

CRC-1

Date :	07 Mar 2007	Well Site Manager :	Kevin Murphy	Rig Manager :	Agus Nugroho
Report Number	21	Drilling Supervisor :	Kevin Murphy / Brian Assels	Drilling Company :	Century Drilling Ltd
Easting	657913	Northing	5733761	Geologist :	Dave Horner

Well Details

Country:	Australia	Current Hole Size:	6.75in	Casing O.D.:	7.625in	Planned TD:	2250.0m
Field:	Otway (Naylor)	Measured Depth:	2075.5m	Casing MD:	512.0m	Last BOP Test:	19 Feb 2007
Rig:	CDL Rig 11	True Vertical Depth:	2075.5m	Casing TVD:	512.0m	FIT/LOT:	/ 13.30ppg
RT - AMSL:	50.00m	24 Hr Progress:	24.5m	TOL MD:		Last LTI:	04 Jan 2006
RT - GL:	5.20m	Days From Spud:	20.54	Liner MD:		LTI Free Days:	287
Datum:	GDA 94	Days On Well:	33.54	Liner TVD:			

Current Ops @ 0600: RIH at 1575m.
 Planned Operations: Drill 6-3/4" hole to core point #7.

Summary of Period 0000 to 2400 Hrs

RIH with coring assembly and cut core #6. POH. Recover core 23.53m (96%). RIH drilling BHA.

HSE Summary

Event (# Of)	Date of last	Days Since	Short Description
Alcohol & drug screening (2)	07 Mar 2007	0 Days	Personnel blow into alcoholizer
BOP Drill (1)	07 Mar 2007	0 Days	hold drill on trip out while inside shoe: 23 seconds to secure well - good crew response.
Hazard Observation (2)	07 Mar 2007	0 Days	No end chocks in 2nd tier of casing on pipe racks. HP pump trailer lift up doors require legs to be pinned to socket to prevent dislodgement.
Inspection (2)	07 Mar 2007	0 Days	Visually inspect d/line, d/man, brakes, koomey, BOP stack and Koomey pressures.
Permit To Work (1)	07 Mar 2007	0 Days	Cut core using electrical saw.
Permit To Work (1)	07 Mar 2007	0 Days	Pump out core using pressure pump.
Pre-Tour Meetings (2)	07 Mar 2007	0 Days	Correct use of pipe spinner, BOP drills.

Operations For Period 0000 Hrs to 2400 Hrs on 07 Mar 2007

Phse	Cls	Op	From	To	Hrs	Depth	Activity Description
PH1	P	TO	0000	0030	0.50	2051.0m	Con't POOH with core #5.
PH1	P	COR	0030	0130	1.00	2051.0m	BO & LO core barrel. Recover 6.59m core from 2044.41m - 2051m. (37%).
PH1	P	WO	0130	0200	0.50	2051.0m	Clean and clear work floor while WOO.
PH1	P	HBHA	0200	0330	1.50	2051.0m	MU core bit and 80ft core barrel BHA #11 (25.99m LOA).
PH1	P	TI	0330	0900	5.50	2051.0m	RIH core barrel. Break circ at 1500m. Con't RIH to 2031m.
PH1	P	RW	0900	1000	1.00	2051.0m	PU kelly, wash f/ 2031m to 2051m.
PH1	P	COR	1000	1030	0.50	2051.0m	Circulate and drop ball.
PH1	P	COR	1030	1630	6.00	2075.5m	Cut core #6 f/ 2051 - 2075.5 m.
PH1	P	TO	1630	2130	5.00	2075.5m	Pump slug, flow check, rack kelly and POH f/ 2075.5m. Flow check at shoe and BHA. Hole good on trip out.
PH1	P	COR	2130	2330	2.00	2075.5m	Recover and LD core. Recover 23.53m (96%) from 2051m - 2075.50m. Stand 18m empty barrel in derrick.
PH1	P	HBHA	2330	2400	0.50	2075.5m	MU PDC drill bit #4RR1 on drilling BHA #11.

Operations For Period 0000 Hrs to 0600 Hrs on 08 Mar 2007

Phse	Cls	Op	From	To	Hrs	Depth	Activity Description
PH1	P	TI	0000	0230	2.50	2075.5m	Continue RIH W/- Drilling BHA To 490m
PH1	P	RS	0230	0300	0.50	2075.5m	Rig Service
PH1	P	SC	0300	0330	0.50	2075.5m	Slip 38' Drill Line
PH1	P	TI	0330	0600	2.50	2075.5m	Continue RIH Break circ @ 1500m

