

**Basker-4****Date : 20 May 2006****Geology Report Number : 18****( associated DDR # 24 )****Well Details**

Depth MDRT:	3480.0m	Rig:	OCEAN PATRIOT	Date:	20 May 2006
Depth TVDBRT:	3301.2m	RTE amsl:	21.5m	Report Start:	00:00
Depth TVDSS:	3279.7m	LAT amsl:	154.5m	Report End:	24:00
Progress:	0.0m	Last Csg Size:	13.375in	Days On Location:	22.44
Hole Size:	12.250in	Last Csg. Shoe (TVD):	987.2m	Days since Spud:	82.50
Hole Size Carbide:		Last Csg. Shoe (MD):	998.5m		
		F.I.T. / L.O.T.:	12.50ppg /		

**Operations Summary**

24hr Summary:	Rig up and run Schlumberger wireline. Complete the following:-  Run (1) HRLA-PEX-HNGS-SP from 3475m - 2950m.  Run (2) FMI-DSI-GR: P&S mode upper and lower dipole from 3475m - 2950m. Monopole from 2950m to 375m top of cement in the 13.375" casing.  Run (3) MDT-GR: complete pretests and pumpouts from 3042.5-3070m.
Forward Plan:	Continue Schlumberger wireline logging programme. Run (3) MDT-GR pretests, pumpouts and samples.

**WBM Data**

Mud Type: PHPA/KCL/Glycol	Flowline Temp:	Cl:	45000mg/l	Low Gravity Solids:	Viscosity	93sec/qt
Sample From: Active pit	MWD Circ Temp:	Hard/Ca:	400mg/l	High Gravity Solids:	PV	25cp
Time: 14:00	Glycol CP Temp:	MBT:	5	Solids (corrected):	YP	58lb/100ft <sup>2</sup>
Weight: 9.50ppg	Glycol: 1.2%vol	PM:	0.35	H2O: 91%	Gels 10s	15
ECD TD:	Nitrates:	PF:	0.05	Oil: 0%	Gels 10m	23
ECD Shoe:	Sulphites:	MF:	0.65	Sand: .25	Fann 003	12
ECD Cuttings:	API FL: 4.3cc/30min	pH:	8.8	Barite:	Fann 006	17
KCl Equiv: 8%	API Cake: 1/32nd"	PHPA Excess:			Fann 100	53
					Fann 200	71
					Fann 300	83
					Fann 600	108

**Formation Tops**

Formation	Prognosed		Actual		Diff.	Thickness (MD)	Pick Criteria
Reservoir Zone 6.2	3456.28	3210.00	3394.60	3194.50	15.50	31.60	LWD
Reservoir Zone 7	3474.00	3242.00	3426.20	3226.00	16.00	18.80	LWD
Volcanics (Unit 1)	3505.66	3254.00	3445.00	3244.80	9.20	35.00	LWD and Sample
Total Depth	3585.00	3344.00	3480.00	3301.00	43.00	0.00	

**06:00 Hrs Update**

Time:	06:00 Hrs on 21 May 2006
Depth:	3480 / 3301.27
Progress Since Midnight:	0
Drilling Status:	Performing logging run 3: MDT-GR
Formation:	Latrobe Group
Lithology:	No samples
ROP:	Wireline Logging. No drilling
Gas:	Wireline logging. No circulation

**Wellsite Geologist(s)**

(Days) - Mike Woodmansee (Nights) - Stuart Duff

**Wireline****Logging Suite Details**

Suite No.	1	Anzon Witness:	Mike Woodmansee, Stuart Duff
Wireline Depth MDRT:	4380.0	Wireline Company:	Schlumberger
Wireline Shoe Depth MDRT:	998.5	Wireline Engineer 1:	Kasian Sintoovongse



