

Daily Operations - A4Well: **COBIA A28**

Wellbore Reg. Name: CBA A28

	Planned	Actual (Cum)
Days (orig)	29.28	14.71
MD/TVD	4,013.75/ 2,468.23	3,995.00/ 2,450.95
Cost (w/suppl)	14,613,615	6,650,866

Esso Australia Pty. Ltd.
ExxonMobil Use OnlyUnit Set: Mixed
Reference Elev: R175
Currency: AUDReport No: 15 Progress: 95.00
Phase: Drilling, Drilling, Drill 9-7/8" Production Hole

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Rpt. Period: 7/15/2009 05:00 to 7/16/2009 05:00

Well Information

Country	Territory/State	Field Name	Lease	Operating Facility	Slot / Conductor
Australia	Victoria	Halibut		CBA	28
Operator	Drilling Purpose	Regulatory Well ID	Local Latitude (DMS)	Local Longitude (DMS)	
Esso Australia Pty. Ltd.	Development Infill		38° 26' 54.465" S	148° 18' 32.995" 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	7/1/2009 12:00		EMPC	50.00	7/4/2009 11:15
Stewarding Company	Stewarding Team	Primary Wellbore Affected	Orig DCI	Orig WCI	
EMDC Drilling	Australia	COBIA A28	4.8	2.6	
AFE or Job Number	Appropriation Type	Currency	Exchange Rate	Ttl Orig AFE	Tot AFE (w/Spp)
609/09017.1.01	Capital	AUD	0.67	14,613,615	14,613,615

Daily Operations Information

Rig (Names)	Cum % NPT (%)	Days From Spud	Days Ahead/Behind	Daily Cost Total		
Nabors - 175	5.52	11.74		317,993		
Daily Personnel Count	Daily Personnel (hrs)	Days Since Hurt	Days Since RI	Days Since LTI	Drill Time (hrs)	Average ROP (m/hr)
62.0	744.00	58.00	58.00	398.00	9.25	10.3

Performance Limiter	Mitigation Attempts/Results
Activity at Report Time	Next Activity
PROH at 2652m	Cont' PROH f/2652m to surface

Management Summary

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

Drill 9-7/8" Production hole f/3900m to 3995m(TD) w/9-7/8" Xceed MWD/LWD Assy. PROH f/3995m to 2652m w/9-7/8" Xceed LWD/MWD Assy.

Remarks

PTSM - 05:45hrs: Smart Cards, JSAs, Stepback 5x5s, Procedures and Permits as Required, Well Control, Drilling, PROH, Wear PPE, Backload Mud, Trace Lines & Follow Procedures, ServiceFar Supplier (09:30-10:00, 13:00-18:00).

PTSM - 17:45 hrs: Smart Cards, JSAs, Stepback 5x5s, Procedures and Permits as Required, Well Control, PROH, Check for Pressure Pre-Breaking Out Connection, Wear Slicker Suits, Monitor Pit Levels.

- Attend Daily Platform Operations Meeting.
- Held Daily Drilling Operations Meetings.
- Last Weekly Safety Meeting: 13th July and 14th July 2009.
- Last Ops Supt Inspection: 9th July 2009.
- Next BOP test: 22nd July 2009
- Next BCFT test: 16th July 2009
- Last Accumulator Pump Capacity Test: 9th July 2009
- Last Platform Fire Drill: 14th July 2009.
- Last Deluge function: 9th July, 2009.

