

28 Dec 2005

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

DRILLING MORNING REPORT # 17
Culverin 1

Well Data							
Country	Australia	MDBRT	3277.0m	Cur. Hole Size	12.250in	AFE Cost	\$ 22699889
Field	Gippsland Basin	TVDBRT	3274.0m	Last Casing OD	13.375in	AFE No.	3433-1001
Drill Co.	DOGC	Progress	162.0m	Shoe TVDBRT	1511.8m	Daily Cost	\$ 503334
Rig	OCEAN PATRIOT	Days from spud	12.44	Shoe MDBRT	1511.8m	Cum Cost	\$ 13122004
Wtr Dpth(MSL)	585.0m	Days on well	16.35	FIT/LOT:	/ 15.80ppg	Days Since Last LTI	953
RT-ASL(MSL)	21.5m	Planned TD MD					
RT-ML	606.5m	Planned TD TVDRT					
Current Op @ 0600 Drilling ahead at 3308.0 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 3115.0 mMDRT to 3277.0 mMDRT.							

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

Operations For Period 0000 Hrs to 2400 Hrs on 28 Dec 2005

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	DA	0000	1030	10.50	3226.0m	Drilled 311mm (12 1/4") hole from 3115m to 3226m MDRT String wt 340klbs, Tq 6-14000ftlbs, 80-150 rpm surface, 180-256rpm DH, WOB 5-20klbs, 3900psi, 875gpm. Boost riser while drilling. ROP average 10.57m/hr (including connections) Survey results @3202.65m, 3.71deg, 48.97 azimuth
IH	TU (RE)	DA	1030	1200	1.50	3266.0m	Drilling operations suspended due to riser flex joint bullseye reading exceeding "GEM's" guidelines. Circulate while trying to maneuver rig with anchor winches. Wind 35-40 knots, Seas 1.5m WSW, Swell 1.5m NE
IH	P	DA	1200	2400	12.00	3277.0m	Drilled 311mm (12 1/4") hole from 3226m to 3277m MDRT String wt 340klbs, Tq 6-14000ftlbs, 80-150 rpm surface, 180-256rpm DH, WOB 5-25klbs, 4100psi, 860gpm. Boost riser while drilling. ROP average 4.25m/hr (including connections) Survey results @3202.65m, 3.71deg, 48.97 azimuth

Operations For Period 0000 Hrs to 0600 Hrs on 29 Dec 2005

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	DA	0000	0600	6.00	3308.0m	Drilled 311mm (12 1/4") hole from 3277m to 3308m MDRT String wt 350klbs, Tq 4-14000ftlbs, 80-150 rpm surface, 180-256rpm DH, WOB 5-20klbs, 3800-4100psi, 860gpm. Boost riser while drilling. ROP average 5.16m/hr (including connections) Survey results @3260m, 3.66deg, 49.86 azimuth

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 28 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	2.938	0.0m	
SURFACE HOLE(SH)	30	15 Dec 2005	17 Dec 2005	100.50	4.188	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, 28 Dec 2005

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
INTERMEDIATE HOLE(IH)	220.5	17 Dec 2005	28 Dec 2005	392.50	16.354	3277.0m

WBM Data

Cost Today \$ 49325

Mud Type:KCL-NaCl-Polymer	API FL: 4.0cc/30min	Cl: 81500mg/l	Solids(%vol): 10%	Viscosity 57sec/qt
Sample-From: Active Pit	Filter-Cake: 1/32nd"	K+C*1000: 8%	H2O: 90%	PV 17cp
Time: 2100	HTHP-FL: 12.0cc/30min	Hard/Ca: 260mg/l	Oil(%): 0%	YP 26lb/100ft²
Weight: 10.30ppg	HTHP-cake: 1/32nd"	MBT: 6	Sand: 1.25	Gels 10s 6
Temp: 32C°		PM: 0.05	pH: 9	Gels 10m 9
		PF: 0.05	PHPA: 1ppb	Fann 003 5
				Fann 006 7
				Fann 100 26
				Fann 200 36
				Fann 300 43
				Fann 600 60
Comment NaCl 8%. Ditch magnet metal recovery 60 grams				

