

20 Dec 2005

From: Westman/ Webby
To: J Ah-Cann

DRILLING MORNING REPORT # 9

Culverin 1

Well Data							
Country	Australia	MDBRT	1,525.0m	Cur. Hole Size	17.500in	AFE Cost	\$ 22699889
Field	Gippsland Basin	TVDBRT	1,525.0m	Last Casing OD	30.000in	AFE No.	3433-1001
Drill Co.	DOGC	Progress	89.0m	Shoe TVDBRT	650.9m	Daily Cost	\$ 570223
Rig	OCEAN PATRIOT	Days from spud	4.44	Shoe MDBRT	650.9m	Cum Cost	\$ 9041237
Wtr Dpth(MSL)	585.0m	Days on well	8.35	FIT/LOT:	/	Days Since Last LTI	945
RT-ASL(MSL)	21.5m	Planned TD MD					
RT-ML	606.5m	Planned TD TVDRT					
Current Op @ 0600 340mm casing ran to 1511m. Pumping cement for 340mm casing cement.							
Planned Op Run and cement 340 mm (13 3/8") casing. Run Riser and BOP's.							

Summary of Period 0000 to 2400 Hrs

Drilled 445 mm (17 1/2") hole to 1525.0 mMDRT. Pulled out of hole to rig up and run 340 mm (13 3/8") casing. Commenced running casing.

Operations For Period 0000 Hrs to 2400 Hrs on 20 Dec 2005

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	DA	0000	0830	8.50	1,525.0m	Drill 17 1/2" hole from 1436m to 1525m Take surveys every 3rd stand. @1509m 0.09deg, 0.70 azimuth, 1000-1100 gpm, 3400psi, 4-6000 ftlbs tq, 150-160rpm, String wt 240klbs, 30-35klbs WOB. Sweep hole 85bbls per stand.
IH	P	DIS	0830	1030	2.00	1,525.0m	Take TD survey. @1525m 0.09deg, 0.70 azimuth, Pump 150bbls of Guar Gum hi-vis sweep. Pump 100bbls of Sea Water Pump 840bbls of PHG hi-vis displacement mud, un-weighted. Displace PHG to bottom of drill pipe
IH	P	TO	1030	1300	2.50	1,525.0m	POOH from 1525m to 242m. No hole problems observed. Jet 30" housing on way out of hole. Pipe strap on trip out +0.17m
IH	P	HBHA	1300	1500	2.00	1,525.0m	POOH BHA and rack in derrick. Remove MWD probe and break off bit.
IH	P	RRC	1500	1600	1.00	1,525.0m	Hold JSA for casing operations with all crews and rig up equipment
IH	P	CRN	1600	1730	1.50	1,525.0m	Make up 13 3/8" shoe track and check floats. Baker lock connections. Attach guide ropes
IH	P	CRN	1730	2300	5.50	1,525.0m	Ran 13 3/8" casing to 885m. No hole problems to report.
IH	P	CRN	2300	2400	1.00	1,525.0m	Rig down Tam packer, make up 18 3/4" well head to casing string, rig down FMS and all casing equipment.

Operations For Period 0000 Hrs to 0600 Hrs on 21 Dec 2005

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	CRN	0000	0100	1.00	1,525.0m	Complete making up 18 3/4 well head and Dowell Deep Sea express plug baskets.
IH	P	CRN	0100	0230	1.50	1,525.0m	Ran 13 3/8" casing string on 5" dp to 30" housing. ROV observe landing and latching of Well Head in housing. String weight 350klbs, verify latch with 50k over pull, 400klbs ok. Slack off to landing string weight.
IH	P	CIC	0230	0400	1.50	1,525.0m	Circulate 1.5 x casing volume with sea water. Complete cement job JSA and equipment prep while circulating.
IH	P	CMC	0400	0600	2.00	1,525.0m	(IN PROGRESS) Cement casing: 25bbls S/W-dye, Lead 300bbls 12.5ppg, Tail 209bbls 15.8ppg.

Phase Data to 2400hrs, 20 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

Phase Data to 2400hrs, 20 Dec 2005

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
INTERMEDIATE HOLE(IH)	82.5	17 Dec 2005	20 Dec 2005	200.50	8.354	1,525.0m

WBM Data

Cost Today \$ 1529

Mud Type:	PHG Hi-Vis	API FL:	14.0cc/30min	Cl:	600mg/l	Solids(%vol):	2%	Viscosity	105sec/qt
Sample-From:	Pits	Filter-Cake:	1/32nd"	K+C*1000:		H2O:		PV	14cp
Time:	2200	HTHP-FL:		Hard/Ca:	40mg/l	Oil(%):		YP	30lb/100ft²
Weight:	8.70ppg	HTHP-cake:		MBT:	20	Sand:		Gels 10s	22
Temp:	20C°			PM:		pH:	9	Gels 10m	27
				PF:	0.1	PHPA:		Fann 003	20
								Fann 006	21
								Fann 100	28
								Fann 200	35
								Fann 300	40
								Fann 600	54
Comment		Completed drilling pumping 80bbbls of Hi-vis per stand drilled. At TD swept hole with 150bbbls of guar gum and displaced with 840bbbls of PHG(un-weighted)							

