

29 Dec 2005

From: Ron King/ Webby
To: J Ah-Cann

DRILLING MORNING REPORT # 18

Culverin 1

Well Data							
Country	Australia	MDBRT	3385.0m	Cur. Hole Size	12.250in	AFE Cost	\$ 22699889
Field	Gippsland Basin	TVDBRT	3381.0m	Last Casing OD	13.375in	AFE No.	3433-1001
Drill Co.	DOGC	Progress	108.0m	Shoe TVDBRT	1511.8m	Daily Cost	\$ 462947
Rig	OCEAN PATRIOT	Days from spud	13.44	Shoe MDBRT	1511.8m	Cum Cost	\$ 13584951
Wtr Dpth(MSL)	585.0m	Days on well	17.35	FIT/LOT:	/ 15.80ppg	Days Since Last LTI	954
RT-ASL(MSL)	21.5m	Planned TD MD					
RT-ML	606.5m	Planned TD TVDRT					
Current Op @ 0600 Drilling ahead at XXXX.0 mMDRT in the Latrobe Group.							
Planned Op Drill ahead 311 mm (12 1/4") hole.							

Summary of Period 0000 to 2400 Hrs

Drilled ahead from 3277.0 mMDRT to 3385.0 mMDRT.

FORMATION

Name	Top
Near 68.5 Ma Sand	3103.00m
Near 70.3 Ma Sand	
Near 70.3 Ma Sand	3335.00m
TD	
TD	

Operations For Period 0000 Hrs to 2400 Hrs on 29 Dec 2005

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	DA	0000	1530	15.50	3356.0m	Drilled 311mm (12 1/4") hole from 3277m to 3356m MDRT String wt 350klbs, Tq 4-14000ftlbs, 80-150 rpm surface, 180-256rpm DH, WOB 4-25klbs, 3800-4100psi, 840-900gpm. Boost riser while drilling. ROP average 5.16m/hr (including connections) Survey results @3317m, 3.72deg, 47.74 azimuth
IH	TP (RE)	DA	1530	1630	1.00	3356.0m	Change out piston on #3 mud pump. fault find and repair blower motor fault.
IH	P	DA	1630	2400	7.50	3385.0m	Drilled 311mm (12 1/4") hole from 3356m to 3385m MDRT String wt 350klbs, Tq 4-14000ftlbs, 100-150 rpm surface, 180-256rpm DH, WOB 4-25klbs, 4200psi, 890gpm. Boost riser while drilling. ROP average 3.86m/hr (including connections) Max gas for 24hr period 0.306% Survey results @3346m, 3.65deg, 50.41 azimuth

Operations For Period 0000 Hrs to 0600 Hrs on 30 Dec 2005

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	DA	0000	0600	6.00	0.0m	Drilled 311mm (12 1/4") hole from 3385m to 3397m MDRT String wt 350klbs, Tq 4-14000ftlbs, 100-150 rpm surface, 180-256rpm DH, WOB 4-25klbs, 4200psi, 890gpm. Boost riser while drilling. ROP average 3.86m/hr (including connections) Survey results @m, deg, azimuth

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 29 Dec 2005

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
RIG MOVE/RIG-UP/PRESPUD(RM)	25.75	05 Nov 2005	14 Dec 2005	25.75	1.073	0.0m
ANCHORING(A)	44.75	14 Dec 2005	15 Dec 2005	70.50	2.937	0.0m
SURFACE HOLE(SH)	30	15 Dec 2005	17 Dec 2005	100.50	4.187	650.0m
SURFACE CASING(SC)	16.5	16 Dec 2005	17 Dec 2005	117.00	4.875	650.0m
INTERMEDIATE CASING(IC)	1	17 Dec 2005	17 Dec 2005	118.00	4.917	650.0m
RISER AND BOP STACK(BOP)	54	21 Dec 2005	23 Dec 2005	172.00	7.167	1525.0m

Phase Data to 2400hrs, 29 Dec 2005

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
INTERMEDIATE HOLE(IH)	244.5	17 Dec 2005	29 Dec 2005	416.50	17.354	3385.0m

