

16 Dec 2005

From: Westman/ Webby
To: J Ah-Cann

DRILLING MORNING REPORT # 5

Culverin 1

Well Data							
Country	Australia	MDBRT	650.0m	Cur. Hole Size	36.000in	AFE Cost	\$ 22699889
Field	Gippsland Basin	TVDBRT	650.0m	Last Casing OD		AFE No.	3433-1001
Drill Co.	DOGC	Progress	43.0m	Shoe TVDBRT		Daily Cost	\$ 585930
Rig	OCEAN PATRIOT	Days from spud	0.44	Shoe MDBRT		Cum Cost	\$ 6850042
Wtr Dpth(MSL)	585.0m	Days on well	4.35	FIT/LOT:	/	Days Since Last LTI	934
RT-ASL(MSL)	21.5m	Planned TD MD					
RT-ML	606.5m	Planned TD TVDRT					
Current Op @ 0600							
Waiting on 30" cement surface samples to set. PGB heading 273deg, 2 x PGB bullseyes reading zero. Cement in place at 0530hrs, floats holding good.							
Planned Op							
Run and Cement 30" casing, POOH. Lay out 36" BHA. Make up 18 3/4" C.A.R.T, Pick up required Drill pipe, pick up 17 1/2" section BHA.							

Summary of Period 0000 to 2400 Hrs							
Pick up 93 jnts of 5" dp. Make up 30" C.A.R.T. make up 36" BHA and RIH to 607m. Spud well and drill 36" hole from 607m to 650m. Circulate hole clean and displace. Drop Totco survey(0.5deg @ 643m). POOH. Rig up and ran 30" casing/PGB. Install guide lines.							

Operations For Period 0000 Hrs to 2400 Hrs on 16 Dec 2005

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
SH	P	PUP	0000	0300	3.00	0.0m	Pick up 20 stands DP. 580m.
SH	P	OA	0300	0400	1.00	0.0m	Rack back 20 stands DP.
SH	P	PUP	0400	0600	2.00	0.0m	Pick up DP. 920m.
SH	P	HBHA	0600	0730	1.50	0.0m	Picked up 18 jnts of HWDP and racked in derrick.
SH	P	HT	0730	0930	2.00	0.0m	Made up and racked in derrick, 30" C.A.R.T. BOP hang off tool, 30" cementing stand.
SH	P	HBHA	0930	1200	2.50	0.0m	Make up 36" drilling BHA and ran in hole to 192m.
SH	P	TI	1200	1330	1.50	0.0m	Ran BHA in hole on DP to 607mRT.
SH	P	DA	1330	1600	2.50	650.0m	Spud well and drill 36" hole from 607m to 650m. Pumped 75bbl sweep at mid stand and stand down, spotted 100bbls of hi-vis around BHA prior to connection.Anderdrift tool not working.
SH	P	CHC	1600	1630	0.50	650.0m	Displaced hole with 170bbls of pre-hydrated Bentonite. Dropped Totco single shot survey.
SH	P	TO	1630	1730	1.00	650.0m	Pulled out of hole from 650m to 193m. No hole problems or overpull observed.
SH	P	HBHA	1730	1830	1.00	650.0m	Pulled out of hole BHA from 193m to surface racking all BHA in derrick. Recover survey 1/2°.
SC	P	RRC	1830	1900	0.50	650.0m	Held Pre-casing JSA and rigged up for 30" casing.
SC	P	CRN	1900	2100	2.00	650.0m	Ran 30" x 20" csg x/o joint, 2 x intermediate joints and housing joint.
SC	P	CRN	2100	2300	2.00	650.0m	Ran 3 x dp stinger, made up 30" C.A.R.T to 30" housing joint and landed out in PGB. Install guide lines.
SC	TP (VE)	RO	2300	2400	1.00	650.0m	Had rig welder manufacture 2 x "C" plates due to #1 & #2 guide line spears releasing and not latching correctly.

Operations For Period 0000 Hrs to 0600 Hrs on 17 Dec 2005

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
SC	P	CRN	0000	0200	2.00	650.0m	Ran 30"casing & PGB on drill pipe.
SC	TP (OTH)	SKR	0200	0330	1.50	650.0m	Stabbed casing in open hole with ROV assistance and by moving the rig 4m stbd aft.
SC	P	CRN	0330	0400	0.50	650.0m	Landed out casing with 5klbs of wt down. Circulate to ensure no fill. 2.1m stcik up, 2 x zero bullseye readings. Heading 273 deg. Circulate casing volume while holding JSA for cement job.
SC	P	CMC	0400	0530	1.50	650.0m	Pumped 20bbls of S/W-Dye, mix and pump 200bbls of 15.8ppg cement slurry, displace with 64bbls of S/W. Check floats holding-ok.
SC	P	WOC	0530	0600	0.50	650.0m	(IN PROGRESS) Waiting on surface cement samples to harden.