Bit # 2

Bit # 2				Wear	I 1	O1 2	D ER	L A	B 0	G I	O2 NO	R TD
				Bitwear Comments:								
Size ("):		17.500in		IADC# 117		Nozzles		Drilled over last 24 hrs		Calculated over Bit Run		
Mfr:		REED HYCALOG		WOB(avg) 30.00klb		No. Size		Progress 89.0m		Cum. Progress 1,231.0m		
Type:		Rock		RPM(avg) 156		1 16/32nd"		On Bottom Hrs 7.5h		Cum. On Btm Hrs 41.6h		
Serial No.:		B73369		F.Rate 26.00bpm		3 22/32nd"		IADC Drill Hrs 8.5h		Cum IADC Drill Hrs 42.0h		
Bit Model		Titan T-11		SPP 3124psi				Total Revs 227		Cum Total Revs 560		
Depth In		650.9m		HSI				ROP(avg) 11.87 m/hr		ROP(avg) 29.59 m/hr		
Depth Out		1,525.0m		TFA 1.31								
Bit Comment												

BHA # 2

Weight(Wet)	65.00klb	Length	242.6m	Torque(max)	8000ft-lbs	D.C. (1) Ann Velocity
Wt Below Jar(Wet)	48.00klb	String	240.00klb	Torque(Off.Btm)	1000ft-lbs	D.C. (2) Ann Velocity
		Pick-Up	240.00klb	Torque(On.Btm)	4000ft-lbs	H.W.D.P. Ann Velocity
		Slack-Off	240.00klb			D.P. Ann Velocity

BHA Run Description Stabilized rotary assembly. MWD.

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.60m	17.500in		B73369	Bit#1, re-run 1
Near Bit Stab	2.65m	17.500in	3.000in	SBD2376	
Pony DC	3.06m	9.625in	3.000in	177-472	
Stab	2.51m	17.250in	3.000in	SBD2380	
MWD Tools	9.87m	9.500in	2.375in	209351	
Stab	2.51m	17.250in	3.000in	SBD2379	
9.5in DC	27.18m	9.500in	3.000in		
X/O	1.16m	9.500in	3.000in	MSO1930-0	
8in DC	26.63m	8.000in	3.000in		
Drilling Jars	9.31m	8.000in	3.062in	11150D	
8in DC	17.71m	8.000in	3.000in		
X/O	1.16m	8.500in	2.875in	MSO1930-2	
5in HWDP	138.22m	5.000in	3.000in		

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
1486.00	0.2	21.2						
1509.00	0.1	0.7						
1525.00	0.1	0.7						

Bulk Stocks					
Name	Unit	In	Used	Adjust	Balance
Barite Bulk	MT	0		0	167.4
Bentonite Bulk	MT		3.99	0	35.3
Diesel	m3	300	17.5	0	461.1
Fresh Water	m3	29	21.3	0	163.7
Drill Water	m3		114.3	0	228.2
Cement G	MT	0	0	0	88.2
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	12P160	6.500	8.60	97	100	2450	12.00										
2	12P160	6.500	8.60	97	100	2450	12.00										

Casing					
OD (in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	Csg Landing Depth MD (m)	Csg Landing Depth TVD (m)	LOT/FIT (ppg)
30 "	650.00	650.00		650.00	
13 3/8"	1511.14	1511.14	604.00		

Personnel On Board		
Company	Pax	Comment
DOGC	45	
DOGC	3	extra
ESS	8	
NEXUS	5	
FUGRO SURVEY LTD (ROV)	6	
DOWELL SCHLUMBERGER	3	
CAMERON AUSTRALIA PTY LTD	1	
M-1 AUSTRALIA PTY LTD	3	
GEO SERVICES OVERSEAS S.A.	5	
HALLIBURTON AUSTRALIA PTY LTD - SPERRY SUN	2	Sperry Sun
WEATHERFORD AUSTRALIA PTY LTD	4	
Total	85	

HSE Summary				
Events	Date of last	Days Since	Descr.	Remarks
Abandon Drill	18 Dec 2005	2 Days	Held weekly abandon rig drill	Load life boats 1 and 2 with 10 people and discuss life boat equipment and launching procedures.
Fire Drill	18 Dec 2005	2 Days	Held weekly fire drill	
JSA	20 Dec 2005	0 Days	Deck = 12, Mech = 1, Drill = 7, Sub Sea =0, marine =1	Discussion on man riding operations. Recent 3rd party finger amputation and basic amputation first aid discussed. GEMS work basket policies. Fire and abandonment drills
Safety Meeting	18 Dec 2005	2 Days	Weekly safety meetings with all crew members.	
STOP Card	20 Dec 2005	0 Days	Safe = 1, Un-safe = 3	

Shakers, Volumes and Losses Data			
Available	597bbl	Losses	1,769bbl
Reserve	597bbl	Sweeps	1,769bbl

Marine

Weather on 20 Dec 2005								Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (klb)
10.0nm	12kn	225.0deg	1,016.0mbar	17C°	0.5m	225.0deg	2s	1	287.0
Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments			
272.0deg		4,778.00klb	3.0m	225.0deg	7s				
Comments									
								8	315.0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks			
Far Grip			Town	Item	Unit	Used	Quantity
				Diesel	CuMtr		230
				Fresh Water	CuMtr		307
				Drill Water	CuMtr		40
				Cement G	Mt		80
				Cement HT (Silica)	Mt		54
				Barite Bulk	Mt		89
Pacific Wrangler			On location with Riser and fuel.	Item	Unit	Used	Quantity
				Diesel	CuMtr		363.6
				Fresh Water	CuMtr		160
				Drill Water	CuMtr		
				Cement G	Mt		
				Cement HT (Silica)	Mt		
				Barite Bulk	Mt		
				Bentonite Bulk	Mt		5

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	0925 / 0933	11 / 6	