

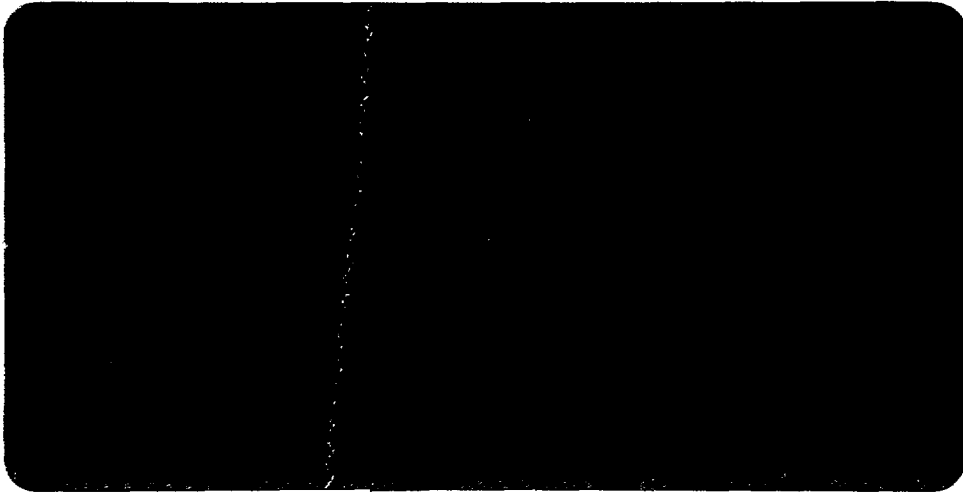
APPENDIX 1

12 DEC 1985

DEPT. NAT. RES & ENV



PE906217



SUPERVISION REPORT ON THE
POSITIONING OF THE RIG
DIAMOND M. EPOCH ONTO LOCATION OMEO 2-2A
FOR
AUSTRALIAN AQUITAINE PETROLEUM PTY LTD

12 DEC 1985 3rd - 12th May, 1985

W907

OIL and GAS DIVISION

Norman P. McGowan
ECL Australia Pty Ltd
16 Altona Street
West Perth 6005
Western Australia

ECL AUSTRALIA PTY. LTD.

C O N T E N T S

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1. Project Objectives
2. Statistical Analysis of Project Time
3. Marker Buoy Location/Diamond M Epoch Location
4. General Data
5. Project Summary
6. Survey Details/Transponder Locations
7. Daily Diary Summary
8. Daily Diary
9. Recommendations and Conclusions
10. Daily Time Logs
11. Plates
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1. PROJECT OBJECTIVES

To locate the rig Diamond M. Epoch on wellsite OMEO - 2.

Method used for positioning:

1. Utilisation of the OASIS Offshore Acoustic/Satellite Integrated System onboard the Coral J to place and calibrate a deployed transponder net.
2. Lay a buoy pattern consisting of four Anchor and Location Buoys.
3. Move the rig onto location and establish the final position by a series of transit fixes.

2. STATISTICAL ANALYSIS OF PROJECT TIME

Statistical Analysis of Production between 12.05 on the 03rd May
and 12.30 on the 12th May 1985.

	<u>TOTAL HOURS</u>	<u>% OF TOTAL HOURS</u>
Calibration	90.50 Hrs	41.82%
Standby	54.92 Hrs	25.38%
Travel	37.17 Hrs	17.17%
Mob/Demob Equipment	14.92 Hrs	06.89%
Laying Buoys	07.83 Hrs	03.62%
Fix's on Rig	03.25 Hrs	01.50%
Equipment recovery	03.00 Hrs	01.40%
Meetings at Aquitaine Base	02.00 Hrs	00.92%
Fix's on Buoys	00.83 Hrs	00.38%
	<u>TOTAL HRS 216.42 Hrs</u> =====	100.00%

3. MARKER BUOY LOCATION

Location Buoy	5726693.23 N - 561881.78 E
Anchor #2 Buoy	5725677.12 N - 561349.37 E
Anchor #3 Buoy	5572667.56 N - 560927.43 E
Anchor #6 Buoy	5727709.42 N - 562530.22 E
Anchor #7 Buoy	5726684.11 N - 562976.82 E

DIAMOND M. EPOCH LOCATION

Specified

038 DEG 36 MIN 22.912 S
147 DEG 42 MIN 37.269 E A.N.S.
5726649 N
561850 E U.T.M. Zone 55 C.M. 147.00 DEG E

AquaFix/2 final fix at 11.51, 11th May 1985

038 DEG 36 MIN 22.615 S
147 DEG 42 MIN 38.150 E A.N.S.
5726659 N
561872 E U.T.M. Zone 55 C.M. 147.00 DEG E
Offset: 23 metres bearing 067.DEG from intended.

NOTE:

Rig moved location subsequent to authors departure from site and the final position as quoted by Racal Survey based on JMR satellite was:-

ANS 38 DEG 36 MIN 21.864 S
 147 DEG 42 MIN 38.364 E
UTM 561877.3 E
 5726682.1 N

Position was 41.79m bearing 39.3 DEG true from intended.

4. GENERAL DATA

Name of Well : Omeo - 2 - 2A

Type : Exploration Well

Permit : VIC/P17

Location : Intersection of Seismic lines : GA81-32
and GA84A-407
Long = 147 DEG 42 MIN 37.269 E
Lat = 038 DEG 36 MIN 22.912 S
X = 561850.6
Y = 5726649.7

Water Depth : 62m

Distances : Port Welshpool = 105km
Nearest landfall (90 Mile beach) = 51km.
Nearest Wells:-
Omeo - 1 at 0.95 km to the Southwest
Tarra - 1 at 4.2 km to the South/Southwest

Rig : DIAMOND M. EPOCH
Semisubmersible rig : KB = +22m

5. PROJECT SUMMARY

Client : Australian Aquitaine Petroleum Pty Ltd
Project : Positioning Rig Diamond M. Epoch
Wellsite : OMEO - 2
Location : 038 DEG 36 MIN 22.912 S
147 DEG 42 MIN 37.269 E ANS
5726649.70 N
561850.60 E AMG UTM Zone 55 CM 147 DEG E
Water Depth : 62 metres
Equipment : Aqua Fix/2 Acoustic Positioning

Personnel

Master : John Stephens
Survey Operators : Peter Talin
Dave Bell
Survey Vessel : Coral J
Port of Operation : Port Welshpool, Victoria
Duration : 3rd - 12th May 1985

Survey Details

Spheroid : Australian National
Semi-Major Axis : 6 378 160.00 metres
Semi-Minor Axis : 1 356 774.72 metres
Ellipticity : 1/298.25
Local to WGS-72 : Delta X -122 metres
Delta Y - 41 metres
Delta Z +146 metres
UTM Projection : Australian Map Grid
Zone 55 - CM 147 DEG E
Datum : Australian geographic 1966

NOTE:

Datum shift values used were those supplied by Racal Survey and as used for Omeo 1.

Transponder Locations

<u>Channel</u>	<u>Grid</u>
A	5727634.60 N - 560137.42 E
B	5726495.17 N - 561724.72 E
C	5727775.84 N - 561801.78 E
D	5728431.78 N - 561020.19 E

ORIENTATION = 050.DEG ST. ERROR 05.30 m.

7. DAILY DIARY SUMMARY

DATE	ACTIVITY
02nd May	: Author departs for Melbourne. At Travel Lodge.
03rd May	: Departed for Welshpool. Equipment mob onto CORAL J.
04th May	: Travel to prospect, Lay Transponders, Calibration of net.
05th May	: Calibration of net.
06th May	: Calibration of net.
07th May	: Calibration of net. Travel to Welshpool, Standby
08th May	: Standby. Meeting. Resupply. Travel to prospect. Calibration of net.
09th May	: Laying Buoys, Fix's on Buoys, Standing by for Rig.
10th May	: Standing by for Rig. Fix's taken on all Buoys, Standing by while Rig lays anchors.
11th May	: Standing by while Rig lays anchors and ballasts, Fix's on rig. Picking up buoys. Transit fix on rig. Recovering Transponders. Travel to Welshpool. Standing by.
12th May	: Standby. Derig survey boat (CORAL J). Debriefing with Aquitaine Base. Travel to Perth.

8. DAILY DIARY

May 02nd, 1985

- 08.30 Author departs for ECL office Perth.
09.20 Discussion with ECL on Diamond M. Epoch Rig placement on OMEO-2 site.
10.25 Author departs for airport.
11.50 Author departs Perth for Melbourne.
17.30 Author arrives Melbourne, Staying at Melbourne Travelodge.

