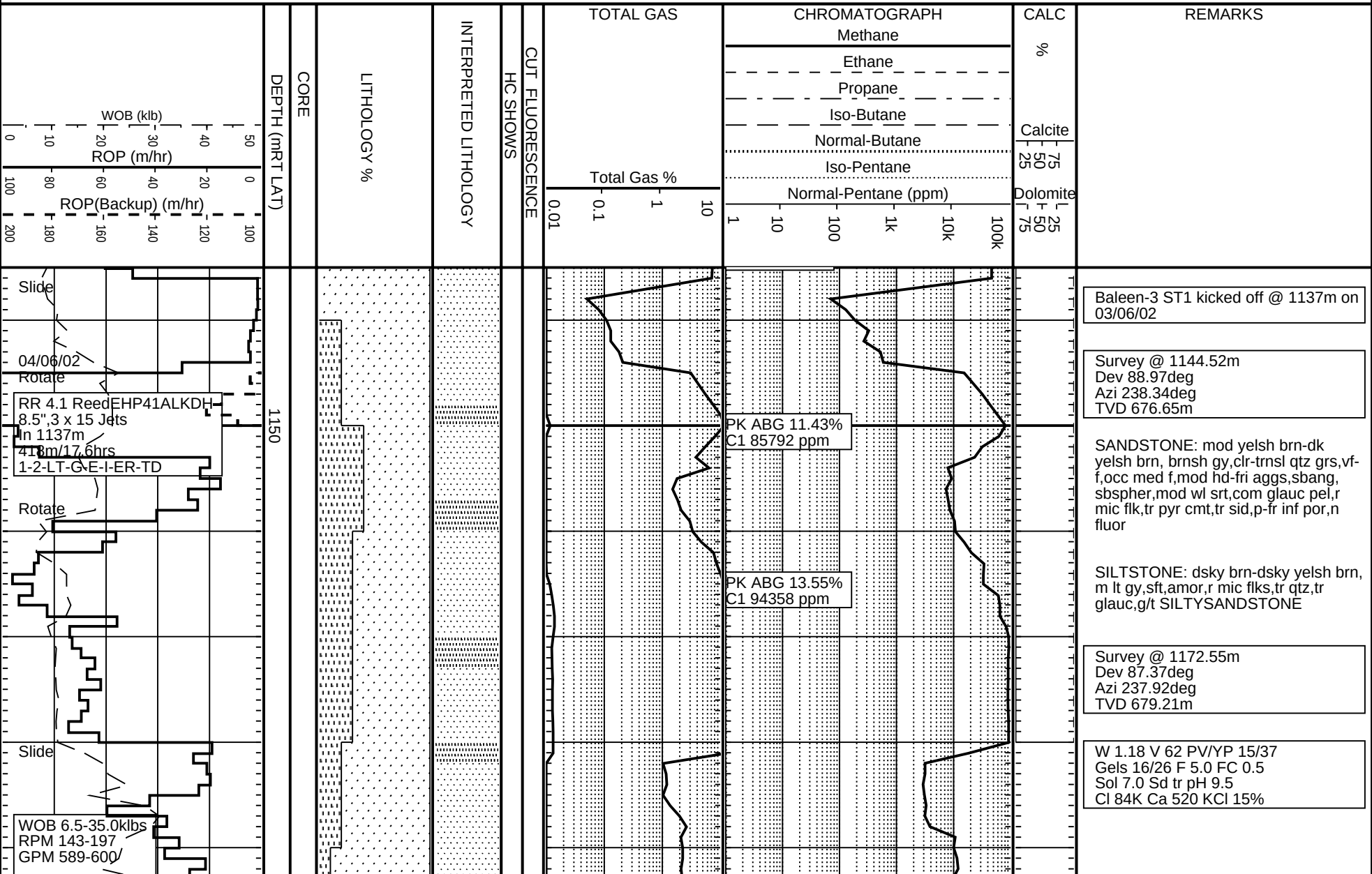
BAKER HUGHES
INTEQ

FORMATION EVALUATION LOG

Baleen-3-ST1

SCALE: 1:500

OMV Australia



Baleen-3 ST1 kicked off @ 1137m on 03/06/02

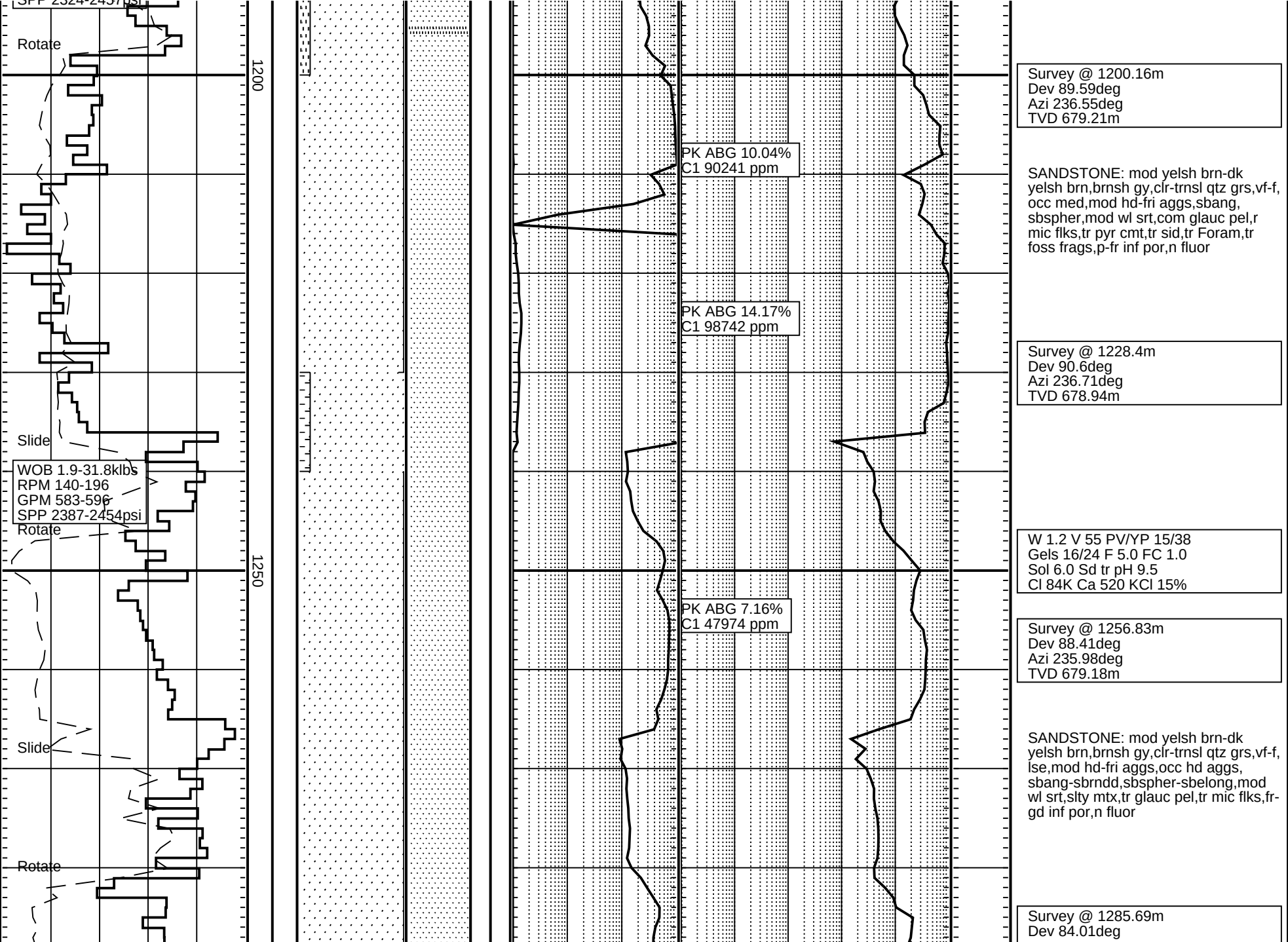
Survey @ 1144.52m
Dev 88.97deg
Azi 238.34deg
TVD 676.65m

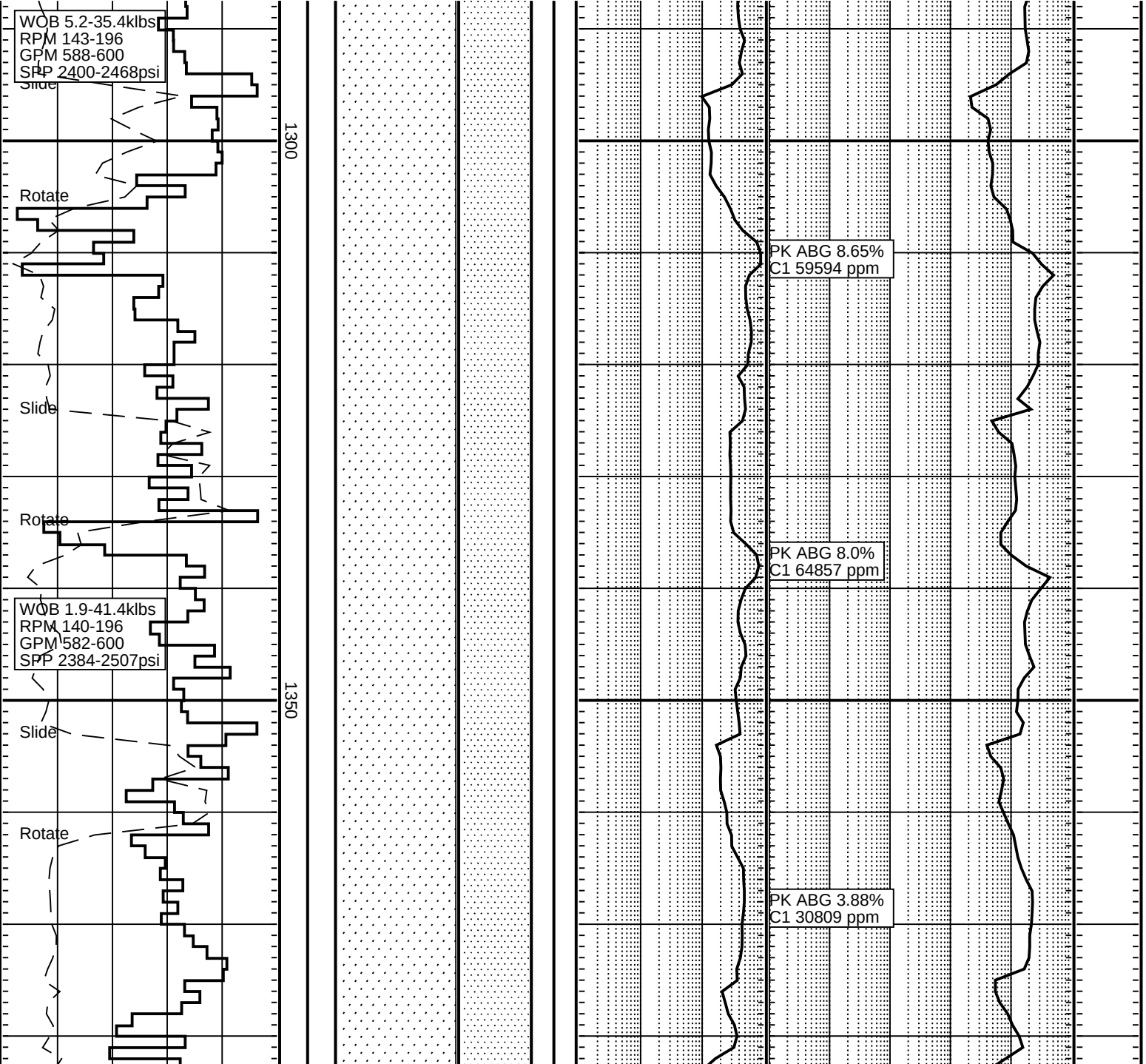
SANDSTONE: mod yelsh brn-dk yelsh brn, brnsh gy,clr-trnsl qtz grs,vf-f,occ med f,mod hd-fri aggs,sbang, sbspher,mod wl srt,com glauc pel,r mic flk,tr pyr cmt,tr sid,p-fr inf por,n fluor

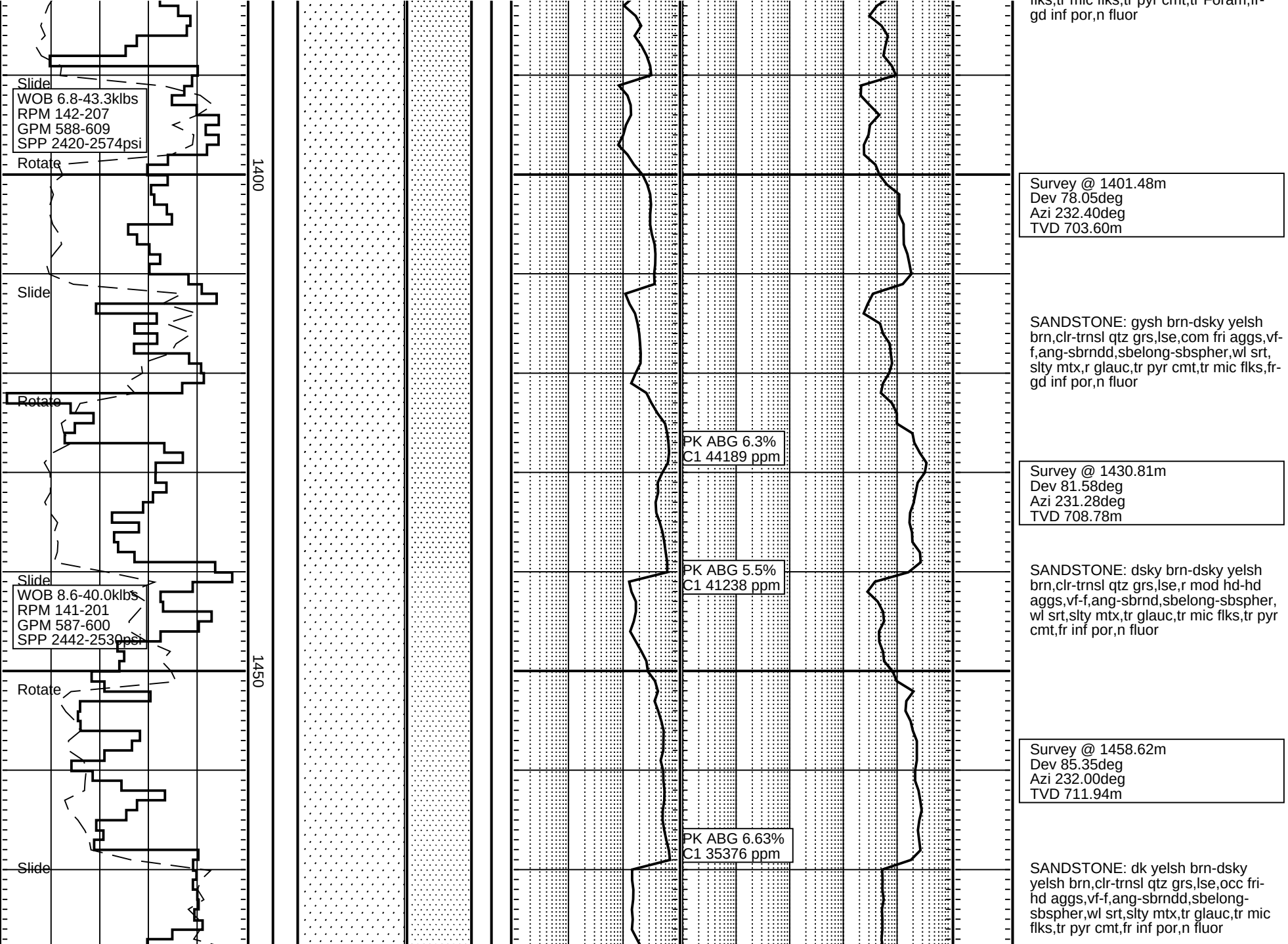
SILTSTONE: dsky brn-dsky yelsh brn, m lt gy,sft,amor,r mic flks,tr qtz,tr glauc,g/t SILTYSANDSTONE

