

BASS STRAIT OIL COMPANY LTD



WELL COMPLETION REPORT (Basic Data) Volume 1 of 1

MOBY-1

February 2005

BASS STRAIT OIL COMPANY LTD



MOBY-1

WELL COMPLETION REPORT

VOLUME 1 OF 1

(BASIC DATA)

VIC/P47
GIPPSLAND BASIN

OFFSHORE
VICTORIA

Date: February 2005
Compiled by: R. Fisher
Reviewed by: Ian Reid

Controlled Copy No: _____

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Copy No.	Recipient
001	Bass Strait Oil Company Ltd: Ian Reid – General Manager, Exploration (Melbourne, Vic)
002	Eagle Bay Resources NL: Tony Rechner – Director (Perth, WA)
003	Moby Oil & Gas Limited: Geoffrey Albers – Chairman (Melbourne, Vic)
004	Labrador Petro-Management Pty Ltd: Tom Brand -Project Advisor (Perth, WA)
005	Victorian Department of Primary Industries; Minerals & Petroleum Division: Kourosh Mehin - Manager, Petroleum Resources (Melbourne, Vic)
006	GeoScience Australia: Trevor Powell – Chief Petroleum & Marine Division (Canberra, ACT)

1. Overview

1.1 Well Data Summary

Well Name	Moby-1
Operator	Bass Strait Oil Company Ltd
Equity Partners	Bass Strait Oil Company Ltd. (40%) Eagle Bay Resources NL (25%) Moby Oil & Gas Limited (35%)
Permit	VIC/P47
Basin	Gippsland Basin
Type of Well	Exploration
Well Status	Plugged & Abandoned as New Field Gas Discovery
Surface Well Location	Easting 632316.41m E Northing 5,789,884.86m N Latitude 38° 01' 44.25" S Longitude 148° 30' 27.40" E Datum AGD 66
Map Reference	SJ 55 1:1,000,000 Melbourne Map Sheet; Graticular Block 1783
Objectives	<i>Primary</i> Gurnard Formation <i>Secondary</i> Barracouta Formation
Total Depth	mRT 660mRT mSS 638.5mSS
Elevations	Water Depth 53m (MSL) Rotary Table +21.5m
Rig on Contract	5 th October 2004; 02:45 hours
Spud Date	7 th October 2004; 16:45 hours
Well Reach TD	11 th October 2004; 20:30 hours
Rig Released	17 th October 2004; 13:00 hours

1.2 Personnel and Contractors Summary

OFFSHORE PERSONNEL	
Drilling Supervisors	Chris Wilson/John Wrenn
Drilling Engineer	James Gilmour
Geologists	Geoff Geary/Don MacFarlan

ONSHORE PERSONNEL	
Project Advisor (Perth)	Tom Brand
Drilling Superintendent (Perth)	Colin Allport
Drilling Engineer (Perth)	Werner Janisch
General Manager, Exploration – BAS (Melbourne)	Ian Reid
Operations Geologist (Perth)	Robert Fisher
HSE Co-ordinator (Perth)	Jim Embury
Shorebase Materials and Logistics Coordinator	Alex Edwards

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- Nigel Warman
Mudlogging	Halliburton/Sperry Sun – Mario Shelford
Wireline/VSP	BakerAtlas – David Thorne
Tracer/Fluid Samples	Petrotech Knowledge– Robyn Tamke
Cementing	Dowell Schlumberger – Leen Vlott
Drill Bits	Smith Bits – Doug Ferguson
Drilling Tools	Smith International – Colin Hankinson
Casing Handling	Weatherford – Aaron Sinnott
Wellhead	Cameron – Vince Marino
Anchor Handling Supply Vessels	Swire Pacific-“Pacific Wrangler” – Sam Pullan Farstad-“Far Grip” – Dick Hall
Helicopters/Type	Bristows/S-76 - Paul Giddon
Fixed Wing Services	Bristows - Paul Giddon
ROV	FUGRO - Norman Mackay

SERVICE	CONTRACTOR
Down Hole Rental Tools	Tasman Oiltools – Ross Luck
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 – John Thompson
Weather Reporting	Bureau of Meteorology – David Bebee
Communications	Diamond Offshore General Company

LOGISTICS	
Project Advisor	Labrador Petro-Management – Tom Brand
Supply Base Location	Port Melbourne, Victoria – Wharf 27 Eden, NSW
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 TAP Oil Tawatawa-1 location off the east coast of New Zealand and towed across the Tasman Sea by two AHSV’s (“Far Grip” & “Pacific Wrangler”). Moby-1 operations commenced at 02:45 Hrs 5th October 2004 when the first anchor was dropped at the Moby-1 location. Anchor handling operations were delayed by bad weather, while additional delays were caused by having to re-run a number of anchors. Positioning the rig on location was completed by 05:30 Hrs 7th October 2004 at which time the rig was ballasted down to drilling draft. The final location for Moby-1 was confirmed as being 2.4m from the proposed location on a bearing of 270.28° True. The final fix for Moby-1 was:

Latitude: 38° 01' 44.25" S
 Longitude: 148° 30' 27.40" E
 Easting: 632, 316.41m
 Northing: 5, 789, 884.86m
 DATUM: AGD 66.

The temporary guide base (TGB) was run and landed at 74.5mMD RT. Made up 914mm (36") BHA and ran in hole with ROV assisting through TGB and tagged seafloor at 74.5m corrected to Mean Sea Level (MSL). The water depth at Mean Sea Level was recorded as 53.0m, with a drill floor elevation of 21.5m. The well was spudded at 16:45 Hrs 7th October 2004 with a 914mm (36") hole drilled from seafloor (74.5mMD RT) to a depth of 101mMD RT, pumping 50 bbl gel sweeps every 9m. Ran 762mm (30") casing and cemented with 758.8 sacks (160.8 bbl), cement slurry at 15.8 ppg.

Made up 445mm (17 ½") BHA and installed guide ropes to BHA and guide lines. Ran in hole and tagged cement at 96.7mMD RT. Drilled cement and casing shoe from 96.7mMD RT to 98mMD RT and continued drilling to 325mMD RT, pumping 40 bbl guar gum sweeps every 15m and 50 bbl gel sweeps before very connection. Pumped 100 bbl hi-vis sweep at 1100gpm and conducted wiper trip to 762mm (30") casing shoe. Took weight at 315mMD RT and reamed back to 325mMD RT. Circulated bottoms up at 1100 gpm and displaced hole to 350 bbl hi-vis mud. Dropped single shot survey tool and pulled out of hole to 203mMD RT. Recovered survey tool and continued pulling out of hole, jetting 762mm (30") housing on the way out of hole.

Ran 340mm (13 ¾") casing to 321.8mMD RT and cemented with 140 bbls (295 sacks) of 12.5 ppg Class G Lead cement followed by 71 bbls (335 sacks) of 15.8 ppg Class G Tail cement. Displaced cement with 116 bbls of seawater. Bumped plugs and pressure tested casing to 2000 psi. Observed returns to seabed throughout cementing. Ran BOP's while testing choke and kill lines to 300 psi for 5 minutes and 3000 psi for 10 minutes and marine riser. Landed BOP's and pressure tested wellhead connection to 300 psi for 5 minutes and 3000 psi for 10 minutes.

Made up 311mm (12 ¼") bit and ran in hole. Washed down from 286mMD RT and tagged top of cement at 295.5mMD RT. Drilled plugs, cement and shoe track and cleaned rat hole to 325mMD RT. Drilled ahead in 311mm (12 ¼") hole from 325m to 328mMD RT. Displaced well to 10 ppg KCL/Polymer mud system, displacing choke and kill lines. Pressure tested lines to 1000 psi and performed FIT to 1.7 SG (14.16 ppg), OK. Pulled out of hole laying down 311mm (12 ¼") BHA.

Made up 216mm (8 ½") BHA and ran in hole to 328mMD RT and drilled ahead to 660mMD RT (TD), taking Anderdrift survey every connection. Circulated hole clean, dropped multi-shot and pulled out of hole from 660m to 248mMD RT, working tight spots between 612m and 560mMD RT. Finished pulling out of hole and retrieved EMS tool.

Rigged up BakerAtlas for running wireline logs and ran the following logs; RUN#1: DLL-MLL-MAC-ZDL-CNL-DSL-TTRM over the interval 659-321.5m with GR-MAC through casing to 75mMD RT; RUN#2: RCI-GR over the interval 558.3-612.8m for pressures and samples; RUN#3: SLR-GR (VSP survey) over the interval 659-80m and RUN#4: SWC-GR over the interval 651.5-538m; shot 25 cores, recovered 25 cores; rigged down BakerAtlas.

Commenced plug and abandonment operations at 22:30 Hrs 13th October 2004. Picked up and ran in hole with 73mm (2 7/8") tubing cement stinger on 127mm (5") drill pipe to 650mMD RT and pumped 42.8 bbls of 15.8 ppg Class G cement slurry setting Plug#1 from 660mMD RT to 505mMD RT. Pulled out of hole to 370mMD RT and pumped 43 bbls of 15.8 ppg Class G cement slurry setting Plug#2 from 370mMD RT to 270mMD RT. Ran in hole with 127mm (5") open ended drill pipe and tagged top of cement Plug#2 at 259mMD RT. Pressure tested casing against lower annular to 500 psi, OK. Picked up 340mm (13 3/8") cement retainer and ran in hole to 160mMD RT and set same. Pumped 30 bbls of 15.8 ppg Class G cement slurry, setting cement Plug#3 from 160m to 100mMD RT.

Picked up wellhead jetting tool and wear bushing retrieval tool and ran in hole to 74m while jetting stack and wellhead. Landed out wear bushing retrieval tool and pulled out of hole. Pulled riser and BOP's and secured same. Picked up 508mm x 762mm (20" x 30") spear and cutting assembly and ran in hole stabbing into 18 3/4" wellhead and cut 508mm (20") casing at 77.39mMD RT and pulled out of hole with casing cut-off stub and housing. Re-dressed spear and RIH, stabbing into 762mm (30") housing, cutting 762mm (30") casing at 76.84mMD RT.

Commenced anchor handling operations at 18:00 Hrs 16th October 2004. Last anchor racked at 13:00 Hrs 17th October 2004 and the rig released to Santos. Total time on Moby-1 location was 12.427 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	101	79.5	26.5
17 1/2"	445	325	303.5	224
12 1/4"	311	328	306.5	3
8 1/2"	216	660	638.5	335

Table 2: Casing Summary

Casing Size		Grade	Weight (ppf)	LOT (sg)	Cement	Depth	
(in)	(mm)					mMD RT	mTVD SS
20" x 30"	508 x 762				Seabed	97.5	76.45
13 3/8"	340	K-55/L-80	68	1.7	Seabed	321.76	300.26

1.5 Well Overview

1.5.1 Drilling

Moby-1 reached total depth (TD) at 660mMD RT (-638.5mTVD SS). The main reason for allocated trouble time was a result of waiting on weather, because Bass Strait is often prone to bad weather. Another major source of trouble time was

having to re-run anchors after coming on location to correct the rig heading in order to allow for optimum communications.

1.6 *Detailed Drilling Performance Review*

1.6.1 Mobilise Rig to Moby-1 Location

The rig was Mobilised from Tawatawa-1 location off the east coast of New Zealand and towed across the Tasman Sea by two AHSVs (Far Grip & Pacific Wrangler).

1.6.2 Run Anchors

The time breakdown for running anchors was as follows:

Actual time:	56.25 hours	Trouble time:	28.5 hours
Productive Time:	27.75 hours	Technical Limit:	22 hours
Budgeted time:	22 hours	Over Budget:	155.7 %

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

The time breakdown for drilling the 26" x 36" hole was as follows:

Actual time:	9 hours	Trouble time:	1.75 hours
Productive Time:	7.25 hours	Technical Limit:	5.75 hours
Budgeted time:	5.75 hours	Over Budget:	56.5 %

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

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

Actual time:	7.75 hours	Trouble time:	0 hours,
Productive Time:	7.75 hours	Technical Limit:	10.5 hours
Budgeted time:	10.5 hours	Under Budget:	26.2 %

1.6.5 Drill 445mm (17 ½") Hole Section

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

Actual time:	8.25 hours	Trouble time:	1.5 hours
Productive Time:	6.75 hours	Technical Limit:	12.25 hours
Budgeted time:	12.25 hours	Under Budget:	32.7 %

1.6.6 Run and Cement 340mm (13 ¾") Casing

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

Actual time:	20 hours	Trouble time:	1.25 hours
Productive Time:	18.75 hours	Technical Limit:	11.75 hours
Budgeted time:	11.75 hours	Over Budget:	70.2 %

1.6.7 Run BOP and Riser

Time breakdown for running and testing BOPs and running the seal bore protector are as follows:

Actual time:	23.5 hours	Trouble time:	0 hours
Productive Time:	23.5 hours	Technical Limit:	24 hours
Budgeted time:	24 hours	Under Budget:	2.1 %

1.6.8 Drill 311mm (12 ¼") Shoe Track and 216mm (8 ½") Hole Section

The time breakdown of the drilling of the 311mm (12 ¼") shoe track and 216mm (8 ½") hole is as follows:

Actual time:	31.5 hours	Trouble time:	0 hours
Productive Time:	31.5 hours	Technical Limit:	38.5 hours
Budgeted time:	38.5 hours	Under Budget:	18.2 %

1.6.9 TD Wireline Logging of 216mm (8 ½") Hole Section

The time breakdown of the logging of the 216mm (8 ½") hole is as follows (*note technical limit and budgeted time based on dry-hole logging programme whereas Moby-1 was logged as a success case*):

Actual time:	45.5 hours	Trouble time:	0.5 hours
Productive Time:	45 hours	Technical Limit:	24 hours
Budgeted time:	24 hours	Over (Under) Budget:	89.6 %

1.6.10 Well Abandonment

The plug and abandonment plugs were set using 73mm (2 7/8") tubing stinger and summarised in Table 3.

Table 3: Plug and Abandonment Cement Plug Summary

Plug No.	Amount Pumped [bbl]	From (mMD RT)	To (mMD RT)	Tagged (mMD RT)
1	42.8	660	505	-
2	43	370	270	259
3	30	160	100	-

A time breakdown for the abandonment operations is as follows:

Actual time:	67.5 hours	Trouble time:	17.25 hours
Productive Time:	50.25 hours	Technical Limit:	31.25 hours
Budgeted time:	31.25 hours	Over Budget:	116 %

1.6.11 Pull Anchors

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

Actual time:	19 hours	Trouble time:	0.75 hours
Productive Time:	18.25 hours	Technical Limit:	17.5 hours
Budgeted time:	17.5 hours	Over Budget:	8.6 %

The rig was released at 13:00 hours on the 17th October 2004.

The Time versus Depth curve forms Figure 2 of this report.

2. Geological Report

2.1 Formation Sampling

2.1.1 Ditch Cuttings

One ~500gm bulk set of lightly washed and air dried cuttings was collected at 10m, 5m and 3m intervals depending upon the stratigraphic section and rate of penetration (ROP) from 325m to 660mMD RT in Moby-1 and retained in cloth bags. These samples are a spare set and are in storage at Kestrel Information Management Pty Ltd, 578-590, Somerville Road, Sunshine, Vic 3020.

Four sets of washed and air dried sample splits each of 200gm were collected at 10m, 5m or 3m intervals depending upon the stratigraphic section and rate of penetration (ROP) from 325m to 660mMD RT in Moby-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 was collected in “samplex” trays which are also stored at Kestrel Information Management, Victoria.

The cuttings sampling interval and number of samples collected for Moby-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	325	328	3	1
216	328	330	2	1
	330	540	10	21
	540	550	5	2
	550	622	3	24
	622	630	8	1
	630	660	10	3
TOTAL				53

2.1.2 Conventional Cores

No conventional cores were cut in Moby-1.

2.1.3 Sidewall Cores (SWC)

One percussion sidewall coring run was made with the BakerAtlas SWC coring gun over the gross interval 651.5-538.0mMD RT in Moby-1. A 25 core programme was planned, the primary purpose of which was to acquire cores for reservoir evaluation in the primary reservoir and for biostratigraphic evaluation. A total of 25 cores were recovered from the 25

attempted (100%). A summary of SWC depths and recovery are included below in Table 5.

Table 5: Percussion Sidewall Core Depths

SWC NO.	DEPTH (mMD RT)	Predicted Lithology	REC (cm)	Actual Lithology
1	651.50	sandstone	4.2	sandstone
2	621.00	sandstone	3.5	sandstone
3	605.00	sandstone	3.5	sandstone
4	597.50	sandstone	3.5	sandstone
5	590.00	sandstone	3.5	sandstone
6	588.00	sandstone	5.0	sandstone
7	586.00	sandstone	4.3	sandstone
8	585.00	sandstone	4.4	sandstone
9	584.00	sandstone	3.2	sandstone
10	580.00	sandstone	3.5	siltstone
11	575.70	claystone	4.8	sandstone
12	574.00	claystone	3.5	siltstone
13	572.00	sandstone	4.0	sandstone
14	571.00	sandstone	4.2	siltstone
15	569.00	sandstone	3.8	sandstone
16	568.50	sandstone	3.6	sandstone
17	567.30	claystone	3.0	sandstone
18	566.00	claystone	5.0	sandstone
19	563.00	sandstone	3.5	sandstone
20	561.30	sandstone	4.1	siltstone
21	560.00	sandstone	5.0	sandstone
22	558.50	sandstone	5.0	sandstone
23	555.90	claystone	4.5	claystone
24	547.00	calcarenite	4.2	calcilutite
25	538.00	calcarenite	5.0	calcilutite

The SWC descriptions and photographs are included herein as Appendices 2 and 3 respectively, while a core analysis report is included as Appendix 4.

2.1.4 Rotary Sidewall Cores

No rotary sidewall cores were acquired in Moby-1.

2.2 Surveys, Logging and Testing Services

2.2.1 Directional Surveys

One Electronic Multi Shot survey was conducted. The resulting final definitive survey data report is included in Section “3.5 Well Trajectory”.

2.2.2 Mudlogging

Halliburton (Sperry-Sun) Drilling Services provided mudlogging services for the drilling of Moby-1 from spud to total depth at 660mMD RT using a crew of two (2) data engineers, two (2) mudloggers and a technician to install additional H₂S sensors. A fully pressurised and computerised Surface Data Logging Unit was maintained throughout the drilling and wireline log evaluation phase of Moby-1. A fully computerised data acquisition service operated down to the 340mm (13 $\frac{3}{8}$ ") casing shoe at 325mMD RT and a fully computerised mudlogging and data acquisition service operated for the 216mm (8 $\frac{1}{2}$ ") hole section (i.e. from 325m to total depth at 660mMD RT).

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 Halliburton End of Well Report (Appendix 9). The Formation Evaluation Log (mudlog) displays the rate of penetration (ROP), total gas, chromatographic analyses and wellsite interpreted lithologies. The Formation Evaluation Log, Drilling Log, Pressure Log and Gas Ratio 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, H₂S and CO₂ detection.
- **Data Engineers** – calculate and monitor the Equivalent Circulating Density (ECD), the drilling exponent, formation pore pressure and cuttings lag time and depth.

Sampling and Analysis

- The Halliburton mudloggers organised the collection, bagging and dispatch of ditch cuttings as defined in Section 4.5 and 4.6 (Appendix 9) accompanied by lithological and microscopic examination and;
- Calcimetry measurements on ditch cuttings as required and;
- Isotube gas samples (2 collected) and;
- Drilling mud sample collection as required for geochemistry

2.2.3 Lithological Logging

Cuttings were described by the Wellsite Geologists from 325m to 660mMD RT in Moby-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 325m to 660mMD RT throughout the 216mm (8 ½") and 216mm (8 ½") hole section, the results of which are included herein as Appendix 9. Trace to minor amounts of total gas consisting entirely of methane (C₁) was recorded upon commencement of first drilling returns in the 311mm (12 ¼") hole section below 325mMD RT and which continued in the 216mm (8 ½") hole section. Trace amounts of ethane (C₂), pentane (C₃), isobutene (iC₄) and n-butane (nC₄) was recorded below approximately 468mMD RT. Background gas levels increased slightly below 515mMD RT, increasing further to low to moderate levels of methane (C₁) and ethane (C₂) and with continuing trace C₃ to C₅ below 556mMD RT. The maximum total gas recorded was 1.64% at 570mMD RT, consisting of 18,184ppm C₁, 178ppm C₂, 23ppm C₃, 6ppm iC₄, 4ppm nC₄ and 5ppm iC₅ and 3ppm nC₅. Background levels remained moderately uniform to 587mMD RT, decreasing progressively below this depth to TD. Two isotube gas samples were collected during the period of slightly elevated gas readings between 556m and 587mMD RT.

Average ditch gas readings recorded throughout the drilling of Moby-1 are summarised below in Table 6.

Table 6: Summary of Average Ditch Gas Readings Recorded in Moby-1

Depth Range (mMD RT)	Total Gas (%)	Methane (C ₁) ppm	Ethane (C ₂) ppm	Propane (C ₃) ppm	Iso- Butane (i- C ₄) ppm	Normal- Butane (n-C ₄) ppm	Iso- Pentane (i-C ₅) ppm	Normal Pentane (n-C ₅) ppm
325-490	0.09	1026	6	3	1	1	0	0
490-555	0.31	3278	24	4	1	1	1	2
555-583	0.85	8741	74	8	1	1	1	1
583-600	0.32	3588	26	4	1	0	0	0
600-660	0.11	1460	8	3	1	0	1	1

Isotube Gas samples

Two (2) Isotube gas samples were collected in Moby-1. These samples were collected at the depths listed below in Table 7 however at time of writing this report no analyses have been performed. These samples are currently being held by Bass Strait Oil Company Ltd if further compositional and carbon isotopic analysis is required.

Table 7: Isotube Gas Sample Depths

Isotube#	Depth (mMD RT)
Tube 1	564 m
Tube 2	570 m

Sample Shows

(i) Cuttings: sandstone over the gross interval 562–574mMD RT exhibited 5–20% dull – moderately bright yellow fluorescence, with a slow to moderately fast blue-white cut and solid blue-white ring residue. At 568–571mMD RT, fluorescence increased to 60% dull to moderately bright yellow fluorescence, with an instantaneous blue-white cut and a solid blue-white residue. Nil to trace fluorescence only occurred below 574mMD RT.

(ii) Sidewall Cores: a total of eleven (11) of the twenty five (25) sidewall cores collected exhibited fluorescence attributable to hydrocarbons. These are listed below in Table 8.

Table 8: Hydrocarbon Shows in Sidewall Cores

SWC NO.	DEPTH (mRT)	Actual Lithology	Hydrocarbon Show
1	651.50	sandstone	nil
2	621.00	sandstone	nil
3	605.00	sandstone	nil
4	597.50	sandstone	nil
5	590.00	sandstone	nil
6	588.00	sandstone	nil
7	586.00	sandstone	Fair, even yellowish-white fluorescence, fast bluish-white blooming cut. Solid yellowish-white residual ring
8	585.00	sandstone	Nil
9	584.00		Fair, patch pale gold fluorescence, rapid yellowish- white streaming cut Solid bluish-white residual ring
10	580.00	siltstone	Nil
11	575.70	sandstone	nil
12	574.00	siltstone	nil
13	572.00	sandstone	Patchy pale yellow fluorescence, rapid bluish-white blooming cut, faint, patchy yellowish-white residual ring
14	571.00	siltstone	Even, fair pale yellow fluorescence, Slow, poor bluish-white cut, faint, patchy yellowish-white residual ring
15	569.00	sandstone	Patchy, bright pale yellow fluorescence, Slow, bluish-white blooming cut, faint, patchy yellowish-white residual ring
16	568.50	sandstone	Patchy, pale yellow sample fluorescence, slow, bluish-white streaming cut, bright, solid yellowish-white residual ring.
17	567.30	sandstone	Patchy pale yellow fluorescence, slow, bluish-white blooming cut, faint, solid yellowish-white residual ring.
18	566.00	sandstone	Dull to fair, even, pale yellow fluorescence, slow, bluish-white streaming cut, fair, patchy yellowish-white residual ring
19	563.00	sandstone	Dull, even pale yellow fluorescence, rapid bluish-white streaming cut, poor, pale yellow residual ring.
20	561.30	siltstone	nil
21	560.00	sandstone	Faint, patchy pale yellow fluorescence, slow, very poor bluish-white fluorescence, poor, pale yellow residual ring.
22	558.50	sandstone	nil
23	555.90	claystone	5-10% patchy dull pale yellow direct fluorescence. Solvent fluorescence not checked
24	547.00	calcilutite	nil
25	538.00	calcilutite	nil

2.2.5 Measurement and Logging While Drilling (MWD/LWD)

No MWD/LWD was run in Moby-1.

2.2.6 Wireline Logging

Wireline services were provided by BakerAtlas on Moby-1 and full details of their operation are recorded in their End of Well Report included herein as Appendix 5.

One open hole logging suite (Suite 1) was recorded in Moby-1. Suite-1 was recorded across the 311mm (12 ¼") and 216mm (8 ½") open hole sections and consisted of four (4) attempted logging runs.

All wireline operations are briefly summarized in Table 9 and more detailed reports are included herein as Appendices 6 and 7. Furthermore, a summary of wireline log prints/image logs is included as Table 10.

Well Completion Report (Basic Data)- Moby-1

Table 9: Summary of Wireline Logging Runs

Suite/Run	Wireline Log	Interval mMD RT	Last Circulation Time (Hours)	Circulation Stopped	Time Logger on Bottom	Max. Recorded Temp (°C) @ mTVDSS (corrected to top of tool string)
1/1	DLL-MLL-MAC-ZDL-CN- GR-TTRM	659-321.5m; GR- MAC to 75m	1.33	11 th October 2004; 21:14 Hrs	12 th October 2004; 05:45 Hrs	42.7 @ 584.8
1/2	RCI-GR (Pressure & Samples)	558.3-612.8	1.33	11 th October 2004; 21:14 Hrs	12 th October 2004; 20:26 Hrs	44.4 @ 573.9
1/3	SLR-GR	659-80m	1.33	11 th October 2004; 21:14 Hrs	13 th October 2004; 14:11 Hrs	45.0 @ 633.2
1/4	SWC-GR	651.5-538m	1.33	11 th October 2004; 21:14 Hrs	13 th October 2004; 20:38 Hrs	NR

Table 10: Summary of Wireline Log Prints

Suite/Run No.	Log Print	Scale	Depth Interval (mMD RT)
1/1	DLL-MLL-MAC-GR-TTRM (Resistivity-Sonic)	1:500	659-321.5 (GR-MAC to 75m)
1/1	DLL-MLL-MAC-GR-TTRM Resistivity-Sonic)	1:200	659-321.5 (GR-MAC to 75m)
1/1	ZDL-CN-GR (Nuclear)	1:500	659-321.5
1/1	ZDL-CN-GR (Nuclear)	1:200	659-321.5
1/1	SPECTRALOG-TTRM	1:500	659-321.5
1/1	SPECTRALOG-TTRM	1:200	659-321.5
1/2	RCI-GR-TTRM (Formation pre-test pressures and sampling)	1:200	613-558.5
1/1	SEISMIC-GR CORRELATION	1:200	598-575
1/1	MAC Waveform Processing	1:500	659-75

A digital data set of wireline log data in DLIS format and PDF images of each of the wireline logs was distributed on CD ROM under separate cover. A CD ROM of the VSP data was also distributed separately.

2.2.7 Borehole Seismic

BakerAtlas conducted an open hole, zero-offset vertical seismic profile (VSP) in Moby-1 with the SLR tool configured with a single geophone. Air supply for this survey was rig air.

The survey was acquired at total depth in the 216mm (8 ½") hole section. Data was acquired at 57 levels with a 10 metre spacing from 650mMD RT to 90mMD RT. Three (3) checkshot levels were also recorded whilst running in the hole. At least 3 good repeatable shots were recorded at each VSP level, although some levels required additional shots because of noise. Total stacked levels acquired was 60.

A sleeved gun-array with 4 x guns was deployed as a rig source using the Rig crane, with an azimuth of 193.7° from the rig. The offset of guns was fixed at 46.3m from the well head. The guns were submerged from a buoy to 5 meters below water surface. A single hydrophone was deployed 2 meters below the gun array at 7m below the water surface.

VS Fusion processed the VSP and the results are included as Appendix 13 herein.

2.2.8 Wireline Testing

All the required wireline testing data in Moby-1 were acquired in one run of the *BakerAtlas* Reservoir Characterization Instrument (RCI). The tool was configured with a single large diameter probe, a Pump-out Module (PO), and Near Infra-red Detector (NIR).

A total of 22 pre-tests were attempted and 13 repeat draw-downs; 17 were successful and 1 x lost seal and 4 x curtailed tests. A summary of the wireline

pressure data is presented in Table 11 below and a plot of the pressure data is presented in Figure 3.

The sample chamber configuration consisted of:

- 6 x 840cc DOT/PVT multi-tank carrier (MRMS) and;
- 1 x 10 litre tank and;
- 1 x 4 litre tank.

A total of 2 x 840cc samples at 568.8mMD RT and 1 x 4 litre water sample at 588.5mMD RT were attempted and recovered.

Petrotech provided on-site validation and analysis of RCI gas samples and preliminary analysis of formation water samples. Draeger tubes were unable to detect hydrogen sulphide in any of the samples. The results of their work and of RCI water sample analyses are presented herein as Appendix 7.

Core Laboratories provided onshore laboratory analysis of RCI gas samples. The results of their work, including PVT analyses, are presented herein as Appendix 10.

An interpretation of the RCI results is presented in the final Petrophysical Report (by the Saros Group) and in the FRA/PTA Analysis Report (by BakerAtlas), both of which are included in the Moby-1 Interpretative Data Well Completion Report issued under separate cover.

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Table 11: RCI Pre-test Pressure and Sampling Results

No.	DEPTH	DEPTH	DEPTH	IHP	FFP			FHP		VOL	D. MOB	Comments
	(mMDRT)	(mTVDRT)	(mTVDSS)	(PSIA)	(PSIA)	(PSIA)	(PSIA)	(PSIA)	(psi)	(CC)	(mD/cp)	
					1st Press	2nd Press	Okay Data	FHP-IHP				
3	558.5	558.50	537.00	986.7	794.2			988.2	1.5	9.9	12.3	Tight test; Not FRA Compliant; did not see spherical flow
3	558.5	558.50	537.00	986.7		792.9		988.2	1.5	10	10.2	Tight test; Not FRA Compliant; did not see spherical flow
4	559.1	559.10	537.60	990.5	806.1			991.3	0.8	10.1	7.2	Tight test; Not FRA Compliant; did not see spherical flow
4	559.1	559.10	537.60	990.5		802.5		991.3	0.8	10.1	8.7	Tight test; Not FRA Compliant; did not see spherical flow
6	559.9	559.90	538.40	992.4	824			991.8	-0.6	10	8.1	Tight test; Not FRA Compliant; did not see spherical flow
6	559.9	559.90	538.40	992.4		822		991.8	-0.6	10	19.6	Tight test; Not FRA Compliant; did not see spherical flow
7	561.4	561.40	539.90	994.8	797.3			995.2	0.4	9.8	12.3	Tight test; Not FRA Compliant; did not see spherical flow
7	561.4	561.40	539.90	994.8		796.3		995.2	0.4	11	21.3	Tight test; Not FRA Compliant; did not see spherical flow
8	562.1	562.10	540.60	996	808.6			995.4	-0.6	10	13.7	Tight test; Not FRA Compliant; did not see spherical flow
8	562.1	562.10	540.60	996		806.2		995.4	-0.6	10.2	13.4	Tight test; Not FRA Compliant; did not see spherical flow
9	563.2	563.20	541.70	997.3	798.6			997.1	-0.2	10.1	13.7	Tight test; Not FRA Compliant; did not see spherical flow
9	563.2	563.20	541.70	997.3		798.2		997.1	-0.2	10.1	13.6	Tight test; Not FRA Compliant; did not see spherical flow
10	565.7	565.70	544.20	1004.3	0			1004.4	0.1	0	0	
11	565.4	565.40	543.90	1005.5	809			1002.3	-3.2	9.8	11.8	Tight test; Not FRA Compliant; did not see spherical flow
11	565.4	565.40	543.90	1005.5		807.7		1002.3	-3.2	10.1	13.8	Tight test; Not FRA Compliant; did not see spherical flow
12	568.2	568.20	546.70	1008.2	786.3			1006.3	-1.9	9.3	12.9	Tight test; Not FRA Compliant; did not see spherical flow
12	568.2	568.20	546.70	1008.2		785.8	785.8	1006.3	-1.9	9.8	22	Not FRA Compliant; did not see spherical flow; higher perm
13	569	569.00	547.50	1012.2	789.4			1010.7	-1.5	9.7	19.1	Not FRA Compliant; did not see spherical flow; higher perm
13	569	569.00	547.50	1012.2		788	788	1010.7	-1.5	9.7	15	Not FRA Compliant; did not see spherical flow; higher perm
14	571.2	571.20	549.70	1016.3	808.9			1011.9	-4.4	9.8	8.4	Tight test; Not FRA Compliant; did not see spherical flow
15	575.7	575.70	554.20	1021.2	802			1020.1	-1.1	9.9	7.5	Tight test; Not FRA Compliant; did not see spherical flow

Well Completion Report (Basic Data)- Moby-1

No.	DEPTH	DEPTH	DEPTH	IHP	FFP			FHP		VOL	D. MOB	Comments
	(mMDRT)	(mTVDRT)	(mTVDSS)	(PSIA)	(PSIA)	(PSIA)	(PSIA)	(PSIA)	(psi)	(CC)	(mD/cp)	
					1st Press	2nd Press	Okay Data		FHP-IHP			
16	577.1	577.10	555.60	1024.7	802.5		802.5	1022.7	-2.0	9.9	7.4	Tight test; Not FRA Compliant; did not see spherical flow
17	578.7	578.70	557.20	1027.6	808.4		808.4	1025.7	-1.9	10	6.8	Not FRA Compliant; did not see spherical flow; pressure derivative coming down
18	579.9	579.90	558.40	1028.2	813.2		813.2	1027.7	-0.5	9.9	7.1	Not FRA Compliant; did not see spherical flow; pressure derivative coming down
19	587.9	587.90	566.40	1045	808.5			1042	-3.0	9.6	53.5	Good test; FRA Compliant; see spherical flow; pressure is going up
19	587.9	587.90	566.40	1045	805.9			1042	-3.0	9.6	67	Good test; FRA Compliant; see spherical flow; pressure is going up
19	587.9	587.90	566.40	1045		805.7	805.7	1042	-3.0	9.5	64	Good test; FRA Compliant; see spherical flow
20	588.9	588.90	567.40	1046.6	808.1			1043.6	-3.0	9.9	58.3	Good test; FRA Compliant; see spherical flow; pressure is going up
20	588.9	588.90	567.40	1046.6		806.9	806.9	1043.6	-3.0	10.2	148.3	Good test; FRA Compliant; see spherical flow
21	591.1	591.10	569.60	1050.3				1047.3	-3.0	0		
22	593.2	593.20	571.70	1053.1				1051.2	-1.9	0		
23	596.9	596.90	575.40	1059				1057.5	-1.5	0		
25	608.1	608.10	586.60	1079.5				1079.6	0.1	0		
26	612.8	612.80	591.30	1087.8	923.3			1086.2	-1.6	10.3	8.4	
26	612.8	612.80	591.30	1087.8		919.1		1086.2	-1.6	10.1	7.8	
28	568.2	568.20	546.70	1005.9				1007.9	2.0	0		Attempt to take sample; no flow
29	568.5	568.50	547.00	1010.7				1007.9	-2.8	0		Attempt to take sample; no flow
30	568.2	568.20	546.70	1008.5				1007.5	-1.0	0		Attempt to take sample; no flow
31/	568.8	568.8	547.3	1009.5								Good; recover 2 x 840cc gas samples

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No.	DEPTH	DEPTH	DEPTH	IHP	FFP			FHP		VOL	D. MOB	Comments
	(mMDRT)	(mTVDRT)	(mTVD SS)	(PSIA)	(PSIA)	(PSIA)	(PSIA)	(PSIA)	(psi)	(CC)	(mD/cp)	
					1st Press	2nd Press	Okay Data	FHP-IHP				
32												
34	561.4	561.40	539.90	999.2				999	-0.2	0		Attempt to take sample; no flow
35	561.7	561.70	540.20	1000.3				1000.1	-0.2	0		Attempt to take sample; no flow
36	561.7	561.70	540.20	1001.5				1001.3	-0.2	0		
37	558.5	558.50	537.00	993.3				988.7	-4.6	0		Attempt to take sample; very slow flow
38	558.4	558.40	536.90	991.4				991.1	-0.3	0		Attempt to take sample; very slow flow
39	588.9	588.90	567.40	1047.6				1046	-1.6	0		Lost seal
40	588.5	588.50	567.00	1046.8	807.5		807.5	1046.5	-0.3	8.7	175	Good, recover 4 litres of water sample with trace (5ml) oil scum
41	572	572.00	550.50	1016.5				1015.9	-0.6	0		Attempt to take sample; no flow
42	572.1	572.10	550.60	1016.5				1015	-1.5	0		Attempt to take sample; very slow flow
43	572.2	572.20	550.70	1013.4				1015.4	2.0	0		Attempt to take sample; very slow flow
44	571	571.00	549.50	1014.7				1013.1	-1.6	0		Attempt to take sample; very slow flow
45	571.9	571.90	550.40	1017.8				1014.9	-2.9	0		Attempt to take sample; very slow flow
46	573	573.00	551.50	1019.6				1017.5	-2.1	0		Attempt to take sample; very slow flow

2.2.9 Drill Stem Testing

No DST was run in Moby-1.

2.2.10 Temperature, Drilling and Mud Property Data

There were no temperature surveys run in Moby-1. Three maximum recording thermometers were used on all wireline logging runs to record the temperature. The following temperatures were recorded on three of the four open hole logging runs conducted at final TD (660mMD RT):

Table 12: Wireline Recorded Temperature Data

Run No.	Wireline Log	Max. Recorded Temperature (°C)	Depth (mTVDSS) (corrected to top of tool string)	Hours Since Last Circulation	t/(Tx+t)
1	DLL-MLL-MAC-ZDL-CN-GR-TTRM	42.7°C	584.8m	8.5 hrs	0.8647
2	RCI-GR (Pressure & Samples)	44.4°C	573.9m	23.25 hrs	0.9459
3	SLR-GR	45°C	633.2m	40.90 hrs	0.9685
4	SWC-GR	N/A	N/A	47.35 hrs	N/A

Note: t = Time Since Circulation Stopped; Tx=Last Circulation

A discussion of the extrapolated bottom-hole temperature and calculated present day geothermal gradients using various techniques is presented in the Moby-1 Interpretative Data Well Completion Report.

2.3 Formation Evaluation

2.3.1 Biostratigraphy

A total of 21 samples (8 ditch cuttings and 13 SWC's) from the gross interval 538-630 metres were examined palynologically by *Dr Alan Partridge of Biostrata Pty Ltd*. These samples are listed below in Table 13. The results of this work are presented in Appendix 12 and a discussion of the results is presented in the Moby-1 Interpretative Data Well Completion Report issued under separate cover. All data are available in digital format which was distributed on CD Rom under separate cover.

Table 13: Samples submitted for Palynology

Sample Type	Depth (mMD RT)
Cuttings	547-550
Cuttings	553-556
Cuttings	562-565
Cuttings	574-577
Cuttings	583-586
Cuttings	589-604
Cuttings	610-613
Cuttings	627-630

Sample Type	Depth (mMD RT)
SWC #25	538.0
SWC #24	547.0
SWC #22	558.5
SWC #20	561.3
SWC #18	566.0
SWC #16	568.5
SWC #14	571.0
SWC #12	574.0
SWC #11	575.7
SWC #10	580.0
SWC #8	585.0
SWC #6	588.0
SWC #3	605.0

2.3.2 Petrology

Six (6) sidewall core samples were sent to Core Laboratories Australia Pty Ltd for petrological analysis. These are listed below in Table 14. Their results, including descriptions and photographs of the thin sections examined plus X-ray diffraction (XRD) and scanning electron microscopy (SEM) on these six (6) samples is presented in the Moby-1 Interpretative Data Well Completion Report issued under separate cover.

Table 14: Samples submitted for Petrology

Sidewall Core #	Depth (mMD RT)
SWC#22	558.5
SWC#16	568.5
SWC#11	575.7
SWC#8	585.0
SWC#6	588.0
SWC#3	605.0

2.3.3 Core Analysis

Twenty two (22) samples were submitted to Core laboratories Australia Pty Ltd for quantitative core analysis. These are listed below in Table 15. The analytical results are included herein as Appendix 4, while the results are also annotated on the sidewall core photographs included herein as Appendix 3.

Table 15: Sample submitted for Quantitative Core Analysis

SWC NO.	DEPTH (mMD RT)	SWC NO.	DEPTH (mMD RT)
1	651.50	13	572.00
2	621.00	14	571.00
3	605.00	15	569.00
4	597.50	16	568.50
5	590.00	17	567.30

SWC NO.	DEPTH (mMD RT)	SWC NO.	DEPTH (mMD RT)
6	588.00	18	566.00
7	586.00	19	563.00
8	585.00	20	561.30
9	584.00	21	560.00
10	580.00	22	558.50
11	575.70		
12	574.00		

2.3.4 Geochemistry

Six (6) sidewall core samples were submitted to Geotechnical Services Pty Ltd for geochemical analysis. These are listed below in Table 16. In addition, the oil scum collected on the water sample recovered from a depth of 588.5mMD RT was characterised, while a sample of the drilling fluid used in the 216mm (8 ½") hole section was also characterised. The analytical results are included herein as Appendix 11, while an interpretation of the results is included in the Moby-1 Interpretative Data Well Completion Report issued under separate cover.

Table 16: Samples submitted for Geochemistry

Sidewall Core #	Depth (mMD RT)
SWC#21	560.0
SWC#16	568.5
SWC#13	572.0
SWC#9	584.0
SWC#7	586.0
SWC#6	688.0

3. Drilling Records

3.1 Operational Reports

Daily operational reports are summarised in Appendix 19.

3.2 Bit and BHA Reports

Bit and BHA reports are summarised in Appendix 18.

3.3 Casing and Cementing Reports

Casing and Cementing Reports are presented in Appendix 16.

3.4 Drilling Fluids Reports

The MI Swaco Drilling Fluids report is presented in Appendix 17.

3.5 Well Trajectory

The trajectory for the well is presented in Table 17.

Table 17: Well Trajectory

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
0.000	0.00	0.00	0.000	0.000 N	0.000 E	0.000	TIE-IN
74.500	0.00	0.00	74.500	0.000 N	0.000 E	0.000	0.00
321.760	0.00	0.00	321.760	0.000 N	0.000 E	0.000	0.00
327.930	0.39	145.85	327.930	0.017 S	0.012 E	-0.017	1.89
356.580	0.37	159.98	356.579	0.185 S	0.098 E	-0.185	0.10
385.260	0.52	174.11	385.258	0.403 S	0.144 E	-0.403	0.19
413.910	0.50	188.24	413.907	0.658 S	0.139 E	-0.658	0.13
442.660	0.36	202.37	442.657	0.866 S	0.087 E	-0.866	0.19
471.390	0.39	216.49	471.386	1.028 S	0.005 W	-1.028	0.10
500.190	0.46	30.62	500.186	1.008 S	0.005 W	-1.008	0.88
528.930	0.54	244.75	528.925	0.968 S	0.070 W	-0.968	1.00
557.620	0.69	258.88	557.614	1.059 S	0.363 W	-1.059	0.22
586.240	0.60	273.01	586.232	1.084 S	0.682 W	-1.084	0.19
614.910	0.68	287.14	614.900	1.026 S	0.995 W	-1.026	0.18
643.580	0.79	301.27	643.568	0.874 S	1.327 W	-0.874	0.22
654.700	1.01	315.40	654.686	0.764 S	1.461 W	-0.764	0.84
660.000	1.01	315.40	659.985	0.697 S	1.527 W	-0.697	0.00

3.6 LOT/FIT Reports

Formation Integrity Test details for the well are summarised in Table 18.

Table 18: Formation Integrity Test Summary

Casing		Depth	Formation Integrity Test Pressure		EMW		LOT EMW
In	mm	mMD RT	psi	Kpa	ppg	sg	sg
13 3/8"	340	328	228	1,572	10	1.2	1.7

3.7 Project Logistics

Logistics and support infrastructure are summarised in Figure 3.

3.7.1 Mobilisation

A minimal amount of spud gear was mobilised on the Ocean Patriot from New Zealand. The “Far Grip” had made a trip to Eden for the first load out and went to Port Melbourne on the second and last trip. The “Pacific Wrangler” had an unscheduled trip to port due to customs and immigration requirements.

3.7.2 Shorebase

Wharf 27 in Port Melbourne was the central shorebase with equipment being trucked to Eden as required for the first load out.

3.7.3 Helicopters / Crew Changes

Crew changes were conducted out of Essendon. Fixed wing airplanes were used to fly to Sale Airport on days with multiple trips to BAS and/or OMV rigs.

Bristow’s helicopter required an unprogrammed engine change out leaving us with one helicopter to be shared with OMV for the majority of the well.

3.8 *Communications*

Diamond Offshore General Company (DOGC) supplied one telephone line and one data line for BAS communications.

RigNet equipment arrived late in Melbourne without the required customs clearance. The dish and dome was assembled and a lifting frame had to be built for transport to the rig. None of the equipment was ready until the end of the well. The communications dome antennae was deemed unsuitable for use on the Ocean Patriot based on its height of 6 metres. There was no suitable location to fit the dome antennae on the rig without jeopardizing helicopter landing operations.

3.9 *Weather Forecasting*

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

4. Unscheduled Events

4.1 *Pre-Spud*

10hrs 25min were lost due to repositioning of primary anchors as the position of the derrick interrupted communications. A considerable amount of time was spent waiting on weather.

4.2 *Drilling*

Moby-1 was a shallow well and no major drilling problems occurred.

4.3 *Post Drilling*

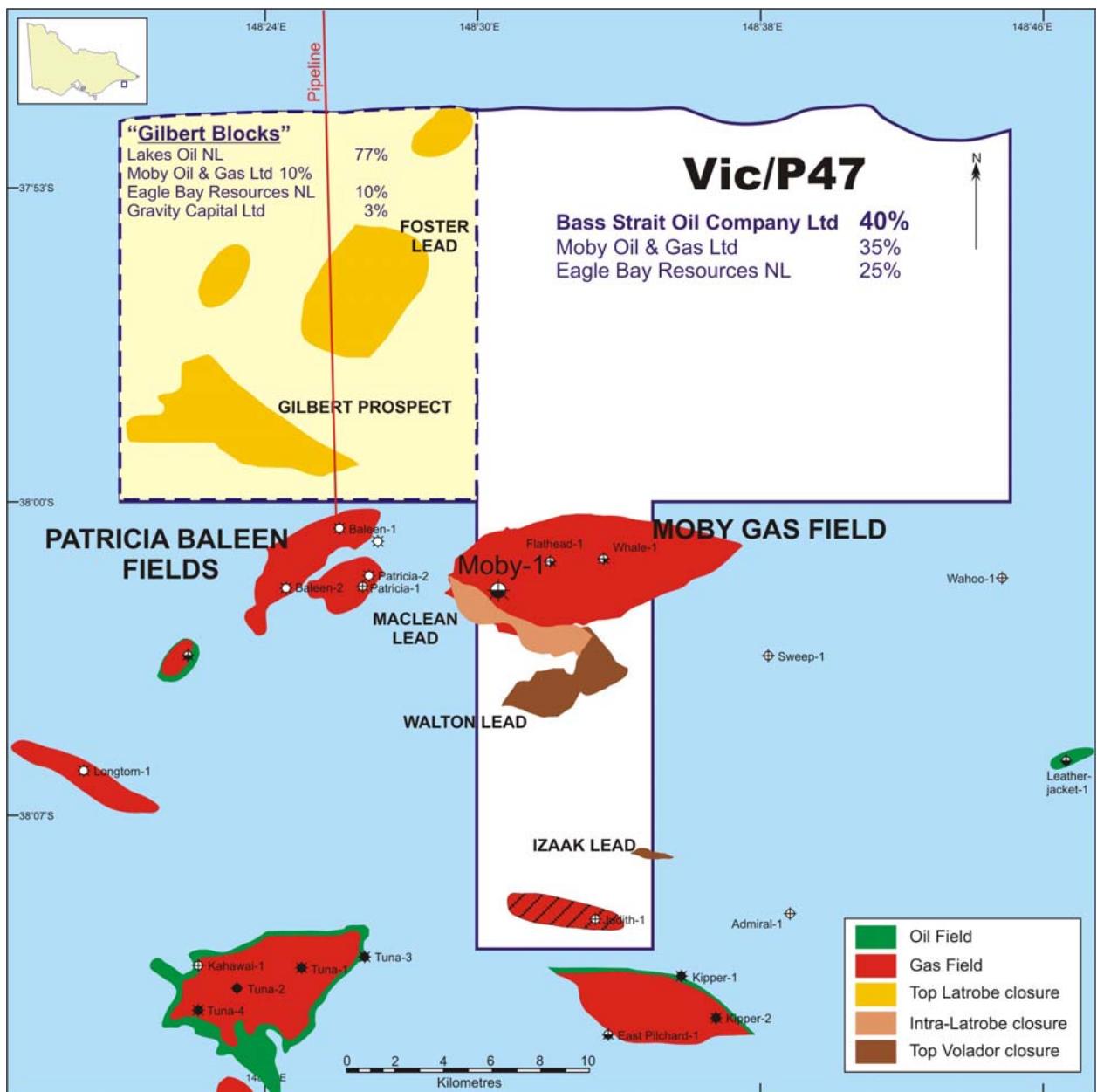
The 476mm (18 $\frac{3}{4}$ ") wellhead housing spun $\frac{1}{4}$ turn while cutting the 508mm (20") extension causing the 476mm (18 $\frac{3}{4}$ ") housing to pull free and rotating on top of cutters. 476mm (18 $\frac{3}{4}$ ") wellhead stump had to be tripped out of hole and the 762mm (30") conductor had to be cut by itself requiring an additional trip.

4.4 *Downtime Analysis*

Downtime analysis can be found in Appendix 18.

FIGURES

Figure 1
Location Maps



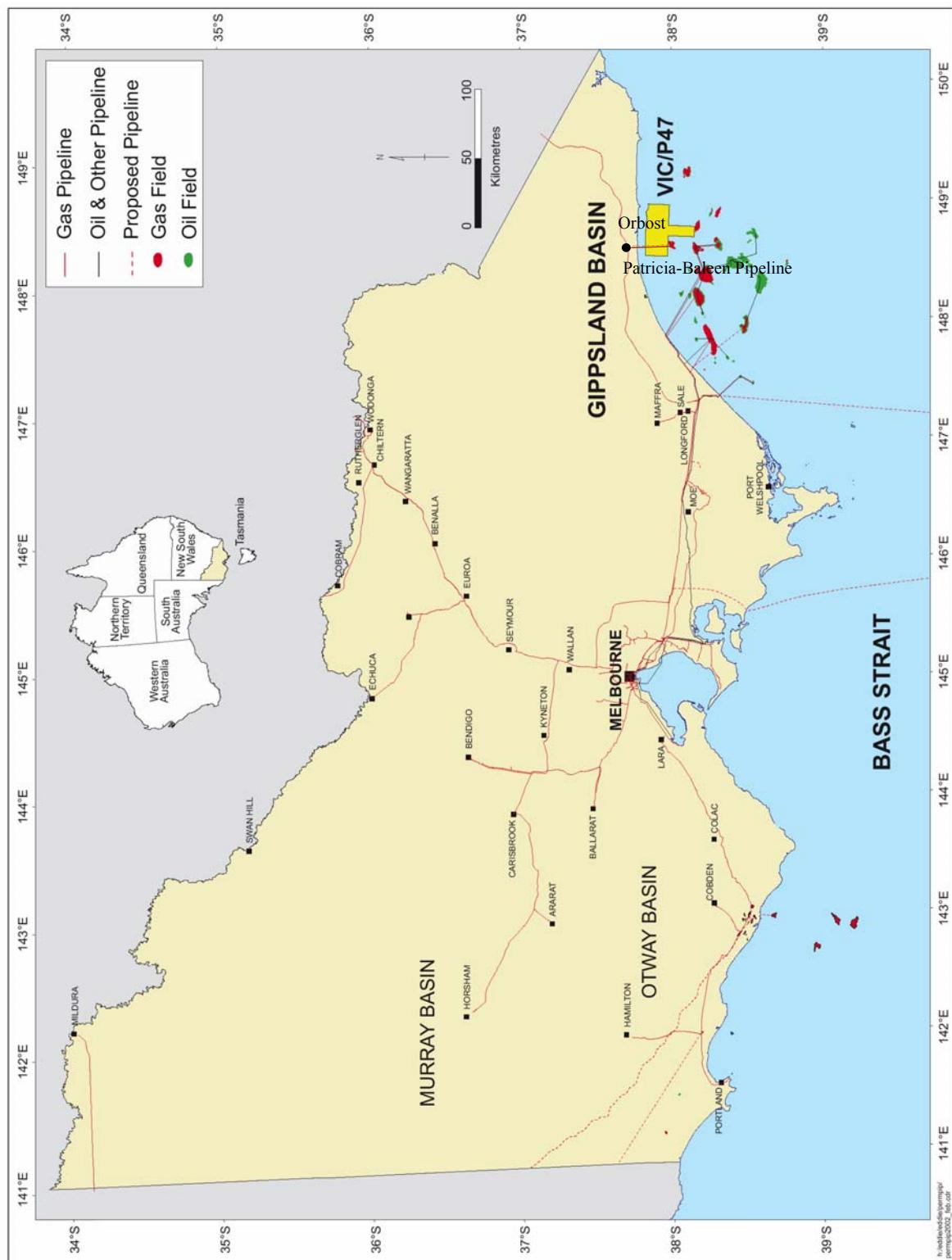


Figure 2
Time versus Depth Curve

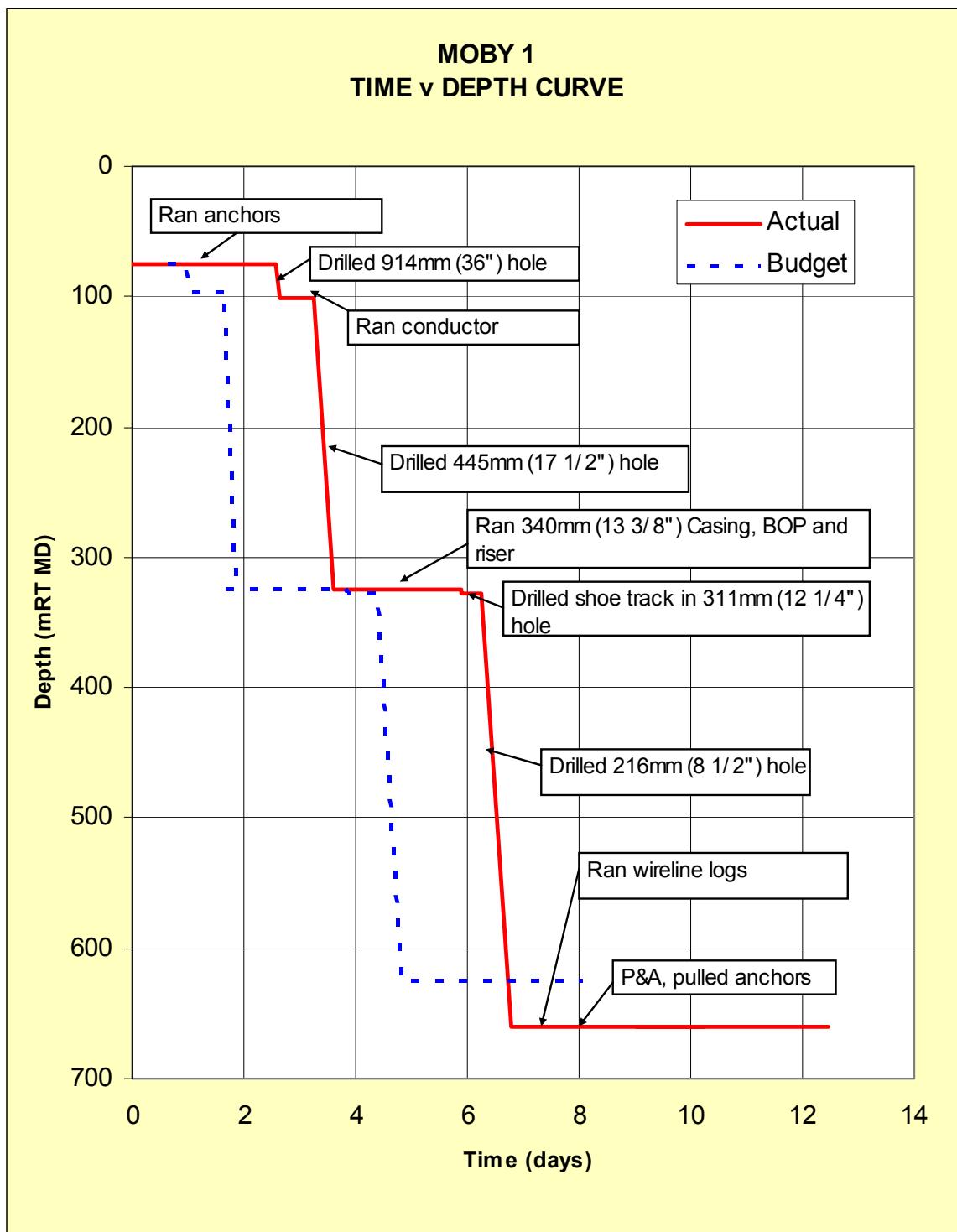
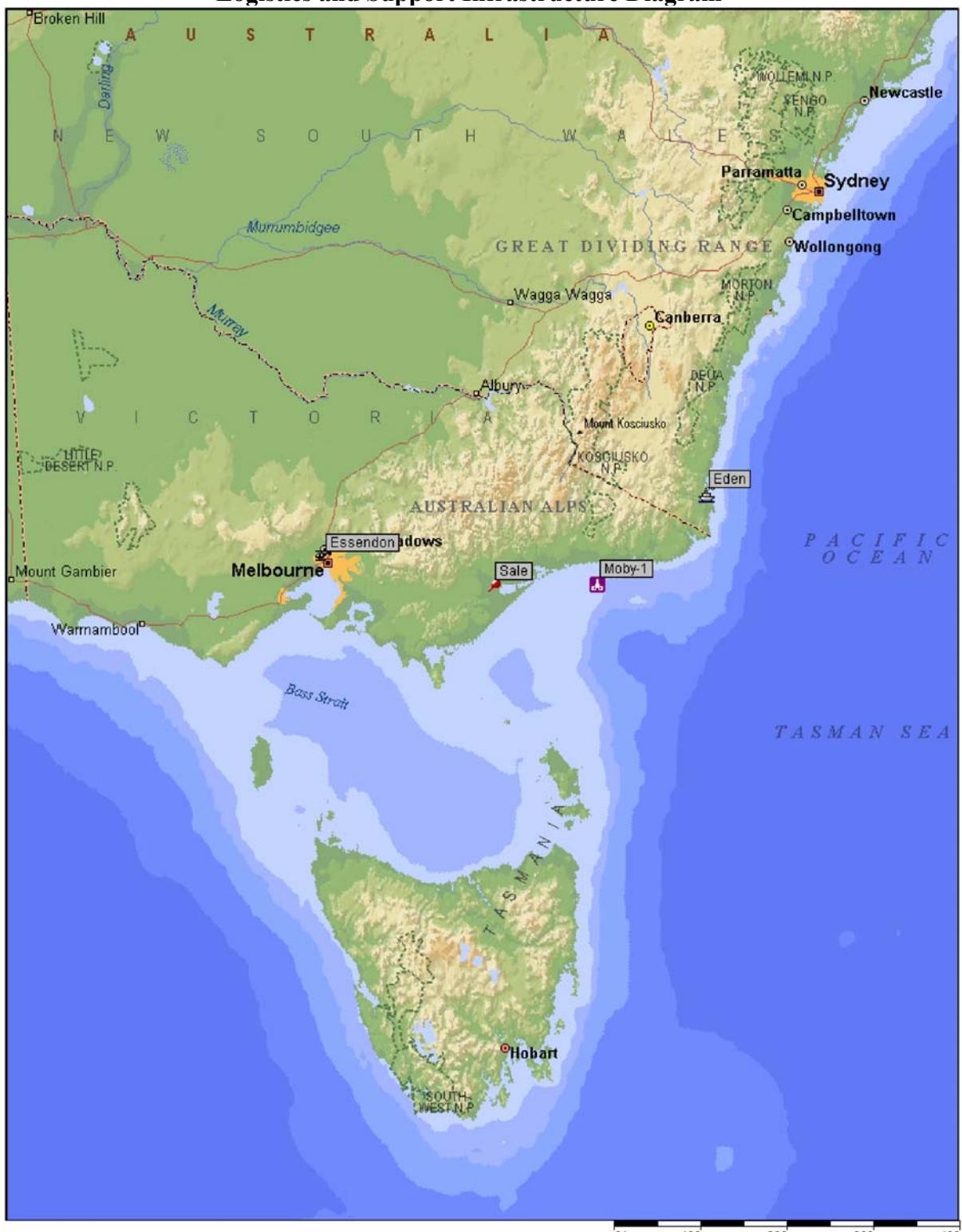


Figure 3
Logistics and Support Infrastructure Diagram



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

APPENDIX 1

CUTTINGS SAMPLE DESCRIPTIONS

(By Bass Strait Oil Company Ltd)



MOBY-1 - CUTTINGS DESCRIPTION SHEET

From 325 – 660m

Wellsite Geos Geoff Geary, Don MacFarlan

Depth m	%	Lithology and Show Descriptions	Ca%	Mg%
328	70 30	Cement. Calcilutite, argillaceous , white to light grey, very soft to soft, amorphous, micritic (65-75%) and argillaceous (20-30%) matrix, trace to common (trace-15%) fossil fragments (shell fragments, bryozoa, spicules, shell fragments), trace – abundant (trace-20%) calcisiltite grading to calcisiltite in part, trace fine medium - dark green grains.		
330	95 Tr 5	Calcilutite, argillaceous , off white-light grey, very soft, amorphous, micritic with trace fine shell fragments, forams, trace very fine sand-silt. Limestone , light grey, hard. Cement	60	5
340	95 5	Calcilutite , as above. Calcarenite , pale yellowish brown, light grey, hard, partly recrystallised, clasts shell fragments, forams, with trace clay matrix.		
350	100 Tr	Calcilutite as above, occasionally grading to calcisiltite as above. Calcarenite , as above, pale yellowish brown, light grey, firm-hard.		
360	95 Tr	Calcilutite , as above. Calcisiltite , medium-medium dark grey, firm, argillaceous with trace very fine sand, silt, Grades into calcilutite and calcarenite .	75	1
370	100 Tr Tr	Calcilutite , as above, with trace bryozoans, shell fragments, large forams. Calcisiltite , as above. Calcarenite , as above.		
380	100 Tr	Calcilutite , very light-medium light grey, soft, amorphous, micritic, common argillaceous matrix (10-15%) with trace shell fragments, forams, bryozoan fragments; trace fine-medium glauconite. Calcarenite firm-hard, partly recrystallised as above.	85	0
390	100 Tr Tr	Calcilutite , as above. Calcisiltite , as above. Calcarenite , as above, with trace glauconite.		
400	100 Tr	Calcilutite , as above, with trace loose bryozoan fragments, large forams (?Amphistegina), trace loose bryozoan fragments, large forams (?Amphistegina) Calcisiltite , as above. Calcarenite , as above, with trace glauconite.		
410	100 Tr	Calcilutite , as above. Calcisiltite , firm, dark grey, argillaceous, with trace fine black carbonaceous fragments.		
420	100 Tr	Calcilutite , as above Calcisiltite , medium dark grey, as above.		
430	100 Tr	Calcilutite , as above, with trace coarse glauconite. Calcarenite , as above.		
440	90	Calcilutite , very light-medium light grey, soft, amorphous, micritic, common argillaceous matrix (10-15%), minor-common calcisilt (5-15%) grading to argillaceous	75	2



MOBY-1 - CUTTINGS DESCRIPTION SHEET

Depth m	%	Lithology and Show Descriptions	Ca%	Mg%
	10	calcisiltite in part, trace - rare shell fragments incl. large forams, bryozoan fragments; trace fine-medium glauconite. Calcisiltite , soft-firm, light-medium grey, trace dark grey, argillaceous (10 -20%) matrix grading to argillaceous calcilutite , with trace fine black carbonaceous fragments, trace coarse nodular pyrite.		
	Tr	Calcarenite , pale yellowish brown, light grey, firm -hard, partly recrystallised clasts, shell fragments and large forams, trace clay matrix.		
450	60	Calcisiltite, argillaceous , soft-firm, very light-medium grey, trace dark grey, argillaceous matrix (20-30%), grading to argillaceous calcilutite in part, trace – minor fossil fragments (trace-10%) incl. coral debris, bryozoa, spicules, shell fragments and forams, trace fine dark green glauconite, trace soft pyrite, trace coarse nodular pyrite.		
	40	Calciutite , as above, grading to argillaceous calcisiltite in part.		
460	70	Calcisiltite, argillaceous , as above.	70	2
	30	Calciutite argillaceous , very light to medium grey, soft, dispersive in part, amorphous, argillaceous (20-25%) matrix, minor to abundant calcisilt (5-15%) grading to argillaceous calcisiltite in part, trace - rare (trace-5%) fossil fragments and forams, trace very fine dark green glauconite.		
470	60	Calcisiltite, argillaceous , as above.		
	40	Calciutite argillaceous , as above.		
480	80	Calcisiltite, argillaceous , soft-firm, amorphous, hard in part, splintery, very light-medium grey and brownish grey, trace dark grey, argillaceous matrix (20-30%), grading to argillaceous calcilutite in part, trace fossil fragments incl. coral debris, bryozoa, spicules, shell fragments and forams, trace fine dark green disseminated glauconite and nodular glauconite, trace fine pyrite, trace coarse nodular pyrite.		
	30	Calciutite argillaceous , very light to medium grey, soft, dispersive in part, amorphous, argillaceous (20-30%) matrix, minor to abundant calcisilt (5-15%) grading to argillaceous calcisiltite in part, trace fossil fragments, trace very fine dark green disseminated glauconite.		
490	50	Calcisiltite, argillaceous , as above.		
	50	Calciutite argillaceous , as above.		
500	40	Calciutite argillaceous , as above.	80	2
	30	Calcisiltite, argillaceous , as above.		
	30	Marl , very light to light medium grey, very soft - soft, dispersive in part, amorphous, clay matrix (35-44%) grading to argillaceous calcilutite in part, trace to 5% calcisilt, trace very fine dark green disseminated glauconite, trace fossil fragments and forams.		
510	50	Calciutite argillaceous , as above.		
	30	Calcisiltite, argillaceous , as above.		
	30	Marl , as above.		
520	60	Calciutite argillaceous , as above.	60	3
	30	Marl , as above		
	20	Calcisiltite, argillaceous , as above.		



MOBY-1 - CUTTINGS DESCRIPTION SHEET

Depth m	%	Lithology and Show Descriptions	Ca%	Mg%
530	40	Calilutite argillaceous , soft-slightly firm, very light-medium grey, trace dark grey, argillaceous matrix (20-30%), grading to argillaceous calcisiltite in part, trace fossil fragments incl. coral debris, bryozoa, spicules, shell fragments and forams, trace fine dark green disseminated glauconite and nodular glauconite, trace fine pyrite, trace coarse nodular pyrite.	47.5	2
	40	Claystone, calcareous , light grey to brownish grey, trace light greenish grey, soft, amorphous to blocky, 15-25% calcareous matrix, trace – 5% calcisilt, trace light brownish yellow fossil fragments, trace fine dark green disseminated glauconite and nodular glauconite, trace fine pyrite, trace coarse nodular pyrite.		
	10	Marl , as above.		
	10	Calcsiltite, argillaceous , as above.		
540	80	Claystone, calcareous , as above.		
	10	Calilutite argillaceous , as above.		
	10	Marl , as above		
	Tr	Calcsiltite, argillaceous , as above.		
545	90	Claystone, calcareous , as above, increasing medium dark grey.	52.5	2
	10	Marl , as above.		
550	90	Claystone, calcareous , light grey to medium dark grey and brownish grey, trace light greenish grey, soft, amorphous to blocky, calcareous matrix (15-25%), trace – 5% calcisilt, trace light brownish yellow fossil fragments, trace fine dark green disseminated glauconite and nodular glauconite, trace fine pyrite, trace coarse nodular pyrite.		
	10	Marl , very light to light medium grey, very soft - soft, dispersive in part, amorphous, 35-45% clay matrix grading to argillaceous calilutite in part, trace to 5% calcisilt, trace very fine dark green disseminated glauconite, trace fossil fragments and forams.		
553	100	Claystone, calcareous , light grey to medium dark grey and brownish grey, trace light greenish grey, soft, amorphous to blocky, calcareous matrix (15-25%), trace – 5% calcisilt, trace light brownish yellow fossil fragments, trace – 5% fine – medium dark green disseminated glauconite, trace nodular glauconite, trace fine pyrite.		
556	80	Claystone, calcareous , light grey to medium dark grey and brownish grey, trace light greenish grey, soft, amorphous to blocky, calcareous matrix (15-25%), trace – 5% calcisilt, trace light brownish yellow fossil fragments, trace – 5% fine – medium dark green disseminated glauconite, trace nodular glauconite, trace fine pyrite.		
	20	Claystone : light to medium greyish brown and light brownish yellow, soft – firm, hard in part, amorphous to blocky, rare-abundant (5-20%) silt-fine sandstone grading to silty claystone , trace fine to medium dark green glauconite, trace nodular pyrite.		
	Tr	Sandstone, silty , light to dark yellowish brown, loose and friable, minor firm to hard, clear to translucent quartz grains, very fine to fine, poorly to moderately sorted, sub angular to sub rounded, 15 to 25% quartz silt, 5 to 20%		



MOBY-1 - CUTTINGS DESCRIPTION SHEET

Depth m	%	Lithology and Show Descriptions	Ca%	Mg%
		argillaceous matrix, trace fine-medium glauconite, trace mica, trace siderite nodules, trace multicoloured lithics, fair to good inferred porosity, no fluorescence.		
559	80	Claystone , light to medium greyish brown and light brownish yellow, soft – firm, hard in part, amorphous to blocky, rare-abundant (5-20%) silt-fine sandstone grading to silty claystone , trace fine to medium dark green glauconite, trace nodular pyrite.		
	20	Siltstone , medium to dark yellowish brown, soft-firm, argillaceous, with 5-10% very fine quartz sand, trace-5% glauconite. Grades into		
	tr	Sandstone , silty , medium yellowish brown, firm, friable - soft, very fine-fine, (dom vfl, max fL), subangular-subrounded, poorly sorted, 5-15% argillaceous matrix, trace fine-medium glauconite, trace mica, trace siderite nodules, nil-poor inferred porosity, no fluorescence.		
562	70	Siltstone , medium to dark yellowish brown, soft-firm, argillaceous, with 5-10% very fine quartz sand grading into sandstone , trace-5% glauconite.		
	20	Claystone as above, in part with trace glauconite		
	10	Sandstone , medium yellowish brown, firm, friable to soft, very fine-fine (dom vfl, max fU), subangular-subrounded, poor - moderately sorted, 10-15% silt, 5-10% argillaceous matrix, poor inferred porosity, 10% dull yellow fluorescence, slow blue-white cut, solid blue-white ring residue.		
565	10	Claystone , as above.	25	4
	60	Siltstone , as above.		
	30	Sandstone , medium yellowish brown, firm, friable to soft, loose in part, very fine - fine, (dom vfU), subangular-subrounded, poor - moderately sorted, 10-15% silt, 5-10% argillaceous matrix, trace mica (biotite and muscovite), poor – good inferred porosity, 15% dull – moderately bright yellow fluorescence, slow blue-white cut, solid blue-white ring residue.		
568	10	Claystone , light to medium grey, as above		
	70	Siltstone , medium to dark yellowish brown, firm-hard or very soft, argillaceous, with 5-10% very fine quartz sand, trace coarse glauconite, trace large forams (?Amphistegina), corals, bryozoan fragments.		
	20	Sandstone , medium yellowish brown, firm, friable to soft, loose in part, very fine - fine, (dom vfU), subangular-subrounded, poor - moderately sorted, 10-15% silt, 5-10% argillaceous matrix, trace – 5% fine glauconite and glauconite nodules, trace mica (biotite and muscovite), trace large forams (?Amphistegina), corals, bryozoan fragments, poor – good inferred porosity, 20% dull – moderately bright yellow fluorescence, moderately fast blue-white cut, solid blue-white ring residue.		
571	10	Claystone , in part soft, very light grey, weakly laminated		
	40	Siltstone , as above, in part highly glauconitic,		
	50	Sandstone , as above, good inferred porosity, 60% dull – moderately bright yellow fluorescence, instantaneous blue-		



MOBY-1 - CUTTINGS DESCRIPTION SHEET

Depth m	%	Lithology and Show Descriptions	Ca%	Mg%
		white cut, solid blue-white ring residue.		
574	10 50 40	Claystone , as above Siltstone , as above, medium yellowish brown to dark green, generally very soft, with 10-20% very fine-fine quartz sand, common glauconite. Sandstone , as above, poor - good inferred porosity, 5% dull – moderately bright yellow fluorescence, instantaneous blue-white cut, solid blue-white ring residue.		
577	5 60 20 15 10	Claystone , as above. Siltstone , medium to dark yellowish brown, soft – firm, occasionally hard, argillaceous, with 5-10% very fine quartz sand, trace coarse glauconite. Sandstone , as above, increasingly glauconitic, trace-abundant glauconite, grading to greensand in part, poor - good inferred porosity, trace dull yellow fluorescence, slow blue-white cut, patchy blue-white ring residue. Greensand , dark yellowish green to dusky green, soft – firm, loose grains in part, very fine to coarse grained, trace nodular glauconite, trace – 20% quartz sand, trace shell fragments.		
580	10 70 10 10	Claystone , light to medium greyish brown and light brownish yellow, soft – firm, hard in part, amorphous to blocky, rare-abundant (5-20%) silt-fine sandstone grading to silty claystone , trace -10% fine to medium dark green glauconite, trace nodular pyrite. Siltstone , as above. Sandstone , moderate brown, soft, friable, very fine to fine (dom vfL, max fL), subangular-subrounded, moderately sorted, with trace-5% clay matrix, appears to be stained quartz, poor inferred porosity, trace spotty dull yellow fluorescence, slow blue-white cut, patchy blue-white ring residue. Greensand , as above.	32.5	4
583	10 50 25 5	Claystone as above. Siltstone , as above, argillaceous, glauconitic. Sandstone , moderate brown, very fine, glauconitic, as above, no fluorescence or cut. Greensand , as above, loose glauconite.		
586	Tr 30 20 50	Claystone , as above. Siltstone , as above. Sandstone, as above, no fluorescence or cut. Sandstone , clear-frosted, translucent, light grey, loose, medium-coarse (dom cL), quartzose, angular to sub-rounded, commonly fractured quartz grains, poorly sorted, very good inferred porosity no fluorescence or cut.		
589	20 80 Tr	Siltstone , as above. Sandstone , clear-frosted translucent, white to light grey, loose, firm - hard aggregates in part, medium-coarse (dom cL), quartzose, angular to sub-rounded, commonly fractured quartz grains, poorly sorted, trace to 20% argillaceous matrix, trace calcareous cement, trace nodular pyrite, trace coal partings, poor to very good inferred porosity no fluorescence or cut. Coal , black, firm to hard, splintery.		



MOBY-1 - CUTTINGS DESCRIPTION SHEET

Depth m	%	Lithology and Show Descriptions	Ca%	Mg%
592	10 90	Siltstone , as above. Sandstone , clear-frosted, translucent, white to light grey, loose, firm - hard aggregates in part, medium-coarse (dom. cL), quartzose, angular to sub-rounded, commonly fractured quartz grains, poorly sorted, trace to 20% argillaceous matrix, trace calcareous cement, trace nodular pyrite, trace coal partings, poor to very good inferred porosity no fluorescence or cut.		
595	20 80	Claystone , white to very light grey, soft, dispersive - blocky, trace – 5% silty/sandy in part. Sandstone , clear-frosted, translucent, white to light grey, green grey, loose, firm - hard aggregates in part, medium-coarse (dom cL), quartzose, trace – 5% lithics, angular to sub-rounded, commonly fractured quartz grains, poorly sorted, trace to 20% argillaceous matrix, trace calcareous cement, trace nodular pyrite, trace coal partings, poor to very good inferred porosity no fluorescence or cut.		
598	30 70 Tr	Claystone , as above. Sandstone , as above Coal , brownish black, firm, brittle, fibrous, large fragments.		
601	10 90 Tr	Claystone , white to very light grey, soft, dispersive - blocky, trace – 5% silty/sandy in part. Sandstone , clear-frosted, translucent, white to light grey, green grey, loose, firm - hard aggregates in part, fine-coarse (dom mL), quartzose, trace – 5% lithics, angular to well rounded, trace fractured quartz grains, poorly sorted, trace to 20% argillaceous matrix, trace calcareous cement, trace nodular pyrite, trace – 5% coal partings, poor to very good inferred porosity no fluorescence or cut. Coal , as above.	7.5	1
604	100 Tr	Sandstone , as above. Coal , as above.		
607	20 80 Tr Tr	Claystone , white to very light grey, soft, dispersive, trace – 5% silty/sandy in part. Sandstone , as above, increasing lithics. Coal , as above. Cavings , coarse glauconite nodules and fossil fragments.		
610	30 70 Tr Tr	Claystone , as above. Sandstone , as above, increasing lithics, trace coarse nodular pyrite. Coal , as above. Cavings , coarse loose glauconite nodules and fossil fragments.		
613	20 80 Tr Tr	Claystone , as above. Sandstone , clear-frosted, translucent, white to medium grey, green grey, loose, firm - hard aggregates in part, fine-coarse (dom mL), quartzose, trace – 10% lithics, angular to well rounded, poorly sorted, trace to 20% argillaceous matrix, trace calcareous cement, trace nodular pyrite, trace – 5% coal partings, poor to good inferred porosity no fluorescence or cut. Coal , as above. Cavings , coarse loose glauconite nodules and fossil		



MOBY-1 - CUTTINGS DESCRIPTION SHEET

Depth m	%	Lithology and Show Descriptions	Ca%	Mg%
		fragments.		
616	10 90 Tr. Tr.	Claystone , as above. Sandstone , as above. Coal , as above. Cavings , coarse loose glauconite nodules and fossil fragments.		
619	10 90 Tr. Tr.	Claystone , as above. Sandstone , as above. Coal , as above. Cavings , as above.	12.5	3
622	20 90 Tr.	Claystone , as above. Sandstone , as above. Cavings , as above.		
630	20 70 10	Claystone , as above. Sandstone , clear-frosted, translucent, white to medium grey, green grey, moderate reddish brown, dark yellowish orange, black, loose, firm - hard aggregates, fine-coarse (dom mL), quartzose, trace – 10% lithics, angular to well rounded, poorly sorted, trace to 20% argillaceous matrix, trace calcareous cement, trace nodular pyrite, trace coal partings, trace very coarse biotite flakes, poor to good inferred porosity, no fluorescence or cut. Cavings , as above.		
640	30 65 Tr 5	Claystone , white to very light grey, greyish brown, soft to firm, trace – 5% silty/sandy in part. Sandstone , as above. Coal , as above. Cavings , as above.	5	1
650	40 60 Tr Tr	Claystone , white to very light grey, greyish brown, soft to firm, 5-10% silty/sandy in part. Sandstone , as above. Coal , as above. Cavings , as above.		
660	40 60 Tr. Tr.	Claystone , as above. Sandstone , as above. Coal , as above. Cavings , as above.	6	0

APPENDIX 2

SIDEWALL CORE DESCRIPTIONS

(By Bass Strait Oil Company Ltd)

SWC Description Sheet

WELL SUITE RUN	Moby-1 1 4	DATE RUN	13 October 2004	No. OF CORES ATTEMPTED	25	(Page 1 of 3)
		TOP SAMPLE	538.00	No. OF CORES RECOVERED	25	Desc. by D MacFarlan /R Fisher
		BOTTOM SAMPLE	651.50	No. OF CORES ACCEPTED	25	Date Desc. 14 October 2004

SWC NO.	DEPTH (mRT)	Predicted Lithology	REC (cm)	Actual Lithology	DESCRIPTIONS	Hydrocarbon Show
1	651.50	sandstone	4.2	sandstone	Sandstone , medium light grey, soft, friable, fine (dom fU, max mL) subrounded-well rounded, poorly sorted, non-calcareous, with 10-20% light grey silty clay matrix, clasts quartz with 20-30% gen. well-rounded, light brown, black, dark grey lithics, trace light brown mica, trace ?forams. Visual porosity nil	nil
2	621.00	sandstone	3.5	sandstone	Sandstone , medium light grey, soft, friable, fine (dom fU, max mU) subrounded-well rounded, poorly sorted, non-calcareous, with 10-20% light grey silty clay matrix, clasts quartz with 20-30% gen. well-rounded, black, dark grey, dark greenish grey, occ light brown fine-grained lithics. Visual porosity nil	nil
3	605.00	sandstone	3.5	sandstone	Sandstone , medium light grey, soft, friable, fine (dom fL, max cL) subrounded-well rounded, poorly sorted, non-calcareous, with 10-20% light grey silty clay matrix, clasts quartz with 20-30%, black, medium to dark grey, dark greenish grey, fine-grained lithics. Visual porosity nil	nil
4	597.50	sandstone	3.5	sandstone	Sandstone , medium light grey, soft, friable, fine (dom fL, max cL) subrounded-well rounded, poorly sorted, non-calcareous, with 10-20% light grey silty clay matrix, clasts quartz with 10-20%, black, medium to dark grey, dark greenish grey, fine-grained lithics. Rare dark brown mica. Visual porosity nil-poor	nil
5	590.00	sandstone	3.5	sandstone	Sandstone , light grey, soft, friable, fine (dom fU, max cU) subrounded-well rounded, poorly sorted, non-calcareous, with 10-20% light grey silty clay matrix, clasts quartz with 10-20%, black or light to medium grey, fine-grained lithics, 5-10% milky white ?feldspar, trace dark brown mica. Visual porosity nil-poor.	nil
6	588.00	sandstone	5.0	sandstone	Sandstone , medium light grey, soft, friable, fine (dom fL, max mL) subrounded-well rounded, moderately sorted, non-calcareous, with 10-20% light grey silty clay matrix, clasts quartz with 5-10%, light to medium grey, occ dark grey , fine-grained lithics, 5-10% milky white ?feldspar. Visual porosity nil-poor.	nil
7	586.00	sandstone	4.3	sandstone	Sandstone , quartzose, medium light grey, soft, friable, very fine to fine, dominantly upper very fine, sub-angular, low to medium sphericity, moderate to well sorted, <5% quartz silt matrix, 3% black and dull orange lithic grains and/or carbonaceous grains, trace-1% white mica, good visible inter-granular porosity.	Fair, even yellowish-white fluorescence, fast bluish-white blooming cut. Solid yellowish-white residual ring
8	585.00	sandstone	4.4	sandstone	Sandstone , medium dark grey, soft, very fine-fine (dom vfU, max vcL, subangular to subrounded poorly sorted, very slightly calcareous, with 20-30% clay matrix grains quartz with trace lithics, quartz grains, occ medium to very coarse sub-rounded quartz grains, trace very fine black-dark grey, dark brown, orange lithics, trace fine carbonaceous fragments, common fine white mica. Visual porosity nil.	Nil

SWC Description Sheet

SWC NO.	DEPTH (mRT)	Predicted Lithology	REC (cm)	Actual Lithology	DESCRIPTIONS	Hydrocarbon Show
9	584.00	sandstone	3.2		Sandstone , silty, medium grey-brownish grey, very fine to fine, dominantly lower very fine, sub-angular, low to medium sphericity, moderate sorting, 30% quartz silt matrix, trace-5% detrital clay matrix, trace-2% lithic grains, trace carbonaceous grains, 1-2% greenish grains (chlorite or glauconite?), trace white mica, soft to firm, poor visible inter-granular porosity.	Fair, patch pale gold fluorescence, rapid yellowish- white streaming cut Solid bluish-white residual ring
10	580.00	sandstone	3.5	siltstone	Siltstone , dark brownish grey, moderately soft, argillaceous, with trace calcareous cement, 10-20% detrital clay matrix; 10-20% very fine quartz sand, trace very fine white mica. Visual porosity nil.	Nil
11	575.70	claystone	4.8	sandstone	Sandstone , mottled brownish grey and dark green, mod. soft, very fine (dom vfL, max fU) subangular, moderately sorted, very slightly calcareous, argillaceous with 20-30% silty clay matrix, grains quartz with 5-10% glauconite, 5-10% dark lithics, trace fine white mica. Visual porosity nil.	nil
12	574.00	claystone	3.5	siltstone	Argillaceous Siltstone , dark yellowish brown, mod. soft, with 20-30% clay matrix, 20-30% very fine (vfL) quartz sand, trace fine glauconite grains, trace fine white mica. Visual porosity nil	nil
13	572.00	sandstone	4.0	sandstone	Sandstone , glauconitic, silty, medium to dark grey brown to dark yellow brown, very fine to fine quartz, dominantly lower very fine, sub-angular, low to medium sphericity, moderate to well sorted, 20-30% quartz silt matrix, trace-5% detrital clay matrix, 30% fine to upper medium pellet glauconite, trace-1% white mica, soft to firm, slightly friable, poor visible inter-granular porosity	Patchy pale yellow fluorescence, rapid bluish-white blooming cut, faint, patchy yellowish-white residual ring
14	571.00	sandstone	4.2	siltstone	Sandstone , silty, dark yellow brown to dark grey brown, very fine quartz, sub-angular, moderate sorting, 30-40% quartz silt matrix, 5% detrital clay matrix, 10-15% fine to medium pellet glauconite and glauconite patches, trace white mica, trace carbonaceous grains, soft, nil to poor visible inter-granular porosity	Even, fair pale yellow fluorescence, Slow, poor bluish-white cut, faint, patchy yellowish-white residual ring
15	569.00	sandstone	3.8	sandstone	Sandstone , glauconitic, dark grey brown to dark yellowish brown, very fine to fine, dominantly very fine, sub-angular, low to medium sphericity, moderate to well sorted, 10-20% quartz silt matrix, grading to Silty Sandstone, 3-5% detrital clay matrix, 15-20% pellet glauconite and glauconite patches, 1-2% white mica, trace carbonaceous grains and/or lithic grains, soft, poor visible inter-granular porosity.	Patchy, bright pale yellow fluorescence, Slow, bluish-white blooming cut, faint, patchy yellowish-white residual ring
16	568.50	sandstone	3.6	sandstone	Sandstone , glauconitic, silty, dark yellowish brown to dark brown, very fine quartz, sub-angular, low to medium sphericity, moderate sorting, 30% quartz silt matrix, 5% detrital clay matrix, 15-20% fine to medium pellet glauconite, grading to Silty Sandstone, trace white mica, soft to firm, slightly friable in part, poor visible inter-granular porosity	Patchy, pale yellow sample fluorescence, slow, bluish-white streaming cut, bright, solid yellowish-white residual ring.
17	567.30	claystone	3.0	sandstone	Sandstone , glauconitic, silty, pale to dark yellowish brown and grey orange, quartz silt to fine quartz, dominantly very fine, sub-angular, low to medium sphericity, moderate to well sorted, common to abundant cementation(?), 20% quartz silt matrix, trace-5% detrital clay matrix, 15-20% coarse patchy and pellet glauconite, trace fine mica, firm to hard, nil to very poor visible porosity.	Patchy pale yellow fluorescence, slow, bluish-white blooming cut, faint, solid yellowish-white residual ring.

SWC Description Sheet

SWC NO.	DEPTH (mRT)	Predicted Lithology	REC (cm)	Actual Lithology	DESCRIPTIONS	Hydrocarbon Show
18	566.00	claystone	5.0	sandstone	Siltstone , dark grey brown to brown black, quartz silt to very fine quartz, 10-20% detrital clay matrix, grading to Argillaceous Siltstone, slightly arenaceous with 10% very fine quartz, 10-15% glauconite patches, trace-1% white mica, soft, nil to very poor visible porosity	Dull to fair, even, pale yellow fluorescence, slow, bluish-white streaming cut, fair, patchy yellowish-white residual ring
19	563.00	sandstone	3.5	sandstone	Siltstone , dark brown grey to brown black, quartz silt to very fine quartz, 10-20% detrital clay matrix, grading to Argillaceous Siltstone, slightly arenaceous with 10-20% very fine quartz, grading to Sandy Siltstone, 5% glauconite patches, trace-1% white mica, soft, nil to very poor visible porosity	Dull, even pale yellow fluorescence, rapid bluish-white streaming cut, poor, pale yellow residual ring.
20	561.30	sandstone	4.1	siltstone	Siltstone , argillaceous, dark brownish grey, soft, friable, non-calcareous, 20-30% detrital clay matrix, 10-20% very fine quartz, 3-5% medium to coarse glauconite pellets and diffuse glauconite patches, trace very fine white mica, soft, nil to poor visible inter-granular porosity	nil
21	560.00	sandstone	5.0	sandstone	Sandstone , argillaceous, silty, dark yellowish brown to brown black, quartz silt to very fine quartz, sub-angular, low sphericity, poor to moderate sorting, 30% detrital clay matrix, 20% quartz silt matrix, trace disseminated pyrite, trace-1% white mica., trace -1% pelletal glauconite, soft, poor visible inter-granular porosity	Faint, patchy pale yellow fluorescence, slow, very poor bluish-white fluorescence, poor, pale yellow residual ring.
22	558.50	sandstone	5.0	sandstone	Sandstone , silty, argillaceous, dark brownish grey, quartz silt to very fine quartz, sub-angular to sub-rounded, moderately well sorted, trace-5% micritic clay, 20% detrital clay matrix, trace-5% medium to coarse dark green glauconite patches, trace white mica, soft, very poor visible porosity	nil
23	555.90	claystone	4.5	claystone	Claystone , "pisolithic", pale yellowish brown to moderate brown, light grey, soft, diffusely laminated, slightly calcareous, 20% well-rounded, medium to coarse dark brown, well-rounded fine-grained lithic grains, generally firm, some soft, apparently weathered. Common reddish-brown areas which may be oxidized.	5-10% patchy dull pale yellow direct fluorescence. Solvent fluorescence not checked
24	547.00	calcarenite	4.2	calcilitute	Calcilitute , medium light grey - greenish grey, mod soft, massive, with 5% medium to coarse glauconite, trace forams, trace ?shell fragments. Visual porosity nil	nil
25	538.00	calcarenite	5.0	calcilitute	Calcilitute , medium light grey, mod soft, massive, with common forams, trace ?shell fragments. Visual porosity nil	nil

APPENDIX 3

SIDEWALL CORE PHOTOGRAPHY

(By Core Laboratories Australia Pty Ltd)

BASS STRAIT OIL COMPANY LTD

MOBY-1

*Sidewall Core Photography
UV & White Light*



Core Lab
RESERVOIR OPTIMIZATION

November 2004

PRP-04074

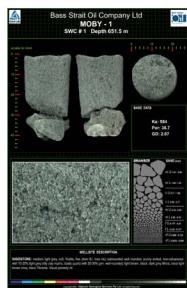
Digicore Geological Services Pty Ltd



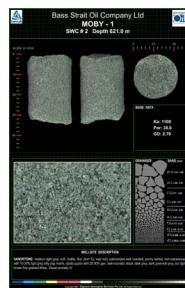
MOBY - 1

IMAGE OVERVIEW - WHITE LIGHT

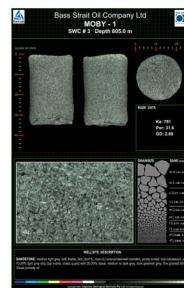
Sidewall Core



SWC-01_Moby-1.jpg



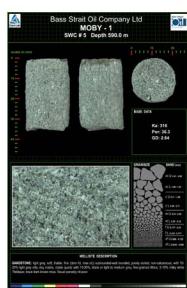
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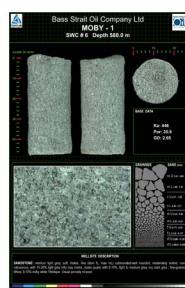
SWC-03_Moby-1.jpg



SWC-04_Moby-1.jpg



SWC-05_Moby-1.jpg



SWC-06_Moby-1.jpg



SWC-07_Moby-1.jpg



SWC-08_Moby-1.jpg



SWC-09_Moby-1.jpg



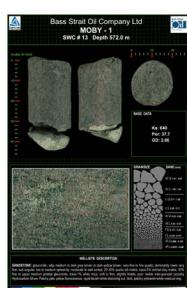
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SWC-11_Moby-1.jpg



SWC-12_Moby-1.jpg



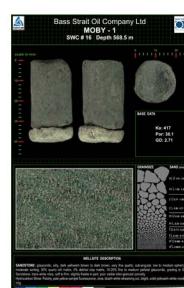
SWC-13_Moby-1.jpg



SWC-14_Moby-1.jpg



SWC-15_Moby-1.jpg



SWC-16_Moby-1.jpg



SWC-17_Moby-1.jpg



SWC-18_Moby-1.jpg



SWC-19_Moby-1.jpg



SWC-20_Moby-1.jpg

MOBY - 1

IMAGE OVERVIEW - WHITE LIGHT

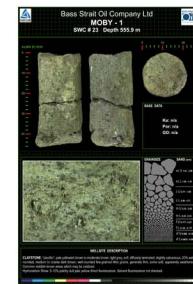
Sidewall Core



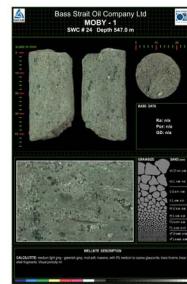
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SWC-22_Moby-1.jpg



SWC-23_Moby-1.jpg

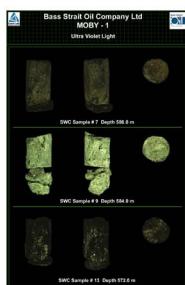


SWC-24_Moby-1.jpg

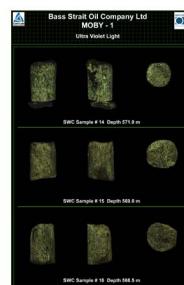


SWC-25_Moby-1.jpg

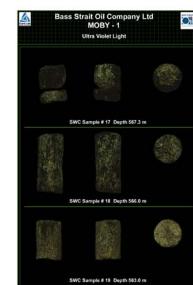
ULTRA VIOLET LIGHT



SWC_07-09-13_UV.jpg



SWC_14-15-16_UV.jpg



SWC_17-18-19_UV.jpg



SWC_21-23_UV.jpg

Bass Strait Oil Company Ltd

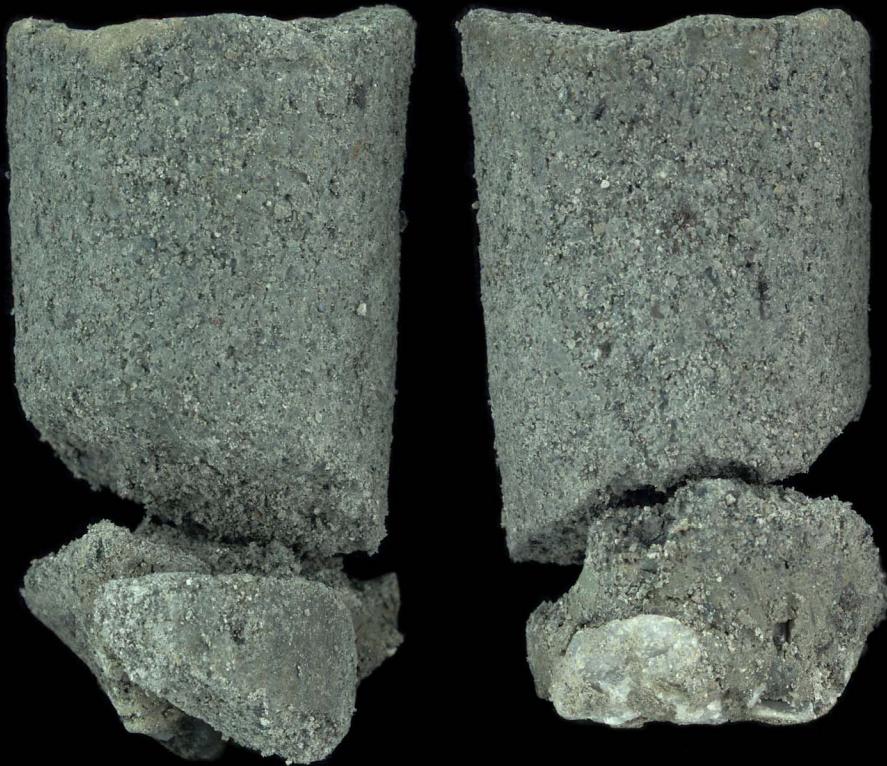
MOBY - 1

SWC # 1 Depth 651.5 m

scale in mm

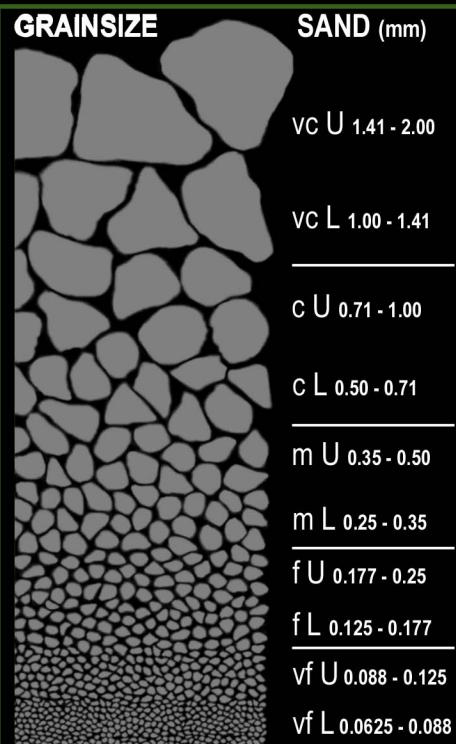
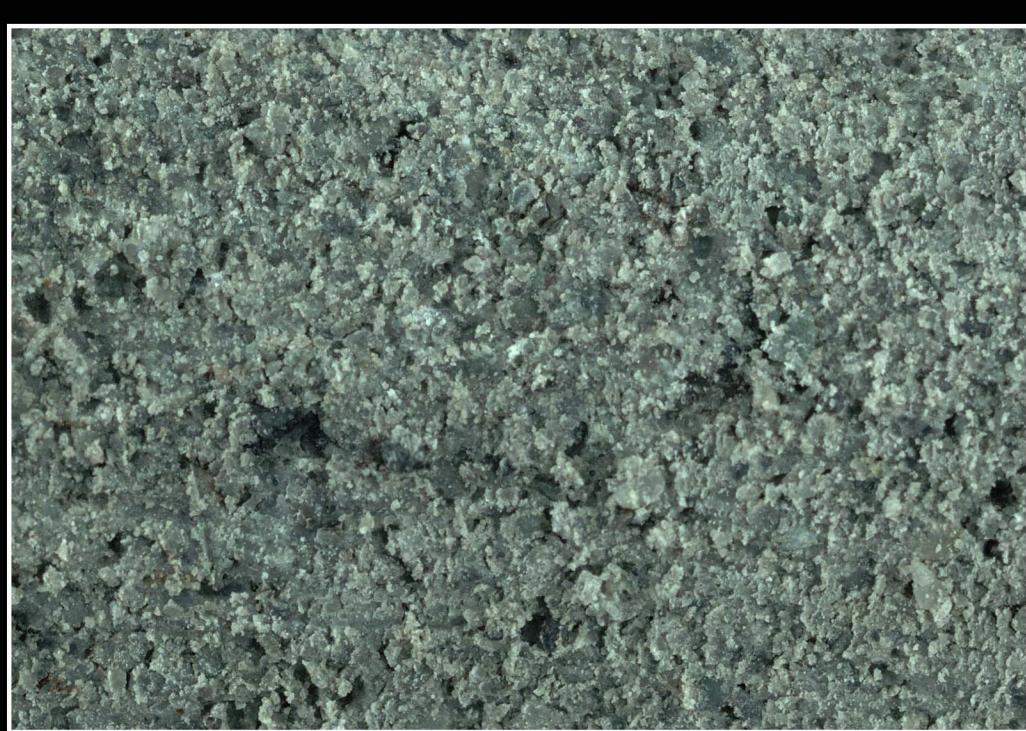
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BASE DATA

Ka: 584
Por: 36.7
GD: 2.67



WELLSITE DESCRIPTION

SANDSTONE: medium light grey, soft, friable, fine (dom fU, max mL) subrounded-well rounded, poorly sorted, non-calcareous, with 10-20% light grey silty clay matrix, clasts quartz with 20-30% gen. well-rounded, light brown, black, dark grey lithics, trace light brown mica, trace ?forams. Visual porosity nil.

Bass Strait Oil Company Ltd

MOBY - 1

SWC # 2 Depth 621.0 m

scale in mm

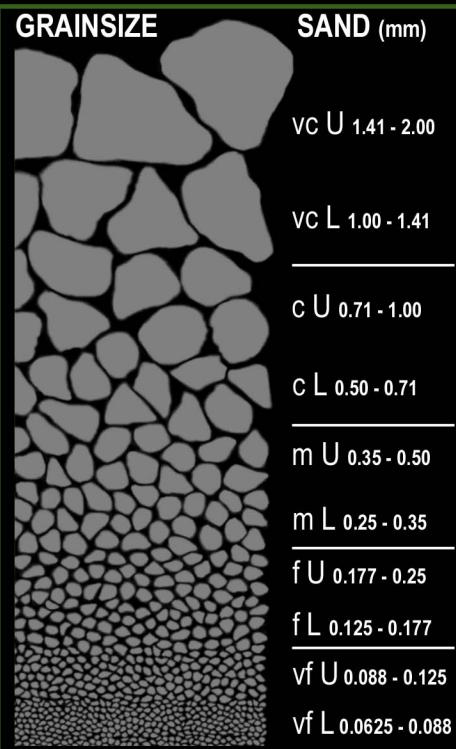
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BASE DATA

Ka: 1100
Por: 38.6
GD: 2.70



WELLSITE DESCRIPTION

SANDSTONE: medium light grey, soft, friable, fine (dom fU, max mU) subrounded-well rounded, poorly sorted, non-calcareous, with 10-20% light grey silty clay matrix, clasts quartz with 20-30% gen. well-rounded, black, dark grey, dark greenish grey, occ light brown fine-grained lithics. Visual porosity nil.

Bass Strait Oil Company Ltd

MOBY - 1

SWC # 3 Depth 605.0 m

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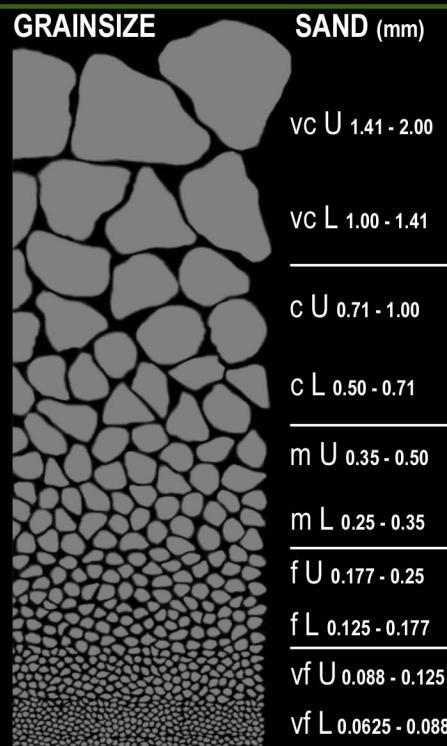


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BASE DATA

Ka: 781
Por: 31.6
GD: 2.69



WELLSITE DESCRIPTION

SANDSTONE: medium light grey, soft, friable, fine (dom fL, max cL) subrounded-well rounded, poorly sorted, non-calcareous, with 10-20% light grey silty clay matrix, clasts quartz with 20-30%, black, medium to dark grey, dark greenish grey, fine grained lithics. Visual porosity nil.



Bass Strait Oil Company Ltd

MOBY - 1

SWC # 4 Depth 597.5 m

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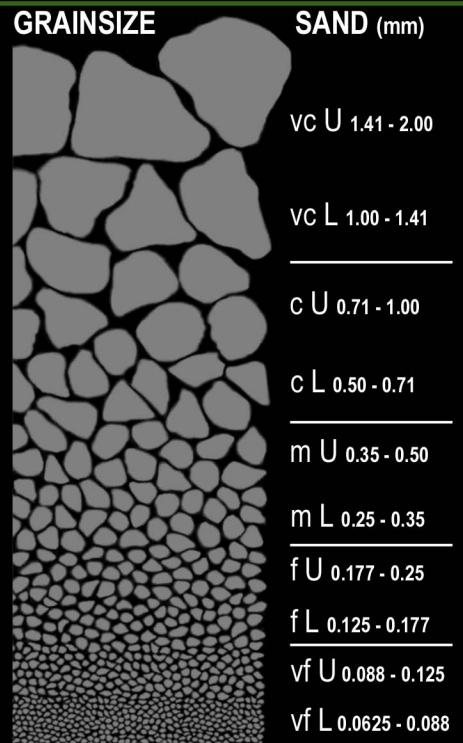


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BASE DATA

Ka: 1050
Por: 35.8
GD: 2.67



WELLSITE DESCRIPTION

SANDSTONE: medium light grey, soft, friable, fine (dom fL, max cL) subrounded-well rounded, poorly sorted, non-calcareous, with 10-20% light grey silty clay matrix, clasts quartz with 10-20%, black, medium to dark grey, dark greenish grey, fine grained lithics. Rare dark brown mica. Visual porosity nil-poor.

Bass Strait Oil Company Ltd

MOBY - 1

SWC # 5 Depth 590.0 m

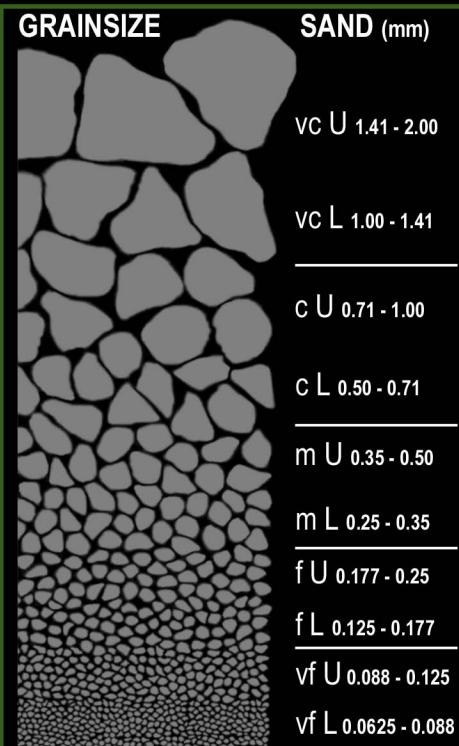
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BASE DATA

Ka: 316
Por: 36.3
GD: 2.64



WELLSITE DESCRIPTION

SANDSTONE: light grey, soft, friable, fine (dom fU, max cU) subrounded-well rounded, poorly sorted, non-calcareous, with 10-20% light grey silty clay matrix, clasts quartz with 10-20%, black or light to medium grey, fine-grained lithics, 5-10% milky white ?feldspar, trace dark brown mica. Visual porosity nil-poor.

Bass Strait Oil Company Ltd

MOBY - 1

SWC # 6 Depth 588.0 m

scale in mm

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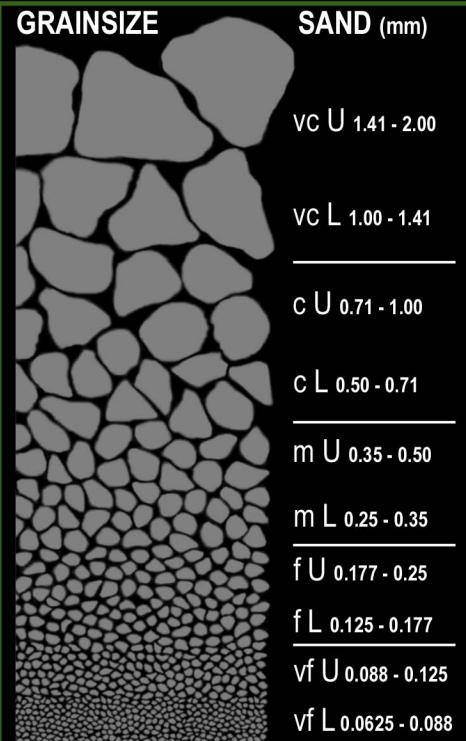


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BASE DATA

Ka: 446
Por: 35.9
GD: 2.65



WELLSITE DESCRIPTION

SANDSTONE: medium light grey, soft, friable, fine (dom fL, max mL) subrounded-well rounded, moderately sorted, non-calcareous, with 10-20% light grey silty clay matrix, clasts quartz with 5-10%, light to medium grey, occ dark grey, fine-grained lithics, 5-10% milky white ?feldspar. Visual porosity nil-poor.

Bass Strait Oil Company Ltd

MOBY - 1

SWC # 7 Depth 586.0 m

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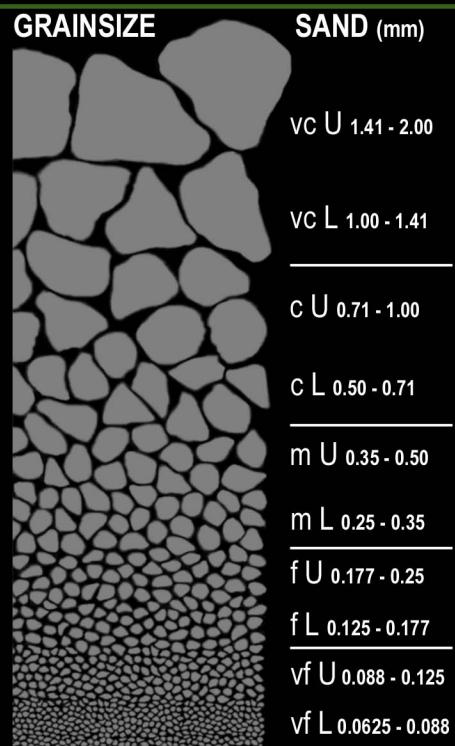


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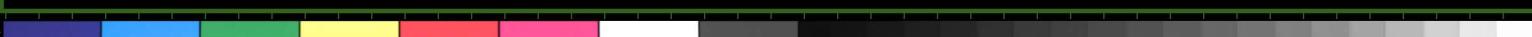
Ka: 822
Por: 38.9
GD: 2.72



WELLSITE DESCRIPTION

SANDSTONE: quartzose, medium light grey, soft, friable, very fine to fine, dominantly upper very fine, sub-angular, low to medium sphericity, moderate to well sorted, <5% quartz silt matrix, 3% black and dull orange lithic grains and/or carbonaceous grains, trace-1% white mica, good visible inter-granular porosity.

Hydrocarbon Show: Fair, even yellowish-white fluorescence, fast bluish-white blooming cut. Solid yellowish-white residual ring.



Bass Strait Oil Company Ltd

MOBY - 1

SWC # 8 Depth 585.0 m

scale in mm

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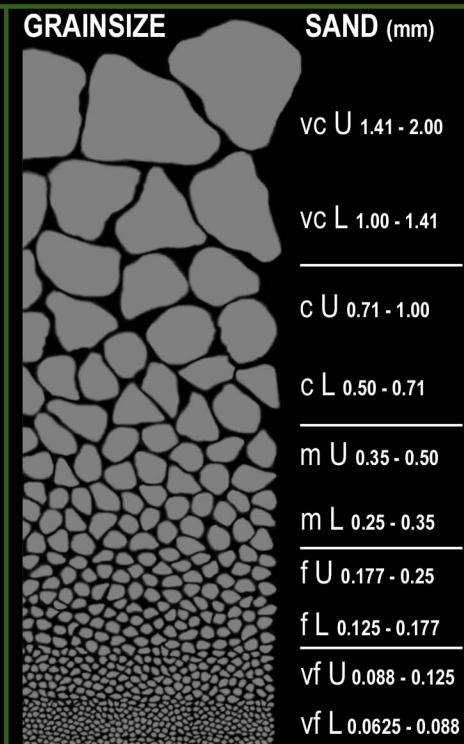
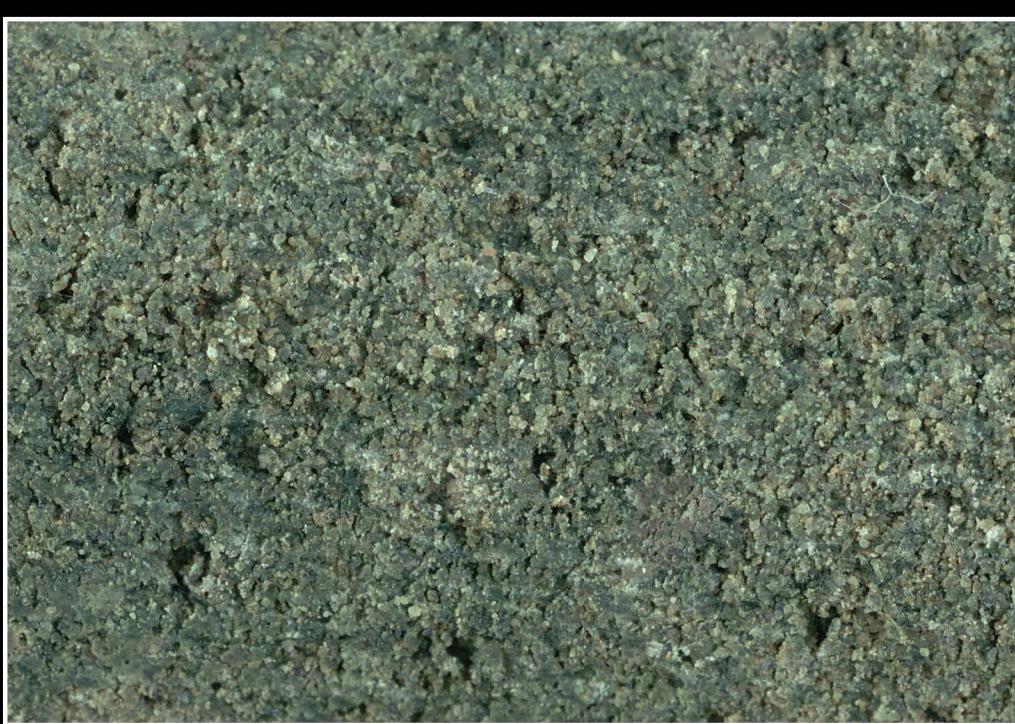


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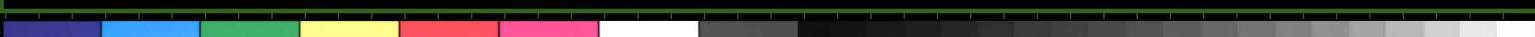
BASE DATA

Ka: 300
Por: 36.1
GD: 2.95



WELLSITE DESCRIPTION

SANDSTONE: medium dark grey, soft, very fine-fine (dom vfU, max vcL), subangular to subrounded poorly sorted, very slightly calcareous, with 20-30% clay matrix grains quartz with trace lithics, quartz grains, occ medium to very coarse subrounded quartz grains, trace very fine black-dark grey, dark brown, orange lithics, trace fine carbonaceous fragments, common fine white mica. Visual porosity nil.