Maximum Deviation:		Wireline Engineer 2:	Kway Kway Aung
Log Header Data			
Run Number:	1	Log Top:	2950
Tool String:	HRLA/PEX/HNGS/SP	Log Bottom:	3475
Witness:	Stuart Duff, Mike Woodmansee	Conveyance:	wireline
Hole Size:	12.25		
Date Bit Reached TD:	19 May 2006	Time Bit Reached TD:	12:30
Date Circ Started:	19 May 2006	Time Circ Started:	12:30
Date Circ Stopped:	19 May 2006	Time Circ Stopped:	14:00
Date start of run operation:	19 May 2006	Time start of run operation:	23:15
Date Tool left Max Depth:	19 May 2006	Time Tool left Max Depth:	14:00
Date end of run operation:		Time end of run operation:	06:30
Run Summary:	TD intensionally not tagged. Depth correlated to downlog 5m correction applied. Run went well hole was in good condition.	Log quality Remarks:	Quality good
Max Temperature (°C) :	100	Thermometer Depth:	3452
Temperature Buildup Comments:	Temperature in deg C		
Mud Source:	Flowline		
RM Value (ohm m):	0.103	RM Temp (°C):	19
RMF Value (ohm m):	0.095	RMF Temp (°C):	20
RMC Value (ohm m):	0.15	RMC Temp (°C):	20
Log Header Data			
Run Number:	2	Log Top:	300
Tool String:	FMI/DSI/HNGS/GR	Log Bottom:	3475
Witness:	Mike Woodmansee/Stuart Duff	Conveyance:	wireline
Hole Size:	311		
Date Bit Reached TD:	19 May 2006	Time Bit Reached TD:	12:30
Date Circ Started:	19 May 2006	Time Circ Started:	12:30
Date Circ Stopped:	19 May 2006	Time Circ Stopped:	14:00
Date start of run operation:	20 May 2006	Time start of run operation:	06:30
Date Tool left Max Depth:	19 May 2006	Time Tool left Max Depth:	14:00
Date end of run operation:		Time end of run operation:	14:30
Run Summary:	Repeat section run prior to main pass from 3425m - 3370m. DSI run in P & S mode upper and lower dipole with the FMI and GR from 3475m to 2950m. From 2950m to 300m DSI run in P & S monopole mode with GR.	Log quality Remarks:	Loose DSI formation coherence at around 375m MDRT and continue to 300m to check that OK. Good overall log quality this run with no problems encountered.
Max Temperature (°C) :	101	Thermometer Depth:	3447
Temperature Buildup Comments:	x3 thermometers at top of tool.		
Mud Source:	Flowline		
RM Value (ohm m):	0.103	RM Temp (°C):	19
RMF Value (ohm m):	0.095	RMF Temp (°C):	20
RMC Value (ohm m):	0.15	RMC Temp (°C):	20
Log Header Data			
Run Number:	3	Log Top:	3042.5
Tool String:	MDT/GR	Log Bottom:	
Witness:	Stuart Duff/Mike Woodmansee	Conveyance:	Wireline
Hole Size:	311		
Date Bit Reached TD:	19 May 2006	Time Bit Reached TD:	12:30
Date Circ Started:	19 May 2006	Time Circ Started:	12:30



Date Circ Stopped:	19 May 2006	Time Circ Stopped:	14:00
Date start of run operation:	20 May 2006	Time start of run operation:	15:00
Date Tool left Max Depth:	19 May 2006	Time Tool left Max Depth:	14:00
Date end of run operation:		Time end of run operation:	
Run Summary:	Problems with the surface check of the MDT tool - unable to get/hold communication with the lower part of the tool. Pickup backup tool and change out various components. Troubleshoot and eventually find that LFA component causing the problem - problem occurs with both primary and backup LFA's. Drop LFA out of tool string. RIH and complete pretests and pumpouts over the interval.....		Log quality Remarks:
Max Temperature (°C) :		Thermometer Depth:	
Temperature Buildup Comments:			
Mud Source:	Flowline		
RM Value (ohm m):	0.103	RM Temp (°C):	20
RMF Value (ohm m):	0.095	RMF Temp (°C):	20
RMC Value (ohm m):	0.15	RMC Temp (°C):	19