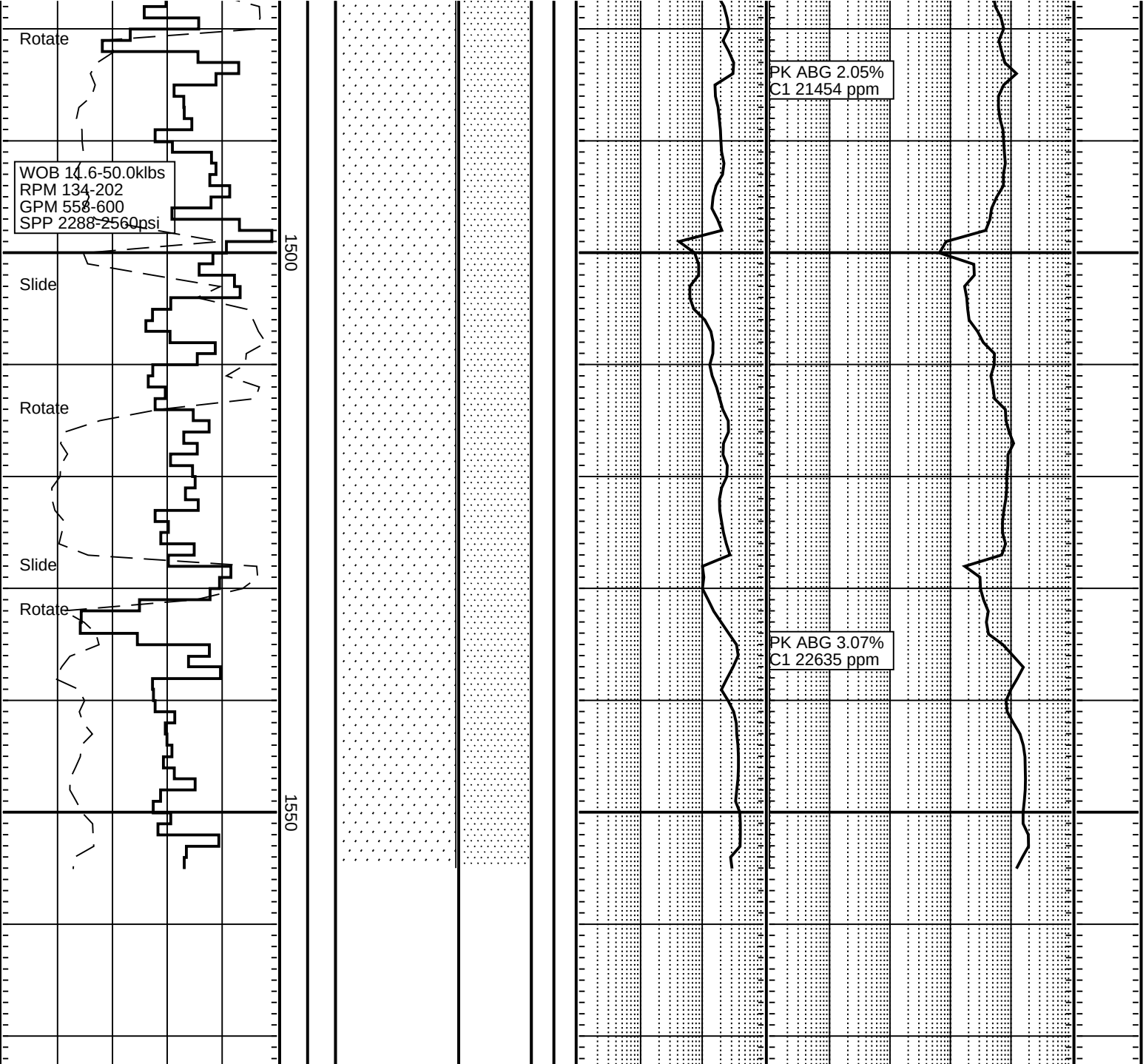
Survey @ 1172.55m
Dev 87.37deg
Azi 237.92deg
TVD 679.21m

W 1.18 V 62 PV/YP 15/37
Gels 16/26 F 5.0 FC 0.5
Sol 7.0 Sd tr pH 9.5
Cl 84K Ca 520 KCl 15%


SPP 2324-2457psi
Rotate
1200
Slide
WOB 1.9-31.8klbs
RPM 140-196
GPM 583-596
SPP 2387-2454psi
Rotate
1250
Slide
Rotate
PK ABG 10.04%
C1 90241 ppm
PK ABG 14.17%
C1 98742 ppm
PK ABG 7.16%
C1 47974 ppm
Survey @ 1200.16m
Dev 89.59deg
Azi 236.55deg
TVD 679.21m
SANDSTONE: mod yelsh brn-dk yelsh brn,brnsh gy,clr-trnsl qtz grs,vf-f, occ med,mod hd-fri aggs,sbang, sbspher,mod wl srt,com glauc pel,r mic flks,tr pyr cmt,tr sid,tr Foram,tr foss frags,p-fr inf por,n fluor
Survey @ 1228.4m
Dev 90.6deg
Azi 236.71deg
TVD 678.94m
W 1.2 V 55 PV/YP 15/38
Gels 16/24 F 5.0 FC 1.0
Sol 6.0 Sd tr pH 9.5
Cl 84K Ca 520 KCl 15%
Survey @ 1256.83m
Dev 88.41deg
Azi 235.98deg
TVD 679.18m
SANDSTONE: mod yelsh brn-dk yelsh brn,brnsh gy,clr-trnsl qtz grs,vf-f, lse,mod hd-fri aggs,occ hd aggs, sbang-sbrndd,sbspher-sbelong,mod wl srt,slty mtx,tr glauc pel,tr mic flks,fr-gd inf por,n fluor
Survey @ 1285.69m
Dev 84.01deg


WOB 5.2-35.4klbs
RPM 143-196
GPM 588-600
SPP 2400-2468psi
Slide
1300
Rotate
Slide
Rotate
WOB 1.9-41.4klbs
RPM 140-196
GPM 582-600
SPP 2384-2507psi
1350
Slide
Rotate
PK ABG 8.65%
C1 59594 ppm
PK ABG 8.0%
C1 64857 ppm
PK ABG 3.88%
C1 30809 ppm
Azi 235.9deg
TVD 681.09m
SANDSTONE: gysh brn,dk yelsh brn, mod ylsh brn,clr-trnsl qtz grs,lse,mod hd-fri aggs,occ hd aggs,vf-f,sbang-sbrnd,sbspher,occ sbelong,mod wl srt, tr glauc pel,tr mic flks,fr-gd inf por,n fluor
Survey @ 1315.04m
Dev 80.72deg
Azi 234.58deg
TVD 684.99m
SANDSTONE: mod yelsh brn-dk yelsh brn, brnsh gy,clr-trnsl,Fe stn qtz grs,vf-f,pred vf,lse,mod hd-hd aggs, pred mod hd,occ hd aggs,sbang-sbrndd,sbspher,occ sbelong,mod wl srt,slty mtx,r glauc pel,tr glauc flks,tr mic flks,tr pyr,p vis por,n fluor
Survey @ 1344.21m
Dev 77.95deg
Azi 233.45deg
TVD 690.39m
W 1.21 V 57 PV/YP 16/35
Gels 15/25 F 5.0 FC 1.0
Sol 6.0 Sd tr pH 9.5
Cl 88K Ca 520 KCl 15%
Survey @ 1372.91m
Dev 75.34deg
Azi 232.29deg
TVD 697.02m
SANDSTONE: mod yelsh brn-dk yelsh brn,brnsh gy,clr-trnsl,Fe stn qtz grs,vf-f,pred vf,lse,occ mod hd-hd aggs,sbang-sbrndd,sbspher-sbelong, mod wl srt,slty mtx,r glauc pel,tr glauc


Slide
WOB 6.8-43.3klbs
RPM 142-207
GPM 588-609
SPP 2420-2574psi
Rotate
1400
Slide
Rotate
Slide
WOB 8.6-40.0klbs
RPM 141-201
GPM 587-600
SPP 2442-2530psi
1450
Rotate
Slide
PK ABG 6.3%
C1 44189 ppm
PK ABG 5.5%
C1 41238 ppm
PK ABG 6.63%
C1 35376 ppm
flks,tr mic flks,tr pyr cmt,tr Foram,fr-gd inf por,n fluor
Survey @ 1401.48m
Dev 78.05deg
Azi 232.40deg
TVD 703.60m
SANDSTONE: gysh brn-dsky yelsh brn,clr-trnsl qtz grs,lse,com fri aggs,vf-f,ang-sbrndd,sbelong-sbspher,wl srt, slty mtx,r glauc,tr pyr cmt,tr mic flks,fr-gd inf por,n fluor
Survey @ 1430.81m
Dev 81.58deg
Azi 231.28deg
TVD 708.78m
SANDSTONE: dsky brn-dsky yelsh brn,clr-trnsl qtz grs,lse,r mod hd-hd aggs,vf-f,ang-sbrnd,sbelong-sbspher, wl srt,slty mtx,tr glauc,tr mic flks,tr pyr cmt,fr inf por,n fluor
Survey @ 1458.62m
Dev 85.35deg
Azi 232.00deg
TVD 711.94m
SANDSTONE: dk yelsh brn-dsky yelsh brn,clr-trnsl qtz grs,lse,occ fri-hd aggs,vf-f,ang-sbrndd,sbelong-sbspher,wl srt,slty mtx,tr glauc,tr mic flks,tr pyr cmt,fr inf por,n fluor



Survey @ 1488.63m
Dev 89.87deg
Azi 231.93deg
TVD 713.20m

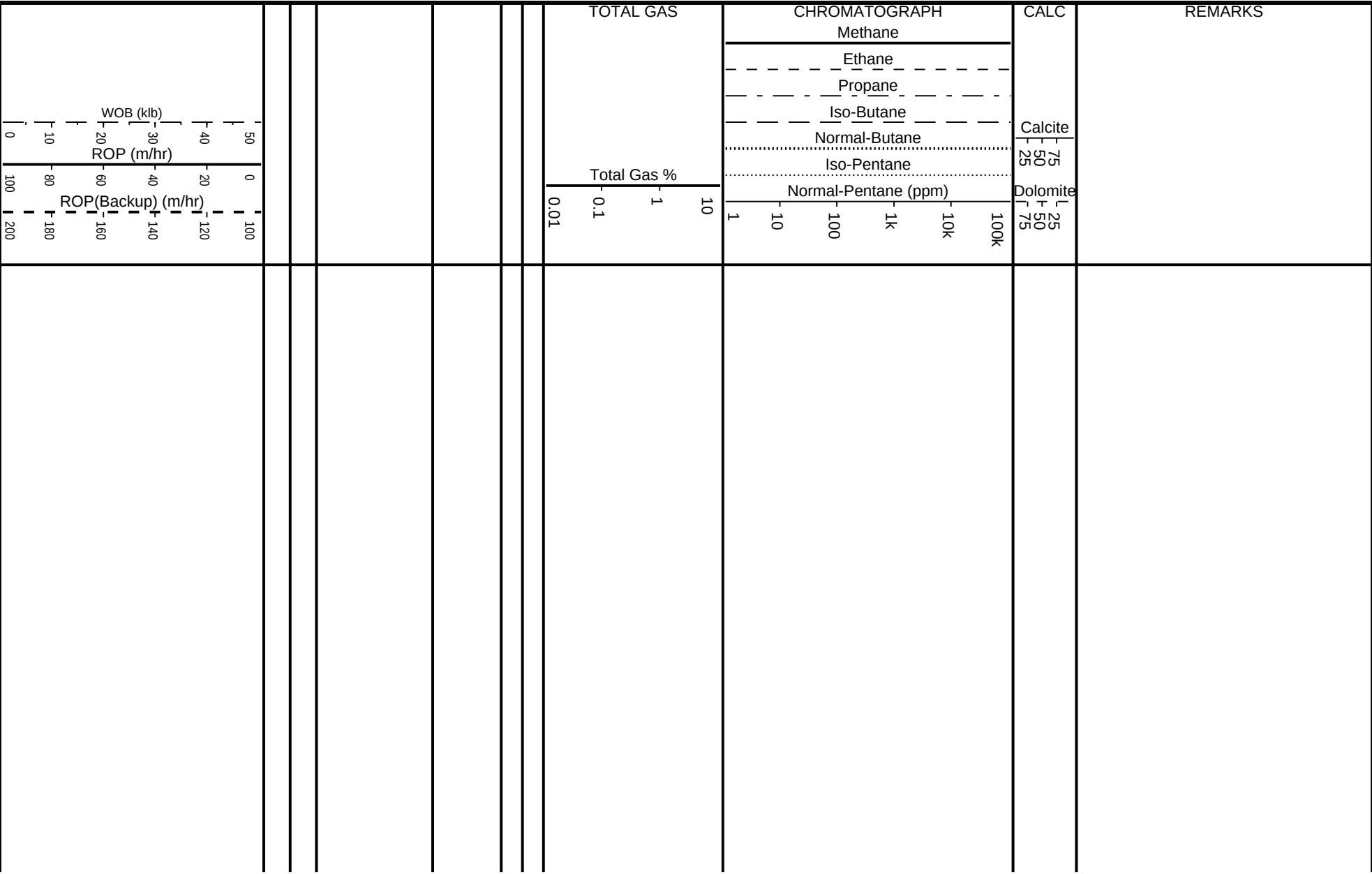
SANDSTONE: dk yelsh brn-dsky yelsh brn,clr-trnsl qtz grs,lse,occ fri-hd aggs,vf-f,ang-sbrndd,sbelong-sbspher,wl srt,slty mtx,abdt glauc,tr mic flks,tr pyr cmt,fr inf por,n fluor