May 03rd, 1985

- 04.15 Author to Airport to meet with RACAL-SURVEY personal (P TALIN & D BELL)
06.15 Departed Melbourne for Welshpool.
08.15 Racal personal picked up JMR receiver from Beaumars Pty Ltd.
12.04 Arrived Welshpool - Meeting with Mr P. Ormerod & Mr S. Missios.
12.30 To MV BIANCA. Equipment check and mobilisation.
15.15 Told by Mr S. Missios to standby whilst dispute going on concerning authority to use the MV BIANCA.
15.45 Demobilised equipment from the MV BIANCA and mobilised the MV CORAL J.

May 04th, 1985

- 00.30 Departed Welshpool for prospect, weather calm, wind 10 Knots.
09.30 Arrived on location. Standing by for satellite.
10.00 Checking all Transponders, and equipment.
10.40 First satellite pass, located six miles from location. Believe this to be caused by strong currents.

12.10 Dropped Transponder channel #2 S/N 251 Code AB1245 and net
marker buoy.

12.32 Satellite position 56312.98E 572834.62 N. Positon from
location 2159.77m @ 036.1' true.

14.15 Completed Temperature/Salinity readings. (Using WILSONS
Formula) 1511.9 m/sec.

16.15 Deployed Transponder channel #6 S/N 331 Code A23.

16.30 Deployed Transponder channel #8 S/N 341 Code AC23.

17.00 Deployed Transponder #2, Transponder #1 not transmitting.

17.40 To marker buoy to recover Transponder #2.

18.15 Deployed Transponder #2. Transponder #1 not transmitting.

19.35 Completed relative geometry.

21.05 Completed orientation phase.

21.10 Sat pass #01. Position of transponder "A". 561355.99
5726155.00. Weather starting to deteriorate.

05th May, 1985

00.48 Sat pass #02, "A" 560007.05 5727727.92.

03.24 Sat pass #03, "A" 560096.45 5727687.95.

04.40 Sat pass #04, "A" 560156.36 5727721.03.

05.12 Sat pass #05, "A" 560202.63 5727683.14.

06.02 Sat pass #06, "A" 560216.41 5727670.26.

07.48 Sat pass #07, "A" 560244.95 5727659.26.

10.41 Sat pass #08, "A" 560265.88 5727659.11.

12.27 Sat pass #09, "A" 560273.73 5727645.65.

15.06 Sat pass #10, "A" 560279.35 5727641.85

16.30 Trying to release Transponder #1, Unsuccessful.

16.40 Sat pass #11, "A" 560279.70 5727641.80

21.36 Sat pass #12 "A" 560286.88 5727638.06.

Rough sea's 25 - 35 knot winds and the ships rolling causing Satellites with good elevation to receive too few doppler counts or too high RMS values.

06th May, 1985

03.02 Sat pass #13 "A" 560289.18 5727639.61.
04.50 Sat pass #14 "A" 560288.22 5727638.26.
05.00 MV Christmas Creek arrives on location.
05.40 Received from MV Christmas Creek two transponders Channel 1 S/N 351 Code AC25 and Channel 3 S/N 275 Code AC2345, also food supplies.
11.36 Sat pass #15 "A" 560327.92 5727635.96.
17.00 Tow fish cable lengthened from 5 metres to 8 metres to see if this results in less loss of signals from transponders while ship is rolling.
22.03 Sat pass #16. "A" 560334.62 5727634.23.

07th May, 1985

00.00 Sat pass #17, "A" 560324.36 5727630.60.
02.40 Sat pass #18, "A" 560326.54 5727629.77.
05.46 Sat pass #19, "A" 560321.92 5727634.92.
09.00 Sat pass #20, "A" 560321.92 5727634.02.
11.45 Sat pass #21, "A" 560321.15 5727634.95.
12.15 Author called Aquitaine Base requesting permission to proceed to shelter as weather and sea's too rough to obtain good acoustic ranges and satellite data.
12.30 Recovered Tow fish and steamed for Welshpool.
23.30 At Welshpool, discussion with S. Missios with regard to the problem of a small ship in bad weather. Author and Racal personnel departed for Foster Motel.

08th May, 1985

- 08.30 Meeting with Aquitaine Base and told that Diamond M. Epoch expected on location within eighteen hours.
- 09.30 Arrived at port waiting for Coral J Master and crew plus supplies.
- 11.30 Tested transponder #3 and departed for location.
- 21.10 Arrived at location and deployed tow fish.
- 20.40 Unable to track satellites to the rough weather, 35 to 40 knots winds large swell 3m.
- 23.40 Still unable to receive satellites.

09th May, 1985

- 00.06 Diamond M. Epoch 8 miles from location, standing by until weather abates.
- 00.20 Preparing to drop transponder #3.
- 01.15 Dropped transponder #3.
- 01.15 Reset computer and started to collect ranges to fix in #3 transponder to net. Seas still too rough to receive all transponder ranges at once.
- 06.45 Still finding weather too rough.
- 07.30 Weather improving. Collecting ranges.
- 10.45 Tow fish lowered to 13m.
- 11.45 All transponders relative geometry completed.
- 12.30 Weather 30 : 35 knots seas 2m swell.
- 13.00 Deployed Moonpool buoy.
1st Fix 561814 5726636.
2nd Fix 561819 5726606.
- 14.28 Deployed Anchor buoy #3.
- 15.10 Deployed Anchor buoy #7.
- 14.43 Deployed Anchor buoy #2.

16.30 Deployed Anchor buoy #6.
17.30 Attempted to pick up marker buoy, weather too rough to do so.
Standing by until daylight to take fix's on all buoys due to the rough weather.

10th May, 1985

00.00 Standing by until day light as too dangerous and dark to take fix's on buoys.
07.26 Fix on anchor #3, 560927 5726678.
07.50 Found that location buoy has moved in the right 500m NE of intended position.
07.59 Fix on anchor buoy #7, 562976 5726684.
08.16 Fix on anchor buoy #6, 562530 5727709.
08.40 Fix on anchor buoy #2, 561349 5725677.
08.50 Recovered moonpool buoy.
09.45 Diamond M. Epoch 8km away.
10.10 Location buoy deployed. Standing by on location buoy for Diamond M. Epoch. Fix taken on location buoy, 561881 5726693. 54m @ 035.DEG from intend.
11.20 Fix on #7 anchor buoy. Standing by on buoy for rig to drop anchor.
11.55 Anchor buoy #7 dropped.
12.15 Fix on #3 anchor buoy. Standing by on buoy for rig to drop anchor.
13.13 Anchor buoy # 3 dropped.
14.55 Fix on #2 anchor buoy. Standing by on buoy for rig to drop anchor.
15.55 Anchor buoy #@ dropped.
16.00 Fix on #6 anchor buoy.
16.30 Anchor buoy #6 dropped. Diamond M. Epoch requested position

as lost location buoy under rig pontoons.

- 18.00 Position of Diamond M. Epoch. 100m @ 270 from location.
19.20 #4 Anchor dropped. Standing by for tide, also weather improving.

11th May, 1985

- 00.13 #5 Anchor buoy dropped.
00.48 #8 Anchor buoy dropped.
01.27 #1 Anchor buoy dropped.
01.38 Fix taken on Diamond M. Epoch. 561893 5726669,, 46m @ 065. DEG from intended.
02.00 Standing by for Diamond M. Epoch to ballast and tension anchors.
09.00 Diamond M. Epoch still ballasting. Picking up Buoys #2, #3, #7.
09.30 Ballasting complete. Start of Transit Fix.
10.35 Transit Fix Diamond M. Epoch 561873 5726649. Offset from intended 22m @ 073.00'.
11.51 Transit fix. Diamond M. Epoch 561872 5726659. Offset from intended 23m @ 67.00'.
12.15 Released by Diamond M. Epoch.
12.45 Recovered Transponder #8.
13.10 Recovered Transponder #2.
13.30 Recovered Transponder #6.
13.45 Recovered Anchor buoy #6.
14.10 Attempted further recovery of transponder #1, without success.
14.40 Recovered Transponder #3.
14.42 Departed OMEO-2 location for Welshpool.
16.40 Author has been informed by Diamond M. Epoch that rigs base plate has to be moved because of location buoy weights

(Three lengths of 2m railway rails are under baseplate).

23.40 Arrived Welshpool. Debrief with S. Missios at Aquitaine
Base re position of Rig.

12th May, 1985

00.30 Departed Welshpool for the Toora Lodge.
00.50 At Toora Lodge.
09.00 At Aquitaine Base.
09.30 Start to derig Coral J.
11.30 Completed derig. Packed all equipment at Aquitaine's base.
14.30 Departed Welshpool for Melbourne and Perth.
20.30 Author arrived Perth.

