

24 Dec 2005

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

DRILLING MORNING REPORT # 13

Culverin 1

Well Data							
Country	Australia	MDBRT	1,544.0m	Cur. Hole Size	12.250in	AFE Cost	\$ 22699889
Field	Gippsland Basin	TVDBRT	1,544.0m	Last Casing OD	13.375in	AFE No.	3433-1001
Drill Co.	DOGC	Progress	19.0m	Shoe TVDBRT	1,511.8m	Daily Cost	\$ 465794
Rig	OCEAN PATRIOT	Days from spud	8.44	Shoe MDBRT	1,511.8m	Cum Cost	\$ 11174865
Wtr Dpth(MSL)	585.0m	Days on well	12.35	FIT/LOT:	/ 15.80ppg	Days Since Last LTI	949
RT-ASL(MSL)	21.5m	Planned TD MD					
RT-ML	606.5m	Planned TD TVDRT					
Current Op @ 0600 Drilling 311mm (12 1/4") hole @ 1670m							
Planned Op Drill ahead 311 mm (12 1/4") hole.							

Summary of Period 0000 to 2400 Hrs

Completed making up 311 mm (12 1/4") BHA. RIH and picked up drillpipe on the way in hole. Drilled out the shoetrack. Displaced the well to mud. Drilled ahead 3 m of new formation. Conducted LOT to 1.89 sg EMW at 1528.0 mMDRT. Drilled ahead to 1544.0 mMDRT.

Operations For Period 0000 Hrs to 2400 Hrs on 24 Dec 2005

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	HBHA	0000	0300	3.00	1,525.0m	Complete making up 311mm (12 1/4") BHA. Up-link MWD, install Radio-active source. Run BHA from derrick to 1st joint of HWDP. Shallow test Down hole motor and tools ok. 800gpm 650psi.
IH	P	HBHA	0300	0330	0.50	1,525.0m	Picked up 55m(180') of HWDP.
IH	P	PUP	0330	0900	5.50	1,525.0m	Picked up 745m (2444') of 127mm (5")dp. Functioned diverter insert packer ok.
IH	P	BOP	0900	0930	0.50	1,525.0m	Function tested BOP's on yellow pod ok.
IH	TP (BORC)	BOP	0930	1130	2.00	1,525.0m	Attempt function test on blue pod, Run-away observed on open function for upper annular. Function several times and uncontrolled flow stopped. Change back to yellow pod and upper annular functions ok. Proceed with operations after discussing equipment failure. Signs made for all BOP panels stating not to operate upper annular on blue pod. Currently drilling on Blue pod.
IH	P	TI	1130	1330	2.00	1,525.0m	Ran in hole from 1014m to 1478m, Washed down to top of cement @1478m
IH	P	DFS	1330	1900	5.50	1,528.0m	Drilled cement, plugs, shoe track. Displaced well to 9.5ppg mud while drilling out cmt and making 3m of new hole to 1528m
IH	P	CHC	1900	2000	1.00	1,528.0m	Circulated hole clean and ensured 9.5ppg in/out for Leak off test.
IH	P	LOT	2000	2100	1.00	1,528.0m	Performed LOT against lower annular.
IH	P	DA	2100	2400	3.00	1,544.0m	9.5ppg test mud weight, 1511.77m TVD, 1625psi, EMW 15.8ppg.1.89sg, Take SCR's, CLFL. Drilled 311mm (12 1/4") hole from 1528m to 1544m. Reduced parameters until stabilizers are out of casing(1558m) String wt 240klbs, Tq 2-4000ftlbs, 50-60 rpm surface, 150rpm DH, WOB 5-10klbs, 1800psi, 790gpm.

Operations For Period 0000 Hrs to 0600 Hrs on 25 Dec 2005

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	DA	0000	0600	6.00	1,670.0m	Drilled 311mm 12 1/4" hole from 1544m to 1670m String wt 240klbs, Tq 2-4000ftlbs, 100 rpm surface, 210rpm DH, WOB 15-20klbs, 1800psi, 850gpm.

Phase Data to 2400hrs, 24 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	1,525.0m

Phase Data to 2400hrs, 24 Dec 2005

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
INTERMEDIATE HOLE(IH)	124.5	17 Dec 2005	24 Dec 2005	296.50	12.354	1,544.0m

WBM Data

Cost Today \$ 27976

Mud Type:KCL-NaCl-Polymer	API FL: 6.6cc/30min	Cl: 36000mg/l	Solids(%vol): 5%	Viscosity 48sec/qt
Sample-From: Active Pit	Filter-Cake: 1/32nd"	K+C*1000: 3%	H2O: 95%	PV 10cp
Time: 2100	HTHP-FL:	Hard/Ca: 240mg/l	Oil(%): 0%	YP 13lb/100ft²
Weight: 9.50ppg	HTHP-cake: 1/32nd"	MBT: 1	Sand: 0	Gels 10s 4
Temp: 20C°		PM:	pH: 9.5	Gels 10m 6
		PF: 0.35	PHPA: 0ppb	Fann 003 3
				Fann 006 4
				Fann 100 14
				Fann 200 19
				Fann 300 23
				Fann 600 33
Comment				

