

05 Jan 2006

From: Ron King/ Geoff Webster  
To: J Ah-Cann

**DRILLING MORNING REPORT # 25**

**Culverin 1**

Well Data							
Country	Australia	MDBRT	3697.0m	Cur. Hole Size	12.250in	AFE Cost	\$ 22699889
Field	Gippsland Basin	TVDBRT	3693.0m	Last Casing OD	13.375in	AFE No.	3433-1001
Drill Co.	DOGC	Progress	78.0m	Shoe TVDBRT	1511.8m	Daily Cost	\$ 464894
Rig	OCEAN PATRIOT	Days from spud	20.44	Shoe MDBRT	1511.8m	Cum Cost	\$ 16936897
Wtr Dpth (LAT)	585.0m	Days on well	23.77	FIT/LOT:	/ 15.80ppg	Days Since Last LTI	961
RT-ASL (LAT)	21.5m	Planned TD MD					
RT-ML	606.5m	Planned TD TVDRT					
Current Op @ 0600 Drilling ahead 311 mm (12 1/4") hole at 3718.0 mMDRT.							
Planned Op Drill ahead 311 mm (12 1/4") hole.							

Summary of Period 0000 to 2400 Hrs							
Drilled ahead from 3619.0 mMDRT to 3697.0 mMDRT at midnight.							

FORMATION	
Name	Top
Base Funa Flounder Channel	2835.00m
Top 67.5 Ma Sand	2836.00m
Near 68.5 Ma Sand	3103.00m
Near 70.3 Ma Sand	3478.00m
TD	

**Operations For Period 0000 Hrs to 2400 Hrs on 05 Jan 2006**

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	DA	0000	2400	24.00	3697.0m	Drilled ahead 311mm (12 1/4") hole from 3619m MDRT to 3697m MDRT. WOB = 30 - 41 klbs, RPM = 80- 120, SPM = 187 = 800 GPM, 4050 psi, Tq = 5500 - 7500 ftlb. Average ROP = 3.55m/hr  Max Gas today = 103 units @ 3695m MDRT

**Operations For Period 0000 Hrs to 0600 Hrs on 06 Jan 2006**

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	DA	0000	0400	4.00	3697.0m	Drilled ahead 311mm (12 1/4") hole from 3697m MDRT to 3714m MDRT. WOB = 30 - 35 klbs, RPM = 80- 120, SPM = 187 = 800 GPM, 4050 psi, Tq = 5500 - 7500 ftlb. Average ROP = 4.3 m/hr  LWD tools stopped pulsing
IH	U	RR	0400	0430	0.50	3714.0m	Backed out IBOP on connection. Re aligned top drive and screwed back into IBOP. Torqued same to 78000 ftlbs. Confirmed alignment of breakout/Make up system
IH	P	DA	0430	0600	1.50	3718.0m	Troubleshooted LWD tools. No sucess. Drilled Ahead 311mm (12 1/4") hole from 3714m MDRT to 3718m MDRT

**Operations For Period Hrs to Hrs on**

Phase Data to 2400hrs, 05 Jan 2006						
Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
RIG MOVE/RIG-UP/PRESPUD(RM)	23.5	05 Nov 2005	14 Dec 2005	23.50	0.979	0.0m
ANCHORING(A)	33	14 Dec 2005	15 Dec 2005	56.50	2.354	0.0m
SURFACE HOLE(SH)	30	15 Dec 2005	17 Dec 2005	86.50	3.604	650.0m
SURFACE CASING(SC)	16.5	16 Dec 2005	17 Dec 2005	103.00	4.292	650.0m
INTERMEDIATE CASING(IC)	1	17 Dec 2005	17 Dec 2005	104.00	4.333	650.0m
RISER AND BOP STACK(BOP)	54	21 Dec 2005	23 Dec 2005	158.00	6.583	1525.0m
INTERMEDIATE HOLE(IH)	412.5	17 Dec 2005	05 Jan 2006	570.50	23.771	3697.0m

WBM Data			Cost Today \$ 0				
Mud Type:KCL-NaCl-Polymer		API FL: 3.6cc/30min	Cl: 79000mg/l	Solids(%vol): 10%		Viscosity	61sec/qt
Sample-From: Active Pit	Filter-Cake: 1/32nd"	K+C*1000: 7%	H2O: 90%	PV		16cp	
Time: 22:30	HTHP-FL: 11.0cc/30min	Hard/Ca: 200mg/l	Oil(%): 0%	YP		30lb/100ft²	
Weight: 10.20ppg	HTHP-cake: 1/32nd"	MBT: 7.5	Sand: .8	Gels 10s		8	
Temp: 49C°		PM: 0.3	pH: 9	Gels 10m		12	
		PF: 0.06	PHPA: 1ppb	Fann 003		6	
				Fann 006		9	
				Fann 100		28	
				Fann 200		39	
Comment	NaCl 8%. Ditch Magent recovery = 186 grams			Fann 300		46	
				Fann 600		62	

Bit # 5RR				Wear	I	O1	D	L	B	G	O2	R
				Bitwear Comments:								
Size ("):	12.250in	IADC#	5-3-7	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	SMITH BITS	WOB(avg)	34.00klb	No.	Size	Progress		78.0m	Cum. Progress		126.0m	
Type:	Rock	RPM(avg)	101	3	20/32nd"	On Bottom Hrs		22.0h	Cum. On Btm Hrs		34.6h	
Serial No.:	MX1628	F.Rate	19.00bpm			IADC Drill Hrs		24.0h	Cum IADC Drill Hrs		38.0h	
Bit Model	GF30BOVCPS	SPP	4014psi			Total Revs		139	Cum Total Revs		139	
Depth In	3571.0m	HSI				ROP(avg)		3.55 m/hr	ROP(avg)		3.64 m/hr	
Depth Out		TFA	0.9204									
Bit Comment												