9. RECOMMENDATIONS AND CONCLUSIONS

1. Due to the unavailability of the MV Christmas Creek, the Coral J, a small fishing boat, was used. The size of the vessel, combined with the usual adverse weather conditions prevailing in the Bass Strait, created numerous problems, namely:-
 - a) loss of satellite data.
 - b) loss of transponder data.
 - c) extreme difficulty in deploying and retrieving transponders and marker buoys.
 - d) lack of sleep of the personnel due to the extremely rough conditions, and the delay before it was possible to place the Diamond M. Epoch on location.
2. Communication equipment placed on the Coral J by Aquitaine base was extremely poor. Improved communication would avoid much unnecessary worry.
3. Racal personnel found the Coral J's magnetic compass inadequate in the prevailing conditions to obtain accurate bearings for laying the transponder net from the main marker buoy. Author was informed that Racal can supply a portable gyro compass on request, and suggests that this be done in future.
4. Weather conditions precluded ship to rig transfer of Racal personnel as requested by Aquitaine, and the surveyor had to be air-lifted by helicopter from Aquitaine base.

5. The author was informed by Aquitaine's Mr S. Missios that he was not required to board the rig and was released at 12.30 on 12th May 1985. It should be noted that the rig moved location from that monitored by the author and detailed in this report and that the final position was derived from a satellite JMR measurement.

EQUIPMENT

JMR-1 Satellite Receiver

HP 21 MX computer

TI Silent 700 terminal

SINTROM 8042 tape reader.

HP9862A trackplotter.

All equipment had 100% backup.

10. DAILY TIME LOG

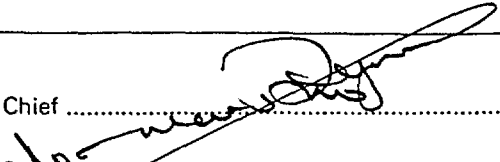
DAILY TIME LOG

DATE 3rd May 1985

ACTIVITY	FROM - TO	HOURS
At Melbourne Travel Lodge	00.00-04.15	04.25
Standing by for RACAL personnel	04.15-06.15	02.00
Departed Airport for Welshpool	06.15-08.15	02.00
Picked up JMR receiver in Beaumars.	0815-	
Continue to Welshpool.	-12.05	03.83
Checking and Mob of Equipment.	12.05-23.45	11.67
On board Coral J.	23.45-24.00	00.25

TOTALS

Standby	04.25	
Travel	05.83	
Mobilising Equipment	11.92	

P. Chief
O.C. 

DAILY TIME LOG

DATE 4th May 1985.

ACTIVITY	FROM - TO	HOURS
On board Coral J.	00.00-00.30	00.50
Travel to Prospect	00.30-09.30	09.00
Standing by for Sat fix's	09.30-12.10	02.57
Lay marker Buoy, Temp/Salinity	12.10-16.15	04.08
Laying all Transponders	16.15-17.00	00.75
Geometry/Orientation Phase completed.	17.00-21.05	04.08
Calibration of Net with Sat passes	21.05-24.00	02.92

TOTALS

Travel	09.00
Calibration of net.	15.00

P. Chief
O.C. *[Signature]*

DAILY TIME LOG

DATE 6th May 1985.

ACTIVITY	FROM - TO	HOURS
Calibration of Net with Sat passes.	00.00-24.00	24.00

TOTALS

Calibration of Net.	24.00	

P. Chief *[Signature]*
Q.C.

DAILY TIME LOG

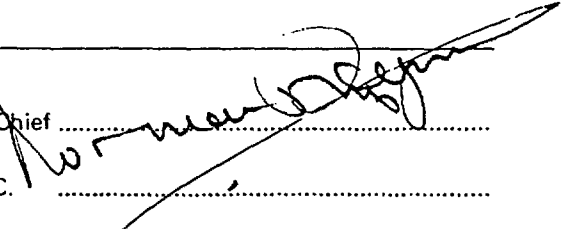
DATE 7th May 1985

ACTIVITY	FROM - TO	HOURS
Calibration of Net with Sat passes.	00.00-12.30	12.50
Travel to Welshpool - Weather too rough	12.30-22.30	10.00
Standby Welshpool.	22.30-24.00	01.50

TOTALS

Calibration of Net	12.50
Travel	10.00
Standby	01.50

P. Chief
Q.C.



DAILY TIME LOG

DATE 8th May 1985.

ACTIVITY	FROM - TO	HOURS
.Standby Welshpool.....	00.00-08.30	08.50
.Meeting at Aquitaine Base.....	08.30-09.30	01.00
.On board Coral 4 Resupply.....	09.30-11.30	02.00
.Travel to Net.....	11.30-20.40	09.17
.Calibration of Net with Sat passes.....	20.40-24.00	03.33
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TOTALS

Standby	08.50
Meeting	01.00
Resupply	02.00
Travel	09.17
Calibration	03.33

P. Chief *[Signature]*

O.C. _____

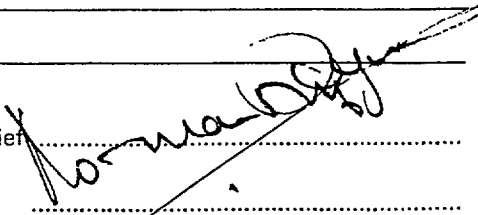
DAILY TIME LOG

DATE 10th May 1985

ACTIVITY	FROM - TO	HOURS
Standing by for Rig. Weather to rough.	00.00-07.25	07.42
Fix taken on Anchor Buoys.	07.25-08.15	00.83
Reposition moved moonpool buoy	08.15-10.15	02.00
Standingby while Rig lays anchors	10.15-24.00	13.75
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TOTALS

Standby	21.17
Fix's	00.83
Reposition of moonpool buoy	02.00
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P. Chief 

Q.C. _____

DAILY TIME LOG

DATE ..11th May 1985.....

ACTIVITY	FROM - TO	HOURS
Standing by while Rig lays anchors.	00.00-01.30	01.50
Fix on Rig	01.30-02.00	00.50
Standing by while Rig ballasts	02.00-09.00	07.00
Picking up Buoys	09.00-09.30	00.50
Transit fix on Rig.	09.30-12.15	02.75
Released by Rig. Recovered Transponders	12.15-14.45	02.50
Travel to Welshpool	14.45-23.45	09.00
Standing by.	23.45-24.00	00.25