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)	10.00klb	No. Size		Progress	19.0m	Cum. Progress		19.0m		
Type:	PDC	RPM(avg)	50	2	28/32nd"	On Bottom Hrs	3.2h	Cum. On Btm Hrs		3.2h		
Serial No.:	211010	F.Rate	14.00bpm	4	18/32nd"	IADC Drill Hrs	3.0h	Cum IADC Drill Hrs		3.0h		
Bit Model	RSX 616	SPP	1750psi			Total Revs	34	Cum Total Revs		34		
Depth In	1,525.0m	HSI				ROP(avg)	5.94 m/hr	ROP(avg)		5.94 m/hr		
Depth Out		TFA	2.197									
Bit Comment												

BHA # 3

Weight(Wet)	40.00klb	Length	268.4m	Torque(max)	10000ft-lbs	D.C. (1) Ann Velocity	256fpm
Wt Below Jar(Wet)	30.00klb	String	240.00klb	Torque(Off.Btm)	2000ft-lbs	D.C. (2) Ann Velocity	384fpm
		Pick-Up	240.00klb	Torque(On.Btm)	4000ft-lbs	H.W.D.P. Ann Velocity	176fpm
		Slack-Off	240.00klb			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		

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite Bulk	MT	0	35.44	0	132.0
Bentonite Bulk	MT		0	0	38.1
Diesel	m3	0	11.2	0	417.2

Bulk Stocks					
Name	Unit	In	Used	Adjust	Balance
Fresh Water	m3	21	55.4	0	138.0
Drill Water	m3	480	107.9	-42.1	475.9
Cement G	MT	0	0	0	7.7
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	9.50	97	93	1800	9.50	1528.0	20	125	2.00	30	150	3.00	40	190	4.00
3	12P160	6.000	9.50	97	93	1800	9.50										

Casing					
OD (in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	Csg Landing Depth MD (m)	Csg Landing Depth TVD (m)	LOT/FIT (ppg)
30 "	650.30	650.30	604.40	604.40	
13 3/8"	1511.77	1511.77	603.50	603.50	

Personnel On Board		
Company	Pax	Comment
DOGC	44	extra
DOGC	3	
ESS	8	
NEXUS	5	
FUGRO SURVEY LTD (ROV)	3	
DOWELL SCHLUMBERGER	3	
M-1 AUSTRALIA PTY LTD	3	
GEOSERVICES OVERSEAS S.A.	6	Sperry Sun
HALLIBURTON AUSTRALIA PTY LTD - SPERRY SUN	4	
Total	79	

HSE Summary				
Events	Date of last	Days Since	Descr.	Remarks
Abandon Drill	18 Dec 2005	6 Days	Held weekly abandon rig drill	Simulated chemical spill on rig.
Environmental Issue	24 Dec 2005	0 Days	Enviromental drill	
Fire Drill	18 Dec 2005	6 Days	Held weekly fire drill	
JSA	24 Dec 2005	0 Days	Deck = 6, Mech = 0, Drill = 7, Sub Sea =0	
Safety Meeting	18 Dec 2005	6 Days	Weekly safety meetings with all crew members.	
STOP Card	24 Dec 2005	0 Days	Safe = 1, Un-safe = 7	

Shakers, Volumes and Losses Data					
Available	2,098bbl	Losses	173bbl	Equip.	Mesh Size
Active	433.1bbl	Equipment	108bbl	Shaker1	VSM 100 4 x 84
Hole	1,164.9bbl	Dumped	65bbl	Shaker2	VSM 100 4 x 84
Reserve	500bbl			Shaker3	VSM 100 4 x 52
				Shaker4	BEM650 4 x 120

Marine

Weather on 24 Dec 2005								Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (klb)
10.0nm	35kn	248.0deg	1,009.0mbar	15C°	3.0m	248.0deg	3s	1	287.0
Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments			
272.0deg	396.00klb	4,548.00klb	3.0m	225.0deg	8s				
Comments									
						7	353.0		
						8	309.0		
Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks					
Far Grip			On Location waiting to off load deck cargo and drill water	Item	Unit	Used	Quantity		
				Diesel	CuMtr		536		
				Fresh Water	CuMtr		423		
				Drill Water	CuMtr		180		
				Cement G	Mt		80		
				Cement HT (Silica)	Mt		54		
				Barite Bulk	Mt		89		
Transferred 480m3 of drill water to rig. Plan was to take 660m3 but transfer pump failed. Will resume once weather calms and pump is repaired.									
Pacific Wrangler			On location wating for back load	Item	Unit	Used	Quantity		
				Diesel	CuMtr		169.4		
				Fresh Water	CuMtr		45		
				Drill Water	CuMtr		0		
				Cement G	Mt		0		
				Cement HT (Silica)	Mt		0		
				Barite Bulk	Mt		0		
				Bentonite Bulk	Mt		0		