BASS STRAIT OIL COMPANY LTD

WELL COMPLETION REPORT
(Basic Data)
Volume 1 of 1

MACLEAN-1

February 2006

BASS STRAIT OIL COMPANY LTD

MACLEAN-1

WELL COMPLETION REPORT

VOLUME 1 OF 1

(BASIC DATA)

VIC/P47
GIPPSLAND BASIN

OFFSHORE
VICTORIA

Date: February 2006
Compiled by: R. Fisher/P. O'Shea
Reviewed by: Ian Reid

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Table of Contents

1. Overview 1
- 1.1 *Well Data Summary* *1*
- 1.2 *Personnel and Contractors Summary* *2*
- 1.3 *Well Operations Summary* *4*
- 1.4 *Hole and Casing Data Summary* *6*
- 1.5 *Well Overview* *6*
  - 1.5.1 Drilling 6
- 1.6 *Detailed Drilling Performance Review* *6*
  - 1.6.1 Mobilise Rig to Maclean-1 Location 6
  - 1.6.2 Run Anchors & Prepare to Spud 6
  - 1.6.3 Drill 660 x 914mm (26" x 36") Hole Section 7
  - 1.6.4 Run and Cement 762 x 508mm (30" x 20") Conductor 7
  - 1.6.5 Drill 445mm (17 ½") Hole Section 7
  - 1.6.6 Run and Cement 340mm (13 ⅜") Casing 7
  - 1.6.7 Run BOP's and Riser 7
  - 1.6.8 Drill 311mm (12 ¼") Hole Section 8
  - 1.6.9 Well Abandonment 8
  - 1.6.10 Pull Anchors 8

2. Geological Report 9
- 2.1 *Formation Sampling* *9*
  - 2.1.1 Ditch Cuttings 9
  - 2.1.2 Conventional Cores 9
  - 2.1.3 Rotary Sidewall Cores (MSCT) 9
  - 2.1.4 Percussion Sidewall Cores (CST) 9
- 2.2 *Surveys, Logging and Testing Services* *9*
  - 2.2.1 Directional Surveys 9
  - 2.2.2 Mudlogging 10
  - 2.2.3 Lithological Logging 10
  - 2.2.4 Hydrocarbon Indications 11
  - 2.2.5 Measurement and Logging While Drilling (MWD/LWD) 11
  - 2.2.6 Wireline Logging 11
  - 2.2.7 Borehole Seismic 13
  - 2.2.8 Wireline Testing 13
  - 2.2.9 Drill Stem Testing 13
  - 2.2.10 Temperature, Drilling and Mud Property Data 13
- 2.3 *Formation Evaluation* *13*
  - 2.3.1 Biostratigraphy 13
  - 2.3.2 Tracer Analysis 13

3. Drilling Records 14
- 3.1 *Operational Reports* *14*
- 3.2 *Bit and BHA Reports* *14*
- 3.3 *Casing and Cementing Reports* *14*
- 3.4 *Drilling Fluids Reports* *14*
- 3.5 *Well Trajectory* *14*
- 3.6 *LOT/FIT Reports* *16*
- 3.7 *Project Logistics* *16*
  - 3.7.1 Mobilisation 16
  - 3.7.2 Shorebase 16

3.8 *Communications* *20*
3.9 *Weather Forecasting* *20*

4. Unscheduled Events 21
4.1 *Pre-Spud* *21*
4.2 *Drilling* *21*
4.3 *Post Drilling* *21*
4.4 *Downtime Analysis* *21*

LIST OF TABLES

Table 1: Hole Size Summary
Table 2: Casing Summary
Table 3: Plug and Abandonment Cement Plug Summary
Table 4: Cuttings sample Interval
Table 5: Summary of Average Ditch Gas Readings Recorded in Maclean-1
Table 6: Summary of MWD/LWD Logging Runs
Table 7: Summary of MWD/LWD Log Prints
Table 8: Samples submitted for Palynology
Table 9: Well Trajectory
Table 10: Formation Integrity Test Summary

LIST OF FIGURES

Figure 1: Maclean-1 Location Map
Figure 2: Vic/P47 Location Map
Figure 3: Maclean-1 Time versus Depth Curve
Figure 4: Logistics and Support Infrastructure Diagram

TABLE OF APPENDICES

Appendix 1: Cuttings Sample Descriptions (BAS)
Appendix 2: Tracer Monitoring and Analysis (Petrotech)
Appendix 3: Mudlogging Final Well Report (GeoServices)
Appendix 4: LWD End of Well Report (Halliburton)
Appendix 5: Palynology Report & Distribution Chart – Basic Data (Biostrata)
Appendix 6: Final Rig Positioning Report (FUGRO)
Appendix 7: Rig Positioning QA Report (RPS Hydrosearch)
Appendix 8: Casing and Cementing Reports (BAS)
Appendix 9: Drilling Fluid Report (MI Swaco)
Appendix 10: Cementing End of Well Report (Dowell)
Appendix 11: Drilling Data (IDS)
Appendix 12: Daily Drilling Reports (IDS)
Appendix 13: Diamond Offshore EOWR (DOGC)
Appendix 14: Contractors Performance (BAS)

LIST OF ENCLOSURES

Enclosure 1: Maclean-1 Formation Evaluation Log
Enclosure 2: Maclean-1 Drilling Data Plot
Enclosure 3: Maclean-1 Pressure Evaluation Log
Enclosure 4: Maclean-1 Gas Log

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1. Overview

1.1 *Well Data Summary*

Well name		Maclean-1
Type of Well		Vertical Exploration
Well Status		Plugged & Abandoned as a Dry Hole
Permit		Vic/P47
Operator		Bass Strait Oil Company Ltd
Interests		Bass Strait Oil Company Ltd 40% Eagle Bay Resources NL 25% Moby Oil & Gas Ltd 35%
Objectives	***Primary***	Kingfish Formation
	Secondary	Volador Formation
Seismic Reference		GAP04A Inline 2466 Xline 1255
Geographical Location	***Latitude***	38° 02’ 46.32” S
	Longitude	148° 32’ 52.92” E
	Northing	5,787,927.9 mN
	Easting	635,831.9 mE
Elevation (RT)		+21.5m
Water Depth		57.0m (MSL)
General Reference Datum / CM		GDA 94 / 147°E
Map Reference		SJ55 1:1,000,000 Melbourne Map Sheet Graticular Block 1783
Rig Heading		248.45° True
Total Depth	**mMDRT** **mSS** **mSSTVD**	766.0mMDRT 744.5mSS 744.45mSSTVD
Time to Drill		8.2 days
Rig on Contract		14th October 2005; 14:00 hours
Spud Date		16th October 2005; 03:30 hours
Well Reach TD		20th October 2005; 06:00 hours
Rig Released		22nd October 2005; 18:30 hours

1.2 *Personnel and Contractors Summary*

OFFSHORE PERSONNEL	
Drilling Supervisors	Peter Dane / Simon Rodda / Ron King
Logistics Supervisor	John Forrest
Geologists	Geoff Geary / Rob Blackmore

ONSHORE PERSONNEL	
Project Advisor (Perth)	Tom Brand
Drilling Superintendent (Perth)	Colin Allport
Drilling Engineer (Perth)	Paul O'Shea
General Manager, Exploration – BAS (Melbourne)	Ian Reid
Operations Geologist (Perth)	Robert Fisher
HSE Co-ordinator (Perth)	Tom Brand
Shorebase Materials and Logistics Coordinator	John Lohf

SERVICE	**CONTRACTOR**
Mobile Offshore Drilling Unit	Diamond Offshore General Company "Ocean Patriot"-Steve Ramsey
Project Advisor	Labrador Petro-Management – Tom Brand
Drilling Fluids	Mi Swaco- Steve Jones
Mudlogging	Geoservices – John Ryan
Wireline/VSP	Schlumberger – Leigh Rigg
Tracer/Fluid Samples	Petrotech $_{Knowledge}$– Robyn Tamke
Cementing	Dowell Schlumberger – Leen Vlott
Drill Bits	Reed Hycalog – Les Szalai
Drilling Tools	Smith International – Colin Hankinson
Casing Handling	Weatherford – Aaron Sinnott
Wellhead	Dril-Quip – Colin Nicol
Anchor Handling Supply Vessels	Swire Pacific-"Pacific Wrangler" – Bob Hankinson Farstad-"Far Grip" – Bruce Dann
Helicopters/Type	Bristows/S-76 - Paul Giddon
Fixed Wing Services	Bristows - Paul Giddon
M/LWD	Halliburton – Peter Sammann
ROV	Fugro - Norman Mackay

SERVICE	CONTRACTOR
Drilling Rental Tools	Tasman Oiltools – Chris Crawford
Direction Tool	Pathfinder – John Grullis
Shore Base (Wharf 27 Melbourne)	Dent Group – Phil Dent
Transportation	Bonnie Rock – Jim Currie
Rig Positioning	Fugro Survey – Ian Hobbs
Rig Positioning QC	RPS Hydrosearch – Simon Hartland
Weather Reporting	Bureau of Meteorology – David Bebee
Communications	Santos / Marcomm – David Green

LOGISTICS	
Shorebase Materials and Logistics Coordinator	Perth - John Lohf / Paul O'Shea
Supply Base Location	Port Melbourne, Victoria – Wharf 27
Helicopter Location	Essendon Airport - Melbourne
Fixed Wing Services	Essendon Airport - Melbourne

1.3 *Well Operations Summary*

The Diamond Offshore General Company MODU 'Ocean Patriot' was mobilised from the Gilbert-1A location in the Gippsland Basin and towed to the Maclean-1 location by a single AHSV ("Far Grip"). Maclean-1 operations commenced at 14:00 on 14th October 2005 when the last anchor was racked back at the Gilbert-1A location. The 'Ocean Patriot' was on location at Maclean-1 at 21:30 on 14th October 2005. The seafloor was tagged at 78.5m MDRT, corrected to Mean Sea Level (MSL). The water depth at Mean Sea Level was recorded as 57.0m, significantly less than the 73.0m anticipated prior to drilling, with a drill floor elevation of 21.5m. Maclean-1 was spudded at 03:30 on 16th October 2005 and the 914mm (36") hole drilled to 112.0m MDRT. An Anderdrift survey was taken at section TD and showed 1.5° inclination so the hole was reamed three times. Another Anderdrift survey was taken and still showed 1.5° inclination at section TD. The 762x508mm (30x20") conductor was run and set at 110.9m MDRT and cemented with 855 sacks (180 bbl) cement slurry at 1.90 SG (15.8 ppg). The tension on the guidelines was adjusted to change the angle of the PGB from 2° to 1°. The final location for Maclean-1 was confirmed as being 4.1m from the proposed location on a True Bearing of 336.7°. The final fix for Maclean-1 was:

Latitude: 38° 02' 46.32" S

Longitude: 148° 32' 52.92" E

Easting: 635 831.9m

Northing: 5 787 927.9m

DATUM: GDA94

The 445mm (17 ½") BHA was made up and guide ropes were attached to it and the guidelines. The BHA was run in hole and cement was tagged at 107.0m MDRT. The cement and casing shoe were drilled from 107.0m MDRT to 112.0m MDRT and drilling continued to section TD at 355.0m MDRT, pumping PHG sweeps mid-stand and before every connection. At section TD, a 23.7 m^3 (150 bbl) PHG sweep was pumped and the hole was displaced with 50.9 m^3 (320 bbl) of PHG mud. A wiper trip to the 762x508mm (30x20") casing shoe was made to work tight spots clean. The string was run back to bottom with the hole in good condition. The hole was swept clean with 7.9 m^3 (50 bbl) of PHG and then displaced to PHG mud. The BHA was pulled out of the hole, jetting the 762mm (30") housing on the way out.

The 340mm (13 ⅜") casing was run to 350.0m MDRT and cemented with a 20.7 m^3 (130 bbl (459 sacks)) lead slurry of 1.50 SG (12.5 ppg) Class G cement, followed by a 16.1 m^3 (101 bbl (356 sacks)) tail slurry of 1.90 SG (15.8 ppg) Class G cement. The top dart was released and chased with 1.6 m^3 (10 bbl) of drillwater, then the cement was displaced with another 18.6 m^3 (117 bbl), bumping the plug with 3447 kPa (500 psi) over the final circulating pressure to 6205 kPa (900 psi). The BOP's were run while testing the choke lines, kill lines and marine riser to 1724 kPa (250 psi) for 5 minutes and 20684 kPa (3000 psi) for 10 minutes. Once the BOP's were landed, the shear rams were closed and the connector to the casing was tested to 1724 kPa (250 psi) for 5 minutes and 20684 kPa (3000 psi) for 10 minutes. The middle pipe rams were then closed and the connector was tested with 1724 kPa (250 psi) for 5 minutes and 20684 kPa (3000 psi) for 10 minutes.

The 311mm (12 ¼") BHA was made up and run in hole, tagging the top of cement at 314.0m MDRT. The shoe track and cement were drilled out down to the bottom of the rat hole at 355.0m MDRT. New formation was drilled in 311mm (12 ¼") hole from 355.0m to 358.0m MDRT. The well was displaced to a 1.04 SG (8.7 ppg) KCl/PHPA mud system and the choke and kill lines were displaced as well. The cement unit lines were pressure tested to 6895 kPa (1000 psi) before performing a successful FIT to 1.65 SG (13.8 ppg). The hole section was then drilled ahead to 600.0m MDRT, from which depth the drilling rate was controlled at 25 m/hr until the well TD at 766.0m MDRT. The well was circulated clean and the BHA was pulled out of the hole. Due to excessive drag, the hole was backreamed while pulling out from 622.0 to 350.0m MDRT. The hole was circulated clean and flow checked, then the BHA was pulled out of hole.

No wireline logs were required and so plug & abandonment operations were started.

The 73mm (2 ⅞") tubing cement stinger was picked up and run in hole on 127mm (5") drill pipe to 766.0m MDRT and two plugs of 10.0 m^3 (63 bbl) of 1.90 SG (15.8 ppg) Class G cement slurry were pumped. Plug #1a was set from 766.0m to 666.0m MDRT and Plug #1b was set from 666.0m to 530.0m MDRT. The cement stinger was pulled back to 400.0m MDRT and a 10.3 m^3 (65.0 bbl) volume of 1.90 SG (15.8 ppg) Class G cement slurry was pumped, setting Plug #2 from 400.0m to 270.0m MDRT. Excess tubulars were laid out while waiting on cement. The cement stinger was picked up and run in hole to tag the top of cement Plug #2 at 274.0m MDRT and then the hole was displaced with 19.1 m^3 (120 bbl) of 1.08 SG (9.0 ppg) inhibited mud. The stinger assembly was pulled out of the hole and the 73mm (2 ⅞") tubing was laid out. The 340mm (13 ⅜") bridge plug was picked up, run in hole and set at 148.0m MDRT. The bridge plug was pressure tested to 6895 kPa (1000 psi) and then the setting tool was pulled out of hole. Open-ended drill pipe was run in to 148.0m MDRT, where a final volume of 4.1 m^3 (26 bbl) of 1.90 SG (15.8 ppg) Class G cement slurry was pumped, setting Plug #3 from 148.0m to 100.0m MDRT.

The BOP's were pulled and the ROV released the HAC. The 508mm (20") spear and cutting assembly was picked up, run in hole and stabbed into the 476mm (18 ¾") wellhead. The 508mm (20") casing was cut at 83.4m MDRT. The cutting assembly was then pulled out of hole along with the speared casing cut-off stub and PGB.

Anchor handling operations were started at 01:30 on 22nd October 2005. The last anchor was racked at 18:30 on 22nd October 2005 and the rig was released to Apache Energy Ltd. Total time on Maclean-1 location was 8.2 days.

1.4 *Hole and Casing Data Summary*

A summary of hole sizes and depths is provided in Table 1 and a summary of casing sizes and setting depths is presented in Table 2.

Table 1: Hole Size Summary

Hole Size		Depth To		Length
(in)	(mm)	mMD RT	mTVD SS	(m)
26" x 36"	660 x 914	112.0	90.5	33.5
17 ½"	445	355.0	333.5	243.0
12 ¼"	311	766.0	744.5	411.0

Table 2: Casing Summary

Casing Size		Grade	Weight (kg/m)	FIT (sg)	Cement	Depth	
(in)	(mm)					mMD RT	mTVD SS
30 x 20	762 x 508	X-52			Seabed	110.9	89.4
13 ⅜	340	K-55/L-80	101	1.43	Seabed	355.0	355.0

1.5 *Well Overview*

1.5.1 Drilling

Maclean-1 reached total depth (TD) at 766.0m MDRT (-744.5m TVDSS). Maclean-1 operations were performed efficiently and without incident leading to the well being drilled under the critical path.

1.6 *Detailed Drilling Performance Review*

1.6.1 Mobilise Rig to Maclean-1 Location

The rig was mobilised from BAS's Gilbert-1A location

Actual time:	7.50 hours	Trouble time:	0.0 hours
Productive Time:	7.5 hours	Technical Limit:	8.0 hours
Budgeted time:	9.6 hours	Under Budget:	**22 %**

1.6.2 Run Anchors & Prepare to Spud

The time breakdown for running anchors was as follows:

Actual time:	28.5 hours	Trouble time:	0.0 hours
Productive Time:	28.5 hours	Technical Limit:	23.5 hours
Budgeted time:	28.2 hours	Over Budget:	**1.1 %**

Anchor handling operations were performed without incident.

1.6.3 Drill 660 x 914mm (26" x 36") Hole Section

The time breakdown for drilling the 660 x 914mm (26" x 36") hole was as follows:

Actual time:	5.5 hours	Trouble time:	0.0 hours
Productive Time:	5.5 hours	Technical Limit:	5.5 hours
Budgeted time:	6.6 hours	Under Budget:	**16.7 %**

Drilling the 914 mm hole was performed efficiently and without incident.

1.6.4 Run and Cement 762 x 508mm (30" x 20") Conductor

The time breakdown for running and cementing conductor was as follows:

Actual time:	14.5 hours	Trouble time:	1.0 hours
Productive Time:	13.5 hours	Technical Limit:	13.0 hours
Budgeted time:	15.6 hours	Under Budget:	**7.1 %**

1.0 hour of trouble time occurred as the rig was unable to install a cement hose due to the ball plug on the side entry sub being too tight.

1.6.5 Drill 445mm (17 ½") Hole Section

The time breakdown for drilling the 445mm (17 ½") hole was as follows:

Actual time:	17.0 hours	Trouble time:	0.0 hours
Productive Time:	17.0 hours	Technical Limit:	16.0 hours
Budgeted time:	19.2 hours	Under Budget:	**11.5 %**

Drilling operations went without incident.

1.6.6 Run and Cement 340mm (13 ⅜") Casing

The time breakdown for running and cementing casing was as follows:

Actual time:	12.0 hours	Trouble time:	0.0 hours
Productive Time:	12.0 hours	Technical Limit:	15.0hours
Budgeted time:	18.0 hours	Under Budget:	**33.3 %**

1.6.7 Run BOP's and Riser

Time breakdown for running and testing BOP's and running the seal bore protector are as follows:

Actual time:	18.0 hours	Trouble time:	0.0 hours
Productive Time:	18.0 hours	Technical Limit:	25.5 hours
Budgeted time:	30.6 hours	Under Budget:	**41.2 %**

Running the BOP stack was performed extremely efficiently. Several operations budgeted in this section were performed off the critical path saving valuable rig time and increasing the efficiency of the operation.

1.6.8 Drill 311mm (12 ¼") Hole Section

The time breakdown of the drilling of the 311mm (12 ¼") hole is as follows:

Actual time:	40.0 hours	Trouble time:	0.0 hours
Productive Time:	40.0 hours	Technical Limit:	34.0 hours
Budgeted time:	40.8 hours	Under Budget:	**2.0 %**

This section was drilled slower than expected due to controlled drilling rates over the reservoir sections that were not accounted for in the AFE. Time was made up because of the decision to not run any wireline logs, so no wiper trip was made, and the TD of the well was slightly shallower than the prognosed TD.

1.6.9 Well Abandonment

The abandonment plugs were set using 73mm (2 ⅞") tubing stinger and summarised in Table 3.

Table 3: Plug and Abandonment Cement Plug Summary

Plug No.	Amount Pumped m^3 [bbl]	From (mMD RT)	To (mMD RT)	Tagged (mMD RT)
1a	10.0 m^3 (63 bbls)	766	666	-
1b	10.0 m^3 (63 bbls)	666	530	-
2	10.3 m^3 (65 bbls)	400	270	274
3	4.1 m^3 (26 bbls)	148	100	-

A time breakdown for the abandonment operations is as follows:

Actual time:	40.0 hours	Trouble time:	0.0 hours
Productive Time:	40.0 hours	Technical Limit:	49.25 hours
Budgeted time:	59.1 hours	Under Budget:	**32.3 %**

An extremely efficient job was performed on the rig with several jobs being performed concurrently to save time. The PGB was hung off in the moonpool for use by Apache, saving time by not breaking it down.

1.6.10 Pull Anchors

The time breakdown for the pulling of the anchors is as follows.

Actual time:	13.5 hours	Trouble time:	0.0 hours
Productive Time:	13.5 hours	Technical Limit:	15.0 hours
Budgeted time:	18.0 hours	Under Budget:	**25.0 %**

Operations on this well were completed without incident and all personnel involved throughout the operation performed their duties safely and efficiently.

The rig was released at 18:30 on 22nd October 2005.

The Time versus Depth curve forms Figure 3 of this report.

2. Geological Report

2.1 *Formation Sampling*

2.1.1 Ditch Cuttings

Four (4) sets of washed and air dried sample splits each of 100gm or 200gm were collected at 10m or 3m intervals depending upon the stratigraphic section and rate of penetration (ROP) from 355.0m to 766.0m MDRT in Maclean-1 and retained in plastic bags. One set (Set D) was dispatched to GeoScience Australia (GA), Core and Cuttings Repository, Symonston, ACT, another set (Set C) was dispatched to the Victorian DPI Core Library South Road, Werribee, Vic 3030 and another set (Set B) was dispatched to Eagle Bay Resources. BAS has retained the remaining set (Set A) which is stored at Kestrel Information Management Pty Ltd, 578-590, Somerville Road, Sunshine, Vic 3020

In addition, one set of cuttings samples were collected in "samplex" trays that are stored at Kestrel Information Management, Victoria.

The cuttings sampling interval and number of samples collected for Maclean-1 is tabulated below in Table 4.

Table-4: Cuttings Sample Interval

HOLE SIZE (mm)	FROM (mMD RT)	TO (mMD RT)	INTERVAL (m)	NUMBER OF SAMPLES
311	355	580	10	23
311	580	766	3	62
			TOTAL	**85**

2.1.2 Conventional Cores

No conventional cores were cut in Maclean-1.

2.1.3 Rotary Sidewall Cores (MSCT)

No rotary sidewall cores were cut in Maclean-1.

2.1.4 Percussion Sidewall Cores (CST)

No percussion sidewall cores were cut in Maclean-1.

2.2 *Surveys, Logging and Testing Services*

2.2.1 Directional Surveys

A totco survey was dropped at section TD of the 914mm (36") hole section prior to running the conductor. LWD surveys were acquired throughout the 445mm (17 ½") and 311mm (12 ¼") hole sections while drilling. The resulting final definitive survey data report (Table 9) is included in Section "3.5 Well Trajectory".

2.2.2 Mudlogging

GeoServices SA provided mudlogging services for the drilling of Maclean-1 from spud to total depth at 766.0m MDRT using a crew of two (2) data engineers, two (2) mudloggers and one (1) sample catcher. A fully pressurised and computerised Logging Unit was maintained throughout the drilling phase of Maclean-1. A fully computerised data acquisition service operated down to the 340.0mm (13 ⅜") casing shoe at 350.0m MDRT and a fully computerised mudlogging and data acquisition service operated for the 311.0mm (12 ¼") hole section (i.e. from 355.0m to total depth at 766.0m MDRT).

The full mudlogging service included the continuous evaluation of pore pressure and drilling parameters as an aid to optimising drilling costs and ensuring that drilling continued with maximum safety to personnel, the well and equipment. The information obtained while drilling was visually displayed and stored both as hard copy printouts and on hard disc. Details of the services, together with printouts and plots of the results of these services, are contained in the GeoServices Final Well Report (Appendix 3). The Formation Evaluation Log (mudlog) displays the rate of penetration (ROP), total gas, chromatographic analyses and wellsite interpreted lithologies. The Formation Evaluation Log, Drilling Data Plot, Pressure Evaluation Log and Gas Log are included herein as Enclosures 1-4 respectively.

Drilling Parameters, Monitoring and Recording

- **Drilling Parameters** – ROP, hole depth, bit depth, hookload, WOB, top drive RPM, top drive torque, pipe speed/block position
- **Mud Parameters** – pump rates, flow rates (IN/OUT), pit volumes, mud density (IN/OUT) and mud temperature (IN/OUT)
- **Pressure Parameters** – pump pressure and casing pressure
- **Ditch Gas Parameters** – total gas, chromatographic gas, H_2S and CO_2 detection
- **Data Engineers** – calculated and monitored the Equivalent Circulating Density (ECD), the drilling exponent, formation pore pressure and cuttings lag time and depth

Sampling and Analysis

The GeoServices mudloggers carried out the following:

- the collection, bagging and dispatch of ditch cuttings as defined in Section 2.5 of Appendix 3, accompanied by lithological and microscopic examination,
- calcimetry measurements on ditch cuttings as required, and
- drilling mud sample collection and mud filtrate samples as required for geochemistry.

2.2.3 Lithological Logging

Cuttings were described by the Wellsite Geologists from 355.0m to 766.0m MDRT in Maclean-1. A cuttings description report is included herein as Appendix 1.

2.2.4 Hydrocarbon Indications

Ditch Gas Readings:

Total gas, chromatographic breakdown of the ditch gas and trip gas was recorded from 355.0m to 766.0m MDRT throughout the 311mm (12 ¼") hole section using the GeoServices Reserval Gas System. The results of these readings are included in Appendix 3. Trace to minor amounts of total gas, consisting of minor amounts of methane (C_1) and trace amounts of ethane (C_2), propane (C_3), iso-butane (iC_4) and n-butane (nC_4), were recorded with the first drilling returns in the 311mm (12 ¼") hole section, starting at 355.0m MDRT and continuing to 520.0m MDRT. Average background gas through this interval was 0.08% total gas with a maximum of 0.2% total gas. Background gas levels increased slightly below 520.0m MDRT, fluctuating between 0.11% and 0.82% total gas until total depth was reached at 766.0m MDRT. The readings on this deeper gas showed minor amounts of C_1 with trace amounts of C_2 to C_5. The maximum total gas recorded in Maclean-1 was 1.88% at 590.5m MDRT, consisting of 13,598ppm C_1, 1ppm C_2, 1ppm C_3, 12ppm iC_4, 4ppm nC_4 and 3ppm iC_5 and 1ppm nC_5.

Average ditch gas readings recorded throughout the drilling of Maclean-1 are summarised below in Table 5.

Table 5: Summary of Average Ditch Gas Readings Recorded in Maclean-1

Depth Range (mMD RT)	Total Gas (%)	Methane (C1) ppm	Ethane (C2) ppm	Propane (C3) ppm	Iso-Butane (i-C4) ppm	Normal-Butane (n-C4) ppm	Iso-Pentane (i-C5) ppm	Normal Pentane (n-C5) ppm
355-520	0.08	686	2	1	1	1	0	0
520-584	0.37	3695	2	2	2	0	0	0
584-630	0.82	6419	1	1	4	2	2	2
630-672	0.28	2298	2	2	7	0	0	0
672-708	0.13	1333	5	1	6	2	4	0
708-766	0.16	1411	1	1	6	1	6	0

Sample Shows

No sample shows were recorded in cuttings in Maclean-1.

2.2.5 Measurement and Logging While Drilling (MWD/LWD)

LWD services were provided by Halliburton (Sperry Drilling Services) on Maclean-1 and full details of their operation are recorded in their End of Well Report included herein as Appendix 4. All MWD/LWD operations are briefly summarised in Table 6 and a summary of MWD/LWD log prints/image logs is included as Table 7.

2.2.6 Wireline Logging

No wireline logs were run in Maclean-1.

Table 6: Summary of MWD/LWD Logging Runs

Run #	Well Name	Hole Size (mm)	Start Depth (m)	End Depth (m)	Operating Hours	Circulating Hours	Maximum Circulating Temperature (°C)
0100	Maclean-1	445	112.0	355.0	13.71	8.15	20.0
0200	Maclean-1	311	355.0	766.0	37.69	25.39	45.0

Table 7: Summary of MWD/LWD Log Prints

Run No.	Log Print/Type	Scale	Depth Interval (m)
0100, 0200	Maclean-1 EWR-DGR (MD)	1:200	112-766
0100, 0200	Maclean-1 EWR-DGR (MD)	1:500	112-766

2.2.7 Borehole Seismic

No VSP/Checkshot Survey was conducted in Maclean-1.

2.2.8 Wireline Testing

No wireline testing was performed on Maclean-1.

2.2.9 Drill Stem Testing

No DST was done in Maclean-1.

2.2.10 Temperature, Drilling and Mud Property Data

There were no temperature surveys run in Maclean-1. The only temperatures recorded were circulating temperatures using the LWD tools as noted in Table 6 above.

2.3 *Formation Evaluation*

2.3.1 Biostratigraphy

A total of nine (9) ditch cuttings samples from the gross interval 588-762 metres were examined palynologically by *Dr Alan Partridge of Biostrata Pty Ltd*. These samples are listed below in Table 8. The results of this work are presented in Appendix 5 and a discussion of the results is presented in the Maclean-1 Interpretative Data Well Completion Report issued under separate cover. All data are available in digital format.

Table 8: Samples submitted for Palynology

Sample Type	Depth (mMD RT)
Cuttings	588-591
Cuttings	606-609
Cuttings	615-618
Cuttings	621-624
Cuttings	630-633
Cuttings	640-645
Cuttings	675-678
Cuttings	699-702
Cuttings	759-762

2.3.2 Tracer Analysis

A Petrotech representative was onsite for the addition of and monitoring of sodium thiocyanate tracer in the drilling mud during drilling through the zone of interest, so that mud contamination of formation brines obtained during wireline fluid sampling could be evaluated. At the completion of drilling it was decided that there was no requirement for wireline fluid sampling to be completed. Petrotech was therefore not required to perform any sample analysis. A copy of the PetroTech final report is included herein as Appendix 2.

3. Drilling Records

3.1 *Operational Reports*

Daily operational reports are summarized in Appendix 12.

3.2 *Bit and BHA Reports*

Bit and BHA reports are summarized in Appendix 11.

3.3 *Casing and Cementing Reports*

Casing and Cementing Reports are presented in Appendix 8 and 10.

3.4 *Drilling Fluids Reports*

The MI Swaco Drilling Fluids report is presented in Appendix 9.

3.5 *Well Trajectory*

The trajectory for the well is presented in Table 9.

Table 9: Well Trajectory

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
129.21	1.28	306.65	129.20	0.86 N	1.16 W	0.86	TIE-IN
156.69	1.22	294.94	156.67	1.17 N	1.67 W	1.17	0.29
185.04	1.06	302.99	185.02	1.44 N	2.16 W	1.44	0.24
213.59	1.11	298.82	213.56	1.71 N	2.63 W	1.71	0.10
242.12	0.77	292.08	242.09	1.92 N	3.05 W	1.92	0.38
299.14	0.74	296.01	299.10	2.23 N	3.73 W	2.23	0.03
310.49	0.70	293.91	310.45	2.29 N	3.86 W	2.29	0.12
353.42	0.56	292.19	353.38	2.47 N	4.29 W	2.47	0.10
382.03	0.36	299.13	381.99	2.57 N	4.50 W	2.57	0.21
410.88	0.47	307.10	410.84	2.68 N	4.68 W	2.68	0.13
468.63	0.51	324.26	468.59	3.03 N	5.01 W	3.03	0.08
497.69	0.48	307.59	497.64	3.21 N	5.19 W	3.21	0.15
526.41	0.52	316.12	526.36	3.38 N	5.37 W	3.38	0.09
555.05	0.28	329.55	555.00	3.54 N	5.50 W	3.54	0.27
583.55	0.27	340.51	583.50	3.66 N	5.56 W	3.66	0.06
611.79	0.20	330.07	611.74	3.76 N	5.60 W	3.76	0.09
640.29	0.06	295.87	640.24	3.81 N	5.64 W	3.81	0.15
669.26	0.22	352.26	669.21	3.88 N	5.66 W	3.88	0.20
698.11	0.31	59.85	698.06	3.97 N	5.60 W	3.97	0.31
726.82	0.44	78.01	726.77	4.03 N	5.43 W	4.03	0.18
755.28	0.72	88.50	755.23	4.06 N	5.15 W	4.06	0.31
766.00	0.72	88.50	765.95	4.06 N	5.01 W	4.06	0.01

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 0.00 DEGREES (GRID)
A TOTAL CORRECTION OF 14.17 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED

HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 766.00 METRES
IS 6.45 METRES ALONG 309.02 DEGREES (GRID)

Final survey projected to TD
RT-MSL = 21.5 m

3.6 *LOT/FIT Reports*

Formation Integrity Test details for the well are summarised in Table 10.

Table 10: Formation Integrity Test Summary

Casing		Depth	Formation Integrity Test Pressure		MW		FIT EMW
In	*mm*	*mMDRT*	*psi*	*Kpa*	*ppg*	*sg*	*sg*
13 ⅜"	340	358	305	2103	8.7	1.04	1.65

A copy of the FIT graph can be found in Appendix 11.

3.7 *Project Logistics*

Logistics and support infrastructure are summarised in Figure 4.

3.7.1 Mobilisation

The rig tow encountered no problems with favorable weather conditions helping mobilization.

3.7.2 Shorebase

Wharf 27 in Port Melbourne was the central shorebase facility.

3.7.3 Helicopters / Crew Changes

Crew changes were conducted out of Bristow's Hanger at Essendon airport with stops in Sale as required.

3.8 *Communications*

Communications were conducted through the Santos system (using the Telstra International Telecommunications Centre, Lansdale W.A. in conjunction with the Newskye Earth Station, Bayswater W.A.), with Marcomm installing the rigsite hardware.

3.9 *Weather Forecasting*

Weather forecasts were supplied by the Bureau of Meteorology to BAS's satisfaction.

4. Unscheduled Events

4.1 *Pre-Spud*

No trouble time occurred during pre-spud and operations were carried out efficiently without incident.

4.2 *Drilling*

During cementing of the conductor, 1.0 hour of trouble time occurred because the ball plug on the side entry sub was too tight, so the cement hose could not be connected. The stand had to be broken and put in the mouse hole to correct the problem. Minimal time was lost due to this incident. The rest of the drilling operations were performed efficiently without incident.

4.3 *Post Drilling*

Plug and Abandonment operations were performed efficiently with the HAC tool releasing successfully and all anchors being retrieved safely.

4.4 *Downtime Analysis*

Downtime analysis can be found in Appendix 11.

FIGURES

Figure 1
Maclean-1 Location Map

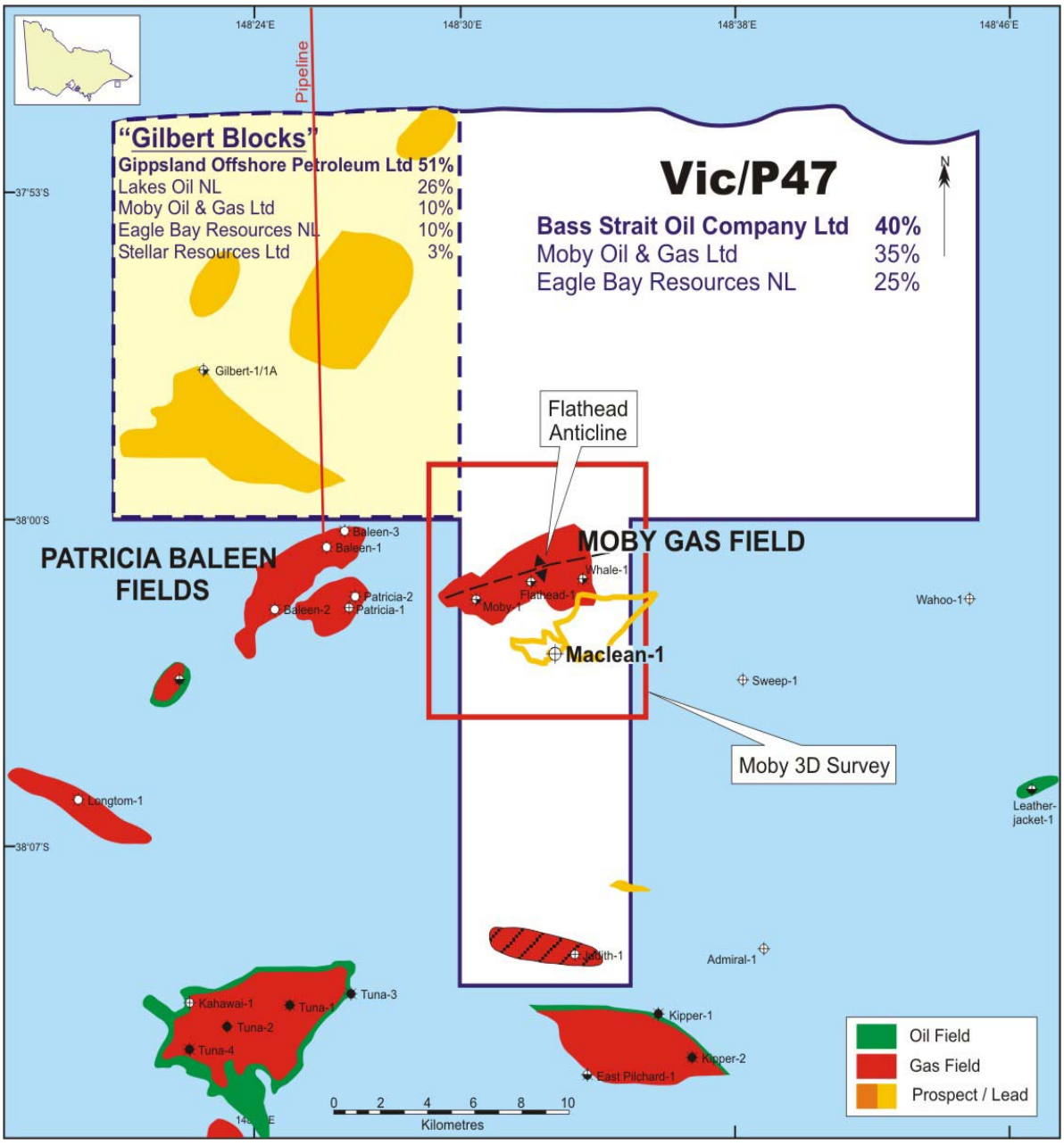

Figure 2
Vic/P47 Location Map

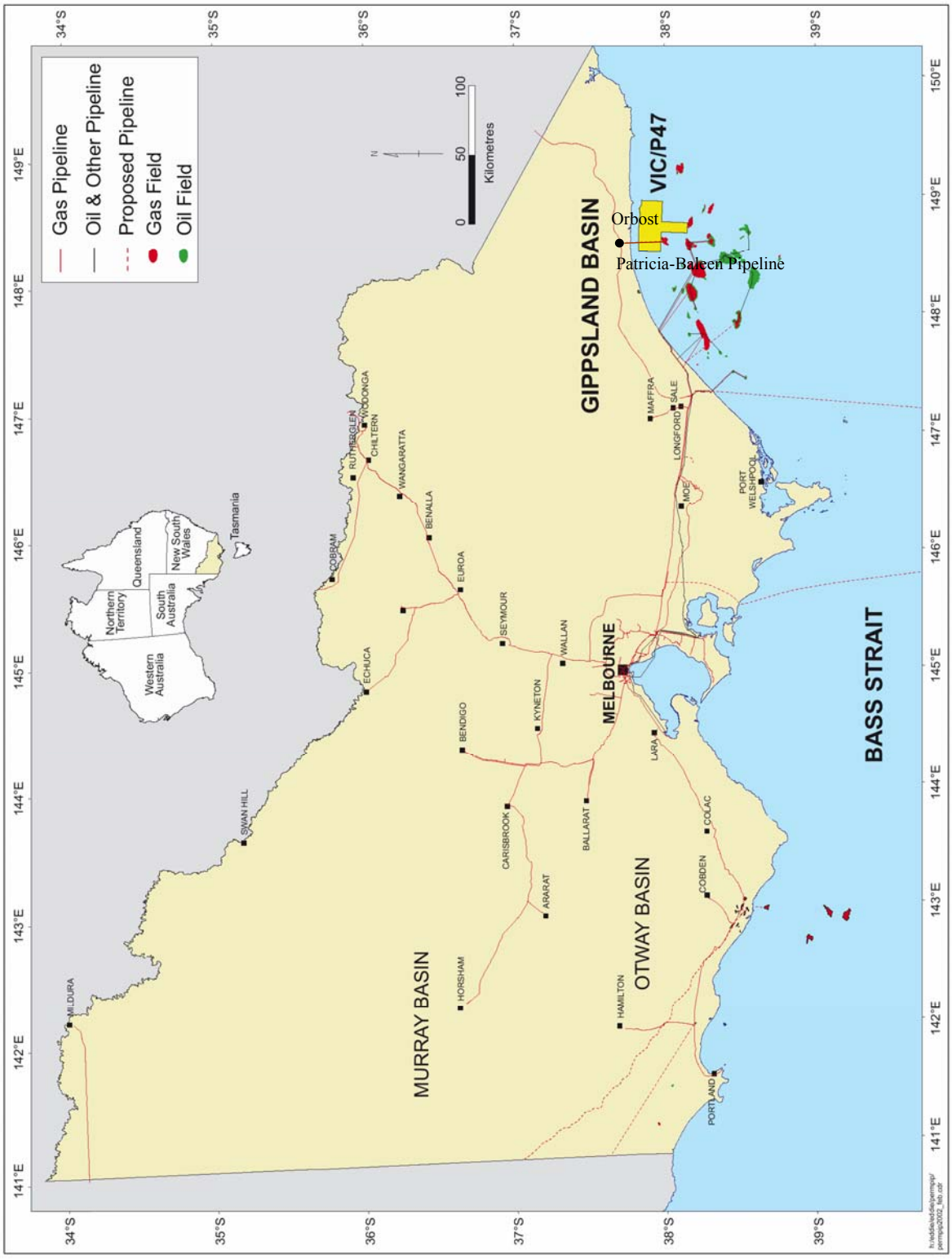

Figure 3
Time versus Depth Curve

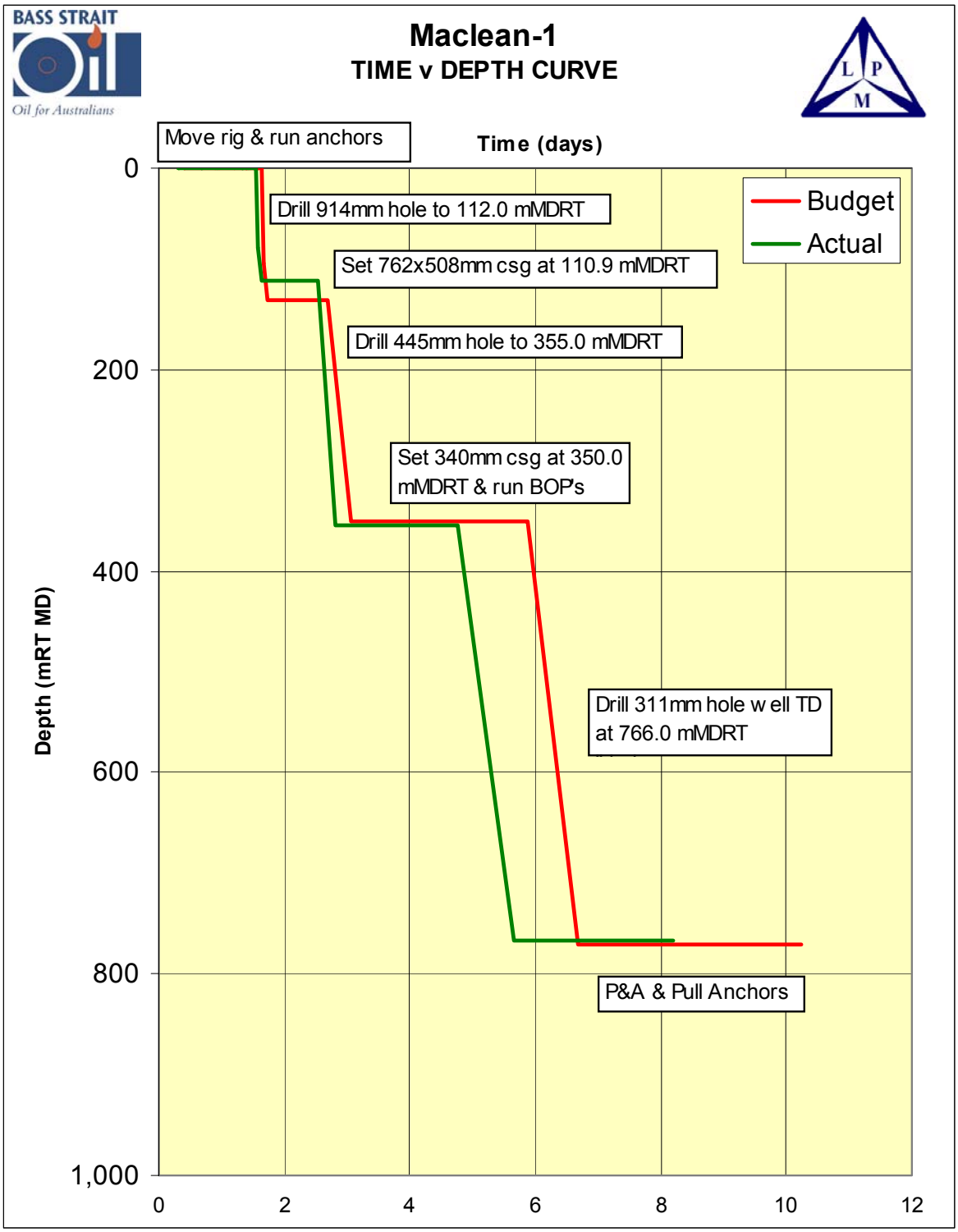

Figure 4
Logistics and Support Infrastructure Diagram

From	To	Air	Sea	Road
Melbourne	Sale			225 km (3 Hrs)
Essendon	Maclean-1	170 nM (100 min)		
Melbourne	Maclean-1		270 nM (23 Hrs)	
Eden	Maclean-1		115 nM (10 Hrs)	

APPENDIX 1

CUTTINGS SAMPLE DESCRIPTIONS

(By Bass Strait Oil Company Ltd)

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Maclean-1 - CUTTINGS DESCRIPTION SHEET

From 355.0-766.0 mMDRT **Wellsite Geologists: Rob Blackmore / Geoff Geary**

Depth m	%	Lithology and Show Descriptions	Ca%	Mg%
360	100 Tr	**Calcilutite**, very light to medium light grey, soft, amorphous, argillaceous in part, trace shell fragments, forams, bryozoan fragments. **Calcarenite,** pale yellowish-brown to light grey, firm-hard, argillaceous in part, trace glauconite grains. **Note:** abundant cement contamination.		
370	100 Tr	**Calcilutite,** as above, with trace bryozoans, shell fragments and large forams, no cement contamination. **Calcarenite,** as above.		
380	80 20	**Calcilutite,** as above with trace bryozoans, light yellowish brown shell fragments and large forams. **Marl,** medium dark grey, very soft, dispersive, amorphous, 35-45% argillaceous matrix grading to **Argillaceous Calcilutite,** trace calcisilt, trace very fine dark green disseminated glauconite, trace fossil fragments and forams. **Note:** poor physical samples, soft, dispersive.		
390	80 20 Tr	**Calcilutite,** as above, with trace bryozoans, shell fragments and large forams (?*Amphistegina*). **Marl,** medium dark grey, very soft, dispersive, amorphous, 35-45% argillaceous matrix grading to *Argillaceous Calcilutite,* trace calcisilt, trace very fine dark green disseminated glauconite, trace fossil fragments and forams. **Note,** poor physical samples, soft, dispersive. **Calcarenite,** as above.	48	
400	100 Tr	**Calcilutite,** as above, argillaceous, with trace bryozoans, shell fragments and large forams. **Calcarenite,** as above.	43	
410	50 40 10	**Calcilutite**, very light to medium light grey, soft, amorphous, dispersive, 10-20% argillaceous matrix grading to *Argillaceous Calcilutite*, trace shell fragments (forams, bryozoan fragments), trace fine-medium glauconite. **Calcilutite, argillaceous**, medium grey to medium dark grey, 20-35% argillaceous matrix, grading to *Calcilutite*, trace fine dark green disseminated glauconite and nodular glauconite, trace fine pyrite & coarse nodular pyrite. **Marl,** medium dark grey, very soft, dispersive, amorphous, 35-45% argillaceous matrix grading to *Argillaceous Calcilutite,* trace calcisilt, trace very fine dark green disseminated glauconite, trace fossil fragments and forams. **Note,** poor physical samples, soft, dispersive.	44	
420	30 50 20	**Calcilutite**, as above. **Calcilutite, argillaceous,** as above. **Marl,** as above.	42	
430	50 40 10	**Calcilutite**, as above. **Calcilutite, argillaceous,** as above. **Marl,** as above.	47	
440	30 60 10	**Calcilutite**, as above. **Calcilutite, argillaceous,** as above. **Marl,** as above.	45	
450	20 40	**Calcilutite**, as above. **Calcilutite, argillaceous,** as above.	37	

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Maclean-1 - CUTTINGS DESCRIPTION SHEET

Depth m	%	Lithology and Show Descriptions	Ca%	Mg%
	20	**Marl,** medium dark grey, very soft, dispersive, amorphous, 35-45% argillaceous matrix grading to *Argillaceous Calcilutite,* trace calcisilt, trace very fine dark green disseminated glauconite, trace fossil fragments and forams.		
	20	**Claystone, calcareous,** medium dark to dark grey, soft, amorphous, dispersive, 15-25% calcareous matrix grading to *Marl,* trace very fine dark green disseminated glauconite, trace fossil fragments and forams, trace fine pyrite & coarse nodular pyrite.		
460	30	**Calcilutite**, very light to medium light grey, soft, amorphous, dispersive, 10-20% argillaceous matrix grading to Argillaceous Calcilutite, trace shell fragments (forams, bryozoan fragments); trace fine-medium glauconite.	29	
	30	**Calcilutite, argillaceous**, medium grey to medium dark grey, very soft, amorphous, dispersive, 20-35% argillaceous matrix, grading to *Calcilutite*, trace very fine dark green glauconite grains trace fine dark green disseminated glauconite and nodular glauconite, trace fine pyrite & coarse nodular pyrite.		
	20	**Marl,** as above.		
	20	**Claystone, calcareous,** as above.		
		Note: poor physical samples, soft, dispersive.		
470	30	**Calcilutite**, as above.	40	
	40	**Calcilutite, argillaceous,** as above.		
	20	**Marl,** as above.		
	10	**Claystone, calcareous,** as above.		
480	20	**Calcilutite**, as above.	43	
	50	**Calcilutite, argillaceous,** as above.		
	20	**Marl,** as above.		
	10	**Claystone, calcareous,** as above.		
490	20	**Calcilutite**, as above.	37	
	50	**Calcilutite, argillaceous,** as above.		
	20	**Marl,** as above.		
	10	**Claystone, calcareous,** as above.		
500	30	**Calcilutite**, as above.	44	
	40	**Calcilutite, argillaceous,** as above.		
	20	**Marl,** as above.		
	10	**Claystone, calcareous,** medium grey to medium dark grey, soft, amorphous, dispersive, 15-25% calcareous matrix grading to *Marl,* trace very fine dark green disseminated glauconite, trace fossil fragments and forams, trace fine pyrite & coarse nodular pyrite.		
		Note: poor physical samples, soft, dispersive.		
510	20	**Calcilutite**, as above.	50	
	50	**Calcilutite, argillaceous**, very light to medium light grey, very soft, amorphous, dispersive, 20-35% argillaceous matrix, grading to *Calcilutite*, trace fine dark green disseminated glauconite and nodular glauconite, trace fine pyrite & coarse nodular pyrite.		
	20	**Marl,** as above.		
	10	**Claystone, calcareous,** as above.		
520	20	**Calcilutite**, very light to medium light grey, soft, amorphous, dispersive, 10-20% argillaceous matrix grading to *Argillaceous Calcilutite*, trace shell fragments (forams, bryozoan fragments); trace fine-medium glauconite.	46	

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Maclean-1 - CUTTINGS DESCRIPTION SHEET

Depth m	%	Lithology and Show Descriptions	Ca%	Mg%
	50	**Calcilutite, argillaceous,** as above.		
	20	**Marl,** as above.		
	10	**Claystone, calcareous,** as above.		
530	20	**Calcilutite, argillaceous**, very light to medium light grey, very soft, amorphous, dispersive, 20-35% argillaceous matrix, grading to *Marl*, trace fine dark green disseminated glauconite and nodular glauconite, trace fine pyrite.	29	
	30	**Marl,** light medium grey, very soft, dispersive, amorphous, 35-45% clay matrix grading to *Calcareous Claystone*, trace very fine dark green disseminated glauconite and coarse nodules, trace fossil fragments and forams.		
	50	**Claystone, calcareous,** medium grey to medium dark grey, minor dark greenish grey, soft, amorphous, dispersive, 15-35% calcareous matrix grading to *Marl,* trace very fine dark green disseminated glauconite, trace fossil fragments and forams, trace fine pyrite & coarse nodular pyrite.		
540	30	**Calcilutite, argillaceous**, very light to medium light grey, very soft, amorphous, dispersive, slightly firm in part, 20-35% argillaceous matrix, grading to *Marl*, trace-5% calcisilt, trace fine dark green disseminated glauconite and coarse nodular glauconite, trace fine pyrite.	31	
	30	**Marl,** as above.		
	40	**Claystone, calcareous,** as above.		
550	20	**Calcilutite, argillaceous,** as above.	40	
	40	**Marl,** as above.		
	40	**Claystone, calcareous,** medium grey to medium dark grey, minor dark greenish grey and brownish grey, soft, amorphous, dispersive, to slightly firm, blocky, 15-35% calcareous matrix grading to *Marl,* trace-5% calcisilt, increasingly glauconitic with trace to occasionally up to 5% fine dark green disseminated glauconite and coarse nodular glauconite, trace fossil fragments and forams (incl. forams with pyrite filled tests), trace fine pyrite & coarse nodular pyrite.		
560	40	**Calcilutite, argillaceous**, very light to medium light grey, very soft, amorphous, dispersive, slightly firm in part, 20-35% argillaceous matrix, grading to *Marl*, trace-5% calcisilt, trace fine dark green disseminated glauconite and coarse nodular glauconite, trace fine pyrite.	47	
	30	**Marl,** light medium grey, very soft to soft, dispersive, amorphous, to slightly firm, blocky, 35-45% clay matrix grading to *Argillaceous Calcilutite* in part, trace to 5% calcisilt, trace very fine dark green disseminated glauconite, trace fossil fragments and forams.		
	30	**Claystone, calcareous,** as above.		
570	20	**Calcarenite,** white to light grey, pale yellowish brown to dark yellowish brown, pale yellowish orange, firm-hard, medium to coarse calcareous fossil fragments (shell fragments, bryozoan, spicules & forams), 5-10% calcisilt, partly recrystallised, trace-5% fine to coarse nodular dark green glauconite, trace pyrite.	67	
	30	**Calcilutite, argillaceous,** as above.		
	30	**Marl,** as above.		
	20	**Claystone, calcareous,** as above.		
		Carbide at 566m		
580	30	**Calcarenite,** as above.	52	

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Maclean-1 - CUTTINGS DESCRIPTION SHEET

Depth m	%	Lithology and Show Descriptions	Ca%	Mg%
	20 30 40	**Calcilutite, argillaceous,** as above. **Marl,** as above. **Claystone, calcareous,** as above. **Note:** run carbide at 566 m, hole in gauge.		
588	40 40 15 5	**Claystone, calcareous,** medium grey to medium dark grey, minor dark greenish grey and brownish grey, soft, amorphous, dispersive, to slightly firm, blocky, 15-35% calcareous matrix grading to *Marl,* trace-5% calcisilt, increasingly glauconitic with trace to occasionally up to 5% fine dark green disseminated glauconite and coarse nodular glauconite, trace fossil fragments and forams (incl. forams with pyrite filled tests), trace fine pyrite & coarse nodular pyrite. **Claystone,** dark yellowish orange to moderate yellowish brown and light brownish yellow, soft to slightly firm, amorphous to blocky, 5-20% silt to very fine sandstone (vfL-fL) grading to *Silty Claystone*, trace fine to medium nodular dark green glauconite, trace nodular pyrite. **Siltstone,** medium to dark yellowish brown, quartz silt to very fine quartz, soft to firm, occasionally hard, non-calcareous, 10-20% detrital clay matrix, grading to *Argillaceous Siltstone*, locally arenaceous with 10-20% very fine quartz grading to *Sandstone* and *Arenaceous Siltstone*, trace-15% fine to coarse glauconite, locally occurring in patches, trace-1% white mica, soft, nil visible porosity, no fluorescence. **Sandstone,** argillaceous, lithic arkose, medium yellowish brown to green, loose, very fine to fine (vfL-fL), subangular-subrounded, lithic with up to 40% lithic grains, moderately to very well sorted, 5-10% silt, 5-15% authigenic matrix (chlorite, kaolinite and illite/smectite), trace-10% fine glauconite and glauconite nodules, 5-10% mica (biotite and muscovite), trace-5% pyrite (framboidal in part), trace coarse siderite nodules, nil-poor inferred porosity, no fluorescence.	10	
591	30 50 20	**Claystone,** as above. **Siltstone,** medium to dark yellowish brown and greyish brown, dark brown grey to brown black, soft to firm, occasionally hard, quartz silt to very fine sand (silt-vfL), grading to *Arenaceous Siltstone*, non-calcareous, 10-25% detrital clay matrix grading to *Argillaceous Siltstone*, trace-10% fine to coarse glauconite, locally occurring in patches, trace-1% white mica. **Sandstone,** as above, nil-poor inferred porosity, no fluorescence or cut	2	
594	40 40 20	**Claystone,** as above. **Siltstone,** as above. **Sandstone**, lithic arkose, medium yellowish brown, dark brown grey, light grey to brown black in part, firm, friable to soft, loose, very hard in part, very fine - fine (vfL-fL, dom. vfU), subangular-subrounded, lithic with up to 35% lithic grains (chert, volcanic and feldspathic), moderately to very well sorted, 5-10% silt, 10-15% authigenic clay matrix (chlorite, kaolinite and minor illite/smectite), trace-10% detrital clay matrix, 5-10% mica (biotite and muscovite), trace-5% pyrite (framboidal in part), trace-10% dark lithics (titanium oxide with trace zircon and tourmaline), trace-10% fine glauconite, pelletal and coarse nodular glauconite in part, poor inferred porosity, no	3	

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Maclean-1 - CUTTINGS DESCRIPTION SHEET

Depth m	%	Lithology and Show Descriptions	Ca%	Mg%
		fluorescence or cut.		
597	40	**Claystone,** medium to dark yellowish brown and greyish brown, dark brown grey to brown black in part, soft to slightly firm, amorphous to blocky, hard in part (concretionary), 5-20% silt to very fine sandstone (vfL-fL) grading to *Silty Claystone*, trace cemented (concretionary), trace-5% fine to medium nodular dark green glauconite, trace nodular pyrite and rounded concretions.	6	
	30	**Siltstone,** as above.		
	30	**Sandstone,** as above.		
600	30	**Claystone,** as above.	11	
	30	**Siltstone,** as above.		
	40	**Sandstone**, lithic arkose, medium yellowish brown, dark brown grey, light grey, greyish green to brown black in part, firm, friable to soft, loose, very hard in part, very fine - fine (vfL-fL, dom. vfU), subangular-subrounded, lithic with up to 35% lithic grains (chert, volcanic and feldspathic), moderately to very well sorted, 5-10% silt, 10-15% authigenic clay matrix (chlorite, kaolinite and minor illite/smectite), trace-10% detrital clay matrix, 5-10% mica (biotite and muscovite), trace-5% pyrite (framboidal in part), trace-10% dark lithics (titanium oxide with trace zircon and tourmaline), non-calcareous, trace-10% sideritic and pyritic cement, variably glauconitic with trace-20% coarse patchy and pelletal glauconite, poor inferred porosity, no fluorescence or cut.		
603	30	**Claystone,** as above.		
	30	**Siltstone,** moderate to dark yellowish brown and greyish brown, dark brown grey to brown black, soft to firm, occasionally hard, quartz silt to very fine sand (silt-vfL), grading to *Arenaceous Siltstone*, non-calcareous, 10-25% detrital clay matrix grading to *Argillaceous Siltstone*, trace-20% fine to coarse glauconite, locally occurring in patches, trace mica.		
	40	**Sandstone,** as above.		
	Tr	**Greensand,** olive brown**,** dark yellowish green to dusky green, soft -firm, loose grains in part, very fine to coarse grained, trace nodular glauconite, trace -20% quartz sand and silt.		
606	20	**Claystone,** medium to dark yellowish brown and greyish brown, dark brown grey to brown black in part, soft to slightly firm, amorphous to blocky, hard in part, 5-20% silt to very fine sandstone (vfL-fL) grading to *Silty Claystone*, trace well-rounded fine to coarse grained weathered (dusky brown) glauconite pellets, generally firm to hard (“pisolitic” glauconite), trace-10% fine to medium nodular dark green glauconite, trace rounded cemented “pisolitic” glauconite, trace nodular pyrite and rounded concretions.		
	40	**Siltstone,** as above, increasingly glauconitic.		
	30	**Sandstone**, lithic arkose, medium yellowish brown, dark brown grey, light grey, greyish green to brown black in part, firm, friable to soft, loose, very hard in part, very fine - fine (vfL-fL, dom. vfL), subangular-subrounded, lithic with up to 30% lithic grains (chert, volcanic and feldspathic), moderately to very well sorted, 5-10% silt, 10-15% authigenic clay matrix (chlorite, kaolinite and minor illite/smectite), trace-10% detrital clay matrix, 5-10% mica (biotite and muscovite), trace-5% pyrite (framboidal in part), trace-10% dark lithics (titanium oxide with trace zircon and		

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Maclean-1 - CUTTINGS DESCRIPTION SHEET

Depth m	%	Lithology and Show Descriptions	Ca%	Mg%
		tourmaline), non-calcareous, trace-10% sideritic and pyritic cement, variably glauconitic with trace-30% coarse patchy and pelletal glauconite, grading to *Glauconitic Sandstone*, poor inferred porosity, no fluorescence or cut.		
	10	**Greensand,** as above.		
609	50	**Claystone,** moderate to dark yellowish brown and greyish brown, soft to slightly firm, amorphous to blocky, hard in part (concretionary), 5-20% silt to very fine sandstone (vfL-fL) grading to *Silty Claystone*, trace-20% fine to medium nodular dark green glauconite, trace well-rounded fine to coarse grained weathered (dusky brown) glauconite pellets, generally firm to hard ("pisolitic" glauconite), grading to *Glauconitic Claystone* in part, trace nodular pyrite and rounded concretions.		
	30	**Siltstone,** as above.		
	20	**Sandstone,** as above.		
	Tr	**Greensand,** as above.		
612	30	**Claystone,** moderate to dark yellowish brown and greyish brown, moderate reddish brown and dusky yellowish orange in part, soft to slightly firm, amorphous to blocky, hard in part (concretionary), 5-20% silt to very fine sandstone (vfL-fL) grading to *Silty Claystone*, trace cemented (concretionary), trace-20% fine to medium nodular dark green glauconite, grading to *Glauconitic Claystone* in part, trace nodular pyrite and rounded concretions.		
	50	**Siltstone,** as above.		
	20	**Sandstone,** as above.		
	Tr	**Greensand,** as above.		
		Note, sample washing out, abundant calcareous cavings.		
615	50	**Claystone,** moderate to dark yellowish brown and greyish brown, increasing moderate reddish brown and dusky yellowish orange, soft to slightly firm, amorphous to blocky, hard in part (concretionary), 5-20% silt to very fine sandstone (vfL-fL) grading to *Silty Claystone*, trace-20% well-rounded fine to coarse grained weathered (dusky brown) glauconite pellets, generally firm to hard ("pisolitic" glauconite), grading to *Glauconitic Claystone* in part, trace nodular pyrite and rounded concretions, trace large forams (?Amphistegina), corals & bryozoan fragments.		
	20	**Siltstone,** moderate to dark yellowish brown and greyish brown, to moderate reddish brown, soft to firm, occasionally hard, quartz silt to very fine sand (silt-vfL), grading to *Arenaceous Siltstone*, non-calcareous, 10-25% detrital clay matrix grading to *Argillaceous Siltstone*, trace-10% fine to coarse glauconite, locally occurring in patches, trace mica.		
	30	**Sandstone**, lithic arkose, medium yellowish brown, dark brown grey, moderate to dark yellowish brown and greyish brown, firm to very hard, friable, to soft, loose, very fine - fine (vfL-fL, dom. vfL), subangular-subrounded, lithic with up to 30% lithic grains (chert, volcanic and feldspathic), moderately to very well sorted, 5-10% silt, 10-15% authigenic clay matrix (chlorite, kaolinite and minor illite/smectite), trace-10% detrital clay matrix, 5-10% mica (biotite and muscovite), trace-5% pyrite (framboidal in part), trace-10% dark lithics (titanium oxide with trace zircon and tourmaline), non-calcareous, trace -15% sideritic and trace		

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Maclean-1 - CUTTINGS DESCRIPTION SHEET

Depth m	%	Lithology and Show Descriptions	Ca%	Mg%
		pyritic cement, variably glauconitic with trace-5% coarse patchy and pelletal glauconite, nil-poor inferred porosity, no fluorescence or cut.		
618	50 20 30	**Claystone,** as above. **Siltstone,** as above. **Sandstone**, lithic arkose, as above, with trace coarse to very coarse loose quartz sandstone grains, occasionally granular, subangular to moderately rounded, grading to *Conglomerate*.		
621	20 50 30	**Claystone,** as above. **Siltstone,** as above. **Sandstone**, lithic arkose, as above, with trace coarse to very coarse loose quartz sandstone grains, subangular to moderately rounded.		
624	40

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Maclean-1 - CUTTINGS DESCRIPTION SHEET

Depth m	%	Lithology and Show Descriptions	Ca%	Mg%
		loose quartz sandstone grains, subangular and broken grains to moderately rounded, nil-poor inferred porosity.		
633	95	**Claystone,** white to very light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix.		
	5	**Sandstone**, lithic arkose, as above, with trace-5% very coarse, occasionally granular, loose quartz sandstone grains, subangular and broken grains to moderately rounded, grading to *Conglomerate*, stained with glauconite in part, trace coarse pyritic cement, no fluorescence or cut.		
636	100	**Sandstone,** clear-frosted, translucent, trace white to light grey, loose, coarse to very coarse and granular (dom cU), conglomeratic in part, quartzose, angular (broken fragments) to well rounded, poorly sorted, trace argillaceous matrix coating grains, trace nodular pyrite and pyritic cement, trace lithics, trace rounded carbonaceous fragments, very good inferred porosity, no fluorescence or cut.	2	
639	30	**Claystone,** white to very light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.		
	70	**Sandstone,** as above.		
	Tr	**Coal,** brownish black to black, firm, brittle, fibrous, very fine to large fragments.		
642	95	**Claystone,** as above.		
	5	**Sandstone,** as above.		
	Tr	**Coal,** brownish black to black, soft to firm, brittle, fibrous, very fine to large fragments.		
645	95	**Claystone,** as above.		
	5	**Sandstone,** as above.		
	Tr	**Coal,** brownish black to black, soft to firm, brittle, fibrous, very fine to large fragments.		
648	70	**Claystone,** as above.		
	25	**Sandstone,** clear-frosted, translucent, white and light to medium dark grey, loose, coarse to very coarse and granular (dom cU), conglomeratic in part, quartzose, angular (broken fragments) to well rounded, poorly sorted, trace argillaceous matrix coating grains, trace nodular pyrite and pyritic cement, trace lithics, trace rounded carbonaceous fragments, very good inferred porosity, no fluorescence or cut.		
	5	**Conglomerate,** clear-frosted, translucent, white and light to medium dark grey, loose, granular, quartzose, angular (broken fragments) to well rounded, poorly sorted, trace white argillaceous matrix coating grains, very good inferred porosity, no fluorescence or cut.		
	Tr	**Coal,** brownish black to black, soft to firm, brittle, fibrous, very fine to large fragments.		
651	30	**Claystone,** as above.		
	30	**Sandstone,** as above.		
	40	**Conglomerate,** as above.		
	Tr	**Coal,** as above.		
654	10	**Claystone,** as above.		
	30	**Sandstone,** as above.		
	60	**Conglomerate,** as above.		

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Maclean-1 - CUTTINGS DESCRIPTION SHEET

Depth m	%	Lithology and Show Descriptions	Ca%	Mg%
657	10	**Claystone,** as above.		
	20	**Sandstone,** clear-frosted, translucent, white and light to medium dark grey, loose, coarse to very coarse and granular (dom cU), conglomeratic in part, quartzose, angular (broken fragments) to well rounded, poorly sorted, trace argillaceous matrix coating grains, trace nodular pyrite and pyritic cement, trace lithics, trace rounded carbonaceous fragments, very good inferred porosity, no fluorescence or cut.		
	70	**Conglomerate,** as above.		
660	10	**Claystone,** as above.		
	10	**Sandstone,** as above.		
	80	**Conglomerate,** as above.		
663	10	**Claystone,** as above.		
	10	**Sandstone,** as above.		
	80	**Conglomerate,** as above.		
666	10	**Claystone,** as above.		
	10	**Sandstone,** as above.		
	80	**Conglomerate,** as above.		
669	20	**Claystone,** white to very light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.		
	20	**Sandstone,** clear-frosted, translucent, white and light to medium dark grey, loose, coarse to very coarse and granular (dom cU), conglomeratic in part, quartzose, angular (broken fragments) to well rounded, poorly sorted, trace argillaceous matrix coating grains, trace nodular pyrite and pyritic cement, trace lithics, trace rounded carbonaceous fragments, very good inferred porosity, no fluorescence or cut.		
	60	**Conglomerate,** clear-frosted, translucent, white and light to medium dark grey, loose, granular, quartzose, angular (broken fragments) to well rounded, poorly sorted, trace white argillaceous matrix coating grains, very good inferred porosity, no fluorescence or cut.		
672	20	**Claystone,** white to very light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.	0	
	20	**Sandstone,** clear-frosted, translucent, white and light to medium dark grey, loose, coarse to very coarse and granular (dom cU), conglomeratic in part, quartzose, angular (broken fragments) to well rounded, poorly sorted, trace argillaceous matrix coating grains, trace nodular pyrite and pyritic cement, trace lithics, trace rounded carbonaceous fragments, very good inferred porosity, no fluorescence or cut.		
	60	**Conglomerate,** clear-frosted, translucent, white and light to medium dark grey, loose, granular, quartzose, angular (broken fragments) to well rounded, poorly sorted, trace white argillaceous matrix coating grains, very good inferred porosity, no fluorescence or cut.		
675	20	**Claystone,** white to very light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.		
	20	**Sandstone,** clear-frosted, translucent, white and light to medium dark grey, loose, coarse to very coarse and granular (dom cU), conglomeratic in part, quartzose, angular (broken fragments) to		

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Maclean-1 - CUTTINGS DESCRIPTION SHEET

Depth m	%	Lithology and Show Descriptions	Ca%	Mg%
		well rounded, poorly sorted, trace argillaceous matrix coating grains, trace nodular pyrite and pyritic cement, trace lithics, trace rounded carbonaceous fragments, very good inferred porosity, no fluorescence or cut.		
	60	**Conglomerate,** clear-frosted, translucent, white and light to medium dark grey, loose, granular, quartzose, angular (broken fragments) to well rounded, poorly sorted, trace white argillaceous matrix coating grains, very good inferred porosity, no fluorescence or cut.		
678	40 30 30	**Claystone,** as above. **Sandstone,** as above. **Conglomerate,** as above.		
681	50 30 20	**Claystone,** as above. **Sandstone,** as above. **Conglomerate,** as above.		
684	60 20 20	**Claystone,** white to very light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains. **Sandstone,** as above. **Conglomerate,** as above.	6	
687	80 10 10	**Claystone,** as above. **Sandstone,** as above. **Conglomerate,** as above.		
690	80 10 10	**Claystone,** as above. **Sandstone,** as above. **Conglomerate,** as above.		
693	90 5 5	**Claystone,** white to very light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains. **Sandstone,** as above. **Conglomerate,** as above.		
696	90 5 5	**Claystone,** as above. **Sandstone,** as above. **Conglomerate,** as above.		
699	90 5 5	**Claystone,** white to very light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains. **Sandstone,** as above. **Conglomerate,** as above.		
702	95 Tr 5	**Claystone,** white to very light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains. **Sandstone,** as above. **Conglomerate,** as above.		
705	95 Tr 5	**Claystone,** white to very light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains. **Sandstone,** as above. **Conglomerate,** as above.		
708	100 Tr	**Claystone,** white to very light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains. **Sandstone,** as above.		

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Maclean-1 - CUTTINGS DESCRIPTION SHEET

Depth m	%	Lithology and Show Descriptions	Ca%	Mg%
	Tr	**Conglomerate,** as above.		
711	100	**Claystone,** white to very light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.		
	Tr	**Sandstone,** as above.		
	Tr	**Conglomerate,** as above.		
714	95	**Claystone,** light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.	0	
	5	**Sandstone,** clear-frosted, translucent, white and light to medium dark grey, loose to rarely cemented fragments, fine to medium (fU-mL), poorly sorted, trace argillaceous matrix cementing grains, trace nodular pyrite and pyritic cement, trace lithics, no fluorescence or cut.		
717	90	**Claystone,** very light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.		
	10	**Sandstone,** clear-frosted, translucent, white and light to medium dark grey, loose to rarely cemented fragments, fine to medium (fU-mL), poorly sorted, trace argillaceous matrix cementing grains, trace nodular pyrite and pyritic cement, trace lithics, no fluorescence or cut.		
720	90	**Claystone,** very light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.		
	10	**Sandstone,** clear-frosted, translucent, white and light to medium dark grey, loose to rarely cemented fragments, fine to medium (fU-mL), poorly sorted, trace argillaceous matrix cementing grains, trace nodular pyrite and pyritic cement, trace lithics, no fluorescence or cut.		
723	100	**Claystone,** very light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.		
	Tr	**Sandstone,** clear-frosted, translucent, white and light to medium dark grey, loose to rarely cemented fragments, fine to medium (fU-mL), poorly sorted, trace argillaceous matrix cementing grains, trace nodular pyrite and pyritic cement, trace lithics, no fluorescence or cut.		
726	95	**Claystone,** very light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.		
	5	**Sandstone,** clear-frosted, translucent, white and light to medium dark grey, loose to rarely cemented fragments, fine to medium (fU-mL), poorly sorted, trace argillaceous matrix cementing grains, trace nodular pyrite and pyritic cement, trace lithics, no fluorescence or cut.		
	Tr	**Coal,** brownish black to black, soft to firm, brittle, fibrous, very fine to small fragments.		
729	90	**Claystone,** very light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.		
	10	**Sandstone,** clear-frosted, translucent, white and light to medium dark grey, loose to rarely cemented fragments, fine to medium (fU-mL), poorly sorted, trace argillaceous matrix cementing		

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Maclean-1 - CUTTINGS DESCRIPTION SHEET

Depth m	%	Lithology and Show Descriptions	Ca%	Mg%
		grains, trace nodular pyrite and pyritic cement, trace lithics, no fluorescence or cut.		
	Tr	**Coal,** brownish black to black, soft to firm, brittle, fibrous, very fine to small fragments.		
732	90	**Claystone,** very light grey to brownish-grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.		
	10	**Sandstone,** clear-frosted, translucent, white and light to medium dark grey, loose to rarely cemented fragments, fine to medium (fU-mL), poorly sorted, trace argillaceous matrix cementing grains, trace nodular pyrite and pyritic cement, trace lithics, no fluorescence or cut.		
	Tr	**Coal,** brownish black to black, soft to firm, brittle, fibrous, very fine to small fragments.		
735	95	**Claystone,** very light grey to brownish-grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.		
	5	**Sandstone,** clear-frosted, translucent, white and light to medium dark grey, loose to rarely cemented fragments, fine to medium (fU-mL), poorly sorted, trace argillaceous matrix cementing grains, trace nodular pyrite and pyritic cement, trace lithics, no fluorescence or cut.		
	Tr	**Coal,** brownish black to black, soft to firm, brittle, fibrous, very fine to small fragments.		
738	95	**Claystone,** light grey to brownish-grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.		
	5	**Sandstone,** clear-frosted, translucent, white and light to medium dark grey, loose to very rarely cemented fragments, fine to medium (fU-mL), poorly sorted, trace argillaceous matrix cementing grains, trace nodular pyrite and pyritic cement, trace lithics, no fluorescence or cut.		
	Tr	**Coal,** brownish black to black, soft to firm, brittle, fibrous, very fine to small fragments.		
741	95	**Claystone,** light grey to brownish-grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.		
	5	**Sandstone,** clear-frosted, translucent, white and light to medium dark grey, loose to very rarely cemented fragments, fine to medium (fU-mL), poorly sorted, trace lithic fragments, trace argillaceous matrix cementing grains, trace nodular pyrite and pyritic cement, trace lithics, no fluorescence or cut.		
	Tr	**Coal,** brownish black to black, soft to firm, brittle, fibrous, very fine to small fragments.		
744	100	**Claystone,** light grey to brownish-grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.		
747	100	**Claystone,** light grey to brownish-grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains, trace pyrite.		
750	100	**Claystone,** light grey to brownish-grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains, trace pyrite.		
753	90	**Claystone,** light grey to brownish-grey, soft, dispersive, washing		

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Maclean-1 - CUTTINGS DESCRIPTION SHEET

Depth m	%	Lithology and Show Descriptions	Ca%	Mg%
		out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.		
	10	**Sandstone,** clear-frosted, translucent, white and light to medium dark grey, loose to very rarely cemented fragments, fine to medium (fU-mL), poorly sorted, trace lithic fragments, trace argillaceous matrix cementing grains, trace nodular pyrite and pyritic cement, trace lithics, no fluorescence or cut.		
	Tr	**Coal,** brownish black to black, soft to firm, brittle, fibrous, very fine to small fragments.		
756	95	**Claystone,** light grey to brownish-grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.		
	5	**Sandstone,** clear-frosted, translucent, white and light to medium dark grey, loose to very rarely cemented fragments, fine to medium (fU-mL), poorly sorted, trace lithic fragments, trace argillaceous matrix cementing grains, trace nodular pyrite and pyritic cement, trace lithics, no fluorescence or cut.		
	Tr	**Coal,** brownish black to black, soft to firm, brittle, fibrous, very fine to small fragments.		
759	95	**Claystone,** light grey to brownish-grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.		
	5	**Sandstone,** clear-frosted, translucent, white and light to medium dark grey, loose to very rarely cemented fragments, fine to medium (fU-mL), poorly sorted, trace lithic fragments, trace argillaceous matrix cementing grains, trace nodular pyrite and pyritic cement, trace lithics, no fluorescence or cut.		
	Tr	**Coal,** brownish black to black, soft to firm, brittle, fibrous, very fine to small fragments.		
762	95	**Claystone,** light grey to brownish-grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.		
	5	**Sandstone,** clear-frosted, translucent, white and light to medium dark grey, loose to very rarely cemented fragments, fine to medium (fU-mL), poorly sorted, trace lithic fragments, trace argillaceous matrix cementing grains, trace nodular pyrite and pyritic cement, trace lithics, no fluorescence or cut.		
	Tr	**Coal,** brownish black to black, soft to firm, brittle, fibrous, very fine to small fragments.		
765	100	**Claystone,** light grey to brownish-grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.		
	Tr	**Coal,** brownish black to black, soft to firm, brittle, fibrous, very fine to small fragments.		
766 (TD)	100	**Claystone,** light grey to brownish-grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.		
	Tr	**Coal,** brownish black to black, soft to firm, brittle, fibrous, very fine to small fragments.		