Survey @ 1517.26m
Dev 93.80deg
Azi 232.08deg
TVD 712.28m

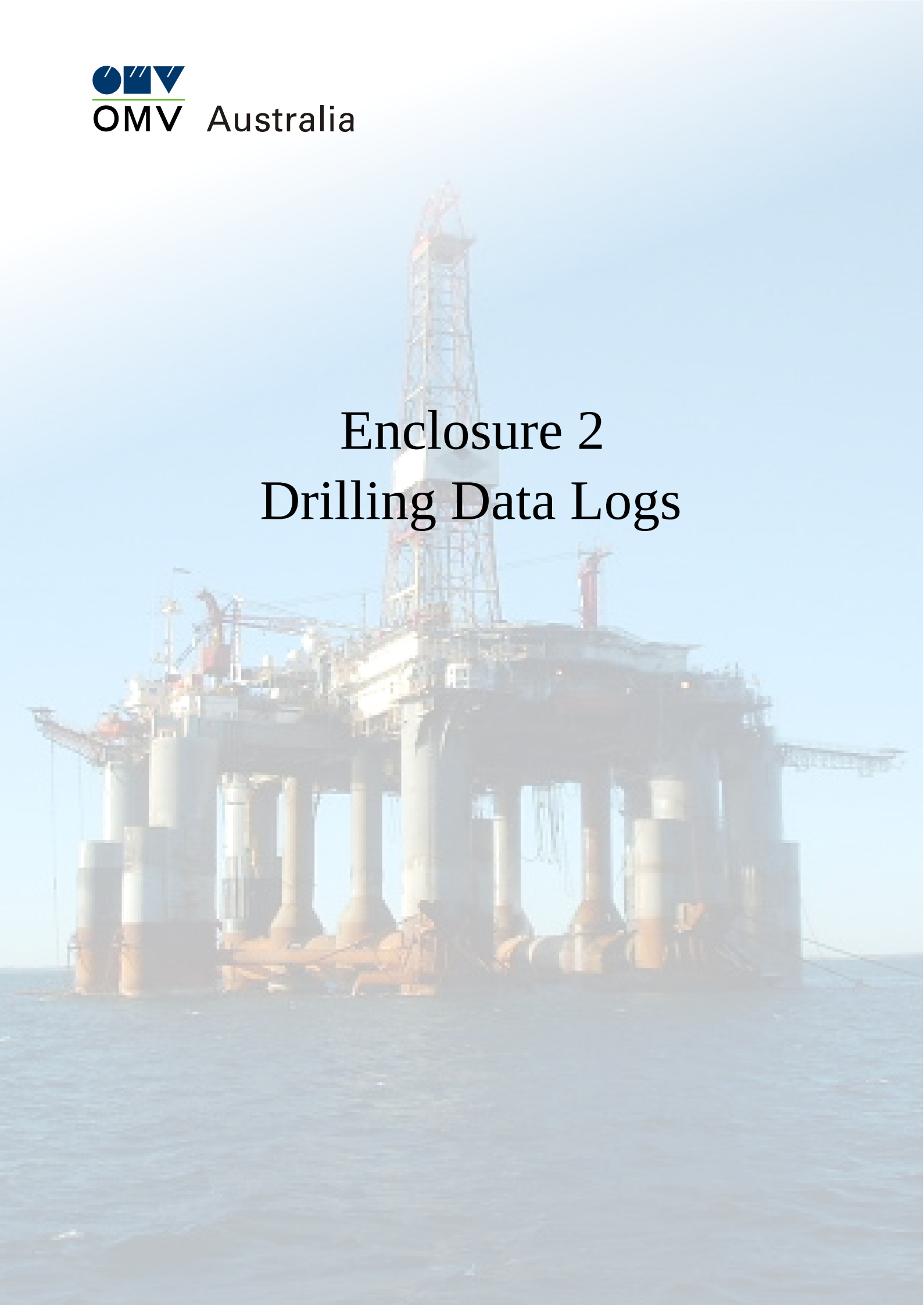
W 1.22 V 59 PV/YP 15/39
Gels 17/25 F 4.8 FC 1.0
Sol 7.0 Sd tr pH 9.0
Cl 90K Ca 800 KCl 16%

Survey @ 1544.19m
Dev 95.32deg
Azi 232.23deg
TVD 710.14m

Reached 1555m TD @ 20:45hrs 04 June 2002


WOB (klb)
0
10
20
30
40
50
ROP (m/hr)
100
80
60
40
20
0
ROP(Backup) (m/hr)
200
180
160
140
120
100
TOTAL GAS
Total Gas %
0.01
0.1
1
10
CHROMATOGRAPH
Methane
Ethane
Propane
Iso-Butane
Normal-Butane
Iso-Pentane
Normal-Pentane (ppm)
1
10
100
1k
10k
100k
CALC
Calcite
75
50
25
Dolomite
25
50
75
REMARKS

OMV Australia



Enclosure 2
Drilling Data Logs

BAKER HUGHES INTEQ

OMV

Company	**OMV Australia**
Well	**Baleen-3, Baleen-3-ST1**
Permit	**VIC/L21**
Region	**Gippsland Sub Basin**
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Type	**Semi-Submersible**

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Data Engineers	**R. Tena, J. Mcleod, J. Wilson**
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INTEQ LOG SUITE

Formation Evaluation
Drilling Data Plot
Gas Ratio Plot
Drilling Data Pressure Plot
Pressure Summary Plot

ABBREVIATIONS

NB	New Bit	MD	Measured Depth
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CB	Core Bit	PP	Pump Pressure
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POG	Pumps Off Gas	RM	Mud Resistivity
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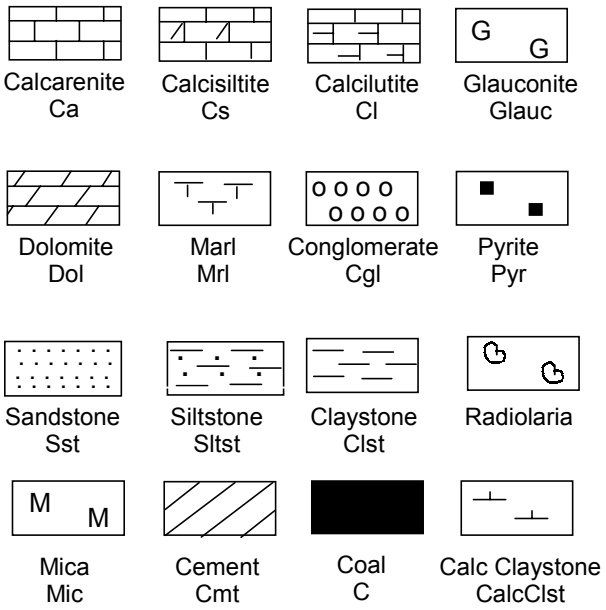
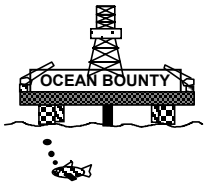
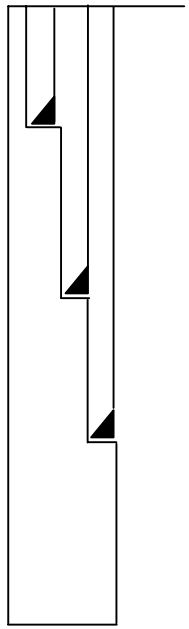
SG	Swab Gas	TVD	True Vertical Depth

LITHOLOGY SYMBOLS





Datum, Drillfloor (DF)
Sealevel 25 mBDF
52.5 (LAT)



Seabed @ 77.5m

Drilling Fluid: Seawater / Hi-vis sweeps

36" hole to 112m
30" x 20" csg set @ 112m

Drilling Fluid: Seawater / Hi-vis sweeps

17.5" hole to 336m
13.375" csg set @ 327.4m

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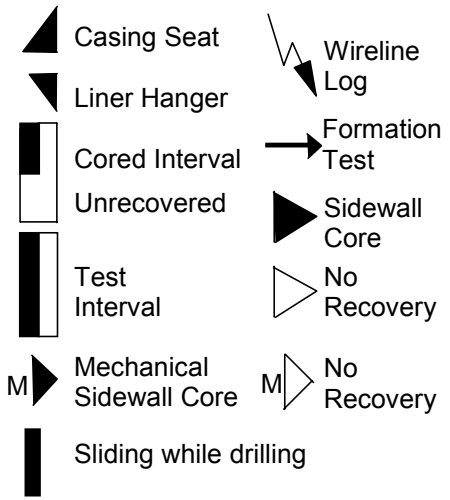
8.5" hole to 1352m