DP Rotating hours today : 18.7 hrs
 DP Cumulative rotating hrs: 813.1 hrs
 HWDP Rotating hours today : 18.7 hrs
 HWDP Cumulative rotating hrs: 195.6 hrs

Wellbore	Average Background Gas	Average Connection Gas	Average Trip Gas	Average Drilling Gas	Maximum H2S (ppm)
COBIA A28	32				
Time Log (hrs)	Last Casing String	Next Casing String	Formation Description		
24.00	10-3/4"	7"			

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Time Log

Start Time/Ti...	Elapsed Time (hrs)	End MD (mR175)	Category	NPT Ref #	Comments
05:00	9.25	3,995.00	DRLG		Drill 9-7/8" Production hole f/3900m to 3995m(TD) w/9-7/8" Xceed MWD/LWD Assy. Connection procedure: Back ream a single for 5min at 100rpm and 635gpm. S/D rotary and record PU and SO w/635gpm. Make connection if PU and SO are not diverging, if P/U and S/O are diverging cont' to circulate and clean hole. Survey : 3975.05mMD, Inclination: 60.00°, Azimuth: 19.01° Projection to TD: 3995.00mMD, Inclination: 59.95°, Azimuth: 18.90° Drilling parameters: WOB= 5-40klb, RPM= 80-150, TRQ= 10-28kft-lbs, SPP= 3600psi, GPM= 635gpm, RTWT= 230klb, PUWT= 315klb, SOWT= 190klb, MW= 11.8ppg, ECD= 12.61-12.91ppg, ROP= 5-30m/hr, MSE= 15-246ksi, VIBES: LAT max= 1.0g, VIBES: X max= 0.13g, SHOCK = 0, STICK/SLIP = high, AXIAL= low, LATERAL= low. Cuttings: 50%< 0.5mm, 40% 0.5 - 2.0mm, 10% 2.0-10.0mm. 100% fresh cuttings generated by bit. Geoservices Cuttings Flow Meter system indicates 66.5% recovery for last 100m. 82.9% Cumulative Recovery. ROP limiter: High Stick Slip, Worn Bit
14:15	0.75	3,995.00	CIRC		Anadril take survey and downlink at 3995m(TD) w/9-7/8" Xceed LWD/MWD.
15:00	14.00	3,995.00	DRLG		PROH f/3995m to 2652m w/9-7/8" Xceed LWD/MWD Assy 40 to 60 rpm, 600 to 650gpm w/2900 to 3550psi.

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	14.71	20.68	6,650,866	10,405,042
Completion	0.00	8.60	0	4,208,572

Daily Personnel Count

Type	Head Count	Total Hours (hrs)	Comments
ExxonMobil	3	36.00	Drilling Supervisors
ExxonMobil	0		Drilling Engineer
Contractor (Excluding SSE)	30	360.00	ISDL
Contractor (SSE Only)	2	24.00	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
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	0		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	4	48.00	FTA Day Trip - 2x Weatherford

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Personnel on Location

Contact	Comments
Drilling Supervisor, ExxonMobil, Andy Choy, 61-3-5142-2880	
Drilling Supervisor, ExxonMobil, Danny Daniels, 61-3-5142-2880	
Drilling Supervisor, ExxonMobil, Mark Calicutt, 61-3-5142-2880	

Safety Check Summary

Type	Last Date	Freq
Abandon Ship Drill	7/14/2009 07:15	2
Accumulator Pump Capacity Test	7/9/2009 00:00	2
Accumulator Volume Test	7/9/2009 00:00	2
BOP Control Function Test (BCFT)	7/9/2009 00:00	3
BOP Drill (Pit or Trip Drill)	7/15/2009 19:45	23
BOP Pressure Test	7/8/2009 14:15	2
BOP System Inspection (Minicheck)	7/15/2009 18:45	22
Casing Test	7/8/2009 16:15	1
Diverter Equipment Test	7/6/2009 01:15	4
Fire Drill	7/14/2009 07:15	3
H2S Drill	7/5/2009 04:55	4
Hazard Hunt	7/8/2009 03:30	4
Medical Evacuation Drill	6/29/2009 16:15	1
Operations Superintendent Inspection	7/9/2009 00:00	2
Power Choke Drill	7/9/2009 00:15	2
Pre-Tour Safety Meeting	7/15/2009 17:45	29
Regulatory Agency Citation		
Safety Meeting	7/14/2009 06:30	5