APPENDIX 2

TRACER MONITORING AND ANALYSIS

(By Petrotech Knowledge)

WELL: MACLEAN-1

Tracer Monitoring & Analysis

REPORT TYPE: FINAL

Client	:	Bass Strait Oil Company Ltd
Well	:	Maclean-1
Permit	:	VIC / P-47
Date	:	18 - 20 October 2005
Client Representative	:	Bob Fisher
Date of reporting	:	October 2005
Project number	:	56111
Project co-ordinator	:	Robyn Tamke
Participants	:	Mark Handyside Robyn Tamke
Report prepared by	:	Mark Handyside Robyn Tamke
Report reviewed by	:	Brian Toole
Number of issues	:	4
Distribution Petrotech	:	1
Distribution BSOC	:	3 (1 bound, 1 unbound, 1 CD)

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SUMMARY

A Petrotech representative was onsite for the addition of and monitoring of sodium thiocyanate tracer in the drilling mud during drilling through the zone of interest, so that mud contamination of formation brines obtained during wireline fluid sampling could be evaluated.

At the completion of drilling it was decided that there was no requirement for wireline fluid sampling to be completed. Petrotech was therefore not required to perform any sample analysis.

TABLE OF CONTENTS

Page

1. INTRODUCTION 1

2. OFFSHORE ANALYSIS PROGRAMME 1

3. OFFSHORE ANALYTICAL METHODS 2
3.1 Analytical Methods in Water 2
3.1.1 Thiocyanate (ASTM D4193-89) 2

4. RESULTS 3
Table 4.1 Concentration of Thiocyanate Tracer .v. Lag Depth 3
Figure 1 Plot of Thiocynate Concentrastion vs Lag Depth 4

5. DISCUSSION 5

1. INTRODUCTION

During the period 18 – 20 October 2005, Petrotech supplied technical equipment and personnel to perform monitoring of sodium thiocyanate in drilling mud on the Ocean Patriot rig for the Maclean-1 drilling programme.

This report presents the supporting methods, results and any other ancillary information pertinent to the Maclean-1 project.

2. OFFSHORE ANALYSIS PROGRAMME

Mud Tracer (Thiocyanate Ion) Monitoring

During the drilling through zones of interest, a thiocyanate salt compound was added to the drilling mud at a concentration of 450mg/L. Petrotech monitored thiocyanate concentration from various mud pits and returns, the results of which are presented in tabular and graphical form in Section 4 of this report.

Each mud sample collected was initially filtered to 0.45 microns. The resulting filtrate was evaluated for thiocyanate content using a UV/Visible spectrophotometer. The method used is based on ASTM D4193-89.

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3. OFFSHORE ANALYTICAL METHODS

3.1 Analytical Methods in Water

3.1.1 Thiocyanate (ASTM D4193-89)

Mud samples were filtered using a mud press to recover the filtrate. The filtrate was then analysed to determine the level of thiocyanate present.

Thiocyanate present in the water sample reacts with added ferric ions at a pH of <2 to form a coloured complex that can be determined colorimetrically at 460nm. The measured absorbance at this wavelength is proportional to the thiocyanate content in the sample.

4. RESULTS

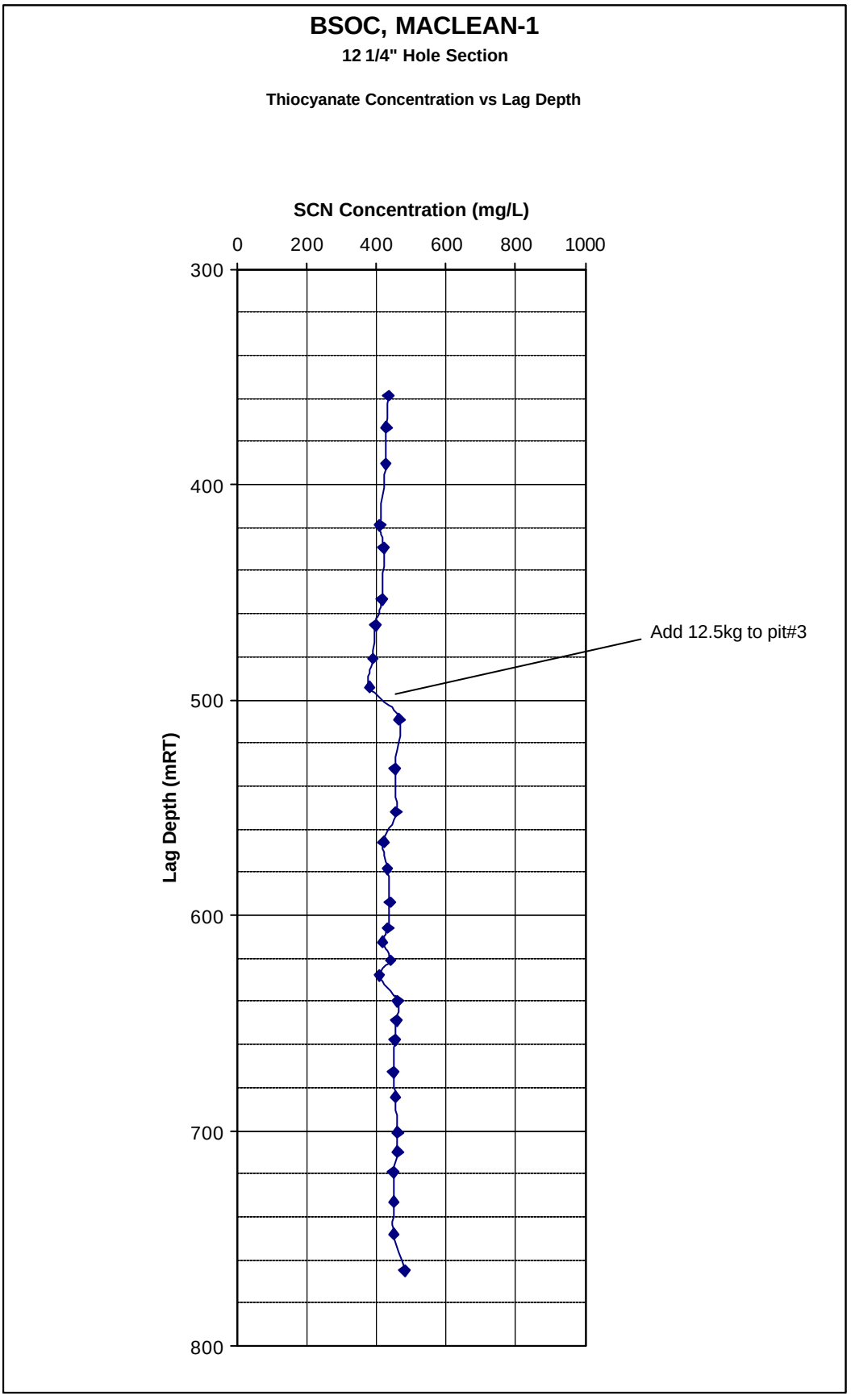
Table 4.1 Concentration of Thiocyanate Tracer .v. Lag Depth

Client	Bass Strait Oil Company Ltd
Well	Maclean-1
Proj. No.	56111

Date	Time	Bit Depth (mMDRT)	LAG Depth (mMDRT)	Sample Location	Concentration (SCN^- mg/L)*	Comments
12 1/4" hole						
18.10.05	18:00	N/a	N/a	pit 3	455	M.01
18.10.05	18:45	N/a	N/a	pit 4	440	M.02
19.10.05	6:40	N/a	N/a	returns	475	M.03
19.10.05	8:45	358.7	358.7	returns	435	M.04
19.10.05	9:45	379.8	373.5	returns	430	M.05
19.10.05	10:15	394.5	390.5	returns	425	M.06
19.10.05	11:00	423.7	419.0	returns	410	M.07
19.10.05	11:30	439.5	429.5	returns	420	M.08
19.10.05	12:05	458.9	453.5	returns	415	M.09
19.10.05	12:35	469.3	465.5	returns	395	M.10
19.10.05	13:30	481.1	481.0	returns	390	M.11
19.10.05	14:15	498.2	494.0	returns	380	12.5kg of scn added M.12
19.10.05	15:15	509.7	509.0	returns	465	M.13
19.10.05	16:10	536.9	532.0	returns	455	M.14
19.10.05	17:00	560.3	552.0	returns	455	M.15
19.10.05	17:30	570.4	566.0	returns	420	M.16
19.10.05	17:50	588.3	578.5	returns	430	M.17
19.10.05	18:10	597.4	594.0	returns	440	M.18
19.10.05	18:50	608.0	606.0	returns	435	M.19
19.10.05	19:20	616.2	612.5	returns	420	M.20
19.10.05	20:00	624.0	621.0	returns	440	M.21
19.10.05	20:45	630.8	628.0	returns	410	M.22
19.10.05	21:40	641.0	640.0	returns	460	M.23
19.10.05	22:30	652.7	649.0	returns	455	M.24
19.10.05	23:20	661.0	658.0	returns	455	M.25
20.10.05	0:20	677.0	673.0	returns	450	M.26
20.10.05	1:10	689.4	684.5	returns	455	M.27
20.10.05	2:00	705.5	701.0	returns	460	M.28
20.10.05	2:40	715.0	710.0	returns	460	M.29
20.10.05	3:25	721.0	719.5	returns	450	M.30
20.10.05	4:15	739.0	733.0	returns	450	M.31
20.10.05	5:05	755.0	748.0	returns	450	M.32
20.10.05	5:35	767.0	765.0	returns	480	M.33

*Tracer concentrations are reported to the nearest 5mg/L SCN^-.

Figure 1 Plot of Thiocyanate Concentration vs Lag Depth



5. DISCUSSION

Petrotech performed tracer analysis of mud filtrate used during the drilling process at Maclean-1. At the completion of drilling it was determined that no further analysis was required by Petrotech.

APPENDIX 3

MUDLOGGING FINAL WELL REPORT

(By GeoServices)

Maclean 1

FINAL WELL REPORT

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CONTENTS

		Page No.
1.0	WELL DATA SUMMARY	**3**
2.0	GENERAL INFORMATION	**4**
2.1	Executive Summary	4
2.2	Geoservices Personnel	5
2.3	Contractor Information	5
2.4	Days vs Depth Progress Chart	6
2.5	Sample Collection & Distribution Summary	7
3.0	GEOLOGICAL INFORMATION	**8**
3.1	Lithology and Show Summary	8
3.2	Gas Ratio Interpretation - Introduction	14
3.3	Explanation of Gas Composition Diagrams	14
3.4	Explanation of Wetness/Balance/Character Curves	15
3.5	Gas Composition Discussion	17
3.6	Gas Ratio Diagrams	18
4.0	PRESSURE ANALYSIS	19
4.1	Introduction	19
4.2	Pressure Summary	21
4.3	Formation Pressure Plot	22
5.0	DRILLING INFORMATION	**23**
5.1	Mud Record	23
5.2	Bit Record	24
5.3	Hydraulic Listing Summary	25
5.4	Drilling Phase Summary	26
5.4.1	914mm (36”) Hole Section	26
5.4.2	445mm (17½”) Hole Section	27
5.4.3	311mm (12¼”) Hole Section	28
6.0	ENCLOSURES – CD	
A.	ASCII Data Disc	
B.	Formation Evaluation Log	Scale 1:500
C.	Drilling Data Log	Scale 1:1000
D.	Gas Ratio Log	Scale 1:500
E.	Pressure Evaluation Log	Scale 1:1000

1.0 WELL DATA SUMMARY

(All depths are measured depths from rotary table (MDRT) unless otherwise specified.)

Well Name	: Maclean 1
Basin	: Gippsland
Permit	: Vic/P47
Operator	: Bass Strait Oil Company Ltd.
Drilling Rig	: Ocean Patriot
Well Classification	: Vertical Exploration
Surface Location	
Latitude	: 38° 02' 46.32" S
Longitude	: 148° 32' 52.92" E
Easting	: 635 831.9
Northing	: 5 787 927.9
Depth Reference	: M.S.L. (mean sea level)
Water Depth	: 57.0 m
Rotary Table	: 21.5 m
Rotary Table to Seabed	: 78.5 m
Casing Data	: (1) 762x508 mm (30"x20") casing shoe at 110.9 m
	: (2) 340 mm ($13^3/_8$") casing shoe at 350 m
Hole Size	: (1) 660 mm (26") + 914 mm (36") hole opener from 78.5 m to 112 m
	: (2) 445 mm (17½") hole from 112 m to 355 m
	: (3) 311 mm (12¼") hole from 355 m to 766 m
Mud Type	: (1) Seawater / Pre-Hydrated Gel Sweeps
	: (2) Seawater / Pre-Hydrated Gel Sweeps
	: (3) KCl / PHPA
Proposed Total Depth	: 771 mRT MD (771 m TVD RT)
Actual Total Depth	: 766.0 mRT MD (765.98 m TVD RT)
Subsea Vertical Depth	: 744.5 m TVDSS
Date Rig on Contract	: 14-10-2005 @ 14:00 hours
Date Spudded	: 16-10-2005 @ 03:30 hours
Date TD Reached	: 20-10-2005 @ 06:00 hours
Date Rig Released	: 22-10-2005 @ 18:30 hours
Well Status	: Plugged & Abandoned

2.0 GENERAL INFORMATION

2.1 Executive Summary

The Maclean 1 well is located in Commonwealth waters within Permit Vic/P47 approximately 350km east of Port Melbourne and 10 km ESE of the Patricia/Baleen producing gas field. Vic/P47 is located offshore on the northern margins of the Gippsland Basin straddling the Northern Platform and Northern Terrace. The Diamond Offshore semi-submersible rig 'Ocean Patriot' was used to conduct the Maclean 1 well Operations.

Maclean 1 was drilled in three phases: a 914mm (36") phase, a 445mm (17½") phase and a 311mm (12¼"). The well was spudded on the 16th October 2005 at 03:30 hours using a 660mm (26") bit in conjunction with a 914mm (36") hole opener.

The 914mm (36") phase was drilled in 0.8 on bottom hours with an open hole total depth of 112 m. The 762 x 508mm (30" x 20") conductor was then run and cemented with the Casing Shoe set at 110.9 m. No problems were encountered during this phase.

The 445mm (17½") phase was drilled in 4.2 hrs with an open hole total depth of 355 m and the 340mm ($13^3/_8$") casing, run and cemented Casing Shoe set at 350 m. No problems were encountered during this phase.

A 311 mm (12¼") bit with a BHA and LWD tools were picked up and run in the hole. After tagging and drilling out the cement, 340mm ($13^3/_8$") casing shoe and 3 m of new hole, an F.I.T. was performed. The hole was then drilled in 17.0 Bit hrs from 355 m to T.D. at 766 m. No problems were encountered during this phase. Maclean 1 reached T.D. at 06:00 hours on 20th of October 2005.

The well was plugged and abandoned. Three plugs were pumped during this operation. The riser, BOPs, and anchors were then pulled and the rig released at 18:30 hours on 22nd of October 2005.

Geoservices provided a full mudlogging service from spud to TD during this well. This service included 'Reserval' gas monitoring.

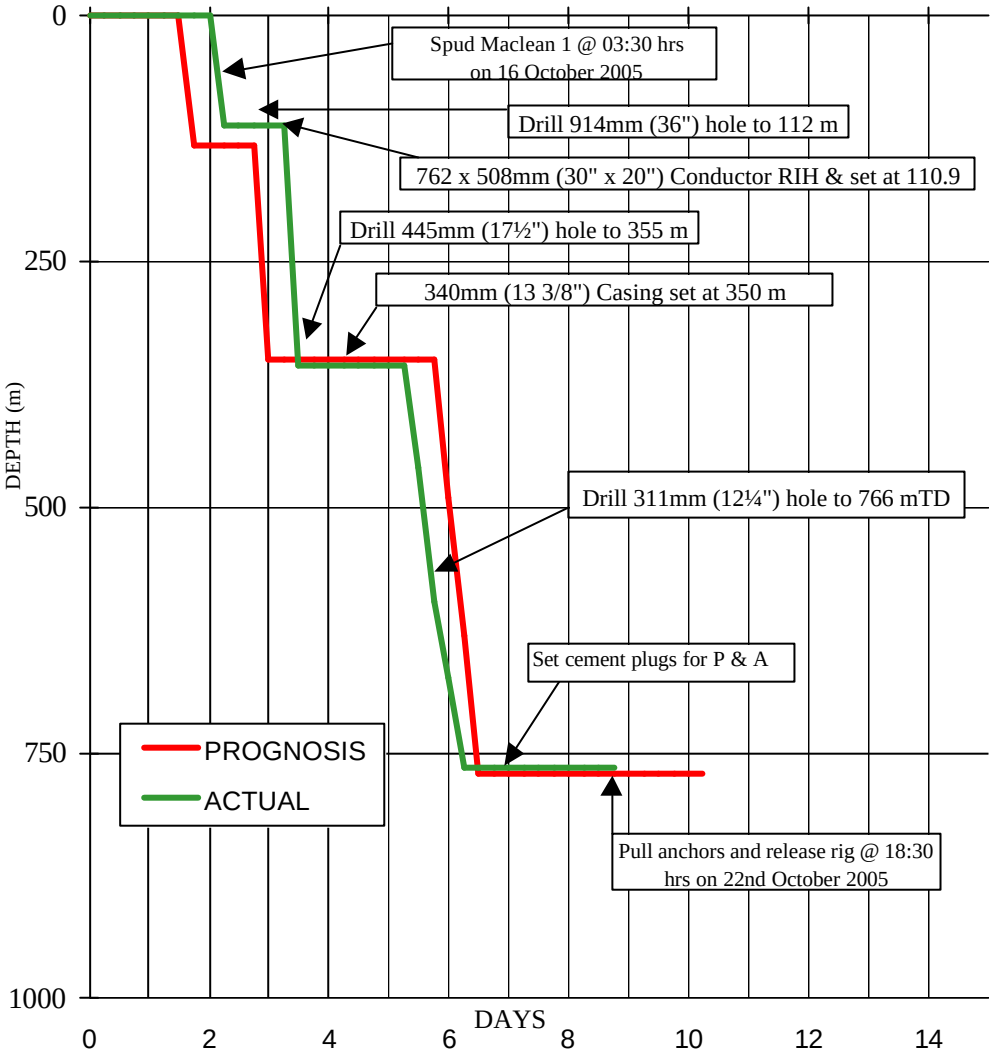
2.2 Geoservices Personnel

ALS Engineers	: Adderley, David : Dunn, Alan : Mc Gilveray, Paul
Mudloggers	: Elliott, Noel : Van Der Aa, Daniel
Sample Catchers	: Hannon, Laurence

2.3 Contractor Information

Drilling	: Diamond Offshore
Rig Name	: Ocean Patriot
Rig Type	: Semi-Submersible
Mudlogging	: Overseas Oilfield Services S.A.
Mud Engineering	: M.I. Swaco
MWD	: Halliburton, Sperry Sun
Wireline logging	: Schlumberger
Cementing	: Dowell Schlumberger
Well Head	: Dril-Quip
ROV	: Fugro
Casing	: Weatherford
Work Boats	: "Far Grip", "Pacific Wrangler"
Helicopters	: Bristows
Catering	: E.S.S.

2.4 Days versus Depth Progress Chart



Revision	Date	Issued by	Approved by	Remarks
1	Nov 2005	Geoservices Unit 170	Operations Manager	

2.5 Sample Collection Summary

Four sets of washed and dried samples and one set of samplex trays were collected during Maclean 1, from 355 m to TD at 766 m.

Sample intervals: 355 m to 580 m, 10 m
580 m to 766 m, 3 m

Sample distribution was as follows:

Recipient	Washed and Dried Samples	Samplex Trays (box)
Bass Strait Oil Company Ltd.	1 x 100g	1
Eagle Bay Resources NL	1 x 100g	
Victorian DPI	1 x 200g	
Geoscience Australia	1 x 200g	

Mud samples: 355m, 621m, 766m.

Filtrate samples: 358m, 604m, 637m, 766m.

3.0 GEOLOGICAL INFORMATION

3.1 Lithology and Show Summary

From spud to 355 m returns were to the sea floor.

INTERVAL:
355m – 520m:

Drilling Parameters:
WOB: 7.0-22.3 klbs MF: 796-1147 gpm
RPM: 77-133 SPP: 1054-2453 psi
TRQ: 3.2-5.1 klb*ft

Lithology	Lithology description	ROP m/hr			Depth	Total	C1	C2	C3	iC4	nC4	C5
		ave.	max.	Min.	M	Gas %	ppm	ppm	ppm	ppm	ppm	ppm
CALCILUTITE:	Argillaceous, off-white to medium grey, very soft to slightly firm in part, amorphous, 10-35% (variable) argillaceous matrix, trace-20% silt grading to *Calcisiltite* in part, trace fossil fragments (shell fragments, bryozoa, spicules & forams), trace intact forams (?Amphistegina), trace fine to medium dark green glauconite grains, trace fine pyrite.	30	8.5	87.4	355-520	0.08 Av	686	2	1	1	1	0
					520 m	0.2 Max	2148	5	2	9	2	2
CALCARENITE	Pale yellowish brown, firm to hard, partly recrystallised, coarse to very coarse calcareous fossil fragments (shell fragments, bryozoa, spicules & forams), trace fine dark green glauconite grains, trace pyrite, argillaceous in part.											
MARL	Medium dark grey, very soft, dispersive, amorphous, grading to argillaceous Calcilutite, trace very fine dark green disseminated glauconite, trace fossil fragments and forams.											
CALCAREOUS CLAYSTONE	Medium dark-dark grey, soft-amorphous, dispersive, grading to Marl, trace glauconite & pyrite.											

INTERVAL:
520 m – 584 m:

Drilling Parameters:
WOB:14.8-24.8 klbs MF: 957-1018 gpm
RPM: 111-139 SPP: 1482-1639 psi
TRQ: 3.8-6.1 klb*ft

Lithology	Lithology description	ROP m/hr			Depth	Total	C1	C2	C3	IC4	nC4	C5
		ave.	max.	Min.	m	Gas %	ppm	ppm	ppm	ppm	ppm	ppm
CLAYSTONE:	Calcareous, Medium grey to dark grey, minor dark greenish grey and brownish grey, soft, amorphous to blocky, 15-35% calcareous matrix, trace – 5% Calcisiltite, trace fine dark green disseminated glauconite and nodular glauconite, trace fine pyrite, trace coarse nodular pyrite, trace fossil fragments and forams.	35.5	117.6	16.6	520-584	0.37	3695	2	2	2	0	0
					568.5	0.84	7044	2	2	26	1	0
MARL:	Very light to light medium grey, very soft - soft, dispersive in part, amorphous, clay matrix (35-45%) grading to *Argillaceous Calcilutite* in part, trace fossil fragments and forams, interbedded with *calcilutite*, trace glauconite.											
CALCILUTITE:	Argillaceous, soft to slightly firm, massive, very light to medium grey and greenish grey, trace dark grey, argillaceous matrix (20-35%), grading to Marl, trace fossil fragments, trace fine dark green disseminated & nodular glauconite, trace fine pyrite.											
CALCARENITE	White to light grey, pale yellow brown to dark yellow brown, pale yellow orange, firm to hard, medium to coarse calcareous fossil fragments (shells, bryzoan, spicules, forams), 5-10% Calcisiltite, partly re-crystallized, trace to 5% fine to coarse dark green glauconite, trace pyrite.											

INTERVAL:
584 m - 630 m:

Drilling Parameters:
WOB: 5.2-20.6 klbs MF: 811-968 gpm
RPM: 125-130 SPP: 1284-1675 psi
TRQ: 3.2-6.1 klb*ft

Lithology	Lithology description	ROP m/hr			Depth	Total	C1	C2	C3	iC4	nC4	C5
		ave.	max.	min.	m	Gas %	ppm	ppm	ppm	ppm	ppm	ppm
SILTSTONE:	Medium to dark yellowish brown to green, quartz silt to very fine quartz, soft to firm, occasionally hard, non-calcareous, 10-20 % detrital clay matrix, argillaceous, locally arenaceous with 10-20% very fine quartz, trace-15% fine to coarse glauconite, trace-1% white mica, lithic arkose.	20	111.9	5.1	584-630	0.82	6419	1	1	4	2	2
					590.5	1.88	13598	0	0	12	4	4
SANDSTONE: Trace Greensand	Lithic arkose-argillaceous, medium yellow brown, dark brown grey, green, light grey to brown black in part, firm, friable to soft, loose, very hard in part, very fine to fine, sub-angular to sub-rounded, up to 35% lithic grains (chert, volcanics, feldspar), moderate to well sorted, 5-10% silt, 10-15% clay matrix (chlorite, kaolinite, minor illite/smectite), trace-10% detrital clay matrix, 5-10% micas, trace-5% pyrite (framboidal in part), trace-10% dark lithics (titanium oxide, trace zircon and tourmaline), trace-30% fine glauconite, pelletal and coarse nodular in part, poor inferred porosity, no fluorescence or cut.											
CLAYSTONE:	Dark yellowish orange to moderate yellow brown, light brown yellow, soft to slightly firm, amorphous to blocky, rare-abundant silt to very fine Sandstone grading to silty Claystone, trace fine to medium nodular dark green glauconite, trace nodular pyrite. Calcareous Claystone at top.											

INTERVAL:
630 m – 672 m:

Drilling Parameters:
WOB: 2.5-14.9 klbs MF: 834-973 gpm
RPM: 94-133 SPP: 1247-1773 psi
TRQ: 3.1-5.9 klb*ft

Lithology	Lithology description	ROP m/hr			Depth	Total	C1	C2	C3	iC4	nC4	C5
		ave.	max.	min.	m	Gas %	ppm	ppm	ppm	ppm	ppm	ppm
SANDSTONE:	Clear-frosted, translucent, white and light to medium dark grey, loose, coarse to very coarse and granular (dom cU), conglomeratic in part, quartzose, angular (broken fragments) to well rounded, poorly sorted, trace argillaceous matrix coating grains, trace nodular pyrite and pyritic cement, trace lithics, trace rounded carbonaceous fragments, very good inferred porosity, no fluorescence or cut.	15.5	130.3	5.4	630-672	0.28	2298	2	2	7	0	0
					635	1.06	9843	11	13	35	38	4
CLAYSTONE:	White to very light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.											
CONGLOMERATE	Clear-frosted, translucent, white and light to medium dark grey, loose, granular, quartzose, angular (broken fragments) to well rounded, poorly sorted, trace white argillaceous matrix coating grains, very good inferred porosity, no fluorescence or cut.											
COAL: (Trace)	Brownish black to black, soft to firm, brittle, fibrous, very fine to large fragments.											

INTERVAL:
672 m - 708 m :

Drilling Parameters:
WOB: 2.7-19 klbs MF: 940-967 gpm
RPM: 101-127 SPP: 1649-1729 psi
TRQ: 3.1-4.7 klb*ft

Lithology	Lithology description	ROP m/hr			Depth	Total	C1	C2	C3	iC4	nC4	C5
		ave.	max.	min.	M	Gas %	ppm	ppm	ppm	ppm	ppm	ppm
CLAYSTONE:	White to very light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.	19.2	160.1	5.9	672-708	0.13	1333	5	1	6	2	4
					687	0.18	1785	2	2	5	2	6
SANDSTONE:	Clear-frosted, translucent, white and light to medium dark grey, loose, coarse to very coarse and granular (dom cU), conglomeratic in part, quartzose, angular (broken fragments) to well rounded, poorly sorted, trace argillaceous matrix coating grains, trace nodular pyrite and pyritic cement, trace lithics, trace rounded carbonaceous fragments, very good inferred porosity, no fluorescence or cut.											
CONGLOMERATE	Clear-frosted, translucent, white and light to medium dark grey, loose, granular, quartzose, angular (broken fragments) to well rounded, poorly sorted, trace white argillaceous matrix coating grains, very good inferred porosity, no fluorescence or cut.											

INTERVAL:
708 m - 766 m (TD):

Drilling Parameters:
WOB: 5.5-22.1 klbs MF: 944-970 gpm
RPM: 112-127 SPP: 1651-1790 psi
TRQ: 3.2-5.2 klb*ft

Lithology	Lithology description	ROP m/hr			Depth	Total	C1	C2	C3	iC4	nC4	C5
		ave.	max.	min.	M	Gas %	ppm	ppm	ppm	ppm	ppm	ppm
CLAYSTONE:	Very light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.	20.7	97.1	7.3	708-766	0.16	1411	1	1	6	1	6
					738	0.24	1815	3	1	8	1	14
SANDSTONE:	Clear-frosted, translucent, white and light to medium dark grey, loose to rarely cemented fragments, fine to medium (fU-mL), poorly sorted, trace argillaceous matrix cementing grains, trace nodular pyrite and pyritic cement, trace lithics, no fluorescence or cut.											
COAL: (Trace)	Brownish black to black, soft to firm, brittle, fibrous, very fine to small fragments.											

3.2 Gas Ratio Interpretation – Introduction

Gas composition and total gas in mud were measured using the Geoservices Reserval (A combined total gas detector and chromatograph coupled with a GZG degasser). As a backup gas detection system a Geoservices FID Chromatograph Panel (FCP) and FID Gas Panel (FGP) were in operation, in tandem with a GZ11 degasser motor. Both gas systems use the FID technique of measuring ions released when hydrocarbons are burnt in a hydrogen flame.

Gas is extracted from the mud prior to it reaching the shale shakers by the degassers, which are essentially an agitator inside a chamber through which the mud continually passes. The GZG degasser is specially designed to degas a constant volume of mud regardless of pump rates and has the advantage of being placed within the flowline, limiting any early emissions of gas from the mud as it is circulated through the rig. The GZ11 degasser is located on the header box in the shaker room where it is reliant on stable mud circulation and shaker operation. The gas is then drawn back to the unit through tubing to the gas analysis equipment. Independent sensors in the unit also measure H2S and CO2.

The composition of the gas in mud from the formation is significant in determining the geochemical origin and value of a show. There are several methods that can be used to determine whether the hydrocarbon gas in mud comes from a potential gas or oil zone. Amongst these methods are the Triangle Diagram (also known as the gas composition diagram), Pixler Diagram (also known as the gas ratios method) and the gas Wetness/Balance/Character plots.

3.3 Explanation of Gas Composition Diagrams

The Triangle or Gas Composition Diagram is used to graphically represent the hydrocarbon distribution in the gas and to determine whether it corresponds to a gas or oil reservoir. The triangular diagram is obtained by tracing lines on three scales at 120° to each other, corresponding respectively to the ratios of ethane, propane and normal butane to the total gas. The scales are arranged in such a way that if the apex of the triangle is upward, the diagram represents the analysis of gas from a gas zone, while if the apex points downwards, the diagram represents the analysis of gas from an oil zone. A large triangle diagram represents dry gas or low GOR oil, while small triangles represent wet gases or high GOR oils. The centre of the triangle should fall inside the area delineated by the dotted line, which encircles compositions that are regarded as 'normal'. If the triangle area is outside this area the gas indicates that the reservoir is not exploitable and that the heavier hydrocarbon composition is 'abnormal' i.e. hydrocarbons that are chemically altered or gases with special compositions which are not associated with oil.

The Gas Ratio Analysis Diagram is a plot of the ratio of C1 to the other gas elements. The magnitude of the methane to ethane ratio determines if the reservoir contains gas or oil or if it is non-productive. The following conclusions are possible:

Ratio C1/C2:	< 2	non-productive zone
	2 - 15	oil present
	15 - 65	gas present
	> 65	non-productive zone

The slope of the line of the ratio plot of C1/C2, C1/C3, C1/C4 and C1/C5 indicates whether the reservoir will produce hydrocarbons or hydrocarbons and water. Positive line slopes

indicate production; negative line slopes indicate water-bearing formations. When using the Gas Ratio Diagram, the following points should be borne in mind:

1. Productive dry gas zones may show only C1, but abnormally high shows of C1 are usually indicative of saltwater zones.
2. If the ratio C1/C2 is low in the oil section and the ratio C1/C4 is high in the gas section, the zone is probably non-productive.
3. If any ratio (C1/C5 excepted in an oil based mud) is lower than the preceding ratio then the zone is probably non-productive.
4. The ratios may not be definitive for zones of low permeability.
5. Steep gas ratio plots may be indicative of tight zones.

3.4 Explanation of Wetness/Balance/Character Curves

Another method for evaluating gas zones plots against depth three ratios: hydrocarbon Wetness (W_h), hydrocarbon Balance (B_h) and hydrocarbon Character (C_h), where:

$$W_h = \frac{(C2 + C3 + C4 + C5)}{(C1+C2+C3+C4+C5)} \times 100\ (\%)$$

$$B_h = \frac{(C1 + C2)}{(C3 + C4 + C5)}$$

$$C_h = \frac{(C4 + C5)}{C3}$$

Wetness (W_h) is the primary zone indicator and provides a measure of the relative proportion of heavier gases in the overall gas show as follows:

$W_h < 0.5$	Light non-associated gas with low productivity potential or only geo-pressured methane.
$0.5 < W_h < 17.5$	Potentially productive gas with gas density increasing with W_h.
$17.5 < W_h < 40.0$	Potentially productive oil with gravity decreasing as W_h increases.
$W_h > 40.0$	Heavy or residual oil with low productivity potential.

As reservoir hydrocarbons become denser in the transition from gas to oil, Balance (B_h) and Wetness (W_h) values move closer together and eventually intersect. The zone guidelines for B_h combine with those for W_h to improve reliability of show evaluation as follows:

$W_h < 0.5$ and $B_h > 100$	Very light, dry gas that is almost certainly non-productive.
$0.5 < W_h < 17.5$ and $W_h < B_h < 100$	Productive gas with gas increasing in wetness and density as the two curves converge.
$0.5 < W_h < 17.5$ and $B_h < W_h$	Productive gas condensate or a high gravity gas/oil ratio.
$17.5 < W_h < 40$ and $B_h < W_h$	Productive oil with oil gravity decreasing - density increasing as the curves diverge.
$17.5 < W_h < 40$ and $B_h > W_h$	Non-productive residual oil.

Character (C_h) values serve to resolve ambiguities between oil or gas indications by defining the following:

$0.5 < W_h < 17.5$ and $B_h < W_h$ and $C_h < 0.5$ — Productive wet gas or condensate.

$0.5 < W_h < 17.5$ and $B_h < W_h$ and $C_h > 0.5$ — Productive high gravity and/or high GOR oil.

It is important to note that in the conclusion to each of the interpretive tools, the terms 'productive' and 'non-productive' are used in a geochemical sense. Ultimate production of a zone is dependent upon reservoir thickness and extent as well as other physical and economic factors that are not taken into account when analysing gas compositions. The methods discussed here are intended to assist the interpretive skills of the geologist or log analyst. Please refer to the Gas Ratio Log enclosure.

3.5 Gas Composition Discussion

Gas monitoring commenced using the Geoservices Reserval from the beginning of the 311mm (12¼") phase at 355 m after top hole casing was run, through to the well's total depth of 766 m.

No significant gas was encountered while drilling through the calcareous sediments in the upper part of the 311mm (12¼") hole section. Drilling of the interval above 622 m occurred with a consistent mud weight of 1.06 SG (8.8 ppg), and encountered background gas levels of 0.01-0.40%, with a maximum peak of 0.91% at 599 m. This gas was uniformly dry, consisting of 99-100% C1 (methane), with traces of C2 (ethane), C3 (propane), C4 (butane), and C5 (pentane) gas.

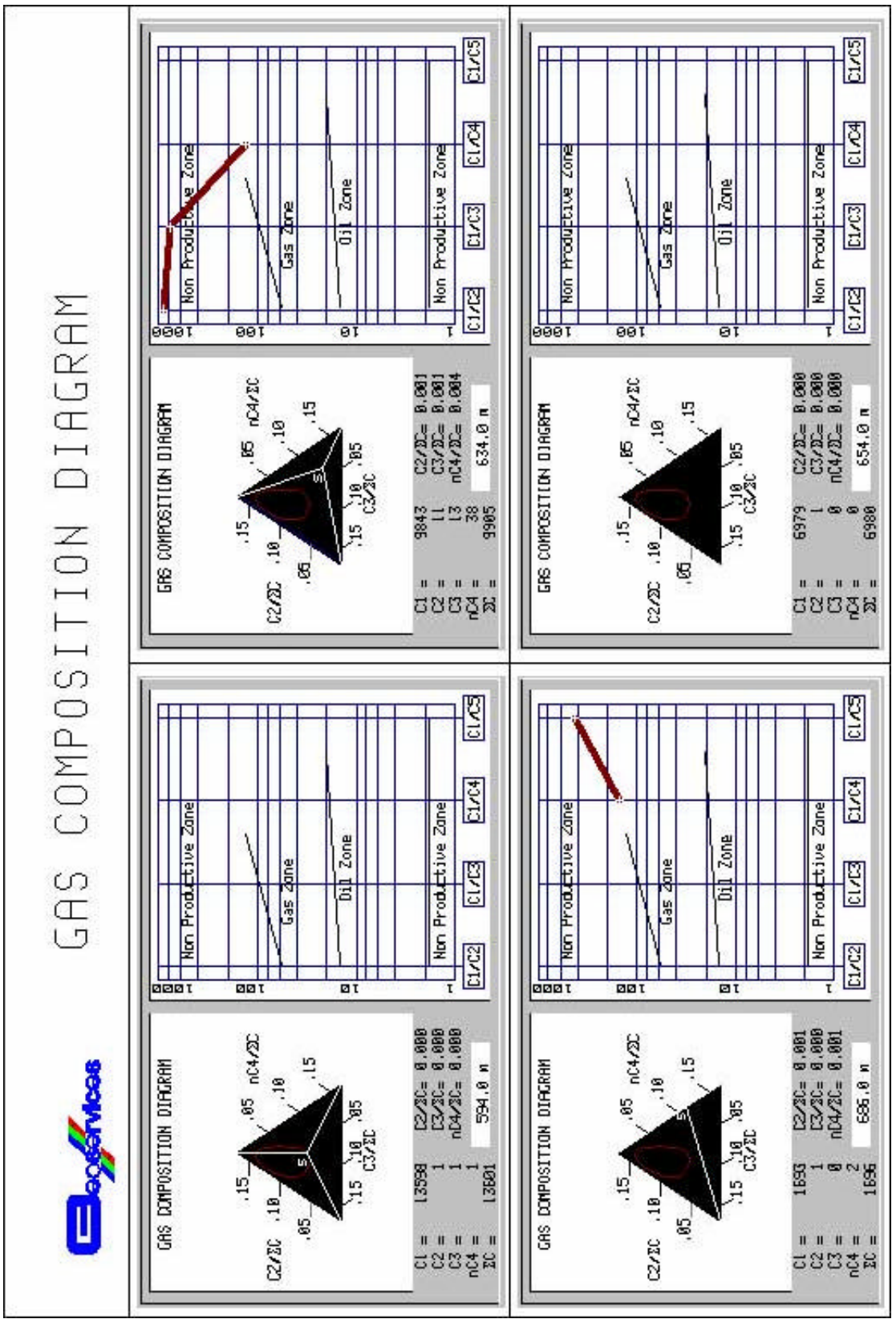
As drilling proceeded in the lower part of the well, the background gas levels became more elevated, ranging from 0.67% to 0.25% and 0.18% respectively. Several gas peaks between 1% and 2% concentration were encountered, with the maximum gas level recorded being 1.88% at 590.5 m depth. These were mostly associated with thin layers of Coal or Sandstone lithology, and generally higher ROP. Throughout this part of the well the gas was also very dry, with the standard C1 to C5 ratios consisting of 99-100% C1 and traces of C2, C3, C4 and C5. The mud weight was only marginally varied during this interval, ranging from 1.04 SG (8.6 ppg) to 1.06 SG (8.8 ppg) when drilling was terminated at 766 mMDRT. No data was recorded from 643 m to 651 m due to cuttings build up in the possum belly, blocking the degasser.

It is interesting to note that according to the hydrocarbon Wetness, Balance and Character ratio indicators, each of the gas peaks in the reservoir zone corresponds to a very light dry gas (essentially geo-pressured methane) that is almost certainly non-productive (i.e. where $W_h < 0.5$, and $B_h > 100$). However, this Balance ratio of the peaks is affected by the gas anomaly described below.

One gas anomaly that occurred throughout the drilling of Maclean-1 well, was the persistent and unexplained presence of minor iC4 traces (as on previous wells), recording slightly larger than the C2 and C3 gas components. The proportion of iC4 recorded was largely unchanged, never more than 0.4% of the total gas percentage, and varied only as the total gas recorded increased or decreased. This suggests that it was an artificial agent, which "masked" the presence of iC4 in the gas analysis system, and is most likely related to some mud additive (possibly MAGNAFLOC) used in this particular well. Samples of this additive have been forwarded to Bass Strait Oil Company Ltd. for further analysis.

NB: Contamination of Reserval gas results can occur with certain chemicals added to the mud which give off false C4 or C5 readings eg: Glycol, Magna-floc. Where this has occurred, notations have been made on the mudlog and in this report.

3.6 Gas Ratio Diagrams



Revision	Date	Issued by	Approved by	Remarks
1	Nov 2005	Geoservices Unit 170	Operations Manager	

4.0 PRESSURE ANALYSIS

4.1 Introduction

There are several techniques available which when used in the appropriate overpressured environment, can often predict an approaching overpressured zone while drilling. Each technique may give slightly different results according to geological and drilling conditions. Geoservices currently uses the following parameters to indicate overpressured regions while drilling:

D Exponent: This is a normalized rate of penetration that takes into account mud weight, bit wear and hydraulics. It can be reliably used in shales and clean claystones; and as an indicator in siltstones, silty shales and calcareous claystones. A normal trend line is established through normally pressured shale points, representing a normal compaction trend, and any leftward deviation of subsequent shale points from this trend, representing relative under-compaction, indicates overpressure (plotted relative to depth) or increased porosity due to changes in the lithology. Use of PDC bits can give a different trend.

Temperature: By plotting mud flowline temperature against depth a temperature gradient can be established. Theory states that a zone of low heat flow or "thermal shadow" occurs prior to the overpressured zone, which in turn is followed, by a complementary zone of abnormally high heat flow in the overpressured zone (due to its higher water content). However, the data has to be interpreted cautiously as additions of water to the active system/shakers can lower the mud temperature and mud chemicals added to the active system can cause exothermic/endothermic reactions. Bit and wiper trips cause decreases in temperature on surface.

Cuttings: Small, splintery cuttings can be used as an indicator of overpressured regions. Long propeller shaped cuttings may be an indicator of overpressure or may be the result of hydration of reactive or swelling clays.

Overpull/Torque/Fill: Over-pull when making a connection or tripping can be an indicator that the hole is collapsing into the well bore, either due to clay hydration or a formation pressure that is greater than the mud weight. Similarly, excessive fill on a trip or after a connection can also indicate that the well bore is collapsing in. High torque can also be an indicator of well bore collapse, although it can also be due to formation type, bearing failure or simply the annulus becoming clogged up by cuttings due to insufficient hole cleaning in large diameter holes.

Gas *Connection gas*: During circulation the down-hole pressure exerted by the mud, weight increases due to friction losses in the annulus. This is calculated as an ECD - or equivalent circulating density. Thus, when the pumps are stopped for a connection the down -hole pressure exerted by the mud decreases by an amount equivalent to the difference between the ECD and mud weight. If the mud weight is close to or actually underbalanced, then gas may be fed-in to the well bore during the few minutes the pumps are turned off and register as a gas peak one lag time after the connection. The magnitude of this peak is determined by such factors as permeability, gas content of the formation, amount of swabbing as well as the relative pore pressure / mud weight.

Background gas: Background gas is not as good an indicator of formation pressure as connection gas since several factors can influence it unrelated to abnormal pressure. Increases in porosity and permeability, gas saturation, coal content of formation, etc, can cause the background to increase in addition to an underbalanced situation. Another point is that the formation pressure would have to exceed the ECD (not just the mud weight as in connection gas), in order for the formation gas to feed-in to the well bore.

Trip gas: Analogous in some ways to connection gas, trip gas is the gas registered at surface after circulating bottoms up after a round trip. However, trip gas magnitude is influenced by various other factors such as amount of swabbing and time since last circulation. The presence of trip gas is not necessarily indicative of an underbalanced situation, but the value above background can be used comparatively with other trip peaks.

4.2 Pressure Summary

Formation pressures were monitored throughout this well by recording a range of indicators, varying from direct observations of background gas and cuttings, to drilling characteristics such as torque and drag when pulling off bottom. Incorrect hole fill when tripping and mud properties such as flowline temperature are also taken into consideration. The Geoservices D'Exponent package is also used as a tool in the determination of abnormal formation pressures.

D'exponent:
Coefficients used for this well, results plotted in Geoservices Pressure Log.

From 79 m to 766 m

a coefficient = 0.0002084
b coefficient = -0.1244643
b offset = -0.0200000

The D'exponent plot increased in a generally steady linear direction. The plot followed the trend well giving no indication of abnormally pressured zones. This well was very short and returns were only to surface from 355 m. The first argillaceous section was from 355 m down to 583 m in which the trend was set, the sandstones that were encountered below 583 m showed very little deviation from the normal trend line.

The plot's results are affected to some degree by the control drilling which was performed from 595 m down to TD at 766 m. This section was also affected by the common sandstones and conglomerates drilled.

Gas: This well was drilled with a slightly overbalanced mud system (1.04 to 1.06 ppg) and as a result no connection gas was observed. The few small gas peaks observed were of levels less than 2% concentration. There was also no trip gas observed in this well.

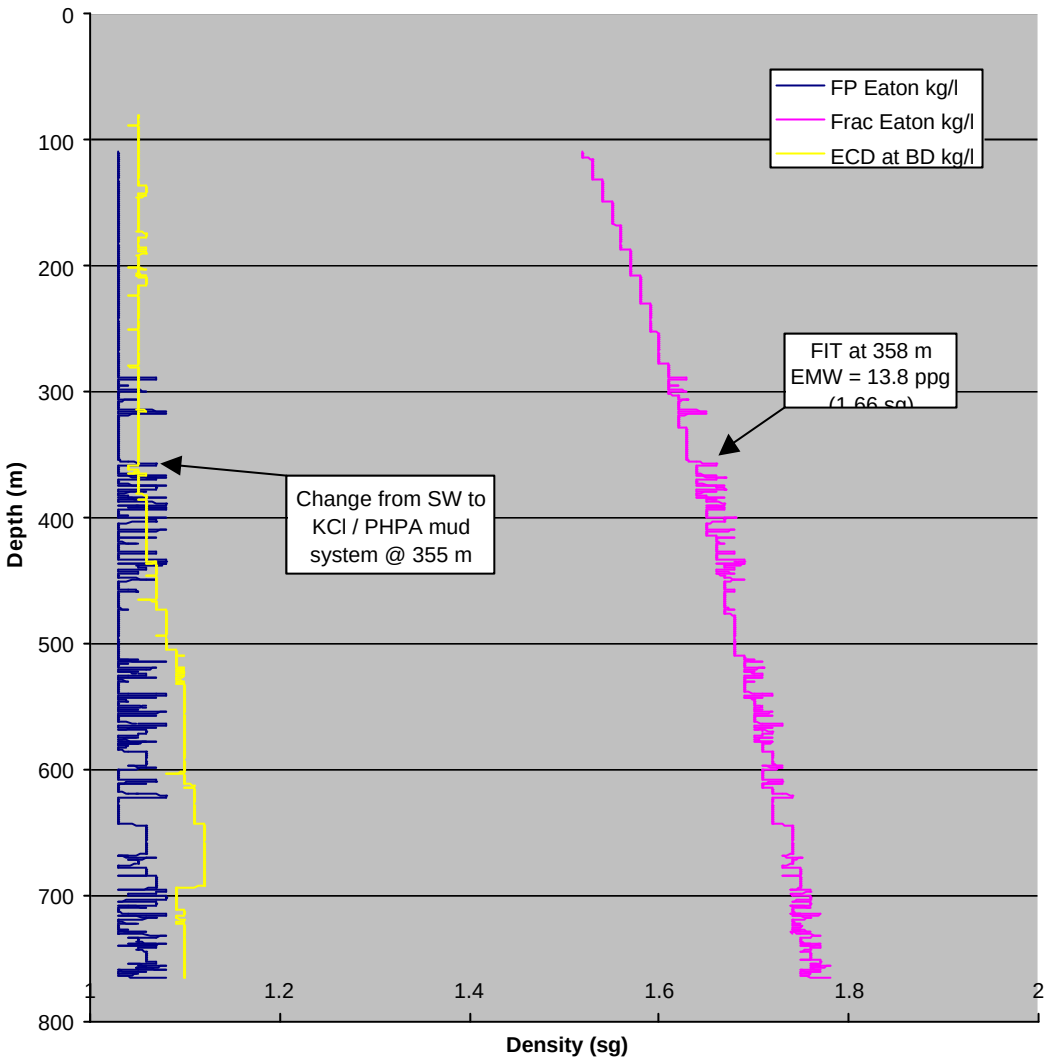
Torque & Drag: No abnormal torque or drag was observed during the drilling or tripping operations, which took place on the Maclean-1 well. Though there was a sticky spot while pulling out from 620 m to 550 m.

Flowline Temperature: The flowline temperature increased generally in a linear trend over the length of the well. It went from a low of 26 °C at the beginning of the 311mm (12¼") section to 46.9 °C when drilling was terminated at 766 m. A minor drop in the temperature may be associated with a change in formation, or possible presence of formation water.

Cuttings: There were no unusually sharp splintery cavings or large cuttings with concave cross section observed at the shakers that may have indicated an abnormally pressured zone in this well.

The majority of indicators pointed to a normally pressured environment from surface to TD while drilling Maclean 1.

4.3 Formation Pressure Plot



5.0 DRILLING INFORMATION

5.1 Mud Record

From spud to the end of the 445mm (17½") hole phase at 355 m the well was drilled riser less with returns to the seafloor. This section was drilled with seawater and Hi-Vis Gel sweeps.

The 311mm (12¼") hole was drilled from 355 m to TD at 766 m with returns to surface, this section was drilled using a KCl / PHPA mud system.

Properties of this mud are also listed below:

Depth m	MW sg	FV sec/qt	PV cps	YP lb/100'	Gels Lb/100'	WL cm/ 30"	Solids %	Sand %	Chlorides mg/L	Cake /32"
550	1.05	53	12	23	7/11/14	7.5	4	0.5	30K	<1
655	1.06	60	15	24	7/10/16	5	3	0.5	39K	1

5.2 Bit Record

Bit #	Size (mm)	Make	Type	Jets	TFA In^2	In (m)	Out (m)	Run (m)	Hrs	WOB klbs	RPM	TORQ kft*lbs	SPP psi	Flow gpm	Grading
1	660 x 914 HO	Reed	Y11C	2x24, 1x16	1.522	78.5	112	33.5	0.8	0-8	40-90	2.9-6.5	300-1040	410-1930	0-0-NO-A-O-I-NO-TD
2	445	Reed	T11	3x22, 1x16	1.31	112	355	243	4.2	0-16	80-110	0.4-6.5	1760-2600	1070-1170	0-0-NO-A-O-I-NO-TD
3	311	Reed	EHP41HKPR	2x24, 1x28	1.48	355	766	411	17	5-20	90-130	3.2-5.2	1175 - 1790	900-970	2-3-WT-S-E-IN-NO-TD

5.3 Hydraulic Listing

Depth (m)	Mud Weight (sg)	ECD (sg)	Flow Rate (gpm)	Total Pressure Loss (psi)	Pressure Loss Across Bit (psi)	Mud Velocity Through bit (m/sec)	Bit Hydraulic Power (hp)	Mud Impact at Bit (lbf)	Total Hydraulic Power (hp)	Ratio (Bit Pwr/Total Pwr) (%)
550	1.05	1.09	900	1645	331	63	186.6	889	928	20.1
655	1.06	1.10	955	1797	334	63	188.4	898	1014	18.6

5.4 Drilling Phase Summary

5.4.1 914mm (36") Hole Section

Date	: 16th October 2005
Measured depth	: 78.5 m – 112 m
TVDSS MSL	: 78.5 m – 112 m
Number of bits used	: 1
Mud type	: Seawater, with gel sweeps

Maclean 1 was spudded at 03:30 hours, on the 16th October 2005. A 914mm (36") BHA was made up, consisting of a 660mm (26") Reed Y11C bit, and a 914mm (36") hole opener. Sea floor sediments were tagged at 78.5 m and 914mm hole was drilled without incident to a depth of 112 m. Gel sweeps were then pumped around the well prior to displacing to a gel mud before pulling out of hole and rigging up to run the 762 x 508mm (30" x 20") conductor. This bit drilled 33.5m of new formation in 0.8 hours, at an average ROP of 41.9 m/hr. The bit was graded 1-1-NO-A-O-I-NO-TD.

The 762 x 508mm (30" x 20") conductor was run and cemented on bottom at a depth of 110.9 m as per programme.

5.4.2 445mm (17½") Hole Section

Dates	: 17th October 2005
Measured depth	: 112 m – 355 m
TVDSS MSL	: 112 m – 355 m
Number of bits used	: 1
Mud type	: Seawater with gel sweeps

The 445mm (17½") hole phase was drilled using Reed Hycalog T11 bit. This bit was run in hole and drilled out the cement and conductor shoe, new hole was drilled ahead from 112 m down to 355 m, which was T.D. for this phase. This section was drilled with seawater and gel sweeps, at T.D. the hole was displaced to pre-hydrated gel mud. A wiper trip was then performed up to the casing shoe. This bit drilled a total of 243 m in 4.2 on bottom hours at an average ROP of 57.8 m/hr. This bit was graded 0-0-NO-A-O-I-NO-TD.

There were no hole problems encountered during the drilling of this section. 340mm ($13^{3}/_{8}$") casing was run at this point and cemented in at 350 m. Following this the BOP stack was moved into position in the moon pool area and then was run to the sea floor on the marine riser and latched to the well head.

After the BOP stack was pressure tested successfully, the 445mm (17½") BHA was then laid down.

5.4.3 311mm (12¼") Hole Section

Dates	: 19th – 20th October 2005
Measured depth	: 355 m - 766 m
TVDSS MSL	: 355 m – 765.98 m
Number of bits used	: 1
Mud type	: KCl-PHPA

The 311mm (12¼") phase was drilled to a depth of 766 m, T.D. for the well.

A Reed EHP41HKPR bit was run in hole with MWD tools. The cement was tagged at 314 m, the cement and casing shoe were drilled out and the hole displaced to KCl/PHPA drilling mud. An F.I.T. was performed resulting in an EMW of 1.66 SG (13.8 ppg). No problems were encountered whist drilling this section. This bit drilled a total of 411 m in 17.0 on bottom hours at an average ROP of 24.1 m/hr, though the reservoir was control drilled. This bit was graded 2-3-WT-S-E-IN-NO-TD. Mud weight ranged from 1.03 to 1.07 sg. TD was reached at 06:00 hours on 20th October 2005.

The hole was circulated clean prior to pulling out. While pulling out one tight spot was noted from 620 m back to 550 m. A string of 127mm drill pipe was then made up and run in, and the well was plugged and abandoned. Three plugs were pumped during this operation. Plug 1a: 766 to 666 m, Plug 1b from 666 to 566m, Plug 2 across the 13 3/8" shoe from 400 to 300m, and a last plug after setting the bridge plug at 150 m, cement was set from 150 to 100 m The BOP stack and anchors were then pulled and the rig was released at 18:30 hours on 22nd October 2005.

APPENDIX 4

LWD END of WELL REPORT

(By Halliburton)

HALLIBURTON

Sperry Drilling Services

LWD End of Well Report

for

Bass Strait Oil Company Ltd

Maclean -1

Rig: Ocean Patriot

Field: Exploration

Country: Australia

Job No: AU-FE-0003872895

Date: 16th October 2005

HALLIBURTON

Table of Contents

1. General Information

2. Operational Overview

3. Summary of MWD Runs

4. Bitrun Summary

5. Directional Survey Data

General Information

Company:	Bass Strait Oil Company Ltd	
Rig:	Ocean Patriot	
Well:	Maclean-1	
Field:	Exploration	
Country:	Australia	
API Number:		
Sperry-Sun Job Number:	AU-FE-0003872895	
Job start date:	16-Oct-05	
Job end date:	20-Oct-05	
North reference:	Grid	
Declination:	13.215	deg
Dip angle:	-68.537	deg
Total magnetic field:	59820	nT
Date of magnetic data:	14-Oct-05	
Wellhead coordinates N:	38 deg. 2 min 46.320 sec South	
Wellhead coordinates E:	148 deg. 32 min 52.920 sec East	
Vertical section direction:	Closure	
MWD Engineers:	A. Oraekwuotu	J. Nicolson
	B. Glassborow	
Company Representatives:	P. Dane	R. King
Company Geologist:	G. Geary	R. Blackmore
Lease Name:	Vic/P47	
Unit Number:	182	
State:	Victoria	
County:		

Operational Overview

Sperry Drilling Services (Halliburton) were contracted by Bass Strait Oil Company Ltd to provide Logging While Drilling (LWD) services for the drilling of exploration well Maclean-1 (offshore Gippsland Basin) from the Ocean Patriot.

445mm Hole Section:
This hole section was drilled from 112.0 m to 355.0 mMDRT in one bit run using Sperry's Formation Evaluation tool suite (FE2) comprising Dual Gamma Ray (DGR) and Electromagnetic Wave Resistivity (EWR-P4) for logging purposes and a Position Monitor (PM) for directional control.

311mm Hole Section:
This hole section was drilled from 355.0 m to 766.0 mMDRT in one bit run using Sperry's Formation Evaluation tool suite (FE2) comprising Dual Gamma Ray (DGR) and Electromagnetic Wave Resistivity (EWR-P4) for logging purposes and a Position Monitor (PM) for directional control. This run drilled to Maclean-1 total depth at 766.0 mMDRT.

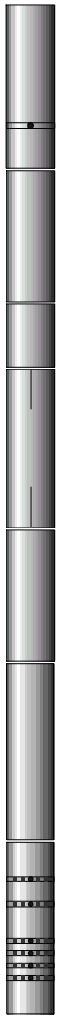
Summary of MWD runs

Run No.	Bit No.	Hole Size (mm)	MWD Service	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	DIR-FE	112.00	355.00	243.00	17-Oct-05 00:46	17-Oct-05 14:29	13.71	13.71	8.15	20.00	No	No	
0200	3	311.00	DIR-FE	355.00	766.00	411.00	18-Oct-05 23:36	20-Oct-05 13:18	37.69	37.69	25.39	45.00	No	No	
TOTALS	====>					654.00			51.40	51.40	33.54		0	0	

Bitrun Summary

Run Time Data		Drilling Data			Mud Data				
MWD Run :	0100	Start Depth :	112.00	m	Mud Type :	Seawater/PHG			
Rig Bit No:	2	End Depth :	355.00	m	Weight / Visc :	1.06	sg /	N/A	spqt
Hole Size :	445.00 mm	Footage :	243.00	m	Chlorides :	N/A	ppm		
Run Start :	17-Oct-05 00:46	Avg. Flow Rate :	1170	gpm	PV / YP :	N/A	cp /	N/A	lhf2
Run End :	17-Oct-05 14:29	Avg. RPM :	110	rpm	Solids/Sand :	N/A	%	/ N/A	%
BRT Hrs :	13.71	Avg. WOB :	5.00	klb	%Oil / O:W :	N/A	% /	N/A	
Circ. Hrs :	8.15	Avg. ROP :	57.86	m/hr	pH/Fluid Loss :	N/A	pH /	N/A	mptm
Oper. Hrs :	13.71	Avg. SPP :	1965	psig	Max. Temp. :	20.00	degC		

MWD Schematics



7. Positive Pulse
SN: 8047

6. TM
SN: 074608

5. Hang-off Sub
SN: 10536016

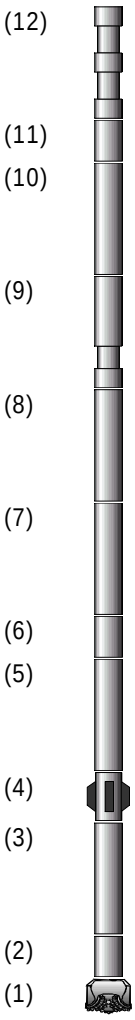
4. PM
SN: 022873
40.78 m From Bit

3. HCM
SN: 074608

2. DGR
SN: 184694
37.40 m From Bit

1. EWR-P4
SN: 123048
34.37 m From Bit

BHA Schematics



	Component	Length (m)	O.D. (mm)	I.D. (mm)
12.	HWDP	110.70	127.000	76.000
11.	Cross Over Sub	1.10	203.000	76.000
10.	Drill Collar	17.47	203.000	76.000
09.	Drilling Jars	9.05	203.000	76.000
08.	Drill Collar	17.63	203.000	76.000
07.	MWD	12.79	203.200	75.000
06.	Cross Over Sub	1.09	241.300	75.000
05.	Drill Collar	9.02	241.300	76.200
04.	Integral Blade Stabilizer	2.16	241.001	76.000
03.	Drill Collar	18.18	241.300	76.200
02.	Bit Sub	1.16	241.300	76.000
01.	Tricone Reed T11	0.47	445.000	76.000

Comments

Drilled cement, shoe and shoe track. Drilled 17 1/2" (445mm) hole from 112.0 to 355.0 mMDRT. All recorded data recovered at surface.

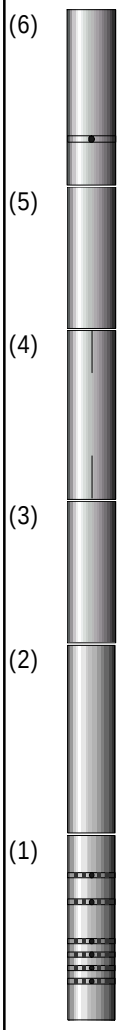
MWD Performance

Tool OD / Type :	203.20	mm/	P4M	
MWD Real-time% :	98.00	%		
MWD Recorded% :	100.00	%		
Min. Inc. :	0.70	deg/	310.49	m
Max. Inc. :	1.28	deg/	129.21	m
Final Az. :	293.91	deg		
Max Op. Press. :	534	psig		

Bit Run Summary

Run Time Data		Drilling Data			Mud Data				
MWD Run :	0200	Start Depth :	355.00	m	Mud Type :	KCl/PHPA			
Rig Bit No:	3	End Depth :	766.00	m	Weight / Visc :	1.06	sg /	60.00	spqt
Hole Size :	311.00 mm	Footage :	411.00	m	Chlorides :	39000	ppm		
Run Start :	18-Oct-05 23:36	Avg. Flow Rate :	960	gpm	PV / YP :	15.00	cp /	24.00	lhf2
Run End :	20-Oct-05 13:18	Avg. RPM :	125	rpm	Solids/Sand :	3.0	% /	0.50	%
BRT Hrs :	37.69	Avg. WOB :	15.00	klb	%Oil / O:W :		% /	0:97	
Circ. Hrs :	25.39	Avg. ROP :	20.74	m/hr	pH/Fluid Loss :	10.00	pH /	5.00	mptm
Oper. Hrs :	37.69	Avg. SPP :	1520	psig	Max. Temp. :	45.00	degC		

MWD Schematics



6. Positive Pulse
SN: 8047

5. TM
SN: 074608

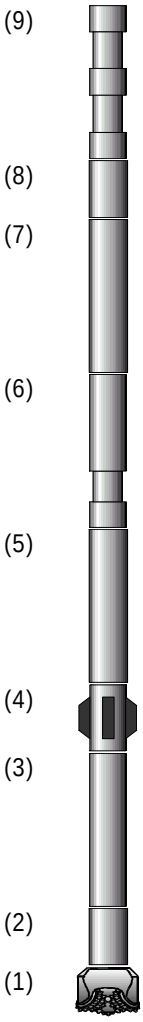
4. PM
SN: 022873
9.80 m From Bit

3. HCM
SN: 074608

2. DGR
SN: 184694
6.42 m From Bit

1. EWR-P4
SN: 123048
3.39 m From Bit

BHA Schematics



	Component	Length (m)	O.D. (mm)	I.D. (mm)
09.	HWDP	138.09	162.000	78.000
08.	Cross Over Sub	1.10	203.000	71.000
07.	Drill Collar	17.74	203.200	76.200
06.	Drilling Jars	9.05	203.000	70.000
05.	Drill Collar	70.98	203.200	76.200
04.	Integral Blade Stabilizer	2.15	203.000	74.000
03.	MWD	12.94	203.000	74.000
02.	Cross Over Sub	1.02	244.000	75.000
01.	Tricone Reed EHP41HKPR	0.35	311.000	50.800

Comments

Drilled float, cement and 13 3/8" (340mm) shoe. Drilled 12 1/4" (311mm) hole from 355.0 to 358.0 mMDRT. Performed FIT. Drilled ahead 12 1/4" (311mm) hole from 358.0 to 766.0 mMDRT. All recorded data recovered at surface.

MWD Performance

Tool OD / Type :	203.20	mm/	P4M	
Real-time % :	98.00	%		
MWD Recorded % :	100.00	%		
Min. Inc. :	0.06	deg/	640.29	m
Max. Inc. :	0.72	deg/	755.28	m
Final Az. :	88.50	deg		
Max Op. Press. :	1160	psig		

Directional Survey Data

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
129.21	1.28	306.65	129.20	0.86N	1.16W	0.86	TIE-IN
156.69	1.22	294.94	156.67	1.17N	1.67W	1.17	0.29
185.04	1.06	302.99	185.02	1.44N	2.16W	1.44	0.24
213.59	1.11	298.82	213.56	1.71N	2.63W	1.71	0.10
242.12	0.77	292.08	242.09	1.92N	3.05W	1.92	0.38
299.14	0.74	296.01	299.10	2.23N	3.73W	2.23	0.03
310.49	0.70	293.91	310.45	2.29N	3.86W	2.29	0.12
353.42	0.56	292.19	353.38	2.47N	4.29W	2.47	0.10
382.03	0.36	299.13	381.99	2.57N	4.50W	2.57	0.21
410.88	0.47	307.10	410.84	2.68N	4.68W	2.68	0.13
468.63	0.51	324.26	468.59	3.03N	5.01W	3.03	0.08
497.69	0.48	307.59	497.64	3.21N	5.19W	3.21	0.15
526.41	0.52	316.12	526.36	3.38N	5.37W	3.38	0.09
555.05	0.28	329.55	555.00	3.54N	5.50W	3.54	0.27
583.55	0.27	340.51	583.50	3.66N	5.56W	3.66	0.06
611.79	0.20	330.07	611.74	3.76N	5.60W	3.76	0.09
640.29	0.06	295.87	640.24	3.81N	5.64W	3.81	0.15
669.26	0.22	352.26	669.21	3.88N	5.66W	3.88	0.20
698.11	0.31	59.85	698.06	3.97N	5.60W	3.97	0.31
726.82	0.44	78.01	726.77	4.03N	5.43W	4.03	0.18
755.28	0.72	88.50	755.23	4.06N	5.15W	4.06	0.31
766.00	0.72	88.50	765.95	4.06N	5.01W	4.06	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 0.00 DEGREES (GRID)
A TOTAL CORRECTION OF 14.17 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED

HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 766.00 METRES
IS 6.45 METRES ALONG 309.02 DEGREES (GRID)

Final survey projected to TD
RT-MSL = 21.5 m

APPENDIX 5

PALYNOLOGY REPORT & BASIC DISTRIBUTION CHART

(By Biostrata Pty Ltd)

BASIC DATA.
Palynological analysis of interval from 591 to 762 metres in Maclean-1, offshore Gippsland Basin.

by

Alan D. Partridge

Biostrata Pty Ltd
A.B.N. 39 053 800 945

Biostrata Report 2006/03B

21st February 2006

BASIC DATA.
Palynological analysis of interval from 591 to 762 metres in Maclean-1, offshore Gippsland Basin.

by Alan D. Partridge

Introduction

Nine cuttings samples have been analysed from the Maclean-1 well drilled by the Bass Strait Oil Company Ltd in permit VIC/P47 in the offshore Gippsland Basin. The samples were selected by the author from a set of washed and dried cuttings and were sent to Core Laboratories Australia Pty Ltd in Perth for processing. The palynological slides were returned on 4th January 2006, and the initial results of the microscope analysis were provided in a Provisional Report issued on 9th January 2006.

The basic sample data comprising the lithologies and weights of sample processed are provided in Table 1. The basic assemblage data comprising the visual organic residues yields, palynomorph concentrations on the slides and palynomorph preservation, and number of species of spore-pollen and microplankton recorded from individual samples are provided in Table 2. The palynological slides prepared and examined are listed in Table 3. No palynological residues were left from any of the samples after the preparation of the slides.

A standard 15 grams of the cuttings were processed to give moderate organic yields containing mostly moderate to high concentrations of palynomorphs. Preservation of the palynomorphs is mostly fair, and the recorded spore-pollen diversity is generally high, whereas significant abundances and diversities of microplankton were only recorded from the shallowest four samples.

The palynomorphs identified in the samples are documented on the accompanying StrataBugs™ range chart which displays the recorded palynomorph species in the samples proportional to their depth in the well and in terms of their absolute abundance. The palynomorphs recorded are split between different categories. The terrestrial spore-pollen are divided between spores, gymnosperm pollen and angiosperm pollen, which are plotted in separate panels. This is followed by a panel showing the total count of marine microplankton as a percentage relative to the sum of the spore-pollen and microplankton counts. Next the distribution of individual microplankton species are displayed in the panel labelled Microplankton. Other palynomorphs and Reworked palynomorphs are plotted in the final two panels. Within the panels the species are plotted according to their youngest occurrences or in alphabetical order.

The following codes or abbreviations apply to the individual species occurrences and abundances on the range chart:

Numbers	=	Absolute abundances or number of specimens counted
+	=	Species outside of count
C	=	Caved species
R	=	Reworked species
?	=	Questionable identification of species.

Author citations for most of the recorded spore-pollen species can be sourced from the papers by Dettmann (1963), Helby *et al.* (1987), Stover & Partridge (1973, 1982) or Macphail (1999), while the author citations for the microplankton species can be sourced from the indexes for dinocysts and other organic-walled microplankton prepared by Fensome *et al.* (1990) and Williams *et al.* (1998). Manuscript species names and combinations are indicated by “sp. nov.” or “comb. nov.” on the range chart.

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Table 1. Basic sample data for Maclean-1, offshore Gippsland Basin.

Sample Type	Depth metres	Lithology	Wt grams
Cuttings	591m	Medium brown-grey siltstone to mudstone with trace glauconite.	15.0
Cuttings	609m	Medium greenish brown-grey mudstone to siltstone.	15.0
Cuttings	618m	Medium brown-grey mudstone to siltstone with trace glauconite.	15.0
Cuttings	624m	Medium brownish grey mudstone to siltstone with trace glauconite.	15.0
Cuttings	633m	Light to medium brown-grey sandy claystone.	15.0
Composite Cuttings	643-645m	Light brown-grey claystone (largest pieces selected for processing)	15.0
Cuttings	678m	Medium grey mudstone and black carbonaceous mudstone to coal.	15.0
Cuttings	702m	Medium grey mudstone selected in preference to conglomerate pebbles	15.0
Cuttings	762m	Medium grey mudstone (clumped lumps selected for processing).	15.0
		Average:	**15.0**

Wt = Weight of sample processed in grams.

Table 2. Basic assemblage data for Maclean-1, offshore Gippsland Basin.

Sample Type	Depth metres	Visual Yield	Palynomorph Concentration	Preservation	No. SP Species	No. MP Species
Cuttings	591m	Moderate	Moderate	Poor-fair	43+ (1+)	11+ (2+)
Cuttings	609m	Moderate	High	Fair-good	59+ (3+)	13+ (4+)
Cuttings	618m	Moderate	Moderate	Poor	52+ (2+)	9+ (1+)
Cuttings	624m	Low	Low-Moderate	Fair	42+	5+ (4+)
Cuttings	633m	Moderate	Moderate	Poor-good	48+ (5+)	(3+)
Composite Cuttings	643-645m	Moderate	Moderate	Poor-fair	32+ (3+)	(2+)
Cuttings	678m	Moderate	High	Fair	38+ (1+)	1
Cuttings	702m	Moderate	Low	Poor-fair	19+ (6+)	1
Cuttings	762m	Moderate	High	Poor-good	36+ (2+)	1
				Average:	**43+**	**6+**

Notes:
NR = Not Recorded
Species numbers in brackets refer to number of reworked and/or caved species identified.

Table 3. Palynological slides from Maclean-1, offshore Gippsland Basin.

No.	Sample Type	Depth Metres	Catalogue Number	Core Lab Prep. No.	Description
1	Cuttings	591.0	P218678	2373	Oxidised slide 1: 10µm filter
2	Cuttings	591.0	P218679	2373	Oxidised slide 2: 10µm filter
3	Cuttings	591.0	P218680	2373	Oxidised slide 3: 10µm filter
4	Cuttings	609.0	P218681	2374	Oxidised slide 1: 10µm filter
5	Cuttings	609.0	P218682	2374	Oxidised slide 2: 10µm filter
6	Cuttings	609.0	P218683	2374	Oxidised slide 3: 10µm filter
7	Cuttings	618.0	P218684	2375	Oxidised slide 1: 10µm filter
8	Cuttings	618.0	P218685	2375	Oxidised slide 2: 10µm filter
9	Cuttings	618.0	P218686	2375	Oxidised slide 3: 10µm filter
10	Cuttings	624.0	P218687	2376	Oxidised slide 1: 10µm filter
11	Cuttings	624.0	P218688	2376	Oxidised slide 2: 10µm filter
12	Cuttings	624.0	P218689	2376	Oxidised slide 3: 10µm filter
13	Cuttings	633.0	P218690	2377	Oxidised slide 1: 10µm filter
14	Cuttings	633.0	P218691	2377	Oxidised slide 2: 10µm filter
15	Cuttings	633.0	P218692	2377	Oxidised slide 3: 10µm filter
16	Cuttings	643-645	P218693	2378	Oxidised slide 1: 10µm filter
17	Cuttings	643-645	P218694	2378	Oxidised slide 2: 10µm filter
18	Cuttings	643-645	P218695	2378	Oxidised slide 3: 10µm filter
19	Cuttings	678.0	P218696	2379	Oxidised slide 1: 10µm filter
20	Cuttings	678.0	P218697	2379	Oxidised slide 2: 10µm filter
21	Cuttings	678.0	P218698	2379	Oxidised slide 3: 10µm filter
22	Cuttings	702.0	P218699	2380	Oxidised slide 1: 10µm filter
23	Cuttings	702.0	P218700	2380	Oxidised slide 2: 10µm filter
24	Cuttings	702.0	P218701	2380	Oxidised slide 3: 10µm filter
25	Cuttings	762.0	P218702	2381	Oxidised slide 1: 10µm filter
26	Cuttings	762.0	P218703	2381	Oxidised slide 2: 10µm filter
27	Cuttings	762.0	P218704	2381	Oxidised slide 3: 10µm filter

Well Name : Maclean-1

Operator : Bass Strait Oil Co Ltd **Spudded : 16 October 2005**

Well Code : MACLEAN-1 **Completed : 22 October 2005**

Lat/Long : 38° 2' 46.32"S 148°32' 52.92"E

Interval : 565m - 775m **Palynomorph Range Chart for Latrobe Group**

Scale : 1:500 **Sample interval 591 to 762m**

Chart date: 21 February 2006 **Microscope analysis by Alan D. Partridge**

Maclean-1

Biostrata Pty Ltd
AUSTRALIA

BASIC chart for Biostrata Report 2006/03B

Depth

Samples (metres)

Spores

Absolute abundance (20mm=100 counts)

- Baculatisporites spp.
- Cyathidites spp. (large species)
- Cyathidites spp. (small species)
- Dictyophyllidites spp.
- Foveotriletes balteus
- Foveotriletes crater
- Gleicheniidites circinidites
- Ischyosporites gremius
- Ischyosporites irregularis sp. nov.
- Ischyosporites punctatus
- Laevigatosporites ovatus
- Stereisporites antiquasporites
- Triletes spores undiff.
- Verrucosisporites kopukuensis
- Cyatheacidites annulatus
- Foveotriletes palaequetrus
- Matonisporites ornamentalis
- Peromonolites densus
- Peromonolites velosus
- Polypodiisporites spp.
- Rettriletes spp.
- Ricciaesporites boxatus sp. nov.
- Rugulatisporites trophus
- Tripunctisporis maastrichtiensis
- Verrucatosporites alienalis sp. nov.
- Cicatricosisporites australiensis
- Cyathidites splendens
- Cyathidites subtilis
- Herkosporites elliottii
- Kuylisporites waterbolkii
- Murospora florida
- Marattisporites scabratus
- Foveotriletes lacunosus
- Camarozonosporites apiculata sp. nov.
- Latrobosporites crassus
- Rugulatisporites mallatus
- Verrucosisporites quadrilobatus
- Densoisporites velatus
- Latrobosporites amplus
- Ornamentifera sentosa
- Perotriletes corpulentus
- Staplinisporites caminatus
- Cicatricosisporites & Rutfordiaspora spp.
- Horriditriletes ramosus
- Rugulatisporites conoboratus sp. nov.
- Verrucosisporites admirabilis sp. nov.
- Appendicisporites distocarinatus
- Balmeisporites holodictyus
- Balmeisporites holodictyus
- Cicatricosisporites cuneiformis
- Crybeloisporites brenneri
- Cyclosporites hughesii
- Densoisporites microrugulatus sp. nov.
- Foveosporites canalis var. microfoscus
- Kluiksporites scaberis
- Laevigatosporites musa sp. nov.
- Rugulatisporites spp.
- Tripunctiletes reticulatus

Gymnosperm Pollen

Absolute abundance (20mm=100 counts)

- Araucariacites australis
- Cupressacites sp.
- Dacrycarpites australiensis
- Dilwynites granulatus
- Dilwynites tuberculatus
- Lygistepollenites florinii
- Microcachryidites antarcticus
- Parvisaccites catastus
- Phyllocladidites mawsonii
- Podocarpidites spp.
- Trichotomosulcites subgranulatus
- Lygistepollenites balmei
- Phyllocladidites reticuloacactus
- Phyllocladidites verrucosus
- Podocarpidites exiguus
- Dilwynites pusillus sp. nov.
- Dilwynites tuberculatus sp. nov.
- Phyllocladidites eunuchus sp. nov.