Baleen-3-ST1
8.5" hole from 1137m-1555m



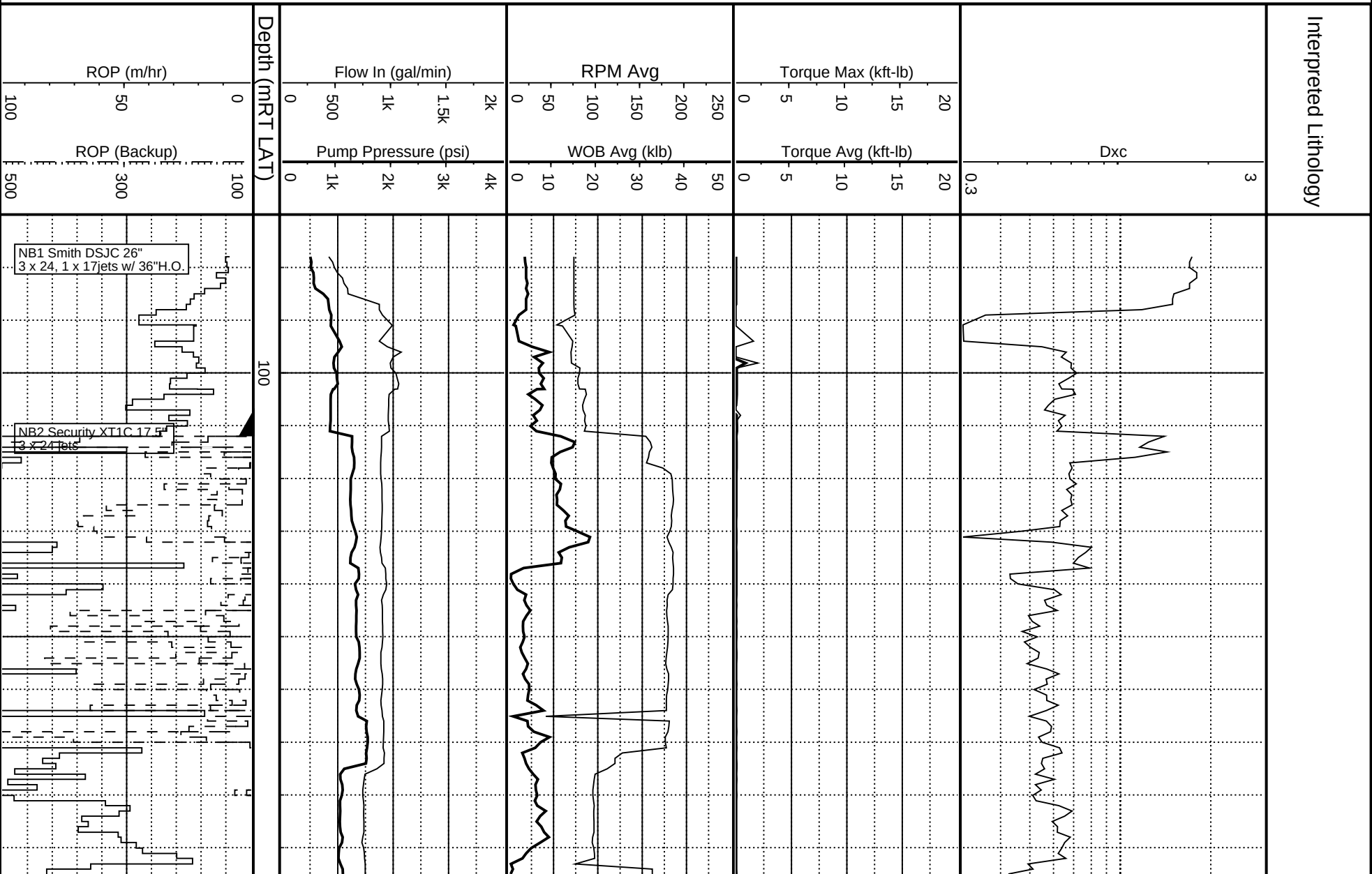
BAKER HUGHES
INTEQ

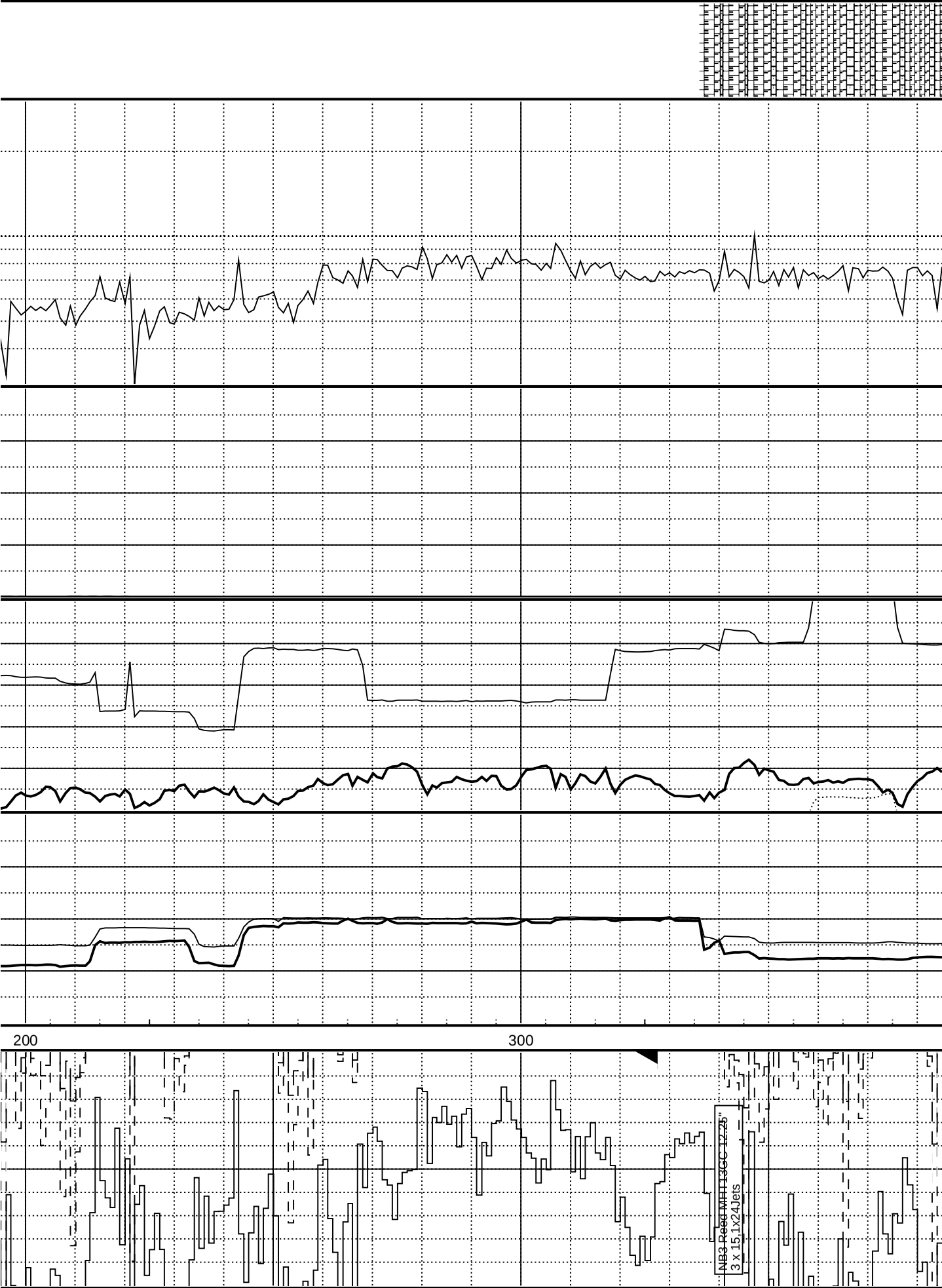
Drilling Data Plot

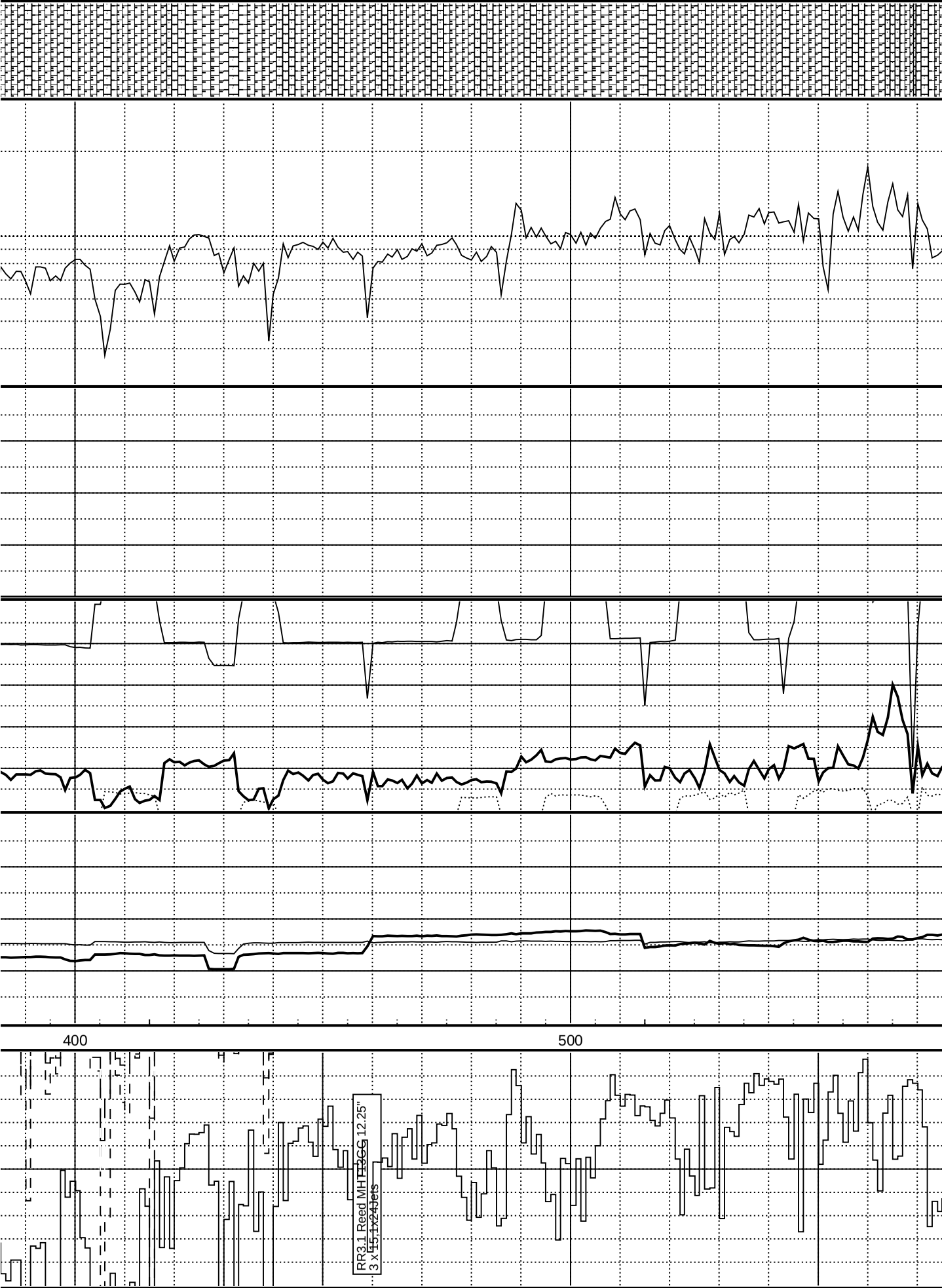
Baleen-3

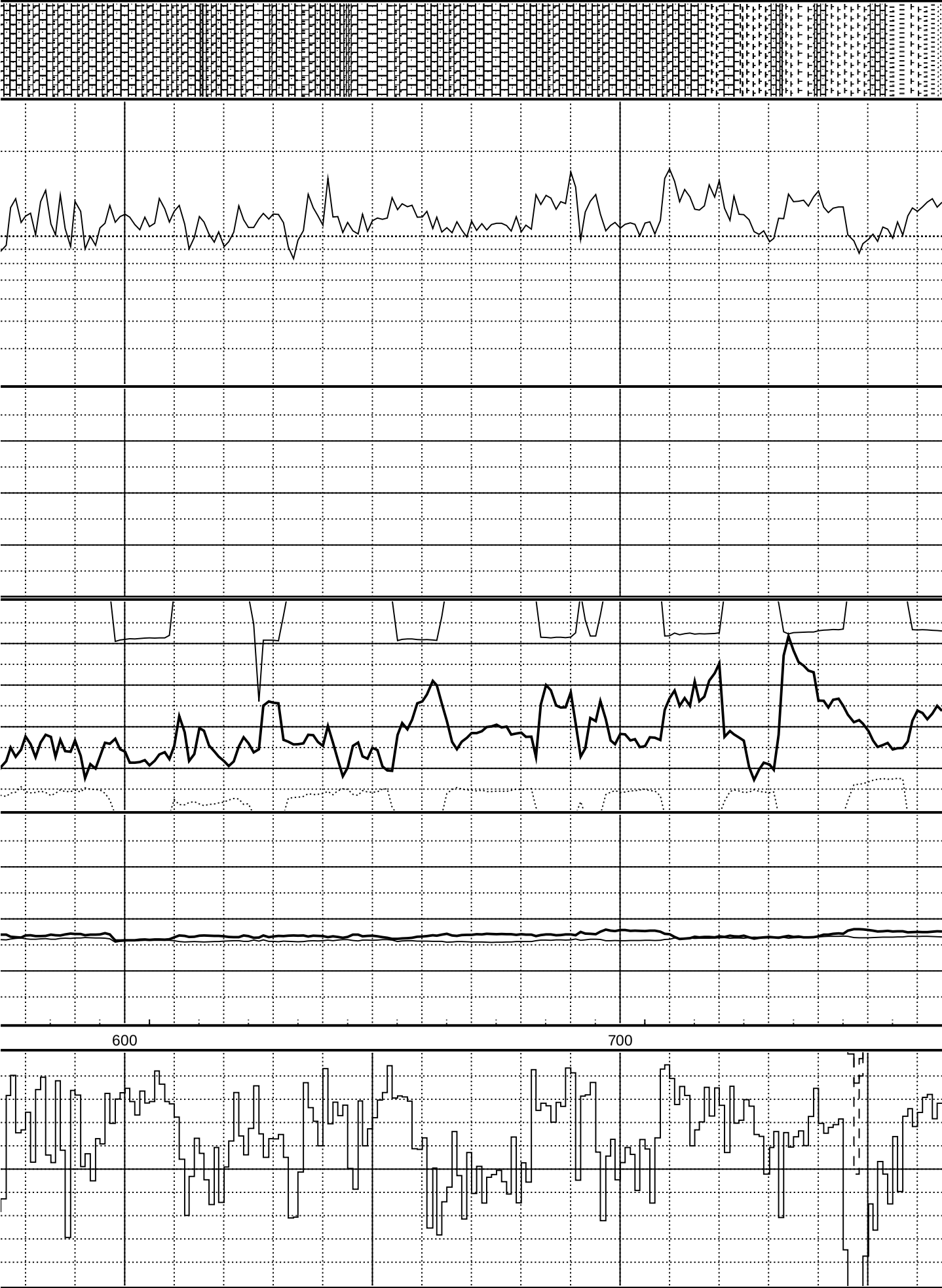
Scale 1 : 1000.0

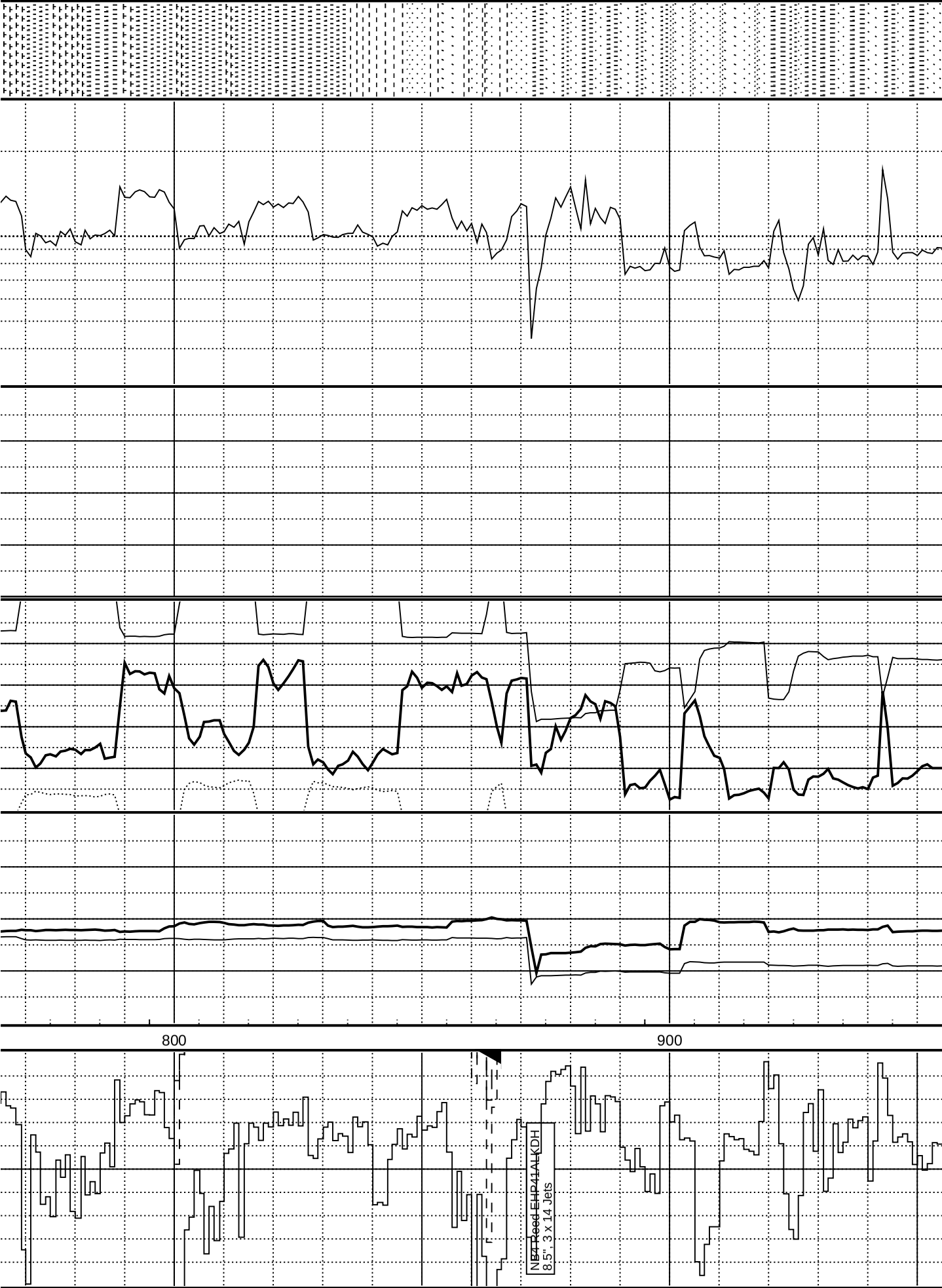
OMV Australia

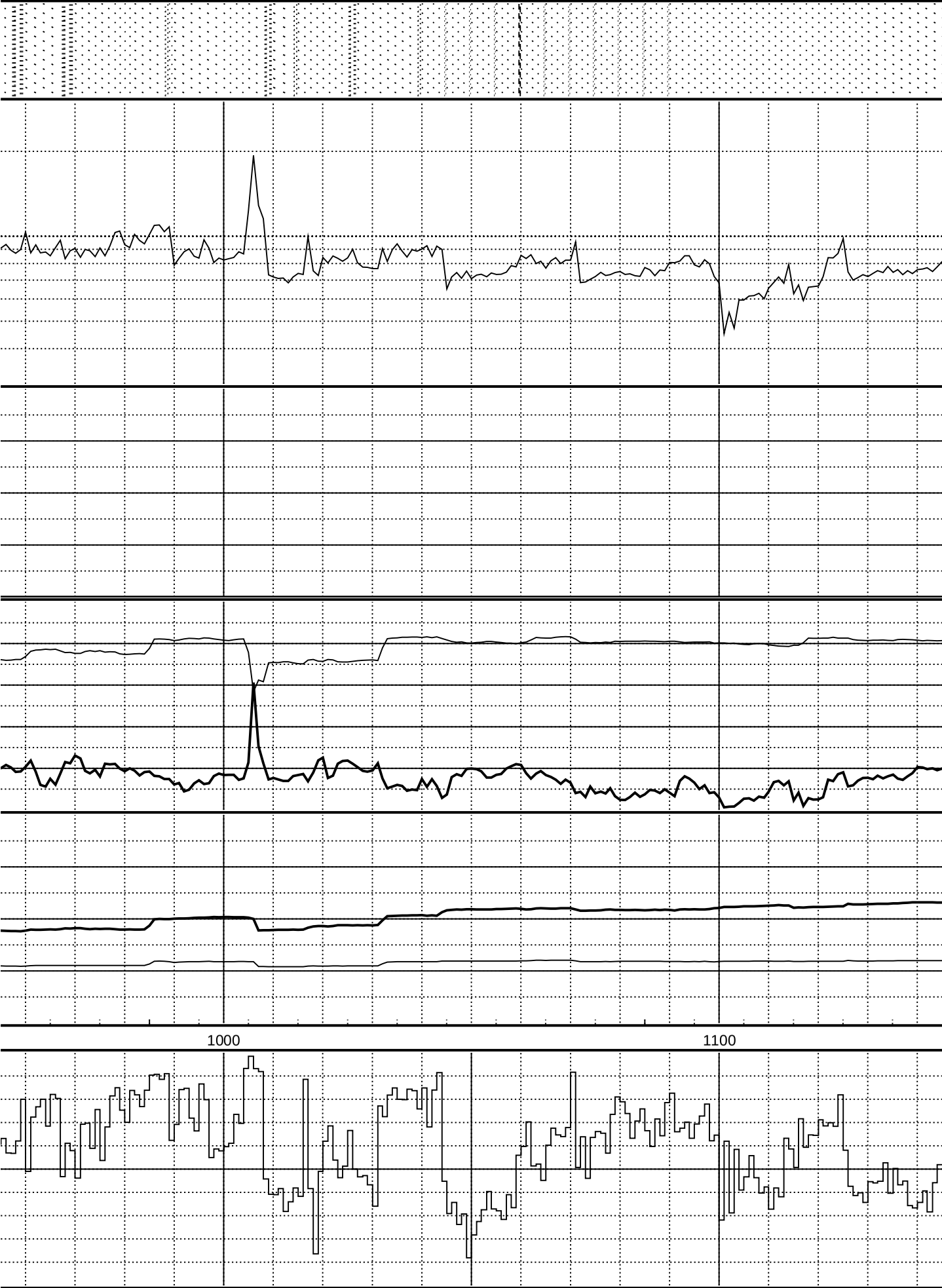


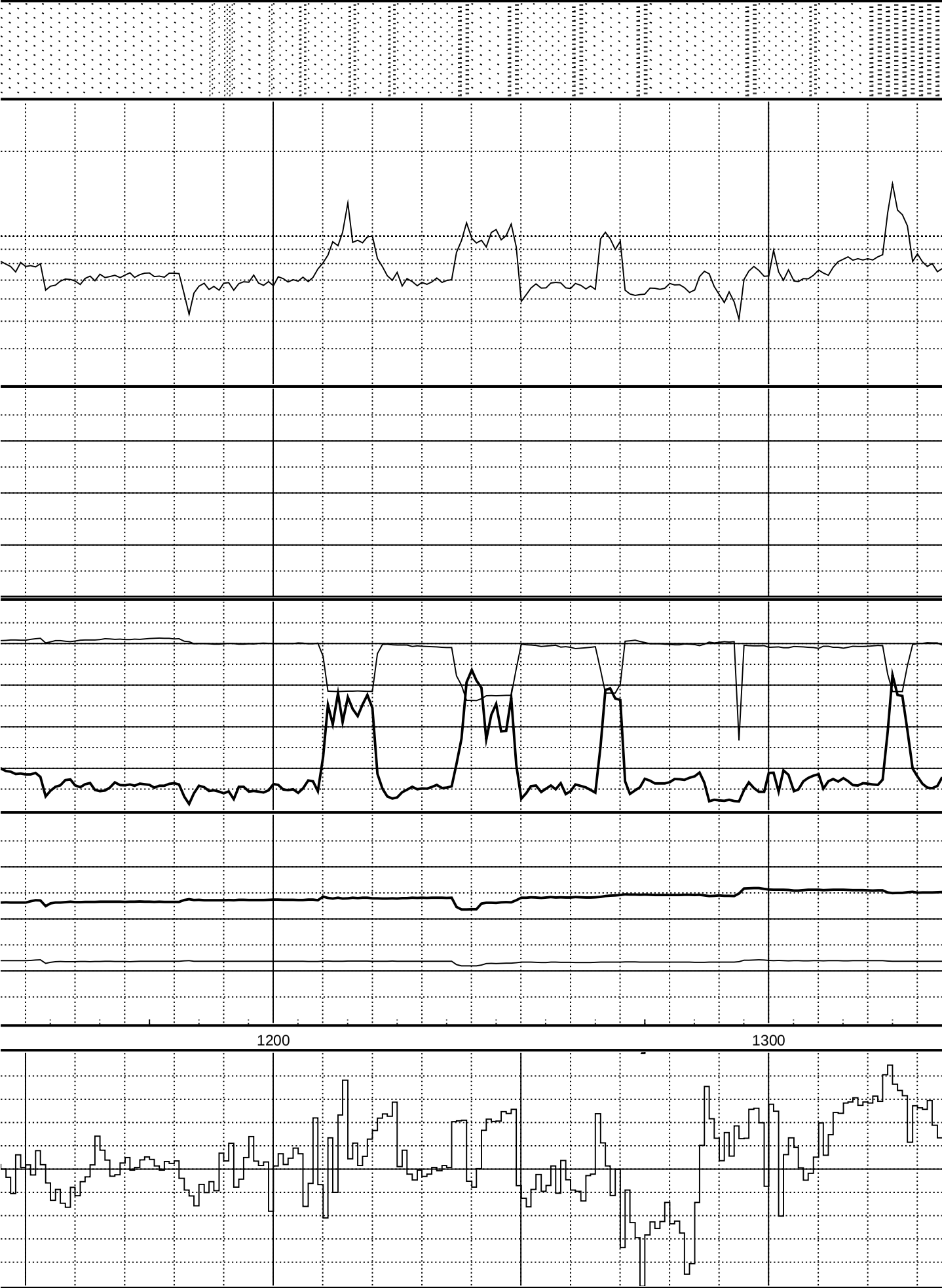

200
300
NB3 Reed MH 13CC 12.25"
3 x 15.1x24Jets

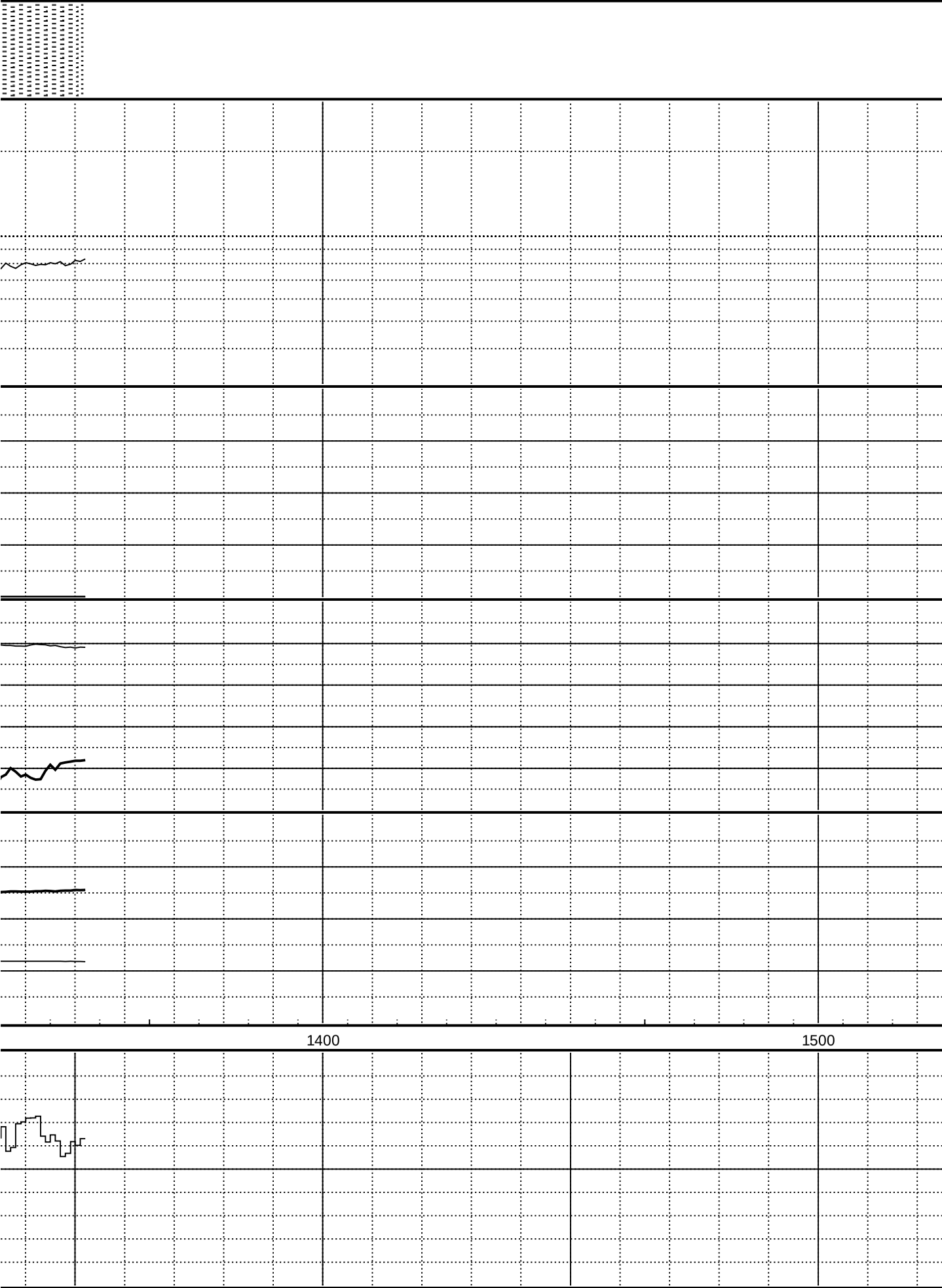

400
500
RR3.1 Reed MHT36CG 12.25"
3 x 15.1x24Jets


600
700


800
900
NB4 Reed EHP41ALKDH
8.5" 3 x 14 Jets


1000
