

Daily Operations - A4Well: **COBIA F27**

Wellbore Reg. Name: CBA F27

Days (orig)

Planned

Actual (Cum)

MD/TVD

Cost (w/suppl)

32.75	17.27
3,983.00/ 2,459.83	3,983.00/
14,928,760	8,032,851

Esso Australia Pty. Ltd.
ExxonMobil Use OnlyUnit Set: Mixed
Reference Elev: R175
Currency: AUDReport No: 18 Progress: 182.00
Phase: Drilling, Drilling, Drill 9-7/8" production hole

Page: 1 of 5

Rpt. Period: 5/24/2009 05:00 to 5/25/2009 05:00

Well Information

Country	Territory/State	Field Name	Lease	Operating Facility	Slot / Conductor
Australia	Victoria	Fortescue		Cba	27
Operator		Drilling Purpose	Regulatory Well ID	Local Latitude (DMS)	Local Longitude (DMS)
Esso Australia Pty. Ltd.		Development Infill		38° 26' 57.469" S	148° 18' 32.9" E
Original KB Elevation (m)	Ground Elevation (m)	KB-Ground Distance (m)	Working Elevation (m)	Water Depth (m)	Well Spud Date/Time
40.99			40.99	79.00	

Job Information

Primary Job Type	Job Start Date/Time	Job End Date/Time	Client	Working Interest (%)	Job Spud Date/Time
Drilling and Completion	5/7/2009 22:00		EMPC	50.00	
Stewarding Company	Stewarding Team		Primary Wellbore Affected		Orig DCI
EMDC Drilling	Australia		COBIA F27		Orig WCI
AFE or Job Number	Appropriation Type	Currency	Exchange Rate	Ttl Orig AFE	Tot AFE (w/Spp)
609/09008.1.01	Capital	AUD	0.67	14,928,760	14,928,760

Daily Operations Information

Rig (Names)	Cum % NPT (%)	Days From Spud	Days Ahead/Behind	Daily Cost Total
Nabors - Rig 175	6.94			445,660
Daily Personnel Count	Daily Personnel (hrs)	Days Since Hurt	Days Since RI	Days Since LTI
61.0	732.00	6.00	6.00	346.00
				Drill Time (hrs)
				17.70
				Average ROP (m/hr)
				10.3

Performance Limiter	Mitigation Attempts/Results
Activity at Report Time	Next Activity
Pump and rotate OOH at 2815m w/ 9-7/8" BHA	Continue to pump and rotate OOH from 2815m w/ 9-7/8" BHA

Management Summary

No accidents, incidents or environmental spills. PTSMs and JSAs held as required.

Drill 9-7/8" Production hole w/RSS Xceed assembly from 3801m to 3983m. Last survey 5.35m left, 1.60m above. Circulate 3xBU from 3983m to 3909m. Lost rig power due to emergency fire and gas batteries not operable. Restart generators and TDS. Pump and rotate OOH from 3909m to 2815m at 8-10mins/stand.

Remarks

PTSM - 05:45 hrs: Smart Cards, JSA's, Stepback 5x5's, Procedures and Permits as Required, Well Control, Check BOP Line-Ups, Mixing Chemicals, Check All Pit Alarms, Service Far Supplier (09:00-12:30), Service Kari-Ann (12:00-12:15)

PTSM - 17:45 hrs: Smart Cards, JSA's, Stepback 5x5's, Procedures and Permits as Required, Well Control, Check Pit Alarms, Correct Hole Displacement, Working w/ OBM, PPE & Barrier Cream, Slip Hazards, Working w/ Crane, Tag Lines.

- Attend Daily Platform Operations Meeting.
- Held Daily Drilling Operations Meetings.
- Last Weekly Safety Meeting: 18th May and 19th May 2009.
- Last Ops Supt Inspection: 23rd May 2009.
- Next BOP test: 30th May, 2009.
- Next BCFT test: 30th May, 2009.
- Last Accumulator Pump Capacity Test: 16th May 2009
- Last Platform Fire Drill: 24th May 2009.
- Last Deluge function: 10th April, 2008.