Angiosperm Pollen

Absolute abundance (20mm=100 counts)

- Haloragacidites harrisii
- Ilexpollenites spp.
- Malvacipollis subtilis
- Nothofagidites asperus
- Nothofagidites brachyspinulosus
- Nothofagidites deminutus
- Nothofagidites emarcidus/heterus
- Nothofagidites falcatus
- Nothofagidites flemingii
- Nothofagidites goniatus
- Nothofagidites heterus/asperus
- Periporopollenites demarcatus
- Proteacidites adenanthoides
- Proteacidites (Propylipollis) annularis
- Proteacidites pachypolus
- Proteacidites recavus
- Proteacidites spp.
- Tricolpites spp. (multiple species)
- Beaupreaidites elegansiformis
- Cupanieidites orthoteichus
- Duplopollis diversus
- Ericipites scabratus
- Haloragacidites trioratus
- Liliacidites spp.
- Malvacipollis robustus sp. nov.
- Proteacidites asperopolus
- Proteacidites cardobiindiae
- Proteacidites crassus
- Proteacidites lapis sp. nov.
- Proteacidites nasus
- Proteacidites obscurus
- Proteacidites pachydermoides
- Proteacidites reflexus
- Rhoipites alveolatus
- Santalumidites cainozoicus
- Sapotaceoidaepollenites rotundus
- Tricolpites asperopolus
- Tricolpites adelaidensis
- Tricolpites laurus
- Tricolpites (Rhoipites) sphaerica
- Bysmapollis emarcidus
- Ericipites crassiexinus
- Gephyrapollenites wonthaggiensis
- Proteacidites tuberculiformis
- Proteacidites leightonii
- Tricolpites thomasii
- Polycolporopollenites esobalteus
- Clavatipollenites glarus
- Interporopollenites notabilis
- Proteacidites (Levalanipollis) rectomarginis
- Proteacidites (Propylipollis) tuberculiformis
- Tetracolporites textus sp. nov.
- Tricolporopollenites kaitangataensis
- Tricolporopollenites spp. (multiple species)
- Nothofagidites endurus
- Nothofagidites senectus
- Tetracolporites multistriatus sp. nov.
- Gambierina rudata
- Proteacidites clinei sp. nov.
- Proteacidites (Propylipollis) crotonoides
- Proteacidites (ai. Beaupreaidites) orbiculatus
- Proteacidites latrobeensis/novus sp. nov.
- Tetracolporites verrucosus
- Senectotetradites vairreiculatus

MP%

*1

- MP MARINE (in SP count) TOTAL

Microplankton

Absolute abundance (20mm=100 counts)

- MP OTHERS (in SP count) TOTAL
- Achomosphaera spp.
- Cleistosphaeridium spp. indet. fragments
- Glaphyrocysta ordinata
- Hystrichokolpoma rigaudiae
- Impagidinium spp.
- Linguludinium machaerophorum
- Microplankton undiff. (marine)
- Operculodinium centrocarpum
- Paralecaniella indentata
- Protoellipsodinium simplex sp. nov.
- Pyxidinopsis pontus sp. nov.
- Spiniferites spp.
- Stoveracysta kakanuiensis
- Systematophora areolata/penicillata
- Deflandrea heterophlycta
- Deflandrea leptodermata
- Deflandrea phosphoritica
- Enneadocysta sp.
- Heterosphaeridium sp. nov.
- Pauciloboimorpha taiequalis
- Pauciloboimorpha spinosa
- Rhombodinium glabrum
- Vozzhennikovia rotunda
- Bohyoocous brauni
- Cordosphaeridium fibrospinosum
- Pauciloboimorpha tripus
- Spindinium spp.
- Phthanoperidinium comatum
- Fromea spp.
- Indeterminate palynomorphs

Other

*2

- Caved Spore-Pollen
- Caved Microplankton
- Reworked palynomorphs
- Foraminiferal linings & Fungal spores
- Microforaminiferal liners
- Araliaspsorites spp.
- Horriditriletes ramosus

RW

*2

Formation tops

- 591.00m CU
- 609.00m CU
- 618.00m CU
- 624.00m CU
- 633.00m CU
- 645.00m CU
- 678.00m CU
- 702.00m CU
- 762.00m CU

TD 766

APPENDIX 6

FINAL RIG POSITIONING REPORT

(By FUGRO Survey Pty Ltd)

REPORT FOR THE OCEAN PATRIOT RIG MOVE TO MACLEAN-1 LOCATION

FUGRO SURVEY JOB NO. - P0367

Client : Labrador Petro Management
1st Floor, Hampden House
74 Hampden Road
Nedlands W.A
6009

Date of Survey : 11 September – 17 October 2005

0	Final			26 October 2005
Rev	Description	Checked	Approved	Date

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CONTENTS

		PAGE NO.
ABSTRACT		***i***
1.0	**INTRODUCTION**	**1-1**
1.1	Scope of Work	1-1
1.2	Sequence of Events	1-1
2.0	**RESULTS**	**2-1**
2.1	Final Position	2-1
2.2	Rig Heading	2-1
2.3	Anchor Positions	2-2
3.0	**SAFETY**	**3-1**
4.0	**SURVEY OPERATIONS**	**4-1**
4.1	Mobilisation	4-1
4.2	General Survey Procedures	4-1
4.3	Demobilisation	4-1
5.0	**EQUIPMENT CALIBRATION**	**5-1**
5.1	DGPS Navigation Integrity Check	5-1
5.2	Gyro Compass Calibration	5-1
6.0	**SURVEY PARAMETERS**	**6-1**
6.1	Geodetic Parameters	6-1
6.2	Differential GPS Reference Stations	6-2
6.3	Project Coordinates and Tolerances	6-2
7.0	**SURVEY EQUIPMENT, VESSEL AND PERSONNEL**	**7-1**
7.1	Equipment	7-1
7.2	Vessels	7-1
7.3	Personnel	7-1
8.0	**CONCLUSIONS AND RECOMMENDATIONS**	**8-1**
9.0	**DISTRIBUTION**	**9-1**

FIGURES

FIGURE 1-1 : GENERAL LOCATION DIAGRAM 1-2
FIGURE 7-1 : EQUIPMENT FLOW DIAGRAM – MODU *OCEAN PATRIOT* 7-2
FIGURE 7-2 : EQUIPMENT FLOW DIAGRAM – AHVS 7-3
FIGURE 7-3 : VESSEL OFFSET DIAGRAM – *OCEAN PATRIOT* 7-4
FIGURE 7-4 : VESSEL OFFSET DIAGRAM – *PACIFIC WRANGLER* 7-5
FIGURE 7-5 : VESSEL OFFSET DIAGRAM – *FAR GRIP* 7-6

TABLES

TABLE 2-1 : GEOGRAPHICAL POSITIONS FOR MACLEAN-1 2-1
TABLE 2-2 : GRID COORDINATES FOR MACLEAN-1 2-1
TABLE 2-3 : RIG HEADING AT MACLEAN-1 2-1
TABLE 2-4 : MACLEAN-1 ANCHOR POSITIONS 2-2
TABLE 5-1 : DGPS NAVIGATION INTEGRITY CHECK 5-1
TABLE 6-1 : TRANSFORMATION PARAMETERS 6-1
TABLE 6-2 : DGPS REFERENCE STATIONS 6-2
TABLE 6-3 : PROJECT DESIGN COORDINATES 6-2

APPENDICES

APPENDIX A : DAILY OPERATIONS REPORTS
APPENDIX B : FINAL POSITIONING DATA
APPENDIX C : DGPS AND GYRO CHECKS
APPENDIX D : CLIENT SUPPLIED INFORMATION

ABSTRACT

Between 11 October and 17 October 2005, Fugro Survey Pty Ltd (Fugro) provided equipment and personnel for the semi-submersible Mobile Offshore Drilling Unit Ocean Patriot rig move from Gilbert-1A to Maclean-1 location in Permit VIC/P-47 in Bass Strait, Australia.

Surface positioning was provided by Fugro's Multiple Reference Differential Global Positioning System (MRDGPS) and Starfix.Seis Navigation Software.

The final position for the drill stem derived from DGPS observations at the Maclean-1 location is:

Location Name:	**Maclean-1**
Easting (m):	635831.9
Northing (m):	5787927.9
Latitude:	38° 02' 46.32" S
Longitude:	148° 32' 52.92" E
Rig Heading:	248.45° (True)

This position is 4.1m on a bearing of 336.7° (Grid) from the proposed Maclean-1 location.

All coordinates in this report are referenced to the Geocentric Datum of Australia 1994 (GDA94) and projected onto the Map Grid of Australia 1994 (MGA94) Zone 55 (CM 147° E), unless otherwise stated.

All times in this report are quoted in Australian Eastern Standard Time (EST) unless otherwise stated.

1.0 INTRODUCTION

Fugro Survey Pty Ltd (Fugro) was contracted by Bass Strait Oil Company Ltd (BSOC) to provide navigation and positioning survey services on board the semi-submersible Mobile Offshore Drilling Unit (MODU) *Ocean Patriot*, during the rig move to Maclean-1 location in Permit VIC/P-47, Bass Strait, Australia.

A general location diagram is shown as Figure 1-1.

This report details equipment used, survey parameters adopted, procedures employed and the results achieved. A section on safety is included in Section 3.0 of this report.

1.1 Scope of Work

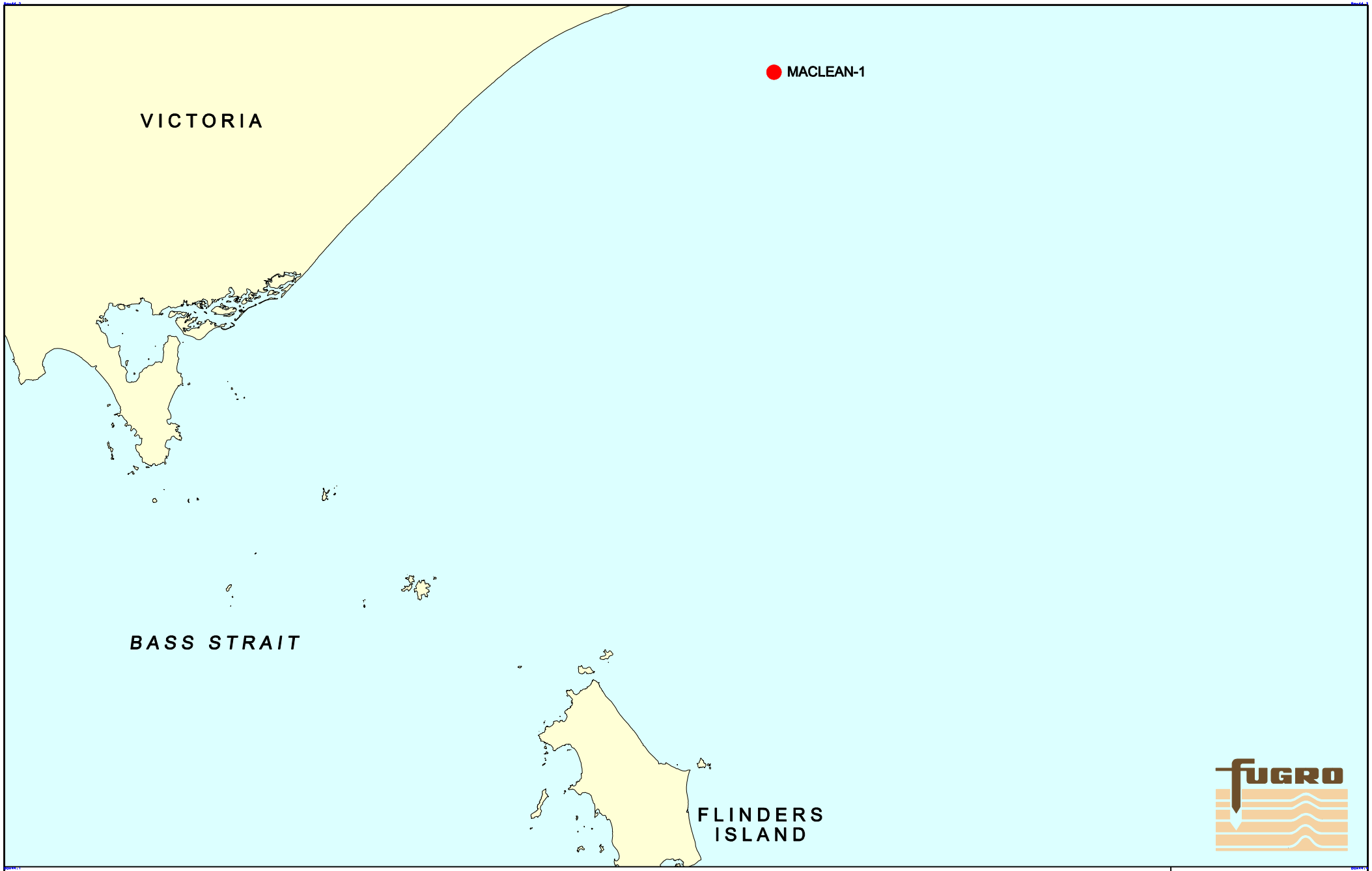
Personnel and equipment were provided on a 24 hour per day basis for:

- Calibration and function testing of the survey equipment on board the rig and the two Anchor Handling Vessels (AHVs).
- Surface navigation for the *Ocean Patriot*, using Fugro's MRDGPS (Multi Reference DGPS) and Starfix.Spot DGPS services.
- Surface navigation for AHVs during anchoring operations, using Starfix.Spot DGPS.
- Final rig surface positioning at Maclean-1 location using DGPS observations.
- Final reporting of the positioning results.

1.2 Sequence of Events

On 11 October 2005, C.Simonson arrived onboard the Ocean Patriot. On 12 October 2005 M.Elmslie departed Perth for Melbourne and then on the 13 October 2005 arrived onboard the *Ocean Patriot*. After equipment calibrations, anchors were recovered at Gilbert-1A on 13 October 2005, with the tow commencing at 14:00 on 14 October 2005. Between 14 and 15 October 2005, anchors were deployed with the rig positioned on location at Maclean-1 at 06:22 on 15 October2005. Fugro personnel departed the rig on 17 October 2005.

Further details of Fugro's involvement in the rig move are presented in the Daily Operations Reports included in Appendix A.



GENERAL LOCATION DIAGRAM

FIGURE 1-1

u:$7\dgn\figure\report\figure1-1.dgn

2.0 RESULTS

2.1 Final Position

The final position of the *Ocean Patriot* drill stem at Maclean-1 location was established by calculating the mean position from one hour of DGPS data logged between 18:09 and 19:09 on 16 October 2005. During this period, calculated drill stem coordinates from the primary and secondary positioning systems were logged at five second intervals in Starfix.Seis. Data from the primary positioning system were used for the final position calculation.

Differential GPS corrections were derived using a multi-reference solution with base station data from Bathurst, Cobar and Melbourne.

GDA94 geographical positions for the Maclean-1 location are shown in Table 2-1.

GDA94			
Position	**Method**	**Latitude**	**Longitude**
Drill Stem at Surface	MRDGPS	38° 02' 46.32" S	148° 32' 52.92" E
Proposed Location	-	38° 02' 46.44" S	148° 32' 52.99" E

TABLE 2-1 : GEOGRAPHICAL POSITIONS FOR MACLEAN-1

GDA94 grid coordinates (CM 147° E) for the Maclean-1 location are shown in Table 2-2.

GDA94, MGA, CM147°E			
Position	**Method**	**Easting (m)**	**Northing (m)**
Drill Stem at Surface	MRDGPS	635831.9	5787927.9
Proposed Location	-	635833.5	5787924.2

TABLE 2-2 : GRID COORDINATES FOR MACLEAN-1

This position is 4.1m at a bearing of 336.7° (Grid) from the design location.

A copy of the original rig position field report is contained in Appendix B.

2.2 Rig Heading

The heading of the *Ocean Patriot* at Maclean-1 location was established by calculating the average heading during one hour of corrected gyro compass readings logged between 18:09 and 19:09 on 16 October 2005. During this period, gyro readings were logged at five second intervals in Starfix.Seis.

The *Ocean Patriot's* heading at the Maclean-1 location is shown in Table 2-3.

Description	**Method**	**True**	**Grid**
Rig Heading	Gyro	248.45°	249.40°
Proposed Heading	-	250°	**-**

TABLE 2-3 : RIG HEADING AT MACLEAN-1

2.3 Anchor Positions

The approximate locations of the *Ocean Patriot's* anchors at Maclean-1 are shown in Table 2-4.

GDA94, MGA, CM147°E				
Anchor	**Easting (m)**	**Northing (m)**	**Azimuth**	**Deployed By**
1	634930	5788034	275.0°	*Pacific Wrangler*
2	635151	5788500	310.2°	*Pacific Wrangler*
3	636025	5788824	11.1°	*Pacific Wrangler*
4	636584	5788891	37.8°	*Pacific Wrangler*
5	636789	5787793	96.1°	*Pacific Wrangler*
6	636550	5787325	129.4°	*Far Grip*
7	635644	5787022	189.8°	*Far Grip*
8	635253	5787208	218.4°	*Pacific Wrangler*

TABLE 2-4 : MACLEAN-1 ANCHOR POSITIONS

The approximate coordinates of the *Ocean Patriot'*s anchors were calculated from:

- The azimuth from the fairlead position to the AHVs stern position at the time of anchor deployment.
- The range from the fairlead position to the anchor, as obtained from the on board chain counter, corrected for catenary.

3.0 SAFETY

All work undertaken by Fugro personnel during the project was performed within the guidelines of Fugro's Safety Policy, as defined in Fugro's Safety Manual (SMS-P01) and Offshore Survey Safety Practices (SMS-SP26).

Fugro personnel worked within all project safety guidelines and plans adopted by Santos and Diamond Offshore.

No safety incidents involving Fugro personnel were reported during the project.

Fugro personnel attended a vessel induction, pre-rig move meeting, weekly safety meeting and muster drill whilst on board.

A Project Specific Safety Plan was developed for positioning services on board the *Ocean Patriot* for the Maclean-1 rig move.

4.0 SURVEY OPERATIONS

4.1 Mobilisation

Fugro survey team members arrived on board the *Ocean Patriot* on 11 October 2005, and 13 October 2005, whilst it was located at Gilbert-1A. Following a rig induction, the survey equipment on board was powered up and system and function tests completed.

4.2 General Survey Procedures

Anchor recovery at Gilbert-1A was accomplished between 22:46 on 13 October 2005 and 14:00 on 14 October 2005. The tow to Maclean-1 was conducted with the *Far Grip* connected to the main tow bridle.

The *Far Grip* manoeuvred the rig onto Maclean-1 location using an approach run-in line of two nautical miles extended from Anchor #4 drop point through to the proposed location. Anchoring operations commenced at 21:08 on 14 October 2005, with the deployment of anchor #4 by the *Pacific Wrangler*. The *Far Grip* continued the tow along the run-in, with the rig paying out anchor chain until positioned over the proposed Maclean-1 location.

After establishing that Anchor #4 was holding and the rig was maintaining its position, the *Pacific Wrangler* then ran Anchors #8, #1, #5, #2 and #3. The *Far Grip* was released from the tow bridle after the primary anchors were deployed and subsequently ran Anchors #6 and #7.

During the deployment of each anchor, the AHVs were provided with a waypoint and the corresponding run line via the Wombat telemetry system. The AHVs ran out the anchor chain along this line to the desired drop point. The anchor chain was stretched out and the anchor lowered to the seabed. After confirming that the anchor was holding, the vessel then stripped the chain chaser back to the rig.

The *Ocean Patriot* was positioned over Maclean-1 location with all anchoring and pre-tensioning complete at 06:22 on 15 October 2005. Final position data was logged between 18:09 and 19:09 on 16 October 2005. After the 30-inch casing was cemented, a rig positioning field report was issued to the Bass Strait Oil Company survey representative (see Appendix B).

4.3 Demobilisation

All navigation systems on board the *Ocean Patriot* left operational and the systems onboard the AHVs were switched off during demobilisation and left on board the vessels for the anchor recovery at Maclean-1.

Fugro personnel departed the rig and returned to Perth and New Plymouth on 17 October 2005.

5.0 EQUIPMENT CALIBRATION

5.1 DGPS Navigation Integrity Check

In order to check the correct operation of the navigation systems installed on board the *Ocean Patriot*, DGPS data was logged for 10 minutes on 13 October 2005, whilst the rig was located at Gilbert-1A.

A comparison of the primary and secondary DGPS was also conducted. The results from both of these tests are provided in Table 5-1.

GDA94, MGA, CM 141°E		
	Easting (m)	**Northing (m)**
Established Well Coordinates	620701.10	5798512.10
Observed Coordinates	620701.73	5798512.38
Difference	-0.63	-0.28
Primary Navigation	620701.73	5798512.38
Secondary Navigation	620702.56	5798512.48
Difference	-0.83	-0.10

TABLE 5-1 : DGPS NAVIGATION INTEGRITY CHECK

The DGPS checks described above demonstrated that the navigation systems on board the *Ocean Patriot* were set up and working correctly.

A positioning check list was completed at Maclean-1 location to confirm the proposed rig position and ensure that the correct geodetic datum, transformation and projection parameters were being used. Geodetic calculations were performed using Starfix.Seis.

Details of all positioning checks are provided in Appendix C.

5.2 Gyro Compass Calibration

The calibration of the survey gyro compass was carried out on 13 October 2005, whilst the rig was located at Gilbert-1A.

A series of observations were made to the sun from which the rig heading was calculated. The calculated values were then compared to the observed gyro compass values logged in Starfix.Seis and a mean C-O value of +0.70° was determined. This correction was applied in the navigation suite.

Details of the gyro calibration are included in Appendix C.

6.0 SURVEY PARAMETERS

6.1 Geodetic Parameters

All coordinates are referenced to the Geocentric Datum of Australia 1994 (GDA94) unless otherwise noted. The Global Positioning System (GPS) operates on the World Geodetic System 1984 (WGS84) datum. Fugro's Differential GPS Reference Stations are currently defined in the International Terrestrial Reference Frame 2000 (ITRF2000 Epoch 2005.75) datum. Due to the continual refinement of the WGS84 reference frame, for all cases, the transformation parameters indicate that the WGS84 and ITRF2000 reference frames are essentially identical.

Datum	**:**	**World Geodetic System 1984 (WGS84)**
Reference Spheroid	:	World Geodetic System 1984
Semi Major Axis	:	6378137.000m
Inverse flattening	:	298.257223563

Datum	**:**	**Geocentric Datum of Australia 1994 (GDA94)**
Reference Spheroid	:	Geodetic Reference System 1980 (GRS80)
Semi Major Axis	:	6378137.000m
Inverse flattening	:	298.257222101

The following seven parameter datum transformation (Table 6-1) was used in Fugro's software, to transform WGS84 (ITRF2000 Epoch 2005.50) coordinates to GDA94 coordinates. These parameters are calculated from the 14 parameter transformation defined by Geoscience Australia. Fugro follows the Coordinate Frame Rotation convention (as defined by UKOOA) for datum transformations.

Transformation Parameters from WGS84 (ITRF2000 Epoch 2005.50) to GDA94			
dX	-0.0156m	rX	+0.01445"
dY	-0.0349m	rY	+0.013050"
dZ	-0.0513m	rZ	+0.015037"
		dS	+0.004977ppm

TABLE 6-1 : TRANSFORMATION PARAMETERS

The proposed drilling location and all project coordinates are grid coordinates on the Map Grid of Australia.

Grid	**:**	**Map Grid of Australia (MGA94)**
Projection	:	Transverse Mercator
Latitude of Origin	:	0°
Central Meridian	:	147° E (UTM Zone 55)
Central Scale Factor	:	0.9996
False Easting	:	500000m
False Northing	:	10000000m
Units	:	Metres

6.2 Differential GPS Reference Stations

Fugro's Differential GPS Reference Stations are currently defined in the ITRF2000 (Epoch 2005.75) datum and are shown in Table 6-2.

ITRF 2000, EPOCH 2005.75					
Station	**Id**	**Latitude**	**Longitude**	**Height (m)**	**Uplink**
Bathurst	336	33° 25' 46.88203" S	149° 34' 01.96830" E	756.661	Optus/APSat
Cobar	316	31° 29' 57.43417" S	145° 50' 20.34389" E	270.165	Optus/APSat
Melbourne	385	37° 48' 29.00801" S	144° 57' 48.02855" E	82.059	Optus/APSat

TABLE 6-2 : DGPS REFERENCE STATIONS

6.3 Project Coordinates and Tolerances

Project target coordinates and surface tolerance for Maclean-1 location were supplied by Upstream and are shown in Table 6-3. Client supplied information is provided in Appendix D.

GDA94, MGA, CM 147°E			
Location	**Easting (m)**	**Northing (m)**	**Tolerances**
Maclean-1	635833.5	5787924.2	20m radius

TABLE 6-3 : PROJECT DESIGN COORDINATES

7.0 SURVEY EQUIPMENT, VESSEL AND PERSONNEL

7.1 Equipment

Survey equipment used for the positioning of the *Ocean Patriot* was as follows:

Ocean Patriot

2 x Starfix satellite DGPS (1 Optus link, 1 APSat link)
2 x Trimble 4000 series GPS receivers
2 x Pentium III computers, running Fugro's Starfix.Seis navigation software suite (1 spare)
4 x 15" monitors (2 Seis, 1 Helm, 1 spare)
1 x SG Brown gyro compass
1 x Tokimec gyro compass (spare)
2 x Uninterruptible power supply units (UPS)
1 x Teledesign radio/modem
1 x Theodolite, tripod and dark glass
1 x Printer

AHVs (complete system per vessel, plus one complete set of spares)

1 x Pentium computers, running Starfix Display/Wombat
1 x Monitors
1 x Trimble 4000 series GPS receiver
1 x Fluxgate compasses
1 x Teledesign radio/modems

All systems were provided complete with all necessary cabling, connectors, power supplies, antennae, accessories, manuals and consumables.

Refer to Figure 7-1 for an equipment flow diagram for the *Ocean Patriot* and Figure 7-2 for the equipment flow diagram for the AHVs.

7.2 Vessels

The vessels used for anchor handling and towing the *Ocean Patriot* were the *Pacific Wrangler* and the *Far Grip*. Refer to Figure 7-3, Figure 7-4 and Figure 7-5 for the vessel offset diagrams.

7.3 Personnel

Fugro personnel involved in the rig move and positioning operations were as follows:

M. Elmslie	Surveyor	13 Oct – 17 Oct 2005
C. Simonson	Surveyor	11 Oct – 17 Oct 2005

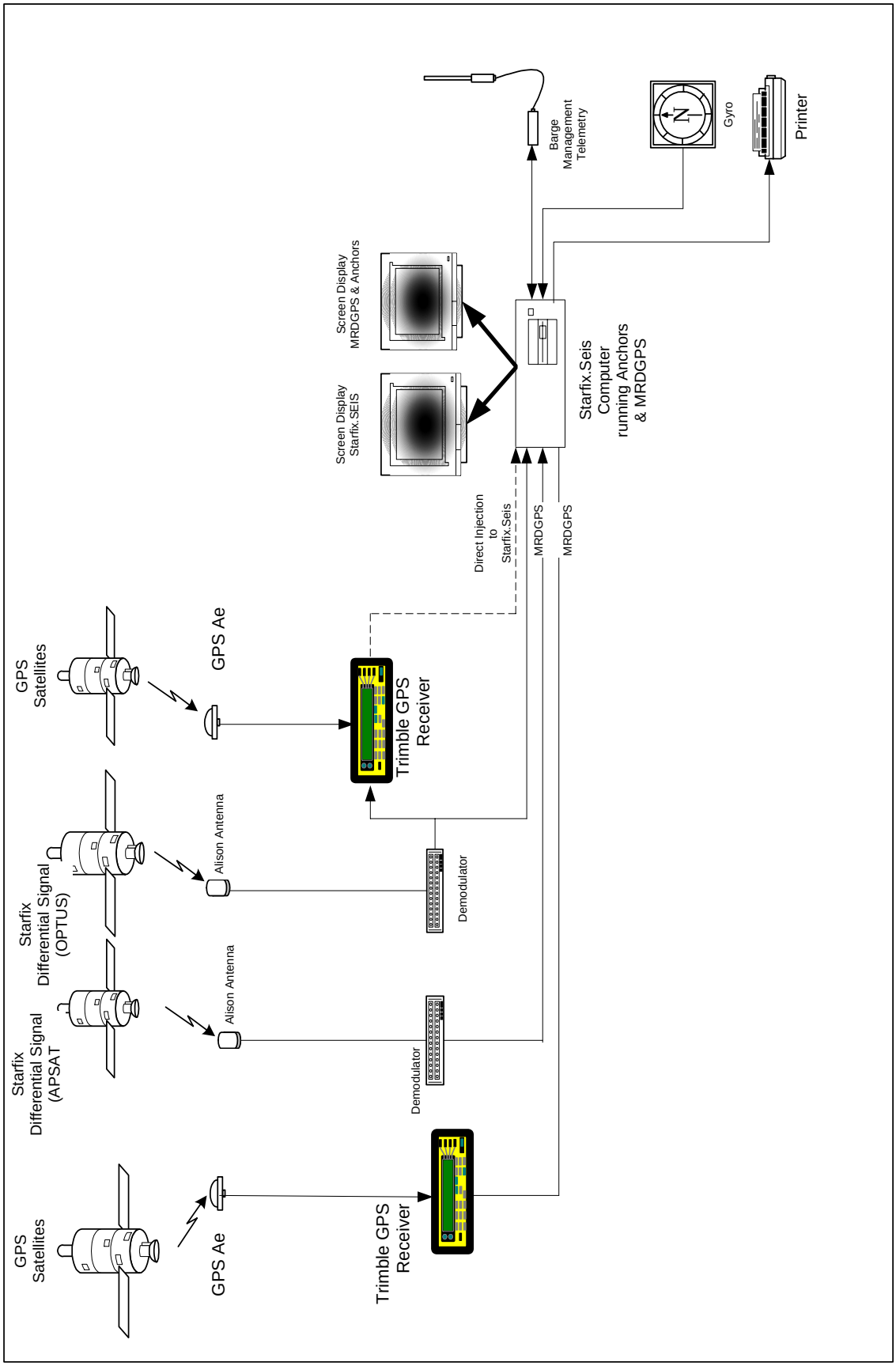


FIGURE 7-1 : EQUIPMENT FLOW DIAGRAM – MODU *OCEAN PATRIOT*

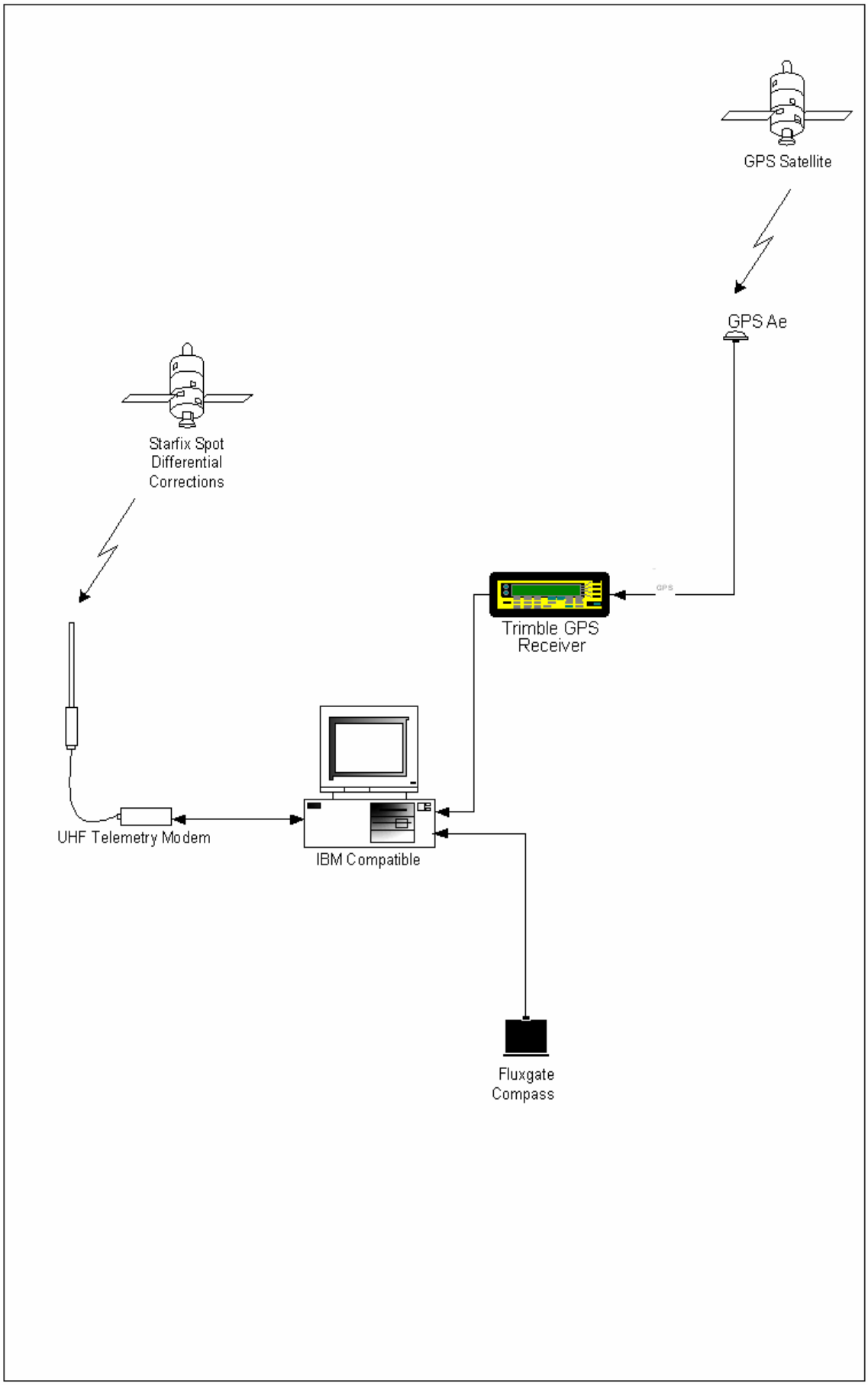
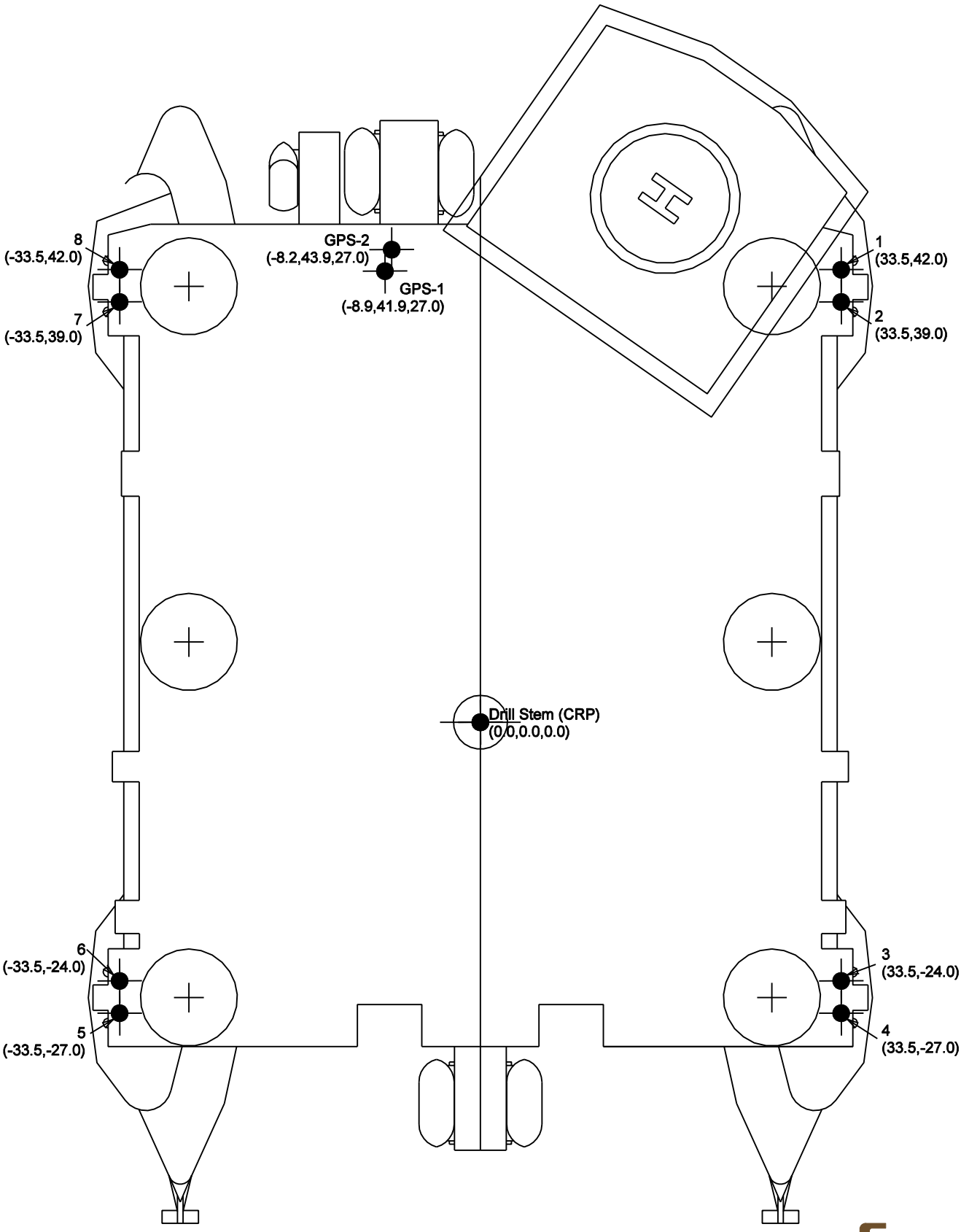


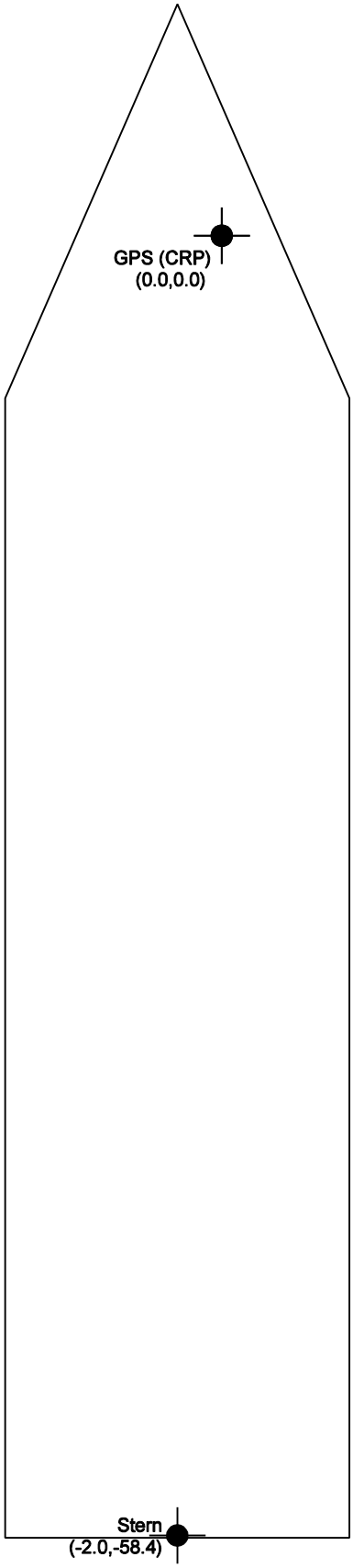
FIGURE 7-2 : EQUIPMENT FLOW DIAGRAM – AHVS



VESSEL OFFSET DIAGRAM – OCEAN PATRIOT

FIGURE 7–3

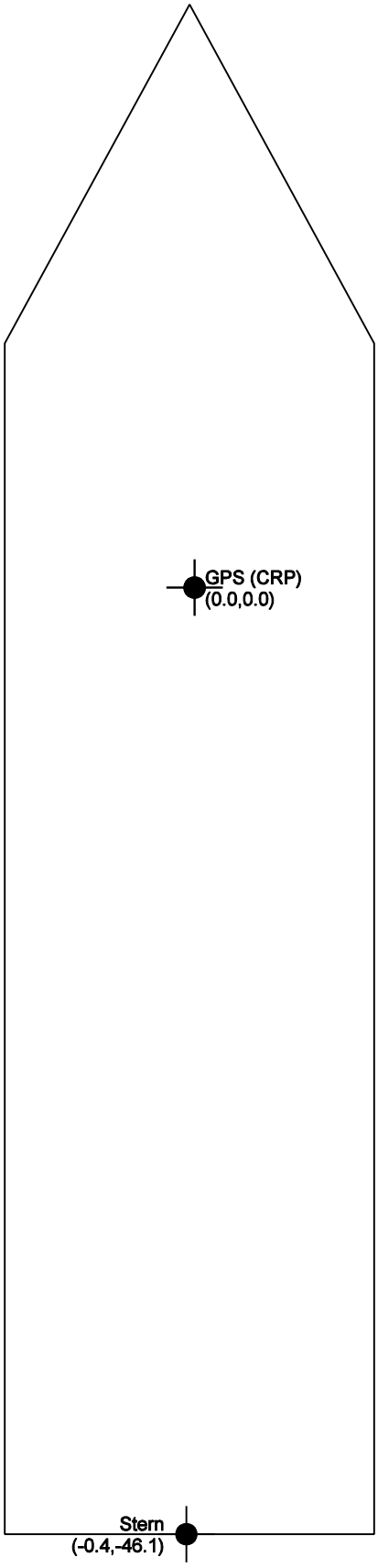
u:\p0367\dgn\figure\report\figure7-3.dgn



VESSEL OFFSET DIAGRAM – PACIFIC WRANGLER

FIGURE 7–4

u:\p0367\dgn\figure\report\figure7-4.dgn



VESSEL OFFSET DIAGRAM – FAR GRIP

FIGURE 7–5

u:\p0367\dgn\figure\report\figure7-5.dgn

8.0 CONCLUSIONS AND RECOMMENDATIONS

- The *Ocean Patriot* was successfully positioned during the towing and anchoring operations and at Maclean-1 location.
- The *Far Grip* and *Pacific Wrangler* were successfully positioned during the towing and anchoring operations.
- The surface position of Maclean-1 well was determined.

9.0 DISTRIBUTION

Copies of this report have been distributed as follows:

Bass Strait Oil Company Ltd	: 2 hard copies
Attn: Mr. P. O'Shea	: 1 electronic copy
(Labrador Petro Management)	
Fugro Survey Pty Ltd	: 1 hard copy
	: 1 electronic copy

APPENDIX A
DAILY OPERATIONS REPORTS

Fugro Survey Pty Ltd
PM-F50

DAILY OPERATIONS REPORT

CLIENT: BASS STRAIT OIL CO.	LOCATION: GILBERT-1	DATE: 10/10/2005
PROJECT: RIG MOVE	VESSEL: OCEAN PATRIOT	JOB NO: P0367

FROM	TO	SUMMARY OF OPERATIONS
0830	1030	C.Simonson travels from Essedon airport to Ocean Patriot.
1030	2359	C.Simonson on standby.

EQUIPMENT	NO.	EQUIPMENT	NO.	PERSONNEL	TITLE
Seis Computer	1	Laptop	1	C.Simonson	Surveyor
Gyrocompass	1	Trimble Receivers	2		
Demodulators	2	Theodolite	1		
AHV x 2 (Wombat)	2	Radio Modem	1		
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION: HOLIDAY INN					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0367-01

Fugro Survey Pty Ltd
PM-F50

DAILY OPERATIONS REPORT

CLIENT: BASS STRAIT OIL CO.	LOCATION: GILBERT-1	DATE: 11/10/2005
PROJECT: RIG MOVE	VESSEL: OCEAN PATRIOT	JOB NO: P0367

FROM	TO	SUMMARY OF OPERATIONS
0001	2359	Fugro personnel on standby.

EQUIPMENT	NO.	EQUIPMENT	NO.	PERSONNEL	TITLE
Seis Computer	1	Laptop	1	C.Simonson	Surveyor
Gyrocompass	1	Trimble Receivers	2		
Demodulators	2	Theodolite	1		
AHV x 2 (Wombat)	2	Radio Modem	1		

VEHICLES:

CONSUMABLES:

ACCOMMODATION: HOLIDAY INN

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0367-02

Fugro Survey Pty Ltd
PM-F50

DAILY OPERATIONS REPORT

CLIENT: BASS STRAIT OIL CO.	LOCATION: GILBERT-1	DATE: 12/10/2005
PROJECT: RIG MOVE	VESSEL: OCEAN PATRIOT	JOB NO: P0367

FROM	TO	SUMMARY OF OPERATIONS
0630	1300	M.Elmslie travels from Perth to Melbourne, via Adelaide.
1300		M.Elmslie checks into Holiday Inn.

EQUIPMENT	NO.	EQUIPMENT	NO.	PERSONNEL	TITLE
Seis Computer	1	Laptop	1	M.Elmslie	Surveyor
Gyrocompass	1	Trimble Receivers	2	C.Simonson	Surveyor
Demodulators	2	Theodolite	1		
AHV x 2 (Wombat)	2	Radio Modem	1		
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION: HOLIDAY INN					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0367-03

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: BASS STRAIT OIL CO.	LOCATION: GILBERT-1	DATE: 13/10/2005
PROJECT: RIG MOVE	VESSEL: OCEAN PATRIOT	JOB NO: P0367

FROM	TO	SUMMARY OF OPERATIONS
0730		M.Elmslie checks out of Holiday Inn.
0830	1010	M.Elmslie travels from Essedon to Ocean Patriot.
1100		Equipment operational.
1805	1820	Conduct sun observations for gyro calibration, C-O of 0.7° entered into Seis.
1900	1910	Conduct check position fix, difference from published coords E=-0.63m N=-0.28m
2246	2359	Anchor recovery operations.

EQUIPMENT	NO.	EQUIPMENT	NO.	PERSONNEL	TITLE
Seis Computer	1	Laptop	1	M.Elmslie	Surveyor
Gyrocompass	1	Trimble Receivers	2	C.Simonson	Surveyor
Demodulators	2	Theodolite	1		
AHV x 2 (Wombat)	2	Radio Modem	1		
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0367-04

Fugro Survey Pty Ltd
PM-F50

DAILY OPERATIONS REPORT

CLIENT: BASS STRAIT OIL CO.	LOCATION: GILBERT-1	DATE: 14/10/2005
PROJECT: RIG MOVE	VESSEL: OCEAN PATRIOT	JOB NO: P0367

FROM	TO	SUMMARY OF OPERATIONS
0001	1400	Anchor recovery operations.
1400		Rig under tow.
1900		Commencing run-in to #4 anchor.
2108		#4 Anchor on bottom 636610 E 5788923 N (P.Wrangler)
2130		Rig at Maclean-1 location.
2301		#8 Anchor on bottom 635219 E 5787165 N (P.Wrangler)

EQUIPMENT	NO.	EQUIPMENT	NO.	PERSONNEL	TITLE
Seis Computer	1	Laptop	1	M.Elmslie	Surveyor
Gyrocompass	1	Trimble Receivers	2	C.Simonson	Surveyor
Demodulators	2	Theodolite	1		
AHV x 2 (Wombat)	2	Radio Modem	1		
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0367-05

DAILY OPERATIONS REPORT

CLIENT: BASS STRAIT OIL CO.	LOCATION: GILBERT-1	DATE: 15/10/2005
PROJECT: RIG MOVE	VESSEL: OCEAN PATRIOT	JOB NO: P0367

FROM	TO	SUMMARY OF OPERATIONS
0004		#5 Anchor on bottom 636836 E 5787787 N (P.Wrangler)
0125		#1 Anchor on bottom 634885 E 5788037 N (P.Wrangler)
0157		Far Grip released from tow bridle.
0256		#3 Anchor on bottom 636036 E 5788879 N (P.Wrangler)
0311		#7 Anchor on bottom 635626 E 5786931 N (Far Grip)
0420		#2 Anchor on bottom 635103 E 5788538 N (Wrangler)
0454		#6 Anchor on bottom 636598 E 5787282 N (Far Grip)
0500		Ballasting down to drilling draft.
0510	0613	Cross tensioning of anchors.
0614	0622	Skidding rig onto location.
0622	0633	Conduct Preliminary Position fix, Drillstem is 2.8m on a bearing of 304°(G) from the intended Maclean-1 location.
0633	2359	Fugro personnel on standby.

EQUIPMENT	NO.	EQUIPMENT	NO.	PERSONNEL	TITLE
Seis Computer	1	Laptop	1	M.Elmslie	Surveyor
Gyrocompass	1	Trimble Receivers	2	C.Simonson	Surveyor
Demodulators	2	Theodolite	1		
AHV x 2 (Wombat)	2	Radio Modem	1		
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0367-06

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: BASS STRAIT OIL CO.	LOCATION: GILBERT-1	DATE: 16/10/2005
PROJECT: RIG MOVE	VESSEL: OCEAN PATRIOT	JOB NO: P0367

FROM	TO	SUMMARY OF OPERATIONS
0350		Spud in.
1030	1045	Fugro personnel attend muster drill.
1300	1330	Fugro personnel attend weekly safety meeting.
1809	1909	Conduct final position fix. Ocean patriot drillstem is 4.1m on a bearing of 336.7°(G)
		From the intended Maclean-1 location.
		38° 05' 46.32" S 635 831.9mE
		148° 32' 52.92" N 5787927.9mN
		Final rig heading = 248.45°(T)

EQUIPMENT	NO.	EQUIPMENT	NO.	PERSONNEL	TITLE
Seis Computer	1	Laptop	1	M.Elmslie	Surveyor
Gyrocompass	1	Trimble Receivers	2	C.Simonson	Surveyor
Demodulators	2	Theodolite	1		
AHV x 2 (Wombat)	2	Radio Modem	1		
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0367-07

DAILY OPERATIONS REPORT

CLIENT: BASS STRAIT OIL CO.	LOCATION: GILBERT-1	DATE: 17/10/2005
PROJECT: RIG MOVE	VESSEL: OCEAN PATRIOT	JOB NO: P0367

FROM	TO	SUMMARY OF OPERATIONS
0845	1030	Fugro personnel depart Ocean Patriot and travel to Essedon airport.
1230	1430	M.Elmslie travels from Melbourne to Perth.
1830	2359	C.Simonson travels from Melbourne to New Plymouth.

EQUIPMENT	NO.	EQUIPMENT	NO.	PERSONNEL	TITLE
Seis Computer	1	Laptop	1	M.Elmslie	Surveyor
Gyrocompass	1	Trimble Receivers	2	C.Simonson	Surveyor
Demodulators	2	Theodolite	1		
AHV x 2 (Wombat)	2	Radio Modem	1		
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0367-08

APPENDIX B
FINAL POSITIONING DATA

RIG POSITION FIELD REPORT

Maclean-1

Client :	**Bass Strait Oil Company**	**Job Number :**	**P0367**
Rig :	**Ocean Patriot**	**Date:**	**16-Oct-05**
Project :	**Rig Move to Maclean-1, Bass Strait**		
Attention :	**J.Rutherford BSOC Representive**		

The Final surface location of the drill stem on the Ocean Patriot was derived from 60min of observations of the Primary Differential GPS Data, between 18:09:00hrs and 19:09:00hrs on completion of anchor pre-tensioning, ballasting operations and spudding operations.

The results of the observations are as follows:

Geographical Coordinates			**Grid Coordinates**	
Latitude (ϕ)	**-038° 02' 46.32"**	**South**	**Easting**	**635831.9**
Longitude (λ)	**148° 32' 52.92"**	**East**	**Northing**	**5787927.9**

The drill stem position is **4.1 m** at a bearing of **336.7°** Grid from the design location.

The Client supplied design location Maclean-1 .

Geographical Coordinates			**Grid Coordinates**	
Latitude (ϕ)	**-038° 02' 46.44"**	**South**	**Easting**	**635833.5**
Longitude (λ)	**148° 32' 52.99"**	**East**	**Northing**	**5787924.2**

The Ocean Patriot's rig heading, derived from the mean of 60 minutes of gyro heading data is:

248.45° TRUE 249.40° Grid

All coordinates in this field report are quoted in the following coordinate system:

Datum :	GDA94 (Australia-ITRF-2005.50)	Projection :	Transverse Mercator (UTM)
Spheroid :	GRS80	Zone (Central Meridian) :	55 147° East

The approximate positions of the rig anchors corrected for catenary are as follows:

Anchor	Easting	Northing	Azimuth(°) - True
1	634930	5788034	276.0°
2	635151	5788500	311.2°
3	636025	5788824	12.0°
4	636584	5788891	38.7°
5	636789	5787793	97.0°
6	636550	5787325	130.3°
7	635644	5787022	190.7°
8	635253	5787208	219.3°

Party Chief/Surveyor:

Mick Elmslie

J.Rutherford

APPENDIX C
DGPS AND GYRO CHECKS

RIG POSITIONING
DGPS CHECK LIST (PRE RIG MOVE)

Client : **Bass Strait Oil Company** **Job Number :** **P0367**

Rig : **Ocean Patriot** **Date:** **13-Oct-05**

Project : **Rig Move to Maclean-1, Bass Strait**
from **Gilbert-1** **to** **Maclean-1**

1) ESTABLISHED WELL COORDINATES
Horizontal Datum: GRS80
Observe 10minutes of DGPS data, logging both Primary and Secondary systems.
Establish a mean drill stem position from the primary navigation system and compare against the established well coordinates.

	Easting	Northing
Established Well Coordinates	620701.10	5798512.10
Observed Coordinates	620701.73	5798512.38
Differences	-0.63	-0.28

Note: Prior to logging DGPS data for the check fix, the Ocean Patriot had moved off location to recover the BOP.

Ensure agreement OK(?) Y / N
If No, Check and ensure that rig has not moved off location.

2) PRIMARY/SECONDARY NAV SYSTEMS
From the data logged above, compare the observed coordinates for both Primary and Secondary navigation systems.

	Easting	Northing
Primary Navigation	620701.73	5798512.38
Secondary Navigation	620702.56	5798512.48
Differences	-0.83	-0.10

Ensure agreement OK(?) Y / N
If No, Check antenna offsets and gyro calibration.

Party Chief/Surveyor: _____ Client Representative : _____
Mick Elmslie J.Rutherford

GYRO COMPASS CALIBRATION BY SUN AZIMUTH - CALCULATION SUMMARY

Fugro Job Number:	P0367	**Vessel:**	Ocean Patriot
Job Description:	Rig Move to Maclean-1, Bass Strait	**Instrument**	Wild T2
Client:	Bass Strait Oil Company	**Serial No.**	130532
Surveyor:	Mick Elmslie	**Date:**	13-Oct-05
		Time Zone :	10hrs

Vessel Details

Enter correction from RO to vessel centreline — D: 180° M: 16 ' S: 31 "

Enter approximate WGS84 position of instrument :

	D	M	S
Latitude (ϕ)	-37 °	57 '	11 "
Longitude (λ)	148 °	22 '	24 "

Observations

Obs. No.	Date	UTC	Instrument Position		Calculated Sun Azimuth at UTC		Observed Direction to Sun				Calc'd Vessel Hdg	Obs'd Vessel Hdg	Sun Semi Diameter	(C-O) Degrees
			Latitude (ϕ) DMS	Longitude (λ) DMS	DMS	Dec. Deg	Deg	Min	Sec	Dec. Deg				
1	13-Oct-05	8:07:15	-037° 57' 11.00"	148° 22' 24.00"	261° 35' 8.47"	261.586 °	193°	25'	40	193.428	248.433 °	247.83 °	0.2677	0.60 °
2	13-Oct-05	8:08:46	-037° 57' 11.00"	148° 22' 24.00"	261° 35' 8.47"	261.354 °	193°	06'	17	193.105	248.524 °	247.67 °	0.2677	0.86 °
3	13-Oct-05	8:17:38	-037° 57' 11.00"	148° 22' 24.00"	261° 35' 8.47"	259.992 °	191°	40'	18	191.672	248.596 °	248.00 °	0.2677	0.60 °
4	13-Oct-05	8:18:09	-037° 57' 11.00"	148° 22' 24.00"	261° 35' 8.47"	259.913 °	192°	03'	14	192.054	248.134 °	247.50 °	0.2677	0.63 °
5	13-Oct-05	8:18:42	-037° 57' 11.00"	148° 22' 24.00"	261° 35' 8.47"	259.828 °	191°	26'	0	191.433	248.670 °	248.00 °	0.2677	0.67 °
6	13-Oct-05	8:19:16	-037° 57' 11.00"	148° 22' 24.00"	261° 35' 8.47"	259.741 °	191°	49'	22	191.823	248.193 °	247.50 °	0.2677	0.69 °
7	13-Oct-05	8:19:49	-037° 57' 11.00"	148° 22' 24.00"	261° 35' 8.47"	259.656 °	191°	24'	28	191.408	248.523 °	247.67 °	0.2677	0.86 °
8	13-Oct-05	8:20:16	-037° 57' 11.00"	148° 22' 24.00"	261° 35' 8.47"	259.586 °	191°	18'	12	191.303	248.558 °	247.83 °	0.2677	0.72 °
9	13-Oct-05	8:20:34	-037° 57' 11.00"	148° 22' 24.00"	261° 35' 8.47"	259.540 °	191°	32'	41	191.545	248.271 °	247.67 °	0.2677	0.60 °
10	13-Oct-05	8:20:55	-037° 57' 11.00"	148° 22' 24.00"	261° 35' 8.47"	259.486 °	191°	30'	11	191.503	248.258 °	247.50 °	0.2677	0.76 °

Mean	**0.70 °**
Std. Deviation	**0.10**
Maximum	**0.86 °**
Minimum	**0.60 °**
Range	**0.26**

Signature Mick Elmslie

SURVEYOR / PARTY CHIEF

APPENDIX D
CLIENT SUPPLIED INFORMATION

1. Well Summary

Well name		Maclean-1
Type of Well		Vertical Exploration
Permit		Vic/P47
Operator		Bass Strait Oil Company Ltd
Interests		BAS 40% Moby Oil & Gas 35% Eagle Bay Resources NL 25%
Objectives	***Primary***	Kingfish Formation
	Secondary	Volador Formation
Seismic Reference		GAP04A Inline 2466 Xline 1255
Geographical Location	***Latitude***	38° 02' 46.442" S
	Longitude	148° 32' 52.989" E
	Northing	5,787,924.15 mN
	Easting	635,833.52 mE
Approximate Elevation (RT)		21.5m
Water Depth		73m (MSL)
General Reference Datum / CM		GDA94 / 147°E
Map Reference		SJ55 1:1,000,000 Melbourne Map Sheet Graticular Block 1783
Surface Tolerance		20m radius
Target Tolerance		50m radius
Rig Heading		±45°
Anticipated Spud Date		October 2005
Proposed Total Depth		771mRT
Estimated Time to Drill		10 days
Drilling Contractor		Diamond Offshore General Company
Rig Type		Semi submersible
Rig Name		"Ocean Patriot"
Attendant Craft	**AHSV 1**	Far Grip
	AHSV 2	Pacific Wrangler
	Helicopter	Bristows - Super Puma from Essendon, Melbourne Victoria.

APPENDIX 7

RIG POSITIONING QA REPORT

(By RPS Hydrosearch)

SUPERVISION REPORT

FOR

OCEAN PATRIOT RIG MOVE

TO

MACLEAN - 1

BY

FUGRO SURVEY Pty Ltd

FOR

BASS STRAIGHT OIL COMPANY LTD

14 OCTOBER TO 17 OCTOBER 2005

RPS Energy
Level 3, 41-43 Ord Street
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Report No. : RPSE 05/064/50

Author : J. E. Rutherford

Approved :

Date : 27/10/2005

CONTENTS

Title
Contents **Page Number**

1. EXECUTIVE SUMMARY 1

2. SPECIFICATIONS 2

3. INTRODUCTION 3

3.1. RESULTS 3
3.2. FINAL POSITION 3

4. GEODETIC PARAMETERS 4

4.1. LOCAL SPHEROID 4
4.2. WGS84 SPHEROID (ITRF2000 EPOCH 2005.50) 4
4.3. PROJECTION PARAMETERS 4
4.4. DATUM TRANSFORMATION PARAMETERS 4
4.5. VERTICAL DATUM AND TIDAL LEVELS 4

5. RIG POSITIONING & NAVIGATION SYSTEMS 5

5.1.1. System Description 5
5.1.2. System Calibration 5

5.2. GYRO COMPASS 5
5.2.1. System Description 5
5.2.2. Gyro Calibration 5
5.2.3. Gyro Performance 6

5.3. TUG TRACKING 6
5.3.1. System Description 6
5.3.2. System Performance 6

5.4. SURVEY OPERATIONS 6
5.5. KEY PERSONNEL 6
5.6. QC SUPERVISION 6

6. PERFORMANCE APPRAISAL 8

6.1. SURVEY CONTRACTOR PERFORMANCE 8
6.2. GYRO COMPASS 8
6.3. POSITIONING 8
6.4. BARGE MANAGEMENT 8

7. CONCLUSIONS AND RECOMMENDATIONS 9

APPENDICES

APPENDIX 1 **Vessel Offset Diagram**

APPENDIX 2 **Diary of Events**

APPENDIX 3 **Configuration**

APPENDIX 4 **Final Fix**

APPENDIX 5 **Geodesy and Coordinate Check**

TABLES

TABLE 1 **DGPS Verification**

TABLE 2 **Comparison of DGPS Navigation Systems**

1. EXECUTIVE SUMMARY

The Fugro survey team mobilised to the Semi-submersible Drilling Rig *Ocean Patriot* on the 11th and 13th October 2005 for the move from Gilbert-1A well to the Maclean-1 well. Rig survey equipment was set to work on arrival. The Positioning Representative arrived at the rig on 14th October.

Anchor recovery operations commenced at 08:10hrs on 13th October 2005.

The tow commenced at 14:00hrs on 14th October, with the M/V *Far Grip* towing on the forward bridle.

The total transit was approximately 20nm designed to avoid crossing existing pipelines and structures.

At the Maclean-1 location, anchoring operations commenced at 21:08hrs on 14th October and continued until 06:22hrs on 15th October. The final fix was completed at 19:08hrs on 16th October, after the 30" conductor was set.

The rig was positioned 4.1metres at 336.7° from the planned location.

All survey operations were carried out safely.

2. SPECIFICATIONS

Client:	Bass Straight Oil Company Ltd (BSOC)
Project Type:	Rig Move
Well Location:	Maclean-1
	Latitude 38º 02’ 46.442”S Longitude 148º 32’ 52.989”E
Permit:	Vic/P-47
Location:	Bass Strait, Victoria
Type of Survey:	Rig Positioning Services
Survey Contractor:	Fugro Survey Pty Ltd
Rig:	*Ocean Patriot* (Semi-submersible)
Anchor Handlers	M/V *Pacific Wrangler,* M/V *Far Grip*
Period of services:	14th October 2005 to 17th October 2005
Surface Positioning:	Starfix HP Differential GPS
Navigation System:	StarfixSeis Navigation system and Gyro
Tug Tracking:	Wombat
Safety:	Acceptable performance during survey operations
Time Zone:	Eastern Standard Time (UTC+10hrs)

3. INTRODUCTION

3.1. RESULTS

The rig move was carried out in accordance with procedures and within specifications.

Anchor recovery operations commenced at 22:46hrs on 13th October. The last anchor was racked at 13:55hrs on 14th October with the tow to Maclean-1 commencing immediately.

The M/V *Far Grip (Far Grip)* towed the rig on the forward tow bridle with the rig fully ballasted up to towing draft. The total towing distance was approximately 20nm.

Upon arrival at the Maclean-1 location, the first anchor, #4, was deployed on the seabed at 21:08hrs on 14th October. The *Far Grip* remained on the tow bridle while the M/V *Pacific Wrangler (Wrangler)* deployed Anchors #8, #5 and #1. The *Far Grip* then released the tow bridle and ran anchors #7 and #6. The *Wrangler* ran anchors #3 and #2. The final anchor #6 was placed on the bottom at 04:54hrs on 15th October 2005.

At 05:00hrs on 15th October the *Ocean Patriot (Patriot)* began to ballast down to drilling draft. At 06:14hrs the rig then started to manoeuvre across to the Maclean-1 location. At 06:22hrs, the rig was deemed within position tolerance at the Maclean-1 location.

After the 30" conductor was cemented in place a final fix was observed. The final position fix was determined from an average of 60 minutes of DGPS data.

The BSOC Survey QC Representatives and the Fugro Survey Team were demobilised to Essendon Airport on the 17th October.

3.2. FINAL POSITION

The following final surface position was calculated from DGPS observations onboard the rig between 18:10hrs and 19:10hrs on the 16th October 2005, after the 30" conductor had been set in place.

Antenna offsets and corrected rig heading were applied to the DGPS antenna position to obtain the drill stem (survey datum) coordinates, as follows:

Datum:	GDA 94		
Latitude:	-38°	02'	46.32" South
Longitude:	148°	32'	52.92" East

Projection:	MGA CM = 147° East
Easting:	635 831.9 mE
Northing:	5 787 927.9 mN
Rig Heading:	248.4° (True)

The final drill stem position was 4.1metres on a bearing of 336.7° (True) from the planned location, and was within an acceptable positioning tolerance.

Assumed depth at location (from project procedures) was 70m LAT. Observed depth was 60m.

4. GEODETIC PARAMETERS

4.1. LOCAL SPHEROID

The local datum used as the reference datum for all navigation and positioning on this project is defined by the following parameters;

Datum:	Geocentric Datum of Australia1994 (GDA 94)
Spheroid:	Geodetic Reference System 1980 (GRS 80) Ellipsoid
Inverse Flattening:	298.257222101
Semi-major Axis:	6,378,137.00

4.2. WGS84 SPHEROID (ITRF2000 EPOCH 2005.50)

The DGPS uses the WGS84 Datum the definition of which is defined as follows;

Datum:	World Geodetic System 1984
Spheroid:	WGS 84
Inverse Flattening (1/f):	298.257223563
Semi-major Axis:	6,378,137.0m

4.3. PROJECTION PARAMETERS

The following projection was used for grid coordinates:

Projection:	Map Grid of Australian 1994 (MGA94)
Type:	Universal Transverse Mercator (UTM)
False Easting:	500,000m
False Northing:	10,000,000m
Origin of Latitude:	0°
Central Meridian:	147° East (Zone 55)
Scale factor at CM:	0.9996

4.4. DATUM TRANSFORMATION PARAMETERS

The following transformation was applied to the DGPS WGS84 (ITRF2000 Epoch 2005.50) position to compute MGA94 coordinates.

DX	=	-0.0156m
DY	=	-0.0349m
DZ	=	-0.0513m
rx	=	0.01445”
ry	=	0.01305”
rz	=	0.01504”
Scale	=	0.00498 ppm

4.5. VERTICAL DATUM AND TIDAL LEVELS

The tidal datum used for this location was LAT. No tide or current predictions were provided.

5. RIG POSITIONING & NAVIGATION SYSTEMS

5.1.1. System Description

The surface positioning system used throughout this project was Differential Global Positioning System (DGPS). Fugro operates two satellite based differential broadcast systems both of which were installed on the rig. The primary differential system was the Fugro Starfix MRDGPS satellite differential system.

Differential corrections and raw GPS signals were interfaced into the Fugro DGPS QC system - MRDGPS. Network-adjusted solutions were configured using corrections via either of the differential communications systems. The Network-adjusted solution used differential data from Melbourne (Id 385), Bathurst (Id 336) and Cobar (Id 316).

In addition to the Network MRDGPS position, a second Trimble was installed with corrections from Melbourne directly injected into the GPS unit.

The navigation software, Starfix Seis version 6.1, was installed and operated on the same PC as the MRDGPS PC. Starfix Seis is the hub of survey activities and provides on-line navigation of the rig, track guidance, anchor assignment and AHV navigation management. Fugro run a dual graphics card in the Starfix computer.

5.1.2. System Calibration

Fugro observed a check position fix whilst the rig was still anchored at the Gilbert-1A well site. The check position fix comprised logging of 30 minutes of observed DGPS data.

The following table indicates the difference between the Gilbert-1A published position and the check fix results for each of the Primary and Secondary DGPS systems:

	Easting diff (m)	Northing diff (m)
Primary DGPS	-0.63	-0.28
Secondary DGPS	-1.46	-0.38

Table 1 - Summary of DGPS Verification Fix (GDA 94)

Check measurements of the antenna offsets from the centre of the moonpool were taken and the results confirmed the offsets in use.

5.2. GYRO COMPASS

5.2.1. System Description

An SG Brown SGB 1000M compass situated in the wheelhouse was interfaced to the Starfix Seis navigation computer. A backup gyro was onboard.

5.2.2. Gyro Calibration

Two gyro calibrations were carried out before anchor recovery operations were completed. The results were consistent and tabulated below. The results from the latter observation were used due to the fact that a longer sight along the rig centreline was used.

Observation	C-O
13 October 2005	0.7°

The gyro correction was set at 0.7° for the duration of the rig move.

5.2.3. Gyro Performance

The gyro performed well for the duration of the rig move.

5.3. TUG TRACKING

5.3.1. System Description

The Fugro proprietary system 'Wombat' was utilised for tracking of the Anchor Handling Vessels (AHV). The system consists of navigation (DGPS) and radio modem, with associated computer and 'Wombat 'software on the AHV.

5.3.2. System Performance

All systems performed without incident.

5.4. SURVEY OPERATIONS

The Fugro Survey Team was mobilised to the rig in two stages. On the 11th October the Engineer was sent to the rig and on the 13th October, the Surveyor was sent to the rig. The BSOC QA/QC Surveyor was mobilised to the rig on the 14th October. All personnel transferred via a Helicopter from Essendon Airport.

Equipment checks and review of the rig move procedures were completed soon after joining the *Ocean Patriot*.

The survey team was able to maintain 24-hr coverage of positioning for rig move operations.

Several independent quality control checks were conducted throughout the rig move. The checks ensured that all positioning of the rig was correct and as per the contractual procedures.

5.5. KEY PERSONNEL

The following survey personnel were involved with the project;

Name	On Hire	Title
John Rutherford	14 Oct – 17 Oct 2005	RPS QC Surveyor
Mick Elmslie	13 Oct – 17 Oct 2005	Fugro Surveyor
Carey Simonson	11 Oct – 17 Oct 2005	Fugro Engineer

5.6. QC SUPERVISION

Survey QC of the project involved working with the Fugro surveyors and the Diamond Offshore personnel to ensure that all procedures and safety specifications were met during the rig move. This included the following independent checks were carried out for this project:

- Intended Maclen-1 location check
- Checks and issue of co-ordinates
- Rig Move Procedure checks and verification
- Intended route waypoints and approach lines

- Confirmation of correct geodesy
- DGPS system set-up
- Vessel and Rig Shape files
- Anchor fairlead offset check
- Antenna offset checks and confirmation
- Equipment configuration
- Intended anchor locations
- Catenary calculations and checks
- Gyro calibration computation check
- Final location verification and issue of co-ordinates to BSOC Representative

6. PERFORMANCE APPRAISAL

6.1. SURVEY CONTRACTOR PERFORMANCE

The Fugro personnel performed the rig move competently and in accordance with client requirements. All requests for information and assistance were handled promptly.

All operations were carried out safely and met the BSOC safety requirements.

6.2. GYRO COMPASS

A gyro calibration was carried out before anchor recovery operations commenced. The resultant C-O was +0.7°.

6.3. POSITIONING

The DGPS system performed well throughout the rig move and no issues were raised with regard to the performance of the DGPS or the StarfixSeis navigation software system.

6.4. BARGE MANAGEMENT

The Barge Management System (BMS) 'Wombat' was used for tug tracking. The system performed well.

7. CONCLUSIONS AND RECOMMENDATIONS

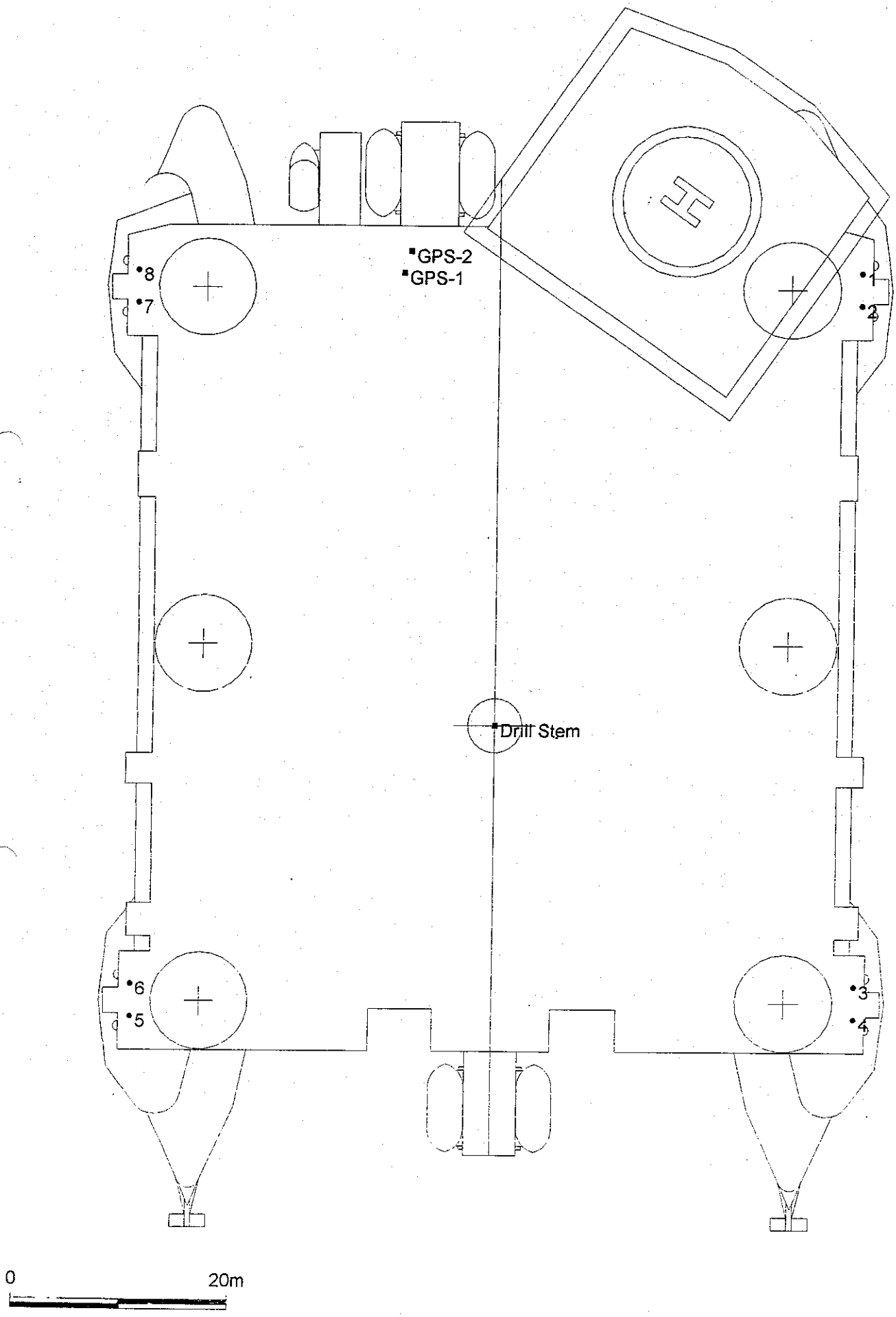
The rig move was completed satisfactorily. All personnel performed their duties in a professional manner.

All necessary safety meetings and drills were attended.

APPENDICES

APPENDIX 1
Ocean Patriot Offset Diagram

Ocean Patriot



APPENIDX 2
Diary Of Events

13 October2005

16:50	QF 631 from Brisbane to Melbourne
19:10	Arrived Melbourne. Proceeded to hotel. O'night Melbourne.

14 October 2005

08:30	Picked up from Hotel for x-fer to Essendon Airport
10:00	Helicopter from Essendon airport to Rig
11:20	Arrived rig. Anchor recovery well underway. Confirmed location coordinates for Maclean-1 location with Fugro surveyors and BSOC Company Rep. Confirmed anchor positions for new location. Confirmed geodesy input correct in navigation computer.
14:00	Rig under tow to Maclean-1location.
21:07	Anchor #4 on bottom.
24:00	Running anchors

15 October 2005

00:00	Running anchors
01:25	Anchor #1 on bottom. All primary anchors run
04:54	Anchor #6 on bottom. All anchors run.
05:00	Rig started to ballast down to drilling draft.
05:10	Started anchor pre-tensioning.
06:13	Pre-tensioning completed
06:14	Rig slides across to location
06:22	Rig on location within position tolerance. Commenced logging for preliminary position fix.
06:33	Completed logging for preliminary position fix. E 635 833.5 N 5 787 924.2 Rig Heading 250.2ºT
07:15	Computed drillstem position from GPS1 antenna position and offsets E 635 833.2 N 5 787 925.2

16 October 2005

00:00	On location. Drilling crew preparing for well.
18:09	Started logging final fix
19:09	Completed logging final fix
19:	Report on Final Rig Position to Company Representative.

17 October 2005

09:30	Helicopter from Rig to Essendon Airport
13:05	QF 618 Melbourne to Brisbane

APPENDIX 3
Configuration

14/10/2005 10:00:01 LOC
*** FUGRO SURVEY STARFIX.SEIS ***

```
Header : Project Name                          :   Ocean Patriot Rig Move
         Project Number                        :   P0367
         Project Description                   :   Move from Gilbert-1 to
         Maclean-1
         Project Location                      :   Maclean-1
         Client                                :   Bass Strait Oil Company
         Client Representative                 :   P. Dane
         Client Reference Number               :
         Geophysical Contractor                :   Fugro
         Positioning Contractor                :   Fugro
         Positioning Processing Contractor:    Fugro
         Setup By                              :   ME/CS
         On                                    :   13/10/2005 21:53:57 LOC
         Time Source                           :   9 GPS Raw Data Trimble
         Time Offset                           :   10:00 (Using LOC)
         Vessel                                :   Ocean Patriot

Files    Runline       :
C:\Fugro_Projects\P0367\SeisFile\Runline\RunIn.srn
         Centreline    :
         C:\Fugro_Projects\P0367\SeisFile\Centreline\P0367.scl
         Database      :
         C:\Fugro_Projects\P0342\SeisFile\Database\P0342_Structures_esso.sd
         b
         CAD           :
         C:\Fugro_Projects\P0342\Dgn\figure\procedure\land_cm147.dgn
         Waypoint      :
         C:\Fugro_Projects\P0367\SeisFile\Waypoint\P0367.swy

Logging: Directory     :   C:\Fugro_Projects\P0367\Logging\NonSession\SEIS\

Fixing : Mode          :   Time
         Start Mode    :   Manual
         Stop Mode     :   Manual
         Fix Devices   :
           Auto-Fix    :   SEIS
           Manual      :   SEIS
           External    :   (None)
           Offset      :   (None)
           MOB         :   (None)
         Fix Interval  :     5.000s
         Reset at SOL  :   No
         Next Fix No.  :      803
         Fix Increment :        1
         Start FFID    :      803
         Start Man. Fix:        1
         Early Start   :      10s
         Logging Start :       5s

Datum 1: Datum         :  GDA94 (Australia-ITRF-2005.50)
         Spheroid      :  GRS80
         SemiMajor Axis:  6378137.000
         1/Flattening  :  298.2572221010
         Eccentricity^2:  0.006694380022901

         Projection    :  Transverse Mercator (UTM)
         Grid Name     :  MGA94
         Lat. Origin   :    0d00'00.0000"N
         Lon. Origin   :  147d00'00.0000"E
         False East    :  -  500000.000m
         False North   :  10000000.000m
         Scale Factor  :  0.9996
         Convergence   :  Australia/New Zealand

Datum 2: Datum         :  WGS 84
```

```
          Spheroid       :  WGS 84
          SemiMajor Axis:  6378137.000
          1/Flattening   :  298.2572235630
          Eccentricity^2:  0.006694379990141

Datum2>1:Parameters      :  From WGS84 to GDA94 (Australia-ITRF-2005.50)
          DX             :    -0.0160m          RX             :      0.0145"
          DY             :    -0.0350m          RY             :      0.0131"
          DZ             :    -0.0510m          RZ             :      0.0150"
          D Scale        :     0.0050ppm        Rot Convention:   +RZ=-
          RLongitude

Sundry : Vertical Datum:
          Ell. Sep.      :     0.0000m
          Distances      :   Spheroidal
          Bearings       :   True
          Units          :  metres
          Conversion     :     1.0000000000

Main Vessel              :  Ocean Patriot
                         :  C:\PROGRAM
                        FILES\FUGRO\6.1\SHARED\DATA\VESSEL_SHAPES\OCEAN
                        PATRIOT.SVS

Nav. 1 : System          :  MRDGPS     (In Use)
          Type           :  Lat - Long
          Priority       :     1
          Time-out       :     5.0s
          Offset Name    :  GPS_1
          X Offset       :    -8.86m
          Y Offset       :    41.86m
          Ant. Height    :    27.00m
          Filter         :  1
Nav. 2 : System          :  Direct Injection
          Type           :  Lat - Long
          Priority       :     2
          Time-out       :     5.0s
          Offset Name    :  GPS_2
          X Offset       :    -8.24m
          Y Offset       :    43.86m
          Ant. Height    :    27.00m
Nav. 3 : System          :  Trimble
          Type           :  Lat - Long
          Priority       :     3
          Time-out       :     5.0s
          Offset Name    :  GPS_1
          X Offset       :    -8.86m
          Y Offset       :    41.86m
          Ant. Height    :    27.00m
Dead Reckoning: No   Timeout:  30.0s

Gyro 1 : System          :  SGBrown     (In Use)
          Priority       :     1
          Time-out       :     3.0s
          Offset Name    :  CRP
          X Offset       :     0.00m
          Y Offset       :     0.00m
          Z Offset       :     0.00m
          Correction     :     0.70 Degrees

Offsets: Name                      X         Y         Z
          GPS_1                   -8.86     41.86     27.00
          GPS_2                   -8.24     43.86     27.00
          Drill Stem               0.00      0.00      0.00

Fairlead:Name                      X         Y         Z
          1                       33.50     42.00      0.00
          2                       33.50     39.00      0.00
```

3	33.50	-24.00	0.00
4	33.50	-27.00	0.00
5	-33.50	-27.00	0.00
6	-33.50	-24.00	0.00
7	-33.50	39.00	0.00
8	-33.50	42.00	0.00

Secondary Vessel 1 : FAR GRIP
: C:\PROGRAM FILES\FUGRO\6.1\SHARED\DATA\VESSEL_SHAPES\FAR GRIP.SVS

Nav. 1 : System : FAR GRIP (In Use)
Type : Lat - Long
Priority : 1
Time-out : 15.0s
Offset Name : CRP
X Offset : 0.00m
Y Offset : 0.00m
Ant. Height : 0.00m
Dead Reckoning: No Timeout: 30.0s

Gyro 1 : System : FAR GRIP (In Use)
Priority : 1
Time-out : 15.0s
Offset Name : CRP
X Offset : 0.00m
Y Offset : 0.00m
Z Offset : 0.00m
Correction : 0.00 Degrees

Offsets: Name	X	Y	Z
GPS	0.00	0.00	0.00
Stern	-0.40	-46.10	0.00

Secondary Vessel 2 : WRANGLER
: C:\PROGRAM FILES\FUGRO\6.1\SHARED\DATA\VESSEL_SHAPES\WRANGLER.SVS

Nav. 1 : System : WRANGLER (In Use)
Type : Lat - Long
Priority : 1
Time-out : 15.0s
Offset Name : CRP
X Offset : 0.00m
Y Offset : 0.00m
Ant. Height : 0.00m
Dead Reckoning: No Timeout: 30.0s

Gyro 1 : System : WRANGLER (In Use)
Priority : 1
Time-out : 15.0s
Offset Name : CRP
X Offset : 0.00m
Y Offset : 0.00m
Z Offset : 0.00m
Correction : 0.00 Degrees

Offsets: Name	X	Y	Z
GPS	0.00	0.00	0.00
Stern	-2.00	-58.40	0.00

O/Ts : Steered Point: O/T 0
Shot : O/T 0

O/T 0 PR CRP Flt: 1 Pos Sys: Datum In-Use

O/T	1		FAR GRIP	Flt:	Pos Sys: Datum In-Use
O/T	2		WRANGLER	Flt:	Pos Sys: Datum In-Use
O/T	3	PR	MRDGPS Datum	Flt:	Pos Sys: MRDGPS Datum
O/T	4	PR	Direct Injection	Flt:	Pos Sys: Direct Injection Datum
O/T	5	PR	GPS_1	Flt:	Fxd Off: GPS_1
O/T	6	PR	Stern	Flt:	Fxd Off: Stern
O/T	7	PR	FL1	Flt:	Frlead : 1
O/T	8	PR	FL2	Flt:	Frlead : 2
O/T	9	PR	FL3	Flt:	Frlead : 3
O/T	10	PR	FL4	Flt:	Frlead : 4
O/T	11	PR	FL5	Flt:	Frlead : 5
O/T	12	PR	FL6	Flt:	Frlead : 6
O/T	13	PR	FL7	Flt:	Frlead : 7
O/T	14	PR	FL8	Flt:	Frlead : 8
O/T	15	PR	Far Grip Stern	Flt:	Fxd Off: Stern

APPENIDX 4
Final Fix

Attention : **Mr Peter Dane**

Company : **Bass Straight Oil Company Ltd.**

cc :

Date : **Sunday, October 16, 2005**

Subject : **Maclean-1 Well Location Co-ordinates**

Please find detailed below the Maclean-1 Location Co-ordinates for the centre of the moonpool of the Ocean Patriot determined from one hour of logging of the primary DGPS system on board between 18:09hrs and 19:09hrs on the 16th October 2005.