Bass Strait Oil Company Ltd

MOBY - 1

SWC # 9 Depth 584.0 m

scale in mm

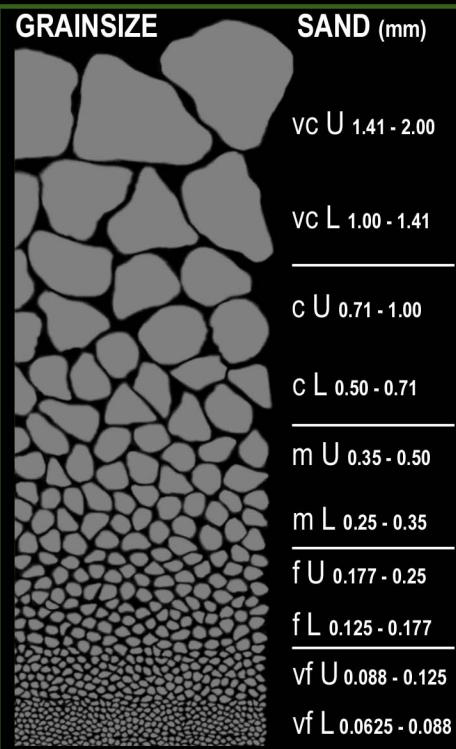
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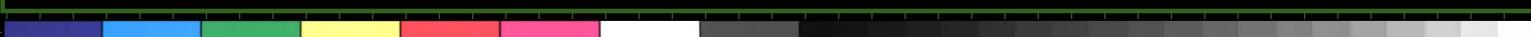
BASE DATA

Ka: 415
Por: 38.1
GD: 2.75



WELLSITE DESCRIPTION

SANDSTONE: silty, medium grey-brownish grey, very fine to fine, dominantly lower very fine, sub-angular, low to medium sphericity, moderate sorting, 30% quartz silt matrix, trace-5% detrital clay matrix, trace-2% lithic grains, trace carbonaceous grains, 1-2% greenish grains (chlorite or glauconite?), trace white mica, soft to firm, poor visible inter-granular porosity.
Hydrocarbon Show: Fair, patch pale gold fluorescence, rapid yellowish-white streaming cut. Solid bluish-white residual ring.



Bass Strait Oil Company Ltd

MOBY - 1

SWC # 10 Depth 580.0 m

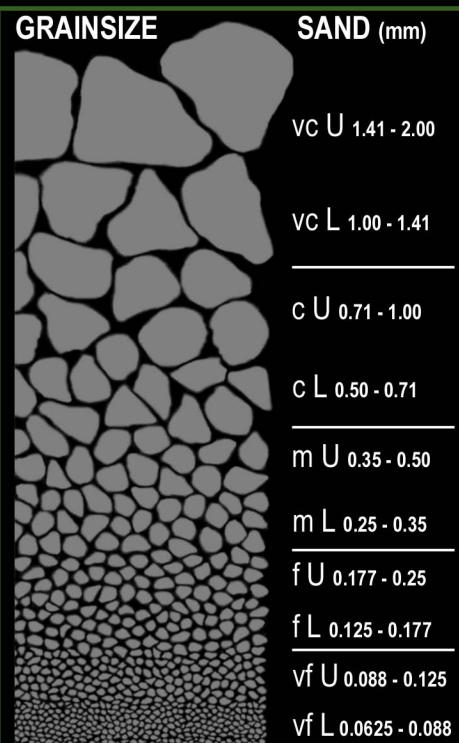
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BASE DATA

Ka: 1210
Por: 33.3
GD: 2.72



WELLSITE DESCRIPTION

SILTSTONE: dark brownish grey, moderately soft, argillaceous, with trace calcareous cement, 10-20% clay matrix; 10-20% very fine quartz sand, trace very fine white mica. Visual porosity nil.

Bass Strait Oil Company Ltd

MOBY - 1

SWC # 11 Depth 575.7 m

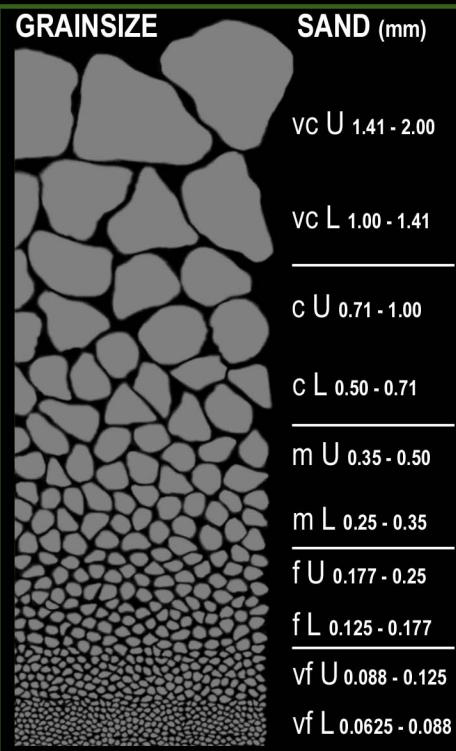
scale in mm

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BASE DATA

Ka: 176
Por: 34.3
GD: 2.64



WELLSITE DESCRIPTION

SANDSTONE: mottled brownish grey and dark green, mod. soft, very fine (dom vFL, max fU) subangular, moderately sorted, very slightly calcareous, argillaceous with 20-30% silty clay matrix, grains quartz with 5-10% glauconite, 5-10% dark lithics, trace fine white mica. Visual porosity nil.

Bass Strait Oil Company Ltd

MOBY - 1

SWC # 12 Depth 574.0 m

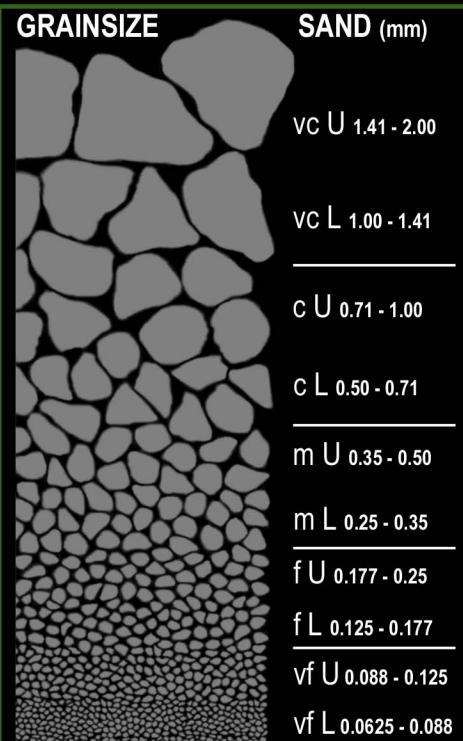
scale in mm

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BASE DATA

Ka: 1240
Por: 35.9
GD: 2.67



WELLSITE DESCRIPTION

ARGILLACEOUS SILTSTONE: dark yellowish brown, mod. soft, with 20-30% clay matrix, 20-30% very fine (vfL) quartz sand, trace fine glauconite grains, trace fine white mica. Visual porosity nil

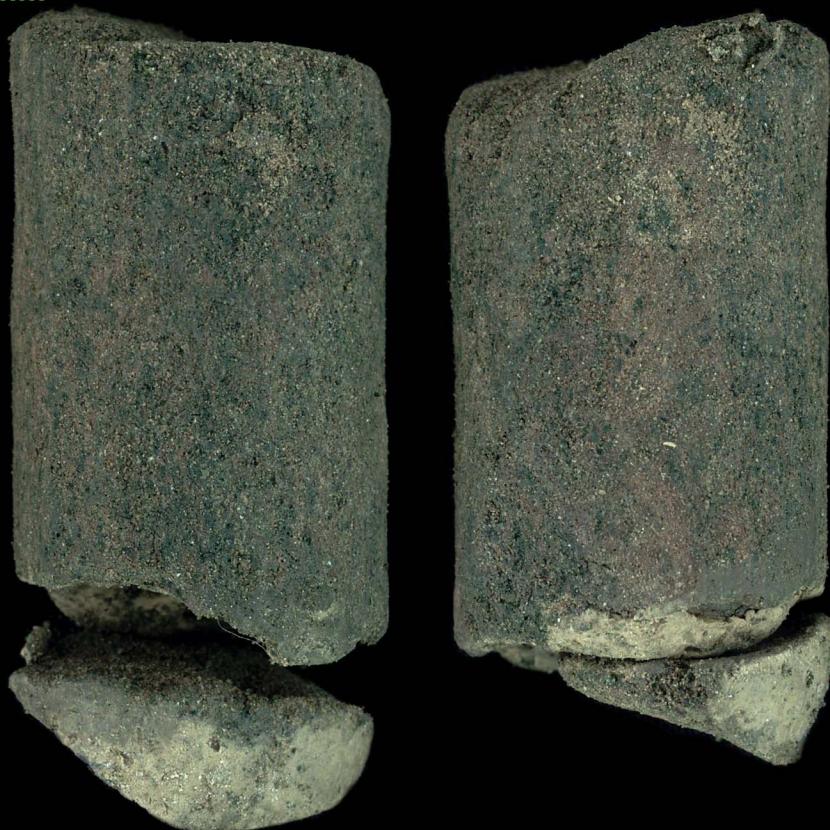
Bass Strait Oil Company Ltd

MOBY - 1

SWC # 13 Depth 572.0 m

scale in mm

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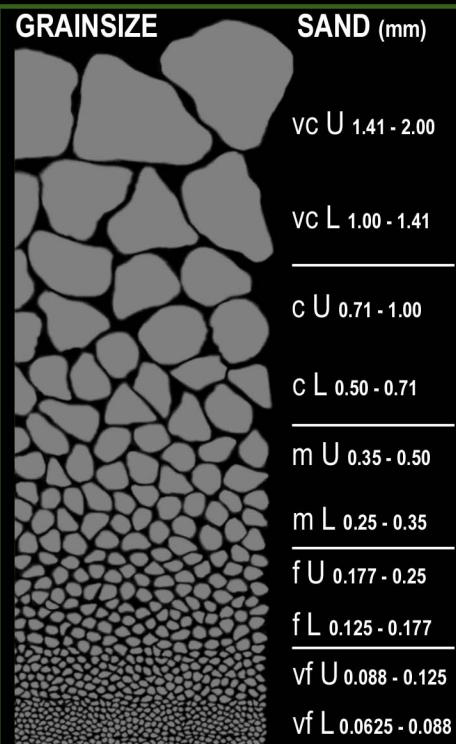


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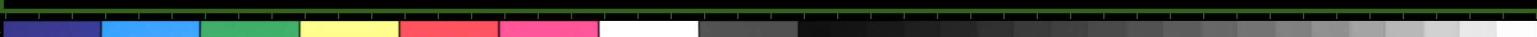
BASE DATA

Ka: 640
Por: 37.7
GD: 2.86



WELLSITE DESCRIPTION

SANDSTONE: glauconitic, silty, medium to dark grey brown to dark yellow brown, very fine to fine quartz, dominantly lower very fine, sub-angular, low to medium sphericity, moderate to well sorted, 20-30% quartz silt matrix, trace-5% detrital clay matrix, 30% fine to upper medium pelletal glauconite, trace-1% white mica, soft to firm, slightly friable, poor visible inter-granular porosity. Hydrocarbon Show: Patchy pale yellow fluorescence, rapid bluish-white blooming cut, faint, patchy yellowish-white residual ring.



Bass Strait Oil Company Ltd

MOBY - 1

SWC # 14 Depth 571.0 m

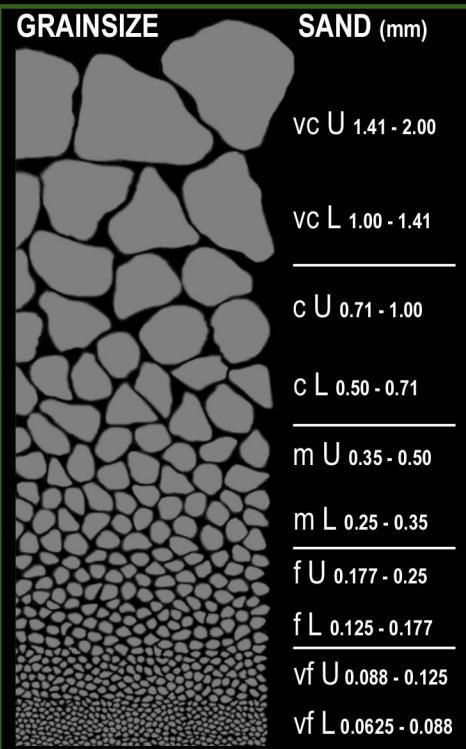
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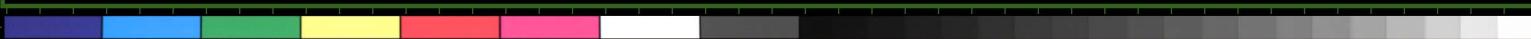
Ka: 232
Por: 39.2
GD: 2.76



WELLSITE DESCRIPTION

SANDSTONE: silty, dark yellow brown to dark grey brown, very fine quartz, sub-angular, moderate sorting, 30-40% quartz silt matrix, 5% detrital clay matrix, 10-15% fine to medium pelletal glauconite and glauconite patches, trace white mica, trace carbonaceous grains, soft, nil to poor visible inter-granular porosity.

Hydrocarbon Show: Even, fair pale yellow fluorescence, Slow, poor bluish-white cut, faint, patchy yellowish-white residual ring.



Bass Strait Oil Company Ltd

MOBY - 1

SWC # 15 Depth 569.0 m

scale in mm

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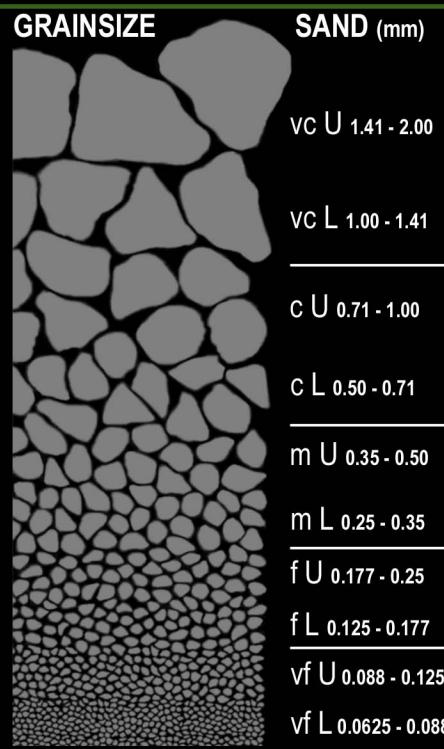


0 10 20



BASE DATA

Ka: 102
Por: 39.2
GD: 2.68



WELLSITE DESCRIPTION

SANDSTONE: glauconitic, dark grey brown to dark yellowish brown, very fine to fine, dominantly very fine, sub-angular, low to medium sphericity, moderate to well sorted, 10-20% quartz silt matrix, grading to Silty Sandstone, 3-5% detrital clay matrix, 15-20% pelletal glauconite and glauconite patches, 1-2% white mica, trace carbonaceous grains and/or lithic grains, soft, poor visible inter-granular porosity.

Hydrocarbon Show: Patchy, bright pale yellow fluorescence, Slow, bluish-white blooming cut, faint, patchy yellowish-white residual ring.

Bass Strait Oil Company Ltd

MOBY - 1

SWC # 16 Depth 568.5 m

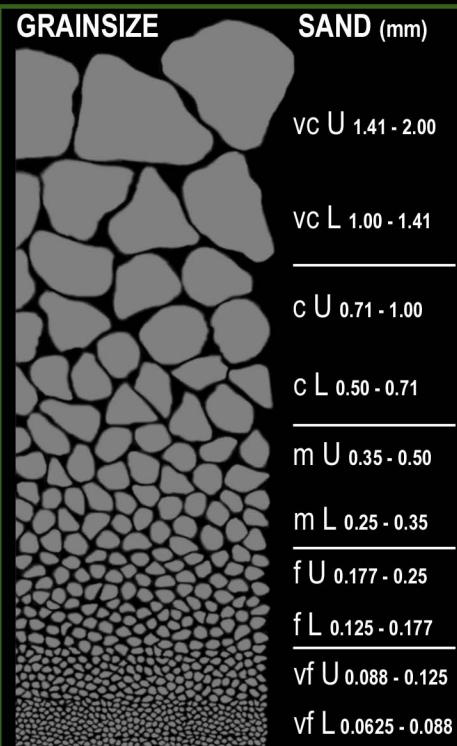
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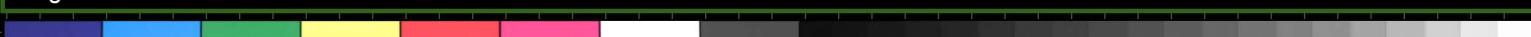
BASE DATA

Ka: 417
Por: 38.1
GD: 2.71



WELLSITE DESCRIPTION

SANDSTONE: glauconitic, silty, dark yellowish brown to dark brown, very fine quartz, sub-angular, low to medium sphericity, moderate sorting, 30% quartz silt matrix, 5% detrital clay matrix, 15-20% fine to medium pelletal glauconite, grading to Silty Sandstone, trace white mica, soft to firm, slightly friable in part, poor visible inter-granular porosity.
Hydrocarbon Show: Patchy, pale yellow sample fluorescence, slow, bluish-white streaming cut, bright, solid yellowish-white residual ring.



Bass Strait Oil Company Ltd

MOBY - 1

SWC # 17 Depth 567.3 m

scale in mm

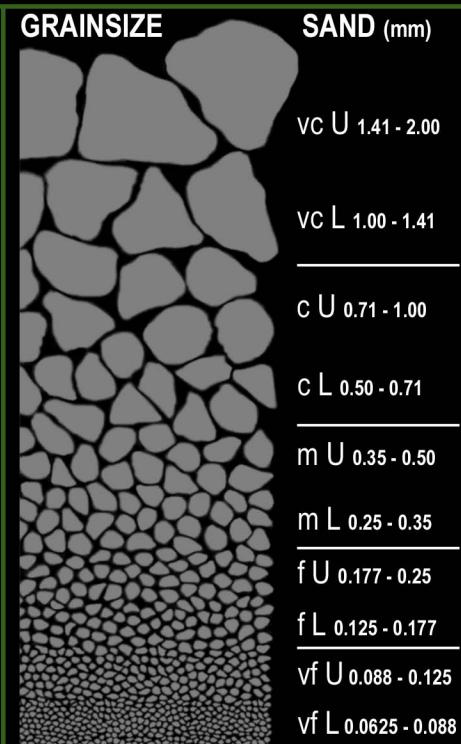
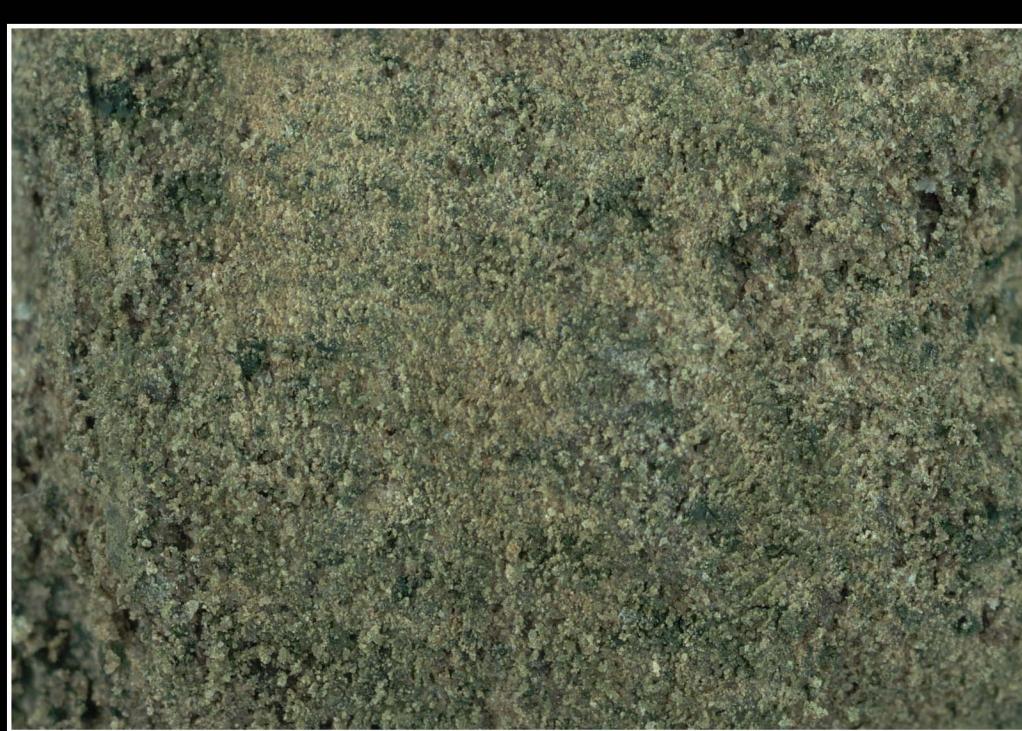
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BASE DATA

Ka: n/a
Por: n/a
GD: n/a



WELLSITE DESCRIPTION

SANDSTONE: glauconitic, silty, pale to dark yellowish brown and grey orange, quartz silt to fine quartz, dominantly very fine, sub-angular, low to medium sphericity, moderate to well sorted, common to abundant cementation(?), 20% quartz silt matrix, trace-5% detrital clay matrix, 15-20% coarse patchy and pelletal glauconite, trace fine mica, firm to hard, nil to very poor visible porosity. Hydrocarbon Show: Patchy pale yellow fluorescence, slow, bluish-white blooming cut, faint, solid yellowish-white residual ring.

Bass Strait Oil Company Ltd

MOBY - 1

SWC # 18 Depth 566.0 m

scale in mm

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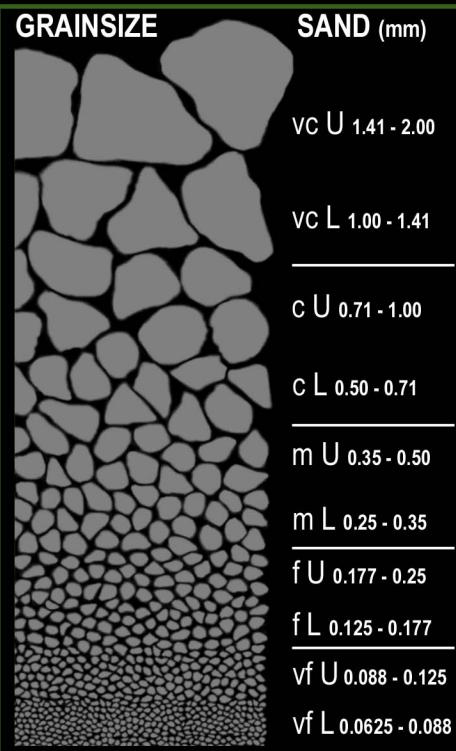


0 10 20



BASE DATA

Ka: 267
Por: 38.9
GD: 2.73



WELLSITE DESCRIPTION

SILTSTONE: dark grey brown to brown black, quartz silt to very fine quartz, 10-20% detrital clay matrix, grading to Argillaceous Siltstone, slightly arenaceous with 10% very fine quartz, 10-15% glauconite patches, trace-1% white mica, soft, nil to very poor visible porosity.

Hydrocarbon Show: Dull to fair, even, pale yellow fluorescence, slow, bluish-white streaming cut, fair, patchy yellowish white residual ring.



Bass Strait Oil Company Ltd

MOBY - 1

SWC # 19 Depth 563.0 m

scale in mm

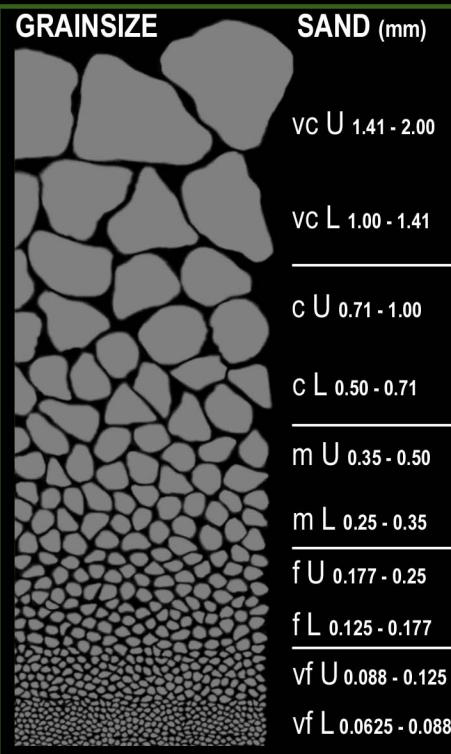
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BASE DATA

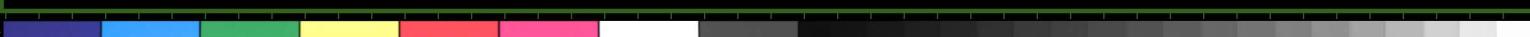
Ka: 140
Por: 36.6
GD: 2.77



WELLSITE DESCRIPTION

SILTSTONE: dark brown grey to brown black, quartz silt to very fine quartz, 10-20% detrital clay matrix, grading to Argillaceous Siltstone, slightly arenaceous with 10-20% very fine quartz, grading to Sandy Siltstone, 5% glauconite patches, trace-1% white mica, soft, nil to very poor visible porosity.

Hydrocarbon Show: Dull, even pale yellow fluorescence, rapid bluish-white streaming cut, poor, pale yellow residual ring.



Bass Strait Oil Company Ltd

MOBY - 1

SWC # 20 Depth 561.3 m

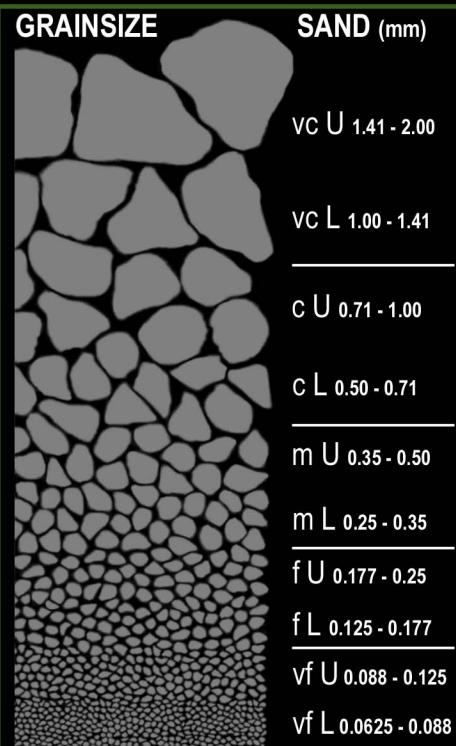
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BASE DATA

Ka: 180
Por: 35.5
GD: 2.67



WELLSITE DESCRIPTION

SILTSTONE: argillaceous, dark brownish grey, soft, friable, non-calcareous, 20-30% detrital clay matrix, 10-20% very fine quartz, 3-5% medium to coarse glauconite pellets and diffuse glauconite patches, trace very fine white mica, soft, nil to poor visible intergranular porosity.

Bass Strait Oil Company Ltd

MOBY - 1

SWC # 21 Depth 560.0 m

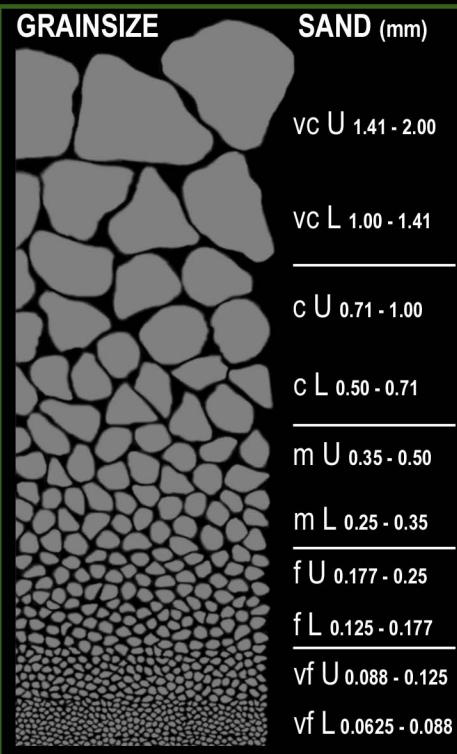
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BASE DATA

Ka: 1850
Por: 36.4
GD: 2.66



WELLSITE DESCRIPTION

SANDSTONE: argillaceous, silty, dark yellowish brown to brown black, quartz silt to very fine quartz, sub-angular, low sphericity, poor to moderate sorting, 30% detrital clay matrix, 20% quartz silt matrix, trace disseminated pyrite, trace-1% white mica, trace -1% pelletal glauconite, soft, poor visible inter-granular porosity.

Hydrocarbon Show: Faint, patchy pale yellow fluorescence, slow, very poor bluish-white fluorescence, poor, pale yellow residual ring.

Bass Strait Oil Company Ltd

MOBY - 1

SWC # 22 Depth 558.5 m

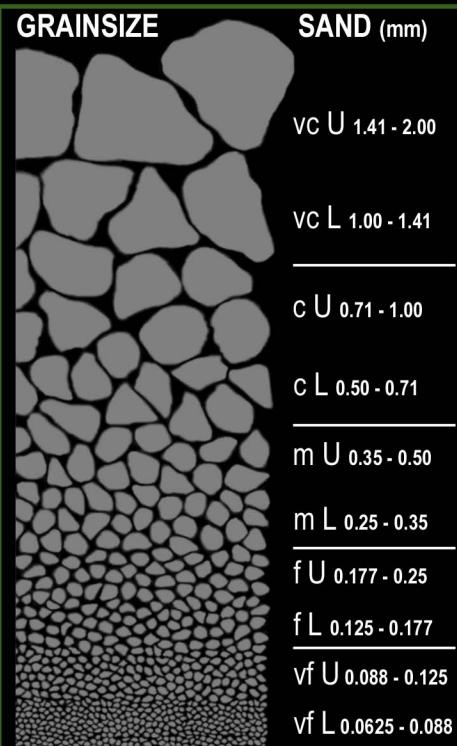
scale in mm

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BASE DATA

Ka: 247
Por: 34.2
GD: 2.67



WELLSITE DESCRIPTION

SANDSTONE: silty, argillaceous, dark brownish grey, quartz silt to very fine quartz, sub-angular to sub-rounded, moderately well sorted, trace-5% micritic clay, 20% detrital clay matrix, trace-5% medium to coarse dark green glauconite patches, trace white mica, soft, very poor visible porosity.



Bass Strait Oil Company Ltd

MOBY - 1

SWC # 23 Depth 555.9 m

scale in mm

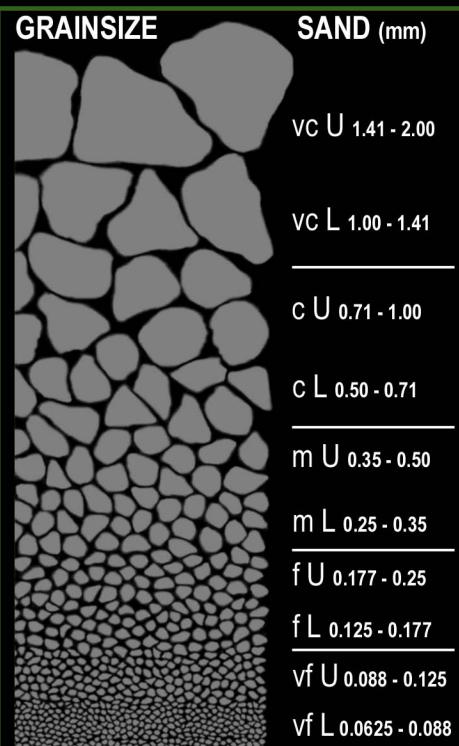
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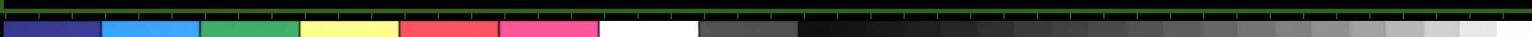
Ka: n/a
Por: n/a
GD: n/a



WELLSITE DESCRIPTION

CLAYSTONE: "pisolitic", pale yellowish brown to moderate brown, light grey, soft, diffusely laminated, slightly calcareous, 20% well-rounded, medium to coarse dark brown, well-rounded fine-grained lithic grains, generally firm, some soft, apparently weathered. Common reddish-brown areas which may be oxidized.

Hydrocarbon Show: 5-10% patchy dull pale yellow direct fluorescence. Solvent fluorescence not checked.



Bass Strait Oil Company Ltd

MOBY - 1

SWC # 24 Depth 547.0 m

scale in mm

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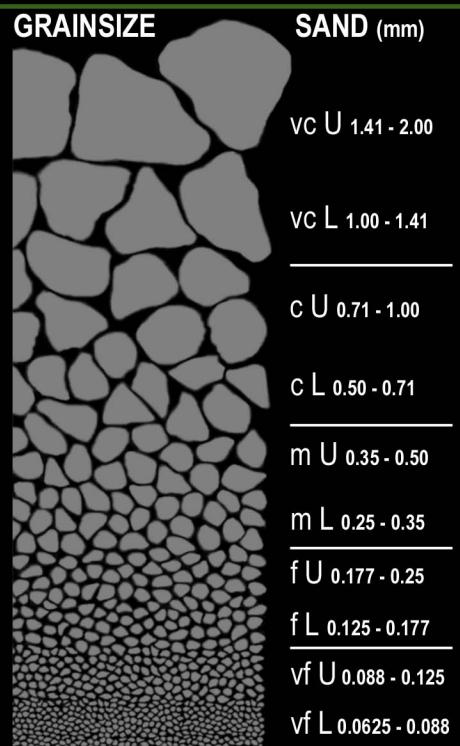


BASE DATA

Ka: n/a
Por: n/a
GD: n/a



GRAINSIZE



WELLSITE DESCRIPTION

CALCILUTITE: medium light grey - greenish grey, mod soft, massive, with 5% medium to coarse glauconite, trace forams, trace ? shell fragments. Visual porosity nil.

Bass Strait Oil Company Ltd

MOBY - 1

SWC # 25 Depth 538.0 m

scale in mm

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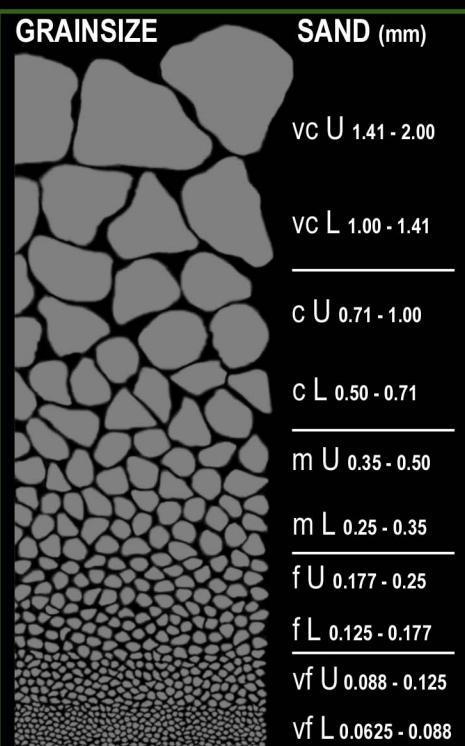
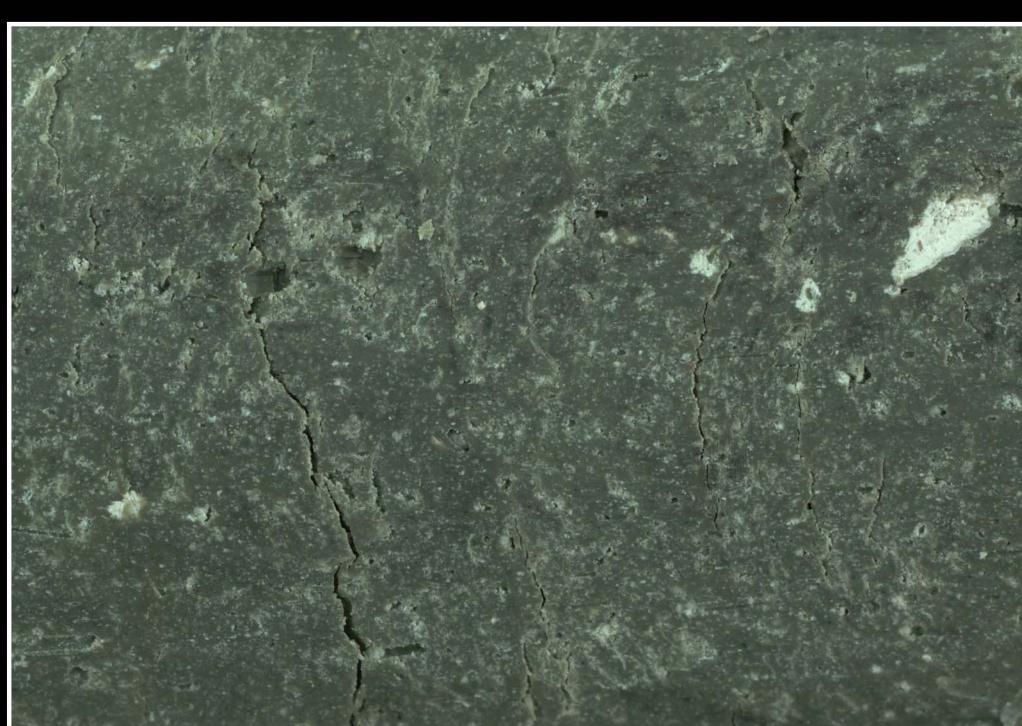


0 10 20



BASE DATA

Ka: n/a
Por: n/a
GD: n/a



WELLSITE DESCRIPTION

CALCILUTITE: medium light grey, mod soft, massive, with common forams, trace ?shell fragments. Visual porosity nil.

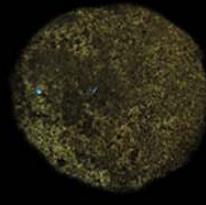
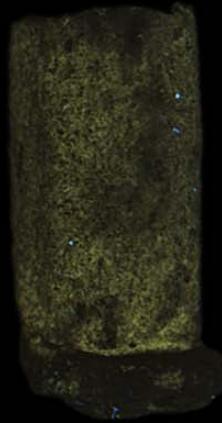
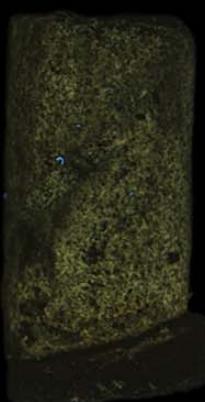


Bass Strait Oil Company Ltd

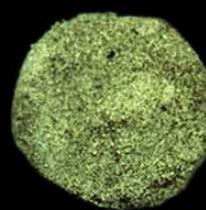
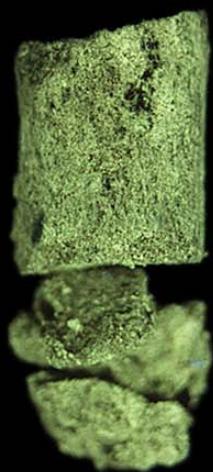
MOBY - 1



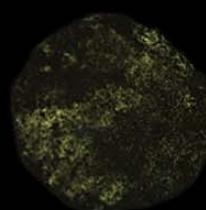
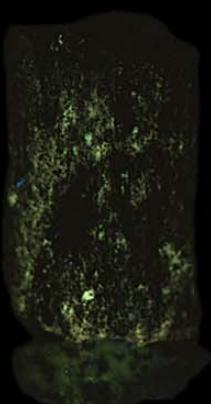
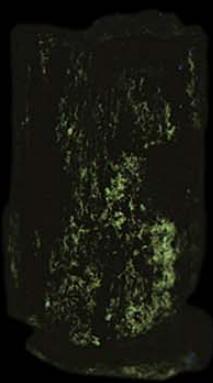
Ultra Violet Light



SWC Sample # 7 Depth 586.0 m



SWC Sample # 9 Depth 584.0 m



SWC Sample # 13 Depth 572.0 m

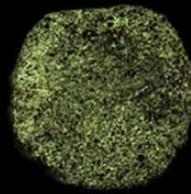
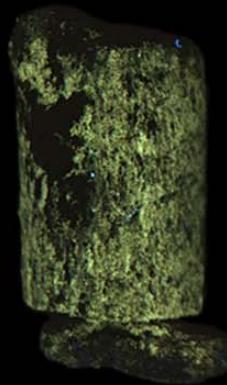
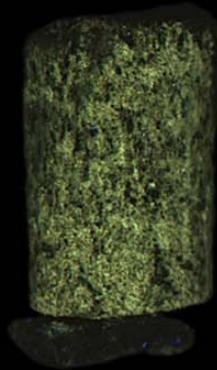


Bass Strait Oil Company Ltd

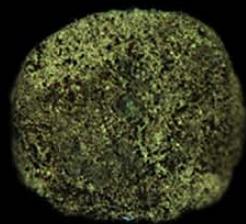
MOBY - 1



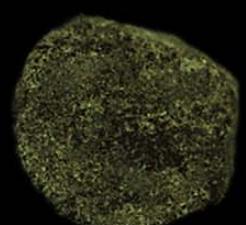
Ultra Violet Light



SWC Sample # 14 Depth 571.0 m



SWC Sample # 15 Depth 569.0 m



SWC Sample # 16 Depth 568.5 m

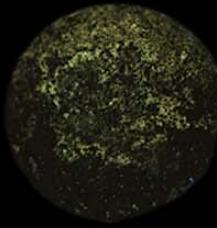
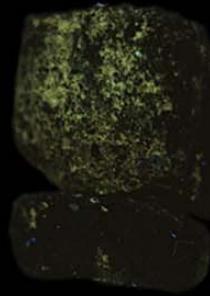
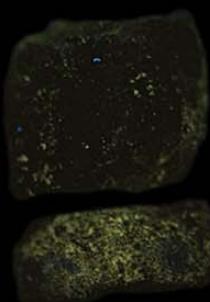


Bass Strait Oil Company Ltd

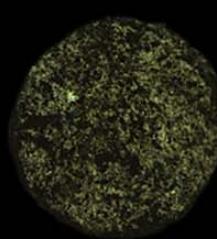
MOBY - 1



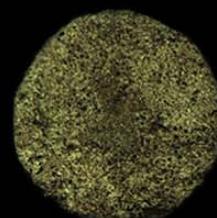
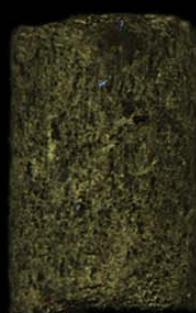
Ultra Violet Light



SWC Sample # 17 Depth 567.3 m



SWC Sample # 18 Depth 566.0 m



SWC Sample # 19 Depth 563.0 m

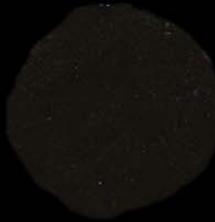
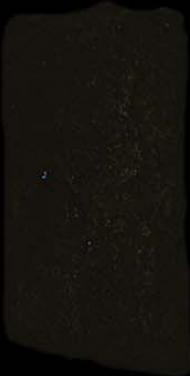


Bass Strait Oil Company Ltd

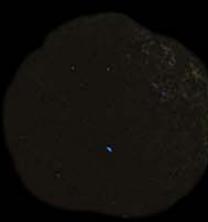
MOBY - 1



Ultra Violet Light



SWC Sample # 21 Depth 560.0 m



SWC Sample # 23 Depth 555.9 m

APPENDIX 4

CORE ANALYSIS REPORT

(By Core Laboratories Australia Pty Ltd)



CORE LABORATORIES AUSTRALIA PTY LTD

447-449 Belmont Ave, Kewdale, Perth WA 6105
Tel : (61 8) 9353 3944 Fax : (61 8) 9353 1369
Email : corelab.australia@corelab.com

Routine Core Analysis **Well Moby -1** **Offshore** **Australia**

Prepared for
BASS STRAIT OIL COMPANY Ltd

January 2005

File: PRP-04074

Rock Properties
Core Laboratories
Perth
Australia

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, (all errors and omissions excepted); but Core Laboratories and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil gas or other mineral well or sand in connection with which such report is used or relied upon.



CORE LABORATORIES AUSTRALIA PTY LTD

26th January 2005

Bass Strait Oil Company Ltd
C/- Labrador Petro-Management Pty Ltd
Hampden House
174 Hampden Rd.
Nedlands, WA

Attention : Mr. Bob Fisher

Subject : Routine Core Analysis
Well : Moby - 1
File : PRP-04074

Dear Bob,

Presented herein is the final report of a routine core analysis study conducted on twenty-five sidewall cores from the above well that arrived at our laboratory on the 25th October 2004.

We appreciate the opportunity to present this service to Bass Strait Oil Company Ltd. Please contact us should you require any further information or assistance.

Yours sincerely,
Core Laboratories Australia Pty Ltd

James Brown
Senior Core Analyst

ABN. 67 065 540 838

P.O Box 785 Cloverdale, WA 6105 Australia Tel : (61-8) 9353 3944 Fax : (61-8) 9353 1369
Email : corelab.australia@corelab.com

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Tabular Data

Porosity, Permeability and Grain Density	Page 4
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INTRODUCTION

One box containing twenty-five sidewall cores arrived at our laboratory on the 25th October 2004.

Services performed and presented in the report include:

- Porosity, permeability and grain density

The reported data for the above services are presented digitally on a CD-Rom.

LABORATORY PROCEDURES

Initial Inventory:

After the arrival of the sidewall cores on the 25th October 2004, they were unloaded from the box, and the depths recorded on an in-house inventory.

Sample Preparation:

After logging in, the samples were cleaned of surface mud then photographed. After photography twenty-two samples were selected for routine core analysis. The samples, due to their fragile nature were mounted in nickel sleeving with steel screens on the ends of the samples. The samples were then cleaned in toluene and methanol to remove residual hydrocarbons and salts respectively. After cleaning, the samples were dried in a convection oven, then cooled to room temperature in a desiccator, prior to analysis.

Grain Volume and Grain Density:

The weight, diameter and length of the samples were measured before they were processed through the Ultrapore™ porosimeter to determine grain volume. As a standard quality control measure, a calibration check plug was run after every ten samples. Grain density data was calculated from grain volume and sample weight data after correcting for the nickel and screens.

Permeability and Porosity:

Permeability and pore volume measurements were made at a confining stress of 400psig. Pore volume was determined in a Hassler holder at the requested confining stress. Porosity was calculated using the corrected grain and pore volumes. Porosity was calculated as follows:

$$\phi = V_p / (V_p + V_g)$$

Where : ϕ = Porosity, fraction
 V_p = Pore volume, cm³
 V_g = Grain volume, cm³

Core plug permeability was determined using the steady-state permeameter. Each sample was loaded individually into a Hassler holder, with the circumference sealed, to prevent gas bypassing, at the required confining stress. Dry air was injected through the samples at a constant pressure. The pressure differential across the length of each sample was measured, and the flow rate of the air was determined. The steady-state permeability-to-air data were calculated using Darcy's law as follows:

$$K_a = \frac{2\mu_a q_a L P_{atm}}{A(P_1 + P_2)(P_1 - P_2)}$$

Where: K_a = Permeability to air, darcies

μ_a = Gas viscosity at the mean pressure and temperature of the sample, cp

q_a = Gas volumetric flowrate at atmospheric pressure and temperature, cm³/sec

L = Sample length, cm

A = Sample cross-sectional area, cm²
P_{atm} = Atmospheric pressure, atm
P₁ = Upstream pressure, atm
P₂ = Downstream pressure, atm

POROSITY, PERMEABILITY AND GRAIN DENSITY (Ambient)

SAMPLE NUMBER	DEPTH (m)	Ambient conditions		GRAIN DENSITY (g/cc)	COMMENTS
		PERMEABILITY	POROSITY		
		Kair (md)	TOTAL (%)		
1	651.50	584	36.7	2.67	
2	621.00	1100	38.6	2.70	
3	605.00	781	31.6	2.69	
4	597.50	1050	35.8	2.67	
5	590.00	316	36.3	2.64	
6	588.00	446	35.9	2.65	
7	586.00	822	38.9	2.72	
8	585.00	300	36.1	2.95	
9	584.00	415	38.1	2.75	
10	580.00	1210	33.3	2.72	
11	575.70	176	34.3	2.64	
12	574.00	1240	35.9	2.67	
13	572.00	640	37.7	2.86	
14	571.00	232	39.2	2.76	
15	569.00	102	39.2	2.68	
16	568.50	417	38.1	2.71	
17	567.30				Sample not suitable for analysis
18	566.00	267	38.9	2.73	
19	563.00	140	36.6	2.77	
20	561.30	180	35.5	2.67	
21	560.00	1850	36.4	2.66	
22	558.50	247	34.2	2.67	
23	555.90				Not analysed
24	547.00				Not analysed
25	538.00				Not analysed

APPENDIX 5

WIRELINE LOGGING END OF WELL REPORT

(By BakerAtlas)

Baker Atlas
End of Well Report for:

BASS STRAIT OIL COMPANY

MOBY - 1

Prepared by:
Dave Thorne
Customer Service Manager
Perth, Australia
October 2004



Baker Atlas



Baker Atlas

A. HSE Performance

No Baker Atlas incidents or accidents occurred during this well.

HSE plan for this well was achieved.

All JSAs held at rig floor prior to rig up of each tool string.

B. Actual time versus technical limit comparison

Suite 1

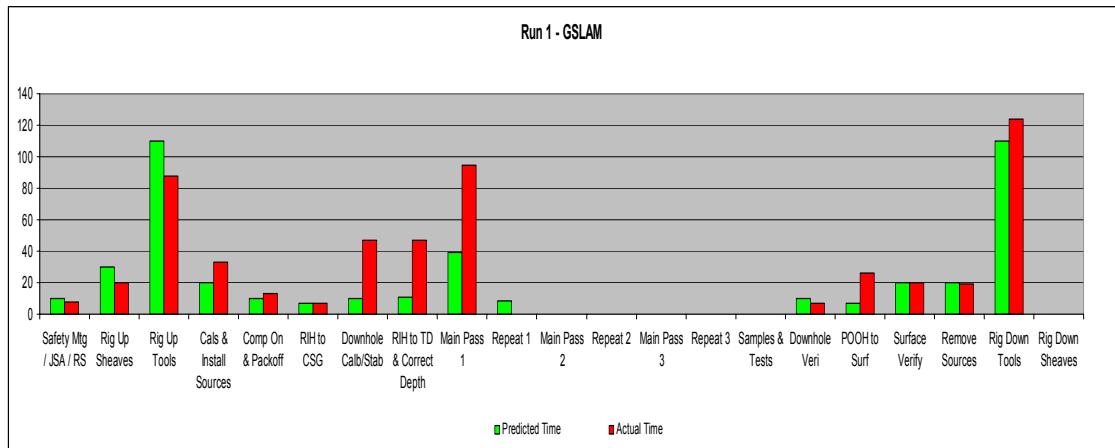
Rig Up: 12-Oct-04 @ 01:15 Rig Down: 13-Oct-04 @ 22:15

Section TD 216mm (8 1/2") hole - logs @ 659m (340mm (13 3/8") casing @ 321.8m):

Run	Logs	Tech. Limit	Actual Time	B. A. DT	Other LT	Comments
1	DLL/MLL/MAC/ZDL/CN/DSL/TTRM/DGR	7.05	9.25	0.0	0.0	No operational problems encountered.
2	RCI/TTRM/DGR	16.77	25.50	0.0	0.95	Tight formations.
3	SLR	8.67	6.50	0	0.5	Half hour lost due to crushed surface cable – swapped out with spare.
4	SWC/PFC	4.43	3.75	0	0	25 cores (100%) recovered.
Tot. Job		36.92	45.00	0.0	1.45	

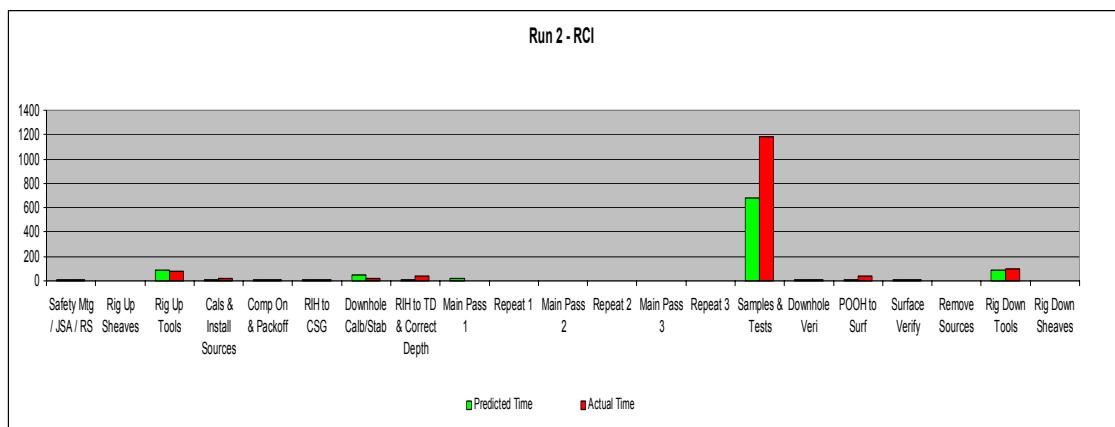
Technical Limit Calculations / Discrepancies:

- Run 1 (DLL/MLL/MAC/ZDL/CN/DSL/TTRM/DGR) – Technical limit time was calculated as 7.05 hours but made incorrect assumptions. It did not take into account the downlog and repeat section prior to the main pass. It also assumed a 300m open hole section for the main pass whereas data was recorded up to 75m.

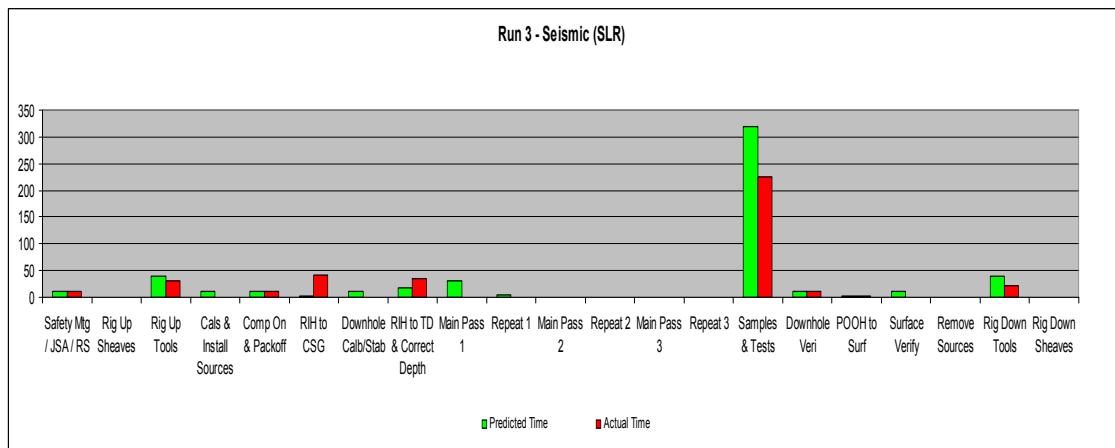


Baker Atlas

- Run 2 (RCI/TTRM/DGR) – Technical limit was calculated as 16.77 hours whereas actual time was 25.50 hours. Twenty minutes was lost during RCI rig up due to an incoming chopper that meant that no crane lifts were allowed. Ten minutes was lost due to problems with the compensator line which resulted in recompensating and correlating. Twenty seven minutes were spent waiting upon a decision from town on whether to sample or not. The main discrepancy between target and actual time is purely down to pressure and sample times. The target times assumed 10 minutes per pressure and 60 minutes per sample. However, due to the very low permeabilities encountered, an additional 500 minutes was spent obtaining pressures and samples.



- Run 3 (SLR) – Technical limit was calculated as 8.67 hours based on a 40 level survey. This limit assumed 8 minutes per level. Actual number of levels recorded was 57 plus 3 checkshot levels whilst running into the hole. Total actual survey duration was 6.5 hours which included half an hour to trace a fault to a crushed surface cable and to replace that cable. Data was acquired at a 10m spacing from 650m to 90m and average time per level was approximately 5 minutes.



Baker Atlas

- Run 4 (SWC/PFC) – Technical limit was calculated as 4.43 hours and actual time was 3.75 hours. A 100% core recovery was achieved.



C. Learning Points

- Revise technical limits for next well.
- Use cable protectors to ensure that no damage can occur from lifting operations.

D. Summary

This was a highly successful logging job with 100% Operating Efficiency. The Wellsite Performance Evaluation completed by the Wellsite Geologist stated : “A very good job performed in a difficult time-frame (short well)”.

E. Crew Members

Mario Reyes	Engineer
Peter Ristau	Engineer
Barry Read	Seismic Specialist
Allan Petrie	RCI Specialist
Scott Einam	Operator
Ernesto McCall	Operator
Adrian Garland	Operator
Orlando Cruz	Operator

OVERVIEW / SUMMARY

- Total Moby-1 operating time: 45.0 Hours
- Total Moby-1 lost time: 1.45 Hours
- Total Baker Atlas down time: 0.00 Hours
- Total wireline jobs: 1
- Total wireline runs: 4
- Total lost time incidents: 0
- Total near miss incidents: 0
- Requested log data were recorded, recovered, and presented with available tools.
- Logging crews performed in a professional and efficient manner.

APPENDIX 6

WIRELINE LOGGING WITNESS/MUD RECORD REPORT

(By Bass Strait Oil Company Ltd)



WIRELINE LOGGING WITNESS / MUD RECORD

Well	Moby-1	Suite	1
Location	632316.41mE 5789884.86mN	Witness	G Geary D MacFarlan
Datum of Measured Depth	RT	Contractor	Baker Atlas
Elevation of Datum	21.5m MSL	Engineers	M Reyes P Ristau
Driller's TD	660m	Time Record	
Loggers TD	659m	- Stop Drilling	20:30 hrs 11 October 2004
Bit Size	216 mm (8 1/2")	- Stop Circ. @ TD	21:40 hrs 11 October 2004
Last CSG Size	340mm (13 3/8")	- Start R/U	01:15 hrs 12 October 2004 (JSA)
Last CSG ID	315.3mm	- Start RIH	03:53 hrs 12 October 2004
Drillers CSG Shoe Depth	321.73m	- Finish Final POOH	21:44 hrs 13 October 2004
Loggers CSG Shoe Depth	321.5m	- Finish R/D	22:20 hrs 13 October 2004
Days Last CSG to TD	1	Hours Logging	42 hrs 27 mins
Open Hole Interval	338.5	Down Time	1 hr 36 mins
Maximum Deviation	1.1°	Lost Time	Nil
Magnetic Deviation			

Circulating Mud (Active Pit)		Logging Pill (if used)	
Mud Type	KCI-PHPA	Mud Type	
Mud Density	1.1983 g/cm3	Mud Density (SG)	
Mud Viscosity (Funnel)	55s	Mud Viscosity	
Barite Content in Mud	nil	Barite Content in Mud	
pH	9.5	pH	
Fluid Loss	5 cc/30 mins	Fluid Loss	
Chlorides, mg/l	36000	Salinity, ppm	
Solid by Volume (%)	9	Solid by Volume (%)	
Water by Volume (%)	91	Water by Volume (%)	
Glycol by Volume (%)	-	Glycol by Volume (%)	
Average S. G. of Solids	-	Average S. G. of Solids	

Run #	1	2	3	4
Logging Tool	DLL/MLL/MAC/ZDL/CN L/DSL/GR/TTRM	RCI-GR	MLR (VSP)	Sidewall Cores
Date	12 th October 2004	12/13 th October 2004	13 th October 2004	13 th October 2004
Start Rig Up	1:15 (JSA)	11:20	11:57	19:15
Time RIH Start	03:53	12:24	12:12	19:49
Time on BTM	05:45	13:22	14:11	20:38
Log Speed (min/m)	6	n/a	n/a	n/a
Time on Surface	8:02	9:53	18:19	21:44
Finish Rig Down	10:38	11:06	19:15	21:56
Log Hours	9:23	23:46	7:18	1:41
Logger's TD (m)	659	612.8	650	651
Logger's CSG Shoe (m)	321.5	-	-	-
Logged (m)	From	659	558.3	650
	To	75	612.8	90
	Interval	584	54.5	560
				113.8

Max.Temp. (°C) / Thermom. depth (mRT)	42.7°/659m	44.4°/612m	45° /650m	n/a
Time Since Circ. Stop	8 hrs 33 min	15 hrs 22 min	40 hrs 33 mins	n/a

APPENDIX 7

WIRELINE LOGGING DIARY

(By Bass Strait Oil Company Ltd)

WIRELINE LOGGING DIARY

Date/Time		Moby-1	Lost Time (minutes)	Down Time (minutes)
From	To	Comments		
Run#1 DLL/MLL/MAC/ZDL/CNL/DSL/GR/TTRM				
1:15:00 a.m (12 October 2004)	1:23	JSA at rig floor		
1:23	3:12	Rig up tools		
3:12	3:45	Surface checks, zero tool string, add 1.1m for tide correction		
3:45	3:53	Load R/A sources		
3:53	4:44	RIH , set compensator at 153.423m, casing checks		
4:44	5:18	RIH in open hole, recording downlog		
5:18	5:42	Log repeat section 655 – 550m		
5:42	5:47	RIH to TD		
5:47	7:22	Log up main pass to 75m (GR/DSI above casing shoe).		
7:22	8:02	POOH, decompensate, remove sources		
8:02	10:38	Rig down tools, SLAM tools off catwalk		
10:38	11:20	Cranes shut down due to incoming chopper		42
Run#2 RCI-GR				
11:20	12:16	Rig up RCI, surface checks		
12:16	13:15	RIH, compensate at 138.257m, RIH to first point		
13:15	13:48	Take first two points		
13:48	14:25	Recompensating; rig having problems with comp. line; correlate again		
14:25	20:41	Take remaining points (total 21 plus 13 repeats, 4 tight)		
20:41	20:57	Standby for sampling decision		
20:57	21:02	Depth correlation - no correction necessary		
21:02	21:10	RIH to first sampling point 568.2m		
21:10	21:43	3 sampling attempts, 568.2m, 568.5m, 568.2m, all no flow.		
21:43	3:46:00 a.m. (13 October 2004)	Take gas sample at 568.8m, sample to tanks 1 and 2. Final pumped volume: 34 litres.		
3:56	4:01	Pulled 5000 pounds coming off wall, recorrelate, on depth		
4:01	4:23	Attempt sample at 561.3m, no flow		
4:23	5:33	Attempt sample at 561.7m, very slow flow, decreasing to nil, abort.		
5:33	5:51	Attempt sample at 558.5m, very slow, abandon		

WIRELINE LOGGING DIARY

Date/Time		Moby-1	Lost Time (minutes)	Down Time (minutes)
From	To	Comments		
5:51	7:04	Attempt sample at 558.4m, very slow, abandon		
7:04	7:11	Attempt water sample at 588.9m, no seal		
7:11	8:05	Take water sample at 588.5m, pump 13l minutes to clean up sample, then fill 4l tank; final fluid at 0.55Ω.		
8:05	8:55	Attempt samples at 572.0m, 572.1m, 572.2m, 571.0m, 571.9m, 573.0m; all tight. Discuss with town and terminate sampling		
8:55	9:53	POOH		
9:53	11:06	Rig down RCI		
11:06	11:33	Cranelifts over catwalk		
11:33	11:57	Cranelift sample tanks to Petrotech extraction area		27
Run#3 SLR (VSP)				
11:57	12:12	Rig up seismic tool, zero tool string, add 0.34m tide correction		
12:12	12:18	RIH, set compensator at 120.7m, RIH to 250m for checkshot		
12:18	12:33	Waiting on crane/rig		15
12:33	12:58	Guns to water, time guns		
12:58	13:10	Seismic surface cable found to be cut, replace and check, tool OK		
13:10	13:55	RIH Checkshots at 250m (no signal) 400m, 550m		12
13:55	14:11	Correlate GR, RIH to TD		
14:11	18:09	Carry out VSP, 10m spacing, 650m to 90m, no signal at 80m		
18:09	18:19	POOH, decompensate, POOH to surface		
18:19	19:15	Rig down seismic tool		
Run#4 Sidewall tool				
19:15	19:15	Radio Silence announced		
19:15	19:20	Hold JSA		
19:20	19:39	Make up sidewall tool		
19:39	19:49	Pick up tool string, zero tool string, subtract 0.5m for tide correction		
19:49	20:19	RIH, set compensator at 150.023m		
20:19	20:38	Correlate and confirm correlation, RIH to first core point at 651.5m.		
20:38	21:01	Shoot 25 cores 651 - 538.0m		
21:01	21:44	POOH, decompensate at 150m, confirm radio silence, POOH		

WIRELINE LOGGING DIARY

Date/Time		Moby-1	Lost Time (minutes)	Down Time (minutes)	
From	To	Comments			
21:44	21:56	Rig down tool, off radio silence			
21:56	22:20	Rig down sheaves, end of logging.			
End of Suite#1		Total Lost Time	Total Down Time		
				NIL	
				96	

APPENDIX 8

VALIDITY CHECKS, TRACER, WATER AND RCI SAMPLE ANALYSES

(By Petrotech Knowledge)

WELL: MOBY-1

VALIDITY CHECKS, TRACER, WATER AND RCI SAMPLE ANALYSES

REPORT TYPE: Final

Client : Bass Strait Oil Company Ltd
Well : Moby-1
Permit : VIC / P-47
Date : 09 - 14 October 2004
Client Representative : Bob Fisher

Date of reporting : January 2005
Project number : 55756
Project co-ordinator : Robyn Tamke
Participants : Brian Toole
David Roberts

Report prepared by : David Roberts
Robyn Tamke
Report reviewed by : Mark Anderson

Number of issues : 3
Distribution Petrotech : 1
Distribution BSOC : 2

Petrotech a.s
PO Box 575
N-5501 HAUGESUND
NORWAY
Phone: +47 52 70 07 00
Fax: +47 52 73 71 10

Petrotech Australia
PO Box 61
MELVILLE WA 6956
AUSTRALIA
Phone: +61 8 9314 2050
Fax: +61 8 9314 7424

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. Petrotech personnel were also present to validate the quality of samples taken by the Baker Atlas RCI wireline fluid sampling (WFS) tool. This involved a programme of validity checks and analysis on the retrieved samples (samples of both gas and water).

The Baker Atlas RCI logging tool was run and three samples were collected (two 840cc PVT gas samples and one bulk four litre water sample). A detailed breakdown of how each sample was processed, including chamber opening pressures, is presented in Table 4.1 of this report.

Petrotech performed single-phase sample transfers of the two gas samples retrieved into Petrotech shipping cylinders. A compositional analysis of each gas sample was performed by Sperry-Sun onsite for hydrocarbon content. The water sample taken was drained from the RCI tool and preserved for analysis onshore and the mud filtrate samples taken during sodium thiocyanate tracer sampling were collected for analysis onshore.

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1. INTRODUCTION

During the period 09 – 14 October 2004, Petrotech supplied technical equipment and personnel to perform the following analyses on the Ocean Patriot rig for the Moby-1 drilling programme.

- Monitoring of sodium thiocyanate in drilling mud
- Opening pressures of RCI (WFS) chambers
- Single phase fluid transfers of RCI (WFS) samples
- Hydrogen Sulphide measurement of gas samples
- Gas compositions of selected retrieved samples
- Determination of mud filtrate contamination in RCI (WFS) water samples
- Water preservation for onshore analyses

In order to obtain the highest quality wellsite data (equivalent to onshore laboratory standards) from samples, Petrotech utilised a specialised mobile offshore laboratory - “SmartLab”. The purpose of the “SmartLab” is to confirm the quality of WFS samples retrieved, including, analysis of hydrocarbon and non-hydrocarbon components.

This report presents the supporting methods, results and any other ancillary information pertinent to the Moby-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. Samples were retained and full ion analyses performed onshore. These results were utilised for comparison with wireline fluid samples (water) and subsequent determination of formation water composition.

Wireline Fluid Sampling

The RCI tool configuration consisted of six 840cc chambers and one 4L chamber. Two 840cc gas samples and one 4L water sample were retrieved. The two gas samples were retrieved from the same depth (568.8mMDRT) and the water sample was retrieved from 588.5mMDRT.

Sample Handling

A detailed breakdown of the sample transfers and compositional analyses carried out on these samples is detailed in the results section of this report.

Following collection of the wireline fluid samples the tools were brought back to the surface. Baker Atlas isolated and removed the sample chambers from the tool and passed them on to Petrotech for sampling and analysis. Prior to sampling/analysis the opening pressure of each chamber was determined (Table 4.1). Immediately after this, each sample was prepared for transfer. This requires that the samples be preconditioned at an elevated temperature and pressure to ensure that the hydrocarbon content of the samples is equilibrated in single phase before opening the chamber.

Following the opening pressure check, sample transfer commenced, introducing the sample into the Petrotech shipping cylinders at a slow constant rate (around 20cc per minute) intended to minimise the disruption of pressure equilibrium. The samples contained in the 840cc chambers were transferred as individual samples into Petrotech shipping cylinders. The 4L water sample was transferred at atmospheric pressure into 1L glass bottles. Details of the sample transfers are presented in Table 4.3.

Excess sample (from the 840cc chambers) not transferred into Petrotech's shipping bottles was flashed to atmospheric pressure, the volume of gas and liquid drained was measured and Dräger measurements for hydrogen sulphide and carbon dioxide were taken. Samples of this gas were given to Sperry-Sun onsite for compositional analysis.

3. OFFSHORE ANALYTICAL METHODS

3.1 Analytical Methods in Gas

3.1.1 Gas Analysis

Analysis of the gas flashed to atmospheric pressure was performed onsite by Sperry Sun.

3.1.2 Hydrogen Sulphide

The concentration of H₂S was determined using Dräger tubes. Gas was passed through stainless steel lines into a small open vessel where the gas was sampled with a hand pump.

The Dräger glass tubes are filled with brown crystals (mercury chloride + pH indicator). On contact with H₂S, mercury sulphide and hydrochloric acid are formed. The acid reacts with pH indicator in the tube giving a pink colour change. Concentration is read directly on the tube scale in ppm(vol).

3.1.3 Carbon Dioxide

Concentration of carbon dioxide was determined using Dräger tubes. Sampling was performed as for hydrogen sulphide. The Dräger glass tubes are filled with crystal violet and hydrazine. Carbon dioxide reacts with the hydrazine to form carbonic acid monohydrate, and crystal violet acts as a redox indicator to a blue colour change. Concentration is read directly on the tube scale in vol%.

3.2 Analytical Methods in Water

3.2.1 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. The determination was performed onsite.

4. RESULTS

Table 4.1 RCI Sample Data

Client	Bass Strait Oil Company Ltd
Well	Moby-1
Project No.	55756

Sampling Depth (mMDRT)	WFS Chamber No.	WFS Chamber Vol.	Downhole Sampling Date	Downhole Sampling Time	Opening Pressure (psig)	Opening Temperature (°C)
568.8	189733	840cc	12.10.04	23:00-01:52	n.d.	20.8
568.8	369031	840cc	13.10.04	01:52-03:47	2306	20.8
588.5	484	4000cc	13.10.04	07:59-08:16	2610	18.4

Table 4.2 PVT Transfer Data

Client	Bass Strait Oil Company Ltd
Well	Moby-1
Project No.	55756

Petrotech Sample No.	Sample Depth (mMDRT)	WFS Chamber No.	Transfer Date	Transfer Time	Petrotech Cylinder No.	Transfer Volume (mL)	Transfer Pressure (psig)	Ambient Temp. (°C)	Dräger Tube	
									CO ₂ (%vol)	H ₂ S (ppmv)
T.01	568.8	189733	13.10.04	15:35	TS-10702	500	3625	21	1.0	n.d.
T.02	568.8	369031	13.10.04	17:25	PT-1113	500	3625	18	1.0	n.d.

Table 4.3 Details of Sample Flash Data

Client	Bass Strait Oil Company Ltd
Well	Moby-1
Project No.	55756

Petrotech Sample No.	Sample Depth (mMDRT)	MDT Chamber No.	Stabilised Oil Volume (L)	Measured Gas Volume (L)	Measured Water Vol. (L)	Barometric Pressure (mBar)	Ambient Temperature (°C)
A.01	588.5	484	0	0	4	1011.5	21.0
A.02	568.8	189733	0	0	0.046	1011.5	20.8
A.03	568.8	369031	0	0	0.051	1011.5	18.2

Table 4.4 Concentration of Thiocyanate Tracer .v. Lag Depth

Client	Bass Strait Oil Company Ltd
Well	Moby-1
Proj. No.	55756

Date	Time	Bit Depth (mMDRT)	LAG Depth (mMDRT)	Sample Location	Concentration (SCN ⁻ mg/L)*	Comments
------	------	----------------------	----------------------	--------------------	---	----------

8 1/2" hole

10.10.04	16:00	na	na	Pit 3	500	Pre-drilling Concentration check
11.10.04	6:30	na	na	Pit 3	320	Pre check Add 10L
11.10.04	8:00	na	na	Returns	380	Pre check returns
11.10.04	8:39	372.0	352.5	Returns	350	M.01 - Commence drilling
11.10.04	9:38	377.0	368.8	Returns	350	M.02
11.10.04	9:44	387.0	371.6	Returns	350	M.03
11.10.04	9:51	389.0	379.0	Returns	290	M.04 - Add 15L to Pit#3
11.10.04	10:06	391.0	390.0	Returns	350	M.05
11.10.04	10:37	410.0	400.0	Returns	350	M.06
11.10.04	10:44	419.0	410.0	Returns	350	M.07
11.10.04	11:12	431.0	420.0	Returns	350	M.08
11.10.04	11:30	444.5	430.0	Returns	350	M.09
11.10.04	11:41	447.5	440.0	Returns	350	M.10
11.10.04	12:03	461.5	450.0	Returns	340	M.11
11.10.04	12:25	476.0	465.0	Returns	350	M.12
11.10.04	12:45	489.0	475.0	Returns	350	M.13
11.10.04	12:56	500.0	480.0	Returns	350	M.14
11.10.04	13:10	504.5	490.0	Returns	350	M.15
11.10.04	13:12	505.5	500.0	Returns	350	M.16
11.10.04	13:16	511.0	510.0	Returns	340	M.17
11.10.04	13:46	530.5	520.0	Returns	350	M.18
11.10.04	14:00	533.5	530.0	Returns	325	M.19 - Add 5L to Pit#3
11.10.04	14:38	546.0	540.0	Returns	350	M.20
11.10.04	15:12	556.0	550.0	Returns	360	M.21
11.10.04	15:40	561.5	559.0	Returns	360	M.22
11.10.04	16:11	571.5	565.0	Returns	345	M.23
11.10.04	16:25	576.0	570.0	Returns	350	M.24
11.10.04	16:34	578.5	571.2	Returns	350	M.25
11.10.04	16:36	578.5	573.0	Returns	355	M.26
11.10.04	16:37	578.0	574.0	Returns	355	M.27
11.10.04	16:41	578.9	575.0	Returns	340	M.28
11.10.04	16:43	579.7	576.0	Returns	345	M.29
11.10.04	16:46	581.0	577.0	Returns	335	M.30
11.10.04	16:50	581.7	578.0	Returns	365	M.31
11.10.04	16:54	581.7	579.0	Returns	350	M.32
11.10.04	16:57	583.4	580.0	Returns	345	M.33
11.10.04	17:00	579.7	581.0	Returns	365	M.34
11.10.04	17:30	589.7	585.0	Returns	350	M.35

Table 4.4 (cont'd) Concentration of Thiocyanate Tracer .v. Lag Depth

Client	Bass Strait Oil Company Ltd
Well	Moby-1
Proj. No.	55756

Date	Time	Bit Depth (mMDRT)	LAG Depth (mMDRT)	Sample Location	Concentration (SCN ⁻ mg/L)*	Comments
11.10.04	17:53	593.5	590.5	Returns	360	RCI Water sample point M.36
11.10.04	17:57	594.0	590.8	Returns	360	M.37
11.10.04	18:00	595.1	591.0	Returns	375	M.38
11.10.04	18:05	596.5	592.0	Returns	365	M.39
11.10.04	18:09	597.6	593.6	Returns	360	M.40
11.10.04	18:16	599.8	595.5	Returns	360	M.41
11.10.04	18:20	601.5	596.7	Returns	355	M.42
11.10.04	18:25	603.2	598.3	Returns	350	M.43
11.10.04	18:36	606.1	602.0	Returns	360	M.44
11.10.04	19:00	613.9	611.1	Returns	350	M.45
11.10.04	19:36	618.0	616.5	Returns	350	M.46
11.10.04	19:50	627.2	620.2	Returns	350	M.47
11.10.04	20:00	634.1	623.7	Returns	350	M.48
11.10.04	20:12	648.4	633.2	Returns	350	M.49
11.10.04	20:24	647.3	638.5	Returns	350	M.50
11.10.04	20:34	656.0	648.4	Returns	350	M.51

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

Table 4.5 Contamination Calculations from RCI Water Sampling Program

Sampling Date	Sampling Time (start)	MDT Chamber No.	Sampling Depth (mMDRT)	Percentage Contamination	Concentration (SCN ⁻ mg/L)	Comments
13.10.04	07:59	484	588.5	9.7	35	Mud Sample Depth = 590.5m (Sample M.36)

Figure 1 Plot of Thiocyanate Concentration vs Lag Depth

Bass Strait Oil Company, Moby-1
8 1/2" Hole Section

Thiocyanate Concentration vs Lag Depth

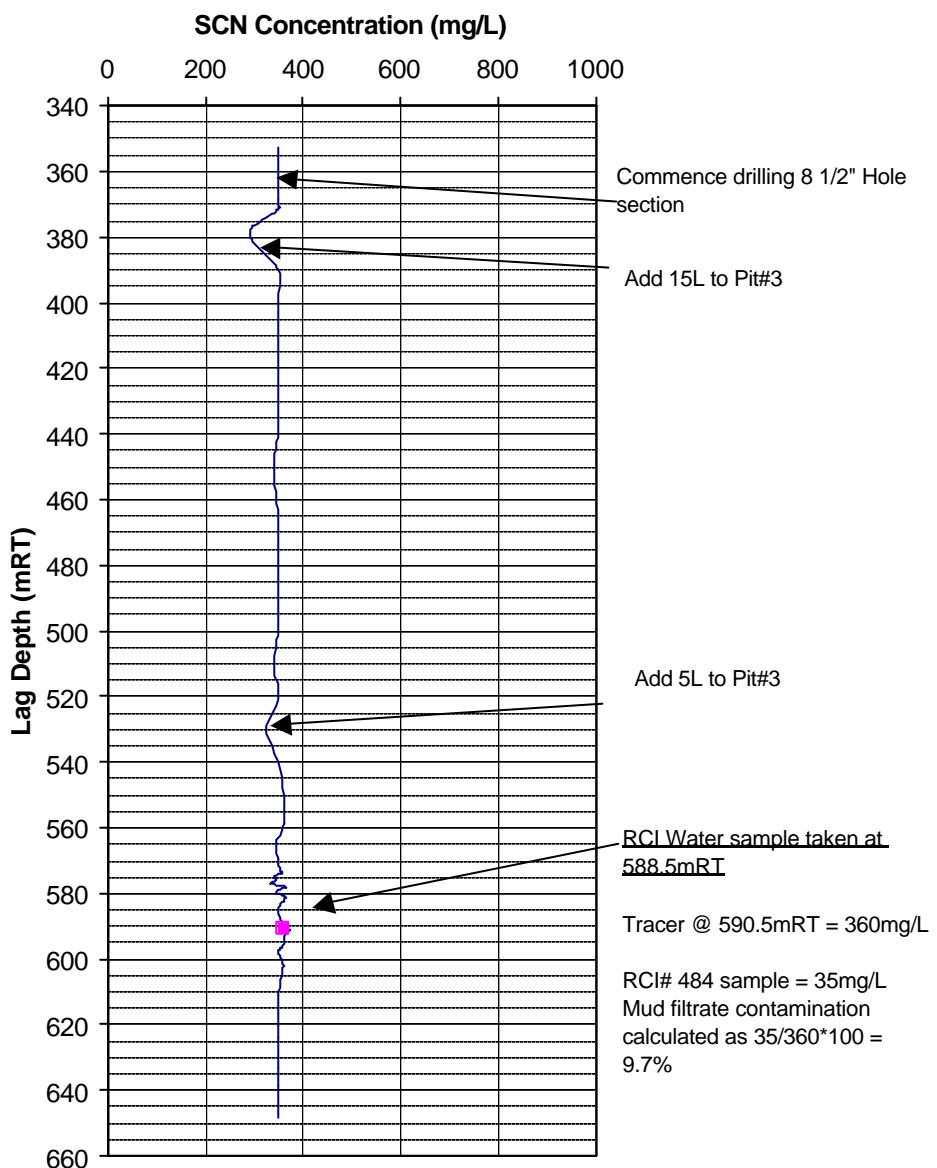


Table 4.6 Water Analysis Data

Client	Bass Strait Oil Company Ltd	
Well	Moby-1	
Project Number	55756	
Parameter	Units	Sample
Depth		A.01 588.5mMDRT
pH	pH units	7.2
Electrical Conductivity @ 25°C	µS/cm	21,000
Total Dissolved Solids (grav.) @ 18°C	mg/L	13,000
Iron, Fe (soluble)	mg/L	0.10
Sodium, Na	mg/L	1,700
Potassium, K	mg/L	3,900
Calcium, Ca	mg/L	78
Magnesium, Mg	mg/L	40
Chloride, Cl	mg/L	6,300
Carbonate, CO ₃	mg/L	<1
Bicarbonate, HCO ₃	mg/L	970
Sulphate, SO ₄	mg/L	9
Nitrate, NO ₃	mg/L	1.1
Barium, Ba	mg/L	4.2
Thiocyanate, SCN	mg/L	42
Specific Gravity @ 25°C		1.010
Cation/Anion balance	%	-3.20
Sum of Ions	mg/L	12,963

Table 4.7 Filtrate Analysis Data

Client	Bass Strait Oil Company Ltd	
Well	Moby-1	
Project Number	55756	
Parameter Depth	Units	Sample M.36 590.5mMDRT
pH	pH units	7.5
Electrical Conductivity @ 25°C	µS/cm	130,000
Total Dissolved Solids (grav.) @ 18°C	mg/L	100,000
Iron, Fe (soluble)	mg/L	<0.05
Sodium, Na	mg/L	3,400
Potassium, K	mg/L	37,000
Calcium, Ca	mg/L	170
Magnesium, Mg	mg/L	72
Chloride, Cl	mg/L	41,000
Carbonate, CO ₃	mg/L	<1
Bicarbonate, HCO ₃	mg/L	460
Sulphate, SO ₄	mg/L	320
Nitrate, NO ₃	mg/L	1.6
Barium, Ba	mg/L	3.5
Thiocyanate, SCN	mg/L	280
Specific Gravity @ 25°C		1.056
Cation/Anion balance	%	-2.73
Sum of Ions	mg/L	82,420

Table 4.8 Ion Composition of Formation water – Depth 588.5mMDRT

Client:	Bass Strait Oil Company Ltd
Rig:	Ocean Patriot
Well:	Moby-1
RCI Chamber:	484
Depth:	588.5mMDRT
Our ref:	55756

Mudfiltrate in WFS sample (%)	10%
--------------------------------------	------------

Ion		WFS (588.5mMDRT)	WFS corrected	Mudfiltrate (590.5 mMDRT)	Formation water Composition
Cl⁻	mg/L	6,300	6,300	41,000	2563
SO₄²⁻	mg/L	9	31	320	*
Na⁺	mg/L	1,700	1,700	3,400	1,517
K⁺	mg/L	3,900	3,900	37,000	335
Mg²⁺	mg/L	40	40	72	37
Ca²⁺	mg/L	78	78	170	68
Ba²⁺	mg/L	4.2	60	3.5	39
HCO₃⁻	mg/L	970	970	460	1025
SCN⁻	mg/L	35	35	360	0

* Assume no sulphate in the formation water, as it has precipitated with barium

** Assume that some barium has precipitated with sulphate

The WFS corrected composition reflects possible errors that may occur when the mixing of mud filtrate and formation water produce insoluble scale (primarily barium sulphate or strontium sulphate) that would not be detected in the onshore water analysis. The correction is derived from bringing the formation water and mud filtrate compositions together in the ratio determined by the thiocyanate contamination level. In this instance, a correction was required.

5. DISCUSSION

Transfers were performed from two RCI chambers with both transfers proceeding smoothly. The two samples were found to contain predominantly gas and one sample demonstrated expected opening pressure. One of the gas samples did not yield an opening pressure after several attempts. This sample was transferred under the same conditions as the first sample and resulted with both samples having the same shipping pressure. This indicates that the sample was of good quality. It could not be established why the opening pressure on chamber 189733 was indeterminable.

Ion compositional breakdown of a wireline fluid water sample taken at 588.5mMDRT and a mud filtrate sample from 590.5mMDRT was carried out onshore. Using these compositions and knowing the level of mud filtrate contamination in the waters by tracer dilution, it is possible to back out contamination from the mud filtrate to arrive at a theoretical formation water composition (see results presented in tables 4.8). The ion balance of calculated water composition is quite good, i.e. an excess of either anions or cations is not evident.

APPENDIX 9

MUDLOGGING END of WELL REPORT

(By Halliburton)



SDL END OF WELL REPORT

Bass Strait Oil Company Ltd

Moby-1

October 2004

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1.0 INTRODUCTION

A Sperry Sun Drilling Services INSITE (Integrated System for Information Technology and Engineering) mud logging unit was contracted to Bass Strait Oil Company Limited for the drilling of the Moby-1 vertical exploration well. The unit included a logging network, which gathered, processed and stored data whilst also providing real time and additional processed data capabilities.

The Diamond Offshore Ocean Patriot offshore drilling rig was used to drill the well in permit Vic/P47.

Full surface data logging commenced from the spud, at 16:45 hrs on the 7th of October 2004, and continued for the duration of the well. The well reached a total depth of 660.0 mMDRT at 20:34 hrs on the 11th October 2004. The well was subsequently plugged and abandoned on the 14th of October 2004.

This report is intended as a summary of the information and data collected, processed and monitored as part of the INSITE service agreement.

DATA ENGINEERS **LOGGING ENGINEERS** **SAMPLE CATCHERS**

Gary Bloom	Liam Clarke
Keith Ratnam	Sam Willis
Doug Wilson	

2.0 WELL DATA SHEET

Well Name:	Moby - 1			
Permit:	Vic/P47			
Operator:	Bass Strait Oil Company Ltd			
Drilling Rig:	Ocean Patriot			
Contractor:	Diamond Offshore			
Location:	Lat: 38° 01' 44.25" S Long: 148° 30' 27.40" E UTM Easting: 632 316.41 UTM Northing: 5 789 884.86			
RT to MSL	21.5 m			
Water Depth	53.87 m			
Hole Sizes:	1	914 mm	to	101.0 m
	2	445 mm	to	325.0 m
	3	311 mm	to	328.0 m
	4	216 mm	to	660.0 m
Casing Shoes:	1	762 x 508 mm	set at	98.0 m
	2	508 x 340 mm	set at	321.76 m
Date Rig on Contract:	3 rd October 2004, 11:30 hrs			
Date Rig on Location:	5 th October 2004, 02:45 hrs			
Spud Date:	7 th October 2004, 16:45 hrs			
Date Reached TD:	11 th October 2004, 20:34 hrs			
Date Rig Released:	17 th October 2004, 13:00 hrs			
T.D. (Measured Depth, Drillers)	660.0 mMDRT			
T.D. (True Vertical Depth)	660.0 mTVDRT			
Well Status	P & A			

3.0 SYNOPSIS

3.1 OPERATIONAL SUMMARY

3.1.1 914 mm (36") Hole

914 mm Hole Drilled from 75.37 mMDRT to 101.0 mMDRT

762 mm Casing set at 98.25 mMDRT

BITS USED: 1

The run included a 914 mm (36") hole opener run in conjunction with a Reed T11C 660 mm (26") bit, dressed with 3 x 22 and 1 x 21 nozzles. This bit assembly was run with a conventional rotary drilling assembly and drilled from 75.0 mMDRT to section TD of 101.0 mMDRT. The section was drilled using seawater combined with guar and gel sweeps.

The 762 x 508 mm (30" x 20") conductor was set at 98.0 mMDRT.

BIT RUN	DEPTH IN m	MADE (m)	TRIP GAS %	REASON FOR TRIP	DRILLING FLUID
1	75.37	101.0	NA	Section TD	Sea-Water/Hi-vis Sweeps

PROBLEMS ON TRIPS

There were no problems on the trips.

WIRELINE PROGRAM

No wire line logs were run over this section

3.1.2 445 mm (17½") Hole

445 mm Hole Drilled from 101.0 mMDRT to 325.0 mMDRT

340 mm Casing Set at 321.76 mMDRT

BITS USED: 1

This run included a Smith GX1C bit, dressed with 3 x 20, 1 x 22 nozzles. This bit was run with a conventional rotary drilling assembly and drilled from 101.0 mMDRT to 325.0 mMDRT. The cement in the 762 x 508 mm (30" x 20") casing was tagged at 96.7 mMDRT. After washing/drilling 1.3 m of cement, the shoe was drilled at 98.0 mMDRT. Drilling continued to the hole section TD of 325.0 mMDRT with seawater combined with 40bbl guar gum sweeps. Prior to POOH, a single shot survey (1°) was taken and a 100bbls Hi-vis sweep was pumped.

The 508 x 340 mm (20" x 13 $\frac{3}{8}$ ") casing was set at 321.76 mMDRT.

BIT RUN	DEPTH IN M	MADE (m)	TRIPGAS %	REASON FOR TRIP	DRILLING FLUID
2	101.0	325.0	N/A	Section TD	Sea-Water/Hi-vis Sweeps

PROBLEMS ON TRIPS

There were no problems on the trips.

WIRELINE PROGRAM

No wire line logs were run over this section.

3.1.3 311 mm (12 1/4") Hole

311 mm Hole Drilled from 325.0 mMDRT to 328.0 mMDRT

No. BITS USED: 1

This run included a Smith SVH bit, dressed with 3 x 20 nozzles. The cement in the 508 x 340 mm (20" x 13³/₈) casing was tagged at 295.5 mMDRT. After drilling 3 m of new formation from 325.0 mMDRT to 328.0 mMDRT, the well was displaced to 1.20 sg (10.0 ppg) KCL Polymer mud and a Formation Integrity Test was performed (EMW =1.7 sg = 14.16 ppg) using 1.20 sg (10.0 ppg) KCL Polymer mud. At the hole section TD 328.0 mMDRT, the 311m (12 1/4") BHA was changed out for a 216 mm (8 1/2 ") BHA.

BIT	DEPTH IN	MADE	TRIP GAS	REASON FOR TRIP	DRILLING
RUN	M	(m)	%		FLUID
3	325.0	328.0	N/A	Section TD	KCL Polymer

3.1.4 216 mm (8 1/2") Hole

216 mm Hole Drilled from 328.0 mMDRT to 660.0 mMDRT TD

No. BITS USED: 1

This run included a Smith MFO4PS bit, dressed with 3 x 16 nozzles. This bit was run with a 1 stabilizer assembly and drilled from 328.0 mMDRT to the well TD of 660.0 mMDRT. The mud weight for this interval was 1.2 sg (10.0 ppg) KCL Polymer.

BIT	DEPTH IN	MADE	TRIP GAS	REASON FOR TRIP	DRILLING
RUN	M	(m)	%		FLUID
4	328.0	660.0	N/A	Well TD	KCL Polymer

PROBLEMS ON TRIPS

The trip encountered some overpull at 570.0 m.

WIRELINE PROGRAM

Wireline logging program as follows: Baker Atlas

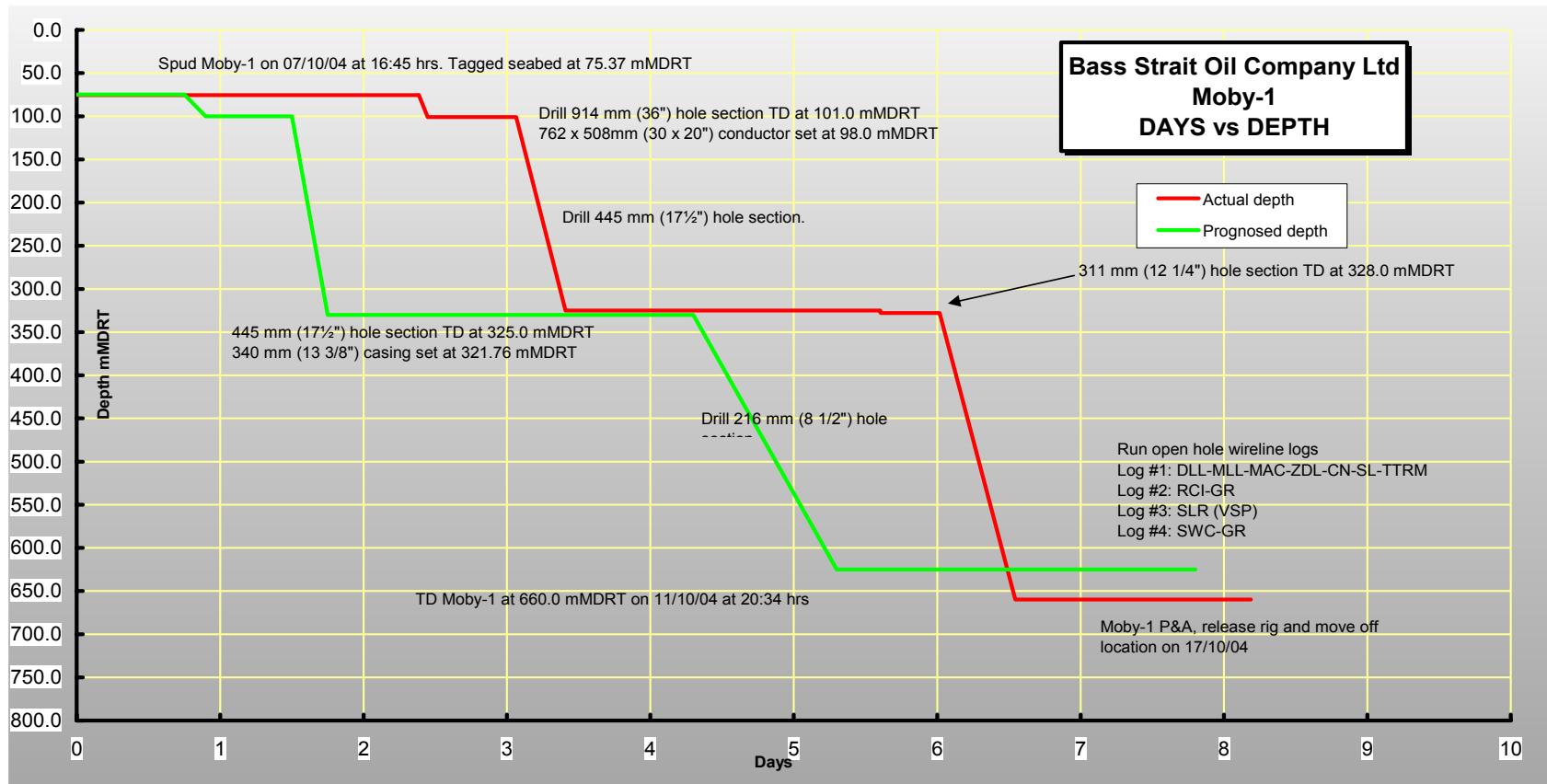
Run 1- DLL/MLL/MAC/ZDL/CN/SL/TTRM

Run 2- RCI-GR (Reservoir Characterization Instrument)

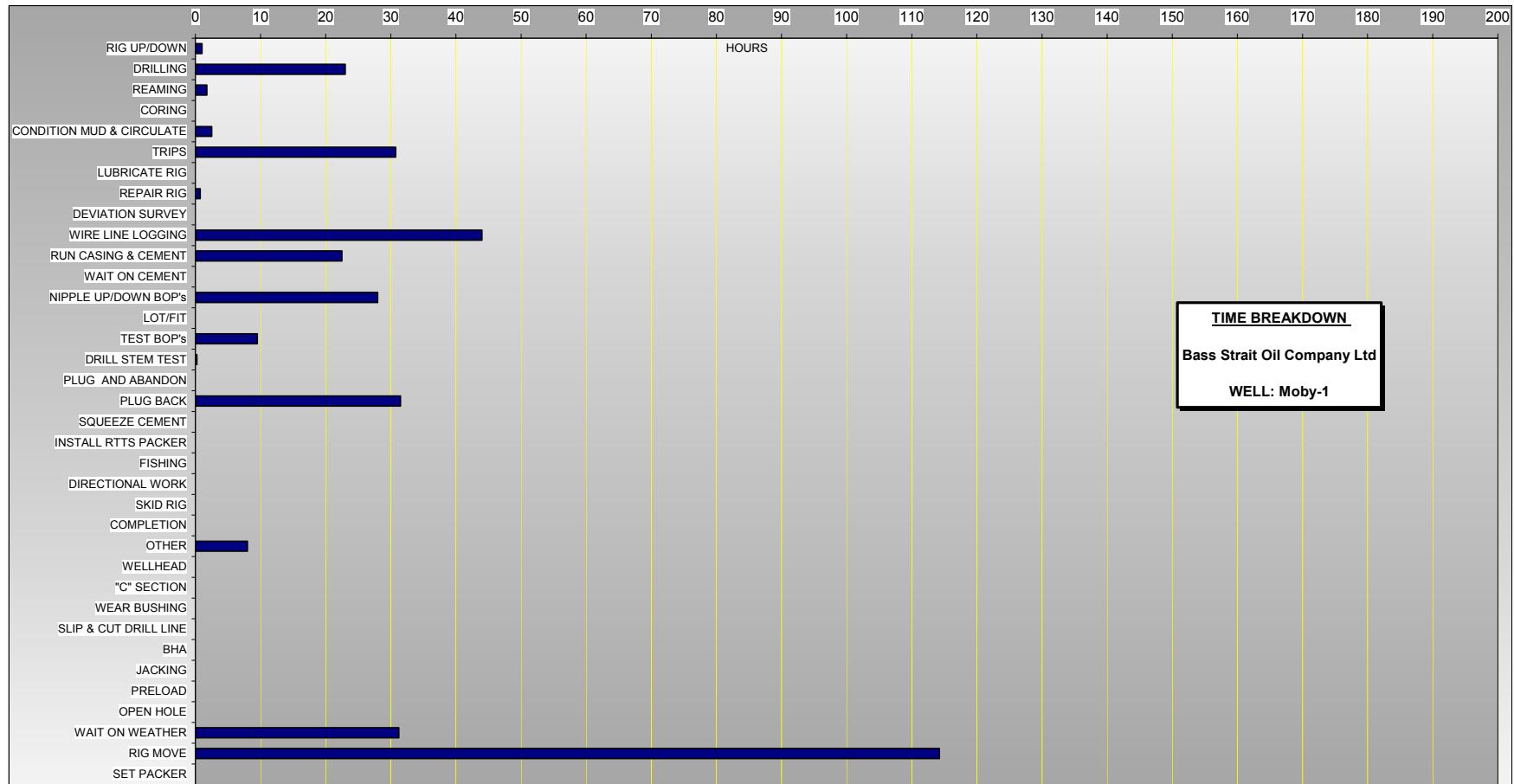
Run 3- SLR (VSP)

Run 4- SWC-GR (Sidewall Coring Tool)

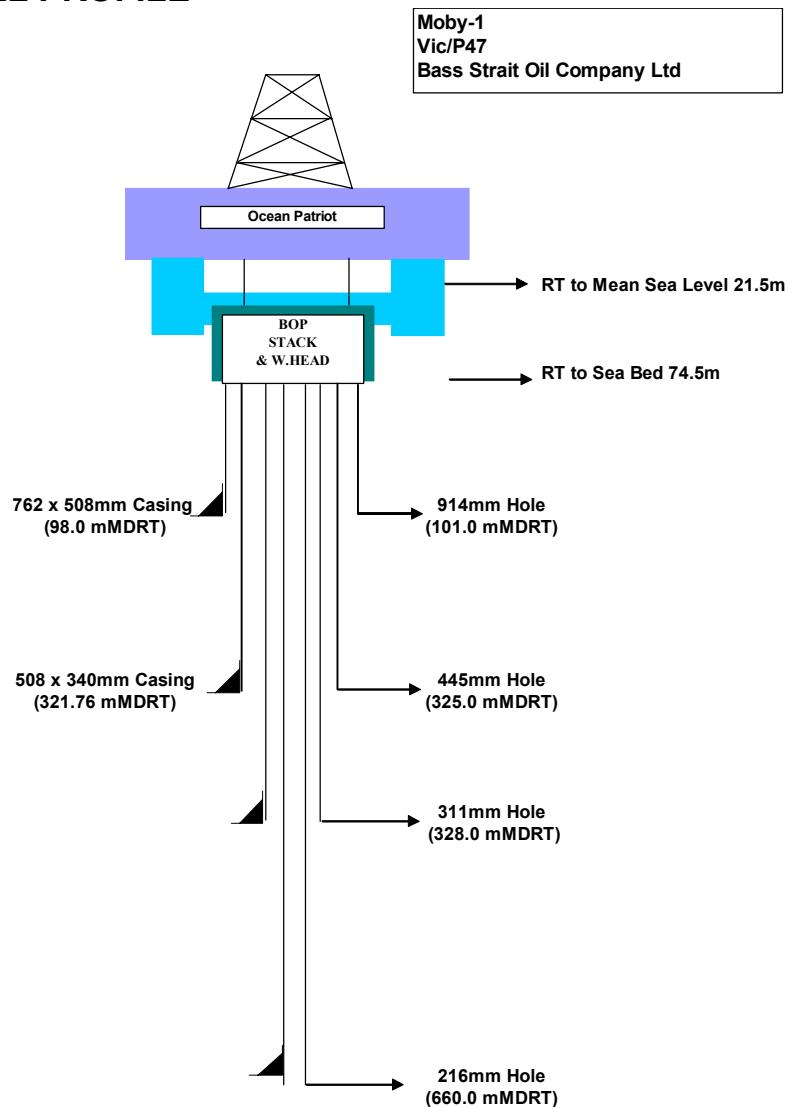
3.2 DAYS VS DEPTH



3.3 TIME BREAKDOWN



3.4 WELL PROFILE



4.0 LOGGING SERVICES SUPPLIED

4.1 GEOLOGICAL MONITORING

EQUIPMENT

Autocalcimeter
Canon Bubble Jet Printer
Company Workstation
Database PC (ADI)
Draw works Depth Encoder
FID Chromatograph
FID Total Gas Detector
Floating Gas Trap
Flow Out Paddle
H2S detectors (x4)
Hookload and WOB
HP Design jet Printer
Hydrometers
INSITE IRIS Data acquisition PC
Mud Density In/Out
Mud Temperature In/Out
Pit Volume Sensors (x7)
Pressure Sensors (x4)
Printrex Printer
Proximity Sensor
Pump Stroke Counters (x3)
Rig Floor Monitor (x1)
Standard Fluoroscope
Standard Stereo Microscope
Workstation PC

4.2 SERVICES PROVIDED

Data files in .pdf, ASCII (LAS) format

Formation Evaluation

Geological and Engineering Reporting

Hydraulics Analysis using Planit

Interpreted Lithology

Plots of daily drilling activities

Real Time Drilling Monitoring

Real Time Log Display of MWD/LWD data

Real Time monitoring of drilling fluids

Real Time Tabular Display of Data

Real Time Trip Monitoring

Real Time Display of Data

Sample Collection and Processing

Timers for Hours and Revolutions on drilling assembly

4.3 MONITORED PARAMETERS

Block Position

Choke Pressure

Continuous Gas Percentage in Air

Depth

Flow Out

Gas Analysis (C1-C5)

H2S Gas

Hookload

Hydrocarbon Shows

Formation Lithology

Mud Density In and Out

Mud Temperature In and Out

Mud Volume

LWD data

On/Off Bottom status

Pump Stroke and Volume of Mud Pumped

Rate of Penetration

Revolutions per Minute of Top Drive

Stand Pipe Pressure

Swab\Surge Calculation

Torque and Vibration

Weight on Bit including Drag and Obstructions

Well Volumes and Lag Calculations

4.4 PERSONNEL

INSITE engineers continuously monitored all operations and maintained the database during the drilling of Moby-1. They also provided any well and drilling data upon request, notified the appropriate personnel of any irregularities or anticipated problems, provided daily reports, print outs of data and prepared master logs and final reports.

4.5 SAMPLE COLLECTION

One large bag of water-washed cuttings was collected for each interval sampled. A small portion of washed sample was placed into Samplex trays and the remainder air-dried and split into four sets.

The splits were distributed to Bass Strait Oil Company Ltd (x1), Eagle Bay Resources NL (x1), Victorian DPI (x1) and Geoscience Australia (x1).

The Samplex Trays were sent to Bass Strait Oil Company Ltd.

Mud samples were sent to Bass Strait Oil Company Ltd.

Reservoir cores were not collected.

Isotube Gas samples were collected at depths designated by the Wellsite Geologist and forwarded to Bass Strait Oil Company Ltd.

Spot check Gas Chromatograms were run for gas samples from Baker Atlas FMT Wireline tool at 568.8m.

4.6 SAMPLE DISTRIBUTION

Washed and Dried Samples (4 sets)

Set A: Washed/Dried Splits

Bass Strait Oil Company Ltd

Attn: Diana Giordano

Kestrel Information Management Pty Ltd

578 – 590 Somerville Road

Sunshine, Victoria 3020

Set B: Washed/Dried Splits

Eagle Bay Resources NL

Attn: Tony Rechner

Eagle Bay Resources NL

Level 1, 14 Outram Street

West Perth, WA 6005

Set C: Washed/Dried Splits**Victorian DPI**

Attn: Graeme Torr (03) 9658 4545
DPI Core Library
South Road
Werribee, Victoria 3030

Set D: Washed/Dried Splits**Geoscience Australia (GA)**

Attn: Manager Geoscience Australia Data Repositories
Core and Cuttings Repository
Cnr Jerrabomberra Ave & Hindmarsh Dr
Symonston ACT 2609

Samplex Trays (1 set)**Bass Strait Oil Company Ltd**

Kestrel Information Management Pty Ltd
578 – 590 Somerville Road
Sunshine, Victoria 3020

Mud Samples**Bass Strait Oil Company Ltd**

Kestrel Information Management Pty Ltd
578 – 590 Somerville Road
Sunshine, Victoria 3020

Isotube Gas Samples**Bass Strait Oil Company Ltd**

Kestrel Information Management Pty Ltd
578 – 590 Somerville Road
Sunshine, Victoria 3020

5.0 GEOLOGY AND SHOWS

5.1 INTRODUCTION

Sampling of drilled cuttings by Sperry-Sun commenced in the 311 mm (12 1/4") hole section, from 325.0 mMDRT until the total well depth of 660.0 mMDRT. Spot sample collection for quick inspection, as well as a change in the programmed sampling frequency depended on the rate of penetration and were at the discretion of the Wellsite Geologist.

Samples of washed, air-dried cuttings were collected over the following intervals:

Moby-1	
SAMPLE DEPTH mMDRT	SAMPLE FREQUENCY Metres
325.0 – 328.0	3
328.0 – 330.0	2
330.0 – 540.0	10
540.0 – 550.0	5
550.0 – 622.0	3
622.0 – 630.0	8
630.0 – 660.0	10

Cuttings were logged on site by Sperry Sun geologists using a binocular microscope. An ultraviolet light box was used to inspect the fluorescence of cuttings.

Gas was monitored by a Total Hydrocarbon Gas detector (Flame Ionisation Detector – F.I.D), calibrated such that 100,000 parts per million (ppm) is equivalent to 10% methane gas in air. An on-line F.I.D gas chromatograph recorded the gas breakdown, calibrated to analyse C1, C2, C3, isotopic C4, normal C4 alkanes, neo C5, isotopic C5 and normal C5. Regular gas system checks were performed to ensure the correct functioning of the gas detection and measurement system.

Below is a brief explanation to the use of different gas ratios in the enclosed Gas Ratio Plot. C1 Ratios (C1/C2, C1/C3, C1/C4 Total, C1/C5 Total). These display the fraction of each component compared to the fraction of C1. The ratios generally decrease with depth as more mature sediments are encountered. Mature source rocks and hydrocarbon reservoirs show low ratios

Gas Wetness Ratio (GWR): $C_2+C_3+C_4/C_1 \times 100$. The GWR gives an indication of maturity. It will generally increase with depth as the C1 fraction will represent a smaller part of the total light HC.

Light to Heavy ratio (LHR): $C_1+C_2/C_3+C_4 \times 100$. The LHR is expected to decrease with depth.

Oil Character qualifier (OQC): C_4/C_3 . Under some circumstances high amounts of C1 will mask the presence of oil. GWR and LHR could then be misinterpreted. In the presence of oil, C4 will increase relative to C3, and the OQC would increase.

Average Carbon Number (ACN): $[C_1 + (2 \times C_2) + (3 \times C_3) + (4 \times C_4)] / (C_1 + C_2 + C_3 + C_4)$.

5.2 LITHOLOGICAL SUMMARY FOR MOBY-1

Following is a tabulated lithological summary of Moby-1. The intervals have been determined on the basis of cuttings lithology and drilling parameters and are consistent with those delineated by the Wellsite Geologist.

Interpretative Depth 74.5 to 490.0 mMDRT		Lithology ARGILLACEOUS CALCILUTITE with minor CALCARENITE and ARGILLACEOUS CALCISILTITE.	
ROP. (metre/hour)	Drilling Parameters (Avg)	Maximum Formation Gas: 0.31%	Average Formation Gas: 0.09%
Min. 11.4 Max. 343.5 Avg. 82.0	WOB : 7.9 MT RPM(surf): 140 RPM(mot): N/A TRQ: 4046 nM	Chromatograph Analysis: C_1 : 2794 ppm C_2 : 20 ppm C_3 : 6 ppm iC_4 : 3 ppm nC_4 : 4 ppm $neoC_5$: 0 ppm iC_5 : 0 ppm nC_5 : 0 ppm	Chromatograph Analysis: C_1 : 1026 ppm C_2 : 6 ppm C_3 : 3 ppm iC_4 : 1 ppm nC_4 : 1 ppm $neoC_5$: 0 ppm iC_5 : 0 ppm nC_5 : 0 ppm
ARGILLACEOUS CALCILUTITE (90 - 100%): white - very light grey, occasionally bluish white - pale bluish grey, very soft - soft, amorphous, 60-70% micrite, 20-30% argillaceous matrix, weakly cemented with micritic cement, trace - occasional Fossil Fragments (Spicules, Bryozoa), trace nodular pyrite, trace glauconite, trace lithic, grading in part to CLAYSTONE.			
ARGILLACEOUS CALCARENITE (0 - 10%): off white - very light grey, occasionally colourless - medium grey, firm - moderately hard, microcrystalline, 50-60% micrite, 30-40% argillaceous matrix, well cemented, specks, sucrosic, argillaceous, occasionally - common Fossil Fragments (Spicules, Bryozoa, Forams), trace carbonaceous specks, trace nodular pyrite, tr glauconite.			
ARGILLACEOUS CALCISILTITE (10 - 30%): medium light grey - medium dark grey, occasionally medium olive grey, soft - firm, occasionally moderately hard, crumbly - splintery, 10-20% argillaceous matrix, weakly - moderately cemented, sucrosic, trace carbonaceous specks, grading to argillaceous CALCILUTITE.			

Interpretative Depth 490.0 – 555.0 mMDRT		Lithology MARL grading into CALCILUTITE, CALCAREOUS CLAYSTONE and SILTSTONE.	
ROP. (metre/hour)	Drilling Parameters (Avg) Min. 12.8 Max. 161.2 Avg. 42.7	Maximum Formation Gas: 0.49% Chromatograph Analysis: C₁ : 5149 ppm C₂ : 40 ppm C₃ : 9 ppm iC₄ : 3 ppm nC₄ : 2 ppm neoC₅ : 0 ppm iC₅ : 4 ppm nC₅ : 6 ppm	Average Formation Gas: 0.31% Chromatograph Analysis: C₁ : 3278 ppm C₂ : 24 ppm C₃ : 4 ppm iC₄ : 1 ppm nC₄ : 1 ppm neoC₅ : 0 ppm iC₅ : 1 ppm nC₅ : 2 ppm

MARL (10 - 30%): white - very light grey, occasionally light bluish grey, very soft - soft, dispersive - amorphous, 10-15% argillaceous matrix, weakly cemented, trace carbonaceous specks, trace nodular pyrite, trace very fine - fine disseminated glauconite.