DP Rotating hours today : 17.7 hrs
 DP Cumulative rotating hrs: 514.3 hrs
 HWDP Rotating hours today : 17.7 hrs
 HWDP Cumulative rotating hrs: 109.9 hrs

Wellbore	Average Background Gas	Average Connection Gas	Average Trip Gas	Average Drilling Gas	Maximum H2S (ppm)
COBIA F27	23				
Time Log (hrs)	Last Casing String	Next Casing String	Formation Description		
24.00	10-3/4	7"			

Daily Operations - A4

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Time Log

Start Time/Ti...	Elapsed Time (hrs)	End MD (mR175)	Category	NPT Ref #	Comments
05:00	4.50	3,901.00	DRLG		<p>Drill 9-7/8" production hole w/RSS Xceed assembly from 3801m 3901m.</p> <p>Connection procedure: Pump and rotate 1 single off btm and circulate 3 min with 700 gpm and 80 rpm. Shut down rotary and record P/U and S/O wt. with 700 gpm. Make connection if P/U and S/O are not diverging. If P/U and S/O are diverging continue to circulate and clean hole.</p> <p>Survey: 3890.00mMD, Inclination: 59.18°, Azimuth: 354.57°.</p> <p>Drilling parameters: WOB= 9-40K, AVG WOB= 25K, RPM= 100-126, RPM AVG= 119, TRQ= 9726-19148 ft-lbs, AVG TRQ= 14934 ft-lbs, SPP= 3701 psi, GPM= 675, RTWT= 230k, PUWT= 331k, SOWT= 175k, MW= 11.8ppg, ECD RANGE= 13.24-13.28ppg, ECD AVG= 13.25ppg, AVG ROP= 34.5m/hr, MSE= 14-39K, MSE AVG= 26K, VIBES: LAT max= 2.50g, VIBES: X max= 0.25g, SHOCK = 1 (ARC tool), 3 (ADN tool), STICK/SLIP = low, AXIAL= low, LATERAL= medium.</p> <p>Cuttings: 40% < 0.5mm, 30% 0.5 - 2.0mm, 30% 2.0-10.0mm. 100% fresh cuttings generated by bit. Geoservices Cuttings Flow Meter system indicates 78.1% recovery for last 100m. 89.0% Cumulative Recovery</p> <p>ROP limiter: controlled drilling at <50m/hr due to logging requirements</p>
09:30	3.50	3,983.00	DRLG		<p>Drill 9-7/8" production hole w/RSS Xceed assembly from 3901m to 3983m.</p> <p>Survey: 3963.47mMD, Inclination: 59.03°, Azimuth: 3555.44°.</p> <p>Drilling parameters: WOB= 19-36K, AVG WOB= 28K, RPM= 88-122, RPM AVG= 105, TRQ= 12014-17831 ft-lbs, AVG TRQ= 15303 ft-lbs, SPP= 3744 psi, GPM= 676, RTWT= 236k, PUWT= 340k, SOWT= 170k, MW= 11.8ppg, ECD RANGE= 13.22-13.25ppg, ECD AVG= 13.23ppg, AVG ROP= 30.0m/hr, MSE= 16-45K, MSE AVG= 27K, VIBES: LAT max= 1.50g, VIBES: X max= 0.25g, SHOCK = 0, STICK/SLIP = medium, AXIAL= low, LATERAL= medium.</p> <p>Cuttings: 50% < 0.5mm, 30% 0.5 - 2.0mm, 20% 2.0-10.0mm. 100% fresh cuttings generated by bit. Geoservices Cuttings Flow Meter system indicates 76.6% recovery for last 100m. 88.6% Cumulative Recovery</p> <p>ROP limiter: controlled drilling at <50m/hr due to logging requirements. Total Depth observed at 3983mMD 2465.75mTVD, last survey 5.35m left, 1.60m above.</p>
13:00	3.75	3,983.00	DRLG		<p>Circulate 3xBU while pumping and rotating OOH from 3983m to 3909m at 650gpm and 120rpm, racking back 1 stand/BU. Weekly fire alarm drill at 16:30.</p>
16:45	0.50	3,983.00	RIG		<p>Lost rig power due to emergency fire and gas batteries not operable. Restart generators and TDS.</p>
17:15	11.75	3,983.00	DRLG		<p>Pump and rotate OOH from 3909m to 2815m at 8-10mins/stand with 650gpm and 120rpm.</p>