The rig moved onto this location at 06:22hrs 15th October 2005 and DGPS logging of the final rig position was carried out following completion of the cementing of the 30" conductor.

Maclean-1 Location

Intended Location (from Drilling Program)		**Final Actual (DGPS) Location**	
Ellipsoid	GDA94	**Ellipsoid**	GDA94
Latitude	38° 02' 46.44" S	**Latitude**	38° 02' 46.32" S
Longitude	148° 32' 52.99" E	**Longitude**	148° 32' 52.92" E
Projection	MGA94	**Projection**	MGA94
Easting	635 833.52	**Easting**	635 831.9
Northing	5 787 924.15	**Northing**	5 787 927.9
Zone	55	**Zone**	55
Central Meridian	147° E	**Central Meridian**	147° E
Rig Heading	250° True	**Rig Heading**	248.4° True
Position Tolerance	±20m		

The Actual Location is 4.1 metres on True Bearing of 336.7º **FROM** Maclean-1 Intended Well Location.

Regards,

John Rutherford
RPS Representative QC Surveyor

Energy Domain Resources Pty Ltd (ACN: 072 504 299) trading as RPS Energy
Level 3, 41-43 Ord Street, West Perth, WA 6005, Australia
PO Box 528, West Perth, WA 6872. Australia
T: +61 (8) 9226 0400 F: +61 (8) 9226 0511 E: rpsenergy@rpsplc.com.au W: www.rpsplc.com.au

APPENDIX 5
Geodesy and Coordinate Check

RIG POSITIONING
GEODESY AND COORDINATE CHECK LIST

Client :	**Bass Strait Oil Company**	**Job Number :**	**P0367**
Rig :	**Ocean Patriot**	**Date:**	**October 13, 2005**
Project :	**Rig Move to Maclean-1, Bass Strait**		

1. CONFIRMATION OF PROPOSED RIG COORDINATES and HEADING.

Well Name	**Maclean-1**		Ensure agreement with Client onsite prior to any positioning
Well Location – Latitude(ϕ)	-038° 02' 46.44"	S	Operations. OK (?) Y / N.
Well Location – Longitude(λ)	148° 32' 52.99"	E	
Rig Heading (True)	250° T		

2. GEODETIC PARAMETERS (WGS84 to LOCAL DATUM)

DATUM:	Dx	-0.01600 m	Ensure agreement with Client onsite prior to positioning operations.
GRS80	Dy	-0.03500 m	OK (?) Y / N.
	Dz	-0.05100 m	
	Rx	0.01450 "	
Projection:	Ry	0.01310 "	
	Rz	0.01500 "	
Transverse Mercator (UTM)	Ds	0.00500 ppm	
UTM Zone		55	
Central Meridian		147° East	

3. CHECK TRANSFORMATION OF SITE COORDINATES.

Well Location – Easting	635833.5	Ensure agreement with Starfix.Seis. OK (?) Y / N
Well Location – Northing	5787924.2	If not, CHECK and RECALC.
Convergence at Location	0.95 °	
Rig Heading (° Grid)	250.95°	

4. MEAS. ANT. OFFSETS from ANT. TO D/STEM (Rel. to Datum) (Measure two (2) separate directions, verifying closure.)	**NAV #1 SYSTEM**	**NAV #2 SYSTEM**
Delta X(m)	-8.86 m	-8.24 m
Delta Y(m)	41.86 m	43.86 m
Angle between Rig Centreline and Antenna(s) (Grid)	348.05°	349.4°
Distance between Drill Stem and Antenna (m)	42.79 m	44.63 m

5. MANUAL COORDINATE VERIFICATION FOR ANTENNAS		**NAV #1 SYSTEM**	**NAV #2 SYSTEM**
Proposed Drill Stem Position	Easting	635833.5	635833.5
	Northing	5787924.2	5787924.2
Drill Stem to Antenna	Proposed Hdg (G)	250.954°	250.954°
Brg (G) = Prop. Hdg. + Angle btwn centreline and antenna		239.003°	240.314°
	Distance (m)	42.79 m	44.63 m
Calculated Antenna	Easting	635796.84	635794.75
Coordinates (Local Datum)	Northing	5787902.12	5787902.05
	Latitude (ϕ)	-038° 02' 47.18" S	-038° 02' 47.18" S
	Longitude (λ)	148° 32' 51.50" E	148° 32' 51.41" E
Calculated Proposed Antenna Coords (WGS 84)	Latitude (ϕ)	-038° 02' 47.16" S	-038° 02' 47.16" S
	Longitude (λ)	148° 32' 51.51" E	148° 32' 51.42" E

6. POST RIG MOVE - OBSERVED ANTENNA COORD

Observed GPS Receiver Antenna Position in	Latitude (ϕ)	-38 ° 02'	S	-38 ° 02'	S
WGS84.	Longitude (λ)	148 ° 32'	E	148 ° 32'	E

Ensure agreement between calculated and observed coordinates. If **NO**, check calcs., antenna offsets. OK(?) Y / N

Surveyor : _____ Client Rep : _____ Date : _____

APPENDIX 8

CASING AND CEMENTING REPORTS

(By Bass Strait Oil Company Ltd)

Bass Strait Oil Company

CASING RECORD

Well Name:	Maclean - 1	RIG:	Ocean Patriot	PERMIT:	VIC P/47	DATE:	16-Oct-05
HOLE SIZE (mm):	914	CASING (mm):	762			RT-s'bed (m):	78.50
TD (m):	112	Shoe @ (m):	110.9			RT-MLS(m):	0.00
TVD (m)	112					WellHead (m):	75.90

JTS	SIZE mm	Weight Kg/m	Grade	Conn	Burst (MPa)	Collapse (MPa)	Tensile Yield (dN)
3	762	725	X52	SF-60	0.0	10.9	2107.0
	762	0	0	New Vam	0.0	10.9	2107.0

MILL CERTIFICATE Nos./PO's

DESCRIPTION	Length (m)	Bottom (mRT)	Top (mRT)
20" x 30" Shoe Joint	11.06	110.90	99.84
Intermediate Joint	11.94	99.84	87.90
30" Lower HAC	7.33	87.90	80.57
30" Upper HAC	4.66	80.57	75.91
Landing point	0.00	75.91	75.91
RT to wellhead	0.44	75.91	75.47
Drill pipe	75.47	75.47	0.00
damaged jts			
0			
0			
0			
0			
Total length	110.90		
Run time (hrs): 3	Running speed min/joint:		36.0

CENTRALISER DETAILS:	Bow	Double bow	Bow	Turbolisers	Other
Number installed: Removed from 2nd run					
Interval (m):					

Pip Tag (mRT):	MLS Depth: 0.00	MLS length (m):	0.00

Total Casing on Board:	3	Casing Damage Details:	-
Total Casing Run in Hole:	3		
Total Casing Leftover:			

Pup Joints:		Number Run:	0	No. returned:	0

Equipment used:	Double 30" elevators		
Service Company:	Weatherford / Dril-Quip	No. of Personnel:	1

Comments

Casing pre hung off in moonpool. No hole problems during running conductor.

Supervisors:	P Dane / S Rodda	

Bass Strait Oil Company

WELL	Maclean - 1	PERMIT	VIC P/47	DATE	16/10/2005
Casing (mm)	762	Weight (kg/m)	725	Grade	X52 &
Shoe @ (m)	110.90	Jnts on Rig	150	Stick up (m)	-

Joint	Length	Joint Top	Joint Bot	Joint	Length	Joint Top	Joint Bot
20" x 30" Shoe Joint	11.06	99.84	110.90				
Intermediate Joint	11.94	87.90	99.84				
30" Lower HAC	7.33	80.57	87.90				
30" WHH (Upper HAC)	4.66	75.91	80.57				
Landing point	0.00	75.91	75.91				
Running Tool	0.44	75.47	75.91				
Drillpipe	75.47	0.00	75.47				

Casing, Running and Cementing Report

Imperial

Wellname:	Maclean-1
Company:	Bass Strait Oil Company
Date:	16-Oct-05
Prepared By:	Peter Dane & Simon Rodda
Revision:	1

Bass Strait Oil Company Represe	Peter Dane & Simon Rodda	**Drilling Contractor & Rig**	Ocean Patriot
Bass Strait Oil Company Witness		**Cement Company & Service Rep.**	Dowell Schlumberger

Basic Data			**Mud Data**				**Hole & Prev Casing Data**		
Casing Size	30	in	**Type**	PHG			**Casing Size**	n/a	in
Hole Size	36	in	**Weight**	8.7 ppg	1.04	SG	**Hole OD**	36	in
Hole Caliperd	no		**Preflush**				**M. Depth**	112	m
Caliper Tool used	n/a		**Type**	Sea Water			**Casing ID**	n/a	in
Est BHT degree.C			**Weight**	8.6 ppg	1.03	SG	**Shoe Depth**	0	m

Cement Volumes				**Displacement**			**Pumping Pressures**		
Gauge Annular Vol.		59	bbl	**Calc. Disp**	28.9	bbl	**Max. Pumping Press.**	0	psi
Excess	Lead N/A	Tail	200%	**Cmt Unit Disp**	28	bbl	**Sheared Top Plug with**	0	psi
Shoe Track		4.25	bbl	**Rig Displacement**	0.9	bbl	**Bumped Plug with**	0	psi
Rat Hole		4.54	bbl	**Calc Strokes**	9	str	**Tested Casing with**	0	psi
Total Volume		195	bbl	**Liner size / bbl/stroke**	**6"** 0.0982				

Cement Data

Lead Slurry			**Tail Slurry**				**Displacement Data**		
Cement Type			**Cement**		G		**Mix Rate Lead / Tail**	**4.20**	bpm
Slurry Volume		bbl	**Slurry Volume**		180	bbl			
Mix Water		bbl	**Mix Water**	Seawater	107	bbl	**Displacement Rate**	**6.00**	bpm
D110		gal/sx	**D193**		0.00	gal/sx			
D075		gal/sx	**D145A**		0.00	gal/sx	**Plug Bumped (Y/N)**	**N**	
D047		gal/sx	**D047**		0.01	gal/sx			
Dry Additive		BWOC	**Dry Additive**	$CaCl_2$	1%	BWOC	**Disp. Under Calc.**		bbl
Plan Wt	ppg	SG	**Plan Wt (ppg)**	15.8 ppg	1.90	SG			
Actual Wt	ppg	SG	**Actual Wt (ppg)**	15.8 ppg	1.90	SG	**Final Circ Press**	**170**	psi
Yield		cuft/sk	**Yield**		1.19	cuft/sk			
Total # sx cement used		sx	**Total # sx cement used**		848	sx	**Disp. by Rig/Cmt Unit**	Cmt Unit	

Spacers			**Centralizers**		**Scratchers**	
Ahead			**Make**	-	**Make**	-
Type/Volume	Seawater	10.00 bbl	**Type**	-	**Type**	-
	S/Water & Dye	10.00 bbl	**Number**	-	**Number**	-
Behind			**Spacing**	-	**Spacing**	-
Type/Volume	Seawater	29.00 bbl	**Comments**	-	**Comments**	-

Casing Data

Total Depth - From RT (metres)	112.00 m	**Water Depth (m LAT)**	57.00 m
Off Bottom (Rat Hole)	1.10 m	**RT-Sea Level**	21.50 m
Casing Shoe depth (mRT)	110.90 m	**Wellhead Stick-up above Mudline**	2.50 m
		RT to Wellhead Datum	76.00 m

Casing String Components

1 x	Shoe Joint	11.06
1 x	Intermediate	11.94
	HAC Lower	7.33
	HAC Upper	4.66
	Running tool	0.44 m
	Landing string	75.47 m
Total string length:		110.90 m
Landing String:		m

Casing Notes

Casing hung off in moonpool prior to spudding

Casing and Cementing Timetable

Operation	Start Time	Pump Pressure (initial psi)	Pump Pressure (Final psi)	Volume (bbl)	Rate (bpm)	Fluid	Comments
	11:15		120.0	10.0	6.00	S/W	
							Test line
			120.0	10.00	6.00	S/W & Dy	
	11:30		137.0	16.00	4.20	Cmt	
	11:35		146.0	35.00	4.00	Cmt	
	11:40		146.0	55.00	4.00	Cmt	
	11:45		150.0	76.00	4.00	Cmt	
	11:50		150.0	86.00	4.60	Cmt	
	11:55		170.0	100.00	4.60	Cmt	
	12:00		170.0	125.00	4.60	Cmt	
	12:05		170.0	158.00	4.50	Cmt	
	12:10		170.0	167.00	4.50	Cmt	
	12:15					Cmt	Finished cementing

Detailed Casing and Cementing Report

Wellname: Maclean 1
Company: Bass Strait Oil Company
Date: 16 Oct '05
Prepared By: Peter Dane & Simon Rodda
Revision: 1

Well Data

RT	21.5 m
Water Depth	57 m
Top Wellhead	76 m
Mudline	78.5 m
Previous Casing Size	in
Previous Casing Shoe	m
Hole Size	36 in
Section TD	112 m

Casing Data

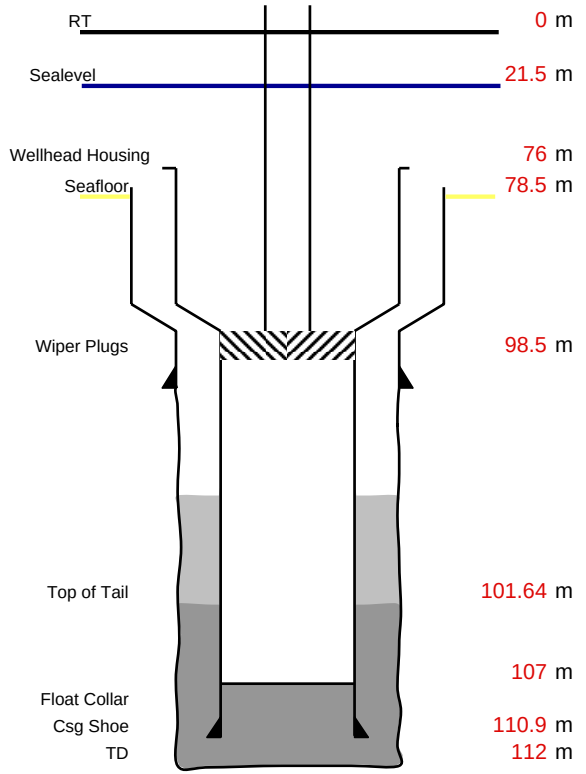
Casing Shoe At	110.9 m
Casing Shoe ID	18.5 in
Float Collar At	107 m
Casing 1 Length	9.26 m
Casing 1 OD	20 in
Casing 1 ID	18.5 in
Casing 2 Length	25.73 m
Casing 2 OD	30 in
Casing 2 ID	28 in

Running String Data

Running String 1 Length	78.5 m
Running String 1 ID	4.26 in
Running String 2 Length	0 m
Running String 2 ID	0 in
Stick-up above RT	0 m
Stinger Length	20 m
Stinger ID	4.26 in

Cement Data

Length of Lead	0 m
Length of Tail	9.26 m
KOP	0 m
Hole angle	0 m



Capacities

	bbls/ft	bbls/m
Running String 1	0.017629299	0.057838203
Running String 2		
Stinger	0.017629299	0.057838203
Casing 1	0.332475228	1.090784729
Casing 2	0.761608704	2.498685836
Casing 1 x OH	0.870409948	2.855640956
Casing 2 x OH	0.384690111	1.262091315
Rathole	1.258985817	4.130480668

Cement Calculations

Lead Slurry

		bbls	ft^3
OH x Casing Annulus			
OH Excess	200%		
	Total		

Tail Slurry

		bbls	ft^3
Float Collar		4.3	23.9
Rathole		4.5	25.5
OH x Casing Annulus		58.9	330.8
OH Excess	200%	126.9	712.6
	Total	194.6	1092.8

Cement Properties

		Input		Volumes		
		Lead	Tail	Lead	Tail	
Yield	ft^3/sk	1.19	1.19		918.3	sks
Mix Water	gal/sk	5.31	5.31		116.1	bbls
D193	gal/sk	-	-		-	gal
D145A	gal/sk	-	-		-	gal
D110	gal/sk	-	-		-	gal
D075	gal/sk	-	-		-	gal
D047	gal/sk	0.01	0.01		9.2	gal
	Total mixwater			######	116.3	bbls

Displacement

	bbls
Surface Lines	3
Running String	4.54
Stinger	1.16
Casing ID 1	5.8466
Casing ID 2	14.317
	28.861

Spacer

Volume of Pre-flush pumped	10 bbls
Volume of Chemical/Fluoroscene Spacer	60 bbls
Volume of water Spacer pumped	45 bbls

Bass Strait Oil Company

CASING RECORD

Well Name:	Maclean - 1	RIG:	Ocean Patriot	PERMIT:	VIC/P47	DATE:	17-Oct-05
HOLE SIZE (mm):	445	CASING (mm):	340			RT-s'bed (m):	78.50
TD (m):	355	Shoe @ (m):	350			RT-MLS(m):	0.00
TVD (m)	355					WellHead (m):	75.90

JTS	SIZE mm	Weight Kg/m	Grade	Conn	Burst (MPa)	Collapse (MPa)	Tensile Yield (t)
17	340	101	L80	BTC	34.6	15.6	692.0

MILL CERTIFICATE Nos./PO's

DESCRIPTION	Length (m)	Bottom (mRT)	Top (mRT)
Shoe Joint A	12.59	350.00	337.41
Inter Joint A	11.63	337.41	325.78
Float collar A	12.51	325.78	313.27
17 x joints - BTC	209.85	313.27	103.42
No X A	12.54	103.42	90.88
18 3/4" Wellhead below	11.03	90.88	79.85
Landing point	0.00	79.85	79.85
18 3/4" Wellhead above	0.79	79.85	79.06
Running Tool	0.77	79.06	78.29
Drillpipe	78.29	78.29	0.00
damaged jts			
0			
0			
0			
0			
Total length	350.00		
Run time (hrs): 7	Running speed min/joint:		18.3

CENTRALISER DETAILS:	Bow	Double bow	Bow	Turbolisers	Other
Number installed:	12				
Interval (m):					

Pip Tag (mRT):	MLS Depth: 0.00	MLS length (m):	0.00

Total Casing on Board:	25	Casing Damage Details:	-
Total Casing Run in Hole:	21		
Total Casing Leftover:	4		

Pup Joints:		Number Run:	0	No. returned:	0

Equipment used:	Weatherford 13 3/8" power tong, 350 Ton side door elevators and FMS & TAM Packer		
Service Company:	Weatherford	No. of Personnel:	2

Comments

No hole problems encountered.

No equipment failures encountered.

Supervisors:	P Dane / S Rodda	

Bass Strait Oil Company

WELL	Maclean - 1	PERMIT	VIC/P47	DATE	17/10/2005
Casing (mm)	340	Weight (kg/m)	101	Grade	L80
Shoe @ (m)	350.00	Jnts on Rig	25	Stick up (m)	-

Joint	Length	Joint Top	Joint Bot
Shoe Joint A	12.59	337.41	350.00
Inter Joint A	11.63	325.78	337.41
Float collar A	12.51	313.27	325.78
Jt 1 (BTC)	12.66	300.61	313.27
Jt 2 (BTC)	12.66	287.95	300.61
Jt 3 (BTC)	12.06	275.89	287.95
Jt 4 (BTC)	12.67	263.22	275.89
Jt 5 (BTC)	11.99	251.23	263.22
Jt 6 (BTC)	12.67	238.56	251.23
Jt 7 (BTC)	11.73	226.83	238.56
Jt 8 (BTC)	12.06	214.77	226.83
Jt 9 (BTC)	12.05	202.72	214.77
Jt 10 (BTC)	12.66	190.06	202.72
Jt 11 (BTC)	12.66	177.40	190.06
Jt 12 (BTC)	11.90	165.50	177.40
Jt 13 (BTC)	12.66	152.84	165.50
Jt 14 (BTC)	12.66	140.18	152.84
Jt 15 (BTC)	12.05	128.13	140.18
Jt 16 (BTC)	12.66	115.47	128.13
Jt 17 (BTC)	12.05	103.42	115.47
No Cross A	12.54	90.88	103.42
18 3/4" wellhead Jt Below	11.03	79.85	90.88
Landing point	0.00	79.85	79.85
18 3/4" Wellhead Jt Above	0.79	79.06	79.85
Running Tool	0.77	78.29	79.06
Drillpipe	78.29	0.00	78.29

Joint	Length	Joint Top	Joint Bot

Run Summary:

	Total	Run	Remain
Joints	**20**	**17**	**3**
Shoe	**1**	**1**	**0**
Inter	**2**	**1**	**1**
Float	**1**	**1**	**0**
NoX	**1**	**1**	**0**
Pups	**0**	**0**	**0**
	25	**21**	**4**

Casing, Running and Cementing Report

Imperial

Wellname:	Maclean 1
Company:	Bass Strait Oil Company
Date:	18-Oct-05
Prepared By:	Peter Dane & Simon Rodda
Revision:	1

Bass Strait Oil Company Represe	Peter Dane & Simon Rodda	**Drilling Contractor & Rig**	Ocean Patriot
Bass Strait Oil Company Witness		**Cement Company & Service Rep.**	Dowell Schlumberger

Basic Data		**Mud Data**				**Hole & Prev Casing Data**		
Casing Size	13 3/8 in	**Type**	PHG			**Casing Size**	30	in
Hole Size	12 2/5 in	**Weight**	8.7 ppg	1.04	SG	**Hole OD**	17.5	in
Hole Calipered	no	**Preflush**				**M. Depth**	112	m
Caliper Tool used	n/a	**Type**	Sea Water			**Casing ID**	28	in
Est BHT degree.C	30 C	**Weight**	8.6 ppg	1.03	SG	**Shoe Depth**	110.9	m

Cement Volumes			**Displacement**			**Pumping Pressures**		
Gauge Annular Vol.	150	bbl	**Calc. Disp**	115.3	bbl	**Max. Pumping Press.**	274	psi
Excess Lead 60%	Tail 60%		**Cmt Unit Disp**	0	bbl	**Sheared Top Plug with**	2300	psi
Shoe Track	11.90	bbl	**Rig Displacement**	115.3	bbl	**Bumped Plug with**	900	psi
Rat Hole	4.88	bbl	**Calc Strokes**	1145	str	**Tested Casing with**	1500	psi
Total Volume	231	bbl	**Liner size / bbl/stroke**	**6"** 0.1012				

Cement Data

Lead Slurry				**Tail Slurry**				**Displacement Data**		
Cement Type		G		**Cement**		G		**Mix Rate Lead / Tail**	**5.00**	bpm
Slurry Volume		130	bbl	**Slurry Volume**		101	bbl			
Mix Water	Seawater	103	bbl	**Mix Water**	Seawater	61	bbl	**Displacement Rate**	**10.00**	bpm
D110		0.00	gal/sx	**D193**		0.00	gal/sx			
D075		0.42	gal/sx	**D145A**		0.00	gal/sx	**Plug Bumped (Y/N)**	**Y**	
D047		0.01	gal/sx	**D047**		0.01	gal/sx			
Dry Additive				**$CaCl_2$**		0%	BWOC	**Disp. Under 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**	**400**	psi
Yield		2.23	cuft/sk	**Yield**		1.19	cuft/sk			
Total # sx cement used		329	sx	**Total # sx cement used**		480	sx	**Disp. by Rig/Cmt Unit**	Rig	

Spacers			**Centralizers**		**Scratchers**	
Ahead			**Make**	**Weatherford**	**Make**	-
Type/Volume	Seawater	20.00 bbl	**Type**	**Bow**	**Type**	-
	Chemical wash	0.00 bbl	**Number**	**3**	**Number**	-
Behind			**Spacing**	**12m**	**Spacing**	-
Type/Volume	Seawater	10.00 bbl	**Comments**	**-**	**Comments**	-

Casing Data

Total Depth - From RT (metres)	355.00 m	**Water Depth (m LAT)**	57.00 m
Off Bottom (Rat Hole)	5.00 m	**RT-Sea Level**	21.50 m
Casing Shoe depth (mRT)	350.00 m	**Wellhead Stick-up above Mudline**	3.50 m
		RT to Wellhead Datum	75.00 m

Casing String Components

1 x Shoe Joint	12.59
1 x Intermediate	11.63
1 x Float	12.51
17 x Joints BTC + NoCross xo	222.36
Wellhead 18 3/4"	11.03 m
1 x R/T	1.56 m
Total string length:	271.68 m
Landing String:	78.50 m

Casing Notes

Casing Job went very well. Used an FMS which was successful.

Casing and Cementing Timetable

Operation	Start Time	Pump Pressure (initial psi)	Pump Pressure (Final psi)	Volume (bbl)	Rate (bpm)	Fluid	Comments
Pump 10bbls and P/Test lines	22:52	91.0	2,000.0	10.0	4.58	S/W	
Pump 10bbls S/W	22:55	82.0	2,300.0	10.00	4.50	S/W	Shear plug with 2300psi
Drop bottom dart	23:05			10.00	4.85	CMT	
Mix lead	23:10			20.00	6.60	CMT	
	23:20	152.0		40.00	4.10	CMT	
	23:30	178.0		60.00	5.40	CMT	
	23:35	187.0		80.00	5.40	CMT	
	23:40	169.0		100.00	5.40	CMT	
Mix tail	23:44	178.0		120.00	5.50	CMT	
	23:46	183.0		130.00	5.50	CMT	
	23:51	215.0		158.00	4.50	CMT	
	23:55	247.0		170.00	5.10	CMT	
	23:59	238.0		190.00	5.10	CMT	
	0:02	249.0		210.00	5.10	CMT	
Drop top dart with 10 bbls S/W	0:06	247.0		231.00	5.20	CMT	Shear plug with 2400psi
Finish	0:14	141.0		10.00		S/W	Bump plug

Detailed Casing and Cementing Report

Wellname:	Maclean-1
Company:	Bass Strait Oil Company
Date:	18 Oct '05
Prepared By:	Peter Dane & Simon Rodda
Revision:	1

Well Data

RT	21.5	m
Water Depth	57	m
Top Wellhead	75	m
Mudline	78.5	m
Previous Casing Size	30	in
Previous Casing Shoe	110.9	m
Hole Size	17.5	in
Section TD	355	m
Previous TOC	101	m

Casing Data

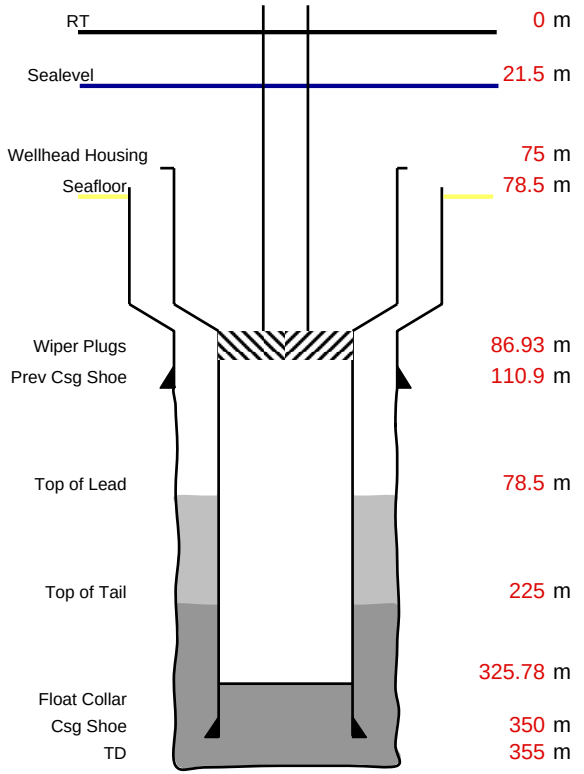
Casing Shoe At	350	m
Casing Shoe ID	12.415	in
Float Collar At	325.78	m
Casing 1 Length	249	m
Casing 1 OD	13.375	in
Casing 1 ID	12.415	in
Casing 2 Length		m
Casing 2 OD		in
Casing 2 ID		in

Running String Data

Running String 1 Length	86.93	m
Running String 1 ID	4.26	in
Running String 2 Length	0	m
Running String 2 ID	0	in
Stick-up above RT	6	m
Stinger Length	0	m
Stinger ID	4.26	in

Cement Data

Length of Lead	146.5	m
Length of Tail	125	m
KOP	0	m
Hole angle	0	deg



Capacities

	bbls/ft	bbls/m
Running String 1	0.017629299	0.057838203
Running String 2		
Stinger		
Casing 1	0.149730158	0.491234703
Casing 2		
Casing 1 x OH	0.12372195	0.405906973
Casing 2 x OH		
Rathole	0.297503400	0.976049155

Cement Calculations

Lead Slurry

		bbls	ft^3
OH x Casing Annulus		99.5	558.7
OH Excess	60%	30.2	169.6
	Total	129.7	728.3

Tail Slurry

		bbls	ft^3
Float Collar		11.9	66.8
Rathole		4.9	27.4
OH x Casing Annulus		50.7	284.9
OH Excess	60%	33.4	187.4
	Total	100.9	566.4

Cement Properties

		Input		Volumes		
		Lead	Tail	Lead	Tail	
Yield	ft^3/sk	2.23	1.19	326.6	476.0	sks
Mix Water	gal/sk	12.72	5.31	98.9	60.2	bbls
D193	gal/sk	-	-	-	-	gal
D145A	gal/sk	-	-	-	-	gal
D110	gal/sk	-	-	-	-	gal
D075	gal/sk	0.42	-	137.2	-	gal
D047	gal/sk	0.01	0.01	3.3	4.8	gal
		Total mixwater		102.2	60.3	bbls

Displacement

	bbls
Surface Lines	3
Running String	5.03
Stinger	0.00
Casing ID 1	122.32
Casing ID 2	
	130.35

Spacer

Volume of Pre-flush pumped	0	bbls
Volume of Chemical/Fluoroscene Spacer	20	bbls
Volume of water Spacer pumped	10	bbls

BASS STRAIT OIL COMPANY

FORMATION INTEGRITY TEST CHART

WELL:	Maclean 1	Casing Size:	13.375	in	
RIG:	OceanPatriot	SET @:	350	TVD m	
DATE:	19-Oct-05		350	MD m	
SUPERVISORS:	R. King / S. Rodda				

	306	PSI
EMW :	13.8	PPG
EMW :	1.66	SG

FIT

Mud Wt:	8.7	PPG
Mud SG:	1.05	
Mud Type:	KCL-PHPA	

PUMPED BBLS	PRESSURE psi	PUMPED BBLS	PRESSURE psi	MINUTES	SHUT IN PRESSURE psi
0.00	0			0.00	306
0.25	41.00			1.00	283
0.50	41.00			2.00	279
0.75	45.00			3.00	274
1.00	54.00			4.00	270
1.25	64.00			5.00	270
1.50	114.00			6.00	
1.75	302.00			7.00	
2.00	306.00			8.00	
2.25				9.00	
2.50				10.00	
2.60					
2.70					
3.25					
3.50					
3.75					
4.00					
4.25					
5.00					

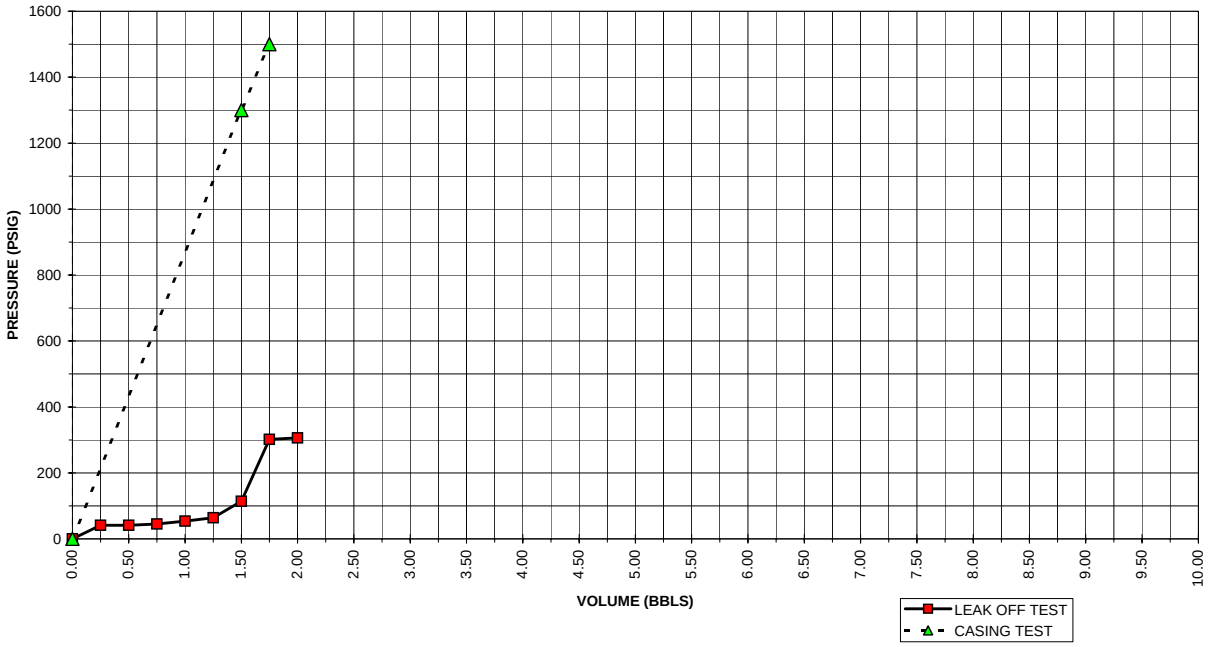
PUMP RATE	0.25	BPM
PUMPED	2.25	BBL
BLED BACK	2.25	BBL

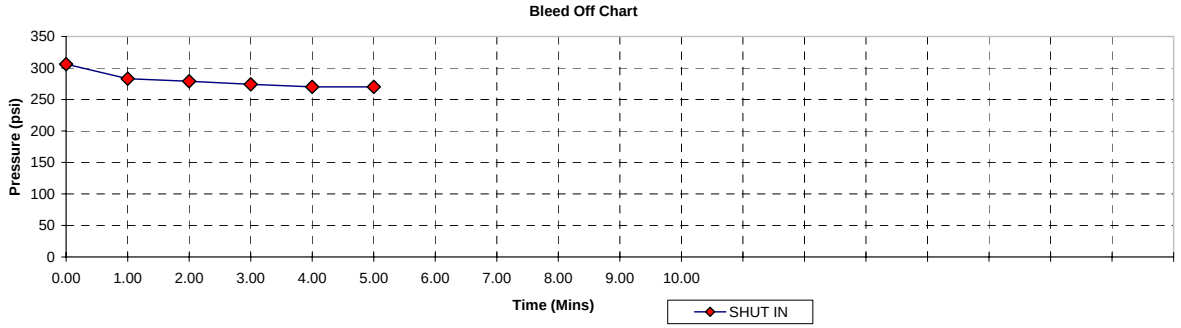
CASING TEST

Mud Wt:	8.53	PPG
Mud SG:	1.03	
Mud Type:	Sea Water	

PUMPED BBLS	PRESSURE psi	MINUTES	SHUT IN PRESSURE psi
0.00	0	0.00	
1.50	1300	2.00	
1.75	1500	4.00	
		6.00	
		8.00	
		10.00	

PUMP RATE	1.00	BPM
PUMPED	1.75	BBL
BLED BACK	1.75	BBL





APPENDIX 9

DRILLING FLUIDS REPORT

(By MI Swaco)

Fluids Recap

Bass Strait Oil Co

Maclean-1
Gippsland Basin
Vertical Exploration
Vic/P47

Prepared by: **Steve Jones**

MI SWACO

M-I *L.L.C.*

ONE-TRAX

DRILLING FLUID DATA MANAGEMENT SYSTEM

Operator:	Bass Strait Oil Co	**Spud Date:**	16/10/2005
Well Name:	Maclean-1	**TD Date:**	20/10/2005
Field/Area:	Gippsland Basin	**Location Code:**	7001
Description:	Vertical Exploration	**Project Engineer:**	Steve Jones
Location:	Vic/P47	**Mud Engineer:**	Jasdeep Singh
Warehouse:	Melbourne	**Mud Engineer:**	Mark Duff
Contractor:	Diamond Offshore	**M-I Well No.**	28764

Comments: Used Magnafloc

Type	Size in	Depth m	TVD m	Hole in	Max MW sp.gr.	Fluid 1	Fluid2	Drilling Problem	Days	Cost $
Casing	30	111	111	36	1.04	Spud Mud	Spud Mud	None	1	11710.21
Casing	13.375	350	350	17.5	1.04	Spud Mud	Spud Mud	None	3	6622.46
Open Hole	.	766	766	12.25	1.09	KCL/Polymer	KCL/Polymer	None	3	31649.94

Total Depth: 766 m TVD: 766 m Water Depth: 57 m Drilling Days: 7 Total Cost: 49,982.61

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL COMPANY
MACLEAN-1

CONTENTS:

– DISCUSSION BY INTERVAL

– DAILY DISCUSSION REPORT

– COST BY INTERVAL

– DAILY VOLUME SUMMARY SHEET

– TOTAL MATERIAL COST

– HYDRAULICS REPORT

– DRILLING FLUIDS SUMMARY

– PRODUCT CONSUMPTION

– DAILY MUD REPORTS

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL COMPANY
MACLEAN-1

DISCUSSION
BY
INTERVAL

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL COMPANY
MACLEAN-1

INTRODUCTION

Bass Strait Oil Company was the operator of vertical exploration well Maclean-1 drilled in Vic/P47, Gippsland Basin, Bass Strait, Victoria, Australia using the Diamond Offshore semi submersible rig, Ocean Patriot. The primary target was the oil bearing Kingfish formation and the secondary target was the Volador formation.

The rig was moved to location on 14 October 2005 after finishing the well, Gilbert-1. The water depth at the location was 57m and rig air gap of 22m.

Maclean 1 was spudded on 16 October 2005 at 03:00 hrs.

The 36" hole was drilled to the interval TD, 112 meters RKB using seawater with PHG sweeps.

The 30" casing was set at 112m as per plan and cemented in place with no troubles.

The 17½" hole was drilled to 355m in 7 hours and 13⅜ " casing set at 350m.

The BOP stack was run and shoe track cement column was drilled from 314m to 355m using seawater and Gel sweeps. The hole was drilled with 6% KCl/Polymer mud through the shoe and FIT was conducted to 13.8 ppg Mud weight equivalent at 358m.

The main 12¼" interval was drilled with 6% KCl/Polymer mud system to 766m in 17 hours using control drilling rates of 25 m/hr after 600m.

The TD was reached on 20 October 2005 at 06:00 hrs.

Due to no hydrocarbon shows, the well was plug and abandoned by setting three cement plugs.

The mud left inside the casing between cement plugs was treated with Glute 25 biocide and Safe-Cor corrosion inhibitor.

The riser and BOP stack was retrieved, well head cut, anchors pulled and the rig moved to the next location to drill for Apache's Furseal-1 Well.

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL COMPANY
MACLEAN-1

Interval I	73 to 112 metres	36″ (914mm) Hole Section	30″ (762 mm) casing set at 112m

MUD TYPE : SEAWATER / PRE HYDRATED GEL

MUD RELATED HOLE PROBLEMS : None

MUD PROPERTIES :

Mud Weight	:	8.7 ppg
YP	:	120 lb/100ft^2
API FL	:	15 cc/30 min
Funnel Vis	:	> 150 sec /qt
Hardness	:	40 mg/l
MBT	:	30 ppb

OPERATIONS

Maclean-1 was spudded on 16 October 2005 at 03:00 hrs using 26" bit with a 36" hole opener pumping seawater and Hi-Vis PHG sweeps. This section was drilled to 112m in 3 hrs.

MUD

The drill water was taken in pits once the rig was ballasted down on location. Due to silo malfunction, 85 tonnes of Gel could not be used for mixing. The bentonite was taken on board in a different silo (normally used for Barite) from the two supply boats.

In preparation of spudding 1600 bbls of 30 ppb Gel was mixed in the four pits and allowed to hydrate for 4 hours. The hole was drilled using seawater and 35 bbls sweeps mid-stand and 50 bbls gel sweeps were pumped every connection. The hole was swept with 100 bbls at TD and hole displaced with 220 bbls of unflocculated gel mud. A wiper

trip was made to the shoe and back to bottom, where a 100 bbl PHG sweep was pumped followed by 220 bbls PHG to fill hole, prior to pulling out of hole for running casing.

Out of the total of 2308 bbls of PHG mixed, 680 bbls of Pre Hydrated Gel were used for this section and the remaining 1628 bbls of Pre Hydrated Gel were carried over for the next section.

The cement mix fluid was made up with 200 bbls of seawater and 24 x 25 kg sacks of Calcium Chloride.

SOLIDS CONTROL

None used as returns were directed to seabed.

OBSERVATIONS AND RECOMMENDATIONS

No changes are proposed.

Due to vent line kept open while mixing Gel on the hoppers, an estimated 14 tonnes of Gel was discharged overboard out of 36 tonnes used as per the figures provided by the Ballast Control, although this was not confirmed by the Ballast Controller.

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL COMPANY
MACLEAN-1

Interval II	**112 to 355 metres**	**17½" (444mm) Hole Section**	**13⅜" (440 mm) casing set at 350m**

MUD TYPE : SEAWATER / PRE HYDRATED GEL

MUD RELATED HOLE PROBLEMS : None

MUD PROPERTIES :

Mud Weight	:	8.8 ppg
YP	:	122 lb/100ft²
API FL	:	15 cc/30 min
Funnel Vis	:	> 150 sec /qt
PV	:	22 cp
MBT	:	> 30 ppb

OPERATIONS

The 17½" drilling assembly was made up and run in hole to tag the cement at 110m. Drilling commenced using seawater with PHG sweeps. The sweep regime consisted of 50 bbls PHG midstand and 70 bbls PHG on connections. No problems were encountered as drilling progressed. At TD of 355m the hole was swept with 150 bbls PHG and displaced with 350 bbls PHG. A wiper trip was completed with no tight hole encountered. Once on bottom a further 350 bbls PHG was pumped to displace the hole before POOH to run 13⅜" casing. The 13⅜" casing was run to 350m and cemented with no problems.

MUD

1628 bbls of PHG mud from the previous section were carried over to this section. As drilling progressed a further 728 bbls of PHG were built to provide mud volume for the sweeps, filling the casing as it was run and drilling out the casing shoe.

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL COMPANY
MACLEAN-1

Out of the total 2356 bbls PHG, 2046 bbls were used for this section and 210 bbls were saved for using as sweeps when drilling cement before displacement to the KCl polymer mud and 100 bbls to blend with new polymer mud.

SOLIDS CONTROL

No solids control was used as returns were to seabed.

OBSERVATIONS AND RECOMMENDATIONS

No changes are recommended as the Pre Hydrated Gel sweep system is the most cost effective way to drill this interval.

COST ANALYSIS-RISERLESS INTERVAL

The planned cost for the riser less 36″ and 17½″ sections was more than the actual due to the additional amount of Gel mud mixed. The mud program did not account for the wiper trips made on both sections which required additional volumes for sweeps and displacing holes. The mud program also did not account for the spud mud required for drilling out the cement column and volume blended in the KCl polymer mud for the next section.

It is highly recommended that future mud programs are designed taking these factors into consideration.

The cost was only 5.7% more than planned based on the cost per barrel of mud. This can be attributed to the Bentonite which gets vented during transferring from the silos.

	Actual	Planned	Variance
Total Volume, bbls	4664	1864	150%
Total Cost, $	$17,997.39	$ 6,807.06	164%
Cost per bbls	$ 3.86	$ 3.65	5.7%

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL COMPANY
MACLEAN-1

Interval III	**355 to 766 metres**	**12¼" Hole Section**	**P & A**

MUD TYPE : SEAWATER / PRE HYDRATED GEL

MUD RELATED HOLE PROBLEMS : None

MUD PROPERTIES :

Mud Weight	:	8.65 – 9.1 ppg
YP	:	12 - 27 lb/100 ft sq
API FL	:	11 – 4.5 cc / 30 min
PV	:	12 – 15 cp
KCI		6 - 7 %
MBT	:	4 - 9 ppb
Hardness	:	200 – 400 mg/l
Magnafloc 5250	:	0.5 – 1 ppb
Drill Solids	:	< 4 %
PH	:	8.5 – 10.0
6 RPM:	:	5 – 11
Gels (10 sec):	:	> 5 lb/100 ft^2
Gels (10 min):	:	< 15 lb/100 ft^2
Max Temp		43^{O}C

OPERATIONS

The 12¼" bit and BHA were run in hole and the cement was tagged at 314m. The cement was drilled out using seawater and 100 bbl PHG sweeps to clean the hole. All returns were dumped overboard at the shakers. The FIT was conducted to 13.8 ppg mud weight equivalent at 358m after displacing the hole to KCl/Polymer mud while drilling out of casing shoe.

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL COMPANY
MACLEAN-1

Drilling continued ahead and TD was called at 776m. This interval was drilled in 17 hours.

The hole was circulated clean at TD and string pulled out to casing shoe back reaming from 600m to 350m due to excessive drag. The hole was further circulated clean at casing shoe and a slug pumped prior to complete POOH.

The well was plugged and abandoned due to no hydrocarbon shows. The first cement plug was placed in two stages at the bottom of the well from 766m to 516m. The second cement plug was placed across the casing shoe after pumping 60 bbls of HiVis pill prepared with 2 sacks of duovis and weighted to 10 ppg and was tagged at 274 m after WOC.

The third plug was placed at 150m after treating the 120 bbl mud to be left in casing with 55 gallons of SafeCor and 2 pails of Gluteraldehyde. The returns were dumped overboard.

The pits were dumped and cleaned for rig move.

MUD

1292 bbls of 6% KCl, 0.5 ppb Magnafloc 5250, 0.9 ppb Duovis, 1.5 ppb PAC UL was mixed and blended with 100 bbls of PHG from previous interval to give some filter cake properties to the 1392 bbls of mud.

This mud flowed quite well over 52/84 mesh screens at 900 gallons per minute. The concentration of the polymers was enhanced as the mud sheared and warmed up. The system was treated with 0.75 ppb Duovis to raise the low end rheology from 5 to 10 dial readings. The system was also treated with 0.5 ppb PAC UL to tighten the fluid loss from 11 cc to less than 5 cc per 30 minutes. The PHPA concentration was enhanced carefully monitoring the shakers for whole mud losses from 0.5 ppb to 1 ppb. The mud system also required additional KCl to maintain potassium levels at 32621 mg/l.

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL COMPANY
MACLEAN-1

MUD VOLUME ACCOUNTING

Initial Volumes @ 355m	**bbls**
Drill Water	1227
PHG	100
Chemical Vol	75
Total Volume Built	1402

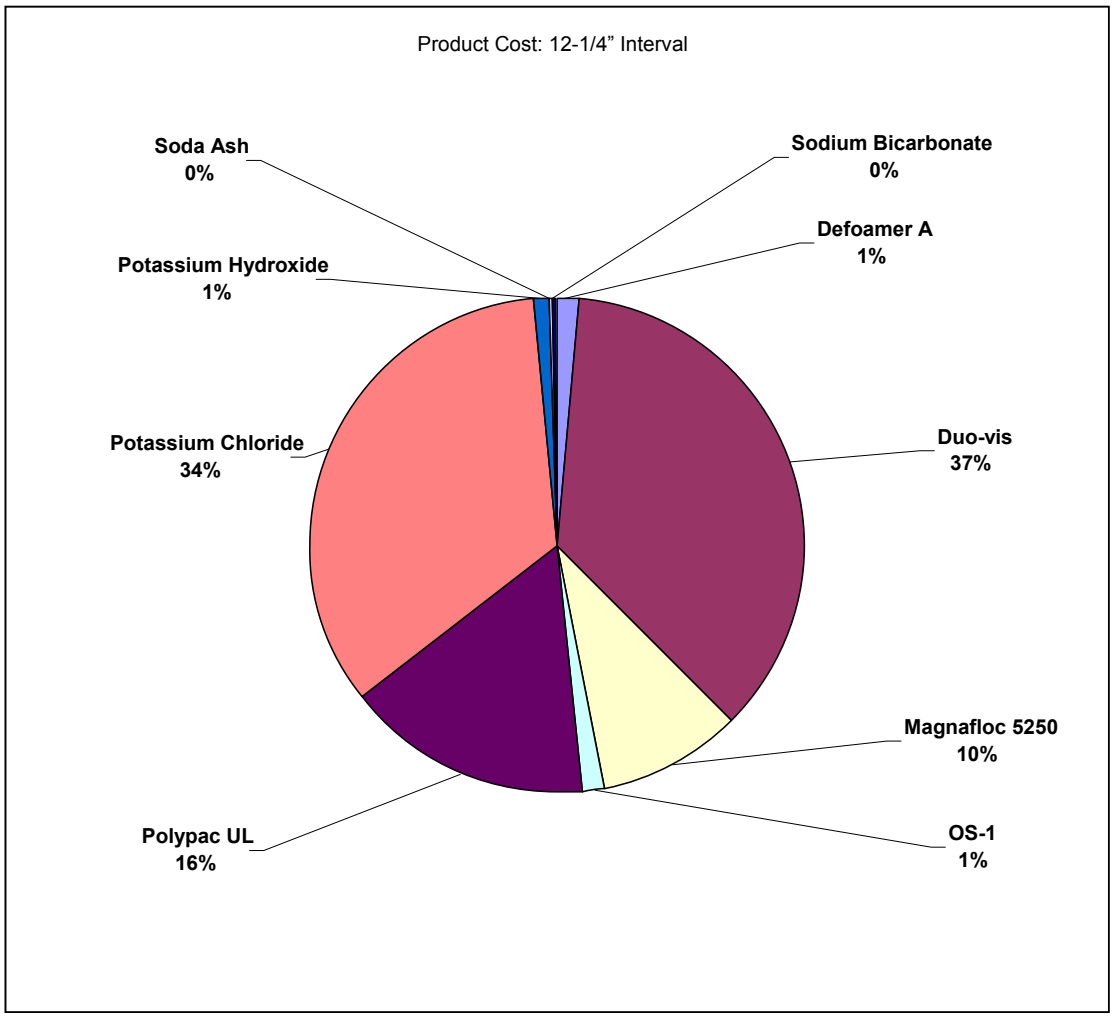
Losses	**bbls**
Solids Control Equipment	377

Final Volumes @ TD	**bbls**
Hole Volume	399
Surface Pit Volume	427
Premix Volume	200

COST ANALYSIS

	Planned	**Actual**	**Variance**
Interval Length, m	421	411	-2%
Fluid Cost, $	37984.5	31194.27	-18%
Volume, bbls	1478	1402	-5%
Cost per m	90.22	75.90	-16%
Cost per bbls	25.7	22.25	-13%
Dilution factor	1.3	0.92	-29%

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL COMPANY
MACLEAN-1



As evident from the chart, the two major cost components of the fluid were KCl and Duovis.

SOLIDS CONTROL

The shakers were dressed initially with 7 x 52 mesh and 9 x 84 mesh used screens with 10 mesh scalping screens. The screens were gradually upgraded to 110 mesh on two shakers. No new shakers were used for this well.

The desilter was not run.

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL COMPANY
MACLEAN-1

DOWNHOLE LOSSES

No downhole losses were observed while drilling this interval.

OBSERVATIONS AND RECOMMENDATIONS

The initial mix of 0.5 low molecular weight PHPA (Magnafloc 5250) along with 0.9 ppb Duovis and 1.5 ppb PAC UL had no problems in flowing over shakers at 900 gpm in contrast to overwhelming problems faced on the previous well. The average concentrations of the polymers was: Duovis 1.7 ppb, PolyPac UL 1.9 ppb, Magnafloc 5250 0.9 ppb.

The mud density of 9.1 ppg in the 12¼" inch section was sufficient to overcome formation stresses and provide hole stability. All of the density increase was allowed to be contributed from drilled solids but keeping the low gravity solids in the system less than 4% by volume.

The low rhelogy of 6 rpm readings of around 10 were adequate to provide good hole cleaning with 900-950 gpm circulation rates. The cuttings observed were well encapsulated and inhibited. The bit cutting structure marks could be seen on the cuttings on the shakers indicating the good integrity provided by the mud to cuttings.

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL COMPANY
MACLEAN-1

Formation Tops:

Formation	Lithology	Prognosed			Actual		
		Depth (m MDRT)	Depth (m TVDSS)	Thickness (m)	Depth (m MDRT)	Depth (m TVDSS)	Thickness (m)
Seafloor		94.5	73		78.5	57	
Gippsland Limestone	Limestone/ Marl	94.5	73	430	78.5	57	441.5
Lakes Entrance Formation	Marl / Shale	524.5	503	80	520	441.5	64
Gurnard Formation	Sandstone / Siltstone	604.5	583	33	584	505.5	46
Kingfish Formation	Sandstone / Coal / Shale	637.5	618	41	630	551.5	42
Volador Formation	Sandstone / Coal / Shale	678.5	657	42	672	593.5	36
Strzelecki Group	Sandstone / Coal	720.5	699	50.5	708	629.5	58
TD		**771**	**749**		**766**	**687.5**	

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL COMPANY
MACLEAN-1

DAILY DISCUSSION
REPORT

MI SWACO	**Operator :** Bass Strait Oil Co **Well Name :** Maclean-1 **Contractor :** Diamond Offshore	**Field/Area :** Gippsland Basin **Description :** Vertical Exploration **Location :** Vic/P47	**Daily Discussion** M-I Well : **28764**

15/10/2005	TD = 0 m	Day 0

Run anchors. Pick up running tools and drill pipe.Pick up 26" Bit w/ 36" HO & BHA.

Took Gel from Wrangler (38.6 T) and Far Grip (34.4 T) in different Silo. Rig Silo with 85 T gel malfunction. Start mixing Gel after ballast down. Mixed 1593 bbl gel in Pits1,3,4,&5.
Dressed shakers with 52/84 mesh old screens.

16/10/2005	TD = 112 m	Day 1

Spud well at 3:00 hrs. Drilled to 112 m. Ran Casing. WOC.
Mixed 1600 bbl of 30 ppb Gel in preparation of spud. Pumped 240 bbl as sweeps and displaced hole with 2 x 220 bbl PHG.
Mixed more Gel in the pits for next section.

17/10/2005	TD = 355 m	Day 2

Drilled cement/shoe. Drilled ahed 17.5 inch hole to 355 m using 50+70 bbl Gel sweeps. Swept hole with 150 bbl at TD. Displace hole with 350 bbl PHG. Survey. Wiper trip. Displace hole with 350 bbl PHG. POOH. Run casing.
Mixed Gel as required. Used 1281 bbl for sweeps, 730 bbl for displacement. Left with 210 bbl gel for drilling cement. Mixed 14 bags KCl in Pit 5 in preparation for mixing polymer mud. This will be charged off in next section.

18/10/2005	TD = 355 m	Day 3

Run casing to bottom. Cemented as per plan. WOC. Running BOP stack.
210 bbl PHG available for drilling cement. Blended 100 bbl PHG with new polymer mud to impart filtercake properties. Mixing 6% KCL/Polymer Mud using 0.5 ppb Magnafloc. Shakers dressed with 52/84 mesh screens.

19/10/2005	TD = 675 m	Day 4

Madeup BHA and drilled out shoe/cement with SW & Gel sweeps. Displaced hole to 8.65 ppg KCl/Polymer mud and conducted FIT to x.xx ppg. Drilled ahead to midnight depth of 675m.
Mud flowed OK over 52/84 mesh shakers on displacement. Gradually upgraded 52 mesh shaker screens to 110 & 84. Occasional losses at shakers. Treated system with Duovis/PAC/SodaAsh/OS-1/Magnafloc/KOH to tighten fluid properties. Cuttings well encapsulated & good integrity.

20/10/2005	TD = 766 m	Day 5

Drilled on to TD of 766 m. Circulated hole clean. P/O to shoe. Circulated at shoe. POOH. Laid down BHA. RIH with OEDP. Placed cement plug 1a from 766m to 666m. Circulated bottoms up. Pumped Cement plug 1b from 666m to 566m. Circulated bottoms up. Pumped cement plug 2 from 400m to 300m. circulated bottoms up. WOC
Conditioned mud to required properties during drilling. Mixed hivis pill for cement plug.

MI SWACO	**Operator :** Bass Strait Oil Co **Well Name :** Maclean-1 **Contractor :** Diamond Offshore	**Field/Area :** Gippsland Basin **Description :** Vertical Exploration **Location :** Vic/P47	**Daily Discussion** M-I Well : **28764**

21/10/2005	TD = 766 m	Day 6

Tagged Plug#2 at 274 m. Displaced with 120 bbl of inhibited mud. Set Plug#3. Dumped returns. Unlatched BOP stack & 30" well head housing. Mixed Inhibited mud for displacement above the 2nd plug. Dumped all mud after final plug set. Dump and clean pits.

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL COMPANY
MACLEAN-1

COST
BY
INTERVAL

MI SWACO

PRODUCT SUMMARY

Operator : Bass Strait Oil Co
Well Name : Maclean-1
Contractor : Diamond Offshore
Field/Area : Gippsland Basin
Description : Vertical Exploration
Location : Vic/P47

SUMMARY OF PRODUCT USAGE FOR 36" INTERVAL 15/10/2005 - 15/10/2005, 73 - 112 m

WATER-BASED MUD	SIZE	AMOUNT	UNIT COST ($)	PROD COST ($)
1 - CALCIUM CHLORIDE Sacks	25 KG BG	24	13.97	335.28
2 - CAUSTIC SODA	25 KG DM	5	25.85	129.25
3 - MI Gel (Bulk)	1 MT BG	36	312.38	11245.68
SUB TOTAL:				11710.21
TAX:				0.00
WATER-BASED MUD TOTAL COST:				11710.21
TOTAL MUD COST FOR INTERVAL:				11710.21

PRODUCT SUMMARY

Operator : Bass Strait Oil Co
Well Name : Maclean-1
Contractor : Diamond Offshore
Field/Area : Gippsland Basin
Description : Vertical Exploration
Location : Vic/P47

SUMMARY OF PRODUCT USAGE FOR 17-1/2" INTERVAL 16/10/2005 - 18/10/2005, 112 - 355 m

WATER-BASED MUD	SIZE	AMOUNT	UNIT COST ($)	PROD COST ($)
1 - MI Gel (Bulk)	1 MT BG	21	312.38	6622.46
SUB TOTAL:				6622.46
TAX:				0.00
WATER-BASED MUD TOTAL COST:				6622.46
TOTAL MUD COST FOR INTERVAL:				6622.46

MI SWACO

PRODUCT SUMMARY

Operator : Bass Strait Oil Co
Well Name : Maclean-1
Contractor : Diamond Offshore
Field/Area : Gippsland Basin
Description : Vertical Exploration
Location : Vic/P47

SUMMARY OF PRODUCT USAGE FOR 12-1/4" INTERVAL 19/10/2005 - 21/10/2005, 355 - 766 m

WATER-BASED MUD	SIZE	AMOUNT	UNIT COST ($)	PROD COST ($)
1 - DEFOAM A	5 GA CN	5	70.04	350.20
2 - DUO-VIS	25 KG BG	43	226.56	9742.08
3 - GLUTE 25	25 LT CN	2	73.49	146.98
4 - OS-1	25 KG BG	8	38.36	306.88
5 - POLYPAC UL	25 KG BG	47	93.43	4391.21
6 - SODA ASH	25 KG BG	5	15.33	76.65
7 - SODIUM BICARBONATE	25 KG BG	4	13.88	55.52
8 - POTASSIUM HYDROXIDE	25 KG CN	7	35.88	251.16
9 - KCl BB	1 MT BG	19	484.26	9200.94
10 - MI Gel (Bulk)	1 MT BG	14	312.38	4310.84
11 - MAGNAFLOC 5250	25 KG BG	25	104.10	2602.50
12 - SAFE-COR	55 GA DM	1	308.69	308.69

SUB TOTAL:	31743.65
TAX:	0.00
WATER-BASED MUD TOTAL COST:	31743.65

TOTAL MUD COST FOR INTERVAL: 31743.65

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL COMPANY
MACLEAN-1

DAILY VOLUME
SUMMARY SHEET

Bass Strait Oil Co
Maclean-1

Daily Volume Summary

36" Interval - Seawater/Gel Sweeps

		Mud Volume (bbl)					Volume Built bbl								Volume Lost bbl							
Date	Depth	Hole	Surf	Premix	Reserve	Total	Drill	Mud	Synthetic	Brine	Chemical	Barite	Daily	Cum	Displace	Centri-	Desilter	Dump	Hole	Sweeps	Daily	Cummul
		Active	Active			Vol	Water	Received	Added	Added	Volume	Volume	Built	Built	ment	fuge					Lost	Lost
15-Oct-05	0				1593	**1593**	1505				88		**1593**	**1593**							**0**	**0**
16-Oct-05	112				1628	**1628**	671				44		**715**	**2308**	440					240	**680**	**680**

17-1/2" Interval - Seawater / Hi Vis Sweeps

		Mud Volume (bbl)					Volume Built bbl								Volume Lost bbl							
Date	Depth	Hole	Surf	Premix	Reserve	Total	Drill	Mud	Synthetic	Brine	Chemical	Barite	Daily	Cum	Displace	Centri-	Transfer	Dump	Fill	Sweeps	Daily	Cummul
		Active	Active			Vol	Water	Received	Added	Added	Volume	Volume	Built	Built	ment	fuge	Next Sec		Casing		Lost	Lost
17-Oct-05	355				310	**310**	720	1628			8		**2356**	**2356**	730			35	180	1101	**2046**	**2046**
18-Oct-05	355					**0**							**0**	**2356**			100			210	**310**	**2356**
						0							**0**								**0**	**0**
													0								**0**	**0**

12-1/4" Interval - 6% KCl / PHPA

		Mud Volume (bbl)					Volume Built bbl								Volume Lost bbl							
Date	Depth	Hole	Surf	Premix	Reserve	Total	Drill	Mud	Synthetic	Brine	Chemical	Barite	Daily	Cum	Shakers	Sweeps	Desilter	Dump	Hole	Other	Daily	Cummul
		Active	Active		(Brine)	Vol	Water	Received	Added	Added	Volume	Volume	Built	Built							Lost	Lost
19-Oct-05	675	350	402	378		**1130**	1227	100			65		**1392**	**1392**	263						**263**	**263**
20-Oct-05	766	399	427	200		**1026**					10		**10**	**1402**	114						**114**	**377**
21-Oct-05	766					**0**							**0**	**1402**				908	118		**1026**	**1403**

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL COMPANY
MACLEAN-1

TOTAL
MATERIAL
COST

MI SWACO

PRODUCT SUMMARY

Operator : Bass Strait Oil Co
Well Name : Maclean-1
Contractor : Diamond Offshore
Field/Area : Gippsland Basin
Description : Vertical Exploration
Location : Vic/P47

SUMMARY OF PRODUCT USAGE FOR INTERVAL 15/10/2005 - 21/10/2005, 0 - 766 m

WATER-BASED MUD	SIZE	AMOUNT	UNIT COST ($)	PROD COST ($)
1 - CALCIUM CHLORIDE Sacks	25 KG BG	24	13.97	335.28
2 - CAUSTIC SODA	25 KG DM	5	25.85	129.25
3 - DEFOAM A	5 GA CN	5	70.04	350.20
4 - DUO-VIS	25 KG BG	43	226.56	9742.08
5 - GLUTE 25	25 LT CN	2	73.49	146.98
6 - OS-1	25 KG BG	8	38.36	306.88
7 - POLYPAC UL	25 KG BG	47	93.43	4391.21
8 - SODA ASH	25 KG BG	5	15.33	76.65
9 - SODIUM BICARBONATE	25 KG BG	4	13.88	55.52
10 - POTASSIUM HYDROXIDE	25 KG CN	7	35.88	251.16
11 - KCl BB	1 MT BG	19	484.26	9200.94
12 - MI Gel (Bulk)	1 MT BG	71	312.38	22178.98
13 - MAGNAFLOC 5250	25 KG BG	25	104.10	2602.50
14 - SAFE-COR	55 GA DM	1	308.69	308.69

SUB TOTAL:	50076.32
TAX:	0.00
WATER-BASED MUD TOTAL COST:	50076.32

TOTAL MUD COST FOR INTERVAL: 50076.32

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL COMPANY
MACLEAN-1

HYDRAULICS
REPORT

HYDRAULICS SUMMARY

Operator : Bass Strait Oil Co
Well Name : Maclean-1
Contractor : Diamond Offshore

Field/Area : Gippsland Basin
Description : Vertical Exploration
Location : Vic/P47

Date		15/10/2005	16/10/2005	17/10/2005	18/10/2005	19/10/2005	20/10/2005	21/10/2005
Depth	m		112	350	350	655	766	766
Days Since Spud			1	2	3	4	5	6
*RHEOLOGICAL PROPERTIES								
Mud Wt	sp.gr.	1.03	1.03	1.03	1.03	1.06	1.09	1.09
Plastic Visc	cP					15	15	15
Yield Point	lb/100ft²					24	27	33
3-rpm Rdg	Fann deg					8	8	7
np Value		.3923	.3923	.3923	.3923	.4695	.4406	.3923
Kp Value	lb•s^n/100ft²	4.4345	4.4345	4.4345	4.4345	2.2267	2.8718	4.4345
na Value		.4334	.4334	.4334	.4334	.3249	.3469	.4334
Ka Value	lb•s^n/100ft²	3.6831	3.6831	3.6831	3.6831	5.0241	4.8474	3.6831
*FLOW DATA								
Flow Rate	gal/min	0	0	0	0	987	987	987
Pump Pressure	psi	0	0	0	0	1400	1400	1400
Pump	hhp	*	*	*	*	806	*	*
*PRESSURE LOSSES								
Drill String	psi	*	*	*	*	824	*	*
Bit	psi	*	*	*	*	22659	*	*
Annulus	psi	*	*	*	*	31	*	*
Total System	psi	*	*	*	*	23515	*	*
*BIT HYDRAULICS								
Nozzles	1/32"	24x3	24x3	24x3		24x3	24x3	24x3
Nozzles	1/32"					28x1	28x1	28x1
Bit Pressure	%	*	*	*	*	1619	*	*
Bit	hhp	*	*	*	*	13048	*	*
Bit HSI	(index)	*	*	*	*	110.71	*	*
Jet Velocity	ft/s	*	*	*	*	1692	*	*
Impact Force	lbf	*	*	*	*	7645	*	*
DRILL COLLARS ANNULUS								
Velocity	ft/min	*	*	*	*	281	*	*
Critical Vel	ft/min	*	*	*	*	390	*	*
Reynolds Number		*	*	*	*	1476	*	*
Crit Re (Lam - Tran)		*	*	*	*	2827	*	*
*DRILL PIPE ANNULUS								
Velocity	ft/min	*	*	*	*	193	*	*
Critical Vel	ft/min	*	*	*	*	351	*	*
Reynolds Number		*	*	*	*	939	*	*
Crit Re (Lam - Tran)		*	*	*	*	2827	*	*
*HOLE CLEANING								
Slip Velocity	ft/min	*	*	*	*	17	*	*
Rising Velocity	ft/min	*	*	*	*	177	*	*
Lifting Capacity	%	*	*	*	*	91	*	*
Cutting Conc	%	*	*	*	*	0.93	*	*
Penetration Rate	m/h	0	0	0	0	25	25	25
CASING SHOE PRESSURES								
ECD	sp.gr.	*	*	*	*	1.08	*	*
ECD+Cuttings	sp.gr.	*	*	*	*	1.1	*	*
TOTAL DEPTH PRESSURES								
ECD	sp.gr.	*	*	*	*	1.09	*	*
ECD+Cuttings	sp.gr.	*	*	*	*	1.11	*	*

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL COMPANY
MACLEAN-1

DRILLING
FLUIDS
SUMMARY

DRILLING FLUIDS SUMMARY

Operator : Bass Strait Oil Co
Field/Area : Gippsland Basin
Well Name : Maclean-1
Description : Vertical Exploration
Contractor : Diamond Offshore
Location : Vic/P47

Date		15/10/2005	16/10/2005	17/10/2005	18/10/2005	19/10/2005	19/10/2005
Depth/TVD	m	0/0	112/112	350/350	350/350	655/655	550/550
Activity		reparing for Spu	WOC	Run Casing	Run BOP stack	Drill 12.25" Hole	Drill 12.25" Hole
Mud Type		SW/Gel Swee	SW/Gel Swee	SW/Gel Swee	SW/Gel Swee	KCl/Polymer	KCl/Polymer
Hole Size	in	36	36	17.5	17.5	12.25	12.25
Circ Volume	bbl					752	752
Flow Rate	gal/min	0	0	0	0	987	987
Circ Pressure	psi	0	0	0	0	1400	1400
Avg ROP	m/hr	0	0	0	0	25	25
Sample From		Pit 3	Pit #3	Pit #3		Pit #3	Pit 3
Flow Line Temp	°F					95	95
Mud Weight	sp.gr.	1.03@60 °F	1.03 @ °F	1.03 @ °F	1.03 @ °F	1.06@80 °F	1.05+@80 °F
Funnel Viscosity	s/qt	> 120	>120	>100	>100	60	53
PV	cP					15	12
YP	lb/100ft²					24	23
R600/R300/R200		/ /	/ /	/ /	/ /	54/39/33	47/35/30
R100/R6/R3		/ /	/ /	/ /	/ /	25/10/8	22/8/6
10s/10m/30m Gel	lb/100ft²	//	//	//	//	7/10/16	7/11/14
API Fluid Loss	cc/30 min					5	7.5
HTHP Fluid Loss	cc/30 min						
Cake API/HT	1/32"	/	/	/	/	1/	<1/
Solids	%Vol					3	4
Oil/Water	%Vol	/	/	/	/	/97	/96
Sand	%Vol					0.5	0.5
MBT	lb/bbl					5	6
pH						10	9.5
Alkal Mud (Pm)						0.4	0.7
Pf/Mf		/	/	/	/	0.2/0.4	0.3/1
Chlorides	mg/l					39000	30000
Hardness Ca						440	200
KCl	% Wt					6	6
Sulphite	mg/l					20	20
PHPA	ppb					0.9	0.85
Daily Mud Cost	$	11710.21	5622.84	999.62	0.00	28608.69	
Cuml Mud Cost	$	11710.21	17333.05	18332.67	18332.67	46941.36	
Sales Engineer		Mark Du/Jasdeep	Mark Du/Jasdeep	Mark Du/Jasdeep	Mark Du/Jasdeep	Mark Du/Jasdeep	Mark Du/Jasdeep
Products Used		CaCl2 / 24	BulkGel / 18	BulkGel / 3.2		DFOAM / 5	
		NaOH / 5				Duovis / 38	
		BulkGel / 36				OS-1 / 8	
						PacUL / 47	
						Soda / 5	
						Bicarb / 4	
						KOH / 7	
						KClBB / 16	
						BulkGel / 13.5	
						MagnaF / 25	

REMARKS

15/10/2005:
16/10/2005:
17/10/2005:
18/10/2005:
19/10/2005:

DRILLING FLUIDS SUMMARY

Operator : Bass Strait Oil Co
Field/Area : Gippsland Basin
Well Name : Maclean-1
Description : Vertical Exploration
Contractor : Diamond Offshore
Location : Vic/P47

Date		19/10/2005	20/10/2005	20/10/2005	21/10/2005		
Depth/TVD	m	360/360	766/766	725/725	766/766		
Activity		Drill 12.25" Hole	P&A	P&A	P & A		
Mud Type		KCl/Polymer	KCl/Polymer	KCl/Polymer	KCl/Polymer		
Hole Size	in	12.25	12.25	12.25	12.25		
Circ Volume	bbl	752	826	826			
Flow Rate	gal/min	987	987	987	987		
Circ Pressure	psi	1400	1400	1400	1400		
Avg ROP	m/hr	25	25	25	25		
Sample From		Pit 3	Pit 3	Pit 3	Pit 3		
Flow Line Temp	°F	60	95	95			
Mud Weight	sp.gr.	1.03+@60 °F	1.09@80 °F	1.09@ 80 °F	1.09@70 °F		
Funnel Viscosity	s/qt	47	67	72	75		
PV	cP	8	15	15	15		
YP	lb/100ft²	12	27	24	33		
R600/R300/R200		28/20/16	57/42/36	54/39/33	63/48/41		
R100/R6/R3		12/3/2	27/10/8	25/11/8	32/9/7		
10s/10m/30m Gel	lb/100ft²	3/4/4	8/14/17	8/11/18	12/17/19		
API Fluid Loss	cc/30 min	11	4.6	5	4.8		
HTHP Fluid Loss	cc/30 min						
Cake API/HT	1/32"	<1/	1/	1/	1/		
Solids	%Vol	2	4	2	5		
Oil/Water	%Vol	/98	/96	/98	/95		
Sand	%Vol		2	1	1.5		
MBT	lb/bbl	3	8	7	9		
pH		9	8.5	9	10.5		
Alkal Mud (Pm)		0.5	0.3	0.4	1.2		
Pf/Mf		0.05/0.55	0.03/0.6	0.2/0.4	0.3/1		
Chlorides	mg/l	25000	38000	39000	37000		
Hardness Ca		400	400	400	480		
KCl	% Wt	5	7	6.5	7		
Sulphite	mg/l	0	0	20			
PHPA	ppb	0.5	0.9	0.9	1		
Daily Mud Cost	$		2585.58		549.38		
Cuml Mud Cost	$		49526.94		50076.32		
Sales Engineer		Mark Du/Jasdeep	Mark Du/Jasdeep	Mark Du/Jasdeep	Mark Du/Jasdeep		
Products Used			Duovis / 5		Glut / 2		
			KClBB / 3		BulkGel / 0.3		
					SAFE-CO / 1		

REMARKS

20/10/2005:

21/10/2005:

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL COMPANY
MACLEAN-1

PRODUCT
CONSUMPTION

Product Consumption

Operator : Bass Strait Oil Co
Well Name : Maclean-1
Location : Vic/P47
Field/Area: Gippsland Basin

Contractor: Diamond Offshore
M-I Engineer: Jasdeep Singh
Rig Name: Ocean Patriot
Stock Point: Melbourne

	DATES											
Product	Product	Oct 15, 2005		Oct 16, 2005		Oct 17, 2005		Oct 18, 2005		Oct 19, 2005		Page
Name	Price	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Totals
CALCIUM CHLORIDE Sacks	13.97	24	335.28		0.00		0.00		0.00		0.00	335.28
CAUSTIC SODA	25.85	5	129.25		0.00		0.00		0.00		0.00	129.25
CITRIC ACID	43.74		0.00		0.00		0.00		0.00		0.00	0.00
DEFOAM A	70.04		0.00		0.00		0.00		0.00	5	350.20	350.20
DUO-VIS	226.56		0.00		0.00		0.00		0.00	38	8609.28	8609.28
GLUTE 25	73.49		0.00		0.00		0.00		0.00		0.00	0.00
GUAR GUM	53.83		0.00		0.00		0.00		0.00		0.00	0.00
KWIK SEAL FINE	28.69		0.00		0.00		0.00		0.00		0.00	0.00
LIME	10.59		0.00		0.00		0.00		0.00		0.00	0.00
OS-1	38.36		0.00		0.00		0.00		0.00	8	306.88	306.88
PIPE-LAX W	400.15		0.00		0.00		0.00		0.00		0.00	0.00
POLYPAC UL	93.43		0.00		0.00		0.00		0.00	47	4391.21	4391.21
SODA ASH	15.33		0.00		0.00		0.00		0.00	5	76.65	76.65
SODIUM BICARBONATE	13.88		0.00		0.00		0.00		0.00	4	55.52	55.52
KWIKSEAL MEDIUM	28.69		0.00		0.00		0.00		0.00		0.00	0.00
MIX II FINE	28.89		0.00		0.00		0.00		0.00		0.00	0.00
MIX II MEDIUM	28.89		0.00		0.00		0.00		0.00		0.00	0.00
POTASSIUM HYDROXIDE	35.88		0.00		0.00		0.00		0.00	7	251.16	251.16
KCl BB	484.26		0.00		0.00		0.00		0.00	16	7748.16	7748.16
MI BAR (Bulk)	299.25		0.00		0.00		0.00		0.00		0.00	0.00
MI Gel (Bulk)	312.38	36	11245.68	18	5622.84	3	999.62		0.00	14	4217.13	22085.27
POLY PLUS DRY	83.50		0.00		0.00		0.00		0.00		0.00	0.00
MAGNAFLOC 5250	104.10		0.00		0.00		0.00		0.00	25	2602.50	2602.50
SAFE-COR	308.69		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			11710.21		5622.84		999.62		0.00		28608.69	46941.36
Daily Sales Tax			0		0		0		0		0	0.00
Cumulative Product			11710.21		17333.05		18332.67		18332.67		46941.36	46941.36
Cumulative Cost			11710.21		17333.05		18332.67		18332.67		46941.36	46941.36

Product Consumption

Operator : Bass Strait Oil Co
Well Name : Maclean-1
Location : Vic/P47
Field/Area: Gippsland Basin

Contractor: Diamond Offshore
M-I Engineer: Jasdeep Singh
Rig Name: Ocean Patriot
Stock Point: Melbourne

	DATES											
Product	Previous	Oct 20, 2005		Oct 21, 2005								Page
Name	Page	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Totals
CALCIUM CHLORIDE Sacks	335.28		0.00		0.00							335.28
CAUSTIC SODA	129.25		0.00		0.00							129.25
CITRIC ACID	0.00		0.00		0.00							0.00
DEFOAM A	350.20		0.00		0.00							350.20
DUO-VIS	8609.28	5	1132.80		0.00							9742.08
GLUTE 25	0.00		0.00	2	146.98							146.98
GUAR GUM	0.00		0.00		0.00							0.00
KWIK SEAL FINE	0.00		0.00		0.00							0.00
LIME	0.00		0.00		0.00							0.00
OS-1	306.88		0.00		0.00							306.88
PIPE-LAX W	0.00		0.00		0.00							0.00
POLYPAC UL	4391.21		0.00		0.00							4391.21
SODA ASH	76.65		0.00		0.00							76.65
SODIUM BICARBONATE	55.52		0.00		0.00							55.52
KWIKSEAL MEDIUM	0.00		0.00		0.00							0.00
MIX II FINE	0.00		0.00		0.00							0.00
MIX II MEDIUM	0.00		0.00		0.00							0.00
POTASSIUM HYDROXIDE	251.16		0.00		0.00							251.16
KCl BB	7748.16	3	1452.78		0.00							9200.94
MI BAR (Bulk)	0.00		0.00		0.00							0.00
MI Gel (Bulk)	22085.2		0.00		93.71							22178.98
POLY PLUS DRY	0.00		0.00		0.00							0.00
MAGNAFLOC 5250	2602.50		0.00		0.00							2602.50
SAFE-COR	0.00		0.00	1	308.69							308.69
Cumulative Engineering			0.00		0.00							0.00
Daily Product			2585.58		549.38							50076.32
Daily Sales Tax			0		0							0.00
Cumulative Product			49526.94		50076.32							50076.32
Cumulative Cost			49526.94		50076.32							50076.32

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL COMPANY
MACLEAN-1

DAILY
MUD
REPORTS

WATER-BASED MUD REPORT No. 1

Date	15/10/2005	**Depth/TVD**	0 m / 0 m
Spud Date	16/10/2005	**Mud Type**	SW/Gel Sweeps
Water Depth	57	**Activity**	Preparing for Spud

Operator : Bass Strait Oil Co
Report For : Peter Dane/ Simon Rodda
Well Name : Maclean-1
Contractor : Diamond Offshore
Report For : Paul Baker/Troy Williams

Field/Area : Gippsland Basin
Description : Vertical Exploration
Location : Vic/P47
M-I Well No. : 28764

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 36 in 26" w/ 36" HO		Surface	Hole	Pump Make	NATIONAL 12P-16	NATIONAL 12P-16(
Nozzles 24x3 / 1/32"		30in @111m (111TVD)		Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size in	Length m	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
				Pump stk/min		
Drill Pipe Size in	Length m	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
				Bottoms Up		
Drill Collar Size in	Length m	Production or Liner	In Storage 1594	Total Circ Time		
				Circulating Pressure		

MUD PROPERTIES

Sample From		Pit 3@17:00	
Flow Line Temp	°F		
Depth/TVD	m	0/0	
Mud Weight	sp.gr.	1.03@60°F	
Funnel Viscosity	s/qt	> 120	
Rheology Temp	°F		
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	% Wt		
Sulphite	mg/l		
PHPA	ppb		

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
CALCIUM CHLORIDE Sacks	25 KG BG	24.00
CAUSTIC SODA	25 KG DM	5.00
MI Gel (Bulk)	1 MT BG	36.00

SOLIDS EQUIP	Size	Hr
Shaker 1	4 x 52	0
Shaker 2	3 x 52, 1 x 84	0
Shaker 3	4 x 84	0
Shaker 4	4 x 84	0
DFE-Centrifuge		0
D-Sander		0
D-Silter		0
Vacuum D-Gasser		0

MUD PROPERTY SPECIFICATIONS

Weight	1.03
Viscosity	> 100
Filtrate	NC

REMARKS AND TREATMENT

Took Gel from Wrangler (38.6 T) and Far Grip (34.4 T) in different Silo.
Rig Silo with 85 T gel malfunction. Start mixing Gel after ballast down.
Mixed 1593 bbl gel in Pits1,3,4,&5.
Dressed shakers with 52/84 mesh old screens.