WBM Data									
Daily Chemical Costs: \$ 766.00				Cost To Date: \$ 53522.00			Engineer : Peter N ARONETZ		
Mud Type:	Water Based	Flowline Temp:	40.2C°	pH:	9.8	Low Gravity Solids:	6.40%	Gels 10s	3
Description:	KCl / PHPA / POLYMER	Nitrates:	0mg/l	PM:	0.55	High Gravity Solids:	0.00%	Gels 10m	4
Sample From:	Past Shale Shakers	Sulphites:	200mg/l	PF:	0.62	Solids (corrected):	6.40%	Fann 003	3
		API FL:	6.1cm³/30min	MF:	3.55	H2O:	93.6%	Fann 006	4
Time:	16:30	API Cake:	1/32nd"	CI:	27500mg/l	Oil:	0.0%	Fann 100	20
Weight:	9.45ppg	PV	15cp	Hard/Ca:	40mg/l	Sand:	0.5 %	Fann 200	28
ECD TD:	9.75ppg	YP	19lb/100ft²	MBT:	6.00	Barite:	0.00lb/bbl	Fann 300	34
ECD Shoe:				KCl Equiv:	5.0%	CaCO3 Added:	21.9ppb	Fann 600	49
Viscosity	54sec/qt			PHPA Added:	1.44ppb				
				Fluoresceine:	4.425ppm				

Comment: Maintaining SFC volume and fluid properties.

Shakers, Volumes and Losses Data							
Available	841bbl	Losses	70bbl	Equip.	Descr.	Mesh Size	Hours
Active	518bbl	Downhole	28bbl	1	Lin. Motion SHAKER	1 x 84 & 2 x 50	18
Hole	306bbl	Shakers & Equip.	20bbl	2	Lin. Motion SHAKER	1 x 84 & 2 x 50	18
Slug		Dumped	5bbl	3	De-Sander	2 x 8" Cones	10
				4	De-Silter	12 x 4" Cones	10
Reserve	17bbl	Centrifuges					
		Desander	4bbl				
		De-Silter	13bbl				
Built	50bbl						

Bit Data											
Bit # 3RR4		Wear	I	O1	D	L	B	G	O2 NO	R	
Size ("):	6.750	IADC#	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	Corpro Systems Ltd	WOB(avg)	klb	4 x 12/(32nd")		Progress	m	Cum. Progress		18.0m	
Type:	Core	RPM(avg)				On Bottom Hrs	NaN	Cum. On Btm Hrs		24.00	
Serial No.:	083719	RPM (DH)(avg)				IADC Drill Hrs	NaN	Cum IADC Drill Hrs		26.50	
Bit Model	MCP662	F.Rate	gpm			Total Revs		Cum Total Revs		65800	
Depth In	2033.0m	SPP	psi			OB-ROP(avg)		Cum. OB-ROP(avg)		0.75m/hr	
Depth Out	2051.0m	TFA	0	HSI	HSI						
Bit Wear Comment		Reason pulled: Full core barrel cut.									
Bit Run Comment		Cut core #5 in Flaxmans Formation. Cut 18m, recover 6.59 (37%).									

Bit Data											
Bit # 4RR1		Wear	I	O1	D	L	B	G	O2 NO	R	
Size ("):	6.750	IADC#	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	Stealth Tools	WOB(avg)	klb	4 x 12/(32nd")		Progress	m	Cum. Progress		0.0m	
Type:	PDC	RPM(avg)				On Bottom Hrs	NaN	Cum. On Btm Hrs		0.00	
Serial No.:	6904	RPM (DH)(avg)				IADC Drill Hrs	NaN	Cum IADC Drill Hrs		0.00	
Bit Model	M46H4	F.Rate	gpm			Total Revs		Cum Total Revs		0	
Depth In	2075.5m	SPP	psi			OB-ROP(avg)		Cum. OB-ROP(avg)		0.00m/hr	
Depth Out		TFA	0.442	HSI	HSI						

Bit Data											
Bit # 3RR5		Wear	I	O1	D	L	B	G	O2 NO	R	
Size ("):	6.750	IADC#	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	Corpro Systems Ltd	WOB(avg)	10.0klb	4 x 12/(32nd")		Progress	24.5m	Cum. Progress		24.5m	
Type:	Core	RPM(avg)	80			On Bottom Hrs	5.00	Cum. On Btm Hrs		5.00	
Serial No.:	083719	RPM (DH)(avg)	80			IADC Drill Hrs	6.00	Cum IADC Drill Hrs		6.00	
Bit Model	MCP662	F.Rate	120.0gpm			Total Revs	24200	Cum Total Revs		24200	
Depth In	2051.0m	SPP	550.0psi			OB-ROP(avg)	4.90m/hr	Cum. OB-ROP(avg)		4.90m/hr	
Depth Out	2075.5m	TFA	0	HSI	HSI						
Bit Wear Comment		Reason pulled: Full core barrel cut.									
Bit Run Comment		Cut core #5 in Flaxman's Formation/Uppper Waarre C. Cut 24.5m, recover 23.53m (96%).									

BHA Data							
BHA # 10							
Weight(Wet)	20.0klb	Length	272.7m	Torque(max)	7000.0ft-lbs	D.C. (1) Ann Velocity	0fpm
Wt Below Jar(Wet)	25.0klb	String	118.0klb	Torque(Off.Btm)	1000.0ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up	119.0klb	Torque(On.Btm)	5000.0ft-lbs	H.W.D.P. Ann Velocity	0fpm
		Slack-Off	117.0klb	Jar Hours	6	D.P. Ann Velocity	0fpm
BHA Run Comment		Core #5 in Flaxman's Formation/Upper Waarre C.					