**Detailed Operational Summary**

Date	Class	Start Time	End Time	Duration mins	End Depth MDRT	Activity
<b>1</b>						
19 May 2006	Productive Time	23:15	23:59	44		Safety meeting. Rig up Sheaths. Rig up Run 1 tools.
20 May 2006	Productive Time	00:00	01:15	75		Load sources and zero tools. Set zero and apply -1.4m tide correction to MSL.
20 May 2006	Productive Time	01:15	02:45	90		RIH 8000 ft/hr to 2950m 6000 ft/hr 2950m to 3440m. Down log aquired in open hole.
20 May 2006	Productive Time	02:45	03:04	19		Log repeat section from 3415m - 3340m. Maximum cable tension 5600 lbs.
20 May 2006	Productive Time	03:05	04:05	60		Start main pass from 3475m. Bottom of the hole was intentionally not tagged. Maximum cable tension 5600 lbs. Log up at 1800 ft/hr (hi-Res). Depth correction +5m from down log applied. Theoretical stretch correction +5.7m.
20 May 2006	Productive Time	04:05	05:45	100		POOH from 2950m. Check caliper in casing apply 0.15" correction.
20 May 2006	Productive Time	05:45	06:30	45		Tools at surface. Unload nuclear sources and rig down tools. Temperature 100C, 98.9C, 98.9C. from LEH-QT, measured at 3452m.
20 May 2006	Productive Time	06:30		NaN		Rig up Wireline Run (2) FMI-DSI-GR
<b>2</b>						
20 May 2006	Productive Time	06:30	07:00	30		Rig up tools
20 May 2006	Productive Time	07:00	08:40	100		RIH 8500 ft/hr, 6000ft/hr from 2951m, 4000 ft/hr from 3200m.
20 May 2006	Productive Time	08:40	09:05	25		Log Repeat section 1300 fl/hr, from 3425m - 3370m. Depth correction to Run (1) -1.3m.
20 May 2006	Productive Time	09:05	13:55	290		Main pass from 3475m. TD intentionally not tagged. Cable tension 5500 lbs. Logging speed 1280 ft/hr to 2950m. DSI run in P & S mode upper and lower dipole with the FMI and GR from 3475m to 2950m. From 2950m to 300m DSI run in P & S monopole mode with GR. Logging speed 2500-2700 ft/hr.
20 May 2006	Productive Time	13:55	14:30	35		POOH, decompensate at 80m, tool back to surface.
20 May 2006	Productive Time	14:30	15:00	30		Rig down Run 2 tool.



3						
20 May 2006	Productive Time	15:00	15:45	45		Pickup the MDT tool with 1x6 pack sample chambers . Make up tool at RT.
20 May 2006	Lost Time (Other)	15:45	16:30	45		Tool check at surface but having problems communicating with the whole tool. Pick up back-up power cartridge and substitute. Still have problem. Individually check lower most 3 components of tool (LFA, Hydraulic module , PS-Probe). Not tool components, but problem isolated as bad connection in the lower part of tool. Re-power up tool.
20 May 2006	Productive Time	16:30	16:45	15		Continue standard tool check at surface. Prepare to RIH ,but tool communication lost again as soon as RIH. Pull back to surface.
20 May 2006	Lost Time (Other)	16:45	21:10	265		Trouble shoot tool communication problem - check cable head. OK. Check voltage readings. Decide to pickup backup bottom 1/2 of the MDT tool string. Laydown lower part (9.8m total length) of primary MDT tool to catwalk. Re-make up tool. Power-up tool. Re-check tool - initially indicating that OK, but then LFA module 'went to sleep'. Replace LFA only and re-check. Not thought to be problem with LFA but appears to be voltage problem - check telemetry turn around component at bottom of tool by changing this out. Negative result. Drop out LFA again and tool check OK this time. Since both LFA's give problems, decision made to drop LFA out of tool string. Re-make up tool string. Final surface tool checks.
20 May 2006	Productive Time	21:10	22:40	90		Commence RIH (comprising whole backup MDT string except for primary string power cartridge and minus the LFA). Compensate at 80m. RIH at 4500ft/hr initially and then increase to 8000ft/hr. RIH to 3110m.
20 May 2006	Productive Time	22:40	23:05	25		Gamma correlation up from 3110-3042m. Correlation to 'Main Pass' Run 1 log - was on depth. Continue up and down slowly to stabilise gauges.
20 May 2006	Productive Time	23:05	23:59	54		Commence pretest/pumpout programme at first depth station = 3042.5m MD for pretest only. Complete pretests 1-4 (3042.5-3070m)