REMARKS

Run anchors. Pick up running tools and drill pipe.Pick up 26" Bit w/ 36" HO & BHA.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service	24	Oil Added	0	NaCl	/	np/na Values	
Drilling		Water Added	1506	KCl	/	kp/ka (lb•s^n/100ft²)	
Tripping		Mud Received	0	Low Gravity	/	Bit Loss (psi / %)	
Non-Productive Tim		Dumped	0	Bentonite	/	Bit HHP (hhp / HSI)	
		Shakers	0	Drill Solids	/	Bit Jet Vel (ft/s)	
		Formation	0	Weight Material	/	Ann. Vel DP (ft/min)	
		Left in Hole	0	Chemical Conc	- /	Ann. Vel DC (ft/min)	
		Sweeps	0	Inert/React		Crit Vel DP (ft/min)	
		Displacement	0	Average SG		Crit Vel DC (ft/min)	
		Left Behind Casing	0	Carb/BiCarb (m mole/L)	/		

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Jasdeep Singh Mark Duff 08-9302 3790			$ 11,710.21	$ 11,710.21

WATER-BASED MUD REPORT No. 2

Date	16/10/2005	**Depth/TVD**	112 m / 112 m
Spud Date	16/10/2005	**Mud Type**	SW/Gel Sweeps
Water Depth	57	**Activity**	WOC

Operator : Bass Strait Oil Co
Report For : Peter Dane/ Simon Rodda
Well Name : Maclean-1
Contractor : Diamond Offshore
Report For : Paul Baker/Troy Williams

Field/Area : Gippsland Basin
Description : Vertical Exploration
Location : Vic/P47
M-I Well No. : 28764

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 36 in		Surface	Hole	Pump Make	NATIONAL 12P-16	NATIONAL 12P-16(
Nozzles 24x3 / 1/32"		30in @111m (111TVD)	138.4	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
in	m		-2.4	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
in	m		-2.4	Bottoms Up		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
in	m		1629	Circulating Pressure		

MUD PROPERTIES

Sample From		Pit #3@07:15	
Flow Line Temp	°F		
Depth/TVD	m	112/112	
Mud Weight	sp.gr.	1.03	
Funnel Viscosity	s/qt	>120	
Rheology Temp	°F	49	
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	% Wt		
Sulphite	mg/l		
PHPA	ppb		

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
MI Gel (Bulk)	1 MT BG	18.00

SOLIDS EQUIP	Size	Hr
Shaker 1	4 x 52	0
Shaker 2	3 x 52, 1 x 84	0
Shaker 3	4 x 84	0
Shaker 4	4 x 84	0
DFE-Centrifuge		0
D-Sander		0
D-Silter		0
Vacuum D-Gasser		0

MUD PROPERTY SPECIFICATIONS

Weight	1.03
Viscosity	> 100
Filtrate	NC

REMARKS AND TREATMENT

Mixed 1600 bbl of 30 ppb Gel in preparation of spud. Pumped 240 bbl as sweeps and displaced hole with 2 x 220 bbl PHG.
Mixed more Gel in the pits for next section.

REMARKS

Spud well at 3:00 hrs. Drilled to 112 m. Ran Casing. WOC.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service	5	Oil Added	0	NaCl	/	np/na Values	
Drilling	4	Water Added	671	KCl	/	kp/ka (lb•s^n/100ft²)	
Tripping	5	Mud Received	0	Low Gravity	/	Bit Loss (psi / %)	
Non-Productive Tim		Dumped	0	Bentonite	/	Bit HHP (hhp / HSI)	
Running Casing	2	Shakers	0	Drill Solids	/	Bit Jet Vel (ft/s)	
Cementing	2	Formation	0	Weight Material	NA/ NA	Ann. Vel DP (ft/min)	
Wait on Cement	6	Left in Hole	0	Chemical Conc	- /	Ann. Vel DC (ft/min)	
		Sweeps	240	Inert/React		Crit Vel DP (ft/min)	
		Displacement	440	Average SG		Crit Vel DC (ft/min)	
		Left Behind Casing	0	Carb/BiCarb (m mole/L)	/		

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Jasdeep Singh				
Mark Duff 08-9302 3790			$ 5,622.84	$ 17,333.05

WATER-BASED MUD REPORT No. 3

Date	17/10/2005	**Depth/TVD**	355 m / 355 m
Spud Date	16/10/2005	**Mud Type**	SW/Gel Sweeps
Water Depth	57	**Activity**	Run Casing

Operator : Bass Strait Oil Co
Report For : Peter Dane/ Simon Rodda
Well Name : Maclean-1
Contractor : Diamond Offshore
Report For : Paul Baker/Troy Williams

Field/Area : Gippsland Basin
Description : Vertical Exploration
Location : Vic/P47
M-I Well No. : 28764

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 17.5 in		Surface	Hole	Pump Make	NATIONAL 12P-16	NATIONAL 12P-16
Nozzles 24x3 / 1/32"		30in @111m (111TVD)	319.4	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
in	m	13.375in @350m (350TVD)	-1.4	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
in	m		-1.4	Bottoms Up		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
in	m		311	Circulating Pressure		

MUD PROPERTIES

Sample From		Pit #3@21:45	
Flow Line Temp	°F		
Depth/TVD	m	350/350	
Mud Weight	sp.gr.	1.03	
Funnel Viscosity	s/qt	>100	
Rheology Temp	°F		
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	% Wt		
Sulphite	mg/l		
PHPA	ppb		

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
MI Gel (Bulk)	1 MT BG	3.20

SOLIDS EQUIP	Size	Hr
Shaker 1	4 x 52	0
Shaker 2	3 x 52, 1 x 84	0
Shaker 3	4 x 84	0
Shaker 4	4 x 84	0
DFE-Centrifuge		0
D-Sander		0
D-Silter		0
Vacuum D-Gasser		0

MUD PROPERTY SPECIFICATIONS

Weight	1.03
Viscosity	> 100
Filtrate	NC

REMARKS AND TREATMENT

Mixed Gel as required. Used 1281 bbl for sweeps, 730 bbl for displacement. Left with 210 bbl gel for drilling cement. Mixed 14 bags KCl in Pit 5 in preparation for mixing polymer mud. This will be charged off in next section.

REMARKS

Drilled cement/shoe. Drilled ahed 17.5 inch hole to 355 m using 50+70 bbl Gel sweeps. Swept hole with 150 bbl at TD. Displace hole with 350 bbl PHG. Survey. Wiper trip. Displace hole with 350 bbl PHG. POOH. Run casing.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service		Oil Added	0	NaCl	/	np/na Values	
Drilling	7.5	Water Added	720	KCl	/	kp/ka (lb•s^n/100ft²)	
Tripping	4	Mud Received	0	Low Gravity	/	Bit Loss (psi / %)	
Non-Productive Tim		Dumped	35	Bentonite	/	Bit HHP (hhp / HSI)	
Running Casing	5	Shakers	0	Drill Solids	/	Bit Jet Vel (ft/s)	
Cementing	2.5	Formation	0	Weight Material	NA/ NA	Ann. Vel DP (ft/min)	
Wait on Cement	5	Left in Hole	0	Chemical Conc	- /	Ann. Vel DC (ft/min)	
		Sweeps	1281	Inert/React		Crit Vel DP (ft/min)	
		Displacement	730	Average SG		Crit Vel DC (ft/min)	
		Left Behind Casing	0	Carb/BiCarb (m mole/L)	/		

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Jasdeep Singh Mark Duff 08-9302 3790			$ 999.62	$ 18,332.67

WATER-BASED MUD REPORT No. 4

Date	18/10/2005	**Depth/TVD**	355 m / 355 m
Spud Date	16/10/2005	**Mud Type**	SW/Gel Sweeps
Water Depth	57	**Activity**	Run BOP stack

Operator : Bass Strait Oil Co
Report For : Peter Dane/ Simon Rodda
Well Name : Maclean-1
Contractor : Diamond Offshore
Report For : Paul Baker/Troy Williams

Field/Area : Gippsland Basin
Description : Vertical Exploration
Location : Vic/P47
M-I Well No. : 28764

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 17.5 in		Surface	Hole	Pump Make	NATIONAL 12P-16	NATIONAL 12P-16(
Nozzles 1/32"		30in @111m (111TVD)	233	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
in	m	13.375in @350m (350TVD)		Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
in	m			Bottoms Up		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
in	m		101	Circulating Pressure		

MUD PROPERTIES

Sample From		21:30	
Flow Line Temp	°F		
Depth/TVD	m	350/350	
Mud Weight	sp.gr.	1.03	
Funnel Viscosity	s/qt	>100	
Rheology Temp	°F		
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	% Wt		
Sulphite	mg/l		
PHPA	ppb		

PRODUCTS USED LAST 24 HRS

Products	Size	Amt

SOLIDS EQUIP	Size	Hr
Shaker 1	4 x 52	0
Shaker 2	3 x 52, 1 x 84	0
Shaker 3	4 x 84	0
Shaker 4	4 x 84	0
DFE-Centrifuge		0
D-Sander		0
D-Silter		0
Vacuum D-Gasser		0

MUD PROPERTY SPECIFICATIONS

Weight	1.03
Viscosity	> 100
Filtrate	NC

REMARKS AND TREATMENT

210 bbl PHG available for drilling cement. Blended 100 bbl PHG with new polymer mud to impart filtercake properties. Mixing 6% KCL/Polymer Mud using 0.5 ppb Magnafloc. Shakers dressed with 52/84 mesh screens.

REMARKS

Run casing to bottom. Cemented as per plan. WOC. Running BOP stack.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service	6	Oil Added	0	NaCl	/	np/na Values	
Drilling		Water Added	0	KCl	/	kp/ka (lb•s^n/100ft²)	
Tripping		Mud Received	0	Low Gravity	/	Bit Loss (psi / %)	
Non-Productive Tim		Dumped	0	Bentonite	/	Bit HHP (hhp / HSI)	
Wait on Cement	6	Shakers	0	Drill Solids	/	Bit Jet Vel (ft/s)	
BOP Testing	12	Formation	0	Weight Material	NA/ NA	Ann. Vel DP (ft/min)	
		Left in Hole	0	Chemical Conc	- /	Ann. Vel DC (ft/min)	
		Sweeps	210	Inert/React		Crit Vel DP (ft/min)	
		Displacement	0	Average SG		Crit Vel DC (ft/min)	
		Left Behind Casing	0	Carb/BiCarb (m mole/L)	/		

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Jasdeep Singh Mark Duff 08-9302 3790			$ 0.00	$ 18,332.67

WATER-BASED MUD REPORT No. 5

Date	19/10/2005	**Depth/TVD**	675 m / 675 m
Spud Date	16/10/2005	**Mud Type**	KCl/Polymer
Water Depth	57	**Activity**	Drill 12.25" Hole

Operator : Bass Strait Oil Co
Report For : Ron King/ Simon Rodda
Well Name : Maclean-1
Contractor : Diamond Offshore
Report For : Paul Baker/Troy Williams

Field/Area : Gippsland Basin
Description : Vertical Exploration
Location : Vic/P47
M-I Well No. : 28764

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 12.25 in EHP41HKPR		Surface	Hole	Pump Make	NATIONAL 12P-16(	NATIONAL 12P-16(
Nozzles 24x3 /28x1 / 1/32"		30in @111m (111TVD)	349.9	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	418 m	13.375in @350m (350TVD)	402.1	Pump stk/min	77@97%	77@97%
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	987 gal/min	
5 in	143 m	in @766m (766TVD)	752	Bottoms Up	13.5 min	3127 stk
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	32 min	7392 stk
8 in	114 m		378	Circulating Pressure	1400 psi	

MUD PROPERTIES

Sample From		Pit #3@21:00	Pit 3@16:00
Flow Line Temp	°F	95	95
Depth/TVD	m	655/655	550/550
Mud Weight	sp.gr.	1.06@80°F	1.05+@80°F
Funnel Viscosity	s/qt	60	53
Rheology Temp	°F	120	120
R600/R300		54/39	47/35
R200/R100		33/25	30/22
R6/R3		10/8	8/6
PV	cP	15	12
YP	lb/100ft²	24	23
10s/10m/30m Gel	lb/100ft²	7/10/16	7/11/14
API Fluid Loss	cc/30 min	5	7.5
HTHP FL Temp	cc/30 min		
Cake API/HTHP	1/32"	1/	<1/
Solids	%Vol	3	4
Oil/Water	%Vol	/97	/96
Sand	%Vol	0.5	0.5
MBT	lb/bbl	5	6
pH		10	9.5
Alkal Mud (Pm)		0.4	0.7
Pf/Mf		0.2/0.4	0.3/1.0
Chlorides	mg/l	39000	30000
Hardness Ca	mg/l	440	200
KCl	% Wt	6	6
Sulphite	mg/l	20	20
PHPA	ppb	0.9	0.85

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
DEFOAM A	5 GA CN	5.00
DUO-VIS	25 KG BG	38.00
OS-1	25 KG BG	8.00
POLYPAC UL	25 KG BG	47.00
SODA ASH	25 KG BG	5.00
SODIUM BICARBONATE	25 KG BG	4.00
POTASSIUM HYDROXIDE	25 KG CN	7.00
KCl BB	1 MT BG	16.00
MI Gel (Bulk)	1 MT BG	13.50
MAGNAFLOC 5250	25 KG BG	25.00

SOLIDS EQUIP	Size	Hr
Shaker 1	4 x 110	16
Shaker 2	2 x 165, 2 x 84	16
Shaker 3	4 x 84	16
Shaker 4	4 x 84	16
DFE-Centrifuge		0
D-Sander		0
D-Silter		0
Vacuum D-Gasser		0

MUD PROPERTY SPECIFICATIONS

Weight	1.07
Viscosity	40-60
Filtrate	5

REMARKS AND TREATMENT

Mud flowed OK over 52/84 mesh shakers on displacement. Gradually upgraded 52 mesh shaker screens to 110 & 84. Occasional losses at shakers. Treated system with Duovis/PAC/SodaAsh/OS-1/Magnafloc/KOH to tighten fluid properties. Cuttings well encapsulated & good integrity.

REMARKS

Madeup BHA and drilled out shoe/cement with SW & Gel sweeps. Displaced hole to 8.65 ppg KCl/Polymer mud and conducted FIT to x.xx ppg. Drilled ahead to midnight depth of 675m.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service		Oil Added	0	NaCl	.7/ 8.1	np/na Values	0.469/0.325
Drilling	17	Water Added	1227	KCl	1.9/ 17.7	kp/ka (lb•s^n/100ft²)	2.227/5.024
Tripping	3	Mud Received	0	Low Gravity	.9/ 8.	Bit Loss (psi / %)	22659 / 1618.5
Non-Productive Tim		Dumped	0	Bentonite	.5/ 5.	Bit HHP (hhp / HSI)	13048 / 110.7
Drill Floats/Cmt	3.5	Shakers	263	Drill Solids	.3/ 3.	Bit Jet Vel (ft/s)	1692
Displace Well	0.5	Formation	0	Weight Material	NA/ NA	Ann. Vel DP (ft/min)	193.43
		Left in Hole	0	Chemical Conc	- / .	Ann. Vel DC (ft/min)	281.09
		Sweeps	0	Inert/React	.6099	Crit Vel DP (ft/min)	351
		Displacement	0	Average SG	2.6	Crit Vel DC (ft/min)	390
		Left Behind Casing	0	Carb/BiCarb (m mole/L)	3.9/ 2.	ECD @ 675 (sp.gr.)	1.09

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Jasdeep Singh Mark Duff 08-9302 3790			$ 28,608.69	$ 46,941.36

WATER-BASED MUD REPORT No. 6

Date	20/10/2005	**Depth/TVD**	766 m / 766 m
Spud Date	16/10/2005	**Mud Type**	KCl/Polymer
Water Depth	57	**Activity**	P&A

Operator : Bass Strait Oil Co
Report For : Ron King/ Simon Rodda
Well Name : Maclean-1
Contractor : Diamond Offshore
Report For : Paul Baker/Troy Williams

Field/Area : Gippsland Basin
Description : Vertical Exploration
Location : Vic/P47
M-I Well No. : 28764

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 12.25 in EHP41HKPR		Surface	Hole	Pump Make	NATIONAL 12P-16	NATIONAL 12P-16(
Nozzles 24x3 /28x1 / 1/32"		30in @111m (111TVD)	429.6	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	m	13.375in @350m (350TVD)	427.4	Pump stk/min	77@97%	77@97%
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	987 gal/min	
5 in	143 m	in @766m (766TVD)	427.4	Bottoms Up	min 0 stk	
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	18.2 min 4201 stk	
8 in	114 m		201	Circulating Pressure	1400 psi	

MUD PROPERTIES

Sample From		Pit 3@15:00	Pit 3@03:30
Flow Line Temp	°F	95	95
Depth/TVD	m	766/766	725/725
Mud Weight	sp.gr.	1.09@80°F	1.09@80°F
Funnel Viscosity	s/qt	67	72
Rheology Temp	°F	120	120
R600/R300		57/42	54/39
R200/R100		36/27	33/25
R6/R3		10/8	11/8
PV	cP	15	15
YP	lb/100ft²	27	24
10s/10m/30m Gel	lb/100ft²	8/14/17	8/11/18
API Fluid Loss	cc/30 min	4.6	5
HTHP FL Temp	cc/30 min		
Cake API/HTHP	1/32"	1/	1/
Solids	%Vol	4	2
Oil/Water	%Vol	/96	/98
Sand	%Vol	2	1
MBT	lb/bbl	8	7
pH		8.5	9
Alkal Mud (Pm)		0.3	0.4
Pf/Mf		0.03/0.6	0.2/0.4
Chlorides	mg/l	38000	39000
Hardness Ca	mg/l	400	400
KCl	% Wt	7	6.5
Sulphite	mg/l	0	20
PHPA	ppb	0.9	0.9

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
DUO-VIS	25 KG BG	5.00
KCl BB	1 MT BG	3.00

SOLIDS EQUIP	Size	Hr
Shaker 1	4 x 110	6
Shaker 2	2 x 165, 2 x 84	6
Shaker 3	4 x 84	6
Shaker 4	4 x 84	6
DFE-Centrifuge		0
D-Sander		0
D-Silter		0
Vacuum D-Gasser		0

MUD PROPERTY SPECIFICATIONS

Weight	1.07
Viscosity	40-60
Filtrate	5

REMARKS AND TREATMENT

Conditioned mud to required properties during drilling. Mixed hivis pill for cement plug.

REMARKS

Drilled on to TD of 766 m. Circulated hole clean. P/O to shoe. Circulated at shoe. POOH. Laid down BHA. RIH with OEDP. Placed cement plug 1a from 766m to 666m. Circulated bottoms up. Pumped Cement plug 1b from 666m to 566m. Circulated bottoms up. Pumped cement plug 2 from 400m to 300m. circulated bottoms up. WOC

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service		Oil Added	0	NaCl	.1/ 1.8	np/na Values	
Drilling	6	Water Added	0	KCl	2.7/ 24.7	kp/ka (lb•s^n/100ft²)	
Tripping	4	Mud Received	0	Low Gravity	3.1/ 28.3	Bit Loss (psi / %)	
Non-Productive Tim		Dumped	0	Bentonite	.9/ 8.	Bit HHP (hhp / HSI)	
Condition Mud	2	Shakers	113	Drill Solids	1.9/ 17.3	Bit Jet Vel (ft/s)	
Displace Well		Formation	0	Weight Material	NA/ NA	Ann. Vel DP (ft/min)	
Cementing	8	Left in Hole	0	Chemical Conc	- / 3.	Ann. Vel DC (ft/min)	
Wait on Cement	4	Sweeps	0	Inert/React	2.1679	Crit Vel DP (ft/min)	
		Displacement	0	Average SG	2.6	Crit Vel DC (ft/min)	
		Left Behind Casing	0	Carb/BiCarb (m mole/L)	.6/ 9.5		

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Jasdeep Singh Mark Duff 08-9302 3790			$ 2,585.58	$ 49,526.94

WATER-BASED MUD REPORT No. 7

Date	21/10/2005	**Depth/TVD**	766 m / 766 m
Spud Date	16/10/2005	**Mud Type**	KCl/Polymer
Water Depth	57	**Activity**	P & A

Operator : Bass Strait Oil Co
Report For : Ron King/ Simon Rodda
Well Name : Maclean-1
Contractor : Diamond Offshore
Report For : Paul Baker/Troy Williams

Field/Area : Gippsland Basin
Description : Vertical Exploration
Location : Vic/P47
M-I Well No. : 28764

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 12.25 in EHP41HKPR		Surface	Hole	Pump Make	NATIONAL 12P-16	NATIONAL 12P-16
Nozzles 24x3 /28x1 / 1/32"		30in @111m (111TVD)	429.6	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size in	Length m	Intermediate	Active Pits	Pump Cap	4.274 gal/stk	4.274 gal/stk
		13.375in @350m (350TVD)	-118.6	Pump stk/min	77@97%	77@97%
Drill Pipe Size in	Length m	Intermediate	Total Circulating Vol	Flow Rate	987 gal/min	
			-118.6	Bottoms Up	min 0 stk	
Drill Collar Size in	Length m	Production or Liner	In Storage	Total Circ Time	-5 min	-1166 stk
			1	Circulating Pressure	1400 psi	

MUD PROPERTIES

Sample From		Pit 3@06:00	
Flow Line Temp	°F		
Depth/TVD	m	766/766	
Mud Weight	sp.gr.	1.09@70°F	
Funnel Viscosity	s/qt	75	
Rheology Temp	°F	120	
R600/R300		63/48	
R200/R100		41/32	
R6/R3		9/7	
PV	cP	15	
YP	lb/100ft²	33	
10s/10m/30m Gel	lb/100ft²	12/17/19	
API Fluid Loss	cc/30 min	4.8	
HTHP FL Temp	cc/30 min		
Cake API/HTHP	1/32"	1/	
Solids	%Vol	5	
Oil/Water	%Vol	/95	
Sand	%Vol	1.5	
MBT	lb/bbl	9	
pH		10.5	
Alkal Mud (Pm)		1.2	
Pf/Mf		0.3/1	
Chlorides	mg/l	37000	
Hardness Ca	mg/l	480	
KCl	% Wt	7	
Sulphite	mg/l		
PHPA	ppb	1	

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
GLUTE 25	25 LT CN	2.00
MI Gel (Bulk)	1 MT BG	.30
SAFE-COR	55 GA DM	1.00

SOLIDS EQUIP	Size	Hr
Shaker 1	4 x 110	6
Shaker 2	2 x 165, 2 x 84	6
Shaker 3	4 x 84	6
Shaker 4	4 x 84	6
DFE-Centrifuge		0
D-Sander		0
D-Silter		0
Vacuum D-Gasser		0

MUD PROPERTY SPECIFICATIONS

Weight	1.07
Viscosity	40-60
Filtrate	5

REMARKS AND TREATMENT

Mixed Inhibited mud for displacement above the 2nd plug. Dumped all mud after final plug set. Dump and clean pits.

REMARKS

Tagged Plug#2 at 274 m. Displaced with 120 bbl of inhibited mud. Set Plug#3. Dumped returns. Unlatched BOP stack & 30" well head housing.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service		Oil Added	0	NaCl	.1/ 1.2	np/na Values	
Drilling		Water Added	0	KCl	2.7/ 24.8	kp/ka (lb•s^n/100ft²)	
Tripping		Mud Received	0	Low Gravity	2.9/ 26.	Bit Loss (psi / %)	
Non-Productive Tim		Dumped	909	Bentonite	1./ 9.	Bit HHP (hhp / HSI)	
Plug and Abandon	24	Shakers	0	Drill Solids	1.5/ 14.	Bit Jet Vel (ft/s)	
		Formation	0	Weight Material	NA/ NA	Ann. Vel DP (ft/min)	
		Left in Hole	119	Chemical Conc	- / 3.	Ann. Vel DC (ft/min)	
		Sweeps	0	Inert/React	1.5596	Crit Vel DP (ft/min)	
		Displacement	0	Average SG	2.6	Crit Vel DC (ft/min)	
		Left Behind Casing	0	Carb/BiCarb (m mole/L)	5.7/ .9		

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Jasdeep Singh Mark Duff 08-9302 3790			$ 549.38	$ 50,076.32

APPENDIX 10

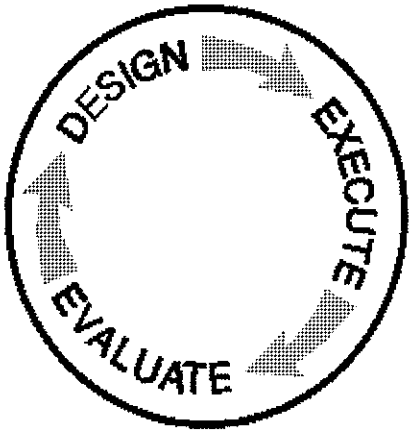
CEMENTING END of WELL REPORT

(By Dowell Schlumberger)

Schlumberger

Cementing End Of Well Report

Maclean 1



Rig	:	Ocean Patriot
Well Type	:	Exploration
Customer	:	Bass Strait Oil and Gas
Prepared by	:	Mark James

e-mail mjames@perth.oilfield.slb.com
Tel (61) 8 9420 4843
Fax (61) 8 9322 3110

Date	:	November 24 2005

Contents

Well Summary

Client Representatives 3
Dowell Service Supervisors 3
Cement Job Summary 4
Miscellaneous Pumping & Pressure Testing 5

Job Design & Execution Summary

30" Conductor 6
13 3/8" Casing 7
12 ¼" P&A 8

Job Reports

Laboratory Reports 10
Service Reports 14

Well Summary

Client Representative			
No	First Name	Last Name	Position
1	Peter	Dane	Drilling Supervisor
2	Ron	King	Drilling Supervisor
3	Simon	Rodda	Drilling Supervisor

Dowell Supervisor			
No	First Name	Last Name	Position
1	Edgardo	Llagas	Service Supervisor
2	Wayne	Comben	Service Supervisor
3	Ameer	Moustafa	Cementing Assistant
4	Peter	Mew	Service Supervisor

Cement Job Summary

Date	Job Type	Material/Fluid Used			Cement Slurry		Displacement		Spacer		Cement	Plugs	
		Material	Con.	Quantity	Density	Volume	Fluid	Volume	Type	Volume	Head	Top	Bottom
16-Oct-05	30" Casing	G Cement D047 S001 Dye	- 0.01 gal/sk 1.0% BWOC -	855 sx 11 gal 805 lb 1kg	15.8 ppg	180 bbl	SW	29 bbl	SW	20 bbl			
17-Oct-05	13 3/8 Casing	G Cement D047 D75 D047	- 0.01 gal/sk 0.42 gal/sk 0.01 gal/sk	815 sx 5 gal 140 gal 3 gal	12.5 ppg 15.8 ppg	130 bbl 101 bbl	SW	10 bbl Rig Pumps	SW	20 bbl	DSE	1	1
20-Oct-05	Plug 1A	G Cement D047 D145A D193	 0.01 gps 0.035 gps 0.25 gps	310 sx 3 gal 11 gal 89 gal	15.8 ppg	63 bbl	SW Mud	1.5 bbl 34 bbl	SW	10 bbl			
20-Oct-05	Plug 1B	G Cement D47 D145A D193	 0.01 gps 0.035 gps 0.25 gps	310sx 3 gal 11 gal 89 gal	15.8 ppg	63 bbl	SW Mud	1.5 bbl 25 bbl	SW	10 bbl			
12-Oct-05	Plug 2	G Cement D047	 0.01 gps	320 sx 3.5 gal	15.8 ppg	54 bbl	SW Mud	0.5 bbl 8.5 bbl	SW	10 bbl			
12-Oct-05	Plug 3	G Cement D047	 0.01 gps	125 sx 2 gal	15.8 ppg	30 bbl	SW Mud	1.5 bbl 4 bbl	SW	10 bbl			

Miscellaneous Pumping and Pressure Testing

Job	Job Started	Type of	Pressure	Job Finished
	Date	Fluid	Max, Psi	Date
Pressure Test Choke and Kill Manifold	15/10/2005	SW	3000	15/10/2005

END WELL REPORT
Maclean 1
JOB DESIGN & EXECUTION SUMMARY

36" HOLE / 30"" CASING

1.1 Drilling/Casing:

The 36" hole was drilled to a depth of 112m from seabed at 73 m with seawater and PHG sweeps. 30" Casing was run and set at 112m with a 5" DP inner string.

1.2 Design

Single 15.8ppg tail slurry was planned to provide strong cement at the 30" shoe:

Tail Slurry
G Cement:
Seawater: 5.313 gal/sk
D047 (antifoam): 0.01 gps
S001 (accelerator): 1.0 % BWOC
Density – 15.8 ppg
Yield – 1.19 cuft/sk
Slurry Volume – 180 bbls
TOC - Seabed
Open Hole Excess – 200%

1.3 Execution

While circulating with seawater after the casing was landed, a Job Hazard Analysis with the Rig Crews and Barge Captain was performed to inform them of their job role and the potential hazards that they may face.

Job Procedure:

1) Pump 10 bbl sea water with dye to fill lines.
2) Pressure test lines 2000psi.
3) Pump 10 bbl sea water with dye
4) Mix & pump 180 bbls of tail slurry @ 15.8ppg
5) Displace with 29 bbls seawater.
6) Bleed off pressure and check floats.

1.4 Evaluation

The job was then executed according to procedure.

17 1/2" HOLE / 13 3/8" CASING

2.1 Drilling/Casing:

17 1/2" hole was drilled to a total depth of 355 m with seawater and PHG sweeps.13 3/8" casing was run and set at 350m. A DeepSea EXPRES cement head was used for plug release.

2.2 Design:

Lead Slurry	Tail Slurry
G Cement	G Cement
Sea water: 12.718 gal/sk	Sea water: 5.324 gal/sk
D047 (antifoam): 0.01 gal/sk	D047 (antifoam): 0.01 gal/sk
D75 (extender): 0.42 gal/sk	
Density – 12.5 ppg	Density – 15.8 ppg
Yield – 2.23 cuft/sk	Yield – 1.18 cuft/sk
Slurry Volume – 130 bbl	Slurry Volume – 101 bbl

2.3 Execution:

After the casing was landed and cement line rigged up, a Job Hazard Analysis with the Rig Crews and Barge Captain was performed to inform them of their job role and the potential hazards that they may face.

Job Procedure:

1) Pump 10 bbl seawater with dye
2) Pressure test lines to 2000 psi
3) Drop bottom dart
4) Pump 10 bbl seawater with dye (Plug sheared after 4.5 bbl)
5) Mix & pump Lead slurry 130 bbls @ 12.5 ppg
6) Mix & pump Tail slurry 101 bbls @ 15.8 ppg
7) Drop top dart
8) Displace with 10 bbl seawater
9) Switch to rig pumps to continue displacement
10) Bump plug and hold for 10 minutes
11) Bleed off pressure and check floats ok.

2.4 Evaluation:

Job executed according to procedure with successful plug bump, however pressure was observed to fall off during while holding 1500psi after plug bump.

WELL ABANDONMENT

3.1 Well Abandonment

After completion of the 12 1/4" hole section and formation evaluation, the well was abandoned using cement plugs and a Baker K1 Bridge Plug.

3.2 Design:

Plug 1a	Plug 1b	Plug 2	Plug 3
G Cement	G Cement	G Cement	G Cement
Drill water: 4.847 gal/sk	Drill water: 4.847 gal/sk	Sea Water: 5.324 gal/sk	Sea Water: 5.324 gal/sk
D047 (antifoam): 0.01 gal/sk	D047 (antifoam): 0.01 gal/sk	D047 (antifoam): 0.01 gal/sk	D047 (antifoam): 0.01 gal/sk
D145A (dispersant): 0.035 gal/sk	D145A (dispersant): 0.035 gal/sk		
D193 (fluid loss): 0.25 gal/sk	D193 (fluid loss): 0.25 gal/sk		
Density – 15.8 ppg	Density – 15.8 ppg	Density – 15.8 ppg	Density – 15.8 ppg
Yield – 1.16 cuft/sk	Yield – 1.16 cuft/sk	Yield – 1.18 cuft/sk	Yield – 1.18 cuft/sk
Slurry Volume – 63 bbl	Slurry Volume – 63 bbl	Slurry Volume – 65 bbl	Slurry Volume – 26 bbl

3.3 Execution:

Before each job a Job Hazard Analysis with the Rig Crews and Barge Captain was performed to inform them of their job role and the potential hazards that they may face.

Job Procedure Plug 1a:

1) Pump 5 bbl water
2) Pressure test lines to 1000 psi
3) Pump 5 bbl water
4) Mix & Pump slurry 63 bbls @ 15.8 ppg
5) Pump 1.5 bbl water.
6) Displace with 34 bbl mud

Job Procedure Plug 1b:

1) Pump 5 bbl water.
2) Pressure test lines to 1000 psi
3) Pump 5 bbl water
4) Mix & Pump slurry 63 bbls @ 15.8 ppg
5) Pump 1.5 bbl drill water.
6) Displace with 25 bbl mud

Job Procedure Plug 2:

1) Pump 5 bbl sea water.
2) Pressure test lines to 1000 psi
3) Pump 5 bbl sea water
4) Mix & Pump slurry 65 bbls @ 15.8 ppg
5) Pump 1.5 bbl sea water.
6) Displace with 8.5 bbl mud

Job Procedure Bridge Plug:

1) RIH with 13 3/8" bridge plug on mechanical setting tool to depth of 148m
2) Set plug at 148m
3) Pressure test plug to 1000 psi

4) POOH with setting tool

Job Procedure Plug 3:

1) Pump 5 bbl sea water.
2) Pressure test lines to 1000 psi
3) Pump 5 bbl drill water
4) Mix & Pump slurry 26 bbls @ 15.8 ppg
5) Pump 1.5 bbl sea water.
6) Displace with 4 bbl mud

3.4 Evaluation

The jobs were performed as per design and procedure. Plugs placed successfully.

Schlumberger

Section 1: Laboratory Cement Test Report-Maclean-1 30"

Well Data

						Signatures
Fluid No	**: AUPT 659001**	Client	: Bass Strait Oil	Location / Rig	: Ocean Patriot	
Date	: Oct-01-2005	Well Name	: Maclean-1	Field	: Casing	

Job Type	Conductor	Depth	110.0 m	TVD	105.0 m
BHST	17 degC	BHCT	26 degC	BHP	329 psi
Starting Temp.	27 degC	Time to Temp.	00:01 hr:mn	Heating Rate	0.00 degF/min
Starting Pressure	35 psi	Time to Pressure	00:01 hr:mn	Schedule	( )

Composition

Density	**15.80 lb/gal**	**Yield**	**1.19 ft3/sk**	**Mix Fluid**	**5.323 gal/sk**
Porosity	59.8 %	Solid Fraction	40.2 %	Slurry type	( )

Code	Concentration	Component	Lot Number
G		Blend	Rig
Sea water	5.313 gal/sk	Base Fluid	Rig
D047	0.010 gal/sk	ANTIFOAM	Dampier
S001	1.000 %BWOC	ACCELERATOR	Dampier

Rheology (Average readings)

(rpm)	(deg)
300	66.0
200	56.5
100	41.0
6	18.5
3	13.5

10 sec Gel	20
10 min Gel	28
Temperature	27 degC

k : 2.57E-2
lbf.s^n/ft2
n : 0.500
Ty : 9.98 lbf/100ft2

Thickening Time

Consistency	Time
40 Bc	02:20 hr:mn
100 Bc	03:38 hr:mn
(Bc)	(hr:mn)

Remark : Thickening time do not include batch time

Comments

General Comment :
Fann Reading Comment :
Thickening Time Comment :
Other test Comment : ; ; ; ;

Schlumberger

Laboratory Cement Test Report-Maclean-1 1338 Lead

						Signatures
Fluid No	**: AUPT 778002**	Client	: BSOG	Location / Rig	: Ocean Patriot	
Date	: Oct-17-2005	Well Name	: Maclean-1	Field	: Maclean	Paul

Job Type	Casing	Depth	355.0 m	TVD	355.0 m
BHST	30 degC	BHCT	26 degC	BHP	700 psi
Starting Temp.	(degC)	Time to Temp.	00:14	Heating Rate	(degF/min)
Starting Pressure	(psi)	Time to Pressure	00:14	Schedule	( )

Composition

Density	**12.50 lb/gal**	**Yield**	**2.23 ft3/sk**	**Mix Fluid**	**13.148 gal/sk**
Porosity	78.9 %	Solid Fraction	21.1 %	Slurry type	**Conventional**

Code	Concentration	Sack Reference	Component	Absolute Density	Lot Number
G		94 lb of Class G Cmt	Class G Cmt	199.77 lb/ft3	Rig
Sea water	12.718 gal/sk		Base Fluid		Rig
D047	0.010 gal/sk		antifoam		Lab
D075	0.420 gal/sk		extender		Lab

Rheology (Average readings)

(rpm)	(deg)	(deg)
300	28.0	
200	21.5	
100	18.5	
60	15.5	
30	12.5	
6	10.5	
3	3.0	
10 sec Gel	11	
10 min Gel	16	
Temperature	27 degC	(degC)

Pv: 16.286 cP	k : (lbf.s^n/ft2)
Ty: 11.80 lbf/100ft2	n : ( )
	Ty: (lbf/100ft2)

Thickening Time

Consistency	Time
40 Bc	05:12 hr:mn
70 Bc	06:16 hr:mn
100 Bc	07:21 hr:mn

Remark : Thickening time do not include batch time

Comments

General Comment :
Fann Reading Comment :
Thickening Time Comment :
Other test Comment : ; ; ; ;

Schlumberger

Laboratory Cement Test Report-Maclean-1 13 3/8 Tail

						Signatures
Fluid No	**: AUPT 778001**	Client	: BSOG	Location / Rig	: Ocean Patriot	
Date	: Oct-17-2005	Well Name	: Maclean-1	Field	: Maclean	Paul

Job Type	Casing	Depth	355.0 m	TVD	355.0 m
BHST	30 degC	BHCT	26 degC	BHP	700 psi
Starting Temp.	(degC)	Time to Temp.	00:14	Heating Rate	(degF/min)
Starting Pressure	(psi)	Time to Pressure	00:14	Schedule	( )

Composition

Density	**15.80 lb/gal**	**Yield**	**1.18 ft3/sk**	**Mix Fluid**	**5.334 gal/sk**
Porosity	60.2 %	Solid Fraction	39.8 %	Slurry type	**Conventional**

Code	Concentration	Sack Reference	Component	Absolute Density	Lot Number
G		94 lb of Class G Cmt	Class G Cmt	199.77 lb/ft3	Rig
Sea water	5.324 gal/sk		Base Fluid		Rig
D047	0.010 gal/sk		antifoam		Lab

Rheology (Average readings)

(rpm)	(deg)	(deg)
300	111.0	
200	93.5	
100	75.0	
60	61.5	
30	53.5	
6	23.0	
3	20.0	
10 sec Gel	21	
10 min Gel	26	
Temperature	27 degC	(degC)

Pv : 63.875 cP Ty : 49.46 lbf/100ft2	k : (lbf.s^n/ft2) n : ( ) Ty : (lbf/100ft2)

Thickening Time

Consistency	Time
40 Bc	03:02 hr:mn
70 Bc	03:56 hr:mn
100 Bc	04:21 hr:mn

Remark : Thickening time do not include batch time

Comments

General Comment :
Fann Reading Comment :
Thickening Time Comment :
Other test Comment : ; ; ; ;

NOTE: This design was also used for Plug 2 and 3

Schlumberger

Laboratory Cement Test Report- Maclean-1 Plug-1a and 1b

						Signatures
Fluid No	**: AUPT 768001**	Client	: BSOG	Location / Rig	: Ocean Patriot	
Date	: Sep-20-2005	Well Name	: Maclean-1	Field	: Plug	Paul

Job Type	Plug	Depth	775.0 m	TVD	910.0 m
BHST	60 degC	BHCT	38 degC	BHP	1412
Starting Temp.	(degC)	Time to Temp.	00:25	Heating Rate	(degF/min)
Starting Pressure	(psi)	Time to Pressure	00:25	Schedule	( )

Composition

Density	**15.80 lb/gal**	**Yield**	**1.16 ft3/sk**	**Mix Fluid**	**5.142 gal/sk**
Porosity	59.4 %	Solid Fraction	40.6 %	Slurry type	**Conventional**

Code	Concentration	Sack Reference	Component	Blend Density	Lot Number
G		94 lb of BLEND	Blend	199.77 lb/ft3	Rig
Fresh water	4.847 gal/sk		Base Fluid		Rig
D047	0.010 gal/sk		antifoam		Lab
D193	0.250 gal/sk		fluid loss		Lab
D145A	0.035 gal/sk		dispersant		Lab

Rheology (Average readings)

(rpm)	(deg)	(deg)
300	42.0	72.0
200	31.5	53.0
100	19.5	34.0
60	14.0	26.0
30	9.5	19.5
6	6.5	9.5
3	6.0	8.5
10 sec Gel	7	8
10 min Gel	18	11
Temperature	27 degC	38 degC
	Pv: 36.289 cP Ty: 6.65 lbf/100ft2	Pv: 58.205 cP Ty: 14.16 lbf/100ft2

Thickening Time

Consistency	Time
40 Bc	02:45 hr:mn
70 Bc	03:03 hr:mn
100 Bc	03:21 hr:mn
Remark : Thickening time do not include batch time	

Fluid Loss

API Fluid Loss			80	mL
40 mL in	30 min	at 38 degC		and (psi)

Comments

General Comment :
Fann Reading Comment :
Thickening Time Comment :
Other test Comment : ; ; ; ;

DISTRICT	STATION	TYPE SERVICE	COMPANY	**Schlumberger**
APG		*Choke Manifold Test*	*Bass Strait Oil Co.*	
RIG		TYPE OF WELL	FIELD	WELL No. / SERVICE REPORT
Ocean Patriot		*Appraisal*		*Maclean 1*

TIME AND DATE JOB STARTED	TOTAL DEPTH	SIZE HOLE	DEVIATION	BHST	BHCT	INVOICE NUMBER
03:22 15.10.05						

TIME & DATE JOB COMPLETED	DRILL FLUID			FORMATION	SIR NUMBER
11:06 15.10.05	Type	Wt.	Vis		

Casing							Previous Casing		
Size	Depth	Type	Wt.	Volume	Allowable Press.	Collar at	TOP	Bottom	Size

Completion							BRIDGE PLUG		TAIL PIPE	
Size	Depth	Type	Wt.	Packer @	top	Shoe Depth	Type	Depth	Type	Depth

CASING EQUIPMENT USED					CEMENT HEAD	MUD CIRCULATION PRIOR TO JOB		
SHOE Float Stab	COLLAR Float Stab	PLUGS Top	Bottom	CENT. Qty. Type		Time - Min.	Vol. BBLS	Press - PSI

WASH			SPACER										
Wt.	Vol. BBLS	Fill	Wt.	Vol. BBLS	Fill	Wt.	Vol.	Mix Water	Fill	Wt.	Vol.	Mix Water	Fill

EQUIPMENT							DURING JOB WAS PIPE	PARAMETERS RECORDED: ON:				MUD RETURNS
LAS	Pump	Batch	Compressor		Pump Unit S/No.		Rotated					LOST DURING JOB
LPJ	Unit	Mixer	RCM				Reciprocated	Press	Rate	Vol	Qty	Recorder BBLS

LEAD SLURRY	TAIL SLURRY	MATERIALS USED

TIME	PRESSURE Low	PRESSURE High	VOLUME BBL	VOLUME BPM	LT MIN	RECORD OF SERVICE
03:22	250	3000				Test # 1- 1,2,5,29,30,31,32
03:52	250	3,000				Test # 2 - 1,2,5,25,26,27,28
04:18	250	3,000				Test # 3 - 1,2,5,17,18,19
04:41	250	3,000				Test # 4 - 3,4,6,11,12,15,16
05:06	250	3,000				Test # 5 - 7,15,16,4
05:28	250	3,000				Test # 6 - 8,15,16,4
05:52	250	3000				Test # 7 - 9
07:10	250	3,000				Upper IBOP - Leaking, No test
07:45	250	3,000				Lower IBOP - OK
08:10						Retest Upper IBOP - Leaking , No test
						Standpipe manifold
09:09	250	3000				Test on valves # 7,8,9,10,3,2
09:36	250	3000				Test on valves # 7,8,6,5,2
09:55	250	3,000				Test on valves 7,8,6,4
10:15	250	3000				Test on valve # 1, Kelly hose, Swivel packing
10:35	250	3,000				Test on TIW valve # 1
10:53	250	3,000				Test on TIW valve # 2
11:06	250	3,000				Test on TIW Valve # 3
02:03	250	3000				Test on Upper IBOP

No. OF DS PERSONNEL ON JOB	STEM1 DONE? YES X NO	TOTAL LOST TIME H	TOTAL OPERATING TIME 9 H
SUP S.S 1 MECH F.E HEL	CUSTOMER COMMENTS	DS REPRESENTATIVE Edgardo Llagas	
QUALITY OF SERVICE GOOD SATISFACTORY POOR		CUSTOMER REPRESENTATIVE Peter Dane / Simon Rodda	

DISTRICT	STATION	TYPE SERVICE	COMPANY	**Schlumberger**
APG		*30" Casing Job*	*Bass Strait Oil Co.*	

RIG	TYPE OF WELL	FIELD	WELL No.	SERVICE REPORT
Ocean Patriot	*Appraisal*		*Maclean 1*	

TIME AND DATE JOB STARTED	TOTAL DEPTH	SIZE HOLE	DEVIATION	BHST	BHCT	INVOICE NUMBER
11:15 16.10.05	112m					

TIME & DATE JOB COMPLETED	DRILL FLUID			FORMATION	SIR NUMBER
12:20 16.10.05	Type	Wt.	Vis		

Casing							Previous Casing		
30" Size	112m Depth	X52 Type	725 Wt.	Volume	Allowable Press.	Collar at	TOP	Bottom	Size

Completion							BRIDGE PLUG		TAIL PIPE	
Size	Depth	Type	Wt.	Packer @	top	Shoe Depth	Type	Depth	Type	Depth

CASING EQUIPMENT USED					CEMENT HEAD	MUD CIRCULATION PRIOR TO JOB		
SHOE Float Stab	COLLAR Float Stab	PLUGS Top	Bottom	CENT. Qty. Type		Time - Min.	Vol. BBLS	Press - PSI

WASH			SPACER										
Wt.	Vol. BBLS	Fll	8.3ppg Wt.	20bbls Vol. BBLS	Fll	Wt.	Vol.	Mix Water	Fill	15.8ppg Wt.	180 bbls Vol.	107bbls Mix Water	112m Fill

EQUIPMENT								DURING JOB WAS PIPE	PARAMETERS RECORDED: ON:				MUD RETURNS
	LAS	X	Pump		Batch		Compressor	Rotated	X	X	X	X	LOST DURING JOB
X	LPJ		Unit		Mixer		RCM	Reciprocated	Press	Rate	Vol	Qty	BBLS
Pump Unit S/No.											Prism Recorder		

LEAD SLURRY	TAIL SLURRY	MATERIALS USED
	Class"G"neat + 0.01gps D047 + 1% BWOC CaCl2 + 5.31gps Seawater @ 15.8ppg w/ 1.19cf/sk yield	D047 Antifoam = 10 gals

TIME	PRESSURE Low	PRESSURE High	VOLUME BBL	VOLUME BPM	LT MIN	RECORD OF SERVICE
11:15	32	146	10	6		Pump 10 bbls of Seawater with Flourescene dye as spacer
11:20		2,000				Pressure test line to 2000psi - Ok
11:24	32	132	10			Pump 10 bbls of Seawater with Flourescene dye as spacer
11:28	32	151	180	4.5		Mix and pump 180bbls of slurry @ 15.8ppg (Mix fluid = 107bbls)
12:13	68	251	29	6.5		Displace with 29bbls of Seawater
05:28	68	233				Bleed off and check return
12:20						End of job

No. OF DS PERSONNEL ON JOB	STEM1 DONE? YES X NO	TOTAL LOST TIME H	TOTAL OPERATING TIME 1 H
SUP SS 1 MECH FE HEL	CUSTOMER COMMENTS		DS REPRESENTATIVE Edgardo Llagas

QUALITY OF SERVICE GOOD SATISFACTORY POOR

CUSTOMER REPRESENTATIVE Peter Dane / Simon Rodda

DISTRICT	STATION	TYPE SERVICE	COMPANY	**Schlumberger**
APG		*13 3/8" Casing Job*	*Bass Strait Oil Co.*	
RIG		TYPE OF WELL	FIELD	WELL No. / SERVICE REPORT
Ocean Patriot		*Appraisal*		*Maclean 1*

TIME AND DATE JOB STARTED	TOTAL DEPTH	SIZE HOLE	DEVIATION	BHST	BHCT	INVOICE NUMBER
22:50 17.10.05	355m	17 1/2"				

TIME & DATE JOB COMPLETED	DRILL FLUID			FORMATION	SIR NUMBER
01:00 17.10.05	Type	Wt.	Vis		

Casing							Previous Casing		
13 3/8"	350m	L-80	68ppf	0.4912bbl/m		325.78m	TOP	Bottom	Size
Size	Depth	Type	Wt.	Volume	Allowable Press.	Collar at			

Completion							BRIDGE PLUG		TAIL PIPE	
Size	Depth	Type	Wt.	Packer @	top	Shoe Depth	Type	Depth	Type	Depth

CASING EQUIPMENT USED						CEMENT HEAD	MUD CIRCULATION PRIOR TO JOB		
SHOE x	COLLAR x	PLUGS x	x	CENT.		DSEH			
Float Stab	Float Stab	Top	Bottom	Qty.	Type		Time - Min.	Vol. BBLS	Press - PSI

WASH			SPACER										
			8.3ppg	20bbls		12.5ppg	130bbls	103bbls	149m	15.8ppg	101bbls	61bbls	125m
Wt.	Vol. BBLS	Fill	Wt.	Vol. BBLS	Fill	Wt.	Vol.	Mix Water	Fill	Wt.	Vol.	Mix Water	Fill

EQUIPMENT								DURING JOB WAS PIPE	PARAMETERS RECORDED:				ON:	MUD RETURNS
x	LAS	x	Pump		Batch		Compressor	Rotated	x	x	x	x		LOST DURING JOB
	LPJ		Unit		Mixer		RCM	Reciprocated	Press	Rate	Vol	Dty	Recorder	BBLS

Pump Unit S/No.

LEAD SLURRY	TAIL SLURRY	MATERIALS USED
Class"G" neat + 0.01gps D047 + 0.42gps D75 12.72gps Seawater @ 12.5ppg w/ 2.23cf/sk yield	Class"G"neat + 0.01gps D047 + 5.31gps Seawater @ 15.8ppg w/ 1.18cf/sk yield 1.19cf/sk yield	D047 Antifoam = 8 gals Flourescene dye = 1kg

TIME	PRESSURE Low	PRESSURE High	VOLUME BBL	VOLUME BPM	LT MIN	RECORD OF SERVICE
22:50	36	128	10	5		Pump 10bbls of Seawater with Flourescene dye as spacer
22:57		2,000				Pressure test line to 2000psi - Ok
23:05						Drop bottom dart
23:07	87	100	10	5		Pump 10bbls of Seawater with Flourescene dye. (Plug sheared after 4.5bbls)
23:13	27	274	130	5.5		Mix and pump 130 bbls of Cement Slurry @ 12.5ppg (Mix fluid = 103bbls)
23:44	50	256	101	5		Mix and pump 101 bbls of Cement Slurry @ 15.8ppg (Mix fluid = 61bbls)
00:07						Drop Top dart
00:11	64	2,800	10	6		Displace with 10 bbls of Seawater behind (Plug sheared after 4.5bbls)
00:15						Switch over to rig pump for final displacement
00:32		1500				Bump plug. Hold pressure for 10 minutes. Pressure leaked
00:47						Bleed off and check return. No back flow observed
01:00						End of job, WOC

No. OF DS PERSONNEL ON JOB				STEM1 DONE?	TOTAL LOST TIME	TOTAL OPERATING TIME
SUP		S.S	1	YES X NO	H	2 H
MECH		F.E.		HEL 1		

CUSTOMER COMMENTS

DS REPRESENTATIVE
Edgardo Llagas / Ameer Moustafa

QUALITY OF SERVICE GOOD SATISFACTORY POOR

CUSTOMER REPRESENTATIVE
Peter Dane / Simon Rodda

DISTRICT	STATION	TYPE SERVICE	COMPANY	Schlumberger
APG		Plug and Abandon 1a - 1b	Bass Strait Oil Co.	

RIG	TYPE OF WELL	FIELD	WELL No.	SERVICE REPORT
Ocean Patriot	Appraisal		Maclean 1	

TIME AND DATE JOB STARTED	TOTAL DEPTH	SIZE HOLE	DEVIATION	BHST	BHCT	INVOICE NUMBER
16:02 20.10.05	766m	12 1/4"				

TIME & DATE JOB COMPLETED	DRILL FLUID			FORMATION	SIR NUMBER
18:00 20.10.05	Type	Wt.	Vis		

Casing							Previous Casing		
13 3/8"	350m	L-80	68ppf	0.4912bbl/m		325.78m	TOP	Bottom	Size
Size	Depth	Type	Wt.	Volume	Allowable Press.	Collar at			

Completion							BRIDGE PLUG		TAIL PIPE	
Size	Depth	Type	Wt.	Packer @	top	Shoe Depth	Type	Depth	Type	Depth

CASING EQUIPMENT USED					CEMENT HEAD	MUD CIRCULATION PRIOR TO JOB		
SHOE	COLLAR	PLUGS		CENT.		Time - Min.	Vol. BBLS	Press - PSI
Float Stab	Float Stab	Top	Bottom	Qty. Type				

WASH			SPACER			Plug 1a				Plug 1b			
Wt.	Vol. BBLS	Fill	8.3ppg	10bbls	Fill	15.8ppg	62.4bbls	36bbls	100m	15.8ppg	62.4bbls	36bbls	100m
			Wt.	Vol. BBLS		Wt.	Vol.	Mix Water	Fill	Wt.	Vol.	Mix Water	Fill

EQUIPMENT							DURING JOB WAS PIPE	PARAMETERS RECORDED: ON:					MUD RETURNS
X	LAS	X	Pump		Batch		Compressor	Rotated	X	X	X	X	Prism	LOST DURING JOB
	LPJ		Unit		Mixer		RCM	Reciprocated	Press	Rate	Vol	Dty	Recorder	BBLS

Plug 1a	Plug 1b	MATERIALS USED
Class"G" neat + 4.847gps Seawater @ 15.8ppg w/ 1.16cf/sk yield	Class"G" neat + 4.847gps Seawater @ 15.8ppg w/ 1.16cf/sk yield	D193 = 20 gals

TIME	PRESSURE Low	PRESSURE High	VOLUME BBL	VOLUME BPM	LT MIN	RECORD OF SERVICE
						P & A 1a
16:02			5	3.5		Pump 5 bbls of Seawater ahead
16:10		1,000				Pressure test line to 1000psi
16:12			5	3.5		Pump 5 bbls of Seawater ahead as spacer
16:16			62.4	5		Mix and pump 62.4 bbls of cement slurry @ 15.8ppg
16:30			101	5		Pump 1.5 bbls of Seawater behind plug
16:31			34	7		Displace with 34 bbls of mud
16:39						CIP, Bleed off and check return
						P & A 1b
17:34			5	4		Pump 5 bbls of Seawater ahead
17:37		1000				Pressure test line to 1000psi
17:43			5	5.5		Pump 5 bbls of Seawater ahead as spacer
17:47			62.4	5		Mix and pump 62.4 bbls of cement slurry @ 15.8ppg
18:04			1.5	5		Pump 1.5 bbls of Seawater behind plug
18:05			25	7.4		Displace with 25 bbls of mud
18:10						CIP, Bleed off and check return

No. OF DS PERSONNEL ON JOB					STEM1 DONE? YES X NO	TOTAL LOST TIME H	TOTAL OPERATING TIME 2 H
SUP		S.S	2				
MECH		F.E		HEL 1			

CUSTOMER COMMENTS

DS REPRESENTATIVE

Edgardo Llagas / Wayne Comben

QUALITY OF SERVICE GOOD SATISFACTORY POOR

CUSTOMER REPRESENTATIVE

Ron King / Simon Rodda

DISTRICT	STATION	TYPE SERVICE	COMPANY	Schlumberger
APG		Bridge Plug Run Plug and Abandon 2 - 3	Bass Strait Oil Co.	

RIG	TYPE OF WELL	FIELD	WELL No.	SERVICE REPORT
Ocean Patriot	Appraisal		Maclean 1	

TIME AND DATE JOB STARTED	TOTAL DEPTH	SIZE HOLE	DEVIATION	BHST	BHCT	INVOICE NUMBER
16:02 20.10.05	766m	12 1/4"				

TIME & DATE JOB COMPLETED	DRILL FLUID			FORMATION	SIR NUMBER
18:00 20.10.05	Type	Wt.	Vis		

Casing						Previous Casing		
13 3/8"	350m	L-80	68ppf	0.4912bbl/m	325.78m	TOP	Bottom	Size
Size	Depth	Type	Wt.	Volume	Collar at			

Completion						BRIDGE PLUG		TAIL PIPE	
Size	Depth	Type	Wt.	Packer @	top	Shoe Depth	Type	Depth	Type	Depth

CASING EQUIPMENT USED				CEMENT HEAD	MUD CIRCULATION PRIOR TO JOB		
SHOE x Float Stab	COLLAR x Float Stab	PLUGS x x Top Bottom	CENT. Qty. Type	DSEH	Time - Min.	Vol. BBLS	Press - PSI

WASH			SPACER			Plug 1a				Plug 1b				
Wt.	Vol. BBLS	Fill	8.3ppg Wt.	10bbls Vol. BBLS	Fill	15.8ppg Wt.	62.4bbls Vol.	36bbls Mix Water	100m Fill	15.8ppg Wt.	62.4bbls Vol.	36bbls Mix Water	100m Fill	

EQUIPMENT								DURING JOB WAS PIPE	PARAMETERS RECORDED: ON:					MUD RETURNS
X LPJ	LAB	X Unit	Pump	Batch Mixer	Compressor RCM	Pump Unit S/No.		Rotated Reciprocated	X Press	X Rate	X Vol	X Qty	Prism Recorder	LOST DURING JOB BBLS

Plug 1a	Plug 1b	MATERIALS USED
Class"G" neat + 4.847gps Seawater @ 15.8ppg w/ 1.16cf/sk yield	Class"G" neat + 4.847gps Seawater @ 15.8ppg w/ 1.16cf/sk yield	

TIME	PRESSURE Low	PRESSURE High	VOLUME BBL	VOLUME BPM	LT MIN	RECORD OF SERVICE
						P & A # 2
20:04			5	3.5		Pump 5 bbls of Seawater ahead
20:08		1,000				Pressure test line to 1000psi
20:12			5	3.5		Pump 5 bbls of Seawater ahead as spacer
20:14			65	5		Mix and pump 65 bbls of cement slurry @ 15.8ppg
20:32			1.5	5		Pump 1.5 bbls of Seawater behind plug
20:33			8.5	7		Displace with 8.5 bbls of mud
20:37						CIP, Bleed off and check return
						Bridge plug run
05:20						Make up setting tool to drill pipe
05:26						RIH with Bridge plug
06:57						Tool @ setting depth - 148m
07:10						Tool set @ 148m
07:18						Sting out from tool and pressure test plug to 1000psi for 10min. - Ok
07:20						POOH with setting tool
						P & A # 3
08:58			5	4		Pump 5 bbls of Seawater ahead
09:00						Pressure test line to 1000psi
09:06			5	4		Pump 5 bbls of Seawater ahead as spacer
09:10			26	4		Mix and pump 26 bbls of cement slurry @ 15.8ppg
09:20			1.5	2		Pump 1.5 bbls of Seawater behind plug
09:21			4	4		Displace with 4 bbls of mud
09:25						CIP, Bleed off and check return

No. OF DS PERSONNEL ON JOB	STEM1 DONE? YES X NO	TOTAL LOST TIME H	TOTAL OPERATING TIME 4 H
SUP	S.S 2	CUSTOMER COMMENTS	DS REPRESENTATIVE
MECH	F.E. HEL 1		Edgardo Llagas / Wayne Comben

QUALITY OF SERVICE	GOOD	SATISFACTORY	POOR	CUSTOMER REPRESENTATIVE
				Ron King / Simon Rodda

APPENDIX 11

DRILLING DATA

(By IDS)

Bass Strait Oil Company Ltd

Well : Maclean-1

Rig : Ocean Patriot

FINAL WELL REPORT

Part 1 : Well Summary

- Well Overview
- Summary Sheet
- Well History
- Phase Summary

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Well Summary

Well Objective :

Country :	Australia
Permit :	Vic/P47
Well :	Maclean-1
Well Type :	EXPLORATION
Operating Company :	Bass Strait Oil Company Ltd
Rig :	Ocean Patriot

Latitude :	38 Deg 02 Min 46.32 Sec
Longitude :	148 Deg 32 Min 52.92 Sec
UTM North :	5,787,927.9
UTM East :	635,831.9
DFE above MSL :	21.5m
Water Depth :	57.0m
Planned TD :	771.0m
Actual TD :	766.0m

On Location Date / Time :	14 Oct 2005 / 21:30
Spud Date / Time :	16 Oct 2005 / 03:30
TD Reached Date / Time :	20 Oct 2005 / 06:00
Rig Released Date / Time :	22 Oct 2005 / 18:30
Total Days Spud / Total Depth :	6.62
Total Days on Operations :	8.19
Total Days Budgeted :	10.24

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DFE above MSL : 21.5m	Lat : 38 Deg 02 Min 46.32 Sec	Spud Date : 16 Oct 2005	Release Date : 22 Oct 2005
Water Depth : 57.0m	Long : 148 Deg 32 Min 52.92 Sec	Spud Time : 03:30	Release Time : 18:30

Well History

Well: Maclean-1

#	Date	Depth	24 Hour Summary
1	14 Oct 2005		Towed to location. Started running anchors.
2	15 Oct 2005		Completed running anchors. Ballasted down to drilling draft. Picked up drill pipe.
3	16 Oct 2005	112.0	Drilled 36" hole. Ran and cemented 30" conductor. Picked up 17 ½" BHA.
4	17 Oct 2005	355.0	Drilled 17 ½" hole. Ran and cemented 13 3/8" casing.
5	18 Oct 2005	355.0	Cemented 13 3/8" casing. Ran BOP'S. Made up 12 ¼" BHA.
6	19 Oct 2005	766.0	Performed FIT, drilled 12 ¼" hole.
7	20 Oct 2005	766.0	Drilled 12 ¼" hole to TD. Started P&A program.
8	21 Oct 2005	766.0	P&A well, pulled BOP's.
9	22 Oct 2005	766.0	Completed P&A operations.

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Part 2 : Drilling Data

- Bit Record
- BHA Record
- Mud Record

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LABRADOR_FWR.xsl (parent/child V1.3)

DFE above MSL : 21.5m | Lat : 38 Deg 02 Min 46.32 Sec | Spud Date : 16 Oct 2005 | Release Date : 22 Oct 2005

Water Depth : 57.0m | Long : 148 Deg 32 Min 52.92 Sec | Spud Time: 03:30 | Release Time: 18:30

Bit Record

Well: Maclean-1

Date In	IADC	Bit#	Size [in]	Ser #	Mfr	Type	Jets # x [/32nd"]	D.In [m]	D.Out [m]	Prog [m]	Hrs o/b	SPP [psi]	Flow [gpm]	WOB [klb]	RPM	MW	TFA	ROP [m/hr]	I	O1	D	L	B	G	O2	R
16 Oct 2005	1-1-1	1	26.00	M26690	Reed	Y11C	1 x 16 3 x 24	78.5	112.0	33.5	0.8	833	811	2	70	1.03	1.522	41.88	0	0	NO	A	0	I	NO	TD
16 Oct 2005	1-1-5	2	17.50	X20970	Reed	T11	1 x 16 3 x 22	112.0	355.0	243	4.1	2181	1112	5	118	1.03	1.31	59.27	0	0	NO	A	0	I	NO	TD
19 Oct 2005	4-1-7	3	12.25	NR2008	Reed	EHP41HK	1 x 28 2 x 24	355.0	766.0	411	16.4	1523	926	15	123	1.06	1.485	25.06	2	3	WT	S	E	I	NO	TD

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DFE above MSL : 21.5m | Lat : 38 Deg 02 Min 46.32 Sec | Spud Date : 16 Oct 2005 | Release Date : 22 Oct 2005

Water Depth : 57.0m | Long : 148 Deg 32 Min 52.92 Sec | Spud Time: 03:30 | Release Time: 18:30

BHA Record

Well: Maclean-1

#	Date-in	Length [m]	Weight [klb]	Weight Blw/Jar Dry [klb]	Weight Blw/Jar Wet [klb]	String Weight [klb]	Pick-Up Weight [klb]	Slack-Off Weight [klb]	Torque Max [kft-lbs]	Torque on Bottom [kft-lbs]	Torque off Bottom [kft-lbs]	Description
1	16 Oct 2005	228.8	50.0						6	4	4	26" bit, 36" hole opener, 7 5/8" reg box x box bit sub with ported float, 9½" Anderdrift with totco ring on top, 3 x 9½" drill collars, 7 5/8" reg pin x 6 5/8" reg box X/O, 3 x 8" drill collars, 6 5/8" reg pin x 4½" IF box X/O, 15 x 5" HWDP
2	16 Oct 2005	201.5	50.0	30.0	30.0	5.0			6	4	4	17½" tri-cone bit, 7 5/8" reg box x box bit sub, 2 x 9½" drill collars, 17" string stabiliser, 1 x 9½" drill collar, 7 5/8" reg pin x 6 5/8" reg box X/O, 8" LWD with DGR, EWR and Dir, 2 x 8" drill collars, 1 x 8" jar, 2 x 8" drill collars, 6 5/8" reg pin x 4½" IF box, 15 x 5" HWDP
3	19 Oct 2005	252.7	60.0	33.0	33.0	17.0	190.0	190.0	6	4	4	12¼" insert bit, 6 5/8" reg box x box bit sub, 8" LWD with DGR, EWR and Dir, 1 x 12¼" string stabiliser, 8 x 8" drill collars, 1 x 8" jar, 2 x 8" drill collars, 6 5/8" Reg pin x 4½" IF box, 15 x 5" HWDP

DFE above MSL : 21.5m | Lat : 38 Deg 02 Min 46.32 Sec | Spud Date : 16 Oct 2005 | Release Date : 22 Oct 2005

Water Depth : 57.0m | Long : 148 Deg 32 Min 52.92 Sec | Spud Time: 03:30 | Release Time: 18:30

Mud Recap

Well: Maclean-1

WBM

R#	Date - Time	Type	Depth [m]	Tmp [C°]	MW [ppg]	VIS [sec/qt]	PV [cp]	YP [lb/100ft²]	Gel10s [lb/100ft²] / 10m [lb/100ft²]	F.L. API [cc]	F.L. hthp [cc]	Sols	Sand	MBT	PH	Cl [mg/l]	Hard [mg/l]	KCl [%]	Daily Cost [$]
2	15 Oct 2005 - 17:00	Pre-Hydrated Gel	0.0	16.0	1.03	120			/										11684
3	16 Oct 2005 - 07:15	Pre-Hydrated Gel	112.0	9.0	1.03	120			/										5623
4	17 Oct 2005 - 21:45	Pre-Hydrated Gel	350.0		1.03	120			/										1000
5	18 Oct 2005 - 21:30	Pre-Hydrated Gel	350.0		1.03	120			/										0
6	19 Oct 2005 - 21:00	PHPA	655.0	27.0	1.06	60	15	24	7 / 10	1.0		3		5	10	39000.0	440.0	6	28609
7	20 Oct 2005 - 15:00	PHPA	766.0	27.0	1.09	67	15	27	8 / 14	1.0		4		8	8.5	38000.0	400.0	7	2586
8	21 Oct 2005 - 06:00	PHPA	766.0	21.0	1.09	75	15	33	12 / 17	1.0		5		9	10.5	37000.0	480.0	7	456

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Part 3 : Time Analysis Data

- Time Overview
- Trouble Time Analysis

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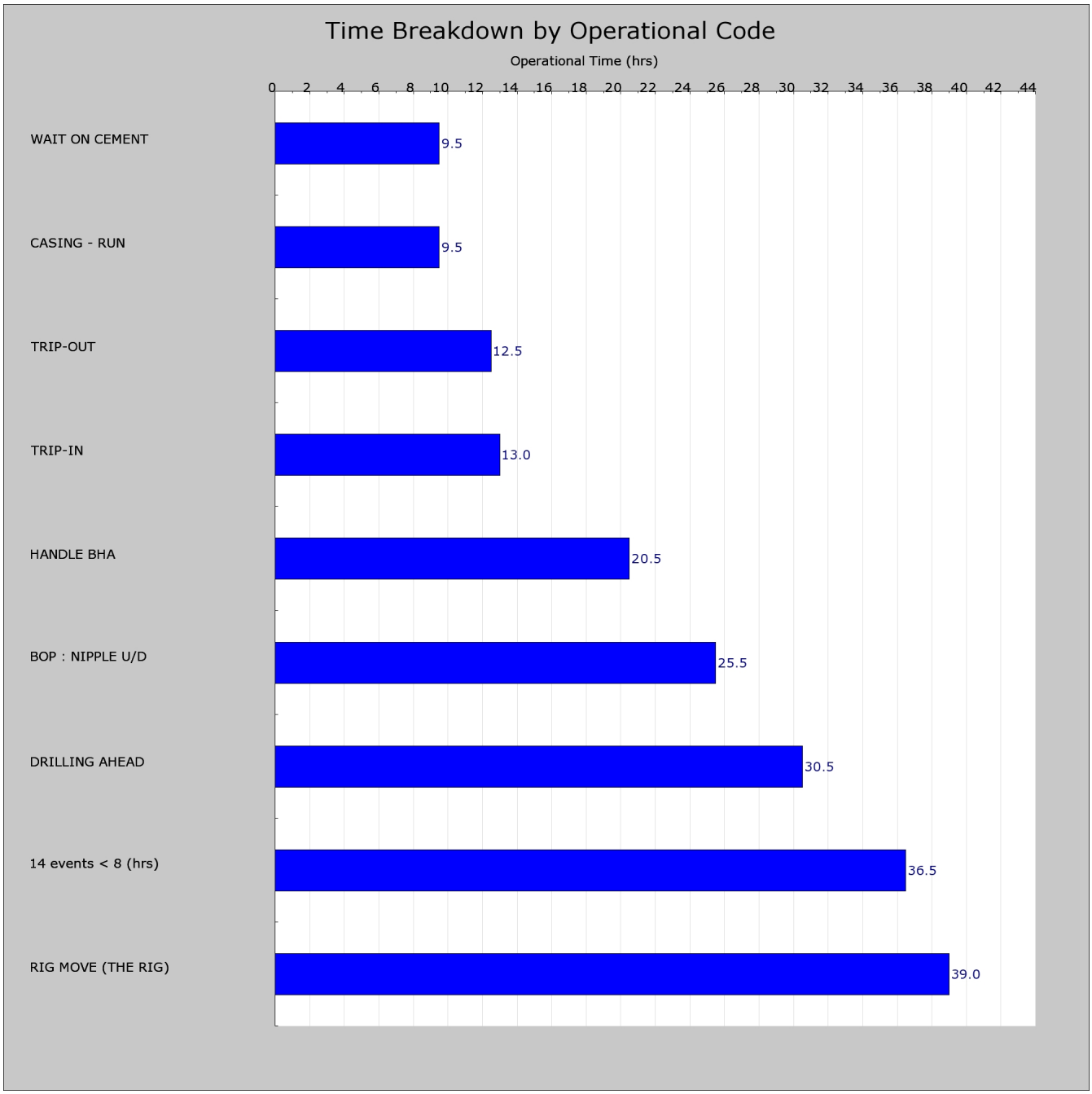
Wellname : Maclean-1	Drilling Co. : DOGC	Rig : Ocean Patriot

DFE above MSL : 21.5m	Lat : 38 Deg 02 Min 46.32 Sec	Spud Date : 16 Oct 2005	Release Date : 22 Oct 2005
Water Depth : 57.0m	Long : 148 Deg 32 Min 52.92 Sec	Spud Time : 03:30	Release Time : 18:30

Time Analysis Breakdown



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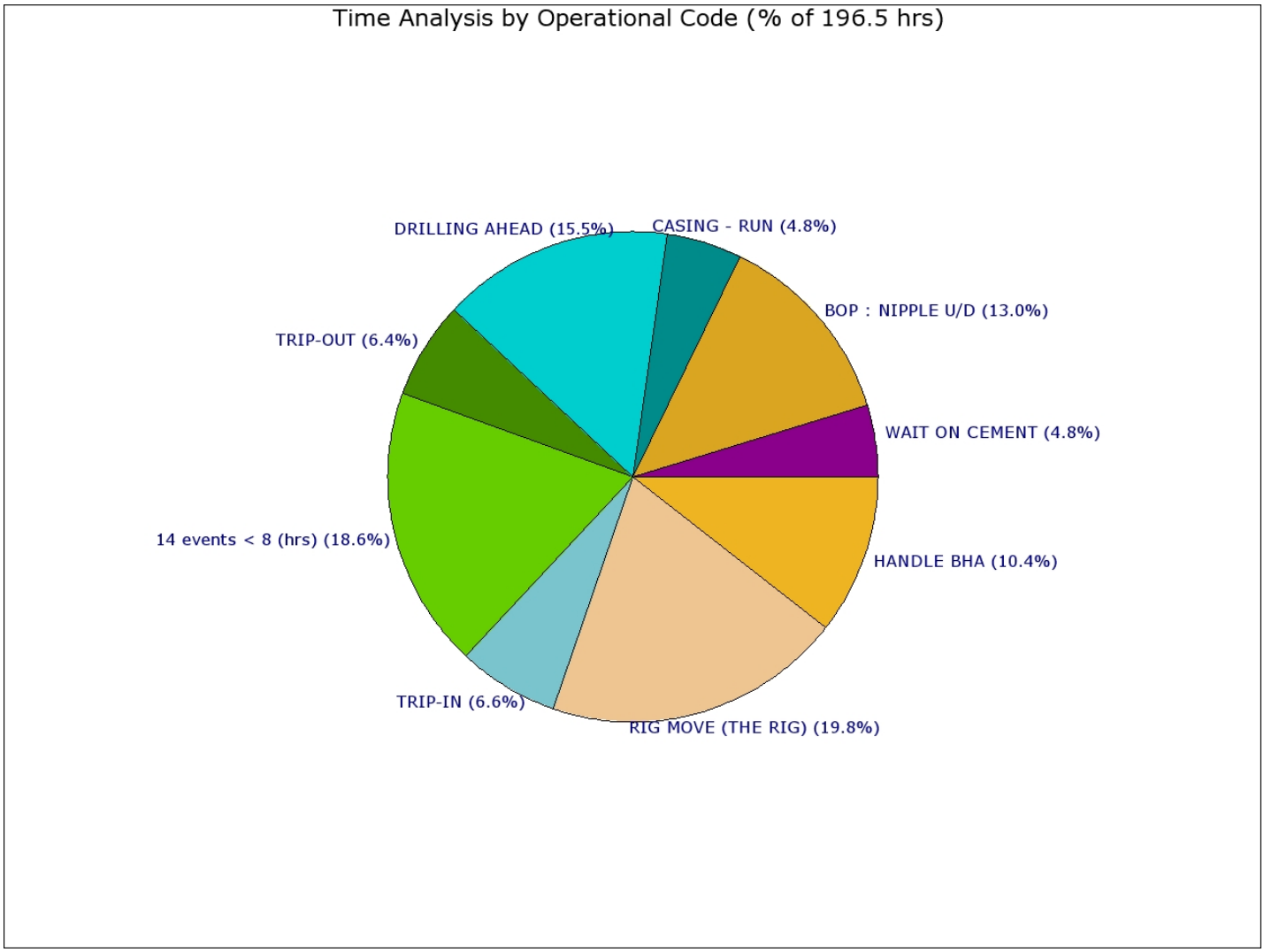
LABRADOR_FWR.xsl (parent/child V1.3)