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	162.0m	Cum. Progress		1752.0m		
Type:	PDC	RPM(avg)	140	2	28/32nd"	On Bottom Hrs	17.5h	Cum. On Btm Hrs		72.4h		
Serial No.:	211010	F.Rate	20.47bpm	4	18/32nd"	IADC Drill Hrs	22.5h	Cum IADC Drill Hrs		73.5h		
Bit Model	RSX 616	SPP	3800psi			Total Revs	275	Cum Total Revs		1132		
Depth In	1525.0m	HSI				ROP(avg)	9.26 m/hr	ROP(avg)		24.20 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)	8000ft-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
3173.79	3.7	49.6	3170.67	80.0	67.8	42.4	0.1	MWD
3260.37	3.7	49.9	3257.07	71.4	71.4	46.5	0.2	MWD

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	
Barite Bulk	MT	0	5.85	0	117.2	
Bentonite Bulk	MT		0	0	38.1	
Diesel	m3	0	23.3	0	351.9	
Fresh Water	m3	31	35.3	0	145.8	
Drill Water	m3	300	108.5	0	595.2	
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	10.30	97	101	4100	10.24	3275.0	30	320	3.00	40	360	4.00	50	450	5.00
3	12P160	6.000	10.30	97	101	4100	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	43	extra Crane operator, dogman, welder
DOGC	3	
ESS	8	
NEXUS	5	
FUGRO SURVEY LTD (ROV)	3	
DOWELL SCHLUMBERGER	3	One swaco hand for new shaker being assessed for Diamond
M-1 AUSTRALIA PTY LTD	3	
GEOSERVICES OVERSEAS S.A.	6	One trainee
HALLIBURTON AUSTRALIA PTY LTD - SPERRY SUN	5	
Total	79	

HSE Summary				
Events	Date of last	Days Since	Descr.	Remarks
Abandon Drill	26 Dec 2005	2 Days	Held weekly abandon rig drill	
Fire Drill	26 Dec 2005	2 Days	Held weekly fire drill	
JSA	28 Dec 2005	0 Days	Deck = 9, Drill = 3, Welder = 2,	
Safety Meeting	26 Dec 2005	2 Days	Weekly safety meetings with all crew members.	
STOP Card	28 Dec 2005	0 Days	Safe = 5, Un-safe = 4	

Shakers, Volumes and Losses Data								
Available	3,140bbl	Losses	341bbl	Equip.	Descr.	Mesh Size		
Active	498.3bbl	Equipment	341bbl	Shaker1	VSM 100	4 x 165		
Hole	1,956.7bbl			Shaker2	VSM 100	4 x 165		
Reserve	685bbl			Shaker3	VSM 100	4 x 120		
				Shaker4	BEM650	4 x 165		

Marine

Weather on 28 Dec 2005								Rig Support						
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (klb)					
10.0nm	10kn	225.0deg	1011.0mbar	20C°	1.0m	247.0deg	3s	1	247.0					
Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	269.0					
272.0deg	444.00klb	4656.20klb	2.0m	225.0deg	8s			3	176.0					
Comments								4	256.0					
								5	265.0					
								6	333.0					
								7	298.0					
								8	282.0					
Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks										
Far Grip		0100	Currently at Crystal Ocean servicing her fuel and cargo requirements	Item	Unit	Used	Quantity							
				Diesel	CuMtr			488						
				Fresh Water	CuMtr			73						
				Drill Water	CuMtr			50						
				Cement G	Mt			0						
				Cement HT (Silica)	Mt			54						
				Barite Bulk	Mt			89						
SOF's at Departure from Patriot. Fuel 488m3, Drill water 50m3, potable water 73m3, Barite 89mt, Sil Cement 54mt. Deprature time 0100hrs														
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.														