ARGILLACEOUS CALCILUTITE (10 - 40%): light grey - light olive grey, soft, amorphous, 60-70% micrite, 30-40% argillaceous matrix, weakly - moderate cementation with micritic cement, sticky, occasionally sucrosic, occasionally carbonaceous specks, trace - rare Fossil Fragments (Forams, Bryozoa), trace nodular pyrite, grading to MARL.

SILTSTONE (40 - 90%): medium - dark yellowish brown, soft - firm, argillaceous, with 5-10% very fine quartz sand, trace - 5% glauconite, grading to SANDSTONE.

Interpretative Depth 555.0 to 583.0 mMDRT		Lithology ARGILLACEOUS SILTSTONE grading into SANDSTONE, with CALCAREOUS CLAYSTONE and GREENSAND.	
ROP. (metre/hour)	Drilling Parameters (Avg) Min. 4.5 Max. 35.7 Avg. 20.0	Maximum Formation Gas: 1.64% Chromatograph Analysis: C_1 : 18184 ppm C_2 : 178 ppm C_3 : 23 ppm iC_4 : 6 ppm nC_4 : 4 ppm $neoC_5$: 0 ppm iC_5 : 5 ppm nC_5 : 3 ppm	Average Formation Gas: 0.85% Chromatograph Analysis: C_1 : 8741 ppm C_2 : 74 ppm C_3 : 8 ppm iC_4 : 1 ppm nC_4 : 1 ppm $neoC_5$: 0 ppm iC_5 : 1 ppm nC_5 : 1 ppm
CLAYSTONE (0 - 20%): light - medium greyish brown, light brownish yellow, trace light greenish grey, soft - firm, hard in part, amorphous - blocky, rare - abundant silt - fine sand grading to SILTY CLAYSTONE, trace fine glauconite, trace nodular pyrite.			
SILTSTONE (40 - 90%): medium - dark yellowish brown, soft - firm, argillaceous, with 5-10% very fine quartz sand, trace - 5% glauconite, grading to SANDSTONE.			
SANDSTONE (10 - 50%): medium yellowish brown, firm, occasionally soft, friable, very fine, sub angular - sub round, moderately well sorted, with 5-10% clay matrix, nil to poor inferred porosity, SHOWS: 10-20% (60%@ 571m), dull yellow natural fluorescence, slow blue - white cut fluorescence (instantaneous blue - white cut @ 571m) , solid - patchy blue - white residue ring.			

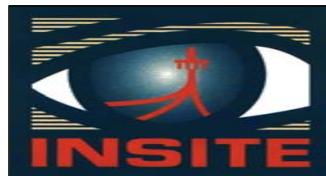
Interpretative Depth 583.0 to 600.0 mMDRT		Lithology QUARTZ SANDSTONE with trace SILTSTONE.	
ROP. (metre/hour)	Drilling Parameters (Avg) Min. 13.0 Max. 43.1 Avg. 22.2	Maximum Formation Gas: 0.61% Chromatograph Analysis: C_1 : 8371 ppm C_2 : 68 ppm C_3 : 10 ppm iC_4 : 3 ppm nC_4 : 2 ppm $neoC_5$: 0 ppm iC_5 : 1 ppm nC_5 : 3 ppm	Average Formation Gas: 0.32% Chromatograph Analysis: C_1 : 3588 ppm C_2 : 26 ppm C_3 : 4 ppm iC_4 : 1 ppm nC_4 : 0 ppm $neoC_5$: 0 ppm iC_5 : 0 ppm nC_5 : 0 ppm
SANDSTONE (50 - 80%): colourless - milky, occasionally pale grey, predominately loose quartz grains, fine - course, predominately course grains, angular - sub-round, anhedral, moderately poorly sorted, weakly - non cemented, moderate calcareous, rare - trace medium - fine dark green, rare - trace calcareous, trace Fossil Fragments, grading in part to SILTSTONE, poor inferred porosity, NO SHOWS.			
SILTSTONE (20 - 50%): medium - dark yellowish brown, soft - firm, argillaceous, 5-10% very fine quartz sand, trace - 5% glauconite, grading to SANDSTONE.			

Interpretative Depth 600.0 to 660.0 mMDRT		Lithology QUARTZ SANDSTONE and CLAYSTONE.	
ROP. (metre/hour)	Drilling Parameters (Avg)	Maximum Formation Gas: 0.25%	Average Formation Gas: 0.11%
Min. 6.9 Max. 122.6 Avg. 46.7	WOB : 6.5 MT RPM(surf): 138 RPM(mot): N/A TRQ: 4998 nM	Chromatograph Analysis: C ₁ : 2636 ppm C ₂ : 24 ppm C ₃ : 11 ppm iC ₄ : 5 ppm nC ₄ : 7 ppm neoC ₅ : 0 ppm iC ₅ : 4 ppm nC ₅ : 9 ppm	
SANDSTONE (60 – 90%): colourless - frosted, translucent, white - pale grey, predominately loose quartz grains, firm - hard aggregates in part, fine - course, predominately coarse, angular – sub round, anhedral, moderately poorly sorted, weakly to non cemented, trace - 20% argillaceous matrix, trace calcareous cement, rare - trace medium - fine dark green glauconite, rare - trace calcareous, trace coal, trace nodular pyrite, poor - very good inferred porosity, NO SHOWS.		Chromatograph Analysis: C ₁ : 1460 ppm C ₂ : 8 ppm C ₃ : 3 ppm iC ₄ : 1 ppm nC ₄ : 1 ppm neoC ₅ : 0 ppm iC ₅ : 1 ppm nC ₅ : 1 ppm	
CLAYSTONE (10 – 40%): white - very light grey, soft, dispersive, trace - 5% silt – very fine sand, grading to SILTSTONE in part.			

6.0 CASING SUMMARY

Casing Type	Shoe Depth m
762 x 508mm (30" x 20") Casing X52 x X58, 456 kg/m,.3 joints, 45 m	98.0
340mm (13 3/8")Casing L-80, 101 kg/m, 22 joints, 268 m	321.76

7.0 MUD RECORD



MUD RECORD

Customer: Bass Strait Oil Company Ltd

Well: Moby-1

Area: Gippsland Basin

Lease: Vic/P47

Rig: Ocean Patriot

Mud Company: MI

Date	Depth	Type	Weight	Vis	PV	YP	Gels	API Filtrate	Cake	Sol	Glycol	Water	Oil	pH	Chlorides	Comments
	mMD		ppg	sec	cp		10 sec/min	cc	API	%	%	%	%		mg/l	
08-Oct-04	101.0	Sea Water, Guar Gel sweeps	8.6													
09-Oct-04	325.0	Sea Water, Guar Gel sweeps	8.6													
10-Oct-04	328.0	KCL Polymer Mud	10.0	56	26	29	6/13	5	1.0	8.0		92.0	0.0	9.3	30000	
11-Oct-04	660.0	KCL Polymer Mud	10.0	55	24	34	6/13	5	1.0	9.0		91.0	0.0	9.5	36000	

8.0 BIT RECORD



OPERATOR : Bass Strait Oil Company Ltd					WELL : Moby-1								RIG : Ocean Patriot									
PUMP 1 : 165x305 mm			PUMP 2 : 165x305 mm		PUMP 3 : 165x305 mm																	
Bit Size (mm)	BIT #	MAKE/TYPE	TFA (in2)	JETS	DEPTH IN (mMDRT)	Metres Drilled	Eff Hrs On Btm	AV ROP (m/hr)	IADC hrs	WOB (MT)	RPM	KREV	SPP (psi)	GPM (gpm)	TORQ (ft/lbs)	IADC BIT GRADING						
914	1	Reed T11C	1.45	3x22, 1x21	75.4	26.0	1.2	21.7	1.2	3.5	59	1.1	1050	1025	3000							
445	2	Smith GX1C	1.29	3x20, 1x22	101.0	224.0	4.3	52.1	4.3	3	140	36.0	1950	1100	3000	0	0	NO	A	0	I	NO TD
311	3	Smith SVH	0.92	3x20	325.0	3.0	1.2	40.0	1.2	3	77	5.0	996	655	2000	3	1	CT	N	X	I	NO TD
216	4	Smith MFO4PS	0.59	3x16	328.0	332.0	9.4	35.3	9.4	5	140	79.0	1900	650	2200	3	3	CT	S	X	I	WT CP

9.0 HYDRAULICS RECORD

													
HYDRAULICS SUMMARY													
OPERATOR : Bass Strait Oil Company Ltd						WELL : Moby-1							
PUMP 1 : bbl/stk)		165 x305 mm (6.5x12"), .0189m3/stk (.119 PUMP 2 : bbl/stk)				165 x305 mm (6.5x12"), .0189m3/stk (.119 PUMP 3 : bbl/stk)				165 x305 mm (6.5x12"), .0189m3/stk (.119			
Bit Size (mm)	BIT #	MAKE/TYPE	DEPTH IN (mMDRT)	TFA (mm ²)	JETS	SPP (KPa)	Flow In Lpm	Jet Imp (KN)	Jet Vel (m/s)	PRESS LOSS (KPa)		ECD bit (sg)	% P Loss @ Bit
										Annulus	String		
914	1	Reed T11C	74.5	1.45	3x22, 1x21	7720	3879	4.60	59.2	4	7715	1.04	36.0
445	2	Smith GX1C	101.0	1.29	3x20, 1x22	13400	4165	6.15	83.0	7	13465	1.07	49.0
311	3	Smith SVH	325.0	0.92	3x20	6874	2479	3.43	69.0	83	6791	1.22	47.0
216	4	Smith MFO4PS	328.0	0.59	3x16	13444	2460	5.29	107.0	661	12789	1.31	58.0

APPENDIX 10

PVT REPORT

(By Core Laboratories Australia Pty Ltd)

***Reservoir Fluid Analysis of
Sub-surface Samples from
Moby-1 Well
Victoria***

Prepared for
Bass Strait Oil Company Limited

January 2005

File: AFL 2004-062

Reservoir Fluid Laboratory
Core Laboratories Australia Pty Ltd
Perth
Western Australia

5 January, 2005

Bass Strait Oil Company Limited,
C/- Labrador Petro-Management Pty Ltd
Hampden House
174 Hampden Road,
Nedlands,
Western Australia, 6009

Attention: Mr Robert Fisher

Subject: Reservoir Fluid Analysis
Well: Moby-1
Location: Victoria
File: AFL 2004-062

Dear Robert,

Two sub-surface samples, transferred from down-hole sampling chambers, were received for use in a reservoir fluid analysis study. These samples were validity checked prior to commencement of the analysis program. Presented in the following report are the results of the requested analyses.

Core Laboratories Australia Pty Ltd is pleased for this opportunity to be of service to Bass Strait Oil Company Limited. Should you have any questions regarding this report, or if we may be of any further assistance, please feel free to contact me at your convenience.

Yours Faithfully,
For **CORE LABORATORIES AUSTRALIA PTY LTD**

John R. Thompson
Project Coordinator

Kevin R. Daken
Laboratory Supervisor

Bass Strait Oil Company Limited
Moby-1
AFL 2004-062

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Compositional Analyses of Reservoir Fluid (Gas)	4-5
Pressure-Volume Relations	6

Bass Strait Oil Company Limited
Moby-1
AFL 2004-062

LABORATORY PROCEDURES

Sample Selection and Validation

Two sub-surface samples were transferred in the field and forwarded to our Perth laboratory. Initially, the opening pressure was measured for each sample and compared to shipping conditions. The summary of results, shown on page 3, indicated the samples were consistent with sample data provided.

Compositional Analysis

The composition of each sample was determined by flash/separation techniques whereby a fluid sub-sample was isothermally flashed and separated into liquid and gas phases. The flashed gas was analysed according to the GPA 2286 method. However, there was no measurable flashed liquid on which to perform physical or compositional analysis. The measured compositions for each sample set are presented on pages 4 and 5 of this report.

Constant Composition Expansion (Pressure-Volume Relations)

A known volume of reservoir fluid was charged to a high-pressure, visual cell and thermally expanded to the reported temperature of 42.8 °C. After equilibrating the sample in single phase, the fluid was subjected to a constant composition expansion procedure. During this experiment, no dew point was observed. Subsequently, the compressibility factor Z was determined and the gas viscosity calculated. All volumetric data and pressure-volume relation measurements are summarised on page 6.

Bass Strait Oil Company Limited
Moby-1
AFL 2004-062

General Well Information

Company.....	Bass Strait Oil Company Limited	
Well Name.....	Moby-1	
API Well Number.....	-	
File Number.....	AFL 2004-062	
Date Sample Collected.....	12 & 13-Oct-04	
Sample Type.....	Bottom-Hole	
Geographical Location.....	Victoria	
Field.....	Moby	

Well Description

Formation.....	*	
Pool (or Zone).....	*	
Date Completed.....	*	
Elevation.....	*	m
Producing Interval.....	*	m
Total Depth.....	*	m
Tubing Size.....	*	in
Tubing Depth.....	*	m
Casing Size.....	*	in
Casing Depth.....	*	m

Pressure Survey Data

Data from Original Discovery Well

Date	12 & 13-Oct-04	
Reservoir Pressure	586	psia (@ 546.7m TVD SS)
Gas / Oil Contact.....	*	m
Oil / Water Contact.....	*	m

Data at Sample Collection

Date.....	12 & 13-Oct-04	
Reservoir Pressure.....	586	psia (@ 546.7m TVD SS)
Reservoir Temperature.....	42.8	°C (@ 546.7m TVD SS)
Pressure Tool.....	*	
Flowing Bottom-Hole Pressure.....	*	psig
Gas / Oil Contact.....	*	m
Oil / Water Contact.....	*	m

* Data not forwarded to Core Laboratories.

Bass Strait Oil Company Limited
Moby-1
AFL 2004-062

Production Data

Data from Original Discovery Well

Location.....	*	
Date.....	*	
Oil Gravity @ STP.....	*	°API
Separator Pressure.....	*	psig
Separator Temperature.....	*	°F
Production Rates		
Gas.....	*	Mscf/D
Liquid.....	*	STbbl/D
Gas/Liquid Ratio.....	*	scf/bbl

Data at Sample Collection

Sampling Date.....	12 & 13-Oct-04	
Production Rate.....	*	bbl/D
Produced G.O.R.	*	scf/bbl
Liquid Gravity at 60.0 °F.....	*	°API
Productivity Index.....	*	bbl/D/psi at °F and bbl/D

Sampling Information

Sample Collected at.....	568.8	m MDRT
Status of Well.....	*	
Sampled By.....	*	
Type Sampler.....	*	
Cylinder Names/Numbers	TS-10702 (T.01) PT-1113 (T.02)	

* Data not forwarded to Core Laboratories.

Bass Strait Oil & Gas Company

Moby-1

AFL 2004-062

PRELIMINARY QUALITY CHECKS
of Reservoir Oil Samples Received in Laboratory

Chamber Number	Depth (m) MDRT	Reservoir Conditions		Shipping Conditions		Lab Opening Conditions		Saturation Conditions		Approximate Sample Volume (cc)	Water/Filtrate Recovered (cc)
		psia	°C	psig	°C	psig	°C	psig	°C		
TS-10702	568.8	586	42.8	2900	21.0	3456	15.7	-	-	435 #	75
* PT-1113	568.8	586	42.8	2900	18.0	3042	16.2	@	42.8	475 #	57

* Sample selected for limited PVT analysis.

Notes:

Sample volume determined at 5000 psig WP and 43 °C

@ Dry gas, no dew point observed.

Bass Strait Oil Company Limited

Moby-1

AFL 2004-062

COMPOSITION OF RESERVOIR FLUID SAMPLE - TS-10702

(by Flash/Extended Chromatography)

Component Name	Mol %	Wt %	Liquid Density (gm/cc)	MW
Hydrogen Sulfide	0.00	0.00	0.8006	34.08
Carbon Dioxide	0.73	1.96	0.8172	44.01
Nitrogen	0.74	1.27	0.8086	28.013
Methane	98.38	96.42	0.2997	16.043
Ethane	0.13	0.24	0.3562	30.07
Propane	Trace	0.01	0.5070	44.097
iso-Butane	0.01	0.02	0.5629	58.123
n-Butane	Trace	0.01	0.5840	58.123
iso-Pentane	0.00	0.00	0.6244	72.15
n-Pentane	0.00	0.00	0.6311	72.15
Hexanes	0.01	0.06	0.6850	84
Heptanes	0.00	0.00	0.7220	96
Octanes	Trace	0.01	0.7450	107
Nonanes	0.00	0.00	0.7640	121
Decanes	0.00	0.00	0.7780	134
Undecanes	0.00	0.00	0.7890	147
Dodecanes	0.00	0.00	0.8000	161
Tridecanes	0.00	0.00	0.8110	175
Tetradecanes	0.00	0.00	0.8220	190
Pentadecanes	0.00	0.00	0.8320	206
Hexadecanes	0.00	0.00	0.8390	222
Heptadecanes	0.00	0.00	0.8470	237
Octadecanes	0.00	0.00	0.8520	251
Nonadecanes	0.00	0.00	0.8570	263
Eicosanes plus	0.00	0.00	0.8800	310
Totals	100.00	100.00		

Total Sample Properties

Molecular Weight	16.37
Equivalent Liquid Density, gm/scc	0.3062

Plus Fractions	Mol %	Wt %	Density	MW
Heptanes plus	0.00	0.01	0.7450	107

Bass Strait Oil Company Limited

Moby-1

AFL 2004-062

COMPOSITION OF RESERVOIR FLUID SAMPLE - PT-1113

(by Flash/Extended Chromatography)

Component Name	Mol %	Wt %	Liquid Density (gm/cc)	MW
Hydrogen Sulfide	0.00	0.00	0.8006	34.08
Carbon Dioxide	0.70	1.88	0.8172	44.01
Nitrogen	0.75	1.28	0.8086	28.013
Methane	98.42	96.55	0.2997	16.043
Ethane	0.13	0.24	0.3562	30.07
Propane	Trace	0.01	0.5070	44.097
iso-Butane	Trace	0.01	0.5629	58.123
n-Butane	Trace	0.01	0.5840	58.123
iso-Pentane	0.00	0.00	0.6244	72.15
n-Pentane	0.00	0.00	0.6311	72.15
Hexanes	Trace	0.01	0.6850	84
Heptanes	0.00	0.00	0.7220	96
Octanes	Trace	0.01	0.7450	107
Nonanes	0.00	0.00	0.7640	121
Decanes	0.00	0.00	0.7780	134
Undecanes	0.00	0.00	0.7890	147
Dodecanes	0.00	0.00	0.8000	161
Tridecanes	0.00	0.00	0.8110	175
Tetradecanes	0.00	0.00	0.8220	190
Pentadecanes	0.00	0.00	0.8320	206
Hexadecanes	0.00	0.00	0.8390	222
Heptadecanes	0.00	0.00	0.8470	237
Octadecanes	0.00	0.00	0.8520	251
Nonadecanes	0.00	0.00	0.8570	263
Eicosanes plus	0.00	0.00	0.8800	310
Totals	100.00	100.00		

Total Sample Properties

Molecular Weight	16.35
Equivalent Liquid Density, gm/scc	0.3060

Plus Fractions	Mol %	Wt %	Density	MW
Heptanes plus	0.00	0.01	0.7450	107

Bass Strait Oil Company Limited**Moby-1**

AFL 2004-062

PRESSURE-VOLUME RELATIONS - PT-1113

(at 42.8 °C)

Pressure psig	Relative Volume (A)	Deviation Factor Z	Calculated Gas Viscosity cp
5000	0.1252	0.960	0.0270
4500	0.1334	0.921	0.0254
4000	0.1450	0.890	0.0236
3600	0.1577	0.871	0.0220
3200	0.1745	0.858	0.0205
2800	0.1975	0.850	0.0190
2400	0.2299	0.849	0.0175
2200	0.2513	0.851	0.0168
2000	0.2775	0.855	0.0161
1800	0.3104	0.861	0.0155
1600	0.3522	0.869	0.0149
1400	0.4071	0.880	0.0144
1200	0.4811	0.893	0.0139
1000	0.5856	0.908	0.0135
800	0.7419	0.924	0.0131
600	1.0000	0.940	0.0127
400	1.5530	0.961	0.0124
327	1.9239	0.966	0.0123

GAS EXPANSION FACTORS -

at Working Pressure

(5000 psig) 1.827 Mscf/bbl

at Reservoir Pressure (approx.)

(600 psig) 0.229 Mscf/bbl

(40.8 scf/cf)

(A) Relative Volume: V/V_{sat} or volume at indicated pressure per volume at saturation pressure.

APPENDIX 11

GEOCHEMISTRY REPORT

(By Geotechnical Services Pty Ltd)

DATA REPORT

MOBY-1

Prepared by:
Christine West

Prepared for:
Bass Strait Oil

February 2005

GEOTECH

41- 45 Furnace Road, Welshpool, Western Australia. 6106
Locked Bag 27, Cannington, Western Australia. 6987
Email: geotech@geotechnical-services.com.au

**GEOTECHNICAL
SERVICES PTY LTD**

Telephone: (08) 9458 8877
Facsimile: (08) 9458 8857
ACN 050 543 194



DATA AND TABLES

MOBY-1

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FIGURE 1

Sample : MOBY-1, 588.5m, Test 37, Oil
File ID : 345808W

GEOTECH

Chromatogram obtained from analysis of the whole oil by GC-MS

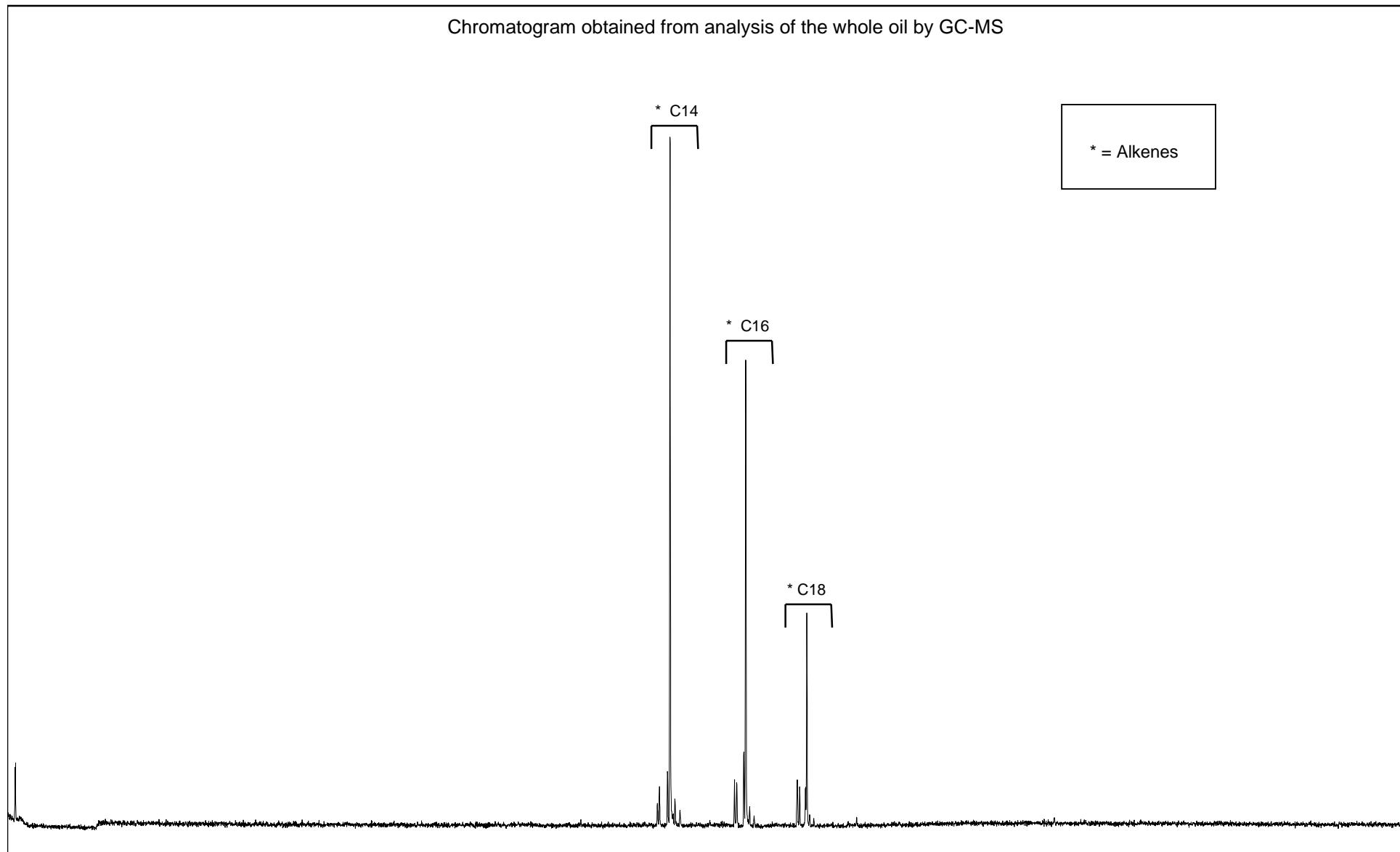


TABLE 1

**LIQUID CHROMATOGRAPHY DATA
OIL**

MOBY-1

Yields (%) and Selected Ratios



DEPTH	Sample Type	-----Hydrocarbons-----			-----Non-hydrocarbons-----			Sats	Asph.	HC
		Sats	Aros	HC's	NSOs	Asph.	Non HC's			
588.5m, Test-37	Oil	63.1	20.9	84.0	16.0	nd	16.0	3.0	nd	5.3

TABLE 2

**ANALYSIS OF SATURATED HYDROCARBONS BY GC-MS
OIL**

MOBY-1

A. Selected Ratios



DEPTH	Sample Type	Prist./Phyt.	Prist./n-C17	Phyt./n-C18	CPI(1)	CPI(2)	(C21+C22)/(C28+C29)
588.5m, Test-37	Fluid	nd	nd	nd	nd	nd	nd

MOBY-1

B. n-Alkane Distributions

DEPTH	nC12	nC13	nC14	nC15	nC16	nC17	Pr	nC18	Ph	nC19	nC20	nC21	nC22	nC23	nC24	nC25	nC26	nC27	nC28	nC29	nC30	nC31
588.5m, Test-37	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	

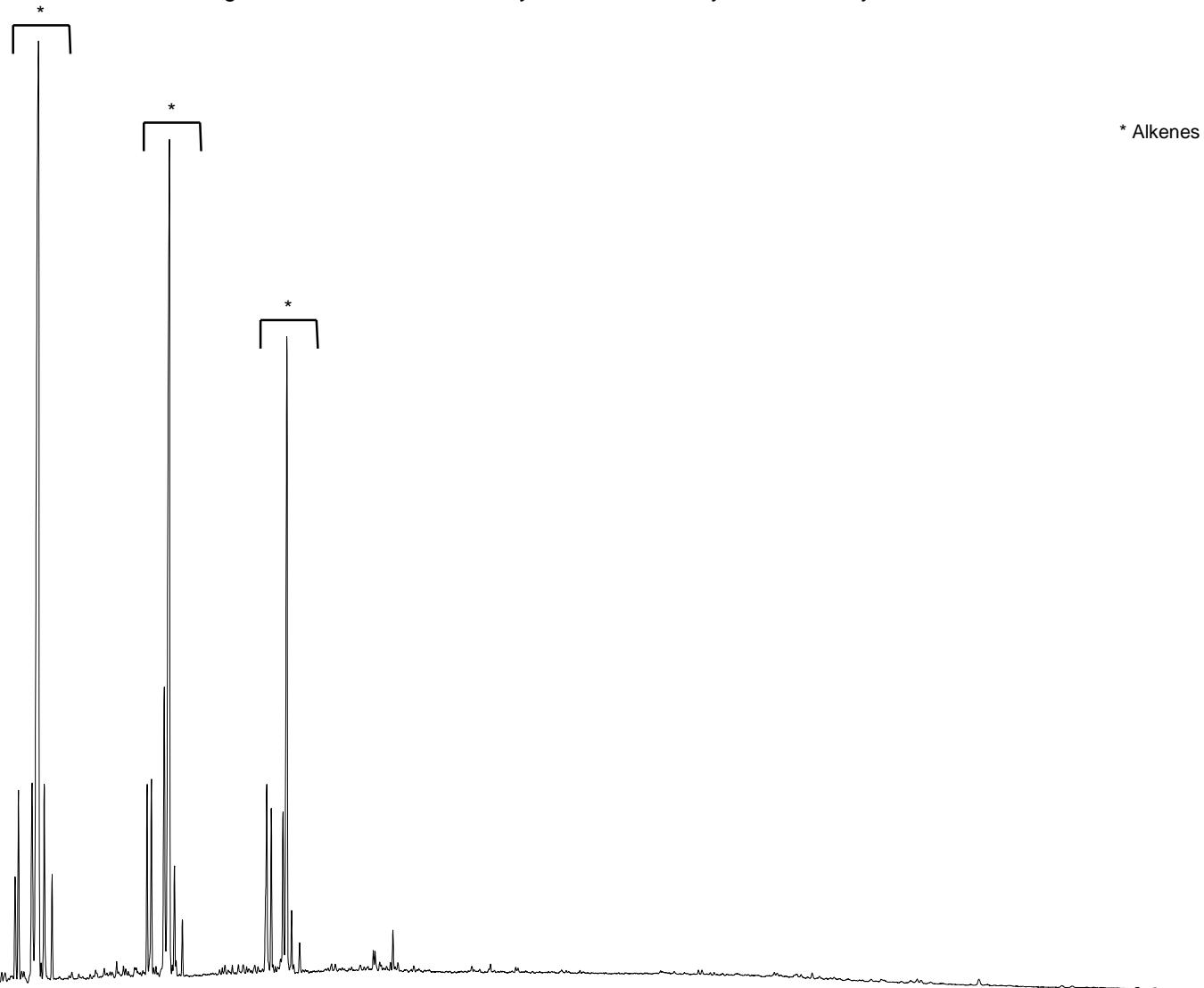
$$\text{CPI(1)} = \frac{(C_{23} + C_{25} + C_{27} + C_{29}) + (C_{25} + C_{27} + C_{29} + C_{31})}{2 \times (C_{24} + C_{26} + C_{28} + C_{30})}$$

FIGURE 2

Sample : MOBY-1, 588.5m, Test-37, Oil
File ID : 345808S

GEOTECH

Chromatogram obtained from the analysis of saturated hydrocarbons by GC-MS



* Alkenes

TABLE 3

**LIQUID CHROMATOGRAPHY DATA
OIL**

MOBY-1 (Alkenes Removed)

Yields (%) and Selected Ratios



DEPTH	Sample Type	-----Hydrocarbons-----			-----Non-hydrocarbons-----			Sats	Asph.	HC
		Sats	Aros	HC's	NSOs	Asph.	Non HC's			
588.5m, Test-37	Oil	43.5	32.0	75.5	24.5	nd	24.5	1.4	nd	3.1

TABLE 4

**ANALYSIS OF SATURATED HYDROCARBONS BY GC-MS
OIL**

MOBY-1

A. Selected Ratios



DEPTH	Sample Type	Prist./Phyt.	Prist./n-C17	Phyt./n-C18	CPI(1)	CPI(2)	(C21+C22)/(C28+C29)
588.5m, Test-37	Oil	nd	nd	nd	nd	nd	nd

MOBY-1

B. n-Alkane Distributions

DEPTH	nC12	nC13	nC14	nC15	nC16	nC17	Pr	nC18	Ph	nC19	nC20	nC21	nC22	nC23	nC24	nC25	nC26	nC27	nC28	nC29	nC30	nC31
588.5m, Test-37	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	

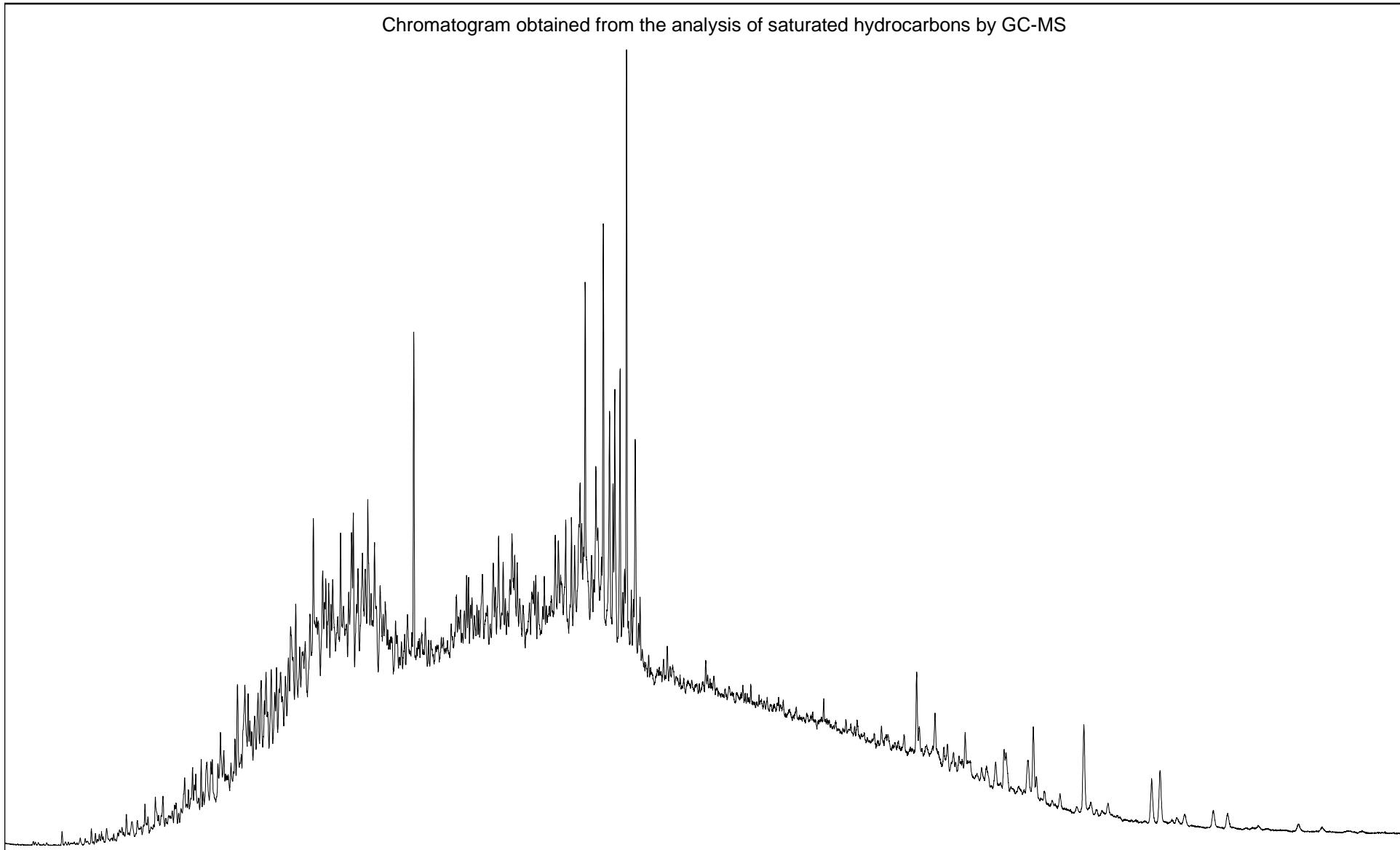
$$\text{CPI(1)} = \frac{(C_{23} + C_{25} + C_{27} + C_{29}) + (C_{25} + C_{27} + C_{29} + C_{31})}{2 \times (C_{24} + C_{26} + C_{28} + C_{30})}$$

FIGURE 3

Sample : MOBY-1, 588.5m, Test # 37, Oil (Alkenes Removed)
File ID : 345808SB

GEOTECH

Chromatogram obtained from the analysis of saturated hydrocarbons by GC-MS



GEOTECHNICAL SERVICES PTY LTD

TABLE 5

SOLVENT EXTRACTION DATA**MOBY-1**

DEPTH	Sample Type	Weight of Material Extd. (g)	Total Extract (mg)	Total Extract (ppm)
550.0m	Mud	99.8	0.5	5
560.0m	SWC	21.3	7.8	366
568.0m	SWC	18.5	113.1	6100
572.0m	SWC	21.3	19.8	930
584.0m	SWC	15.4	320.4	20792
586.0m	SWC	21.2	8.7	411
588.0m	SWC	30.1	0.2	7

FIGURE 4

Sample : MOBY-1, 550m, Mud
File ID : 345807X

GEOTECH

Chromatogram obtained from analysis of the whole extract by GC-MS

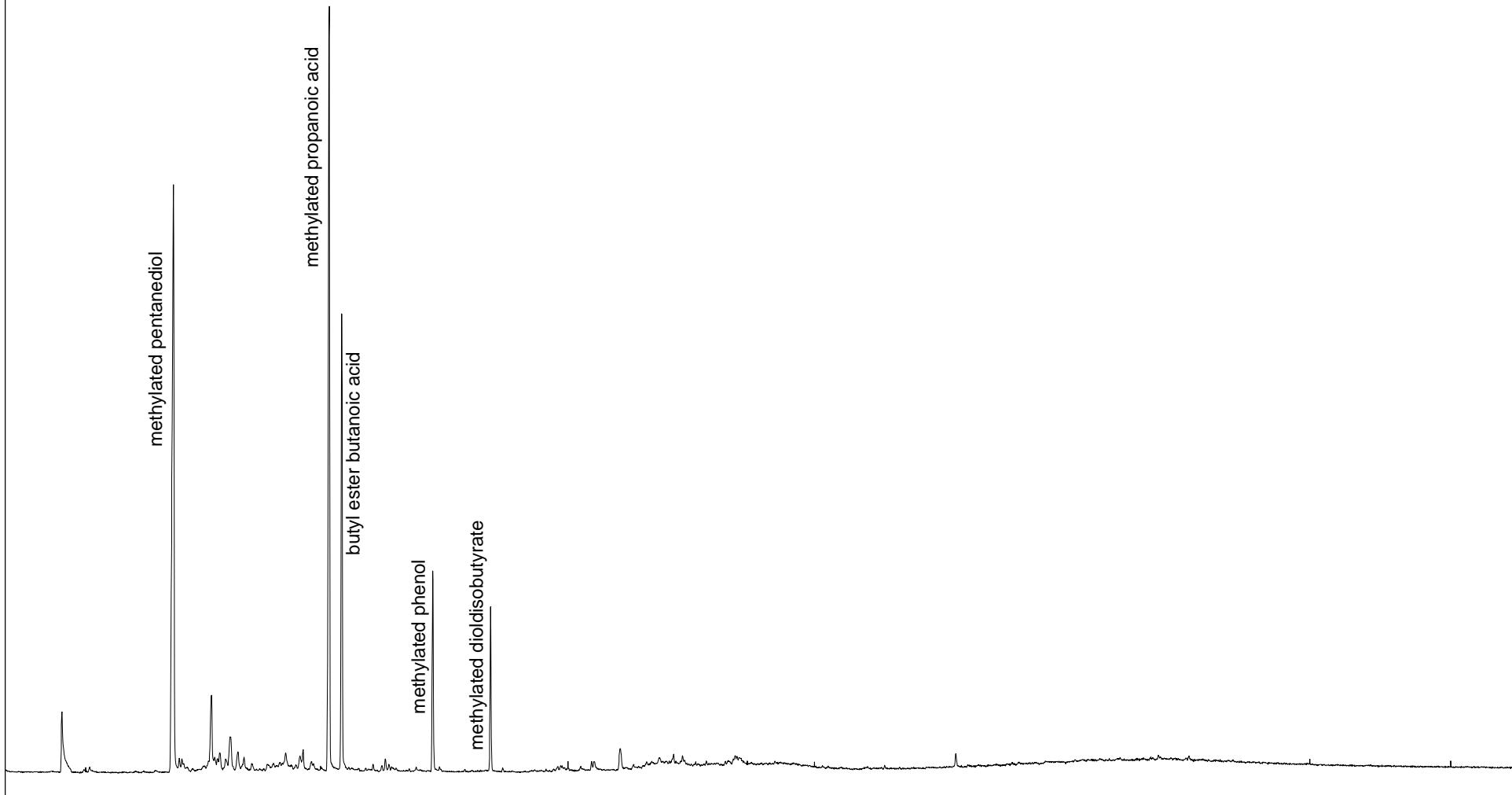
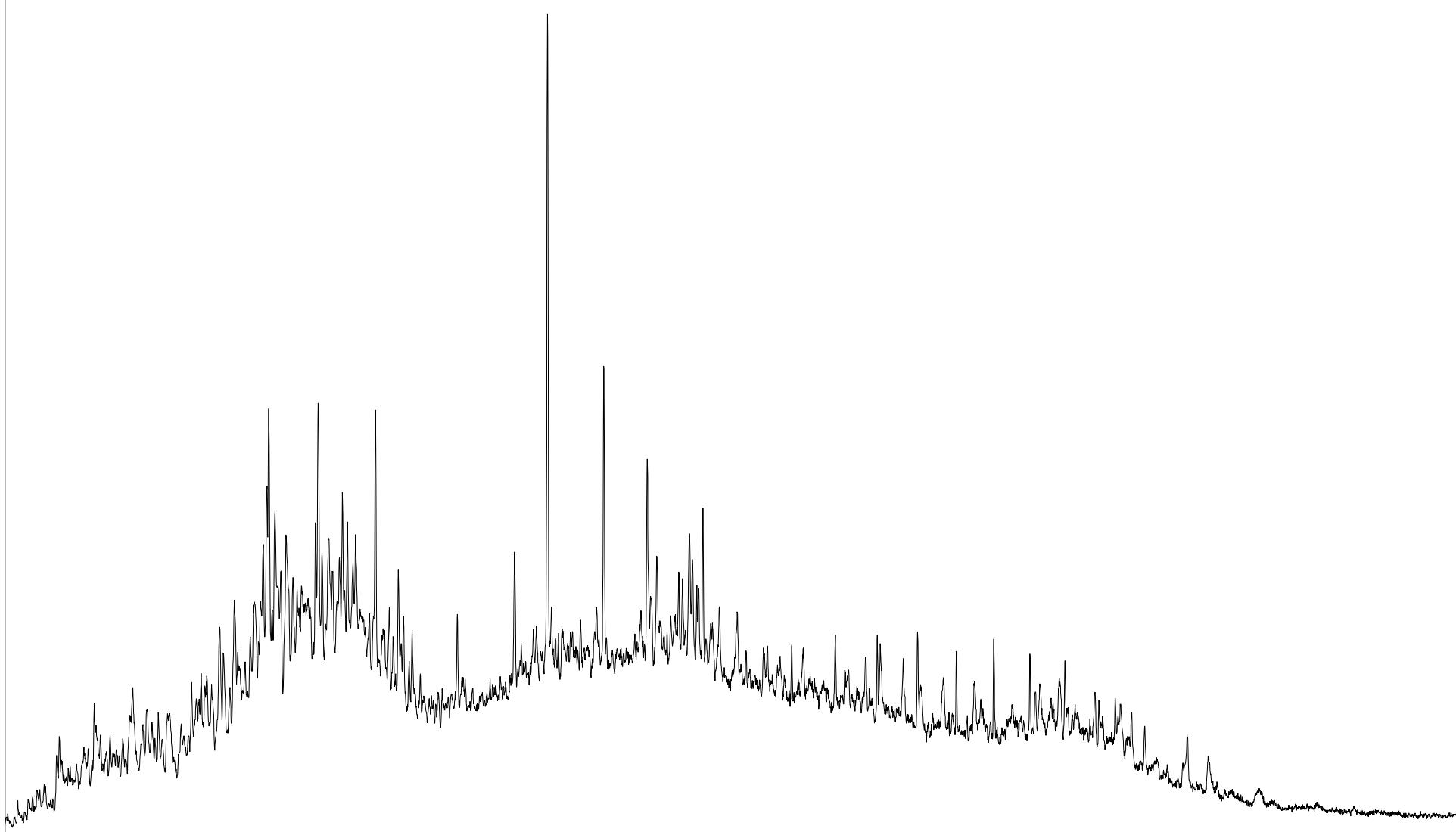


FIGURE 5

Sample : MOBY-1, 560.0m, SWC # 21
File ID : 345801XB

GEOTECH

Chromatogram obtained from analysis of the whole extract by GC-MS



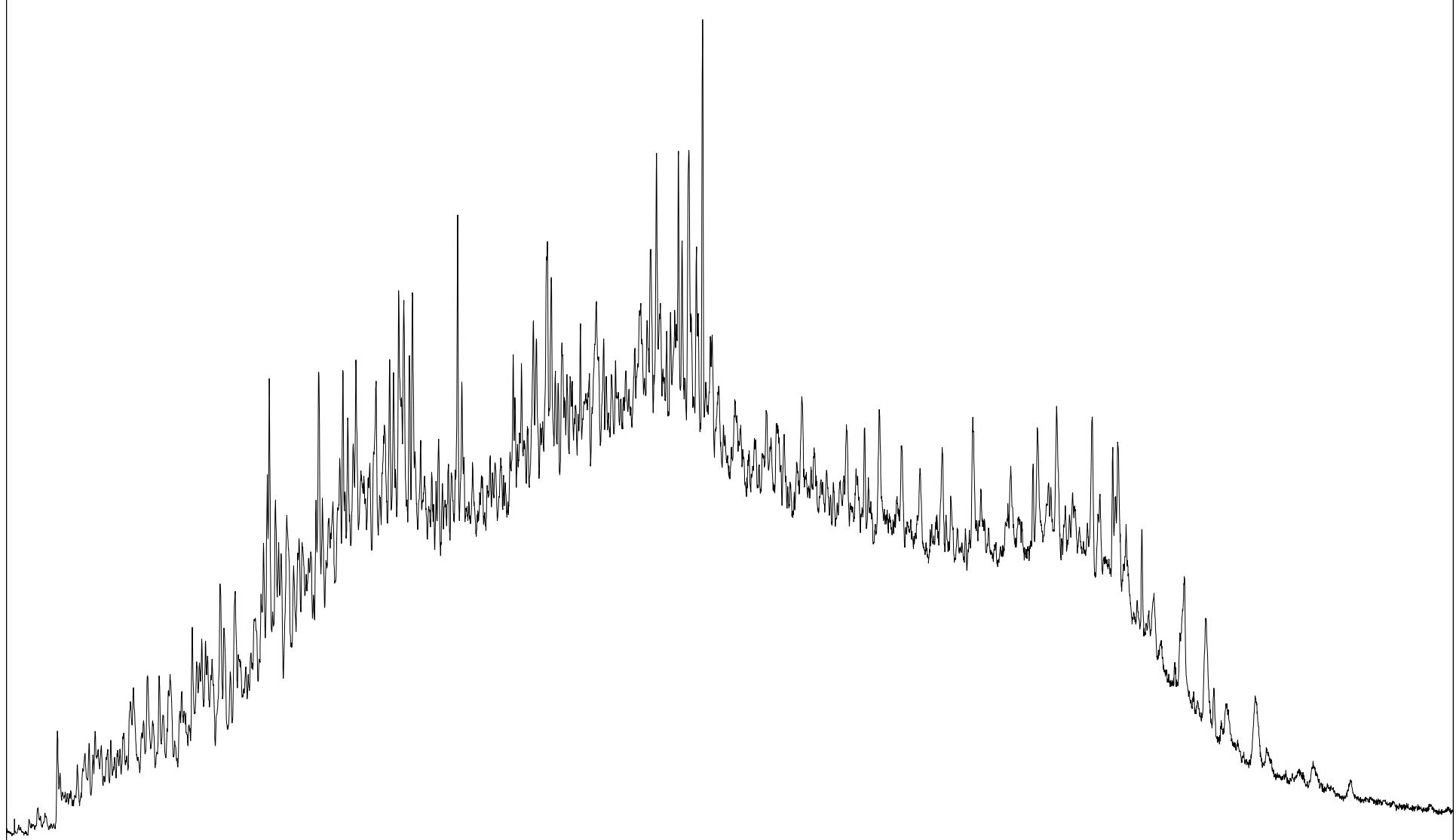
GEOTECHNICAL SERVICES PTY LTD

FIGURE 6

Sample : MOBY-1, 568.0m, SWC # 16
File ID : 345802XB

GEOTECH

Chromatogram obtained from analysis of the whole extract by GC-MS



GEOTECHNICAL SERVICES PTY LTD

FIGURE 7

Sample : MOBY-1, 572.0m, SWC # 13
File ID : 345803XB

GEOTECH

Chromatogram obtained from analysis of the whole extract by GC-MS

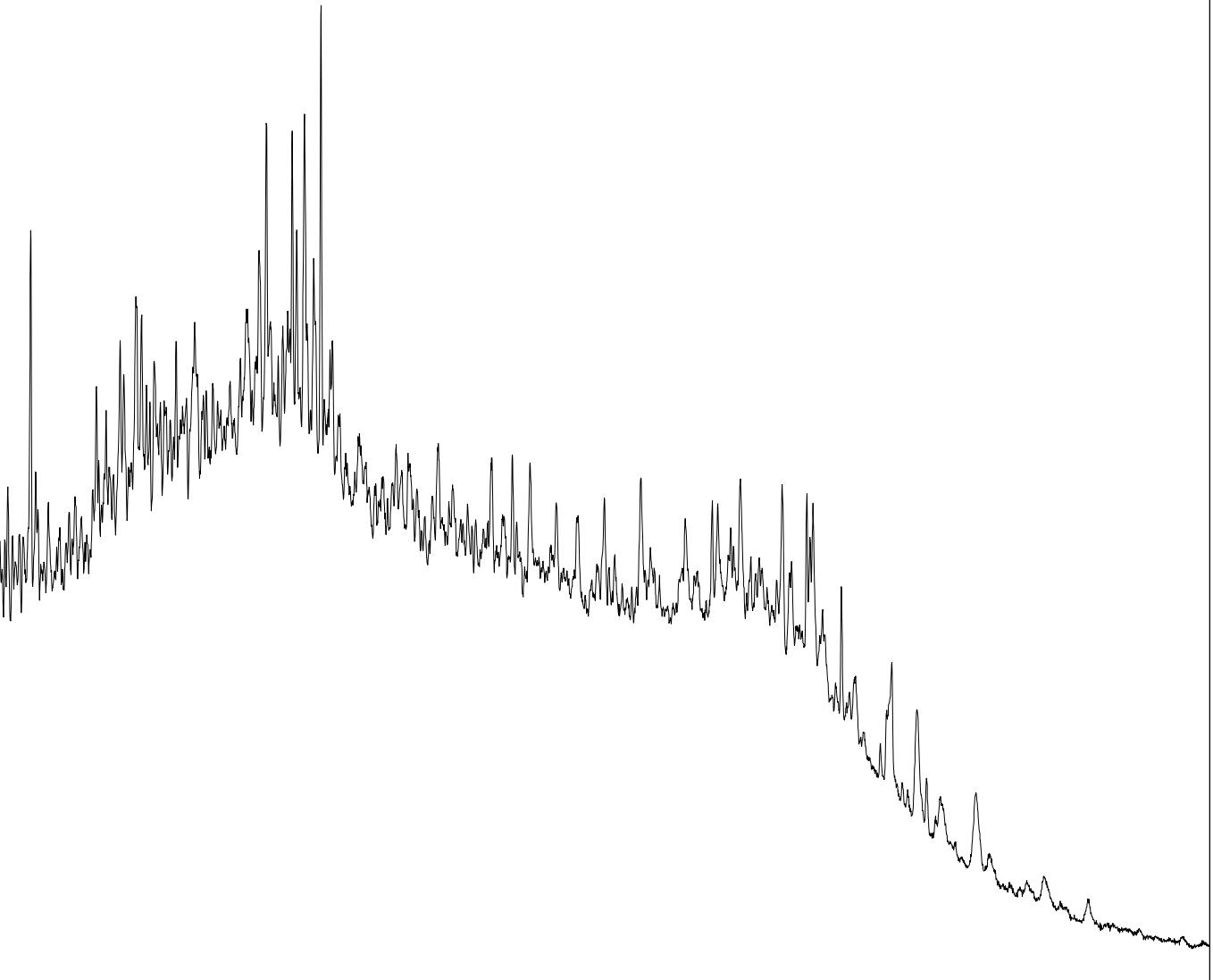
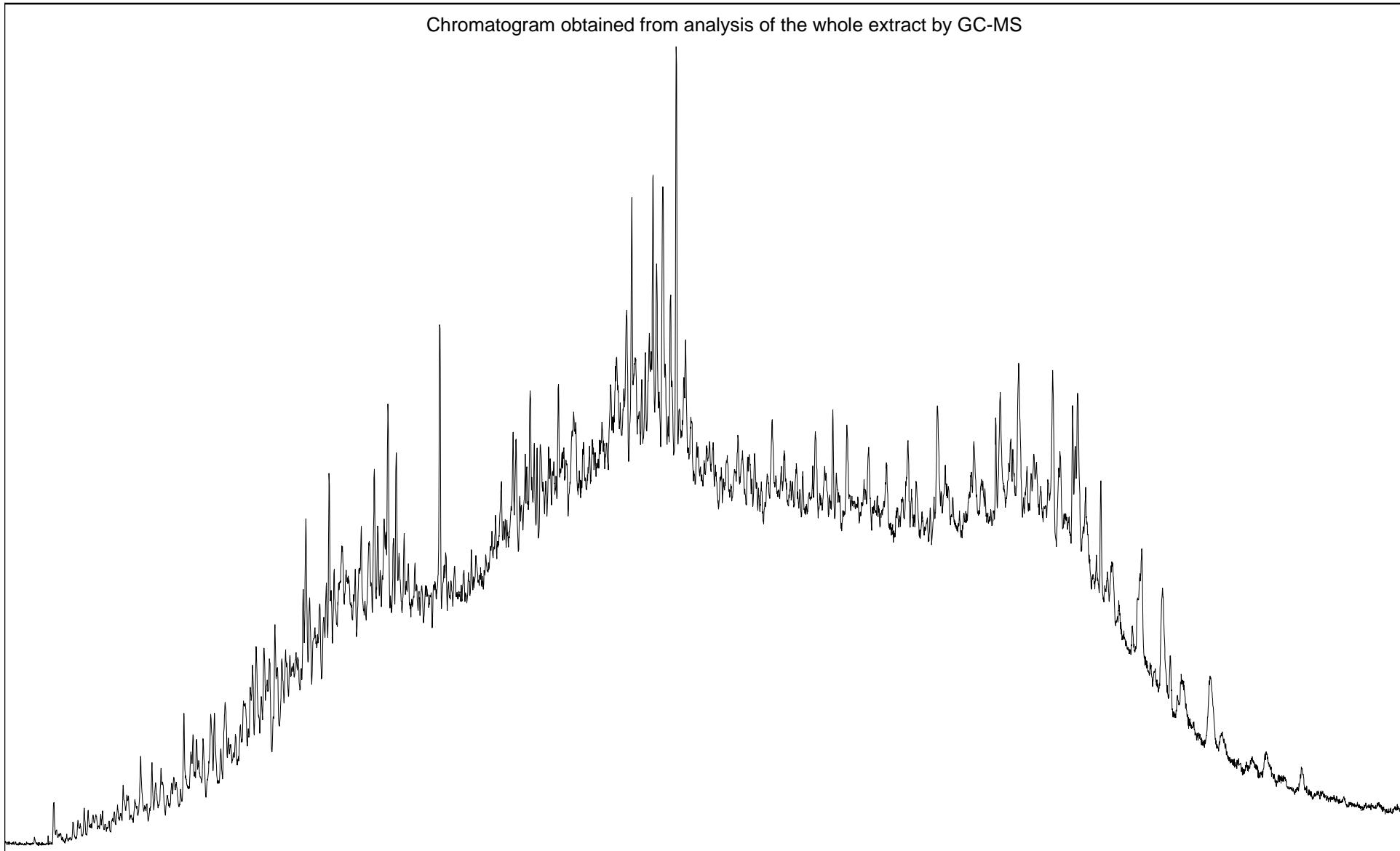


FIGURE 8

Sample : MOBY-1, 584.0m, SWC # 9
File ID : 345804XB

GEOTECH

Chromatogram obtained from analysis of the whole extract by GC-MS



GEOTECHNICAL SERVICES PTY LTD

FIGURE 9

Sample : MOBY-1, 586.0m, SWC # 7
File ID : 345805XB

GEOTECH

Chromatogram obtained from analysis of the whole extract by GC-MS

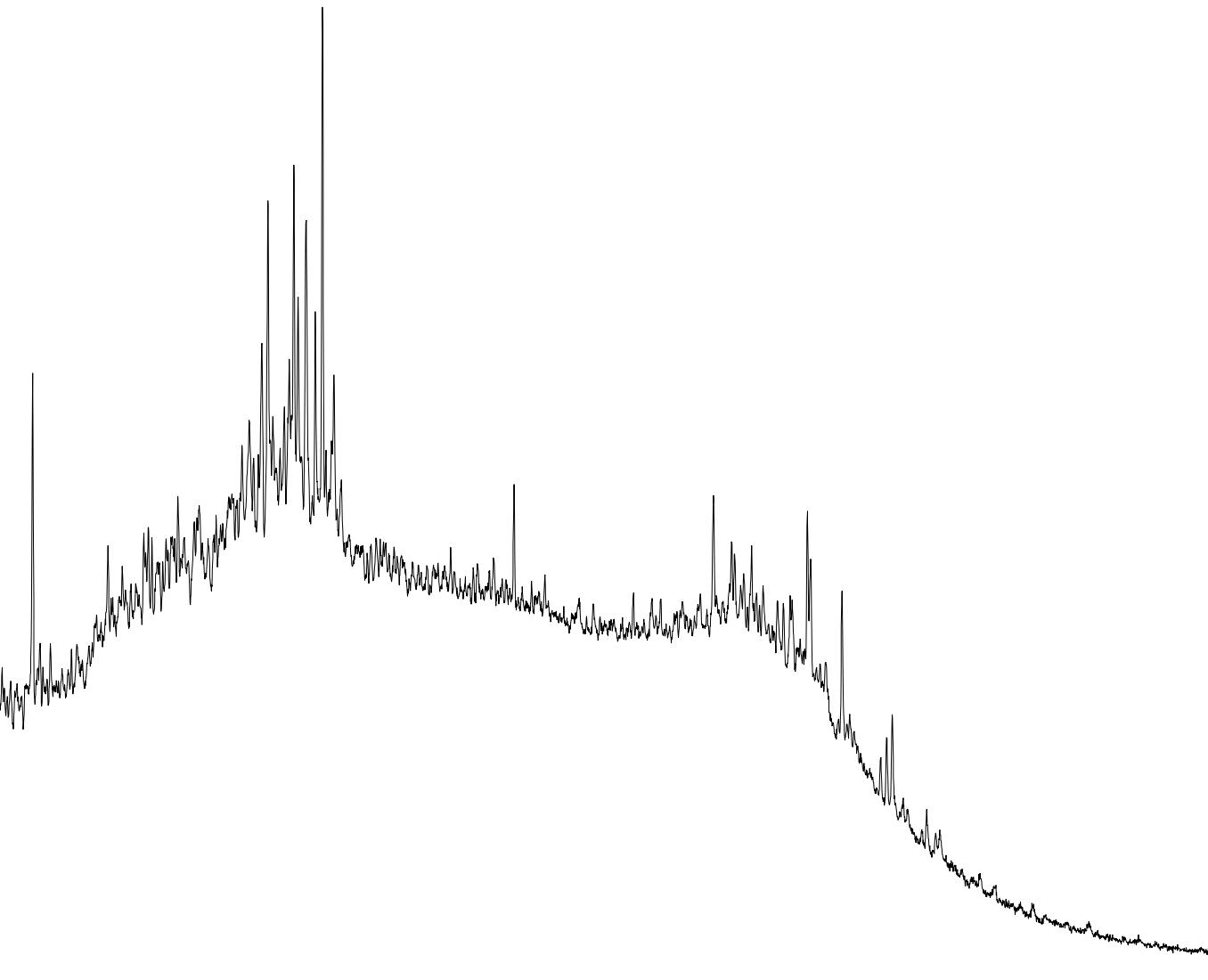


FIGURE 10

Sample : MOBY-1, 588.0m, SWC # 6
File ID : 345806XB

GEOTECH

Chromatogram obtained from analysis of the whole extract by GC-MS

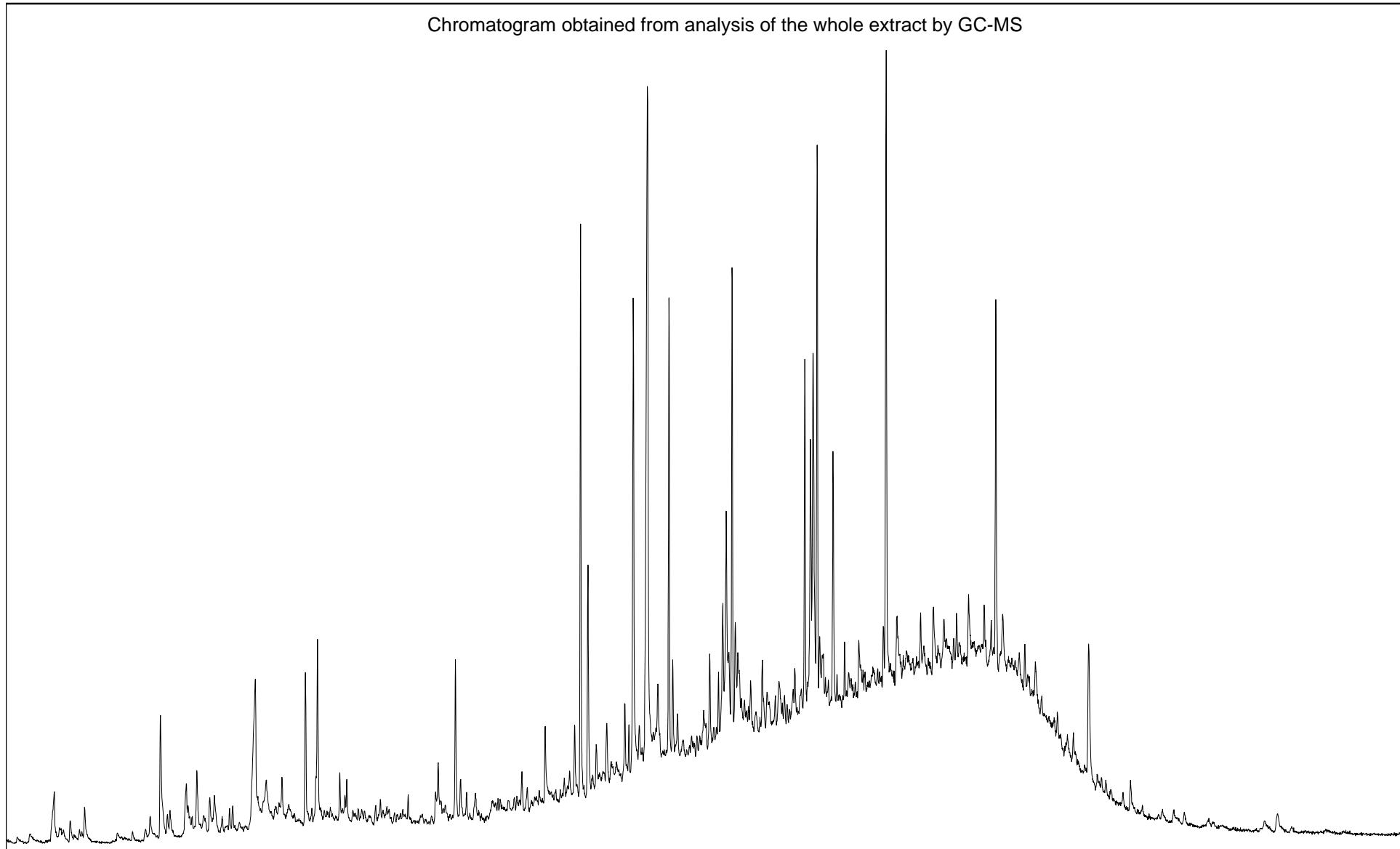


TABLE 6

**LIQUID CHROMATOGRAPHY DATA
EXTRACT**

MOBY-1

A. Yields (ppm)



DEPTH	Sample Type	-----Hydrocarbons-----			-----Non-hydrocarbons-----			Loss on column
		Sats	Aros	HC's	NSOs	Asph.	Non HC's	
550.0m	Mud	nd	nd	nd	nd	nd	nd	nd
560.0m	SWC	nd	nd	nd	nd	nd	nd	nd
568.0m	SWC	3567	1611	5178	600	nd	600	322
572.0m	SWC	456	254	710	75	nd	75	146
584.0m	SWC	11924	5811	17735	2313	nd	2313	744
586.0m	SWC	nd	nd	nd	nd	nd	nd	nd
588.0m	SWC	nd	nd	nd	nd	nd	nd	nd

MOBY-1

B. Yields (%) and Selected Ratios

DEPTH	Sample Type	-----Hydrocarbons-----			-----Non-hydrocarbons-----			Sats	Asph.	HC
		Sats	Aros	HC's	NSOs	Asph.	Non HC's			
550.0m	Mud	nd	nd	nd	nd	nd	nd	nd	nd	nd
560.0m	SWC	nd	nd	nd	nd	nd	nd	nd	nd	nd
568.0m	SWC	61.7	27.9	90	10.4	nd	10	2.2	nd	8.6
572.0m	SWC	58.1	32.3	90	9.6	nd	10	1.8	nd	9.4
584.0m	SWC	59.5	29.0	88	11.5	nd	12	2.1	nd	7.7
586.0m	SWC	nd	nd	nd	nd	nd	nd	nd	nd	nd
588.0m	SWC	nd	nd	nd	nd	nd	nd	nd	nd	nd

TABLE 7

**ANALYSIS OF SATURATED HYDROCARBONS BY GC-MS
EXTRACT**

MOBY-1**A. Selected Ratios**

DEPTH	Sample Type	Prist./Phyt.	Prist./n-C17	Phyt./n-C18	CPI(1)	CPI(2)	(C21+C22)/(C28+C29)
550.0m	Mud	nd	nd	nd	nd	nd	nd
560.0m	SWC	1.82	nd	nd	nd	nd	nd
568.0m	SWC	nd	nd	nd	nd	nd	nd
572.0m	SWC	nd	nd	nd	nd	nd	nd
584.0m	SWC	nd	nd	nd	nd	nd	nd
586.0m	SWC	nd	nd	nd	nd	nd	nd
588.0m	SWC	nd	nd	nd	nd	nd	nd

MOBY-1**B. n-Alkane Distributions**

DEPTH	nC12	nC13	nC14	nC15	nC16	nC17	Pr	nC18	Ph	nC19	nC20	nC21	nC22	nC23	nC24	nC25	nC26	nC27	nC28	nC29	nC30	nC31
550.0m	nd																					
560.0m	nd	nd	nd	nd	nd	nd	36.8	nd	20.2	15.8	nd	nd	4.3	4.1	4.0	4.7	4.5	5.7	nd	nd	nd	nd
568.0m	nd	41.1	58.9	nd																		
572.0m	nd																					
584.0m	nd																					
586.0m	nd																					
588.0m	nd																					

$$\text{CPI(1)} = \frac{(C_{23}+C_{25}+C_{27}+C_{29})+(C_{25}+C_{27}+C_{29}+C_{31})}{2 \times (C_{24}+C_{26}+C_{28}+C_{30})}$$

11/02/2005
nd = no data

$$\text{CPI(2)} = \frac{(C_{23}+C_{25}+C_{27})+(C_{25}+C_{27}+C_{29})}{2 \times (C_{24}+C_{26}+C_{28})}$$

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FIGURE 11

Sample : MOBY-1, 560.0m, SWC
File ID : 345801SB

GEOTECH

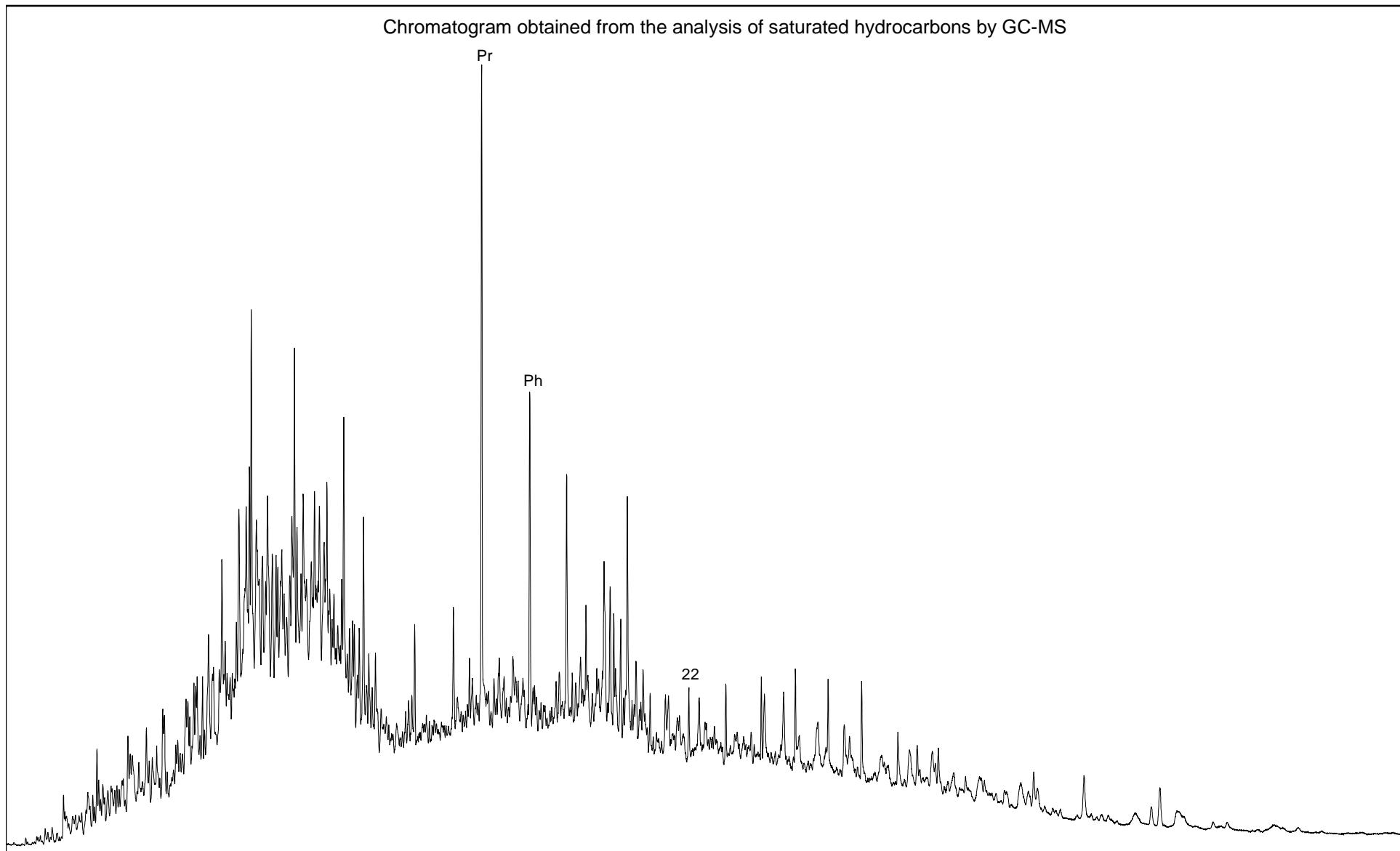


FIGURE 12

Sample : MOBY-1, 568.0m, SWC
File ID : 345802SB

GEOTECH

Chromatogram obtained from the analysis of saturated hydrocarbons by GC-MS

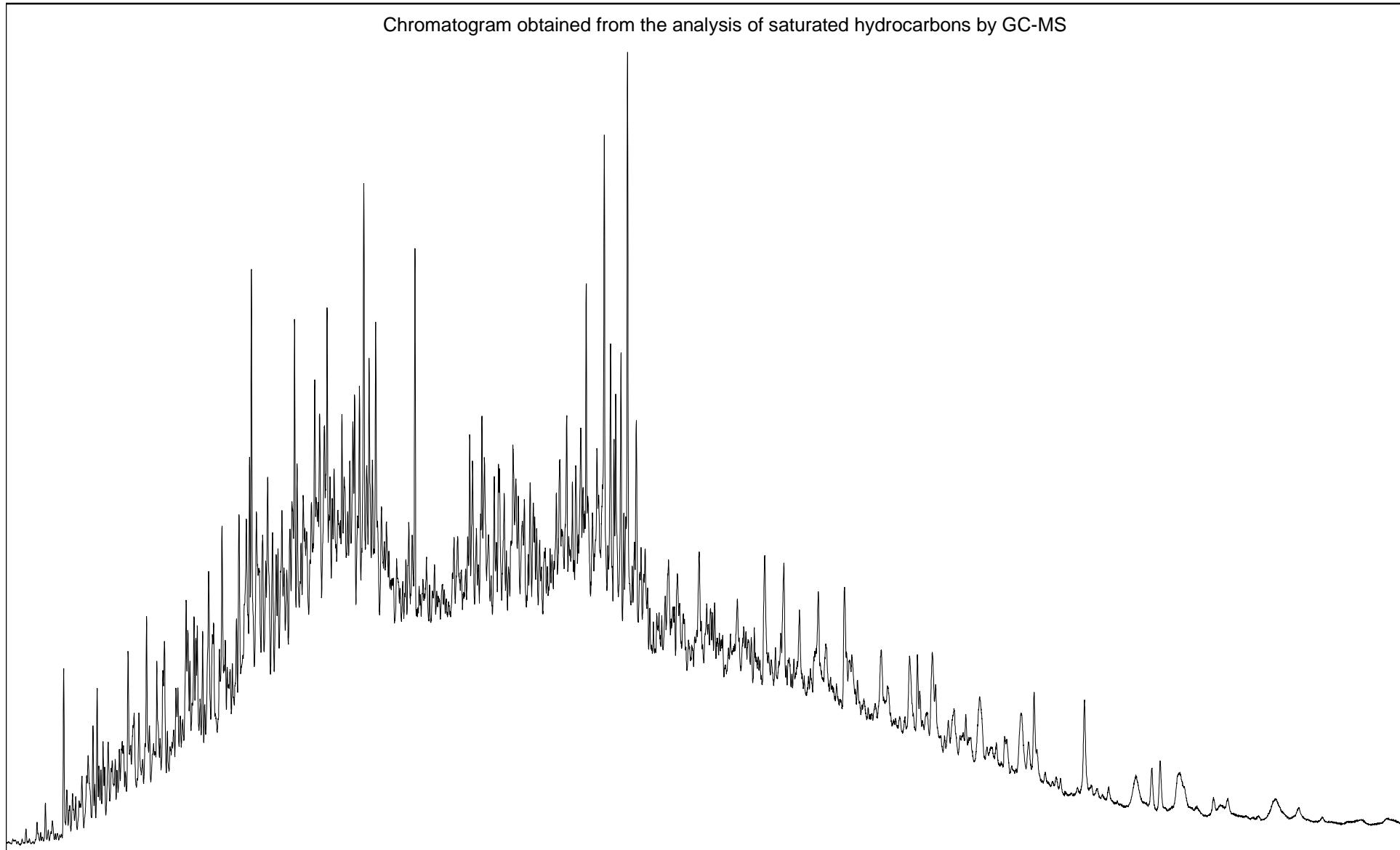
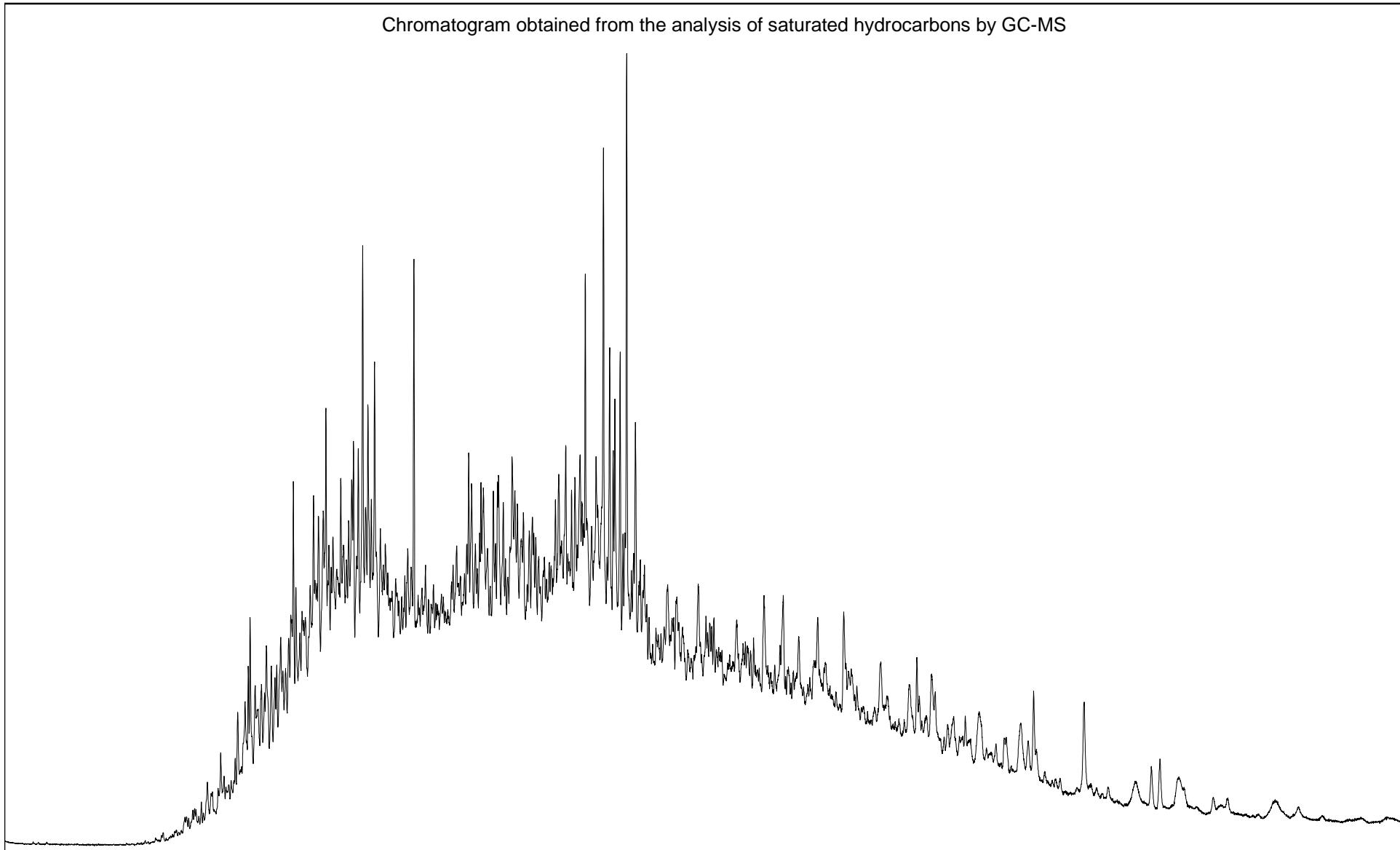


FIGURE 13

Sample : MOBY-1, 572.0m, SWC
File ID : 345803SB

GEOTECH

Chromatogram obtained from the analysis of saturated hydrocarbons by GC-MS



GEOTECHNICAL SERVICES PTY LTD

FIGURE 14

Sample : MOBY-1, 584.0m, SWC
File ID : 345804SB

GEOTECH

Chromatogram obtained from the analysis of saturated hydrocarbons by GC-MS

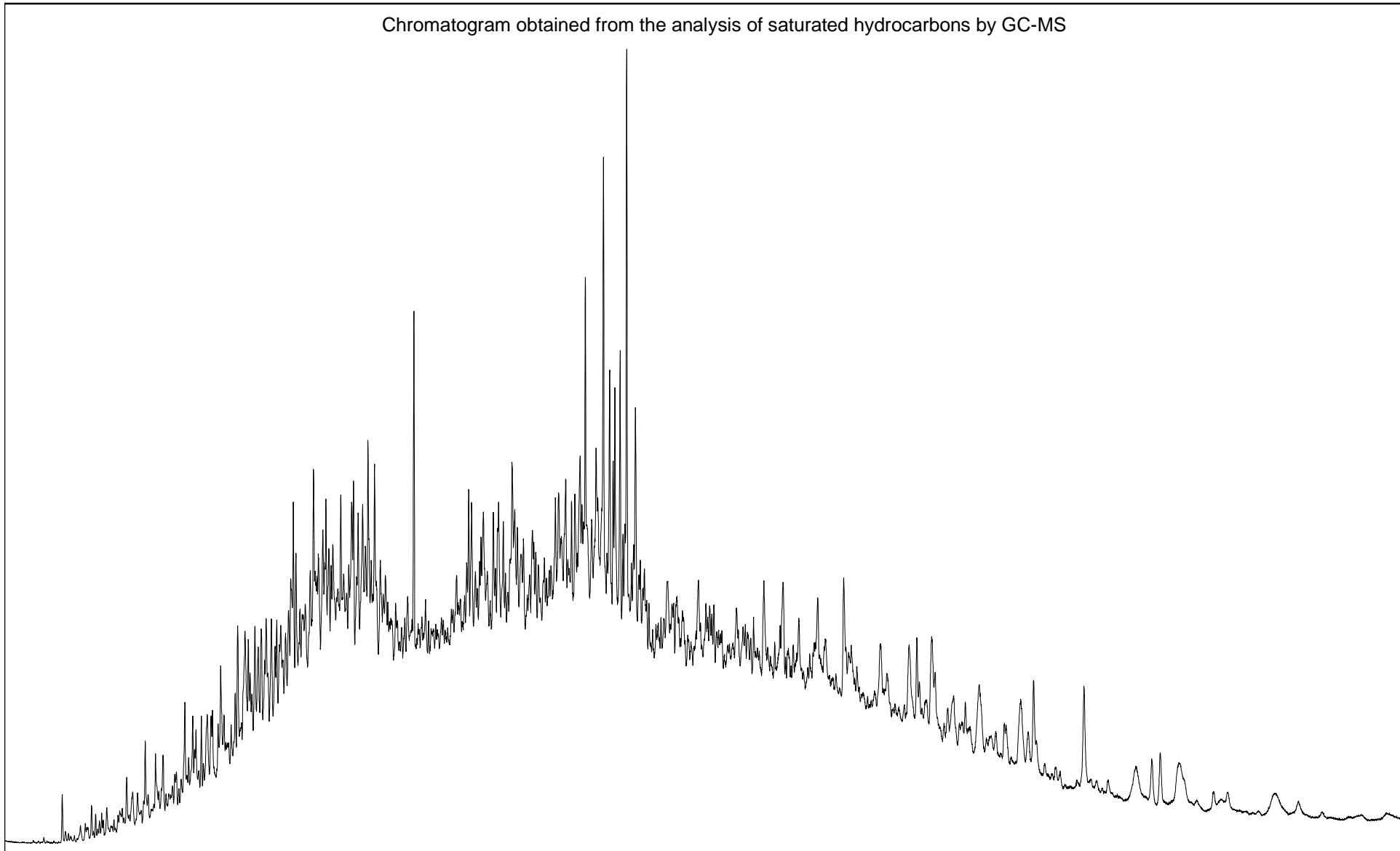
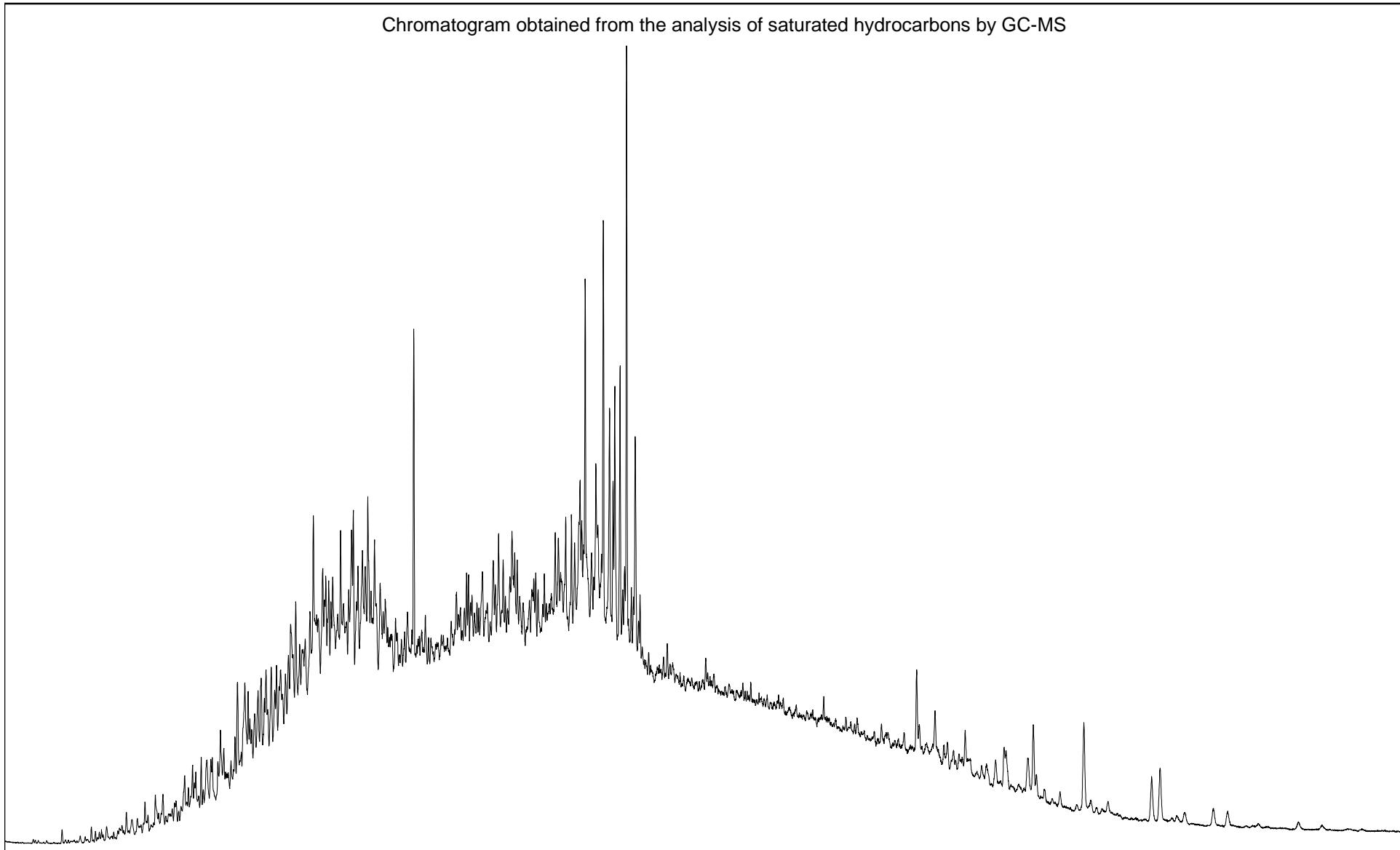


FIGURE 15

Sample : MOBY-1, 586.0m, SWC
File ID : 345805SB

GEOTECH

Chromatogram obtained from the analysis of saturated hydrocarbons by GC-MS



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TABLE 8

ANALYSIS OF AROMATIC HYDROCARBONS BY GC-MS

MOBY-1

DEPTH	TYPE	DNR-1	DNR-5	DNR-6	TNR-1	TNR-5	TNR-6	MPR-1	MPI-1	MPI-2	Rc(a)	Rc(b)
560m	SWC 21	2.02	nd	1.14	1.30	3.64	0.85	5.87	0.89	0.85	0.94	1.76
586m	SWC 7	nd										

response factors have not been applied to these ratios

MOBY-1

DEPTH	TYPE	1,7-DMP/X (m/z 206)	RETENE/9-MP (m/z 219,192)	1MP/9MP	HPI
560m	SWC 21	0.15	nd	0.17	1.10
586m	SWC 7	nd	nd	nd	nd

HPI = Higher Plant Index (i.e (retene + cadalene + iHMN-IV)/1,3,6,7-TeMN))

FIGURE 16A-1

Sample: MOBY-1, 560.0m, SWC

File ID: 345801AB

GEOTECH

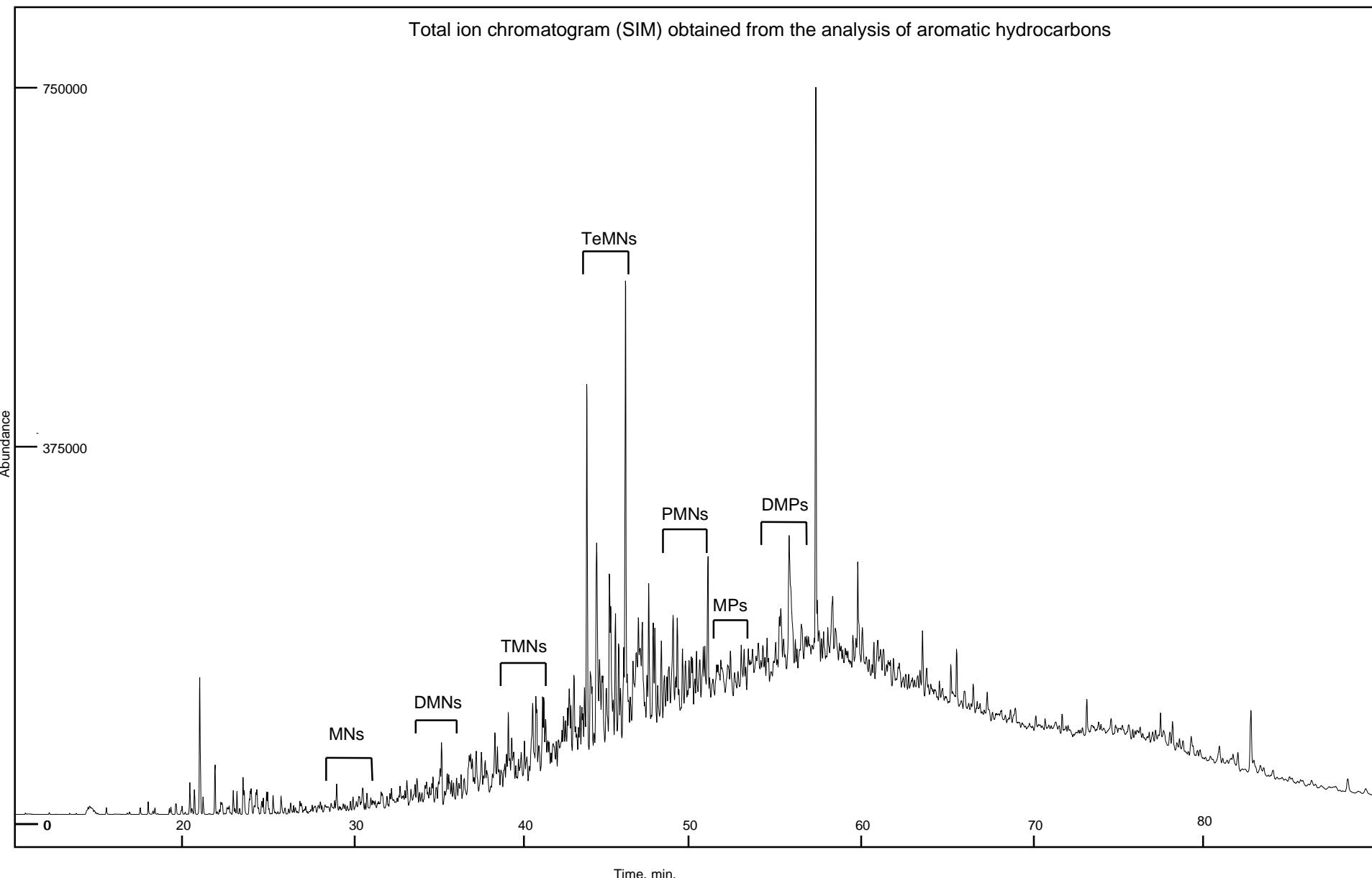


FIGURE 16B-1

Sample: MOBY-1, 560.0m, SWC

File ID: 345801AB

GEOTECH

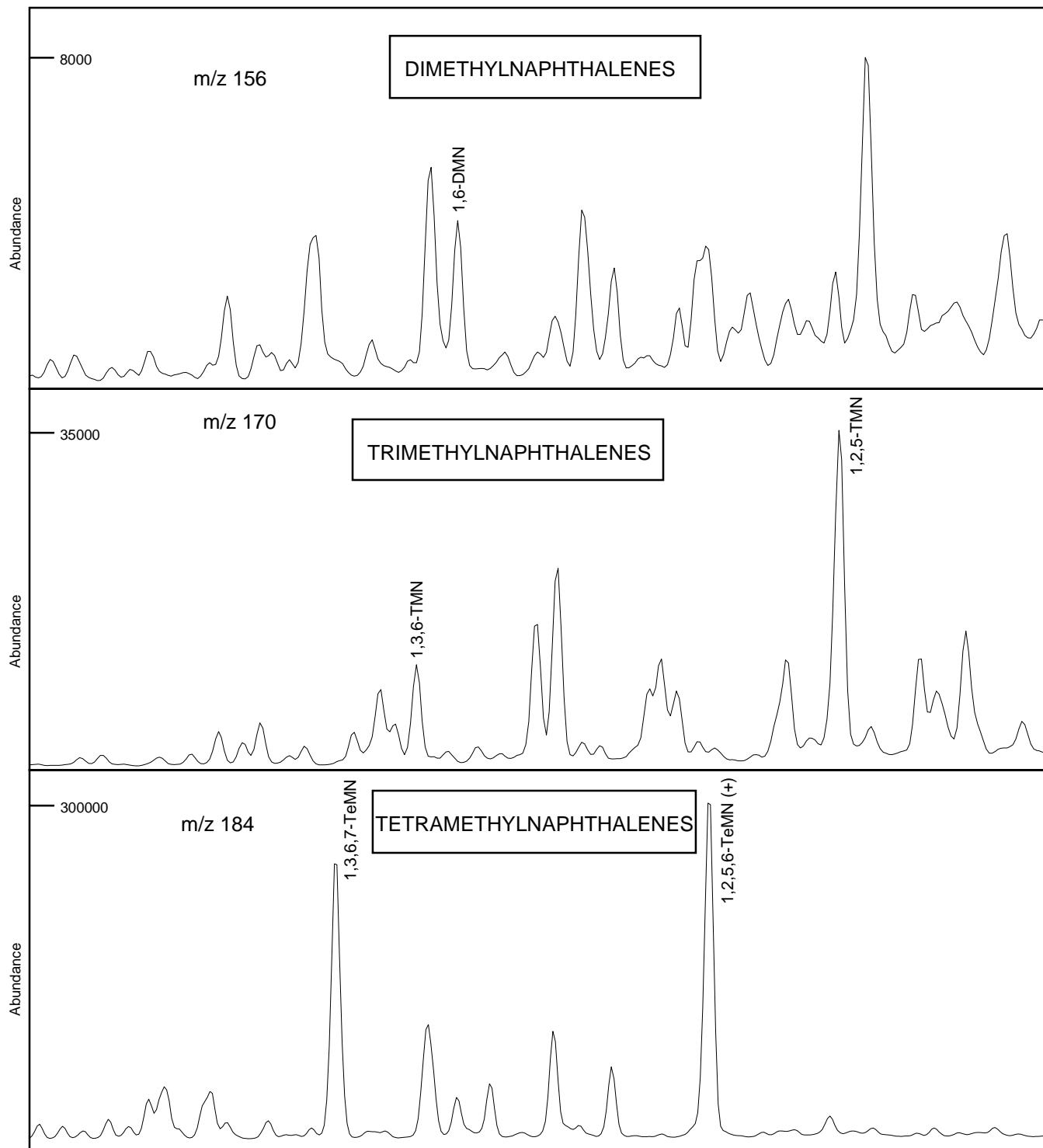


FIGURE 16C-1

Sample: MOBY-1, 560.0m, SWC

File ID: 345801AB

GEOTECH

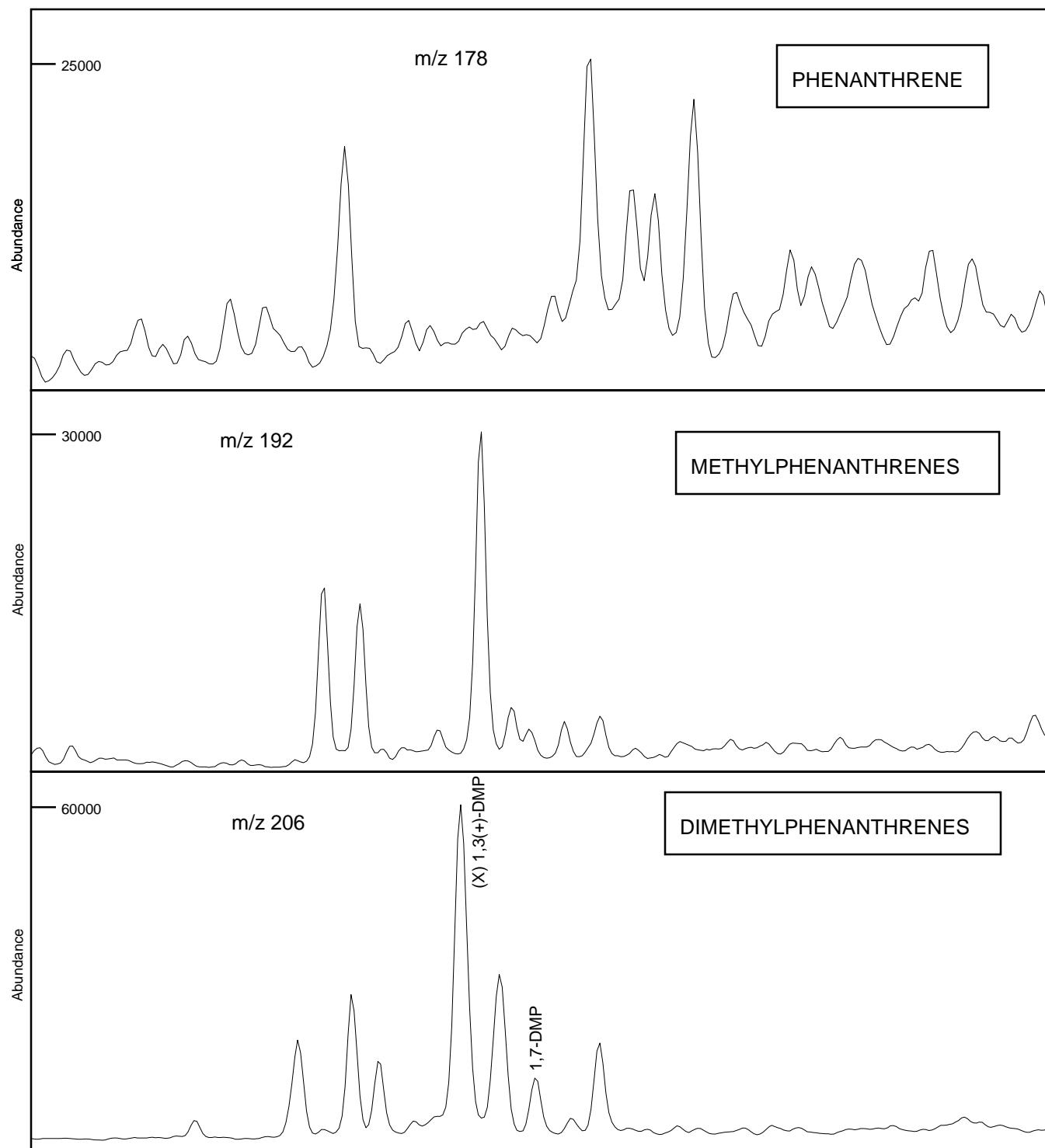


FIGURE 16D-1

Sample: MOBY-1, 560.0m, SWC

File ID: 345801AB

GEOTECH

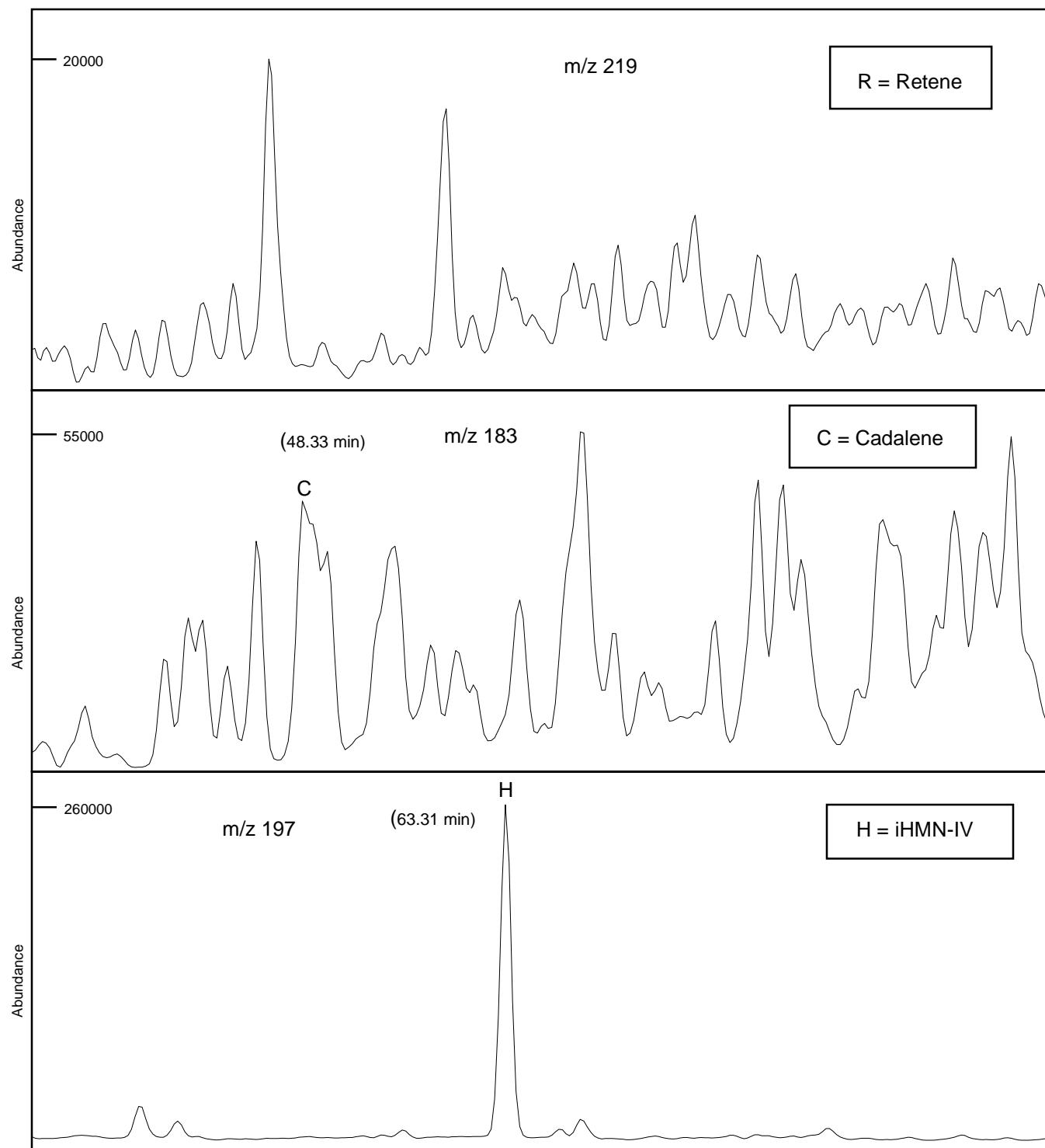


FIGURE 16E-1

Sample: MOBY-1, 560.0m, SWC

File ID: 345801AB

GEOTECH

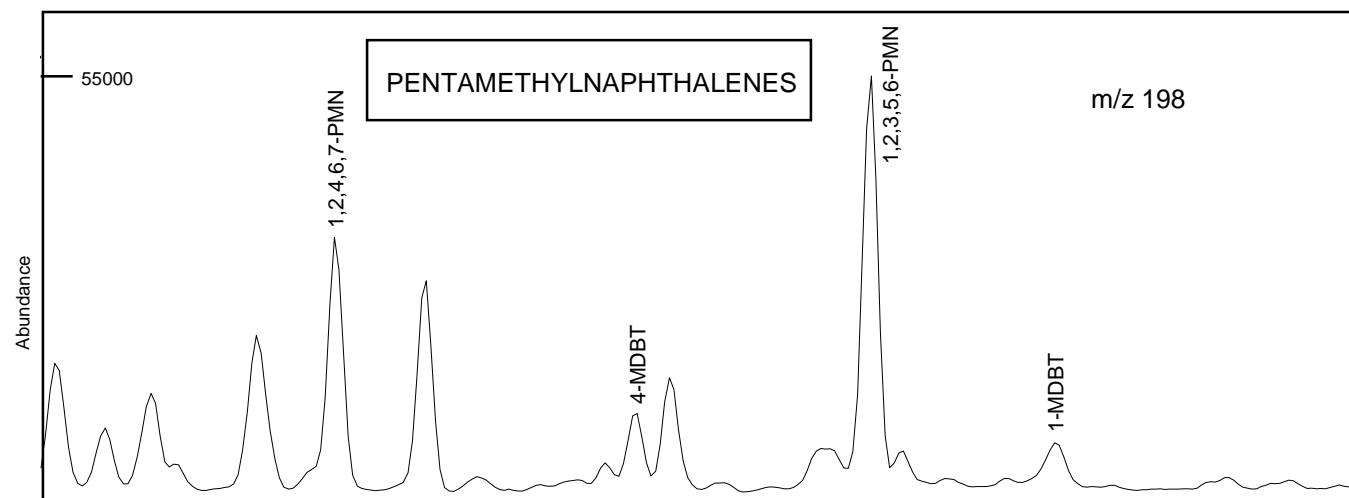


FIGURE 16A-2

Sample: MOBY-1, 586.0m, SWC

File ID: 345805AB

GEOTECH

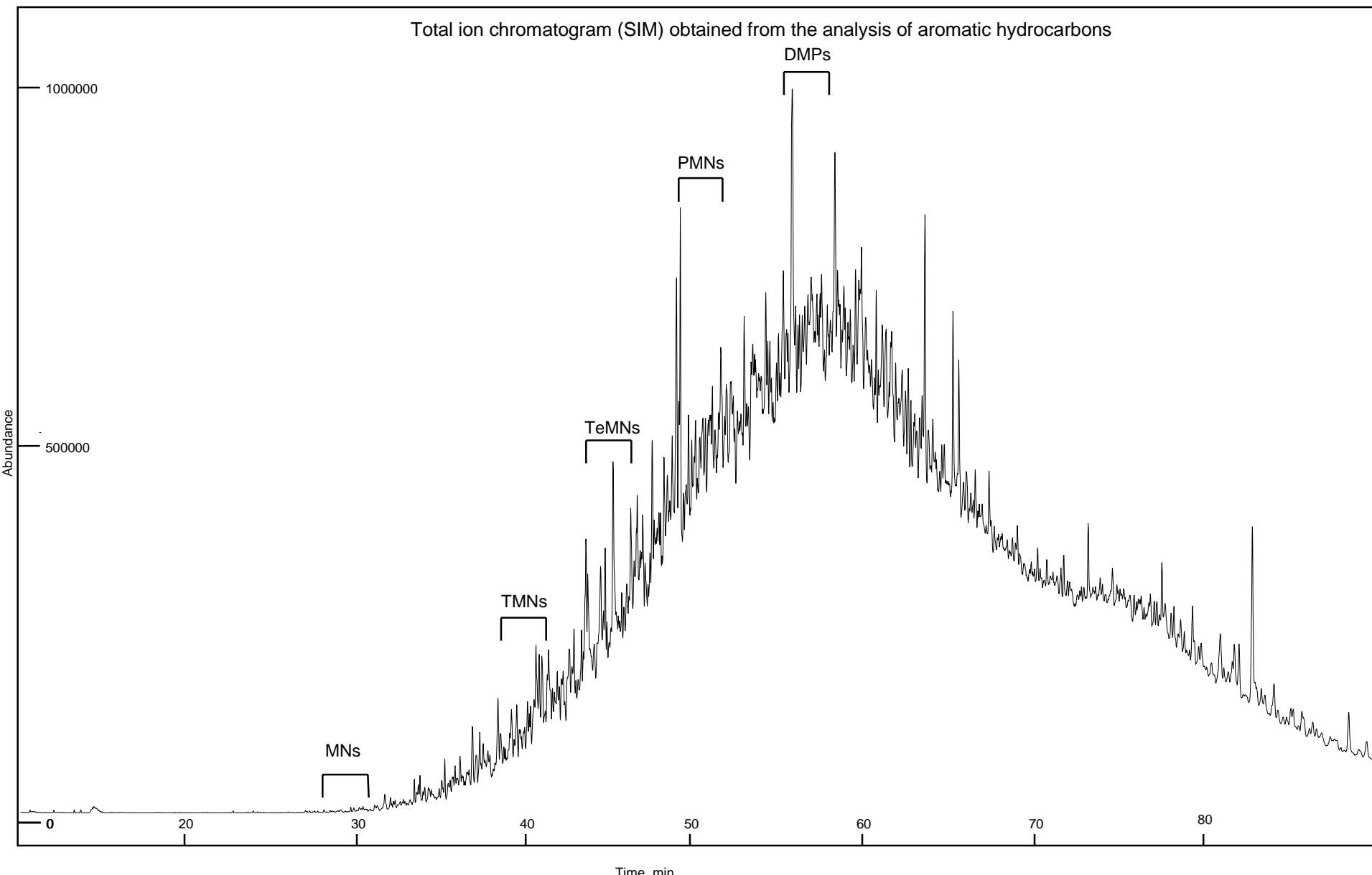


FIGURE 16B-2

Sample: MOBY-1, 586.0m, SWC

File ID: 345805AB

GEOTECH

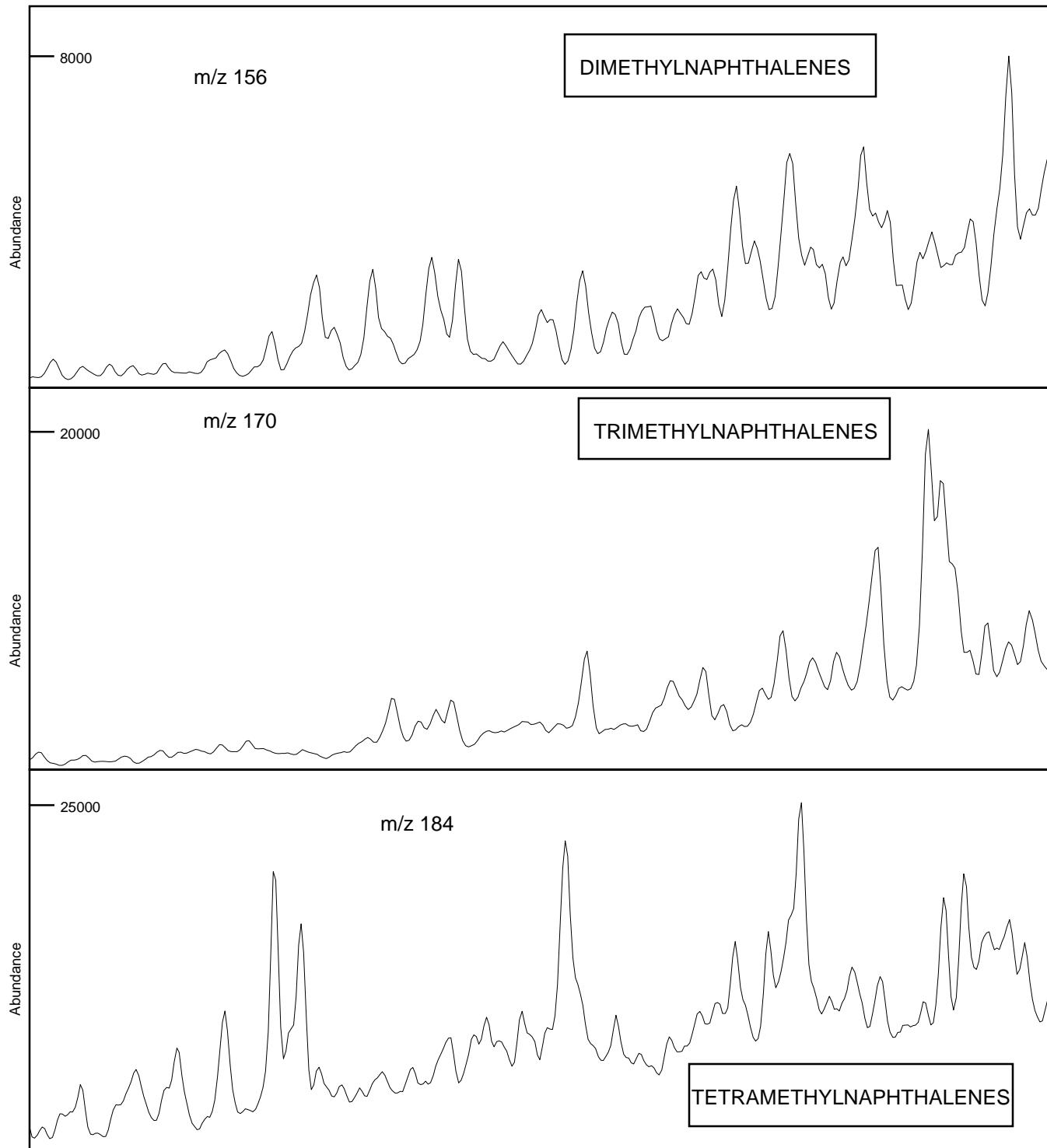


FIGURE 16C-2

Sample: MOBY-1, 586.0m, SWC

File ID: 345805AB

GEOTECH

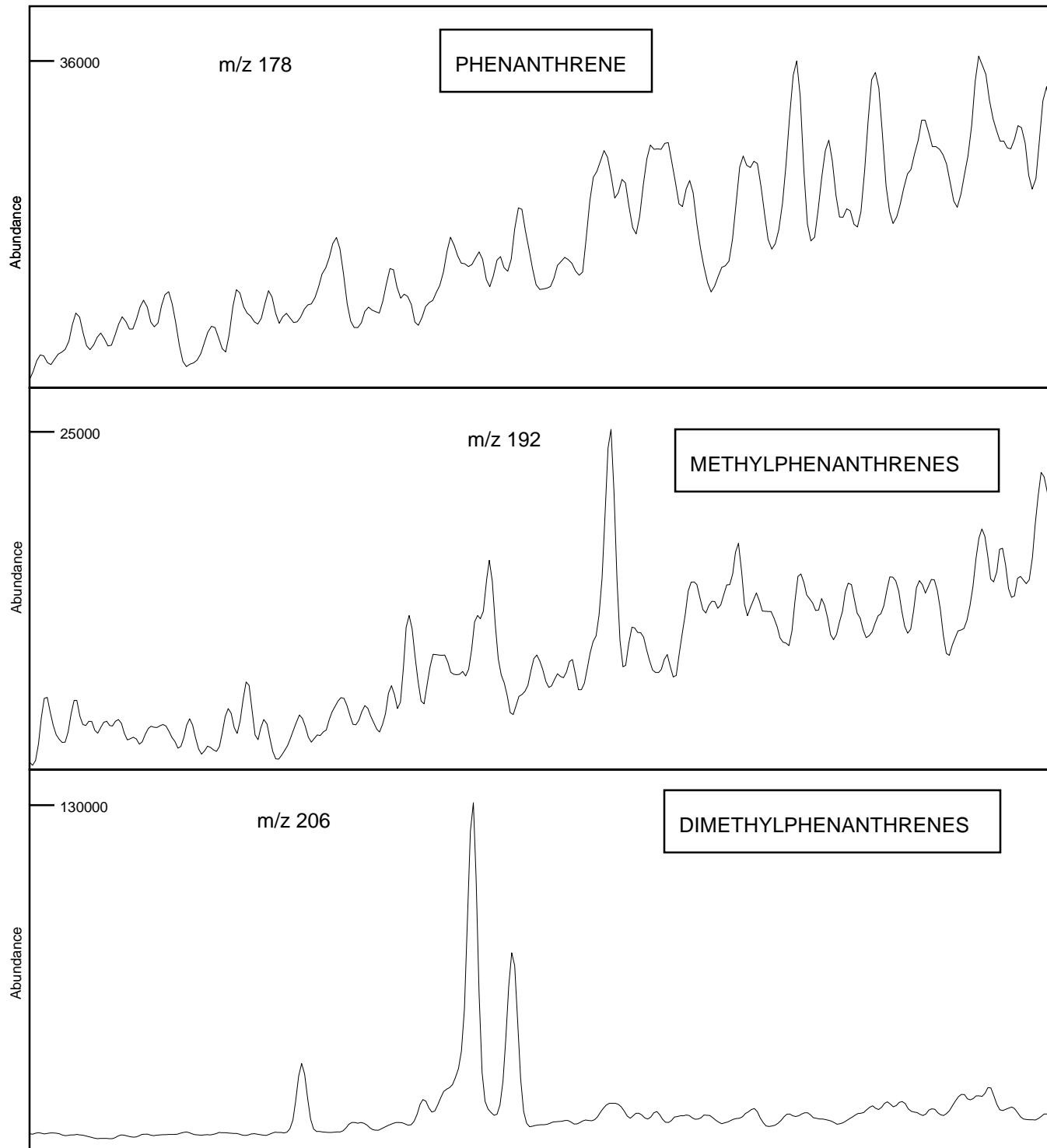


FIGURE 16D-2

Sample: MOBY-1, 586.0m, SWC

File ID: 345805AB

GEOTECH

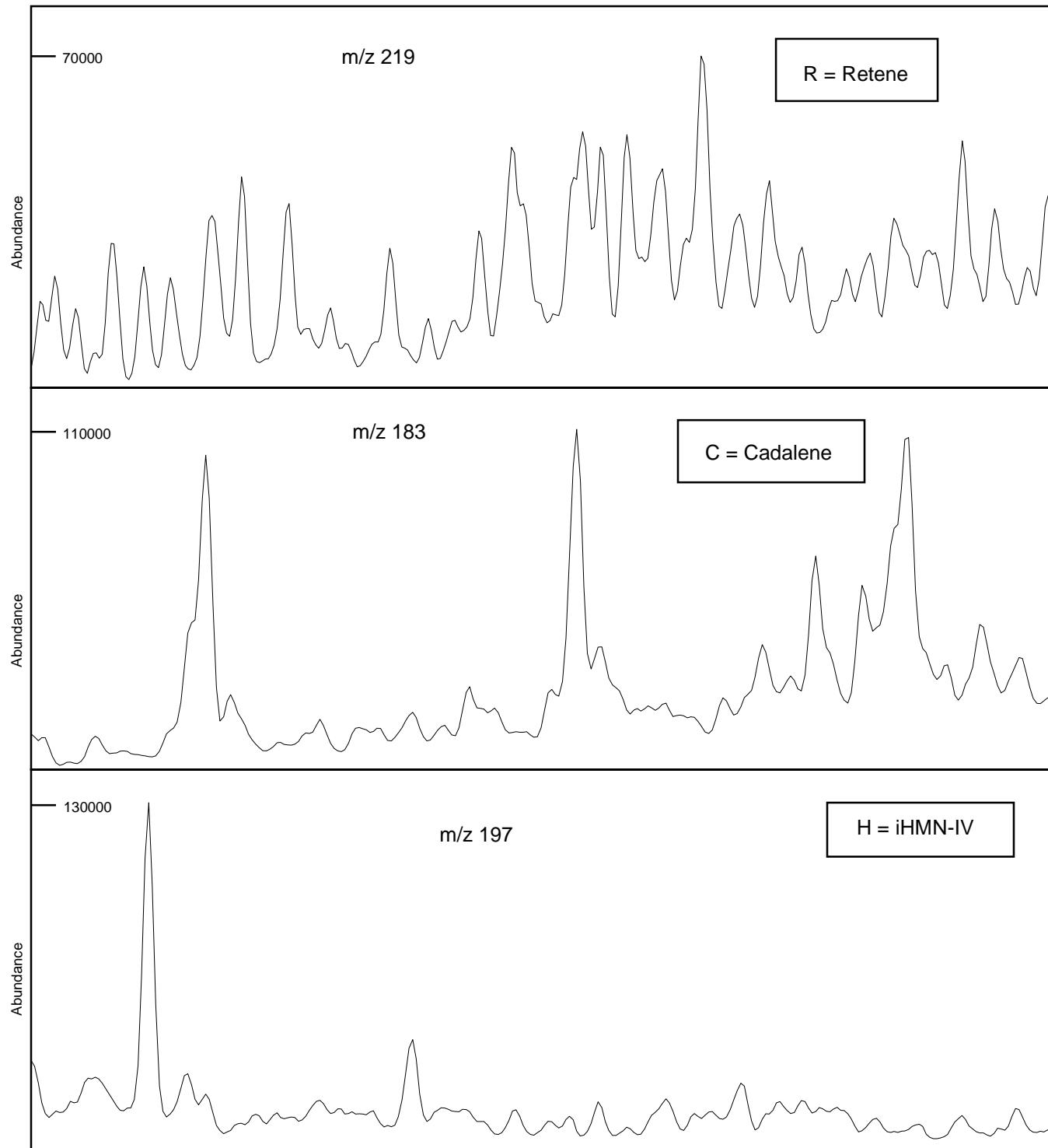


FIGURE 16E-2

Sample: MOBY-1, 586.0m, SWC

File ID: 345805AB

GEOTECH

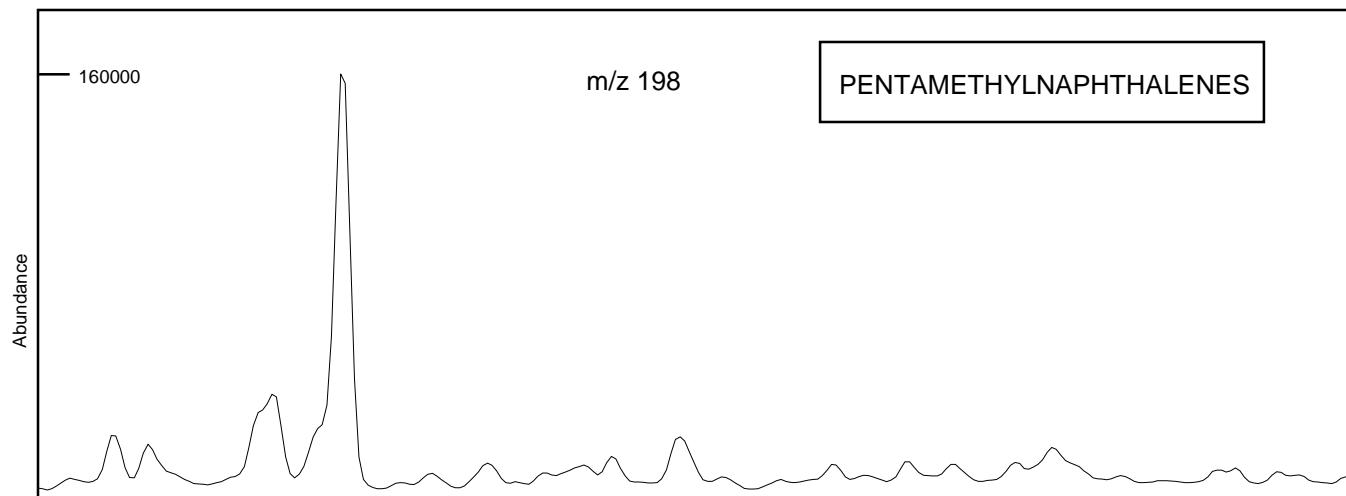


TABLE 9-1

ANALYSIS OF BRANCHED AND CYCLIC SATURATED HYDROCARBONS BY GC-MS

MOBY-1, 560.0m, SWC



	<i>Selected Parameters</i>	<i>Ion(s)</i>	<i>Value</i>
1.	18 α (H)-hopane/17 α (H)-hopane (Ts/Tm)	191	0.37
2.	C30 hopane/C30 moretane	191	5.85
3.	C31 22S hopane/C31 22R hopane	191	0.53
4.	C32 22S hopane/C32 22R hopane	191	0.97
5.	C29 20S $\alpha\alpha\alpha$ sterane/C29 20R $\alpha\alpha\alpha$ sterane	217	0.76
6.	C29 $\alpha\alpha\alpha$ steranes (20S / 20S+20R)	217	0.43
7.	C29 $\alpha\beta\beta$ steranes	217	0.50
8.	C29 $\alpha\alpha\alpha$ steranes + C29 $\alpha\beta\beta$ steranes	259	0.08
9.	C27/C29 diasteranes	217	0.24
10.	18 α (H)-oleanane/C30 hopane	191	nd
11.	C29 diasteranes	217	0.76
12.	C30 (hopane + moretane)	191/217	1.18
13.	C29 (steranes + diasteranes)	123	0.54
14.	C15 drimane/C16 homodrimane	123	0.69
	Rearranged drimananes/normal drimananes		