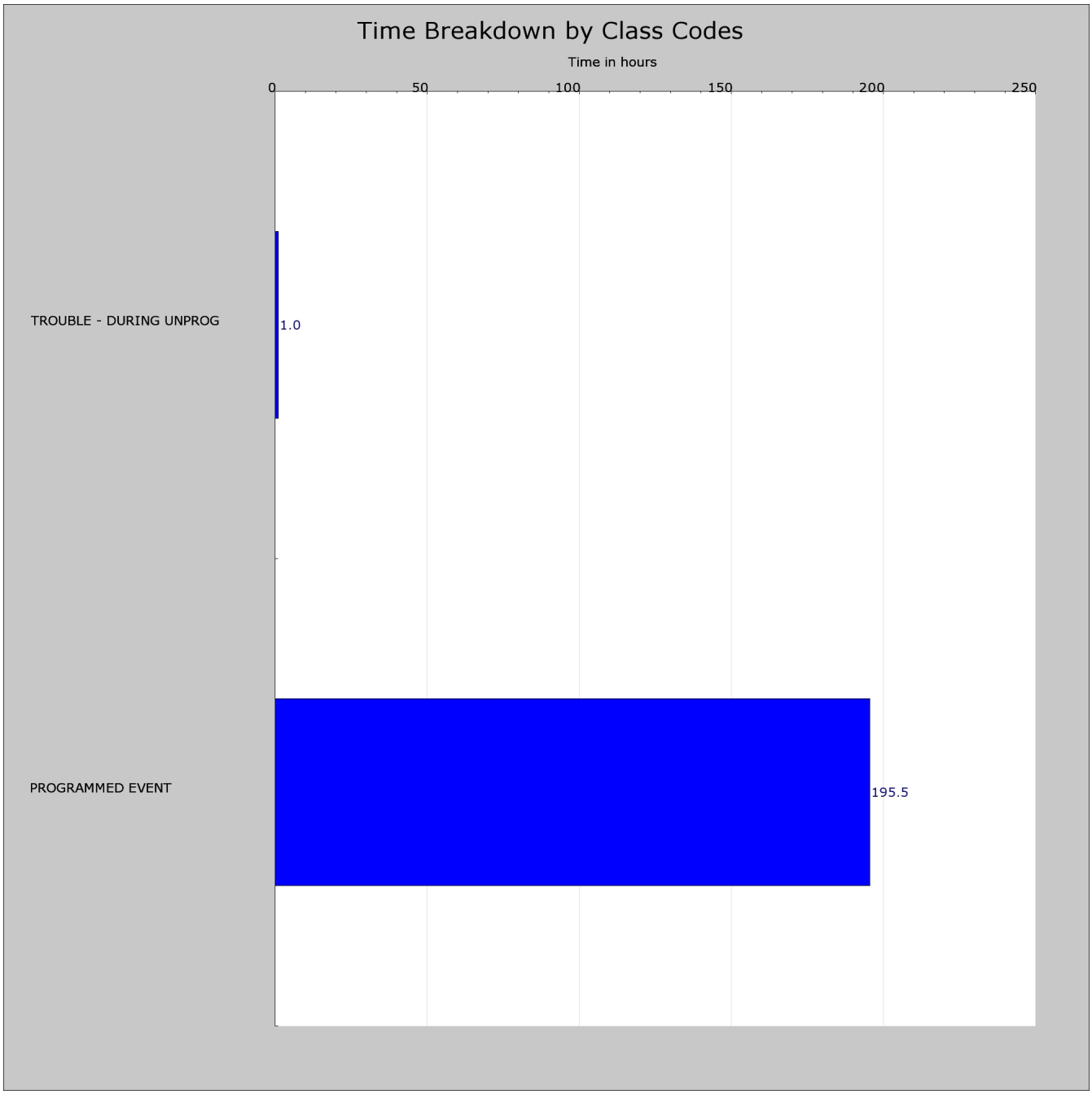
Wellname : Maclean-1	Drilling Co. : DOGC	Rig : Ocean Patriot	
DFE above MSL : 21.5m	Lat : 38 Deg 02 Min 46.32 Sec	Spud Date : 16 Oct 2005	Release Date : 22 Oct 2005
Water Depth : 57.0m	Long : 148 Deg 32 Min 52.92 Sec	Spud Time : 03:30	Release Time : 18:30



'Copyright IDS 2004', 20041105 (TF),
LABRADOR_FWR.xsl (parent/child V1.3)

Wellname : Maclean-1	Drilling Co. : DOGC	Rig : Ocean Patriot

DFE above MSL : 21.5m	Lat : 38 Deg 02 Min 46.32 Sec	Spud Date : 16 Oct 2005	Release Date : 22 Oct 2005
Water Depth : 57.0m	Long : 148 Deg 32 Min 52.92 Sec	Spud Time : 03:30	Release Time : 18:30



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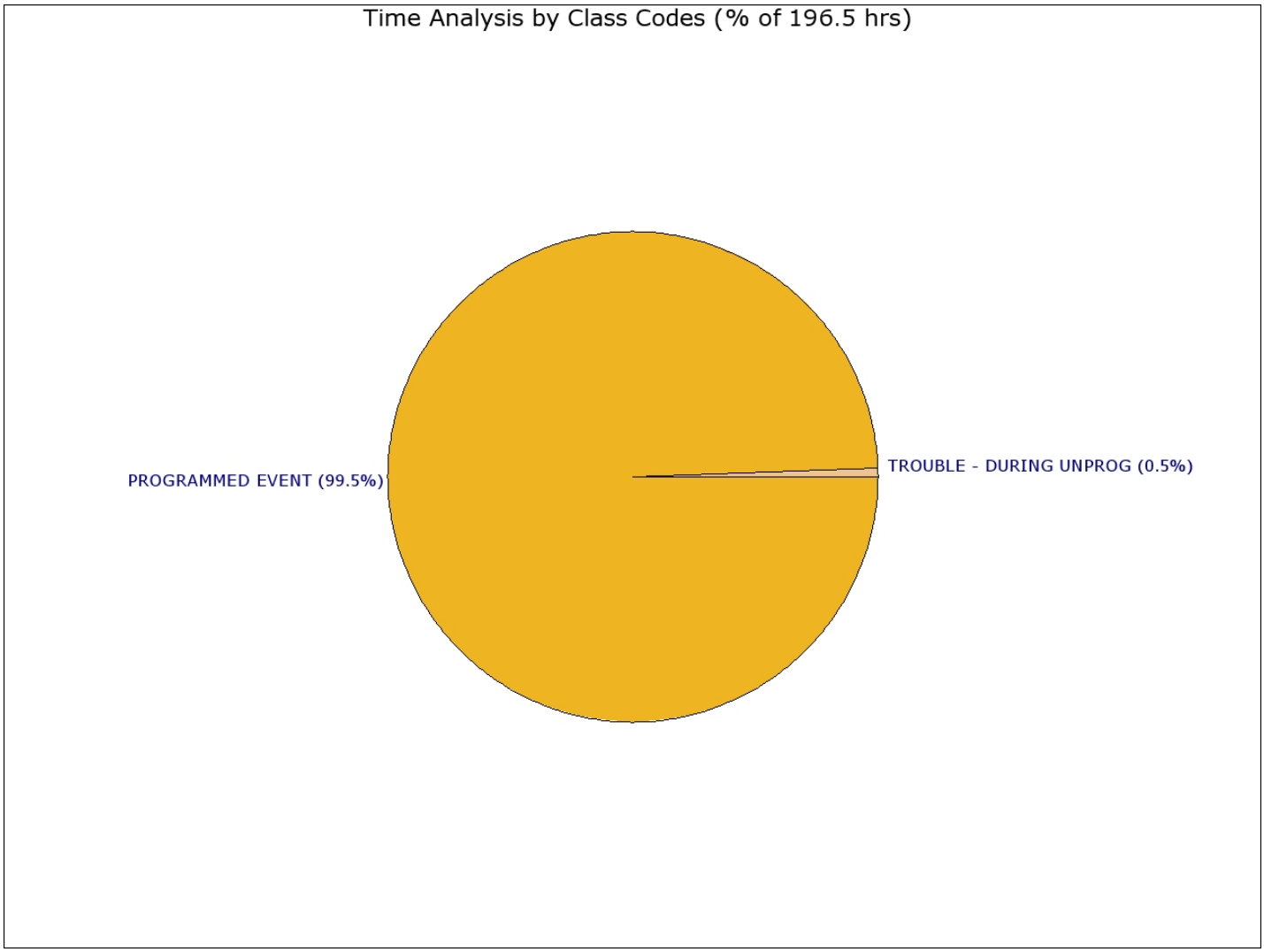
Wellname : Maclean-1	Drilling Co. : DOGC	Rig : Ocean Patriot

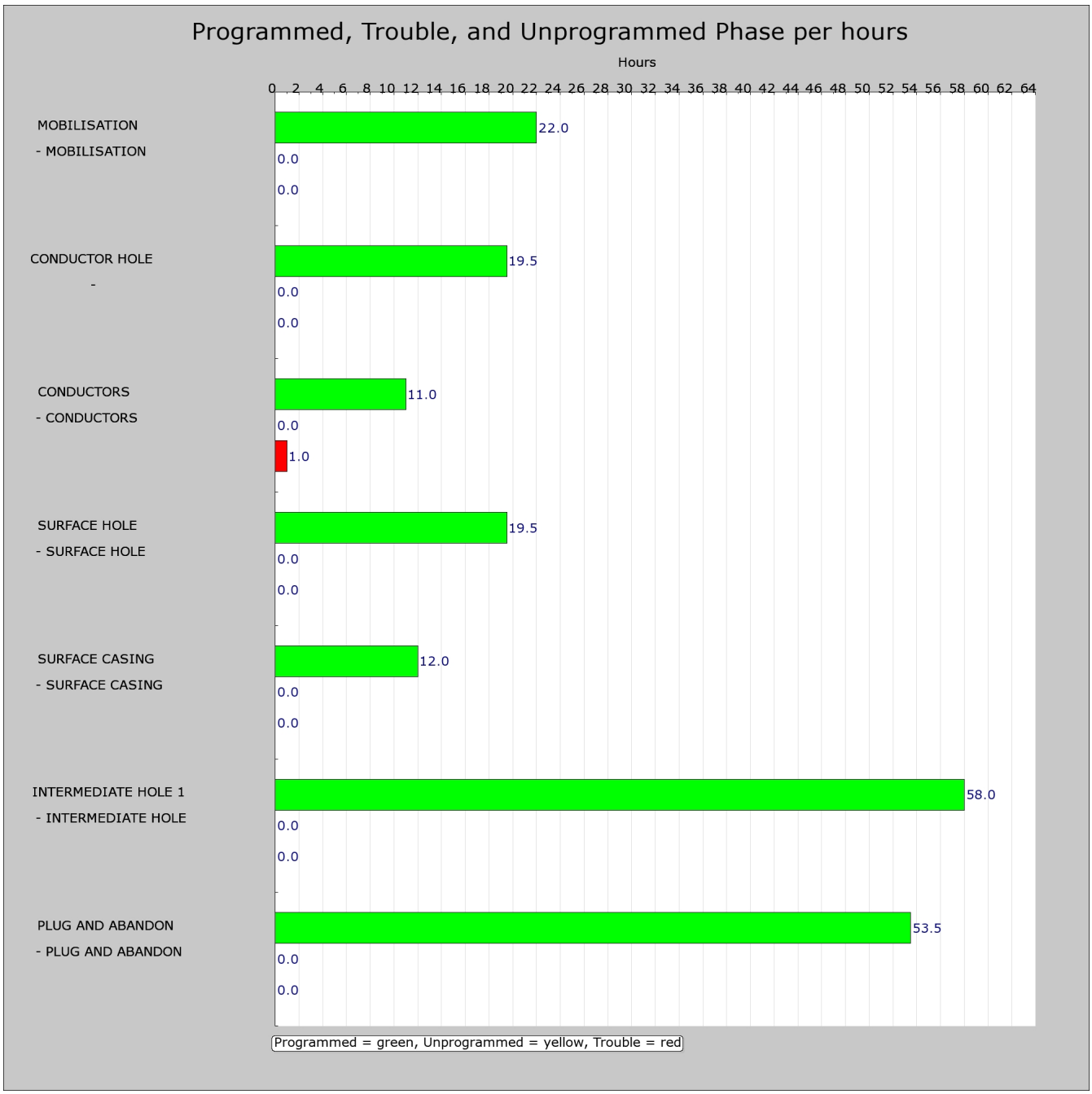
DFE above MSL : 21.5m	Lat : 38 Deg 02 Min 46.32 Sec	Spud Date : 16 Oct 2005	Release Date : 22 Oct 2005
Water Depth : 57.0m	Long : 148 Deg 32 Min 52.92 Sec	Spud Time : 03:30	Release Time : 18:30



'Copyright IDS 2004', 20041105 (TF),
LABRADOR_FWR.xsl (parent/child V1.3)

DFE above MSL : 21.5m	Lat : 38 Deg 02 Min 46.32 Sec	Spud Date : 16 Oct 2005	Release Date : 22 Oct 2005
Water Depth : 57.0m	Long : 148 Deg 32 Min 52.92 Sec	Spud Time : 03:30	Release Time : 18:30

Time Breakdown by Phase



Total Time on Operations : 196.5 hrs

Total Productive Time : 195.5 hrs

Total Lost Time : 1 hrs

Total Unprogrammed Time : 0 hrs

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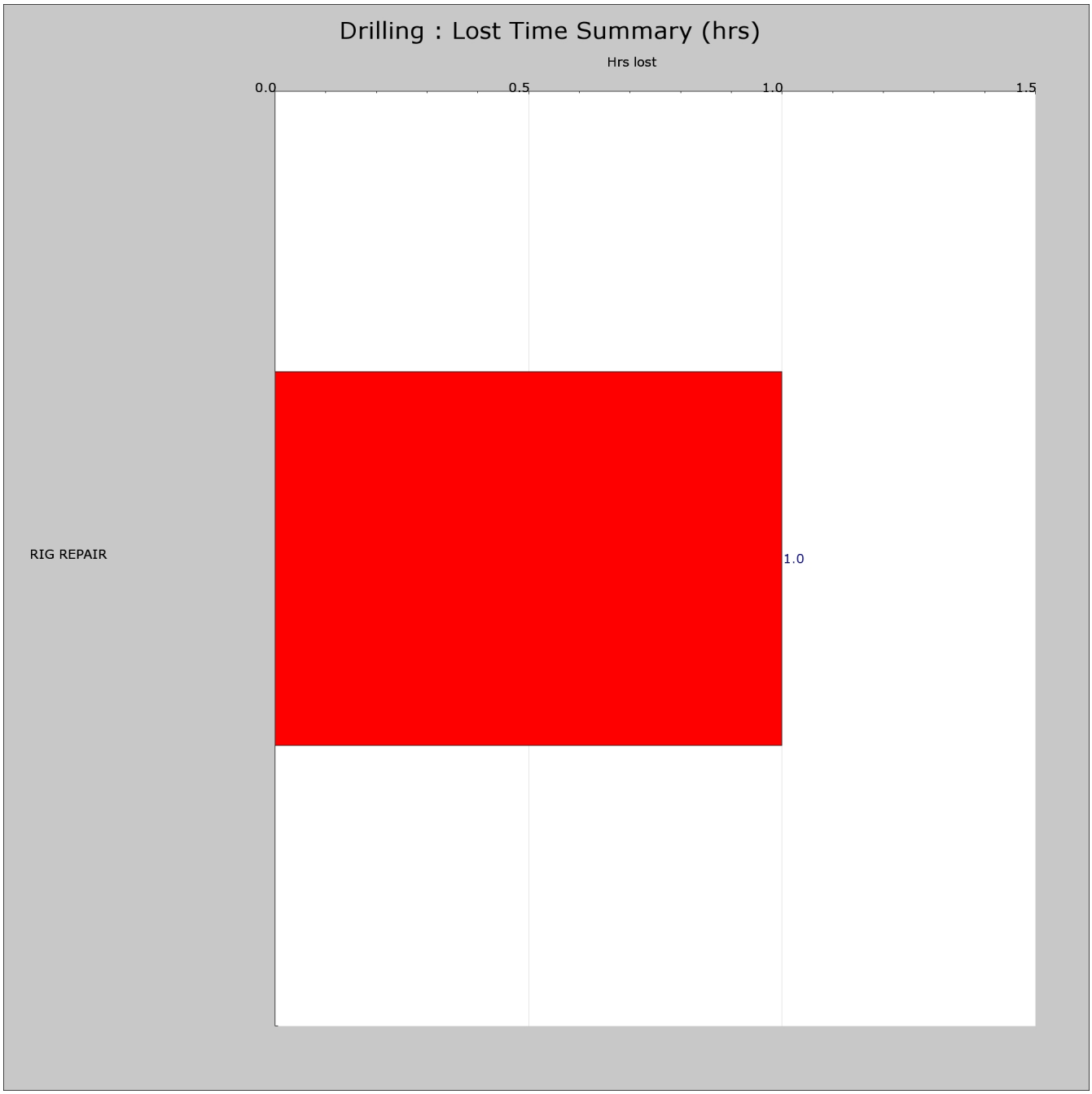
LABRADOR_FWR.xsl (parent/child V1.3)

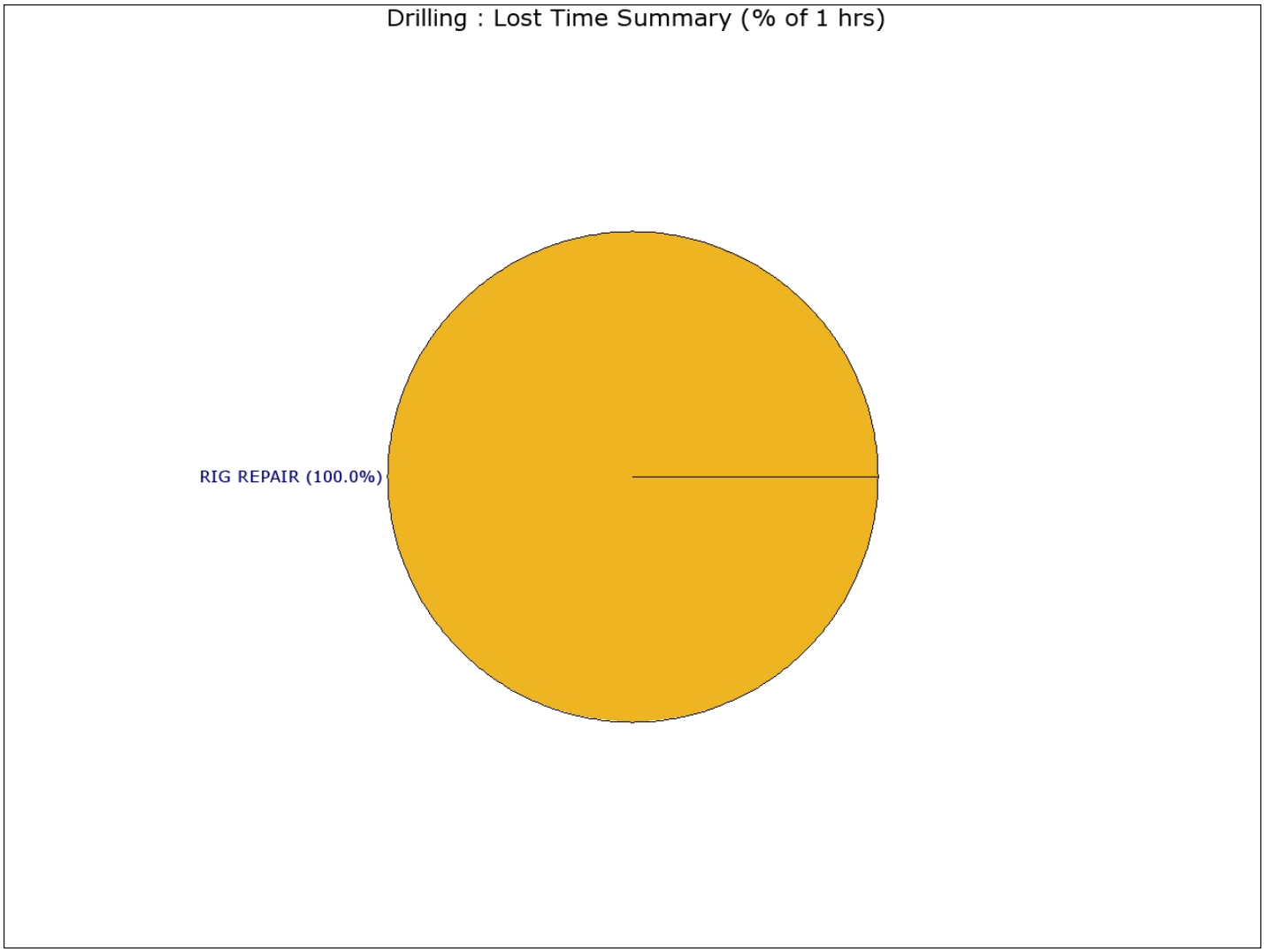
DFE above MSL : 21.5m	Lat : 38 Deg 02 Min 46.32 Sec	Spud Date : 16 Oct 2005	Release Date : 22 Oct 2005
Water Depth : 57.0m	Long : 148 Deg 32 Min 52.92 Sec	Spud Time : 03:30	Release Time : 18:30

Trouble



'Copyright IDS 2004', 20041105 (TF),
LABRADOR_FWR.xsl (parent/child V1.3)

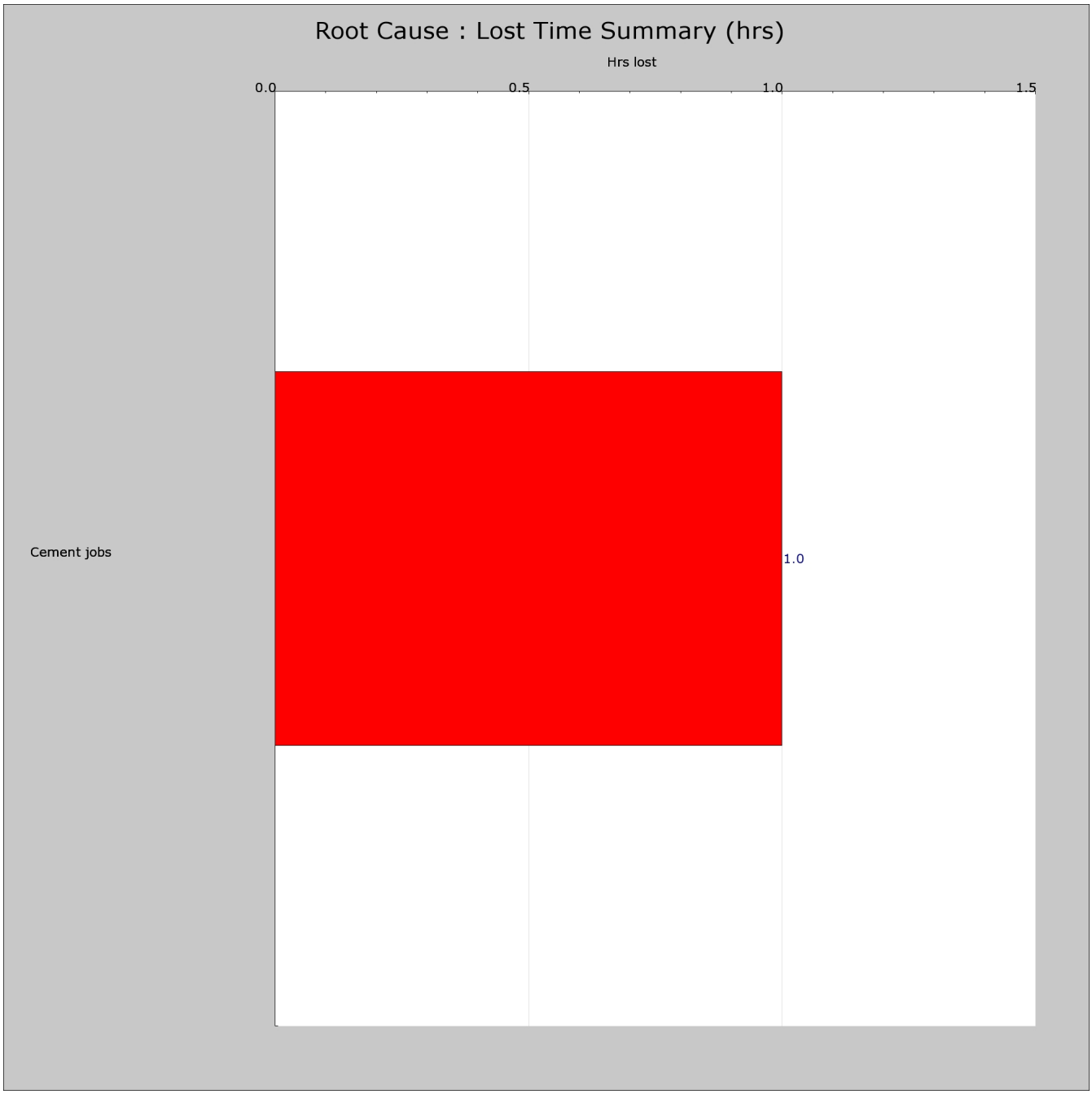
Wellname : Maclean-1	Drilling Co. : DOGC		Rig : Ocean Patriot
DFE above MSL : 21.5m	Lat : 38 Deg 02 Min 46.32 Sec	Spud Date : 16 Oct 2005	Release Date : 22 Oct 2005
Water Depth : 57.0m	Long : 148 Deg 32 Min 52.92 Sec	Spud Time : 03:30	Release Time : 18:30



'Copyright IDS 2004', 20041105 (TF),
LABRADOR_FWR.xsl (parent/child V1.3)

Wellname : Maclean-1	Drilling Co. : DOGC	Rig : Ocean Patriot

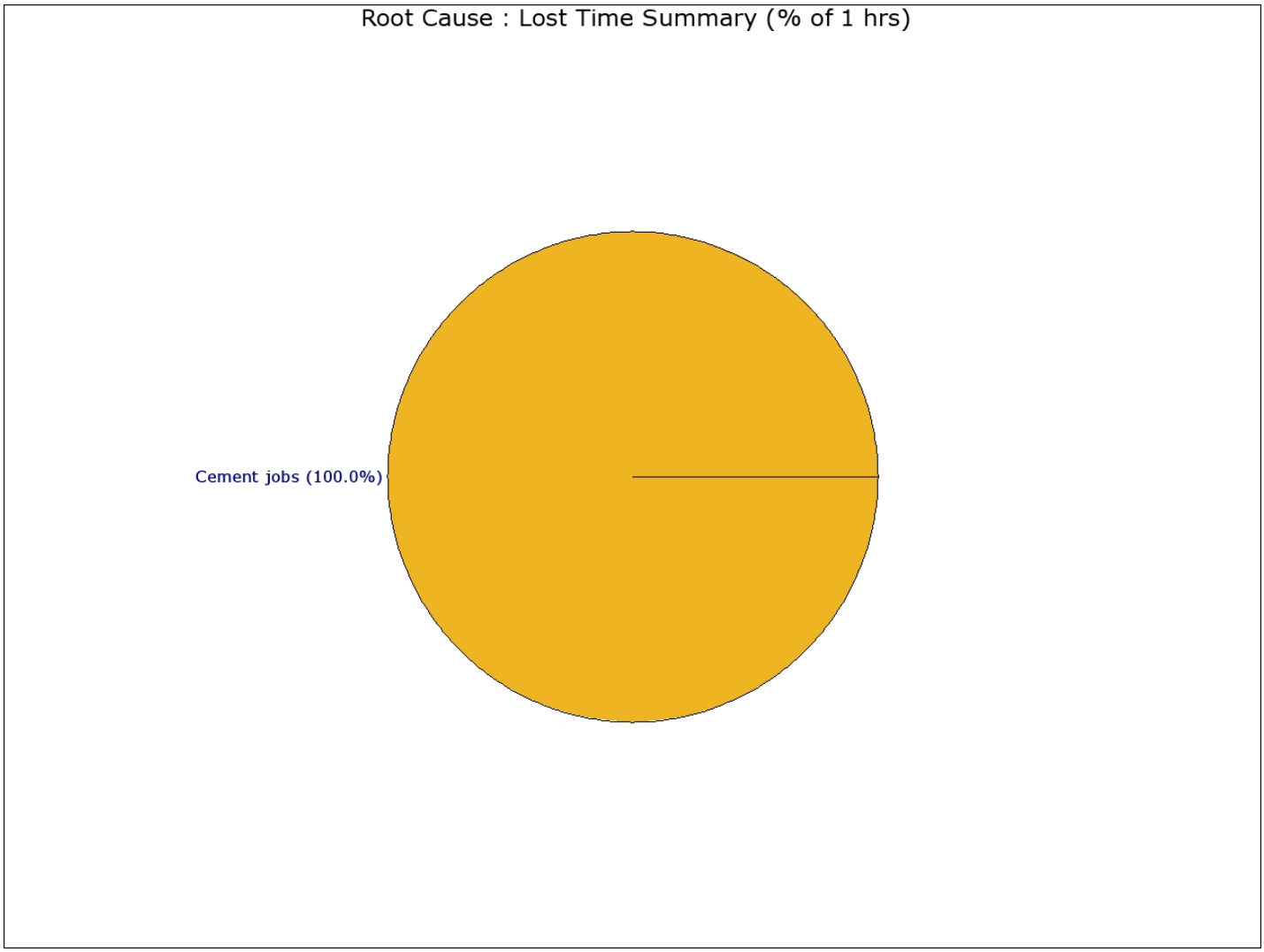
DFE above MSL : 21.5m	Lat : 38 Deg 02 Min 46.32 Sec	Spud Date : 16 Oct 2005	Release Date : 22 Oct 2005
Water Depth : 57.0m	Long : 148 Deg 32 Min 52.92 Sec	Spud Time : 03:30	Release Time : 18:30



'Copyright IDS 2004', 20041105 (TF),
LABRADOR_FWR.xsl (parent/child V1.3)

Wellname : Maclean-1	Drilling Co. : DOGC	Rig : Ocean Patriot

DFE above MSL : 21.5m	Lat : 38 Deg 02 Min 46.32 Sec	Spud Date : 16 Oct 2005	Release Date : 22 Oct 2005
Water Depth : 57.0m	Long : 148 Deg 32 Min 52.92 Sec	Spud Time : 03:30	Release Time : 18:30



'Copyright IDS 2004', 20041105 (TF),
LABRADOR_FWR.xsl (parent/child V1.3)

Wellname : Maclean-1	Drilling Co. : DOGC		Rig : Ocean Patriot
DFE above MSL : 21.5m	Lat : 38 Deg 02 Min 46.32 Sec	Spud Date : 16 Oct 2005	Release Date : 22 Oct 2005
Water Depth : 57.0m	Long : 148 Deg 32 Min 52.92 Sec	Spud Time : 03:30	Release Time : 18:30

'Copyright IDS 2004', 20041105 (TF),
LABRADOR_FWR.xsl (parent/child V1.3)

DFE above MSL : 21.5m	Lat : 38 Deg 02 Min 46.32 Sec	Spud Date : 16 Oct 2005	Release Date : 22 Oct 2005
Water Depth : 57.0m	Long : 148 Deg 32 Min 52.92 Sec	Spud Time : 03:30	Release Time : 18:30

Activity Report For Maclean-1

Date : 14 Oct 2005 **Daily Cost : $ 1414304** **Report Number : 1**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
0.0	MOB	P	RM		7.5	Rig under tow to Maclean-1 location.
0.0	MOB	P	RM		2.5	Pass #4 P.C.C. to Pacific Wrangler @ 19:07hrs, anchor on bottom @ 21:30hrs. Rig on location @ 21:30hrs. Pass #8 P.C.C. to Pacific Wrangler @ 22:32hrs, anchor on bottom @ 23:01hrs. Pass #5 P.C.C. to Pacific Wrangler @ 23:37hrs.

Date : 15 Oct 2005 **Daily Cost : $ 283945** **Report Number : 2**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
0.0	MOB	P	RM		4.5	Running anchors. Anchor #5 on bottom @ 00:05hrs, P.C.C. stowed @ 00:56hrs. Pass #1 anchor to Pacific Wrangler @ 01:06hrs, on bottom @ 01:25hrs, P.C.C. stowed @ 02:14hrs. Pass #3 anchor to Pacific Wrangler @ 02:30hrs, on bottom @ 02:58hrs, P.C.C. stowed @ 03:42hrs. Pass #7 anchor to Far Grip @ 02:41hrs, on bottom @ 03:12hrs, P.C.C. stowed @ 04:21hrs.
0.0	MOB	P	RM		1.5	Pass #2 anchor to Pacific Wrangler @ 03:54hrs, on bottom @ 04:20hrs, P.C.C. stowed @ 04:58hrs. Stowed #6 P.C.C. @ 05:29hrs. Start to pre-tension anchors and ballast rig to drilling draft.
0.0	MOB	P	RM		6	Storm tension anchors with 440kips. After ballast past critical @ 10:30hrs commence to pick up drill pipe while continue to ballast rig.
0.0	CONH	P	PUP		2.5	Pick up 5" drill pipe and rack same in derrick.
0.0	CONH	P	HT		2	Make up and rack cement stand, 30" R/T, 18 3/4" R/T.
0.0	CONH	P	HBHA		7.5	Pick up and rack 36" and 17 1/2" BHA's.

Date : 16 Oct 2005 **Daily Cost : $ 370910** **Report Number : 3**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
0.0	CONH	P	RC		2	Pick up 30" casing and hang off in moonpool.
78.0	CONH	P	TI		1.5	Hold pre-spud JSA . Run in hole with 36" BHA and tag mudline. Mudline @ 78.5m R/T.
112.0	CONH	P	D		1.5	Take survey 0°. Spud well. Drill 36" hole from 78.5m to 112m. Pump 50bbls PHG sweep mid and stand down.
112.0	CONH	P	CIR		1	Sweep hole clean and take survey 1.5°. Ream hole 3x and re-shoot survey 1.5°.
112.0	CONH	P	TO		1.5	Displace hole with 200bbls PHG, wiper trip from 112m to 78.5m. Displace hole with 200bbls PHG, and pull out to run 30" casing. Rack back BHA.
112.0	CON	P	RC		2	Run 30" casing from moonpool on drillpipe. Shoe @ 110.9m.
112.0	CON	P	CIC		0.5	Break circulation, bullseye reading 2°, move rig to correct bullseye. Final reading 0.75°.
112.0	CON	TU	RR	CMT	1	Unable to install cement hose as the bullplug on the side entry sub was too tight. Break off stand and put in mouse hole to correct problem.
112.0	CON	P	CMC		1.5	Mix and pump cement, 180bbls of slurry @ 15.8ppg with 107bbls mix water.
112.0	CON	P	WOC		5	Hold tension on 30" while wait on cement.
112.0	CON	P	TO		1	Rig down cement hose and release R/T from 30" housing. Recover same.

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DFE above MSL : 21.5m	Lat : 38 Deg 02 Min 46.32 Sec	Spud Date : 16 Oct 2005	Release Date : 22 Oct 2005
Water Depth : 57.0m	Long : 148 Deg 32 Min 52.92 Sec	Spud Time : 03:30	Release Time : 18:30

Date : 16 Oct 2005 **Daily Cost : $ 370910** **Report Number : 3**

112.0	CON	P	WH	0.5	Adjust tension on guide lines, ROV take final readings of bullseye 1° port.
112.0	CON	P	LDP	0.5	Lay down cement stinger under 30" R/T.
112.0	SH	P	HT	1.5	Make up Deep Sea Express cement head and rack in derrick.
112.0	SH	P	HBHA	1	Break off 26" bit and lay down 36" hole opener.
112.0	SH	P	HBHA	2	Make up 17 1/2" BHA.

Date : 17 Oct 2005 **Daily Cost : $ 382478** **Report Number : 4**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
112.0	SH	P	HBHA		2	Run in with 17 1/2" BHA and tag cement @ 107m.
112.0	SH	P	DFS		1	Drill out cement and shoe and rat hole to 112m.
355.0	SH	P	D		6.5	Drill 17 1/2" hole from 112m to 355m. Sweep 50bbls PHG mid-stand and 70bbls stand down.
355.0	SH	P	CHC		0.5	Sweep 150bbls PHG at TD and circulate hole clean. Displace well to PHG.
355.0	SH	P	TO		2	Perform wiper trip from 355m to 111m, work tight spots clean at 291m, 286m, 264m, 227m. Run back to bottom, hole good.
355.0	SH	P	CHC		0.5	Circulate hole clean and displace hole to PHG.
355.0	SH	P	TO		2.5	Pull out with 17 1/2" BHA, download MWD and rack back same.
355.0	SC	P	RRC		1	Hold safety meeting and rig up to run 13 3/8" casing.
355.0	SC	P	RC		5.5	Run 13 3/8" casing, pick up 18 3/4" wellhead, install plugs, run and land wellhead into 30" housing. Confirm same with 50k o/pull. Bullseye on PGB reading 1.5°.
355.0	SC	P	CMC		0.5	Attach cement hose to cement head, install operating hoses to Deep Sea Express dart launcher.
355.0	SC	P	CMC		2	Circulate 150bbls seawater. Pump 20bbls dye and test lines with 2000 psi. Mix and pump 130 bbls lead slurry @ 12.5ppg with 103bbls mix water. Mix and pump 101bbls tail slurry @ 15.8ppg with 60.8bbls mix water. Release top dart and pump 10bbls drillwater.

Date : 18 Oct 2005 **Daily Cost : $ 317960** **Report Number : 5**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
355.0	SC	P	CMC		1	Displace cement with 117bbls and bump plug with 500psi over final circulating pressure to 900psi. Attempt to test casing with 1500psi, slow leak, bleed off and check float holding.
355.0	SC	P	TO		1	Rig down cement lines and release running tool and recover same.
355.0	SC	P	HT		1	Lay down Deep Sea Express equipment.
355.0	IH	P	BOP		3	Hold safety meeting, rig up to run marine riser, make up double of riser.
355.0	IH	P	BOP		8	Run BOP'S, install choke and kill and booster lines and P/Test same with 250/3000psi 5/10mins. Lock in tensioner ring, install storm saddles to pod hoses.
355.0	IH	P	BOP		2	Install RBQ plates on pod reels. Latch BOP and confirm with 50kips overpull on both pods. Close shear rams and perform 250/1500psi, 5/10min test on connector against casing. Good test.
355.0	IH	P	BOP		2	Stroke out slip joint and lay down handling joint and install diverter. Rig down riser handling equipment.
355.0	IH	P	BT		1.5	Run in hole test plug with 4 stands HWDP and set plug in wellhead @ 75m.
355.0	IH	P	BT		1.5	Close middle pipe ram and test connector with 250/3000psi, 5/10min. Good test. Pull out with test plug.
355.0	IH	P	HBHA		1.5	Lay down 17 1/2" BHA.
355.0	IH	P	HBHA		1.5	Make up 12 1/4" BHA.

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DFE above MSL : 21.5m | Lat : 38 Deg 02 Min 46.32 Sec | Spud Date : 16 Oct 2005 | Release Date : 22 Oct 2005

Water Depth : 57.0m | Long : 148 Deg 32 Min 52.92 Sec | Spud Time : 03:30 | Release Time : 18:30

Date : 19 Oct 2005 **Daily Cost : $ 436559** **Report Number : 6**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
355.0	IH	P	HBHA		2	Make up 12 1/4" BHA.
355.0	IH	P	BT		0.5	Function test diverter.
355.0	IH	P	TI		0.5	Run in hole and tag cement @ 314m.
355.0	IH	P	DFS		3.5	Drill cement plugs and float equipment and clean out rathole from 314m to 355m.
358.0	IH	P	D		1	Drill 12 1/4" hole from 355m to 358m. Sweep hole clean with PHG, chase with 100bbls seawater, displace hole with PHPA mud.
358.0	IH	P	LOT		1	Perform F.I.T. with 8.7ppg mud. Surface pressure 305psi = EMW 13.8ppg.
673.0	IH	P	D		15.5	Drill 12 1/4" hole from 358m to 673m. Backream each stand. Control drill for MWD logs from 600m to 673m @ 25m/hr.

Date : 20 Oct 2005 **Daily Cost : $ 250729** **Report Number : 7**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
766.0	IH	P	D		6	Drill 12 1/4" hole from 673m to 766m. Control drill @ 25m/hr for MWD logs.
766.0	IH	P	CIR		0.5	Circulate bottoms up and flow check.
766.0	IH	P	TO		2.5	Pull out from 766m to 622m, backream from 622m to 350m due to excessive drag.
766.0	IH	P	TO		1	Circulate hole clean, flow check and pump slug.
766.0	IH	P	HBHA		3	Pull out from 350m, download MWD and lay down same. Rack back BHA.
766.0	PA	P	TI		2.5	Make up mule shoe and run in hole OEDP to 766m.
766.0	PA	P	CMP		1.5	Make up cement line and pressure test same with 1000psi. Mix and pump cement plug #1a. Mix and pump 62.4bbls slurry @ 15.8ppg, 304sx Class G, with 36bbls mix water.
766.0	PA	P	CMP		1.5	Pull back from 766m to 666m, circulate 40bbls, rig up cement line and pressure test with 1000psi. Mix and pump cement plug #1b. Mix and pump 62.4bbls slurry @ 15.8ppg, 304sx Class G, with 36bbls mix water.
766.0	PA	P	CIR		1	Pull back from 666m to 530m and circulate hole clean, no cement returns. Pull back to 500m and spot 60bbls hi-vis.
766.0	PA	P	CMP		1	Pull back from 500m to 400m rig up cement line and pressure test with 1000psi. Mix and pump cement plug #2. Mix and pump 65bbls slurry @ 15.8ppg 314sx Class G, with 38bbls mix water.
766.0	PA	P	CIR		0.5	Pull back 400m to 270m and circulate hole clean, no cement returns.
766.0	PA	P	WOC		3	Wait on cement. Pull out and lay down excess drillpipe and drill collars.

Date : 21 Oct 2005 **Daily Cost : $ 265597** **Report Number : 8**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
766.0	PA	P	WOC		1.5	Lay down excess drill collars. Lay down hangoff tool.
766.0	PA	P	TI		1	Run in hole with cement stinger and tag cement at 274m with 5000lbs.
766.0	PA	P	CIR		0.5	Circulate well to inhibited mud.
766.0	PA	P	LDP		2	Lay down all excess drillpipe.
766.0	PA	P	TI		2.5	Make up and run 13 3/8" bridge plug to 148m and set same. Pressure test with 1000psi. Good test.

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DFE above MSL : 21.5m	Lat : 38 Deg 02 Min 46.32 Sec	Spud Date : 16 Oct 2005	Release Date : 22 Oct 2005
Water Depth : 57.0m	Long : 148 Deg 32 Min 52.92 Sec	Spud Time : 03:30	Release Time : 18:30

Date : 21 Oct 2005 **Daily Cost : $ 265597** **Report Number : 8**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
766.0	PA	P	TI		1.5	Pull out and lay down setting tool. Run in with mule shoe OEDP to 148m.
766.0	PA	P	CMP		0.5	Rig up cement line and pressure test same with 1000psi. Mix and pump cement plug #3 from 148m to 100m. Mix and pump 26bbls slurry @ 15.8ppg Class G, with 15bbls mix water.
766.0	PA	P	TO		1	Pull back to 95m and reverse circulate hole clean, trace cement. Pull out and lay down mule shoe.
766.0	PA	P	TI		1.5	Run in and recover wear bushing, jet BOP on trip out.
766.0	PA	P	BOP		3.5	Rig up to pull marine riser, lay out diverter and pick up handling joint.
766.0	PA	P	BOP		7	Unlatch BOP and pull same and rack on carrier. Unlatched HAC, positive indication observed with ROV.
766.0	PA	P	TI		1.5	Make up 20" casing cutter and run in same on HWDP.

Date : 22 Oct 2005 **Daily Cost : $ 212661** **Report Number : 9**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
766.0	PA	P	TI		0.5	Continue to run in hole with 20" cutting assembly.
766.0	PA	P	WH		1	Cut 20" casing @ 83.4m.
766.0	PA	P	RM		3.5	Pull PGB and 18 3/4" Hsg and 30" Hsg free with 40k overpull, recover same. Start to de-ballast rig @ 01:30hrs. Perform sea bed survey and record same with ROV. Split and lay down both Hsg, secure PGB in moonpool.
766.0	PA	P	RM		13.5	Start to pull anchors while continuing to de-ballast. #6 - P.C.C. passed to Pacific Wrangler @ 05:31hrs, anchor off bottom @ 06:00hrs, racked @09:36hrs. #2 - P.C.C. passed to Far Grip @ 07:51hrs, anchor off bottom @ 08:19hrs, racked @09:21hrs. #3 - P.C.C. passed to Far Grip @ 09:30hrs, anchor off bottom @ 09:55hrs, racked @10:56hrs. #7 - P.C.C. passed to Pacific Wrangler @ 09:44hrs, anchor off bottom @ 10:09hrs, racked @11:17hrs. #4 - P.C.C. passed to Far Grip @ 11:04hrs, anchor off bottom @ 12:00hrs, racked @ 13:45hrs. Completed de-balast @ 11:26hrs. Pacific Wrangler placed on tow bridle @ 13:11hrs. #8 - P.C.C. passed to Far Grip @ 14:05hrs, anchor off bottom @ 14:23hrs, racked @ 15:24hrs. #1 - P.C.C. passed to Far Grip @ 15:39hrs, anchor off bottom @ 16:01hrs, racked @ 17:20hrs. #5 - P.C.C. passed to Far Grip @ 17:37hrs, anchor off bottom @ 17:58hrs, racked @ 18:30hrs. Rig under tow to Apache Energy's Fur Seal-1 location @ 18:30hrs. Statement of facts obtained.

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APPENDIX 12

DAILY DRILLING REPORTS

(By IDS)

BASS STRAIT Oil
Oil for Australians

14 Oct 2005 (GMT +10)

From: P. Dane / S. Rodda
To: C. Allport

DRILLING MORNING REPORT # 1
Maclean-1 (Vic/P47)

Well Data

Country	Australia	M. Depth	0.0m	Cur. Hole Size		AFE Cost	$4,751,978
Field	Maclean	TVD	0.0m	Casing OD		AFE No.	
Drill Co.	DOGC	Progress	0.0m	Shoe TVD		Daily COST	$1,414,304
Rig	Ocean Patriot	Days from spud	0.00	FIT		Cum Cost	$1,414,304
Wtr Dpth(MSL)	57.0m	Days on well	0.42	LOT		Planned TD	771.0m
RT-MSL	21.5m					Days Since Last LTI	877
RT-ML	78.5m						

Current Op @ 0600: Running Anchors / Ballast to drilling draft.

Planned Op: P/U Pipe and Spud Well.

Summary of Period 0000 to 2400 Hrs

Towed to location. Started running anchors.

Operations For Period 0000 Hrs to 2400 Hrs on 14 Oct 2005

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
1400	2130	7.50	MOB	P	RM	0.0m	Rig under tow to Maclean-1 location.
2130	2400	2.50	MOB	P	RM	0.0m	Pass #4 P.C.C. to Pacific Wrangler @ 19:07hrs, anchor on bottom @ 21:30hrs. Rig on location @ 21:30hrs. Pass #8 P.C.C. to Pacific Wrangler @ 22:32hrs, anchor on bottom @ 23:01hrs. Pass #5 P.C.C. to Pacific Wrangler @ 23:37hrs.

Operations For Period 0000 Hrs to 0600 Hrs on 15 Oct 2005

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0430	4.50	MOB	P	RM	0.0m	Running anchors. Anchor #5 on bottom @ 00:05hrs, P.C.C. stowed @ 00:56hrs. Pass #1 anchor to Pacific Wrangler @ 01:06hrs, on bottom @ 01:25hrs, P.C.C. stowed @ 02:14hrs. Pass #3 anchor to Pacific Wrangler @ 02:30hrs, on bottom @ 02:58hrs, P.C.C. stowed @ 03:42hrs. Pass #7 anchor to Far Grip @ 02:41hrs, on bottom @ 03:12hrs, P.C.C. stowed @ 04:21hrs.
0430	0600	1.50	MOB	P	RM	0.0m	Pass #2 anchor to Pacific Wrangler @ 03:54hrs, on bottom @ 04:20hrs, P.C.C. stowed @ 04:58hrs. Stowed #6 P.C.C. @ 05:29hrs. Start to pre-tension anchors and ballast rig to drilling draft.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite	MT				43.6
Gel	MT				84.9
Cement	MT				76.6
Drill Water	M^3				384.6
Fuel Oil	M^3				381.1
Potable Water	M^3				231.8
Cement Silica	MT				0.0
Brine	BBLS				0.0
Liquid Mud	BBLS				0.0
Helicopter Fuel	ltrs				1,480.0

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing

Personnel On Board

Job Title	Personnel	Company	Pax
		DOGC	53

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Personnel On Board

		BSOC	5
		ESS	8
		MI Swaco	2
		Dowell Schlumberger	2
		Fugro	6
		Dril-Quip	1
		Geoservices	4
		Sperry Sun	2
		Fugro	2
		RPS Hyrdrosearch	1
		Total	86

HSE Summary

Events	Date of last	Days Since	Descr.	Remarks
Abandon Drill	09 Oct 2005	5 Days		
Environmental Incident	21 Sep 2005	23 Days		
Fire Drill	09 Oct 2005	5 Days		
Man Overboard Drill	10 Sep 2005	34 Days		

Marine

Weather on 14 Oct 2005

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.00mi	8.0kn	225.0deg	10mbar	15.0C°	0.2m	315.0deg	

Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments
0.5deg	0.5deg	0.30m	0.2m	0.0deg		

Rig Dir.	Ris. Tension	VDL	Comments
259.0deg		3488.0klb	

Rig Support

Anchors	Tension (klb)
1	
2	
3	
4	
5	
6	
7	
8	

Boats	Arrived (date/time)	Departed (date/time)	Status
Far Grip			Working Ocean Patriot
Pacific Wrangler			Working Ocean Patriot

Bulks

Item	Unit	Quantity
Fuel Oil	M3	544
Potable Water	M3	293
Drill Water	M3	742
Cement	MT	82
Cement Silica	MT	54
Barite	MT	54.5
Gel	MT	37

Item	Unit	Quantity
Fuel Oil	M3	297.1
Potable Water	M3	183
Drill Water	M3	624
Cement	MT	76.5
Cement Silica	MT	
Barite	MT	71.4
Gel	MT	42

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BASS STRAIT Oil
Oil for Australians

15 Oct 2005 (GMT +10)

From: P. Dane / S. Rodda
To: C. Allport

DRILLING MORNING REPORT # 2

Maclean-1 (Vic/P47)

Well Data

Country	Australia	M. Depth	0.0m	Cur. Hole Size	36.000in	AFE Cost	$4,751,978
Field	Maclean	TVD	0.0m	Casing OD		AFE No.	
Drill Co.	DOGC	Progress	0.0m	Shoe TVD		Daily COST	$283,945
Rig	Ocean Patriot	Days from spud	0.00	FIT		Cum Cost	$1,698,249
Wtr Dpth(MSL)	57.0m	Days on well	1.42	LOT		Planned TD	771.0m
RT-MSL	21.5m					Days Since Last LTI	879
RT-ML	78.5m						

Current Op @ 0600: 36" Hole at TD.

Planned Op: Run and cement 30" and drill out shoe.

Summary of Period 0000 to 2400 Hrs

Completed running anchors. Ballasted down to drilling draft. Picked up drill pipe.

Operations For Period 0000 Hrs to 2400 Hrs on 15 Oct 2005

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0430	4.50	MOB	P	RM	0.0m	Running anchors. Anchor #5 on bottom @ 00:05hrs, P.C.C. stowed @ 00:56hrs. Pass #1 anchor to Pacific Wrangler @ 01:06hrs, on bottom @ 01:25hrs, P.C.C. stowed @ 02:14hrs. Pass #3 anchor to Pacific Wrangler @ 02:30hrs, on bottom @ 02:58hrs, P.C.C. stowed @ 03:42hrs. Pass #7 anchor to Far Grip @ 02:41hrs, on bottom @ 03:12hrs, P.C.C. stowed @ 04:21hrs.
0430	0600	1.50	MOB	P	RM	0.0m	Pass #2 anchor to Pacific Wrangler @ 03:54hrs, on bottom @ 04:20hrs, P.C.C. stowed @ 04:58hrs. Stowed #6 P.C.C. @ 05:29hrs. Start to pre-tension anchors and ballast rig to drilling draft.
0600	1200	6.00	MOB	P	RM	0.0m	Storm tension anchors with 440kips. After ballast past critical @ 10:30hrs commence to pick up drill pipe while continue to ballast rig.
1200	1430	2.50	CONH	P	PUP	0.0m	Pick up 5" drill pipe and rack same in derrick.
1430	1630	2.00	CONH	P	HT	0.0m	Make up and rack cement stand, 30" R/T, 18 3/4" R/T.
1630	2400	7.50	CONH	P	HBHA	0.0m	Pick up and rack 36" and 17 1/2" BHA's.

Operations For Period 0000 Hrs to 0600 Hrs on 16 Oct 2005

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0200	2.00	CONH	P	RC	0.0m	Pick up 30" casing and hang off in moonpool.
0200	0330	1.50	CONH	P	TI	78.0m	Hold pre-spud JSA . Run in hole with 36" BHA and tag mudline. Mudline @ 78.5m R/T.
0330	0500	1.50	CONH	P	D	112.0m	Take survey 0°. Spud well. Drill 36" hole from 78.5m to 112m. Pump 50bbls PHG sweep mid and stand down.
0500	0600	1.00	CONH	P	CIR	112.0m	Sweep hole clean and take survey 1.5°. Ream hole 3x and re-shoot survey 1.5°.

Operations For Period Hrs to Hrs on

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Printed on 09 Jan 2006

BASS STRAIT Oil
Oil for Australians

WBM Data

Cost Today $ 11684

Mud Type:	Pre-Hydrated Gel	API FL:	Cl:	Solids:	Viscosity	120sec/qt
Sample-From:	Active	Filter-Cake:	Hard/Ca:	H2O:	PV	
Time:	17:00	HTHP-FL:	MBT:	Oil:	YP	
Weight:	1.03ppg	HTHP-cake:	PM:	Sand:	Gels 10s	
Temp:	16.0C°		PF:	Glycol:	Gels 10m	
			pH:	KCl:	Fann 003	
				PHPA:	Fann 006	
					Fann 100	
					Fann 200	
					Fann 300	
					Fann 600	

Comment

Total costs
11684.36

Shakers, Volumes and Losses Data

Engineer : J. Singh

Equip.	Descr.	Mesh Size
Shaker 1	4 x 52	
Shaker 2	3 x 52 , 1 x 84	
Shaker 3	4 x 84	
Shaker 4	4 x 84	

Available	**1593bbl**
Active Mixing	
Hole	
Slug	
Reserve	1593bbl
Kill	

Losses	**0bbl**
Downhole	
Surf+ Equip	0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Comments

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite	MT	66.71			110.3
Gel	MT	72.84		-84.91	72.8
Cement	MT	149.02			225.6
Drill Water	m³			797	797.0
Fuel Oil	m³			373	373.0
Potable Water	m³			231	231.0
Cement Silica	MT				0.0
Brine	BBLS				0.0
Liquid Mud	BBLS				0.0
Helicopter Fuel	ltr				0.0

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing

Personnel On Board

Job Title	Personnel	Company	Pax
		DOGC	53
		BSOC	5
		ESS	8
		MI Swaco	2
		Dowell Schlumberger	2
		Fugro	6
		Dril-Quip	1
		Geoservices	4
		Sperry Sun	2
		Fugro	2
		RPS Hyrdrosearch	1
		Total	86

HSE Summary

Events	Date of last	Days Since	Descr.	Remarks
Abandon Drill	09 Oct 2005	6 Days		
Environmental Incident	21 Sep 2005	24 Days		
Fire Drill	09 Oct 2005	6 Days		
JSA Reviewed	15 Oct 2005	0 Days	Deck=7, Drill= 3	

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Printed on 09 Jan 2006

BASS STRAIT Oil
Oil for Australians

HSE Summary

Events	Date of last	Days Since	Descr.	Remarks
Man Overboard Drill	10 Sep 2005	35 Days		
STOP Card Received	15 Oct 2005	0 Days	Corrective= 2, Safe= 3	

Marine

Weather on 15 Oct 2005

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.00mi	5.0kn	225.0deg	1023mbar	15.0C°	0.1m	135.0deg	

Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments
0.5deg	0.5deg	0.50m	1.0m	0.0deg		

Rig Dir.	Ris. Tension	VDL	Comments
249.0deg		4550.0klb	

Rig Support

Anchors	Tension (klb)
1	229.0
2	198.0
3	161.0
4	181.0
5	220.0
6	223.0
7	236.0
8	229.0

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks
Far Grip			Working Ocean Patriot	

Item	Unit	Quantity
Fuel Oil	M3	532
Potable Water	M3	290
Drill Water	M3	542
Cement	MT	0
Cement Silica	MT	54
Barite	MT	54.5
Gel	MT	0

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks
Pacific Wrangler			Working Ocean Patriot	

Item	Unit	Quantity
Fuel Oil	M3	283.6
Potable Water	M3	170
Drill Water	M3	110
Cement	MT	0
Cement Silica	MT	
Barite	MT	0
Gel	MT	0

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Printed on 09 Jan 2006

BASS STRAIT OIL
Oil for Australians

16 Oct 2005 (GMT +10)

From: P. Dane / S. Rodda
To: C. Allport

DRILLING MORNING REPORT # 3
Maclean-1 (Vic/P47)

Well Data

Country	Australia	M. Depth	112.0m	Cur. Hole Size	36.000in	AFE Cost	$4,751,978
Field	Maclean	TVD	112.0m	Casing OD	20.000in	AFE No.	
Drill Co.	DOGC	Progress	33.5m	Shoe TVD	110.90m	Daily COST	$370,910
Rig	Ocean Patriot	Days from spud	0.85	FIT		Cum Cost	$2,069,159
Wtr Dpth(MSL)	57.0m	Days on well	2.42	LOT		Planned TD	771.0m
RT-MSL	21.5m					Days Since Last LTI	881
RT-ML	78.5m						

Current Op @ 0600: Drilling 17 ½" BHA.

Planned Op: Run 13 3/8" casing and cement same.

Summary of Period 0000 to 2400 Hrs

Drilled 36" hole. Ran and cemented 30" conductor. Picked up 17 ½" BHA.

Operations For Period 0000 Hrs to 2400 Hrs on 16 Oct 2005

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0200	2.00	CONH	P	RC	0.0m	Pick up 30" casing and hang off in moonpool.
0200	0330	1.50	CONH	P	TI	78.0m	Hold pre-spud JSA . Run in hole with 36" BHA and tag mudline. Mudline @ 78.5m R/T.
0330	0500	1.50	CONH	P	D	112.0m	Take survey 0°. Spud well. Drill 36" hole from 78.5m to 112m. Pump 50bbls PHG sweep mid and stand down.
0500	0600	1.00	CONH	P	CIR	112.0m	Sweep hole clean and take survey 1.5°. Ream hole 3x and re-shoot survey 1.5°.
0600	0730	1.50	CONH	P	TO	112.0m	Displace hole with 200bbls PHG, wiper trip from 112m to 78.5m. Displace hole with 200bbls PHG, and pull out to run 30" casing. Rack back BHA.
0730	0930	2.00	CON	P	RC	112.0m	Run 30" casing from moonpool on drillpipe. Shoe @ 110.9m.
0930	1000	0.50	CON	P	CIC	112.0m	Break circulation, bullseye reading 2°, move rig to correct bullseye. Final reading 0.75°.
1000	1100	1.00	CON	TU (CMT)	RR	112.0m	Unable to install cement hose as the bullplug on the side entry sub was too tight. Break off stand and put in mouse hole to correct problem.
1100	1230	1.50	CON	P	CMC	112.0m	Mix and pump cement, 180bbls of slurry @ 15.8ppg with 107bbls mix water.
1230	1730	5.00	CON	P	WOC	112.0m	Hold tension on 30" while wait on cement.
1730	1830	1.00	CON	P	TO	112.0m	Rig down cement hose and release R/T from 30" housing. Recover same.
1830	1900	0.50	CON	P	WH	112.0m	Adjust tension on guide lines, ROV take final readings of bullseye 1° port.
1900	1930	0.50	CON	P	LDP	112.0m	Lay down cement stinger under 30" R/T.
1930	2100	1.50	SH	P	HT	112.0m	Make up Deep Sea Express cement head and rack in derrick.
2100	2200	1.00	SH	P	HBHA	112.0m	Break off 26" bit and lay down 36" hole opener.
2200	2400	2.00	SH	P	HBHA	112.0m	Make up 17 1/2" BHA.

Operations For Period 0000 Hrs to 0600 Hrs on 17 Oct 2005

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0200	2.00	SH	P	HBHA	112.0m	Run in with 17 1/2" BHA and tag cement @ 107m.
0200	0300	1.00	SH	P	DFS	112.0m	Drill out cement and shoe and rat hole to 112m.
0300	0600	3.00	SH	P	D	355.0m	(IN PROGRESS) Drill 17 1/2" hole from 112m to 355m. Sweep 50bbls PHG mid-stand and 70bbls stand down.

Operations For Period Hrs to Hrs on

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BASS STRAIT Oil
Oil for Australians

WBM Data

Cost Today $ 5623

Mud Type:	Pre-Hydrated Gel	API FL:		Cl:		Solids:	
Sample-From:	Active	Filter-Cake:		Hard/Ca:		H2O:	
Time:	07:15	HTHP-FL:		MBT:		Oil:	
Weight:	1.03ppg	HTHP-cake:		PM:		Sand:	
Temp:	9.0C°			PF:		Glycol:	
				pH:		KCl:	
						PHPA:	

Viscosity	120sec/qt
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment

Total costs
17333.05

Shakers, Volumes and Losses Data

Engineer : J. Singh

Equip.	Descr.	Mesh Size
Shaker 1	4 x 52	
Shaker 2	3 x 52 , 1 x 84	
Shaker 3	4 x 84	
Shaker 4	4 x 84	

Available	**1629bbl**
Active Mixing	
Hole	
Slug	
Reserve	1629bbl
Kill	

Losses	**0bbl**
Downhole	
Surf+ Equip	0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Comments

Bit # 1

Wear	I	O1	D	L	B	G	O2	R
	0	0	NO	A	0	I	NO	TD

				Nozzles		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Size ("):	26.00in	IADC#	1-1-1	No.	Size	Progress	33.5m	Cum. Progress	33.5m
Mfr:	Reed	WOB(avg)	2.0klb	1	16/32nd"	On Bottom Hrs	0.80h	Cum. On Btm Hrs	0.80h
Type:	Roller Bearing	RPM(avg)	70	3	24/32nd"	IADC Drill Hrs		Cum IADC Drill Hrs	0.00h
Serial No.:	M26690	F.Rate	811gpm			Total Revs	3	Cum Total Revs	3
Bit Model	Y11C	SPP	833psi			ROP(avg)	41.88 m/hr	ROP(avg)	41.88 m/hr
Depth In	78.5m	HSI							
Depth Out	112.0m	TFA	1.522						

Bit # 2

Wear	I	O1	D	L	B	G	O2	R

				Nozzles		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Size ("):	17.50in	IADC#	1-1-5	No.	Size	Progress		Cum. Progress	0.0m
Mfr:	Reed	WOB(avg)		1	16/32nd"	On Bottom Hrs		Cum. On Btm Hrs	0.00h
Type:	Roller Bearing	RPM(avg)		3	22/32nd"	IADC Drill Hrs		Cum IADC Drill Hrs	0.00h
Serial No.:	X20970	F.Rate				Total Revs		Cum Total Revs	0
Bit Model	T11	SPP				ROP(avg)	N/A	ROP(avg)	0.00 m/hr
Depth In	112.0m	HSI							
Depth Out		TFA	1.310						

BHA # 1

Weight(Wet)	44.0klb	Length	228.8m	Torque(max)	6kft-lbs	D.C. (1) Ann Velocity	10.3mpm
Wt Below Jar(Wet)		String		Torque(Off.Btm)	4kft-lbs	D.C. (2) Ann Velocity	9.9mpm
		Pick-Up		Torque(On.Btm)	4kft-lbs	H.W.D.P. Ann Velocity	9.5mpm
		Slack-Off				D.P. Ann Velocity	9.3mpm

BHA Run Description: 26" bit, 36" hole opener, 7 5/8" reg box x box bit sub with ported float, 9½" Anderdrift with totco ring on top, 3 x 9½" drill collars, 7 5/8" reg pin x 6 5/8" reg box X/O, 3 x 8" drill collars, 6 5/8" reg pin x 4½" IF box X/O, 15 x 5" HWDP

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.62m	26.00in		M26690	
Hole Opener	2.16m	36.00in		17009	
Bit Sub	1.16m	9.50in		507A50	

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Equipment	Length	OD	ID	Serial #	Comment
Gyro	2.81m	9.44in	3.06in	ADB928	
Drill Collar	27.47m				
X/O	1.09m	2.93in		508A480	
Drill Collar	26.34m				
X/O	1.10m				
HWDP	166.01m				

BHA # 2

Weight(Wet)	44.0klb	Length	201.5m	Torque(max)	6kft-lbs	D.C. (1) Ann Velocity	0.0mpm
Wt Below Jar(Wet)	30.0klb	String	56.0klb	Torque(Off.Btm)	4kft-lbs	D.C. (2) Ann Velocity	0.0mpm
		Pick-Up	56.0klb	Torque(On.Btm)	4kft-lbs	H.W.D.P. Ann Velocity	0.0mpm
		Slack-Off	56.0klb			D.P. Ann Velocity	0.0mpm

BHA Run Description: 17½" tri-cone bit, 7 5/8" reg box x box bit sub, 2 x 9½" drill collars, 17" string stabiliser, 1 x 9½" drill collar, 7 5/8" reg pin x 6 5/8" reg box X/O, 8" LWD with DGR, EWR and Dir, 2 x 8" drill collars, 1 x 8" jar, 2 x 8" drill collars, 6 5/8" reg pin x 4½" IF box, 15 x 5" HWDP

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.47m	17.50in		X20970	
Bit Sub	1.16m	9.50in			
Drill Collar	18.18m	9.00in			
String Stabiliser	2.16m	17.00in			
Drill Collar	9.29m	9.00in			
X/O	1.09m	8.00in			
MWD	12.80m	8.00in			
Drill Collar	17.74m	8.00in			
Drilling Jars	9.05m	8.00in			
Drill Collar	17.74m	8.00in			
X/O	1.10m	8.00in			
HWDP	110.70m	5.00in			

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite	MT	0			110.3
Gel	MT	0	18.27	84.9	139.5
Cement	MT	0	32.84		192.8
Drill Water	m^3		93.9	0	703.1
Fuel Oil	m^3		10.7	0	362.3
Potable Water	m^3	26	26.1	0	230.9
Cement Silica	MT				0.0
Brine	m^3				0.0
Liquid Mud	m^3				0.0
Helicopter Fuel	ltr			6000	6,000.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (ppg)	Eff (%)	SPM	SPP (psi)	Flow (gpm)
1	OILWELL	6.00	8.40	97	73	1036	935
2	NATIONAL	6.00	8.40	97	73	1036	935
3	NATIONAL	6.00	8.40	97	73	1036	935

Slow Pump Data

Depth (m)	SPM1	SPP1 (psi)	Flow1(gpm)	SPM2	SPP2 (psi)	Flow2 (gpm)	SPM3	SPP3 (psi)	Flow3 (gpm)

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	110.90m /	

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BASS STRAIT Oil
Oil for Australians

Personnel On Board

Job Title	Personnel	Company	Pax
		DOGC	53
		BSOC	5
		ESS	8
		MI Swaco	2
		Dowell Schlumberger	2
		Fugro	6
		Dril-Quip	1
		Geoservices	4
		Sperry Sun	2
		Fugro	2
		RPS Hyrdrosearch	1
		Total	86

HSE Summary

Events	Date of last	Days Since	Descr.	Remarks
Abandon Drill	16 Oct 2005	0 Days		
Environmental Incident	21 Sep 2005	25 Days		
Fire Drill	16 Oct 2005	0 Days	EMERGENCY GENERATOR ROOM	
JSA Reviewed	16 Oct 2005	0 Days	Deck=7, Drill= 9	
Man Overboard Drill	10 Sep 2005	36 Days		
STOP Card Received	16 Oct 2005	0 Days	Corrective= 2, Safe= 1	

Marine

Weather on 16 Oct 2005

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.00mi	0.0kn	135.0deg	1025mbar	20.0C°	0.1m	135.0deg	

Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments
0.3deg	0.3deg	0.20m	0.5m	0.0deg		

Rig Dir.	Ris. Tension	VDL	Comments
249.0deg		4330.0klb	

Rig Support

Anchors	Tension (klb)
1	245.0
2	198.0
3	181.0
4	223.0
5	218.0
6	229.0
7	265.0
8	243.0

Boats	Arrived (date/time)	Departed (date/time)	Status
Far Grip			Working Ocean Patriot
Pacific Wrangler			Working Ocean Patriot

Far Grip — Bulks

Item	Unit	Quantity
Fuel Oil	M3	529
Potable Water	M3	287
Drill Water	M3	542
Cement	MT	0
Cement Silica	MT	54
Barite	MT	54.5
Gel	MT	0

Pacific Wrangler — Bulks

Item	Unit	Quantity
Fuel Oil	M3	277.3
Potable Water	M3	165
Drill Water	M3	110
Cement	MT	0
Cement Silica	MT	0
Barite	MT	0
Gel	MT	0

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BASS STRAIT Oil
Oil for Australians

17 Oct 2005 (GMT +10)

From: P. Dane / S. Rodda
To: C. Allport

DRILLING MORNING REPORT # 4
Maclean-1 (Vic/P47)

Well Data

Country	Australia	M. Depth	355.0m	Cur. Hole Size	12.250in	AFE Cost	$4,751,978
Field	Maclean	TVD	355.0m	Casing OD	13.375in	AFE No.	
Drill Co.	DOGC	Progress	243.0m	Shoe TVD	350.00m	Daily COST	$382,478
Rig	Ocean Patriot	Days from spud	1.85	FIT		Cum Cost	$2,451,637
Wtr Dpth(MSL)	57.0m	Days on well	3.42	LOT		Planned TD	771.0m
RT-MSL	21.5m					Days Since Last LTI	883
RT-ML	78.5m						

Current Op @ 0600: Running BOP's.

Planned Op: Run and test BOP's.

Summary of Period 0000 to 2400 Hrs

Drilled 17 ½" hole. Ran and cemented 13 3/8" casing.

Operations For Period 0000 Hrs to 2400 Hrs on 17 Oct 2005

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0200	2.00	SH	P	HBHA	112.0m	Run in with 17 1/2" BHA and tag cement @ 107m.
0200	0300	1.00	SH	P	DFS	112.0m	Drill out cement and shoe and rat hole to 112m.
0300	0930	6.50	SH	P	D	355.0m	Drill 17 1/2" hole from 112m to 355m. Sweep 50bbls PHG mid-stand and 70bbls stand down.
0930	1000	0.50	SH	P	CHC	355.0m	Sweep 150bbls PHG at TD and circulate hole clean. Displace well to PHG.
1000	1200	2.00	SH	P	TO	355.0m	Perform wiper trip from 355m to 111m, work tight spots clean at 291m, 286m, 264m, 227m. Run back to bottom, hole good.
1200	1230	0.50	SH	P	CHC	355.0m	Circulate hole clean and displace hole to PHG.
1230	1500	2.50	SH	P	TO	355.0m	Pull out with 17 1/2" BHA, download MWD and rack back same.
1500	1600	1.00	SC	P	RRC	355.0m	Hold safety meeting and rig up to run 13 3/8" casing.
1600	2130	5.50	SC	P	RC	355.0m	Run 13 3/8" casing, pick up 18 3/4" wellhead, install plugs, run and land wellhead into 30" housing. Confirm same with 50k o/pull. Bullseye on PGB reading 1.5°.
2130	2200	0.50	SC	P	CMC	355.0m	Attach cement hose to cement head, install operating hoses to Deep Sea Express dart launcher.
2200	2400	2.00	SC	P	CMC	355.0m	Circulate 150bbls seawater. Pump 20bbls dye and test lines with 2000 psi. Mix and pump 130 bbls lead slurry @ 12.5ppg with 103bbls mix water. Mix and pump 101bbls tail slurry @ 15.8ppg with 60.8bbls mix water. Release top dart and pump 10bbls drillwater.

Operations For Period 0000 Hrs to 0600 Hrs on 18 Oct 2005

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0100	1.00	SC	P	CMC	355.0m	Displace cement with 117bbls and bump plug with 500psi over final circulating pressure to 900psi. Attempt to test casing with 1500psi, slow leak, bleed off and check float holding.
0100	0200	1.00	SC	P	TO	355.0m	Rig down cement lines and release running tool and recover same.
0200	0300	1.00	SC	P	HT	355.0m	Lay down Deep Sea Express equipment.
0300	0600	3.00	IH	P	BOP	355.0m	Hold safety meeting, rig up to run marine riser, make up double of riser.

Operations For Period Hrs to Hrs on

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BASS STRAIT Oil
Oil for Australians

WBM Data

Cost Today $ 1000

Mud Type:	Pre-Hydrated Gel	API FL:		Cl:		Solids:	
Sample-From:	Active	Filter-Cake:		Hard/Ca:		H2O:	
Time:	21:45	HTHP-FL:		MBT:		Oil:	
Weight:	1.03ppg	HTHP-cake:		PM:		Sand:	
Temp:				PF:		Glycol:	
				pH:		KCl:	
						PHPA:	

Viscosity	120sec/qt
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment

Total costs
18332.67

Shakers, Volumes and Losses Data

Engineer : J. Singh

Equip.	Descr.	Mesh Size
Shaker 1	4 x 52	
Shaker 2	3 x 52 , 1 x 84	
Shaker 3	4 x 84	
Shaker 4	4 x 84	

Available	**311bbl**	**Losses**	**2046bbl**	Comments
Active Mixing		Downhole		
Hole		Surf+ Equip	0bbl	
Slug		Dumped	1316bbl	
Reserve	311bbl	De-Gasser		
Kill		De-Sander		
	730bbl	De-Silter		
		Centrifuge		

Bit # 2

Wear	I	O1	D	L	B	G	O2	R
	0	0	NO	A	0	I	NO	TD

				Nozzles		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Size ("):	17.50in	IADC#	1-1-5	No.	Size	Progress	243.0m	Cum. Progress	243.0m
Mfr:	Reed	WOB(avg)	5.2klb	1	16/32nd"	On Bottom Hrs	4.10h	Cum. On Btm Hrs	4.10h
Type:	Roller Bearing	RPM(avg)	118	3	22/32nd"	IADC Drill Hrs	6.50h	Cum IADC Drill Hrs	6.50h
Serial No.:	X20970	F.Rate	1112gpm			Total Revs	31	Cum Total Revs	31
Bit Model	T11	SPP	2181psi			ROP(avg)	59.27 m/hr	ROP(avg)	59.27 m/hr
Depth In	112.0m	HSI							
Depth Out	355.0m	TFA	1.310						

BHA # 2

Weight(Wet)	44.0klb	Length	201.5m	Torque(max)	6kft-lbs	D.C. (1) Ann Velocity	38.5mpm
Wt Below Jar(Wet)	30.0klb	String		Torque(Off.Btm)	4kft-lbs	D.C. (2) Ann Velocity	34.3mpm
		Pick-Up		Torque(On.Btm)	4kft-lbs	H.W.D.P. Ann Velocity	30.9mpm
		Slack-Off				D.P. Ann Velocity	29.5mpm

BHA Run Description

17½" tri-cone bit, 7 5/8" reg box x box bit sub, 2 x 9½" drill collars, 17" string stabiliser, 1 x 9½" drill collar, 7 5/8" reg pin x 6 5/8" reg box X/O, 8" LWD with DGR, EWR and Dir, 2 x 8" drill collars, 1 x 8" jar, 2 x 8" drill collars, 6 5/8" reg pin x 4½" IF box, 15 x 5" HWDP

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.47m	17.50in		X20970	
Bit Sub	1.16m	9.50in			
Drill Collar	18.18m	9.00in			
String Stabiliser	2.16m	17.00in			
Drill Collar	9.29m	9.00in			
X/O	1.09m	8.00in			
MWD	12.80m	8.00in			
Drill Collar	17.74m	8.00in			
Drilling Jars	9.05m	8.00in			
Drill Collar	17.74m	8.00in			
X/O	1.10m	8.00in			
HWDP	110.70m	5.00in			

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Printed on 09 Jan 2006

BASS STRAIT OIL
Oil for Australians

Survey

MD	Incl Deg	Corr. Az (deg)	TVD	'V' Sect	Dogleg (deg/100ft)	N/S	E/W	Tool Type
213.59	1.11	298.82	213.6					
242.12	0.77	292.08	242.1					
299.14	0.74	296.01	299.1					
310.49	0.70	293.91	310.4					
353.42	0.56	292.19	353.4					

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite	MT	0			110.3
Gel	MT	0	3.2	-60.1	76.2
Cement	MT	0	0		192.8
Drill Water	m³	250	250	0	703.1
Fuel Oil	m³		18.4	0	343.9
Potable Water	m³	27	25.6	0	232.3
Cement Silica	MT				0.0
Brine	m³				0.0
Liquid Mud	m³				0.0
Helicopter Fuel	ltr			0	6,000.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (ppg)	Eff (%)	SPM	SPP (psi)	Flow (gpm)
1	OILWELL	6.00	8.40	97	73	1036	935
2	NATIONAL	6.00	8.40	97	73	1036	935
3	NATIONAL	6.00	8.40	97	73	1036	935

Slow Pump Data

Depth (m)	SPM1	SPP1 (psi)	Flow1(gpm)	SPM2	SPP2 (psi)	Flow2 (gpm)	SPM3	SPP3 (psi)	Flow3 (gpm)

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	110.90m /	
13.38	/	350.00m / 350.00m	

Personnel On Board

Job Title	Personnel	Company	Pax
		DOGC	50
		BSOC	5
		ESS	8
		MI Swaco	2
		Dowell Schlumberger	2
		Fugro	6
		Dril-Quip	1
		Geoservices	5
		Sperry Sun	3
		Weatherford	3
		Total	85

HSE Summary

Events	Date of last	Days Since	Descr.	Remarks
Abandon Drill	16 Oct 2005	1 Day		
Environmental Incident	21 Sep 2005	26 Days		
Fire Drill	16 Oct 2005	1 Day	EMERGENCY GENERATOR ROOM	
JSA Reviewed	17 Oct 2005	0 Days	Deck=10, Drill= 8, Tech=0	
Man Overboard Drill	10 Sep 2005	37 Days		

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BASS STRAIT Oil
Oil for Australians

HSE Summary

Events	Date of last	Days Since	Descr.	Remarks
STOP Card Received	17 Oct 2005	0 Days	Corrective= 0, Safe=1	

Marine

Weather on 17 Oct 2005

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.00mi	20.0kn	90.0deg	1022mbar	18.0C°	1.0m	68.0deg	

Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments
0.4deg	0.4deg	0.30m	1.5m	0.0deg		

Rig Dir.	Ris. Tension	VDL	Comments
249.0deg		4132.0klb	

Rig Support

Anchors	Tension (klb)
1	234.0
2	185.0
3	183.0
4	227.0
5	218.0
6	245.0
7	258.0
8	231.0

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks
Far Grip			Working Ocean Patriot	

Item	Unit	Quantity
Fuel Oil	M3	375
Potable Water	M3	284
Drill Water	M3	292
Cement	MT	0
Cement Silica	MT	54
Barite	MT	54.5
Gel	MT	0

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks
Pacific Wrangler			Working Ocean Patriot	

Item	Unit	Quantity
Fuel Oil	M3	271
Potable Water	M3	160
Drill Water	M3	110
Cement	MT	0
Cement Silica	MT	0
Barite	MT	0
Gel	MT	0

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow	09:04 / 09:30	5 / 6	

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BASS STRAIT Oil
Oil for Australians

18 Oct 2005 (GMT +10)

From: P. Dane / S. Rodda
To: C. Allport

DRILLING MORNING REPORT # 5
Maclean-1 (Vic/P47)

Well Data

Country	Australia	M. Depth	355.0m	Cur. Hole Size	12.250in	AFE Cost	$4,751,978
Field	Maclean	TVD	355.0m	Casing OD	13.375in	AFE No.	
Drill Co.	DOGC	Progress	0.0m	Shoe TVD	350.00m	Daily COST	$317,960
Rig	Ocean Patriot	Days from spud	2.85	FIT		Cum Cost	$2,769,597
Wtr Dpth(MSL)	57.0m	Days on well	4.42	LOT		Planned TD	771.0m
RT-MSL	21.5m					Days Since Last LTI	881
RT-ML	78.5m						

Current Op @ 0600: Drilling 12 ¼" hole.