1100


1200
1300


1400
1500

Interpreted Lithology

Dxc
0.3
3

Torque Max (kft-lb)
0
5
10
15
20

Torque Avg (kft-lb)
0
5
10
15
20

RPM Avg
0
50
100
150
200
250

WOB Avg (klb)
0
10
20
30
40
50

Flow In (gal/min)
0
500
1k
1.5k
2k

Pump Ppressure (psi)
0
1k
2k
3k
4k

Depth (mRT LAT)

ROP (m/hr)
0
50
100

ROP (Backup)
100
300
500

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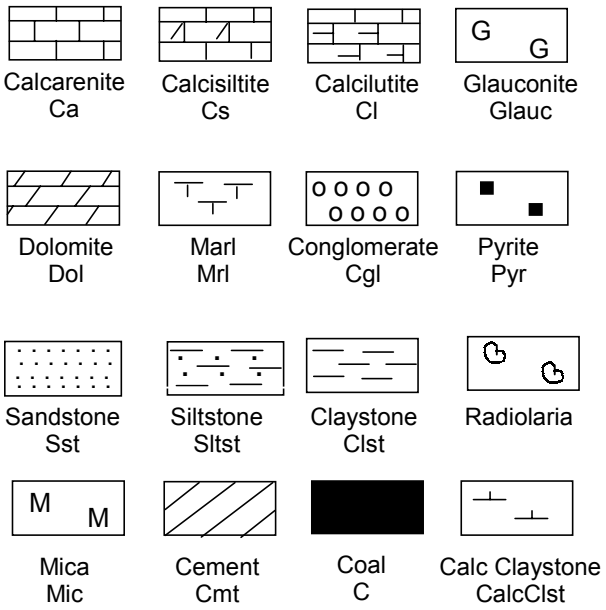
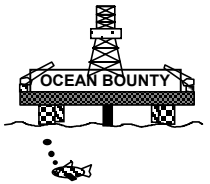
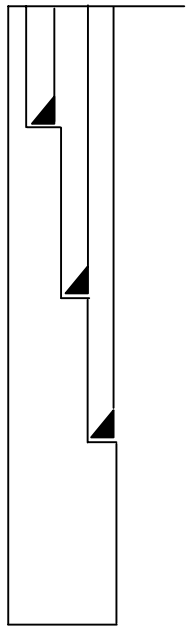
SG	Swab Gas	TVD	True Vertical Depth

LITHOLOGY SYMBOLS





Datum, Drillfloor (DF)
Sealevel 25 mBDF
52.5 (LAT)