WBM Data

Cost Today \$ 2468

Mud Type:KCL-NaCl-Polymer	API FL: 4.0cc/30min	Cl: 82000mg/l	Solids(%vol): 10%	Viscosity 57sec/qt
Sample-From: Active Pit	Filter-Cake: 1/32nd"	K+C*1000: 7%	H2O: 90%	PV 17cp
Time: 2100	HTHP-FL: 12.0cc/30min	Hard/Ca: 320mg/l	Oil(%): 0%	YP 30lb/100ft²
Weight: 10.20ppg	HTHP-cake: 1/32nd"	MBT: 6	Sand: 1.25	Gels 10s 7
Temp: 33C°		PM: 0.05	pH: 9	Gels 10m 9
		PF: 0.05	PHPA: 1ppb	Fann 003 6
				Fann 006 8
				Fann 100 28
				Fann 200 40
				Fann 300 47
				Fann 600 64
Comment NaCl 8%. Ditch magnet metal recovery 52grams				

Bit # 3

Bit # 3				Wear	I	O1	D	L	B	G	O2	R
				Bitwear Comments:								
Size ("):	12.250in	IADC#	M422	Nozzles		Drilled over last 24 hrs		Calculated over Bit Run				
Mfr:	REED HYCALOG	WOB(avg)	13.20klb	No. Size		Progress 108.0m		Cum. Progress		1860.0m		
Type:	PDC	RPM(avg)	100	2	28/32nd"	On Bottom Hrs 18.3h		Cum. On Btm Hrs		90.7h		
Serial No.:	211010	F.Rate	20.26bpm	4	18/32nd"	IADC Drill Hrs 0.0h		Cum IADC Drill Hrs		73.5h		
Bit Model	RSX 616	SPP	3800psi			Total Revs 275		Cum Total Revs		1407		
Depth In	1525.0m	HSI				ROP(avg) 5.90 m/hr		ROP(avg)		20.51 m/hr		
Depth Out		TFA	2.197									
Bit Comment												

BHA # 3

Weight(Wet)	40.00klb	Length	268.4m	Torque(max)	14000ft-lbs	D.C. (1) Ann Velocity	256fpm
Wt Below Jar(Wet)	30.00klb	String	350.00klb	Torque(Off.Btm)	3000ft-lbs	D.C. (2) Ann Velocity	384fpm
		Pick-Up	350.00klb	Torque(On.Btm)	6000ft-lbs	H.W.D.P. Ann Velocity	176fpm
		Slack-Off	360.00klb			D.P. Ann Velocity	176fpm

BHA Run Description Annular velocity based on 900gpm

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.25m	12.250in		211010	Reed Hycalog RSX 616M 244mm(9 5/8") Sperrydrill Lobe 6/7 - 5.0 stg Motor
Mud Motor	8.58m	9.625in	6.135in	963006	
X/O	1.22m	9.438in	2.875in	A639	Non-mag integral blade string stab
Stab	1.81m	12.125in	2.875in	694776	
MWD	24.39m	8.000in	1.920in		DIR/HCIM-EWR-DGR-CTN-SLD-ACAL-HOC.
8in DC	9.06m	8.000in	2.875in	18600035	
Stab	2.10m	12.125in	2.875in	47607	Integral blade string stabilizer
8in DC	8.68m	8.000in	2.875in	1860026	
Drilling Jars	9.31m	8.188in	3.063in	11150D	Drilling jars used in surface hole section.
8in DC	8.81m	8.000in	2.875in	18600031	
X/O	1.16m	8.500in	2.875in	MSO1930-2	
5in HWDP	192.98m	5.000in	2.875in		

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
3317.48	3.7	47.7	3314.07	88.8	73.9	49.3	0.1	MWD
3346.36	3.7	50.4	3342.89	90.6	75.1	50.7	0.2	MWD

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	
Barite Bulk	MT	0	0	0	117.2	
Bentonite Bulk	MT		0	0	38.1	
Diesel	m3	0	18.7	0	333.2	
Fresh Water	m3	29	15.4	0	159.4	
Drill Water	m3	0	113	0	482.2	
Cement G	MT		0	0	79.9	
Cement HT (Silica)	MT		0	0	0.0	