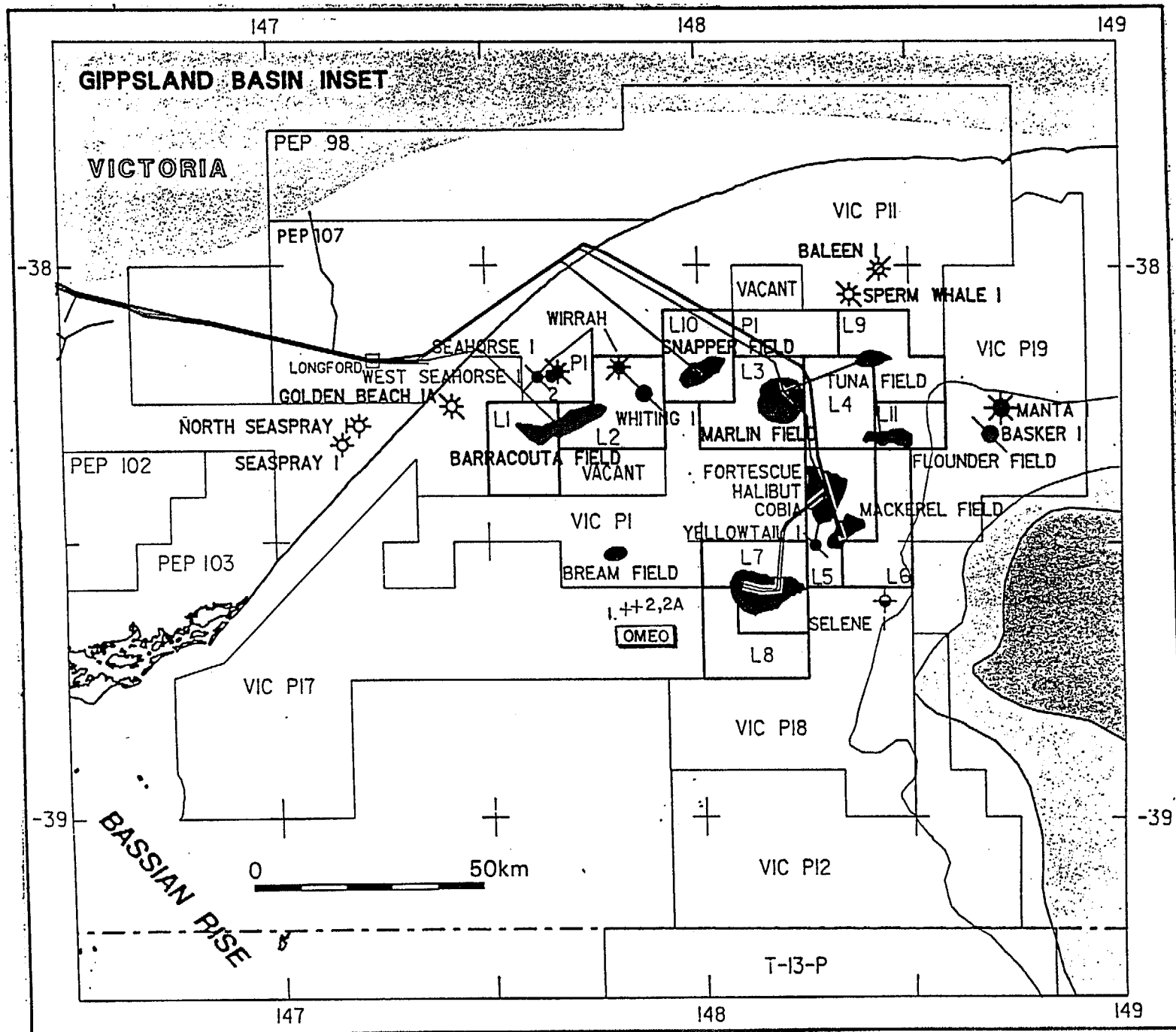
TOTALS

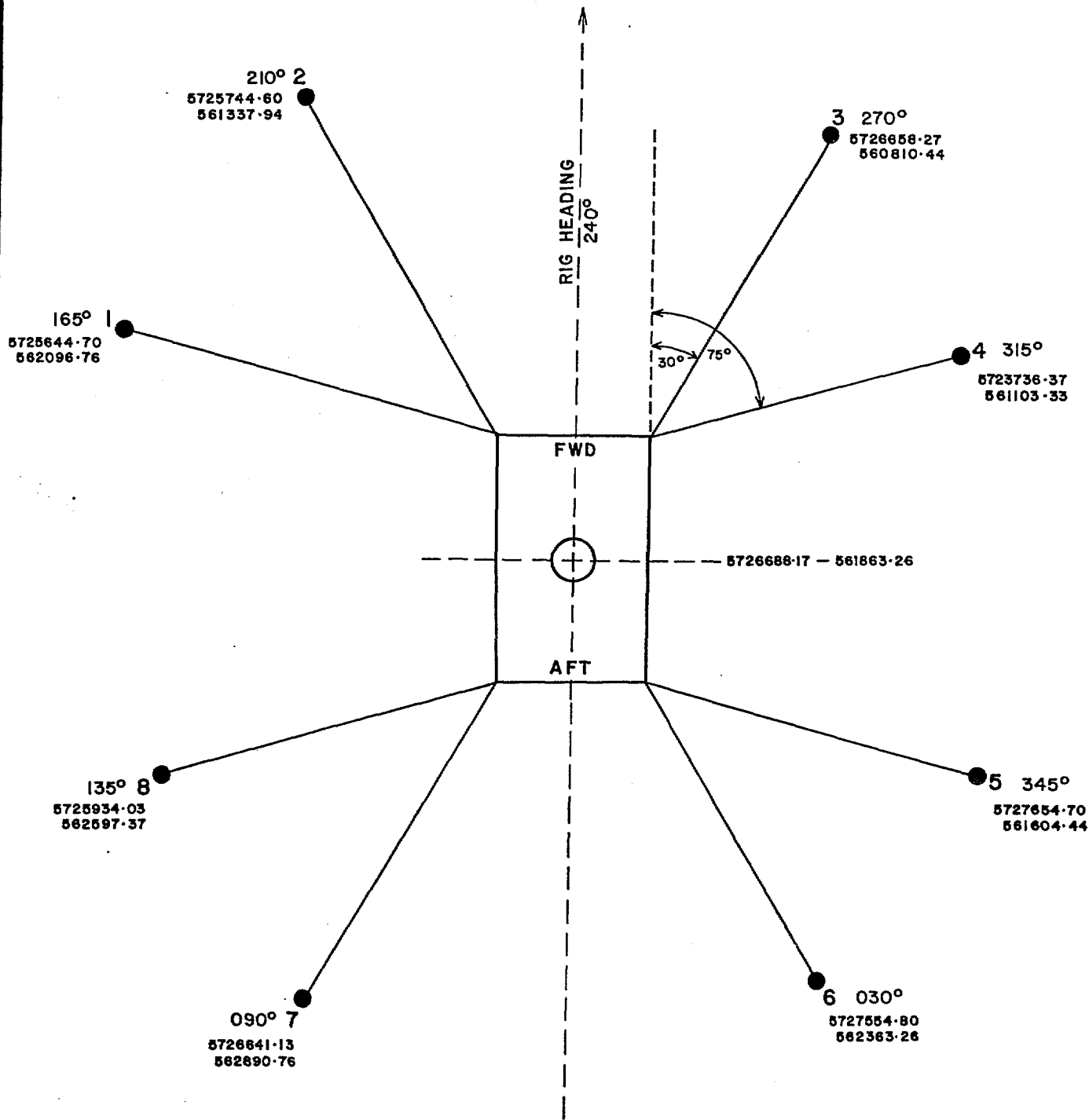
Standing by	08.75
Fix's	03.25
Equipment recovery.	03.00
Travel	09.00