Seabed @ 77.5m

Drilling Fluid: Seawater / Hi-vis sweeps

36" hole to 112m
30" x 20" csg set @ 112m

Drilling Fluid: Seawater / Hi-vis sweeps

17.5" hole to 336m
13.375" csg set @ 327.4m

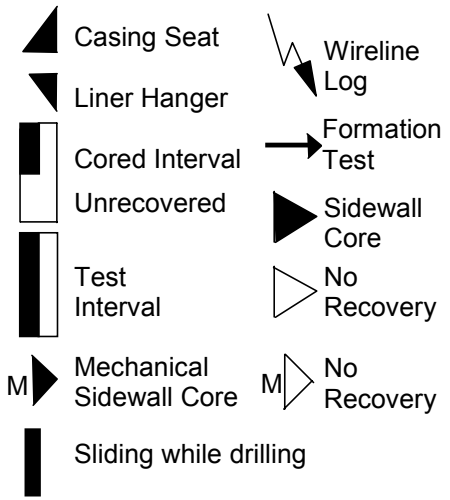
Drilling Fluid:
KCl / PHPA / Glycol

12.25" hole to 871m
9.625" csg set @ 866.1m

Drilling Fluid:
FLO - PRO

8.5" hole to 1352m

Baleen-3-ST1
8.5" hole from 1137m-1555m



BAKER HUGHES
INTEQ

Drilling Data Plot

Baleen-3-ST1

Scale 1 : 1000.0

OMV Australia

Interpreted Lithology

Dxc
0.3 3

Torque Max (kft-lb)
0 5 10 15 20

Torque Avg (kft-lb)
0 5 10 15 20

RPM Avg
0 50 100 150 200 250

WOB Avg (klb)
0 10 20 30 40 50

Flow In (gal/min)
0 500 1k 1.5k 2k

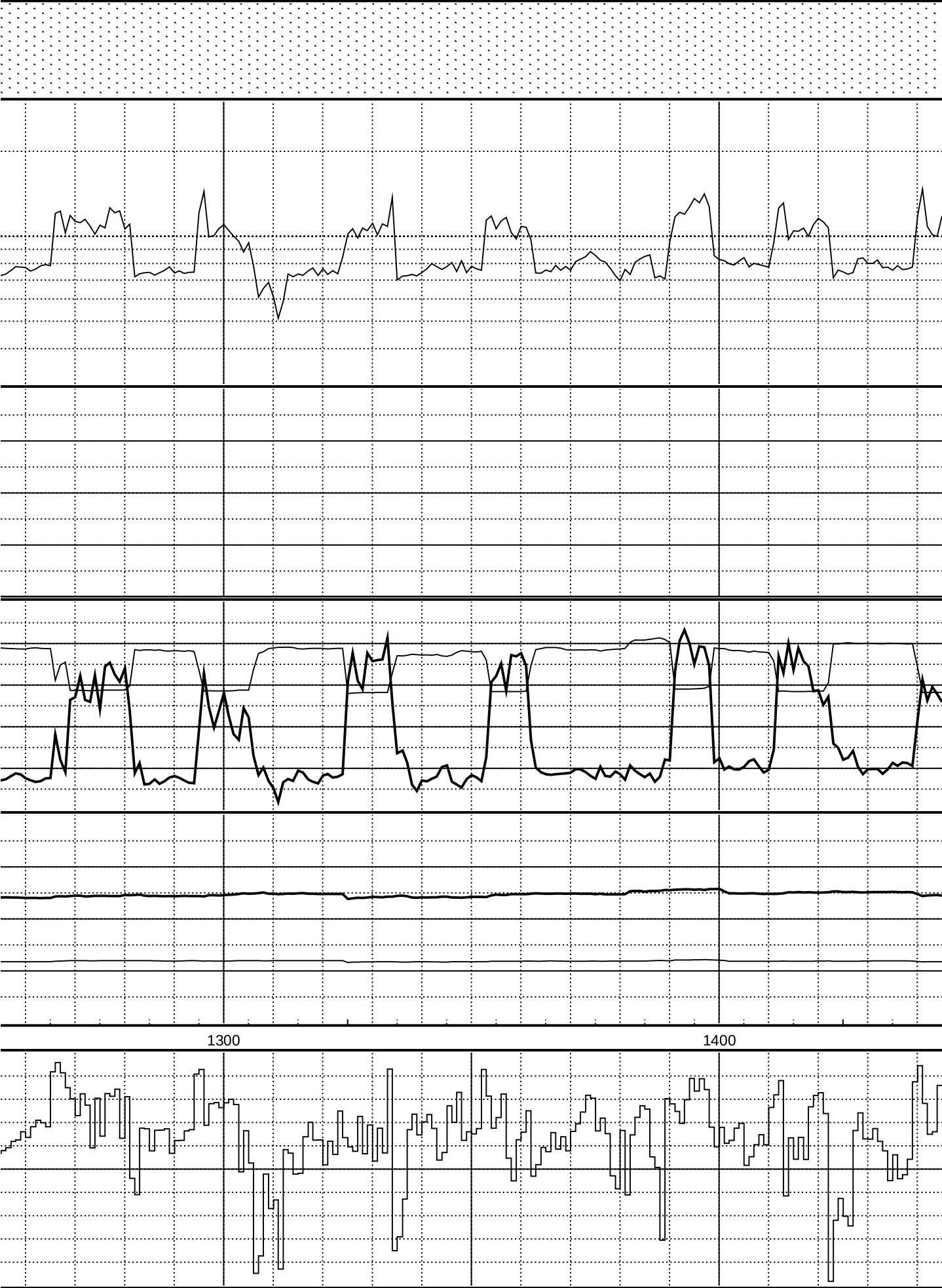
Pump Ppressure (psi)
0 1k 2k 3k 4k

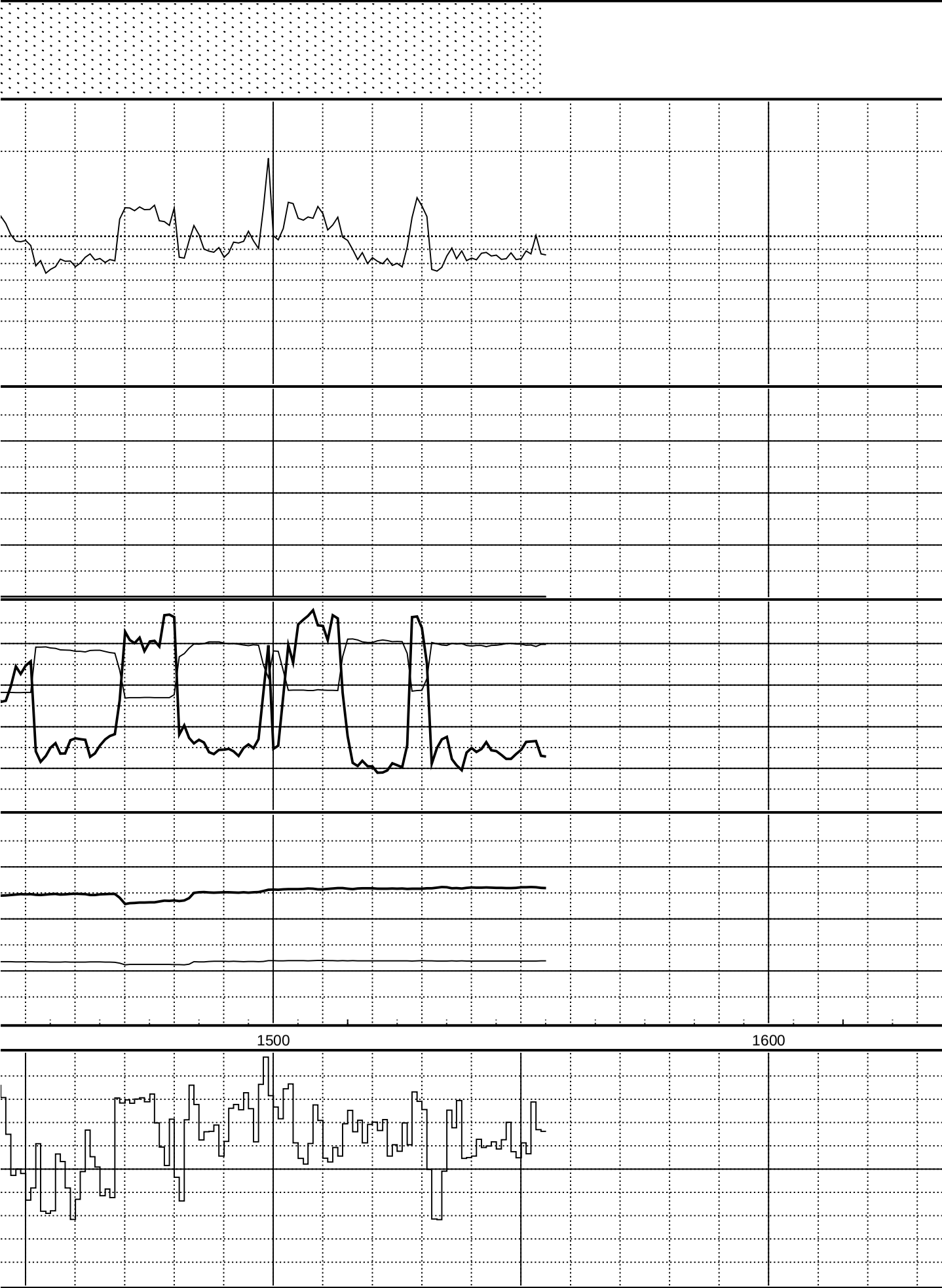
Depth (mRT LAT)
1200

ROP (m/hr)
100 50 0

ROP (Backup)
500 300 100

RR 4.1 ReedEHP41ALKDH
8.5",3 x 15 Jets


1300
1400


1500
1600

Interpreted Lithology

Dxc
0.3
3

Torque Max (kft-lb)
0
5
10
15
20

Torque Avg (kft-lb)
0
5
10
15
20

RPM Avg
0
50
100
150
200
250

WOB Avg (klb)
0
10
20
30
40
50

Flow In (gal/min)
0
500
1k
1.5k
2k

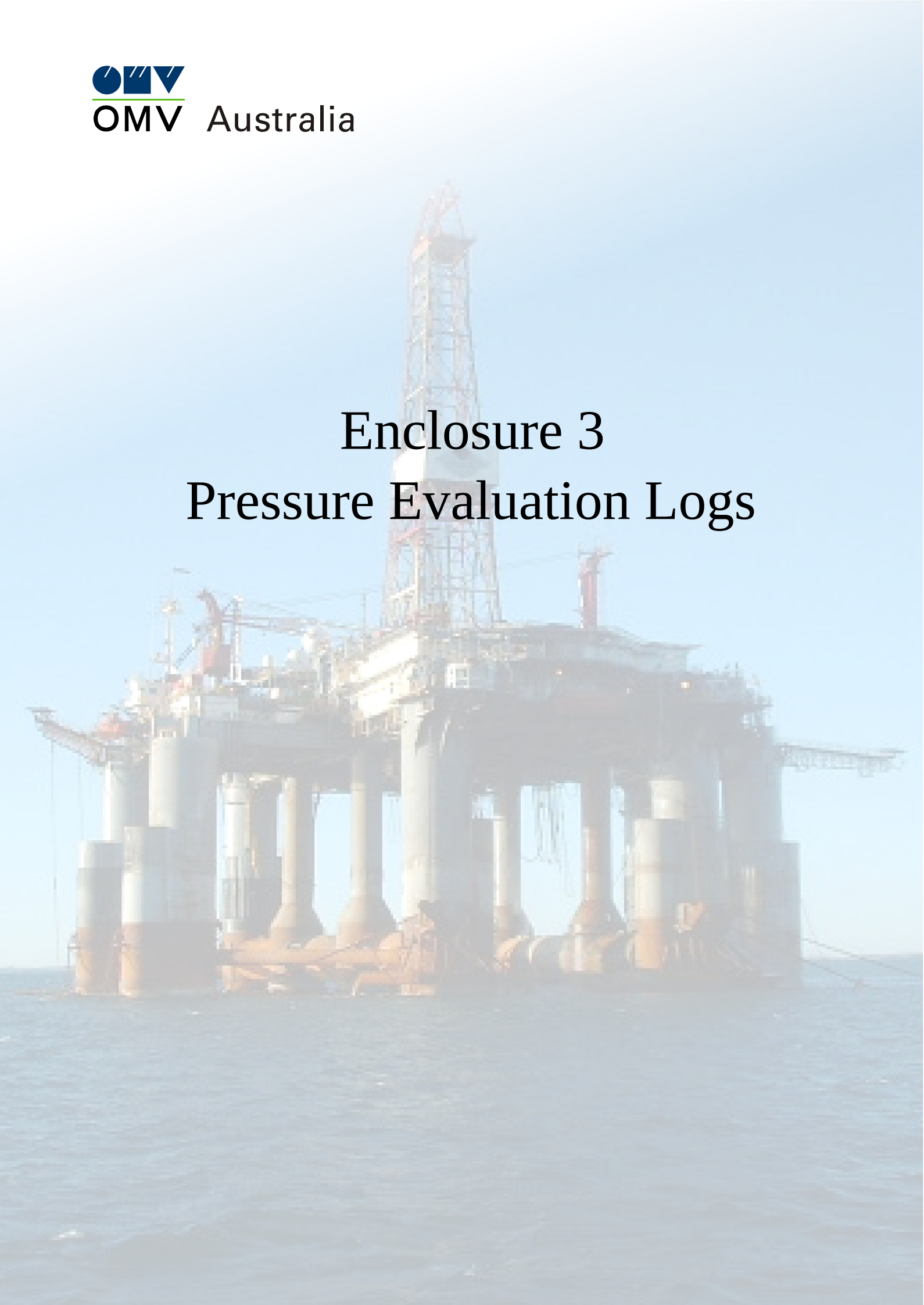
Pump Ppressure (psi)
0
1k
2k
3k
4k

Depth (mRT LAT)

ROP (m/hr)
0
50
100

ROP (Backup)
100
300
500

OMV Australia



Enclosure 3
Pressure Evaluation Logs

BAKER HUGHES INTEQ

OMV

Company	**OMV Australia**
Well	**Baleen-3, Baleen-3-ST1**
Permit	**VIC/L21**
Region	**Gippsland Sub Basin**
Designation	**Field Development**
Coordinates	**038° 00' 20.99" S Lat** **148° 26' 34.42" E Long**
Ref Elevation	**RT 25 m**
Total Depth	**1352 mRT Baleen-3** **1555mRT Baleen-3-ST1**
Contractor	**Diamond Offshore General Co.**
Rig	**MODU Ocean Bounty**
Type	**Semi-Submersible**

LOG INTERVAL

Depth	**77.5 mRT to 1555 mRT**
Date	**24th May – 04th June 2002**
Scale	**1:500**
Data Engineers	**R. Tena, J. Mcleod, J. Wilson**
Loggers	**E. Spence, M. Dixon, T. Liang**

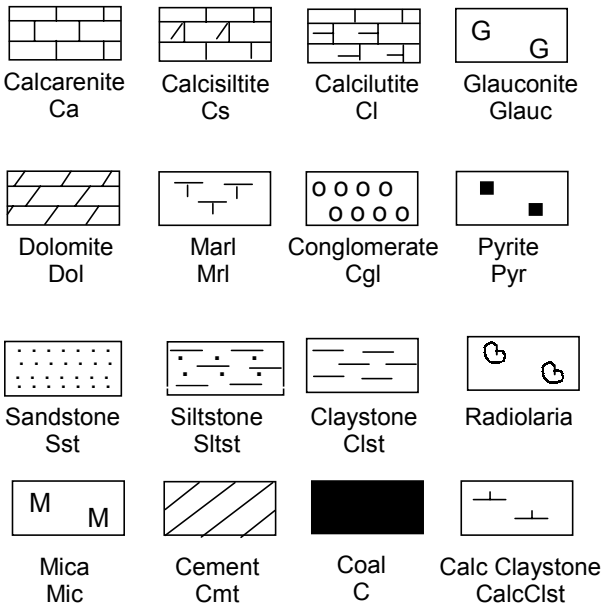
INTEQ LOG SUITE

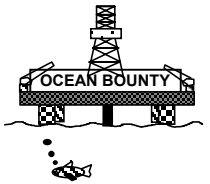
Formation Evaluation
Drilling Data Plot
Gas Ratio Plot
Drilling Data Pressure Plot
Pressure Summary Plot

ABBREVIATIONS

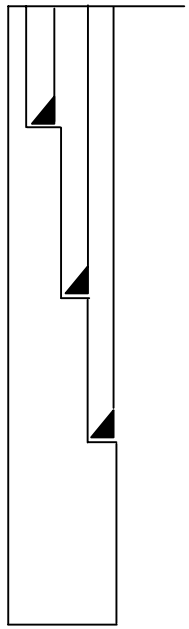
NB	New Bit	MD	Measured Depth
RB	Rerun Bit	GPM	Gallons per Min
CB	Core Bit	PP	Pump Pressure
WOB	Weight on Bit	MW	Mud Weight sg
RPM	Revs per Minute	FV	Funnel Viscosity
FLC	Flow Check	F	Filtrate - API
CR	Circulate Returns	FC	Filter Cake
PR	Poor Returns	PV	Plastic Viscosity
NR	No Returns	YP	Yield Point
BG	Background Gas	Sol	Solids %
WTG	Wiper Trip Gas	Sd	Sand %
TG	Trip Gas	Cl	Chlorides
POG	Pumps Off Gas	RM	Mud Resistivity
CG	Connection Gas	RMF	Filtrate Resistivty
SG	Swab Gas	TVD	True Vertical Depth

LITHOLOGY SYMBOLS





Datum, Drillfloor (DF)
Sealevel 25 mBDF
52.5 (LAT)



Seabed @ 77.5m

Drilling Fluid: Seawater / Hi-vis sweeps

36" hole to 112m
30" x 20" csg set @ 112m

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17.5" hole to 336m
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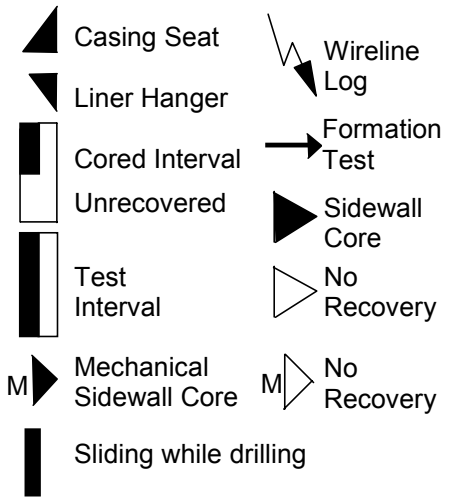
8.5" hole to 1352m