Phase Time and Cost Summary - Shows original AFE time and cost only - no supplement

Phase	Cum Actual (days)	Phase AFE (days)	Cum Actual Cost	Phase AFE Cost
Drilling	17.29	24.85	8,032,851	11,189,037
Completion	0.00	7.90	0	3,739,724

Daily Personnel Count

Type	Head Count	Total Hours (hrs)	Comments
ExxonMobil	2	24.00	Drilling Supervisors
ExxonMobil	0		Drilling Engineer
Contractor (Excluding SSE)	32	384.00	ISDL
Contractor (SSE Only)	0		ISDL
Service Company	3	36.00	Sodexo
Service Company	2	24.00	Baroid
Service Company	5	60.00	Anadril
Service Company	0		Halliburton DBS Underreamer
Service Company	0		Halliburton Wireline
Service Company	0		Halliburton Completions
Service Company	0		Schlumberger E-Line
Service Company	0		Schlumberger TCP
Service Company	0		Scientific Drilling
Service Company	1	12.00	Bond Logistics
Service Company	0		Tuboscope
Service Company	0		Baker Oil Tools
Service Company	0		Cameron Wellhead

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Type	Head Count	Total Hours (hrs)	Comments
Service Company	1	12.00	AIPC Geologist
ExxonMobil	0		EAL Geologist
Service Company	2	24.00	Howco
Service Company	0		Tesco
Service Company	5	60.00	Geoservices
Service Company	4	48.00	Weatherford
Service Company	0		Furmanite
Service Company	1	12.00	Maersk H2S
Service Company	3	36.00	Scomi
Service Company	0		Boom Logistics
Service Company	0		Worley Parsons
Service Company	0		Skilled Engineering
Service Company	0		DNV
Service Company	0		BAE
Service Company	0		Alpha Rigging
Service Company	0		Haden Refridge
Service Company	0		Photographers - Nabors

Personnel on Location

Contact	Comments
Drilling Supervisor, ExxonMobil, Mark Calicutt, 61-3-5142-2880	
Drilling Supervisor, ExxonMobil, Sam Falkner, 61-3-5142-2880	

Safety Check Summary

Type	Last Date	Freq
Abandon Ship Drill	5/17/2009 16:30	1
BOP Control Function Test (BCFT)	5/23/2009 10:00	2
BOP Drill (Pit or Trip Drill)	5/24/2009 20:00	27
BOP Pressure Test	5/9/2009 21:30	1
BOP System Inspection (Minicheck)	5/24/2009 18:30	28
Fire Drill	5/24/2009 16:30	3
Hazard Hunt	5/18/2009 19:30	2
Operations Superintendent Inspection	5/23/2009 22:00	1
Pre-Tour Safety Meeting	5/24/2009 17:45	34
Safety Meeting	5/19/2009 06:30	4

STOP Cards and JSA's

Obs/JSA Type	No. Rpts	Comment
Green (+) SH&E Observations	0	
JSA's/JRA's (or equivalent)	23	
Red (-) SH&E Observations	1	