P. Chief *[Signature]*
O.C. *[Signature]*

11. PLATES

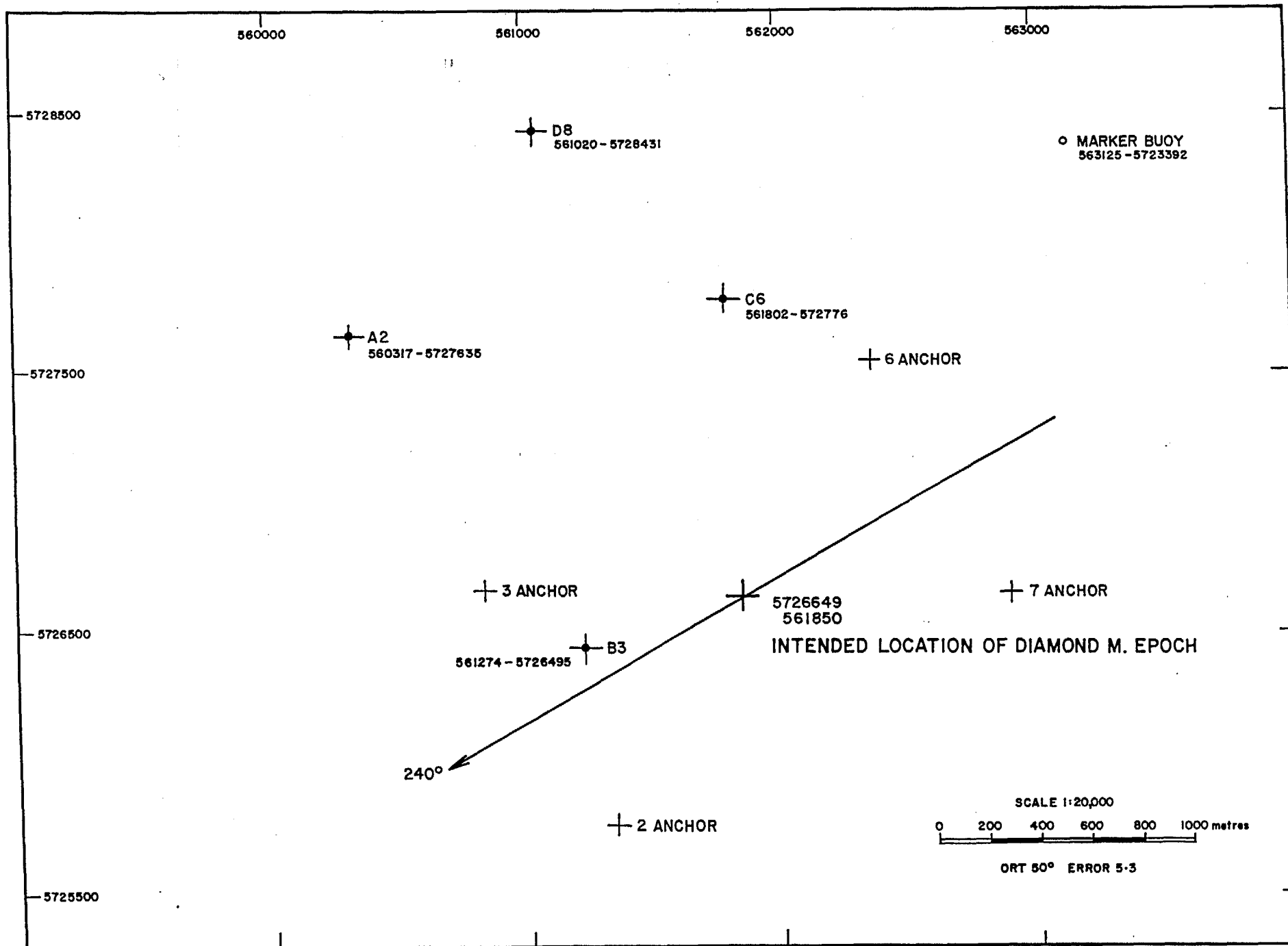
LOCATION MAP



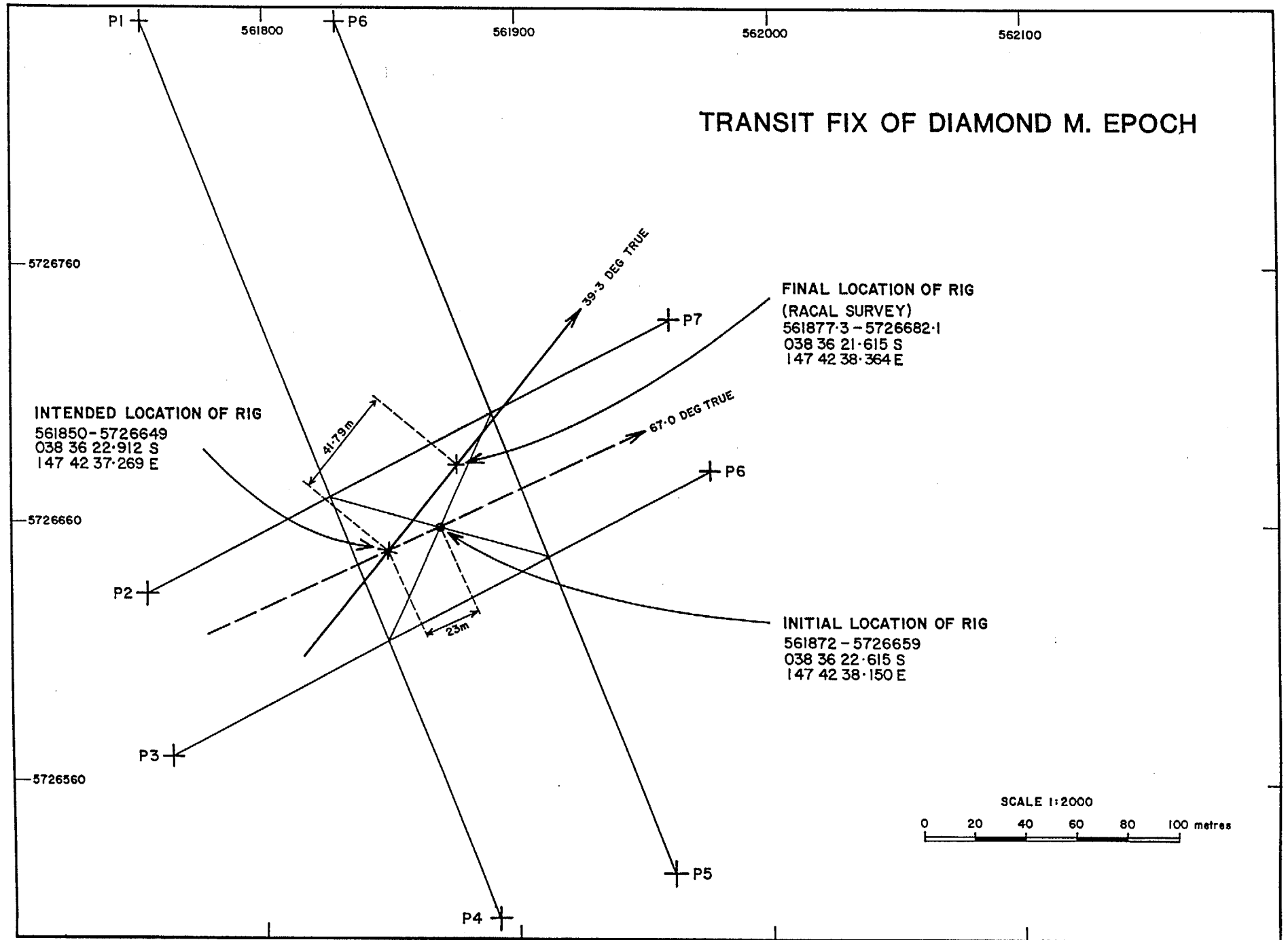


INTENDED LOCATION OF DIAMOND M. EPOCH
AND ANCHORS

TRANSPONDER LOCATION



TRANSIT FIX OF DIAMOND M. EPOCH



12. RACAL SURVEY DAILY LOGS

RACAL-SURVEY

DAILY LOG

4153

VESSEL MV. CORAL J

PROJECT LEADER P. TAREN

CLIENT AAP

DATE 2-5-85

PROJECT OMI.O-2 RIG MOVE


TIME ZONE EST. (GMT +10)

SYSTEM OASIS

TIME	NARRATIVE	INITIAL
2345	P. TAREN & D. BELL DEPARTED PERTH	
	3-5-85	
0615	P. TAREN & D. BELL AND CLIENT REP. N. MCGOWAN DEPARTED TULLARMARINE FOR WELSHPOOL	
0815	PICKED UP JMR RECEIVER IN BEAUMARIS	
1204	ARRIVED WELSHPOOL - MET WITH P. ORMEROD & S. MISSIONS	
1230	WENT TO INSPECT MV. BIANCA AND BEGIN MOBILISATION	
1515	DISPUTE CONCERNING AUTHORITY TO USE MV. 'BIANCA'	
1545	DEMOBILISED MV. 'BIANCA' AND STARTED MOBILISING MV. 'CORAL J.'	
	4-5-85	
0030	DEPARTED WELSHPOOL AND HEADING FOR LOCATION	

REMARKS

SIGNED 
PROJECT LEADER

SIGNED 
CLIENT REPRESENTATIVE

RACAL-SURVEY

DAILY LOG

VESSEL MV CORAL J.

4154

PROJECT LEADER P. TALEN

CLIENT AAP

DATE 4-5-85

PROJECT OMEO 2 RIG MOUNT

TIME ZONE EST (GMT-10)

SYSTEM OASIS

TIME	NARRATIVE	INITIAL
0930	ARRIVED ON LOCATION	
1000	WAITING FOR SATELLITE	
1040	SAT FIX LOCATES SHIP 6 KM SOUTH	
	OF LOCATION. STEAMED NORTH FOR 12 MINS	
1115	WAITED FOR SAT FIX AT 1112	
1130	SAT FIX STILL LOCATES SHIP AT 5 KM SOUTH	
	POSSIBLY DUE TO STRONG SOUTHERLY TIDES	
1210	STEAMED NORTH FOR 40 MINS AND DROPPED	
	MARKER BUOY.	
1232	SAT FIXED POSN OF BUOY 563126 E 572331.02 N	
	POSN. 2159.77 M @ 36° T FROM LOCATION	
1415	TEMP / SALINITY READINGS COMPLETED	
	DEPTH TEMP °C SALINITY ‰	
	0 17.7 33.90	
	10 17.4 33.95	
	20 17.4 34.05	
	30 17.3 34.15	
	40 17.3 34.25	
	50 17.3 34.35	
	100 17.3 34.40	
	17.34 34.15 AV.	
	V.P. (USING WILSON'S FORMULA) = 1511.9 M/SEC.	