Planned Op: Drill 12 ¼" hole to well TD.

Summary of Period 0000 to 2400 Hrs

Cemented 13 3/8" casing. Ran BOP'S. Made up 12 ¼" BHA.

Operations For Period 0000 Hrs to 2400 Hrs on 18 Oct 2005

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0100	1.00	SC	P	CMC	355.0m	Displace cement with 117bbls and bump plug with 500psi over final circulating pressure to 900psi. Attempt to test casing with 1500psi, slow leak, bleed off and check float holding.
0100	0200	1.00	SC	P	TO	355.0m	Rig down cement lines and release running tool and recover same.
0200	0300	1.00	SC	P	HT	355.0m	Lay down Deep Sea Express equipment.
0300	0600	3.00	IH	P	BOP	355.0m	Hold safety meeting, rig up to run marine riser, make up double of riser.
0600	1400	8.00	IH	P	BOP	355.0m	Run BOP'S, install choke and kill and booster lines and P/Test same with 250/3000psi 5/10mins. Lock in tensioner ring, install storm saddles to pod hoses.
1400	1600	2.00	IH	P	BOP	355.0m	Install RBQ plates on pod reels. Latch BOP and confirm with 50kips overpull on both pods. Close shear rams and perform 250/1500psi, 5/10min test on connector against casing. Good test.
1600	1800	2.00	IH	P	BOP	355.0m	Stroke out slip joint and lay down handling joint and install diverter. Rig down riser handling equipment.
1800	1930	1.50	IH	P	BT	355.0m	Run in hole test plug with 4 stands HWDP and set plug in wellhead @ 75m.
1930	2100	1.50	IH	P	BT	355.0m	Close middle pipe ram and test connector with 250/3000psi, 5/10min. Good test. Pull out with test plug.
2100	2230	1.50	IH	P	HBHA	355.0m	Lay down 17 1/2" BHA.
2230	2400	1.50	IH	P	HBHA	355.0m	Make up 12 1/4" BHA.

Operations For Period 0000 Hrs to 0600 Hrs on 19 Oct 2005

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0200	2.00	IH	P	HBHA	355.0m	Make up 12 1/4" BHA.
0200	0230	0.50	IH	P	BT	355.0m	Function test diverter.
0230	0300	0.50	IH	P	TI	355.0m	Run in hole and tag cement @ 314m.
0300	0600	3.00	IH	P	DFS	355.0m	(IN PROGRESS) Drill cement plugs and float equipment and clean out rathole from 314m to 355m.

Operations For Period Hrs to Hrs on

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BASS STRAIT Oil
Oil for Australians

WBM Data

Cost Today $ 0

Mud Type:	Pre-Hydrated Gel	API FL:		Cl:		Solids:	
Sample-From:	Active	Filter-Cake:		Hard/Ca:		H2O:	
Time:	21:30	HTHP-FL:		MBT:		Oil:	
Weight:	1.03ppg	HTHP-cake:		PM:		Sand:	
Temp:				PF:		Glycol:	
				pH:		KCl:	
						PHPA:	

Viscosity	120sec/qt
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment

Total costs
18332.67

Shakers, Volumes and Losses Data

Engineer : J. Singh

Equip.	Descr.	Mesh Size
Shaker 1	4 x 52	
Shaker 2	3 x 52 , 1 x 84	
Shaker 3	4 x 84	
Shaker 4	4 x 84	

				Comments
Available	**311bbl**	**Losses**	**2046bbl**	
Active Mixing		Downhole		
		Surf+ Equip	0bbl	
Hole		Dumped	1316bbl	
Slug		De-Gasser		
Reserve	311bbl	De-Sander		
Kill		De-Silter		
	730bbl	Centrifuge		

Bit # 2

Wear	I	O1	D	L	B	G	O2	R
	0	0	NO	A	0	I	NO	TD

				Nozzles		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Size (''):	17.50in	IADC#	1-1-5	No.	Size	Progress	0.0m	Cum. Progress	243.0m
Mfr:	Reed	WOB(avg)	5.2klb	1	16/32nd"	On Bottom Hrs	0.00h	Cum. On Btm Hrs	4.10h
Type:	Roller Bearing	RPM(avg)	118	3	22/32nd"	IADC Drill Hrs	0.00h	Cum IADC Drill Hrs	6.50h
Serial No.:	X20970	F.Rate	1112gpm			Total Revs	31	Cum Total Revs	62
Bit Model	T11	SPP	2181psi			ROP(avg)	N/A	ROP(avg)	59.27 m/hr
Depth In	112.0m	HSI							
Depth Out	355.0m	TFA	1.310						

Bit # 3

Wear	I	O1	D	L	B	G	O2	R

				Nozzles		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Size (''):	12.25in	IADC#	4-1-7	No.	Size	Progress		Cum. Progress	0.0m
Mfr:	Reed	WOB(avg)		1	28/32nd"	On Bottom Hrs		Cum. On Btm Hrs	0.00h
Type:	Roller Bearing	RPM(avg)		2	24/32nd"	IADC Drill Hrs		Cum IADC Drill Hrs	0.00h
Serial No.:	NR2008	F.Rate				Total Revs		Cum Total Revs	0
Bit Model	EHP41HK	SPP				ROP(avg)	N/A	ROP(avg)	0.00 m/hr
Depth In	355.0m	HSI							
Depth Out		TFA	1.485						

BHA # 2

Weight(Wet)	44.0klb	Length	201.5m	Torque(max)	6kft-lbs	D.C. (1) Ann Velocity	38.5mpm
Wt Below Jar(Wet)	30.0klb	String	5.0klb	Torque(Off.Btm)	4kft-lbs	D.C. (2) Ann Velocity	34.3mpm
		Pick-Up		Torque(On.Btm)	4kft-lbs	H.W.D.P. Ann Velocity	30.9mpm
		Slack-Off				D.P. Ann Velocity	29.5mpm

BHA Run Description

17½" tri-cone bit, 7 5/8" reg box x box bit sub, 2 x 9½" drill collars, 17" string stabiliser, 1 x 9½" drill collar, 7 5/8" reg pin x 6 5/8" reg box X/O, 8" LWD with DGR, EWR and Dir, 2 x 8" drill collars, 1 x 8" jar, 2 x 8" drill collars, 6 5/8" reg pin x 4½" IF box, 15 x 5" HWDP

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.47m	17.50in		X20970	

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Equipment	Length	OD	ID	Serial #	Comment
Bit Sub	1.16m	9.50in			
Drill Collar	18.18m	9.00in			
String Stabiliser	2.16m	17.00in			
Drill Collar	9.29m	9.00in			
X/O	1.09m	8.00in			
MWD	12.80m	8.00in			
Drill Collar	17.74m	8.00in			
Drilling Jars	9.05m	8.00in			
Drill Collar	17.74m	8.00in			
X/O	1.10m	8.00in			
HWDP	110.70m	5.00in			

BHA # 3

Weight(Wet)	50.0klb	Length	252.7m	Torque(max)		D.C. (1) Ann Velocity	
Wt Below Jar(Wet)	33.0klb	String		Torque(Off.Btm)		D.C. (2) Ann Velocity	
		Pick-Up		Torque(On.Btm)		H.W.D.P. Ann Velocity	
		Slack-Off				D.P. Ann Velocity	

BHA Run Description	12¼" insert bit, 6 5/8" reg box x box bit sub, 8" LWD with DGR, EWR and Dir, 1 x 12¼" string stabiliser, 8 x 8" drill collars, 1 x 8" jar, 2 x 8" drill collars, 6 5/8" Reg pin x 4½" IF box, 15 x 5" HWDP
BHA Run Comment	BIT #3 R/R.

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.35m	12.25in			
Bit Sub	1.02m	8.00in			
MWD	12.99m	8.00in			
String Stabiliser	2.15m	12.25in			
Drill Collar	70.48m	8.00in			
Drilling Jars	9.05m	9.00in			
Drill Collar	17.47m	8.00in			
X/O	1.10m	8.00in			
HWDP	138.10m	5.00in			

Survey

MD	Incl Deg	Corr. Az (deg)	TVD	'V' Sect	Dogleg (deg/100ft)	N/S	E/W	Tool Type
213.59	1.11	298.82	213.6					
242.12	0.77	292.08	242.1					
299.14	0.74	296.01	299.1					
310.49	0.70	293.91	310.4					
353.42	0.56	292.19	353.4					

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite	MT	0	1.89		108.4
Gel	MT	0	0	23.78	99.9
Cement	MT	0	29.98		162.8
Drill Water	m^3	0	153	0	550.1
Fuel Oil	m^3	0	10.8	0	333.1
Potable Water	m^3	0	0	0	232.3
Cement Silica	MT				0.0
Brine	m^3				0.0
Liquid Mud	m^3				0.0
Helicopter Fuel	ltr		487	0	5,513.0

Pumps

Pump Data - Last 24 Hrs								Slow Pump Data								
No.	Type	Liner (in)	MW (ppg)	Eff (%)	SPM	SPP (psi)	Flow (gpm)	Depth (m)	SPM1	SPP1 (psi)	Flow1(gpm)	SPM2	SPP2 (psi)	Flow2 (gpm)	SPM3	SPP3 (psi)	Flow3 (gpm)

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BASS STRAIT Oil
Oil for Australians

Pumps

Pump Data - Last 24 Hrs

								Slow Pump Data									
1	OILWELL	6.00	8.40	97	73	1036	935										
2	NATIONAL	6.00	8.40	97	73	1036	935										
3	NATIONAL	6.00	8.40	97	73	1036	935										

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	110.90m /	
13.38	/	350.00m / 350.00m	

Personnel On Board

Job Title	Personnel	Company	Pax
		DOGC	51
		BSOC	5
		ESS	8
		MI Swaco	2
		Dowell Schlumberger	3
		Fugro	6
		Dril-Quip	1
		Geoservices	5
		Sperry Sun	3
		Weatherford	3
		Schlumberger	4
		Petrotech	2
		Total	93

HSE Summary

Events	Date of last	Days Since	Descr.	Remarks
Abandon Drill	16 Oct 2005	2 Days		
Environmental Incident	21 Sep 2005	27 Days		
Fire Drill	16 Oct 2005	2 Days	EMERGENCY GENERATOR ROOM	
JSA Reviewed	18 Oct 2005	0 Days	Deck=10, Drill= 8, Tech=0	
Man Overboard Drill	10 Sep 2005	38 Days		
STOP Card Received	18 Oct 2005	0 Days	Corrective= 0 Safe=1	

Marine

Weather on 18 Oct 2005

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.00mi	30.0kn	90.0deg	1025mbar	16.0C°	2.0m	90.0deg	

Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments
0.5deg	0.6deg	0.30m	2.0m	90.0deg		

Rig Dir.	Ris. Tension	VDL	Comments
249.0deg		4088.0klb	

Rig Support

Anchors	Tension (klb)
1	176.0
2	159.0
3	216.0
4	243.0
5	254.0
6	203.0
7	251.0
8	240.0

Boats	Arrived (date/time)	Departed (date/time)	Status
Far Grip			Working Ocean Patriot
Pacific Wrangler			Melbourne

Bulks

Item	Unit	Quantity
Fuel Oil	M3	369
Potable Water	M3	280
Drill Water	M3	292
Cement	MT	0
Cement Silica	MT	54
Barite	MT	54.5
Gel	MT	0

Item	Unit	Quantity
Fuel Oil	M3	271
Potable Water	M3	160

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				Item	Unit	Quantity
				Drill Water	M3	110
				Cement	MT	0
				Cement Silica	MT	0
				Barite	MT	0
				Gel	MT	0

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow	11:15 / 11:35	17 / 12	

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BASS STRAIT Oil
Oil for Australians

19 Oct 2005 (GMT +10)

From: P. Dane / S. Rodda
To: C. Allport

DRILLING MORNING REPORT # 6

Maclean-1 (Vic/P47)

Well Data

Country	Australia	M. Depth	766.0m	Cur. Hole Size	12.250in	AFE Cost	$4,751,978
Field	Maclean	TVD	766.0m	Casing OD	13.375in	AFE No.	
Drill Co.	DOGC	Progress	318.0m	Shoe TVD	350.00m	Daily COST	$436,559
Rig	Ocean Patriot	Days from spud	3.85	FIT	13.80ppg	Cum Cost	$3,206,156
Wtr Dpth(MSL)	57.0m	Days on well	5.42	LOT		Planned TD	771.0m
RT-MSL	21.5m					Days Since Last LTI	883
RT-ML	78.5m						

Current Op @ 0600: Drilling 12 ¼" hole.

Planned Op: Pull out to P & A well.

Summary of Period 0000 to 2400 Hrs

Performed FIT, drilled 12 ¼" hole.

Operations For Period 0000 Hrs to 2400 Hrs on 19 Oct 2005

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0200	2.00	IH	P	HBHA	355.0m	Make up 12 1/4" BHA.
0200	0230	0.50	IH	P	BT	355.0m	Function test diverter.
0230	0300	0.50	IH	P	TI	355.0m	Run in hole and tag cement @ 314m.
0300	0630	3.50	IH	P	DFS	355.0m	Drill cement plugs and float equipment and clean out rathole from 314m to 355m.
0630	0730	1.00	IH	P	D	358.0m	Drill 12 1/4" hole from 355m to 358m. Sweep hole clean with PHG, chase with 100bbls seawater, displace hole with PHPA mud.
0730	0830	1.00	IH	P	LOT	358.0m	Perform F.I.T. with 8.7ppg mud. Surface pressure 305psi = EMW 13.8ppg.
0830	2400	15.50	IH	P	D	673.0m	Drill 12 1/4" hole from 358m to 673m. Backream each stand. Control drill for MWD logs from 600m to 673m @ 25m/hr.

Operations For Period 0000 Hrs to 0600 Hrs on 20 Oct 2005

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0600	6.00	IH	P	D	766.0m	Drill 12 1/4" hole from 673m to 766m. Control drill @ 25m/hr for MWD logs.

Operations For Period Hrs to Hrs on

WBM Data

Cost Today $ 28609

Mud Type:	PHPA	API FL:	1.0cc	Cl:	39000.0mg/l	Solids:	3	Viscosity	60sec/qt
Sample-From:	Active	Filter-Cake:	1/32nd"	Hard/Ca:	440.0mg/l	H2O:	97%	PV	15cp
Time:	21:00	HTHP-FL:		MBT:	5	Oil:		YP	24lb/100ft²
Weight:	1.06ppg	HTHP-cake:		PM:	0.4	Sand:		Gels 10s	7
Temp:	27.0C°			PF:	0.2	Glycol:		Gels 10m	10
				pH:	10	KCl:	6%	Fann 003	8
						PHPA:	1ppb	Fann 006	10
								Fann 100	25
								Fann 200	33
								Fann 300	39
								Fann 600	54

Comment

Total costs
46941.36

Shakers, Volumes and Losses Data

Engineer : J. Singh

Equip.	Descr.	Mesh Size
Shaker 1	4 x 110	
Shaker 2	2 x 165 , 2 x 84	
Shaker 3	4 x 84	
Shaker 4	4 x 84	

Available	**1130bbl**
Active	752bbl
Mixing	
Hole	
Slug	
Reserve	378bbl
Kill	

Losses	**263bbl**
Downhole	
Surf+ Equip	263bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Comments

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BASS STRAIT Oil
Oil for Australians

Bit # 3

Wear	I	O1	D	L	B	G	O2	R

Size ("):	12.25in	IADC#	4-1-7	**Nozzles**		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Mfr:	Reed	WOB(avg)	14.8klb	No.	Size	Progress	318.0m	Cum. Progress	318.0m
Type:	Roller Bearing	RPM(avg)	125	1	28/32nd"	On Bottom Hrs	12.40h	Cum. On Btm Hrs	12.40h
Serial No.:	NR2008	F.Rate	950gpm	2	24/32nd"	IADC Drill Hrs	15.50h	Cum IADC Drill Hrs	15.50h
Bit Model	EHP41HK	SPP	1460psi			Total Revs	130	Cum Total Revs	130
Depth In	355.0m	HSI				ROP(avg)	25.65 m/hr	ROP(avg)	25.65 m/hr
Depth Out		TFA	1.485						

BHA # 3

Weight(Wet)	50.0klb	Length	252.7m	Torque(max)	6kft-lbs	D.C. (1) Ann Velocity	
Wt Below Jar(Wet)	33.0klb	String	17.0klb	Torque(Off.Btm)	4kft-lbs	D.C. (2) Ann Velocity	
		Pick-Up	190.0klb	Torque(On.Btm)	4kft-lbs	H.W.D.P. Ann Velocity	
		Slack-Off	190.0klb			D.P. Ann Velocity	

BHA Run Description	12¼" insert bit, 6 5/8" reg box x box bit sub, 8" LWD with DGR, EWR and Dir, 1 x 12¼" string stabiliser, 8 x 8" drill collars, 1 x 8" jar, 2 x 8" drill collars, 6 5/8" Reg pin x 4½" IF box, 15 x 5" HWDP
BHA Run Comment	BIT #3 R/R.

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.35m	12.25in			
Bit Sub	1.02m	8.00in			
MWD	12.99m	8.00in			
String Stabiliser	2.15m	12.25in			
Drill Collar	70.48m	8.00in			
Drilling Jars	9.05m	9.00in			
Drill Collar	17.47m	8.00in			
X/O	1.10m	8.00in			
HWDP	138.10m	5.00in			

Survey

MD	Incl Deg	Corr. Az (deg)	TVD	'V' Sect	Dogleg (deg/100ft)	N/S	E/W	Tool Type
555.05	0.28	329.55	555.0					
583.55	0.27	340.51	583.5					
611.79	0.20	330.07	611.7					
640.29	0.06	295.87	640.2					
669.26	0.22	352.26	669.2					

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite	MT	0	0		108.4
Gel	MT	0	12.73	0	87.2
Cement	MT	0	0		162.8
Drill Water	m³	0	39.7	31	541.4
Fuel Oil	m³	0	15	114.9	433.0
Potable Water	m³	0	0	0	232.3
Cement Silica	MT				0.0
Brine	m³				0.0
Liquid Mud	m³				0.0
Helicopter Fuel	ltr		351	-590	4,572.0

Pumps

Pump Data - Last 24 Hrs								Slow Pump Data									
No.	Type	Liner (in)	MW (ppg)	Eff (%)	SPM	SPP (psi)	Flow (gpm)	Depth (m)	SPM1	SPP1 (psi)	Flow1(gpm)	SPM2	SPP2 (psi)	Flow2 (gpm)	SPM3	SPP3 (psi)	Flow3 (gpm)

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Oil for Australians

Pumps

Pump Data - Last 24 Hrs

								Slow Pump Data										
1	OILWELL	6.00	8.90	97	80	1770	935	358.0	40	120								
2	NATIONAL	6.00	8.90	97	70	1770	935	358.0	50	140								
3	NATIONAL	6.00	8.90	97	73	1770	935	652.0	20	140								

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	110.90m /	
13.38	/	350.00m / 350.00m	

Personnel On Board

Job Title	Personnel	Company	Pax
		DOGC	50
		BSOC	5
		ESS	8
		MI Swaco	2
		Dowell Schlumberger	3
		Fugro	6
		Dril-Quip	1
		Geoservices	5
		Sperry Sun	3
		Schlumberger	4
		Petrotech	2
		Total	89

HSE Summary

Events	Date of last	Days Since	Descr.	Remarks
Abandon Drill	16 Oct 2005	3 Days		
Environmental Incident	21 Sep 2005	28 Days		
Fire Drill	16 Oct 2005	3 Days	EMERGENCY GENERATOR ROOM	
JSA Reviewed	19 Oct 2005	0 Days	Deck=9, Drill= 6, Tech=0	
Man Overboard Drill	10 Sep 2005	39 Days		
STOP Card Received	19 Oct 2005	0 Days	Corrective= 5, Safe= 3	

Marine

Weather on 19 Oct 2005

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.00mi	15.0kn	90.0deg	1018mbar	16.0C°	1.0m	90.0deg	

Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments
0.4deg	0.4deg	0.30m	2.5m	90.0deg		

Rig Dir.	Ris. Tension	VDL	Comments
249.0deg		3940.0klb	

Rig Support

Anchors	Tension (klb)
1	192.0
2	165.0
3	238.0
4	240.0
5	227.0
6	220.0
7	291.0
8	240.0

Boats	Arrived (date/time)	Departed (date/time)	Status
Far Grip			Working Ocean Patriot
Pacific Wrangler			Melbourne

Bulks

Item	Unit	Quantity
Fuel Oil	M3	363
Potable Water	M3	277
Drill Water	M3	292
Cement	MT	0
Cement Silica	MT	54
Barite	MT	54.5
Gel	MT	0

Item	Unit	Quantity
Fuel Oil	M3	271
Potable Water	M3	160
Drill Water	M3	110

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				Item	Unit	Quantity
				Cement	MT	0
				Cement Silica	MT	0
				Barite	MT	0
				Gel	MT	0

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Medivac	1550 / 1630	0 / 1	Medivac.

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BASS STRAIT Oil
Oil for Australians

20 Oct 2005 (GMT +10)

From: P. Dane / S. Rodda
To: C. Allport

DRILLING MORNING REPORT # 7
Maclean-1 (Vic/P47)

Well Data

Country	Australia	M. Depth	766.0m	Cur. Hole Size	12.250in	AFE Cost	$4,751,978
Field	Maclean	TVD	766.0m	Casing OD	13.375in	AFE No.	
Drill Co.	DOGC	Progress	93.0m	Shoe TVD	350.00m	Daily COST	$250,729
Rig	Ocean Patriot	Days from spud	4.85	FIT	13.80ppg	Cum Cost	$3,456,885
Wtr Dpth(MSL)	57.0m	Days on well	6.42	LOT		Planned TD	771.0m
RT-MSL	21.5m					Days Since Last LTI	885
RT-ML	78.5m						

Current Op @ 0600: Run 13 3/8" bridge plug, set #3 cement plug.

Planned Op: Pull BOP's. Complete P&A well.

Summary of Period 0000 to 2400 Hrs

Drilled 12 ¼" hole to TD. Started P&A program.

Operations For Period 0000 Hrs to 2400 Hrs on 20 Oct 2005

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0600	6.00	IH	P	D	766.0m	Drill 12 1/4" hole from 673m to 766m. Control drill @ 25m/hr for MWD logs.
0600	0630	0.50	IH	P	CIR	766.0m	Circulate bottoms up and flow check.
0630	0900	2.50	IH	P	TO	766.0m	Pull out from 766m to 622m, backream from 622m to 350m due to excessive drag.
0900	1000	1.00	IH	P	TO	766.0m	Circulate hole clean, flow check and pump slug.
1000	1300	3.00	IH	P	HBHA	766.0m	Pull out from 350m, download MWD and lay down same. Rack back BHA.
1300	1530	2.50	PA	P	TI	766.0m	Make up mule shoe and run in hole OEDP to 766m.
1530	1700	1.50	PA	P	CMP	766.0m	Make up cement line and pressure test same with 1000psi. Mix and pump cement plug #1a. Mix and pump 62.4bbls slurry @ 15.8ppg, 304sx Class G, with 36bbls mix water.
1700	1830	1.50	PA	P	CMP	766.0m	Pull back from 766m to 666m, circulate 40bbls, rig up cement line and pressure test with 1000psi. Mix and pump cement plug #1b. Mix and pump 62.4bbls slurry @ 15.8ppg, 304sx Class G, with 36bbls mix water.
1830	1930	1.00	PA	P	CIR	766.0m	Pull back from 666m to 530m and circulate hole clean, no cement returns. Pull back to 500m and spot 60bbls hi-vis.
1930	2030	1.00	PA	P	CMP	766.0m	Pull back from 500m to 400m rig up cement line and pressure test with 1000psi. Mix and pump cement plug #2. Mix and pump 65bbls slurry @ 15.8ppg 314sx Class G, with 38bbls mix water.
2030	2100	0.50	PA	P	CIR	766.0m	Pull back 400m to 270m and circulate hole clean, no cement returns.
2100	2400	3.00	PA	P	WOC	766.0m	Wait on cement. Pull out and lay down excess drillpipe and drill collars.

Operations For Period 0000 Hrs to 0600 Hrs on 21 Oct 2005

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0130	1.50	PA	P	WOC	766.0m	Lay down excess drill collars. Lay down hangoff tool.
0130	0230	1.00	PA	P	TI	766.0m	Run in hole with cement stinger and tag cement at 274m with 5000lbs.
0230	0300	0.50	PA	P	CIR	766.0m	Circulate well to inhibited mud.
0300	0500	2.00	PA	P	LDP	766.0m	Lay down all excess drillpipe.
0500	0600	1.00	PA	P	TI	766.0m	(IN PROGRESS) Make up and run 13 3/8" bridge plug to 148m and set same. Pressure test with 1000psi. Good test.

Operations For Period Hrs to Hrs on

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BASS STRAIT Oil
Oil for Australians

WBM Data

Cost Today $ 2586

Mud Type:	PHPA	API FL:	1.0cc	Cl:	38000.0mg/l	Solids:	4	Viscosity	67sec/qt
Sample-From:	Active	Filter-Cake:	1/32nd"	Hard/Ca:	400.0mg/l	H2O:	96%	PV	15cp
Time:	15:00	HTHP-FL:		MBT:	8	Oil:		YP	27lb/100ft²
Weight:	1.09ppg	HTHP-cake:		PM:	0.3	Sand:		Gels 10s	8
Temp:	27.0C°			PF:	0.03	Glycol:		Gels 10m	14
				pH:	8.5	KCl:	7%	Fann 003	8
						PHPA:	1ppb	Fann 006	10
								Fann 100	27
								Fann 200	36
								Fann 300	42
								Fann 600	57

Comment

Total costs
49526.94

Shakers, Volumes and Losses Data

Engineer : J. Singh

Equip.	Descr.	Mesh Size
Shaker 1	4 x 110	
Shaker 2	2 x 165 , 2 x 84	
Shaker 3	4 x 84	
Shaker 4	4 x 84	

Available	**1027bbl**
Active	826bbl
Mixing	
Hole	
Slug	
Reserve	201bbl
Kill	

Losses	**113bbl**
Downhole	
Surf+ Equip	113bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Comments

Bit # 3

Wear	I	O1	D	L	B	G	O2	R
	2	3	WT	S	E	I	NO	TD

Size ("):	12.25in	IADC#	4-1-7
Mfr:	Reed	WOB(avg)	14.8klb
Type:	Roller Bearing	RPM(avg)	118
Serial No.:	NR2008	F.Rate	852gpm
Bit Model	EHP41HK	SPP	1720psi
Depth In	355.0m	HSI	
Depth Out	766.0m	TFA	1.485

Nozzles

No.	Size
1	28/32nd"
2	24/32nd"

Drilled over last 24 hrs

Progress	93.0m
On Bottom Hrs	4.00h
IADC Drill Hrs	6.00h
Total Revs	130
ROP(avg)	23.25 m/hr

Calculated over Bit Run

Cum. Progress	411.0m
Cum. On Btm Hrs	16.40h
Cum IADC Drill Hrs	21.50h
Cum Total Revs	260
ROP(avg)	25.06 m/hr

BHA # 3

Weight(Wet)	50.0klb	Length	252.7m	Torque(max)	6kft-lbs	D.C. (1) Ann Velocity	
Wt Below Jar(Wet)	33.0klb	String	17.0klb	Torque(Off.Btm)	4kft-lbs	D.C. (2) Ann Velocity	
		Pick-Up	190.0klb	Torque(On.Btm)	4kft-lbs	H.W.D.P. Ann Velocity	
		Slack-Off	190.0klb			D.P. Ann Velocity	

BHA Run Description: 12¼" insert bit, 6 5/8" reg box x box bit sub, 8" LWD with DGR, EWR and Dir, 1 x 12¼" string stabiliser, 8 x 8" drill collars, 1 x 8" jar, 2 x 8" drill collars, 6 5/8" Reg pin x 4½" IF box, 15 x 5" HWDP

BHA Run Comment: BIT #3 R/R.

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.35m	12.25in			
Bit Sub	1.02m	8.00in			
MWD	12.99m	8.00in			
String Stabiliser	2.15m	12.25in			
Drill Collar	70.48m	8.00in			
Drilling Jars	9.05m	9.00in			
Drill Collar	17.47m	8.00in			
X/O	1.10m	8.00in			
HWDP	138.10m	5.00in			

Survey

MD	Incl Deg	Corr. Az (deg)	TVD	'V' Sect	Dogleg (deg/100ft)	N/S	E/W	Tool Type
555.05	0.28	329.55	555.0					

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Printed on 09 Jan 2006

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Survey

MD	Incl Deg	Corr. Az (deg)	TVD	'V' Sect	Dogleg (deg/100ft)	N/S	E/W	Tool Type
583.55	0.27	340.51	583.5					
611.79	0.20	330.07	611.7					
640.29	0.06	295.87	640.2					
669.26	0.22	352.26	669.2					

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite	MT	0	0		108.4
Gel	MT	0	0	0	87.2
Cement	MT	0	0		162.8
Drill Water	m³	0	0	0	541.4
Fuel Oil	m³	0	11	0	422.0
Potable Water	m³	25	26.4	0	230.9
Cement Silica	MT				0.0
Brine	m³				0.0
Liquid Mud	m³				0.0
Helicopter Fuel	ltr		560		4,012.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (ppg)	Eff (%)	SPM	SPP (psi)	Flow (gpm)
1	OILWELL	6.00	9.07	97	73	1730	935
2	NATIONAL	6.00	9.07	97	73	1730	935
3	NATIONAL	6.00	9.07	97	73	1730	935

Slow Pump Data

Depth (m)	SPM1	SPP1 (psi)	Flow1(gpm)	SPM2	SPP2 (psi)	Flow2 (gpm)	SPM3	SPP3 (psi)	Flow3 (gpm)

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	110.90m /	
13.38	/	350.00m / 350.00m	

Personnel On Board

Job Title	Personnel	Company	Pax
		DOGC	51
		BSOC	5
		ESS	8
		MI Swaco	2
		Dowell Schlumberger	3
		Fugro	6
		Dril-Quip	1
		Geoservices	3
		Sperry Sun	3
		Schlumberger	2
		Smith Tool Company	1
		Total	85

HSE Summary

Events	Date of last	Days Since	Descr.	Remarks
Abandon Drill	16 Oct 2005	4 Days		
Environmental Incident	21 Sep 2005	29 Days		
Fire Drill	16 Oct 2005	4 Days	EMERGENCY GENERATOR ROOM	
JSA Reviewed	20 Oct 2005	0 Days	Deck=10, Drill= 4, Tech=0	
Man Overboard Drill	10 Sep 2005	40 Days		

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BASS STRAIT Oil
Oil for Australians

HSE Summary

Events	Date of last	Days Since	Descr.	Remarks
STOP Card Received	20 Oct 2005	0 Days	Corrective= 0, Safe= 3	

Marine

Weather on 20 Oct 2005

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.00mi	15.0kn	112.0deg	1016mbar	17.0C°	1.0m	90.0deg	

Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments
0.3deg	0.3deg	0.30m	2.5m	90.0deg		

Rig Dir.	Ris. Tension	VDL	Comments
249.0deg		4108.0klb	

Rig Support

Anchors	Tension (klb)
1	198.0
2	174.0
3	236.0
4	229.0
5	220.0
6	216.0
7	295.0
8	251.0

Boats	Arrived (date/time)	Departed (date/time)	Status
Far Grip			Working Ocean Patriot
Pacific Wrangler			Melbourne

Bulks

Item	Unit	Quantity
Fuel Oil	M3	351
Potable Water	M3	274
Drill Water	M3	292
Cement	MT	0
Cement Silica	MT	54
Barite	MT	54.5
Gel	MT	0

Item	Unit	Quantity
Fuel Oil	M3	271
Potable Water	M3	160
Drill Water	M3	110
Cement	MT	0
Cement Silica	MT	0
Barite	MT	0
Gel	MT	0

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow	10:36 / 10:59	5 / 9	

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BASS STRAIT Oil for Australians

21 Oct 2005 (GMT +10)

From: R. King / S. Rodda
To: C. Allport

DRILLING MORNING REPORT # 8

Maclean-1 (Vic/P47)

Well Data

Country	Australia	M. Depth	766.0m	Cur. Hole Size	12.250in	AFE Cost	$4,751,978
Field	Maclean	TVD	766.0m	Casing OD	13.375in	AFE No.	
Drill Co.	DOGC	Progress	0.0m	Shoe TVD	350.00m	Daily COST	$265,597
Rig	Ocean Patriot	Days from spud	5.85	FIT	13.80ppg	Cum Cost	$3,722,482
Wtr Dpth(MSL)	57.0m	Days on well	7.42	LOT		Planned TD	771.0m
RT-MSL	21.5m					Days Since Last LTI	887
RT-ML	78.5m						

Current Op @ 0600: De-ballasting rig, perform sea bed survey.
L/D wellhead and all tubulars.

Planned Op: Pull anchors.

Summary of Period 0000 to 2400 Hrs

P&A well, pulled BOP's.

Operations For Period 0000 Hrs to 2400 Hrs on 21 Oct 2005

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0130	1.50	PA	P	WOC	766.0m	Lay down excess drill collars. Lay down hangoff tool.
0130	0230	1.00	PA	P	TI	766.0m	Run in hole with cement stinger and tag cement at 274m with 5000lbs.
0230	0300	0.50	PA	P	CIR	766.0m	Circulate well to inhibited mud.
0300	0500	2.00	PA	P	LDP	766.0m	Lay down all excess drillpipe.
0500	0730	2.50	PA	P	TI	766.0m	Make up and run 13 3/8" bridge plug to 148m and set same. Pressure test with 1000psi. Good test.
0730	0900	1.50	PA	P	TI	766.0m	Pull out and lay down setting tool. Run in with mule shoe OEDP to 148m.
0900	0930	0.50	PA	P	CMP	766.0m	Rig up cement line and pressure test same with 1000psi. Mix and pump cement plug #3 from 148m to 100m. Mix and pump 26bbls slurry @ 15.8ppg Class G, with 15bbls mix water.
0930	1030	1.00	PA	P	TO	766.0m	Pull back to 95m and reverse circulate hole clean, trace cement. Pull out and lay down mule shoe.
1030	1200	1.50	PA	P	TI	766.0m	Run in and recover wear bushing, jet BOP on trip out.
1200	1530	3.50	PA	P	BOP	766.0m	Rig up to pull marine riser, lay out diverter and pick up handling joint.
1530	2230	7.00	PA	P	BOP	766.0m	Unlatch BOP and pull same and rack on carrier. Unlatched HAC, positive indication observed with ROV.
2230	2400	1.50	PA	P	TI	766.0m	Make up 20" casing cutter and run in same on HWDP.

Operations For Period 0000 Hrs to 0600 Hrs on 22 Oct 2005

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0030	0.50	PA	P	TI	766.0m	Continue to run in hole with 20" cutting assembly.
0030	0130	1.00	PA	P	WH	766.0m	Cut 20" casing @ 83.4m.
0130	0500	3.50	PA	P	RM	766.0m	Pull PGB and 18 3/4" Hsg and 30" Hsg free with 40k overpull, recover same. Start to de-ballast rig @ 01:30hrs. Perform sea bed survey and record same with ROV. Split and lay down both Hsg, secure PGB in moonpool.
0500	0600	1.00	PA	P	RM	766.0m	(IN PROGRESS) Start to pull anchors while continuing to de-ballast. #6 - P.C.C. passed to Pacific Wrangler @ 05:31hrs, anchor off bottom @ 06:00hrs, racked @09:36hrs. #2 - P.C.C. passed to Far Grip @ 07:51hrs, anchor off bottom @ 08:19hrs, racked @09:21hrs. #3 - P.C.C. passed to Far Grip @ 09:30hrs, anchor off bottom @ 09:55hrs, racked @10:56hrs. #7 - P.C.C. passed to Pacific Wrangler @ 09:44hrs, anchor off bottom @ 10:09hrs, racked @11:17hrs. #4 - P.C.C. passed to Far Grip @ 11:04hrs, anchor off bottom @ 12:00hrs, racked

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From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
							@ 13:45hrs. Completed de-balast @ 11:26hrs. Pacific Wrangler placed on tow bridle @ 13:11hrs. #8 - P.C.C. passed to Far Grip @ 14:05hrs, anchor off bottom @ 14:23hrs, racked @ 15:24hrs. #1 - P.C.C. passed to Far Grip @ 15:39hrs, anchor off bottom @ 16:01hrs, racked @ 17:20hrs. #5 - P.C.C. passed to Far Grip @ 17:37hrs, anchor off bottom @ 17:58hrs, racked @ 18:30hrs. Rig under tow to Apache Energy's Fur Seal-1 location @ 18:30hrs. Statement of facts obtained.

Operations For Period Hrs to Hrs on

WBM Data

Cost Today $ 456

Mud Type:	PHPA	API FL:	1.0cc	Cl:	37000.0mg/l	Solids:	5	Viscosity	75sec/qt
Sample-From:	Active	Filter-Cake:	1/32nd"	Hard/Ca:	480.0mg/l	H2O:	95%	PV	15cp
Time:	06:00	HTHP-FL:		MBT:	9	Oil:		YP	33lb/100ft²
Weight:	1.09ppg	HTHP-cake:		PM:	1.2	Sand:		Gels 10s	12
Temp:	21.0C°			PF:	0.03	Glycol:		Gels 10m	17
				pH:	10.5	KCl:	7%	Fann 003	7
						PHPA:	1ppb	Fann 006	9
								Fann 100	32
								Fann 200	41
								Fann 300	48
								Fann 600	63

Comment

Total costs
49982.61

Shakers, Volumes and Losses Data

Engineer : J. Singh

Equip.	Descr.	Mesh Size
Shaker 1	4 x 110	
Shaker 2	2 x 165 , 2 x 84	
Shaker 3	4 x 84	
Shaker 4	4 x 84	

Available	**0bbl**
Active	
Mixing	
Hole	
Slug	
Reserve	
Kill	

Losses	**0bbl**
Downhole	
Surf+ Equip	0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Comments

Pits dumped, cleaning same.

Bit # 3

Wear	I	O1	D	L	B	G	O2	R
	2	3	WT	S	E	I	NO	TD

Size ("):	12.25in	IADC#	4-1-7
Mfr:	Reed	WOB(avg)	14.8klb
Type:	Roller Bearing	RPM(avg)	118
Serial No.:	NR2008	F.Rate	852gpm
Bit Model	EHP41HK	SPP	1720psi
Depth In	355.0m	HSI	
Depth Out	766.0m	TFA	1.485

Nozzles

No.	Size
1	28/32nd"
2	24/32nd"

Drilled over last 24 hrs

Progress	0.0m
On Bottom Hrs	0.00h
IADC Drill Hrs	0.00h
Total Revs	130
ROP(avg)	N/A

Calculated over Bit Run

Cum. Progress	411.0m
Cum. On Btm Hrs	16.40h
Cum IADC Drill Hrs	21.50h
Cum Total Revs	390
ROP(avg)	25.06 m/hr

BHA # 3

Weight(Wet)	50.0klb	Length	252.7m	Torque(max)	6kft-lbs	D.C. (1) Ann Velocity	
Wt Below Jar(Wet)	33.0klb	String	17.0klb	Torque(Off.Btm)	4kft-lbs	D.C. (2) Ann Velocity	
		Pick-Up	190.0klb	Torque(On.Btm)	4kft-lbs	H.W.D.P. Ann Velocity	
		Slack-Off	190.0klb			D.P. Ann Velocity	

BHA Run Description: 12¼" insert bit, 6 5/8" reg box x box bit sub, 8" LWD with DGR, EWR and Dir, 1 x 12¼" string stabiliser, 8 x 8" drill collars, 1 x 8" jar, 2 x 8" drill collars, 6 5/8" Reg pin x 4½" IF box, 15 x 5" HWDP

BHA Run Comment: BIT #3 R/R.

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.35m	12.25in			
Bit Sub	1.02m	8.00in			
MWD	12.99m	8.00in			
String Stabiliser	2.15m	12.25in			
Drill Collar	70.48m	8.00in			

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BASS STRAIT Oil
Oil for Australians

Equipment	Length	OD	ID	Serial #	Comment
Drilling Jars	9.05m	9.00in			
Drill Collar	17.47m	8.00in			
X/O	1.10m	8.00in			
HWDP	138.10m	5.00in			

Survey

MD	Incl Deg	Corr. Az (deg)	TVD	'V' Sect	Dogleg (deg/100ft)	N/S	E/W	Tool Type
555.05	0.28	329.55	555.0					
583.55	0.27	340.51	583.5					
611.79	0.20	330.07	611.7					
640.29	0.06	295.87	640.2					
669.26	0.22	352.26	669.2					

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite	MT	0	0	-105	3.4
Gel	MT	0	0	0	87.2
Cement	MT	0	48.11		114.7
Drill Water	m³	0	66.3	0	475.1
Fuel Oil	m³	0	10.8	0	411.2
Potable Water	m³	25	27.8	0	228.1
Cement Silica	MT				0.0
Brine	m³				0.0
Liquid Mud	m³				0.0
Helicopter Fuel	ltr		0		4,012.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (ppg)	Eff (%)	SPM	SPP (psi)	Flow (gpm)
1	OILWELL	6.00	9.07	97	73	1730	935
2	NATIONAL	6.00	9.07	97	73	1730	935
3	NATIONAL	6.00	9.07	97	73	1730	935

Slow Pump Data

Depth (m)	SPM1	SPP1 (psi)	Flow1(gpm)	SPM2	SPP2 (psi)	Flow2 (gpm)	SPM3	SPP3 (psi)	Flow3 (gpm)

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	110.90m /	
13.38	/	350.00m / 350.00m	

Personnel On Board

Job Title	Personnel	Company	Pax
		DOGC	50
		BSOC	4
		ESS	8
		MI Swaco	2
		Dowell Schlumberger	2
		Fugro	6
		Dril-Quip	1
		Geoservices	3
		Sperry Sun	3
		Schlumberger	1
		Smith Tool Company	1
		Marcom	1
		Total	82

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BASS STRAIT Oil
Oil for Australians

HSE Summary

Events	Date of last	Days Since	Descr.	Remarks
Abandon Drill	16 Oct 2005	5 Days		
Environmental Incident	21 Sep 2005	30 Days		
Fire Drill	16 Oct 2005	5 Days	EMERGENCY GENERATOR ROOM	
JSA Reviewed	21 Oct 2005	0 Days	Deck=12, Drill= 0, Tech=3	
Man Overboard Drill	10 Sep 2005	41 Days		
STOP Card Received	21 Oct 2005	0 Days	Corrective= 1, Safe= 1	

Marine

Weather on 21 Oct 2005

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.00mi	10.0kn	90.0deg	1008mbar	16.0C°	1.0m	90.0deg	

Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments
0.3deg	0.3deg	0.30m	2.5m	90.0deg		

Rig Dir.	Ris. Tension	VDL	Comments
249.0deg		3314.0klb	

Rig Support

Anchors	Tension (klb)
1	245.0
2	207.0
3	196.0
4	201.0
5	203.0
6	218.0
7	260.0
8	256.0

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks
Far Grip			Working Ocean Patriot	

Item	Unit	Quantity
Fuel Oil	M3	341
Potable Water	M3	271
Cement	MT	0
Cement Silica	MT	54
Barite	MT	159
Gel	MT	0

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks
Pacific Wrangler			Working Ocean Patriot	

Item	Unit	Quantity
Fuel Oil	M3	620
Potable Water	M3	268
Drill Water	M3	605
Cement	MT	125
Cement Silica	MT	0
Barite	MT	0
Gel	MT	42

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow	10:36 / 10:59	11 / 17	

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BASS STRAIT Oil
Oil for Australians

22 Oct 2005 (GMT +10)

From: R. King / S. Rodda
To: C. Allport

DRILLING MORNING REPORT # 9
Maclean-1 (Vic/P47)

Well Data

Country	Australia	M. Depth	766.0m	Cur. Hole Size	12.250in	AFE Cost	$4,751,978
Field	Maclean	TVD	766.0m	Casing OD	13.375in	AFE No.	
Drill Co.	DOGC	Progress	0.0m	Shoe TVD	350.00m	Daily COST	$212,661
Rig	Ocean Patriot	Days from spud	6.62	FIT	13.80ppg	Cum Cost	$3,935,143
Wtr Dpth(MSL)	57.0m	Days on well	8.19	LOT		Planned TD	771.0m
RT-MSL	21.5m					Days Since Last LTI	889
RT-ML	78.5m						

Current Op @ 0600:

Planned Op:

Summary of Period 0000 to 2400 Hrs

Completed P&A operations.

Operations For Period 0000 Hrs to 2400 Hrs on 22 Oct 2005

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0030	0.50	PA	P	TI	766.0m	Continue to run in hole with 20" cutting assembly.
0030	0130	1.00	PA	P	WH	766.0m	Cut 20" casing @ 83.4m.
0130	0500	3.50	PA	P	RM	766.0m	Pull PGB and 18 3/4" Hsg and 30" Hsg free with 40k overpull, recover same. Start to de-ballast rig @ 01:30hrs. Perform sea bed survey and record same with ROV. Split and lay down both Hsg, secure PGB in moonpool.
0500	1830	13.50	PA	P	RM	766.0m	Start to pull anchors while continuing to de-ballast. #6 - P.C.C. passed to Pacific Wrangler @ 05:31hrs, anchor off bottom @ 06:00hrs, racked @09:36hrs. #2 - P.C.C. passed to Far Grip @ 07:51hrs, anchor off bottom @ 08:19hrs, racked @09:21hrs. #3 - P.C.C. passed to Far Grip @ 09:30hrs, anchor off bottom @ 09:55hrs, racked @10:56hrs. #7 - P.C.C. passed to Pacific Wrangler @ 09:44hrs, anchor off bottom @ 10:09hrs, racked @11:17hrs. #4 - P.C.C. passed to Far Grip @ 11:04hrs, anchor off bottom @ 12:00hrs, racked @ 13:45hrs. Completed de-balast @ 11:26hrs. Pacific Wrangler placed on tow bridle @ 13:11hrs. #8 - P.C.C. passed to Far Grip @ 14:05hrs, anchor off bottom @ 14:23hrs, racked @ 15:24hrs. #1 - P.C.C. passed to Far Grip @ 15:39hrs, anchor off bottom @ 16:01hrs, racked @ 17:20hrs. #5 - P.C.C. passed to Far Grip @ 17:37hrs, anchor off bottom @ 17:58hrs, racked @ 18:30hrs. Rig under tow to Apache Energy's Fur Seal-1 location @ 18:30hrs. Statement of facts obtained.

Survey

MD	Incl Deg	Corr. Az (deg)	TVD	'V' Sect	Dogleg (deg/100ft)	N/S	E/W	Tool Type
555.05	0.28	329.55	555.0					
583.55	0.27	340.51	583.5					
611.79	0.20	330.07	611.7					
640.29	0.06	295.87	640.2					
669.26	0.22	352.26	669.2					

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite	MT	0	0	-105	-101.6
Gel	MT	0	0	0	87.2
Cement	MT	0	0		114.7

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Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Drill Water	m³	0	41.5	0	433.6
Fuel Oil	m³	0	17.2	0	394.0
Potable Water	m³	0	9.8	0	218.3
Cement Silica	MT				0.0
Brine	m³				0.0
Liquid Mud	m³				0.0
Helicopter Fuel	ltr		0		4,012.0

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	110.90m /	
13.38	/	350.00m / 350.00m	

Personnel On Board

Job Title	Personnel	Company	Pax
		DOGC	50
		BSOC	4
		ESS	8
		MI Swaco	2
		Dowell Schlumberger	2
		Fugro	6
		Dril-Quip	1
		Geoservices	3
		Sperry Sun	3
		Schlumberger	1
		Smith Tool Company	1
		Marcom	1
		Total	82

Marine

Weather on 22 Oct 2005

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.00mi	10.0kn	90.0deg	1008mbar	16.0C°	1.0m	90.0deg	

Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments
0.3deg	0.3deg	0.30m	2.5m	90.0deg		

Rig Dir.	Ris. Tension	VDL	Comments
249.0deg		3314.0klb	

Rig Support

Anchors	Tension (klb)
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0

Boats	Arrived (date/time)	Departed (date/time)	Status
Far Grip			Working Ocean Patriot
Pacific Wrangler			Working Ocean Patriot

Bulks

Item	Unit	Quantity
Barite	MT	159.5
Cement Silica	MT	54.5
Fuel Oil	MT	335
Drill Water	MT	292
Potable Water	MT	270

Item	Unit	Quantity
Gel	MT	42
Cement	MT	125.2
Fuel Oil	MT	608.4
Drill Water	MT	605
Potable Water	MT	265

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APPENDIX 13

DIAMOND OFFSHORE END of WELL REPORT

(By DOGC)

DIAMOND
OFFSHORE

Maclean - 1 O. Patriot

OPAL REPORT

Operational Proficiency Analysis Log

G·E·M·S

GLOBAL EXCELLENCE
MANAGEMENT SYSTEM

Operations Time Graph

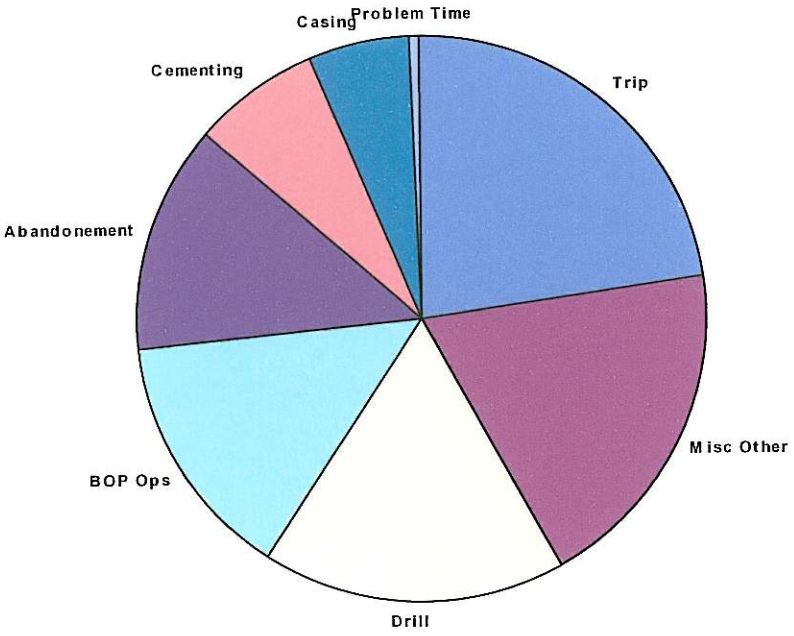
Job No: 186-0028

Rig: Patriot

Diamond Offshore

Maclean - 1

Analysis by Operations Group



Description		Time - hrs	%
Trip		45.00	22.90%
Misc Other		37.50	19.08%
Drill		33.50	17.05%
BOP Ops		28.00	14.25%
Abandonement		26.00	13.23%
Cementing		14.00	7.12%
Casing		11.50	5.85%
Problem Time		1.00	0.51%
	Total Time	196.50 hrs.	

Printed 27 Oct 05 15:35

Operations Time Graph

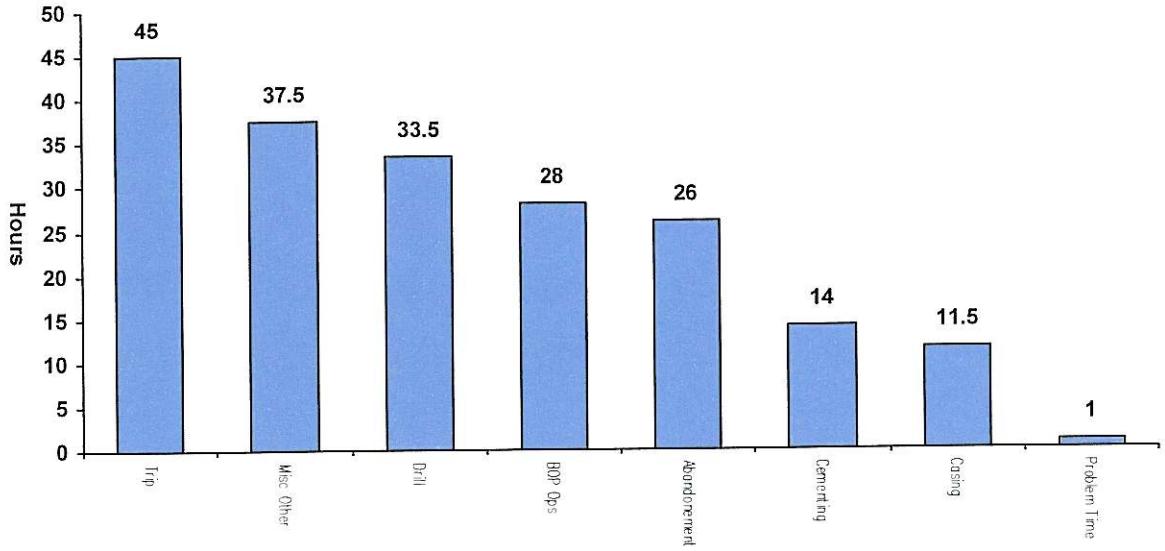
Job No: 186-0028

Rig: Patriot

Diamond Offshore

Maclean - 1

Analysis by Operations Group



Description	Time - hrs	%
Trip	45.00	22.90%
Misc Other	37.50	19.08%
Drill	33.50	17.05%
BOP Ops	28.00	14.25%
Abandonement	26.00	13.23%
Cementing	14.00	7.12%
Casing	11.50	5.85%
Problem Time	1.00	0.51%
Total Time	196.50 hrs.	

Printed 27 Oct 05 15:36

Operations Time Graph

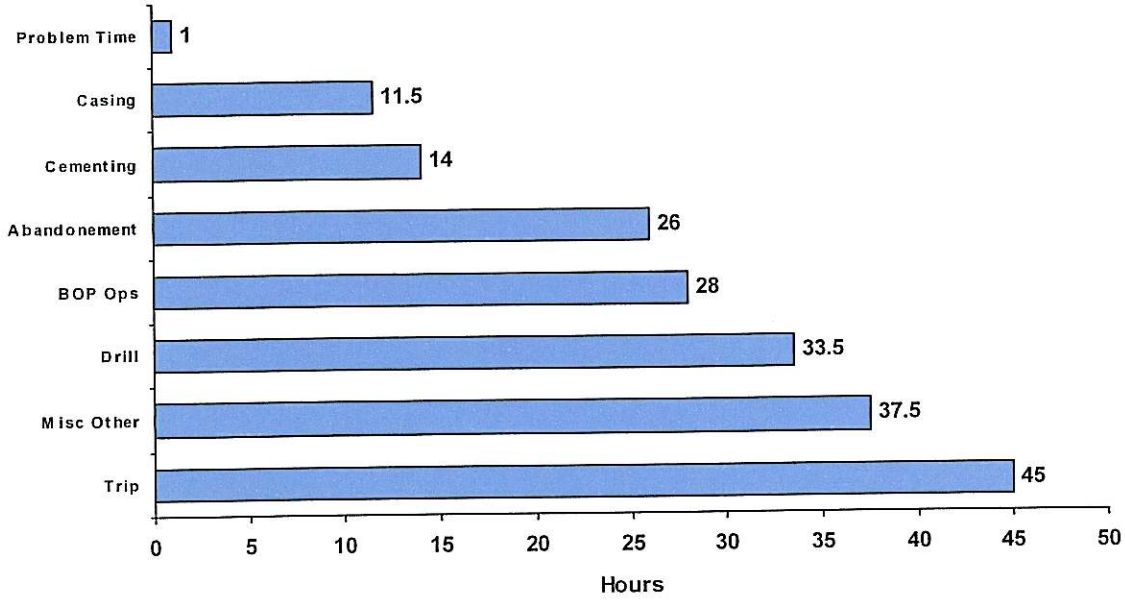
Job No: 186-0028

Rig: Patriot

Diamond Offshore

Maclean - 1

Analysis by Operations Group



Description	Time - hrs	%
Trip	45.00	22.90%
Misc Other	37.50	19.08%
Drill	33.50	17.05%
BOP Ops	28.00	14.25%
Abandonement	26.00	13.23%
Cementing	14.00	7.12%
Casing	11.50	5.85%
Problem Time	1.00	0.51%
Total Time	196.50 hrs.	

Printed 27 Oct 05 15:36

Job Information Report

Diamond Offshore

Job No: 186-0028 **Job Name: Maclean - 1**

Rig Name:	Patriot	**Rig No:**	186
Operator:	Bass Strait Oil Company Ltd	**Division:**	
Well No:	Maclean - 1	**Lease:**	
Classification:	☐ Tight Hole	**Contract Type:**	
On/OffShore:	Offshore	**API No:**	
OCS No:	VIC/P-47	**Block:**	
Latitude:	38° 02' 46.442"S	**Longitude:**	148°32' 52.989"E
Location:	Gippsland Basin		
Field:		**State:**	**Country:** Australia
Orig. RKB Elev:	21.500 m	**Water Depth:**	57.0 m
Casing Head Elev:	m	**Tubing Head Elev:**	m
Other Datum Point:		**Other Datum Elev:**	m
		RKB to Mud Line:	m
Start Date:	14-Oct-05	**Spud Date:**	
Project Manager:			
Operator Phone #:		**Contractor Phone #:**	

Well Bore: **Original Well Bore** **ID No: 0**

Section: Intermediate String 5

Time/Cost Estimates:

Bottom Depth MD	Bottom Depth TVD	Hole Size	Drill Days	Drill Cost	Case/Eval/Complete Days	Case/Eval/Complete Cost
771.0	749.0	12.250	10			

Casing Plan:

Type	Top MD	Top TVD	Btm MD	Btm TVD	O.D.	Weight	Grade	Thread

Printed: 15:37 27-Oct-05

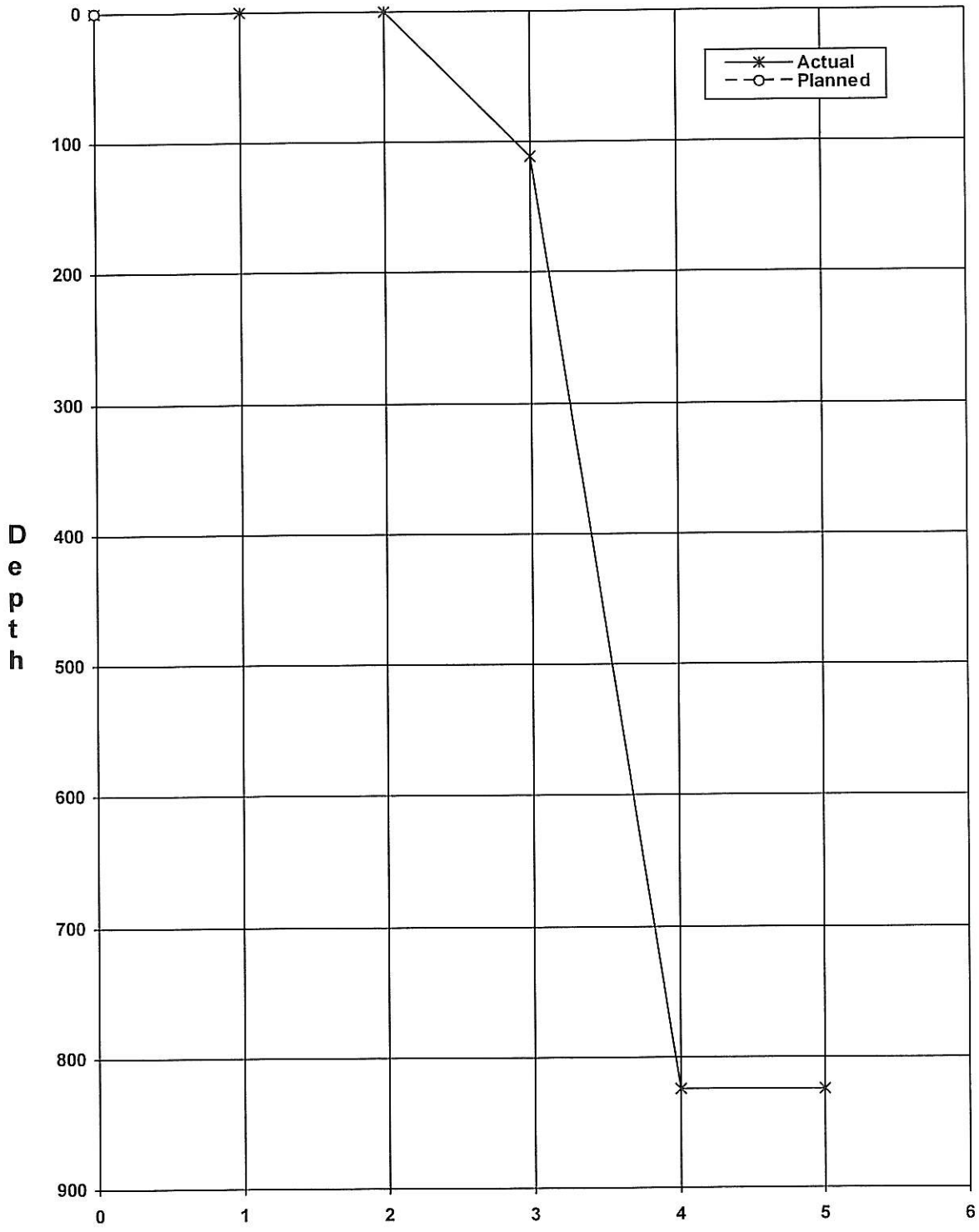
End of Report

Days Vs Depth Graph

186-0029

Diamond Offshore

Job Name: Fur Seal - 1



Printed: 15:38 27-Oct-05

Borehole Schematic

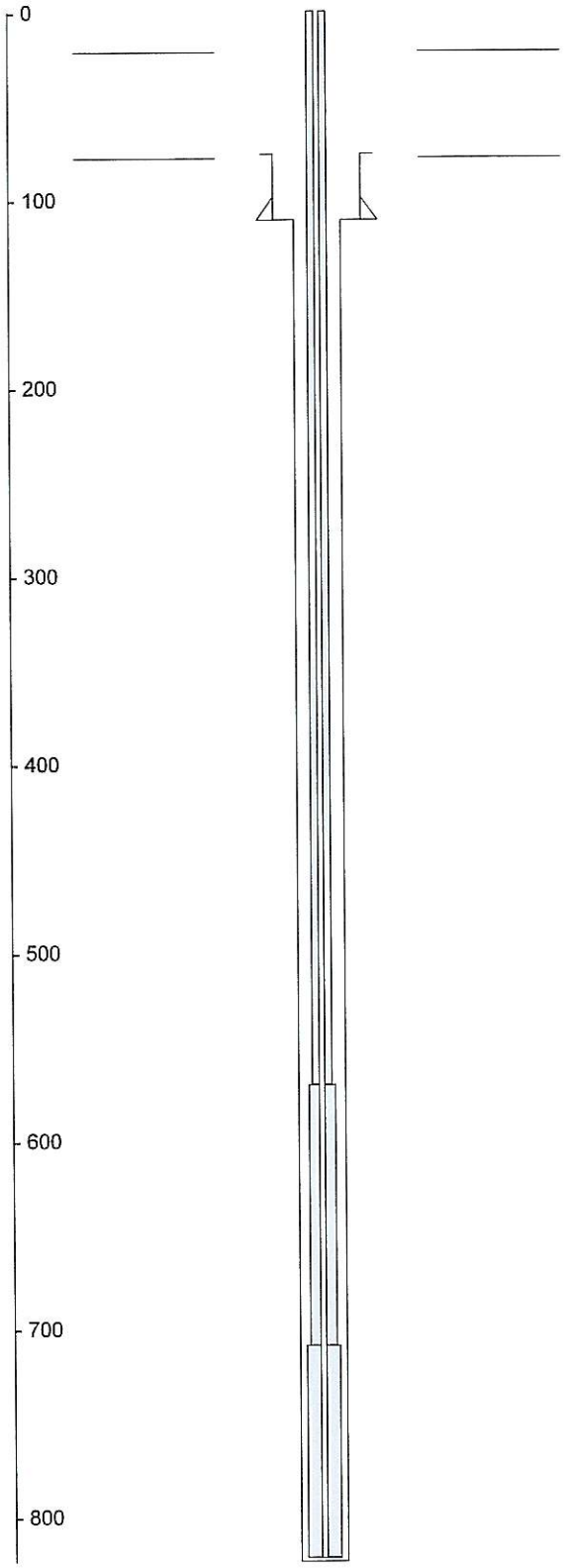
Job No: 186-0029

Well Bore: Original Well Bore

Diamond Offshore

Job Name: Fur Seal - 1

All Depths are relative to the Original RKB Elevation.
Original RKB Elevation at 21.5 above MSL



Sea Level at 22

Water Depth = 57

Sea Floor at 78

30.0 Casing set at 111 on 24-Oct-05
Open Hole Diameter 16.

Total Depth 824

BHA No. 2

Printed 15:38 27-Oct-05

Borehole Schematic

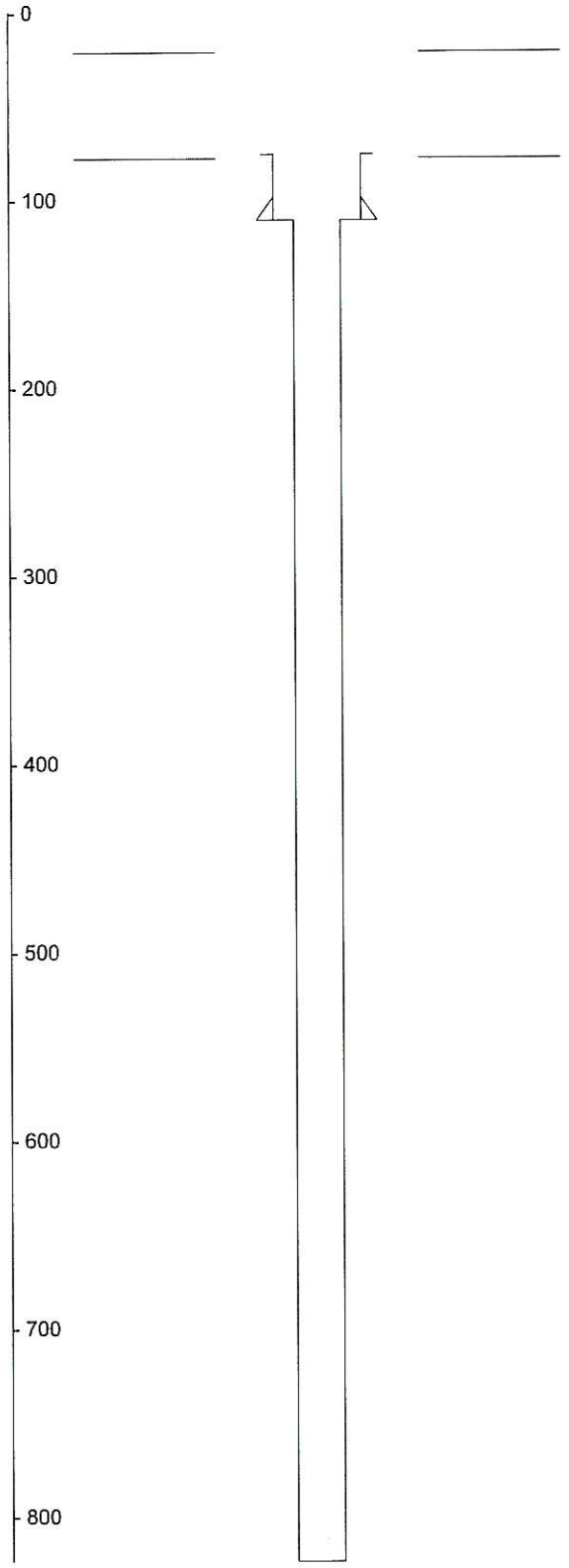
Job No: 186-0029

Well Bore: Original Well Bore

Diamond Offshore

Job Name: Fur Seal - 1

All Depths are relative to the Original RKB Elevation.
Original RKB Elevation at 21.5 above MSL



Sea Level at 22

Water Depth = 57

Sea Floor at 78

30.0 Casing set at 111 on 24-Oct-05
Open Hole Diameter 16.

Total Depth 824

Printed 15:38 27-Oct-05

Operations Time Analysis

Diamond Offshore

Job No: 186-0028 **Job Name:** Maclean - 1

Rig: Patriot

	Total Hrs	% of Total
Trip		
PU/LD BHA/Drill string	27.00	13.7
Trips	18.00	9.2
Total for Trip:	45.00	22.9
Misc Other		
Move/Ballast/Position Rig	21.00	10.7
Run/Pull Anchors	14.50	7.4
Other Operations	2.00	1.0
Total for Misc Other:	37.50	19.1
Drill		
Drilling Ahead	29.50	15.0
Circulate/Condition Mud	4.00	2.0
Total for Drill:	33.50	17.0
BOP Ops		
BOP Operations (N/U, N/D, Run, Pull)	25.50	13.0
Testing BOP/Casing/Shoe	2.50	1.3
Total for BOP Ops:	28.00	14.2
Abandonement		
Plug & abandon	26.00	13.2
Total for Abandonement:	26.00	13.2
Cementing		
Waiting On Cement	5.00	2.5
Cement Casing	4.50	2.3
Drilling Cement/Shoe	4.50	2.3
Total for Cementing:	14.00	7.1
Casing		
Run casing	11.50	5.9
Total for Casing:	11.50	5.9
Problem Time		
Rig Repairs	1.00	0.5
Total for Problem Time:	1.00	0.5
Total Elapsed Time for Job:	196.50 hrs.	
Total Non-Productive Time for Job:	1.00 hrs.	0.5%
Total Productive Time for Job:	195.50 hrs.	99.5%

Printed: 15:38 27-Oct-05

End of Report

APPENDIX 14

CONTRACTOR'S PERFORMANCE

(By Bass Strait Oil Company Ltd)

Contractor Performance

Schlumberger:	No wireline services were performed
Bureau of Meteorology:	The weather forecasts were supplied to BAS in a timely and satisfactory manner.
Bristow:	The S-76 helicopter was adequate for the job and an excellent job was done by the Bristow's staff.
Dril-Quip:	Use of the Dril-Quip HAC system proved to be successful and is recommended for future work. A squnch joint should be considered instead of using no cross couplings.
Farstad:	The AHSV worked satisfactorily.
Fugro:	ROV services were performed satisfactorily.
	Positioning services were performed satisfactorily.
RPS Hydrosearch:	The QA/QC on positioning services were performed satisfactorily.
MI Swaco:	Drilling Fluids Engineering was good and the mud system was fit for purpose.
Pathfinder:	The 241mm (9½") Anderdrift provided surveys as required in the conductor hole.
Petrotech:	The system was fit for purpose.
Marcomm:	Setup communications in an efficient manner using the Santos system.
Reed:	Reed bits performed as expected.
Smith:	Smith tools were fit for purpose.
	The casing cut was performed efficiently.
Geoservices:	On the rigsite operations were carried out successfully to a high standard. The initial end of well report was of poor standard and required multiply versions before being presentable.
Swire Pacific:	The AHSV worked satisfactorily.
Weatherford:	No problems with Weatherford equipment or personnel were encountered.
Schlumberger:	The cementing unit onboard was dated and new equipment and software had to be installed to update the unit.
Halliburton:	LWD tools logged the well successfully allowing the decision to P&A without wireline logs being run in a timely manner.
Diamond:	Diamond have made good improvements since the initial Moby well was drilled. With more experienced crews becoming familiar with the rig operations were performed efficiently. Minimal downtime due to equipment failure occurred during the operation.