nd = no data

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FIGURE 17A-1

Sample : MOBY-1, 560.0m, SWC

File ID : 345801B

GEOTECH

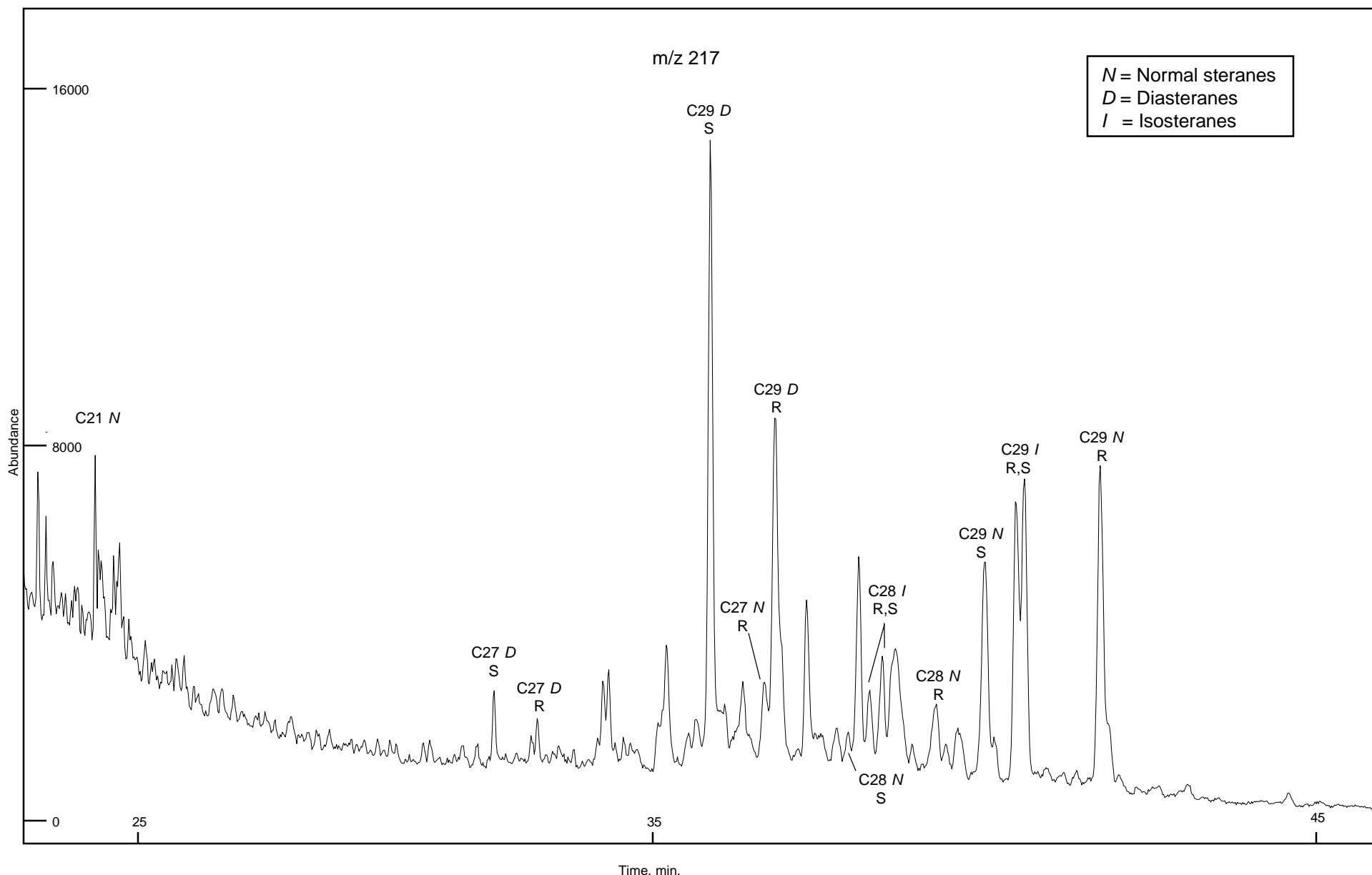


FIGURE 17B-1

Sample : MOBY-1, 560.0m, SWC

File ID : 345801B

GEOTECH

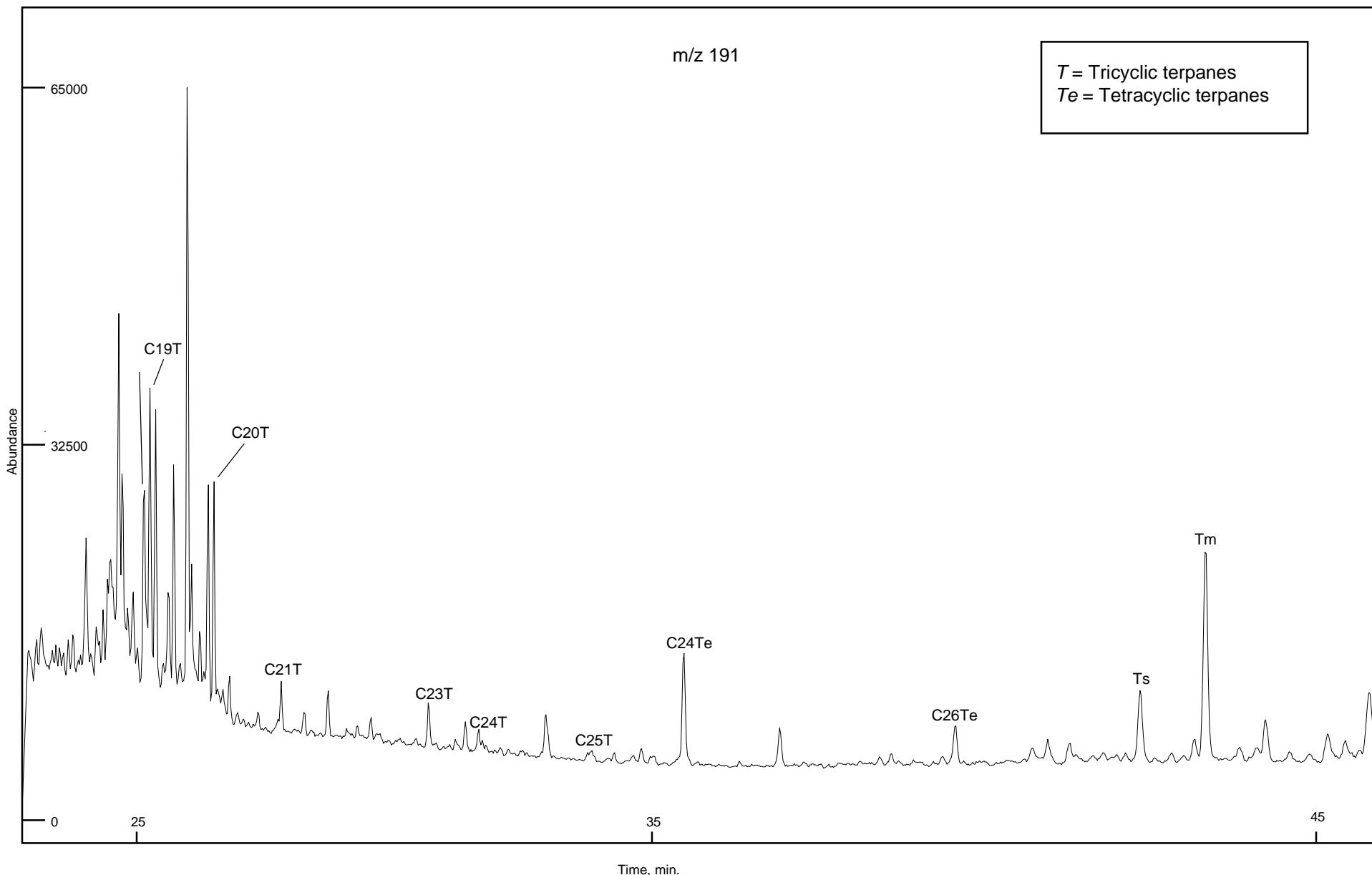


FIGURE 17C-1

Sample : MOBY-1, 560.0m, SWC

File ID : 345801B

GEOTECH

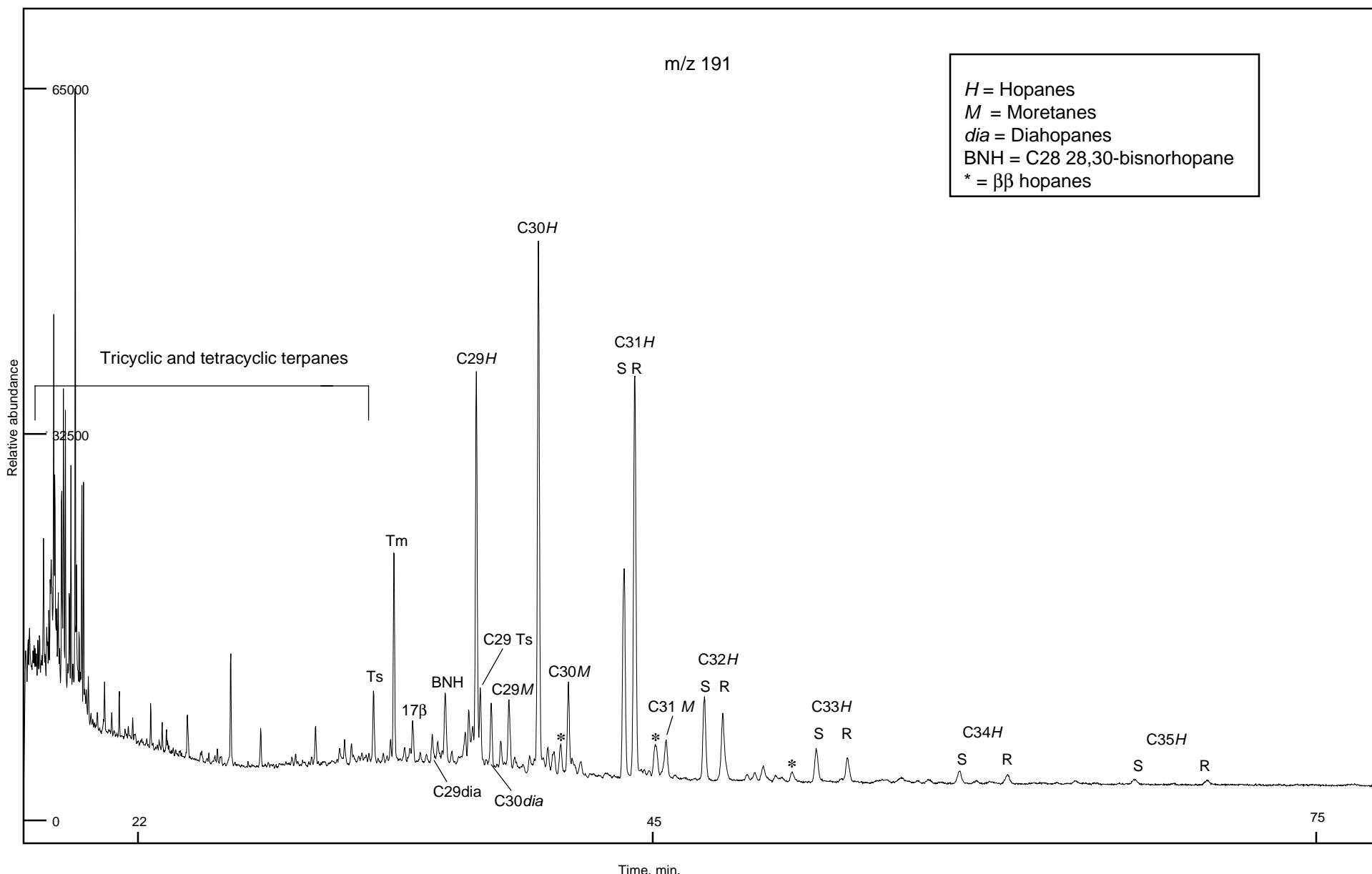


FIGURE 17D-1

Sample : MOBY-1, 560.0m, SWC

File ID : 345801B

GEOTECH

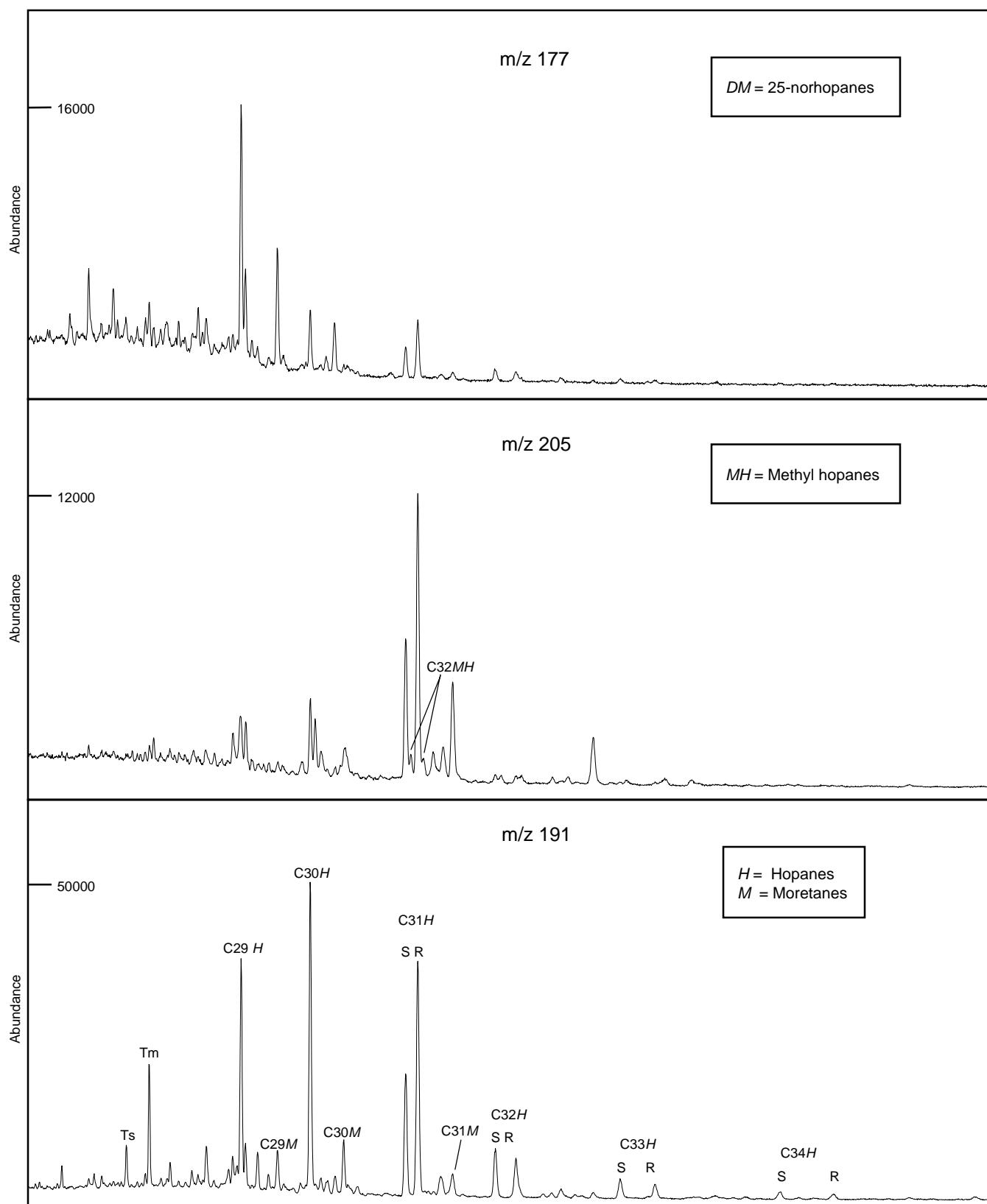


FIGURE 17E-1

Sample : MOBY-1, 560.0m, SWC

File ID : 345801B

GEOTECH

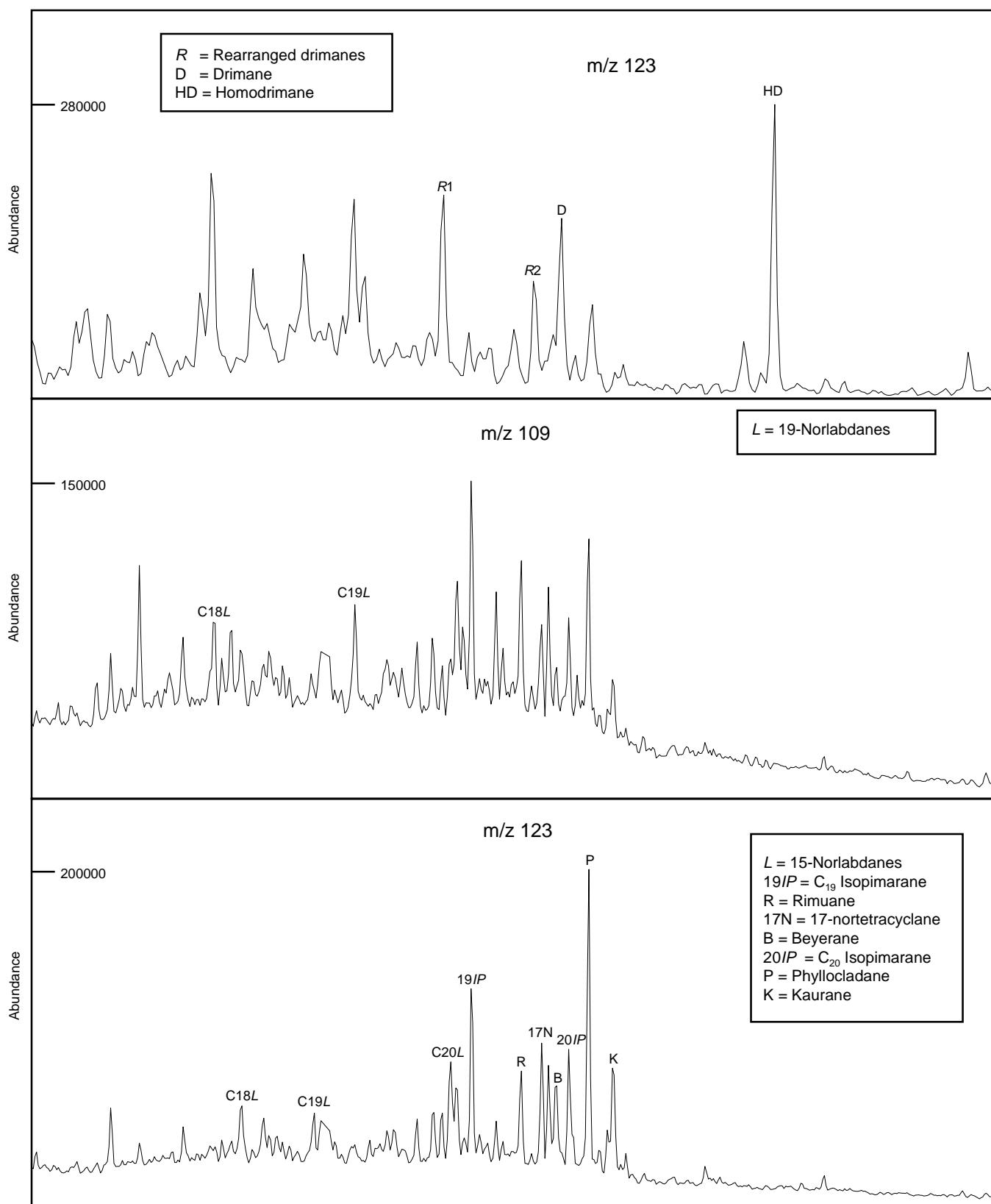


FIGURE 17F-1

Sample : MOBY-1, 560.0m, SWC

File ID : 345801B

GEOTECH

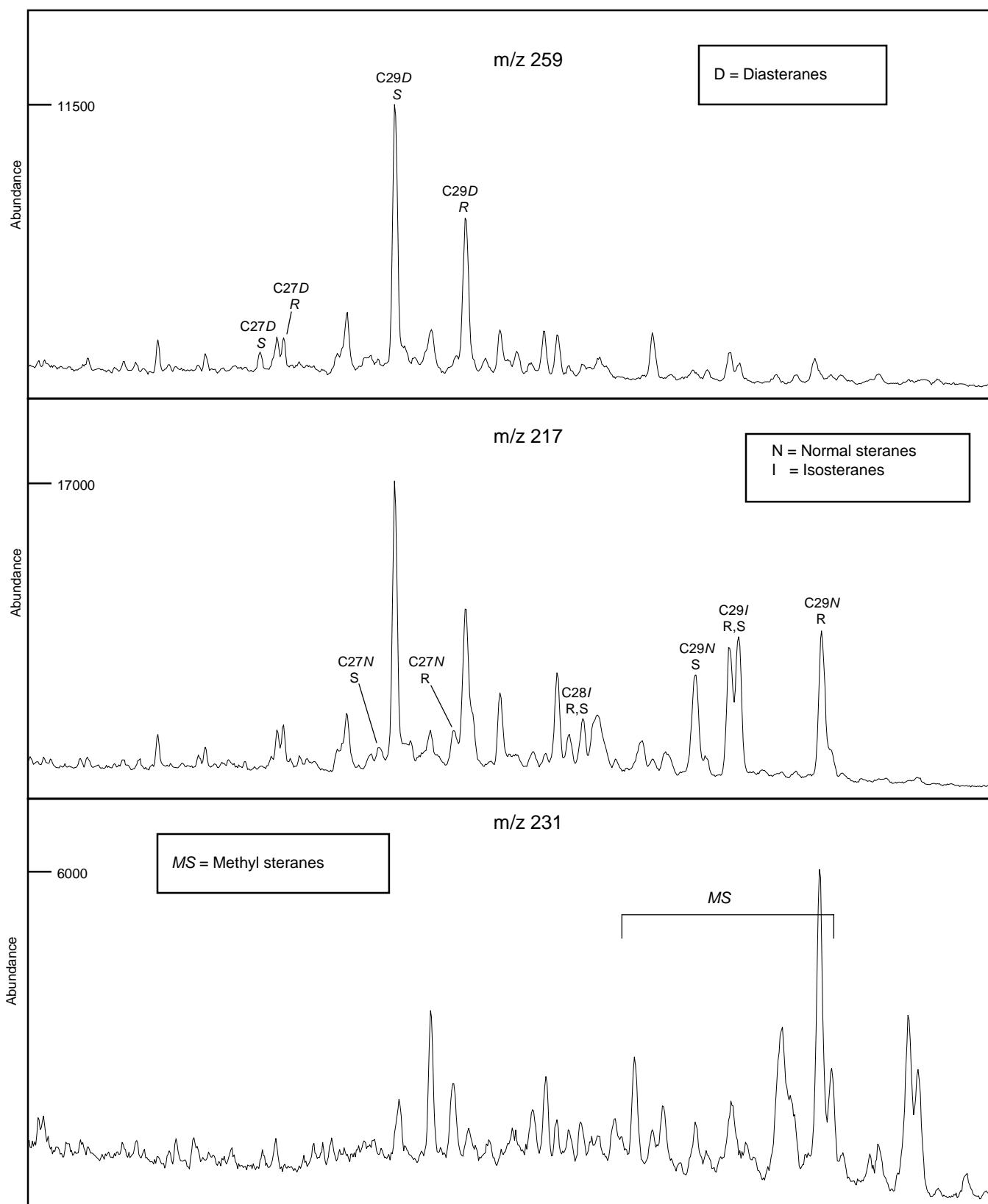


TABLE 9-2

ANALYSIS OF BRANCHED AND CYCLIC SATURATED HYDROCARBONS BY GC-MS

MOBY-1, 586.0m, SWC



	<i>Selected Parameters</i>	<i>Ion(s)</i>	<i>Value</i>
1.	18 α (H)-hopane/17 α (H)-hopane (Ts/Tm)	191	0.37
2.	C30 hopane/C30 moretane	191	6.55
3.	C31 22S hopane/C31 22R hopane	191	0.87
4.	C32 22S hopane/C32 22R hopane	191	1.13
5.	C29 20S $\alpha\alpha\alpha$ sterane/C29 20R $\alpha\alpha\alpha$ sterane	217	0.81
6.	C29 $\alpha\alpha\alpha$ steranes (20S / 20S+20R)	217	0.45
7.	C29 $\alpha\beta\beta$ steranes	217	0.51
8.	C29 $\alpha\alpha\alpha$ steranes + C29 $\alpha\beta\beta$ steranes	259	0.07
9.	C27/C29 diasteranes	217	0.20
10.	18 α (H)-oleanane/C30 hopane	191	nd
11.	C29 diasteranes	217	0.70
12.	C30 (hopane + moretane)	191/217	1.18
13.	C29 (steranes + diasteranes)	123	0.41
14.	Rearranged drimanes/normal drimanes	123	nd

nd = no data

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FIGURE 17A-2

Sample : MOBY-1, 586.0m, SWC

File ID : 345805B

GEOTECH

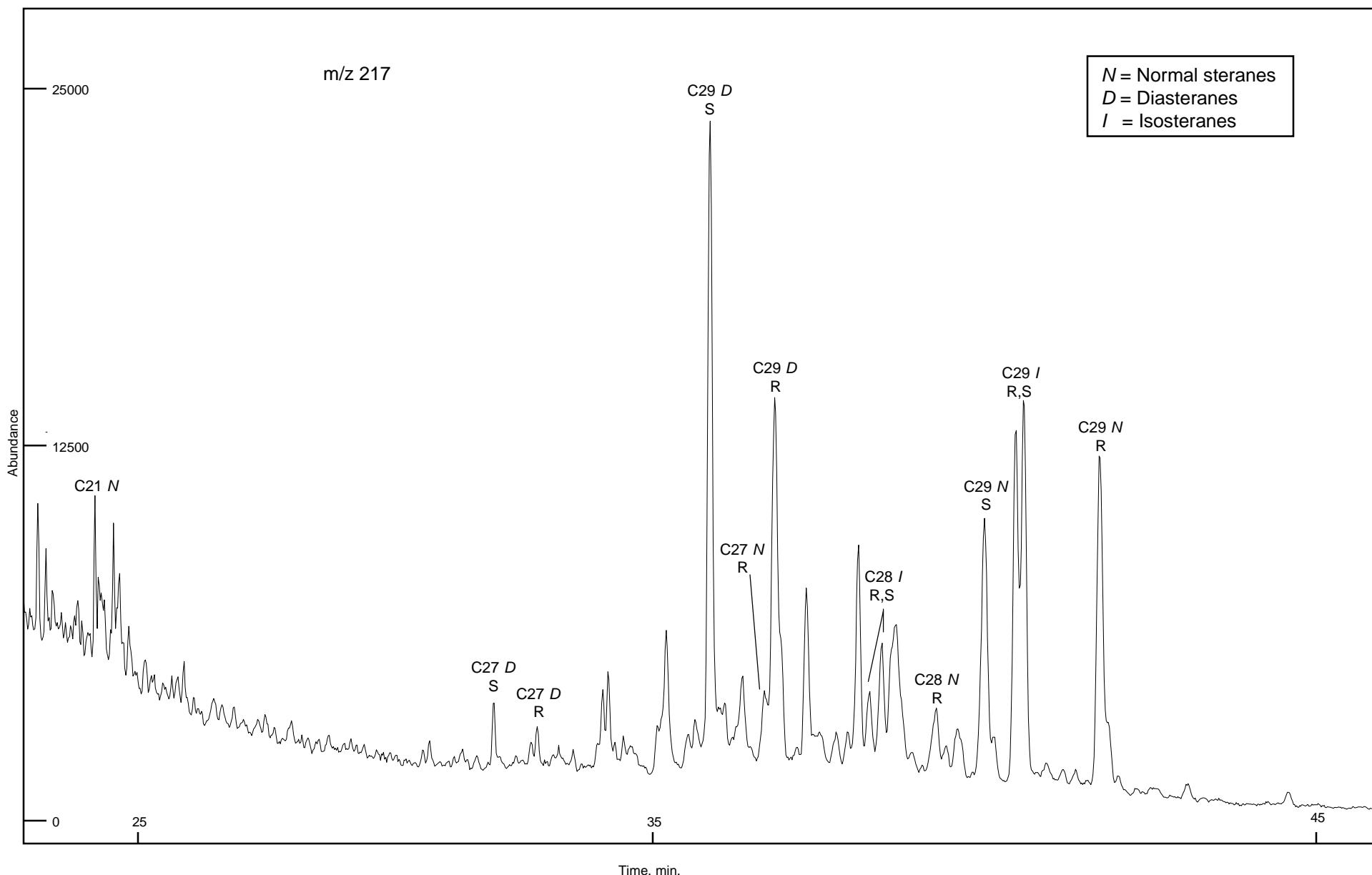


FIGURE 17B-2

Sample : MOBY-1, 586.0m, SWC

File ID : 345805B

GEOTECH

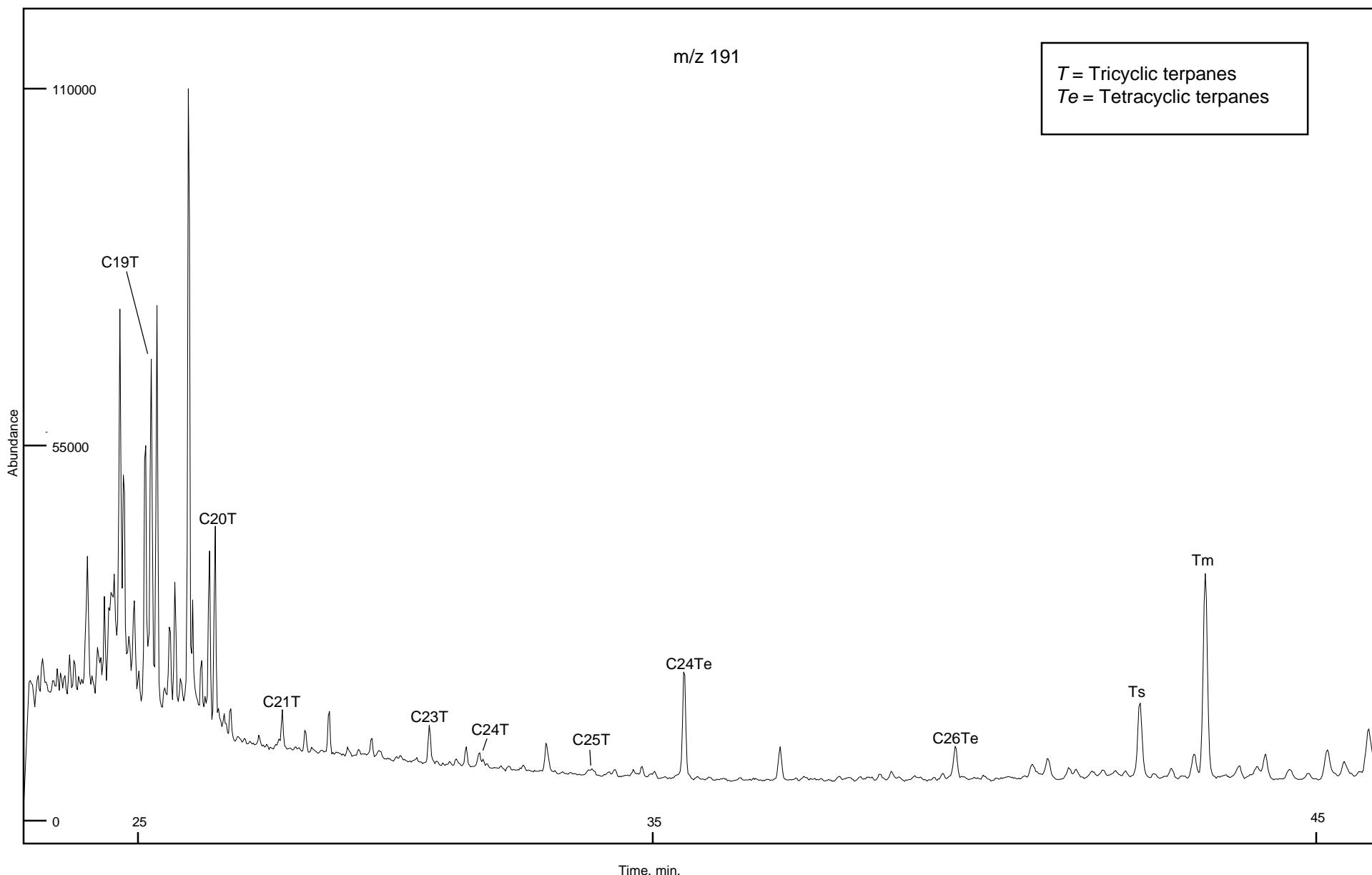


FIGURE 17C-2

Sample : MOBY-1, 586.0m, SWC

File ID : 345805B

GEOTECH

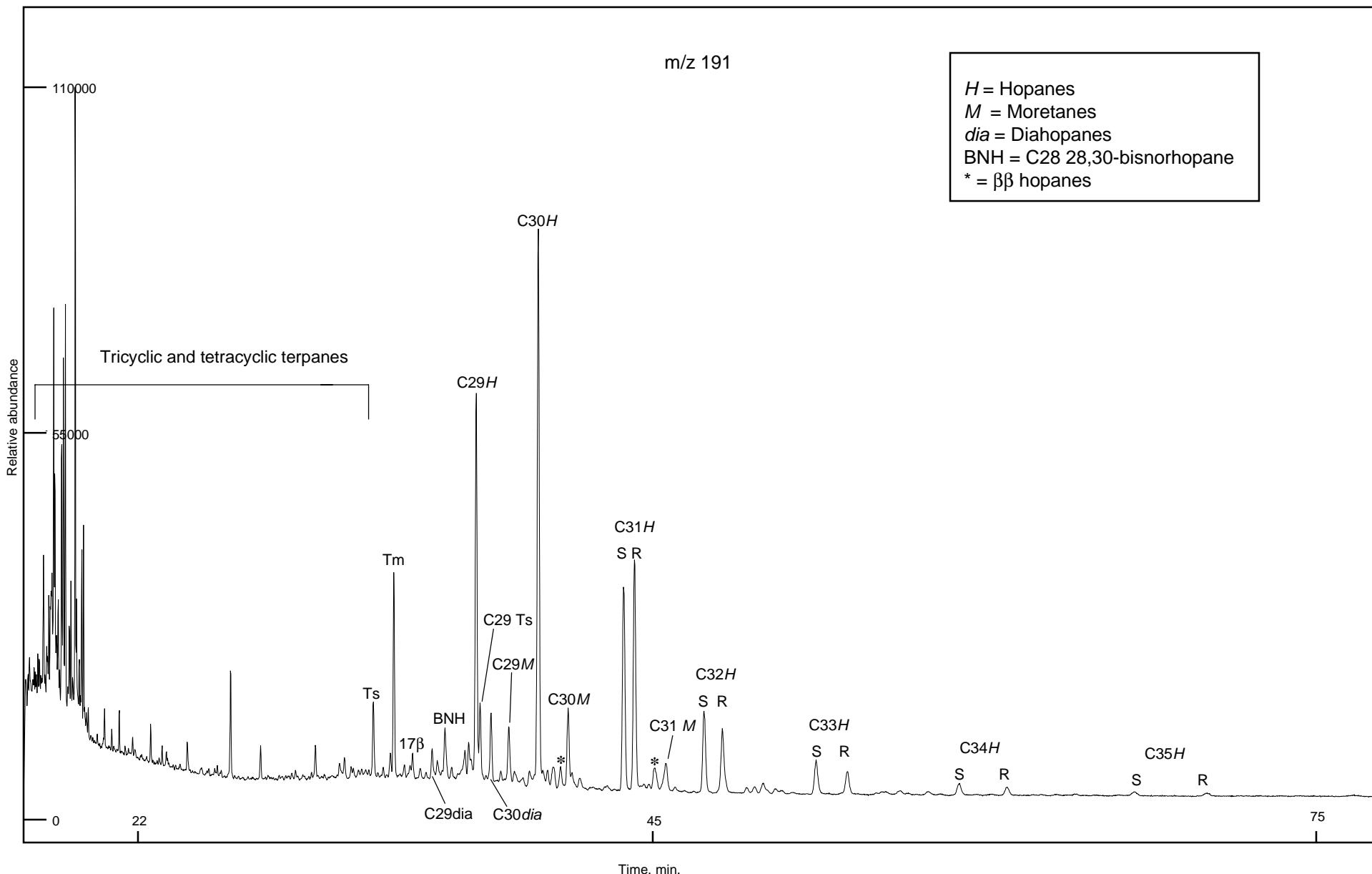


FIGURE 17D-2

Sample : MOBY-1, 586.0m, SWC

File ID : 345805B

GEOTECH

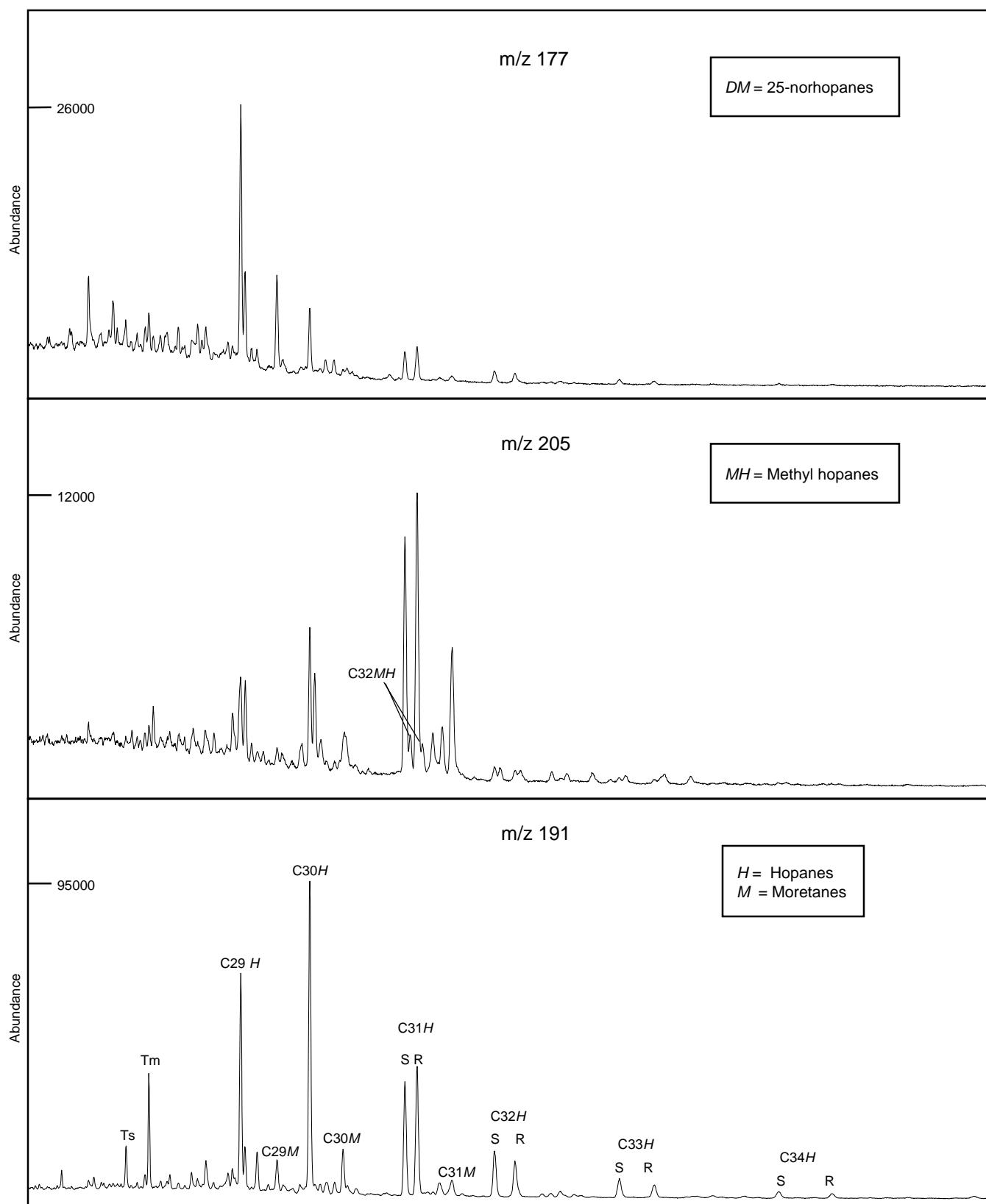


FIGURE 17E-2

Sample : MOBY-1, 586.0m, SWC

File ID : 345805B

GEOTECH

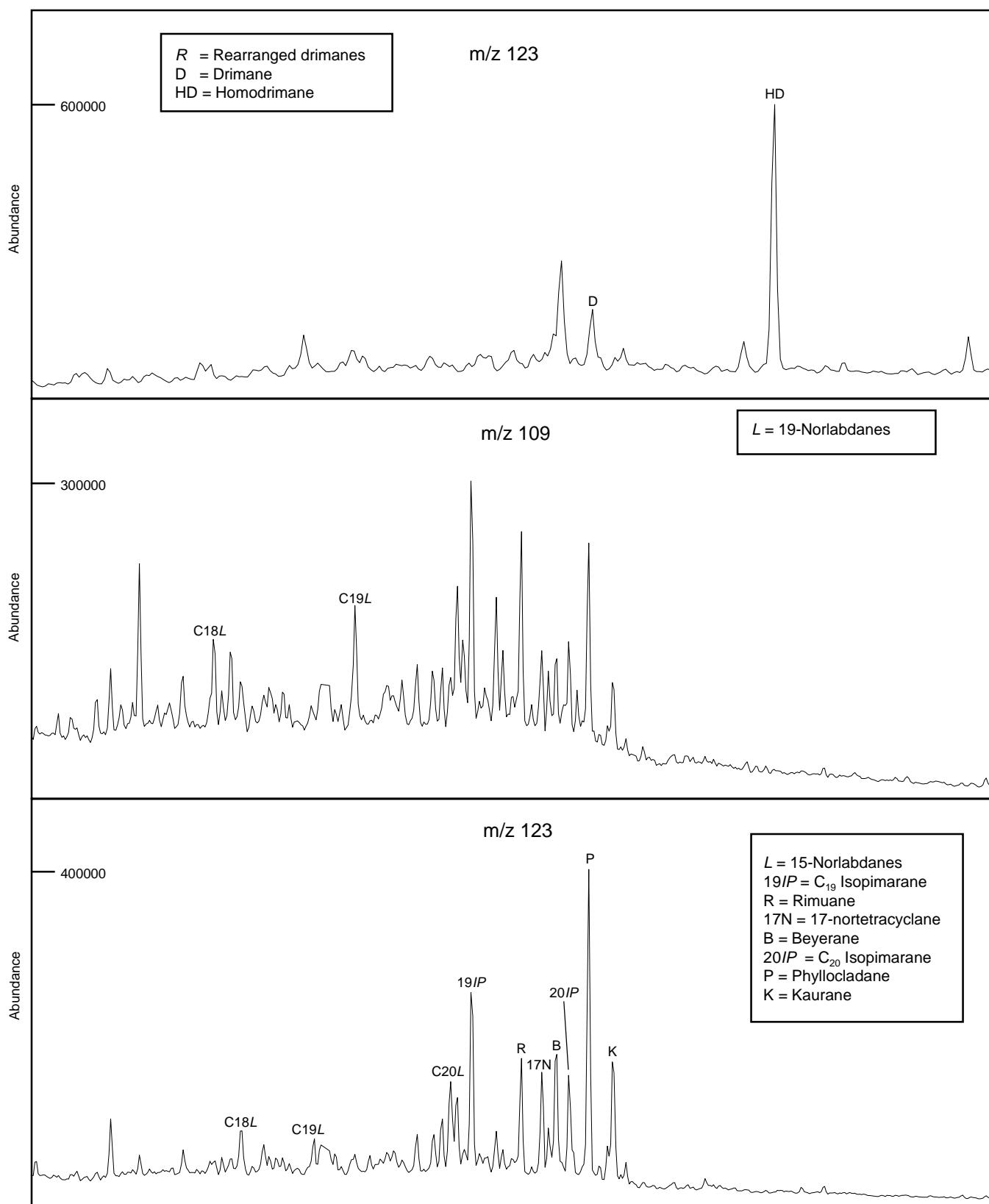
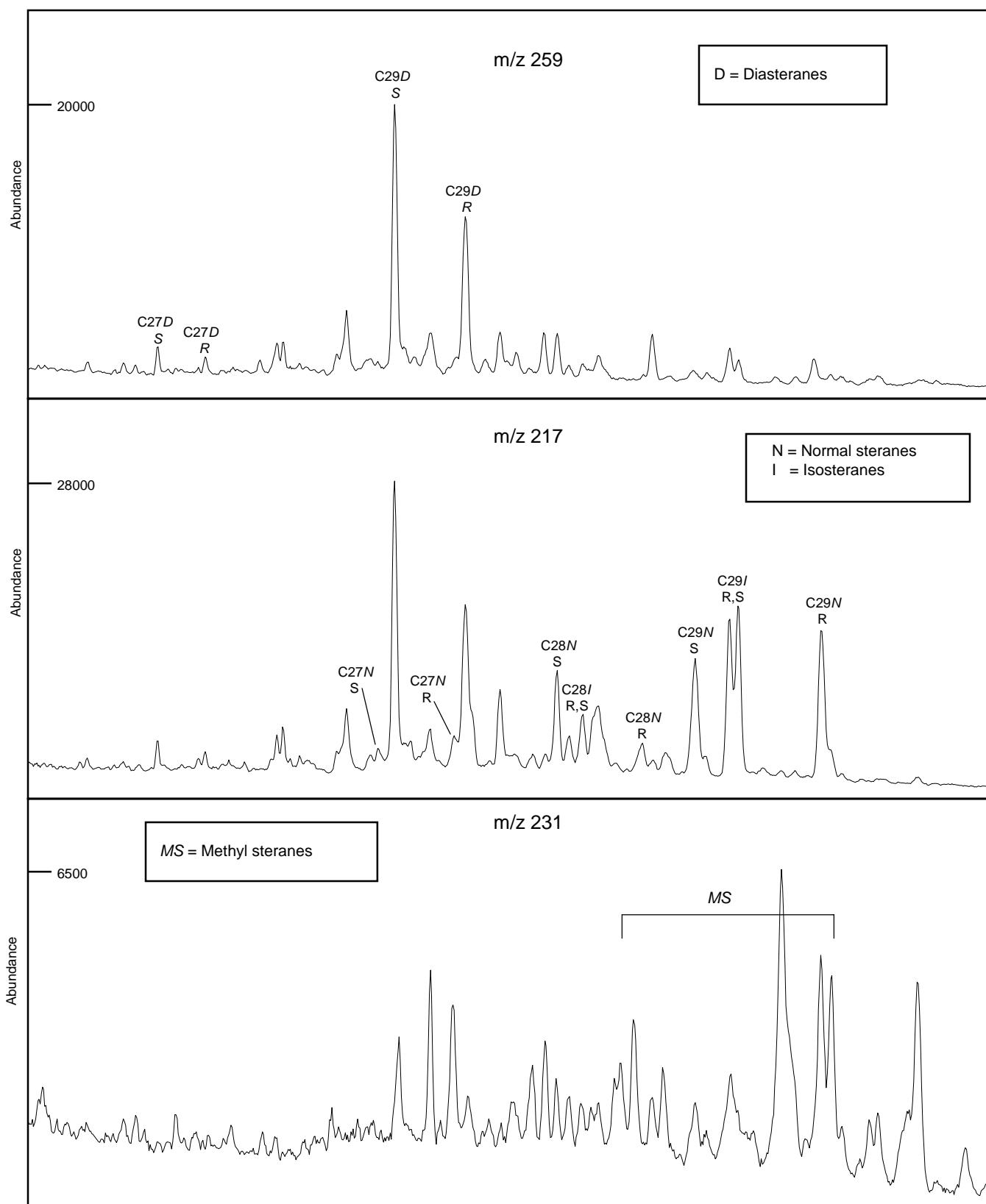


FIGURE 17F-2

Sample : MOBY-1, 586.0m, SWC

File ID : 345805B

GEOTECH



APPENDIX 12

PALYNOLOGY REPORT & BASIC DISTRIBUTION CHART

(By Biostrata Pty Ltd)

BASIC DATA
Palynological analysis of interval
from 538 to 630 metres in Moby-1,
offshore Gippsland Basin.

by

Alan D. Partridge

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

Biostrata Report 2005/01B

17th February 2005

BASIC DATA

Palynological analysis of interval from 538 to 630 metres in Moby-1, offshore Gippsland Basin.

by Alan D. Partridge

Introduction

Twenty-one samples, comprising thirteen sidewall cores, seven single cuttings samples and one composite cuttings sample have been analysed from the Moby-1 well drilled by the Bass Strait Oil Company Ltd in permit VIC/P47 located in the offshore Gippsland Basin. All samples have been processed in the palynological laboratory facilities of Core Laboratories Australia Pty Ltd in Perth. Palynological slides from an initial suite of nine samples were received on 13th December 2004, and the results of microscope analysis of these samples were provided in Provisional Report No. 1 issued on 14th December 2004. Based on these initial results additional sidewall core and cuttings samples were submitted for laboratory processing in January 2005. The prepared palynological slides from these extra samples were all received by 30th January and the results of microscope analysis of them were provided in Provisional Report No. 2 issued on 11th February 2005.

Sample Processing and Basic Analyses

In the laboratory processing it was requested that all the samples be oxidised prior to the application of zinc bromide density separation used to remove the undissolved mineral matter. This procedure was necessary to remove finely disseminated pyrite within the samples and impregnating the palynomorphs. The procedure is believed to have improved both the amount of organic residue recovered and the concentration of the palynomorphs.

Basic sample data on lithologies (were recorded), weights of sample processed, and measured organic yields obtained are provided on Table 1. The basic data on the visual organic residues yields, palynomorph concentration and preservation, and number of species of spore-pollen (SP) and microplankton (MP) recorded from individual samples are provided in Table 2. The visual yield from the samples varies from very low to high, with the concentration of palynomorph on the slides also highly variable from very low to high, while palynomorph preservation is mostly poor. The recorded spore-pollen diversity varies from very low to high, whereas the recorded microplankton diversity is typically low to moderate.

Description of Range Chart.

The distribution of the palynomorphs identified in the samples are displayed 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 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 and non-marine microplankton in the spore-pollen count. The proportion of the various microplankton species in the microplankton count is then displayed in the panel labelled Microplankton. Other and RW(Reworked) palynomorphs are plotted in the final two panels. Within the panels the species are plotted according to their deepest or oldest occurrences or in alphabetical order.

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) 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.

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

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

References

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- WILLIAMS, G.L., LENTIN, J.K. & FENSOME, R.A., 1998. The Lentin and Williams index of fossil dinoflagellates 1998 edition. *American Association of Stratigraphic Palynologists, Contributions Series, no. 34*, p.1-817.

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

Sample Type	Depth metres	Lithology	Wt grams	VOM	Org. Yield
SWC 25	538	Calcareous Calcilutite	9.7		
SWC 24	547	Calcareous Calcilutite	7.1		
Cuttings	550	(not recorded)	12.0		
Cuttings	556	Medium grey marl? (powder to 5 mm clumps)	17.6	0.2	0.011
SWC 22	558.5	Glauconitic Sandstone: dark brownish grey	7.5	0.5	0.066
SWC 20	561.3	Argillaceous Glauconitic Siltstone: dark brownish grey	8.9	0.6	0.067
Cuttings	565	Medium to light grey siltstone? (powder to 10 mm clumps)	17.5	0.2	0.011
SWC 18	566	Sandstone: dark yellowish brown, trace glauconite	8	0.5	0.062
SWC 16	568.5	Sandstone: dark yellowish brown, argillaceous, glauconitic	10.2	0.4	0.039
SWC 14	571	Argillaceous Siltstone: slightly glauconitic	9.6	0.5	0.052
SWC 12	574	Argillaceous Siltstone: dark yellowish brown, trace of glauconite	4.5		
SWC 11	575.7	Glauconitic Sandstone: mottled brownish grey to dark green	6.6	0.7	0.106
Cuttings	577	Dark grey sandstone (powder to 10 mm clumps)	19.2	0.4	0.020
SWC 10	580	Siltstone: dark brownish grey	5.3		
SWC 8	585	Sandstone: medium dark grey	7.6		
Cuttings	586	Medium brown green-grey sandstone (powder to 10 mm clumps)	19.5	0.4	0.020
SWC 6	588	Sandstone: medium light grey	4.5		
Cuttings	589 to 604	(not recorded)	18.5		
SWC 3	605	Sandstone: medium light grey (Strzelecki ?)	6.6		
Cuttings	613	Medium green-grey greywacke (powder to 10 mm clumps)	19.3	0.2	0.010
Cuttings	630	Medium grey greywacke (powder to 8 mm clumps)	18.7	0.5	0.026

Wt = Weight of sample processed in grams.

VOM = Volume of wet organic residues in cubic centimetres.

Org. Yield = Organic Yield — VOM divided by Wt.

Table 3: Basic assemblage data for Moby-1, offshore Gippsland Basin.

Sample Type	Depth metres	Visual Yield	Palynomorph Concentration	Preservation	No. SP Species	No. MP Species
SWC 25	538	Moderate	High	Poor-fair	30+	12+
SWC 24	547	Low	High	Poor	25+	13+
Cuttings	550	Moderate	Very low	Poor	3+	6+
Cuttings	556	Moderate	High	Poor-fair	44+	11+
SWC 22	558.5	High	High	Very poor	47+	10+
SWC 20	561.3	Moderate	Very low	Very poor-fair	29+	3+
Cuttings	565	Low	Moderate	Poor-fair	36+	5+
SWC 18	566	High	Moderate-high	Poor	47+	4+
SWC 16	568.5	High	High	Poor-fair	55+	10+
SWC 14	571	High	High	Very poor	51+	9+
SWC 12	574	Low	Low-moderate	Very poor	27+	2+
SWC 11	575.7	High	Moderate	Very poor	37+	9+
Cuttings	577	High	High	Poor	57+	17+
SWC 10	580	Low	High	Poor	72+	12+
SWC 8	585	Very low	Low	Poor	22+	4+
Cuttings	586	High	High	Fair-good	63+	13+
SWC 6	588	Very low	Very low	Very poor	23	
Cuttings	589 to 604	Very low	Very low	Very poor	8+	1+
SWC 3	605	Very low	Very low	Very poor	6+	
Cuttings	613	Low	Low	Poor-fair	28+	5+
Cuttings	630	High	High	Fair-good	34+	4+

APPENDIX 13

VSP REPORT

(By VS Fusion)



Well Completion Report (Basic Data)-Moby-1

ISSUED UNDER SEPARATE COVER

(INCLUDED ON CD Rom)

APPENDIX 14

FINAL RIG POSITIONING REPORT

(By FUGRO Survey Pty Ltd)

**REPORT FOR THE
OCEAN PATRIOT RIG MOVE TO THE
MOBY-1 LOCATION**

FUGRO SURVEY JOB NO. - P0137

Client : Bass Strait Oil Company Ltd
Level 25
500 Collins Street
Melbourne 3000
Victoria

Date of Survey : 2 – 8 October 2004

0	Final			19 October 2004
Rev	Description	Checked	Approved	Date

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ABSTRACT

Between 2 and 8 October 2004, Fugro Survey Pty Ltd (Fugro) provided equipment and personnel for the semi-submersible Mobile Offshore Drilling Unit (MODU) Ocean Patriot, rig move to Moby-1 location in Permit Vic/P47 in Bass Strait, offshore Victoria, Australia.

Surface positioning was achieved utilising Fugro's Starfix.Differential GPS and Starfix.Seis Navigation Software.

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

Location Name:	Moby-1
Easting:	632316.41m
Northing:	5789884.86m
Latitude:	38° 01' 44.25" S
Longitude:	148° 30' 27.40" E
Rig Heading:	270.28° (True)

This position is 2.4m on a bearing of 327.2° (Grid) from the proposed Moby-1 location.

All coordinates in this report are quoted in AGD66 datum and AMG, Zone 55 (CM 147° E) projection, unless otherwise stated.

1.0 INTRODUCTION

Fugro Survey Pty Ltd (Fugro) was contracted by Labrador Petro Management (Labrador) and 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 Moby-1 location in Permit Vic/P47 in Bass Strait, Australia.

The rig was moved from Tawatawa-1, New Zealand to Moby-1, Victoria. A general location diagram is shown as Figure 1-1.

This report details the 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 Starfix.Spot Differential Global Positioning System (DGPS).
- Surface navigation for AHVs during anchoring operations, using Starfix.Spot DGPS.
- Final rig surface positioning for the Moby-1 location using DGPS observations.
- Final reporting of the positioning results.

1.2 Sequence of Events

On 2 October 2004, R. Risah and S. Bradley travelled from Perth to Melbourne. Fugro personnel joined the *Ocean Patriot* on 3 October 2004, whilst the rig was on tow approximately 30 nautical miles from Moby-1 location.

Between 5 and 7 October 2004, the rig was positioned on location at Moby-1. Fugro personnel departed the rig on 7 October 2004, and returned to Perth the following day.

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



VICTORIA

Lakes Entrance

Loch Sport

Patricia/Baleen Pipeline

Moby-1

BASS STRAIT

GENERAL LOCATION DIAGRAM



FIGURE 1-1

2.0 RESULTS

2.1 Final Position

The final position of the *Ocean Patriot* drill stem was established by calculating the mean position from 60 minutes of DGPS data between 11:30 and 12:30 on 7 October 2004. During this period, calculated drill stem coordinates from the primary (and secondary) positioning system(s) were logged at five second intervals in Starfix.Seis. Data from the primary positioning system was used for the final position calculation.

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

AGD66 geographical positions for the Moby-1 location are shown in Table 2-1.

AGD66			
Position	Method	Latitude	Longitude
Drill Stem at Surface	DGPS	38° 01' 44.25" S	148° 30' 27.40" E
Proposed Location	-	38° 01' 44.31" S	148° 30' 27.46" E

TABLE 2-1 : GEOGRAPHICAL POSITIONS FOR MOBY-1

AGD66 grid coordinates (CM 147° E) for Moby-1 location are shown in Table 2-2.

AGD66, AMG, CM147°E			
Position	Method	Easting (m)	Northing (m)
Drill Stem at Surface	DGPS	632316.41	5789884.86
Proposed Location	-	632317.70	5789882.87

TABLE 2-2 : GRID COORDINATES FOR MOBY-1

This position is 2.4m at a bearing of 327.2° (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* was established by calculating the average heading during 60 minutes of corrected gyro compass readings logged between 11:30 and 12:30 on 7 October 2004. During this period gyro readings were logged at five second intervals in Starfix.Seis.

The *Ocean Patriot*'s heading is shown in Table 2-3.

Description	Method	True	Grid
Rig Heading	Gyro	270.28°	271.21°
Proposed Heading	-	270.00°	270.93°

TABLE 2-3 : RIG HEADING

2.3 Anchor Positions

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

AGD66, AMG, CM147°E				
Anchor	Easting (m)	Northing (m)	Azimuth	Deployed By
1	631433	5790491	303.0°	<i>Pacific Wrangler</i>
2	631864	5790845	334.5°	<i>Pacific Wrangler</i>
3	632884	5790787	031.1°	<i>Pacific Wrangler</i>
4	633222	5790363	063.2°	<i>Pacific Wrangler</i>
5	633205	5789349	119.3°	<i>Pacific Wrangler</i>
6	632842	5788985	149.0°	<i>Pacific Wrangler</i>
7	631764	5789009	210.5°	<i>Pacific Wrangler</i>
8	631163	5789404	247.2°	<i>Pacific Wrangler</i>

TABLE 2-4 : ANCHOR POSITIONS

The approximate seabed positions of the *Ocean Patriot's* anchors were calculated from the position of the AHV stern at the time of deployment, together with the bearing to the anchor and distance calculations obtained from chain paid out from the rig's chain counters and 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 Labrador / BSOC and Diamond Offshore.

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

Fugro personnel attended a vessel induction/pre-rig move meeting/muster drill whilst on board.

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

4.0 SURVEY PROCEDURES

4.1 Mobilisation

Mobilisation commenced with departure of the survey team from Perth on 2 October 2004. On 3 October 2004, Fugro personnel then transferred to the *Ocean Patriot*, which was on tow to Moby-1 location. Following a rig induction, the survey equipment on board was powered up and systems and function tests completed.

4.2 General Survey Procedures

The tow was conducted with the *Pacific Wrangler* connected to the tow bridle. The *Far Grip* was connected to Anchor #5 approximately four nautical miles from Moby-1 location.

The *Pacific Wrangler* manoeuvred the rig onto the Moby-1 location using an approach 'run-in' line of three nautical miles extended from Anchor #5 drop point through to the proposed well location. After Anchor #5 had been deployed by the *Far Grip*, the *Pacific Wrangler* continued towing and positioned the rig over the proposed Moby-1 location.

After establishing that Anchor #5 was holding and the rig was maintaining its position over the Moby-1 location, the *Far Grip* then ran Anchors #1, #7 and #4.

Once the four primary anchors were laid and the *Ocean Patriot* had applied tension to the laid anchor chains to a pre-determined tension of 100 tons as specified in the Rig Move Procedures (refer Appendix D), the *Pacific Wrangler* was disconnected from the tow bridle. The *Far Grip* was then released from anchor handling duties and transited to Eden in New South Wales.

However, it was soon discovered that design anchor pattern had to be re-configured in order for the rig to change its heading from 250° to 270°. This change of rig's heading was essential to facilitate an uninterrupted satellite communication link between the rig and the rest of the world. The *Pacific Wrangler* re-laid primary Anchors #1, #4, #5 and #8 and deployed secondary Anchors #2, #3, #6 and #7.

Once all anchors were laid and the *Ocean Patriot* had applied tension to the anchor chains, Anchors #6 and #8 began losing hold of the seabed. Anchors #6 and #8 were subsequently recovered and re-laid by the *Pacific Wrangler*.

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

The *Ocean Patriot* was positioned over the Moby-1 location with all anchoring and pre-tensioning completed at 11:00 on 7 October 2004. Final position data was logged between 11:30 and 12:30 on 7 October 2004. A rig positioning field report was issued to the BSOC Survey QC representative and the BSOC Drilling Supervisor (see Appendix B).

4.3 Demobilisation

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

Fugro personnel departed the rig on 7 October 2004, and returned to Perth on the following day.

5.0 EQUIPMENT CALIBRATIONS

5.1 DGPS Navigation Integrity Check

A DGPS position check against the known well coordinates was not possible as Fugro personnel joined the rig whilst it was under tow to Moby-1 location.

A comparison of the primary and secondary DGPS systems was performed on 4 October 2004. The antennae position data of the primary and secondary systems were observed for ten minutes between 13:48 and 13:58. The results of the system comparison are provided in Table 5-1.

AGD66, AMG, CM147°E		
	Easting (m)	Northing (m)
Primary Navigation	684836.17	5787191.62
Secondary Navigation	684838.23	5787191.36
Differences	-2.06	0.26

TABLE 5-1 : DGPS NAVIGATION INTEGRITY CHECK

The DGPS comparison check described above demonstrated that the navigation systems on board the *Ocean Patriot* were set up and working correctly. Details of the DGPS check are provided in Appendix C.

A positioning check list was completed for the Moby-1 location to confirm the proposed rig position and to ensure that the correct geodetic datum, transformation and projection parameters were being used. Geodetic calculations were performed using both Starfix.Seis and the off-line geodetic calculation package GEO. This checklist (FSHY48-1) is shown in Appendix C.

5.2 Gyro Compass Calibration

The calibration of the survey gyro compass was carried out on 4 October 2004, whilst the rig was under tow to Moby-1 location.

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 +1.04° was determined. This correction was applied in the navigation suite.

Details of the observations and gyro calibration reduction results are enclosed in Appendix C.

6.0 SURVEY PARAMETERS

6.1 Geodetic Parameters

All coordinates supplied in this report are referenced to the Australian Geodetic Datum 1966 (AGD66). Global Positioning System (GPS) operates in reference to the World Geodetic System 1984 (WGS84).

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

Datum : **Australian Geodetic Datum 1966 (AGD66)**
 Reference Spheroid : Australian National
 Semi-Major Axis : 6378160.000m
 Inverse Flattening : 298.25000

The following seven parameter shifts were used to transform GPS derived WGS84 coordinates to AGD66. These parameters were based on the 14 parameter transformation defined by Geoscience Australia. Fugro follows the coordinate Frame Rotation method (as defined by UKOOA convention) for datum transformations (refer Table 6-1).

Transformation Parameters from WGS84 to AGD66			
dX	123.314m	rX	0.26400"
dY	47.223m	rY	0.32200"
dZ	-136.594m	rZ	0.27000"
		dS	+1.38400ppm

TABLE 6-1: TRANSFORMATION PARAMETERS FROM WGS84 TO AGD66

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

Grid : **Australian Map Grid (AMG)**
 Projection : Universal Transverse Mercator
 Latitude of Origin : 0°
 Central Meridian : 147° E (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 shown in Table 6-2.

WGS84				
Description	Site ID	Latitude	Longitude	Height (m)
Melbourne	385	37° 48' 29.0098" S	144° 57' 48.0278" E	82.061
Bathurst	336	33° 25' 46.8838" S	149° 34' 01.9676" E	756.657
Ceduna	355	32° 07' 03.0538" S	133° 41' 22.8483" E	7.269

TABLE 6-2 : MRDGPS REFERENCE STATIONS

6.3 Project Coordinates and Tolerances

Project target coordinates and surface tolerance for Moby-1 location was supplied by Labrador/BSOC and are shown in Table 6-3 and provided in Appendix D.

AGD66, AMG, CM147°E			
Location	Easting (m)	Northing (m)	Tolerance
Moby-1	632317.70	5789882.87	20m radius

TABLE 6-3 : PROJECT DESIGN COORDINATES

7.0 EQUIPMENT AND PERSONNEL

7.1 Equipment Listing

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

Ocean Patriot

- 2 x Starfix Demodulators (1 Optus link, 1 APSat link)
- 2 x Trimble 4000 series GPS receivers
- 2 x Pentium IV 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 (1 spare)
- 2 x Un-interruptible power supply units (UPS)
- 2 x Teledesign radio modem (1 spare)
- 1 x Theodolite, tripod and dark glass
- 1 x Printer

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

- 1 x Pentium III computers, running Starfix.Seis (Remote)
- 1 x Monitor
- 1 x Starfix.Spot DGPS receiver
- 1 x Fluxgate compass
- 1 x Teledesign radio modem
- 1 x Un-interruptible power supply unit (UPS)

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:

R. Risah	Party Chief / Surveyor	2 – 8 October 2004
S. Bradley	Technician	2 – 8 October 2004

Labrador/BSOC was represented during the rig move by:

A. Sellers	Survey QC Representative	3 – 7 October 2004
------------	--------------------------	--------------------

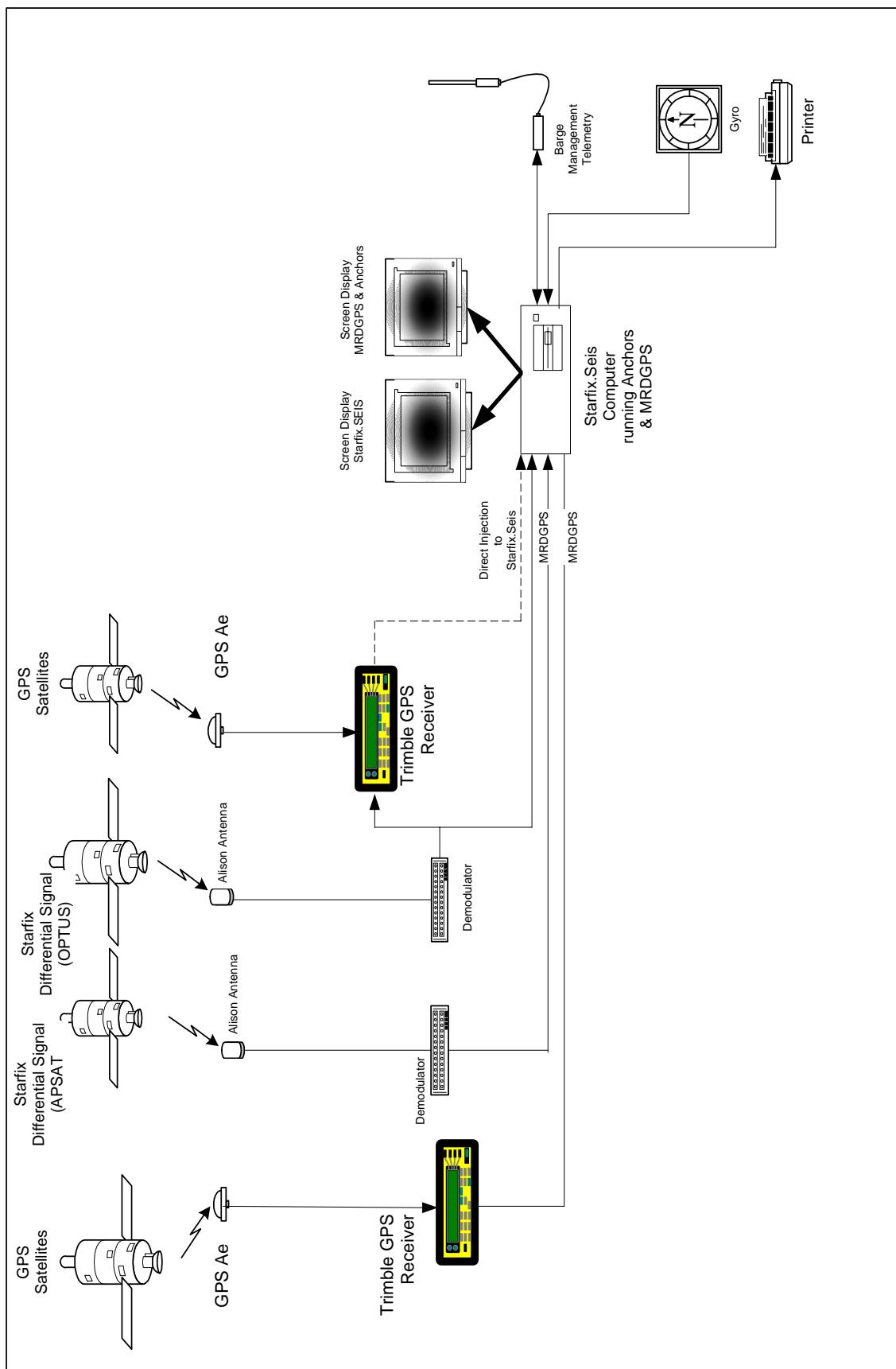


FIGURE 7-1 : EQUIPMENT FLOW DIAGRAM – MODU *OCEAN PATRIOT*

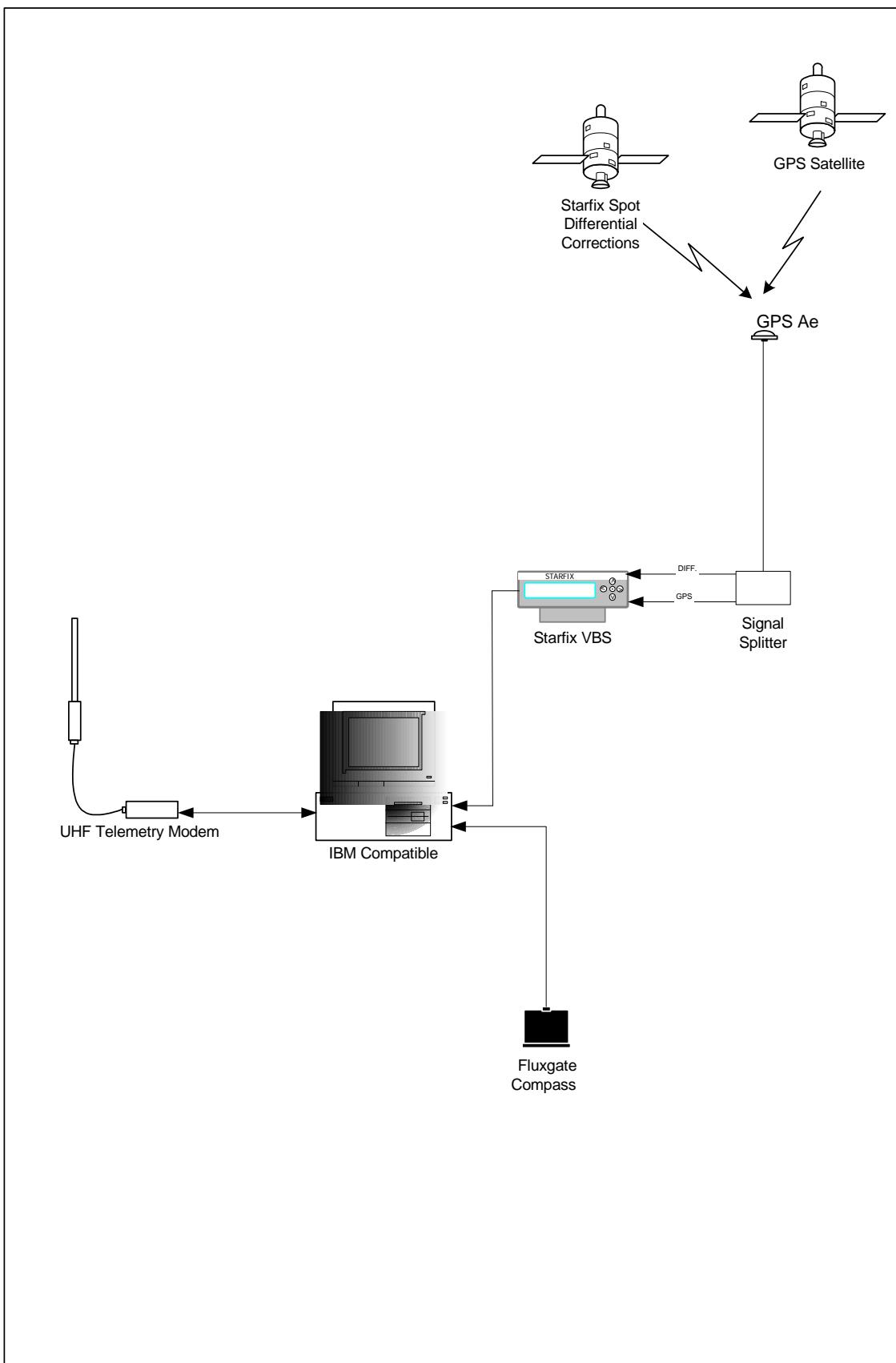
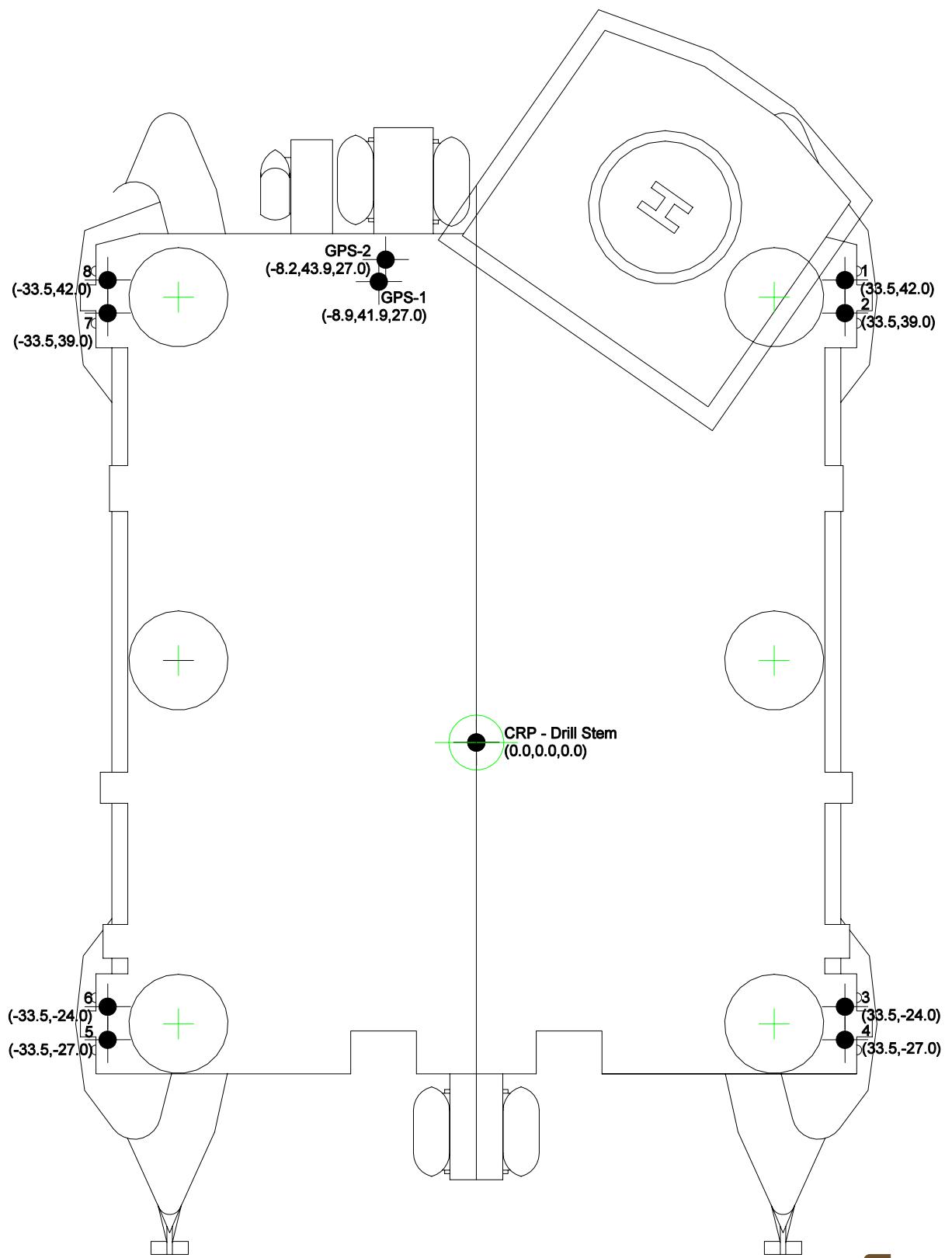
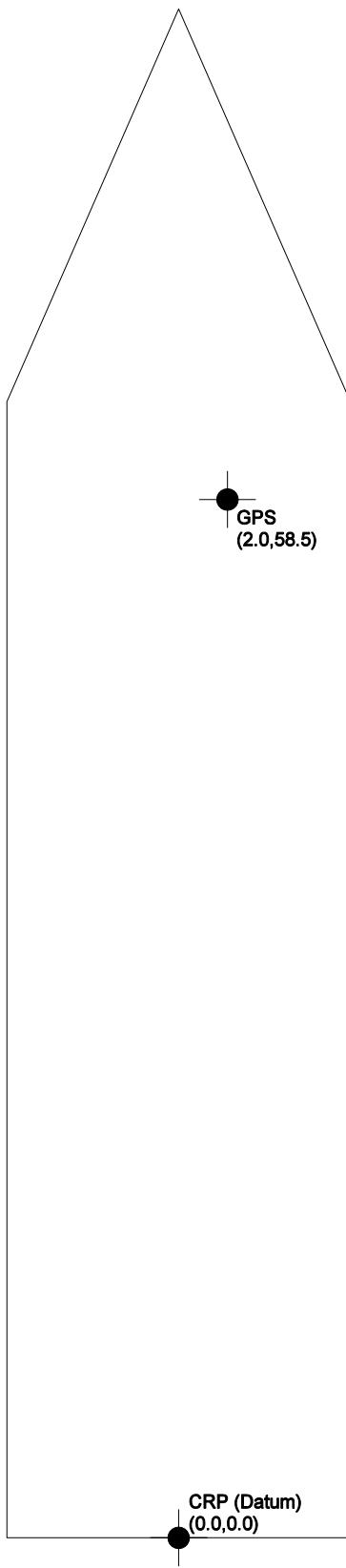


FIGURE 7-2 : EQUIPMENT FLOW DIAGRAM – AHVS



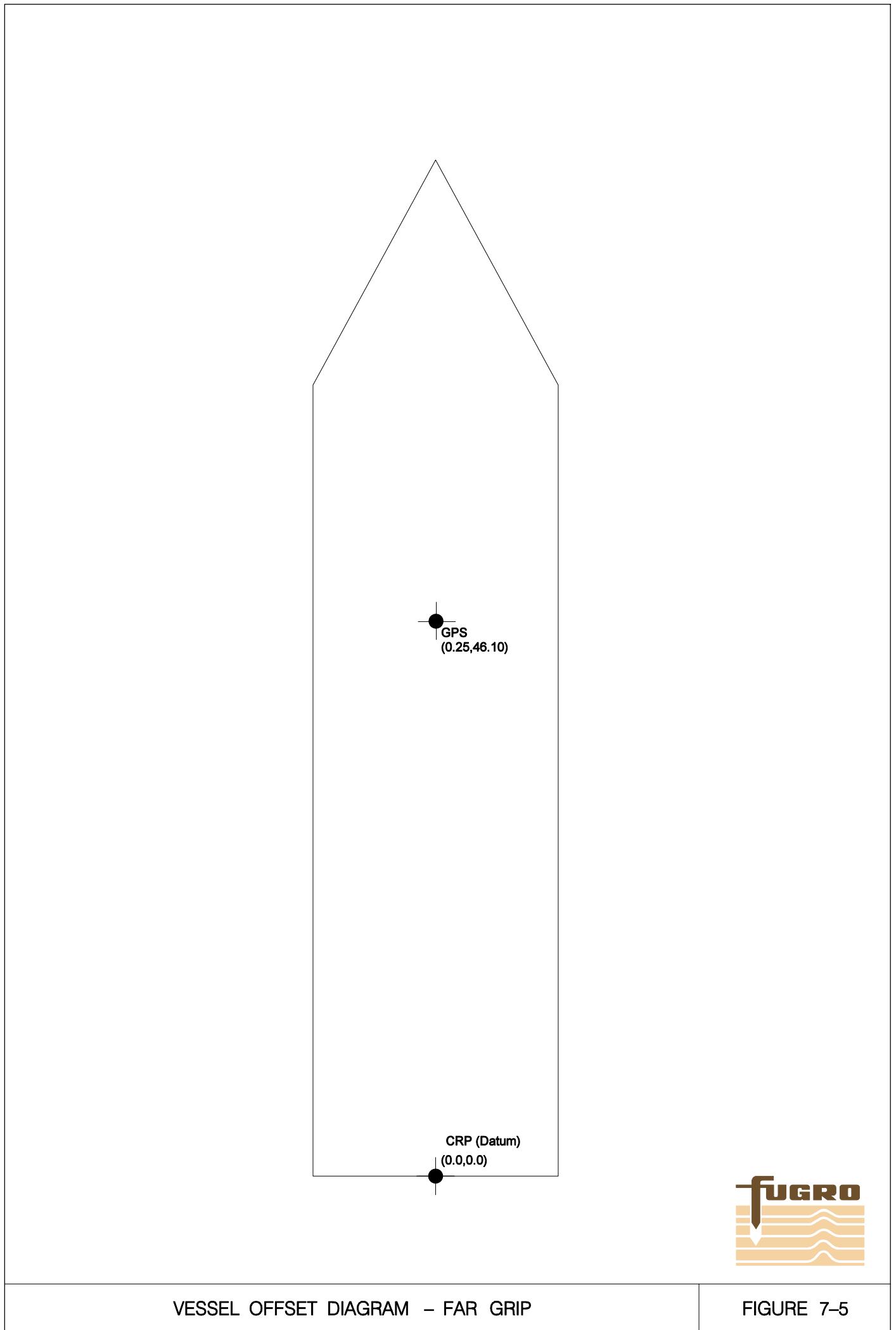
VESSEL OFFSET DIAGRAM – OCEAN PATRIOT

FIGURE 7-3



VESSEL OFFSET DIAGRAM – PACIFIC WRANGLER

FIGURE 7-4



8.0 CONCLUSIONS

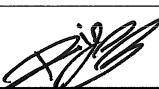
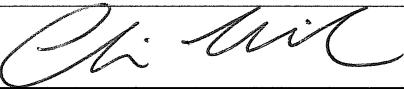
On reviewing the rig move and positioning operations undertaken by Fugro the *Ocean Patriot* was successfully positioned at the Moby-1 location.

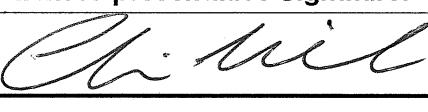
9.0 DISTRIBUTION

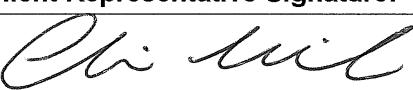
Copies of this report have been distributed as follows:

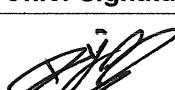
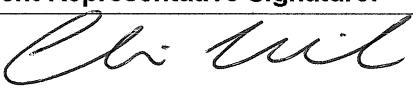
Bass Strait Oil Gas Company Ltd	: 3 paper copies
Attn: Tom Brand	: 1 electronic copy
Fugro Survey Pty Ltd	: 1 paper copy
	: 1 electronic copy

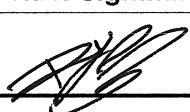
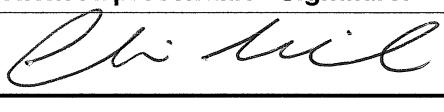
APPENDIX A
DAILY OPERATIONS REPORTS

CLIENT: LABRADOR / BSOC		LOCATION: BASS STRAIT		DATE: 2-OCT-2004	
PROJECT: RIG MOVE TO MOBY-1			VESSEL: OCEAN PATRIOT		JOB NO: P0137
FROM	TO	SUMMARY OF OPERATIONS			
1115	1710	R. Risah & S. Bradley travel from Perth to Melbourne			
1710		Arrive in Melbourne			
1750	1830	Travel from airport to hotel			
1830		Check-in Batmans Hill hotel, Melbourne			
RIG EQUIPMENT	NO.	AHT EQUIPMENT	NO.	PERSONNEL	TITLE
				R. Risah	Surveyor / PC
				S. Bradley	Survey Engineer
VEHICLES: 2 x Taxi					
CONSUMABLES:					
ACCOMMODATION: 2x Hotel					
AUTHORISED CONTRACT CHANGES / COMMENTS:					
Party Chief Signature:		Client Representative Signature:			D O R Number
					P0137-01

CLIENT: LABRADOR / BSOC		LOCATION: BASS STRAIT		DATE: 3-OCT-2004	
PROJECT: RIG MOVE TO MOBY-1		VESSEL: OCEAN PATRIOT		JOB NO: P0137	
FROM	TO	SUMMARY OF OPERATIONS			
0700		Check-out Batmans Hill hotel, Melbourne			
0730	0750	Travel from Melbourne to Essendon airport			
0800		Check-in at Bristows for offshore transfer to rig			
0915	1015	Travel from Essendon airport to Mallacoota			
1015		Arrive at Mallacoota airport			
1100	1115	Travel from Mallacoota airport to Ocena Patriot rig			
1130	1150	Attend rig's arrival induction (refresher)			
1300		Power-up survey equipment onboard rig			
1500		Seis parameters and wombat checked and tested			
1645	1715	Measure offsets measurements			
1900	1930	Pre-Rig Move meeting			
1940	2310	Grappeling for broken port tow wire			
2330	2359	Connecting tow wire to Wrangler			
RIG EQUIPMENT	NO.	AHT EQUIPMENT	NO.	PERSONNEL	TITLE
Starfix.Seis	2	Starfix.Seis (remote)	3	R. Risah	Surveyor / PC
Starfix.Spot DGPS	2	Fluxgate compass	3	S. Bradley	Survey Engineer
Gyro Compass	2	Radio Modem	3		
Radio Modem	2	UPS	3		
UPS	2				
Theodolite	1				
Printer	1				
VEHICLES: 1x Taxi					
CONSUMABLES:					
ACCOMMODATION: 2x onboard rig					
AUTHORISED CONTRACT CHANGES / COMMENTS:					
13:00hr – Survey equipment power-up and operational					
Party Chief Signature:		Client Representative Signature:		D O R Number	
				P0137-02	

CLIENT: LABRADOR / BSOC		LOCATION: BASS STRAIT		DATE: 4-OCT-2004	
PROJECT: RIG MOVE TO MOBY-1		VESSEL: OCEAN PATRIOT		JOB NO: P0137	
FROM	TO	SUMMARY OF OPERATIONS			
0000	0135	Connecting tow wire to Wrangler			
0155	2359	Rig resumes undertow to Moby-1 location			
1345	1400	Conduct navigation system comparison check $\Delta E = -2.06m$ $\Delta N = 0.26m$			
1620	1645	Conduct sun observation (sunshot) for gyro calibration. Gyro correction = +1.04°			
2310		#5 PCC to Far Grip			
RIG EQUIPMENT	NO.	AHT EQUIPMENT	NO.	PERSONNEL	TITLE
Starfix.Seis	2	Starfix.Seis (remote)	3	R. Risah	Surveyor / PC
Starfix.Spot DGPS	2	Fluxgate compass	3	S. Bradley	Survey Engineer
Gyro Compass	2	Radio Modem	3		
Radio Modem	2	UPS	3		
UPS	2				
Theodolite	1				
Printer	1				
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION: 2x onboard rig					
AUTHORISED CONTRACT CHANGES / COMMENTS:					
Party Chief Signature:		Client Representative Signature:		D O R Number	
				P0137-03	

CLIENT: LABRADOR / BSOC		LOCATION: BASS STRAIT		DATE: 5-OCT-2004	
PROJECT: RIG MOVE TO MOBY-1		VESSEL: OCEAN PATRIOT		JOB NO: P0137	
FROM	TO	SUMMARY OF OPERATIONS			
0000	0230	Run-in approach to #5 drop location			
0230		Rig at Moby-1 location, commence anchor deployment operations			
0240		#5 anchor deployed by Far Grip	E633370	N5789703	
0435		#1 anchor deployed by Far Grip	E631284	N5790107	
0633		#4 anchor deployed by Far Grip	E633071	N5790749	
0840		#8 anchor deployed by Far Grip	E631596	N5789025	
0850	0910	Pre-tension primary anchors			
1105		Wrangler disconnects from tow bridle			
1450		Decision made by OIM and BSOC company man to re-orientate rig heading to 270° and re-deploying all primary anchors			
1500	1510	Calculating revised anchor design configuration			
1525		#7 anchor deployed by Wrangler	E631727	N5788916	
1730		#8 anchor deployed by Wrangler	E631338	N5789340	
1950		#2 anchor deployed by Wrangler	E631809	N5790904	
2050	2359	Suspend anchor deployment operations until weather and sea conditions improve			
RIG EQUIPMENT	NO.	AHT EQUIPMENT	NO.	PERSONNEL	TITLE
Starfix.Seis	2	Starfix.Seis (remote)	3	R. Risah	Surveyor / PC
Starfix.Spot DGPS	2	Fluxgate compass	3	S. Bradley	Survey Engineer
Gyro Compass	2	Radio Modem	3		
Radio Modem	2	UPS	3		
UPS	2				
Theodolite	1				
Printer	1				
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION: 2x onboard rig					
AUTHORISED CONTRACT CHANGES / COMMENTS:					
Party Chief Signature:		Client Representative Signature:		D O R Number	
				P0137-04	

CLIENT: LABRADOR / BSOC		LOCATION: BASS STRAIT		DATE: 6-OCT-2004	
PROJECT: RIG MOVE TO MOBY-1			VESSEL: OCEAN PATRIOT		JOB NO: P0137
FROM	TO	SUMMARY OF OPERATIONS			
0000	0600	Anchor deployment operations suspended. Stand-by for weather to improve			
0600		Resume anchor deployment operations			
0953		#1 anchor deployed by Wrangler	E631342	N5790526	
1048		#3 anchor deployed by Wrangler	E632908	N5790856	
1245		#4 anchor deployed by Wrangler	E633338	N5790420	
1720		#6 anchor deployed by Wrangler	E632924	N5788880	
1955		#5 anchor deployed by Wrangler	E633359	N5789280	
2100	2120	Pre-tensioning #1 & #5 anchors			
2235		#8 anchor redeployed by Wrangler	E631290	N5789223	
2350		#8 anchor redeployed by Wrangler	E631120	N5789276	
RIG EQUIPMENT	NO.	AHT EQUIPMENT	NO.	PERSONNEL	TITLE
Starfix.Seis	2	Starfix.Seis (remote)	3	R. Risah	Surveyor / PC
Starfix.Spot DGPS	2	Fluxgate compass	3	S. Bradley	Survey Engineer
Gyro Compass	2	Radio Modem	3		
Radio Modem	2	UPS	3		
UPS	2				
Theodolite	1				
Printer	1				
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION: 2x onboard rig					
AUTHORISED CONTRACT CHANGES / COMMENTS:					
Party Chief Signature:		Client Representative Signature:		D O R Number	
				P0137-05	

CLIENT: LABRADOR / BSOC		LOCATION: BASS STRAIT		DATE: 7-OCT-2004																																																	
PROJECT: RIG MOVE TO MOBY-1			VESSEL: OCEAN PATRIOT		JOB NO: P0137																																																
FROM	TO	SUMMARY OF OPERATIONS																																																			
0010	0030	Pre-tensioning #4 & #8 anchors																																																			
0251		#8 anchor redeployed	E631117	N5789365																																																	
0400	0420	Pre-tensioning #3 & #7 anchors																																																			
0600	1100	Ballasting down to drilling draft of 23.5m (77ft)																																																			
1105	1120	Moving rig onto final position at Moby-1 location																																																			
1130	1230	Logging final drill stem (surface) position at Moby-1																																																			
		Moby-1 surface position: Lat 38° 01' 44.25"S Long 148° 30' 27.40"E E 632316.41 N 5789884.86 2.4 m @ 327.2° from design position																																																			
1300		Submit final position report to client																																																			
1400		Shut down survey equipment																																																			
1530	1905	Fugro personnel depart rig enroute to West Sale and Essendon Airport																																																			
		Fugro personnel travel from Melbourne to Perth																																																			
2000		CHECK-IN BATSMAN HILL HOTEL, MELBOURNE																																																			
<table border="1"> <thead> <tr> <th>RIG EQUIPMENT</th> <th>NO.</th> <th>AHT EQUIPMENT</th> <th>NO.</th> <th>PERSONNEL</th> <th>TITLE</th> </tr> </thead> <tbody> <tr> <td>Starfix.Seis</td> <td>2</td> <td>Starfix.Seis (remote)</td> <td>3</td> <td>R. Risah</td> <td>Surveyor / PC</td> </tr> <tr> <td>Starfix.Spot DGPS</td> <td>2</td> <td>Fluxgate compass</td> <td>3</td> <td>S. Bradley</td> <td>Survey Engineer</td> </tr> <tr> <td>Gyro Compass</td> <td>2</td> <td>Radio Modem</td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>Radio Modem</td> <td>2</td> <td>UPS</td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>UPS</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Theodolite</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Printer</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						RIG EQUIPMENT	NO.	AHT EQUIPMENT	NO.	PERSONNEL	TITLE	Starfix.Seis	2	Starfix.Seis (remote)	3	R. Risah	Surveyor / PC	Starfix.Spot DGPS	2	Fluxgate compass	3	S. Bradley	Survey Engineer	Gyro Compass	2	Radio Modem	3			Radio Modem	2	UPS	3			UPS	2					Theodolite	1					Printer	1				
RIG EQUIPMENT	NO.	AHT EQUIPMENT	NO.	PERSONNEL	TITLE																																																
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Printer	1																																																				
VEHICLES: 3x Taxi																																																					
CONSUMABLES:																																																					
ACCOMMODATION: Transit HOTEL <i>[Signature]</i>																																																					
AUTHORISED CONTRACT CHANGES / COMMENTS: 14:00hrs Shut down survey equipment onboard rig																																																					
Party Chief Signature:		Client Representative Signature:			D O R Number																																																
<i>[Signature]</i>		<i>[Signature]</i>			P0137-06																																																

Fugro Marine Division
FSHY01-1
DAILY OPERATIONS REPORT



CLIENT: LABRADOR / BSOC		LOCATION: BASS STRAIT		DATE: 8-OCT-2004	
PROJECT: RIG MOVE TO MOBY-1		VESSEL: OCEAN PATRIOT		JOB NO: P0137	
FROM	TO	SUMMARY OF OPERATIONS			
1000		Check-out Batmans's Hill hotel, Melbourne			
1030	1100	Travel from hotel to Melbourne airport			
1125	1330	R. Risah & S. Bradley travel from Melbourne to Perth			
RIG EQUIPMENT	NO.	AHT EQUIPMENT	NO.	PERSONNEL	TITLE
				R. Risah	Surveyor / PC
				S. Bradley	Survey Engineer
VEHICLES: 3x Taxi					
CONSUMABLES:					
ACCOMMODATION:					
AUTHORISED CONTRACT CHANGES / COMMENTS:					
Party Chief Signature:		Client Representative Signature:			D O R Number
					P0137-07

APPENDIX B
FINAL POSITIONING DATA

RIG POSITION FIELD REPORT

Moby-1



Client : Bass Strait Oil Co.

Job Number : P0137

Rig : MODU OCEAN PATRIOT

Date: 7-Oct-04

Project : Rig move to Moby-1 location, Permit Vic/P47, Bass Strait

Attention : C. Wilson Drilling Supervisor - Bass Strait Oil Company

The surface location of the drill stem on the Ocean Patriot was derived from 60 minutes of observations of the Primary Differential GPS data, between 1130 hrs and 1230 hrs on completion of all anchor pre-tensioning.

The results of the observations are as follows:

Geographical Coordinates		Grid Coordinates	
Latitude	38 ° 01 ' 44.25 " South	Easting	632316.41
Longitude	148 ° 30 ' 27.40 " East	Northing	5789884.86

The drill stem position is 2.4 m at a bearing of 327.2 ° Grid from the design location.

The Client supplied design location for Moby-1:

Geographical Coordinates		Grid Coordinates	
Latitude	38 ° 1 ' 44.31 " South	Easting	632317.70
Longitude	148 ° 30 ' 27.46 " East	Northing	5789882.87

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

270.28 ° True 271.21 ° Grid

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

Datum : AGD 66

Projection : AMG

Spheroid : ANS

Zone (Central Meridian) 55 147 ° East

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

Anchor	Easting	Northing	Azimuth(°)
1	631433	5790491	303.0 °
2	631864	5790845	334.5 °
3	632884	5790787	31.1 °
4	633222	5790363	63.2 °
5	633205	5789349	119.3 °
6	632842	5788985	149.0 °
7	631764	5789009	210.5 °
8	631163	5789404	247.2 °

Party Chief/Surveyor:

R. Risah

Survey Representative:

A. Sellers

FINAL CALCULATION SUMMARY SHEET



Client	Bass Strait Oil Co.
Job No.	P0137
Surveyor	R. Risah

DRILLING RIG	MODU OCEAN PATRIOT
LOCATION	Moby-1
DATE	07/October/2004

AMG	d	m	s
CRP - Easting	632316.410		
CRP - Northing	5789884.860		

AGD 66	d	m	s
Latitude	-38	1	44.2472
Longitude	148	30	27.4020
Grid Conv.(DMS)	0	55	44.0883
Grid Conv.(DEC)	0.93		
PSF	0.999815627		
Height	10.000		

Vessel Heading	d	m	s
Heading (True dms)	270	16	48.0000
Heading (True degs)			270.28
Heading (Grid dms)	271	12	32.0883
Heading (Grid degs)			271.21

WGS 84	d	m	s
Latitude	-38	1	38.7185
Longitude	148	30	31.9202
Height			3.166

Navigation Antenna	Vessel Offsets		Calc'd Bearing & Distance				AMG			AGD 66			WGS 84		
	x	y	d	m	s	distance	East	North		d	m	s	d	m	s
Primary Antenna	-8.9	41.9	259	13	1	42.835	632274.33	5789876.85	Lat.	-38	1	44.5293	-38	1	39.0006
Secondary Antenna	-8.2	43.9	260	37	43	44.659	632272.35	5789877.59	Long.	148	30	25.6819	148	30	30.2001

3.25" Chain = 91.45 lbs/ft wet

3" Chain = 77.90 lbs/ft wet

2.75" Chain = 65 lbs/ft wet

Anchor	Fairlead Offsets			Grid Bng/Distance Fairlead to Anchor		Calc'd Anchor Position	
	x	y	z	Dec. Deg	distance	East	North
1	33.50	42.00		304.2	1017.8	631433	5790491
2	33.50	39.00		335.9	1014.5	631864	5790845
3	33.50	-24.00		32.0	1024.7	632884	5790787
4	33.50	-27.00		63.1	984.0	633222	5790363
5	-33.50	-27.00		120.2	997.7	633205	5789349
6	-33.50	-24.00		149.9	1000.8	632842	5788985
7	-33.50	39.00		211.3	986.7	631764	5789009
8	-33.50	42.00		248.0	1197.5	631163	5789404

Chain Wt. (lbs/ft)	77.9						
Chain Wire Paid out (ft)	Water Depth (ft)	Chain Tension (lbs)	1/2 Catenary Length	Horizontal Distance to Touchdown	Horizontal Distance to Anchor (ft)	Horizontal Distance to Anchor (m)	
3355	141.6	209000	860.1	844.5	3339.4	1017.8	
3345	141.6	189000	816.7	800.3	3328.5	1014.5	
3378	141.6	198000	836.5	820.5	3361.9	1024.7	
3244	141.6	206000	853.7	838.0	3228.3	984.0	
3289	141.6	209000	860.1	844.5	3273.4	997.7	
3299	141.6	211000	864.3	848.8	3283.4	1000.8	
3253	141.6	204000	849.5	833.6	3237.2	986.7	
3945	141.6	198000	836.5	820.5	3928.9	1197.5	

APPENDIX C
DGPS AND GYRO CHECKS

RIG POSITIONING

GEODESY AND COORDINATE CHECK LIST



Client : Bass Strait Oil Co. Job Number : P0137
 Rig : MODU OCEAN PATRIOT Date: 06/October/2004
 Project : Rig move to Moby-1 location, Permit Vic/P47, Bass Strait

1. CONFIRMATION OF PROPOSED RIG COORDINATES and HEADING.

Well Name Moby-1 Ensure agreement with Client onsite prior to any positioning
 Well Location – Latitude 38 1 44.3111 S Operations. OK (?) N.
 Well Location – Longitude 148 30 27.4563 E
 Rig Heading (True) 270 ° T

2. GEODETIC PARAMETERS (WGS84 to LOCAL DATUM)

DATUM:	Dx	123.314	Ensure agreement with Client onsite prior to positioning Operations.
(WGS84 to Local Datum)	Dy	47.223	OK (?) <input checked="" type="checkbox"/> N.
	Dz	-136.594	
	Rx	0.2640	
Projection:	Ry	0.3220	
	Rz	0.2700	
	Ds	1.3840 ppm	
UTM Zone		55	
Central Meridian		147 ° East	

3. CHECK TRANSFORMATION OF SITE COORDINATES.

Well Location – Easting	632317.7	Ensure agreement with PCNav / Starfix.Seis. OK (?) <input checked="" type="checkbox"/> N
Well Location – Northing	5789882.9	If not, CHECK and RECALC.
Convergence at Location	0.93	
Rig Heading (° Grid)	270.93	

4. MEAS. ANT. OFFSETS from ANT. TO D/STEM (Rel. to Datum) NAV #1 SYSTEM NAV #2 SYSTEM

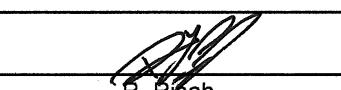
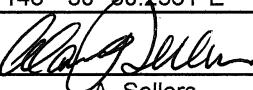
(Measure two (2) separate directions, verifying closure.)