Fluid Checks

Source	Date/Time	Fluid Type	Fluid Category	MD (mR175)	Density (lb/gal)	ECD (lb/gal)
	5/24/2009 21:00	Synthetic	Olefin/Ester Blend	3,983.0	12.00	
Funnel Viscosity (s/qt)	FL Temp (°C)	Plastic Viscosity (cp)	Yield Point (lbf/100ft²)	10-Sec Gel (lbf/100ft²)	10-Min Gel (lbf/100ft²)	30-Min Gel (lbf/100ft²)
152	60.0	80.0	33	14	29	32
600 RPM Dial Reading	300 RPM Dial Reading	200 RPM Dial Reading	100 RPM Dial Reading	6 RPM Dial Reading	3 RPM Dial Reading	Visc Temp (°C)
193	113	84	51	13	10	49.0
API FL (mL/30min)	API FC (/32")	HTHP FL (mL/30min)	HTHP FC (/32")	HTHP Temp (°C)	HTHP Pressure (psi)	BHST (°C)
		4.0	2	121.0	500.0	
Excess Lime (lb/bbl)	Ca++ (mg/L)	Chlorides (mg/L)	n (Calc)	K (Calc)	Wellbore COBIA F27	
			0.46	23.93		
pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Potassium (mg/L)	MBT (lb/bbl)	Activity
Alkalinity (mL/mL)	WPS (ppm)	Electrical Stability (V)	Filter Size (µm)	Iron Content (mg/L)	NTU	TCT (°C)
	286,731	672				
Volume % Water (%)	Volume % Oil (%)	Oil/Water Ratio	Sand Content (%)	Volume % Solids (%)	LGS (%)	HGS (%)
18.9	5.5	22.5/77.5		24.4	18.9	5.5
Circ Volume (bbl)	Active Pit Vol (bbl)	Reserve Volume (bbl)	Whole Mud Added (b...	Base Fluid Add (bbl)	Additives Vol (bbl)	Dilution Rate
1360.0	420.0	893.0		21.0	18.0	
Evap Vol Add (bbl)	Downhole Losses (b...	Cum DH Loss (bbl)	Surface Losses (bbl)	Cum Surf Loss (bbl)	Cumulative Mud Added (bbl)	
			117.3	2690.3	1173.0	

Comments
10.8ppg @ 20 deg

Job Supply Summary

Typ	Unit Sz	Unit Label	Consumed	Cum Consumed	Received	Cum Received	Returned	Cum Returned	Cum On Loc
Fuel	1	Liter	11,547.0	91,040.0	0.0	0.0	0.0	0.0	-91,040.0
Barite	100	Pound	0.0	4,890.0	0.0	2,670.0	0.0	0.0	-2,220.0
Base Oil	42	US Gallon	0.0	192.0	0.0	295.0	0.0	0.0	103.0

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Mud Additive Amounts

Function	Description	Sales Unit Size	Sales Unit	Consumption	Cum Consumption	Cost	Cum Cost
Base Fluid	ACCOLADE Base Oil	1.0	Each	21.0	209.0	8,665	86,240
Emulsifier	LE SUPERMUL	1,000.0	Liter	2.0	6.0	6,798	20,394
Filtration Reducer	ADAPTA HP	25.0	Kilogram	10.0	10.0	4,983	4,983
Thinners	ATC	55.0	US Gallon	3.0	11.0	6,156	22,572

Safety Checks

Type	Result	Date/Time	Comments
Pre-Tour Safety Meeting	Satisfactory	5/24/2009 05:45	
BOP System Inspection (Minicheck)	Satisfactory	5/24/2009 06:30	
BOP Drill (Pit or Trip Drill)	Satisfactory	5/24/2009 07:30	Day Crew Pit Drill, 63sec
Fire Drill	Satisfactory	5/24/2009 16:30	Weekly Fire Drill (8mins response)
Pre-Tour Safety Meeting	Satisfactory	5/24/2009 17:45	
BOP System Inspection (Minicheck)	Satisfactory	5/24/2009 18:30	
BOP Drill (Pit or Trip Drill)	Satisfactory	5/24/2009 20:00	Night Crew Pit Drill, 43sec

Job Contacts - Only shows Superintendent(s) and Engineers(s)

Type	Name	Office
Completions Engineer	Andrew Miatello	61-3-9270-3857
Drilling Engineer	Bruce Harline	61-3-9270-3236
Drilling Engineer	Lucy Coddington	61-3-9270-3860
Drilling Engineer	Tim Woods	61-3-9270-3640
Ops Superintendent	John Suitts	61-3-9270-3540