Equipment	Length	OD	ID	Serial #	Hours	Comment
Core Bit	1 x 0.26m	6.75in	2.56in	083719	35	4 x 6.75" fixed stabilizers
Core Barrel	1 x 19.63m	6.75in			36	
NMDC	1 x 9.19m	4.75in	2.31in		8	
4.75" DC	16 x 9.43m	4.75in	2.88in		208	
Drilling Jars	1 x 9.37m	4.75in	2.88in	380-47763-03	208	
4.75" DC	3 x 9.50m	4.75in	2.88in		208	
3 1/2" HWDP	6 x 9.14m	3.50in	2.31in		228	
Total Length:	272.67m					

BHA Data

BHA # 11

Weight(Wet)	Length	260.5m	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		Jar Hours	153
				D.P. Ann Velocity

BHA Run Comment Units for torque not ft-lbs

Equipment	Length	OD	ID	Serial #	Hours	Comment
Bit	1 x 0.18m	6.75in		6904		Tasman
Near Bit Stab	1 x 1.51m	6.75in	2.43in	5475-1		
Pony DC	1 x 2.90m	4.75in	2.25in	502-A32		
String Stabiliser	1 x 1.54m	6.75in	2.06in	5415-2		
NMDC	1 x 9.19m	4.75in	2.31in			
4.75" DC	1 x 9.49m	4.75in	2.31in			
String Stabiliser	1 x 1.54m	6.75in	2.00in	475-3		
4.75" DC	15 x 9.43m	4.75in	2.31in			
Drilling Jars	1 x 9.37m	4.75in	2.31in	380-47763-03		
4 3/4 DC	3 x 9.50m	4.75in	2.31in			
3 1/2" HWDP	6 x 9.14m	3.50in	2.12in			
Total Length:	260.51m					

Survey

MD (m)	Incl. (deg)	Corr. Az (deg)	TVD (m)	'V' Sect (m)	Dogleg (deg/30m)	N/S (m)	E/W (m)	Tool Type
1691.00	2.00	135.00	1690.7	23.00	0.18	-23.00	14.60	Hofco single shot
1808.00	2.00	139.00	1807.6	25.98	0.04	-25.98	17.38	Hofco single shot
1896.00	2.00	137.00	1895.5	28.27	0.02	-28.27	19.44	Hofco single shot
2022.00	0.75	86.00	2021.5	29.82	0.39	-29.82	21.76	Hofco single shot

Summary

Company	Pax On
Upstream Petroleum	4
Century Drilling Ltd	25
BHI	2
Corpro Systems Ltd	2
RMN Drilling Fluids	1
Total on Rig	34

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	
AMC Biocide G	25L can	0	1	0	6.0	
AMC Defoamer	25L can	0	0	0	12.0	
AMC PAC-R	25kg sack	0	0	0	69.0	
AMC PHPA	25kg sack	0	1	0	43.0	
AUS-BEN	25kg sack	0	0	0	38.0	
AUS-DEX	25kg sack	0	0	0	0.0	
AUS-GEL	25kg sack	0	0	0	168.0	
Baryte	25kg sack	0	0	0	686.0	
CaCl	25kg sack	0	0	0	2.0	
Calcium Carbonate 40µ	25 kg sacks	0	24	0	879.0	
Caustic Soda	25kg pail	0	2	0	33.0	
Citric Acid	25kg sack	0	0	0	34.0	
Cement - Class A	40kg sack	0	0	0	0.0	
Fluoresceine (5 kg)	5 kg	0	0	0	2.0	
Fluoresceine (1 pint)	1 pint	0	0	0	0.0	
Kwik-seal C	40lb sack	0	0	0	30.0	
Kwik-seal F	40lb sack	0	0	0	32.0	
Kwik-seal M	40lb sack	0	0	0	32.0	
Lime	20kg sack	0	0	0	8.0	
KCl	25kg sack	0	0	0	492.0	
Rod-free 205L	205L drum	0	0	0	1.0	
Rod-free 25L	25L can	0	0	0	0.0	
NaCl	25kg sack	0	0	0	0.0	
SAPP	25kg sack	0	0	0	30.0	
Soda Ash	25kg sack	0	0	0	44.0	
Sodium Sulfite	25kg sack	0	0	0	37.0	
Xanthan Gum	25kg sack	0	0	0	25.0	
Xtra-sweep	12lb box	0	0	0	5.0	
Diesel fuel		0	1400	0	17,400.0	

Pumps													
Pump Data - Last 24 Hrs								Slow Pump Data					
No.	Type	Liner (in)	MW (ppg)	Eff (%)	SPM	SPP (psi)	Flow (gpm)	Depth (m)	Ck. Line (psi)	SPM		SPP (psi)	Flow (gpm)
1	GD PZ-7	5.50	9.40	97	55	550.00	120.00	1918.0		1.	70	460.00	
										2.	100	820.00	
2	GD PZ-7	5.50	9.50	97						1.			
										2.			
3	GD PZ-7	5.51	9.50	97				1918.0		1.	70	460.00	
										2.	100	820.00	