Baleen-3-ST1
8.5" hole from 1137m-1555m



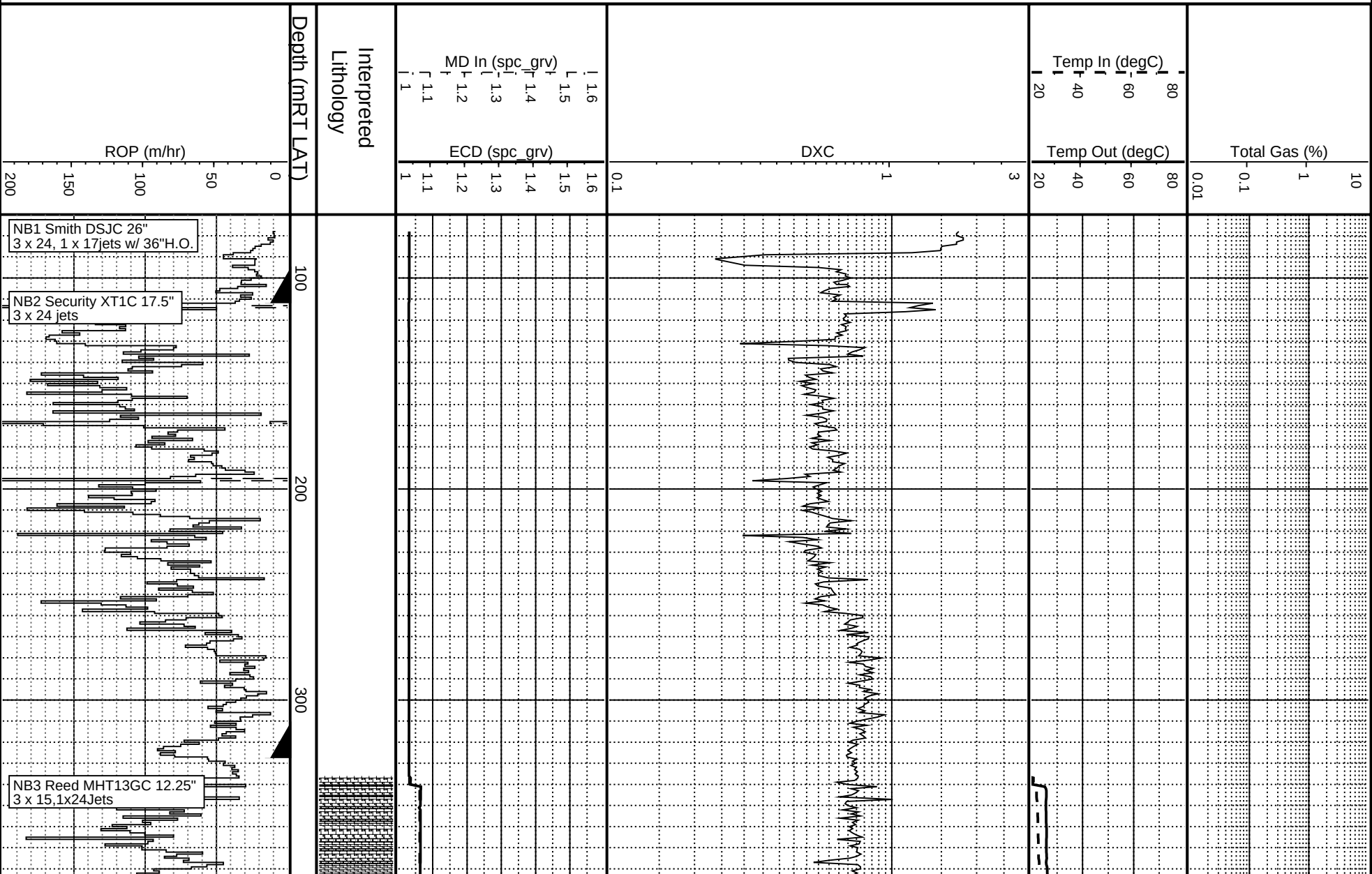
BAKER HUGHES
INTEQ

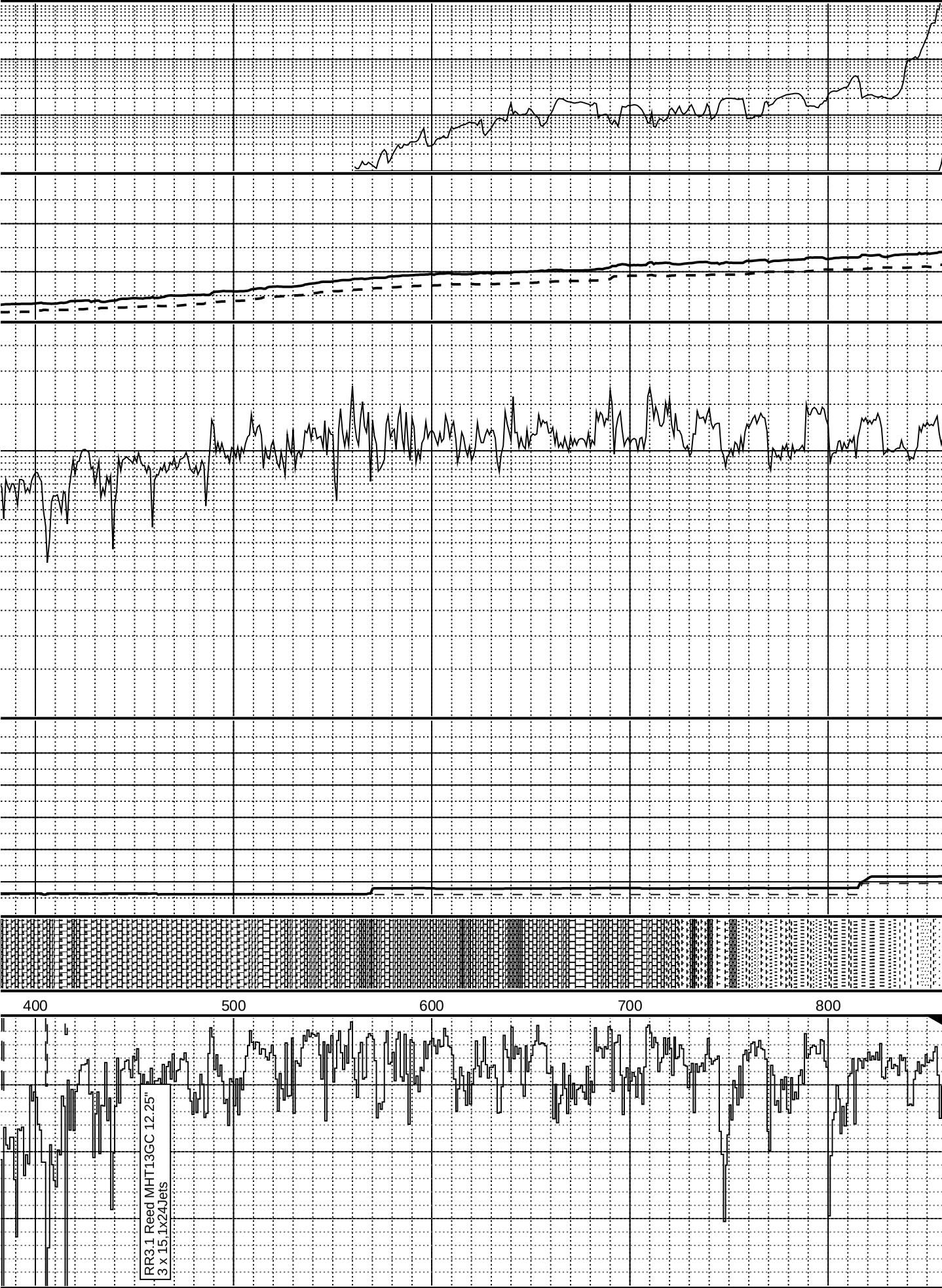
Pressure Data Plot

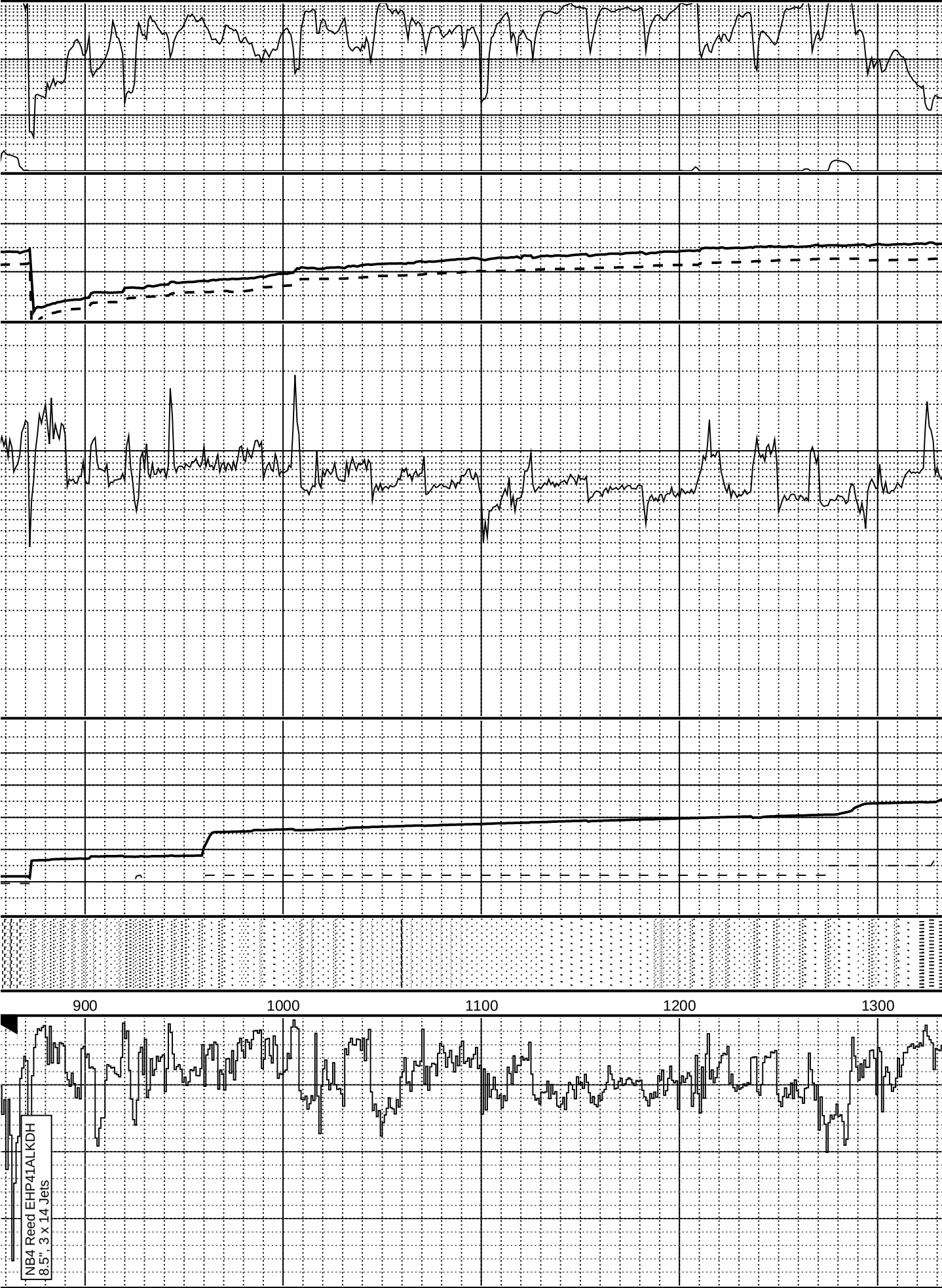
Baleen-3

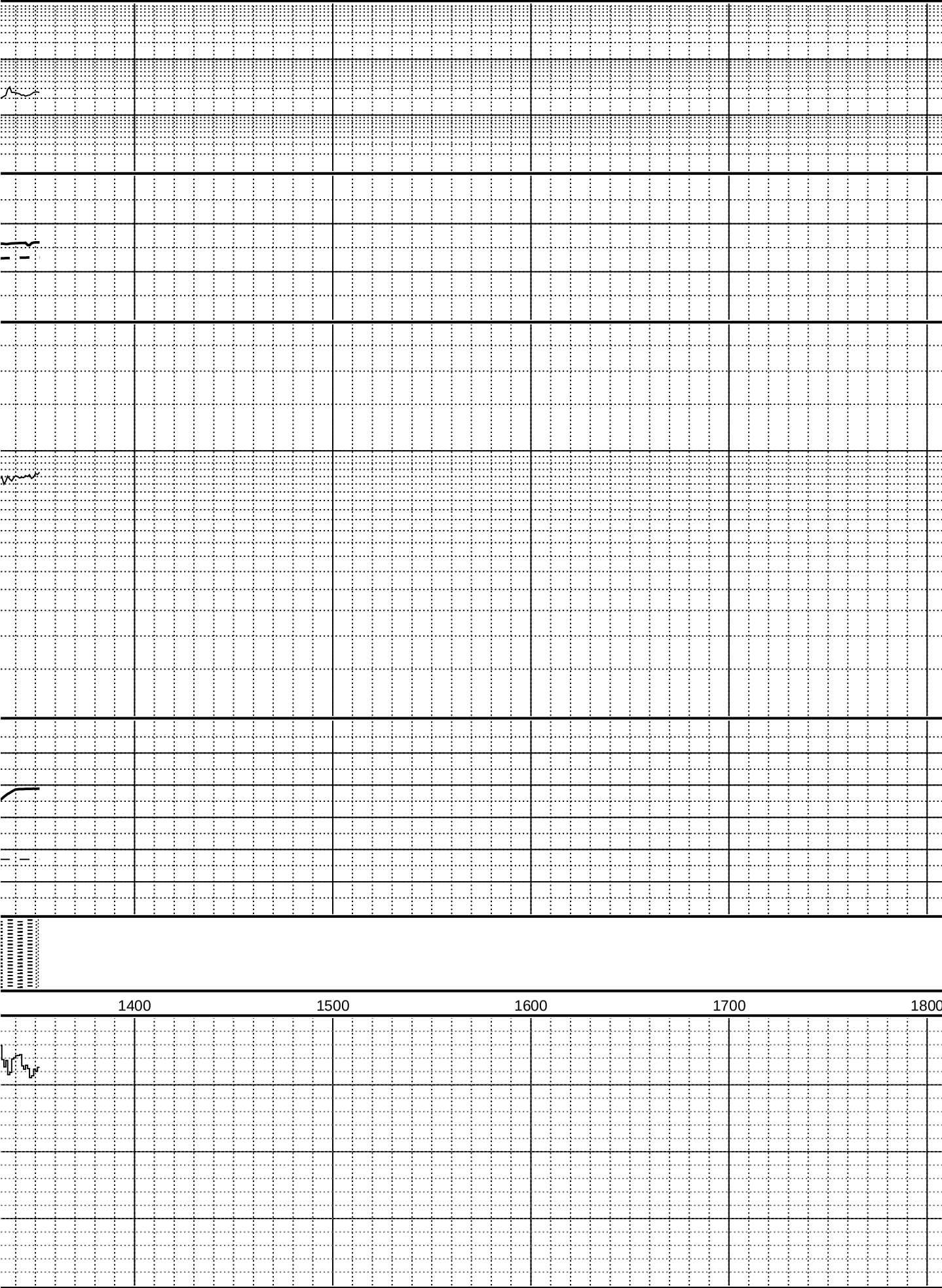
Scale 1 : 2500

OMV Australia




400
500
600
700
800
RR3.1 Reed MHT13GC 12.25"
3 x 15.1x24Jets


900
1000
1100
1200
1300
NB4 Reed EHP41ALKDH
8.5", 3 x 14 Jets


1400
1500
1600
1700
1800

Total Gas (%)