REMARKS

SIGNED P. Talen
PROJECT LEADER

SIGNED [Signature]
CLIENT REPRESENTATIVE


RACAL-SURVEY


DAILY LOG

VESSEL RV CORAL T 4155
 PROJECT LEADER P. TALEN CLIENT AAP
 DATE 4-5-85 PROJECT OMEO-2 RIG MOVE
 TIME ZONE EST (GMT +10) SYSTEM OASIS

TIME	NARRATIVE	INITIAL
1615	DEPLOYED TRANSDUCER CH. 6 S/N 331 CODE	A23
1630	DEPLOYED TRANSDUCER CH 8 S/N 341 CODE	AC23
1700	DEPLOYED TRANSDUCER CH 1 S/N 222 CODE	AD125
1740	HEADED TO BUOY TO RECOVER TRANSDUCER 2 FROM MARKER BUOY	
1815	DEPLOYED TRANSDUCER CH 2 S/N 251 CODE TRANSDUCER (CH 1) CEASED OPERATION	AF1245
1830	COMMENCED RELATIVE GEOMETRY PHASE	
1935	COMPLETED RELATIVE GEOMETRY LEAST SQUARES SOLN 1	
	A .00 .00 62	
	B 1484.31 .00 62	
	C 771.22 727.28 62	
	LEAST SQUARES SOLN 2	
	A .00 .00 62	
	B 1484.06 .00 62	
	C 772.19 727.42 62	
	AVERAGE OF LEAST SQUARES SOLN	
	A .00 .00 62	
	B 1484.18 .00 62	
	C 771.70 727.25 62	
	DISCREPANCY = .58	

REMARKS

SIGNED 
 PROJECT LEADER

SIGNED 
 CLIENT REPRESENTATIVE

RACAL-SURVEY

DAILY LOG

VESSEL M.V. (OAM J)

4156

PROJECT LEADER P. TALEN

CLIENT AAR

DATE 4-5-87

PROJECT OMI-2 Full Mast

TIME ZONE (EST GMT +11)

SYSTEM OASIS

TIME	NARRATIVE	INITIAL
2105	ORIENTATION PHASE COMPLETED	
	ORIENTATION Y-AXIS = 335.4°	
	PARAMETERS USED FOR CALIBRATION	
	SEMI MAJOR AXIS (a) = 6378160	
	FLATTENING (f) = 298.25	
	D X = -122	
	D Y = -41	
	D Z = 146	
	CENTRAL MERIDIAN = E 147	
	SATELLITES USED : 11, 13, 20, 48, 50	
	ANTENNA HEIGHT (M) 0.6	
	TEMP, ATM PRESS, R.H. : 20, 1013 .6	
	STARBUCK TOWPOINT	
	LENGTH = 5 m	
	HEIGHT = 2 m	
	DIAGONAL FROM : 0	
	DISTANCE DATUM : 10 m	
	LOCATION AS SUPPLIED BY CLIENT	
	LAT S 38° 36' 22.912" LONG E 147° 40' 37.269"	
	E 561250.61 S 572662.00	

REMARKS

SIGNED 
PROJECT LEADER

SIGNED 
CLIENT REPRESENTATIVE

RACAL-SURVEY

DAILY LOG

VESSEL MV CORAL 'J'

4157

PROJECT LEADER P TALLEN

CLIENT AAP

DATE 5-5-85

PROJECT OMEO 2 RIG MOVE

TIME ZONE EST (GMT +10hrs)

SYSTEM OASIS

TIME	NARRATIVE	INITIAL
4/5/85 21.10	SAT PASS #1 SAT POS E 559679.74 S 5728173.18 EL 18" AC WRT NET X = -274.41 Y = 497.35 RMS 1.47 POSTN T/P A E 561355.99 S 5726155.00	
5/5/85 00.48	SAT PASS #2 SAT POS E 561385.8 S 5728183.6 EL 11" AC WRT NET X = 1449.68 Y = 240.10 ORNT 350.89 MUNT 2073.00 m @ 316 94° RMS = 21.92 POSTN T/P A E 560007.05 S 5727727.92	
03.24	SAT PASS #3 SAT POS E 561054.91 S 5727815.29 EL 35" AC WRT NET X = 816.94 Y = 51.24 ORNT 349.85° MUNT 97.96 m @ 113.66° RMS = 151.98 POSTN T/P A E 560096.45 S 5727687.95	
04.40	SAT PASS #4 SAT POS E 560193.71 S 5728580.57 EL 11" AC WRT NET X = -126.45 Y = 908.91 ORNT 353.88° MUNT -68.48 m @ 260.65° RMS = 217.0 POSTN T/P A E 560156.36 S 5727721.06	
05.17	SAT PASS #5 REMARKS SAT POS E 559925.66 S 5727463.47 EL 40" AC WRT NET X = -384.68 Y = 94.10 ORNT 351.01 MUNT 59.65 m @ 176.91° RMS = 201.73 POSTN T/P A E 560202.63 S 5727683.14	

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PROJECT LEADER

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CLIENT REPRESENTATIVE

RACAL-SURVEY

DAILY LOG

4158

VESSEL MY CORAL 5

PROJECT LEADER P. TALON

CLIENT AAP

DATE 5/5/55

PROJECT OMEO 2 RIG MOD

TIME ZONE EST (GMT -10:00)

SYSTEM OASIS

TIME	NARRATIVE	INITIAL
0602	SAT PASS #6	
	SAT POS E 561552.20 S 5726968.78 EL 31°	
	AL WRT NLT X = 1159.72 Y = -820.89	
	ORNT 350.96 MUNT 18.87 @ 132.65° RMS = 186.05	
	POS T/P A E 560216.41 S 5727670.26	
0144	SAT PASS #7	
	SAT POS E 560251.02 S 5727404.62 EL 42°	
	AL WRT NLT X = -181.81 Y = -202.38	
	ORNT 350.02 MUNT 30.60 @ 110.64° RMS = 183.48	
	POS T/P A E 560244.95 S 5726659.26	
1041	SAT PASS #8	
	SAT POS E 559446 S 5728111.13 EL 64°	
	AL WRT NLT X = -885.25 Y = 616.79	
	ORNT 350.36 MUNT 20.94 @ 89.96° RMS = 180.85	
	POS T/P A E 560265.88 S 5727659 "	
1227	SAT PASS #9	
	SAT POS E 561537.07 S 5728144.92 EL 21°	
	AL POS WRT NLT X = 1233.20 Y = 442.55	
	ORNT 352.08 MUNT 15.59 @ 149.32° RMS = 184.55	
	POS T/P A E 560273.75 S 5727645.65	

REMARKS

SIGNED _____

PJ
PROJECT LEADER

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ten
CLIENT REPRESENTATIVE

RACAL-SURVEY

DAILY LOG

VESSEL MV. CORAL J

4159

PROJECT LEADER P. TAREN

CLIENT AAP

DATE 5-5-85

PROJECT OMEO-2 RIG MOVE

TIME ZONE E.S.T. (GMT +10)

SYSTEM BASIS

TIME	NARRATIVE	INITIAL
1506	SAT PASS #10	
	SAT POS E 561126.76 S 5728687	20°
	AC WRT NET X = 952.17 Y = 988.53	
	ORN = 352.44 MUMT = 4.14 @ 156° RMS = 175.36	
	POS TP A E 560275.35 S 5727641.85	
1630	MADE SEVERAL ATTEMPTS TO RELEASE No 1 TRANSPONDER (141) - NO SUCCESS	
1640	SAT PASS #11	
	SAT POS E 560660.27 S 5728181.92	IEL 70°
	AC WRT NET X = 403.12 Y = 499.14	
	ORN = 352.55 MUMT = 3.85m @ 90.20° RMS = 166.96	
	POS T/PA E 560279.7 S 5727641.80	
2136	SAT PASS #12	
	SAT POS E 559695.77 S 5727430.89	67°
	AC WRT NET X = -672.66 Y = -103.06	
	ORN 352.21° MUMT 8.54m @ 115.54° RMS = 160.6	
	POS T/PA E 560286.88 S 5727638.06	
6/5/85		
0302	SAT PASS #13	
	SAT POS E 561357.51 S 5727552.73	25°
	AC WRT NET X = 1027.55 Y = -251.44	
	ORN 352.03° MUMT = 2.77m @ 55.71° RMS = 154.1	

REMARKS Pos T/PA E 560289.18 S 5727639.61

DUE TO ROUGH SEAS, 25-35 KT WINDS SHIP
ROLLING ACCESSIVELY CAUSING SATELLITES WITH GOOD
ELEVATION HAVING TOO FEW DOPPLERS OR
TOO HIGH RMS

SIGNED P. TAREN
PROJECT LEADER

SIGNED Key
CLIENT REPRESENTATIVE

RACAL-SURVEY

DAILY LOG

VESSEL MV CORAL 3

4160

PROJECT LEADER P. TALEN

CLIENT AAP

DATE 6/5/55

PROJECT OMEO 2 RIG MOVE

TIME ZONE EST (GMT + 10 hrs)