Delta X(m)	-8.9	-8.2
Delta Y(m)	41.9	43.9
Angle between Rig Centreline and Antenna(s) (Grid)	348.008	349.4
Distance between Drill Stem and Antenna(s)	42.83	44.66

5. MANUAL COORDINATE VERIFICATION FOR ANTENNAS NAV #1 SYSTEM NAV #2 SYSTEM

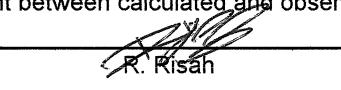
Proposed Drill Stem Position	Easting	632317.7	632317.7
	Northing	5789882.9	5789882.9
Drill Stem to Antenna	Proposed Hdg (G)	270.93	270.93
Brg (G) = Prop. Hdg. + Angle btwn centreline and antenna		618.94	260.35
	Distance (m)	42.83	44.66
Calculated Antenna Coordinates (Local)	Easting	632275.66	632273.67
	Northing	5789874.65	5789875.38
	Latitude	38 1 44.5998 S	38 1 44.5771 S
	Longitude	148 30 25.7379 E	148 30 25.6559 E

Calculated Proposed Antenna Coords (WGS 84)	Latitude	38 1 39.0711 S	38 1 39.0484 S
	Longitude	148 30 30.2561 E	148 30 30.1740 E

Surveyor :  Client Rep  Date : 5-oct-2004
 R. Risah A. Sellers

6. POST RIG MOVE – OBSERVED ANTENNA COORD

Observed WGS84 Antenna Positions	Latitude	38 1 39.05 "S	38° 1' 38.98 "S
	Longitude	148° 30' 39.23 "E	148° 30' 30.16 "E

Ensure agreement between calculated and observed coordinates. If NO, check calcs., antenna offsets. OK (?) N
 Surveyor :  Client Rep  Date : 7-oct-2004
 R. Risah A. Sellers

RIG POSITIONING

DGPS CHECK LIST (PRE RIG MOVE)



Client : Bass Strait Oil Co.

Job Number :

P0137

Rig : MODU OCEAN PATRIOT

Date:

04-Oct-04

Project : Rig move to Moby-1 location, Permit Vic/P47, Bass Strait

1) NAVIGATION SYSTEMS COMPARISON CHECK

The antennae position data of primary and secondary systems were observed for 10 minutes from 13:48 hrs to 13:58 hrs on 04 October 2004 to compare the difference between Primary and Secondary Navigation Systems.

	Easting	Northing
Primary Navigation	684836.17	5787191.62
Secondary Navigation	684838.23	5787191.36
Differences	-2.06	0.26

Ensure agreement OK(?) Y / N

If No, Check antenna offsets and gyro calibration.

Party Chief/Surveyor:

A handwritten signature in black ink, appearing to read "R. Risah".

Client Representative:

A handwritten signature in black ink, appearing to read "A. Sellers".

A. Sellers

GYRO COMPASS CALIBRATION - CALCULATION SUMMARY



Client : Bass Strait Oil Co.

Job Number : P0137

Rig : MODU OCEAN PATRIOT

Date: 4-Oct-04

Project : Rig move to Moby-1 location, Permit Vic/P47, Bass Strait

Deg	Min	Sec
349	56	26
Correction Angle (RO to Lubberline)		

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			Longitude			Deg	Min	Sec	Dec. Deg	Deg	Min	Sec	Dec. Deg								
			Deg	Min	Sec	Deg	Min	Sec																
1	4-Oct-04	6:29:40	-38	3	4	148	56	10	279	32	19	279.539	13	24	28	13.408	256.071	254.7	0.2670	1.37				
2	4-Oct-04	6:30:44	-38	3	4	148	56	10	279	21	43	279.362	13	22	0	13.367	255.936	253.8	0.2670	2.14				
3	4-Oct-04	6:31:30	-38	3	4	148	56	10	279	14	7	279.235	13	1	47	13.030	256.146	253.5	0.2670	2.65				
4	4-Oct-04	6:34:57	-38	3	4	148	56	10	278	40	4	278.668	13	56	25	13.940	254.668	253.8	0.2670	0.87				
5	4-Oct-04	6:38:03	-38	3	4	148	56	10	278	9	38	278.161	13	28	12	13.470	254.631	253.7	0.2670	0.93				
6	4-Oct-04	6:39:17	-38	3	4	148	56	10	277	57	34	277.960	13	56	31	13.942	253.958	252.7	0.2670	1.26				
7	4-Oct-04	6:39:53	-38	3	4	148	56	10	277	51	43	277.862	13	46	50	13.781	254.022	254.3	0.2670	-0.28				
8	4-Oct-04	6:40:33	-38	3	4	148	56	10	277	45	13	277.754	12	10	1	12.167	255.527	256.2	0.2670	-0.67				
9	4-Oct-04	6:41:49	-38	3	4	148	56	10	277	32	53	277.548	11	49	45	11.829	255.659	254.0	0.2670	1.66				
10	4-Oct-04	6:42:59	-38	3	4	148	56	10	277	21	33	277.359	14	9	27	14.158	253.142	252.7	0.2670	0.44				

Surveyor : _____

R. Risah

Client Rep : _____

A. Sellers

Required Starfix.Seis Gyro Correction =

NOTE: Gyro correction of +0.00°
Entered During calibration
Hence new correction 1.04

Mean	1.04
Std. Deviation	1.02
Maximum	2.65
Minimum	-0.67
Range	3.32

PROPOSED CALCULATION SUMMARY SHEET



Client	Bass Strait Oil Co.
Job No.	P0137
Surveyor	R. Risah

DRILLING RIG	MODU OCEAN PATRIOT
LOCATION	Moby-1
DATE	06/October/2004

AMG	
CRP - Easting	632317.700
CRP - Northing	5789882.870

Vessel Heading	d	m	s
Heading (True dms)	270	0	0.0000
Heading (True degs)		270.00	
Heading (Grid dms)	270	55	44.1231
Heading (Grid deas)		270.93	

AGD 66	d	m	s
Latitude	-38	1	44.3111
Longitude	148	30	27.4563
Grid Conv.(DMS)	0	55	44.1231
Grid Conv.(DEC)		0.93	
PSF	0.999815631		
Height		0.000	

WGS 84	d	m	s
Latitude	-38	1	38.7823
Longitude	148	30	31.9744
Height			-6.834

Navigation Antenna	Vessel Offsets		Calc'd Bearing & Distance				AMG		Lat.	AGD 66			WGS 84		
	x	y	d	m	s	distance	East	North		d	m	s	d	m	s
Primary Antenna	-8.9	41.9	258	56	13	42.835	632275.661	5789874.650	Lat.	-38	1	44.5998	-38	1	39.0711
Secondary Antenna	-8.2	43.9	260	20	55	44.659	632273.673	5789875.383	Long.	148	30	25.7379	148	30	30.2561

3.25" Chain = 91.45 lbs/ft wet
3" Chain = 77.90 lbs/ft wet
2.75" Chain = 65 lbs/ft wet

APPENDIX D
PROJECT COORDINATE LISTING AND PROCEDURES

Anchoring procedures for Moby-1

Rig position to be as follows:

Lat. 38-01-44 South

Lon. 148-30-27 East

Current instruction indicates the rig will be on a heading of 250 degrees, using a 30 degree spread on the primary anchors.

Rig heading 250 degrees

Anchor #1 heading 280 degrees

Anchor #4 heading 040 degrees

Anchor #5 heading 100 degrees

Anchor #8 heading 220 degrees

The possibility exists that this will create communications interference from the derrick and cranes.

At about 1700, MV Far Grip will pass the secondary tow bridle back to Ocean Patriot and MV Pacific Wrangler will shorten tow. Pacific Wrangler will hold the rig with the wind on the port bow to let the rig drift astern and starboard. MV Far Grip will fish with her grapnel for the broken tow wire. Upon recovery of the wire, MV Far Grip will connect the port bridle leg and two will be resumed to Moby 1 well site.

Approximately 1 mile from location, the tow vessels will reduce speed to minimum and MV Far Grip will disconnect from the port leg of the tow bridle, connect the bridle leg to the monkey face and return the monkey face to the rig. MV Far Grip will then rig up to run anchors and take the PCC wire for #5 anchor and prepare to run.

MV Pacific Wrangler will shorten tow and bring rig in as close as possible to location. At this time, MV Far Grip will run anchor #5 out to 1000 meters and put on bottom.

MV Far Grip will run anchor #1 out to 1000 meters and put on bottom.

MV Far Grip will run anchor #4 out to 1000 meters and put on bottom.

MV Far Grip will run anchor # 8 out to 1000 meters and land anchor #8 on bottom.

No anchor or PCC work is presently planned.

The rig winch operator will tension up the chains to approximately 100 tons to ensure anchors are holding. If the anchors hold, the tensions will be dropped to approximately 60 to 70 tons.

MV Far Grip will be released after 4 anchors are run.

RECEIVED 03/10/04
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[Signature]

Bass Strait Oil Company Limited



Moby-1 Pre-Spud Meeting

*Stirling Room
Parmelia Hilton
Mill Street
Perth WA*

Vic / P - 47

30 September 2004

1. General

1.1 Well Summary Data

Well:		Moby-1
Type of Well		Vertical Exploration
Permit		Vic/P47
Equity		BSOC (Operator) 75% Eagle Bay Resources NL 25%
Objectives	Primary	Gurnard & Barracouta Formations
Seismic Line		Baleen 3D Inline 601 CDP Point 4403
Location	<i>Latitude:</i> <i>Longitude:</i>	38° 01' 44.31" S 148° 30' 27.46" E
	<i>Northing:</i> <i>Easting:</i> AMG	5 789 882.87N 632 317.70E UTM Zone 55
Rig Location Tolerance		20m radius of target location
Target Tolerance		50m radius of target location
Target Depth		Strzelecki Group 607mRT
RT above sea Level		~22m
Water Depth		~53m
General Reference Datum		AGD66
Rig Heading		~240°
Anticipated Spud Date		September 2004
Proposed Total Depth		625m RT
Estimated Time to Drill		~8 days
Drilling Contractor		Diamond Offshore
Rig Type		Semi Submersible
Rig Name		Ocean Patriot
Attendant Craft	AHSV 1	Far Grip
	AHSV 2	Pacific Wrangler
	Helicopter	Bristow Helicopters – Supa Puma
Operator Personnel on Site		Drilling Supervisor, Night Supervisor,

		Geologist
Proposed Hole Sizes		914mm (36") -100mMDRT (-78mTVDSS) 445mm (17 ½") – 330mMDRT (-308mTVDSS) 216mm (8 ½") – 625mMDRT (603mTVDSS)
Proposed Casing Programme (shoe setting depth)		762mm x 508mm (30" x 20") - 97mMDRT (-75mTVDSS) 340mm (13 3/8") – 325mMDRT (303mTVDSS)
Proposed Mud System		Riserless drilling to approx. 330mMDRT in 914mm (36") and 445mm (17 ½") hole sections using seawater with high viscosity prehydrated bentonite (PHB) sweeps. 6% KCL/PHPA drilling fluid system in 216mm (8 ½") hole section to TD.
Proposed Logging Programme	Mud logging LWD Wireline	340mm (13 3/8") casing point to TD; drilling parameters from spud None Logging open hole below 340mm (13 3/8") casing to total depth with DLL/MLL/MAC/ZDL/CN/SL/TTRM (GR-MAC to seafloor). Contingent services to include RCI-GR (for pressure/samples), VSP/Checkshot Survey/SWC-GR if hydrocarbons are encountered

1.2 Geological Objectives

1. Test a seismic amplitude anomaly at the top of the Gurnard Formation reservoir level outside of the area of four way dip closure to ensure that the broader Moby entrapment mechanism is shown to be valid.
2. Determine reservoir quality in the Gurnard Formation, the underlying Latrobe Group Barracouta Formation and upper penetrated part of the Strzelecki Group.
3. Sample any gas encountered and measure its composition. Determine if it is likely to be in communication with an oil column downdip.
4. Determine if a seal exists between the Gurnard Formation, Barracouta Formation and Strzelecki Group
5. Determine if any gas pay in the Gurnard is in communication with the Barracouta Formation.
6. Sample and identify any oil pay in the Gurnard Formation, Barracouta Formation or Strzelecki Groups and measure its characteristics in order to determine likely well initials.
7. Allow calibration of this well with existing and any future 3D seismic surveys (in a success case) from a quantitative seismic analysis perspective.

1.3 *Drilling Objectives*

1. Complete the well with no safety or environmental incidents.
2. Drill the well within well AFE cost.
3. Deliver good hole conditions to achieve the Geological Objectives of the well.

1.4 *Location and Transport*

Moby-1 is located in Vic/P47 approximately 350km east of Port Melbourne (Wharf #27), the supply base & port used by the rig supply boats. The one-way steaming time from location to Wharf #27 will be ~30hours. Crew changes will take place out of Essendon by helicopter and flight duration will be ~100 mins. Loadout will be from Eden and demobilisation via following operator (Santos).

1.5 *Rig Sequence*

The Ocean Patriot will be towed to Moby-1 in Vic/P47 from a New Zealand location. The rig and third party service charges to Moby-1 will commence when the first anchor is on bottom at the Moby-1 well location and will cease when the last anchor is racked departing Moby-1.

1.6 *Procedures and Regulations*

Well construction design and operational procedures will be conducted in accordance with the following documents:

- Moby-1 Drilling and Evaluation Program
- Cameron STC-10 Wellhead System Manual
- BSOC Offshore Drilling Policies and Procedures
- Moby-1 Bridging Document
- Diamond Offshore Drilling Operations Manual
- Diamond Offshore Well Control Procedures
- Diamond Offshore Ocean Patriot Vessel Safety Case
- BSOC Drilling HSE Plan
- BSOC Emergency Response Plan for Vic/P42 & Vic/P47
- BSOC Oil Spill Contingency Plan for Vic/P42 & Vic/P47
- BSOC Environmental Plan – Moby-1

1.7 *Regulations*

Drilling Operations will be conducted in accordance with the regulations and directions issued by the Australian Commonwealth Government under the Commonwealth Petroleum (Submerged Lands) Act 1967, the Victorian Occupational Health and Safety Act 1985, Petroleum (Submerged Lands) (Management of Safety on Offshore Facilities) Regulations 1997, the Petroleum (Submerged Lands) (Management of Environment) Regulations 1999, the Environmental Protection and Biodiversity Act 1999 and under the regulatory authority of the VIC-DPI for P(SL)A activities. It is also based on the APPEA, Code of Environmental Practice – Onshore and Offshore.

Bass Strait Oil Company HSE Policies



BASS STRAIT OIL COMPANY Ltd
ACN 008 694 817

Level 25
500 Collins Street
Melbourne Victoria 3000 Australia

Tel: (+61 3) 9614 0426
Fax: (+61 3) 9629 6278
Email: admin@bassoil.com.au
Website: www.bassoil.com.au

BASS STRAIT OIL COMPANY LTD

SAFETY POLICY

At Bass Strait Oil Company Ltd., our goal is to always make Safety an essential and integral part of the way we conduct our business.

We are committed to achieve and maintain safety as an instinctive behaviour for everybody associated with Bass Strait Oil.

We recognise that safety is a state of mind, so encourage every employee to develop and maintain a responsible, self-disciplined attitude to their own and others' safety. Safety as a way of thinking about work is characterised by behaviours such as:

- anticipating problems before they occur;
- a continuous careful, alert analysis of our working environment; and,
- a disciplined approach where we all take responsibility for our actions.

Management recognises that it has, and those who provide services on behalf of Bass Strait Oil have, a responsibility to provide a safe work place and safe systems of work. To ensure this responsibility is fulfilled Bass Strait Oil will provide and shall want its contractors to provide the required information, resources and training.

To ensure we maintain ourselves as a leader in Safety, there will be a continuous process of monitoring, and evaluation of our procedures, equipment and operations to assure that our practices are always the best available.

Safety will always remain a fundamental part of the way we do things at Bass Strait Oil.



Geoffrey Albers
Managing Director
July 2004



BASS STRAIT OIL COMPANY Ltd
ACN 008 694 817

Level 25
500 Collins Street
Melbourne Victoria 3000 Australia

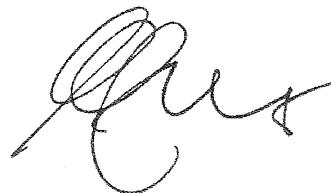
Tel: (+61 3) 9614 0426
Fax: (+61 3) 9629 6278
Email: admin@bassoil.com.au
Website: www.bassoil.com.au

BASS STRAIT OIL COMPANY LTD

ENVIRONMENT POLICY

To prevent or minimise any possible environmental impact as a result of its operations, Bass Strait Oil Company Ltd. commits itself, and will encourage those companies providing services to Bass Strait Oil, to:

- comply, at a minimum, with applicable laws, regulations, standards and guidelines for the protection of the environment and in their absence adopt the best practicable means to prevent or minimise adverse environmental impacts;
- work and consult with appropriate government agencies drafting policies laws, regulations or procedures to protect the environment;
- ensure that adequate waste management practices are carried out based on the prevention, minimisation, recycling, treatment and disposal of wastes;
- provide adequate training to enable employees to adopt environmentally responsible work practices and to be aware of their environmental responsibilities;
- develop emergency plans and procedures so that incidents can be responded to in a timely and effective manner;
- develop and maintain management systems to identify, control and monitor risks and compliance with government regulations and industry guidelines;
- monitor environmental effects and assess environmental performance at all stages of exploration, development, production and rehabilitation; and
- communicate openly with government, non-government bodies and the public in a timely manner on environmental issues which relate to Bass Strait Oil operations.

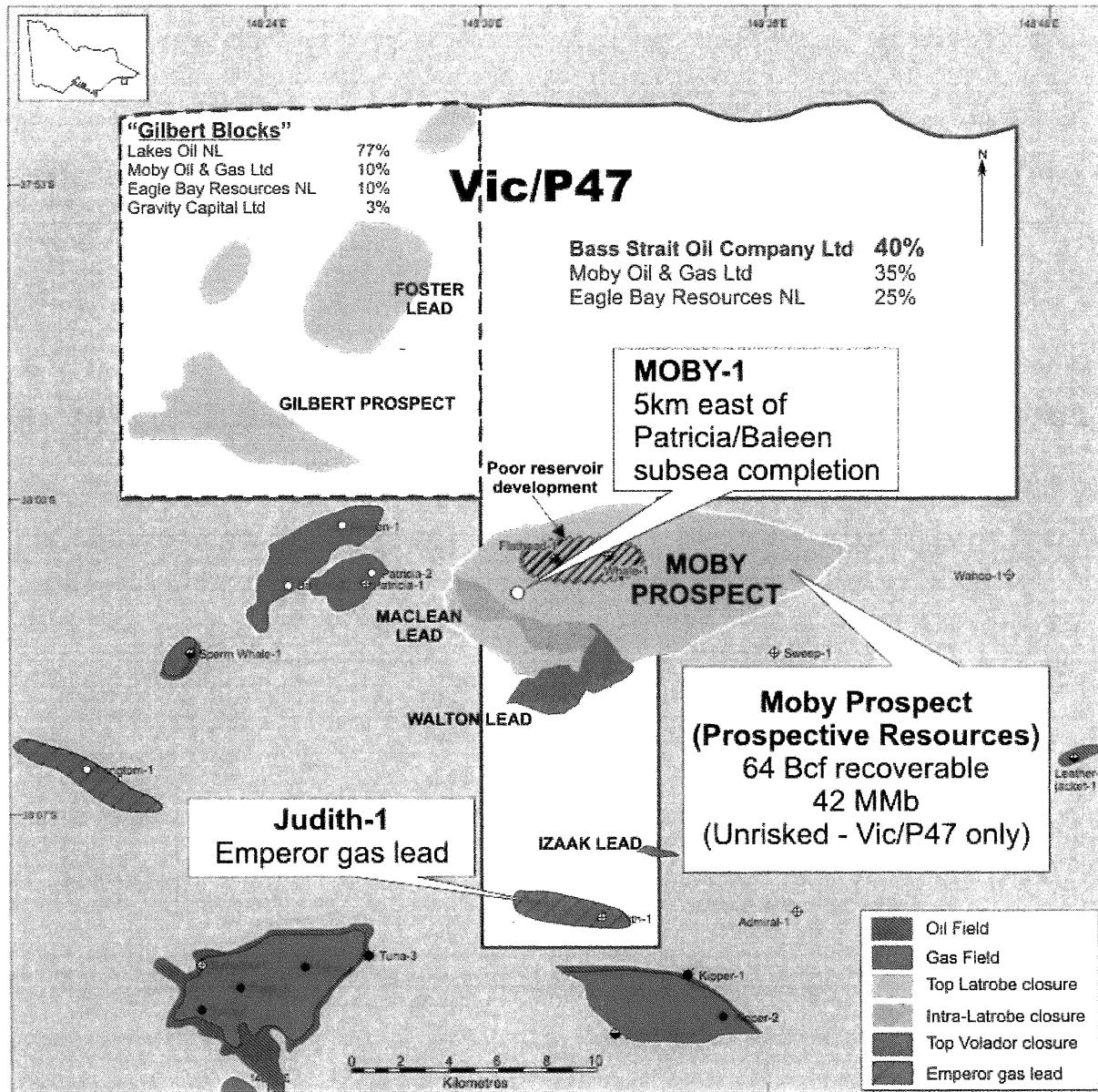


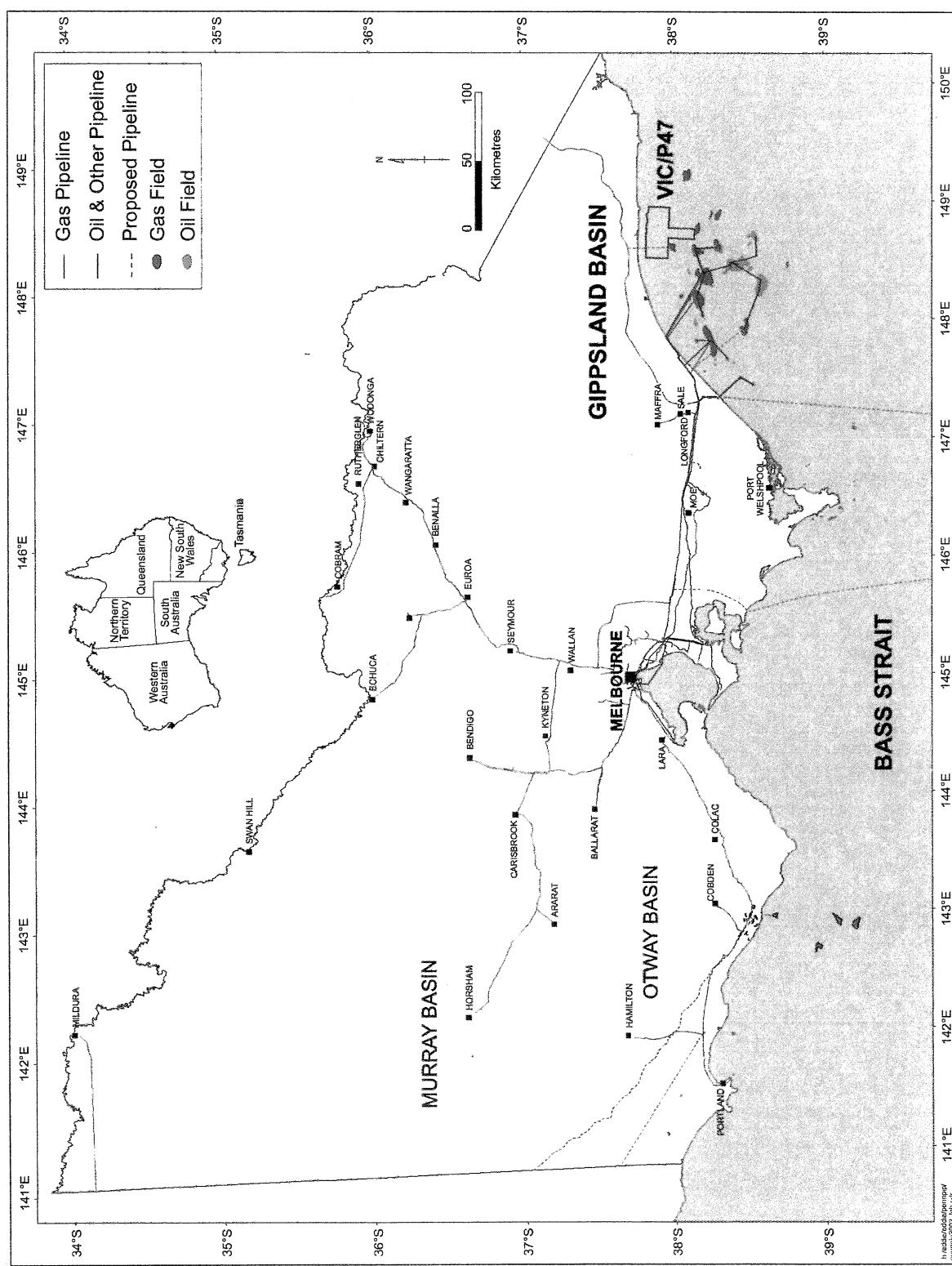
Geoffrey Albers
Managing Director
July 2004

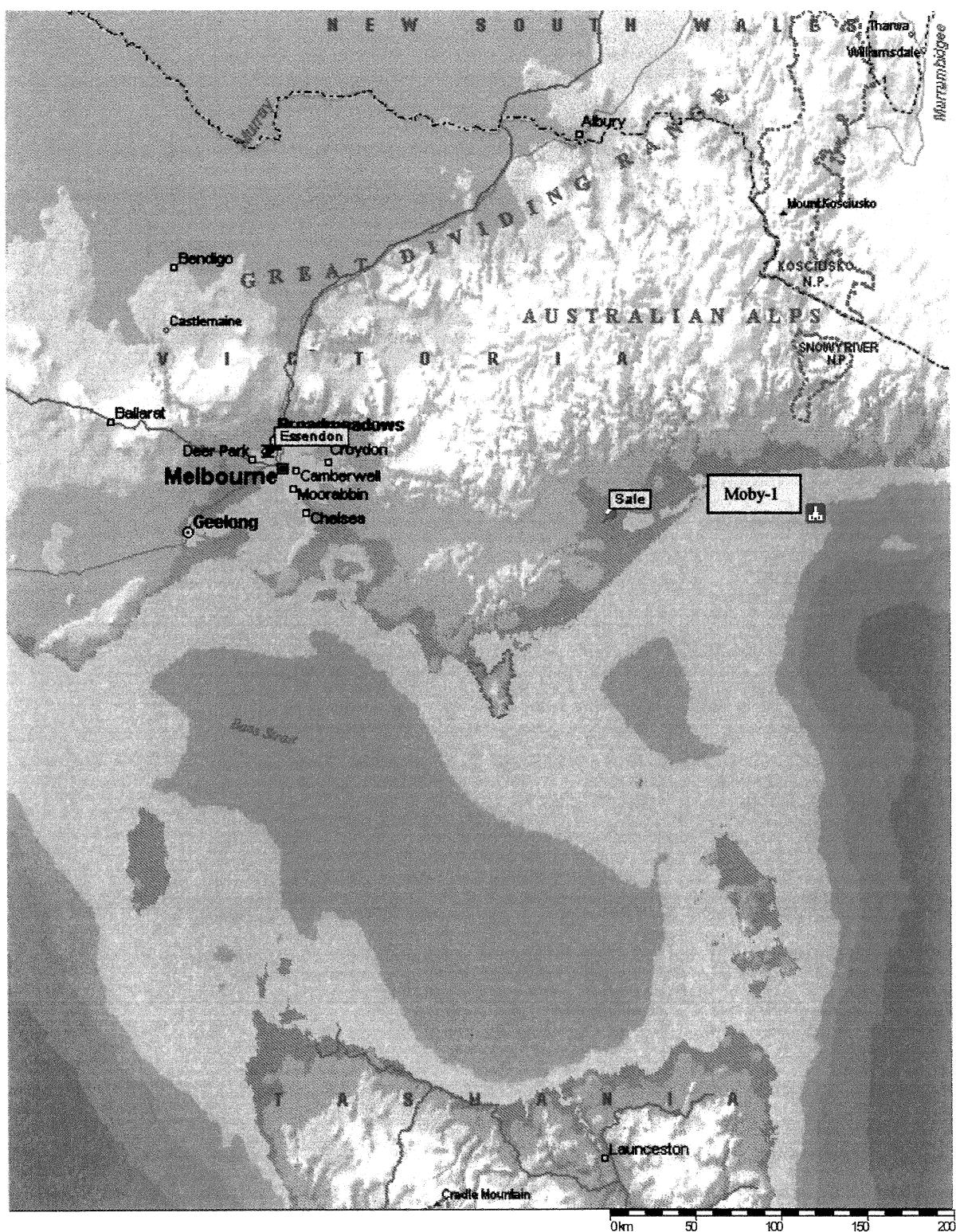
Administrative Details

<i>INVOICING</i>	<i>LEGAL NOTICES</i>
<p>Bass Strait Oil Company Limited c/o Labrador Petro Management PO Box 422 Nedlands WA 6909 Australia</p> <p>Phone: +61 8 8423 5600 Fax: +61 8 9386 6580 Attention: Mr Tom Brand – Project Advisor</p>	<p>Bass Strait Oil Company Limited Level 25, 500 Collins Street Melbourne Vic 3000 Australia</p> <p>Copy to: Attn: Mr Tom Brand – Project Advisor Labrador Petro Management PO Box 422, Nedlands WA 6909</p> <p>Phone: +61 3 9614 0426 Fax: +61 3 9629 6278 Attention: Mr Andrew Adams – Commercial Manager</p>

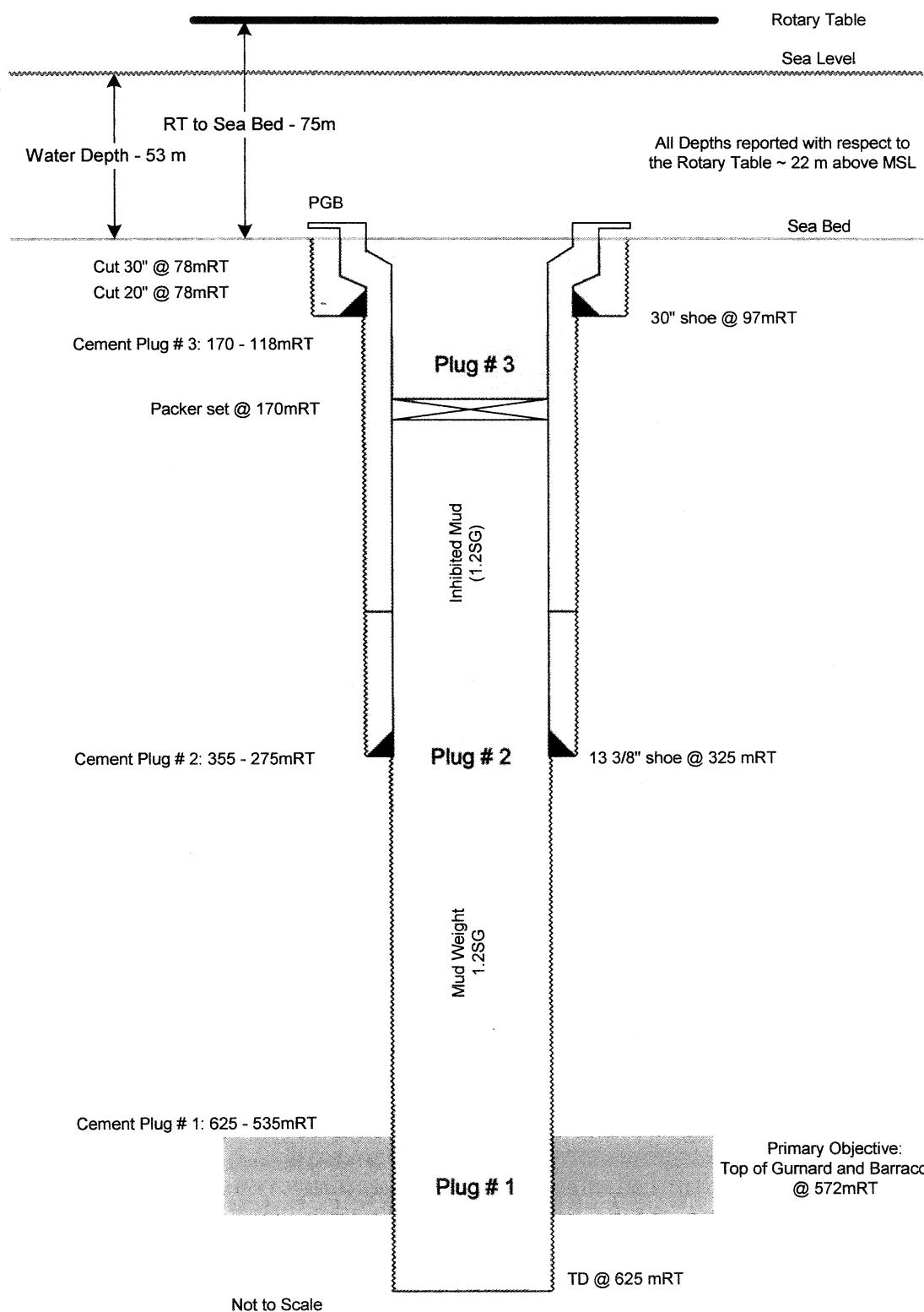
Location Maps



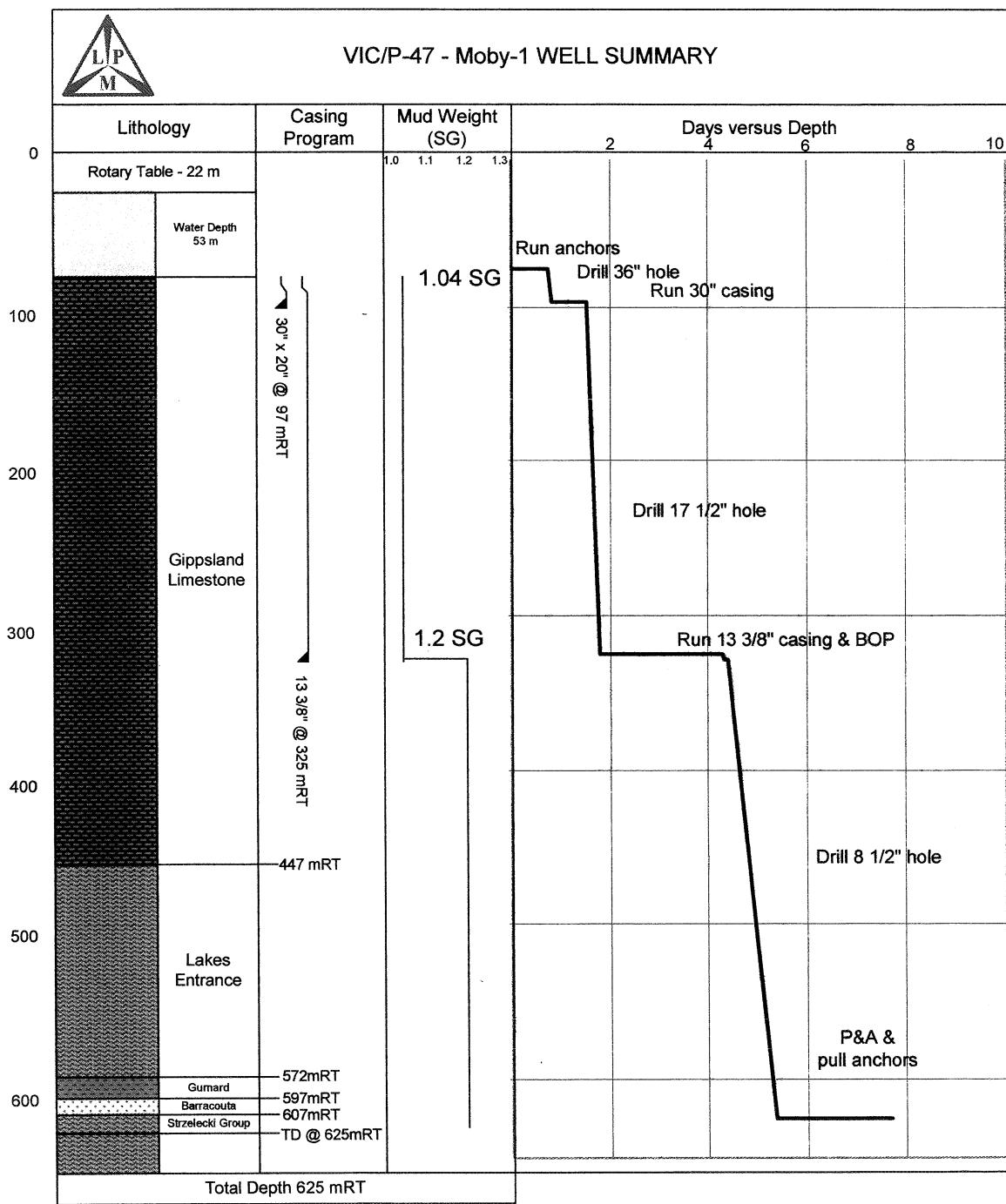




Proposed P&A Schematic



Well Summary



Offset Well Information

Well	Permit	Operator	Water Depth (m)	Spud Date	Distance from Moby-1 (km)
Baleen-1	Vic/P11	Hudbay Oil	55	4/11/81	7
Patricia-1	Vic/P19	Lasmo	51	26/6/87	5
Whale-1	Vic/P11	Hudbay Oil	52	1/12/81	5
Baleen-2	Vic/RL5	OMV	55	11/10/99	9
Flathead-1	Vic/P1	Esso	53	25/4/69	2

BASS STRAIT OIL COMPANY LTD

NOTICE REGARDING INSIDE INFORMATION

During the course of Bass Strait Oil Company Ltd's (BSOC) petroleum exploration operations, it is likely that a number of individuals will come in to possession of Inside Information. This notice is not a legal document, and is intended only to serve as a general summary of the restrictions on the use of Inside Information. The Corporations Act 2001 defines Inside Information and the prohibitions on its use in detail. Please seek appropriate advice if you have any questions regarding this issue.

Inside Information is information that is not generally available and which a reasonable person would expect to have a material effect on the price of a security, such as the share price of an Australian Stock Exchange (ASX) listed company. This could include BSOC and any of its joint venturers, where applicable. Examples of Inside Information could be drilling progress, the presence or absence of hydrocarbon shows, logging or testing well results – pretty much any information about the status of an operation that has not already been released to the ASX.

If you possess Inside Information, under the Corporations Act 2001, you must not apply for, acquire, or dispose of, relevant securities and;

- you must not agree to do any of these things;
- you must not procure another person do any of these things;
- you must not communicate, or cause to be communicated, the Inside Information to any person who you ought to reasonably know would do any of these things.

The penalty for an offence under this section of the Corporations Act 2001 (i.e. "insider trading") may be severe fines or 5 years imprisonment, or both.

In addition to the above, under BSOC's agreements with its contractors, all information related to the relevant operations is to be treated as Confidential Information.



Geoffrey Albers
Managing Director
September 2004



Logistical Notes:

Shorebase:

Wharf 27, Melbourne.

Crew changes:

Personnel to report to –

Bristow Helicopters
Hangar 3, Wirraway Ave.
Essendon Airport, Victoria 3041

Any problems call:

Alex Edwards - Senior Logistics and Shorebase Supervisor on 0429 692 252

APPENDIX 15

RIG POSITIONING QA REPORT (By RPS Hydrosearch)

**SUPERVISERS REPORT
FOR
OCEAN PATRIOT RIG MOVE
TO
MOBY- 1
BY
FUGRO SURVEY Pty Ltd
FOR
LABRADOR PETRO MANAGEMENT**

3rd to 7th October 2004

RPS Hydrosearch,
Level 1, 40 Kings Park Road
West Perth, WA 6005, Australia

PO Box 528, West Perth
WA 6872, Australia

**Report No. : RPSH 04/045/50
Author : A. Sellers
Date : 8/10/2004**

Tel : +61 (8) 9226 0400
Fax : +61 (8) 9226 0511
E-mail : rpsh@rpsplc.com.au
Web : www.rpsplc.com.au

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TABLES

TABLE 1	Comparison of Navigation Systems
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1. SUMMARY INFORMATION

1.1. SPECIFICATIONS

Client: Labrador Petro Management
Project Type: Rig Move
Well Location: Moby -1
Permit: Vic/P47
Location: Bass Strait, Victoria
Type of Survey: Rig Positioning Services
Survey Contractor: Fugro Survey Pty Ltd
Rig: OCEAN PATRIOT (Semi-submersible)
Anchor Handlers Pacific Wrangler, Far Grip
Period of services: 3rd to 7th October 2004
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+10)

1.2. SUMMARY RESULTS

Surveyors were mobilised to the OCEAN PATRIOT on 3rd October off Victoria's east coast while the rig was under tow to the well site Moby-1. Survey equipment was operational within 1.5 hours of arrival.

The first anchor was deployed at Moby-1 at 0245 hours on the 5th October.

Anchoring operations continued until 1115 hours on the 7th October 2004. The final fix was completed at 1230 hours on the 7th October 2004 after pre-tensioning was completed, and equipment shut down.

The rig was positioned 2.4m, 327° from planned.

All survey operations were carried out safely.

2. INTRODUCTION

2.1. RESULTS

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

2.2. FINAL POSITION

The following final surface position was calculated from DGPS observations onboard the rig between 1115 and 1230 hours on the 7th October 2004, before the well was spudded.

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

Datum: AGD66
Latitude: 38° 01' 44.25" South
Longitude: 148° 30' 27.40" East

Projection: AGD66 CM = 147° East
Easting: 632 316.41 mE
Northing: 5 789 884.86 mN
Rig Heading: 270.3° (True)

The final drill stem position was 2.4 m at 327° (Grid) from the planned location, and was within the positioning tolerance (20 metre radius from proposed).

Assumed depth at location (from project procedures) was 52m.

3. GEODETIC PARAMETERS

3.1. LOCAL SPHEROID

The local datum was used as the reference datum for all navigation and positioning on this project:

Datum:	Australian Datum Australian 1966
Spheroid:	ANS
Inverse Flattening:	298.25
Semi-major Axis:	6,378,160.00

3.2. WGS84 SPHEROID

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

Datum:	World Geodetic System 1984
Spheroid:	WGS 84
Inverse Flattening (1/f):	298.257 223 563
Semi-major Axis:	6,378,137.0m

3.3. PROJECTION PARAMETERS

The following projection was used for grid coordinates:

Projection:	Map Grid of Australia
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

3.4. DATUM TRANSFORMATION PARAMETERS

The following transformation was applied DGPS WGS84 position to compute AGD66 coordinates.

$$\begin{aligned}DX &= 123.314m \\DY &= 47.223m\end{aligned}$$

DZ = -136.594m
rx = 0.264"
ry = 0.322"
rz = 0.270"
Scale = 1.3840 ppm

3.5. VERTICAL DATUM AND TIDAL LEVELS

The tidal datum adopted for this location was MSL. No tide or current predictions provided.

EQUIPMENT

3.6. RIG POSITIONING & NAVIGATION SYSTEM

3.6.1. 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 HP satellite differential system, and MRDGPS using the APSat Inmarsat based receive-only communications system was used as the secondary system. Starfix HP uses the Optus satellite to broadcast differential correction signals, which are received via either an AD320 or Optus whip static antenna.

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, Bathurst and Cobar.

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. Under normal operations the right hand screen is used as the graphics display; this right-hand side screen was also split to enable the barge master the use of a remote display.

3.6.2. System Calibration

Check measurements of the antenna offsets from the centre of the moonpool were conducted (see Appendix 3) and the results confirmed the offsets previously adopted offsets.

Navigation data was logged to compare Primary and Secondary Nav systems, the difference being:

	Difference (m)
Easting	-2.06
Northing	0.26

Table 1 – Comparison of DGPS Navigation Systems

3.7. GYRO COMPASS

3.7.1. System Description

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

3.7.2. Gyro Calibration

The gyro was calibrated by sun observation whilst on route to location. Results were consistent, although affected by the heavy seas of the area. A C-O of +1.048 was derived and entered to the system. This is within 0.58° of the last calibration.

4. SUMMARY OF OPERATIONS

4.1. SURVEY OPERATIONS

The Fugro Surveyors were mobilized to the rig on the morning of 3rd October by light aircraft from Melbourne and then via a Helicopter from Malacoota. The Labrador Petro Management Survey QC Representative mobilized to the rig on via the same route PM the same day.

Safety inductions, equipment checks and review of the rig move procedures were completed soon after joining the Ocean Patriot.

The rig was undertow from its previous location in New Zealand. The tow vessels were the M.V. Pacific Wrangler and the M.V. Far Grip.

Run in to location commenced at 0200 hours on the 5th October. The first anchor, #5, was deployed on the seabed at 0245 hours on the 5th October.

The rig manoeuvred over Moby-1 location and continued to run anchors. During pre tensioning of the primary anchors, it was discovered that communication systems were blanked out by the rigs derrick. It was decided to alter the rig heading to 270°, this meant recovering and re-running the primary anchors (anchors no.'s 1, 4, 5 and 8). This repositioning commenced at 1513 hours on the 5th October. At 2050 hours on the 5th October operations were suspended until 0600 hours on 6th October due to weather. After all anchors were run pre-tensioning commenced at 21 hours on the 6th October. Several reruns were necessary and time was also lost due to an anchor winch electrical problem.

The rig was winched on to location at 1115 hrs on 7th October after all anchor operations were complete and the rig ballasted down. A final fix was then observed following all the prerequisite QC checks.

The Labrador Petro Management Survey QC Representatives and the Fugro Survey Team were demobilized to Melbourne on the 7th October 2004.

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.

4.2. KEY PERSONNEL

The following survey personnel were involved with the project:

Name	On Hire	Title
Alan Sellers	03- 07 October 2004	RPS QC Surveyor
Razak Risah	02 – 07 October 2004	Fugro Surveyor
Steve Bradley	02 –07 October 2004	Fugro Engineer

4.3. QC SUPERVISION

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

- Intended Moby 1 location check

- Checks and issue of co-ordinates (including structures and existing wellheads if applicable)
- 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 LABRADOR PETRO MANAGEMENT Company Man

5. PERFORMANCE APPRAISAL

5.1. SURVEY CONTRACTOR PERFORMANCE

The Fugro personnel performed well, both are experienced and competent. All operations were carried out safely and met the Labrador Petro Management safety requirements.

5.2. GYRO COMPASS

The SG Brown gyro performed without fault.

5.3. 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.

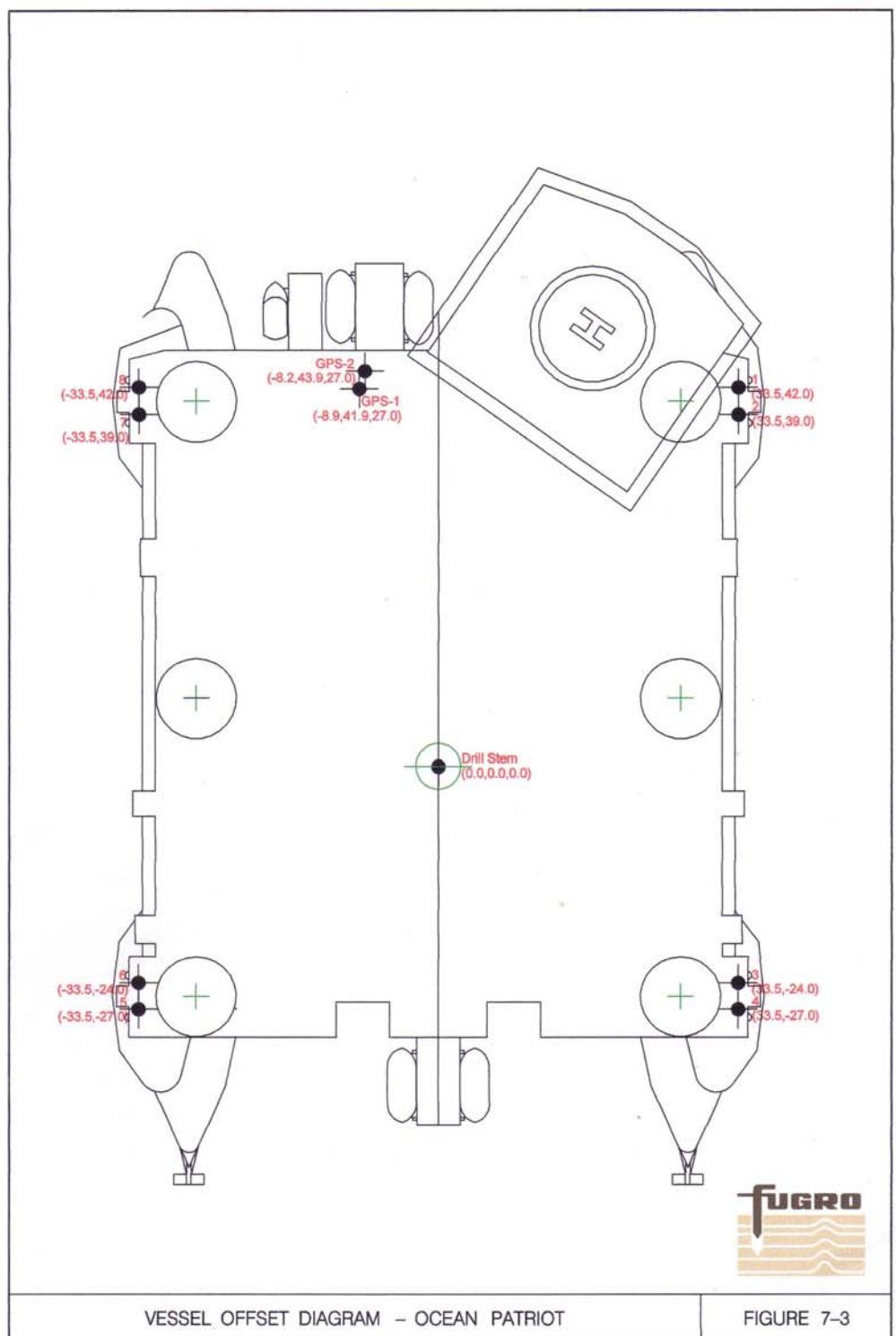
Some interference with the AHT data modems was encountered. The source of this interference was traced to a nearby AHT, (also fitted with the Fugro equipment). This interference was eliminated once the offending AHT's equipment was shut down.

6. CONCLUSIONS AND RECOMMENDATIONS

The Fugro personnel and equipment performed well. No backup gyro is held; however heading data can be computed using the position data from two GPS antenna if required.

APPENDICES

**APPENDIX 1
Rig Offset Diagram**



APPENDIX 2

Diary of Events

03 Oct. 2004

09:15 Fugro crew depart Melbourne for Patriot
11:20 Fugro crew onboard Patriot
12:30 QC Rep departs Melbourne
14:30 QC Rep onboard Patriot
15:00 Inductions
16:45 Check offset measurements
19:00 Pre rig position meeting
20:00 Rig recovering broken tow wire
24:00 En route Moby 1

04 Oct 2004

00:00 Continue tow
14:00 Log data for nav. 1 nav. 2 comparison
16:00 Sun Observations for gyro calibration
22:10 N0 5 PCC to Far Grip

05 Oct 04

00:00 Under tow to Moby 1
02:15 Far grip over No 5 anchor location rig paying out chain
02:45 #5 on bottom, Rig over location
04:35 #1 on bottom
06:15 #4 PCC to Far Grip
08:25 #8 on bottom
22:57 Pacific Wrangler releases tow bridle
15:00 Decision to change rig heading to 270
15:13 # 7 on bottom
17:34 # 8 on bottom (re run)
20:50 Weather halts operations

06 Oct 04

06:00 Restart anchoring operations
09:55 #1 on bottom (re-run)
10:48 #3 on bottom
12:45 #4 on bottom
14:40 #6 on bottom
16:00 Recover #6 (slipping)
17:20 #6 on bottom (re run)
20:00 #5 on bottom (rerun from heading change)
21:00 Start pre tension
22:35 #8 on bottom (rerun slipping)
23:50 #8 on bottom (rerun slipping)

07 Oct 04

02:51 #8 on bottom (rerun slipping)
11:15 Rig at drilling draft, all anchors at working tension
11:30 Logging data for final fix
13:30 Rig move complete
15:00 Depart Rig
16:30 Arrive Melbourne

APPENDIX 3

Configuration

PC2004_277.PRN

10/3/2004

03/10/2004 08:17:00 UTC
 *** FUGRO SURVEY STARFIX.SEIS ***

Header : Project Name : Ocean Patriot
 Project Number : P0137
 Project Description : Rig Move to Moby-1
 Project Location : Moby-1, Vic/P47, Bass Strait
 Client : Bass Strait Oil Company (BSOC)
 Client Representative : Alan Sellars
 Client Reference Number :
 Geophysical Contractor : Fugro
 Positioning Contractor : Fugro
 Positioning Processing Contractor : Fugro
 Setup By : Fugro
 On : 03/10/2004 08:17:00 UTC
 Time Source : 9 GPS Raw Data Trimble
 Time Offset : 12:00 (Using UTC)
 Vessel : Ocean Patriot

Files Runline : (None)
 Centreline : (None)
 Database : C:\Fugro_Projects\P0137\Seis_files\database\agd66_cm147_pipes.sdb
 CAD : (None)
 Waypoint : C:\Fugro_Projects\P0137\Seis_files\waypoint\P0137.swy

Logging: Directory : C:\Fugro_Projects\\P0137\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. : 1
 Fix Increment : 1
 Start FFID : 1
 Start Man. Fix: 5
 Early Start : 20s
 Logging Start : 5s

Datum 1: Datum : AGD66 (Bass Strait-Racal)
 Spheroid : Australian National
 SemiMajor Axis: 6378160.000
 1/Flattening : 298.250000000
 Eccentricity^2: 0.006694541854588

Projection : Universal Transverse Mercator
 Grid Name :
 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

PC2004_277.PRN

10/3/2004

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

 Datum2>1:Parameters : From WGS84 to AGD66 (Bass Strait-Racal)
 DX : 123.3140m RX : 0.2640"
 DY : 47.2230m RY : 0.3220"
 DZ : -136.5940m RZ : 0.2700"
 D Scale : 1.3840ppm Rot Convention: +RZ=-RLatitude

 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

 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

 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 : 1.04 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

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8 -33.50 42.00 0.00

Secondary Vessel 1 : WRANGLER
 : C:\PROGRAM
 FILESLFUGRO\6.1\SHARED\DATA\VESSEL_SHAPES\WRANGLER.SVS

Nav. 1 : System : WRANGLER (In Use)
 Type Lat - Long
 Priority 1
 Time-out 0.0s
 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

Secondary Vessel 2 : FAR GRIP
 : C:\PROGRAM
 FILESLFUGRO\6.1\SHARED\DATA\VESSEL_SHAPES\FAR GRIP.SVS

Nav. 1 : System : FAR GRIP (In Use)
 Type Lat - Long
 Priority 1
 Time-out 0.0s
 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 0.0s
 Offset Name CRP
 X Offset 0.00m
 Y Offset 0.00m
 Z Offset 0.00m
 Correction 0.00 Degrees

O/Ts : Steered Point: O/T 1
 Shot O/T 0

O/T 0	PR CRP	Flt:	Pos Sys: Datum In-Use
O/T 1	PR Drill Stem	Flt:	Fxd Off: Drill Stem
O/T 2	PR GPS 1	Flt:	Fxd Off: GPS_1
O/T 3	PR 5 fairlead	Flt:	Frlead : 5
O/T 4	WRANGLER	Flt:	Pos Sys: Datum In-Use
O/T 5	FAR GRIP	Flt:	Pos Sys: Datum In-Use

O/T Legend: PR=Print LG=Log SN=Snap to line

Printing:
 Fix mark rate : 1

PC2004_277.PRN

10/3/2004

Weather Device : (None)
Weather Interval: 60 minutes
Weather Enabled : No
Config Changes : No
System Timeouts : No
Concise Header : No

Software:Starfix Suite 6.1
HF: WOMBAT HF1
Seis Ver 2.08.0018
SeisEngine Ver 2.08.0011
Display Ver 2.14.0006
Anchors Ver 3.02.0028
Print Ver 2.03.0005

Alarm: Vessel 1, Nav: Change system in use: 2

Alarm: Vessel 1, Nav: Change system in use: 1

APPENDIX 4

Moby 1 Final Fix

RIG POSITION FIELD REPORT
Moby-1



Client : Bass Strait Oil Co. Job Number : P0137
 Rig : MODU OCEAN PATRIOT Date: 7-Oct-04
 Project : Rig move to Moby-1 location, Permit Vic/P47, Bass Strait
 Attention : C. Wilson Drilling Supervisor - Bass Strait Oil Company

The surface location of the drill stem on the Ocean Patriot was derived from 60 minutes of observations of the Primary Differential GPS data, between 1130 hrs and 1230 hrs on completion of all anchor pre-tensioning.

The results of the observations are as follows:

Geographical Coordinates		Grid Coordinates	
Latitude	38 ° 01 ' 44.25 " South	Easting	632316.41
Longitude	148 ° 30 ' 27.40 " East	Northing	5789884.86

The drill stem position is 2.4 m at a bearing of 327.2 ° Grid from the design location.

The Client supplied design location for Moby-1:

Geographical Coordinates		Grid Coordinates	
Latitude	38 ° 1 ' 44.31 " South	Easting	632317.70
Longitude	148 ° 30 ' 27.46 " East	Northing	5789882.87

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

270.28 ° True 271.21 ° Grid

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

Datum :	AGD 66	Projection :	AMG
Spheroid :	ANS	Zone (Central Meridian)	55 147 ° East

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

Anchor	Easting	Northing	Azimuth(°)
1	631433	5790491	303.0 °
2	631864	5790845	334.5 °
3	632884	5790787	31.1 °
4	633222	5790363	63.2 °
5	633205	5789349	119.3 °
6	632842	5788985	149.0 °
7	631764	5789009	210.5 °
8	631163	5789404	247.2 °

Party Chief/Surveyor:

DOC: FSHY48-3
REV: 2

Survey Representative:

A. Sellers
PAGE 1 OF 1
DATE: 27/4/01©

APPENDIX 5
- DGPS Check
- Geodesy & Coordinate Check
- Gyro Calibration

**RIG POSITIONING
GEODESY AND COORDINATE CHECK LIST**


Client : Bass Strait Oil Co. Job Number : P0137
 Rig : MODU OCEAN PATRIOT Date: 06/October/2004

Project : Rig move to Moby-1 location, Permit Vic/P47, Bass Strait

1. CONFIRMATION OF PROPOSED RIG COORDINATES and HEADING.

Well Name	Moby-1	Ensure agreement with Client onsite prior to any positioning
Well Location – Latitude	38 1 44.3111 S	Operations. OK (?) <input checked="" type="checkbox"/> N.
Well Location – Longitude	148 30 27.4563 E	
Rig Heading (True)	270 ° T	

2. GEODETIC PARAMETERS (WGS84 to LOCAL DATUM)

DATUM:	Dx	123.314	Ensure agreement with Client onsite prior to positioning Operations.
(WGS84 to	Dy	47.223	OK (?) <input checked="" type="checkbox"/> N.
Local Datum)	Dz	-136.594	
	Rx	0.2640	
Projection:	Ry	0.3220	
	Rz	0.2700	
	Ds	1.3840 ppm	
UTM Zone		55	
Central Meridian		147 ° East	

3. CHECK TRANSFORMATION OF SITE COORDINATES.

Well Location – Easting	632317.7	Ensure agreement with PCNav / Starfix.Seis. OK(?) <input checked="" type="checkbox"/> N
Well Location – Northing	5789882.9	If not, CHECK and RECALC.
Convergence at Location	0.93	
Rig Heading (° Grid)	270.93	

4. MEAS. ANT. OFFSETS from ANT. TO D/STEM (Rel. to Datum) NAV #1 SYSTEM NAV #2 SYSTEM

(Measure two (2) separate directions, verifying closure.)

Delta X(m)		-8.9	-8.2
Delta Y(m)		41.9	43.9
Angle between Rig Centreline and Antenna(s) (Grid)		348.008	349.4
Distance between Drill Stem and Antenna(s)		42.83	44.66

5. MANUAL COORDINATE VERIFICATION FOR ANTENNAS NAV #1 SYSTEM NAV #2 SYSTEM

Proposed Drill Stem Position	Easting	632317.7	632317.7
	Northing	5789882.9	5789882.9
Drill Stem to Antenna	Proposed Hdg (G)	270.93	270.93
Brg (G) = Prop. Hdg. + Angle btwn centreline and antenna		618.94	260.35
	Distance (m)	42.83	44.66
Calculated Antenna Coordinates (Local)	Easting	632275.66	632273.67
	Northing	5789874.65	5789875.38
	Latitude	38 1 44.5998 S	38 1 44.5771 S
	Longitude	148 30 25.7379 E	148 30 25.6559 E

Calculated Proposed Antenna Coords (WGS 84)	Latitude	38 1 39.071 S	38 1 39.0484 S
	Longitude	148 30 30.2561 E	148 30 30.1740 E

Surveyor : R. Risah Client Rep A. Sellers Date : 5-oct-2004
 R. Risah A. Sellers

6. POST RIG MOVE – OBSERVED ANTENNA COORD NAV.SYS #1 NAV.SYS #2

Observed WGS84 Antenna Positions	Latitude	38 1 39.05 "S	38° 1' 38.98 "S
	Longitude	148° 30' 30.23 "E	148° 30' 30.16 "E

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

Surveyor : R. Risah Client Rep A. Sellers Date : 7-oct-2004
 R. Risah A. Sellers

GYRO COMPASS CALIBRATION - CALCULATION SUMMARY



Client : Bass Strait Oil Co. Job Number : P0137
 Rig : MODU OCEAN PATRIOT Date : 4-Oct-04
 Project : Rig move to Moby-1 location, Permit Vic/P47, Bass Strait

		Deg	Min	Sec	
		349	56	26	Correction Angle (RO to Lubberline)

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
			Deg	Min	Sec	Deg	Min	Sec	Deg	Min	Sec				
1	4-Oct-04	6:29:40	-38	3	4	148	56	10	279	32	19	279.539	13	24	28
2	4-Oct-04	6:30:44	-38	3	4	148	56	10	279	21	43	279.362	13	22	0
3	4-Oct-04	6:31:30	-38	3	4	148	56	10	279	14	7	279.235	13	1	47
4	4-Oct-04	6:34:57	-38	3	4	148	56	10	278	40	4	278.668	13	56	25
5	4-Oct-04	6:38:03	-38	3	4	148	56	10	278	9	38	278.161	13	28	12
6	4-Oct-04	6:39:17	-38	3	4	148	56	10	277	57	34	277.960	13	56	31
7	4-Oct-04	6:39:53	-38	3	4	148	56	10	277	51	43	277.862	13	46	50
8	4-Oct-04	6:40:33	-38	3	4	148	56	10	277	45	13	277.754	12	10	1
9	4-Oct-04	6:41:49	-38	3	4	148	56	10	277	32	53	277.548	11	49	45
10	4-Oct-04	6:42:59	-38	3	4	148	56	10	277	21	33	277.359	14	9	27

Required Starfix.Seis Gyro Correction =	Mean	Std. Deviation	1.04
	Maximum	Minimum	1.02
			2.65
			-0.67
			3.32

Surveyor :
 R. Risah
 Client Rep :
 A. Sellers

NOTE: Gyro correction of +0.00°
 Entered During calibration
 Hence new correction 1.04

RIG POSITIONING
DGPS CHECK LIST (PRE RIG MOVE)



Client : Bass Strait Oil Co.
Rig : MODU OCEAN PATRIOT
Project : Rig move to Moby-1 location, Permit Vic/P47, Bass Strait

Job Number : P0137
Date: 04-Oct-04

1) NAVIGATION SYSTEMS COMPARISON CHECK

The antennae position data of primary and secondary systems were observed for 10 minutes from 13:48 hrs to 13:58 hrs on 04 October 2004 to compare the difference between Primary and Secondary Navigation Systems.

	Easting	Northing
Primary Navigation	684836.17	5787191.62
Secondary Navigation	684838.23	5787191.36
Differences	-2.06	0.26

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

Party Chief/Surveyor:

R. Risah

Client Representative :

A. Sellers

APPENDIX 6
Client Position Notification



BASS STRAIT OIL COMPANY Ltd
ACN 008 694 817

Level 25
500 Collins Street
Melbourne Victoria 3000 Australia

Tel: (+61 3) 9614 0426
Fax: (+61 3) 9629 6278
Email: admin@bassoil.com.au
Website: www.bassoil.com.au

Simon Hartland
Operations Manager
RPS Hydrosearch
Level 1, 40 Kings Park Road
West Perth
WA 6005

By courier 08-92260400

Monday, 23 August 2004

Simon,

Subject – Confirmation of location of Moby-1 from seismic coordinate location

As per our telephone conversation and your email today please find attached the following for the Moby-1 drilling coordinate location QC by RPS Hydrosearch:

Appendix A – PWLDS sheet
Guardian Data Baleen 3D bin centres P190 Exabyte tape
Copy of contents of Exabyte to CDROM as single ascii file

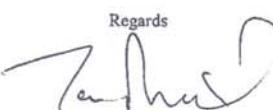
Please return the Exabyte to us with final report.

The coordinates of the surface and TD locations of the vertical well from seismic are:

Inline 601 and Xline or CDP 4403 on the Baleen 3D of 2000 (P190 bin centres attached).
Based on a projection of UTM Zone 55, datum of Australian Geodetic 1966, Australia and Tasmania Islands,
and an ellipsoid of Australian National spheroid we estimate the following as the coordinates:

Latitude: 38 deg 01' 44.31"✓
Longitude: 148 deg 30' 27.46"✓
Northing: 5789882.87N ✓
Easting: 632317.70E ✓

If you require clarification please contact me on 0417391789 or at the office,

Regards

Ian Reid
General Manager, Exploration

APPENDIX 16

CASING AND CEMENTING REPORTS (By Bass Strait Oil Company Ltd)

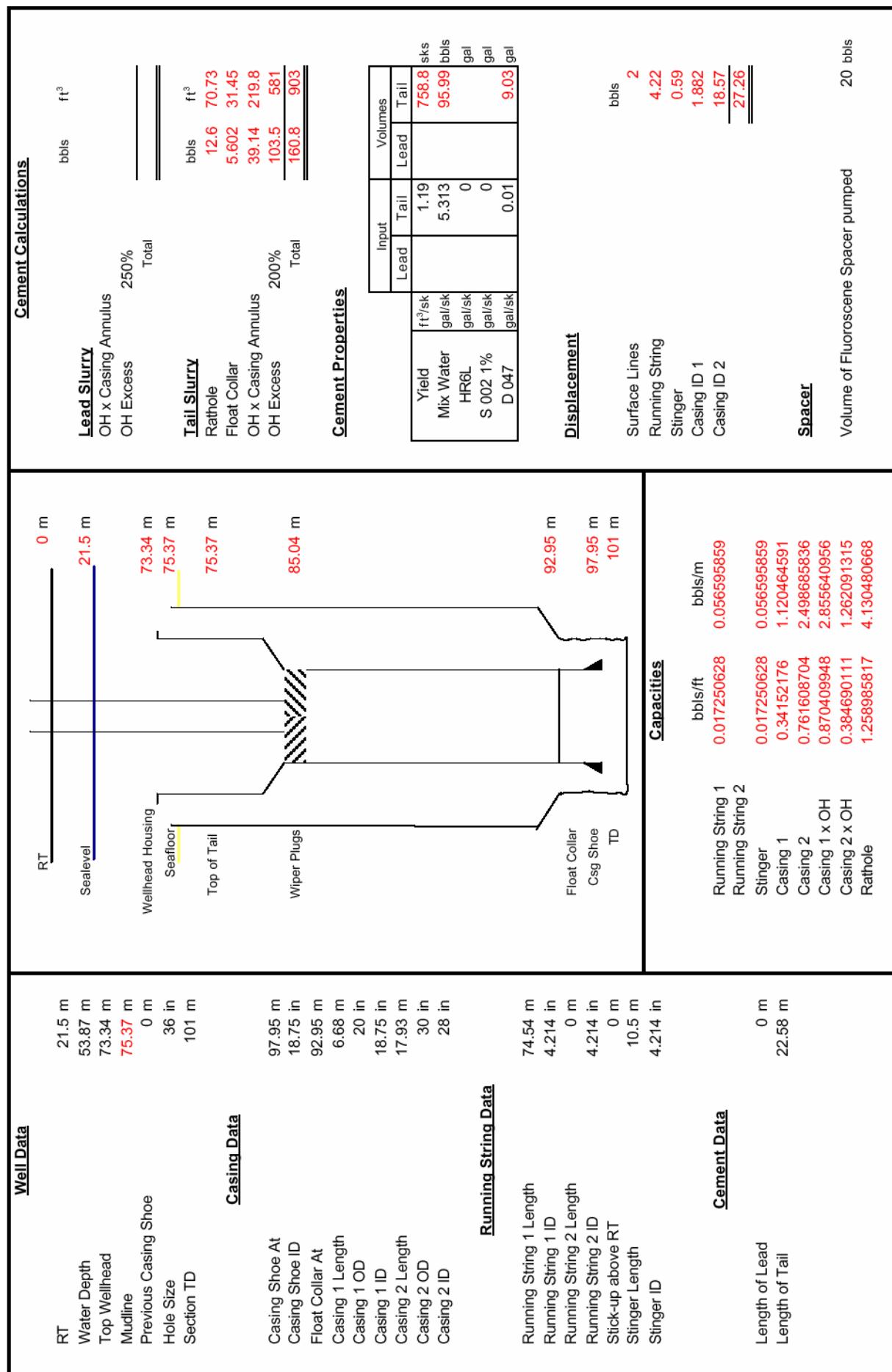
30" Conductor

Casing Control Information

Well Name	Moby-1	
Permit	VIC/P47	
Rig Name	Ocean Patriot	
Casing Size (in)	30	20
Casing Weight (ppf)	310	133
Casing Grade	X52	X56
Casing Burst (psi)	N/A	-
Casing collapse (psi)	1581	-
Tensile yield (lbs)	4738000	-
Hole Size (in)	36	
Hole TD (m)	101	
Hole TVD (m)	101	
Date	06/10/04	
RT to MLS (m)	73.34	
RT to Sea Bed (m)	75.37	
RT to wellhead	73.34	

Use MLS Y/N	Y
Supervisors	C. Wilson J. Wrenn

<u>Bass Strait Oil Company</u> <u>CASING RECORD</u>							
Well Name:	Moby-1	RIG:	Ocean Patriot	PERMIT:	VIC/P47	DATE:	06-Oct-04
HOLE SIZE (mm):	914	CASING (mm):	762	RT-s'bed (m):	75.37		
TD (m):	101	Shoe @ (m):	97.96	RT-MLS(m):	73.34		
TVD (m)	101			WellHead (m):	73.34		
JTS	SIZE mm	Weight Kg/m	Grade	Conn	Burst (kpa)	Collapse (kpa)	Tensile Yield (t)
2 (wellhead)	762	461	X-52	SA-2	-	10893	2149728
2 (shoe)	508	198	X-56	SA-2	-	-	-
MILL CERTIFICATE Nos./PO's							
DESCRIPTION				Length (m)	Bottom (mRT)	Top (mRT)	
Shoe Joint				11.47	97.96	86.49	
Wellhead Joint				13.15	86.49	73.34	
Hang-off Point				0.00	73.34	73.34	
Above Running Tool				0.69	73.34	72.65	
Running String				72.65	72.65	0.00	



13 3/8" Casing

Casing Control Information

Well Name	Moby-1
Permit	VIC P/47
Rig Name	Ocean Patriot
Casing Size (in)	13.365
Casing Weight (ppf)	68 68
Casing Grade	N80 K55
Casing Burst (psi)	5017 3451
Casing collapse (psi)	2262 1943
Tensile yield (lbs)	1557000 1071000
Hole Size (in)	17.5
Hole TD (m)	325
Hole TVD (m)	325
Date	08/10/04
RT to MLS (m)	73.34
RT to Sea Bed (m)	75.37
RT to wellhead	73.34

Use MLS Y/N	Y
Supervisors	C. Wilson J. Wrenn

Initial Tally

1	Joint 1	12.05	12.05	BTC
2	Joint 2	11.90	23.95	BTC
3	Joint 3	11.44	35.39	BTC
4	Joint 4	11.93	47.32	BTC
5	Joint 5	11.90	59.22	BTC
6	Joint 6	11.71	70.93	BTC
7	Joint 7	11.89	82.82	BTC
8	Joint 8	11.90	94.72	BTC
9	Joint 9	11.82	106.54	BTC
10	Joint 10	11.78	118.32	BTC
11	Joint 11 - K55	12.01	130.33	BTC
12	Joint 12 - K55	11.96	142.29	BTC
13	Joint 13 - K55	11.87	154.16	BTC
14	Joint 14 - K55	12.06	166.22	BTC
15	Joint 15 - K55	11.91	178.13	BTC
16	Joint 16 - K55	12.00	190.13	BTC
17	Joint 17 - K55	11.85	201.98	BTC
18	Joint 18 - K55	12.05	214.03	BTC
19	Joint 19 - K55	12.06	226.09	BTC
20	Joint 20 - K55	11.87	237.96	BTC
21	Joint 21 - K55	12.06	250.02	BTC
22	Joint 22 - K55	12.06	262.08	BTC
23	Joint 23 - K55	11.83	273.91	BTC
24	Joint 24 - K55	12.06	285.97	BTC
25	Joint 25 - K55	12.07	298.04	BTC
26	Joint 26 - K55	12.06	310.10	BTC
27	Joint 27 - K55	12.00	322.10	BTC
28	Joint 28 - K55	11.60	333.70	BTC
29	Joint 29 - K55	11.28	344.98	BTC
30	Joint 30 - K55	11.98	356.96	BTC

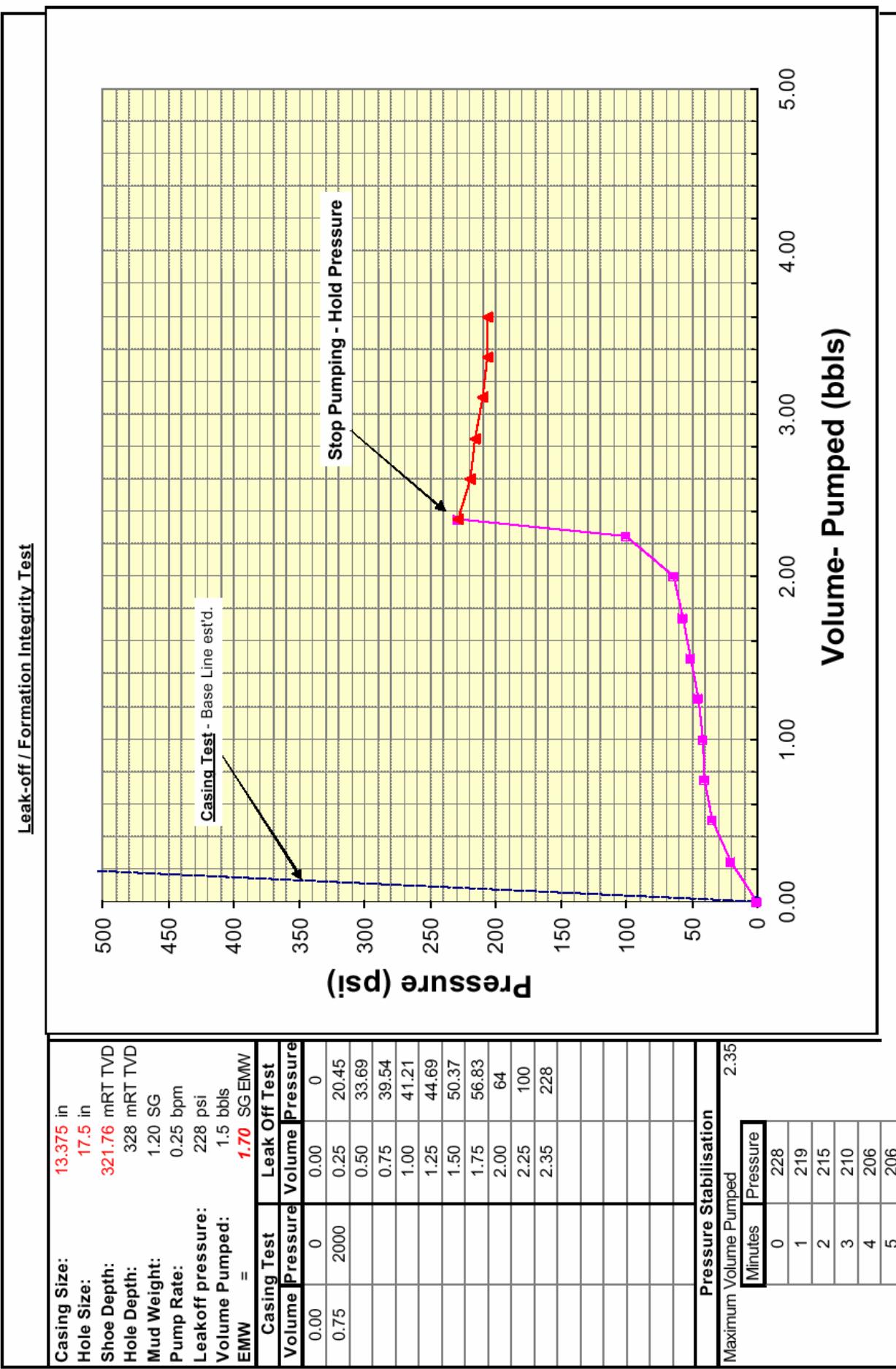
Bass Strait Oil Company							
WELL	Moby-1	PERMIT	VIC P/47	DATE	08/10/04	Grade	K55
Casing (mm)	339	Weight (kg/m)	101.2 & 101.2	Stick Up	0.01		
Shoe @ (m)	321.57	Jnts on Rig	30				
Joint	Length	Total	Comment	Joint	Length	Total	Comment
Shoe Joint (A)	12.22	12.22					
Inter Joint (A)	12.06	24.28					
Float collar joint (A)	11.77	36.05					
Joint 30 - K55	11.98	48.03					
Joint 29 - K55	11.28	59.31					
Joint 28 - K55	11.60	70.91					
Joint 27 - K55	12.00	82.91					
Joint 26 - K55	12.06	94.97		Total Joints on the rig = 30			
Joint 25 - K55	12.07	107.04		Joints to be left on the rig = 13			
Joint 24 - K55	12.06	119.10					
Joint 23 - K55	11.83	130.93					
Joint 22 - K55	12.06	142.99					
Joint 20 - K55	11.87	154.86					
Joint 19 - K55	12.06	166.92					
Joint 18 - K55	12.05	178.97					
Joint 17 - K55	11.85	190.82					
Joint 16 - K55	12.00	202.82					
Joint 15 - K55	11.91	214.73					
Joint 14 - K55	12.06	226.79					
Joint 13 - K55	11.87	238.66					
18 3/4" Joint Below	9.57	248.23					
Hang off point	0.00	248.23					
18 3/4" Joint Above	0.89	249.12					
Running Tool	0.74	249.86					
Drillpipe	71.72	321.58					

<u>Bass Strait Oil Company</u>							
CASING RECORD							
Well Name:	Moby-1	RIG:	Ocean Patriot	PERMIT:	VIC P/47	DATE:	08-Oct-04
HOLE SIZE (mm):	445	CASING (mm):	339	RT-s'bed (m):	75.37		
TD (m):	325	Shoe @ (m):	321.57	RT-MLS(m):	73.34		
TVD (m)	325			WellHead (m):	73.34		
JTS	SIZE mm	Weight Kg/m	Grade	Conn	Burst (kpa)	Collapse (kpa)	Tensile Yield (t)
20	339	101.2	K55	Butt	34567	15585	706443

MILL CERTIFICATE Nos./PO's

DESCRIPTION	Length (m)	Bottom (mRT)	Top (mRT)
Shoe Joint (A)	12.22	321.57	309.35
Inter Joint (A)	12.06	309.35	297.29
Float collar joint (A)	11.77	297.29	285.52
17 x joints - K 55	202.61	285.52	82.91
18 3/4" wellhead joint	10.46	82.91	72.45
RT to wellhead	72.45	72.45	0.00

<u>Well Data</u>		<u>Cement Calculations</u>	
RT	21.5 m		
Water Depth	53.87 m		
Top Wellhead	72.45 m		
Mudline	75.37 m		
Previous Casing Shoe	98 m		
Hole Size	17.5 in		
Section TD	325 m		
<u>Casing Data</u>		<u>Lead Slurry</u>	
Casing Shoe At	321.76 m	OH x Casing Annulus	67.0 ft ³
Casing Shoe ID	12.5 in	OH Excess	30.231 ft ³
Float Collar At	297.48 m	75% Total	140 ft ³
Casing 1 Length	241 m		
Casing 1 OD	13.375 in		
Casing 1 ID	12.5 in		
Casing 2 Length	10.46 m		
Casing 2 OD	18.75 in		
Casing 2 ID	17.5 in		
<u>Running String Data</u>		<u>Tail Slurry</u>	
Running String 1 Length	72.46 m	Rathole	3.1624 ft ³
Running String 1 ID	4.214 in	Float Collar	12.091 ft ³
Running String 2 Length	0 m	OH x Casing Annulus	30.443 ft ³
Running String 2 ID	4.214 in	OH Excess	25.204 ft ³
Stick-up above RT	0 m	75% Total	70.901 ft ³
Stinger Length	10.46 m		
Stinger ID	4.214 in		
<u>Cement Data</u>		<u>Cement Properties</u>	
Length of Lead	165 m	Yield	2.23 ft ³ /sk
Length of Tail	75 m	Mix Water	12.72 gal/sk
		S001 CaCl ₂	0 gal/sk
		D075	0.42 gal/sk
		D047	0.01 gal/sk
<u>Running String 1</u>		<u>Volumes</u>	
Running String 1 ID	4.214 in	Input	Volumes
Running String 2 Length	0 m	Lead	Tail
Running String 2 ID	0 m	2.23	1.19
Stick-up above RT	0 m	12.72	5.31
Stinger Length	10.46 m	0	0
Stinger ID	4.214 in	0.42	0
		0.01	0.01
		6.5806	3.98 gal
<u>Displacement</u>		<u>Surface Lines</u>	
Running String 1	297.48 m	Yield	2.23 ft ³ /sk
Running String 2	321.76 m	Mix Water	12.72 gal/sk
	325 m	S001 CaCl ₂	0 gal/sk
		D075	0.42 gal/sk
		D047	0.01 gal/sk
<u>Spacer</u>		<u>Volume of Spacer to be pumped</u>	
			10 bbls



APPENDIX 17

DRILLING FLUIDS REPORT

(By MI Swaco)

Fluids Recap

Bass Strait Oil Co

Moby-1
Gippsland Basin
Exploration
VIC/P47



Prepared by: Nigel Warman



M-I L.L.C.

ONE-TRAX

DRILLING FLUID DATA MANAGEMENT SYSTEM

Operator: Bass Strait Oil Co

Spud Date: 7/10/2004

Well Name: Moby-1

TD Date: 11/10/2004

Field/Area: Gippsland Basin

Location Code: 7001

Description: Exploration

Project Engineer: Nigel Warman

Location: VIC/P47

Sales Engineer: Jasdeep Singh

Warehouse: Melbourne

Sales Engineer:

Contractor: Diamond Offshore

M-I Well No. 14554

Comments: Health & Safety hazard due only one mud engineer provided for this job.

Type	Size in	Depth m	TVD m	Hole in	Max MW lb/gal	Fluid 1	Fluid2	Drilling Problem	Days	Cost \$
Casing	30	101	101	36	8.7	Spud Mud		None	4	6377.25
Casing	13.375	325	325	17.5	8.7	Spud Mud		None	1	3854.10
Open Hole	.	328	328	12.25	10	KCL/Polymer		None	5	35847.36

Total Depth: 660 m

TVD: 660 m

Water Depth: 53 m

Drilling Days: 8

Total Cost:

46,078.71

**DRILLING FLUIDS RECAP FOR BASS STRAIT OIL
MOBY 1**

CONTENTS:

- DISCUSSION BY INTERVAL**
- DAILY DISCUSSION REPORT**
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- DRILLING FLUIDS SUMMARY**
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**DRILLING FLUIDS RECAP FOR BASS STRAIT OIL
MOBY 1**

**DISCUSSION
BY
INTERVAL**

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL MOBY 1

SUMMARY:

Bass Strait Oil Company was the operator of vertical exploration well, Moby-1, Vic/P47, Victoria, Australia using Ocean Patriot semi submersible rig owned by Diamond Offshore. Moby-1 was located 25 km south of Orbost, approximately 5 km east of producing Baleena gas field. The well was programmed for 9 days to 600 m below sea depth in 53 m of water depth.

The rig Ocean Patriot towed from New Zealand and arrived on location on the 5th October 2004.

Its primary target was gas within the Gurnard formation which is the producing reservoir in Patricia Baleen. The secondary target was underlying oil leg in the Gurnard or the deeper Latrobe formation.

Moby-1 was spudded on the 7th October 2004. The 36 x 26" hole was drilled to 101m using sea water and Gel sweeps. The 30 x 20 inch conductor casing was run and cemented in place with no troubles.

The 17½" hole was drilled to 325 m and 13⅞" casing was lowered with no troubles.

The casing shoe was drilled out with 12¼" bit and the hole was displaced to 10 ppg KCl/Polymer mud. A FIT of 14.2 ppg MWE was obtained.

The main section of the well was drilled with 8.5 inch bit to 660 m TD in 12 hrs at 20:30 hrs on 11th October 2004.

The well was logged extensively in four runs and plugged and abandoned prior to towing to Martha-1 for Santos.

The total mud chemical cost for the well (including Calcium chloride used in cement jobs) was: \$37,483.81

The total Engineering service cost was: 14 days x \$700 = \$9800

**DRILLING FLUIDS RECAP FOR BASS STRAIT OIL
MOBY 1**

Interval I	53- 101 meters	36" x 26" Hole	30" x 20" casing
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MUD TYPE : Seawater / PHG / Guar Gum sweeps

MUD RELATED HOLE PROBLEMS : None

MUD PROPERTIES:

Mud Weight : 8.65-8.7 ppg
YP : 22-33 lb/100ft²
API FL : 15 cc/30 min
Funnel Vis : > 100 se/qt
Hardness : 80 mg/l
MBT : 25-30 ppb

OPERATIONS:

Moby-1 was spudded on 7th October 2004. The 26" hole with 36" hole opener was drilled to 101m in 2 hours. The 30" casing was lowered and cemented in place.

MUD

460 bbl of 28 ppb Gel in Pit 4 and 460 bbl of 24 ppb gel in Pit 5 was prehydrated in preparation for spudding. No kill mud was prepared. The hole was swept with 50 bbl flocculated mud made with 2:1 gel from Pit 4 & sea water every 10 m of drilling. At TD a 100 bbl sweep was pumped and hole displaced with 150 bbl of unflocculated mud from Pit 5. A total of 320 bbl of gel was used for this section and 600 bbl left over was carried over for next section.

SOLIDS CONTROL:

None used as returns were directed to seabed.

OBSERVATIONS AND RECOMMENDATIONS:

No changes are proposed.

**DRILLING FLUIDS RECAP FOR BASS STRAIT OIL
MOBY 1**

Interval II	101 – 325	17½" Hole section	13⅝" casing
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MUD TYPE : Seawater / PHG / Guar Gum sweeps

MUD RELATED HOLE PROBLEMS : None

MUD PROPERTIES:

Mud Weight: : 8.65-8.7 ppg
YP: : 22-33 lb/100ft²
API FL: : 11.2-15 cc/30 min
Funnel Vis: : > 100 se/qt
Hardness: : 80 mg/l
MBT: : 25-30 ppb

OPERATIONS:

The 17½" drilling assembly was made up and run in hole. The shoe track was drilled with sea water pumped at 1100 gpm. A 50 bbl Floc gel sweeps was pumped after drilling cement and further drilling was progressed using sea water. A sweep regime of 50 bbl Guar Gum and 50 bbl Floc Gel was followed while drilling to 325m. A 100 bbl Floc gel sweep was pumped at TD and a wiper trip was made to casing shoe. Once back on bottom, the hole was displaced with 350 bbl unflocculated mud and string pulled out for running casing. The casing was run and cemented in place as per program with no troubles.

MUD:

600 bbl of Gel mud from previous section was carried over to this section and additional volume of 375 bbl of 28 ppb Gel was mixed. Also 475 bbl of 4 ppb Guar gum was mixed in sea water in a separate pit. The sweeps were made with 2 parts of 30 ppb Gel and 1 part of sea water in a separate pit. 100 bbl of Floc mud and 50 bbl of Guar gum were left unused after drilling this section. Also 230 bbl of unflocculated mud was left over from this section which was used in next section.

**DRILLING FLUIDS RECAP FOR BASS STRAIT OIL
MOBY 1****SOLIDS CONTROL:**

No solids control was used as returns were to seabed.

OBSERVATIONS AND RECOMMENDATIONS:

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

TOTAL MATERIAL CONSUMPTION FOR 36" and 17½" SECTIONS

Product	Unit Size	Unit Cost	Total	Cost
Bentonite	1mt	\$298.30	13	\$3877.90
Caustic Soda	25kg	\$19.50	6	\$117.00
Guar Gum	25kg	\$45.10	36	\$1,623.60
Lime	25kg	\$7.95	1	\$7.95
Total Riserless Drilling Chemical cost:				\$5626.45

This does not include the Calcium Chloride used for cement mix.

The actual cost exceeded the programmed cost of \$4737 for these sections by 19% can be attributed to extra volume built with Gel and Guar Gum.

**DRILLING FLUIDS RECAP FOR BASS STRAIT OIL
MOBY 1**

Interval I11	325 - 660 meters	8½" Section	P & A
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MUD TYPE : KCl/Polymer

MUD RELATED HOLE PROBLEMS : None

MUD PROPERTIES:

Mud Weight	: 10 ppg
YP	: 20-35
PV	: 34-24
API FL	: 5 cc
KCl	: 6%
PHPA	: 0.5-0.9 ppb
Funnel Vis	: 80-55 sec/qt
Zinc Oxide	: 1.5 ppb
Hardness	: 240 mg/l
Drill Solids	: 1-2.5%
PH	: 9.5
6 RPM	: 8-9

OPERATIONS:

The 13⅞" casing shoe track was drilled out with a 12¼" bit to 328 m and the hole was displaced to 10 ppg KCl/Polymer mud prior to conduct FIT. This bit was pulled out of hole after achieving a FIT of 14.2 ppg MWE and an 8½" bit was lowered in the well. The main section was drilled to a total depth of 660 m with controlled drilling from 525 m to 660 m for effective sampling.

The well was logged and P& A.

MUD:

120 bbl of 25 ppb Gel left from previous section was blended into 625 bbl of new mud prepared in two pits to obtain 745 bbl of mud containing 6% KCl, 0.5 ppb Polyplus, 1.5 ppb Polypac UL, 0.75 ppb Duovis & 4 ppb gel for intial displacement. 320 bbl of KCl/Polymer mud containing 1.2 ppb Polydrill was also store in a separate pit. The surface volume could not be sheared due to non availability of a shearing device on this rig and delay in getting chemicals from boat.

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL MOBY 1

The shoe track was drilled with sea water and two 30 bbl gel sweeps were pumped to clean hole. The hole was displaced to new mud after drilling 3 m of formation below rat hole and system was closed in.

The 8½" drilling started after changing out the BHA with massive losses over shakers due to cold mud & rig inclination causing mud to flow backwards in the shaker pits. Much of the losses occurred from below the shakers screens. A total of 325 bbl was lost on surface while battling to clean up the header box and increased flow after starting booster line.

A 175 bbl of additional volume was mixed to maintain surface volume. The drilling continued with rate of penetrations more than 150m an hour up to 525m and the drilling rate was controlled to 25 m/hr to get representative cutting samples.

The polymer concentration was built up by direct additions to active system to boost PHPA concentrations slowly to 0.7 ppb and then to 0.9 ppb. The KCl concentration was maintained with 2 bags of KCl addition to active system. The mud weight remained fairly constant at 10 ppb using dilution mud of 9.8 ppg.

The cuttings over the shakers were observed to be discrete and well encapsulated with 0.8 ppb PPHPA concentration and 6% KCl levels. The low end rheology was maintained with XC polymer concentration of 1 ppb giving 6 rpm readings on rheometer between 8 and 10. The corresponding Yield Points were in the range of 35-25 lb/100 ft². The filter loss properties were tightened up with Polypac UL additions of 2 ppb and it remained at 5 cc per 30 minutes.

The system was treated with 1.5 ppb Zinc Oxide at 450 m as a scavenger to treat out any sulphides expected to encounter in the reservoir section. The Garret gas train was run with draeger tube to quantitatively analyse the total sulphide levels in the drilling fluid. Fortunately no sulphides were recorded in the mud. The rig was equipped with breathing apparatus and additional sensors for the safety of personnel and onsite H2S safety services of Maersk.

SOLIDS CONTROL:

The shakers were dressed with 105 mesh screens with 20 mesh scalping screens. These handled the flow quite good and keeping solids build up under control after the mud was warmed up and sheared sufficiently. The screens were not upgraded due to short drilling period. The desilter or desander were not run either.

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL MOBY 1

DOWNHOLE LOSSES:

Some downhole losses could be attributed to the limestone formations below the casing shoe but no LCM was pumped due to whole mud losses occurring at shakers during drilling this interval and faster drilling rates.

MATERIAL CONSUMPTION:

Product	Unit Size	Unit Price	Quantity Used	Cost
Caustic Soda	25 kg cn	\$19.50	5	\$97.50
Antifoam A	5 gal cn	\$66.30	7	\$464.10
Duo-Tec	25 kg sx	\$193.11	12	\$2,317.32
Duo-vis	25 kg sx	\$222.71	11	\$2,449.81
M-I Bar Bulk	1 MT	\$283.50	33	\$9,355.50
Polypac UL	25 kg sx	\$93.43	48	\$4,484.64
Polyplus Dry	25 kg sx	\$83.50	21	\$1,753.50
Potassium Chloride	1 MT BB	\$382.50	16	\$6,120.00
Zinc Oxide	25 kg sx	\$48.60	30	\$1,458.00
Total Product Cost for 8.5 inch section drilling				\$28,500.37

The actual cost was 13.7% higher than the programmed cost of \$25053 due to extra volume of mud built required to be built to keep up with losses occurring over shakers.

PERFORMANCE INDICATORS:

Prevoius Volume	:	120Barrels
Volume Built	:	1135Barrels
Volume Lost during drilling	:	441Barrels
Volume Left at end of Drilling:	:	814Barrels
Meters Drilled	:	332meters
Dilution Volume	:	441Barrels
Dilution Rate	:	1.33Barrels per meter
Chemical Cost	:	\$28633US Dollars
Cost per bbl	:	22.81USD per meter
Volume of Hole Drilled	:	76.45Barrels
Dilution Rate	:	5.77Barrels per Barrels of Hole drilled

DRILLING FLUIDS RECAP FOR BASS STRAIT OIL MOBY 1

OBSERVATIONS AND RECOMMENDATIONS:

The planned mud system was adequate to address the formation characteristic encountered during the well. The 6% KCl level and 1 ppb PHPA concentrations were sufficient to control shales drilled. Operationally crane availability was an issue to add KCl bags on hopper to finish premixes in time to maintain volumes and mixing mud well in advance to shear polymers.

POST TD OPERATIONS:

The well was logged for 48 hrs without trouble. The hole seems to be in gauge from the calliper logs. The well was finally plugged and abandoned as per procedures. The cement stringer was run to bottom and hole circulated clean before placing first cement plug from 625m to 505m. The mud in the open hole above this plug was treated with 800 ppm Glute 25 as biocide and 0.2 ppb OS-1 to remove any dissolved oxygen. The second cement plug was placed across last casing shoe after pumping 60 bbl HiVis pill made from 2 ppb Duotec. After WOC this plug was tested for integrity. The cement retainer was set at 160 m and well displaced with seawater treated with 1000 ppm Glute 25. The third cement plug was placed on the cement retainer. The BOP's were unlatched. The rig was release for Martha-1 (Santos) after cutting and retrieving the 30 x 20 inch well head.

Product	Unit Size	Unit Price	Quantity Used	Cost
Caustic Soda	25 kg cn	\$19.50	1	\$19.50
Duo-Tec	25 kg sx	\$193.11	4	\$772.44
Glute 25	25 lt cn	\$68.25	5	\$341.25
OS1	25 kg sx	\$35.40	3	\$106.20
Total Post TD Chemical Cost:				\$1,239.39

OTHER MATERIAL CONSUMPTION:

Product	Unit Size	Unit Price	Quantity Used	Cost
Calcium Chloride (94%)	25 kg sx	\$10.50	31	\$325.50
M-I Bar	25 kg sx	\$6.52	80	\$521.60
Total Other chemical consumption:				\$847.10

**DRILLING FLUIDS RECAP FOR BASS STRAIT OIL
MOBY 1**

TOTAL MATERIAL CONSUMPTION:

Product	Unit Size	Unit Price	Quantity Used	Cost
Calcium Chloride (94%)	25 kg sx	\$10.50	31	\$325.50
Caustic Soda	25 kg cn	\$19.50	12	\$234.00
Antifoam A	5 gal cn	\$66.30	7	\$464.10
Duo-Tec	25 kg sx	\$193.11	16	\$3,089.76
Duo-vis	25 kg sx	\$222.71	11	\$2,449.81
Glute 25	25 lt cn	\$68.25	7	\$477.75
Guar Gum	25 kg sx	\$45.10	36	\$1,623.60
Lime	25 kg sx	\$7.95	1	\$7.95
M-I Bar	25 kg sx	\$6.52	80	\$521.60
M-I Bar Bulk	MT	\$283.50	37	\$10,489.50
M-I Gel Bulk	MT	\$298.30	13	\$3,877.90
OS1	25 kg sx	\$35.40	3	\$106.20
Polypac UL	25 kg sx	\$93.43	48	\$4,484.64
Polyplus Dry	25 kg sx	\$83.50	21	\$1,753.50
Potassium Chloride	1 MT BB	\$382.50	16	\$6,120.00
Zinc Oxide	25 kg sx	\$48.60	30	\$1,458.00
Total Well Cost:				\$37,483.81

**DRILLING FLUIDS RECAP FOR BASS STRAIT OIL
MOBY 1**

**DAILY DISCUSSION
REPORT**



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

Field/Area : Gippsland Basin
Description : Exploration
Location : VIC/P47

Daily Discussion
M-I Well : AU04BAS001

4/10/2004	TD = 0 m	Day -2
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Mud Engineer arrived on rig @ 10:30 Hrs. See inventory sheet for chemicals on board.
Rig under Tow.
Gel on board: 7 MT
Drillwater on board: 3563 bbl

5/10/2004	TD = 0 m	Day -1
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Waiting for ballast down to start mixing gel. Dressed shakers with 105 mesh screens.
Run anchors. Meanwhile made up drill pipe stands. Re-running anchors to position rig.

Waiting for ballast down to start mixing gel. Dressed shakers with 105 mesh screens.

6/10/2004	TD = 0 m	Day 0
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Repositioned rig to get communications working. Meanwhile picked up collars and running strings.
Tested make up water: Hardness 80, Chlorides 500, pH 7.5, Pf Mf 0/0.1. Waiting for ballast down to mix gel mud. Adjusted Barite stock to match control.

Tested make up water: Hardness 80, Chlorides 500, pH 7.5, Pf Mf 0/0.1.

7/10/2004	TD = 101 m	Day 1
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Run anchors and ballast down. Started mixing mud at 12:00 hrs. Spud well at 16:00 hrs. Drilled to 101 m. POOH. Run casing. DW on board: 4000 bbl. Took 24 MT Gel from Far Grip. No bulks taken from Wrangler.
Adjusted Citric Acid inventory by -2 sacks. Mixed 460 bbl of 28 ppb Gel in Pit 4 & 24 ppb Gel in Pit 5. Used 2:1 gel and SW for sweeps from Pit 4. Pumped 100 bbl sweep at TD and displaced hole with 150 bbl from Pit 5. Total sweeps volume: 250 bbl.

8/10/2004	TD = 325 m	Day 2
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Completed cementation. R/I with 17.5 inch bit. Drilled shoe track and further to 325 m. Pumped 100 bbl sweep at TD. Conducted wiper trip.
Displaced hole with 350 bbl unflocculated gel prior to POOH for casing.
Build up additional 375 bbl of PHG in Pit 4 and Pit 5. Mixed 475 bbl of 4 ppb Guar Gum in Sea Water in Pit 2. Pumped 50 bbl GuarGum sweeps at mid stand and 50 bbl Flocculated Gel (using 2:1 SW) sweeps on connections. DW on board: 3660 bbl.

9/10/2004	TD = 325 m	Day 3
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Run casing to bottom. Circulated sea water. Cemented casing as per program. Running BOP's.
Dumped and cleaned tanks in preparation for KCl/Polymer mud. Started mixing Duovis and Barite in Pit 4 and waiting for mud chemicals to off load from boat. Using 120 bbl of 30 ppb Gel mud into new polymer mud. Saved 100 bbl Gel mud to pump was sweep/spacer before displacement.

10/10/2004	TD = 328 m	Day 4
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Run BOP stack and tested it. RIH with 12.25 bit. Drilled cement from 295 m to 325m. Drilled 3 m of formation and conducted FIT.
Mixed 6% KCl polymer mud in pits. Sheraed the mud through hopper. Pumped remaining gel sweeps while drilling cement. Displace hole to new mud at 328 m.



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

Field/Area : Gippsland Basin
Description : Exploration
Location : VIC/P47

Daily Discussion
M-I Well : AU04BAS001

11/10/2004	TD = 660 m	Day 5
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FIT: 1.7 sg. POOH and RIH with 8.5 inch bit. Drilled to 525 m. Further drilled with controlled ROP to 660 m. Circulated 2 x bottoms up. POOH for logging. DW on board: 1855 bbl.

Could not build PHPA conc above 0.7 ppb due to flow handling restrictions at shakers. But cuttings well encapsulated and firm. Added 1.5 ppb Zinc Oxide to active system at 450m. Lost 325 bbl at shakers due rig inclination, header box blockage, unsheared mud etc. Added polymers direct to active to build properties. Run Garret Gas train to check for sulphides.

Adjusted Mix II inventory to match received quantity yesterday.

12/10/2004	TD = 660 m	Day 6
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Completed POOH. Running wireline logging.

Matched Barite & Gel bulk figures with Ballast control figures.

13/10/2004	TD = 660 m	Day 7
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Well under wireline logging.

Run#1: DLL-MLL-ZDL-CN-SL-MAC

Run#2: RCI

Run#3: VSP

Run#4: SWC

Adjusted Antifoam & MI-Bar sacks inventory.

wireline logging

14/10/2004	TD = 660 m	Day 8
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Completed wireline logging. Run in hole with cement stringer and placed First cmt plug at bottom & second at last casing shoe as per program. WOC. Tested second cement plug for integrity. OK. Set cement retainer and set third cement plug. WOC.

Treated mud left in open hole and in the casing with 800 ppm Glute25 as Biocide and 0.25 ppb OS-1 to remove dissolved oxygen. Pumped 60 bbl of HiVis pill below second cement plug. Treated sea water left in casing above cement retainer with 1000 ppm Glute25. DW left on board: 1250 bbl.