Rig and BOP Information - all BOP's for this rig

Company	Rig Name	Rig Type	Rig Start Date/Time	Rig Release Date/Time	
Nabors	Rig 175	Platform	5/7/2009		
Installation	API Designation	Nominal ID (in)	Pressure Rating (psi)	Service	Height (m)
Surface		21 1/4	2,000.0		
Surface	CrRRSRdA	13 5/8	5,000.0	Sour (NACE)	4.98

Mud Pump - Liner Information

Pump Number	Make	Model	Start Date/Time	End Date/Time	Liner Size (in)	Displace... (bbl/stk)	Max Pressure (psi)	Calc Disp (bbl/stk)
1	Continental-Emsco	F-1600	5/7/2009 22:00		6 1/2	0.1180	3,981.0	0.118
2	Continental-Emsco	F-1600	5/7/2009 22:00		6 1/2	0.1180	3,981.0	0.118
3	Continental-Emsco	F-1600	5/7/2009 22:00		6 1/2	0.1180	3,981.0	0.118

Shaker Screens

Type	Make	Model	Dt/Tm Installed	Dt/Tm Removed	Deck Number	Nom Mesh Size	Comments
Conventional	Swaco	Mongoose	5/18/2009 00:00	5/25/2009 00:00	4		API 120
Conventional	Swaco	Mongoose	5/25/2009 00:00		4		API 140
Conventional	Swaco	Mongoose	5/18/2009 22:00		3		API 120
Conventional	Swaco	Mongoose	5/18/2009 00:00		2		API 120
Conventional	Swaco	Mongoose	5/18/2009 00:00		1		API 120

String No. 8

Drill String Name	String Number	Date/Time Run	Dt Lst Drig Par	MD In (mR175)	MD Lst Drig Par (mR...)	
9-7/8"	8	5/19/2009 06:30	5/25/2009 05:00	603.00	3,983.00	
Min WOB (1000lbf)	Min Total RPM (rp...)	Min Circ Rate (gpm)	Min SPP (psi)	Min Pickup HL (1000lbf)	Min Slackoff HL (1000lbf)	Min Rotate HL (1000lbf)
19	97	672	2,800.0	151	125	140
Max WOB (1000lbf)	Max Total RPM (rp...)	Max Circ Rate (gpm)	Max SPP (psi)	Max Pickup HL (1000lbf)	Max Slackoff HL (1000lbf)	Max Rotate HL (1000lbf)
31	162	750	3,744.0	365	170	236

Comments

9-7/8" Production Hole

String No. 8 - Bit Information

Bit	Bit And Run Number	Bit Type	Nozzles (/32")	Total Bit TFA (in ²)
9 7/8in, RSX616M-A13, 222119	1/1	PDC	18/18/18/18/18	1.49
IADC Classification	Hole Made (Run) (m)	Hours Drl (Run) (hrs)	ROP (m/hr)	IADC Dull Grade
M322	3,380.00	107.10	31.6	-----

Daily Drilling Parameters and Hydraulics - If hydraulics are blank, check string output report for errors

Start MD (mR175)	End MD (mR175)	Avg ROP (Int) (m/hr)	Drill Time (hrs)	Total Circ Time (hrs)	WOB (1000lbf)	Total RPM (rpm)	Circ Rate (gpm)	Standpipe Pres (psi)	Rotating HL (1000lbf)	Pickup HL (1000lbf)	Slackoff HL (1000lbf)	Drilling Torque	ECD End (lb/gal)	HP/Area (hp/in ²)	Jet Vel (m/s)	Bit dP (psi)	% P @ bit (%)
3,801.00	3,983.00	10.3	17.70		28	105	676	3,744.0	236	340	170	15.3		1.2	44.3	230.0	6

String Components

Item Des	Nominal OD (in)	Nominal ID (in)	Nominal Weight (lbs/ft)	Grade	Length (m)	Btm Conn Thread	Btm Conn Size (in)	Serial Number	Blade OD (in)	Cum Len to Bit (m)	Cum Vol Disp (bbl)	Cum Weight (1000lbf)
Drill Pipe	5 1/2	4.778	21.90	S	1,365.30					1,601.49	49.7	131