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	3	

Fluid Checks

Source	Date/Time	Fluid Type	Fluid Category	MD (mR175)	Density (lb/gal)	ECD (lb/gal)
Pit	7/15/2009 21:00	Synthetic	Olefin/Ester Blend	3,995.0	12.00	
Funnel Viscosity (s/qt)	FL Temp (°C)	Plastic Viscosity (cp)	Yield Point (lb/100ft²)	10-Sec Gel (lb/100ft²)	10-Min Gel (lb/100ft²)	30-Min Gel (lb/100ft²)
132	70.0	73.0	32	12	22	26
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)
178	105	80	49	11	9	49.0
API FL (mL/30min)	API FC (/32")	HTHP FL (mL/30min)	HTHP FC (/32")	HTHP Temp (°C)	HTHP Pressure (psi)	BHST (°C)
		3.9	2	121.0	500.0	104.0
Excess Lime (lb/bbl)	Ca++ (mg/L)	Chlorides (mg/L)	n (Calc)	K (Calc)	Wellbore COBIA A28	
		40,996	0.48	20.89		
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)
	275,968	869				
Volume % Water (%)	Volume % Oil (%)	Oil/Water Ratio	Sand Content (%)	Volume % Solids (%)	LGS (%)	HGS (%)
18.5	57.0	75.5/24.5		22.6	14.7	7.9
Circ Volume (bbl)	Active Pit Vol (bbl)	Reserve Volume (bbl)	Whole Mud Added (b...)	Base Fluid Add (bbl)	Additives Vol (bbl)	Dilution Rate
1361.9	461.0	579.0	300.0	17.0	19.7	
Evap Vol Add (bbl)	Downhole Losses (b...)	Cum DH Loss (bbl)	Surface Losses (bbl)	Cum Surf Loss (bbl)	Cumulative Mud Added (bbl)	
30.0			113.7	1154.1	1300.0	

Comments

Oil on Cuttings: Dryer Daily avg= 7.5%, Well avg= 6.8%, 30 Day avg = 6.9%.

Job Supply Summary

Typ	Unit Sz	Unit Label	Consumed	Cum Consumed	Received	Cum Received	Returned	Cum Returned	Cum On Loc
Fuel	1	Liter	10,931.0	88,039.0	0.0	0.0	0.0	0.0	-88,039.0
Barite	100	Pound	110.0	2,460.0	0.0	4,870.0	0.0	0.0	2,410.0
Base Oil	42	US Gallon	17.0	276.0	80.0	507.0	0.0	0.0	231.0

Mud Additive Amounts

Function	Description	Sales Unit Size	Sales Unit	Consumption	Cum Consumption	Cost	Cum Cost
Base Fluid	ACCOLADE Base Oil	1.0	Each	17.0	276.0	4,361	70,808
Base Fluid	ACCOLADE Mud	1.0	Each	-300.0	2,435.0	-67,122	544,807
Emulsifier	LE SUPERMUL	55.0	US Gallon	4.0	54.0	2,989	40,349
Filtration Reducer	BARACARB 150	1,000.0	Kilogram	1.0	4.0	528	2,112
Filtration Reducer	BARACARB 50	1,000.0	Kilogram	2.0	5.0	1,004	2,510
Lubricant	Radiagreen EME	55.0	US Gallon		0.0		0
Surfactant	BARAKLEAN NS PLUS	1,000.0	Liter		0.0		0

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Mud Additive Amounts

Function	Description	Sales Unit Size	Sales Unit	Consumption	Cum Consumption	Cost	Cum Cost
Weighting Material	Barite	100.0	Pound	110.0	2,460.0	1,650	36,900

Safety Checks

Type	Result	Date/Time	Comments
Pre-Tour Safety Meeting	Satisfactory	7/15/2009 05:45	
BOP Drill (Pit or Trip Drill)	Satisfactory	7/15/2009 11:15	Pit Drill: 40sec
Pre-Tour Safety Meeting	Satisfactory	7/15/2009 17:45	
BOP System Inspection (Minicheck)	Satisfactory	7/15/2009 18:45	
BOP Drill (Pit or Trip Drill)	Satisfactory	7/15/2009 19:45	Trip Drill: 42sec