**DRILLING FLUIDS RECAP FOR BASS STRAIT OIL
MOBY 1**

**COST
BY
INTERVAL**



PRODUCT SUMMARY

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

Field/Area : Gippsland Basin
Description : Exploration
Location : VIC/P47

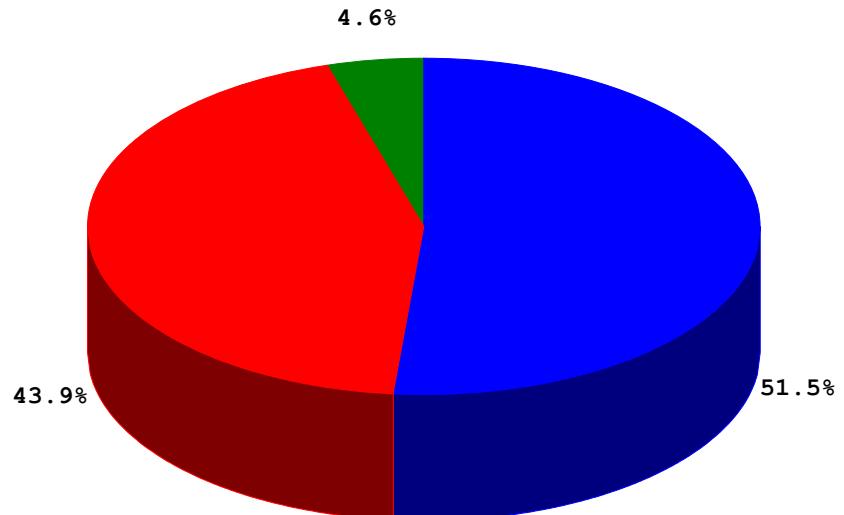
SUMMARY OF PRODUCT USAGE FOR INTERVAL 4/10/2004 - 7/10/2004, 0 - 101 m

WATER-BASED MUD	SIZE	AMOUNT	UNIT COST	PROD COST
			(\$)	(\$)
1 - CALCIUM CHLORIDE	25 KG BG	20	10.50	210.00
2 - LIME	25 KG BG	1	7.95	7.95
3 - CAUSTIC SODA (DRY)	25 KG DM	4	19.50	78.00
4 - M-I GEL BULK	1 MT BK	11	298.30	3281.30
5 - LEAD MUD ENGINEER	1 EA	4	700.00	2800.00
SUB TOTAL:				6377.25
TAX:				0.00
WATER-BASED MUD TOTAL COST:				6377.25
TOTAL MUD COST FOR INTERVAL:				6377.25

BREAKDOWN OF COST BY PRODUCT GROUP 4/10/2004 - 7/10/2004, 0 - 101 m

Water-Based Mud Products	\$	%
1-Common Chemicals	295.95	4.6
2-Engineering	2800.00	43.9
3-Visc/Fluid Loss	3281.30	51.5

Water-Based Mud



Water-Based Mud Total Cost: \$ 6377.25 100.0



PRODUCT SUMMARY

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

Field/Area : Gippsland Basin
Description : Exploration
Location : VIC/P47

SUMMARY OF PRODUCT USAGE FOR INTERVAL

8/10/2004 - 8/10/2004, 101 - 325 m

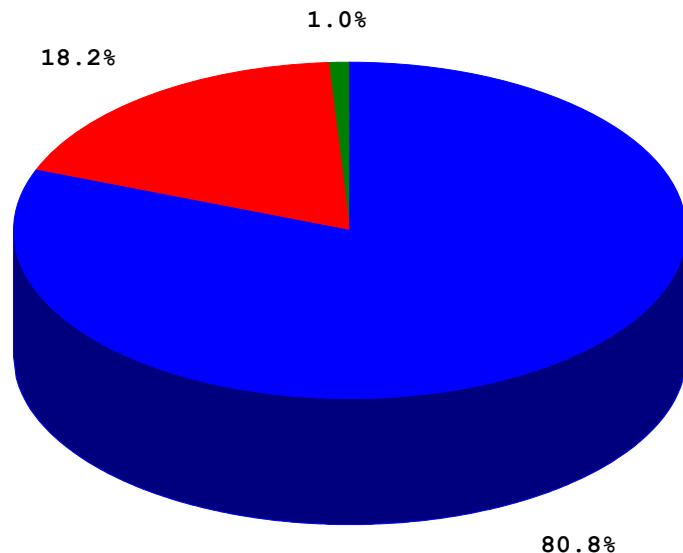
WATER-BASED MUD	SIZE	AMOUNT	UNIT COST	PROD COST
			(\\$)	(\\$)
1 - CAUSTIC SODA (DRY)	25 KG DM	2	19.50	39.00
2 - M-I GEL BULK	1 MT BK	5	298.30	1491.50
3 - LEAD MUD ENGINEER	1 EA	1	700.00	700.00
4 - GUAR GUM	25 KG BG	36	45.10	1623.60
 SUB TOTAL:				3854.10
TAX:				0.00
WATER-BASED MUD TOTAL COST:				3854.10
 TOTAL MUD COST FOR INTERVAL:				3854.10

BREAKDOWN OF COST BY PRODUCT GROUP 8/10/2004 - 8/10/2004, 101 - 325 m

Water-Based Mud Products	\$	%
1-Common Chemicals	39.00	1.0
2-Engineering	700.00	18.2
3-Visc/Fluid Loss	3115.10	80.8

Water-Based Mud Total Cost: \$ 3854.10 100.0

Water-Based Mud





PRODUCT SUMMARY

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

Field/Area : Gippsland Basin
Description : Exploration
Location : VIC/P47

SUMMARY OF PRODUCT USAGE FOR INTERVAL

9/10/2004 - 14/10/2004, 325 - 660 m

WATER-BASED MUD	SIZE	AMOUNT	UNIT COST	PROD COST
			(\$)	(\$)
1 - CALCIUM CHLORIDE	25 KG BG	11	10.50	115.50
2 - DUOTEC	25 KG BG	16	193.11	3089.76
3 - OS-1	25 KG BG	3	35.40	106.20
4 - CAUSTIC SODA (DRY)	25 KG DM	6	19.50	117.00
5 - ANTIFOAM A	5 GA CN	7	66.30	464.10
6 - POLYPAC UL	25 KG BG	48	93.43	4484.64
7 - M-I BAR BULK	1 MT BK	37	283.50	10489.50
8 - POTASSIUM CHLORIDE	1 MT BG	16	382.50	6120.00
9 - LEAD MUD ENGINEER	1 EA	6	700.00	4200.00
10 - ZINC OXIDE	25 KG BG	30	48.60	1458.00
11 - M-I BAR	25 KG BG	80	6.52	521.60
12 - DUO-VIS	25 KG BG	11	222.71	2449.81
13 - GLUTE 25	25 LT CN	7	68.25	477.75
14 - POLY PLUS DRY	25 KG BG	21	83.50	1753.50
SUB TOTAL:				35847.36
TAX:				0.00
WATER-BASED MUD TOTAL COST:				35847.36
TOTAL MUD COST FOR INTERVAL:				35847.36

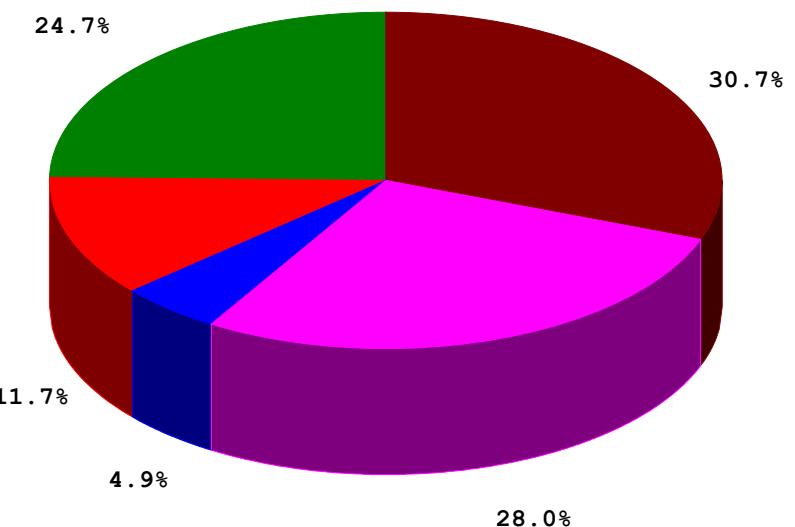
BREAKDOWN OF COST BY PRODUCT GROUP 9/10/2004 - 14/10/2004, 325 - 660 m

Water-Based Mud Products

	\$	%
1-Common Chemicals	8858.55	24.7
2-Engineering	4200.00	11.7
3-Inhibitor	1753.50	4.9
4-Visc/Fluid Loss	10024.21	28.0
5-Weight Material	11011.10	30.7

Water-Based Mud Total Cost: \$ 35847.36 100.0

Water-Based Mud



**DRILLING FLUIDS RECAP FOR BASS STRAIT OIL
MOBY 1**

**DAILY VOLUME
SUMMARY SHEET**



Moby-1 Volume Summaries

36" Interval Seawater/Gel Sweeps

Date	Mud Volume (bbl)					Volume Built bbl								Volume Lost bbl							
	Depth	Hole	Surf	Res. &	Total	Water	Mud	Synthetic	Mud	Chemical	Barite	Daily	Cum	Shakers	Centri-	Desilter	Dump	Hole	Sweeps	Daily	Cummul
			Active	Premix	Vol	Received	Added	Built			Total	Built		fuge					Total	Lost	
7-Oct	101	391	300		691	977					33		1010	1010					319	319	319

17.5" Interval Seawater/Gel Sweeps

Date	Mud Volume (bbl)					Volume Built bbl								Volume Lost bbl								
	Depth	Hole	Surf	Res. &	Total	Water	Mud	Synthetic	Mud	Chemical	Barite	Daily	Cum	Shakers	Centri-	Desilter	Dump	Hole	Sweeps	Daily	Cummul	
			Active	Premix	Vol	Received	Added	Built			Total	Built		fuge					Total	Lost		
8-Oct	325	291	0	170	461	1030	691				20		1741	1741					1280	1280	1280	
9-Oct	325	291	0	440	731	305					2	13	320	2061					50		50	1330

12.25" Interval KCl-PHPA WBM

Date	Mud Volume (bbl)					Volume Built bbl								Volume Lost bbl							
	Depth	Hole	Surf	Res. &	Total	Water	Mud	Synthetic	Mud	Chemical	Barite	Daily	Cum	Shakers	Centri-	Desander	Dump	Hole	Other	Daily	Cummul
			Active	Premix	Vol	Received	Added	Built			Total	Built		fuge					Total	Lost	
10-Oct	328	190	452	380	1022		120			945			1065	1065				43		43	43
11-Oct	660	264	440	110	814	161				24			185	1250	326				67	393	436
12-Oct	660	294	506	20	820						6	6	1256							0	0
13-Oct	660	294	506	20	820						0	1256								0	0
14-Oct	660	111			111					2		2	1258					711		711	711

**DRILLING FLUIDS RECAP FOR BASS STRAIT OIL
MOBY 1**

**TOTAL
MATERIAL
COST**



PRODUCT SUMMARY

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

Field/Area : Gippsland Basin
Description : Exploration
Location : VIC/P47

SUMMARY OF PRODUCT USAGE FOR INTERVAL

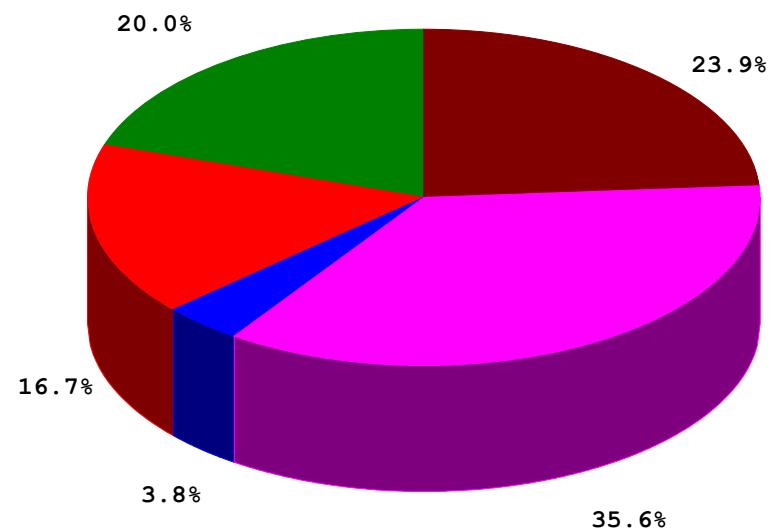
4/10/2004 - 14/10/2004, 0 - 660 m

WATER-BASED MUD	SIZE	AMOUNT	UNIT COST	PROD COST
			(\$)	(\$)
1 - CALCIUM CHLORIDE	25 KG BG	31	10.50	325.50
2 - DUOTEC	25 KG BG	16	193.11	3089.76
3 - LIME	25 KG BG	1	7.95	7.95
4 - OS-1	25 KG BG	3	35.40	106.20
5 - CAUSTIC SODA (DRY)	25 KG DM	12	19.50	234.00
6 - ANTIFOAM A	5 GA CN	7	66.30	464.10
7 - POLYPAC UL	25 KG BG	48	93.43	4484.64
8 - M-I BAR BULK	1 MT BK	37	283.50	10489.50
9 - M-I GEL BULK	1 MT BK	16	298.30	4772.80
10 - POTASSIUM CHLORIDE	1 MT BG	16	382.50	6120.00
11 - LEAD MUD ENGINEER	1 EA	11	700.00	7700.00
12 - GUAR GUM	25 KG BG	36	45.10	1623.60
13 - ZINC OXIDE	25 KG BG	30	48.60	1458.00
14 - M-I BAR	25 KG BG	80	6.52	521.60
15 - DUO-VIS	25 KG BG	11	222.71	2449.81
16 - GLUTE 25	25 LT CN	7	68.25	477.75
17 - POLY PLUS DRY	25 KG BG	21	83.50	1753.50
SUB TOTAL:				46078.71
TAX:				0.00
WATER-BASED MUD TOTAL COST:				46078.71
TOTAL MUD COST FOR INTERVAL:				46078.71

BREAKDOWN OF COST BY PRODUCT GROUP 4/10/2004 - 14/10/2004, 0 - 660 m

Water-Based Mud Products	\$	%
1-Common Chemicals	9193.50	20.0
2-Engineering	7700.00	16.7
3-Inhibitor	1753.50	3.8
4-Visc/Fluid Loss	16420.61	35.6
5-Weight Material	11011.10	23.9
Water-Based Mud Total Cost:	\$ 46078.71	100.0

Water-Based Mud



**DRILLING FLUIDS RECAP FOR BASS STRAIT OIL
MOBY 1**

**HYDRAULICS
REPORT**



HYDRAULICS SUMMARY

Operator : Bass Strait Oil Co

Well Name : Moby-1

Contractor : Diamond Offshore

Field/Area : Gippsland Basin

Description : Exploration

Location : VIC/P47

Date		7/10/2004	8/10/2004	9/10/2004	10/10/2004	11/10/2004	12/10/2004	13/10/2004	14/10/2004
Depth	m	101	325	325	328	660	660	660	660
Days Since Spud		1	2	3	4	5	6	7	8
*RHEOLOGICAL PROPERTIES									
Mud Wt	lb/gal	8.7	8.7	8.7	10	10	10.1	10.1	10.1
Plastic Visc	cP	19	30	30	26	24	28	27	24
Yield Point	lb/100ft ²	22	33	30	29	34	37	34	28
3-rpm Rdg	Fann deg	13	25	22	5	6	6	6	4
np Value		.5493	.5619	.585	.5585	.4996	.5168	.5287	.5475
Kp Value	lb•s^n/100ft ²	1.4227	2.0216	1.6672	1.8026	2.745	2.7631	2.4075	1.8253
na Value		.1865	.1411	.1559	.511	.4774	.5188	.4947	.5649
Ka Value	lb•s^n/100ft ²	10.2329	21.1915	18.2041	2.3182	2.9385	2.7466	2.8568	1.6983
*FLOW DATA									
Flow Rate	gal/min	1103	1103	0	662	662	0	0	0
Pump Pressure	psi	1200	1800	0	1200	2200	0	0	0
Pump	hhp	*	*	*	463	850	*	*	*
*PRESSURE LOSSES									
Drill String	psi	*	*	*	402	624	*	*	*
Bit	psi	*	*	*	476	1163	*	*	*
Annulus	psi	*	*	*	16	107	*	*	*
Total System	psi	*	*	*	895	1894	*	*	*
*BIT HYDRAULICS									
Nozzles	1/32"	3x22	3x20		3x20	3x16			
Nozzles	1/32"		22						
Bit Pressure	%	*	*	*	40	53	*	*	*
Bit	hhp	*	*	*	184	449	*	*	*
Bit HSI	(index)	*	*	*	1.56	7.92	*	*	*
Jet Velocity	ft/s	*	*	*	70	110	*	*	*
Impact Force	lbf	*	*	*	791	1235	*	*	*
DRILL COLLARS ANNULUS									
Velocity	m/min	*	*	*	83	165	*	*	*
Critical Vel	m/min	*	*	*	137	157	*	*	*
Reynolds Number		*	*	*	1135	2605	*	*	*
Crit Re (Lam - Tran)		*	*	*	2705	2786	*	*	*
*DRILL PIPE ANNULUS									
Velocity	m/min	*	*	*	83	105	*	*	*
Critical Vel	m/min	*	*	*	137	132	*	*	*
Reynolds Number		*	*	*	1135	1704	*	*	*
Crit Re (Lam - Tran)		*	*	*	2705	2786	*	*	*
*HOLE CLEANING									
Slip Velocity	m/min	*	*	*	5	5	*	*	*
Rising Velocity	m/min	*	*	*	77	100	*	*	*
Lifting Capacity	%	*	*	*	93	95	*	*	*
Cutting Conc	%	*	*	*	0.0	5.11	*	*	*
Penetration Rate	m/h	0	20	0	0	200	0	0	0
CASING SHOE PRESSURES									
ECD	lb/gal	*	*	*	10.27	10.16	*	*	*
ECD+Cuttings	lb/gal	*	*	*	10.27	10.72	*	*	*
TOTAL DEPTH PRESSURES									
ECD	lb/gal	*	*	*	10.29	10.95	*	*	*
ECD+Cuttings	lb/gal	*	*	*	10.29	11.5	*	*	*

**DRILLING FLUIDS RECAP FOR BASS STRAIT OIL
MOBY 1**

**DRILLING
FLUIDS
SUMMARY**



DRILLING FLUIDS SUMMARY

Operator : Bass Strait Oil Co

Well Name : Moby-1

Contractor : Diamond Offshore

Field/Area : Gippsland Basin

Description : Exploration

Location : VIC/P47

Date	4/10/2004	5/10/2004	6/10/2004	7/10/2004	8/10/2004	9/10/2004
Depth/TVD m	/	/	/	101/101	325/325	325/325
Activity	Towing	Running Anchors	Running Anchors	Run Casing	Run Casing	Run BOP
Mud Type				SW/Gel Swee	SW/Gel Swee	SW/Gel Swee
Hole Size in	36	36	36	36	17.5	17.5
Circ Volume bbl				391	291	291
Flow Rate gal/min	0	0	0	1103	1103	0
Circ Pressure psi	0	0	0	1200	1800	0
Avg ROP m/hr	0	0	0	0	20	0
Sample From				Pit 4	Pit 5	Pit 4
Flow Line Temp °F						
Mud Weight lb/gal	@ °F	@ °F	@ °F	8.7@ 58 °F	8.7@ 55 °F	8.7@ 55 °F
Funnel Viscosity s/qt				>120	>120	> 100
PV cP				19	30	30
YP lb/100ft²				22	33	30
R600/R300/R200	//	//	//	60/41/34	93/63/56	90/60/52
R100/R6/R3	//	//	//	25/14/13	41/25/25	38/24/22
10s/10m/30m Gel lb/100ft²	//	//	//	20/45/60	43/67/74	40/60/70
API Fluid Loss cc/30 min				14	11.2	12
HTHP Fluid Loss cc/30 min				-	-	-
Cake API/HT 1/32"	/	/	/	2/-	2/-	2/-
Solids %Vol				5	8	8
Oil/Water %Vol	/	/	/	/95	/92	/92
Sand %Vol				-	-	-
MBT lb/bbl				23	24	25
pH				9.5	9.5	9.5
Alkal Mud (Pm)				0.8	0.8	.8
Pf/Mf	/	/	/	0.43/0.8	0.47/0.8	0.45/0.9
Chlorides mg/l				1700	800	800
Hardness Ca				80	40	80
KCl % by Wt						
PHPA ppb						
Sulphides ppm						
Daily Mud Cost \$	700.00	700.00	700.00	4277.25	3854.10	5132.33
Cuml Mud Cost \$	700.00	1400.00	2100.00	6377.25	10231.35	15363.68
Sales Engineer	Jasdeep Singh	Jasdeep Singh	Jasdeep Singh	Jasdeep Singh	Jasdeep Singh	Jasdeep Singh
Products Used	425 / 1	425 / 1	425 / 1	CaCl2 / 20	Caustic / 2	CaCl2 / 11
				Lime / 1	Gel / 5	Caustic / 1
				Caustic / 4	425 / 1	Pac UL / 2
				Gel / 11	GUARGUM / 3	BARITE / 9
				425 / 1		425 / 1
						DuoVis / 7

REMARKS

4/10/2004:

5/10/2004: Waiting for ballast down to start mixing gel. Dressed shakers with 105 mesh screens.

6/10/2004: Tested make up water: Hardness 80, Chlorides 500, pH 7.5, Pf Mf 0/0.1.

7/10/2004:

8/10/2004:

9/10/2004:



DRILLING FLUIDS SUMMARY

Operator : Bass Strait Oil Co

Well Name : Moby-1

Contractor : Diamond Offshore

Field/Area : Gippsland Basin

Description : Exploration

Location : VIC/P47

Date	10/10/2004	11/10/2004	11/10/2004	12/10/2004	13/10/2004	14/10/2004
Depth/TVD	m	328/328	660/660	400/400	660/660	660/660
Activity		FIT	POOH	POOH	Wireline Logging	Wireline Logging
Mud Type		KCl/Polymer	KCl/Polymer	KCl/Polymer	KCl/Polymer	KCl/Polymer
Hole Size	in	12.25	8.5	8.5	8.5	8.5
Circ Volume	bbl	642	704	704	800	800
Flow Rate	gal/min	662	662	662	0	0
Circ Pressure	psi	1200	2200	2200	0	0
Avg ROP	m/hr	0	200	200	0	0
Sample From		Suction	Suction	Suction	Pit 3	Pit 3
Flow Line Temp	°F	55	95	82		80
Mud Weight	lb/gal	10@55 °F	10@94 °F	10@60 °F	10.1@80 °F	10.1@76 °F
Funnel Viscosity	s/qt	56	55	65	55	55
PV	cP	26	24	34	28	27
YP	lb/100ft ²	29	34	20	37	34
R600/R300/R200		81/55/43	82/58/47	88/54/42	93/65/53	88/61/50
R100/R6/R3		30/7/5	32/8/6	27/6/4	37/9/6	34/8/6
10s/10m/30m Gel	lb/100ft ²	6/13/	6/13/17	5/15/18	7/13/16	7/11/14
API Fluid Loss	cc/30 min	5	5	5	5	5.2
HTHP Fluid Loss	cc/30 min	-	-	-	-	-
Cake API/HT	1/32"	1/-	1/-	1/-	1/-	1/-
Solids	%Vol	8	9	8	10	10
Oil/Water	%Vol	/92	/91	/92	/90	/90
Sand	%Vol	1	1.5	1	1.0	1.5
MBT	lb/bbl	4	9	7.5	10	10
pH		9.3	9.5	9.5	9	9.5
Alkal Mud (Pm)		.18	.2	.45	.15	.15
Pf/Mf		0.15/0.65	0.2/0.8	0.28/0.88	0.05/0.7	0.08/0.68
Chlorides	mg/l	30000	36000	34000	37500	37000
Hardness Ca		240	260	240	320	280
KCl	% by Wt	6	6	6	6	5.5
PHPA	ppb	0.5	0.9	0.7	0.9	0.9
Sulphides	ppm		0	0	0	0
Daily Mud Cost	\$	16908.22	8675.32		1834.00	1221.60
Cuml Mud Cost	\$	32271.90	40947.22		42781.22	44002.82
Sales Engineer		Jasdeep Singh	Jasdeep Singh	Jasdeep Singh	Jasdeep Singh	Jasdeep Singh
Products Used		Duotec / 3	Duotec / 9	BARITE / 4	425 / 1	Duotec / 4
		Caustic / 2	Caustic / 2	425 / 1	Bar Sks / 80	OS-1 / 3
		Pac UL / 35	DEFOAM / 7			Caustic / 1
		BARITE / 20	Pac UL / 11			425 / 1
		KCl / 12	BARITE / 4			Glut / 7
		425 / 1	KCl / 4			
		DuoVis / 4	425 / 1			
		PHPA / 14	ZnO / 30			
			PHPA / 7			

REMARKS

10/10/2004:

11/10/2004: Adjusted Mix II inventory to match received quantity yesterday.

12/10/2004:

13/10/2004: wireline logging

14/10/2004:

**DRILLING FLUIDS RECAP FOR BASS STRAIT OIL
MOBY 1**

**PRODUCT
CONSUMPTION**



Product Consumption

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

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

Product Name	DATES										Page Totals	
	Product		Oct 4, 2004		Oct 5, 2004		Oct 6, 2004		Oct 7, 2004			
	Price	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty		
CALCIUM CHLORIDE	10.50		0.00		0.00		0.00	20	210.00		0.00	
CITRIC ACID	35.80		0.00		0.00		0.00		0.00		0.00	
DUOTEC	193.11		0.00		0.00		0.00		0.00		0.00	
LIME	7.95		0.00		0.00		0.00	1	7.95		7.95	
OS-1	35.40		0.00		0.00		0.00		0.00		0.00	
SODA ASH	12.30		0.00		0.00		0.00		0.00		0.00	
MIX II MEDIUM	26.72		0.00		0.00		0.00		0.00		0.00	
CAUSTIC SODA (DRY)	19.50		0.00		0.00		0.00	4	78.00	2	39.00	
KWIK SEAL FINE	28.69		0.00		0.00		0.00		0.00		0.00	
ANTIFOAM A	66.30		0.00		0.00		0.00		0.00		0.00	
SODIUM BICARBONATE	10.90		0.00		0.00		0.00		0.00		0.00	
POLYPAC UL	93.43		0.00		0.00		0.00		0.00		0.00	
M-I BAR BULK	283.50		0.00		0.00		0.00		0.00		0.00	
M-I GEL BULK	298.30		0.00		0.00		0.00	11	3281.30	5	1491.50	
CONQOR 404	1168.52										0.00	
POTASSIUM CHLORIDE	382.50		0.00		0.00		0.00		0.00		0.00	
GUAR GUM	45.10		0.00		0.00		0.00		0.00	36	1623.60	
NUT PLUG MEDIUM	13.56										0.00	
ZINC OXIDE	48.60		0.00		0.00		0.00		0.00		0.00	
M-I BAR	6.52		0.00		0.00		0.00		0.00		0.00	
DUO-VIS	222.71		0.00		0.00		0.00		0.00		0.00	
M-I GEL NT	18.78		0.00		0.00		0.00		0.00		0.00	
PIPE-LAX W	365.30		0.00		0.00		0.00		0.00		0.00	
GLUTE 25	68.25		0.00		0.00		0.00		0.00		0.00	
KWIK SEAL MEDIUM	28.69		0.00		0.00		0.00		0.00		0.00	
MIX II FINE	26.72		0.00		0.00		0.00		0.00		0.00	
POLY PLUS DRY	83.50		0.00		0.00		0.00		0.00		0.00	
LEAD MUD ENGINEER	700.00	1	700.00	1	700.00	1	700.00	1	700.00	1	700.00	
Cumulative Engineering			700.00		1400.00		2100.00		2800.00		3500.00	
Daily Product			0.00		0.00		0.00		3577.25		3154.10	
Daily Sales Tax			0		0		0		0		0.00	
Cumulative Product			0.00		0.00		0.00		3577.25		6731.35	
Cumulative Cost			700.00		1400.00		2100.00		6377.25		10231.35	



Product Consumption

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

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

Product Name	DATES										Page Totals	
	Previous Page		Oct 9, 2004 Qty		Oct 10, 2004 Qty		Oct 11, 2004 Qty		Oct 12, 2004 Qty			
CALCIUM CHLORIDE	210.00	11	115.50		0.00		0.00		0.00		325.50	
CITRIC ACID	0.00		0.00		0.00		0.00		0.00		0.00	
DUOTEC	0.00		0.00	3	579.33	9	1737.99		0.00		2317.32	
LIME	7.95		0.00		0.00		0.00		0.00		7.95	
OS-1	0.00		0.00		0.00		0.00		0.00		0.00	
SODA ASH	0.00		0.00		0.00		0.00		0.00		0.00	
MIX II MEDIUM	0.00		0.00		0.00		0.00		0.00		0.00	
CAUSTIC SODA (DRY)	117.00	1	19.50	2	39.00	2	39.00		0.00		214.50	
KWIK SEAL FINE	0.00		0.00		0.00		0.00		0.00		0.00	
ANTIFOAM A	0.00		0.00		0.00	7	464.10		0.00		464.10	
SODIUM BICARBONATE	0.00		0.00		0.00		0.00		0.00		0.00	
POLYPAC UL	0.00	2	186.86	35	3270.05	11	1027.73		0.00		4484.64	
M-I BAR BULK	0.00	9	2551.50	20	5670.00	4	1134.00	4	1134.00		10489.50	
M-I GEL BULK	4772.80		0.00		0.00		0.00		0.00		4772.80	
CONQOR 404	0.00										0.00	
POTASSIUM CHLORIDE	0.00		0.00	12	4590.00	4	1530.00		0.00		6120.00	
GUAR GUM	1623.60		0.00		0.00		0.00		0.00		1623.60	
NUT PLUG MEDIUM	0.00										0.00	
ZINC OXIDE	0.00		0.00		0.00	30	1458.00		0.00		1458.00	
M-I BAR	0.00		0.00		0.00		0.00		0.00	80	521.60	
DUO-VIS	0.00	7	1558.97	4	890.84		0.00		0.00		2449.81	
M-I GEL NT	0.00		0.00		0.00		0.00		0.00		0.00	
PIPE-LAX W	0.00		0.00		0.00		0.00		0.00		0.00	
GLUTE 25	0.00		0.00		0.00		0.00		0.00		0.00	
KWIK SEAL MEDIUM	0.00		0.00		0.00		0.00		0.00		0.00	
MIX II FINE	0.00		0.00		0.00		0.00		0.00		0.00	
POLY PLUS DRY	0.00		0.00	14	1169.00	7	584.50		0.00		1753.50	
LEAD MUD ENGINEER	3500.00	1	700.00	1	700.00	1	700.00	1	700.00	1	7000.00	
Cumulative Engineering			4200.00		4900.00		5600.00		6300.00		7000.00	
Daily Product			4432.33		16208.22		7975.32		1134.00		521.60	
Daily Sales Tax			0		0		0		0		0.00	
Cumulative Product			11163.68		27371.90		35347.22		36481.22		37002.82	
Cumulative Cost			15363.68		32271.90		40947.22		42781.22		44002.82	



Product Consumption

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

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

Product Name	DATES										Page Totals
	Previous		Oct 14, 2004								
	Page	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
CALCIUM CHLORIDE	325.50		0.00								325.50
CITRIC ACID	0.00		0.00								0.00
DUOTEC	2317.32	4	772.44								3089.76
LIME	7.95		0.00								7.95
OS-1	0.00	3	106.20								106.20
SODA ASH	0.00		0.00								0.00
MIX II MEDIUM	0.00		0.00								0.00
CAUSTIC SODA (DRY)	214.50	1	19.50								234.00
KWIK SEAL FINE	0.00		0.00								0.00
ANTIFOAM A	464.10		0.00								464.10
SODIUM BICARBONATE	0.00		0.00								0.00
POLYPAC UL	4484.64		0.00								4484.64
M-I BAR BULK	10489.5		0.00								10489.50
M-I GEL BULK	4772.80		0.00								4772.80
CONQOR 404	0.00										0.00
POTASSIUM CHLORIDE	6120.00		0.00								6120.00
GUAR GUM	1623.60		0.00								1623.60
NUT PLUG MEDIUM	0.00										0.00
ZINC OXIDE	1458.00		0.00								1458.00
M-I BAR	521.60		0.00								521.60
DUO-VIS	2449.81		0.00								2449.81
M-I GEL NT	0.00		0.00								0.00
PIPE-LAX W	0.00		0.00								0.00
GLUTE 25	0.00	7	477.75								477.75
KWIK SEAL MEDIUM	0.00		0.00								0.00
MIX II FINE	0.00		0.00								0.00
POLY PLUS DRY	1753.50		0.00								1753.50
LEAD MUD ENGINEER	7000.00	1	700.00								7700.00
Cumulative Engineering			7700.00								7700.00
Daily Product			1375.89								38378.71
Daily Sales Tax			0								0.00
Cumulative Product			38378.71								38378.71
Cumulative Cost			46078.71								46078.71



M-I Australia Pty Ltd

**DRILLING FLUIDS RECAP FOR BASS STRAIT OIL
MOBY 1**

**DAILY
MUD
REPORTS**



WATER-BASED MUD REPORT No. 1

Date	4/10/2004	Depth/TVD	m / m
Spud Date	7/10/2004	Mud Type	
Water Depth	53	Activity	Towing

Operator : Bass Strait Oil Co
Report For : Chris Wilson/John Wrenn
Well Name : Moby-1
Contractor : Diamond Offshore
Report For : Sean DeFreitas/Paul Baker

Field/Area : Gippsland Basin
Description : Exploration
Location : VIC/P47
M-I Well No. : AU04BAS001

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size	36 in	Surface	Hole	Pump Make	NATIONAL 12P-16	NATIONAL 12P-16C
Nozzles	1/32"			Pump Size	6.5 X 12.in	6.5 X 12.in
Drill Pipe Size	Length in	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
Drill Pipe Size	Length in	Intermediate	Total Circulating Vol	Pump stk/min		
Drill Collar Size	Length in	Production or Liner	In Storage	Flow Rate	gal/min	
				Bottoms Up		
				Total Circ Time		
				Circulating Pressure		
MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From				Products	Size	Amt
Flow Line Temp	°F			LEAD MUD ENGINEER	1 EA	1
Depth/TVD	m					
Mud Weight	lb/gal					
Funnel Viscosity	s/qt					
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	% by Wt					
PHPA	ppb					
Sulphides	ppm					
REMARKS AND TREATMENT				REMARKS		
Rig under Tow. Gel on board: 7 MT Drillwater on board: 3563 bbl				Mud Engineer arrived on rig @ 10:30 Hrs. See inventory sheet for chemicals on board.		
TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service		Oil Added	0	NaCl	-1.2/	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)
Towing	24	Shakers	0	Drill Solids	/	Bit Jet Vel (m/s)
		Evaporation	0	Weight Material	/	Ann. Vel DP (m/min)
		Centrifuge	0	Chemical Conc	- /	Ann. Vel DC (m/min)
		Formation	0	Inert/React		Crit Vel DP (m/min)
		Left in Hole	0	Average SG		Crit Vel DC (m/min)
		Other	0	Carb/BiCarb (m mole/L)	/	

M-I ENGR / PHONE		RIG PHONE		WAREHOUSE PHONE		DAILY COST	CUMULATIVE COST
Jasdeep Singh		61-8-6363 8872				\$ 700.00	\$ 700.00



WATER-BASED MUD REPORT No. 2

Date	5/10/2004	Depth/TVD	m / m
Spud Date	7/10/2004	Mud Type	
Water Depth	53	Activity	Running Anchors

Operator : Bass Strait Oil Co
Report For : Chris Wilson/John Wrenn
Well Name : Moby-1
Contractor : Diamond Offshore
Report For : Sean DeFreitas/Paul Baker

Field/Area : Gippsland Basin
Description : Exploration
Location : VIC/P47
M-I Well No. : AU04BAS001

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size	36 in	Surface	Hole	Pump Make	NATIONAL 12P-16	NATIONAL 12P-16C
Nozzles	1/32"			Pump Size	6.5 X 12.in	6.5 X 12.in
Drill Pipe Size	Length in	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
Drill Pipe Size	Length in	Intermediate	Total Circulating Vol	Pump stk/min		
Drill Collar Size	Length in	Production or Liner	In Storage	Flow Rate	gal/min	
				Bottoms Up		
				Total Circ Time		
				Circulating Pressure		
MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From				Products	Size	Amt
Flow Line Temp	°F			LEAD MUD ENGINEER	1 EA	1
Depth/TVD	m					
Mud Weight	lb/gal					
Funnel Viscosity	s/qt					
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	% by Wt					
PHPA	ppb					
Sulphides	ppm					
REMARKS AND TREATMENT				REMARKS		
Run anchors. Meanwhile made up drill pipe stands. Re-running anchors to position rig.				Waiting for ballast down to start mixing gel. Dressed shakers with 105 mesh screens.		
TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)		SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service	24	Oil Added	0	NaCl	-1.2/	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)
Towing		Shakers	0	Drill Solids	/	Bit Jet Vel (m/s)
		Evaporation	0	Weight Material	/	Ann. Vel DP (m/min)
		Centrifuge	0	Chemical Conc	- /	Ann. Vel DC (m/min)
		Formation	0	Inert/React		Crit Vel DP (m/min)
		Left in Hole	0	Average SG		Crit Vel DC (m/min)
		Other	0	Carb/BiCarb (m mole/L)	/	
M-I ENGR / PHONE			RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Jasdeep Singh			61-8-6363 8872		\$ 700.00	\$ 1,400.00



WATER-BASED MUD REPORT No. 3

Date	6/10/2004	Depth/TVD	m / m
Spud Date	7/10/2004	Mud Type	
Water Depth	53	Activity	Running Anchors

Operator : Bass Strait Oil Co
Report For : Chris Wilson/John Wrenn
Well Name : Moby-1
Contractor : Diamond Offshore
Report For : Sean DeFreitas/Paul Baker

Field/Area : Gippsland Basin
Description : Exploration
Location : VIC/P47
M-I Well No. : AU04BAS001

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size	36 in	Surface	Hole	Pump Make	NATIONAL 12P-16	NATIONAL 12P-16C
Nozzles	1/32"			Pump Size	6.5 X 12.in	6.5 X 12.in
Drill Pipe Size	Length in	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
Drill Pipe Size	Length in	Intermediate	Total Circulating Vol	Pump stk/min		
Drill Collar Size	Length in	Production or Liner	In Storage	Flow Rate	gal/min	
				Bottoms Up		
				Total Circ Time		
				Circulating Pressure		
MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From				Products	Size	Amt
Flow Line Temp	°F			LEAD MUD ENGINEER	1 EA	1
Depth/TVD	m					
Mud Weight	lb/gal					
Funnel Viscosity	s/qt					
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	% by Wt					
PHPA	ppb					
Sulphides	ppm					
REMARKS AND TREATMENT				REMARKS		
Tested make up water: Hardness 80, Chlorides 500, pH 7.5, Pf Mf 0/0.1. Waiting for ballast down to mix gel mud. Adjusted Barite stock to match control.				Repositioned rig to get communications working. Meanwhile picked up collars and running strings.		
TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS		
Rig Up/Service	24	Oil Added	0	NaCl	-1.2/	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)
Towing		Shakers	0	Drill Solids	/	Bit Jet Vel (m/s)
		Evaporation	0	Weight Material	/	Ann. Vel DP (m/min)
		Centrifuge	0	Chemical Conc	- /	Ann. Vel DC (m/min)
		Formation	0	Inert/React		Crit Vel DP (m/min)
		Left in Hole	0	Average SG		Crit Vel DC (m/min)
		Other	0	Carb/BiCarb (m mole/L)	/	
M-I ENGR / PHONE		RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST	
Jasdeep Singh		61-8-6363 8872	61-8-9325 4822	\$ 700.00	\$ 2,100.00	



WATER-BASED MUD REPORT No. 4

Date	7/10/2004	Depth/TVD	101 m / 101 m
Spud Date	7/10/2004	Mud Type	SW/Gel Sweeps
Water Depth	53	Activity	Run Casing

Operator : Bass Strait Oil Co
Report For : Chris Wilson/John Wrenn
Well Name : Moby-1
Contractor : Diamond Offshore
Report For : Sean DeFreitas/Paul Baker

Field/Area : Gippsland Basin
Description : Exploration
Location : VIC/P47
M-I Well No. : AU04BAS001

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA	
Bit Size	36 in Mill Tooth	Surface	Hole 90.9	Pump Make	NATIONAL 12P-16
Nozzles	3x22 / 1/32"			Pump Size	6.5 X 12.in
Drill Pipe Size	Length in m	Intermediate	Active Pits 300.1	Pump Cap	5.016 gal/stk
Drill Pipe Size	Length in m	Intermediate	Total Circulating Vol 300.1	Pump stk/min	110@97%
Drill Collar Size	Length in m	Production or Liner	In Storage 300	Flow Rate	1103 gal/min
				Bottoms Up	min 0 stk
				Total Circ Time	11.4 min 2514 stk
				Circulating Pressure	1200 psi

MUD PROPERTIES		
Sample From	Pit 4@18:00	
Flow Line Temp	°F	
Depth/TVD	m	101/101
Mud Weight	lb/gal	8.7@58°F
Funnel Viscosity	s/qt	>120
Rheology Temp	°F	54
R600/R300		60/41
R200/R100		34/25
R6/R3		14/13
PV	cP	19
YP	lb/100ft²	22
10s/10m/30m Gel	lb/100ft²	20/45/60
API Fluid Loss	cc/30 min	14
HTHP FL Temp	cc/30 min	-@-°F
Cake API/HTHP	1/32"	2/-
Solids	%Vol	5
Oil/Water	%Vol	/95
Sand	%Vol	-
MBT	lb/bbl	23
pH		9.5
Alkal Mud (Pm)		0.8
Pf/Mf		0.43/0.8
Chlorides	mg/l	1700
Hardness Ca	mg/l	80
KCl	% by Wt	
PHPA	ppb	
Sulphides	ppm	

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
CALCIUM CHLORIDE	25 KG BG	20
LIME	25 KG BG	1
CAUSTIC SODA (DRY)	25 KG DM	4
M-I GEL BULK	1 MT BK	11
LEAD MUD ENGINEER	1 EA	1

SOLIDS EQUIP	Size	Hr
VSM Thule Shake	4 x 105	0
VSM Thule Shake	4 x 105	0
VSM Thule Shake	4 x 105	0
VSM Thule Shake	3 x 105, 1x84	0
D-Sander		0
D-Silter		0

MUD PROPERTY SPECIFICATIONS

Weight	8.7
Viscosity	>100
Filtrate	NC

REMARKS AND TREATMENT

Adjusted Citric Acid inventory by -2 sacks. Mixed 460 bbl of 28 ppb Gel in Pit 4 & 24 ppb Gel in Pit 5. Used 2:1 gel and SW for sweeps from Pit 4. Pumped 100 bbl sweep at TD and displaced hole with 150 bbl from Pit 5. Total sweeps volume: 250 bbl.

REMARKS

Run anchors and ballast down. Started mixing mud at 12:00 hrs. Spud well at 16:00 hrs. Drilled to 101 m. POOH. Run casing. DW on board: 4000 bbl. Took 24 MT Gel from Far Grip. No bulks taken from Wrangler.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS
Rig Up/Service	16	Oil Added	.1/.1	np/na Values
Drilling	2	Water Added	/ .	kp/ka (lb•s^n/100ft^2)
Tripping	2	Mud Received	2.5/ 23.1	Bit Loss (psi / %)
Non-Productive Tim		Dumped	2.5/ 23.	Bit HHP (hhp / HSI)
Running Casing	4	Shakers	./. 1	Bit Jet Vel (m/s)
		Evaporation	NA/ NA	Ann. Vel DP (m/min)
		Centrifuge	- / .	Ann. Vel DC (m/min)
		Formation	.0031	Crit Vel DP (m/min)
		Left in Hole	2.6	Crit Vel DC (m/min)
		Other	8.6/ 13.6	Carb/BiCarb (m mole/L)

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Jasdeep Singh	61-8-6363 8872	61-8-9325 4822	\$ 4,277.25	\$ 6,377.25



WATER-BASED MUD REPORT No. 5

Date	8/10/2004	Depth/TVD	325 m / 325 m
Spud Date	7/10/2004	Mud Type	SW/Gel Sweeps
Water Depth	53	Activity	Run Casing

Operator : Bass Strait Oil Co
Report For : Chris Wilson/John Wrenn
Well Name : Moby-1
Contractor : Diamond Offshore
Report For : Pedro Johns/Paul Baker

Field/Area : Gippsland Basin
Description : Exploration
Location : VIC/P47
M-I Well No. : AU04BAS001

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size	17.5 in Mill Tooth	Surface	Hole 282.1	Pump Make	OILWELL 1700PT	NATIONAL 12P-16C
Nozzles	3x20 /22 / 1/32"			Pump Size	6.5 X 12.in	6.5 X 12.in
Drill Pipe Size	Length in m	Intermediate	Active Pits 199.9	Pump Cap	5.016 gal/stk	5.016 gal/stk
Drill Pipe Size	Length in m	Intermediate	Total Circulating Vol 199.9	Pump stk/min	110@97%	110@97%
Drill Collar Size	Length in m	Production or Liner	In Storage 170	Flow Rate	1103 gal/min	
				Bottoms Up	min 0 stk	
				Total Circ Time	7.6 min	1675 stk
				Circulating Pressure	1800 psi	
MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From		Pit 5@18:00		Products	Size	Amt
Flow Line Temp	°F			CAUSTIC SODA (DRY)	25 KG DM	2
Depth/TVD	m	325/325		M-I GEL BULK	1 MT BK	5
Mud Weight	lb/gal	8.7@55°F		LEAD MUD ENGINEER	1 EA	1
Funnel Viscosity	s/qt	>120		GUAR GUM	25 KG BG	36
Rheology Temp	°F	55				
R600/R300		93/63				
R200/R100		56/41				
R6/R3		25/25				
PV	cP	30				
YP	lb/100ft²	33				
10s/10m/30m Gel	lb/100ft²	43/67/74				
API Fluid Loss	cc/30 min	11.2				
HTHP FL Temp	cc/30 min	-@°F				
Cake API/HTHP	1/32"	2/-				
Solids	%Vol	8				
Oil/Water	%Vol	/92				
Sand	%Vol	-				
MBT	lb/bbl	24				
pH		9.5				
Alkal Mud (Pm)		0.8				
Pf/Mf		0.47/0.8				
Chlorides	mg/l	800				
Hardness Ca	mg/l	40				
KCl	% by Wt					
PHPA	ppb					
Sulphides	ppm					
REMARKS AND TREATMENT				REMARKS		
Build up additional 375 bbl of PHG in Pit 4 and Pit 5. Mixed 475 bbl of 4 ppb Guar Gum in Sea Water in Pit 2. Pumped 50 bbl GuarGum sweeps at mid stand and 50 bbl Flocculated Gel (using 2:1 SW) sweeps on connections. DW on board: 3660 bbl.				Completed cementation. R/I with 17.5 inch bit. Drilled shoe track and further to 325 m. Pumped 100 bbl sweep at TD. Conducted wiper trip. Displaced hole with 350 bbl unflocculated gel prior to POOH for casing.		
TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)		SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service		Oil Added	0	NaCl .4	np/na Values	
Drilling	8	Water Added	1030	KCl .1	kp/ka (lb•s^n/100ft²)	
Tripping	6	Mud Received	0	Low Gravity 2.6/ 23.7	Bit Loss (psi / %)	
Non-Productive Tim		Dumped	0	Bentonite 2.6/ 24.	Bit HHP (hhp / HSI)	
Wait on Cement	8	Shakers	0	Drill Solids .1-.3	Bit Jet Vel (m/s)	
Running Casing	2	Formation	0	Weight Material NA/ NA	Ann. Vel DP (m/min)	
		Left in Hole	350	Chemical Conc - / .	Ann. Vel DC (m/min)	
		Other	0	Inert/React -.0145	Crit Vel DP (m/min)	
		Sweeps	930	Average SG 2.6	Crit Vel DC (m/min)	
				Carb/BiCarb (m mole/L) 9.4/ 14.8		
M-I ENGR / PHONE			RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Jasdeep Singh			61-8-6363 8872	61-8-9325 4822	\$ 3,854.10	\$ 10,231.35

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)		SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service		Oil Added	0	NaCl .4	np/na Values	
Drilling	8	Water Added	1030	KCl .1	kp/ka (lb•s^n/100ft²)	
Tripping	6	Mud Received	0	Low Gravity 2.6/ 23.7	Bit Loss (psi / %)	
Non-Productive Tim		Dumped	0	Bentonite 2.6/ 24.	Bit HHP (hhp / HSI)	
Wait on Cement	8	Shakers	0	Drill Solids .1-.3	Bit Jet Vel (m/s)	
Running Casing	2	Formation	0	Weight Material NA/ NA	Ann. Vel DP (m/min)	
		Left in Hole	350	Chemical Conc - / .	Ann. Vel DC (m/min)	
		Other	0	Inert/React -.0145	Crit Vel DP (m/min)	
		Sweeps	930	Average SG 2.6	Crit Vel DC (m/min)	
				Carb/BiCarb (m mole/L) 9.4/ 14.8		



WATER-BASED MUD REPORT No. 6

Date	9/10/2004	Depth/TVD	325 m / 325 m
Spud Date	7/10/2004	Mud Type	SW/Gel Sweeps
Water Depth	53	Activity	Run BOP

Operator : Bass Strait Oil Co
Report For : Chris Wilson/John Wrenn
Well Name : Moby-1
Contractor : Diamond Offshore
Report For : Pedro Johns/Paul Baker

Field/Area : Gippsland Basin
Description : Exploration
Location : VIC/P47
M-I Well No. : AU04BAS001

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size	17.5 in	Surface	Hole 124.3	Pump Make	OILWELL 1700PT	NATIONAL 12P-16C
Nozzles	1/32"			Pump Size	6.5 X 12.in	6.5 X 12.in
Drill Pipe Size	Length in m	Intermediate	Active Pits 199.7	Pump Cap	gal/stk	gal/stk
Drill Pipe Size	Length in m	Intermediate	Total Circulating Vol 199.7	Pump stk/min	110@97%	110@97%
Drill Collar Size	Length in m	Production or Liner	In Storage 440	Flow Rate	gal/min	
				Bottoms Up		
				Total Circ Time		
				Circulating Pressure		
MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From		Pit 4@19:00		Products	Size	Amt
Flow Line Temp	°F			CALCIUM CHLORIDE	25 KG BG	11
Depth/TVD	m	325/325		CAUSTIC SODA (DRY)	25 KG DM	1
Mud Weight	lb/gal	8.7@55°F		POLYPAC UL	25 KG BG	2
Funnel Viscosity	s/qt	> 100		M-I BAR BULK	1 MT BK	9
Rheology Temp	°F	55		LEAD MUD ENGINEER	1 EA	1
R600/R300		90/60		DUO-VIS	25 KG BG	7
R200/R100		52/38				
R6/R3		24/22				
PV	cP	30				
YP	lb/100ft²	30				
10s/10m/30m Gel	lb/100ft²	40/60/70				
API Fluid Loss	cc/30 min	12				
HTHP FL Temp	cc/30 min	-@-°F				
Cake API/HTHP	1/32"	2/-				
Solids	%Vol	8				
Oil/Water	%Vol	/92				
Sand	%Vol					
MBT	lb/bbl	25				
pH		9.5				
Alkal Mud (Pm)		.8				
Pf/Mf		.45/.9				
Chlorides	mg/l	800				
Hardness Ca	mg/l	80				
KCl	% by Wt					
PHPA	ppb					
Sulphides	ppm					
REMARKS AND TREATMENT				REMARKS		
Dumped and cleaned tanks in preparation for KCl/Polymer mud. Started mixing Duovis and Barite in Pit 4 and waiting for mud chemicals to off load from boat. Using 120 bbl of 30 ppb Gel mud into new polymer mud. Saved 100 bbl Gel mud to pump was sweep/spacer before displacement.				Run casing to bottom. Circulated sea water. Cemented casing as per program. Running BOP's.		
TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS		
Rig Up/Service		Oil Added	.4	np/na Values		
Drilling		Water Added	/.4	kp/ka (lb•s^n/100ft²)		
Tripping		Mud Received	0	Bit Loss (psi / %)		
Non-Productive Tim		Dumped	0	Bit HHP (hhp / HSI)		
Wait on Cement	6	Shakers	0	Bit Jet Vel (m/s)		
Running Casing	10	Formation	0	Ann. Vel DP (m/min)		
BOP NU	8	Left in Hole	0	Ann. Vel DC (m/min)		
		Other	0	Crit Vel DP (m/min)		
		Sweeps	0	Crit Vel DC (m/min)		
				Carb/BiCarb (m mole/L)	9. / 14.2	
M-I ENGR / PHONE		RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST	
Jasdeep Singh		61-8-6363 8872	61-8-9325 4822	\$ 5,132.33	\$ 15,363.68	

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS
Rig Up/Service		Oil Added	0	np/na Values
Drilling		Water Added	305	kp/ka (lb•s^n/100ft²)
Tripping		Mud Received	0	Bit Loss (psi / %)
Non-Productive Tim		Dumped	50	Bit HHP (hhp / HSI)
Wait on Cement	6	Shakers	0	Bit Jet Vel (m/s)
Running Casing	10	Formation	0	Ann. Vel DP (m/min)
BOP NU	8	Left in Hole	0	Ann. Vel DC (m/min)
		Other	0	Crit Vel DP (m/min)
		Sweeps	0	Crit Vel DC (m/min)
				Carb/BiCarb (m mole/L)
				9. / 14.2



WATER-BASED MUD REPORT No. 7

Date	10/10/2004	Depth/TVD	328 m / 328 m
Spud Date	7/10/2004	Mud Type	KCl/Polymer
Water Depth	53	Activity	FIT

Operator : Bass Strait Oil Co
Report For : Chris Wilson/John Wrenn
Well Name : Moby-1
Contractor : Diamond Offshore
Report For : Pedro Johns/Paul Baker

Field/Area : Gippsland Basin
Description : Exploration
Location : VIC/P47
M-I Well No. : AU04BAS001

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA	
Bit Size	12.25 in Smith	Surface	Hole 190.3	Pump Make	OILWELL 1700PT
Nozzles	3x20 / 1/32"			Pump Size	6.5 X 12.in
Drill Pipe Size	Length 5 in 125 m	Intermediate	Active Pits 451.7	Pump Cap	5.016 gal/stk
Drill Pipe Size	Length 5 in 113 m	Intermediate	Total Circulating Vol 642	Pump stk/min	65@97% 67@97%
Drill Collar Size	Length 9.5 in 35 m	Production or Liner	In Storage 380	Flow Rate	662 gal/min
				Bottoms Up	11.2 min 1484 stk
				Total Circ Time	40.7 min 5377 stk
				Circulating Pressure	1200 psi

MUD PROPERTIES		
Sample From	Suction@22:30	
Flow Line Temp	°F 55	
Depth/TVD	m 328/328	
Mud Weight	lb/gal 10@55°F	
Funnel Viscosity	s/qt 56	
Rheology Temp	°F 55	
R600/R300	81/55	
R200/R100	43/30	
R6/R3	7/5	
PV	cP 26	
YP	lb/100ft² 29	
10s/10m/30m Gel	lb/100ft² 6/13	
API Fluid Loss	cc/30 min 5	
HTHP FL Temp	cc/30 min -@-°F	
Cake API/HTHP	1/32" 1/-	
Solids	%Vol 8	
Oil/Water	%Vol /92	
Sand	%Vol 1	
MBT	lb/bbl 4	
pH	9.3	
Alkal Mud (Pm)	.18	
Pf/Mf	.15/.65	
Chlorides	mg/l 30000	
Hardness Ca	mg/l 240	
KCl	% by Wt 6	
PHPA	ppb 0.5	
Sulphides	ppm	

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
DUOTEC	25 KG BG	3
CAUSTIC SODA (DRY)	25 KG DM	2
POLYPAC UL	25 KG BG	35
M-I BAR BULK	1 MT BK	20
POTASSIUM CHLORIDE	1 MT BG	12
LEAD MUD ENGINEER	1 EA	1
DUO-VIS	25 KG BG	4
POLY PLUS DRY	25 KG BG	14

SOLIDS EQUIP	Size	Hr
VSM Thule Shake	4 x 105	0
VSM Thule Shake	4 x 105	0
VSM Thule Shake	4 x 105	0
VSM Thule Shake	3 x 105, 1x84	0
D-Sander		0
D-Silter		0

MUD PROPERTY SPECIFICATIONS

Weight	10
Viscosity	60
Filtrate	5

REMARKS AND TREATMENT

Mixed 6% KCl polymer mud in pits. Sheraed the mud through hopper.
 Pumped remaining gel sweeps while drilling cement. Displace hole to new mud at 328 m.

REMARKS

Run BOP stack and tested it. RIH with 12.25 bit. Drilled cement from 295 m to 325m.
 Drilled 3 m of formation and conducted FIT.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS
Rig Up/Service		Oil Added 0	NaCl /.2	np/na Values 0.558/0.511
Drilling	2	Water Added 538	KCl 2.2/ 20.5	kp/ka (lb•s^n/100ft²) 1.803/2.318
Tripping	4	Mud Received 0	Low Gravity 1.4/ 12.7	Bit Loss (psi / %) 476 / 39.7
Non-Productive Tim		Dumped 110	Bentonite .4/ 4.	Bit HHP (hhp / HSI) 184 / 1.6
BOP Testing	4	Shakers 0	Drill Solids 1./ 8.7	Bit Jet Vel (m/s) 70
Testing		Formation 0	Weight Material 4.4/ 64.	Ann. Vel DP (m/min) 38.3
BOP NU	14	Left in Hole 0	Chemical Conc -. / .	Ann. Vel DC (m/min) 82.68
		Other 120	Inert/React 2.1648	Crit Vel DP (m/min) 97
		Sweeps 90	Average SG 3.81	Crit Vel DC (m/min) 137
			Carb/BiCarb (m mole/L) 3./ 7.5	ECD @ 328 (lb/gal) 10.29

M-I ENGR / PHONE

RIG PHONE

WAREHOUSE PHONE

DAILY COST

CUMULATIVE COST

Jasdeep Singh

61-8-6363 8872

61-8-9325 4822

\$ 16,908.22

\$ 32,271.90



WATER-BASED MUD REPORT No. 8

Date	11/10/2004	Depth/TVD	660 m / 660 m
Spud Date	7/10/2004	Mud Type	KCl/Polymer
Water Depth	53	Activity	POOH

Operator : Bass Strait Oil Co
Report For : Chris Wilson/John Wrenn
Well Name : Moby-1
Contractor : Diamond Offshore
Report For : Sean Defritas/Paul Baker

Field/Area : Gippsland Basin
Description : Exploration
Location : VIC/P47
M-I Well No. : AU04BAS001

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size	8.5 in Smith	Surface	Hole 264.4	Pump Make	OILWELL 1700PT	NATIONAL 12P-16C
Nozzles	3x16 / 1/32"			Pump Size	6.5 X 12.in	6.5 X 12.in
Drill Pipe Size	Length 5 in 412 m	Intermediate	Active Pits 439.6	Pump Cap	5.016 gal/stk	5.016 gal/stk
Drill Pipe Size	Length 5 in 111 m	Intermediate	Total Circulating Vol 704	Pump stk/min	65@97%	67@97%
Drill Collar Size	Length 6.5 in 137 m	Production or Liner	In Storage 110	Flow Rate	662 gal/min	
				Bottoms Up	13.5 min	1957 stk
				Total Circ Time	36.9 min	5894 stk
				Circulating Pressure	2200 psi	

MUD PROPERTIES		
Sample From	Suction@21:00	Suction@10:00
Flow Line Temp	°F 95	82
Depth/TVD	m 660/660	400/400
Mud Weight	lb/gal 10@94°F	10@60°F
Funnel Viscosity	s/qt 55	65
Rheology Temp	°F 94	60
R600/R300	82/58	88/54
R200/R100	47/32	42/27
R6/R3	8/6	6/4
PV	cP 24	34
YP	lb/100ft² 34	20
10s/10m/30m Gel	lb/100ft² 6/13/17	5/15/18
API Fluid Loss	cc/30 min 5	5
HTHP FL Temp	cc/30 min -@-°F	-@-°F
Cake API/HTHP	1/32"	1/-
Solids	%Vol 9	8
Oil/Water	%Vol /91	/92
Sand	%Vol 1.5	1
MBT	lb/bbl 9	7.5
pH	9.5	9.5
Alkal Mud (Pm)	.2	.45
Pf/Mf	.2/.8	.28/.88
Chlorides	mg/l 36000	34000
Hardness Ca	mg/l 260	240
KCl	% by Wt 6	6
PHPA	ppb 0.9	0.7
Sulphides	ppm 0	0

PRODUCTS USED LAST 24 HRS

Products	Size	Amt
DUOTEC	25 KG BG	9
CAUSTIC SODA (DRY)	25 KG DM	2
ANTIFOAM A	5 GA CN	7
POLYPAC UL	25 KG BG	11
M-I BAR BULK	1 MT BK	4
POTASSIUM CHLORIDE	1 MT BG	4
LEAD MUD ENGINEER	1 EA	1
ZINC OXIDE	25 KG BG	30
POLY PLUS DRY	25 KG BG	7

SOLIDS EQUIP	Size	Hr
VSM Thule Shake	4 x 105	18
VSM Thule Shake	4 x 105	18
VSM Thule Shake	4 x 105	18
VSM Thule Shake	3 x 105, 1x84	18
D-Sander		0
D-Silter		0

MUD PROPERTY SPECIFICATIONS

Weight	10
Viscosity	60
Filtrate	5

REMARKS AND TREATMENT

Could not build PHPA conc above 0.7 ppb due to flow handling restrictions at shakers. But cuttings well encapsulated and firm. Added 1.5 ppb Zinc Oxide to active system at 450m. Lost 325 bbl at shakers due rig inclination, header box blockage, unsheared mud etc. Added polymers direct to active to build properties. Run Garret Gas train to check for sulphides.

REMARKS

FIT: 1.7 sg. POOH and RIH with 8.5 inch bit. Drilled to 525 m. Further drilled with controlled ROP to 660 m. Circulated 2 x bottoms up. POOH for logging. DW on board: 1855 bbl.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS
Rig Up/Service		Oil Added 0	NaCl .3/.3.4	np/na Values 0.500/0.477
Drilling	12	Water Added 161	KCl 2.2/20.3	kp/ka (lb•s^n/100ft²) 2.745/2.939
Tripping	10	Mud Received 0	Low Gravity 3.3/29.8	Bit Loss (psi / %) 1163 / 52.9
Non-Productive Tim		Dumped 0	Bentonite 1./.9.	Bit HHP (hhp / HSI) 449 / 7.9
Condition Hole	2	Shakers 326	Drill Solids 2.3/20.8	Bit Jet Vel (m/s) 110
		Formation 0	Weight Material 3.2/47.4	Ann. Vel DP (m/min) 104.67
		Left in Hole 0	Chemical Conc - / .	Ann. Vel DC (m/min) 164.85
		Other 0	Inert/React 2.3141	Crit Vel DP (m/min) 132
		On Cuttings 67	Average SG 3.39	Crit Vel DC (m/min) 157
			Carb/BiCarb (m mole/L) 4/.6.3	ECD @ 660 (lb/gal) 10.95

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Jasdeep Singh	61-8-6363 8872	61-8-9325 4822	\$ 8,675.32	\$ 40,947.22



WATER-BASED MUD REPORT No. 9

Date	12/10/2004	Depth/TVD	660 m / 660 m
Spud Date	7/10/2004	Mud Type	KCl/Polymer
Water Depth	53	Activity	Wireline Logging

Operator : Bass Strait Oil Co
Report For : Chris Wilson/John Wrenn
Well Name : Moby-1
Contractor : Diamond Offshore
Report For : Sean Defritas/Paul Baker

Field/Area : Gippsland Basin
Description : Exploration
Location : VIC/P47
M-I Well No. : AU04BAS001

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA				
Bit Size	8.5 in Smith	Surface	Hole 293.9	Pump Make	OILWELL 1700PT	NATIONAL 12P-16C		
Nozzles	1/32"			Pump Size	6.5 X 12.in	6.5 X 12.in		
Drill Pipe Size	Length 5 in m	Intermediate	Active Pits 506.1	Pump Cap	gal/stk	gal/stk		
Drill Pipe Size	Length 5 in m	Intermediate	Total Circulating Vol 506.1	Pump stk/min	65@97%	67@97%		
Drill Collar Size	Length 6.5 in m	Production or Liner	In Storage 20	Flow Rate	gal/min			
				Bottoms Up				
				Total Circ Time				
				Circulating Pressure				
MUD PROPERTIES								
Sample From		Pit 3@19:30		PRODUCTS USED LAST 24 HRS				
Flow Line Temp	°F			Products	Size	Amt		
Depth/TVD	m	660/660		M-I BAR BULK	1 MT BK	4		
Mud Weight	lb/gal	10.1@80°F		LEAD MUD ENGINEER	1 EA	1		
Funnel Viscosity	s/qt	55						
Rheology Temp	°F	80						
R600/R300		93/65						
R200/R100		53/37						
R6/R3		9/6						
PV	cP	28						
YP	lb/100ft²	37						
10s/10m/30m Gel	lb/100ft²	7/13/16						
API Fluid Loss	cc/30 min	5						
HTHP FL Temp	cc/30 min	-@-°F						
Cake API/HTHP	1/32"	1/-						
Solids	%Vol	10						
Oil/Water	%Vol	/90						
Sand	%Vol	1.0						
MBT	lb/bbl	10						
pH		9						
Alkal Mud (Pm)		0.15						
Pf/Mf		0.05/0.7						
Chlorides	mg/l	37500						
Hardness Ca	mg/l	320						
KCl	% by Wt	6						
PHPA	ppb	0.9						
Sulphides	ppm	0						
REMARKS AND TREATMENT								
Matched Barite & Gel bulk figures with Ballast control figures.				REMARKS				
				Completed POOH. Running wireline logging.				
TIME DISTR		MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS			
Rig Up/Service		Oil Added	NaCl	.3/ 4.1	np/na Values			
Drilling		Water Added	KCl	2.2/ 20.1	kp/ka (lb•s^n/100ft²)			
Tripping	2	Mud Received	Low Gravity	4.5/ 41.1	Bit Loss (psi / %)			
Non-Productive Tim		On Cuttings	Bentonite	1.1/ 10.	Bit HHP (hhp / HSI)			
Wireline Logs	22	Dumped	Drill Solids	3.4/ 31.1	Bit Jet Vel (m/s)			
		Shakers	Weight Material	2.9/ 43.3	Ann. Vel DP (m/min)			
		Formation	Chemical Conc	- / .	Ann. Vel DC (m/min)			
		Left in Hole	Inert/React	3.1114	Crit Vel DP (m/min)			
		Other	Average SG	3.23	Crit Vel DC (m/min)			
			Carb/BiCarb (m mole/L)	1 / 5.				
M-I ENGR / PHONE			WAREHOUSE PHONE		DAILY COST	CUMULATIVE COST		
Jasdeep Singh			61-8-6363 8872		\$ 1,834.00	\$ 42,781.22		

**WATER-BASED MUD REPORT No. 10**

Date	13/10/2004	Depth/TVD	660 m / 660 m
Spud Date	7/10/2004	Mud Type	KCl/Polymer
Water Depth	53	Activity	Wireline Logging

Operator : Bass Strait Oil Co
Report For : Chris Wilson/John Wrenn
Well Name : Moby-1
Contractor : Diamond Offshore
Report For : Sean Defritas/Paul Baker

Field/Area : Gippsland Basin
Description : Exploration
Location : VIC/P47
M-I Well No. : AU04BAS001

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size	8.5 in Smith	Surface	Hole 293.9	Pump Make	OILWELL 1700PT	NATIONAL 12P-16C
Nozzles	1/32"			Pump Size	6.5 X 12.in	6.5 X 12.in
Drill Pipe Size	Length 5 in m	Intermediate	Active Pits 506.1	Pump Cap	gal/stk	gal/stk
Drill Pipe Size	Length 5 in m	Intermediate	Total Circulating Vol 506.1	Pump stk/min	65@97%	67@97%
Drill Collar Size	Length 6.5 in m	Production or Liner	In Storage 20	Flow Rate	gal/min	
Bottoms Up				Total Circ Time		
Circulating Pressure						
MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From		Pit 3@19:30		Products	Size	Amt
Flow Line Temp	°F			LEAD MUD ENGINEER	1 EA	1
Depth/TVD	m	660/660		M-I BAR	25 KG BG	80
Mud Weight	lb/gal	10.1@76°F				
Funnel Viscosity	s/qt	57				
Rheology Temp	°F	76				
R600/R300		88/61				
R200/R100		50/34				
R6/R3		8/6				
PV	cP	27				
YP	lb/100ft²	34				
10s/10m/30m Gel	lb/100ft²	7/11/14				
API Fluid Loss	cc/30 min	5				
HTHP FL Temp	cc/30 min	-@-°F				
Cake API/HTHP	1/32"	1/-				
Solids	%Vol	10				
Oil/Water	%Vol	/90				
Sand	%Vol	1.5				
MBT	lb/bbl	10				
pH		9				
Alkal Mud (Pm)		.15				
Pf/Mf		.08/.68				
Chlorides	mg/l	37000				
Hardness Ca	mg/l	280				
KCl	% by Wt	6				
PHPA	ppb	0.9				
Sulphides	ppm	0				
REMARKS AND TREATMENT				REMARKS		
Adjusted Antifoam & MI-Bar sacks inventory.				Well under wireline logging. Run#1: DLL-MLL-ZDL-CN-SL-MAC Run#2: RCI Run#3: VSP Run#4: SWC		
TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)		SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service		Oil Added	0	NaCl .3/.3.9	np/na Values	
Drilling		Water Added	0	KCl 2.2/20.1	kp/ka (lb•s^n/100ft²)	
Tripping		Mud Received	0	Low Gravity 4.5/41.2	Bit Loss (psi / %)	
Non-Productive Tim		On Cuttings	0	Bentonite 1.1/10.	Bit HHP (hhp / HSI)	
Wireline Logs	24	Dumped	0	Drill Solids 3.4/31.2	Bit Jet Vel (m/s)	
		Shakers	0	Weight Material 3/.43.4	Ann. Vel DP (m/min)	
		Formation	0	Chemical Conc - / .	Ann. Vel DC (m/min)	
		Left in Hole	0	Inert/React 3.1225	Crit Vel DP (m/min)	
		Other	0	Average SG 3.23	Crit Vel DC (m/min)	
				Carb/BiCarb (m mole/L) 1.6/.8.		
M-I ENGR / PHONE			RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Jasdeep Singh			61-8-6363 8872	61-8-9325 4822	\$ 1,221.60	\$ 44,002.82

MUD PROPERTY SPECIFICATIONS

Weight	10
Viscosity	60
Filtrate	5



WATER-BASED MUD REPORT No. 11

Date	14/10/2004	Depth/TVD	660 m / 660 m
Spud Date	7/10/2004	Mud Type	KCl/Polymer
Water Depth	53	Activity	WOC

Operator : Bass Strait Oil Co
Report For : Chris Wilson/John Wrenn
Well Name : Moby-1
Contractor : Diamond Offshore
Report For : Sean Defritas/Ray Breaud

Field/Area : Gippsland Basin
Description : Exploration
Location : VIC/P47
M-I Well No. : AU04BAS001

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size	8.5 in Smith	Surface	Hole 293.9	Pump Make	OILWELL 1700PT	NATIONAL 12P-16C
Nozzles	1/32"			Pump Size	6.5 X 12.in	6.5 X 12.in
Drill Pipe Size	Length in m	Intermediate	Active Pits .1	Pump Cap	gal/stk	gal/stk
Drill Pipe Size	Length in m	Intermediate	Total Circulating Vol .1	Pump stk/min	65@97%	67@97%
Drill Collar Size	Length in m	Production or Liner	In Storage	Flow Rate	gal/min	
				Bottoms Up		
				Total Circ Time		
				Circulating Pressure		
MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From		Pit 3@06:35		Products	Size	Amt
Flow Line Temp	°F	80		DUOTEC	25 KG BG	4
Depth/TVD	m	660/660		OS-1	25 KG BG	3
Mud Weight	lb/gal	10.1@80°F		CAUSTIC SODA (DRY)	25 KG DM	1
Funnel Viscosity	s/qt	55		LEAD MUD ENGINEER	1 EA	1
Rheology Temp	°F	80		GLUTE 25	25 LT CN	7
R600/R300		76/52				
R200/R100		42/29				
R6/R3		6/4				
PV	cP	24				
YP	lb/100ft²	28				
10s/10m/30m Gel	lb/100ft²	5/9/14				
API Fluid Loss	cc/30 min	5.2				
HTHP FL Temp	cc/30 min	-@°F				
Cake API/HTHP	1/32"	1/-				
Solids	%Vol	10				
Oil/Water	%Vol	/90				
Sand	%Vol	1.5				
MBT	lb/bbl	10				
pH		9.5				
Alkal Mud (Pm)		0.6				
Pf/Mf		0.3/1				
Chlorides	mg/l	35000				
Hardness Ca	mg/l	280				
KCl	% by Wt	5.5				
PHPA	ppb	0.9				
Sulphides	ppm	0				
REMARKS AND TREATMENT				REMARKS		
Treated mud left in open hole and in the casing with 800 ppm Glute25 as Biocide and 0.25 ppb OS-1 to remove dissolved oxygen. Pumped 60 bbl of HiVis pill below second cement plug. Treated sea water left in casing above cement retainer with 1000 ppm Glute25. DW left on board: 1250 bbl.				Completed wireline logging. Run in hole with cement stringer and placed First cmt plug at bottom & second at last casing shoe as per program. WOC. Tested second cement plug for integrity. OK. Set cement retainer and set third cement plug. WOC.		
TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service		Oil Added	0	NaCl	.3/.4.2	np/na Values
Drilling		Water Added	0	KCl	2./.18.3	kp/ka (lb•s^n/100ft²)
Tripping		Mud Received	0	Low Gravity	4.7/.43.	Bit Loss (psi / %)
Non-Productive Tim		On Cuttings	0	Bentonite	1.1/ 10.	Bit HHP (hhp / HSI)
Cementing	24	Dumped	711	Drill Solids	3.6/ 33.	Bit Jet Vel (m/s)
		Shakers	0	Weight Material	2.9/ 43.2	Ann. Vel DP (m/min)
		Formation	0	Chemical Conc	- / .	Ann. Vel DC (m/min)
		Left in Hole	0	Inert/React	3.2975	Crit Vel DP (m/min)
		Other	0	Average SG	3.21	Crit Vel DC (m/min)
				Carb/BiCarb (m mole/L)	6/.9.5	
M-I ENGR / PHONE			WAREHOUSE PHONE		DAILY COST	CUMULATIVE COST
Jasdeep Singh			61-8-6363 8872		\$ 2,075.89	\$ 46,078.71

APPENDIX 18

DRILLING DATA

(By IDS)



Bass Strait Oil Company Limited

Well : Moby-1

Rig : Ocean Patriot

Drilling Data Appendix

Part 1 : Well Summary

- Well Overview
- Summary Sheet
- Well History
- Phase Summary

Well Summary

Well Objective :

The primary objectives of the well are to test a seismic amplitude anomaly at the top of the Gurnard formation and determine reservoir quality of the Gurnard and underlying Latrobe group formations.

Country :

Australia

Permit :

Vic / P-47

Well :

Moby-1

Well Type :

EXPLORATION

Operating Company :

Bass Strait Oil Company Limited

Rig :

Ocean Patriot

Latitude : 38 Deg 01 Min 44.25 Sec**Longitude :** 148 Deg 30 Min 27.40 Sec**UTM North :** 5789884.86**UTM East :** 632316.41**DFE above MSL :** 21.5m**Water Depth :** 53.0m**Planned TD :** 625.0m**Actual TD :** 660.0m

On Location Date / Time : 05 Oct 2004 / 02:45**Spud Date / Time :** 07 Oct 2004 / 16:45**TD Reached Date / Time :** 11 Oct 2004 / 20:30**Rig Released Date / Time :** 17 Oct 2004 / 13:00**Total Days Spud / Total Depth :** 9.84**Total Days on Operations :** 12.43**Total Days Budgeted :** 8.23

Party	Working Interest Stake	Comment
Bass Strait Oil Company Ltd.	40%	
Moby Oil and Gas Limited	35%	
Eagle Bay Resources NL	25%	

Wellname : Moby-1

Drilling Co. :

Rig : Ocean Patriot

DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Time : 16:45

Release Time : 13:00

Well History

Well: Moby-1

#	Date	Depth	24 Hour Summary
1	05 Oct 2004	0m	Ran anchors, ballasted down rig and prepared TGB
2	06 Oct 2004	0m	Waiting on weather, anchor handling, re-running anchors to correct rig heading.
3	07 Oct 2004	101.0m	Completed anchor handling, ballasted down rig, ran TGB, drilled 36" hole to section TD, ran 30" casing, rigged up to cement 30" casing.
4	08 Oct 2004	325.0m	Cemented 30" casing, made up 17 1/2" BHA, drilled to TD in 17 1/2" hole, handled 17 1/2" BHA, rigged up to run 13 3/8" casing.
5	09 Oct 2004	325.0m	Ran 13 3/8" casing, landed out 18 3/4" wellhead, cemented 13 3/8" casing, began running BOP and riser.
6	10 Oct 2004	328.0m	Ran BOP stack and riser, made up 12 1/4" BHA, ran in the hole, drilled out shoe, conducted FIT.
7	11 Oct 2004	660.0m	Pulled out of the hole and laid down 12 1/4" BHA, made up 8 1/2" BHA, ran in the hole, drilled to TD in 8 1/2" hole and circulated hole clean. Began pulling out of the hole.
8	12 Oct 2004	660.0m	Pulled out of the hole with 8 1/2" BHA and racked back same, rigged up wireline equipment, ran wireline logs.
9	13 Oct 2004	660.0m	Ran wireline logs, (RCI, VSP and Side Wall Cores), rigged down wireline and ran into the hole with 2 7/8" cement stinger.
10	14 Oct 2004	660.0m	Set cement plugs 1 and 2. Set cement retainer and cement plug 3. Ran in the hole to retrieve wear bushing from wellhead.
11	15 Oct 2004	660.0m	Retrieved wear bushing, began pulling riser and BOP, unlatched BOP, waited on weather, continued pulling riser and BOP.
12	16 Oct 2004	660.0m	Completed pulling BOP and riser, cut casing and retrieved PGB and TGB, deballasted rig while commencing anchor handling.
13	17 Oct 2004	660.0m	Completed anchor handling operations, Rig handed over from BSOC to Santos @ 13:00 hrs.

Part 2 : Drilling Data

- Bit Record
- BHA Record
- Mud Record
- Survey Data

Wellname : Moby-1

Drilling Co. :

Rig : Ocean Patriot

DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Time: 16:45

Release Time: 13:00

Bit Record

Well: Moby-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
07 Oct 2004	1-1-1	1	26.00	66330	Smith	DSJC	1 x 21 3 x 22	75.0	101.0	26	1.2	1050.00	1100.00	7.70	59.00	8.70	1.452	21.67	1	1	NO	A	E	I	NO	TD
08 Oct 2004	1-1-5	2	17.50	MR3867	Smith	XR+IV	1 x 22 3 x 20	101.0	325.0	224	4.3	1950.00	1100.00	6.60	140.00	8.70	1.292	52.09	1	1	NO	A	E	I	NO	TD
10 Oct 2004	2-1-5	3	12.25	MJ5976	Smith	SVH	3 x 20	325.0	328.0	3	1.2	860.00	650.00	7.70	70.00	10.00	0.92	2.50	1	1	NO	A	E	I	NO	TD
11 Oct 2004	4-1-7	4	8.50	MM8537	Smith	MF04PS	3 x 16	328.0	660.0	332	9.4	1900.00	650.00	11.00	140.00	10.00	0.589	35.32	1	1	CT	M1	E	I	NO	TD

Wellname : Moby-1

Drilling Co. :

Rig : Ocean Patriot

DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

Spud Time: 16:45

Release Time: 13:00

BHA Record

#	Date-in	Length [m]	Weight [klb]	Weight Blw/Jar [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	07 Oct 2004	123.4	145.0	145.0	145.0	145.0	145.0	3	3	3	26" bit with 36" hole opener, Anderdrift, 9 1/2" DC's, 17 1/2" string stab., 8" DC's, 5" HWDP
2	08 Oct 2004	203.7	170.0	170.0	170.0	170.0	170.0	3	3	3	17 1/2" bit, float sub, 9" Anderdrift, 2 x 9 1/2" DCs, 17 1/2" string stabilizer, 3x 8" DCs, 8" jar, 6 x 5" HWDP.
3	10 Oct 2004	202.6	155.0	170.0	170.0	170.0	170.0	3	2	1	12 1/4" bit, bit sub, 9 1/2" Anderdrift, 3 x 9 1/2" DCs, 5 x 8" DCs, 8" jar, 12 x 5" HWDP
4	11 Oct 2004	248.9	40.0	190.0	190.0	190.0	190.0	4	2	2	8 1/2" bit, bit sub/float, 7" Anderdrift, NMDC, 12 x 6 1/2" DCs, 8 1/2" string stabilizer, 6 1/2" jar, 12 x 5" HWDP.

Wellname : Moby-1

Drilling Co. :

Rig : Ocean Patriot

DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Time: 16:45

Release Time: 13:00

Mud Recap

Well: Moby-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 [\$]
3	07 Oct 2004 - 22:00	Hi vis sweeps	101.0	54.0	8.70	120	19	22	20 / 45	14.0	0	5	0	23	9.5	1700.0	80.0	0	3577
4	08 Oct 2004 - 18:00	Hi vis sweeps	325.0	12.8	8.70	120	30	33	43 / 67	11.2	0	8	0	24	9.5	800.0	40.0	0	3154
5	09 Oct 2004 - 19:00	Hi vis sweeps	325.0	12.8	8.70	100	30	30	40 / 60	12.0	0	8	0	25	9.5	800.0	80.0	0	3154
6	10 Oct 2004 - 22:30	6% KCL PHPA	328.0	12.8	10.00	56	26	29	6 / 13	5.0	0	8	0	4	9.3	30000.0	240.0	6	16908
7	11 Oct 2004 - 21:00	6% KCL PHPA	628.0	35.0	10.00	55	24	34	6 / 13	5.0	0	9	0	9	9.5	36000.0	260.0	6	8808
8	12 Oct 2004 - 19:30	6% KCL PHPA	660.0	26.7	10.10	55	28	37	7 / 13	5.0	0	10	0	10	9	37500.0	320.0	6	1834
9	13 Oct 2004 - 19:30	6% KCL PHPA	660.0	24.4	10.10	57	27	34	7 / 11	5.0	0	10	0	10	9	37000.0	280.0	6	0
10	14 Oct 2004 - 06:35	6% KCL PHPA	660.0	26.7	10.10	55	24	28	5 / 9	5.2	0	10	0	10	9.5	35000.0	280.0	5.5	2076

Wellname : Moby-1

Drilling Co. :

Rig : Ocean Patriot

DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Time : 16:45

Release Time : 13:00

Survey

Well: Moby-1

MD [m]	TVD [m]	INCL [deg]	CORR. AZ [deg]	DOGLEG [deg/30m]	Mag Dec: 0		Sidetrack # 0	
					'V' SECT [m]	N/S [m]	E/W [m]	TOOLTYPE
0	0	0	0	0	0	0	0	
74.50	74.5	0	0	0	0	0	0	ems
321.76	321.8	0	0	0	0	0	0	ems
327.93	327.9	0.39	145.85	1.89	-0.02	0	0.01	ems
356.58	356.6	0.37	159.98	0.10	-0.19	0	0.10	ems
385.26	385.3	0.52	174.11	0.19	-0.40	0	0.14	ems
413.91	413.9	0.50	188.24	0.13	-0.66	0	0.14	ems
442.66	442.7	0.36	202.37	0.19	-0.87	0	0.09	ems
471.39	471.4	0.39	216.49	0.10	-1.03	0	-0.01	ems
500.19	500.2	0.46	30.62	0.88	-1.01	0	-0.01	ems
528.93	528.9	0.54	244.75	1.00	-0.97	0	-0.07	ems
557.62	557.6	0.69	258.88	0.22	-1.06	0	-0.36	ems
586.24	586.2	0.60	273.01	0.19	-1.08	0	-0.68	ems
614.91	614.9	0.68	287.14	0.18	-1.03	0	-1.00	ems
643.58	643.6	0.79	301.27	0.22	-0.87	0	-1.33	ems
654.70	654.7	1.01	315.40	0.84	-0.76	0	-1.46	ems
660.00	660.0	1.01	315.40	0	-0.70	0	-1.53	ems

Wellname : Moby-1

Drilling Co. :

Rig : Ocean Patriot

DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

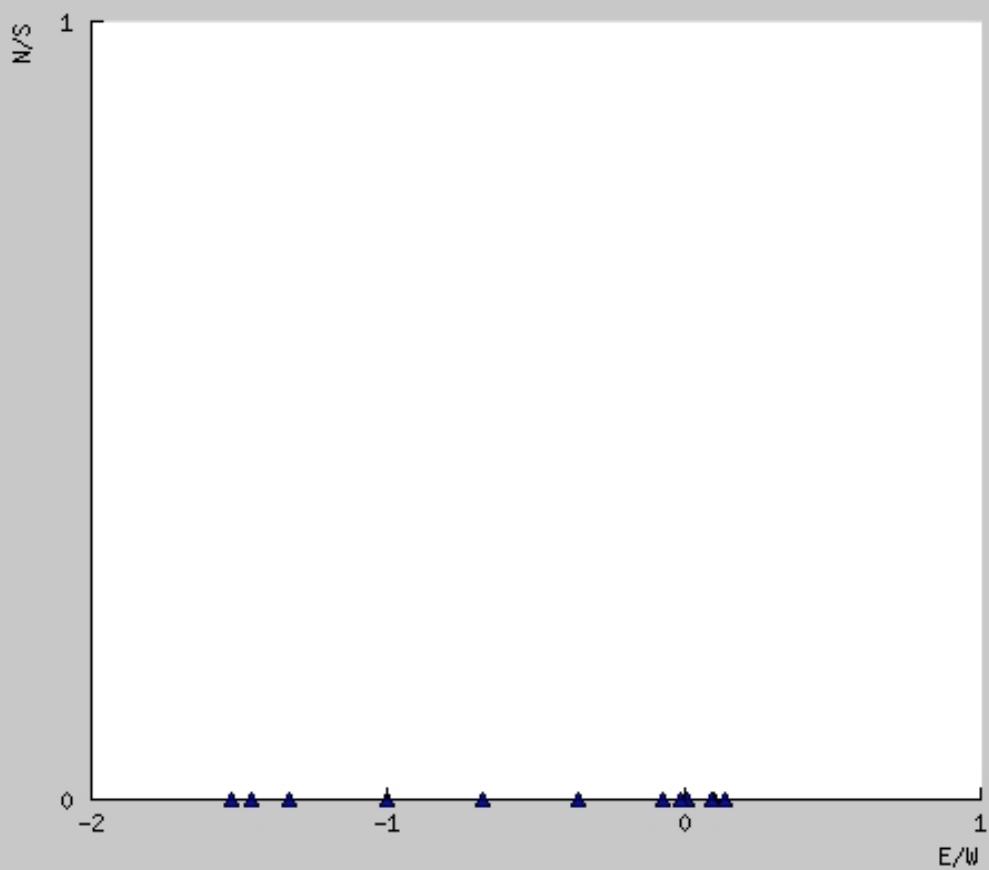
Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Time : 16:45

Release Time : 13:00

Plan View (Moby-1)



IDSDataNet - Created On 07 Feb 2005 06:41am

Wellname : Moby-1

Drilling Co. :

Rig : Ocean Patriot

DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

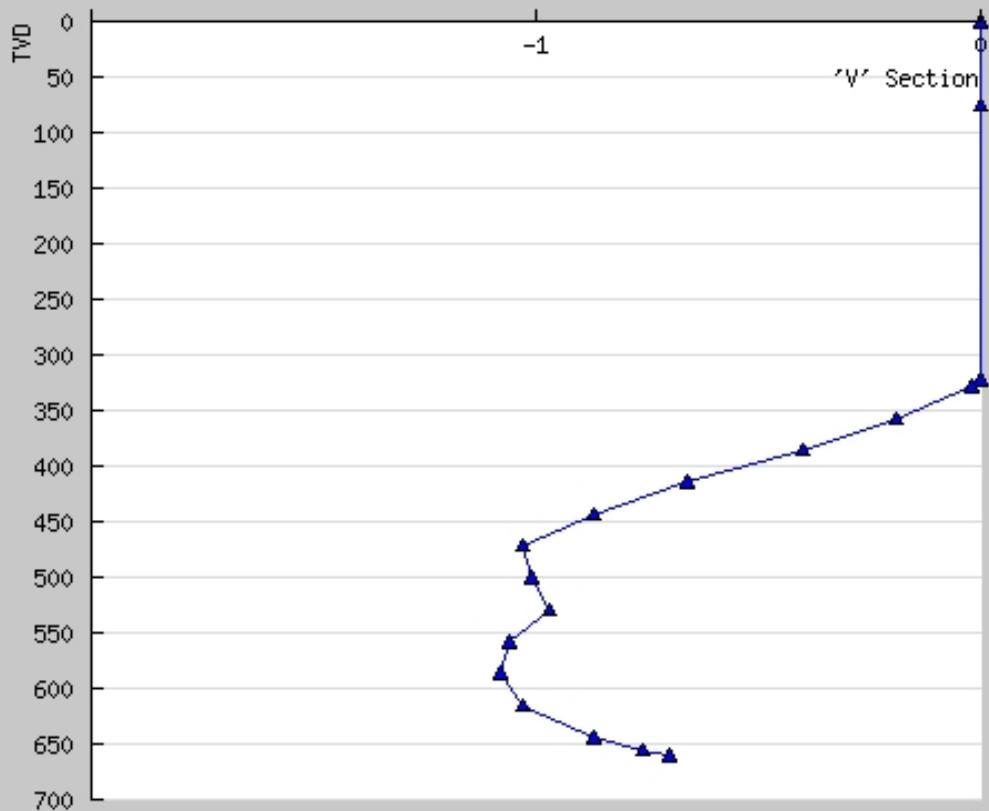
Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Time : 16:45

Release Time : 13:00

V Section (Moby-1)



IDSDataNet - Created On 07 Feb 2005 06:41am

Part 3 : Time Analysis Data

- Time Overview
- Trouble Time Analysis

DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

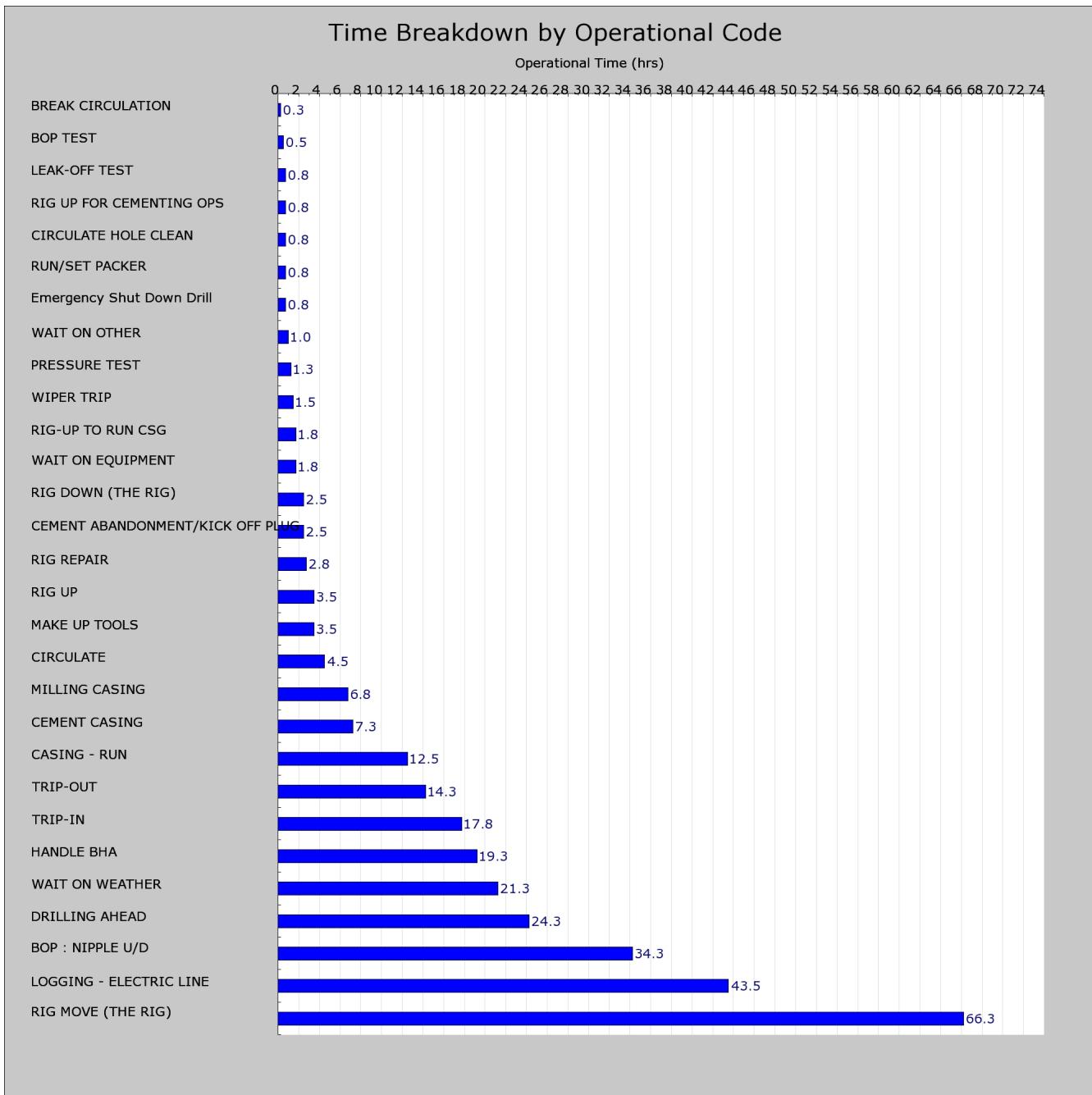
Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Time : 16:45

Release Time : 13:00

Time Analysis Breakdown



DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

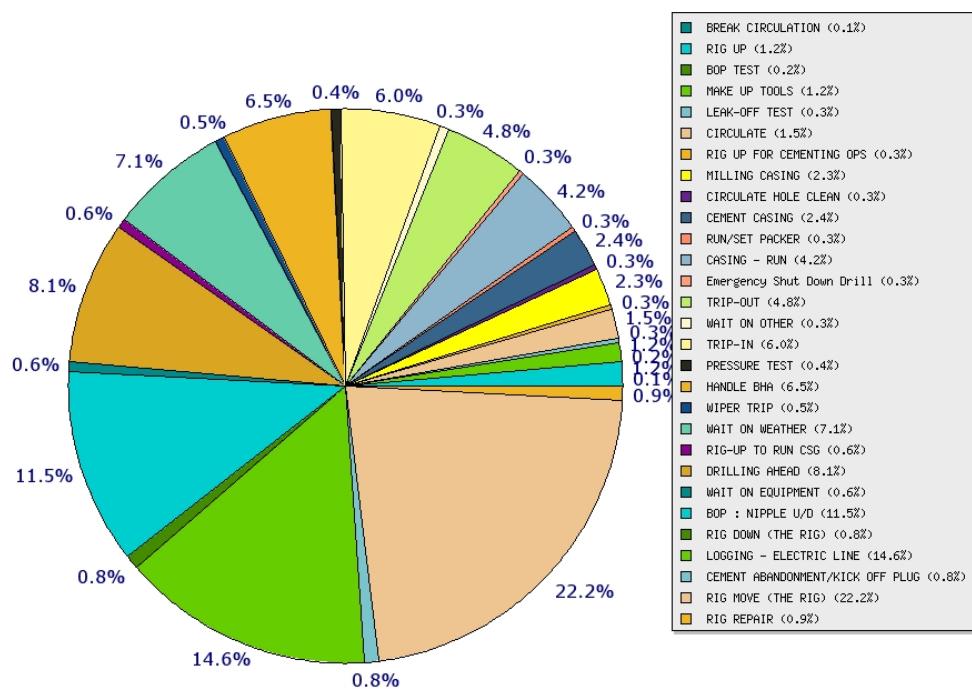
Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Time : 16:45

Release Time : 13:00

Time Analysis by Operational Code (% of 298.25 hrs)



Wellname : Moby-1

Drilling Co. :

Rig : Ocean Patriot

DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

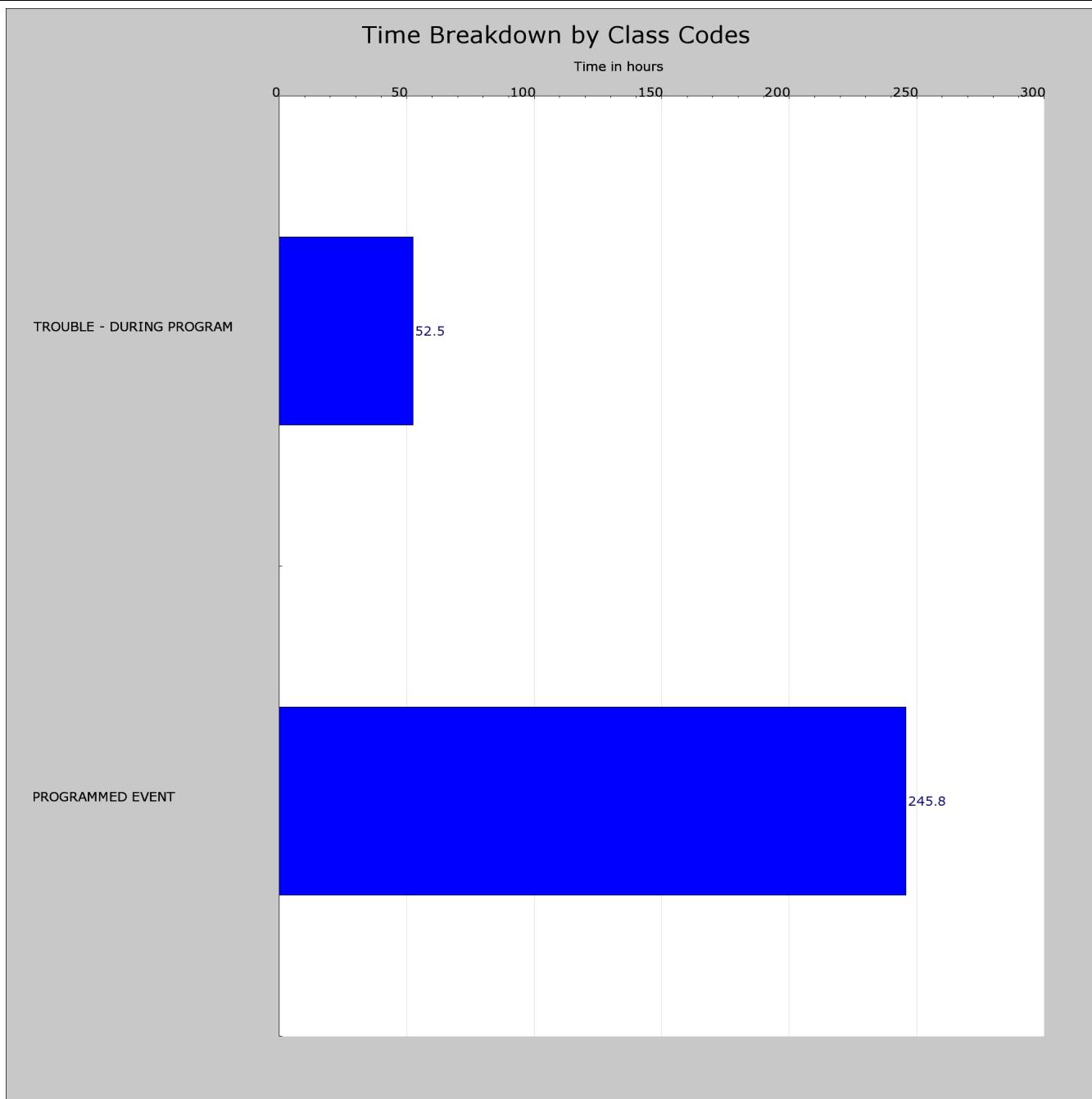
Release Date : 17 Oct 2004

Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Time : 16:45

Release Time : 13:00



Wellname : Moby-1

Drilling Co. :

Rig : Ocean Patriot

DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

Water Depth : 53.0m

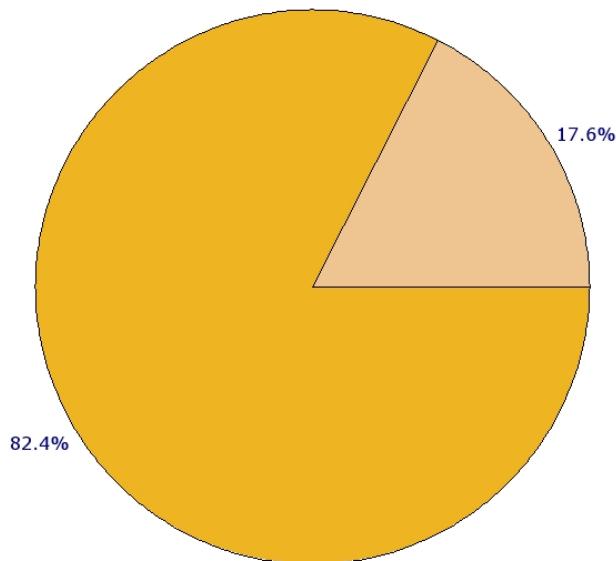
Long : 148 Deg 30 Min 27.40 Sec

Spud Time : 16:45

Release Time : 13:00

Time Analysis by Class Codes (% of 298.25 hrs)

TROUBLE - DURING PROGRAM (17.6%)
PROGRAMMED EVENT (82.4%)



DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

Water Depth : 53.0m

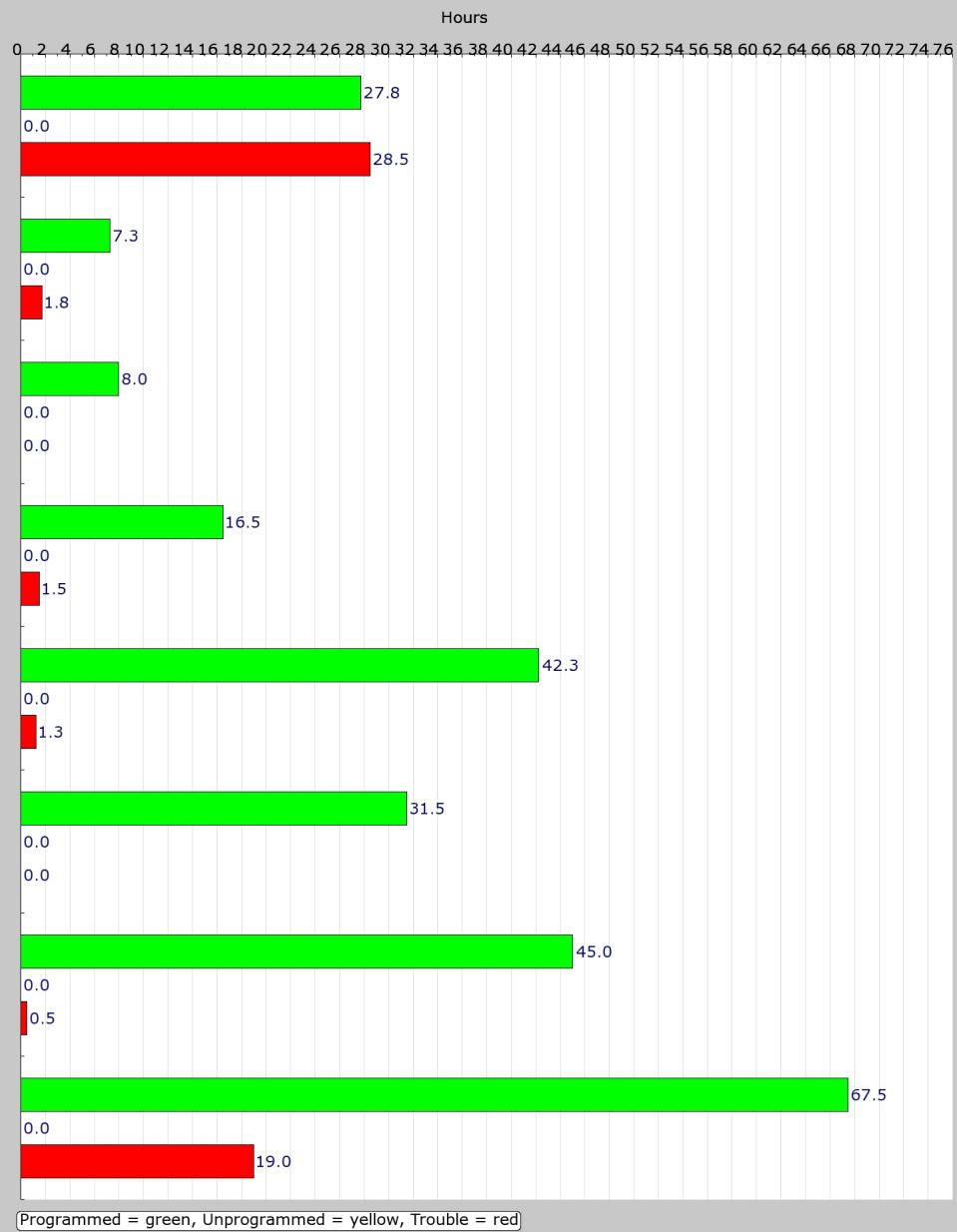
Long : 148 Deg 30 Min 27.40 Sec

Spud Time : 16:45

Release Time : 13:00

Time Breakdown by Phase

Programmed, Trouble, and Unprogrammed Phase per hours



Total Time on Operations : 298.25 hrs

Total Productive Time : 245.75 hrs

Total Lost Time : 52.5 hrs

Total Unprogrammed Time : 0 hrs

Wellname : Moby-1

Drilling Co. :

Rig : Ocean Patriot

DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

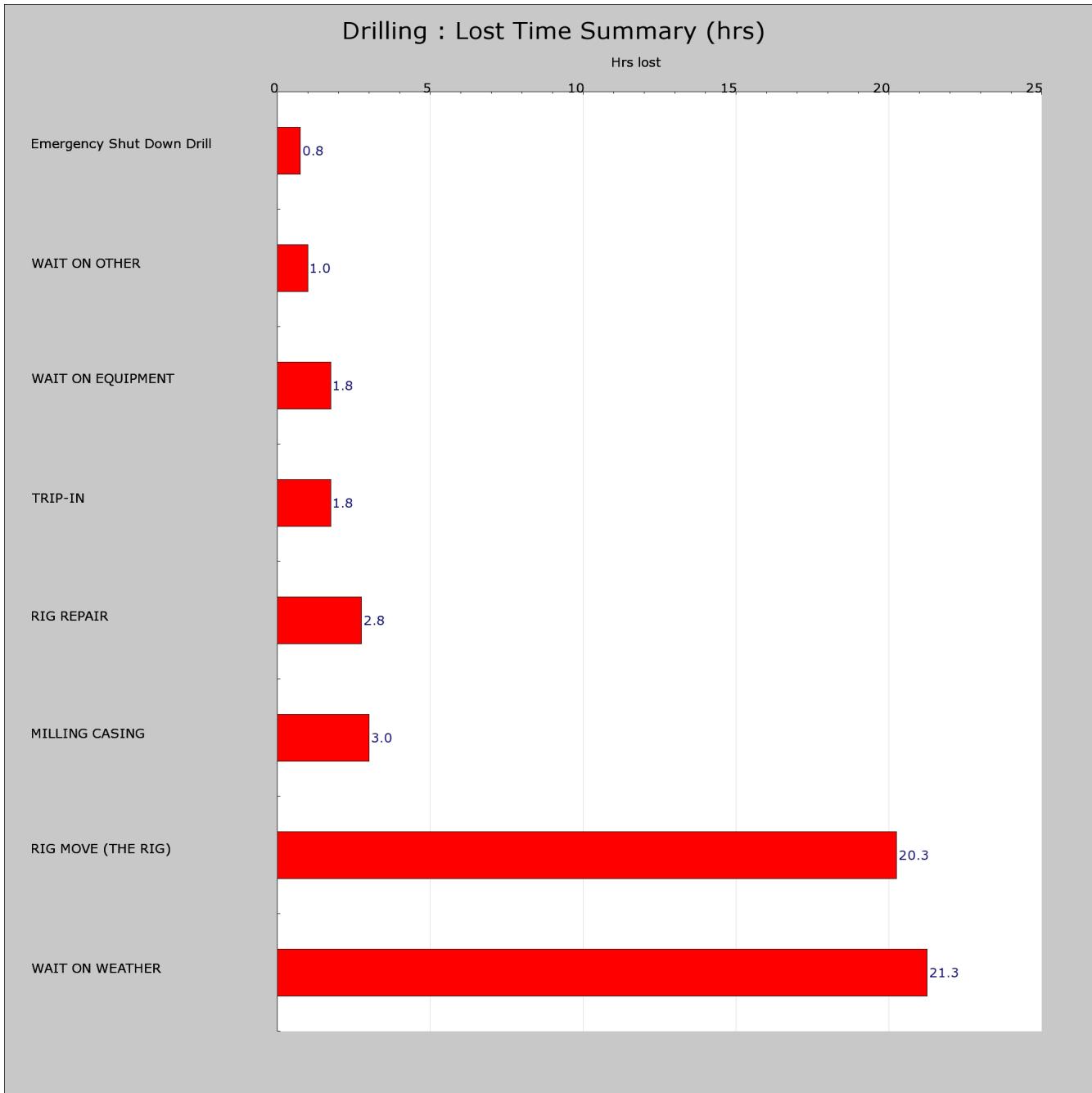
Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Time : 16:45

Release Time : 13:00

Trouble



Wellname : Moby-1

Drilling Co. :

Rig : Ocean Patriot

DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

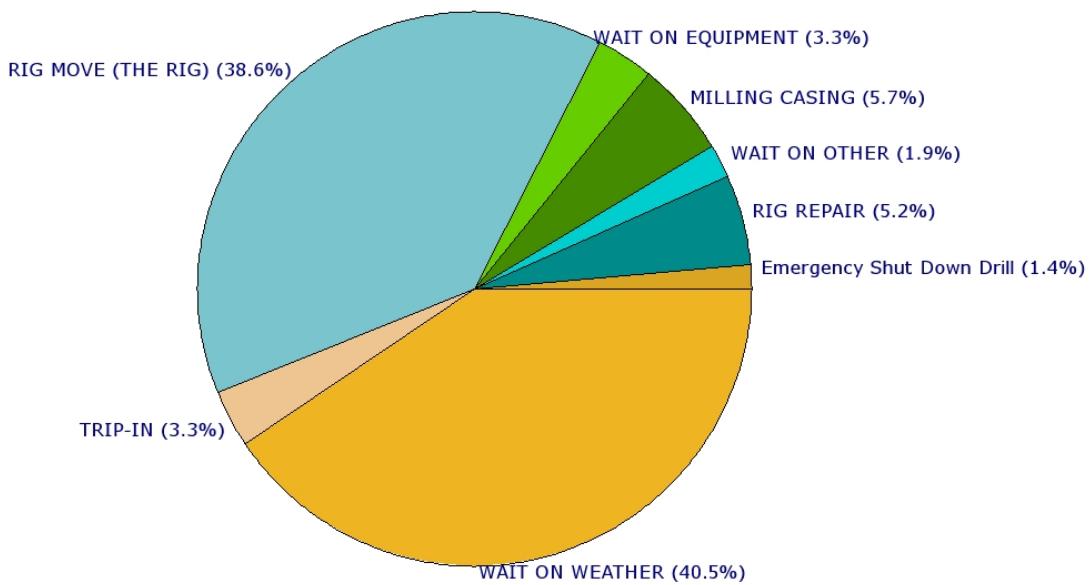
Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Time : 16:45

Release Time : 13:00

Drilling : Lost Time Summary (% of 52.5 hrs)



DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

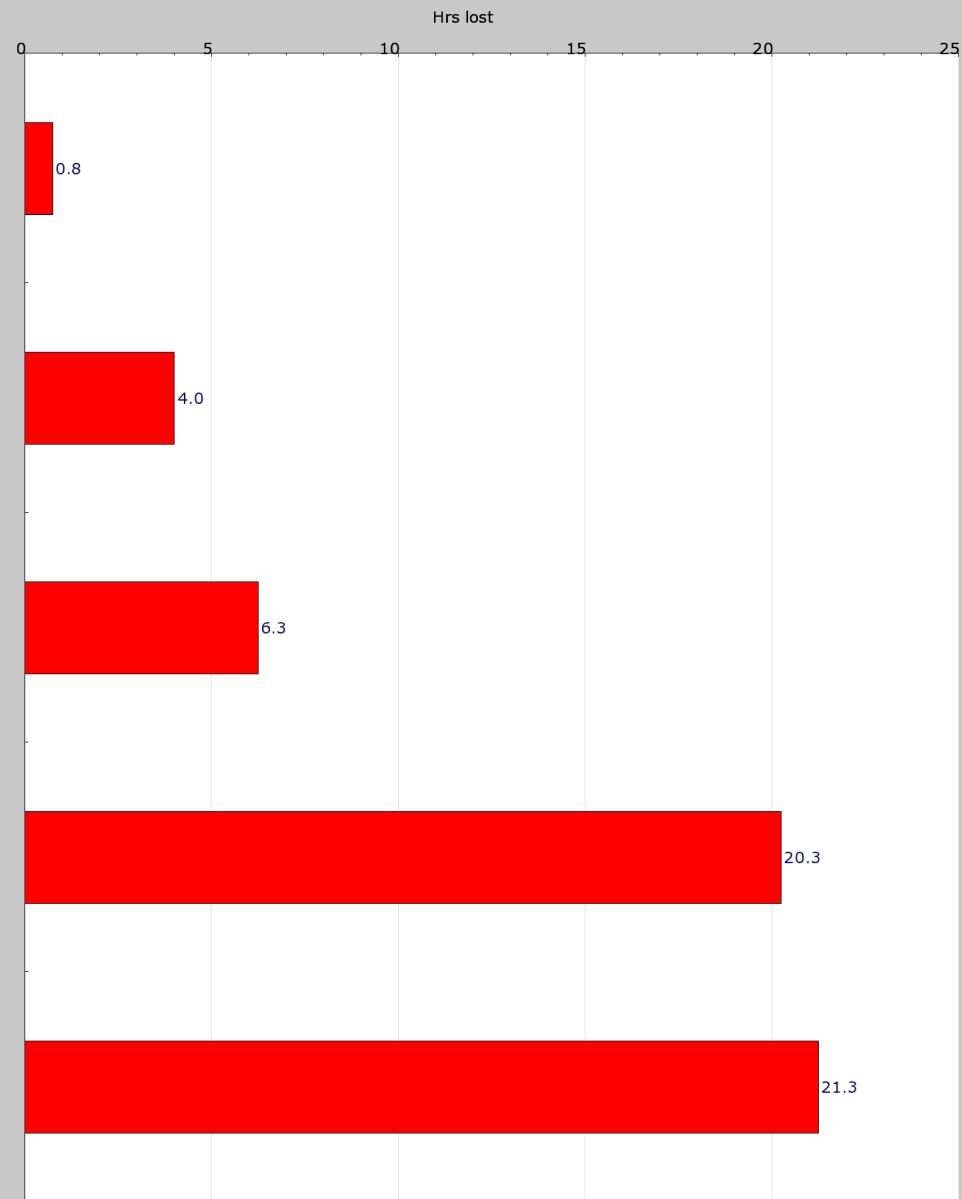
Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Time : 16:45

Release Time : 13:00

Root Cause : Lost Time Summary (hrs)



Wellname : Moby-1

Drilling Co. :

Rig : Ocean Patriot

DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

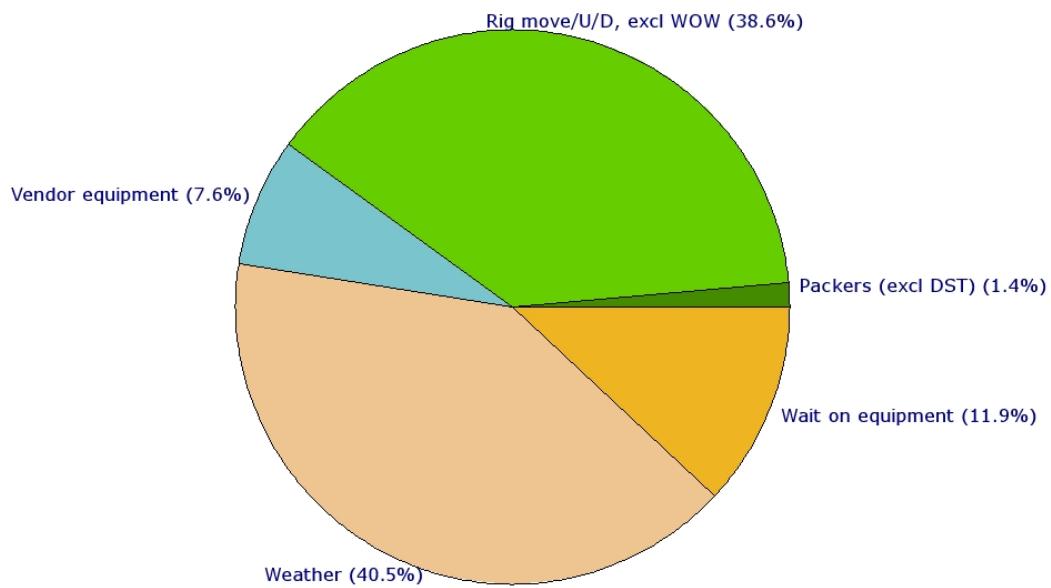
Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Time : 16:45

Release Time : 13:00

Root Cause : Lost Time Summary (% of 52.5 hrs)



DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Time : 16:45

Release Time : 13:00

Trouble During Programmed Time for Moby-1

Date	PHS	Operation	NPT	Depth	Description of Programmed Trouble Time
05 Oct 2004	PS	RIG MOVE (THE RIG)	2.25	0	Began to re-run anchors to correct rig heading from 250deg to 270deg as required by comms #8: PCC passed to boat @ 16:00, Off bottom @ 16:25, On bottom @ 17:33, PCC to rig 18:10. NOTE: 2 hours 10 minutes re-running primary anchors to correct rig heading
05 Oct 2004	PS	WAIT ON WEATHER	3	0	Anchor handling shut down due to adverse weather conditions: Wind = 40kn, Sea = 3m, Swell = 3m While anchor handling ongoing: Prepared TGB and placed on dolly in moonpool, picked up HWDP and racked back 5 stands in derrick, made up TGB running tool to pup joint, made up 30"running tool to 1 stand HWDP, picked up and racked back enough 5" DP for TD, picked up and racked back 9 1/2" DCs, made up 36"HO to 9 1/2" Anderdrift.
06 Oct 2004	PS	WAIT ON WEATHER	5.25	0	Wait on weather before resuming anchor handling. 00:00 Wind 40 kn, Seas 3 m, Swells 2 m 02:00 Wind 28 kn, Seas 2.5 m, Swells 2 m 04:00 Wind 20-30 kn, Seas 2.5 m, Swells 2 m 05:00 Wind 18-20 kn, Seas 1.5 m, Swells 2 m While waiting on weather, painted penetration marks on TGB, picked up and racked back double of 8" DC's and 8" jar, picked up and racked back 6 1/2" DC stands.
06 Oct 2004	PS	RIG MOVE (THE RIG)	4	0	Re-run anchor #1. PCC to boat @ 06:15, off bottom @ 06:45, on bottom @ 09:58, PCC to rig @ 10:17
06 Oct 2004	PS	RIG MOVE (THE RIG)	2.25	0	Note: Anchor recovered onto roller upside down, approximately 2.5 hrs to turn anchor over. Re-run anchor #4.
06 Oct 2004	PS	RIG MOVE (THE RIG)	2.5	0	PCC to boat @ 11:36, off bottom @ 11:57, on bottom @ 12:47, PCC to rig @ 13:40 Re-run anchor #5.
06 Oct 2004	PS	RIG MOVE (THE RIG)	3.75	0	PCC to boat @ 18:10, off bottom @ 18:29, on bottom @ 20:00, PCC to rig @ 20:20 Attempt to tension anchor #8. Anchor slipping and PCC passed to boat @ 22:20, off bottom @ 22:30, on bottom @ 23:35. Anchor still slipping.
07 Oct 2004	PS	RIG MOVE (THE RIG)	5	0	Note: 8 hours, 15 minutes spent re-running anchors. Note: While anchor handling, picked up 30"x20" casing and hung off same in PGB in moonpool. Made up running tool into TGB in moonpool and hung same in elevators ready to run. Continued to attempt to seat anchor #8, re-ran same. Cross tensioned anchors #5,8,4 and 6. Anchor #8 seated at 05:00.
07 Oct 2004	PS	RIG MOVE (THE RIG)	0.5	0	02:20 - Breaker tripped on #2 anchor at SCR. Troubleshoot same. Replaced contactor, no success. Re-positioned rig over well centre. Final Moby-1 well position, approved by rig positioning QC is: Lat: 38 deg 01' 44.25" S Long: 148 deg 30' 27.40" E Easting: 632316.41 Northing: 5789884.86 Drilling position 2.4 m from the design position on a bearing of 270.28 deg true.
07 Oct 2004	SH	WAIT ON OTHER	0.5	0	Medivac helicopter on deck, operation shut down waiting on crane.
07 Oct 2004	SH	RIG REPAIR	0.5	0	Broke circulation and tested Anderdrift tool. Trouble priming pumps and lost #3 mud pump due to electrical problem.

DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Time : 16:45

Release Time : 13:00

Trouble During Programmed Time for Moby-1

Date	PHS	Operation	NPT	Depth	Description of Programmed Trouble Time
07 Oct 2004	SH	RIG REPAIR	0.75	0	Attempted to spud well with rotation resulting in wrapping guide wire around string and power loss to Top Drive. Rectified same.
08 Oct 2004	IH	RIG REPAIR	0.75	101.0	Lost power to topdrive. Changed out 110 V breaker.
08 Oct 2004	IH	Emergency Shut Down Drill	0.75	171.0	Smoke coming from #3 mud pump A motor, shut down power, sounded fire alarms and mustered.
09 Oct 2004	IC	WAIT ON EQUIPMENT	1.25	325.0	Serviced top drive and pipe handler while waiting on Pacific Wrangler for no cross coupling.
12 Oct 2004	E1	WAIT ON OTHER	0.5	660.0	Cranes were shut down while waiting on helicopter.
14 Oct 2004	PA	TRIP-IN	0.75	660.0	Made several attempts to work packer through swedge including rocking the pipe and closing the annular. Turned pipe to the left 1/3 turn and successfully worked through.
15 Oct 2004	PA	WAIT ON EQUIPMENT	0.5	660.0	Operation (cranes) shut down due to helicopter operations.
15 Oct 2004	PA	WAIT ON WEATHER	13	660.0	Operation shut down due to adverse weather conditions: 11:00 Wind 35-40 kn, Seas 2 m, Swell 3 m. 14:00 Wind 40 kn, Seas 2 m, Swell 3 m. 16:00 Wind 30 kn, Seas 2.5 m, Swell 2.5 m. 18:00 Wind 30 kn, Seas 1.5 m, Swell 2.3 m. 20:00 Wind 30 kn, Seas 2.5 m, Swell 3 m. 23:00 Wind 30 kn, Seas 2 m, Swell 3 m. Deballasted rig to 22.5 m draft at 20:30 to lift bottom of BOP carrier above wave height. Cleaned mud pits and sand traps. Flushed all surface lines with clean sea water.
16 Oct 2004	PA	MILLING CASING	0.75	660.0	20" casing cut within 10 minutes. Observed 18 3/4" housing spin approximately 1/4 turn to the right and halt, soon after 18 3/4" housing pulled free of 30" housing and rotated with cutter. Pulled out of the hole with 18 3/4" housing and 4.94 m long, 20" cut off stub.
16 Oct 2004	PA	MILLING CASING	2.25	660.0	Re-dressed spear assembly, changing grapple and sleeve.
16 Oct 2004	PA	TRIP-IN	1	660.0	Ran in the hole with spear and cutting assembly and stabbed into 30" housing.
16 Oct 2004	PA	RIG REPAIR	0.75	660.0	Anchor winch #3 breaker tripped at SCR. Operation shut down while repair same.

DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Time : 16:45

Release Time : 13:00

Activity Report For Moby-1

Date : 05 Oct 2004						Daily Cost : \$ 189,366	Report Number : 1
Depth (m)	Phase	Clis	Op	R.C.	Hrs	Activity	
0	PS	P	RM		13.25	First anchor (#5) was down at 02:45, 5th October 2004. Rig on contract to Bass Strait Oil Company. Anchor handling ongoing with following sequence: #5: On bottom @ 02:45, PCC passed to rig @ 03:35 #1 PCC passed to boat @ 03:53, On bottom @ 04:36, PCC passed to rig @ 05:19 #4: PCC passed to boat @ 06:00, On bottom @ 06:35, PCC passed to rig @ 07:16 #8: PCC passed to boat @ 07:46, On bottom @ 08:21, PCC passed to rig @ 08:46 Secondary tow bridle passed to rig from Pacific Wrangler @ 11:20 #7: PCC passed to boat @ 12:40, On bottom @ 15:15, PCC passed to rig @ 15:48	
0	PS	TP	RM	MOB	2.25	Began to re-run anchors to correct rig heading from 250deg to 270deg as required by comms #8: PCC passed to boat @ 16:00, Off bottom @ 16:25, On bottom @ 17:33, PCC to rig 18:10. NOTE: 2 hours 10 minutes re-running primary anchors to correct rig heading	
0	PS	P	RM		2.75	Resumed anchor handling #2: PCC passed to boat @ 19:00, On bottom @ 19:20, PCC to rig @ 20:40 Rig commenced ballast down to 12m draft @ 19:40	
0	PS	TP	WOW	WEA	3	Anchor handling shut down due to adverse weather conditions: Wind = 40kn, Sea = 3m, Swell = 3m While anchor handling ongoing: Prepared TGB and placed on dolly in moonpool, picked up HWDP and racked back 5 stands in derrick, made up TGB running tool to pup joint, made up 30"running tool to 1 stand HWDP, picked up and racked back enough 5" DP for TD, picked up and racked back 9 1/2" DCs, made up 36"HO to 9 1/2" Anderdrift.	

Date : 06 Oct 2004						Daily Cost : \$ 209,753	Report Number : 2
Depth (m)	Phase	Clis	Op	R.C.	Hrs	Activity	
0	PS	TP	WOW	WEA	5.25	Wait on weather before resuming anchor handling. 00:00 Wind 40 kn, Seas 3 m, Swells 2 m 02:00 Wind 28 kn, Seas 2.5 m, Swells 2 m 04:00 Wind 20-30 kn, Seas 2.5 m, Swells 2 m 05:00 Wind 18-20 kn, Seas 1.5 m, Swells 2 m While waiting on weather, painted penetration marks on TGB, picked up and racked back double of 8" DC's and 8" jar, picked up and racked back 6 1/2" DC stands.	
0	PS	P	RM		1	Off waiting on weather. Prepare to continue running anchors.	
0	PS	TP	RM	MOB	4	Re-run anchor #1. PCC to boat @ 06:15, off bottom @ 06:45, on bottom @ 09:58, PCC to rig @ 10:17 Note: Anchor recovered onto roller upside down, approximately 2.5 hrs to turn anchor over.	
0	PS	P	RM		1.25	Run anchor #3. PCC to boat @ 10:27, on bottom @ 10:49, PCC to rig @ 11:24.	
0	PS	TP	RM	MOB	2.25	Re-run anchor #4. PCC to boat @ 11:36, off bottom @ 11:57, on bottom @ 12:47, PCC to rig @ 13:40	
0	PS	P	RM		4	Run anchor #6. PCC to boat @ 14:20, on bottom @ 14:37, anchor not holding @ 15:20, re-run @ 17:05, on bottom @ 17:24, PCC to rig @ 17:50.	
0	PS	TP	RM	MOB	2.5	Re-run anchor #5. PCC to boat @ 18:10, off bottom @ 18:29, on bottom @ 20:00, PCC to rig @ 20:20	
0	PS	TP	RM	MOB	3.75	Attempt to tension anchor #8. Anchor slipping and PCC passed to boat @ 22:20, off bottom @ 22:30, on bottom @ 23:35. Anchor still slipping. Note: 8 hours, 15 minutes spent re-running anchors. Note: While anchor handling, picked up 30"x20" casing and hung off same in PGB in moonpool. Made up running tool into TGB in moonpool and hung same in elevators ready to run.	

DFE above MSL : 21.5m	Lat : 38 Deg 01 Min 44.25 Sec	Spud Date : 07 Oct 2004	Release Date : 17 Oct 2004
Water Depth : 53.0m	Long : 148 Deg 30 Min 27.40 Sec	Spud Time : 16:45	Release Time : 13:00

Date : 07 Oct 2004						Daily Cost : \$ 169,949	Report Number : 3
Depth (m)	Phase	Clis	Op	R.C.	Hrs	Activity	
0	PS	TP	RM	MOB	5	Continued to attempt to seat anchor #8, re-ran same. Cross tensioned anchors #5,8,4 and 6. Anchor #8 seated at 05:00. 02:20 - Breaker tripped on #2 anchor at SCR. Troubleshoot same. Replaced contactor, no success.	
0	PS	TP	RM	MOB	0.5	Re-positioned rig over well centre. Final Moby-1 well position, approved by rig positioning QC is: Lat: 38 deg 01' 44.25" S Long: 148 deg 30' 27.40" E Easting: 632316.41 Northing: 5789884.86 Drilling position 2.4 m from the design position on a bearing of 270.28 deg true.	
0	PS	P	RM		4	Ballasted down to drilling draft.	
0	PS	P	RM		0.25	Move PGB with 30" casing from port to starboard in moonpool while ballasting rig.	
0	PS	P	RM		1.25	Install guide posts to PGB in moonpool while ballasting down rig.	
0	SH	P	TI		1	Ran TGB and landed at @ 75.37 m. Bulls eye reading on TGB 0.5 deg @ 270 deg True.	
0	SH	P	TO		0.75	Released TGB running tool and pulled out of the hole, laid out running tool, crossover and pup joint assembly.	
0	SH	TP	WOO	WOE	0.5	Medivac helicopter on deck, operation shut down waiting on crane.	
0	SH	P	MUT		2.25	Made up 36" BHA, ran in the hole with ROV assisting through TGB, tagged seabed at 75.37 m.	
0	SH	TP	RR	WOE	0.5	Broke circulation and tested Anderdrift tool. Trouble priming pumps and lost #3 mud pump due to electrical problem.	
0	SH	TP	RR	WOE	0.75	Attempted to spud well with rotation resulting in wrapping guide wire around string and power loss to Top Drive. Rectified same.	
101.0	SH	P	D		1	Spudded well drilling 36" hole from 75 m to 101 m pumping 50 bbl gel sweeps every 9 m.	
101.0	SH	P	CIR		0.25	Pumped 100 bbl gel sweep and displaced with 150 bbl high-vis pill.	
101.0	SH	P	HBHA		2	Pulled out of the hole from 101 m and laid out cross over, bit sub, 36" hole opener and 26" bit.	
101.0	SC	P	RC		2	Make up stinger below 30" Cameron running tool and stabbed into 30" housing in moonpool, filled casing.	
101.0	SC	P	RC		1.25	Ran in the hole with ROV assist through TGB, landed out PGB on TGB. Slope indicator 0 deg.	
101.0	SC	P	RUC		0.75	Nippled up cement line, flushed and pressure tested same to 2000 psi.	

Date : 08 Oct 2004						Daily Cost : \$ 194,834	Report Number : 4
Depth (m)	Phase	Clis	Op	R.C.	Hrs	Activity	
101.0	SC	P	CMC		0.25	Finished circulating 75 bbl seawater.	
101.0	SC	P	CMC		1	Mixed and pumped 746 sacks of cement, 158 bbl slurry at 15.8 ppg.	
101.0	SC	P	CMC		0.5	Rigged down surface equipment and released running tool.	
101.0	SC	P	TO		0.75	Pulled out of the hole with 30" running tool from 73 m.	
101.0	SC	P	RU		1.5	Picked up 18 3/4" running tool and installed cement plug launcher cross over and laid down same.	
101.0	IH	P	HBHA		1	Made up 17 1/2" BHA.	
101.0	IH	P	HBHA		0.75	Installed guide ropes to BHA and guide lines.	
101.0	IH	P	TI		1.5	Continued to make up 17 1/2" BHA and ran in the hole with same. Tagged cement at 96.7 m.	
101.0	IH	P	BKC		0.25	Broke circulation and tested Anderdrift tool at 95 m. Survey 1 deg.	
101.0	IH	TP	RR	WOE	0.75	Lost power to topdrive. Changed out 110 V breaker.	
171.0	IH	P	D		3	Drilled cement and shoe from 96.7 m to 98 m. Continued drilling to 171 m pumping 40 bbl guar gum sweeps every 15 m and 50 bbl gel sweep before every connection.	
171.0	IH	TP	ESDD	WOE	0.75	Smoke coming from #3 mud pump A motor, shut down power, sounded fire alarms and mustered.	
325.0	IH	P	D		5.5	Continued to drill from 171 m to 325 m, pumping guar gum sweeps as required. Unable to obtain	

Wellname : Moby-1

Drilling Co. :

Rig : Ocean Patriot

DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Time : 16:45

Release Time : 13:00

Date : 08 Oct 2004**Daily Cost : \$ 194,834****Report Number : 4**

					survey from Anderdrift tool.
325.0	IH	P	CIR	0.25	Pumped 100 bbl hi-vis sweep at 1100 gpm.
325.0	IH	P	WT	1.5	Conducted wiper trip to 30" casing shoe from 325 m. Took weight at 315 m, reamed down from same to bottom.
325.0	IH	P	CIR	0.5	Circulated bottoms up at 1100 gpm and displaced hole to 350 bbl hi-vis mud.
325.0	IH	P	TO	0.75	Dropped single shot survey tool and pulled out of the hole from 325 m to 203 m.
325.0	IH	P	TO	1.5	Continued to pull out of the hole with BHA from 203 m, recovering survey and jetting 30" housing on the way out of the hole. Survey 1 deg.
325.0	IC	P	MUT	1.25	Made up cement head in stand of 5" HWDP and racked same.
325.0	IC	P	RRC	0.75	Cleaned drill floor and commenced rig up of 13 3/8" casing handling equipment.

Date : 09 Oct 2004**Daily Cost : \$ 321,831****Report Number : 5**

Depth (m)	Phase	Clis	Op	R.C.	Hrs	Activity
325.0	IC	P	RRC		1	Held pre job safety meeting and reviewed JSA for running 13 3/8" casing. Rigged up to run same.
325.0	IC	P	RC		0.75	Picked up and made up 13 3/8" float equipment. Baker locked first 3 joints. Tested shoe and float equipment
325.0	IC	P	RC		0.5	Attached guide ropes to guide wires and 13 3/8" casing.
325.0	IC	P	RC		1.25	Continued to pick up and make up 13 3/8" casing and ran in the hole with same.
325.0	IC	TP	WOE	WOE	1.25	Serviced top drive and pipe handler while waiting on Pacific Wrangler for no cross coupling.
325.0	IC	P	RC		4.25	Continued to pick up and make up 13 3/8" casing and ran in the hole with same to 249m (laid out 1 damaged joint).
325.0	IC	P	RC		1.5	Made-up wellhead joint to casing. Made-up running tool and cement stinger to 18 3/4" wellhead housing.
325.0	IC	P	RC		0.5	Ran in the hole and landed out 18 3/4" wellhead. Confirmed land-out with 50klbs overpull. Bullseye reading 0.5 degrees.
325.0	IC	P	RC		0.5	Made-up cement hose and deepsea express lines.
325.0	IC	P	CMC		3	Circulated the casing with 150bbls of seawater with the cement unit. Dropped bottom plug and cement casing with 140bbls of 12.5ppg Class G lead cement and 71bbls of 15.8ppg Class G tail cement. Displaced cement with 116bbls of seawater. Bumped plugs and pressure tested casing to 2000psi. Returns observed throughout the cementing.
325.0	IC	P	CMC		1	Rigged-down cement hose and deepsea express hoses. Released wellhead running tool. Jetted wellhead whilst pulling out of the hole. Bullseye reading 0.5 degrees.
325.0	IC	P	CMC		1.5	Pulled out of the hole and laid out deepsea express equipment and wellhead running tool.
325.0	IC	P	HBHA		1	Laid out cement head stand and 17 1/2" stabilizer. Moved rig 15m off location to run BOP and riser.
325.0	IC	P	BOP		1	Rigged up to handle BOP and riser, adjusting brakes, changing bails and elevators and installing spider.
325.0	IC	P	BOP		1.25	Held pre job safety meeting with crews and made up riser double.
325.0	IC	P	BOP		1.25	Positioned BOP below rotary table, moved rig back over location to fit BOP through guide lines and nipped up riser double to BOP.
325.0	IC	P	BOP		2	Installed guidelines and pod line clamps.
325.0	IC	P	BT		0.5	Nipped up riser test plug and commenced pressure test of choke and kill lines to 300 psi for 5 minutes and 3,000 psi for 10 minutes.

Date : 10 Oct 2004**Daily Cost : \$ 226,543****Report Number : 6**

Depth (m)	Phase	Clis	Op	R.C.	Hrs	Activity
325.0	IC	P	BOP		1.25	Continued to test choke and kill lines to 300 psi for 5 minutes and 3,000 psi for 10 minutes. Changed seals on choke line to get test.
325.0	IC	P	BOP		2.25	Picked up and made up slip joint and landing joint. Attached pod hose clamps to guide lines.
325.0	IC	P	BOP		3.5	Nipped up choke, kill and booster lines.

Wellname : Moby-1

Drilling Co. :

Rig : Ocean Patriot

DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Time : 16:45

Release Time : 13:00

Date : 10 Oct 2004**Daily Cost : \$ 226,543****Report Number : 6**

325.0	IC	P	BOP	2	Attached riser tensioners
325.0	IC	P	BOP	0.5	Landed BOP and confirmed latch with 50klbs overpull. PGB slope indicator read 0 deg after landing.
325.0	IC	P	BOP	2.5	Unpinned slip joint and laid out landing joint.
325.0	IC	P	BOP	1	Installed diverter
325.0	IC	P	BOP	2	Rigged-down riser running tools
325.0	IC	P	BOP	0.5	Ran in the hole with the BOP test tool
325.0	IC	P	BOP	1	Pressure tested the wellhead connection to 300psi for 5 minutes and 3000psi for 10 minutes. Unlatched BOP test tool and function tested diverter.
325.0	IC	P	BOP	0.5	Recovered BOP test tool.
325.0	IC	P	BOP	0.5	Made-up emergency hang-off tool and racked back same.
325.0	PH	P	TI	2.5	Made-up 12 1/4" bit and ran in the hole. Washed down from 286 m and tagged top of cement at 295.5 m.
325.0	PH	P	D	1.75	Drilled plugs, cement and shoe track and cleaned out rat hole to 325 m.
328.0	PH	P	D	0.25	Drilled ahead in 12 1/4" hole from 325 m to 328 m.
328.0	PH	P	CIR	0.75	Displaced well to 10 ppg KCL mud. Displaced choke and kill lines.
328.0	PH	P	LOT	0.75	Pressure tested lines to 1,000 psi and performed FIT to 1.7 SG (14.16 ppg).
328.0	PH	P	TO	0.5	Performed flow check, well static. Pumped slug and commenced pulling out of the hole from 328 m.

Date : 11 Oct 2004**Daily Cost : \$ 257,859****Report Number : 7**

Depth (m)	Phase	Clis	Op	R.C.	Hrs	Activity
328.0	PH	P	HBHA		4.5	Continued to pull out of the hole, laying down 12 1/4" BHA. Laid down excess BHA from the derrick.
328.0	PH	P	HBHA		2.25	Picked up and made up 8 1/2" BHA.
328.0	PH	P	TI		1	Ran in the hole with 8 1/2" BHA to 321 m. Took CLF and SCR on pump #2. SCR = 220 psi @ 40 stk/min, CLF = 120 psi @ 40 stk/min.
660.0	PH	P	D		12.75	Drilled ahead in 8 1/2" hole from 328 m to 660 m, backreaming and taking Anderdrift survey every connection.
660.0	PH	P	CHC		0.75	Circulated hole clean (twice bottoms up).
660.0	PH	P	TO		1.75	Conducted flow check, well was static. Dropped multishot and pulled out of the hole from 660 m to 248 m, working string through tight sections between 612 m and 560 m, maximum overpull was 30k. Conducted flow check at the shoe, well was static. Pumped slug at the shoe.
660.0	PH	P	HBHA		1	Pulled out of the hole with BHA from 248 m.

Date : 12 Oct 2004**Daily Cost : \$ 292,682****Report Number : 8**

Depth (m)	Phase	Clis	Op	R.C.	Hrs	Activity
660.0	PH	P	HBHA		0.25	Pulled out of the hole with 8 1/2" BHA. Racked same in the derrick.
660.0	PH	P	HBHA		0.25	Retrieved EMS survey tool.
660.0	PH	P	HBHA		0.5	Continued to pull out of the hole. Laid out 8 1/2" bit and bit sub.
660.0	E1	P	RU		1	Rigged up wireline.
660.0	E1	P	LOG		2	Picked up wireline tools for run #1 (Grand SLAM).
660.0	E1	P	LOG		4	Loaded source and ran in the hole with wireline run #1 to 659 m.
660.0	E1	P	LOG		2.5	Pulled out of the hole with wireline. Removed sources and laid down tools.
660.0	E1	TP	WOO	WOE	0.5	Cranes were shut down while waiting on helicopter.
660.0	E1	P	LOG		0.5	Prepared wireline tools.
660.0	E1	P	LOG		1	Picked up wireline tools for run #2 (RCI).
660.0	E1	P	LOG		11.5	Ran in the hole with wireline and conducted logging run #2.

DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Time : 16:45

Release Time : 13:00

Date : 13 Oct 2004**Daily Cost : \$ 310,573****Report Number : 9**

Depth (m)	Phase	Cl	Op	R.C.	Hrs	Activity
660.0	E1	P	LOG		10	Continued to conduct logging run #2 (RCI).
660.0	E1	P	LOG		1	Pulled out of the hole with RCI tools and laid down same.
660.0	E1	P	LOG		1	Removed samples from RCI tools. Checked samples for H2S - none present. Picked up tools for logging run #3 (VSP).
660.0	E1	P	LOG		6	Ran in the hole with VSP tools and conducted logging run #3 from 650 m to 80 m.
660.0	E1	P	LOG		1	Pulled out of the hole with VSP tools and laid down same.
660.0	E1	P	LOG		0.75	Made up Side Wall Core tool.
660.0	E1	P	LOG		1.75	Ran in the hole with Side Wall Core tool and conducted logging run #4.
660.0	E1	P	LOG		0.5	Pulled out of the hole with Side Wall Core tool and laid down same. 25 cores recovered from 25 sampling attempts.
660.0	E1	P	RD		0.5	Rigged down wireline equipment.
660.0	PA	P	TI		1.5	Picked up and ran in the hole with 2 7/8" tubing cement stinger.

Date : 14 Oct 2004**Daily Cost : \$ 327,608****Report Number : 10**

Depth (m)	Phase	Cl	Op	R.C.	Hrs	Activity
660.0	PA	P	TI		0.5	Continued to run in the hole with 2 7/8" tubing cement stinger.
660.0	PA	P	TI		1.75	Ran in the hole with 2 7/8" tubing on 5" drill pipe to 650 m.
660.0	PA	P	CIR		0.25	Made up cement hose and circulated bottoms up. No gas.
660.0	PA	P	CMP		1	Broke circulation with cement unit, tested surface lines to 2000 psi, mixed and pumped 42.8 bbl of 15.8 ppg class G cement slurry setting plug #1 from 660 m to 505 m.
660.0	PA	P	TO		0.5	Pulled out of the hole to 490 m.
660.0	PA	P	CIR		0.5	Circulated bottoms up, dumped 5 bbl contaminated mud, and spotted 50 bbl hi-vis pill at 490 m.
660.0	PA	P	TO		0.5	Pulled out of the hole to 370 m.
660.0	PA	P	CMP		1	Made up cement hose, broke circulation with cement unit and tested surface lines to 2000 psi. Mixed and pumped 43 bbl of 15.8 ppg class G cement slurry setting plug #2 from 370 m to 270 m.
660.0	PA	P	CIR		0.5	Pulled out of the hole from 370 m to 230 m and circulated bottoms up. No cement to surface.
660.0	PA	P	TO		0.5	Pulled out of the hole from 230 m to 164 m laying out 5" drill pipe.
660.0	PA	P	TO		1.5	Continued to pull out of the hole from 164 m laying out 2 7/8" tubing.
660.0	PA	P	HBHA		3	Broke down 8 1/2" BHA from derrick. Laid out Anderdrift, NMDC, stabilizer, 12 x 6 1/2" DCs, jar and 1 joint of 5" HWDP.
660.0	PA	P	TI		1.25	Ran in the hole with open end 5" drill pipe and tagged top of cement plug #2 at 259 m with 5k weight down.
660.0	PA	P	PT		0.5	Spaced out and pressure tested casing against lower annular to 500 psi. Test OK.
660.0	PA	P	TO		1.75	Pulled out of the hole from 259 m laying out 5" drill pipe.
660.0	PA	P	TI		1	Picked up 13 3/8" cement retainer and ran in the hole to 91 m hang up depth.
660.0	PA	TP	TI	PKR	0.75	Made several attempts to work packer through swedge including rocking the pipe and closing the annular. Turned pipe to the left 1/3 turn and successfully worked through.
660.0	PA	P	SPK		0.75	Continued to run in the hole with cement retainer. Set same with 15 right-hand turns. Applied 40k down and then 40k overpull. Applied 45k down and then 45k overpull. Returned to neutral weight and released retainer from running tool with 10 right-hand turns.
660.0	PA	P	PT		0.75	Made up cement hose and broke circulation with cement unit. Tested surface lines to 1,000 psi.
660.0	PA	P	CIR		1.5	Displaced choke and kill lines and booster line to inhibited sea water. Displaced hole to inhibited sea water.
660.0	PA	P	CMP		0.5	Tested cement retainer plug to 1,000 psi with cement unit, test OK. Pumped 30 bbl of 15.8 ppg class G cement slurry, setting cement plug #3 from 160 m to 100 m.
660.0	PA	P	TO		1.75	Pulled out of the hole from 160 m laying out 5" drill pipe and 5" HWDP. Laid out cement retainer running tool and cement stand.
660.0	PA	P	TI		2	Picked up wellhead jetting tool and wear bushing retrieval tool. Ran in the hole with same to 74 m while jetting stack and wellhead. Landed out wear bushing retrieval tool with 10k down and picked up

Wellname : Moby-1

Drilling Co. :

Rig : Ocean Patriot

DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Time : 16:45

Release Time : 13:00

Date : 14 Oct 2004**Daily Cost : \$ 327,608****Report Number : 10**

with 35k overpull.

Date : 15 Oct 2004**Daily Cost : \$ 306,421****Report Number : 11**

Depth (m)	Phase	Clis	Op	R.C.	Hrs	Activity
660.0	PA	P	TO		0.5	Continued to pull out of the hole with wear bushing, running tool and jetting tool, laid out same.
660.0	PA	P	RU		1	Rigged up riser handling equipment.
660.0	PA	P	BOP		0.75	Installed diverter running tool.
660.0	PA	P	BOP		1	Nipped down diverter control lines, pulled and laid out diverter.
660.0	PA	P	BOP		0.5	Picked up riser landing joint and nipped up same to slip joint.
660.0	PA	P	BOP		0.75	Closed slip joint.
660.0	PA	P	BOP		0.5	Unlatched the BOP.
660.0	PA	P	BOP		3	Removed storm loops and nipped down choke, kill and booster lines.
660.0	PA	P	BOP		0.5	Locked and secured SDL ring.
660.0	PA	P	BOP		1	Laid out riser landing joint. Pulled slip joint.
660.0	PA	TP	WOE	WOE	0.5	Operation (cranes) shut down due to helicopter operations.
660.0	PA	P	BOP		0.5	Laid out slip joint.
660.0	PA	TP	WOW	WEA	13	Operation shut down due to adverse weather conditions: 11:00 Wind 35-40 kn, Seas 2 m, Swell 3 m. 14:00 Wind 40 kn, Seas 2 m, Swell 3 m. 16:00 Wind 30 kn, Seas 2.5 m, Swell 2.5 m. 18:00 Wind 30 kn, Seas 1.5 m, Swell 2.3 m. 20:00 Wind 30 kn, Seas 2.5 m, Swell 3 m. 23:00 Wind 30 kn, Seas 2 m, Swell 3 m. Deballasted rig to 22.5 m draft at 20:30 to lift bottom of BOP carrier above wave height. Cleaned mud pits and sand traps. Flushed all surface lines with clean sea water.
660.0	PA	P	BOP		0.5	Resumed operations, pulled BOP stack through splash zone and landed out on carrier.

Date : 16 Oct 2004**Daily Cost : \$ 298,701****Report Number : 12**

Depth (m)	Phase	Clis	Op	R.C.	Hrs	Activity
660.0	PA	P	BOP		1	Continued pulling BOP. Landed same on carrier. Removed guide wires from BOP guide posts in moon pool.
660.0	PA	P	BOP		0.5	Pulled riser double and moved BOP clear to starboard of moonpool.
660.0	PA	P	BOP		0.75	Laid out riser double.
660.0	PA	P	RD		0.75	Laid out riser handling equipment.
660.0	PA	P	TI		2	Picked up 20" x 30" spear and cutting assembly checking connection torques. Ran in the hole with same and stabbed into 18 3/4" wellhead with assistance from ROV.
660.0	PA	P	MC		0.25	Commenced cutting 20" casing at 77.39 m.
660.0	PA	TP	MC	VEQ	0.75	20" casing cut within 10 minutes. Observed 18 3/4" housing spin approximately 1/4 turn to the right and halt, soon after 18 3/4" housing pulled free of 30" housing and rotated with cutter. Pulled out of the hole with 18 3/4" housing and 4.94 m long, 20" cut off stub.
660.0	PA	TP	MC	VEQ	2.25	Re-dressed spear assembly, changing grapple and sleeve.
660.0	PA	TP	TI	VEQ	1	Ran in the hole with spear and cutting assembly and stabbed into 30" housing.
660.0	PA	P	MC		1	Cut 30" casing at 76.84 m.
660.0	PA	P	TO		1.25	Pulled 30" housing free with 80k overpull and commenced pulling out of the hole to recover cut housing, PGB and TGB.
660.0	PA	P	MC		2.5	Washed cuttings off PGB, TGB and casing stub in preparation to land same on moonpool skid trolley. Landed out PGB, TGB and casing stub on skid trolley and released grapple from same. Commenced deballasting rig from survival draft.

DFE above MSL : 21.5m

Lat : 38 Deg 01 Min 44.25 Sec

Spud Date : 07 Oct 2004

Release Date : 17 Oct 2004

Water Depth : 53.0m

Long : 148 Deg 30 Min 27.40 Sec

Spud Time : 16:45

Release Time : 13:00

Date : 16 Oct 2004**Daily Cost : \$ 298,701****Report Number : 12**

660.0	PA	P	HBHA	0.75	Soft broke casing cutting assembly and laid out same.
660.0	PA	P	RD	1.25	Removed guide posts from PGB and skidded PGB, TGB and casing stub to starboard side of moonpool on skid trolley.
660.0	PA	P	HBHA	2	Laid down 8" drill collars and remaining 5" drill pipe from derrick.
660.0	PA	P	RM	2.75	Commenced anchor handling operations: Anchor #6, PCC to Far Grip @ 18:00, off bottom @ 18:25, racked @ 19:35, PCC back to rig @ 19:45. Anchor #3, PCC to Far Grip @ 20:12, off bottom @ 20:45
660.0	PA	TP	RR	WOE 0.75	Anchor winch #3 breaker tripped at SCR. Operation shut down while repair same.
660.0	PA	P	RM	2.5	Resumed anchor handling operations: Anchor #3, racked @ 22:35, PCC back to rig @ 22:42. Attempted to trim rig to raise forward pontoons from water for backup tow bridle repair. Unable to raise pontoons high enough out of the water. Decision made for single boat tow to Martha-1 location using Far Grip with Wrangler on single secondary tow line as backup. Resumed anchor handling operations: Anchor #2, PCC to Far Grip @ 23:05, off bottom @ 23:45. Anchor #7, PCC to Wrangler @ 23:25, off bottom @ 23:55. Deballasted to 10.5 m draft @ 00:00. Deballasting ongoing.

Date : 17 Oct 2004**Daily Cost : \$ 123,976****Report Number : 13**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
660.0	PA	P	RM		13	Continued to pull anchors: Anchor #2, racked at 00:45, PCC back to rig at 00:55 Anchor #7, racked at 00:56, PCC back to rig at 01:05 Primary tow bridle to Far Grip to undo fishplate at 02:55 Bridle leg passed back to rig at 03:52 Anchor #5, PCC passed to Wrangler at 04:30 Tow bridle connected to Far Grip at 05:15 Anchor #5, off bottom at 05:27, racked at 06:35, PCC back to rig at 06:40 Anchor #1, PCC passed to Wrangler at 07:10, off bottom at 07:35, racked at 09:27, PCC back to rig at 09:31 Anchor #8, PCC passed to Wrangler at 09:50, off bottom at 10:12, racked at 11:25, PCC back to rig at 11:30. Anchor #4, PCC passed to Wrangler at 11:50, off bottom at 12:25 Last anchor (#4) racked at 13:00 on 17 October 2004. Rig handed over from BSOC to Santos. Anchor #4, PCC back to rig at 13:02 Rig under tow to Martha-1 location. Statement of facts: Ocean Patriot - Fuel Oil 2055 bbl, Drill Water 1021 bbl, Potable Water 1216 bbl, Lube Oil 8920 litre, Barite 57.4 MT, Gel 18.3 MT Cement 83.4 MT Far Grip - Fuel Oil 3773 bbl, Drill Water 0 bbl, Potable Water 3233 bbl, Lube Oil 12400 litre, Barite 0 MT, Gel 84 MT Cement 36 MT Pacific Wrangler - Fuel Oil 2457 bbl, Drill Water 742 bbl, Potable Water 843 bbl, Lube Oil 25489 litre, Barite 0 MT, Gel 11 MT Cement 0 MT

APPENDIX 19

DAILY DRILLING REPORTS

(By IDS)

04 Oct 2004 (GMT +10)

From: Chris Wilson
 To: Colin Allport

DRILLING MORNING REPORT # 1

Moby-1 (Vic / P-47)

Well Data						
Country	Australia	M. Depth	0m	Cur. Hole Size	0in	AFE Cost \$ 4,164,756
Field		TVD	0m	Casing OD	0in	AFE No.
Drill Co.	DOGC	Progress	0m	Shoe TVD	0m	Daily COST \$ 55,010
Rig	Ocean Patriot	Days from spud		FIT	Oppg	Cum Cost \$ 55,010
Wtr Dpth(LAT)	53.0m	Days on well	1.00	LOT	Oppg	Planned TD 625.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600		Rig was running anchors		
RT-ML	74.5m	Planned Op		Continue to run primary anchors with Far Grip. Once done, release Pacific Wrangler from tow bridle to run secondary anchors. Far Grip to be backloaded and steam to Eden. Ballast down rig to drilling draft and prepare to run TGB.		

Summary of Period 0000 to 2400 Hrs

Rig was on tow to Moby-1 location in Vic/P-47 by Pacific Wrangler. Rig handed anchor number 5 to Far Grip to begin running out.

Operations For Period 0000 Hrs to 2400 Hrs on 04 Oct 2004

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	2400	24.00	PS	P	RM	0m	Rig was under tow to Moby-1 location by Pacific Wrangler. Rig maintenance ongoing. Prepare spud equipment. 0600: 038 deg 01.65' S, 149 deg 20' E, 0.6 kn 1200: 038 deg 01.9' S, 149 deg 09.9' E, 2.0 kn 1800: 038 deg 02.9' S, 148 deg 52.4' E, 2.3 kn 2400: 038 deg 02.3' S, 148 deg 34.9' E, 2.0 kn 2300: #5 PCC passed to Far Grip

Operations For Period 0000 Hrs to 0600 Hrs on 05 Oct 2004

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0245	2.75	PS	P	RM	0m	Rig was under tow to Moby-1 location by Pacific Wrangler. Rig approached location and dropped anchor #5 with Far Grip.
0245	0600	3.25	PS	P	RM	0m	First anchor (#5) was down at 02:45, 5th October 2004. Rig on contract to Bass Strait Oil Company. Continued to run anchors.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite	MT	0	0	0	55.6
Gel/Bentonite	MT	0	0	0	7.2
Drill Water	m³	0	12.1	0	554.4
Rig Fuel	m³	0	5.2	0	162.2
Cement	MT	0	0	0	2.3
Potable Water	m³	28	16.9	0	135.0

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)
1	12P-160	6.50	0	98	0	0	0	0	0	0	0						
2	12P-160	6.50	0	98	0	0	0	0	0	0	0						
3	A1700	6.50	0	98	0	0	0	0	0	0	0						

Personnel On Board

Job Title	Personnel	Company	Pax
OIM Camp Boss	Sean De Freitas Chris Seidel	DOGC Total	43 3

Personnel On Board								
Rig Positioner	Stephen Bradley	Fugro	6					
Data Engineer	Keith Ratnam	Halliburton	5					
Mud Engineer	Jasdeep Singh	MI Swaco	1					
Engineer	Matt Jones	Cameron	1					
Cementer	Edgar Llagas	Dowell Schlumberger	1					
Rig Positioner QC	Alan Sellers	RPS Hydrossearch	1					
Tow Master	Tom Lay	Offshore	7					
Drilling Supervisor	Chris Wilson	BSOC	3					
		Total	71					

Marine

Weather on 04 Oct 2004

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period		
12.00mi	17.0kn	248deg	1017bar	15.0C°	1.0m	225deg	0ft/min		
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments			
1.0deg	0.5deg	0m	3.0m	225deg	0ft/min				
Rig Dir.	Ris. Tension	VDL	Comments						
277.0deg	0klb	1727.0klb							
Boats	Arrived (date/time)		Departed (date/time)		Status	Bulks			
Far Grip					Anchor Handling	Item	Unit	Quantity	
						Barite	MT	0	
						Gel/Bentonite	MT	0	
						Cement	MT	42	
Pacific Wrangler					On main tow bridle	Item	Unit	Quantity	
						Barite	MT	46	
						Gel/Bentonite	MT	11	
						Cement Uncut (sx)	MT	85	

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1		10:38 / 10:53	5 / 9	
2		11:20 / 11:32	6 / 8	
3		13:18 / 13:27	7 / 1	
4		15:05 / 15:10	7 / 0	

05 Oct 2004 (GMT +10)

From: Chris Wilson
 To: Colin Allport

DRILLING MORNING REPORT # 2

Moby-1 (Vic / P-47)

Well Data							
Country	Australia	M. Depth	0m	Cur. Hole Size	0in	AFE Cost	\$ 4,164,756
Field		TVD	0m	Casing OD	0in	AFE No.	
Drill Co.	DOGC	Progress	0m	Shoe TVD	0m	Daily COST	\$ 189,366
Rig	Ocean Patriot	Days from spud		FIT	0ppg	Cum Cost	\$ 244,376
Wtr Dpth(LAT)	53.0m	Days on well	2.00	LOT	0ppg	Planned TD	625.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600		Running remaining anchors			
RT-ML	74.5m	Planned Op		2 anchors to be run, reposition 3 anchors to correct rig heading, spud well			

Summary of Period 0000 to 2400 Hrs

Ran anchors, ballasted down rig and prepared TGB

Operations For Period 0000 Hrs to 2400 Hrs on 05 Oct 2004

From	To	Hrs	Phse	Clis (RC)	Op	Depth	Activity Description
0000	0245	2.75	PS	P	RM	0m	Rig was under tow to Moby-1 location by Pacific Wrangler. Rig approached location and dropped anchor #5 with Far Grip.
0245	1600	13.25	PS	P	RM	0m	First anchor (#5) was down at 02:45, 5th October 2004. Rig on contract to Bass Strait Oil Company. Anchor handling ongoing with following sequence: #5: On bottom @ 02:45, PCC passed to rig @ 03:35 #1 PCC passed to boat @ 03:53, On bottom @ 04:36, PCC passed to rig @ 05:19 #4: PCC passed to boat @ 06:00, On bottom @ 06:35, PCC passed to rig @ 07:16 #8: PCC passed to boat @ 07:46, On bottom @ 08:21, PCC passed to rig @ 08:46 Secondary tow bridle passed to rig from Pacific Wrangler @ 11:20 #7: PCC passed to boat @ 12:40, On bottom @ 15:15, PCC passed to rig @ 15:48
1600	1815	2.25	PS	TP (MOB)	RM	0m	Began to re-run anchors to correct rig heading from 250deg to 270deg as required by comms #8: PCC passed to boat @ 16:00, Off bottom @ 16:25, On bottom @ 17:33, PCC to rig 18:10. NOTE: 2 hours 10 minutes re-running primary anchors to correct rig heading
1815	2100	2.75	PS	P	RM	0m	Resumed anchor handling #2: PCC passed to boat @ 19:00, On bottom @ 19:20, PCC to rig @ 20:40 Rig commenced ballast down to 12m draft @ 19:40
2100	2400	3.00	PS	TP (WEA)	WOW	0m	Anchor handling shut down due to adverse weather conditions: Wind = 40kn, Sea = 3m, Swell = 3m While anchor handling ongoing: Prepared TGB and placed on dolly in moonpool, picked up HWDP and racked back 5 stands in derrick, made up TGB running tool to pup joint, made up 30"running tool to 1 stand HWDP, picked up and racked back enough 5" DP for TD, picked up and racked back 9 1/2" DCs, made up 36"HO to 9 1/2" Anderdrift.

Operations For Period 0000 Hrs to 0600 Hrs on 06 Oct 2004

From	To	Hrs	Phse	Clis (RC)	Op	Depth	Activity Description
0000	0515	5.25	PS	TP (WEA)	WOW	0m	Wait on weather before resuming anchor handling. 00:00 Wind 40 kn, Seas 3 m, Swells 2 m 02:00 Wind 28 kn, Seas 2.5 m, Swells 2 m 04:00 Wind 20-30 kn, Seas 2.5 m, Swells 2 m 05:00 Wind 18-20 kn, Seas 1.5 m, Swells 2 m
0515	0600	0.75	PS	P	RM	0m	While waiting on weather, painted penetration marks on TGB, picked up and racked back double of 8" DC's and 8" jar, picked up and racked back 6 1/2" DC stands. (IN PROGRESS) Off waiting on weather. Prepare to continue running anchors.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite	MT	0	0	0	55.6
Gel/Bentonite	MT	0	0	0	7.2
Drill Water	m³	0	0	0	554.4
Rig Fuel	m³	0	8.4	0	153.8

Bulk Stocks																						
Name							Unit		In		Used		Adjust		Balance							
Cement							MT		0		0		0		2.3							
Potable Water							m³		30		16.2		0		148.8							
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)					
1	12P-160	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0						
2	12P-160	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0						
3	A1700	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0						
Personnel On Board																						
Job Title				Personnel				Company				Pax										
OIM				Sean De Freitas				DOGC				41										
Camp Boss				Chris Seidel				Total				9										
Rig Positioner				Stephen Bradley				Fugro				6										
Data Engineer				Keith Ratnam				Halliburton				5										
Mud Engineer				Jasdeep Singh				MI Swaco				1										
Engineer				Matt Jones				Cameron				1										
Cementer				Edgar Llagas				Dowell Schlumberger				1										
Rig Positioner QC				Alan Sellers				RPS Hydrossearch				1										
Tow master				Tom Lay				Offshore				1										
Drilling Supervisor				Chris Wilson				BSOC				3										
													Total	69								
Marine																						
Weather on 05 Oct 2004																						
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period															
12.00mi	35.0kn	225deg	1017mbar	14.0C°	1.0m	225deg	0ft/min															
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments																
1.0deg	0.5deg	0m	2.0m	225deg	0ft/min																	
Rig Dir.	Ris. Tension	VDL	Comments																			
270.0deg	0klb	1727.0klb																				
Boats			Arrived (date/time)		Departed (date/time)		Status		Bulks													
Far Grip							08:50		Loading 8 1/2"section equipment in Eden		Item											
									Barite		Unit											
									Gel/Bentonite		MT											
Pacific Wrangler									Cement		MT											
									Item			Quantity										
									Barite			MT										
Helicopter Movement									Gel/Bentonite		46											
									Cement		MT											
											11											
Flight # Company Arr/Dep. Time Pax In/Out Comment																						
1	Bristow		10:08 / 10:22		5 / 7																	
2	Bristow		12:00 / 12:09		8 / 3																	

06 Oct 2004 (GMT +10)

From: Chris Wilson
 To: Colin Allport

DRILLING MORNING REPORT # 3

Moby-1 (Vic / P-47)

Well Data							
Country	Australia	M. Depth	0m	Cur. Hole Size	0in	AFE Cost	\$ 4,164,756
Field		TVD	0m	Casing OD	0in	AFE No.	
Drill Co.	DOGC	Progress	0m	Shoe TVD	0m	Daily COST	\$ 209,753
Rig	Ocean Patriot	Days from spud		FIT	0ppg	Cum Cost	\$ 454,129
Wtr Dpth(LAT)	53.0m	Days on well	3.00	LOT	0ppg	Planned TD	625.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600		Ballasting down rig.			
RT-ML	74.5m	Planned Op		Cross tension and ballast down. Run TGB and spud.			

Summary of Period 0000 to 2400 Hrs

Waiting on weather, anchor handling, re-running anchors to correct rig heading.

Operations For Period 0000 Hrs to 2400 Hrs on 06 Oct 2004

From	To	Hrs	Phse	Clis (RC)	Op	Depth	Activity Description
0000	0515	5.25	PS	TP (WEA)	WOW	0m	Wait on weather before resuming anchor handling. 00:00 Wind 40 kn, Seas 3 m, Swells 2 m 02:00 Wind 28 kn, Seas 2.5 m, Swells 2 m 04:00 Wind 20-30 kn, Seas 2.5 m, Swells 2 m 05:00 Wind 18-20 kn, Seas 1.5 m, Swells 2 m
0515	0615	1.00	PS	P	RM	0m	While waiting on weather, painted penetration marks on TGB, picked up and racked back double of 8" DC's and 8" jar, picked up and racked back 6 1/2" DC stands.
0615	1015	4.00	PS	TP (MOB)	RM	0m	Off waiting on weather. Prepare to continue running anchors. Re-run anchor #1. PCC to boat @ 06:15, off bottom @ 06:45, on bottom @ 09:58, PCC to rig @ 10:17
1015	1130	1.25	PS	P	RM	0m	Note: Anchor recovered onto roller upside down, approximately 2.5 hrs to turn anchor over. Run anchor #3.
1130	1345	2.25	PS	TP (MOB)	RM	0m	PCC to boat @ 10:27, on bottom @ 10:49, PCC to rig @ 11:24. Re-run anchor #4.
1345	1745	4.00	PS	P	RM	0m	PCC to boat @ 11:36, off bottom @ 11:57, on bottom @ 12:47, PCC to rig @ 13:40 Run anchor #6.
1745	2015	2.50	PS	TP (MOB)	RM	0m	PCC to boat @ 14:20, on bottom @ 14:37, anchor not holding @ 15:20, re-run @ 17:05, on bottom @ 17:24, PCC to rig @ 17:50. Re-run anchor #5.
2015	2400	3.75	PS	TP (MOB)	RM	0m	PCC to boat @ 18:10, off bottom @ 18:29, on bottom @ 20:00, PCC to rig @ 20:20 Attempt to tension anchor #8. Anchor slipping and PCC passed to boat @ 22:20, off bottom @ 22:30, on bottom @ 23:35. Anchor still slipping. Note: 8 hours, 15 minutes spent re-running anchors. Note: While anchor handling, picked up 30"x20" casing and hung off same in PGB in moonpool. Made up running tool into TGB in moonpool and hung same in elevators ready to run.

Operations For Period 0000 Hrs to 0600 Hrs on 07 Oct 2004

From	To	Hrs	Phse	Clis (RC)	Op	Depth	Activity Description
0000	0500	5.00	PS	TP (MOB)	RM	0m	Continue to attempt to seat anchor #8, re-run same. Cross tension anchors #5,8,4 and 6. Anchor #8 seated at 05:00. 02:20 - Breaker tripped on #2 anchor at SCR. Troubleshoot same. Replace contactor, no success.

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0500	0530	0.50	PS	TP (MOB)	RM	0m	Re-position rig over well centre.
0530	0600	0.50	PS	P	RM	0m	Begin to ballast down rig to drilling draft while backload Pacific Wrangler.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite	MT	0	0	0	55.6
Gel/Bentonite	MT	0	0	0	7.2
Drill Water	m³	0	0	0	554.4
Rig Fuel	m³	0	7.8	0	146.0
Cement	MT	0	0	0	2.3
Potable Water	m³	28.9	30.2	0	147.5

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)
1	12P-160	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	
2	12P-160	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	
3	A1700	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	

Personnel On Board

Job Title	Personnel	Company	Pax
OIM	Sean De Freitas	DOGC	42
Camp Boss	Chris Seidel	Total	9
Rig Positioner	Stephen Bradley	Fugro	6
Data Engineer	Keith Ratnam	Halliburton	5
Mud Engineer	Jasdeep Singh	MI Swaco	1
Engineer	Matt Jones	Cameron	1
Cementer	Edgar Llagas	Dowell Schlumberger	1
Rig Positioner QC	Alan Sellers	RPS Hydrosearch	1
Casing Hand	Colin Fidock	Weatherford	2
Drilling Supervisor	Chris Wilson	BSOC	4
			Total 72

Marine

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
12.00mi	4.0kn	090deg	1018mbar	14.0C°	0.5m	180deg	0ft/min
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments	
1.0deg	0.5deg	0m	0.5m	180deg	0ft/min		
Rig Dir.	Ris. Tension	VDL	Comments				
268.0deg	0klb	1727.0klb					

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks												
Far Grip	09:50		Arrived back from Eden with 8 1/2" section equipment @ 09:50. Standing by while Pacific Wrangler handling anchors.	<table border="1"> <thead> <tr> <th>Item</th> <th>Unit</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>Barite</td> <td>MT</td> <td>0</td> </tr> <tr> <td>Gel/Bentonite</td> <td>MT</td> <td>24</td> </tr> <tr> <td>Cement</td> <td>MT</td> <td>45</td> </tr> </tbody> </table>	Item	Unit	Quantity	Barite	MT	0	Gel/Bentonite	MT	24	Cement	MT	45
Item	Unit	Quantity														
Barite	MT	0														
Gel/Bentonite	MT	24														
Cement	MT	45														
Pacific Wrangler			Anchor handling. Will come in to take small backload and steam to Eden for customs clearance.	<table border="1"> <thead> <tr> <th>Item</th> <th>Unit</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>Barite</td> <td>MT</td> <td>46</td> </tr> <tr> <td>Gel/Bentonite</td> <td>MT</td> <td>11</td> </tr> <tr> <td>Cement</td> <td>MT</td> <td>85</td> </tr> </tbody> </table>	Item	Unit	Quantity	Barite	MT	46	Gel/Bentonite	MT	11	Cement	MT	85
Item	Unit	Quantity														
Barite	MT	46														
Gel/Bentonite	MT	11														
Cement	MT	85														

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow	15:12 / 15:29	0 / 3	

07 Oct 2004 (GMT +10)

From: Chris Wilson
 To: Colin Allport

DRILLING MORNING REPORT # 4

Moby-1 (Vic / P-47)

Well Data							
Country	Australia	M. Depth	101.0m	Cur. Hole Size	36.000in	AFE Cost	\$ 4,164,756
Field		TVD	101.0m	Casing OD	30.000in	AFE No.	
Drill Co.	DOGC	Progress	26.0m	Shoe TVD	98.3m	Daily COST	\$ 169,949
Rig	Ocean Patriot	Days from spud	0.30	FIT	0ppg	Cum Cost	\$ 624,078
Wtr Dpth(LAT)	53.0m	Days on well	4.00	LOT	0ppg	Planned TD	625.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	Making up 17 1/2" BHA.				
RT-ML	74.5m	Planned Op	Drill to section TD in 17 1/2" hole, circulate and rig up to run 13 3/8" casing.				

Summary of Period 0000 to 2400 Hrs

Completed anchor handling, ballasted down rig, ran TGB, drilled 36" hole to section TD, ran 30" casing, rigged up to cement 30" casing.

Operations For Period 0000 Hrs to 2400 Hrs on 07 Oct 2004

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0500	5.00	PS	TP (MOB)	RM	0m	Continued to attempt to seat anchor #8, re-ran same. Cross tensioned anchors #5,8,4 and 6. Anchor #8 seated at 05:00. 02:20 - Breaker tripped on #2 anchor at SCR. Troubleshoot same. Replaced contactor, no success.
0500	0530	0.50	PS	TP (MOB)	RM	0m	Re-positioned rig over well centre. Final Moby-1 well position, approved by rig positioning QC is: Lat: 38 deg 01' 44.25" S Long: 148 deg 30' 27.40" E Easting: 632316.41 Northing: 5789884.86 Drilling position 2.4 m from the design position on a bearing of 270.28 deg true.
0530	0930	4.00	PS	P	RM	0m	Ballasted down to drilling draft.
0930	0945	0.25	PS	P	RM	0m	Move PGB with 30" casing from port to starboard in moonpool while ballasting rig.
0945	1100	1.25	PS	P	RM	0m	Install guide posts to PGB in moonpool while ballasting down rig.
1100	1200	1.00	SH	P	TI	0m	Ran TGB and landed at @ 75.37 m. Bulls eye reading on TGB 0.5 deg @ 270 deg True.
1200	1245	0.75	SH	P	TO	0m	Released TGB running tool and pulled out of the hole, laid out running tool, crossover and pup joint assembly.
1245	1315	0.50	SH	TP (WOE)	WO	0m	Medivac helicopter on deck, operation shut down waiting on crane.
1315	1530	2.25	SH	P	MUT	0m	Made up 36" BHA, ran in the hole with ROV assisting through TGB, tagged seabed at 75.37 m.
1530	1600	0.50	SH	TP (WOE)	RR	0m	Broke circulation and tested Anderdrift tool. Trouble priming pumps and lost #3 mud pump due to electrical problem.
1600	1645	0.75	SH	TP (WOE)	RR	0m	Attempted to spud well with rotation resulting in wrapping guide wire around string and power loss to Top Drive. Rectified same.
1645	1745	1.00	SH	P	D	101.0m	Spudded well drilling 36" hole from 75 m to 101 m pumping 50 bbl gel sweeps every 9 m.
1745	1800	0.25	SH	P	CIR	101.0m	Pumped 100 bbl gel sweep and displaced with 150 bbl high-vis pill.
1800	2000	2.00	SH	P	HBHA	101.0m	Pulled out of the hole from 101 m and laid out cross over, bit sub, 36" hole opener and 26" bit.
2000	2200	2.00	SC	P	RC	101.0m	Make up stinger below 30" Cameron running tool and stabbed into 30" housing in moonpool, filled casing.
2200	2315	1.25	SC	P	RC	101.0m	Ran in the hole with ROV assist through TGB, landed out PGB on TGB. Slope indicator 0 deg.
2315	2400	0.75	SC	P	RUC	101.0m	Nipped up cement line, flushed and pressure tested same to 2000 psi.

Operations For Period 0000 Hrs to 0600 Hrs on 08 Oct 2004

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0015	0.25	SC	P	CMC	101.0m	Finished circulating 75 bbl seawater.

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0015	0115	1.00	SC	P	CMC	101.0m	Mixed and pumped 746 sacks of cement, 150 bbl slurry at 15 ppg.
0115	0145	0.50	SC	P	CMC	101.0m	Rigged down surface equipment and released running tool with 5k overpull.
0145	0230	0.75	SC	P	TO	101.0m	Pulled out of the hole with 30" running tool from 73 m.
0230	0400	1.50	SC	P	RU	101.0m	Picked up 18 3/4" running tool and installed cement plug launcher cross over and laid down same.
0400	0500	1.00	IH	P	HBHA	101.0m	Made up 17 1/2" BHA.
0500	0545	0.75	IH	P	HBHA	101.0m	Installed guide ropes to BHA and guide lines.
0545	0600	0.25	IH	P	HBHA	101.0m	Continued to make up 17 1/2" BHA and ran in the hole with same.

WBM Data								Cost Today \$ 3,577			
Mud Type:	Hi vis PHG sweeps	API FL:	14.0cc	Cl:	1700.0mg/l	Solids:	5	Viscosity	120sec/qt		
Sample-From:	Active	Filter-Cake:	2/32nd"	Hard/Ca:	80.0mg/l	H2O:	95%	PV	19cp		
Time:	22:00	HTHP-FL:	0cc	MBT:	23	Oil:	0%	YP	22lb/100ft ²		
Weight:	8.70ppg	HTHP-cake:	0/32nd"	PM:	0	Sand:	0	Gels 10s	20		
Temp:	54.0°C			PF:	0.43	Glycol:	0%vol	Gels 10m	45		
				pH:	9.5	KCl:	0%	Fann 003	13		
						PHPA:	0ppb	Fann 006	14		
								Fann 100	25		
								Fann 200	34		
								Fann 300	41		
								Fann 600	60		
Comment											

Shakers, Volumes and Losses Data				Engineer : Jasdeep Singh							
Equip.	Descr.	Mesh Size	Available	691bbl	Losses	319bbl	Comments				
			Active	300bbl	Downhole	0bbl					
			Mixing	0bbl	Surf+ Equip	0bbl					
			Hole	91bbl	Dumped	0bbl					
			Slug	0bbl	De-Gasser	0bbl					
			Reserve	300bbl	De-Sander	0bbl					
			Kill	0bbl	De-Siliter	0bbl					
			Sweeps	319bbl	Centrifuge	0bbl					

Bit # 1				Wear	I	O1	D	L	B	G	O2	R
Size ("):	26.00in	IADC#	1-1-1	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	Not Found	WOB(avg)	7.7kbl	No.	Size	Progress	26.0m	Cum. Progress	26.0m			
Type:	Milled Tooth	RPM(avg)	59	1	21/32nd"	On Bottom Hrs	1.20h	Cum. On Btm Hrs	1.20h			
Serial No.:	66330	F.Rate	1100gpm	3	22/32nd"	IADC Drill Hrs	1.20h	Cum IADC Drill Hrs	1.20h			
Bit Model		SPP	1050psi	Total Revs		1100	Cum Total Revs	1100				
Depth In	75.0m	HSI		ROP(avg)		21.67 m/hr	ROP(avg)	21.67 m/hr				
Depth Out	101.0m	TFA	1.452									

BHA # 1							
Weight(Wet)	145.0klb	Length	123.4m	Torque(max)	3kft-lbs	D.C. (1) Ann Velocity	
Wt Below Jar(Wet)	136.0klb	String	145.0klb	Torque(Off.Btm)	3kft-lbs	D.C. (2) Ann Velocity	
		Pick-Up	145.0klb	Torque(On.Btm)	3kft-lbs	H.W.D.P. Ann Velocity	
		Slack-Off	145.0klb			D.P. Ann Velocity	
BHA Run Description		26" bit with 36" hole opener, Anderdrift, 9 1/2" DC's, 17 1/2" string stab., 8" DC's, 5" HWDP					
BHA Run Comment							

Survey																						
MD	Incl Deg	Corr. Az (deg)	TVD	'V' Sect	Dogleg (deg/100ft)	N/S	E/W	Tool Type														
75.00	0.50	0	75.0	0	0	0	0															
Bulk Stocks																						
Name				Unit		In	Used	Adjust		Balance												
Barite				MT		0	0	0	0	55.6												
Gel/Bentonite				MT		24	11.19	0	0	20.0												
Drill Water				m³		150.1	59.8	0	0	644.7												
Rig Fuel				m³		0	6.2	0	0	139.8												
Cement				MT		43	0	0	0	45.3												
Potable Water				m³		37	23.2	0	0	161.3												
Pumps																						
Pump Data - Last 24 Hrs						Slow Pump Data																
No.	Type	Liner (in)	MW (ppg)	Eff (%)	SPM	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (psi)	SPP1 (psi)	Flow1 (gpm)	SPM2	SPP2 (psi)	Flow2 (gpm)	SPM3	SPP3 (psi)	Flow3 (gpm)					
1	12P-160	6.50	8.70	98	110	1200	552	0	0	0	0	0	0	0	0	0	0					
2	12P-160	6.50	8.70	98	110	1200	552	0	0	0	0	0	0	0	0	0	0					
3	A1700	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	0					
Casing																						
OD		LOT / FIT		Csg Shoe (MD/TVD)				Cementing														
30 "		0ppg / 0ppg		98.00m / 98.00m				API Class G														
Personnel On Board																						
Job Title				Personnel				Company			Pax											
Rig Supt.			Paul Baker				DOGC				41											
Camp Boss			Chris Seidel				Total				9											
ROV Pilot			Jason Goodwin				Fugro				4											
Data Engineer			Keith Ratnam				Halliburton				5											
Mud Engineer			Jasdeep Singh				MI Swaco				1											
Engineer			Matt Jones				Cameron				1											
Cementer			Edgar Llagas				Dowell Schlumberger				2											
Engineer			Scott Einam				Baker Atlas				3											
Casing Hand			Colin Fidock				Weatherford				2											
Drilling Supervisor			Chris Wilson				BSOC				4											
Engineer			George McCallum				Maersk				1											
											Total 73											
HSE Summary																						
Events		Date of last		Days Since		Descr.			Remarks													
Non Recordable Case		07 Oct 2004		0 Days		BCO medivac to shorebase due to chest pains																
Non Recordable Case		07 Oct 2004		0 Days		OIM medivac to shorebase due to kidney stone																
Marine																						
Weather on 07 Oct 2004																						
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period															
8.00mi	5.0kn	225deg	1004mbar	14.0C°	1.0m	225deg	0ft/min															
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments																
0.5deg	0.5deg	0m	1.0m	225deg	0ft/min																	
Rig Dir.	Ris. Tension	VDL	Comments																			
270.0deg	0klb	1960.6klb																				
Boats	Arrived (date/time)		Departed (date/time)			Status			Bulks													

Far Grip			Standing by/unloading 8 1/2" section equipment and bulk cement, bentonite and potable water as drill water.	Item	Unit	Quantity
				Barite	MT	0
				Gel/Bentonite	MT	0
Pacific Wrangler		06:15	Enroute back to rig from Eden.	Cement	MT	0
				Item	Unit	Quantity
				Barite	MT	46
				Gel/Bentonite	MT	11
				Cement	MT	85

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
2	Medivac	12:39 / 13:15	1 / 0	
3	Bristow	15:05 / 15:14	4 / 7	
1	Medivac	09:44 / 10:40	1 / 0	

08 Oct 2004 (GMT +10)

From: Chris Wilson
 To: Colin Allport

DRILLING MORNING REPORT # 5

Moby-1 (Vic / P-47)

Well Data							
Country	Australia	M. Depth	325.0m	Cur. Hole Size	17.500in	AFE Cost	\$ 4,164,756
Field		TVD	325.0m	Casing OD	30.000in	AFE No.	
Drill Co.	DOGC	Progress	224.0m	Shoe TVD	98.0m	Daily COST	\$ 194,834
Rig	Ocean Patriot	Days from spud	1.30	FIT	0ppg	Cum Cost	\$ 818,912
Wtr Dpth(LAT)	53.0m	Days on well	5.00	LOT	0ppg	Planned TD	625.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	Running 13 3/8" casing.				
RT-ML	74.5m	Planned Op	Run BOP stack and riser.				

Summary of Period 0000 to 2400 Hrs

Cemented 30" casing, made up 17 1/2" BHA, drilled to TD in 17 1/2" hole, handled 17 1/2" BHA, rigged up to run 13 3/8" casing.

Operations For Period 0000 Hrs to 2400 Hrs on 08 Oct 2004

From	To	Hrs	Phse	Clis (RC)	Op	Depth	Activity Description
0000	0015	0.25	SC	P	CMC	101.0m	Finished circulating 75 bbl seawater.
0015	0115	1.00	SC	P	CMC	101.0m	Mixed and pumped 746 sacks of cement, 158 bbl slurry at 15.8 ppg.
0115	0145	0.50	SC	P	CMC	101.0m	Rigged down surface equipment and released running tool.
0145	0230	0.75	SC	P	TO	101.0m	Pulled out of the hole with 30" running tool from 73 m.
0230	0400	1.50	SC	P	RU	101.0m	Picked up 18 3/4" running tool and installed cement plug launcher cross over and laid down same.
0400	0500	1.00	IH	P	HBHA	101.0m	Made up 17 1/2" BHA.
0500	0545	0.75	IH	P	HBHA	101.0m	Installed guide ropes to BHA and guide lines.
0545	0715	1.50	IH	P	TI	101.0m	Continued to make up 17 1/2" BHA and ran in the hole with same. Tagged cement at 96.7 m.
0715	0730	0.25	IH	P	BKC	101.0m	Broke circulation and tested Anderdrift tool at 95 m. Survey 1 deg.
0730	0815	0.75	IH	TP (WOE)	RR	101.0m	Lost power to topdrive. Changed out 110 V breaker.
0815	1115	3.00	IH	P	D	171.0m	Drilled cement and shoe from 96.7 m to 98 m. Continued drilling to 171 m pumping 40 bbl guar gum sweeps every 15 m and 50 bbl gel sweep before every connection.
1115	1200	0.75	IH	TP (WOE)	ESDD	171.0m	Smoke coming from #3 mud pump A motor, shut down power, sounded fire alarms and mustered.
1200	1730	5.50	IH	P	D	325.0m	Continued to drill from 171 m to 325 m, pumping guar gum sweeps as required. Unable to obtain survey from Anderdrift tool.
1730	1745	0.25	IH	P	CIR	325.0m	Pumped 100 bbl hi-vis sweep at 1100 gpm.
1745	1915	1.50	IH	P	WT	325.0m	Conducted wiper trip to 30" casing shoe from 325 m. Took weight at 315 m, reamed down from same to bottom.
1915	1945	0.50	IH	P	CIR	325.0m	Circulated bottoms up at 1100 gpm and displaced hole to 350 bbl hi-vis mud.
1945	2030	0.75	IH	P	TO	325.0m	Dropped single shot survey tool and pulled out of the hole from 325 m to 203 m.
2030	2200	1.50	IH	P	TO	325.0m	Continued to pull out of the hole with BHA from 203 m, recovering survey and jetting 30" housing on the way out of the hole. Survey 1 deg.
2200	2315	1.25	IC	P	MUT	325.0m	Made up cement head in stand of 5" HWDP and racked same.
2315	2400	0.75	IC	P	RRC	325.0m	Cleaned drill floor and commenced rig up of 13 3/8" casing handling equipment.

Operations For Period 0000 Hrs to 0600 Hrs on 09 Oct 2004

From	To	Hrs	Phse	Clis (RC)	Op	Depth	Activity Description
0000	0100	1.00	IC	P	RRC	325.0m	Held pre job safety meeting and reviewed JSA for running 13 3/8" casing. Rigged up to run same.
0100	0145	0.75	IC	P	RC	325.0m	Picked up and made up 13 3/8" float equipment. Baker locked first 3 joints. Tested shoe and float equipment
0145	0215	0.50	IC	P	RC	325.0m	Attached guide ropes to guide wires and 13 3/8" casing.
0215	0330	1.25	IC	P	RC	325.0m	Continued to pick up and make up 13 3/8" casing and ran in the hole with same.
0330	0445	1.25	IC	TP (WOE)	WOE	325.0m	Serviced top drive and pipe handler while waiting on Pacific Wrangler for no cross coupling.
0445	0600	1.25	IC	P	RC	325.0m	Continued to pick up and make up 13 3/8" casing and ran in the hole with same. In open hole from 94.97 m.

WBM Data											Cost Today \$ 3,154		
Mud Type:	Hi vis sweeps	API FL:	11.2cc	Cl:	800.0mg/l	Solids:	8	Viscosity	120sec/qt	PV	30cp		
Sample-From:	Active	Filter-Cake:	2/32nd"	Hard/Ca:	40.0mg/l	H2O:	92%	YP	33lb/100ft ²	Gels 10s	43		
Time:	18:00	HTHP-FL:	0cc	MBT:	24	Oil:	0%	Gels 10m	67				
Weight:	8.70ppg	HTHP-cake:	0/32nd"	PM:	0	Sand:	0	Fann 003	25				
Temp:	12.8C°			PF:	0.47	Glycol:	0%vol	Fann 006	25				
				pH:	9.5	KCl:	0%	Fann 100	41				
						PHPA:	0ppb	Fann 200	56				
								Fann 300	63				
								Fann 600	93				
Comment													

Shakers, Volumes and Losses Data							Engineer : Jasdeep Singh						
Equip.	Descr.	Mesh Size	Available	461bbl	Losses	1280bbl	Comments						
			Active	291bbl	Downhole	350bbl							
			Mixing	0bbl	Surf+ Equip	0bbl							
			Hole	0bbl	Dumped	0bbl							
			Slug	0bbl	De-Gasser	0bbl							
			Reserve	170bbl	De-Sander	0bbl							
			Kill	0bbl	De-Silter	0bbl							
			Sweeps	930bbl	Centrifuge	0bbl							

Bit # 2			Wear	I	O1	D	L	B	G	O2	R			
			0	0	NO	A	0	I	NO	TD				
Size ("):	17.50in	IADC#	1-1-5	Nozzles						Calculated over Bit Run				
Mfr:	Smith	WOB(avg)	6.6klb	No.		Size	Progress							
Type:	Milled Tooth	RPM(avg)	140	1		22/32nd"	On Bottom Hrs							
Serial No.:	MR3867	F.Rate	1100gpm	3		20/32nd"	IADC Drill Hrs							
Bit Model	XR+IV	SPP	1950psi	Total Revs						Cum Total Revs	36000			
Depth In	101.0m	HSI		ROP(avg)						ROP(avg)	52.09 m/hr			
Depth Out	325.0m	TFA	1.292											

BHA # 2											
Weight(Wet)	155.0klb	Length	203.7m	Torque(max)	3kft-lbs	D.C. (1)	Ann Velocity				
Wt Below Jar(Wet)	135.0klb	String	170.0klb	Torque(Off.Btm)	3kft-lbs	D.C. (2)	Ann Velocity				
		Pick-Up	170.0klb	Torque(On.Btm)	3kft-lbs	H.W.D.P.	Ann Velocity				
		Slack-Off	170.0klb			D.P.	Ann Velocity				
BHA Run Description											
17 1/2" bit, float sub, 9" Anderdrift, 2 x 9 1/2" DCs, 17 1/2" string stabilizer, 3x 8" DCs, 8" jar, 6 x 5" HWDP.											
BHA Run Comment											

Survey											
MD	Incl Deg	Corr. Az (deg)	TVD	'V' Sect	Dogleg (deg/100ft)	N/S	E/W	Tool Type			
95.00	1.00	0	0	0	0	0	0				
122.00	0	0	0	0	0	0	0				
146.00	0	0	0	0	0	0	0				
182.00	1.00	0	0	0	0	0	0				
325.00	1.00	0	0	0	0	0	0				

Bulk Stocks											
Name				Unit		In	Used	Adjust	Balance		
Barite				MT		0	0	0	0	55.6	

Bulk Stocks																							
Name							Unit	In	Used	Adjust	Balance												
Gel/Bentonite				MT			0	1.03	0	0	19.0												
Drill Water			m³				0	59.6	0	0	585.1												
Rig Fuel			m³				59.6	15.9	0	0	183.5												
Cement			MT				82	33	0	0	94.3												
Potable Water			m³				35.9	28.9	0	0	168.3												
Pumps																							
Pump Data - Last 24 Hrs							Slow Pump Data																
No.	Type	Liner (in)	MW (ppg)	Eff (%)	SPM	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (psi)	SPP1 (psi)	Flow1 (gpm)	SPM2 (psi)	SPP2 (psi)	Flow2 (gpm)	SPM3 (psi)	SPP3 (psi)	Flow3 (gpm)						
1	12P-160	6.50	8.70	98	110	1800	552	0	0	0	0	0	0	0	0	0	0						
2	12P-160	6.50	8.70	98	110	1800	552	0	0	0	0	0	0	0	0	0	0						
3	A1700	6.50	8.70	98	110	1800	552	0	0	0	0	0	0	0	0	0	0						
Casing																							
OD	LOT / FIT	Csg Shoe (MD/TVD)						Cementing															
30 "	Oopp / Oppg	98.00m / 98.00m			API Class G																		
Personnel On Board																							
Job Title				Personnel				Company				Pax											
OIM			Pedro Johns				DOGC				42												
Camp Boss			Chris Seidel				Total				9												
ROV Pilot			Jason Goodwin				Fugro				4												
Data Engineer			Keith Ratnam				Halliburton				5												
Mud Engineer			Jasdeep Singh				MI Swaco				1												
Engineer			Matt Jones				Cameron				1												
Cementer			Edgar Llagas				Dowell Schlumberger				2												
Engineer			Scott Einam				Baker Atlas				3												
Casing Hand			Colin Fidock				Weatherford				2												
Drilling Supervisor			Chris Wilson				BSOC				4												
Engineer			George McCallum				Maersk				1												
												Total 74											
HSE Summary																							
Events		Date of last		Days Since		Descr.			Remarks														
Lost Time Incident		08 Oct 2004		0 Days		Smoke discharge from #3 mud pump motor.			Smoke discharge noted from #3 mud pump motor. Rig mustered at lifeboats. Motor shut down and burnt varish noted inside motor. No personnel injured.														
Near Miss		08 Oct 2004		0 Days		Drill floor air winch parted.			Drill floor air winch parted after getting caught in moving travelling blocks. Approximately 70m of cable fell to rig floor. No personnel injured.														
Marine																							
Weather on 08 Oct 2004																							
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period																
8.00mi	30.0kn	225deg	1017mbar	14.0C°	2.5m	225deg	0ft/min																
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments																	
0.5deg	0.5deg	0m	2.5m	225deg	0ft/min																		
Rig Dir.	Ris. Tension	VDL	Comments																				
270.0deg	0klb	4471.0klb																					
Boats	Arrived (date/time)			Departed (date/time)			Status			Bulks													
Far Grip							Standing by on location.																
								Item		Unit		Quantity											
								Barite		MT		0											
				Gel/Bentonite				MT		MT		0											
				Cement				MT		MT		0											

Pacific Wrangler	09:50		Standing by on location.	Item	Unit	Quantity
				Barite	MT	46
				Gel/Bentonite	MT	11
				Cement	MT	0

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow	10:50 / 10:52	1 / 0	
2	Bristow	13:02 / 13:09	4 / 4	

09 Oct 2004 (GMT +10)

From: Chris Wilson
 To: Colin Allport

DRILLING MORNING REPORT # 6

Moby-1 (Vic / P-47)

Well Data							
Country	Australia	M. Depth	325.0m	Cur. Hole Size	17.500in	AFE Cost	\$ 4,164,756
Field		TVD	325.0m	Casing OD	13.365in	AFE No.	
Drill Co.	DOGC	Progress	0m	Shoe TVD	321.8m	Daily COST	\$ 321,831
Rig	Ocean Patriot	Days from spud	2.30	FIT	0ppg	Cum Cost	\$ 1,140,743
Wtr Dpth(LAT)	53.0m	Days on well	6.00	LOT	0ppg	Planned TD	625.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	Pressure testing choke and kill lines.				
RT-ML	74.5m	Planned Op	Test BOP, make up 12 1/4" BHA and run in the hole.				

Summary of Period 0000 to 2400 Hrs

Ran 13 3/8" casing, landed out 18 3/4" wellhead, cemented 13 3/8" casing, began running BOP and riser.

Operations For Period 0000 Hrs to 2400 Hrs on 09 Oct 2004

From	To	Hrs	Phse	Clis (RC)	Op	Depth	Activity Description
0000	0100	1.00	IC	P	RRC	325.0m	Held pre job safety meeting and reviewed JSA for running 13 3/8" casing. Rigged up to run same.
0100	0145	0.75	IC	P	RC	325.0m	Picked up and made up 13 3/8" float equipment. Baker locked first 3 joints. Tested shoe and float equipment
0145	0215	0.50	IC	P	RC	325.0m	Attached guide ropes to guide wires and 13 3/8" casing.
0215	0330	1.25	IC	P	RC	325.0m	Continued to pick up and make up 13 3/8" casing and ran in the hole with same.
0330	0445	1.25	IC	TP (WOE)	WOE	325.0m	Serviced top drive and pipe handler while waiting on Pacific Wrangler for no cross coupling.
0445	0900	4.25	IC	P	RC	325.0m	Continued to pick up and make up 13 3/8" casing and ran in the hole with same to 249m (laid out 1 damaged joint).
0900	1030	1.50	IC	P	RC	325.0m	Made-up wellhead joint to casing. Made-up running tool and cement stinger to 18 3/4" wellhead housing.
1030	1100	0.50	IC	P	RC	325.0m	Ran in the hole and landed out 18 3/4" wellhead. Confirmed land-out with 50klbs overpull. Bullseye reading 0.5 degrees.
1100	1130	0.50	IC	P	RC	325.0m	Made-up cement hose and deepsea express lines.
1130	1430	3.00	IC	P	CMC	325.0m	Circulated the casing with 150bbls of seawater with the cement unit. Dropped bottom plug and cement casing with 140bbls of 12.5ppg Class G lead cement and 71bbls of 15.8ppg Class G tail cement. Displaced cement with 116bbls of seawater. Bumped plugs and pressure tested casing to 2000psi. Returns observed throughout the cementing.
1430	1530	1.00	IC	P	CMC	325.0m	Rigged-down cement hose and deepsea express hoses. Released wellhead running tool. Jetted wellhead whilst pulling out of the hole. Bullseye reading 0.5 degrees.
1530	1700	1.50	IC	P	CMC	325.0m	Pulled out of the hole and laid out deepsea express equipment and wellhead running tool.
1700	1800	1.00	IC	P	HBHA	325.0m	Laid out cement head stand and 17 1/2" stabilizer. Moved rig 15m off location to run BOP and riser.
1800	1900	1.00	IC	P	BOP	325.0m	Rigged up to handle BOP and riser, adjusting brakes, changing bails and elevators and installing spider.
1900	2015	1.25	IC	P	BOP	325.0m	Held pre job safety meeting with crews and made up riser double.
2015	2130	1.25	IC	P	BOP	325.0m	Positioned BOP below rotary table, moved rig back over location to fit BOP through guide lines and nipped up riser double to BOP.
2130	2330	2.00	IC	P	BOP	325.0m	Installed guidelines and pod line clamps.
2330	2400	0.50	IC	P	BT	325.0m	Nipped up riser test plug and commenced pressure test of choke and kill lines to 300 psi for 5 minutes and 3,000 psi for 10 minutes.

Operations For Period 0000 Hrs to 0600 Hrs on 10 Oct 2004

From	To	Hrs	Phse	Clis (RC)	Op	Depth	Activity Description
0000	0115	1.25	IC	P	BOP	325.0m	Continued to test choke and kill lines to 300 psi for 5 minutes and 3,000 psi for 10 minutes. Changed seals on choke line to get test.
0115	0330	2.25	IC	P	BOP	325.0m	Picked up and made up slip joint and landing joint. Attached pod hose clamps to guide lines.
0330	0600	2.50	IC	P	BOP	325.0m	Nipped up choke, kill and booster lines.

WBM Data											Cost Today \$ 3,154			
Mud Type:	Hi vis sweeps	API FL:	12.0cc	Cl:	800.0mg/l	Solids:	8	Viscosity		100sec/qt				
Sample-From:	Active	Filter-Cake:	2/32nd"	Hard/Ca:	80.0mg/l	H2O:	92%	PV		30cp				
Time:	19:00	HTHP-FL:	0cc	MBT:	25	Oil:	0%	YP		30lb/100ft ²				
Weight:	8.70ppg	HTHP-cake:	0/32nd"	PM:	0	Sand:	0	Gels 10s		40				
Temp:	12.8C°			PF:	0.45	Glycol:	0%vol	Gels 10m		60				
				pH:	9.5	KCl:	0%	Fann 003		22				
						PHPA:	0ppb	Fann 006		24				
Comment											Fann 100			
								Fann 200		38				
								Fann 300		52				
								Fann 600		60				
										90				

Shakers, Volumes and Losses Data							Engineer : Jasdeep Singh			
Equip.	Descr.	Mesh Size	Available	731bbl	Losses	50bbl	Comments			
			Active	291bbl	Downhole	0bbl				
			Mixing	0bbl	Surf+ Equip	0bbl				
			Hole	0bbl	Dumped	50bbl				
			Slug	0bbl	De-Gasser	0bbl				
			Reserve	440bbl	De-Sander	0bbl				
			Kill	0bbl	De-Silter	0bbl				
					Centrifuge	0bbl				

Bulk Stocks								
Name				Unit	In	Used	Adjust	Balance
Barite				MT	0	16.97	0	38.6
Gel/Bentonite				MT	0	0.64	0	18.4
Drill Water				m ³	0	100.6	0	484.5
Rig Fuel				m ³	0	9.9	0	114.0
Cement				MT	0	34.83	0	59.5
Potable Water				m ³	39	36	0	171.3

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)
1	12P-160	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	
2	12P-160	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	
3	A1700	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	

Casing								
OD	LOT / FIT	Csg Shoe (MD/TVD)				Cementing		
13 3/8"	Oppg / 0ppg	321.75m / 321.75m				API Class G		

Personnel On Board										
Job Title				Personnel			Company			Pax
OIM	Pedro Johns			DOGC						44
Camp Boss	Chris Seidel			Total						9
ROV Pilot	Jason Goodwin			Fugro						4
Data Engineer	Gary Bloom			Halliburton						5
Mud Engineer	Jasdeep Singh			MI Swaco						1
Engineer	Matt Jones			Cameron						1
Cementer	Edgar Llagas			Dowell Schlumberger						2
Engineer	Scott Einam			Baker Atlas						3
Drilling Supervisor	Chris Wilson			BSOC						5
Engineer	George McCallum			Maersk						1
Engineer	Brian Toole			Petrotech						1

Personnel On Board											
								Total	76		
Marine											
Weather on 09 Oct 2004											
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period				
8.00mi	9.0kn	225deg	1023mbar	15.0C°	1.2m	225deg	0ft/min				
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments					
0.5deg	0.5deg	0m	1.5m	225deg	0ft/min	Comments					
Rig Dir.	Ris. Tension	VDL	Comments								
270.0deg	0klb	4467.0klb									
Boats	Arrived (date/time)		Departed (date/time)		Status		Bulks				
Far Grip					Receiving backload from port crane.		Item	Unit	Quantity		
Pacific Wrangler							Barite	MT	0		
							Gel/Bentonite	MT	0		
							Cement	MT	0		
Helicopter Movement					Standing by on location.		Item	Unit	Quantity		
							Barite	MT	46		
							Gel/Bentonite	MT	11		
							Cement	MT	0		
Flight #	Company		Arr/Dep. Time		Pax In/Out		Comment				
1	Bristow		13:29 / 13:36		8 / 0		Call sign: BHQ				
2	Bristow		16:15 / 16:23		0 / 6		Call sign: BHQ				

10 Oct 2004 (GMT +10)

From: Chris Wilson
To: Colin Allport

DRILLING MORNING REPORT # 7

Moby-1 (Vic / P-47)

Well Data							
Country	Australia	M. Depth	328.0m	Cur. Hole Size	12.250in	AFE Cost	\$ 4,164,756
Field		TVD	328.0m	Casing OD	13.365in	AFE No.	
Drill Co.	DOGC	Progress	3.0m	Shoe TVD	321.8m	Daily COST	\$ 226,543
Rig	Ocean Patriot	Days from spud	3.30	FIT	14.16ppg	Cum Cost	\$ 1,367,286
Wtr Dpth(LAT)	53.0m	Days on well	7.00	LOT	0ppg	Planned TD	625.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	Running in the hole with 8 1/2" BHA.				
RT-ML	74.5m	Planned Op	Drill ahead in 8 1/2" hole.				

Summary of Period 0000 to 2400 Hrs

Ran BOP stack and riser, made up 12 1/4" BHA, ran in the hole, drilled out shoe, conducted FIT.

Operations For Period 0000 Hrs to 2400 Hrs on 10 Oct 2004

From	To	Hrs	Phse	Clis (RC)	Op	Depth	Activity Description
0000	0115	1.25	IC	P	BOP	325.0m	Continued to test choke and kill lines to 300 psi for 5 minutes and 3,000 psi for 10 minutes. Changed seals on choke line to get test.
0115	0330	2.25	IC	P	BOP	325.0m	Picked up and made up slip joint and landing joint. Attached pod hose clamps to guide lines.
0330	0700	3.50	IC	P	BOP	325.0m	Nipped up choke, kill and booster lines.
0700	0900	2.00	IC	P	BOP	325.0m	Attached riser tensioners
0900	0930	0.50	IC	P	BOP	325.0m	Landed BOP and confirmed latch with 50klbs overpull. PGB slope indicator read 0 deg after landing.
0930	1200	2.50	IC	P	BOP	325.0m	Unpinned slip joint and laid out landing joint.
1200	1300	1.00	IC	P	BOP	325.0m	Installed diverter
1300	1500	2.00	IC	P	BOP	325.0m	Rigged-down riser running tools
1500	1530	0.50	IC	P	BOP	325.0m	Ran in the hole with the BOP test tool
1530	1630	1.00	IC	P	BOP	325.0m	Pressure tested the wellhead connection to 300psi for 5 minutes and 3000psi for 10 minutes. Unlatched BOP test tool and function tested diverter.
1630	1700	0.50	IC	P	BOP	325.0m	Recovered BOP test tool.
1700	1730	0.50	IC	P	BOP	325.0m	Made-up emergency hang-off tool and racked back same.
1730	2000	2.50	PH	P	TI	325.0m	Made-up 12 1/4" bit and ran in the hole. Washed down from 286 m and tagged top of cement at 295.5 m.
2000	2145	1.75	PH	P	D	325.0m	Drilled plugs, cement and shoe track and cleaned out rat hole to 325 m.
2145	2200	0.25	PH	P	D	328.0m	Drilled ahead in 12 1/4" hole from 325 m to 328 m.
2200	2245	0.75	PH	P	CIR	328.0m	Displaced well to 10 ppg KCL mud. Displaced choke and kill lines.
2245	2330	0.75	PH	P	LOT	328.0m	Pressure tested lines to 1,000 psi and performed FIT to 1.7 SG (14.16 ppg).
2330	2400	0.50	PH	P	TO	328.0m	Performed flow check, well static. Pumped slug and commenced pulling out of the hole from 328 m.

Operations For Period 0000 Hrs to 0600 Hrs on 11 Oct 2004

From	To	Hrs	Phse	Clis (RC)	Op	Depth	Activity Description
0000	0430	4.50	PH	P	HBHA	328.0m	Continued to pull out of the hole, laying down 12 1/4" BHA. Laid down excess BHA from the derrick.
0430	0600	1.50	PH	P	HBHA	328.0m	Picked up and made up 8 1/2" BHA.

WBM Data

Cost Today \$ 16,908

Mud Type:	6% KCL	API FL:	5.0cc	Cl:	30000.0mg/l	Solids:	8	Viscosity	56sec/qt
Sample-From:	Suction	Filter-Cake:	1/32nd"	Hard/Ca:	240.0mg/l	H2O:	92%	PV	26cp
Time:	22:30	HTHP-FL:	0cc	MBT:	4	Oil:	0%	YP	29lb/100ft ²
Weight:	10.00ppg	HTHP-cake:	0/32nd"	PM:	0	Sand:	0	Gels 10s	6
Temp:	12.8C°			PF:	0.15	Glycol:	0%vol	Gels 10m	13
				pH:	9.3	KCl:	6%	Fann 003	5
						PHPA:	0ppb	Fann 006	7
								Fann 100	30
								Fann 200	43
								Fann 300	55
								Fann 600	81
Comment									

Shakers, Volumes and Losses Data										Engineer : Jasdeep Singh																										
Equip.	Descr.	Mesh Size		Available	1022bbl	Losses	320bbl	Comments																												
Shaker 1	VSM Thule	4 x 105		Active	452bbl	Downhole	0bbl																													
Shaker 2	VSM Thule	4 x 105		Mixing	0bbl	Surf+ Equip	120bbl																													
Shaker 3	VSM Thule	4 x 105		Hole	190bbl	Dumped	110bbl																													
Shaker 4	VSM Thule	3 x 105, 1 x 84		Slug	0bbl	De-Gasser	0bbl																													
				Reserve	380bbl	De-Sander	0bbl																													
				Kill	0bbl	De-Siliter	0bbl																													
				Sweeps	90bbl	Centrifuge	0bbl																													
Bit # 3					Wear	I	O1	D	L	B	G	O2	R																							
Size ("):	12.25in	IADC#	2-1-5	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run																											
Mfr:	Smith	WOB(avg)	7.7kbl	No.	Size	Progress	3.0m	Cum. Progress	3.0m																											
Type:	Milled Tooth	RPM(avg)	70	3	20/32nd"	On Bottom Hrs	1.20h	Cum. On Btm Hrs	1.20h																											
Serial No.:	MJ5976	F.Rate	650gpm			IADC Drill Hrs		1.20h	Cum IADC Drill Hrs	1.20h																										
Bit Model	SVH	SPP	860psi			Total Revs		5000	Cum Total Revs	5000																										
Depth In	325.0m	HSI				ROP(avg)		2.50 m/hr	ROP(avg)	2.50 m/hr																										
Depth Out	328.0m	TFA	0.920																																	
BHA # 3																																				
Weight(Wet)	135.0klb	Length		202.6m	Torque(max)		3kft-lbs	D.C. (1) Ann Velocity																												
Wt Below Jar(Wet)	130.0klb	String		170.0klb	Torque(Off.Btm)		1kft-lbs	D.C. (2) Ann Velocity																												
		Pick-Up		170.0klb	Torque(On.Btm)		2kft-lbs	H.W.D.P. Ann Velocity																												
		Slack-Off		170.0klb				D.P. Ann Velocity																												
BHA Run Description		12 1/4" bit, bit sub, 9 1/2" Anderdrift, 3 x 9 1/2" DCs, 5 x 8" DCs, 8" jar, 12 x 5" HWDP																																		
BHA Run Comment																																				
Bulk Stocks																																				
Name					Unit		In	Used		Adjust		Balance																								
Barite					MT		0	18.75		0		19.9																								
Gel/Bentonite					MT		0	0		0		18.4																								
Drill Water					m³		0	114.6		0		369.9																								
Rig Fuel					m³		0	8.7		0		105.3																								
Cement					MT		0	0		0		59.5																								
Potable Water					m³		33.1	27.5		0		176.9																								
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)																			
1	A1700	6.50	10.00	98	65	1200	330	0	0	0	0	0	0	0	0	0																				
2	12P-160	6.50	10.00	98	67	1200	332	0	0	0	0	0	0	0	0	0																				
3	12P-160	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0																				
Personnel On Board																																				
Job Title					Personnel				Company				Pax																							
OIM				Pedro Johns				DOGC				44																								
Camp Boss				Chris Seidel				Total				9																								
ROV Pilot				Jason Goodwin				Fugro				4																								
Data Engineer				Gary Bloom				Halliburton				5																								
Mud Engineer				Jasdeep Singh				MI Swaco				1																								

Personnel On Board								
Engineer	Matt Jones		Cameron					1
Cementer	Edgar Llagas		Dowell Schlumberger					1
Engineer	Scott Einam		Baker Atlas					8
Drilling Supervisor	Chris Wilson		BSOC					6
Engineer	George McCallum		Maersk					1
Engineer	Brian Toole		Petrotech					1
			Total					81

Marine

Weather on 10 Oct 2004

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period		
12.00mi	0kn	020deg	1019mbar	15.0C°	1.0m	180deg	0ft/min		
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments			
0.5deg	0.5deg	0m	1.5m	180deg	0ft/min				
Rig Dir.	Ris. Tension	VDL	Comments						
270.0deg	296.0klb	4727.0klb							

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip		03:30	Steaming to Port Melbourne	Item	Unit	Quantity
				Barite	MT	0
				Gel/Bentonite	MT	0
Pacific Wrangler			Standing by on location	Cement	MT	0
				Item	Unit	Quantity
				Barite	MT	46
				Gel/Bentonite	MT	11
				Cement	MT	0

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow	10:17 / 10:19	8 / 1	Call sign: BHI
2	Bristow	13:05 / 13:35	5 / 7	Call sign: BHI

12 Oct 2004 (GMT +10)

From: Chris Wilson
To: Colin Allport

DRILLING MORNING REPORT # 8

Moby-1 (Vic / P-47)

Well Data							
Country	Australia	M. Depth	660.0m	Cur. Hole Size	8.500in	AFE Cost	\$ 4,164,756
Field		TVD	660.0m	Casing OD	13.365in	AFE No.	
Drill Co.	DOGC	Progress	0m	Shoe TVD	321.8m	Daily COST	\$ 292,682
Rig	Ocean Patriot	Days from spud	5.30	FIT	14.16ppg	Cum Cost	\$ 1,862,817
Wtr Dpth(LAT)	53.0m	Days on well	7.89	LOT	0ppg	Planned TD	625.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600		Conducting wireline logs.			
RT-ML	74.5m	Planned Op		Continue to conduct wireline logs.			

Summary of Period 0000 to 2400 Hrs

Pulled out of the hole with 8 1/2" BHA and racked back same, rigged up wireline equipment, ran wireline logs.

Operations For Period 0000 Hrs to 2400 Hrs on 12 Oct 2004

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0015	0.25	PH	P	HBHA	660.0m	Pulled out of the hole with 8 1/2" BHA. Racked same in the derrick.
0015	0030	0.25	PH	P	HBHA	660.0m	Retrieved EMS survey tool.
0030	0100	0.50	PH	P	HBHA	660.0m	Continued to pull out of the hole. Laid out 8 1/2" bit and bit sub.
0100	0200	1.00	E1	P	RU	660.0m	Rigged up wireline.
0200	0400	2.00	E1	P	LOG	660.0m	Picked up wireline tools for run #1 (Grand SLAM).
0400	0800	4.00	E1	P	LOG	660.0m	Loaded source and ran in the hole with wireline run #1 to 659 m.
0800	1030	2.50	E1	P	LOG	660.0m	Pulled out of the hole with wireline. Removed sources and laid down tools.
1030	1100	0.50	E1	TP (WOE)	WOO	660.0m	Cranes were shut down while waiting on helicopter.
1100	1130	0.50	E1	P	LOG	660.0m	Prepared wireline tools.
1130	1230	1.00	E1	P	LOG	660.0m	Picked up wireline tools for run #2 (RCI).
1230	2400	11.50	E1	P	LOG	660.0m	Ran in the hole with wireline and conducted logging run #2.

Operations For Period 0000 Hrs to 0600 Hrs on 13 Oct 2004

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0600	6.00	E1	P	LOG	660.0m	(IN PROGRESS) Continued to conduct logging run #2 (RCI).

WBM Data							
Cost Today \$ 1,834							
Mud Type:	6% KCL PHPA	API FL:	5.0cc	Cl:	37500.0mg/l	Solids:	10
Sample-From:	Pit #3	Filter-Cake:	1/32nd"	Hard/Ca:	320.0mg/l	H2O:	90%
Time:	19:30	HTHP-FL:	0cc	MBT:	10	Oil:	0%
Weight:	10.10ppg	HTHP-cake:	0/32nd"	PM:	0	Sand:	0
Temp:	26.7C°			PF:	0.05	Glycol:	0%vol
				pH:	9	KCl:	6%
						PHPA:	1ppb
Comment							
						Viscosity	55sec/qt
						PV	28cp
						YP	37lb/100ft²
						Gels 10s	7
						Gels 10m	13
						Fann 003	6
						Fann 006	9
						Fann 100	37
						Fann 200	53
						Fann 300	65
						Fann 600	93

Shakers, Volumes and Losses Data							
				Engineer : Jasdeep Singh			
Equip.	Descr.	Mesh Size	Available	820bbl	Losses	0bbl	Comments
Shaker 1	VSM Thule	4 x 105	Active	506bbl	Downhole	0bbl	
Shaker 2	VSM Thule	4 x 105	Mixing	0bbl	Surf+ Equip	0bbl	
Shaker 3	VSM Thule	4 x 105	Hole	294bbl	Dumped	0bbl	
Shaker 4	VSM Thule	3 x 105, 1 x 84	Slug	0bbl	De-Gasser	0bbl	
			Reserve	20bbl	De-Sander	0bbl	
			Kill	0bbl	De-Silter	0bbl	
					Centrifuge	0bbl	

Survey								
MD	Incl Deg	Corr. Az (deg)	TVD	'V' Sect	Dogleg (deg/100ft)	N/S	E/W	Tool Type
421.00	0	0	0	0	0	0	0	
449.00	0	0	0	0	0	0	0	
476.00	2.00	0	0	0	0	0	0	
504.00	1.00	0	0	0	0	0	0	
534.00	1.00	0	0	0	0	0	0	

Survey								
MD	Incl Deg	Corr. Az (deg)	TVD	'V' Sect	Dogleg (deg/100ft)	N/S	E/W	Tool Type
586.24	0.60	273.01	586.2	-1.08	0.19	0	-0.68	ems
614.91	0.68	287.14	614.9	-1.03	0.18	0	-1.00	ems
643.58	0.79	301.27	643.6	-0.87	0.22	0	-1.33	ems
654.70	1.01	315.40	654.7	-0.76	0.84	0	-1.46	ems
660.00	1.01	315.40	660.0	-0.70	0	0	-1.53	ems

Bulk Stocks								
Name			Unit		In	Used	Adjust	Balance
Barite			MT		0	3.83	0	57.4
Gel/Bentonite			MT		0	0	0	18.3
Drill Water			m³		0	42.1	0	252.9
Rig Fuel			m³		0	8.4	0	180.2
Cement			MT		0	0	0	59.5
Potable Water			m³		28	24.3	0	180.6

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)
1	A1700	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	0
2	12P-160	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	0
3	12P-160	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	0

Personnel On Board									
Job Title			Personnel			Company			Pax
OIM			Sean De Freitas			DOGC			44
Camp Boss			Chris Seidel			Total			9
ROV Pilot			Jason Goodwin			Fugro			4
Data Engineer			Gary Bloom			Halliburton			5
Mud Engineer			Jasdeep Singh			MI Swaco			1
Engineer			Matt Jones			Cameron			1
Cementer			Edgar Llagas			Dowell Schlumberger			1
Engineer			Scott Einam			Baker Atlas			8
Drilling Supervisor			Chris Wilson			BSOC			5
Engineer			George McCallum			Maersk			1
Engineer			Brian Toole			Petrotech			2
Casing Cutter			Tom Armstrong			Smith			1
Total									82

Marine								
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Weather on 12 Oct 2004								
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	
12.00mi	15.0kn	090deg	1008mbar	18.0C°	1.0m	270deg	0ft/min	
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		
0.1deg	0.1deg	0.10m	0m	270deg	0ft/min	Comments		
Rig Dir.	Ris. Tension	VDL						
270.0deg	252.0kblb	4330.0kblb						
Boats	Arrived (date/time)		Departed (date/time)		Status	Bulks		
Far Grip					Steaming back to Ocean Patriot from Port Melbourne.	Item	Unit	Quantity
						Barite	MT	0
						Gel/Bentonite	MT	0
						Cement	MT	0
Pacific Wrangler					Standing by on location	Item	Unit	Quantity
						Barite	MT	0
						Gel/Bentonite	MT	11
						Cement	MT	0
Helicopter Movement								
Flight #	Company		Arr/Dep. Time		Pax In/Out	Comment		
1	Bristow		10:59 / 11:07		7 / 6	Call sign: BHQ		

12 Oct 2004 (GMT +10)

From: Chris Wilson
To: Colin Allport

DRILLING MORNING REPORT # 9

Moby-1 (Vic / P-47)

Well Data							
Country	Australia	M. Depth	660.0m	Cur. Hole Size	8.500in	AFE Cost	\$ 4,164,756
Field		TVD	660.0m	Casing OD	13.365in	AFE No.	
Drill Co.	DOGC	Progress	0m	Shoe TVD	321.8m	Daily COST	\$ 292,682
Rig	Ocean Patriot	Days from spud	5.30	FIT	14.16ppg	Cum Cost	\$ 1,917,827
Wtr Dpth(LAT)	53.0m	Days on well	9.00	LOT	0ppg	Planned TD	625.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600		Conducting wireline logs.			
RT-ML	74.5m	Planned Op		Continue to conduct wireline logs.			

Summary of Period 0000 to 2400 Hrs

Pulled out of the hole with 8 1/2" BHA and racked back same, rigged up wireline equipment, ran wireline logs.

Operations For Period 0000 Hrs to 2400 Hrs on 12 Oct 2004

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0015	0.25	PH	P	HBHA	660.0m	Pulled out of the hole with 8 1/2" BHA. Racked same in the derrick.
0015	0030	0.25	PH	P	HBHA	660.0m	Retrieved EMS survey tool.
0030	0100	0.50	PH	P	HBHA	660.0m	Continued to pull out of the hole. Laid out 8 1/2" bit and bit sub.
0100	0200	1.00	E1	P	RU	660.0m	Rigged up wireline.
0200	0400	2.00	E1	P	LOG	660.0m	Picked up wireline tools for run #1 (Grand SLAM).
0400	0800	4.00	E1	P	LOG	660.0m	Loaded source and ran in the hole with wireline run #1 to 659 m.
0800	1030	2.50	E1	P	LOG	660.0m	Pulled out of the hole with wireline. Removed sources and laid down tools.
1030	1100	0.50	E1	TP (WOE)	WOO	660.0m	Cranes were shut down while waiting on helicopter.
1100	1130	0.50	E1	P	LOG	660.0m	Prepared wireline tools.
1130	1230	1.00	E1	P	LOG	660.0m	Picked up wireline tools for run #2 (RCI).
1230	2400	11.50	E1	P	LOG	660.0m	Ran in the hole with wireline and conducted logging run #2.

Operations For Period 0000 Hrs to 0600 Hrs on 13 Oct 2004

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0600	6.00	E1	P	LOG	660.0m	Continued to conduct logging run #2 (RCI).

WBM Data							
Cost Today \$ 1,834							
Mud Type:	6% KCL PHPA	API FL:	5.0cc	Cl:	37500.0mg/l	Solids:	10 Viscosity
Sample-From:	Pit #3	Filter-Cake:	1/32nd"	Hard/Ca:	320.0mg/l	H2O:	55sec/qt PV
Time:	19:30	HTHP-FL:	0cc	MBT:	10	Oil:	28cp YP
Weight:	10.10ppg	HTHP-cake:	0/32nd"	PM:	0	Sand:	37lb/100ft ² Gels 10s
Temp:	26.7C°			PF:	0.05	Glycol:	7 Gels 10m
				pH:	9	KCl:	13 Fann 003
						PHPA:	6 Fann 006
Comment							9 Fann 100
							37 Fann 200
							53 Fann 300
							65 Fann 600
							93

Shakers, Volumes and Losses Data					Engineer : Jasdeep Singh		
Equip.	Descr.	Mesh Size	Available	820bbl	Losses	0bbl	Comments
Shaker 1	VSM Thule	4 x 105	Active	506bbl	Downhole	0bbl	
Shaker 2	VSM Thule	4 x 105	Mixing	0bbl	Surf+ Equip	0bbl	
Shaker 3	VSM Thule	4 x 105	Hole	294bbl	Dumped	0bbl	
Shaker 4	VSM Thule	3 x 105, 1 x 84	Slug	0bbl	De-Gasser	0bbl	
			Reserve	20bbl	De-Sander	0bbl	
			Kill	0bbl	De-Silter	0bbl	
					Centrifuge	0bbl	

Bulk Stocks																											
Name				Unit		In	Used	Adjust	Balance																		
Barite				MT		0	3.83	0		57.3																	
Gel/Bentonite				MT		0	0	0		18.4																	
Drill Water				m³		0	42.1	0		252.9																	
Rig Fuel				m³		0	8.4	0		180.2																	
Cement				MT		0	0	0		59.5																	
Potable Water				m³		28	24.3	0		180.6																	
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)										
1	A1700	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	0										
2	12P-160	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	0										
3	12P-160	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	0										
Personnel On Board																											
Job Title				Personnel				Company			Pax																
OIM			Sean De Freitas				DOGC				44																
Camp Boss			Chris Seidel				Total				9																
ROV Pilot			Jason Goodwin				Fugro				4																
Data Engineer			Gary Bloom				Halliburton				5																
Mud Engineer			Jasdeep Singh				MI Swaco				1																
Engineer			Matt Jones				Cameron				1																
Cementer			Edgar Llagas				Dowell Schlumberger				1																
Engineer			Scott Einam				Baker Atlas				8																
Drilling Supervisor			Chris Wilson				BSOC				5																
Engineer			George McCallum				Maersk				1																
Engineer			Brian Toole				Petrotech				2																
Casing Cutter			Tom Armstrong				Smith				1																
										Total	82																
Marine																											
Weather on 12 Oct 2004																											
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period																				
12.00mi	15.0kn	090deg	1008mbar	18.0C°	1.0m	270deg	0ft/min																				
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments																					
0.1deg	0.1deg	0.10m	0m	270deg	0ft/min																						
Rig Dir.	Ris. Tension	VDL	Comments																								
270.0deg	252.0klb	4330.0klb																									
Boats			Arrived (date/time)			Departed (date/time)		Status		Bulks																	
Far Grip							Steaming back to Ocean Patriot from Port Melbourne.		Item		Unit		Quantity														
									Barite	MT			0														
									Gel/Bentonite	MT			0														
Pacific Wrangler							Standing by on location		Cement	MT			0														
									Item		Unit		Quantity														
									Barite	MT			0														
Helicopter Movement																											
Flight #	Company		Arr/Dep. Time			Pax In/Out			Comment																		
1	Bristow		10:59 / 11:07			7 / 6			Call sign: BHQ																		

13 Oct 2004 (GMT +10)

From: Chris Wilson
 To: Colin Allport

DRILLING MORNING REPORT # 10

Moby-1 (Vic / P-47)

Well Data							
Country	Australia	M. Depth	660.0m	Cur. Hole Size	8.500in	AFE Cost	\$ 4,164,756
Field		TVD	660.0m	Casing OD	13.365in	AFE No.	
Drill Co.	DOGC	Progress	0m	Shoe TVD	321.8m	Daily COST	\$ 310,573
Rig	Ocean Patriot	Days from spud	6.30	FIT	14.16ppg	Cum Cost	\$ 2,228,400
Wtr Dpth(LAT)	53.0m	Days on well	10.00	LOT	0ppg	Planned TD	625.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	Pulling out of the hole after setting cement plug #2.				
RT-ML	74.5m	Planned Op	Set remaining cement plugs, pull BOP and cut casing.				

Summary of Period 0000 to 2400 Hrs

Ran wireline logs, (RCI, VSP and Side Wall Cores), rigged down wireline and ran into the hole with 2 7/8" cement stinger.

Operations For Period 0000 Hrs to 2400 Hrs on 13 Oct 2004

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	1000	10.00	E1	P	LOG	660.0m	Continued to conduct logging run #2 (RCI).
1000	1100	1.00	E1	P	LOG	660.0m	Pulled out of the hole with RCI tools and laid down same.
1100	1200	1.00	E1	P	LOG	660.0m	Removed samples from RCI tools. Checked samples for H2S - none present. Picked up tools for logging run #3 (VSP).
1200	1800	6.00	E1	P	LOG	660.0m	Ran in the hole with VSP tools and conducted logging run #3 from 650 m to 80 m.
1800	1900	1.00	E1	P	LOG	660.0m	Pulled out of the hole with VSP tools and laid down same.
1900	1945	0.75	E1	P	LOG	660.0m	Made up Side Wall Core tool.
1945	2130	1.75	E1	P	LOG	660.0m	Ran in the hole with Side Wall Core tool and conducted logging run #4.
2130	2200	0.50	E1	P	LOG	660.0m	Pulled out of the hole with Side Wall Core tool and laid down same. 25 cores recovered from 25 sampling attempts.
2200	2230	0.50	E1	P	RD	660.0m	Rigged down wireline equipment.
2230	2400	1.50	PA	P	TI	660.0m	Picked up and ran in the hole with 2 7/8" tubing cement stinger.

Operations For Period 0000 Hrs to 0600 Hrs on 14 Oct 2004

From	To	Hrs	Phse	Cls (RC)	Op	Depth	Activity Description
0000	0030	0.50	PA	P	TI	660.0m	Continued to run in the hole with 2 7/8" tubing cement stinger.
0030	0215	1.75	PA	P	TI	660.0m	Ran in the hole with 2 7/8" tubing on 5" drill pipe to 650 m.
0215	0230	0.25	PA	P	CIR	660.0m	Made up cement hose and circulated bottoms up.
0230	0330	1.00	PA	P	CMP	660.0m	Broke circulation with cement unit, tested surface lines to 2000 psi, mixed and pumped cement.
0330	0400	0.50	PA	P	TO	660.0m	Pulled out of the hole to 490 m.
0400	0430	0.50	PA	P	CIR	660.0m	Circulated bottoms up and spotted 50 bbl pill.
0430	0500	0.50	PA	P	TO	660.0m	Pulled out of the hole to 370 m.
0500	0600	1.00	PA	P	CMP	660.0m	Broke circulation with cement unit and tested surface lines to 2000 psi. Mixed and pumped cement.

WBM Data										Cost Today \$ 0		
Mud Type:	6% KCL PHPA	API FL:	5.0cc	Cl:	37000.0mg/l	Solids:	10	Viscosity	57sec/qt	PV	27cp	
Sample-From:	Pit #3	Filter-Cake:	1/32nd"	Hard/Ca:	280.0mg/l	H2O:	90%	YP		Gels 10s	7	34lb/100ft ²
Time:	19:30	HTHP-FL:	0cc	MBT:	10	Oil:	0%	Gels 10m	11	Fann 003	6	
Weight:	10.10ppg	HTHP-cake:	0/32nd"	PM:	0	Sand:	0	Fann 006	8	Fann 100	34	
Temp:	24.4°C			PF:	0.08	Glycol:	0%vol	Fann 200	50	Fann 300	61	
				pH:	9	KCl:	6%	Fann 600	88	PHPA:	1ppb	
Comment												

Shakers, Volumes and Losses Data							Engineer : Jasdeep Singh		
Equip.	Descr.	Mesh Size	Available	820bbl	Losses	0bbl	Comments		
Shaker 1	VSM Thule	4 x 105	Active Mixing Hole Slug Reserve Kill	506bbl	Downhole	0bbl			
Shaker 2	VSM Thule	4 x 105		0bbl	Surf+ Equip	0bbl			
Shaker 3	VSM Thule	4 x 105		294bbl	Dumped	0bbl			
Shaker 4	VSM Thule	3 x 105, 1 x 84		0bbl	De-Gasser	0bbl			
				20bbl	De-Sander	0bbl			
				0bbl	De-Siliter	0bbl			
					Centrifuge	0bbl			

Bulk Stocks							
Name			Unit	In	Used	Adjust	Balance
Barite			MT	0	0	0	57.3
Gel/Bentonite			MT	0	0	0	18.4
Drill Water			m³	0	0	0	252.9
Rig Fuel			m³	0	7.3	0	172.9
Cement			MT	48.71	0	0	108.2
Potable Water			m³	28	13.5	0	195.1

Pumps							Slow Pump Data										
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)
1	A1700	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	
2	12P-160	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	
3	12P-160	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	

Personnel On Board									
Job Title			Personnel			Company			Pax
OIM			Sean De Freitas			DOGC			44
Camp Boss			Chris Seidel			Total			9
ROV Pilot			Jason Goodwin			Fugro			4
Data Engineer			Gary Bloom			Halliburton			2
Mud Engineer			Jasdeep Singh			MI Swaco			1
Engineer			Matt Jones			Cameron			1
Cementer			Edgar Llagas			Dowell Schlumberger			3
Engineer			Scott Einam			Baker Atlas			8
Drilling Supervisor			Chris Wilson			BSOC			5
Engineer			George McCallum			Maersk			1
Engineer			Brian Toole			Petrotech			2
Casing Cutter			Tom Armstrong			Smith			1
QC Surveyor			John Harkenhoff			ECL			1
Surveyor			Razak Risah			Fugro			2
Crane Tech.			Shane Winslow			Liebherr Cranes			1
									Total 85

Marine											
Weather on 13 Oct 2004											
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period				
6.00mi	5.0kn	210deg	1003mbar	17.0C°	0.8m	203deg	0ft/min				
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments					
0.2deg	0.2deg	0.20m	0.5m	225deg	0ft/min						
Rig Dir.	Ris. Tension	VDL	Comments								
270.0deg	252.0klb	4447.0klb									

Boats		Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip		05:00		Standing by on location	Item	Unit	Quantity
					Barite	MT	0
Pacific Wrangler				Standing by on location	Gel/Bentonite	MT	84
					Cement	MT	36
					Barite	MT	0
					Gel/Bentonite	MT	11
					Cement	MT	0

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow	09:40 / 09:48	6 / 3	Call sign: BHI

14 Oct 2004 (GMT +10)

From: Chris Wilson
 To: Colin Allport

DRILLING MORNING REPORT # 11

Moby-1 (Vic / P-47)

Well Data							
Country	Australia	M. Depth	660.0m	Cur. Hole Size	8.500in	AFE Cost	\$ 4,164,756
Field		TVD	660.0m	Casing OD	13.365in	AFE No.	
Drill Co.	DOGC	Progress	0m	Shoe TVD	321.8m	Daily COST	\$ 327,608
Rig	Ocean Patriot	Days from spud	7.30	FIT	14.16ppg	Cum Cost	\$ 2,556,008
Wtr Dpth(LAT)	53.0m	Days on well	11.00	LOT	0ppg	Planned TD	625.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	Pulling BOP stack.				
RT-ML	74.5m	Planned Op	Planned Op	Pull BOP stack. Cut wellhead. Pull anchors.			

Summary of Period 0000 to 2400 Hrs

Set cement plugs 1 and 2. Set cement retainer and cement plug 3. Ran in the hole to retrieve wear bushing from wellhead.

Operations For Period 0000 Hrs to 2400 Hrs on 14 Oct 2004

From	To	Hrs	Phse	Clis (RC)	Op	Depth	Activity Description
0000	0030	0.50	PA	P	TI	660.0m	Continued to run in the hole with 2 7/8" tubing cement stinger.
0030	0215	1.75	PA	P	TI	660.0m	Ran in the hole with 2 7/8" tubing on 5" drill pipe to 650 m.
0215	0230	0.25	PA	P	CIR	660.0m	Made up cement hose and circulated bottoms up. No gas.
0230	0330	1.00	PA	P	CMP	660.0m	Broke circulation with cement unit, tested surface lines to 2000 psi, mixed and pumped 42.8 bbl of 15.8 ppg class G cement slurry setting plug #1 from 660 m to 505 m.
0330	0400	0.50	PA	P	TO	660.0m	Pulled out of the hole to 490 m.
0400	0430	0.50	PA	P	CIR	660.0m	Circulated bottoms up, dumped 5 bbl contaminated mud, and spotted 50 bbl hi-vis pill at 490 m.
0430	0500	0.50	PA	P	TO	660.0m	Pulled out of the hole to 370 m.
0500	0600	1.00	PA	P	CMP	660.0m	Made up cement hose, broke circulation with cement unit and tested surface lines to 2000 psi. Mixed and pumped 43 bbl of 15.8 ppg class G cement slurry setting plug #2 from 370 m to 270 m.
0600	0630	0.50	PA	P	CIR	660.0m	Pulled out of the hole from 370 m to 230 m and circulated bottoms up. No cement to surface.
0630	0700	0.50	PA	P	TO	660.0m	Pulled out of the hole from 230 m to 164 m laying out 5" drill pipe.
0700	0830	1.50	PA	P	TO	660.0m	Continued to pull out of the hole from 164 m laying out 2 7/8" tubing.
0830	1130	3.00	PA	P	HBHA	660.0m	Broke down 8 1/2" BHA from derrick. Laid out Anderdrift, NMDC, stabilizer, 12 x 6 1/2" DCs, jar and 1 joint of 5" HWDP.
1130	1245	1.25	PA	P	TI	660.0m	Ran in the hole with open end 5" drill pipe and tagged top of cement plug #2 at 259 m with 5k weight down.
1245	1315	0.50	PA	P	PT	660.0m	Spaced out and pressure tested casing against lower annular to 500 psi. Test OK.
1315	1500	1.75	PA	P	TO	660.0m	Pulled out of the hole from 259 m laying out 5" drill pipe.
1500	1600	1.00	PA	P	TI	660.0m	Picked up 13 3/8" cement retainer and ran in the hole to 91 m hang up depth.
1600	1645	0.75	PA	TP (PKR)	TI	660.0m	Made several attempts to work packer through swedge including rocking the pipe and closing the annular. Turned pipe to the left 1/3 turn and successfully worked through.
1645	1730	0.75	PA	P	SPK	660.0m	Continued to run in the hole with cement retainer. Set same with 15 right-hand turns. Applied 40k down and then 40k overpull. Applied 45k down and then 45k overpull. Returned to neutral weight and released retainer from running tool with 10 right-hand turns.
1730	1815	0.75	PA	P	PT	660.0m	Made up cement hose and broke circulation with cement unit. Tested surface lines to 1,000 psi.
1815	1945	1.50	PA	P	CIR	660.0m	Displaced choke and kill lines and booster line to inhibited sea water. Displaced hole to inhibited sea water.
1945	2015	0.50	PA	P	CMP	660.0m	Tested cement retainer plug to 1,000 psi with cement unit, test OK. Pumped 30 bbl of 15.8 ppg class G cement slurry, setting cement plug #3 from 160 m to 100 m.
2015	2200	1.75	PA	P	TO	660.0m	Pulled out of the hole from 160 m laying out 5" drill pipe and 5" HWDP. Laid out cement retainer running tool and cement stand.
2200	2400	2.00	PA	P	TI	660.0m	Picked up wellhead jetting tool and wear bushing retrieval tool. Ran in the hole with same to 74 m while jetting stack and wellhead. Landed out wear bushing retrieval tool with 10k down and picked up with 35k overpull.