BHA # 6							
Weight(Wet)	65.00klb	Length	276.3m	Torque(max)	7700ft-lbs	D.C. (1) Ann Velocity	256fpm
Wt Below Jar(Wet)	45.00klb	String	385.00klb	Torque(Off.Btm)	2500ft-lbs	D.C. (2) Ann Velocity	384fpm
		Pick-Up	375.00klb	Torque(On.Btm)	6400ft-lbs	H.W.D.P. Ann Velocity	176fpm
		Slack-Off	385.00klb			D.P. Ann Velocity	176fpm

BHA Run Description Annular velocity based on 900gpm

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.33m	12.250in		MX1628	Smith GF30BOVCPS
Bit Sub	1.10m	8.500in		1860001	
8in DC	9.04m	7.875in	2.875in	1860001	
Stab	1.81m	12.125in	2.875in	694776	
MWD	24.41m	8.000in	1.920in		
					Non-mag integral blade string stab
					DIR/HCIM-EWR-DGR-CTN-SLD-ACAL-HOC.
8in DC	9.06m	8.000in	2.875in	18600011	Integral blade string stabilizer
Stab	2.10m	12.125in	2.875in	47607	
8in DC	70.57m	8.000in	2.875in		
Drilling Jars	9.66m	8.188in	3.063in	MHA00206	
8in DC	8.81m	8.000in	2.875in	18600031	
X/O	1.16m	8.500in	2.875in	MSO1930-2	
5in HWDP	138.22m	5.000in	2.875in		

Survey								
MD	Incl	Azim	TVD	Vsec	N-S	E-W	DLS	Tool Type
(m)	(deg)	(deg)	(m)	(deg)	(m)	(m)	(deg/30m)	
3641.38	3.0	50.2	3637.40	107.2	85.8	64.2	0.0	MWD

Bulk Stocks					
Name	Unit	In	Used	Adjust	Balance
Barite Bulk	MT	0	0	0	113.8
Bentonite Bulk	MT	0	0	0	38.1
Diesel	m3	0	26.8	-0.1	293.0

Bulk Stocks					
Name	Unit	In	Used	Adjust	Balance
Fresh Water	m3	35	34.6	0	170.7
Drill Water	m3	0	55.3	0	474.9
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)
1	A1700	6.000	10.20	97	94	4000	9.58	3600.0	30	380	3.00	40	475	4.00	50	580	5.00
2	12P160	6.000	10.20	97	94	4000	9.58	3600.0	30	390	3.00	40	480	4.00	50	580	5.00
3	12P160	6.000	10.20	97	0	0	0.00	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	48	extra Crane operator, dogman, welder
ESS	9	
NEXUS	5	
FUGRO SURVEY LTD (ROV)	3	
DOWELL SCHLUMBERGER	2	One swaco hand for new shaker being assessed for Diamond
M-1 AUSTRALIA PTY LTD	3	
GEOSERVICES OVERSEAS S.A.	6	
HALLIBURTON AUSTRALIA PTY LTD - SPERRY SUN	4	One trainee
Total	80	

HSE Summary				
Events	Date of last	Days Since	Descr.	Remarks
Abandon Drill	01 Jan 2006	4 Days	Held weekly abandon rig drill	Environmental audit by Nexus shorebase personnel.
Environmental Issue	29 Dec 2005	7 Days	Environmental Audit	
Fire Drill	01 Jan 2006	4 Days	Held weekly fire drill	
JSA	05 Jan 2006	0 Days	Deck = 6, Mech = 2, Drill = 2	
Man Overboard Drill	30 Dec 2005	6 Days	Held Man Over Board Drill	
Safety Meeting	01 Jan 2006	4 Days	Weekly safety meetings with all crew members.	
STOP Card	05 Jan 2006	0 Days	Safe = 4, Un-safe = 4	

Shakers, Volumes and Losses Data					
Available	2,945bbl	Losses	90bbl	Equip.	Mesh Size
Active	434.5bbl	Equipment	90bbl	Shaker1	VSM 100
Hole	2,140.5bbl	Desilter	50bbl	Shaker2	VSM 100
Reserve	370bbl			Shaker3	VSM 100
				Shaker4	BEM650

Marine
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Weather on 05 Jan 2006								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (klb)	
10.0nm	35kn	70.0deg	1020.0mbar	21C°	2.0m	70.0deg	5s	1	236.0	
Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments				
272.0deg	552.00klb	4411.40klb	2.5m	70.0deg	8s					
Comments										
								7	267.0	
								8	260.0	
Vessel Name		Arrived (Date/Time)		Departed (Date/Time)		Status		Bulks		
Far Grip	24:00 3 Jan 2006				On Location		Item	Unit	Used	Quantity
							Diesel	CuMtr		320
							Fresh Water	CuMtr		595
							Drill Water	CuMtr		480
							Cement G	Mt		48
							Cement HT (Silica)	Mt		54
							Barite Bulk	Mt		89
								Mt		42
Pacific Wrangler			22:15 4 Jan 2006		Enroute Melbourne, ETA 02:00 6 Jan 2006		Item	Unit	Used	Quantity
							Diesel	CuMtr		223.9
							Fresh Water	CuMtr		155
							Drill Water	CuMtr		0
							Cement G	Mt		132
							Cement HT (Silica)	Mt		0
							Barite Bulk	Mt		0
							Bentonite Bulk	Mt		42
Helicopter Movement										
Flight #		Company		Arr/Dep. Time		Pax In/Out		Comment		
1		BRISTOW HELICOPTERS AUSTRALIA PTY LTD		09:55 / 10:25		11 / 7				