0.01 0.1 1 10

Temp In (degC)

20 40 60 80

Temp Out (degC)

20 40 60 80

DXC

0.1 1 3

MD In (spc_grv)

1 1.1 1.2 1.3 1.4 1.5 1.6

ECD (spc_grv)

1 1.1 1.2 1.3 1.4 1.5 1.6

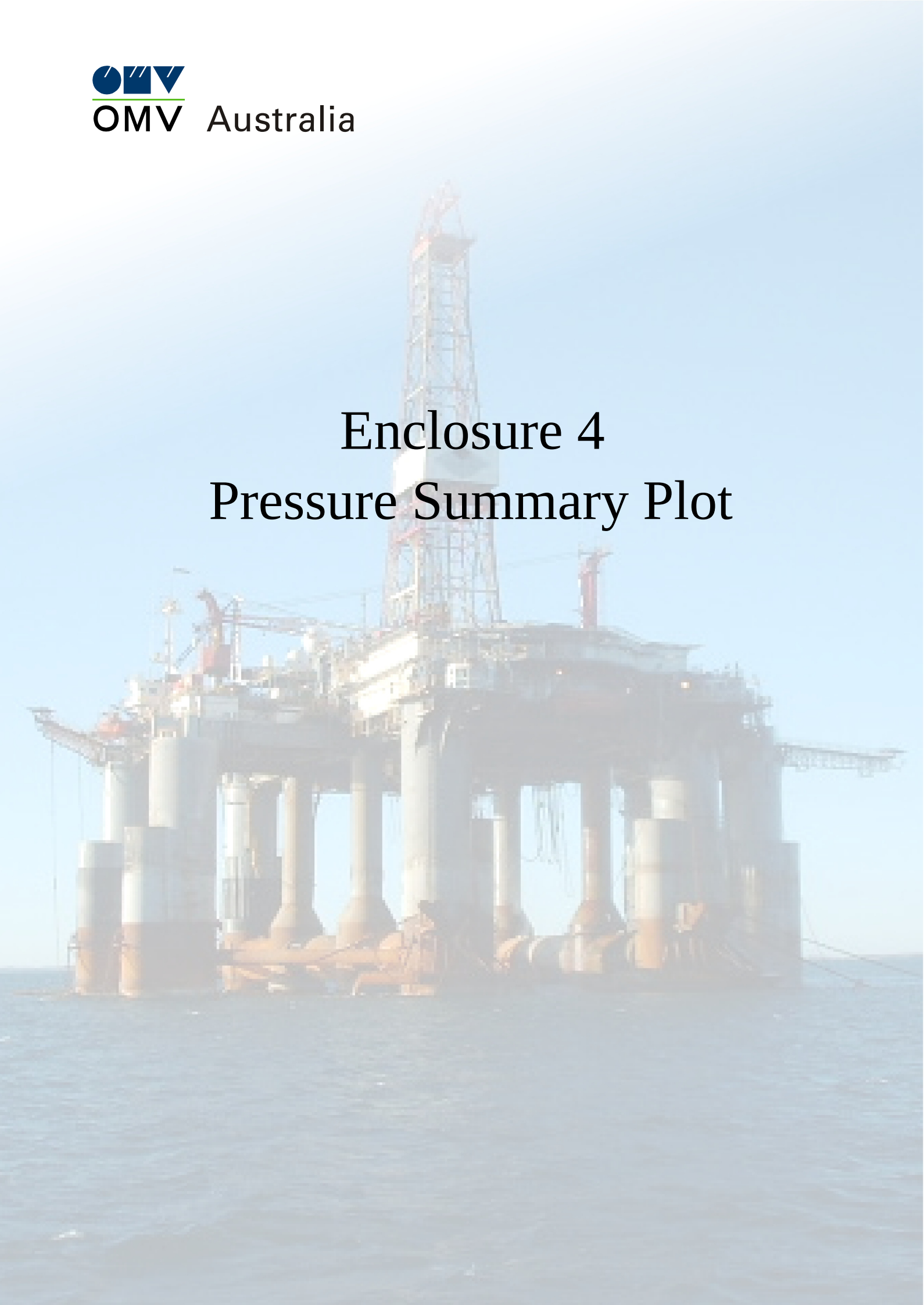
Depth (mRT LAT)

line

ROP (m/hr)

0 50 100 150 200

OMV Australia



Enclosure 4
Pressure Summary Plot

BAKER HUGHES INTEQ

OMV

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Well	**Baleen-3, Baleen-3-ST1**
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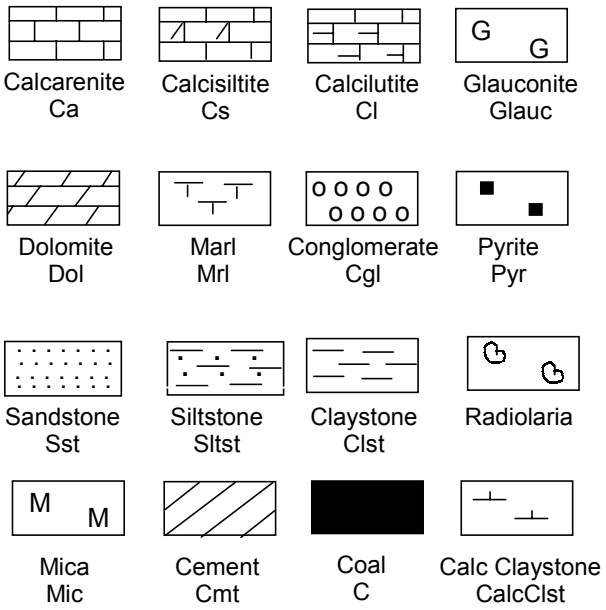
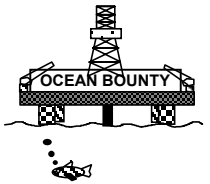
CG	Connection Gas	RMF	Filtrate Resistivty
SG	Swab Gas	TVD	True Vertical Depth

LITHOLOGY SYMBOLS





Datum, Drillfloor (DF)
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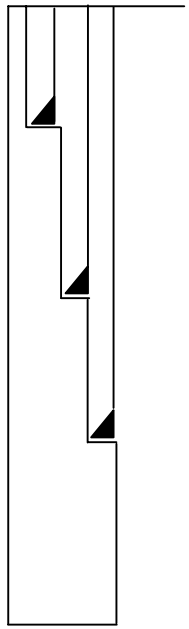

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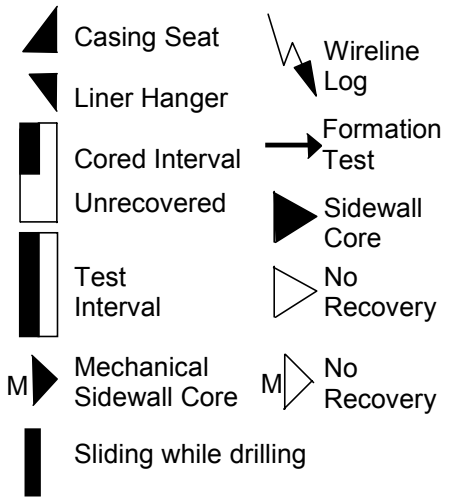


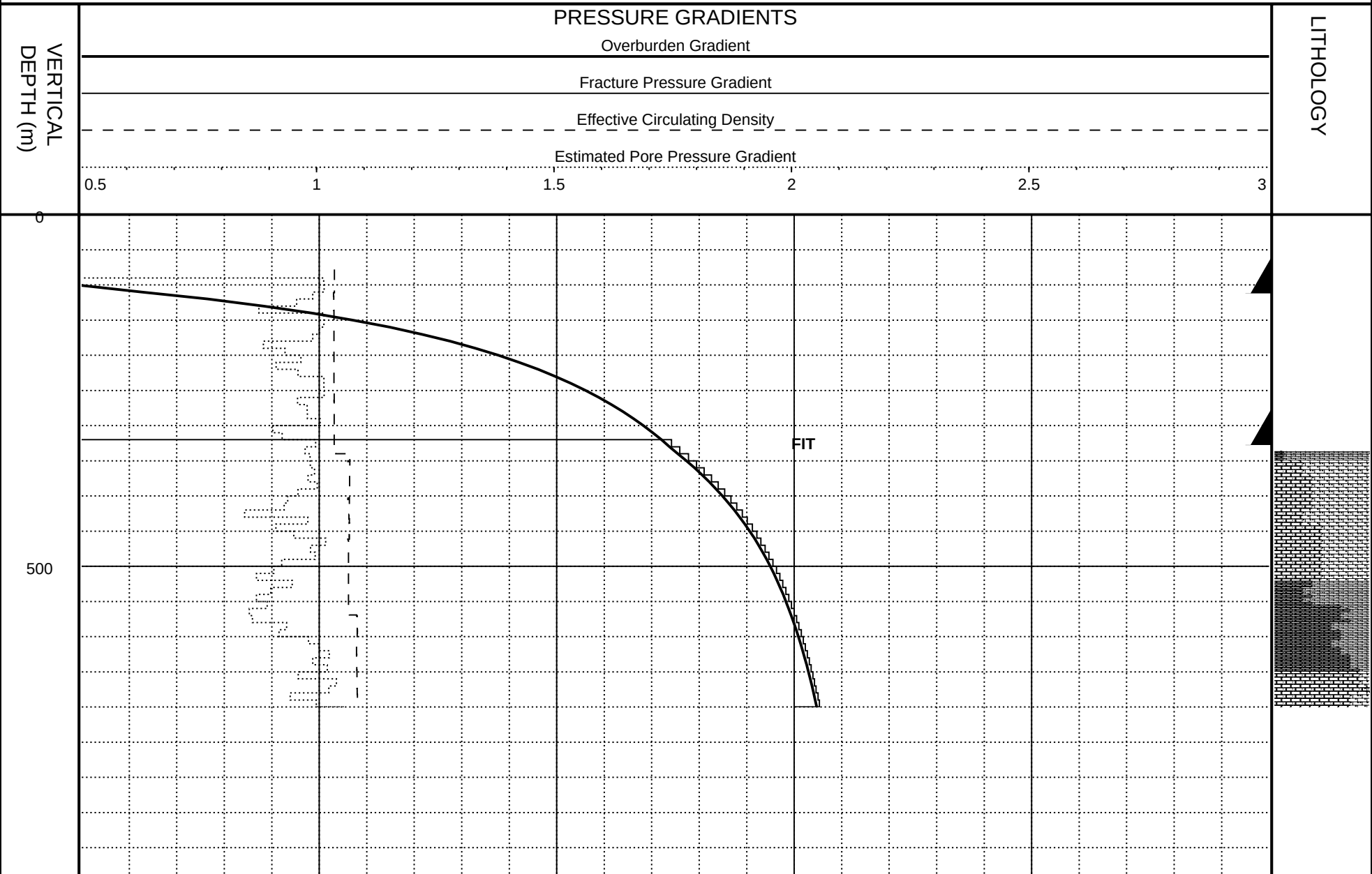
BAKER HUGHES

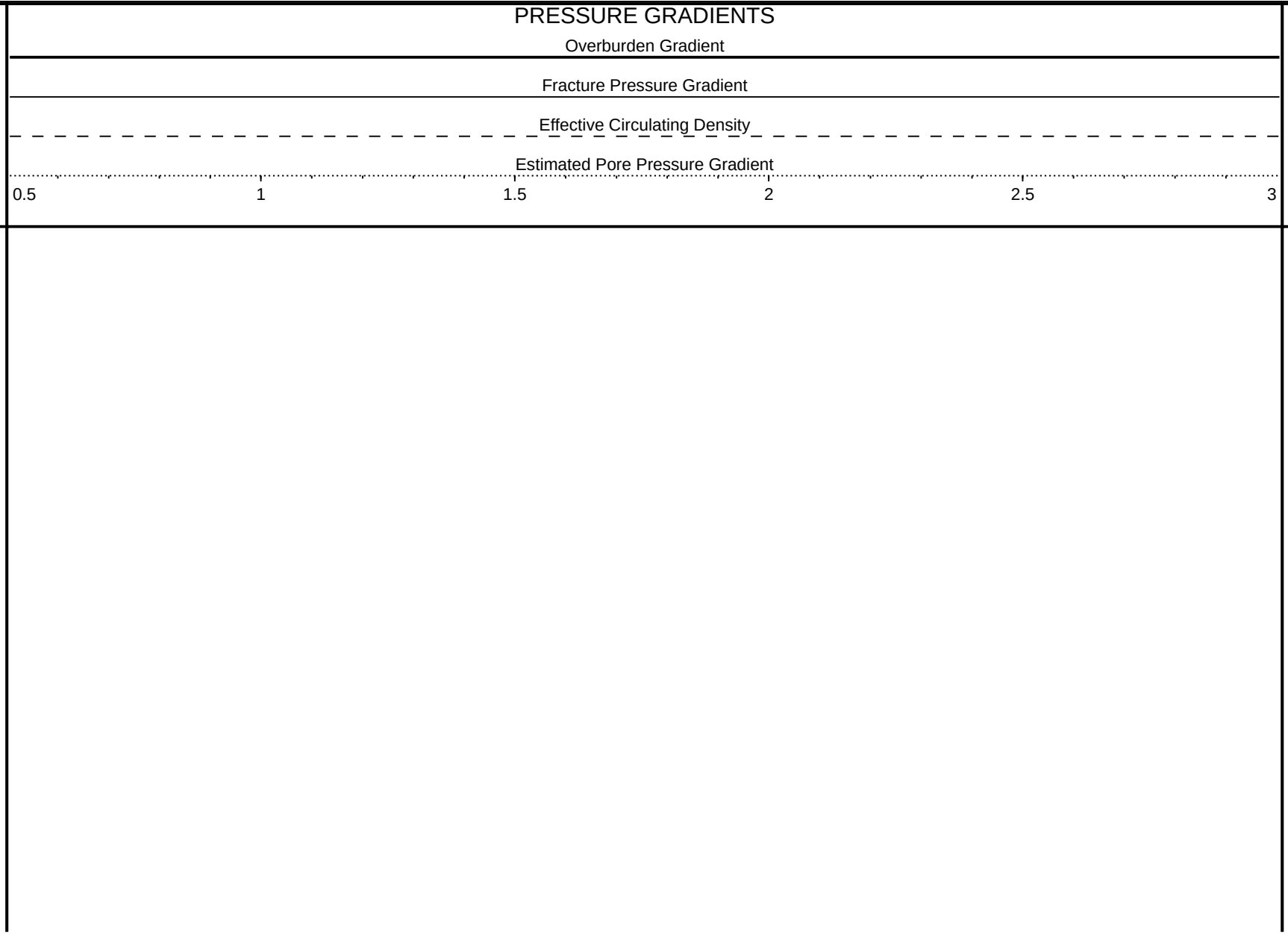
INTEQ

PRESSURE SUMMARY PLOT

Baleen-3

SCALE: 1:7500.0




PRESSURE GRADIENTS
Overburden Gradient
Fracture Pressure Gradient
Effective Circulating Density
Estimated Pore Pressure Gradient
0.5
1
1.5
2
2.5
3
LITHOLOGY