Operations For Period 0000 Hrs to 0600 Hrs on 15 Oct 2004

From	To	Hrs	Phse	Cl (RC)	Op	Depth	Activity Description
0000	0030	0.50	PA	P	TO	660.0m	Continued to pull out of the hole with wear bushing, running tool and jetting tool, laid out same.
0030	0130	1.00	PA	P	RU	660.0m	Rigged up riser handling equipment.
0130	0215	0.75	PA	P	BOP	660.0m	Installed diverter running tool.
0215	0315	1.00	PA	P	BOP	660.0m	Nipped down diverter control lines, pulled and laid out diverter.
0315	0345	0.50	PA	P	BOP	660.0m	Picked up riser landing joint and nipped up same to slip joint.
0345	0430	0.75	PA	P	BOP	660.0m	Closed slip joint.
0430	0500	0.50	PA	P	BOP	660.0m	Unlatched the BOP.
0500	0600	1.00	PA	P	BOP	660.0m	Removed storm loops and commenced nipple down of choke and kill lines.

WBM Data								Cost Today \$ 2,076			
Mud Type:	6% KCL PHPA	API FL:	5.2cc	Cl:	35000.0mg/l	Solids:	10	Viscosity	55sec/qt		
Sample-From:	Pit #3	Filter-Cake:	1/32nd"	Hard/Ca:	280.0mg/l	H2O:	90%	PV	24cp		
Time:	06:35	HTHP-FL:	0cc	MBT:	10	Oil:	0%	YP	28lb/100ft ²		
Weight:	10.10ppg	HTHP-cake:	0/32nd"	PM:	0	Sand:	0	Gels 10s	5		
Temp:	26.7C°			PF:	0.3	Glycol:	0%vol	Fann 003	4		
				pH:	9.5	KCl:	5.5%	Fann 006	6		
						PHPA:	1ppb	Fann 100	29		
Comment								Fann 200	42		
								Fann 300	52		
								Fann 600	76		

Shakers, Volumes and Losses Data								Engineer : Jasdeep Singh			
Equip.	Descr.	Mesh Size	Available	111bbl	Losses	711bbl	Comments				
Shaker 1	VSM Thule	4 x 105	Active	111bbl	Downhole	0bbl					
Shaker 2	VSM Thule	4 x 105	Mixing	0bbl	Surf+ Equip	0bbl					
Shaker 3	VSM Thule	4 x 105	Hole	0bbl	Dumped	711bbl					
Shaker 4	VSM Thule	3 x 105, 1 x 84	Slug	0bbl	De-Gasser	0bbl					
			Reserve	0bbl	De-Sander	0bbl					
			Kill	0bbl	De-Siliter	0bbl					
					Centrifuge	0bbl					

Bulk Stocks								
Name				Unit	In	Used	Adjust	Balance
Barite				MT	0	0	0	57.3
Gel/Bentonite				MT	0	0	0	18.4
Drill Water				m ³	0	36.6	0	216.3
Rig Fuel				m ³	0	19.6	0	153.3
Cement				MT	0	24.85	0	83.3
Potable Water				m ³	29	31.2	0	192.9

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)
1	A1700	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	0
2	12P-160	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	0
3	12P-160	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	0

Personnel On Board																
Job Title				Personnel				Company				Pax				
OIM				Sean De Freitas				DOGC				46				
Camp Boss				Chris Seidel				Total				8				
ROV Pilot				Jason Goodwin				Fugro				4				
Data Engineer				Gary Bloom				Halliburton				2				
Mud Engineer				Jasdeep Singh				MI Swaco				1				

Personnel On Board								
Engineer	Matt Jones		Cameron					1
Cementer	Edgar Llagas		Dowell Schlumberger					3
Engineer	Scott Einam		Baker Atlas					8
Drilling Supervisor	Chris Wilson		BSOC					4
Casing Cutter	Tom Armstrong		Smith					1
QC Surveyor	John Harkenhoff		ECL					1
Surveyor	Razak Risah		Fugro					2
Crane Tech.	Shane Winslow		Liebherr Cranes					1
			Total					82

Marine

Weather on 14 Oct 2004

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period		
5.00mi	5.0kn	260deg	1003mbar	16.0C°	1.0m	260deg	0ft/min		
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments			
0.2deg	0.2deg	0.10m	1.5m	225deg	0ft/min				
Rig Dir.	Ris. Tension	VDL	Comments						
270.0deg	252.0kblb	4572.0kblb							
Boats	Arrived (date/time)		Departed (date/time)		Status	Bulks			
Far Grip					Standing by on location	Item	Unit	Quantity	
						Barite	MT	0	
						Gel/Bentonite	MT	84	
Pacific Wrangler						Cement	MT	36	
					Standing by on location	Item	Unit	Quantity	
						Barite	MT	0	
						Gel/Bentonite	MT	11	
						Cement	MT	0	

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow	09:54 / 10:05	8 / 8	Call sign: BHI
2	Bristow	13:28 / 13:40	4 / 7	Call sign: BHI

DRILLING MORNING REPORT # 12
Moby-1 (Vic / P-47)

15 Oct 2004 (GMT +10)

From: Chris Wilson
 To: Colin Allport

Well Data							
Country	Australia	M. Depth	660.0m	Cur. Hole Size	8.500in	AFE Cost	\$ 4,164,756
Field		TVD	660.0m	Casing OD	13.365in	AFE No.	
Drill Co.	DOGC	Progress	0m	Shoe TVD	321.8m	Daily COST	\$ 306,421
Rig	Ocean Patriot	Days from spud	8.30	FIT	14.16ppg	Cum Cost	\$ 2,862,429
Wtr Dpth(LAT)	53.0m	Days on well	12.00	LOT	0ppg	Planned TD	625.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	Cutting 20" and 30" casing.				
RT-ML	74.5m	Planned Op	Cut casing, retrieve PGB, TGB and casing stubs/wellhead housings. Pull anchors.				

Summary of Period 0000 to 2400 Hrs

Retrieved wear bushing, began pulling riser and BOP, unlatched BOP, waited on weather, continued pulling riser and BOP.

Operations For Period 0000 Hrs to 2400 Hrs on 15 Oct 2004

From	To	Hrs	Phse	Clis (RC)	Op	Depth	Activity Description
0000	0030	0.50	PA	P	TO	660.0m	Continued to pull out of the hole with wear bushing, running tool and jetting tool, laid out same.
0030	0130	1.00	PA	P	RU	660.0m	Rigged up riser handling equipment.
0130	0215	0.75	PA	P	BOP	660.0m	Installed diverter running tool.
0215	0315	1.00	PA	P	BOP	660.0m	Nipped down diverter control lines, pulled and laid out diverter.
0315	0345	0.50	PA	P	BOP	660.0m	Picked up riser landing joint and nipped up same to slip joint.
0345	0430	0.75	PA	P	BOP	660.0m	Closed slip joint.
0430	0500	0.50	PA	P	BOP	660.0m	Unlatched the BOP.
0500	0800	3.00	PA	P	BOP	660.0m	Removed storm loops and nipped down choke, kill and booster lines.
0800	0830	0.50	PA	P	BOP	660.0m	Locked and secured SDL ring.
0830	0930	1.00	PA	P	BOP	660.0m	Laid out riser landing joint. Pulled slip joint.
0930	1000	0.50	PA	TP (WOE)	WOE	660.0m	Operation (cranes) shut down due to helicopter operations.
1000	1030	0.50	PA	P	BOP	660.0m	Laid out slip joint.
1030	2330	13.00	PA	TP (WEA)	WOW	660.0m	Operation shut down due to adverse weather conditions: 11:00 Wind 35-40 kn, Seas 2 m, Swell 3 m. 14:00 Wind 40 kn, Seas 2 m, Swell 3 m. 16:00 Wind 30 kn, Seas 2.5 m, Swell 2.5 m. 18:00 Wind 30 kn, Seas 1.5 m, Swell 2.3 m. 20:00 Wind 30 kn, Seas 2.5 m, Swell 3 m. 23:00 Wind 30 kn, Seas 2 m, Swell 3 m. Deballasted rig to 22.5 m draft at 20:30 to lift bottom of BOP carrier above wave height. Cleaned mud pits and sand traps. Flushed all surface lines with clean sea water. Resumed operations, pulled BOP stack through splash zone and landed out on carrier.
2330	2400	0.50	PA	P	BOP	660.0m	

Operations For Period 0000 Hrs to 0600 Hrs on 16 Oct 2004

From	To	Hrs	Phse	Clis (RC)	Op	Depth	Activity Description
0000	0100	1.00	PA	P	BOP	660.0m	Continued pulling BOP. Landed same on carrier. Removed guide wires from BOP guide posts in moon pool.
0100	0130	0.50	PA	P	BOP	660.0m	Pulled riser double and moved BOP clear to starboard of moonpool.
0130	0215	0.75	PA	P	BOP	660.0m	Laid out riser double.
0215	0300	0.75	PA	P	HBHA	660.0m	Picked up 20" x 30" spear and cutting assembly. Checked torque on all connections.
0300	0500	2.00	PA	P	TI	660.0m	Ran in the hole with cutting tool. Stabbed into 18 3/4" wellhead with assistance from ROV.
0500	0515	0.25	PA	P	MC	660.0m	Commenced cutting 20" casing.
0515	0600	0.75	PA	TP (VEQ)	MC	660.0m	20" casing cut within 10 minutes. ROV noticed 18 3/4" housing spin approximately 1/4 turn to the right and halt, soon after 18 3/4" housing pulled free of 30" housing and rotated with cutter. Began pulling out of the hole with 18 3/4" housing and 20" cut off stub.

Bulk Stocks																											
Name				Unit		In	Used	Adjust	Balance																		
Barite				MT		0	0	0		57.3																	
Gel/Bentonite				MT		0	0	0		18.4																	
Drill Water				m³		0	30	0		186.3																	
Rig Fuel				m³		0	3.2	0		150.1																	
Cement				MT		0	0	0		83.3																	
Potable Water				m³		29	28.7	0		193.2																	
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)										
1	A1700	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	0										
2	12P-160	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	0										
3	12P-160	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	0										
Personnel On Board																											
Job Title				Personnel				Company			Pax																
OIM				Sean De Freitas				DOGC			47																
Camp Boss				Chris Seidel				Total			8																
ROV Pilot				Jason Goodwin				Fugro			4																
Data Engineer				Gary Bloom				Halliburton			2																
Mud Engineer				Jasdeep Singh				MI Swaco			1																
Engineer				Matt Jones				Cameron			1																
Cementer				Edgar Llagas				Dowell Schlumberger			2																
Drilling Supervisor				Chris Wilson				BSOC			3																
Casing Cutter				Tom Armstrong				Smith			1																
QC Surveyor				John Harkenhoff				ECL			1																
Surveyor				Razak Risah				Fugro			2																
Master				Leon Barwell				Farstad			2																
Master - MO47				Kim Lyons				Offshore			8																
Crane Tech				Steve Winslow				Liebherr Cranes			1																
										Total	83																
Marine																											
Weather on 15 Oct 2004																											
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period																				
9.00mi	25.0kn	230deg	1019mbar	10.0C°	1.5m	230deg	0ft/min																				
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments																					
0.3deg	0.3deg	0.10m	2.5m	250deg	0ft/min																						
Rig Dir.	Ris. Tension	VDL	Comments																								
270.0deg	0klb	4368.0klb																									
Boats			Arrived (date/time)		Departed (date/time)		Status		Bulks																		
Far Grip								At standby on location			Item	Unit	Quantity														
											Barite	MT	0														
											Gel/Bentonite	MT	84														
Pacific Wrangler								At close standby on location (men working over water).			Cement	MT	36														
											Item	Unit	Quantity														
											Barite	MT	0														
											Gel/Bentonite	MT	11														
											Cement	MT	0														
Helicopter Movement																											
Flight #	Company		Arr/Dep. Time		Pax In/Out		Comment																				
1	Bristow		09:55 / 10:05		7 / 8		Call sign: BHI Call sign: BHQ																				
2	Bristow		14:00 / 14:10		8 / 6																						

16 Oct 2004 (GMT +10)

From: Chris Wilson
 To: Colin Allport

DRILLING MORNING REPORT # 13

Moby-1 (Vic / P-47)

Well Data							
Country	Australia	M. Depth	660.0m	Cur. Hole Size	8.500in	AFE Cost	\$ 4,164,756
Field		TVD	660.0m	Casing OD	13.365in	AFE No.	
Drill Co.	DOGC	Progress	0m	Shoe TVD	321.8m	Daily COST	\$ 298,701
Rig	Ocean Patriot	Days from spud	9.30	FIT	14.16ppg	Cum Cost	\$ 3,161,130
Wtr Dpth(LAT)	53.0m	Days on well	13.00	LOT	0ppg	Planned TD	625.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	Pulling anchors.				
RT-ML	74.5m	Planned Op	Anchor handling, commence tow to Martha-1 location.				

Summary of Period 0000 to 2400 Hrs

Completed pulling BOP and riser, cut casing and retrieved PGB and TGB, deballasted rig while commencing anchor handling.

Operations For Period 0000 Hrs to 2400 Hrs on 16 Oct 2004

From	To	Hrs	Phse	Clis (RC)	Op	Depth	Activity Description
0000	0100	1.00	PA	P	BOP	660.0m	Continued pulling BOP. Landed same on carrier. Removed guide wires from BOP guide posts in moon pool.
0100	0130	0.50	PA	P	BOP	660.0m	Pulled riser double and moved BOP clear to starboard of moonpool.
0130	0215	0.75	PA	P	BOP	660.0m	Laid out riser double.
0215	0300	0.75	PA	P	RD	660.0m	Laid out riser handling equipment.
0300	0500	2.00	PA	P	TI	660.0m	Picked up 20" x 30" spear and cutting assembly checking connection torques. Ran in the hole with same and stabbed into 18 3/4" wellhead with assistance from ROV.
0500	0515	0.25	PA	P	MC	660.0m	Commenced cutting 20" casing at 77.39 m.
0515	0600	0.75	PA	TP (VEQ)	MC	660.0m	20" casing cut within 10 minutes. Observed 18 3/4" housing spin approximately 1/4 turn to the right and halt, soon after 18 3/4" housing pulled free of 30" housing and rotated with cutter. Pulled out of the hole with 18 3/4" housing and 4.94 m long, 20" cut off stub.
0600	0815	2.25	PA	TP (VEQ)	MC	660.0m	Re-dressed spear assembly, changing grapple and sleeve.
0815	0915	1.00	PA	TP (VEQ)	TI	660.0m	Ran in the hole with spear and cutting assembly and stabbed into 30" housing.
0915	1015	1.00	PA	P	MC	660.0m	Cut 30" casing at 76.84 m.
1015	1130	1.25	PA	P	TO	660.0m	Pulled 30" housing free with 80k overpull and commenced pulling out of the hole to recover cut housing, PGB and TGB.
1130	1400	2.50	PA	P	MC	660.0m	Washed cuttings off PGB, TGB and casing stub in preparation to land same on moonpool skid trolley. Landed out PGB, TGB and casing stub on skid trolley and released grapple from same. Commenced deballasting rig from survival draft.
1400	1445	0.75	PA	P	HBHA	660.0m	Soft broke casing cutting assembly and laid out same.
1445	1600	1.25	PA	P	RD	660.0m	Removed guide posts from PGB and skidded PGB, TGB and casing stub to starboard side of moonpool on skid trolley.
1600	1800	2.00	PA	P	HBHA	660.0m	Laid down 8" drill collars and remaining 5" drill pipe from derrick.
1800	2045	2.75	PA	P	RM	660.0m	Commenced anchor handling operations: Anchor #6, PCC to Far Grip @ 18:00, off bottom @ 18:25, racked @ 19:35, PCC back to rig @ 19:45. Anchor #3, PCC to Far Grip @ 20:12, off bottom @ 20:45
2045	2130	0.75	PA	TP (WOE)	RR	660.0m	Anchor winch #3 breaker tripped at SCR. Operation shut down while repair same.
2130	2400	2.50	PA	P	RM	660.0m	Resumed anchor handling operations: Anchor #3, racked @ 22:35, PCC back to rig @ 22:42. Attempted to trim rig to raise forward pontoons from water for backup tow bridle repair. Unable to raise pontoons high enough out of the water. Decision made for single boat tow to Martha-1 location using Far Grip with Wrangler on single secondary tow line as backup. Resumed anchor handling operations: Anchor #2, PCC to Far Grip @ 23:05, off bottom @ 23:45. Anchor #7, PCC to Wrangler @ 23:25, off bottom @ 23:55.

From	To	Hrs	Phse	Cl (RC)	Op	Depth	Activity Description
							Deballasted to 10.5 m draft @ 00:00. Deballasting ongoing.

Operations For Period 0000 Hrs to 0600 Hrs on 17 Oct 2004

From	To	Hrs	Phse	Cl (RC)	Op	Depth	Activity Description
0000	0600	6.00	PA	P	RM	660.0m	Anchor handling operations ongoing: Anchor #2, racked @ 00:55 Anchor #7, racked @ 01:05 Prepared Far Grip deck for towing @ 01:05 Port tow bridle, fish plate and messenger line passed to Far Grip @ 02:55 Port crane received tow bridle from Far Grip @ 03:52 Anchor #5, PCC to Wrangler @ 04:30 Tow bridle passed to Far Grip @ 05:00 Tow bridle secured to Far Grip @ 05:10 Anchor #5 off bottom @ 05:25

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite	MT	0	0	0	57.3
Gel/Bentonite	MT	0	0	0	18.4
Drill Water	m³	0	23.8	0	162.5
Rig Fuel	m³	200	7.9	0	342.2
Cement	MT	0	0	0	83.3
Potable Water	m³	20	20	0	193.2

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)
1	A1700	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	
2	12P-160	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	
3	12P-160	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	

Personnel On Board

Job Title	Personnel	Company	Pax
OIM	Sean De Freitas	DOGC	47
Camp Boss	Chris Seidel	Total	8
ROV Pilot	Jason Goodwin	Fugro	4
Data Engineer	Gary Bloom	Halliburton	2
Mud Engineer	Jasdeep Singh	MI Swaco	1
Engineer	Glen Harding	Cameron	1
Cementer	Edgar Llagas	Dowell Schlumberger	2
Drilling Supervisor	Chris Wilson	BSOC	3
QC Surveyor	John Harkenhoff	ECL	1
Surveyor	Razak Risah	Fugro	2
Master - MO47	Kim Lyons	Offshore	8
Crane Tech	Mark Watson	Liebherr Cranes	1
Tech	Marvin Singh	Varco	1
Comms Tech	Mike Halasz	Marcom	1
		Total	82

Marine

Weather on 16 Oct 2004									
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period		
9.00mi	5.0kn	230deg	1022mbar	10.0C°	0.5m	230deg	0ft/min		
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments			
0.3deg	0.3deg	0m	1.0m	200deg	0ft/min	Comments			
Rig Dir.	Ris. Tension	VDL	Comments						
270.0deg	0klb	4357.0klb							
Boats	Arrived (date/time)		Departed (date/time)		Status	Bulks			
Far Grip					Anchor handling.	Item	Unit	Quantity	
						Barite	MT	0	
						Gel/Bentonite	MT	84	
						Cement	MT	36	
Pacific Wrangler					Anchor handling.	Item	Unit	Quantity	
						Barite	MT	0	
						Gel/Bentonite	MT	11	
						Cement	MT	0	
Helicopter Movement									
Flight #	Company		Arr/Dep. Time		Pax In/Out		Comment		
1	Bristow		11:00 / 11:07		5 / 3		Call sign: BHI		
2	Bristow		13:05 / 13:08		0 / 1		Call sign: BHI		

17 Oct 2004 (GMT +10)

From: Chris Wilson
 To: Colin Allport

DRILLING MORNING REPORT # 14

Moby-1 (Vic / P-47)

Well Data							
Country	Australia	M. Depth	660.0m	Cur. Hole Size	8.500in	AFE Cost	\$ 4,164,756
Field		TVD	660.0m	Casing OD	13.365in	AFE No.	
Drill Co.	DOGC	Progress	0m	Shoe TVD	321.8m	Daily COST	\$ 123,976
Rig	Ocean Patriot	Days from spud	9.84	FIT	14.16ppg	Cum Cost	\$ 3,285,106
Wtr Dpth(LAT)	53.0m	Days on well	13.54	LOT	0ppg	Planned TD	625.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600					
RT-ML	74.5m	Planned Op					

Summary of Period 0000 to 2400 Hrs

Completed anchor handling operations, Rig handed over from BSOC to Santos @ 13:00 hrs.

Operations For Period 0000 Hrs to 2400 Hrs on 17 Oct 2004

From	To	Hrs	Phse	Clis (RC)	Op	Depth	Activity Description
0000	1300	13.00	PA	P	RM	660.0m	<p>Continued to pull anchors:</p> <p>Anchor #2, racked at 00:45, PCC back to rig at 00:55</p> <p>Anchor #7, racked at 00:56, PCC back to rig at 01:05</p> <p>Primary tow bridle to Far Grip to undo fishplate at 02:55</p> <p>Bridle leg passed back to rig at 03:52</p> <p>Anchor #5, PCC passed to Wrangler at 04:30</p> <p>Tow bridle connected to Far Grip at 05:15</p> <p>Anchor #5, off bottom at 05:27, racked at 06:35, PCC back to rig at 06:40</p> <p>Anchor #1, PCC passed to Wrangler at 07:10, off bottom at 07:35, racked at 09:27, PCC back to rig at 09:31</p> <p>Anchor #8, PCC passed to Wrangler at 09:50, off bottom at 10:12, racked at 11:25, PCC back to rig at 11:30.</p> <p>Anchor #4, PCC passed to Wrangler at 11:50, off bottom at 12:25</p> <p>Last anchor (#4) racked at 13:00 on 17 October 2004. Rig handed over from BSOC to Santos.</p> <p>Anchor #4, PCC back to rig at 13:02</p> <p>Rig under tow to Martha-1 location.</p> <p>Statement of facts: Ocean Patriot - Fuel Oil 2055 bbl, Drill Water 1021 bbl, Potable Water 1216 bbl, Lube Oil 8920 litre, Barite 57.4 MT, Gel 18.3 MT Cement 83.4 MT</p> <p>Far Grip - Fuel Oil 3773 bbl, Drill Water 0 bbl, Potable Water 3233 bbl, Lube Oil 12400 litre, Barite 0 MT, Gel 84 MT Cement 36 MT</p> <p>Pacific Wrangler - Fuel Oil 2457 bbl, Drill Water 742 bbl, Potable Water 843 bbl, Lube Oil 25489 litre, Barite 0 MT, Gel 11 MT Cement 0 MT</p>

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite	MT	0	0	0.07	57.4
Gel/Bentonite	MT	0	0	-0.06	18.3
Drill Water	m³	0	0	-0.18	162.3
Rig Fuel	m³	0	15.52	0	326.7
Cement	MT	0	0	0.05	83.4
Potable Water	m³	25	25	0.12	193.3

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)
1	A1700	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	
2	12P-160	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	

Pumps

Pump Data - Last 24 Hrs							Slow Pump Data											
3	12P-160	6.50	0	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Personnel On Board

Job Title	Personnel	Company	Pax
OIM	Sean De Freitas	DOGC	47
Camp Boss	Chris Seidel	Total	8
ROV Pilot	Jason Goodwin	Fugro	4
Data Engineer	Gary Bloom	Halliburton	2
Mud Engineer	Jasdeep Singh	MI Swaco	1
Engineer	Matt Jones	Cameron	1
Cementer	Edgar Llagas	Dowell Schlumberger	2
Drilling Supervisor	Chris Wilson	BSOC	3
Casing Cutter	Tom Armstrong	Smith	1
QC Surveyor	John Harkenhoff	ECL	1
Surveyor	Razak Risah	Fugro	2
Master - MO47	Kim Lyons	Offshore	8
Crane Tech	Steve Winslow	Liebher Cranes	1
		Total	81

Marine

Weather on 17 Oct 2004

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
9.00mi	14.0kn	120deg	1021mbar	10.0C°	1.0m	120deg	0ft/min
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments	
0.3deg	0.3deg	0m	1.5m	070deg	0ft/min	Comments	
Rig Dir.	Ris. Tension	VDL					
251.0deg	0klb	4368.0klb					

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks						
Far Grip			On primary tow.	Item		Unit				
Pacific Wrangler			On secondary tow.	Item		Quantity				

ENCLOSURES

ENCLOSURE 1
(Mudlog)

RIG MONITORING
FORMATION EVALUATION LOG

Country	: Australia
Field	: Gippsland Basin
Location	: Lat: 38° 1' 44.25" South Long: 148° 30' 27.40" East
Well	: Moby-1
Company	: Bass Strait Oil Company Ltd
Rig	: Ocean Patriot
Field	: Gippsland Basin
Country	: Australia
DOE Number	:
LOCATION	
Latitude : 38° 1' 44.25" South	
Longitude: 148° 30' 27.40" East	
UTM Easting = 632,316.41 m	
UTM Northing = 5,789,884.86 m	
Permanent Datum	: Mean Sea Level
Log Measured From	: Drill Floor
Drilling Measured From	: Drill Floor
Latitude :	38° 1' 44.25" South
Longitude:	148° 30' 27.40" East
Elevation :	0.00 m
MD LOG	21.50 m Above Permanent Datum
Elev.	
DF	21.50 m
GL	0.00 m
WD	53.00 m
Other Services	
Depth Logged	: 74.50 m
Date Logged	: 07-Oct-04
Total Depth MD	: 660.00 m
Spud Date	: 07-Oct-04
Borehole Record (MD)	
Size	
From	
To	
Plot Type	: Field
Plot Date	: 09-Nov-04
Run No.	
Size	
Borehole Record (MD)	
From	
To	
Weight	
Casing Record (MD)	
From	
To	
Size	
762.000 mm	
739.725 mm	
456.00 kgpm	
101.20 kgpm	
74.50 m	
74.50 m	



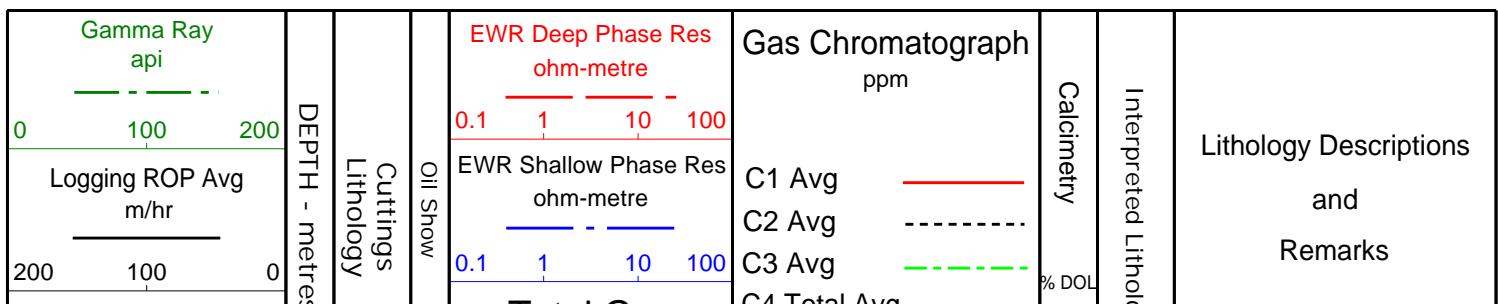
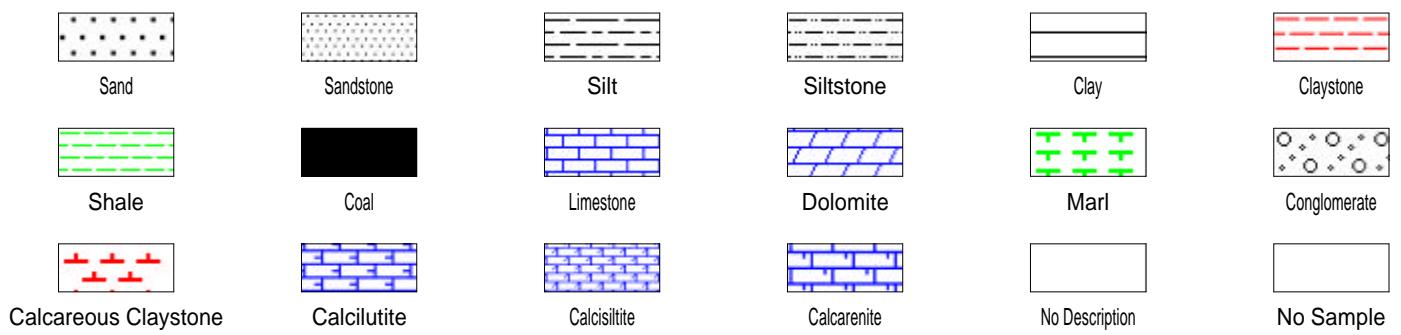
sperry-sun
DRILLING SERVICES
 A Halliburton Company

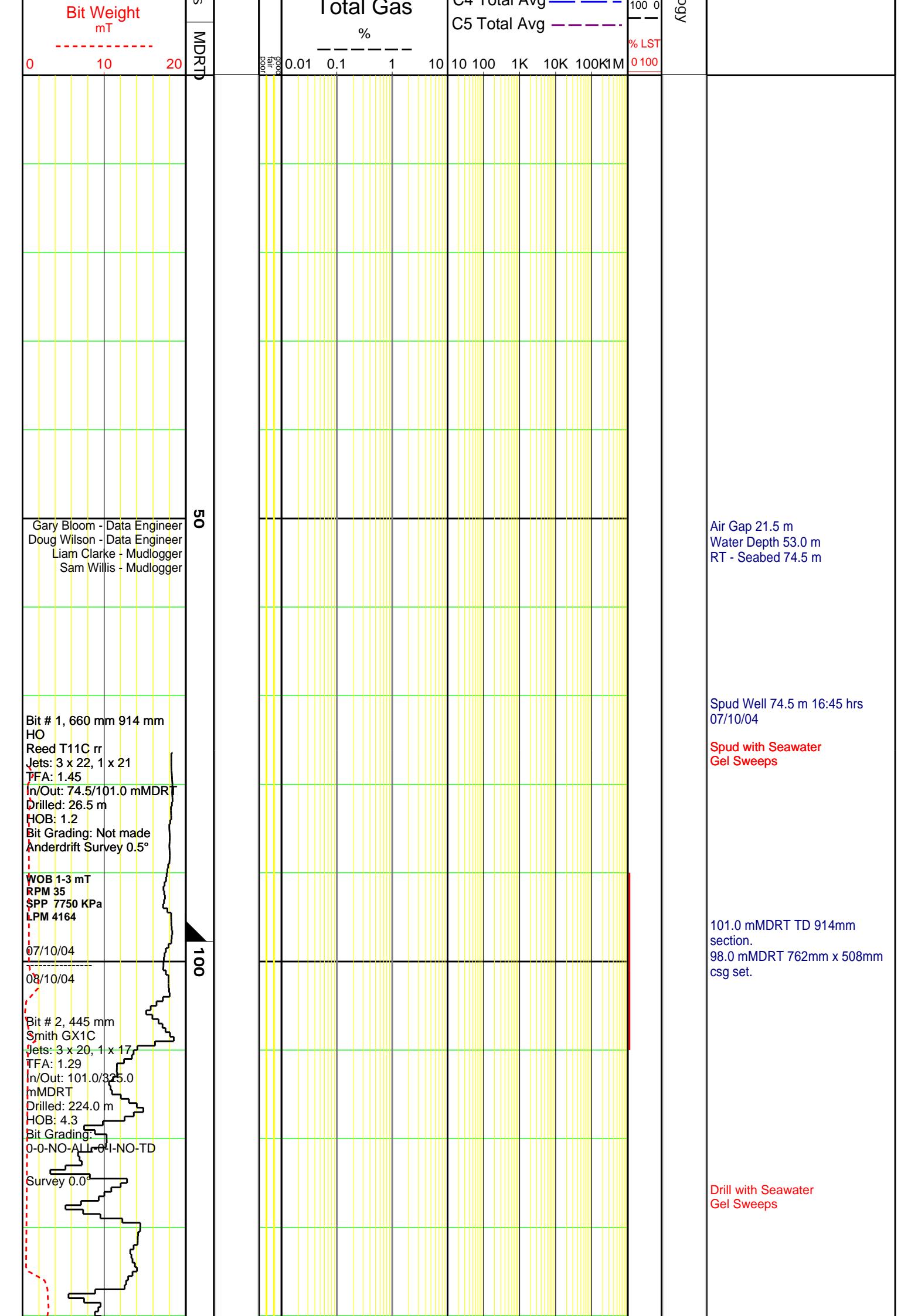
FINAL MUDLOG

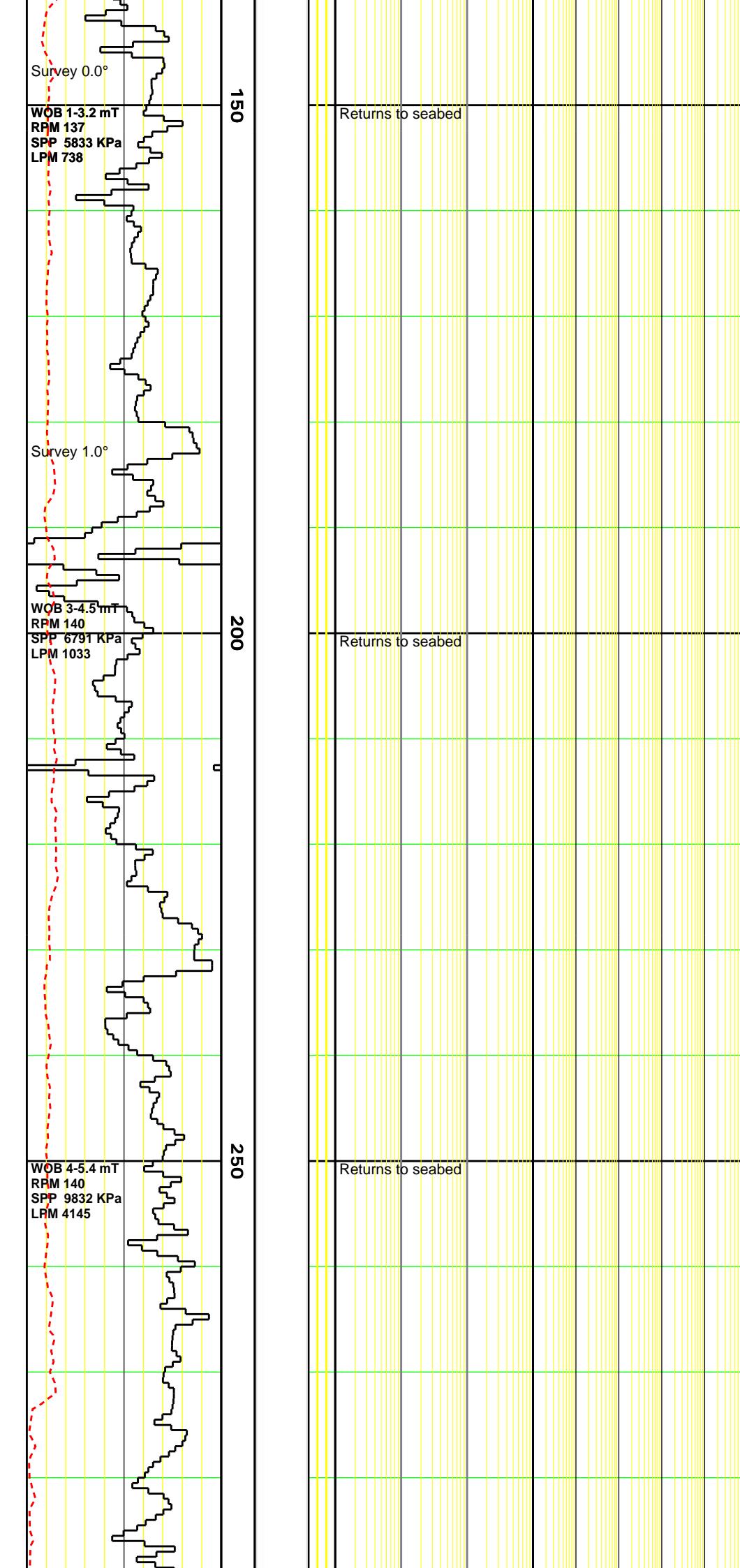
Bass Strait Oil Company Ltd

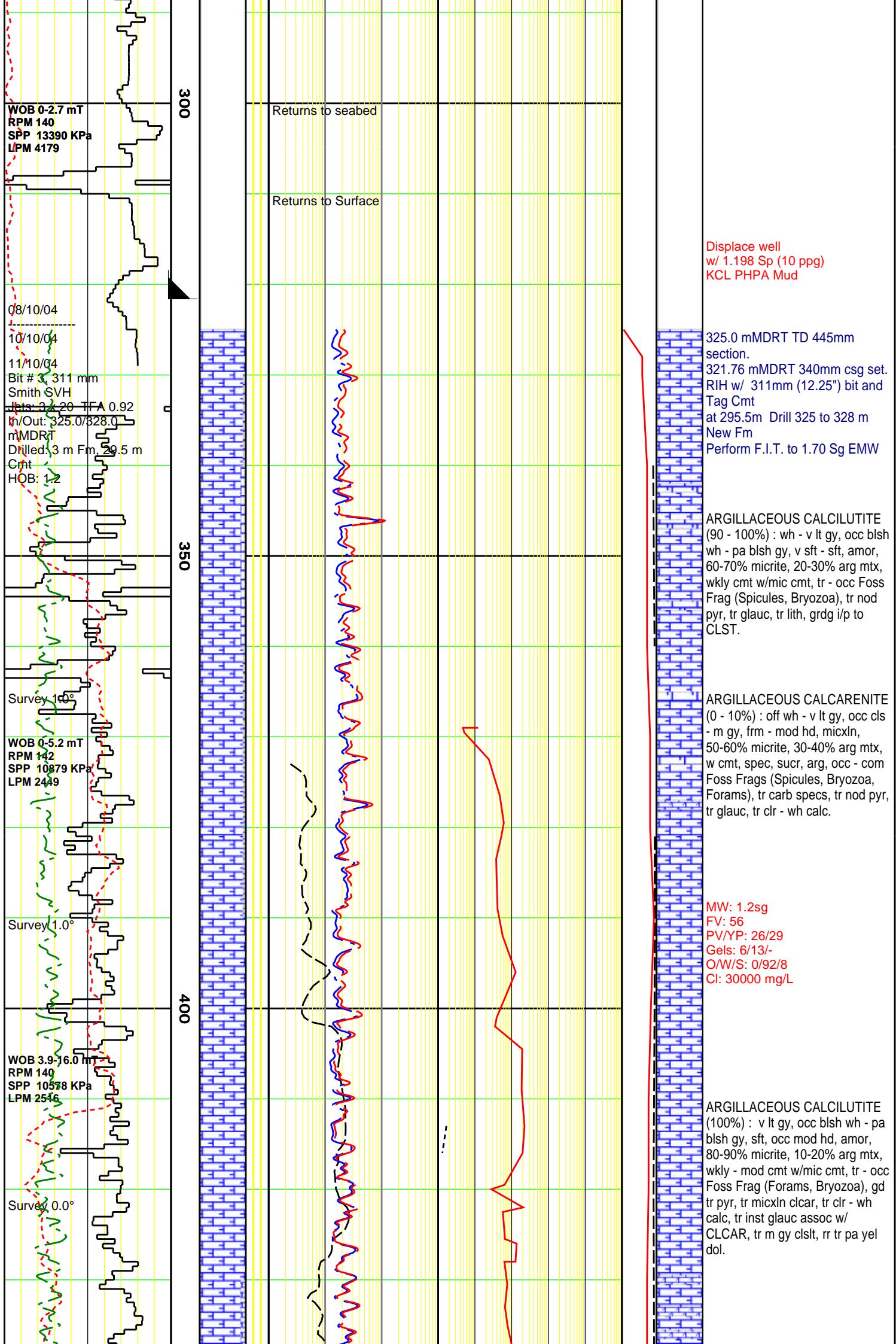
Moby-1

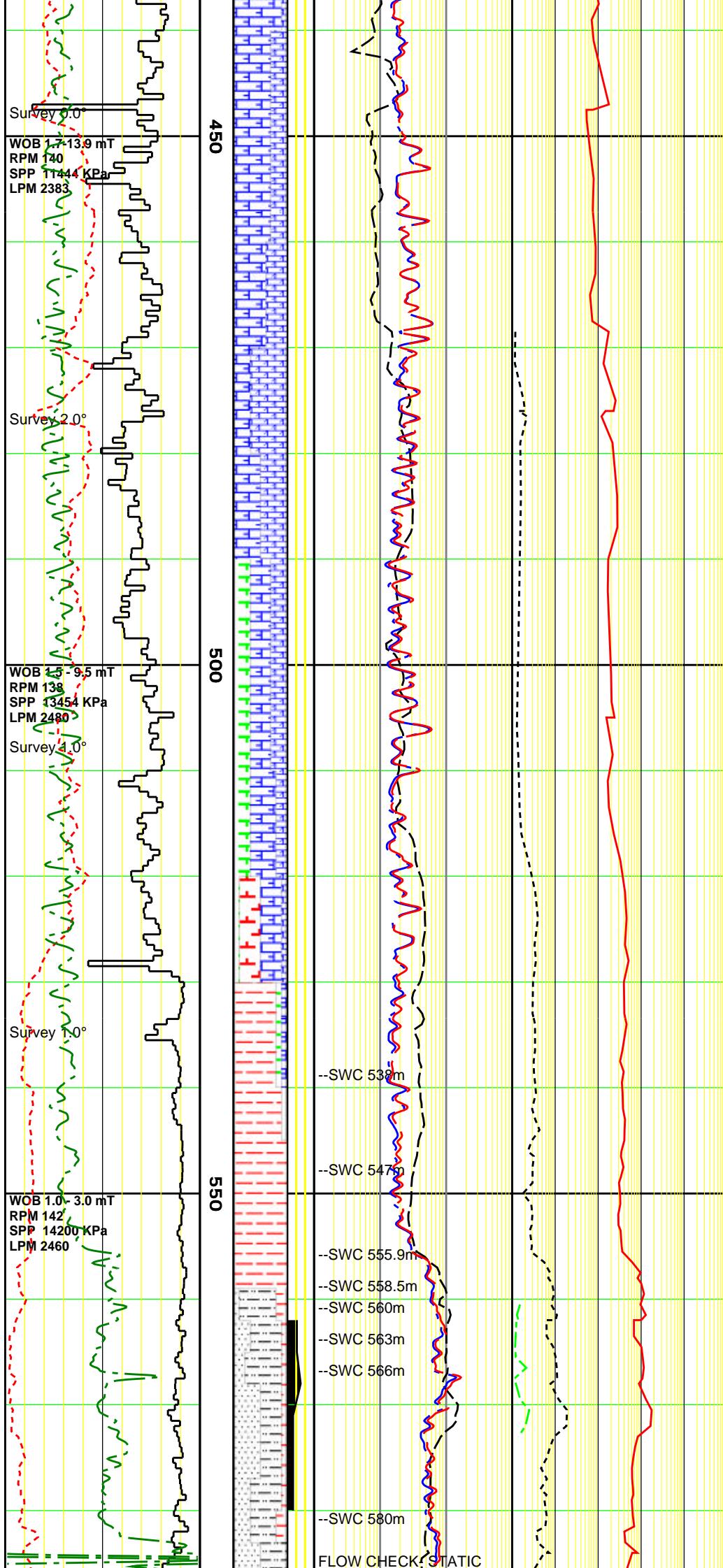
Scale: 1:500











ARGILLACEOUS CALCILUTITE (70 - 90%): It gy - It olv gy, sft, amor, 60-70% micrite, 30-40% arg mtx, wkly - mod cmt w/mic cmt, stky, occ sucr, occ carb spec, tr - rr Foss Frag (Forams, Bryozoa), tr nod pyr, grdg to m gy CLSLT.

ARGILLACEOUS CALCISILTITE (10 - 30%): It gy - It olv gy, sft - frm, occ mod hd, amor - cmby, occ fri - sply, 20-30% arg mtx, wkly - mod cmt, sucr, tr carb spec, tr nod pyr.

ARGILLACEOUS CALCISILTITE (10 - 30%): m lt gy - m dk gy, occ m olv gy, sft - frm, occ mod hd, cmby - sply, 10-20% arg mtx, wkly - mod cmt, sucr, tr carb spec, grdg to arg CLCLT.

ARGILLACEOUS CALCILUTITE (70 - 90%): It gy - It olv gy, sft, amor, 70-80% micrite, 20-30% arg mtx, wkly - mod cmt w/mic cmt, occ sucr, occ carb spec, tr - occ Foss Frag (Forams, Bryozoa), tr nod pyr, tr glauc, grdg to m gy CLSLT.

MARL (10 - 30%): wh - v lt gy, occ lt blsh gy, v sft - sft, disp - amor, 10-15% arg mtx, wkly cmt, tr carb spec, tr nod pyr, tr vf - f diss glauc.

CALCAREOUS CLAYSTONE (40 - 80%): lt - m dk gy, occ brnsh gy, tr lt grnsh gy, sft, amor - sb blky, calc mtx (15-25%), tr lt brnsh yel foss frags, tr vf diss & nod glauc, tr nod pyr.

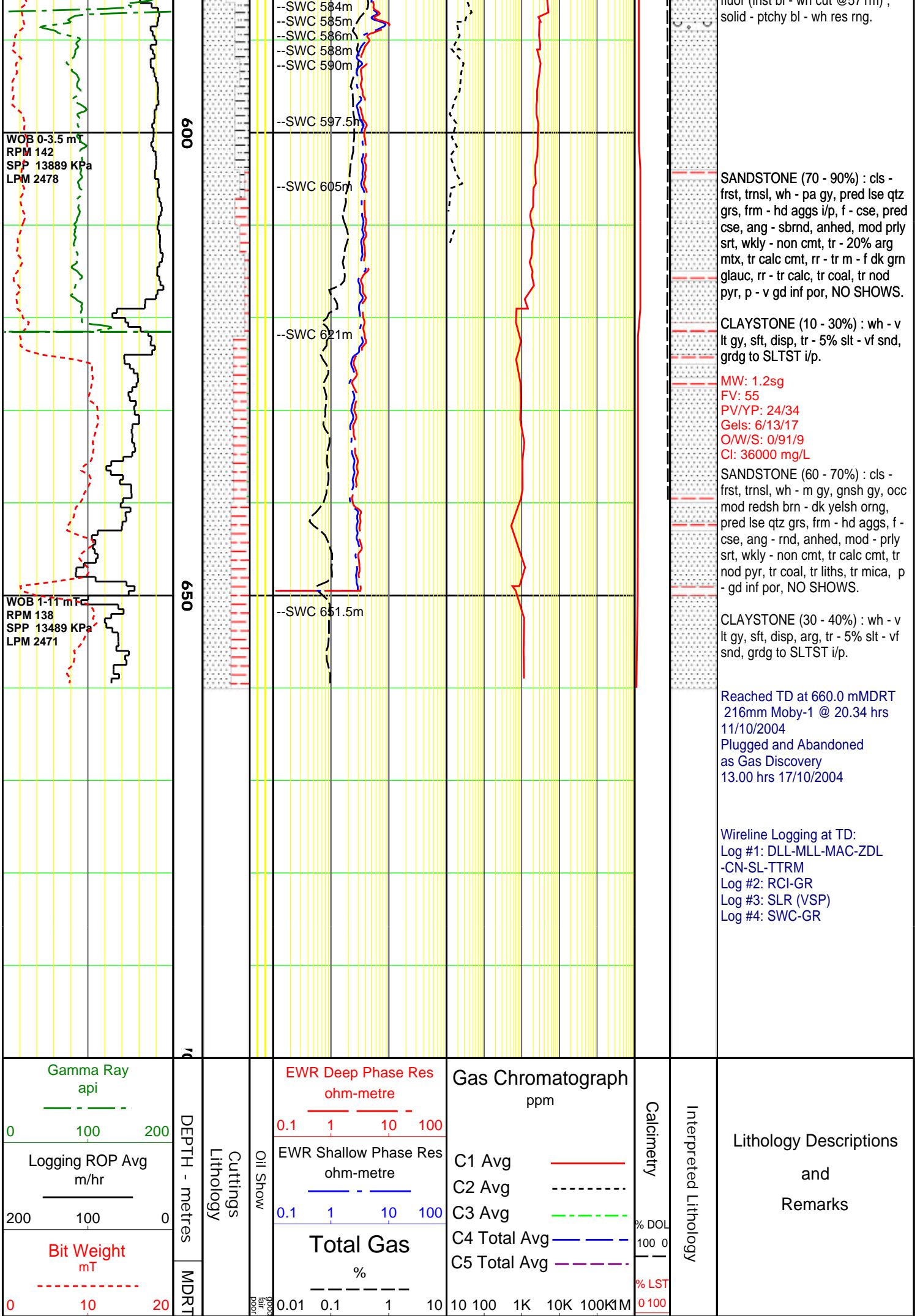
ARGILLACEOUS CALCILUTITE (10 - 40%): It gy - It olv gy, sft, amor, 60-70% micrite, 30-40% arg mtx, wkly - mod cmt w/mic cmt, stky, occ sucr, occ carb spec, tr - rr Foss Frag (Forams, Bryozoa), tr nod pyr, grdg to MRL.

MARL (0 - 10%): wh - v lt gy, occ lt blsh gy, v sft - sft, disp - amor, 10-15% arg mtx, wkly cmt, tr carb spec, tr Foss Frags & Forams, tr nod pyr, tr vf - f diss glauc, grdg i/p to arg CLCLT.

CLAYSTONE (0 - 20%): lt - m gysh brn, lt brnsh yel, tr lt grnsh gy, sft - frm, hd i/p, amor - blky, rr - abdt silt - f snd grdg - SLTY CLST, tr f glauc, tr nod pyr.

SILTSTONE (40 - 90%): m - dk ylsh brn, sft - frm, arg, w/ 5-10% vf qtz snd, tr-5% glauc, grdg to SST.

SANDSTONE (10 - 50%): med yelsh brn, frm, occ sft, fri, vf, sbang - sbrnd, mod wel srt, w/ 5-10% cly mtx, nil - p inf por, SHOWS: 10-20% (60% @ 571m), dull yel nat fluor, slw bl - wh cut fluor (inp bl - wh cut @ 571m)



DIRECTIONAL SURVEY REPORT

Bass Strait Oil Company Ltd

Moby-1

Gippsland Basin

Victoria

Australia

AU-IN-0003293334

Surveys from Casing Shoe (340 mm) obtained by EMS

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
0.000	0.00	0.00	0.000	0.000 N	0.000 E	0.000	TIE-IN
74.500	0.00	0.00	74.500	0.000 N	0.000 E	0.000	0.00
321.760	0.00	0.00	321.760	0.000 N	0.000 E	0.000	0.00
327.930	0.39	145.85	327.930	0.017 S	0.012 E	-0.017	1.89
356.580	0.37	159.98	356.579	0.185 S	0.098 E	-0.185	0.10
385.260	0.52	174.11	385.258	0.403 S	0.144 E	-0.403	0.19
413.910	0.50	188.24	413.907	0.658 S	0.139 E	-0.658	0.13
442.660	0.36	202.37	442.657	0.866 S	0.087 E	-0.866	0.19
471.390	0.39	216.49	471.386	1.028 S	0.005 W	-1.028	0.10
500.190	0.46	30.62	500.186	1.008 S	0.005 W	-1.008	0.88
528.930	0.54	244.75	528.925	0.968 S	0.070 W	-0.968	1.00
557.620	0.69	258.88	557.614	1.059 S	0.363 W	-1.059	0.22
586.240	0.60	273.01	586.232	1.084 S	0.682 W	-1.084	0.19
614.910	0.68	287.14	614.900	1.026 S	0.995 W	-1.026	0.18
643.580	0.79	301.27	643.568	0.874 S	1.327 W	-0.874	0.22
654.700	1.01	315.40	654.686	0.764 S	1.461 W	-0.764	0.84

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 14.13 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED

**HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 654.700 METRES
IS 1.649 METRES ALONG 242.40 DEGREES (GRID)**

ENCLOSURE 2
(Drilling Data Log)



1 : 1000

RIG MONITORING

DRILLING LOG

Country	:	Australia
Field	:	Gippsland Basin
Location	:	Lat: 38° 1' 44.25" South Long: 148° 30' 27.40" East
Well	:	Moby-1
Company	:	Bass Strait Oil Company Ltd
Rig	:	Ocean Patriot
Well	:	Moby-1
Field	:	Gippsland Basin
Country	:	Australia
DOE Number	:	
LOCATION		
Latitude	:	38° 1' 44.25" South
Longitude	:	148° 30' 27.40" East
UTM Easting	=	632,316.41 m
UTM Northing	=	5,789,884.86 m
Permanent Datum	:	Mean Sea Level
Log Measured From	:	Drill Floor
Drilling Measured From	:	Drill Floor
Latitude	:	38° 1' 44.25" South
Longitude	:	148° 30' 27.40" East
Elevation	:	0.00 m
MD LOG		
21.50 m	Above Permanent Datum	
Other Services		
Job No.	:	AU-IN-0003293334
Unit No.	:	197
Depth Logged	:	74.50 m
Date Logged	:	07-Oct-04
Total Depth MD	:	660.00 m
Spud Date	:	07-Oct-04
Run No.	Size	Borehole Record (MD)
1	914.400 mm	From 74.50 m To 660.00 m
2	444.500 mm	From 101.00 m To 659.99 m
3	311.150 mm	From 325.00 m To 660.00 m
4	215.900 mm	From 328.00 m To 660.00 m
	Size	Casing Record (MD)
	Weight	From 74.50 m To 98.00 m
	kg/m	From 74.50 m To 321.76 m
	gapi	



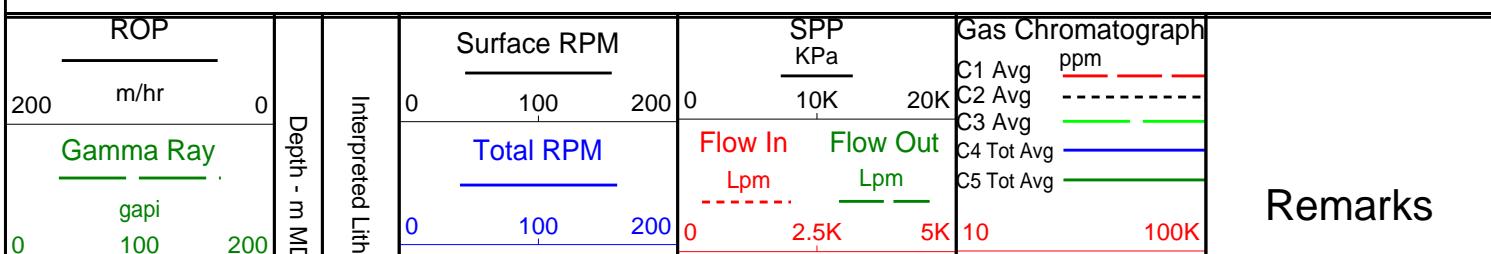
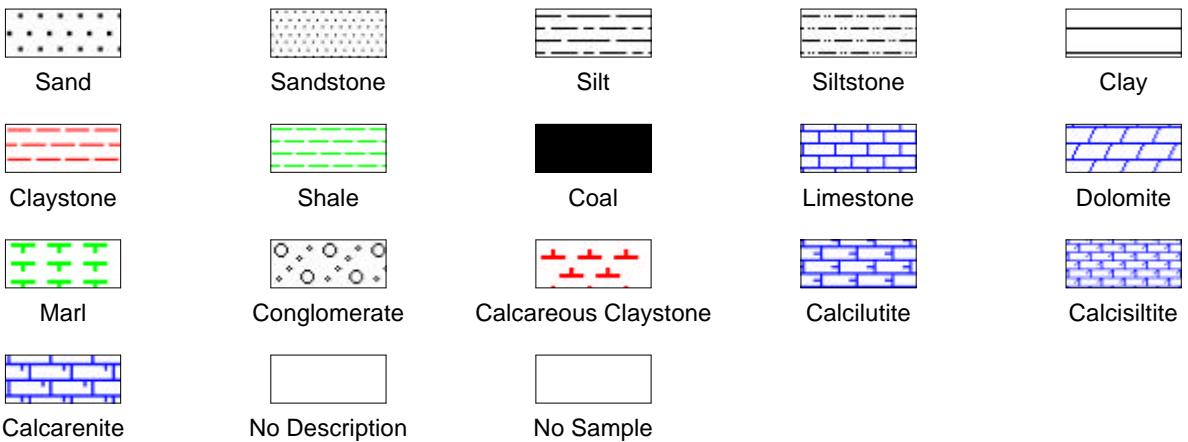
Bass Strait Oil Company Ltd. DAILY DRILLING LOG

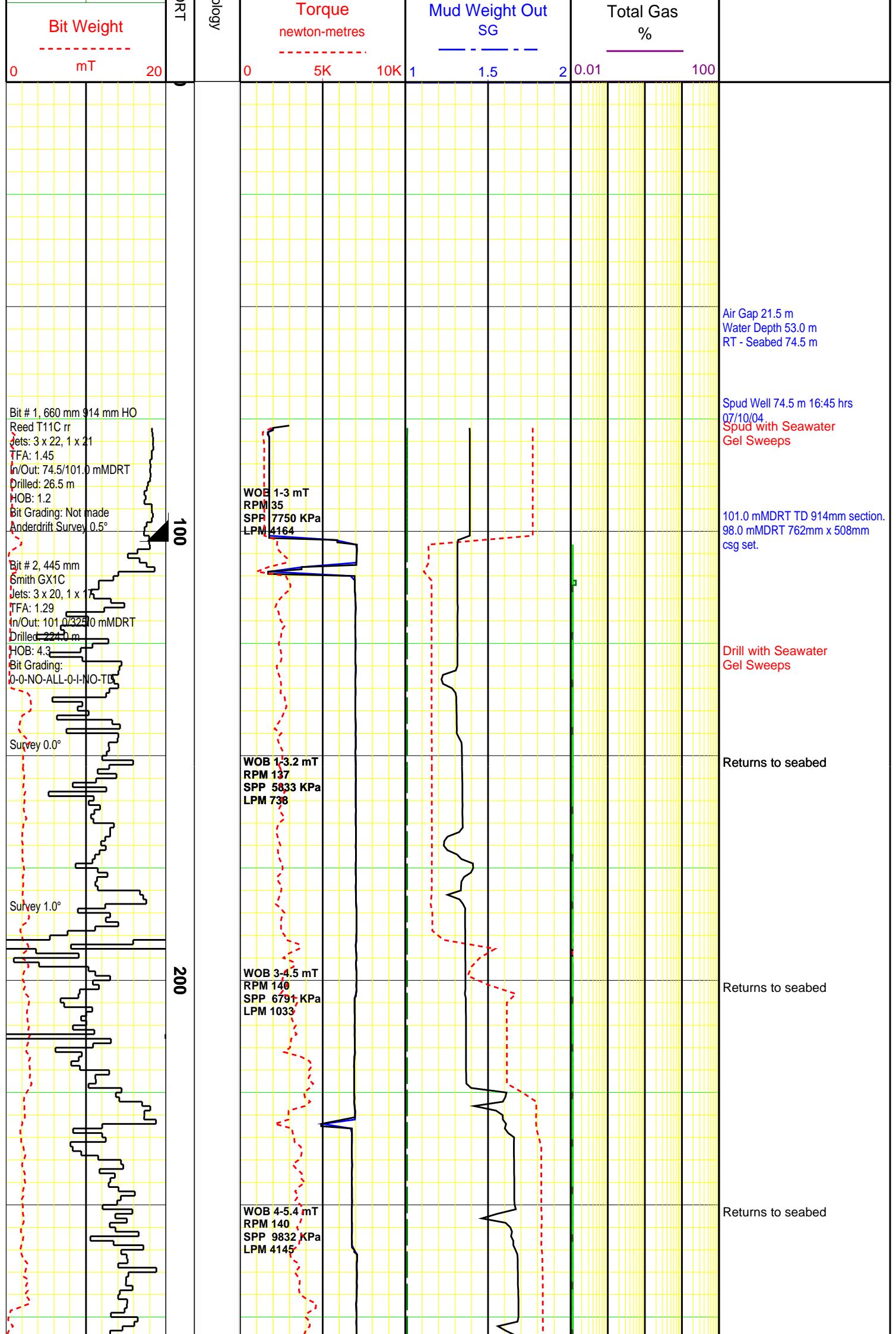
Moby-1

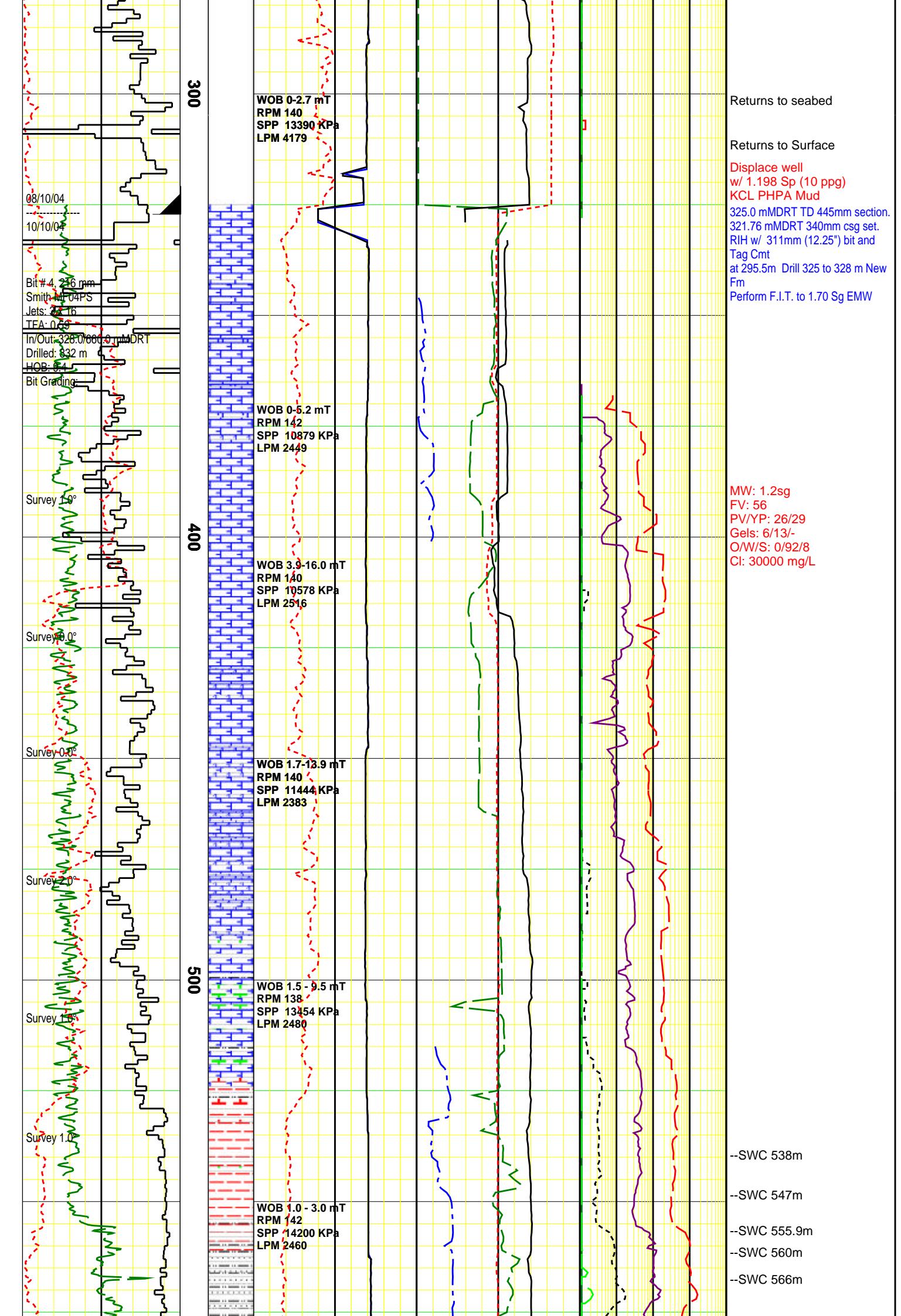
sperry-sun
DRILLING SERVICES
A Halliburton Company

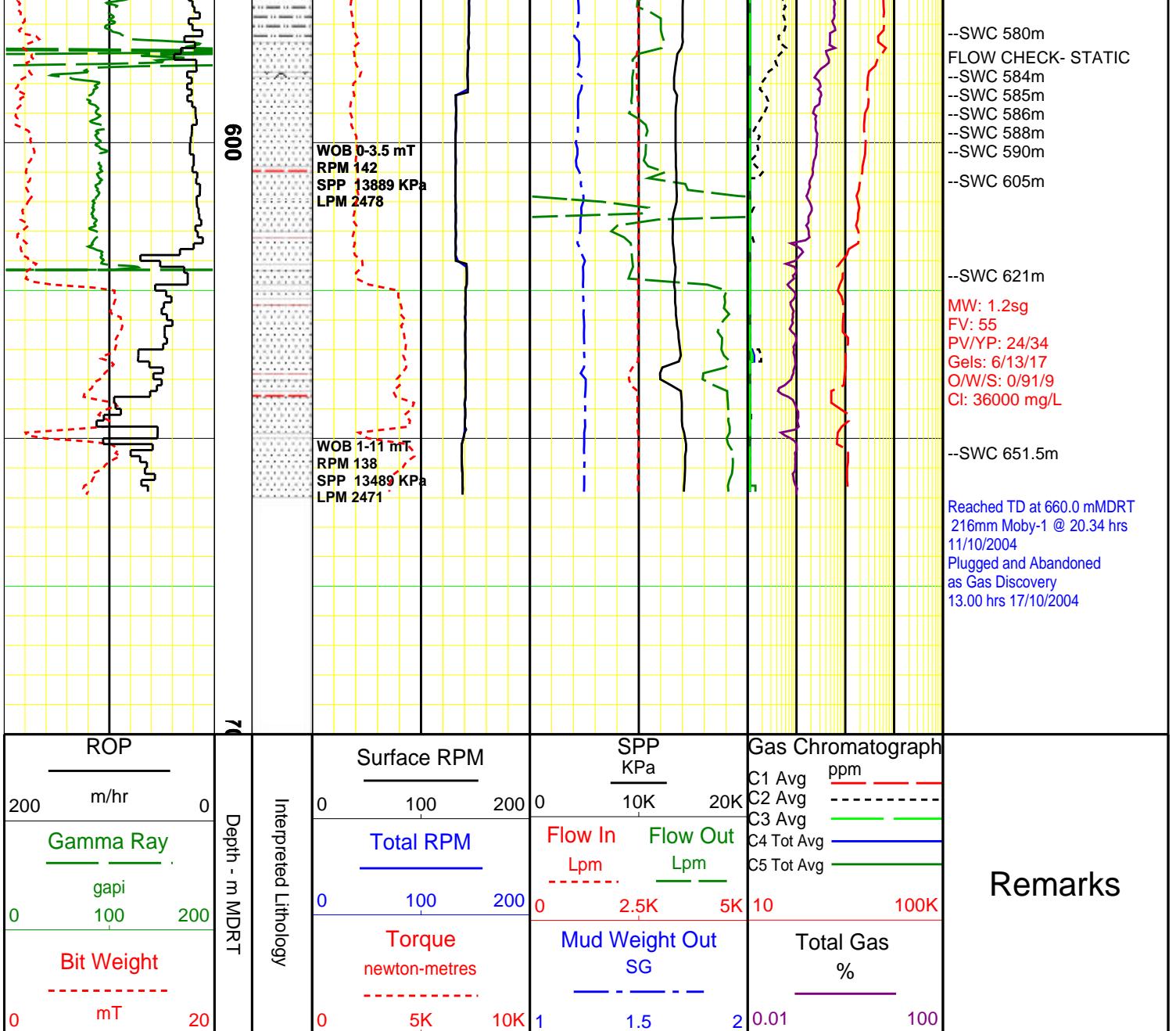
Scale: 1:1000

Depth: 74.5 - 660.0 m MDRT









DIRECTIONAL SURVEY REPORT

Bass Strait Oil Company Ltd

Moby-1

Gippsland Basin

Victoria

Australia

AU-IN-0003293334

Surveys from Casing Shoe (340 mm) obtained by EMS

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
0.000	0.00	0.00	0.000	0.000 N	0.000 E	0.000	TIE-IN
74.500	0.00	0.00	74.500	0.000 N	0.000 E	0.000	0.00
321.760	0.00	0.00	321.760	0.000 N	0.000 E	0.000	0.00
327.930	0.39	145.85	327.930	0.017 S	0.012 E	-0.017	1.89
356.580	0.37	159.98	356.579	0.185 S	0.098 E	-0.185	0.10
385.260	0.52	174.11	385.258	0.403 S	0.144 E	-0.403	0.19
413.910	0.50	188.24	413.907	0.658 S	0.139 E	-0.658	0.13
442.660	0.36	202.37	442.657	0.866 S	0.087 E	-0.866	0.19
471.390	0.39	216.49	471.386	1.028 S	0.005 W	-1.028	0.10
500.190	0.46	30.62	500.186	1.008 S	0.005 W	-1.008	0.88
528.930	0.54	244.75	528.925	0.968 S	0.070 W	-0.968	1.00
557.620	0.69	258.88	557.614	1.059 S	0.363 W	-1.059	0.22
586.240	0.60	273.01	586.232	1.084 S	0.682 W	-1.084	0.19

580.240	0.00	273.01	580.232	1.084 S	0.002 W	-1.084	0.19
614.910	0.68	287.14	614.900	1.026 S	0.995 W	-1.026	0.18
643.580	0.79	301.27	643.568	0.874 S	1.327 W	-0.874	0.22
654.700	1.01	315.40	654.686	0.764 S	1.461 W	-0.764	0.84

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 14.13 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED

HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 654.700 METRES
IS 1.649 METRES ALONG 242.40 DEGREES (GRID)

Date Printed:09 November 2004

ENCLOSURE 3
(Pressure Log)

Country	:	Australia
Field	:	Gippsland Basin
Location	:	Lat: 38° 1' 44.25" South Long: 148° 30' 27.40" East
Well	:	Moby-1
Company	:	Bass Strait Oil Company Ltd
Rig	:	Ocean Patriot
Well	:	Moby-1
Field	:	Gippsland Basin
Country	:	Australia
DOE Number	:	
LOCATION		
Latitude	:	38° 1' 44.25" South
Longitude	:	148° 30' 27.40" East
UTM Easting	=	632,316.41 m
UTM Northing	=	5,789,884.86 m
Permanent Datum	:	Mean Sea Level
Log Measured From	:	Drill Floor
Drilling Measured From	:	Drill Floor
Latitude	:	38° 1' 44.25" South
Longitude	:	148° 30' 27.40" East
Elevation	:	0.00 m
		21.50 m Above Permanent Datum
MD LOG		
Depth Logged	:	74.50 m
Date Logged	:	07-Oct-04
Total Depth MD	:	660.00 m
Spud Date	:	07-Oct-04
Run No.	Size	Borehole Record (MD)
1	914.400 mm	From 74.50 m To 660.00 m
2	444.500 mm	From 101.00 m To 659.99 m
3	311.150 mm	From 325.00 m To 660.00 m
4	215.900 mm	From 328.00 m To 762.000 mm
	Size	Casing Record (MD)
	Weight	From 74.50 m To 98.00 m
	kg/m³	101.20 kg/m³ 74.50 m 321.76 m
Other Services		
Job No.	:	AU-IN-0003293334

RIG MONITORING

PRESSURE LOG



Bass Strait Oil Company Ltd.

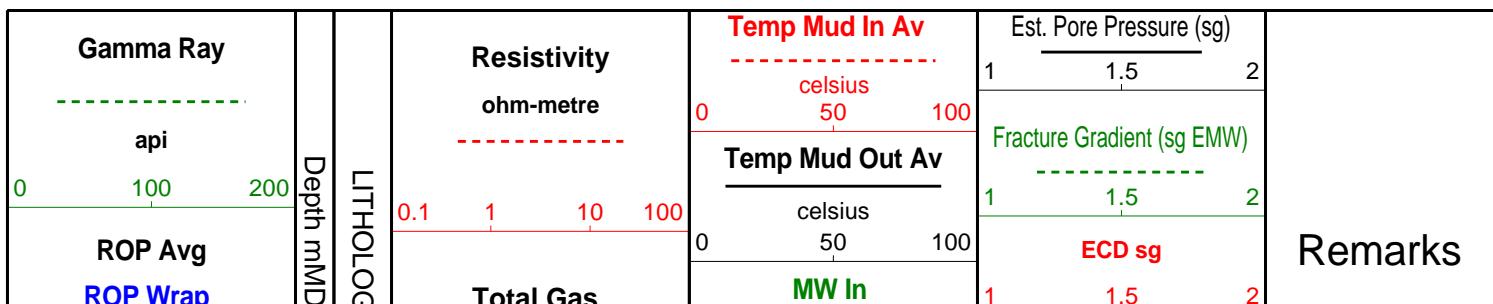
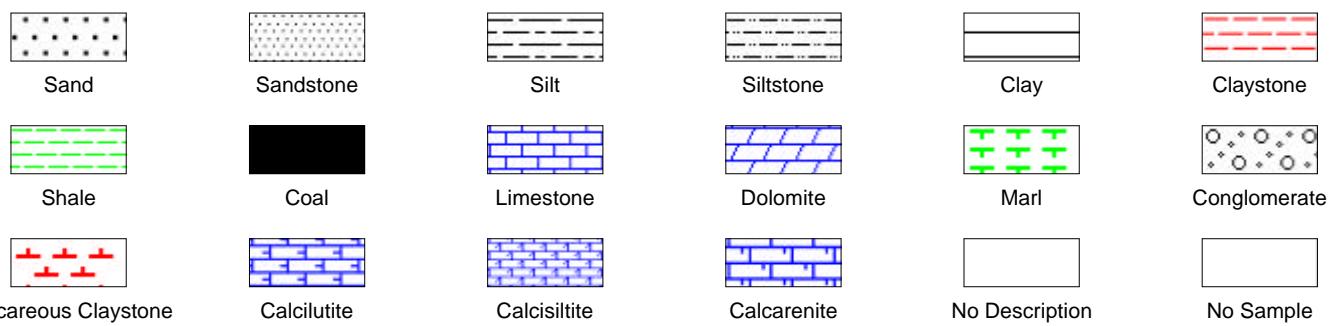
PRESSURE EVALUATION LOG

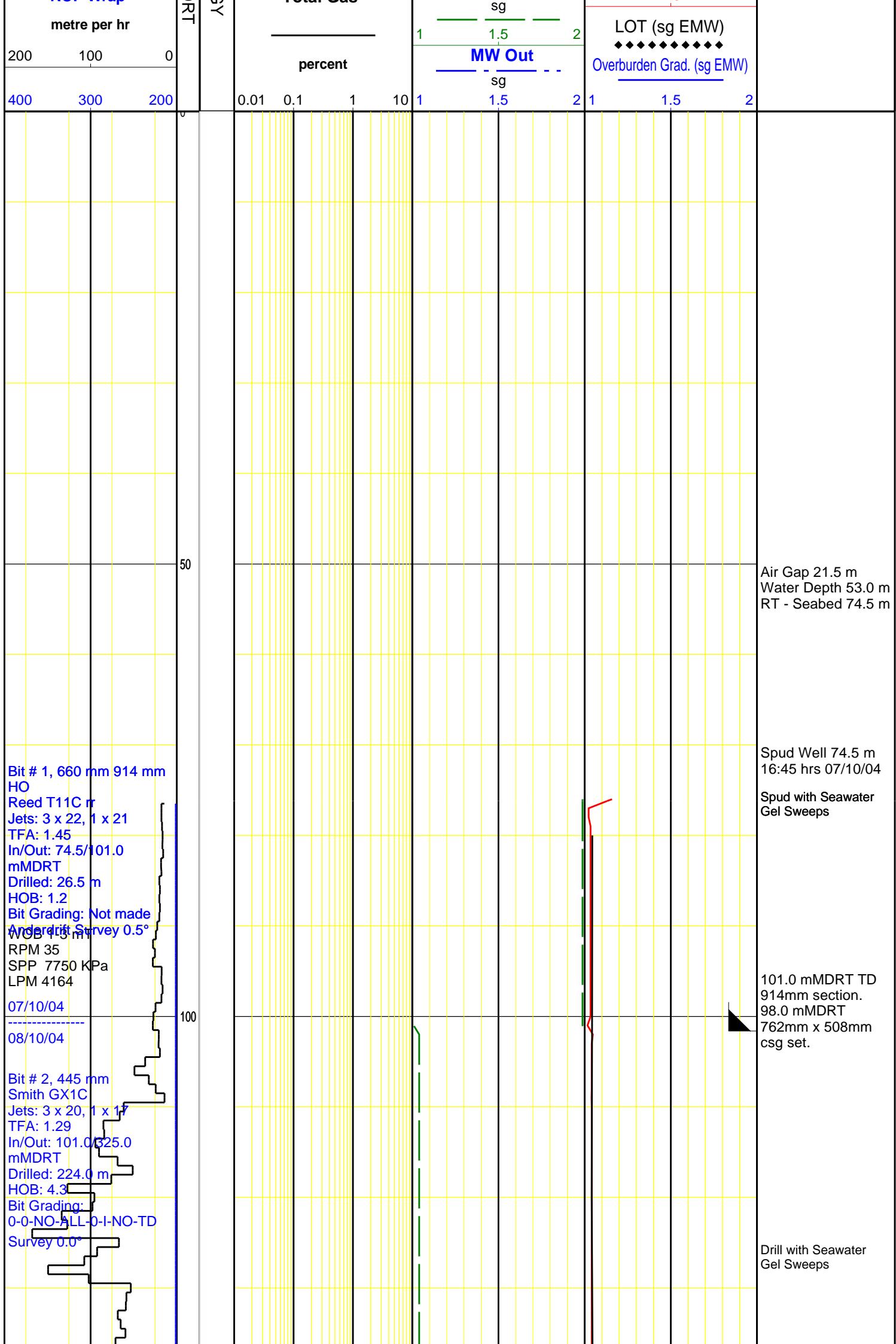
Moby-1

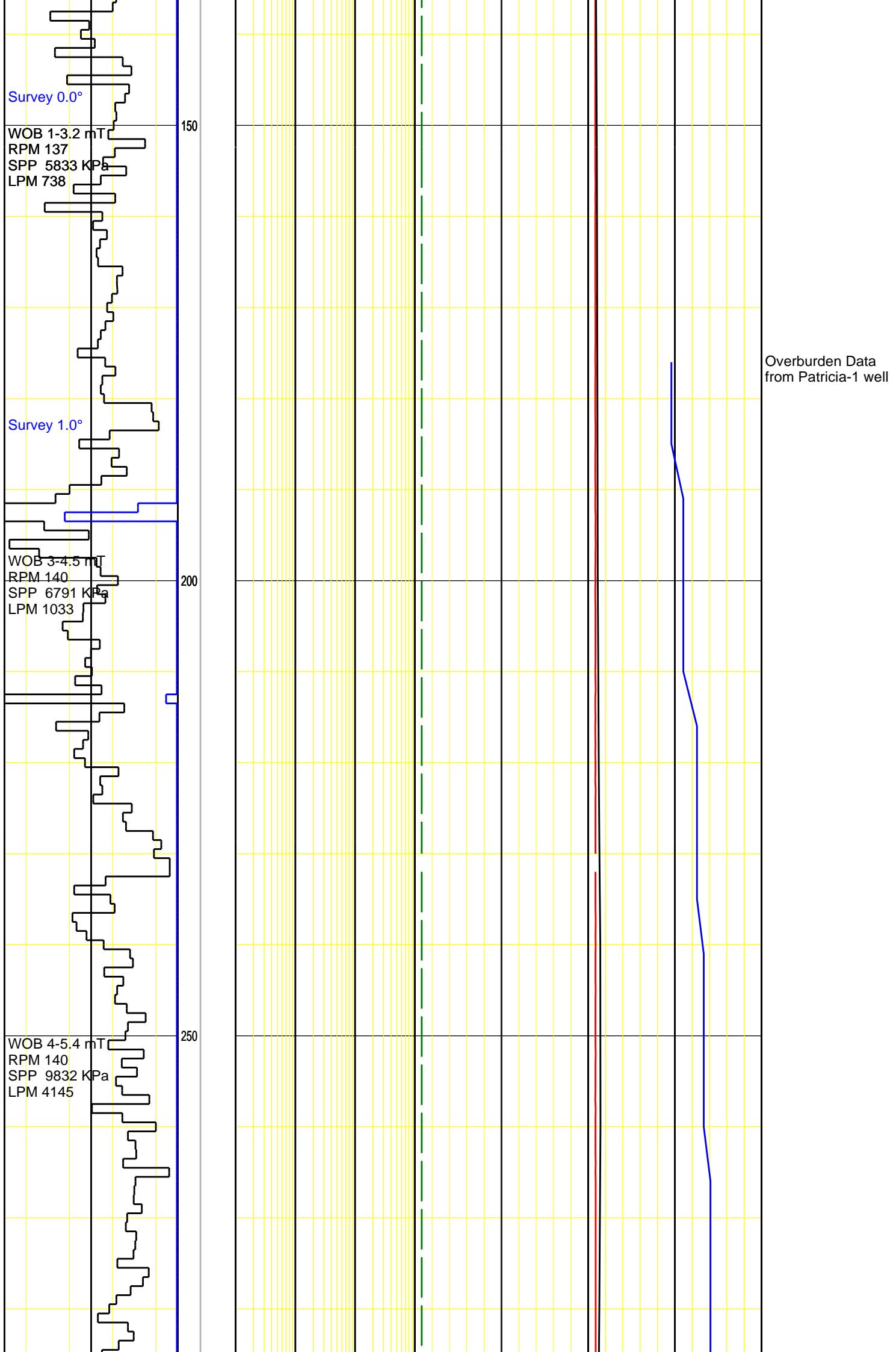
SPERRY-SUN
DRILLING SERVICES
A Halliburton Company

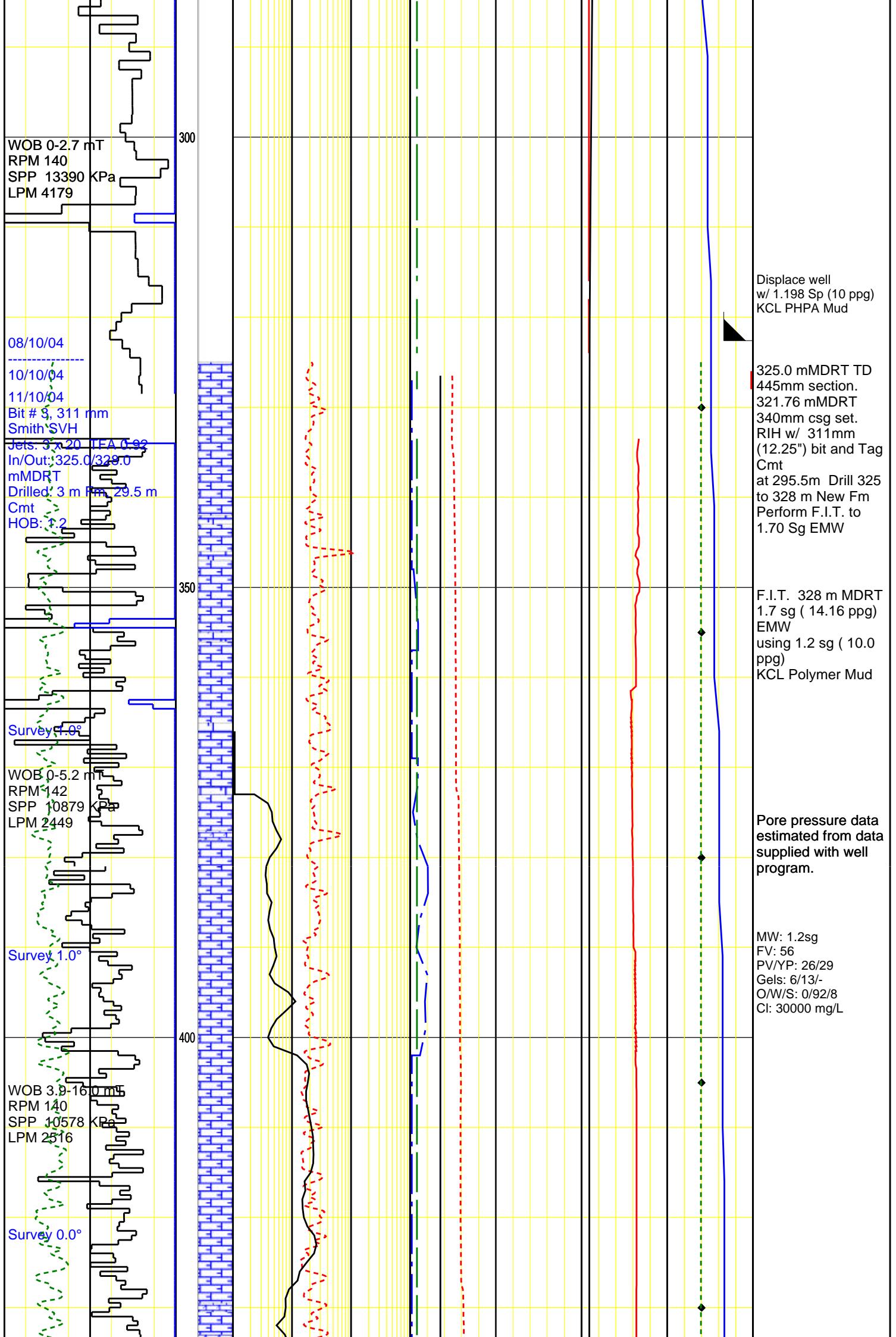
Depth : 74.5 - 660.0 mMDRT

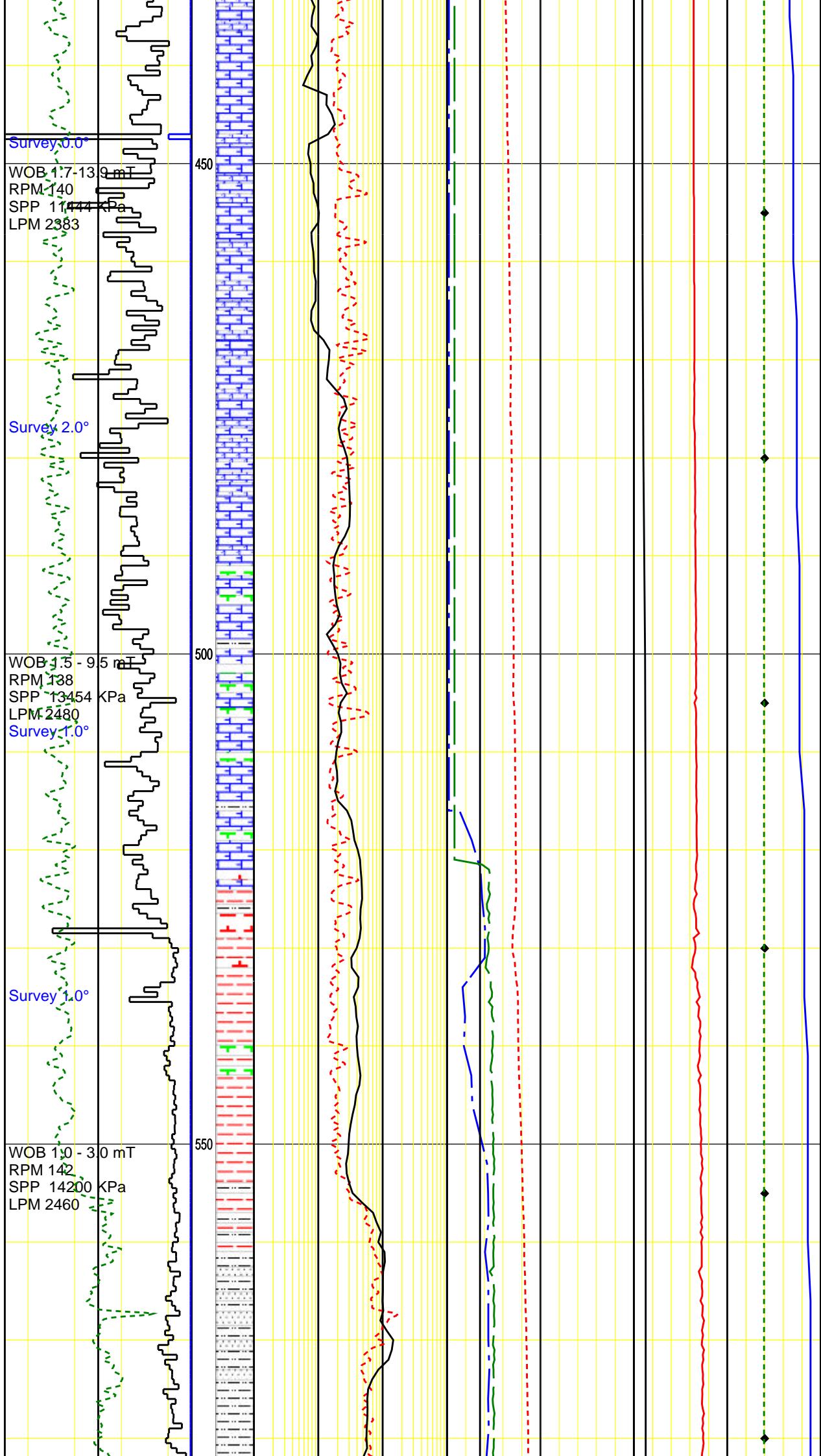
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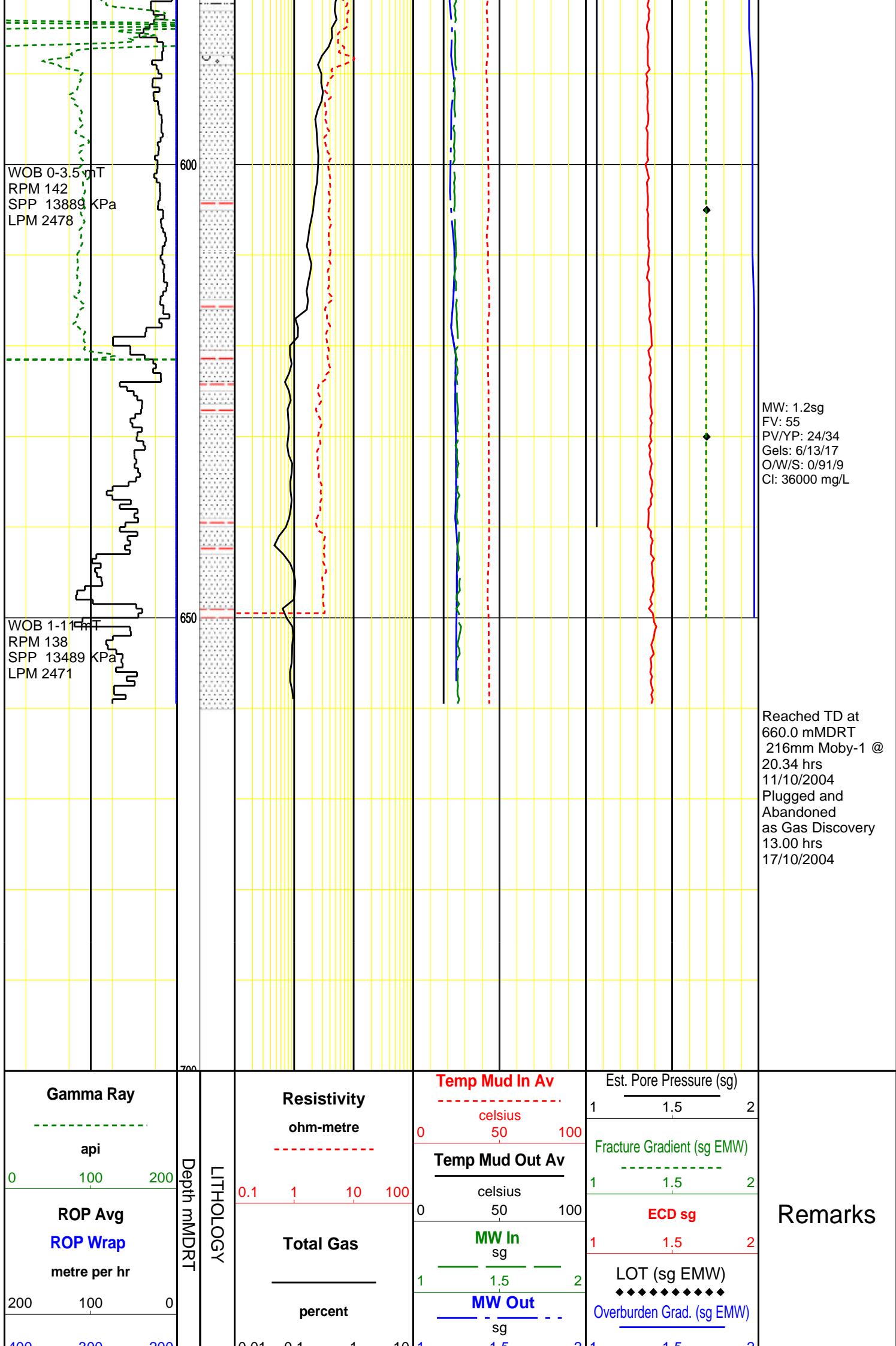














DIRECTIONAL SURVEY REPORT

Bass Strait Oil Company Ltd

Moby-1

Gippsland Basin

Victoria

Australia

AU-IN-0003293334

Surveys from Casing Shoe (340 mm) obtained by EMS

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
0.000	0.00	0.00	0.000	0.000 N	0.000 E	0.000	TIE-IN
74.500	0.00	0.00	74.500	0.000 N	0.000 E	0.000	0.00
321.760	0.00	0.00	321.760	0.000 N	0.000 E	0.000	0.00
327.930	0.39	145.85	327.930	0.017 S	0.012 E	-0.017	1.89
356.580	0.37	159.98	356.579	0.185 S	0.098 E	-0.185	0.10
385.260	0.52	174.11	385.258	0.403 S	0.144 E	-0.403	0.19
413.910	0.50	188.24	413.907	0.658 S	0.139 E	-0.658	0.13
442.660	0.36	202.37	442.657	0.866 S	0.087 E	-0.866	0.19
471.390	0.39	216.49	471.386	1.028 S	0.005 W	-1.028	0.10
500.190	0.46	30.62	500.186	1.008 S	0.005 W	-1.008	0.88
528.930	0.54	244.75	528.925	0.968 S	0.070 W	-0.968	1.00
557.620	0.69	258.88	557.614	1.059 S	0.363 W	-1.059	0.22
586.240	0.60	273.01	586.232	1.084 S	0.682 W	-1.084	0.19
614.910	0.68	287.14	614.900	1.026 S	0.995 W	-1.026	0.18
643.580	0.79	301.27	643.568	0.874 S	1.327 W	-0.874	0.22
654.700	1.01	315.40	654.686	0.764 S	1.461 W	-0.764	0.84

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 14.13 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED

**HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 654.700 METRES
IS 1.649 METRES ALONG 242.40 DEGREES (GRID)**

Date Printed:09 November 2004

ENCLOSURE 4

(Gas Ratio Log)

RIG MONITORING
GAS RATIO LOG

Country	: Australia
Field	: Gippsland Basin
Location	: Lat: 38° 1' 44.25" South Long: 148° 30' 27.40" East
Well	: Moby-1
Company	: Bass Strait Oil Company Ltd
Rig	: Ocean Patriot
Well	: Moby-1
Field	: Gippsland Basin
Country	: Australia
DOE Number	:
LOCATION	
	Latitude : 38° 1' 44.25" South
	Longitude: 148° 30' 27.40" East
	UTM Easting = 632,316.41 m
	UTM Northing = 5,789,884.86 m
Permanent Datum	: Mean Sea Level
Log Measured From	: Drill Floor
Drilling Measured From	: Drill Floor
Depth Logged	: 74.50 m
Date Logged	: 07-Oct-04
Total Depth MD	: 660.00 m
Spud Date	: 07-Oct-04
Borehole Record (MD)	
Size	
From	
To	
Plot Type	: Field
Plot Date	: 09-Nov-04
Run No.	
Size	
Borehole Record (MD)	
From	
To	
Weight	
Casing Record (MD)	
From	
To	
Size	
762.000 mm	
739.725 mm	
456.00 kgpm	
101.20 kgpm	
74.50 m	
74.50 m	

Bass Strait Oil Company Ltd.



GAS RATIOS PLOT

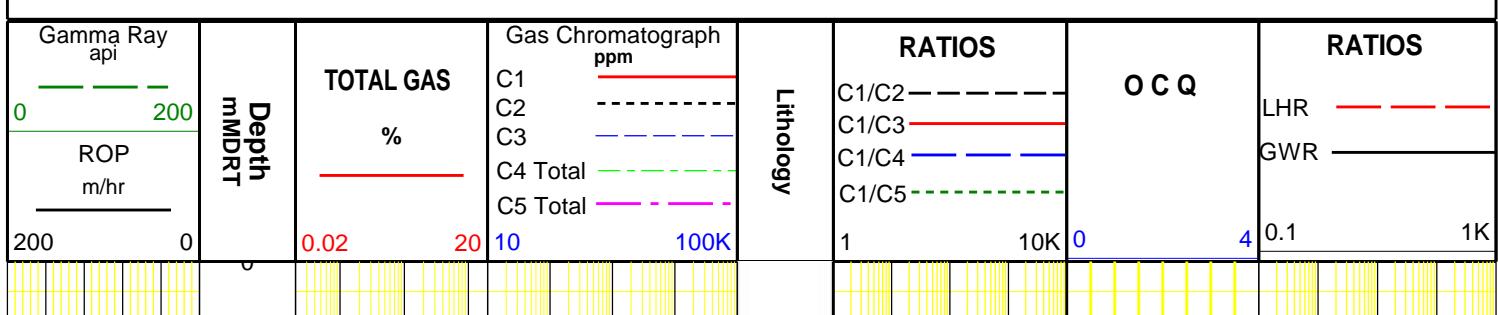
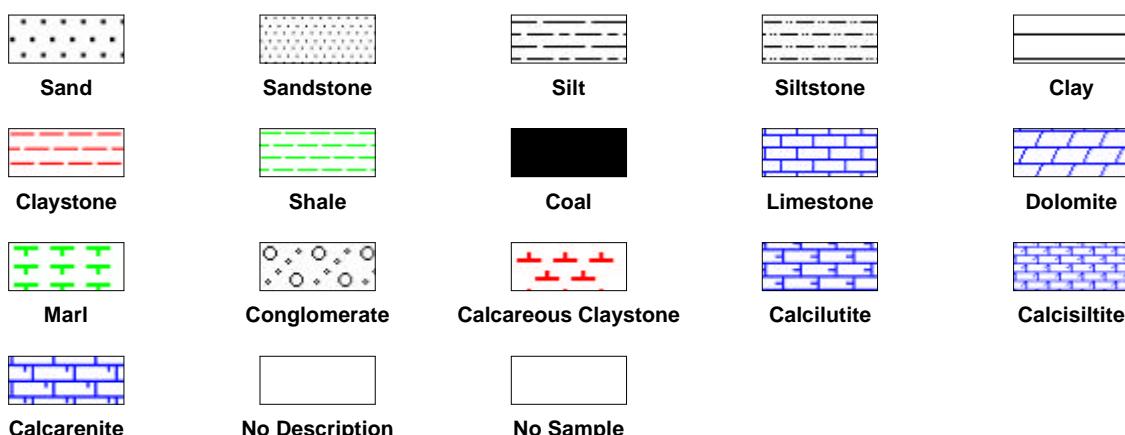
Moby-1

sperry-sun
DRILLING SERVICES

A Halliburton Company

SCALE:1:500

Depth: 74.5 - 660.0 mMDRT

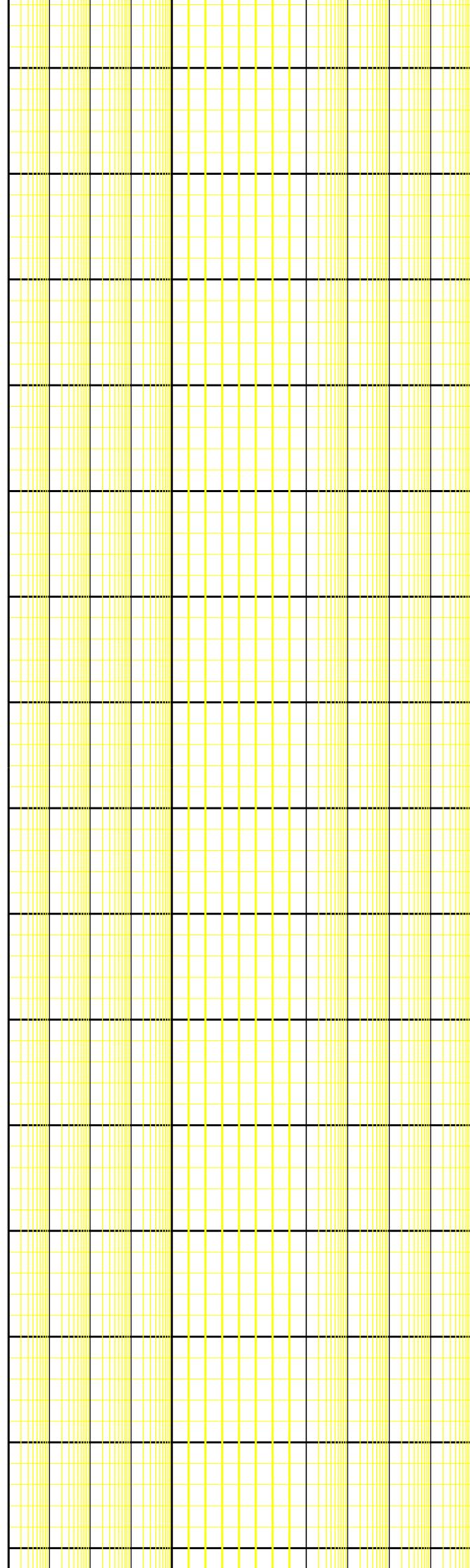
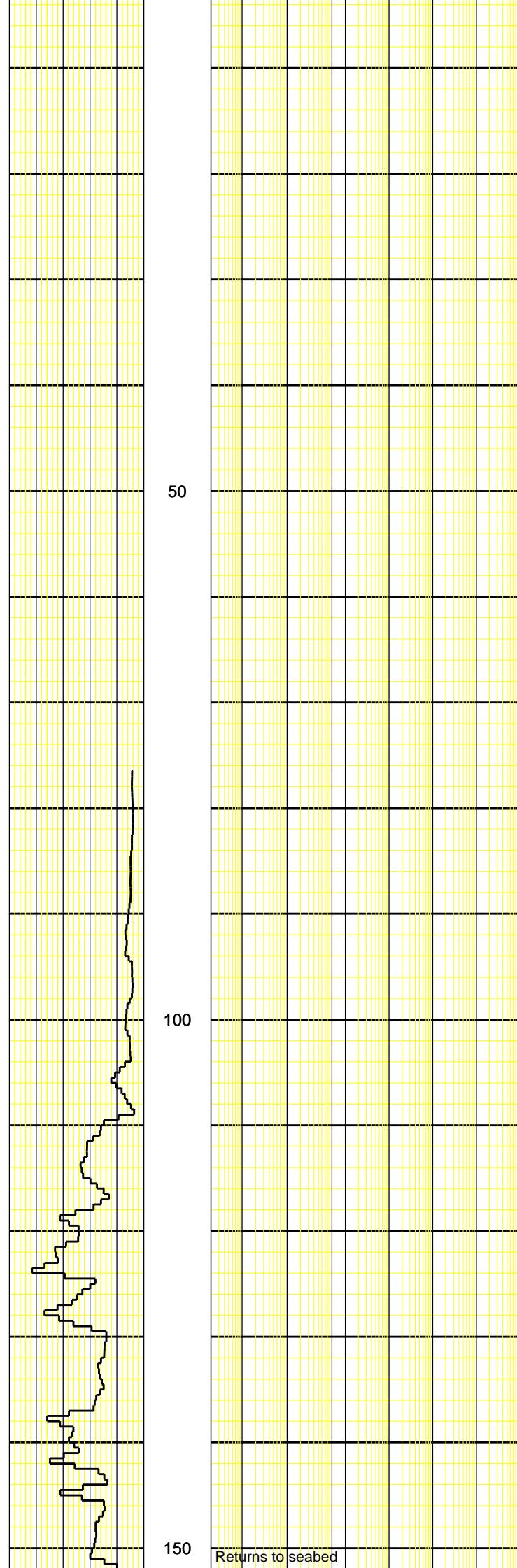


50

100

150

Returns to seabed



200

Returns to seabed

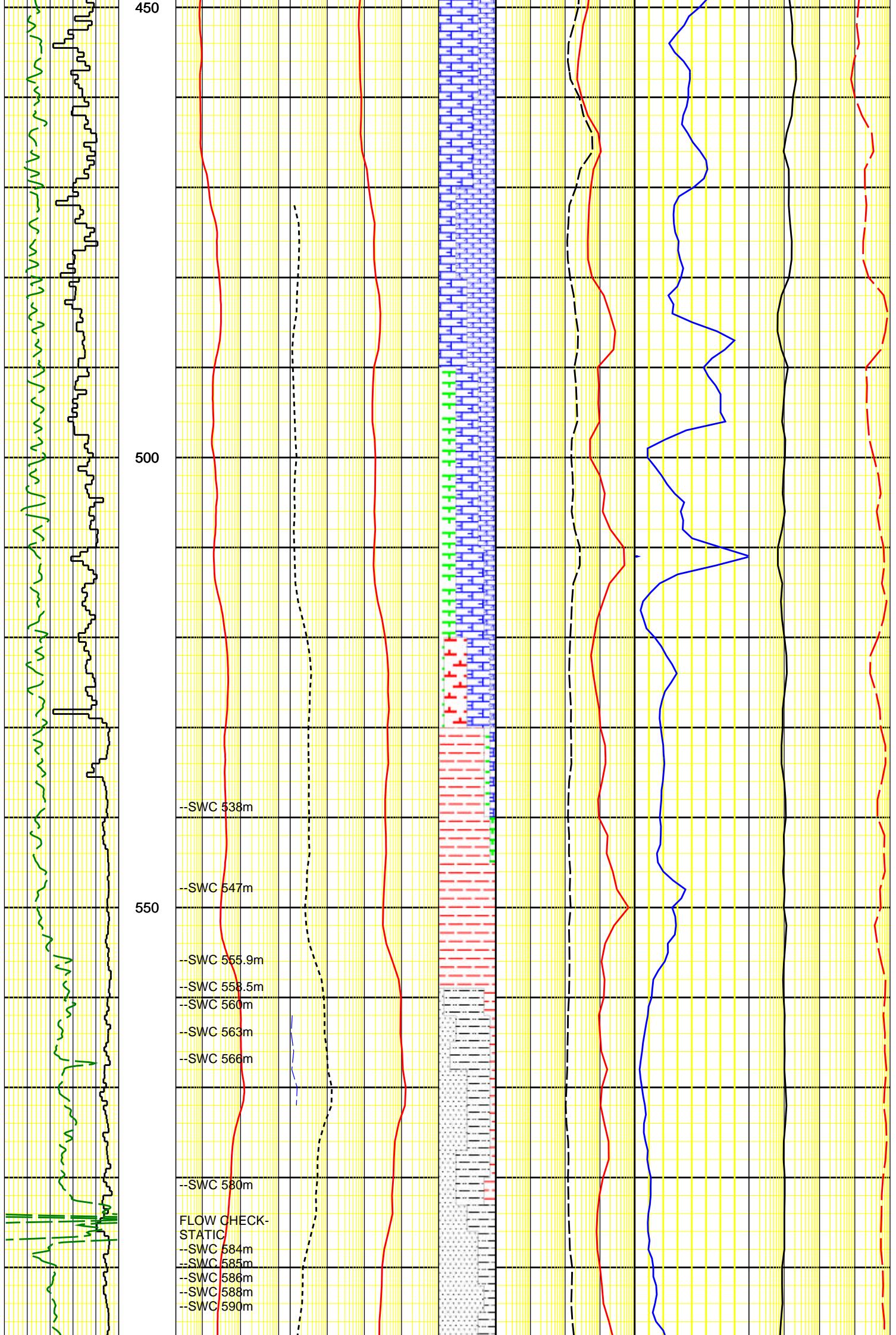
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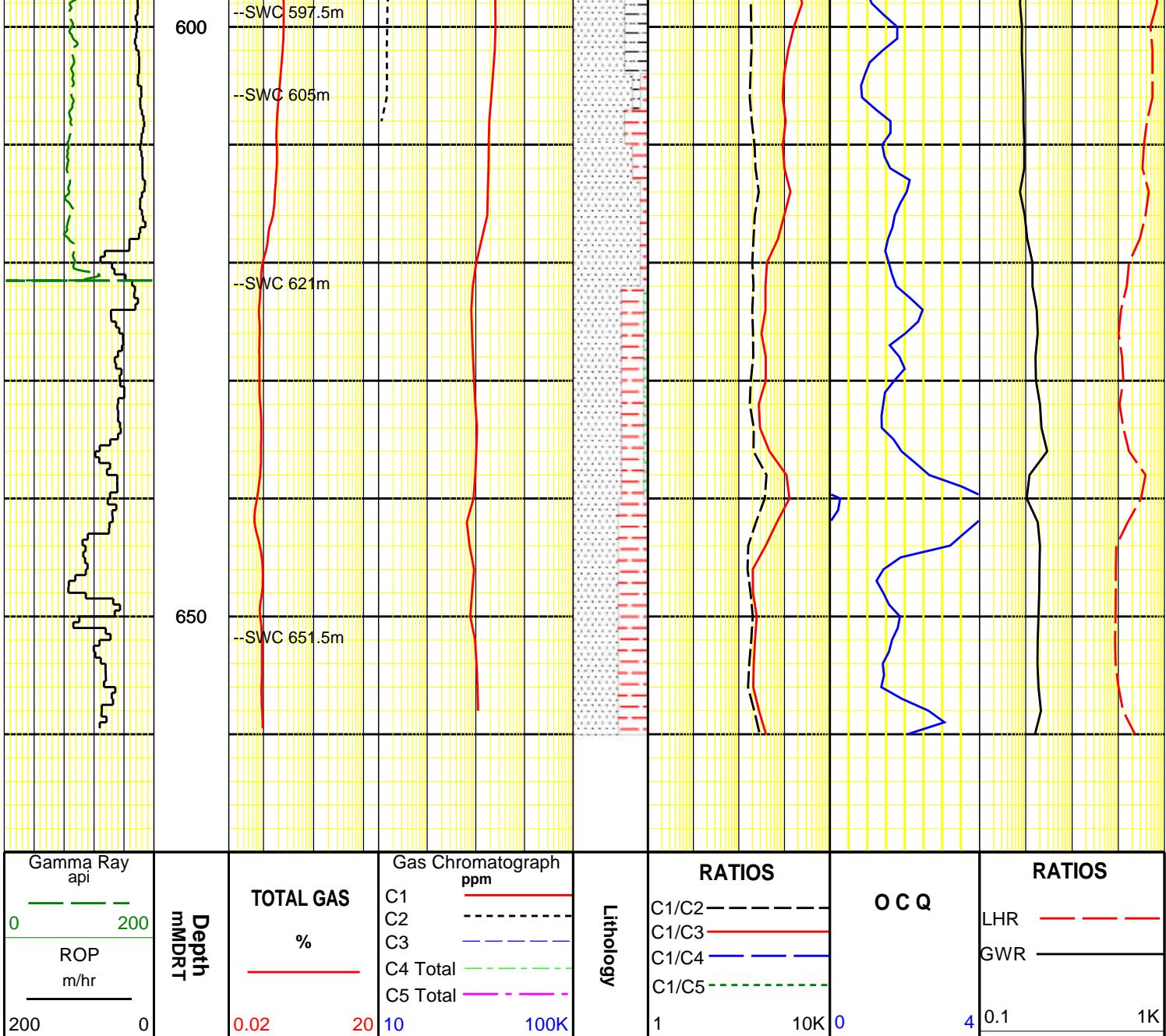
Returns to seabed

300

Returns to seabed







Bass Strait Oil Company Ltd.



GAS RATIOS PLOT

Moby-1

sperry-sun
DRILLING SERVICES
A Halliburton Company

SCALE:1:500

Depth: 74.5 - 660.0 mMDRT



Well Completion Report Construction Guidelines

End of Well Report Binder Spine Template



Moby-1 VIC/P47

WELL COMPLETION REPORT (Basic Data)

Volume 1 of 1



Moby-1 VIC/P47

WELL COMPLETION REPORT (Basic Data)

Volume 1 of 1



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Well Completion Report Construction Guidelines



Moby-1 VIC/P47

WELL COMPLETION REPORT (Basic Data)

Volume 1 of 1