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 Suits	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	175	Platform	7/1/2009	
Installation	API Designation	Nominal ID (in)	Pressure Rating (psi)	Service
Surface	CrRRSRdA	13 5/8	5,000.0	Sour (NACE)
				Height (m)
				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	7/3/2009 05:00		6 1/2	0.1180	3,981.0	0.118
2	Continental-Emsco	F-1600	7/3/2009 05:00		6 1/2	0.1180	3,981.0	0.118

Mud Pump - SPR and Operational pump rates

Pump Number	Date/Time	MD (mR175)	Slow Rate?	Stroke Rate (spm)	Pressure (psi)	Vol Efficiency (%)
1	7/15/2009 06:30	3,909.00	Yes	40	570.0	
1	7/15/2009 06:30	3,909.00	Yes	50	720.0	
1	7/15/2009 06:30	3,909.00	Yes	30	400.0	
2	7/15/2009 06:30	3,909.00	Yes	40	560.0	
2	7/15/2009 06:30	3,909.00	Yes	30	400.0	
2	7/15/2009 06:30	3,909.00	Yes	50	700.0	

Shaker Screens

Type	Make	Model	Dt/Tm Installed	Dt/Tm Removed	Deck Number	Nom Mesh Size	Comments
Conventional	Swaco	Mongoose	7/10/2009 00:00			120	
Conventional	Swaco	Mongoose	7/10/2009 00:00			140	
Conventional	Swaco	Mongoose	7/10/2009 00:00			140	
Conventional	Swaco	Mongoose	7/10/2009 00:00			120	

String No. 4

Drill String Name	String Number	Date/Time Run	Dt Lst Drig Par	MD In (mR175)	MD Lst Drig Par (mR...)
9-7/8" Xceed MWD/LWD	4	7/9/2009 01:15	7/16/2009 05:00	587.00	3,995.00
Min WOB (1000lbf)	Min Total RPM (rp...)	Min Circ Rate (gpm)	Min SPP (psi)	Min Pickup HL (1000lbf)	Min Slackoff HL (1000lbf)
15	60	620	1,800.0	130	122
Max WOB (1000lbf)	Max Total RPM (rp...)	Max Circ Rate (gpm)	Max SPP (psi)	Max Pickup HL (1000lbf)	Max Slackoff HL (1000lbf)
40	160	750	3,600.0	360	210
Max Rotate HL (1000lbf)					230

Comments

String No. 4 - Bit Information

Bit	Bit And Run Number	Bit Type	Nozzles (/32")	Total Bit TFA (in ²)
9 7/8in, RSR616M-A14, 222650	4/1	PDC	15/15/15/15/15	1.04
IADC Classification	Hole Made (Run) (m)	Hours Drl (Run) (hrs)	ROP (m/hr)	IADC Dull Grade
M322	3,408.00	144.75	23.5	-----

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 (%)
3,900.00	3,995.00	10.3	9.25	24.00	40	150	635	3,600.0	230	320	190	25.0	13.25	2.0	59.7	417.1	12

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	3,758.95	HT55	5 1/2			3,994.69	106.2	303