ENCLOSURES

FORMATION EVALUATION LOG

WELL : MACLEAN 1

FROM (m): 70 TO (m): 800 SCALE: 1/ 500

BASS STRAIT Oil — Oil for Australians

Geoservices

Country : AUSTRALIA	**POSITION**	**CASING**	Spud Date : 16-10-2005
Region : VICTORIA	Latitude : 38°02'46.32"S	508mm Shoe at (mMDRT) : 110.9m	Total Depth Date : 20-10-2005
Field : GIPPSLAND BASIN	Longitude : 148°32'52.92"E	340mm Shoe at (mMDRT) : 350.0m	Total Depth (mRT): 766.0m
Permit : VIC/P-47	X (m) : 620,701.1 mE		T.V.D. (mSS MSL): 744.50m
Well Type : VERTICAL EXPLORATION	Y (m) : 5,798,512.1 mN		Status : P&A
Rig Name : OCEAN PATRIOT	RT-MSL (m) : 21.5		
	RT-Seabed (m) : 78.5		

ABBREVIATIONS

MW MUD WEIGHT
FV FUNNEL VISCOSITY
PV PLASTIC VISCOSITY
YP YIELD POINT
FC FILTER CAKE
SOL SOLIDS
WL FILTRATE
SD SAND - %
S SALINITY - PPM
RM MUD RESISTIVITY
RMF MUD FILTRATE
C CARBIDE TEST
LAT LOGGED AFTER TRIP
DS DEVIATION SURVEY

NB NEW BIT
RR RERUN BIT
CB CORE BIT
WOB WEIGHT ON BIT
RPM REVS PER MINUTE
FLC FLOW CHECK
CR CIRCULATE RETURNS
PR POOR RETURNS
NR NO RETURNS
BG BACKGROUND GAS
TG TRIP GAS
STG SHORT TRIP GAS
CG CONNECTION GAS
SG SWAB GAS
SVG SURVEY GAS

LITHOLOGY LEGEND

Limestone
Med Sandstone
Fine Sandstone
Siltstone
Claystone
Calcarenite
Calcisiltite
Calcilutite
Anhydrite
Coal
Marl
Dolomite
Carb. Siltstone
Calc Claystone
Greensand
Foraminifera
Pyrite
Glauconite
Mica
Ferrous
Fossils
Calcareous
Dolomitic
Chert

ENGINEERING LEGEND

Deviation Survey
Casing Shoe
Wiper Trip
SWC (rec)
SWC (unrec)
Core
Bit Trip

MWD Gamma Ray (api) 0 100 200
WOB (Klbs) 0 30 60
ROP Backup (m/h) 400 300 200
ROP (m/h) 200 100 0

CORES

DEPTH
MD (m)
TVD(m)

CUTTINGS LITHOLOGY %

INTERPRETED LITHOLOGY

TOTAL GAS & RESISTIVITY
Resistivity (Deep) Ohm.m .1 1 10 100 1K
Resistivity (Shallow) Ohm.m .1 1 10 100 1K
Total Gas (%) .01 .1 1 10 100

RESERVAL CHROMATOGRAPH
Methane %
Ethane %
Propane %
ISO-Butane %
N-Butane %
ISO-Pentane %
N-Pentane %
.001 .01 .1 1 10

OIL FLUORESCENCE

CALC (%) 0 100
DOLO (%) 100 0

LITHOLOGICAL DESCRIPTIONS AND REMARKS

70
80
90
100

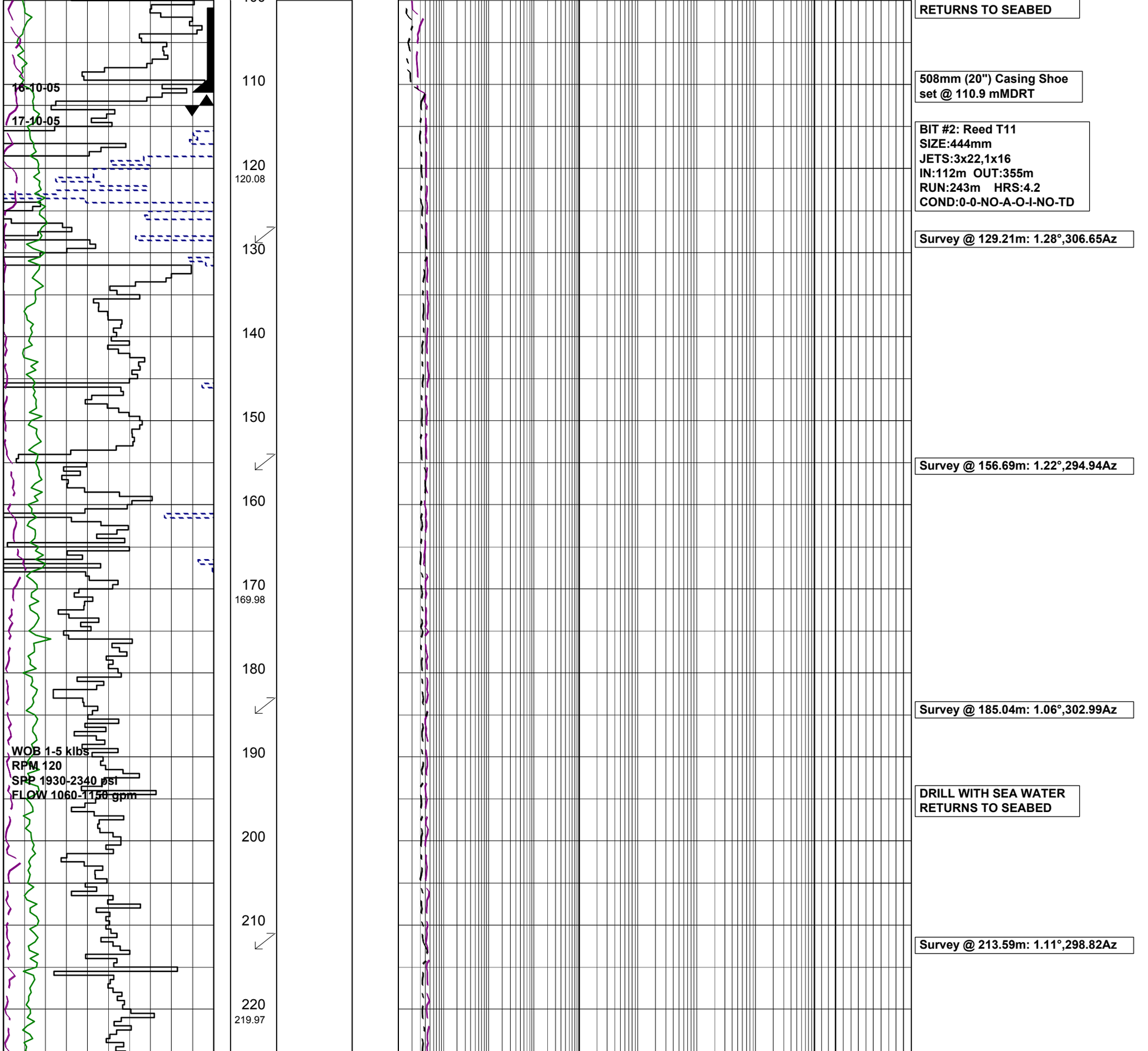
16-10-05

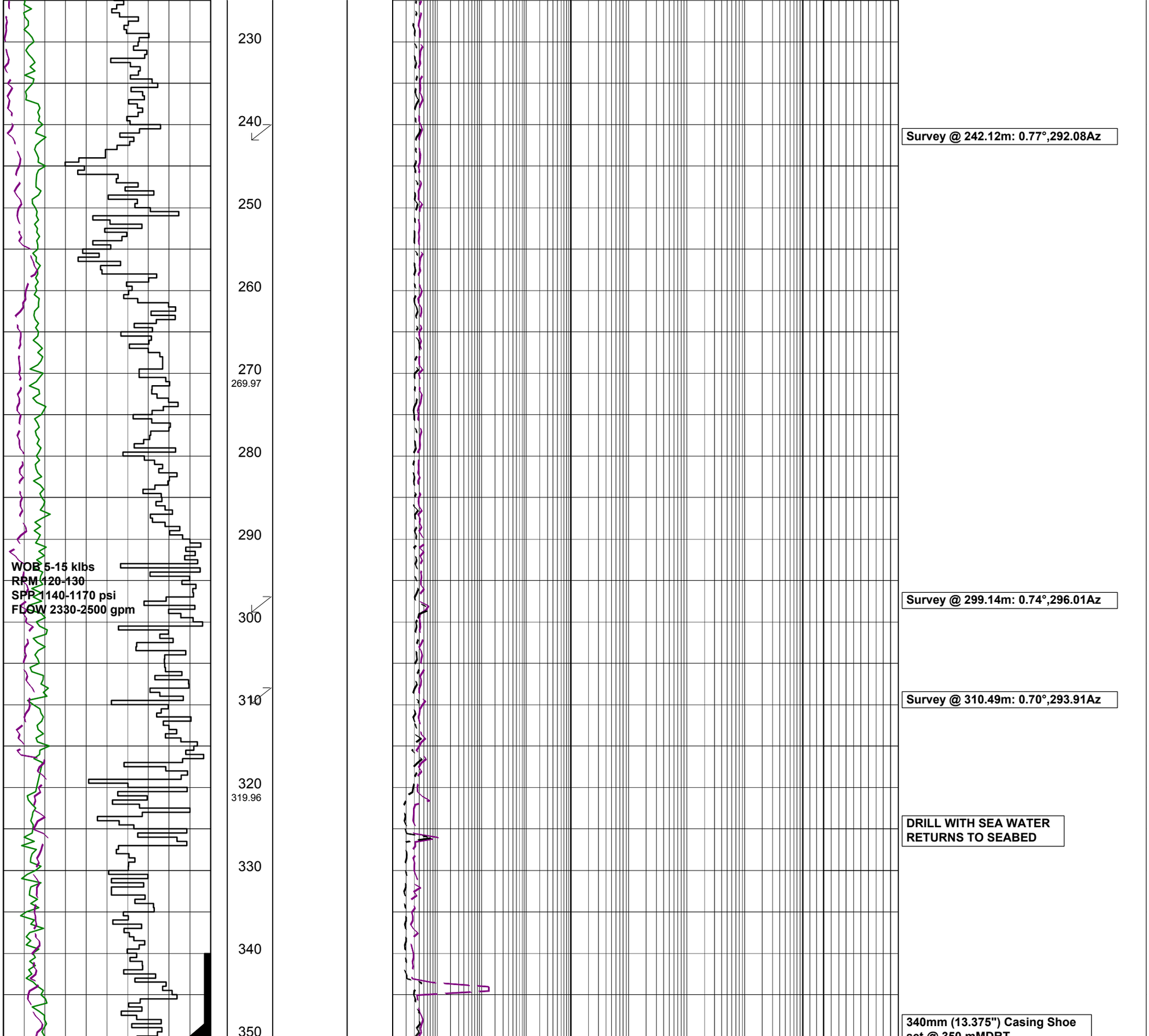
WOB 1-5 klbs
RPM 60-80
SPP 250-1000 psi
FLOW 1055 gpm

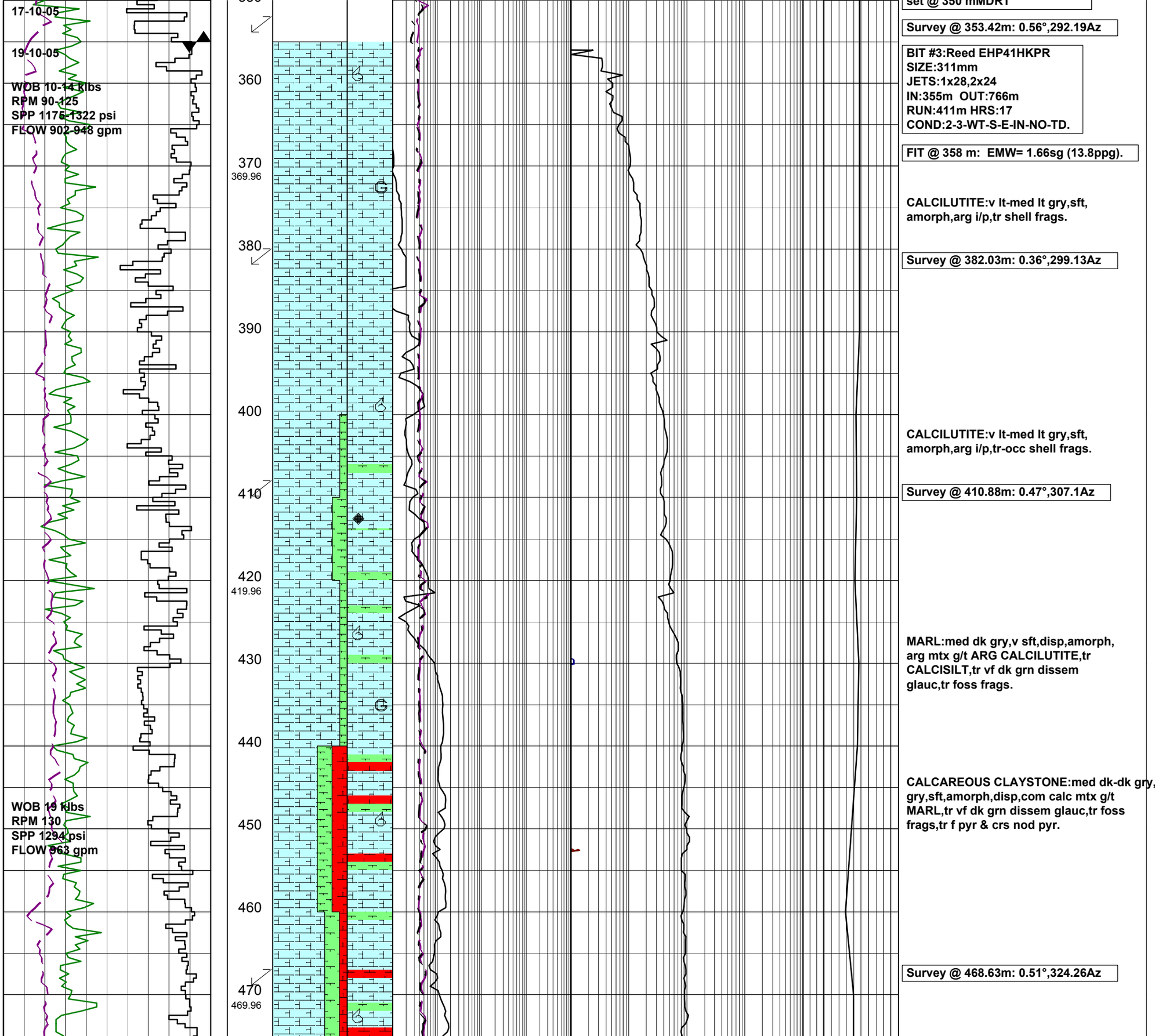
MACLEAN 1 SPUDDED @ 03:30 HRS ON 16-10-2005

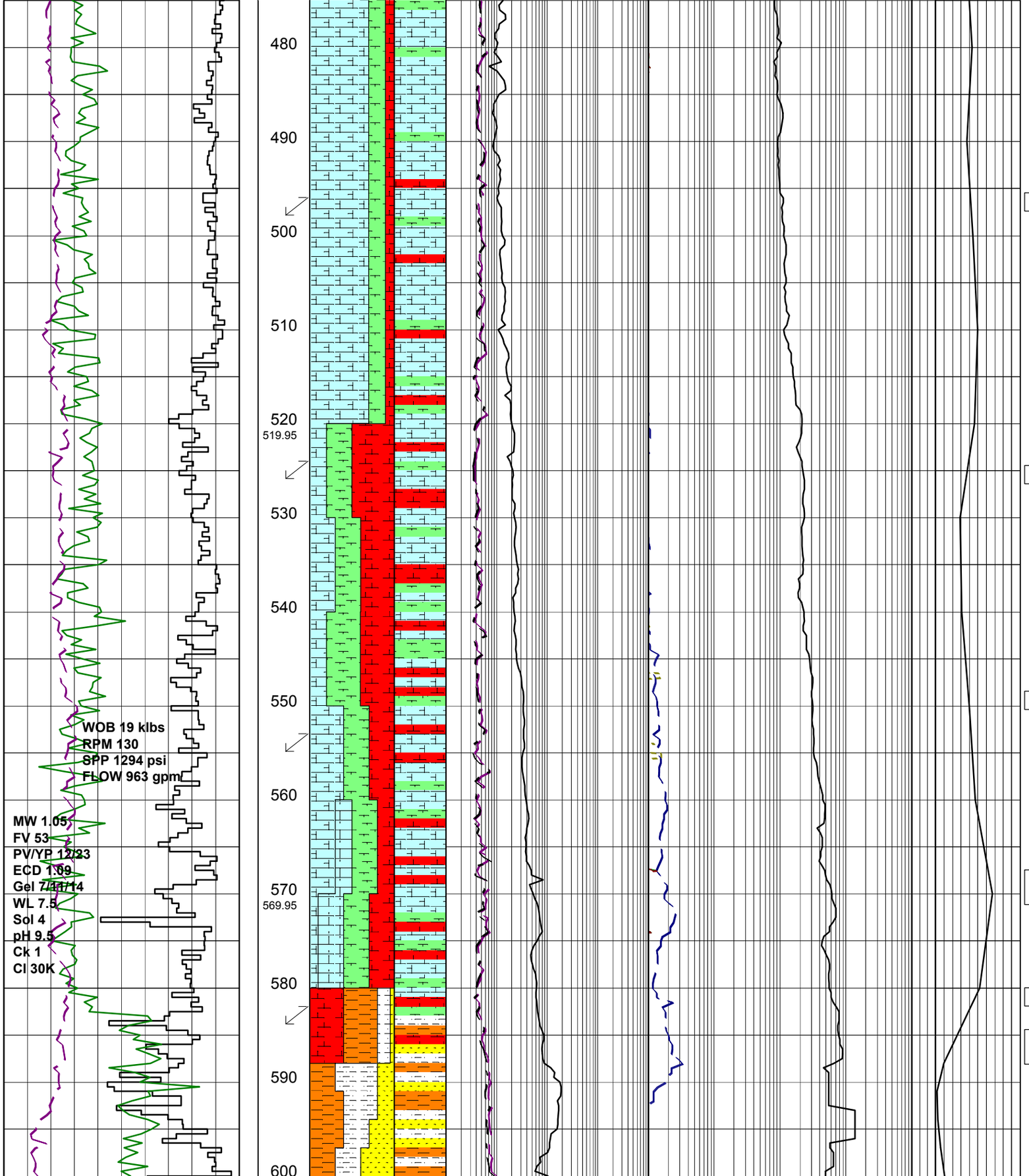
BIT #1: Reed Y11C
SIZE:660mm + 914mm H.O
JETS:3x24
IN: 78.5m OUT:112m
RUN:33.5m HRS:0.8
COND:0-0-NO-A-O-I-NO-TD

DRILL WITH SEA WATER


16-10-05
17-10-05
110
120
120.08
130
140
150
160
170
169.98
180
190
200
210
220
219.97
WOB 1-5 klbs
RPM 120
SPP 1930-2340 psi
FLOW 1060-1150 gpm
RETURNS TO SEABED
508mm (20") Casing Shoe
set @ 110.9 mMDRT
BIT #2: Reed T11
SIZE:444mm
JETS:3x22,1x16
IN:112m OUT:355m
RUN:243m HRS:4.2
COND:0-0-NO-A-O-I-NO-TD
Survey @ 129.21m: 1.28°,306.65Az
Survey @ 156.69m: 1.22°,294.94Az
Survey @ 185.04m: 1.06°,302.99Az
DRILL WITH SEA WATER
RETURNS TO SEABED
Survey @ 213.59m: 1.11°,298.82Az


230
240
250
260
270
269.97
280
290
300
310
320
319.96
330
340
350
WOB 5-15 klbs
RPM 120-130
SPP 1140-1170 psi
FLOW 2330-2500 gpm
Survey @ 242.12m: 0.77°,292.08Az
Survey @ 299.14m: 0.74°,296.01Az
Survey @ 310.49m: 0.70°,293.91Az
DRILL WITH SEA WATER
RETURNS TO SEABED
340mm (13.375") Casing Shoe


17-10-05
19-10-05
WOB 10-14 klbs
RPM 90-125
SPP 1176-1322 psi
FLOW 902-948 gpm
WOB 19 klbs
RPM 130
SPP 1294 psi
FLOW 963 gpm
360
370
369.96
380
390
400
410
420
419.96
430
440
450
460
470
469.96
set @ 350 mMDRT
Survey @ 353.42m: 0.56°,292.19Az
BIT #3:Reed EHP41HKPR
SIZE:311mm
JETS:1x28,2x24
IN:355m OUT:766m
RUN:411m HRS:17
COND:2-3-WT-S-E-IN-NO-TD.
FIT @ 358 m: EMW= 1.66sg (13.8ppg).
CALCILUTITE:v lt-med lt gry,sft, amorph,arg i/p,tr shell frags.
Survey @ 382.03m: 0.36°,299.13Az
CALCILUTITE:v lt-med lt gry,sft, amorph,arg i/p,tr-occ shell frags.
Survey @ 410.88m: 0.47°,307.1Az
MARL:med dk gry,v sft,disp,amorph, arg mtx g/t ARG CALCILUTITE,tr CALCISILT,tr vf dk grn dissem glauc,tr foss frags.
CALCAREOUS CLAYSTONE:med dk-dk gry, gry,sft,amorph,disp,com calc mtx g/t MARL,tr vf dk grn dissem glauc,tr foss frags,tr f pyr & crs nod pyr.
Survey @ 468.63m: 0.51°,324.26Az



ARGILLACEOUS CALCILUTITE:med gry-med dk gry,v sft,amorph,disp,com arg mtx g/t CALCILUTITE,tr glauc, tr f pyr & crs nod pyr.

Survey @ 497.69m: 0.48°,307.59Az

CALCAREOUS CLAYSTONE:v lt-med lt gy,v sft,amorph,disp,30% arg mtx g/t CLCLUT,tr vf dk gn glauc grns,tr f dk gn dissem & nod glauc,tr f pyr & crs nod pyr.

Survey @ 526.41m: 0.52°,316.12Az

MARL:lt med gy,v sft,disp,amorph, cly mtx g/t CALC CLYST,tr vf dk gn dissem & crs nod pyr,tr f pyr.

Survey @ 555.05m: 0.28°,329.55Az

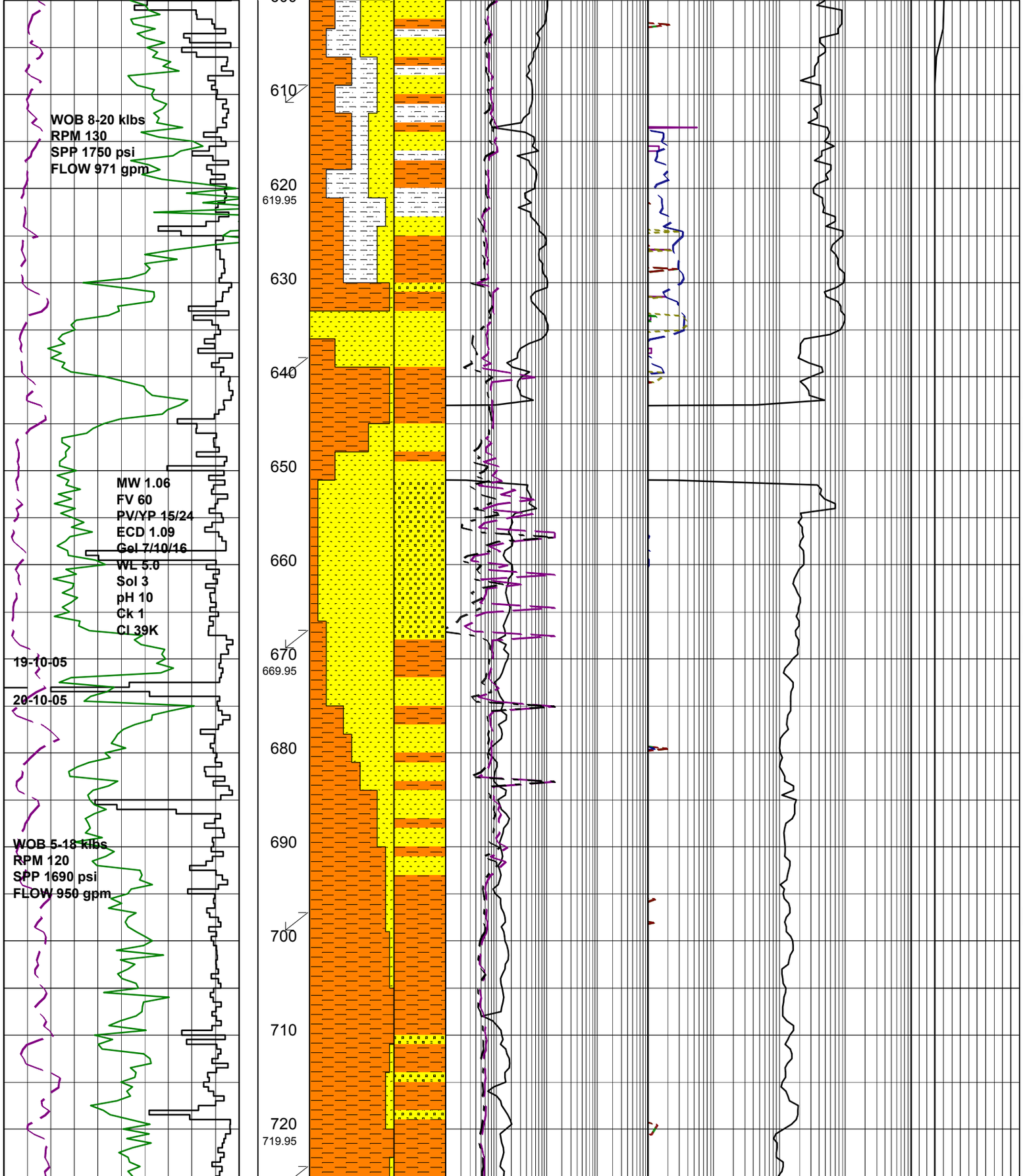
CALCAREOUS CLAYSTONE:med gy-med dk gy,mnr dk grn/gy & brn/gy,sft,amorph disp-sli frm,blky,calc mtx g/t MARL, tr CLCSILT,tr f dk gn dissem & crs nod glauc,tr foss frags & forams,tr f pyr & crs nod pyr.

CARBIDE LAG CHECK @ 566m: HOLE IS IN GAUGE

Survey @ 583.55m: 0.27°,340.51Az

588m-655m: Gas data obtained using auxiliary degasser & Reserval

SANDSTONE:med yel/bn,dk bn/gy,lt gy-bn/blk i/p,frm,fri-sft,lse,v hd i/p,vf-f, sbang-sbrnd,lith grns,mod wl srt, cly mtx,tr f and crs nod pyr i/p,pr inf por,no fluor.



CLAYSTONE:med-dk yel brn & gry brn, dk brn gry-brn blk i/p,sft-sli frm, amorph-blky,hd i/p.

Survey @ 611.79m: 0.20°,330.07Az

CLAYSTONE:med-dk yl/bn & gy/bn,mod red.bn & dsky yel/org,gn/gy i/p, sft-sli frm,amorph-blky,hd i/p,wl rnd f-crs glauc,g/t GLAUC CLYST i/p,tr nod pyr.

SANDSTONE:med yel/bn,dk bn/gy,lt gy-bn/blk i/p,frm-v hd,fri-sft,lse i/p,vf-f, sbang-sbrnd,lith grns,mod wl srt, cly mtx,tr f & crs mod pyr i/p,pr inf por,no fluor.

SANDSTONE:clr-frstd,trnsl,tr wh-lt gry,lse,crs-v crs,pr srt,tr arg mtx, tr nod pyr & pyr cmt,tr liths,tr rnd carb frags,v gd inf por,no fluor.

Survey @ 640.29m: 0.06°,295.87Az

643m-651m: No gas data obtained due to blocked gas line on Aux.

COAL:(Tr) bn/blk,blk,sft-frm,brit fibr,vf-lg frags.

SANDSTONE:clr,frstd,trnsl,wh-lt gy, med dk gy,lse,crs-v crs,conglom,ang-wl rnd,pr srt,tr arg mtx,tr nod pyr & pyr cmt,tr lith,tr rnd carb frags,v gd inf por,no fluor.

Reserval gas pump online from 655m

Survey @ 669.26m: 0.22°,352.26Az

CLAYSTONE:wh-v lt gy,sft-disp,wash out,5-10% silt to vf snd in mtx,tr vf carb grns.

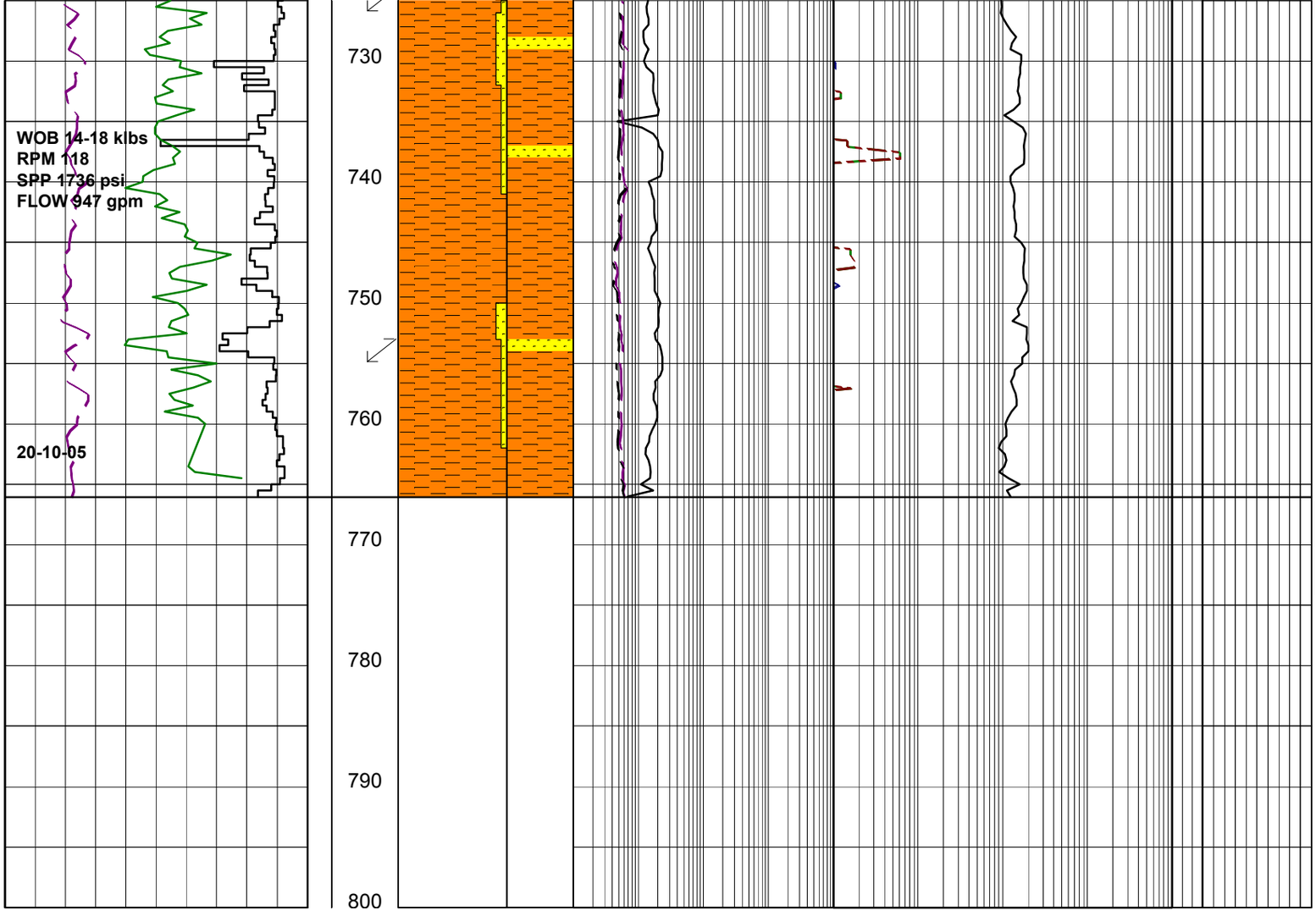
SANDSTONE:clr,frstd,trnsl,wh-lt gy, med dk gy,lse,crs-v crs,gran,conglom ang-wl rnd,pr srt,tr arg mtx,tr nod pyr & pyr cmt,tr lith,tr rnd carb frags,v gd inf por,no fluor.

Survey @ 698.11m: 0.31°,59.85Az

CLAYSTONE:wh-v lt gy,sft-disp,wash out,5-10% silt to vf snd in mtx,tr vf carb grns.

SANDSTONE:clr,frstd,trnsl,wh-lt gy, med dk gy,lse,crs-v crs,gran,conglom ang-wl rnd,pr srt,tr arg mtx,tr nod pyr & pyr cmt,tr lith,tr rnd carb frags,v gd inf por,no fluor.

CLAYSTONE:v lt gy,sft,disp,mnr slt-vf sand disp in mtx,tr vf carb grns.



Survey @ 726.82m: 0.44°,78.01Az

SANDSTONE:clr,frstd,trnsl,wh-lt gy, med dk gy,lse,crs-v crs,gran,conglom ang-wl rnd,pr srt,tr arg mtx,tr nod pyr & pyr cmt,tr lith,gd inf por,no fluor.

CLAYSTONE:lt gy-bn.gy,sft,disp,mnr silt-vf sand disp in mtx,tr vf carb grns.

SANDSTONE:clr,frstd,trnsl,wh-lt gy, med dk gy,lse,rr cmtd frag,f-med,pr srt,tr tr lith frags,tr arg mtx,tr nod & pyr cmt,no fluor.

Survey @ 755.28m: 0.72°,88.50Az

CLAYSTONE:lt gy-bn gy,sft,disp,mnr silt-vf sand disp in mtx,tr vf carb grns.

COAL:(Tr)bn/blk,blk,sft-frm,brit fibr,vf-sml frags.

TD 766 m at 06:00 hrs on the 20-10-05.

Plug & Abandon, no wireline logs run.

DRILLING DATA PLOT

WELL : MACLEAN 1

FROM (m): 50 TO (m): 800 SCALE: 1/ 1000

BASS STRAIT Oil — Oil for Australians

Geoservices

Country : AUSTRALIA	**POSITION**	**CASING**	
Region : VICTORIA	Latitude : 38°02'46.32"S	508mm Shoe at (mMDRT) : 110.9m	Spud Date : 16-10-2005
Field : GIPPSLAND BASIN	Longitude : 148°32'52.92"E	340mm Shoe at (mMDRT) : 350.0m	Total Depth Date : 20-10-2005
Permit : VIC/P-47	X (m) : 620,701.1 mE		Total Depth (mRT): 766.0m
Well Type : VERTICAL EXPLORATION	Y (m) : 5,798,512.1 mN		T.V.D. (mSSMSL) : 744.50m
Rig Name : OCEAN PATRIOT	RT-MSL (m) : 21.5		Status : P&A
	RT-Seabed (m) : 78.5		

ABBREVIATIONS

MW MUD WEIGHT
FV FUNNEL VISCOSITY
PV PLASTIC VISCOSITY
YP YIELD POINT
FC FILTER CAKE
SOL SOLIDS
WL FILTRATE
SD SAND - %
S SALINITY - PPM
RM MUD RESISTIVITY
RMF MUD FILTRATE
C CARBIDE TEST
LAT LOGGED AFTER TRIP
DS DEVIATION SURVEY

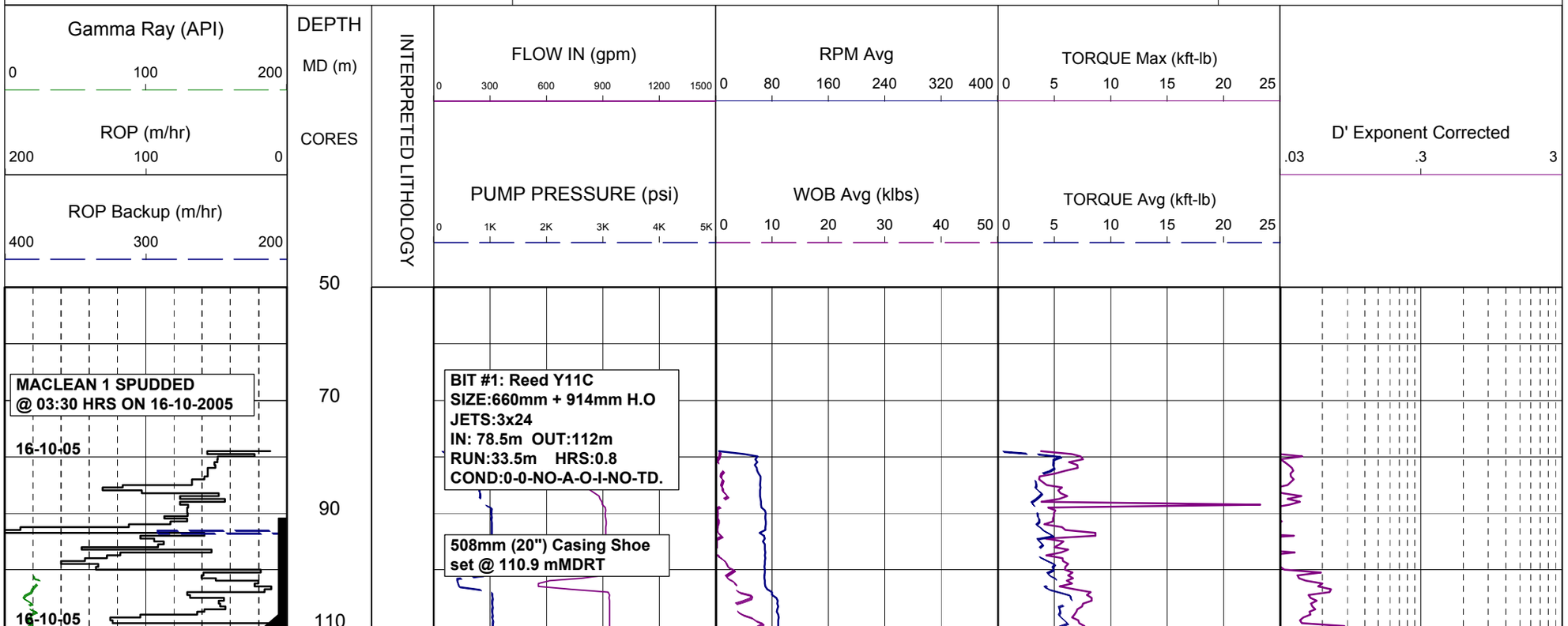
NB NEW BIT
RR RERUN BIT
CB CORE BIT
WOB WEIGHT ON BIT
RPM REVS PER MINUTE
FLC FLOW CHECK
CR CIRCULATE RETURNS
PR POOR RETURNS
NR NO RETURNS
BG BACKGROUND GAS
TG TRIP GAS
STG SHORT TRIP GAS
CG CONNECTION GAS
SG SWAB GAS
SVG SURVEY GAS

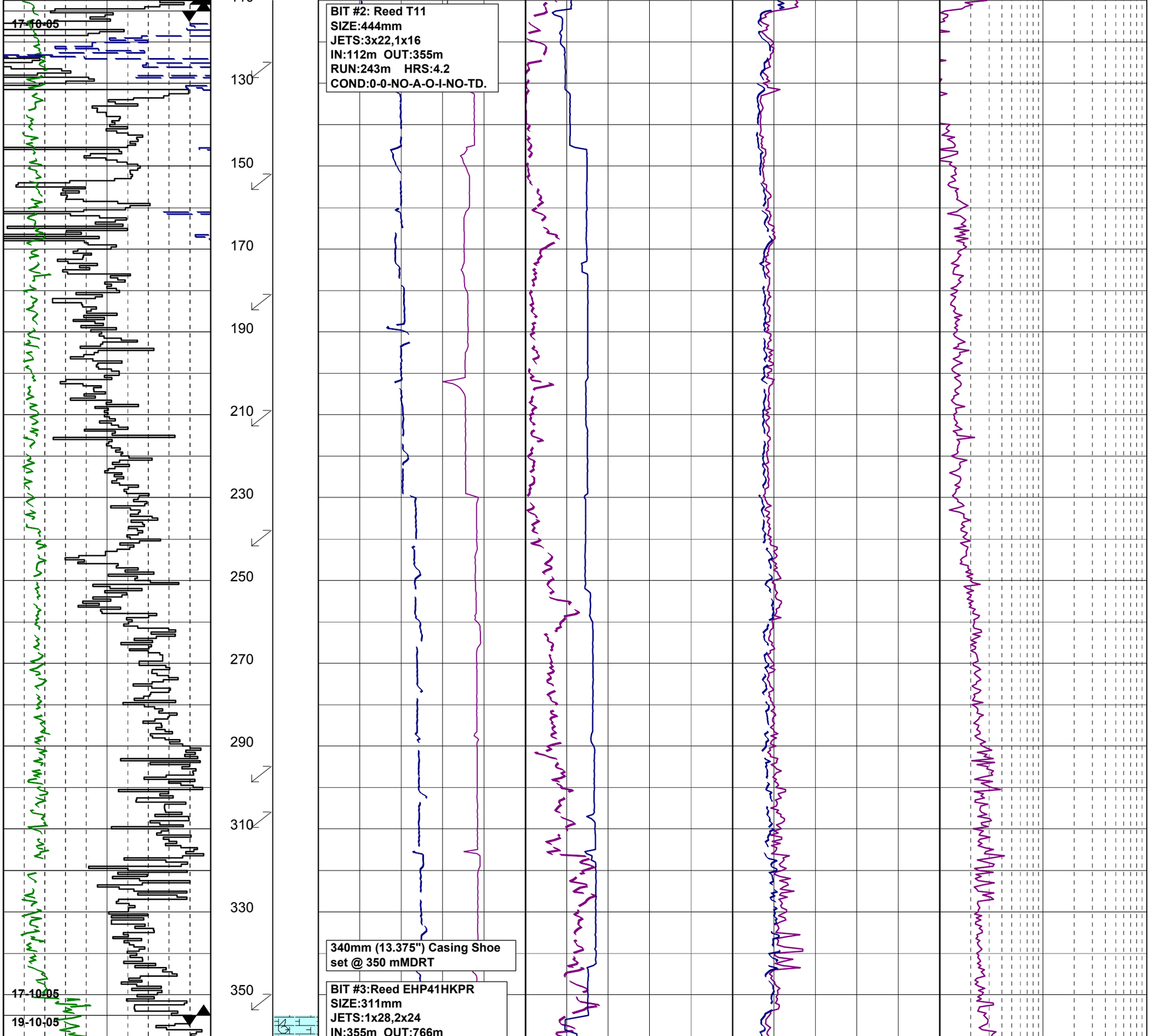
LITHOLOGY LEGEND

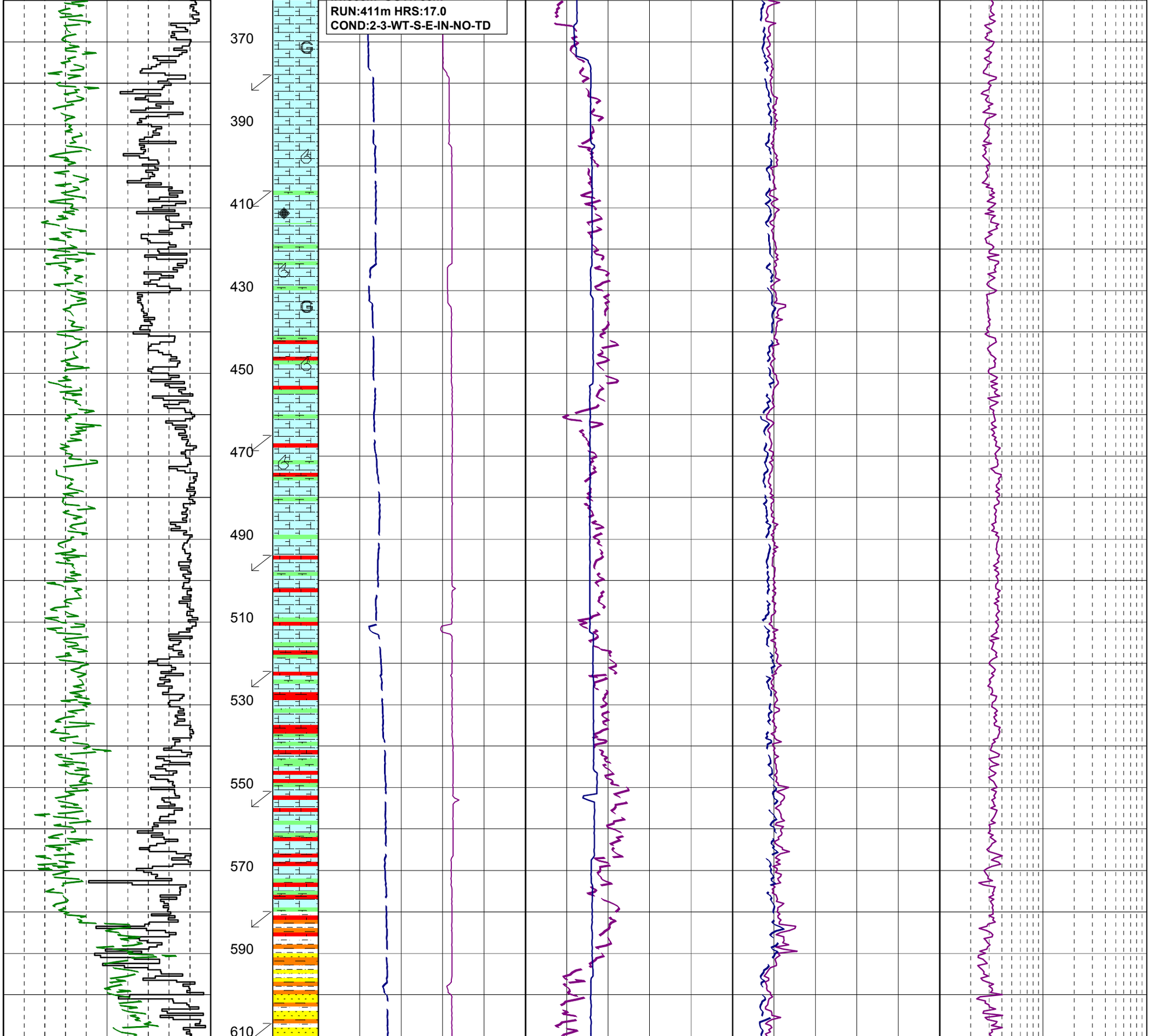
Limestone
Med Sandstone
Fine Sandstone
Siltstone
Claystone
Calcarenite
Calcisiltite
Calcilutite
Anhydrite
Coal
Marl
Dolomite
Carb. Siltstone
Calc Claystone
Lithic frag
Pyrite
Glauconite
Mica
Ferrous
Fossils
Calcareous
Dolomitic
Chert

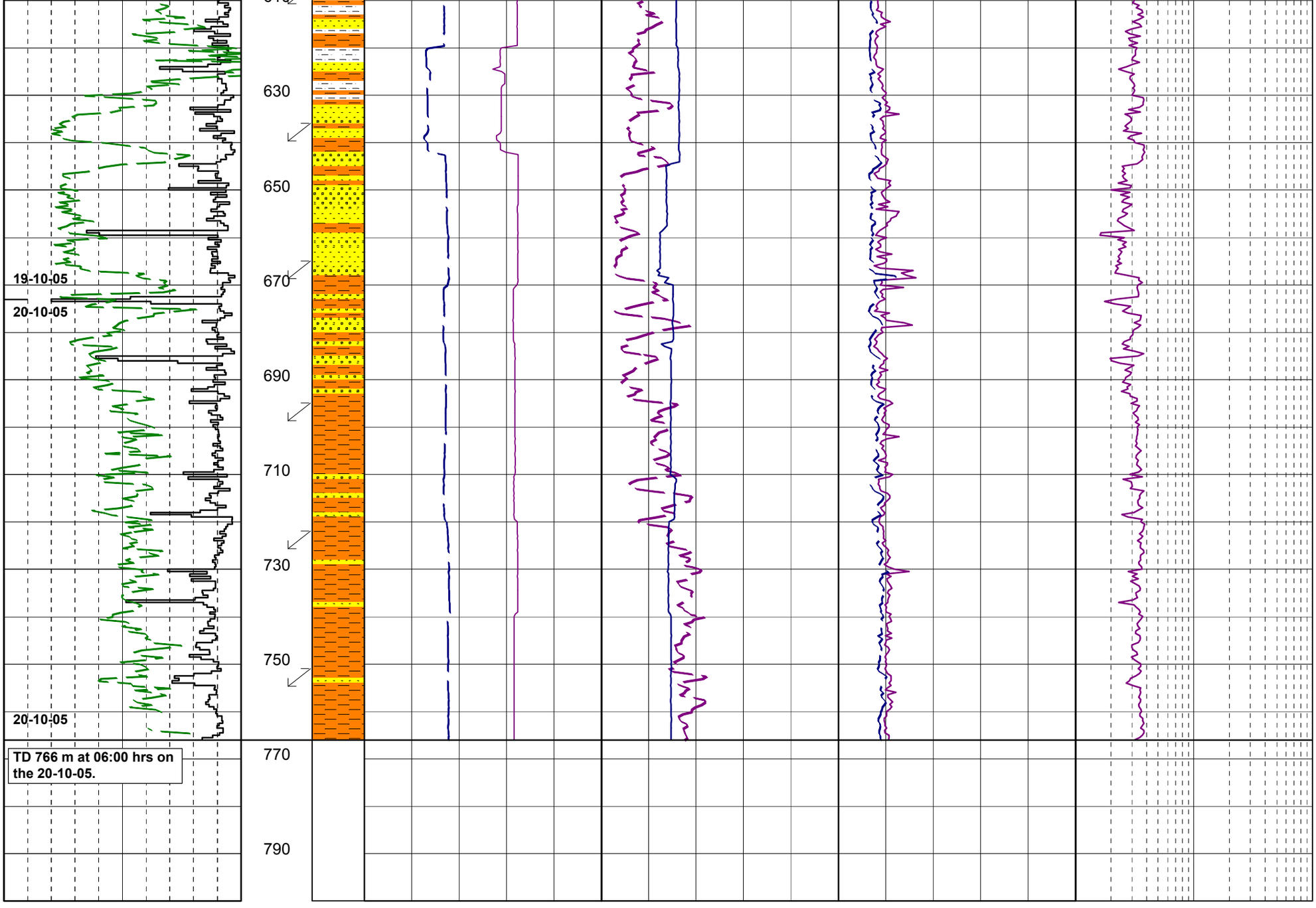
ENGINEERING LEGEND

Deviation Surve
Casing Shoe
Wiper Trip
SWC (rec)
SWC (unrec)
Core
Bit Trip




17-10-05
BIT #2: Reed T11
SIZE:444mm
JETS:3x22,1x16
IN:112m OUT:355m
RUN:243m HRS:4.2
COND:0-0-NO-A-O-I-NO-TD.
130
150
170
190
210
230
250
270
290
310
330
340mm (13.375") Casing Shoe
set @ 350 mMDRT
350
BIT #3:Reed EHP41HKPR
SIZE:311mm
JETS:1x28,2x24
IN:355m OUT:766m
17-10-05
19-10-05


RUN:411m HRS:17.0
COND:2-3-WT-S-E-IN-NO-TD
370
390
410
430
450
470
490
510
530
550
570
590
610


630
650
670
690
710
730
750
770
790
19-10-05
20-10-05
20-10-05
TD 766 m at 06:00 hrs on the 20-10-05.

PRESSURE EVALUATION LOG

WELL : MACLEAN 1

FROM (m): 50 TO (m): 800 SCALE: 1/ 1000

BASS STRAIT Oil — Oil for Australians

Geoservices

Country	: AUSTRALIA	**POSITION**		**CASING**	
Region	: VICTORIA	Latitude	: 38°02'46.32"S	508mm Shoe at (mMDRT)	: 110.9m
Field	: GIPPSLAND BASIN	Longitude	: 148°32'52.92"E	340mm Shoe at (mMDRT)	: 350.0m
Permit	: VIC/P-47	X (m)	: 620,701.1 mE		
Well Type	: VERTICAL EXPLORATION	Y (m)	: 5,798,512.1 mN		
Rig Name	: OCEAN PATRIOT	RT-MSL (m)	: 21.5		
		RT-Seabed (m)	: 78.5		

Spud Date	: 16-10-2005		
Total Depth Date	: 20-10-2005		
Total Depth (mRT)	: 766.0m		
T.V.D. (mSSMSL)	: 744.50m		
Status	: P&A		

ABBREVIATIONS

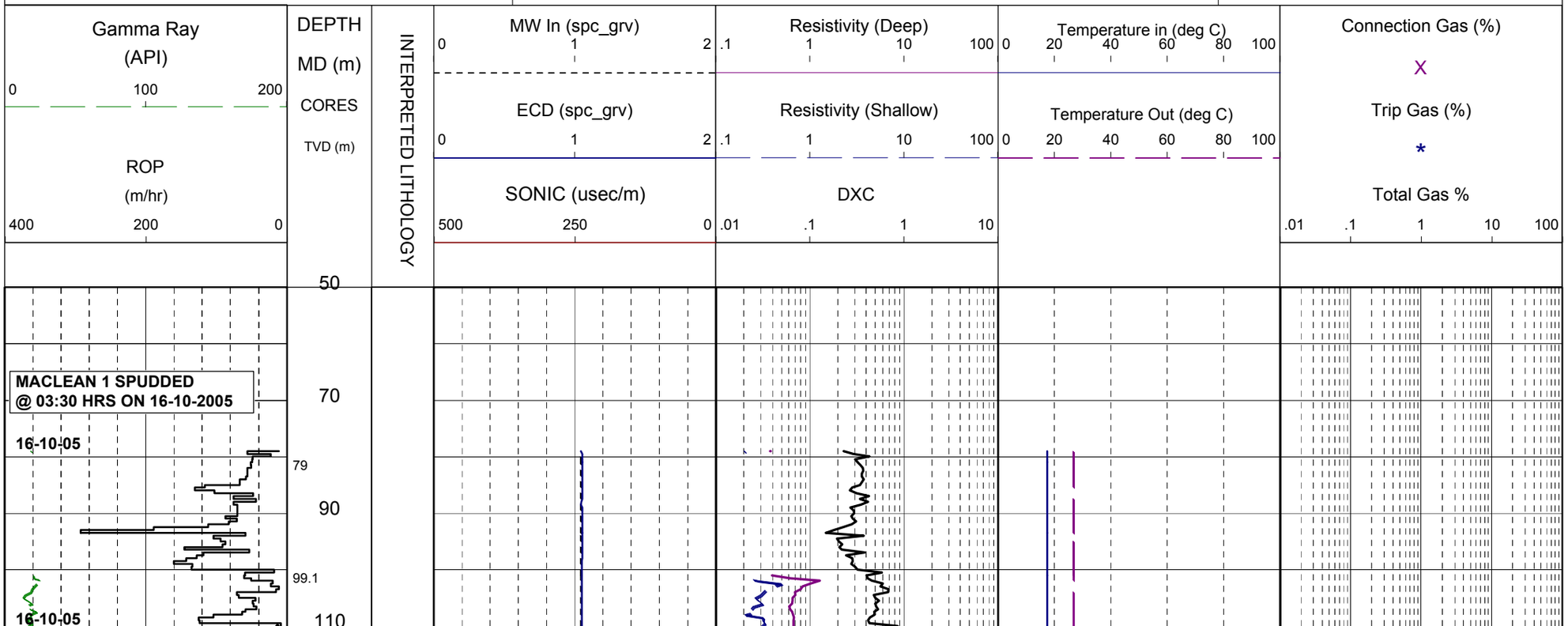
MW MUD WEIGHT	NB NEW BIT
FV FUNNEL VISCOSITY	RR RERUN BIT
PV PLASTIC VISCOSITY	CB CORE BIT
YP YIELD POINT	WOB WEIGHT ON BIT
FC FILTER CAKE	RPM REVS PER MINUTE
SOL SOLIDS	FLC FLOW CHECK
WL FILTRATE	CR CIRCULATE RETURNS
SD SAND - %	PR POOR RETURNS
S SALINITY - PPM	NR NO RETURNS
RM MUD RESISTIVITY	BG BACKGROUND GAS
RMF MUD FILTRATE	TG TRIP GAS
C CARBIDE TEST	STG SHORT TRIP GAS
LAT LOGGED AFTER TRIP	CG CONNECTION GAS
DS DEVIATION SURVEY	SG SWAB GAS
	SVG SURVEY GAS

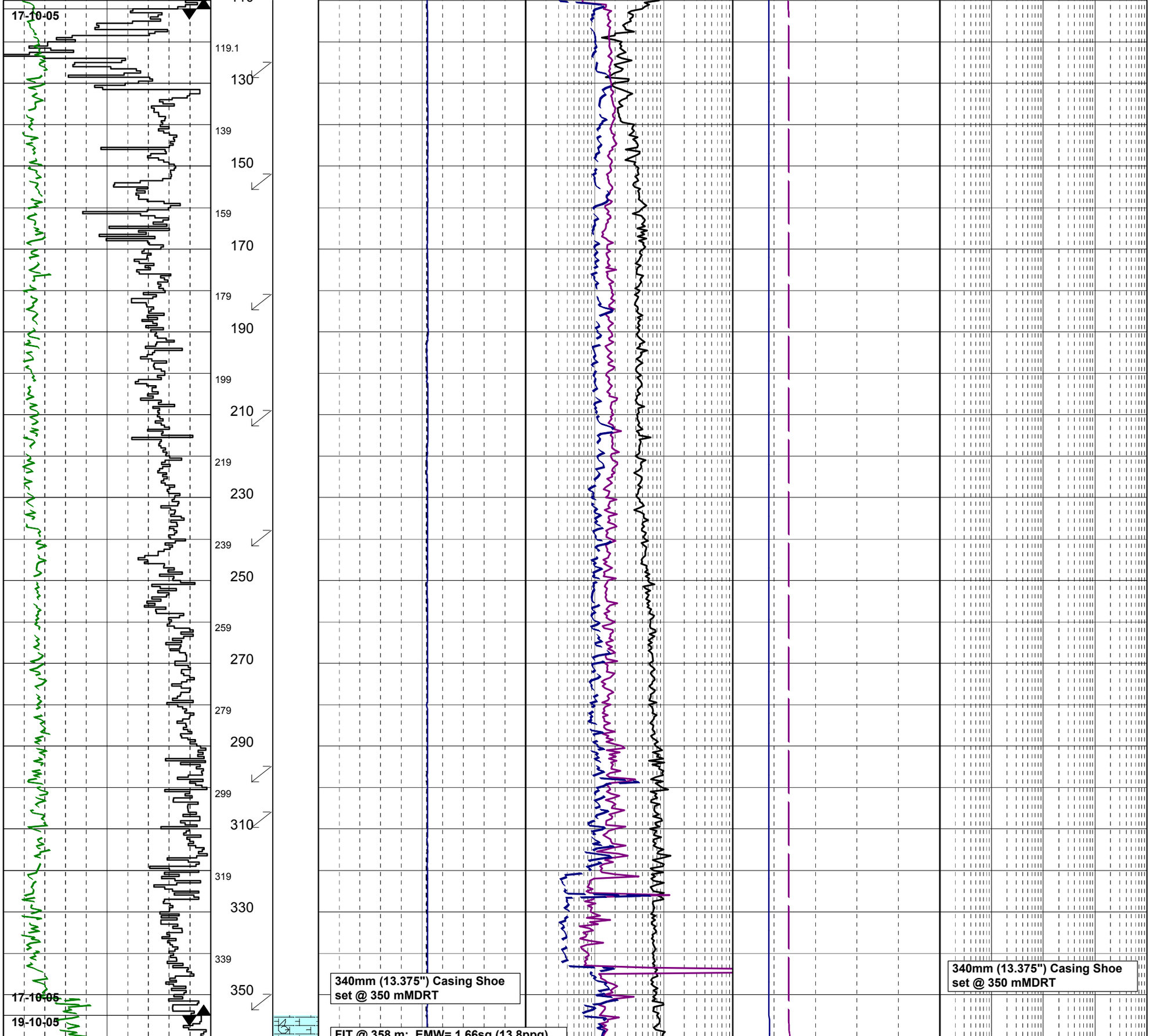
LITHOLOGY LEGEND

- Limestone
- Med Sandstone
- Fine Sandstone
- Siltstone
- Claystone
- Calcarenite
- Calcisiltite
- Calcilutite
- Anhydrite
- Coal
- Marl
- Dolomite
- Carb. Siltstone
- Calc Claystone
- Lithic frag
- Pyrite
- Glauconite
- Mica
- Ferrous
- Fossils
- Calcareous
- Dolomitic

ENGINEERING LEGEND

- Deviation Surve
- Casing Shoe
- Wiper Trip
- SWC (rec)
- SWC (unrec)
- Core
- Bit Trip




17-10-05
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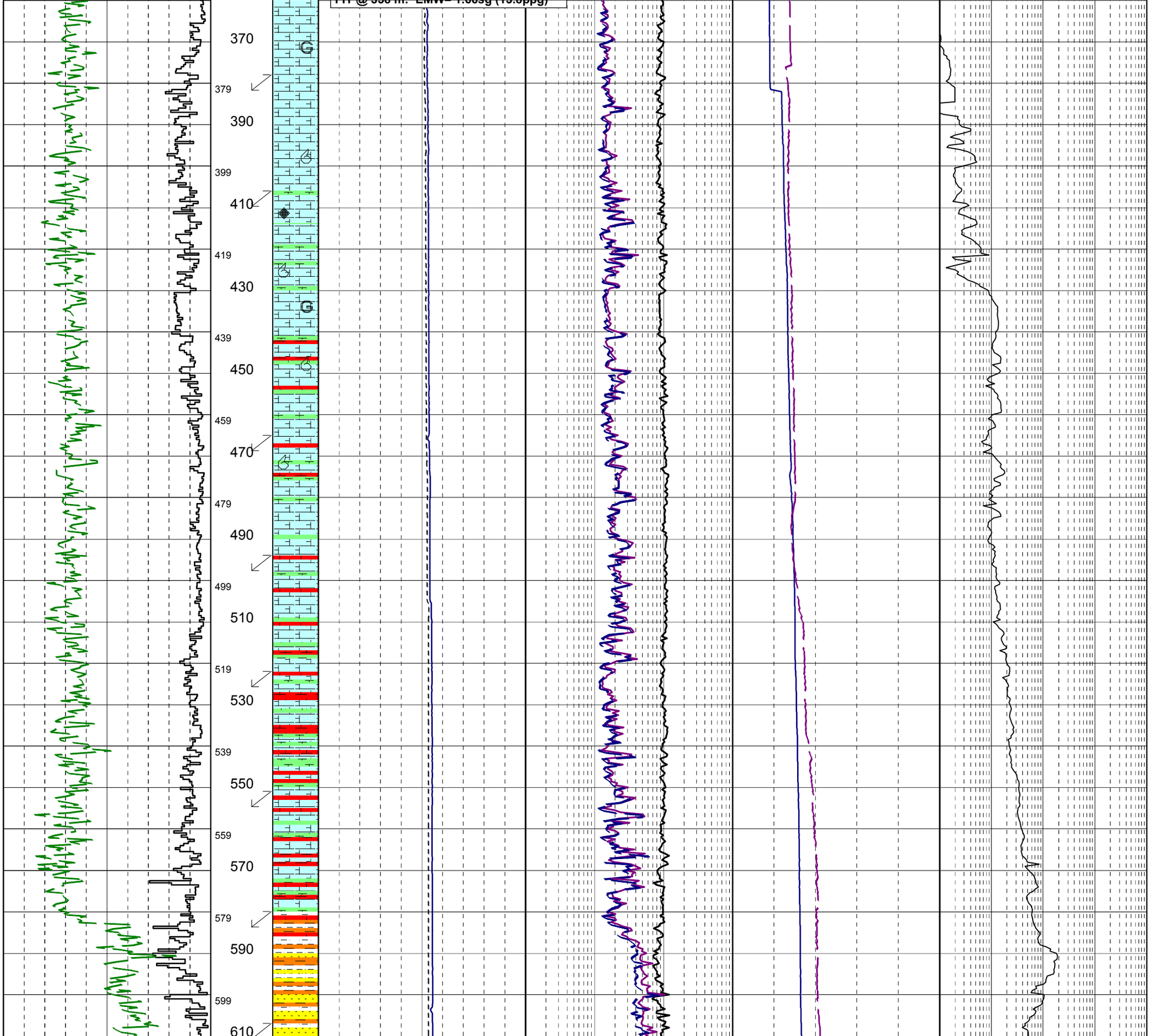
17-10-05
19-10-05
340mm (13.375") Casing Shoe
set @ 350 mMDRT
FIT @ 358 m; EMW= 1.66sg (13.8ppg)
340mm (13.375") Casing Shoe
set @ 350 mMDRT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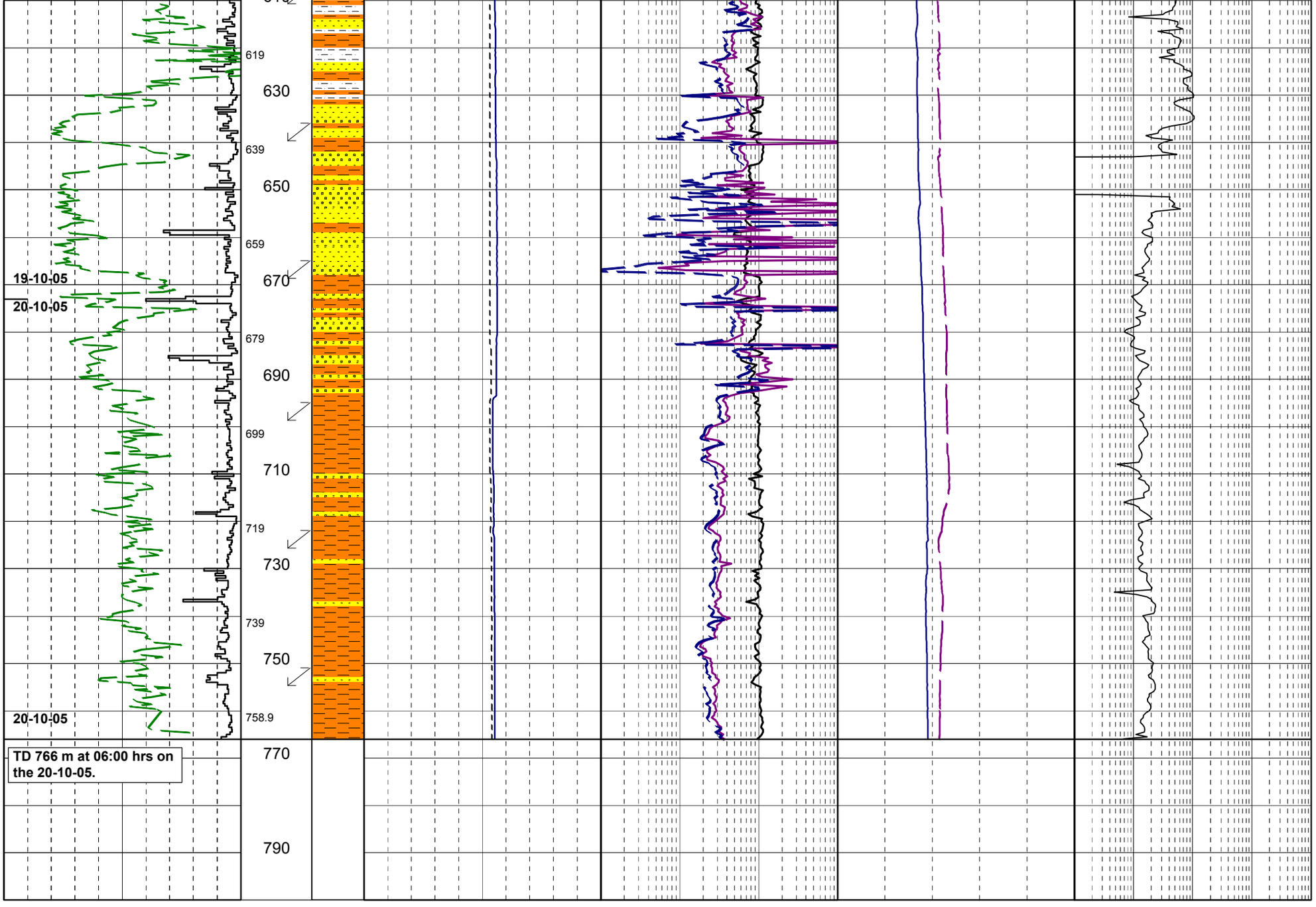
599
610


619
630
639
650
659
19-10-05
670
20-10-05
679
690
699
710
719
730
739
750
20-10-05
758.9
770
790
TD 766 m at 06:00 hrs on the 20-10-05.

GAS LOG

BASS STRAIT OIL — Oil for Australians

Geoservices

FROM :(m) 340 TO :(m) 800 SCALE : 1/ 500

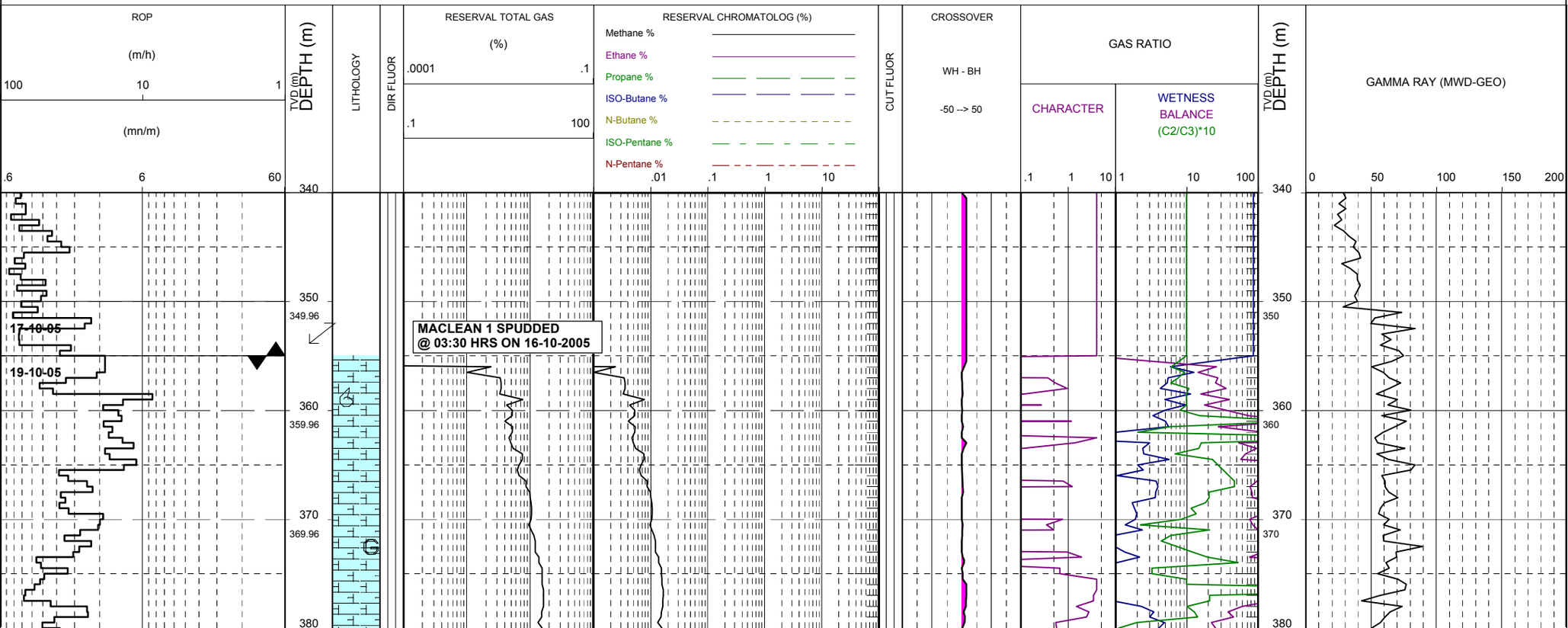
Well name	: MACLEAN 1	Location	: 38°02'46.32"S	148°32'52.92"E	Rig Name : OCEAN PATRIOT
Client name	: BASS STRAIT OIL	Country	: AUSTRALIA		Rig Type : SEMI SUBMERSIBLE
RT-MSL (m)	: 21.5	Final TD (m)	: 766.0m		X Coord (m) : 620,701.1 mE
RT-Seabed (m):	78.5	TVD (mSSMSL)	: 744.50m		Y Coord (m) : 5,798,512.1 mN

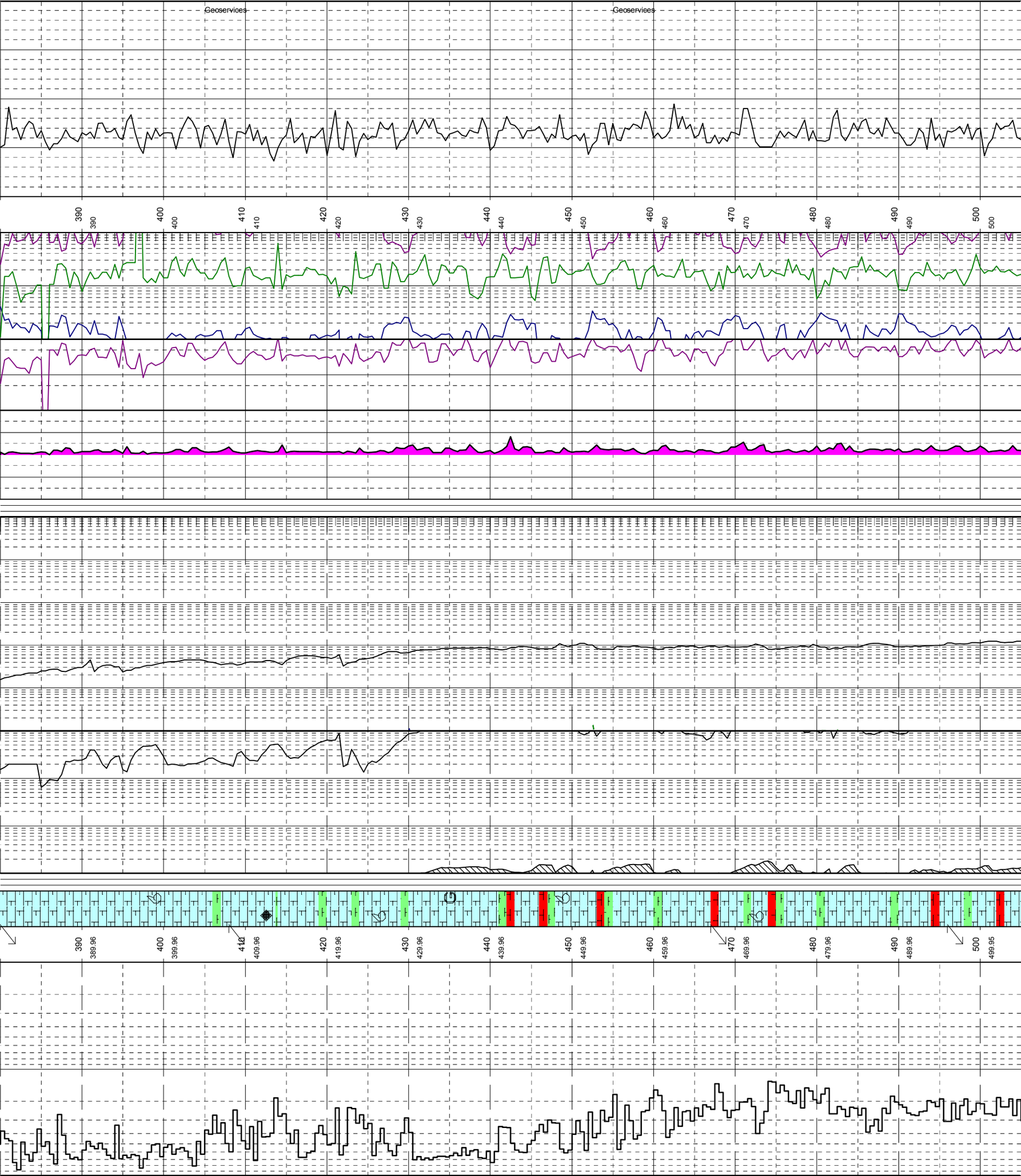
Limestone, Med Sandstone, Fine Sandstone, Siltstone, Claystone, Calcarenite, Calcisiltite, Calcilutite, Anhydrite

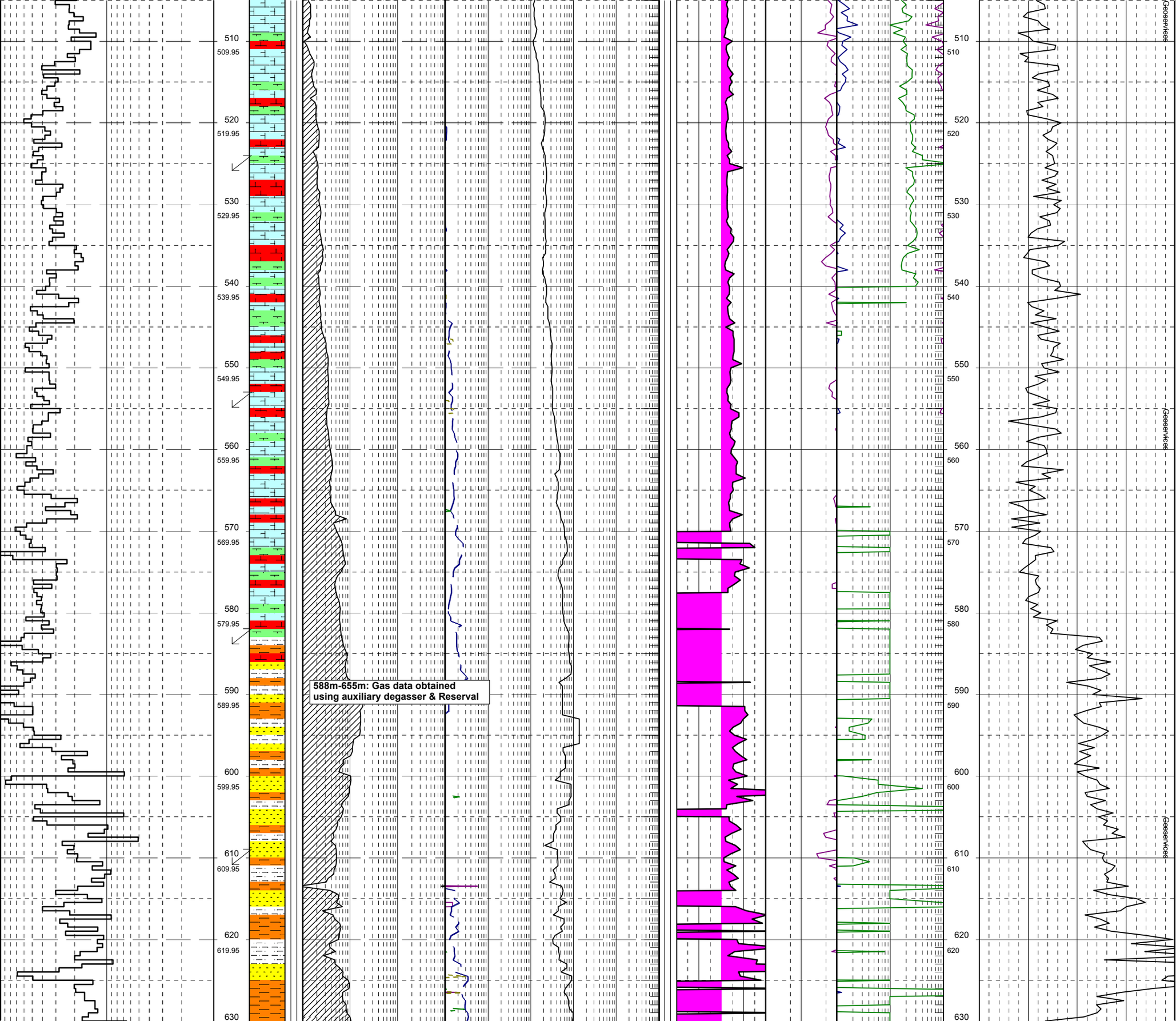
Coal, Marl, Dolomite, Carb. Siltstone, Calc Claystone

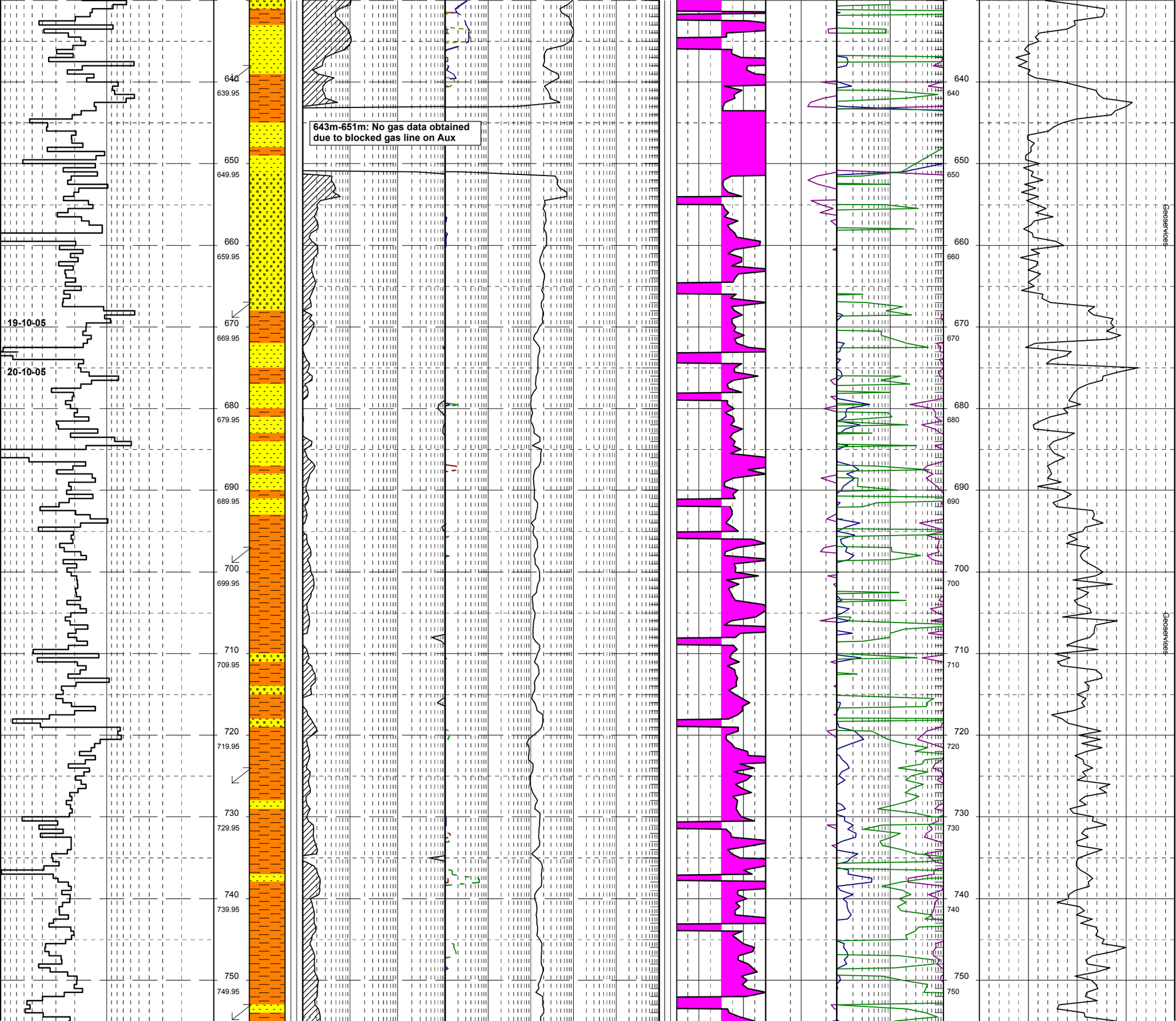
Lithic frag, Foraminifera, Pyrite, Glauconite, Mica, Ferrous, Fossils, Calcareous, Chert

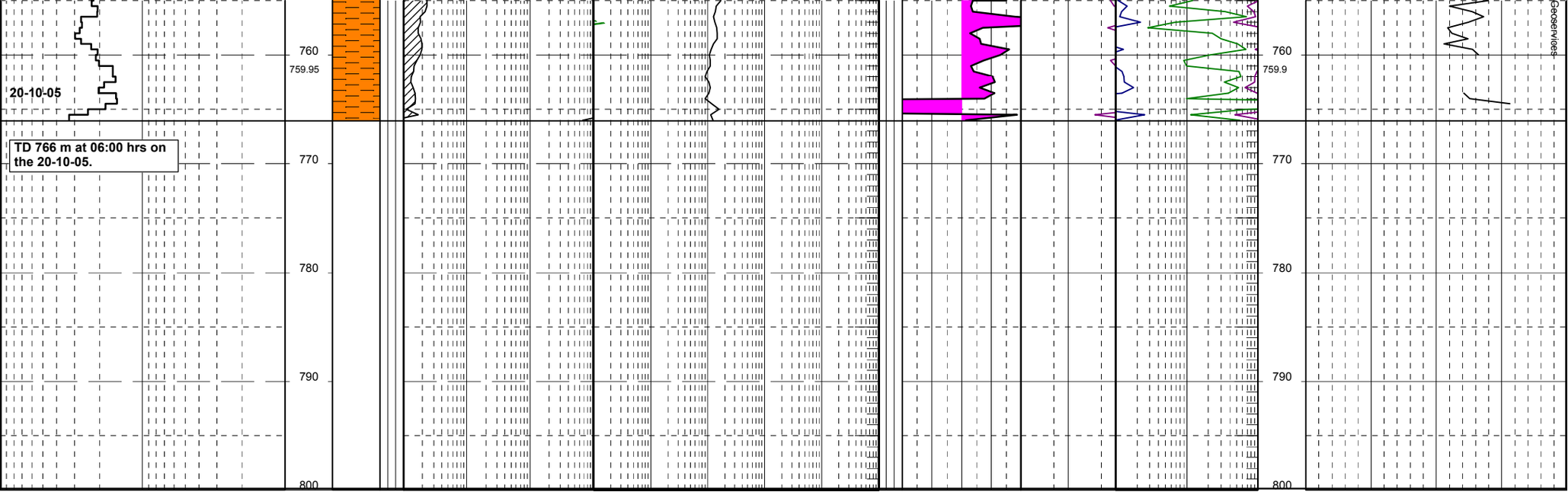
Deviation Surve, Casing Shoe, Wiper Trip, SWC (rec), SWC (unrec), Core, Bit Trip




Geoservices
Geoservices
390
400
410
420
430
440
450
460
470
480
490
500
389.96
399.96
409.96
419.96
429.96
439.96
449.96
459.96
469.96
479.96
489.96
499.95


588m-655m: Gas data obtained
using auxiliary degasser & Reserval
510
509.95
520
519.95
530
529.95
540
539.95
550
549.95
560
559.95
570
569.95
580
579.95
590
589.95
600
599.95
610
609.95
620
619.95
630
Geoservices


643m-651m: No gas data obtained due to blocked gas line on Aux
19-10-05
20-10-05
640
639.95
650
649.95
660
659.95
670
669.95
680
679.95
690
689.95
700
699.95
710
709.95
720
719.95
730
729.95
740
739.95
750
749.95
Geoservices
Geoservices


20-10-05
TD 766 m at 06:00 hrs on the 20-10-05.
760
759.95
770
780
790
800
760
759.9
770
780
790
800
Geoservices