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Drill Pipe - Heavy Wall	5 1/2	3.250	57.00	E	18.75	HT55	5 1/2			236.19	17.4	33
Accelerator	7	2.625			9.03	HT55	5 1/2	16671016		217.44	16.2	30
Drill Pipe - Heavy Wall	5 1/2	3.250	57.00	E	75.04	HT55	5 1/2			208.41	15.0	30
Drilling Jars - Hydraulic	7	2.625			9.76	HT55	5 1/2	1660-1052		133.37	10.3	16
Drill Pipe - Heavy Wall	5 1/2	3.250	57.00	E	84.38	HT55	5 1/2			123.61	9.0	16
XO Sub	7	2.750			1.18	IF	4 1/2	MSO2913		39.23	3.7	0
Density/Neutron	6 3/4	2.250			6.60	FH	5 1/2	2400		38.05	3.5	0
Sonic	6 3/4	3.250			7.06	FH	5 1/2	649		31.45	2.7	0
Stabilizer - Non Mag	6 3/4	3.250			1.09	FH	5 1/2	2123-1	9.88	24.39	1.9	0
MWD - Directional	6 3/4	5.110			7.87	FH	5 1/2	VC64		23.30	1.8	0
Stabilizer - Non Mag	6 3/4	3.250			1.09	FH	5 1/2	2123-3	9.88	15.43	1.3	0
Gamma Ray/Resistivity	6 3/4	2.810			5.85	FH	5 1/2	2065		14.34	1.2	0
Rotary Steerable Tool	6.8	5.250			7.66	REG	4 1/2	228		8.49	0.5	0

Wellbore Information

Wellbore Name COBIA F27	Purpose Original Wellbore	Profile Type Build and Hold	Regulatory Name CBA F27	Regulatory ID CBA F27
Parent Wellbore	Starting MD (mR175) 119.99	Kick-off MD (mR175) 119.99	Kick-off Method Steerable Motor	Job Drilling and Completion, 5/7/2009 22:00 - <End Date/Time?>
Actual Dir Srvy Actual Survey CBA F27	Prop Dir Srvy Proposed Survey CBA F27 Rev #3	VS Azimuth (°) 358.17	VS EW Origin (m) 10.7	Vertical Section North-South Origin (m) -0.4

Wellbore (Hole) Sections

Act Start Dt/Tm	Act End Dt/Tm	Section	Diameter (in)	Actual Top MD (mR175)	Bottom MD (mR175)
10/11/2008 07:10	10/20/2008 00:10	Conductor	20	119.99	186.30
5/10/2009 17:30	5/12/2009 05:45	Surface	14 3/4	201.00	599.00
5/17/2009 18:00		Production	9 7/8	599.00	1,601.00

PBTD'S

Date	Type	Depth (mR175)	Total Depth (mR175)	Method	Comment
			1,601.00		

Deviation Survey (Tie point) - Actual Survey CBA F27

Survey Date/Time 5/11/2009 05:00	Description Actual Survey CBA F27	Azimuth North Type Grid North	Job Drilling and Completion, 5/7/2009 22:00 - <End Date/Time?>
Tie-In MD (mR175) 185.16	Tie-In Inclination (°) 6.67	Tie-In Azimuth (°) 93.74	Tie-In TVD (mR175) 184.98
Declination (°) 13.22	Convergence (°) -0.81	Comments KB = 40.99 m	VS Tie In (m) 0.99
			TieIn NS Offset... 0.67
			TieIn EW Offset (m) 14.09

Casing Strings - Only shows information for the longest casing component in a string - for other components see casing detail report

Wellbore	Description	Nominal OD (in)	Nominal ID (in)	Nominal Weight (lbs/ft)	Nominal Grade	Nom Top Conn	Length (m)	Leak Off Dens (lb/gal)	Top MD (mR175)	Cut/Pull MD (mR175)	Bottom MD (mR175)
COBIA F27	Conductor Pipe	20	18.638	140.00	Other	RL-4S	179.66		21.60		201.26
COBIA F27	Surface Casing	10 3/4	10.050	40.50	L-80	BTC	572.56		21.54		594.10