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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 - Heavy Wall	5 1/2	3.250	57.00	E	18.74	HT55	5 1/2			235.74	17.3	33
Accelerator	7	2.750			8.94	HT55	5 1/2	1667-1001		217.00	16.2	30
Drill Pipe - Heavy Wall	5 1/2	3.250	57.00	E	74.96	HT55	5 1/2			208.06	15.0	30
Drilling Jars - Hydraulic	7	2.750			9.87	HT55	5 1/2	1660-1080		133.10	10.3	16
Drill Pipe - Heavy Wall	5 1/2	3.250	57.00	E	84.31	HT55	5 1/2			123.23	9.0	16
XO Sub	7	2.875			1.18	IF	4 1/2	MSO2913-03		38.92	3.7	0
Density/Neutron	6 3/4	2.250			6.61	FH	5 1/2	2386		37.74	3.5	0
Sonic	6 3/4	3.290			7.25	FH	5 1/2	630		31.13	2.7	0
Stabilizer - Non Mag	6 3/4	3.250			0.97	FH	5 1/2	OSSO9104B	9 5/8	23.88	1.9	0
MWD - Directional	6 3/4	5.110			8.10	FH	5 1/2	E0330		22.91	1.8	0
Stabilizer - Non Mag	6 3/4	3.250			0.97	FH	5 1/2	OSSO90410...	9 5/8	14.81	1.3	0
Gamma Ray/Resistivity	6 3/4	2.810			5.90	FH	5 1/2	2056		13.84	1.1	0
Rotary Steerable Tool	6 3/4	5.250			7.63	REG	4 1/2	CRSC-AA-120		7.94	0.4	0

Wellbore Information

Wellbore Name	Purpose	Profile Type	Regulatory Name	Regulatory ID
COBIA A28	Original Wellbore	Build and Hold	CBA A28	CBA A28
Parent Wellbore	Starting MD (mR175)	Kick-off MD (mR175)	Kick-off Method	Job
	121.99	201.26	Jetting	Drilling and Completion, 7/1/2009 12:00 - <End Date/Time?>
Actual Dir Srvy	Prop Dir Srvy	VS Azimuth (°)	VS EW Origin (m)	Vertical Section North-South Origin (m)
Actual Survey CBA A28	Proposed Survey CBA A28 Rev #3	23.06	12.9	-0.3

Wellbore (Hole) Sections

Act Start Dt/Tm	Act End Dt/Tm	Section	Diameter (in)	Actual Top MD (mR175)	Bottom MD (mR175)
12/30/2008 06:00	1/9/2009 12:30	Conductor	20	121.99	201.26
7/4/2009 10:15	7/5/2009 19:30	Intermediate	14 3/4	201.26	587.00
7/9/2009 06:15		Production	9 7/8	587.00	3,995.00

PBTD's

Date	Type	Depth (mR175)	Total Depth (mR175)	Method	Comment
			3,995.00		

Deviation Survey (Tie point) - Actual Survey CBA A28

Survey Date/Time	Description	Azimuth North Type	Job			
7/5/2009 11:45	Actual Survey CBA A28	Grid North	Drilling and Completion, 7/1/2009 12:00 - <End Date/Time?>			
Tie-In MD (mR175)	Tie-In Inclination (°)	Tie-In Azimuth (°)	Tie-In TVD (mR175)	VS Tie In (m)	TieIn NS Offset...	TieIn EW Offset (m)
188.46	5.77	152.36	179.70	-0.63	-2.36	16.00
Declination (°)	Convergence (°)	Comments				
13.22	-0.81	KB = 40.99 m				

Survey Data - Shows all surveys entered during the report period

MD (mR175)	Inclination (°)	Azimuth (°)	TVD (mR175)	VS (m)	NS Offset (m)	EW Offset (m)	DLS (°/30m)
3,889.48	59.43	20.47	2,397.87	2,707.76	2,491.77	1,071.81	0.47
3,918.81	59.49	20.88	2,412.78	2,733.00	2,515.41	1,080.73	0.37
3,948.11	60.11	21.38	2,427.51	2,758.31	2,539.03	1,089.86	0.77
3,975.05	60.00	19.01	2,440.96	2,781.62	2,560.94	1,097.92	2.29
3,995.00	59.95	18.90	2,450.95	2,798.85	2,577.27	1,103.53	0.16

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 A28	Conductor Pipe	20	18.638	140.00	Other	RL-4S	179.66		21.60		201.26
COBIA A28	Surface Casing	10 3/4	10.050	40.50	L-80	BTC	565.42		19.54		584.96