Pumps																	
Pump Data - Last 24 Hrs								Slow Pump Data									
No.	Type	Liner (in)	MW (ppg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (bpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (bpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (bpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (bpm)
2	12P160	6.000	10.20	97	101	4200	10.24	3275.0	30	320	3.00	40	360	4.00	50	450	5.00
3	12P160	6.000	10.20	97	101	4200	10.24	3275.0	30	320	3.00	40	360	4.00	50	450	5.00

Casing					
OD (in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	Csg Landing Depth MD (m)	Csg Landing Depth TVD (m)	LOT/FIT (ppg)
	650.30	650.30	604.40	604.40	
	1511.77	1511.77	603.50	603.50	

Personnel On Board		
Company	Pax	Comment
DOGC	41	
DOGC	3	extra Crane operator, dogman, welder
ESS	8	
NEXUS	7	Michele Zaunbrecher, Julie Ang
FUGRO SURVEY LTD (ROV)	3	
DOWELL SCHLUMBERGER	2	
M-1 AUSTRALIA PTY LTD	3	One swaco hand for new shaker being assessed for Diamond
GEOSERVICES OVERSEAS S.A.	6	
HALLIBURTON AUSTRALIA PTY LTD - SPERRY SUN	5	One trainee
Total	78	

HSE Summary				
Events	Date of last	Days Since	Descr.	Remarks
Abandon Drill	26 Dec 2005	3 Days	Held weekly abandon rig drill	Carry out environmental audit by Nexus shorebase personnel.
Environmental Issue	29 Dec 2005	0 Days	Environmental Audit	
Fire Drill	26 Dec 2005	3 Days	Held weekly fire drill	
JSA	29 Dec 2005	0 Days	Deck = 5, Mech = 3, Drill = 2, Welder = 2,	
Safety Meeting	26 Dec 2005	3 Days	Weekly safety meetings with all crew members.	
STOP Card	29 Dec 2005	0 Days	Safe = 2, Un-safe = 8	

Shakers, Volumes and Losses Data								
Available	2,907bbl	Losses	235bbl	Equip.	Descr.	Mesh Size		
Active	496bbl	Equipment	235bbl	Shaker1	VSM 100	4 x 165		
Hole	2,006bbl			Shaker2	VSM 100	2 x 120 / 2 x 165		
Reserve	405bbl			Shaker3	VSM 100	2 x 120 / 2 x 165		
				Shaker4	BEM650	2 x 120 / 2 x 165		

Marine

Weather on 29 Dec 2005								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (klb)	
10.0nm	5kn	270.0deg	1014.0mbar	17C°	2.0m	270.0deg	2s	1	245.0	
Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments				
272.0deg	456.00klb	4578.40klb	2.0m	248.0deg	7s					
Comments										
						7				
						8				
Vessel Name		Arrived (Date/Time)		Departed (Date/Time)		Status		Bulks		
Far Grip						Item		Unit	Used	Quantity
						Diesel		CuMtr		357
						Fresh Water		CuMtr		67
						Drill Water		CuMtr		50
						Cement G		Mt		0
						Cement HT (Silica)		Mt		54
						Barite Bulk		Mt		89
						SOF's: Fuel 362m3, Potable water 70m3, Drill water 50m3, silica cmt 54t, barite 89t. Fuel usage by Crystal Ocean 126m3.				
Pacific Wrangler				At rig		Item		Unit	Used	Quantity
						Diesel		CuMtr		607.7
						Fresh Water		CuMtr		190
						Drill Water		CuMtr		320
						Cement G		Mt		132
						Cement HT (Silica)		Mt		0
						Barite Bulk		Mt		0
						Bentonite Bulk		Mt		42
Passed 300m3 of drill water to rig.										
Helicopter Movement										
Flight #		Company		Arr/Dep. Time		Pax In/Out		Comment		
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD		0920 / 0925		9 / 10					