SYSTEM OASIS

TIME	NARRATIVE	INITIAL
05.00	MV CHRISTMASS CK ARRIVED ON LOCATION.	
04.50	SAT PASS #14 SAT POS E 561035.70 S 5727609.31 EL 55° AC WRT NET X = 748.56 Y = -104.79 ORN 352.1° MUNT 1.65 m @ 214.94° RMS = 148.22 POS T/P A E 560286.72 S 5727638.26	
05.40	RECEIVED TWO TRANSPONDERS CH 1 CODE AC15 1. S/N 351 3. S/N 775 CH 3 CODE AC1345 2 FOOD SUPPLY FROM XMAS CK.	
05.45	CHRISTMAS CREEK DEPARTS.	
1136	SAT PASS #15 - PASSES 1, 2 REJECTED SAT POS E 560728.86 S 5727995.86 EL 20 AC WRT NET X = 474.77 Y = 216.68 ORN 353.32° MUNT 39.79 m @ 92.84° RMS = 76.84 POS T/P A 560327.42 S 5727635.96	
22.03	SAT PASS #16 - PASSES 1+2 REJECTED SAT POS 12 561264.15 S 5727962.34 EL 59° AC WRT NET X = 866.40 Y = 278.16 ORN 353.55° MUNT 6.92 m @ 104.03° RMS 79.82 POS T/P A E 560334.62 S 5727634.23	

REMARKS

TOWFISH CABLE LENGTHENED FROM 5 M TO 8 M - ENTERED IN 'A' PARAMETERS AT 1700 HRS

SIGNED P. Talen PROJECT LEADER

SIGNED Key CLIENT REPRESENTATIVE

RACAL-SURVEY

DAILY LOG

VESSEL MU CORAL 3

4161

PROJECT LEADER P. TALEN

CLIENT AAP

DATE 7/5/85

PROJECT OMEO 2 AIG MOVE

TIME ZONE EST (GMT + 10 hrs)

SYSTEM OASIS

TIME	NARRATIVE	INITIAL
00.00	SAT PASS # 17 REJECTED 1.2	
	SAT POS E 561043.87 S 5727975.93	23°
	AC WRT NET X = 900.41 Y = 302.66	
	ORN 353.54 MUNT 10.89 @ 250.06°	RMS = 87.7
	POS T/P A E 560324.36 S 5727630.60	
07.40	SAT PASS # 16 REJECTED 1.2 18°	
	SAT POS E 561910.29 S 5727999.59	
	AC WRT NET X = 1553.59 Y = 294.61	
	ORN 354.10° MUNT = 2.33 @ 110.24	RMS 88.95
	POS T/P A E 560326.54 S 5727629.77	
0546	SAT PASS # 19	
	SAT POS E 561281.10 S 5728328.3	21°
	AC WRT NET X = 1017.31 Y = 631.86	
	ORN 354.17 MUNT = 1.02 @ 189.45	RMS 86.38
0900	SAT PASS # 20	
	SAT POS E 560893.26 S 5727557.56	29°
	AC WRT NET X = 623.4 Y = -210.54	
	ORN 354.26 MUNT = 6.88 @ 214.29	RMS = 87.58
	POS T/P A E 560321.92 S 5727634.02	

REMARKS

STILL MISSING SATELLITE PASSES IE. NOT BEING ACCEPTED BY PROGRAM DUE TO HIGH PASS RMS OR TOO FEW DOPPLERS BECAUSE OF ROUGH SEAS + HIGH WINDS

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CLIENT REPRESENTATIVE

RACAL-SURVEY

DAILY LOG

4162

VESSEL MV CORAL J
 PROJECT LEADER P. TAKEN
 DATE 7-5-85
 TIME ZONE EST (GMT-10)

CLIENT AAP
 PROJECT ONEO-2 RIG MOVE
 SYSTEM OASIS

TIME	NARRATIVE	INITIAL
1145	SAT PASS #21 0	
	SAT POS E 561890.7 S 5727708.82	40
	AC POS WRT NRS X = 1552.03 Y = -513.77	
	DRM: 354.13° MULTI: 1.21 D 319.93 RMS = 85.83	
	POSN TP A E 560321.15 S 5727634.95	
1215	CLIENT REP. N. M'GOWAN CONTACTED AQUITAINE BASE, REQUESTING PERMISSION TO SEEK SHELTER AS SEAS BECOMING TOO ROUGH TO OBTAIN GOOD ACOUSTIC RANGES AND SATELLITE PASSES.	
	AUTHORISED TO HEAD STEAM FOR WELSHPOOL	
1230	RECOVERED TOWFISH AND STEAMED FOR WELSHPOOL	
2230	ARRIVED AT WELSHPOOL FORT.	
2330	N. M'GOWAN, P. TAKEN, D. BELL ARRIVED FOSTER MOTEL	
	POSN TP A E 560321.15 S 5727634.95	
	TP B E 561798.05 S 5727775.49	
	TP C E 561020.19 S 5728431.78	

REMARKS

SIGNED 
 PROJECT LEADER

SIGNED 
 CLIENT REPRESENTATIVE

RACAL-SURVEY

DAILY LOG

VESSEL MV CORAL J

4163

PROJECT LEADER P. TALEN

CLIENT AAP

DATE 8/5/65

PROJECT OMEO 2 RIG MOVE

TIME ZONE EST (GMT + 10)

SYSTEM OASIS

TIME	NARRATIVE	INITIAL
0830	MEETING AT AQUITAINE BASE WITH S. MISSIUS & P. DOMEROD.	
0930	ARRIVED AT PORT WAITING FOR CREW & SUPPLIES FOR MV CORAL J	
1130	TESTED TRANSponder CH. 3 AND DEPARTED WELSHPOOL FOR LOCATION	
2018	ARRIVED ON LOCATION AND DEPLOYED TOWFISH - NET LOCATED	
2040	STARTED TRACKING SATELLITES	
2340	4 SATELLITES TRACKED WITH GOOD ELEVATIONS - HOWEVER DUE TO ROUGH SEAS SATELLITE RIMS TOO HIGH OR TOO FEW DOPPLARS.	

REMARKS
WHILE TIED ALONGSIDE MV "CHRISTMAS CREEK" AT WELSHPOOL PORT, MAGNETIC COMPASS ON MV CORAL J READ 2110°, COMPASS (MAGNETIC) ON MV "CHRISTMAS CREEK" READ 250°

SIGNED [Signature]
PROJECT LEADER

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CLIENT REPRESENTATIVE

RACAL-SURVEY

DAILY LOG

4164

VESSEL M. CORAL 3

PROJECT LEADER P. ALP

CLIENT 4AP

DATE 9 - 5 85

PROJECT OML 2 RIL MUSE

TIME ZONE EST (GMT +10)

SYSTEM OASIS

TIME	NARRATIVE	INITIAL
0006	RIG DARRID - M EPOCH ARRIVED ON LOCATION AND HOVE TO TO STAND BY FOR SEAS AND WIND TO ABATE.	
0020	PREPARING TO DEPLOY TRANSPONDER CH 3 TO GIVE BETTER TRACKING OVER LOCATION.	
0115	DROPPED TRANSPONDER CH. 3 S/N 275 CODE AC 234.	
0130	RESET COMPUTER AND STARTED COLLECTING RANGES FOR RELATIVE GEOMETRY.	
0645	UNABLE TO COLLECT SUFFICIENT RANGES FOR RELATIVE GEOMETRY WITH 4 TRANSPONDERS AND RIG INTENDING TO DROP ANCHOR DUE TO TOWFISH BOUNCING IN ROUGH SEAS.	
0730	STARTED COLLECTING FOR RELATIVE GEOMETRY USING TRANSPONDER CH 2, CH 3 & CH 6.	
	COMPLETED RELATIVE GEOMETRY	
1140	LEAST SQUARES SOLN. 1.	
	A (CH 2) .00 .00 62	
	B (CH 3) 1487.86 .00 62	
	C (CH 6) 846.13 1227.18 62	
	LEAST SQUARES SOLN 2	
	A .00 .00 62	
	B 1488.51 .00 62	
	C 847.24 1227.52 62	

REMARKS

SIGNED *PA* PROJECT LEADER

SIGNED *ten* CLIENT REPRESENTATIVE

RACAL-SURVEY

DAILY LOG

VESSEL NR GAAL J
 PROJECT LEADER P. TALEN
 DATE 9-5-85
 TIME ZONE EST (GMT+10)

4165

CLIENT AA
 PROJECT OMEO 2 RIG MOVE
 SYSTEM OASIS

TIME	NARRATIVE	INITIAL
1140	AV. L/S JOLN	
	A .00 .00 62	
	B 1488.19 .00 62	
	C 846.64 1227.35 62.	
	USING TP POSITIONS FROM REPOSITIONING PHASE	
	POSN TP 2 E 560321.15 S 5727634.95	
	POSN TP 6 E 561798.05 S 5727775.49	
	NEW POSITIONS OF TRANSPONDERS	MOVEMENT
	A TP 2 E 560317.42 S 5727634.6	3.74
	B TP 3 E 561274.72 S 5726495.19	
	C TP 6 E 561801.78 S 5727775.64	3.74
	ORIENTATION = 050° ST. ERROR 5.3	
	D TP 8 E 561020.19 S 5728431.78	
1300	DEPLOYED LOCATION BUOY	
1310	1 st FIX E 561814 S 5726636	
	OFF. FROM INTENDED 38 M @ 250°	
	2 nd FIX E 561819 S 5726606	
	53 M @ 216°	

REMARKS

TOWFISH TOW-LENGTH CABLE LENGTHENED
 TO 13 M.