Phase Data to 2400hrs, 16 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)	28.5	15 Dec 2005	16 Dec 2005	99.00	4.125	650.0m
SURFACE CASING(SC)	5.5	16 Dec 2005	16 Dec 2005	104.50	4.354	650.0m

WBM Data

Cost Today \$ 7964

Mud Type:	PHB spud	API FL:	Cl:	Solids(%vol):	Viscosity	120sec/qt
Sample-From:	Active pit	Filter-Cake:	K+C*1000:	H2O:	PV	
Time:	1600	HTHP-FL:	Hard/Ca:	Oil(%):	YP	
Weight:	8.80ppg	HTHP-cake:	MBT:	Sand:	Gels 10s	
Temp:			PM:	pH:	Gels 10m	
			PF:	PHPA:	Fann 003	
					Fann 006	
					Fann 100	
					Fann 200	
					Fann 300	
					Fann 600	
Comment						

Bit # 1

Bit # 1				Wear	I	O1	D	L	B	G	O2	R							
				0	0	NO	A	0	I	NO	TD								
Bitwear Comments: Bit has no signs of wear or damage.																			
Size ("):		17.500in		IADC#		117		Nozzles		Drilled over last 24 hrs		Calculated over Bit Run							
Mfr:		REED HYCALOG		WOB(avg)		3.80klb		No.		Size		Progress		43.0m		Cum. Progress		43.0m	
Type:		Rock		RPM(avg)		110		1		16/32nd"		On Bottom Hrs		1.5h		Cum. On Btm Hrs		1.5h	
Serial No.:		B73369		F.Rate		10.30bpm		3		22/32nd"		IADC Drill Hrs		2.5h		Cum IADC Drill Hrs		2.5h	
Bit Model		Titan T-11C		SPP		1888psi						Total Revs		Cum Total Revs				0	
Depth In		607.0m		HSI								ROP(avg)		28.67 m/hr		ROP(avg)		28.67 m/hr	
Depth Out		650.0m		TFA		1.31													
Bit Comment																			

BHA # 1

Weight(Wet)	Length	192.6m	Torque(max)	D.C. (1) Ann Velocity
Wt Below Jar(Wet)	String		Torque(Off.Btm)	D.C. (2) Ann Velocity
	Pick-Up		Torque(On.Btm)	H.W.D.P. Ann Velocity
	Slack-Off			D.P. Ann Velocity

BHA Run Description

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.60m	17.500in		B73369	
Hole Opener	2.42m	36.000in	3.062in	710163	
Float Sub	0.92m	9.435in	3.062in	186-0029	
Anderdrift	3.09m	9.500in	3.000in	ADB 996	
9.5in DC	27.18m	9.500in	3.000in		
X/O	1.16m	9.500in	2.812in	MSO 193-01	
8in DC	17.74m	8.000in	2.812in		
X/O	1.16m	8.500in	2.812in	MSO 1930-2	
5in HWDP	138.36m	5.000in	3.000in		

Survey

MD	Incl	Azim	TVD	Vsec	N/-S	E/-W	DLS	Tool Type
(m)	(deg)	(deg)	(m)	(deg)	(m)	(m)	(deg/30m)	
643.00	0.5							

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	
Barite Bulk	MT	80.63		74.99	167.4	
Bentonite Bulk	MT		22.89	35.43	59.5	
Diesel	m3	0	10.8	0	221.9	
Fresh Water	m3	31	24.9	0	153.5	
Drill Water	m3	583	350.1	17.7	336.5	
Cement G	MT	63.7		-10.74	125.6	
Cement HT (Silica)	MT		1.83	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	A1700PT	6.500	8.70	97	100	1800	11.90											
3	A1700PT	6.500	8.70	97	100	1800	11.90											

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 "	650.90	650.90		650.90		

Personnel On Board		
Company	Pax	Comment
DOGC	45	
DOGC	3	extra
ESS	8	
DOGC	1	other
NEXUS	3	
FUGRO SURVEY LTD (ROV)	6	
DOWELL SCHLUMBERGER	3	
CAMERON AUSTRALIA PTY LTD	1	
M-1 AUSTRALIA PTY LTD	2	
FUGRO SURVEY LTD (RIG POSITIONING)	2	
GEOSERVICES OVERSEAS S.A.	2	
Total	76	

HSE Summary				
Events	Date of last	Days Since	Descr.	Remarks
JSA	16 Dec 2005	0 Days	Deck = 12, Mech = 1, Drill = 3, Sub Sea =2	
STOP Card	16 Dec 2005	0 Days	Safe = 6, Un-safe = 5	

Marine							
Weather on 16 Dec 2005							
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	4kn	225.0deg	1,012.0mbar	19C°	0.1m	225.0deg	2s
Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments	
272.0deg		4,862.00klb	2.0m	225.0deg	6s		
Comments							

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks			
Far Grip			on standby	Item	Unit	Used	Quantity
				Diesel	CuMtr		254
				Fresh Water	CuMtr		313
				Drill Water	CuMtr		40

				Item	Unit	Used	Quantity
				Cement G	Mt		80
				Cement HT (Silica)	Mt		54
				Barite Bulk	Mt		89
Pacific Wrangler			En-route to town, ETA 0630 17/12/05	Item	Unit	Used	Quantity
				Diesel	CuMtr		178.7
				Fresh Water	CuMtr		116
				Drill Water	CuMtr		
				Cement G	Mt		
				Cement HT (Silica)	Mt		
				Barite Bulk	Mt		
				Bentonite Bulk	Mt		

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1313 / 1328	8 / 10	First chopper had mechanical problems and had to turn back. Loan chopper from woodside completed crew change.