SIGNED

P. Talen
 PROJECT LEADER

SIGNED

[Signature]
 CLIENT REPRESENTATIVE

RACAL-SURVEY

DAILY LOG

VESSEL MV CORAL J

4166

PROJECT LEADER P. TALEN

CLIENT AAP

DATE 9-5-85

PROJECT OMFO-2 RIG MOVE

TIME ZONE EST (GMT +10)

SYSTEM GASIS

TIME	NARRATIVE	INITIAL
1428	DEPLOYED NO 3 ANCHOR BUOY INTENDED E 560810 S 572665	
	1 st FIX E 560798 S 5726625 OFF 35 @ 200°	
	2 nd FIX E 560760 560760 S 5726648 OFF 31 @ 252°	
1510	DEPLOYED NO 7 ANCHOR BUOY INTENDED E 562890 S 5726641	
	1 st FIX E 562913 S 5726596 OFF 50 @ 153°	
1520	ATTEMPTED 2 nd FIX - LOST SIGNALS DUE TO ROUGH WEATHER	
1443	DEPLOYED NO 2 ANCHOR BUOY INTENDED E 561337 S 5725744	
	1 st FIX E 561203 S 5725605 OFF 143M @ 224°	
1630	DEPLOYED NO. 6 ANCHOR BUOY INTENDED E 562363 S 5727554	
	1 st FIX E 562441 S 5727588 OFF 85M @ 66°	
1730	ATTEMPTED TO PICK UP MARKER BUOY WEATHER TOO ROUGH - STANDING BY FOR RIG	

REMARKS

ROUGH WEATHER 25-30 KTS, 2M SWELL

SIGNED PJ
PROJECT LEADER

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CLIENT REPRESENTATIVE

RACAL-SURVEY

DAILY LOG

VESSEL MV CORAL J

4167

PROJECT LEADER P. TAEN

CLIENT A.A.P.

DATE 10-5-85

PROJECT M.O-2 RIG MOUF

TIME ZONE EST (GMT-10)

SYSTEM OASIS

TIME	NARRATIVE	INITIAL
0726	FIX TAKEN ON ANCHOR BUOY #3 E 560927 S 572667 OFFSET 119 M @ 81° FROM INTENDED	
0840	FIX TAKEN ON ANCHOR BUOY #2 E 561344 S 5725677 OFFSET 68 M @ 169° FROM INTENDED	
0750	LOCATION BUOY FOUND TO HAVE MOVED 500M TO NE OF LOCATION	
0755	FIX TAKEN ON ANCHOR BUOY #7 E 562976 S 5726684 OFFSET 96 M @ 64° FROM INTENDED	
0816	FIX TAKEN ON ANCHOR BUOY #6 E 562530 S 5727709 OFFSET 227 M @ 57° FROM INTENDED	
0850	RECOVERED MARKER BUOY	
1010	MARKER BUOY DEPLOYED (LOCATION)	
1015	FIX TAKEN ON MARKER BUOY E 561881 S 5726693 OFFSET 54 M @ 35° FROM INTENDED	
1155	ANCHOR # 7 DROPPED	
1313	ANCHOR # 3 DROPPED	
1555	ANCHOR # 2 DROPPED	
1630	ANCHOR # 6 DROPPED	
1720	ANCHOR # 4 DROPPED	

REMARKS

SIGNED PJ
PROJECT LEADER

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CLIENT REPRESENTATIVE

RACAL-SURVEY

DAILY LOG

VESSEL M.V. CORAL J

4168

PROJECT LEADER P. TALEN

CLIENT AAP.

DATE 16 - 5 - 85

PROJECT OMEO-2 RIG MOVE

TIME ZONE EST (GMT +10)

SYSTEM OASIS.

TIME	NARRATIVE	INITIAL
1720	ANCHOR # 4 DROPPED	
0013	ANCHOR # 5 DROPPED	
0048	ANCHOR # 8 DROPPED	
0127	ANCHOR # 1 DROPPED	
0138	FIX TAKEN ON RIG	
	F 561800. S 5726609 OFFSET 110 M @ 51' TO DRILLSTEM	
	DRILLSTEM POSITION E 561843, S 5726669	
	46 M @ 065° FROM INTENDED	
0200	STANDING BY RIG - WAITING FOR BALLASTING DOWN AND ANCHOR TENSIONING.	
0900	STARTED PICKING UP ANCHOR MARKER BUOYS	
0949	PICKED UP # 2 # 3 & # 7 BUOYS	
0930	FINISHED BALLASTING DOWN	
1035	COMPLETED TRANSIT FIX ON RIG.	
	FIX # 1 561752 572652 (NW)	
	# 2 561754 5726632 (WNW)	
	# 3 561764 5726569 (WSW)	
	# 4 561892 5726508 (SW)	
	# 5 561962 5726525 (SE)	
	# 6 561976 5726680 (ESE)	
	# 7 561960 5726739 (ENE)	
	# 8 561829 5726855 (NE)	
	NW CORNER 561 842 5726678	
	SE CORNER 561 913 5726633	

REMARKS

CENTRE OF RIG.
~~DRILLSTEM~~ POSN. E 561877 N 5726655
 SW CORNER 561 849 5726581
 NE CORNER 561 890 5726703
 CENTRE POSN E 561869 N 5726642
 MEAN DRILLSTEM POSN E 561873 S 5726649
 OFFSET FROM INTENDED 22 M @ 93°

SIGNED  PROJECT LEADER

SIGNED  CLIENT REPRESENTATIVE

RACAL-SURVEY

DAILY LOG

VESSEL MV CORAL J

4169

PROJECT LEADER P. TAKEN

CLIENT AAP.

DATE 11-5-85

PROJECT OMED-2 R & MOVE

TIME ZONE FST (GMT+10)

SYSTEM OASIS

TIME	NARRATIVE	INITIAL
1151	FINAL FIX - OFFSET USING RADAR	
	OFFSET FROM RIG BOW-CENTRE 98 M @ 245°	
	DATUM POSN 561756 5726605	
	OFFSET 128 M @ OGS TO DRILLSTEM	
	FINAL DRILLSTEM POSN E 561872 55726659	
	OFFSET DRILLSTEM FROM INTENDED 23 M @ 067°	
1215	RELEASED BY RIG.	
1245	RECOVERED TRANSPONDER # 8	
0310	RECOVERED TRANSPONDER # 2	
0330	RECOVERED TRANSPONDER # 6	
0345	RECOVERED BAR ANCHOR MARKER BODY # 6	
0410	ATTEMPTED FURTHER RECOVERYS ON TRANSPONDER # 1	
	- NO SUCCESS	
0440	RECOVERED TRANSPONDER # 3	
0442	DEPARTED OMED-2 SITE	
2340	ARRIVED WELSHPOOL	
DA	12-5-85	
0030	N. McLOWAN, P. TAKEN & D. BELL ARRIVED	
	TODRA LODGE.	

REMARKS

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CLIENT REPRESENTATIVE

RACAL-SURVEY

DAILY LOG

VESSEL MV CORAL J
 PROJECT LEADER P. TALEN
 DATE 12-5-85
 TIME ZONE EST (GMT + 10)

4170

CLIENT AAAP
 PROJECT OMEO-2 AIG MUSE
 SYSTEM OASIS.

TIME	NARRATIVE	INITIAL
0930	STARTED DERIGGING OF MV. CORAL J	
1130	COMPLETED DE MOBILISATION OF SURVEY BOAT	
1430	N. M'GOWAN & P. TALEN DEPART WELSHPOOL	

REMARKS

SIGNED [Signature]
 PROJECT LEADER

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 CLIENT REPRESENTATIVE