

Daily Operations - A4

Well: SOUTH EAST REMORA-1

Wellbore Reg. Name: SER-1

Days (orig)	Planned	Actual (Cum)
	32.82	8.88
MD/TVD	3,936.08/ 3,671.99	1,073.00/ 1,072.99
Cost (w/suppl)	41,700,820	8,537,545

Esso Australia Pty. Ltd.
ExxonMobil Use Only

Unit Set: Mixed
Reference Elev: OP
Currency: AUD

Report No: 9 Progress: 373.00
Phase: Drilling, Drilling, Drill 17-1/2" hole to 1085m

Page: 1 of 5
Rpt. Period: 12/23/2009 05:00 to 12/24/2009 05:00

Well Information

Country	Territory/State	Field Name	Lease	Operating Facility	Slot / Conductor
Australia	Victoria		VIC/RL-04		
Operator	Drilling Purpose	Regulatory Well ID	Local Latitude (DMS)	Local Longitude (DMS)	
Esso Australia Pty. Ltd.	Near Field Wildcat		38° 9' 40.988" S	148° 12' 58.46" E	
Original KB Elevation (m)	Ground Elevation (m)	KB-Ground Distance (m)	Working Elevation (m)	Water Depth (m)	Well Spud Date/Time
21.50	0.00	21.50	21.50	57.00	12/20/2009 02:00

Job Information

Primary Job Type	Job Start Date/Time	Job End Date/Time	Client	Working Interest (%)	Job Spud Date/Time
Drilling	12/15/2009 08:00		EMPC	50.00	12/20/2009 02:00
Stewarding Company	Stewarding Team	Primary Wellbore Affected	Orig DCI	Orig WCI	
EMDC Drilling	Australia	SOUTH EAST REMORA-1	3.4		
AFE or Job Number	Appropriation Type	Currency	Exchange Rate	Ttl Orig AFE	Tot AFE (w/Spp)
607/ 09000.1	Capital	AUD	0.67	41,700,820	41,700,820

Daily Operations Information

Rig (Names)	Cum % NPT (%)	Days From Spud	Days Ahead/Behind	Daily Cost Total		
Diamond Offshore - Ocean Patriot	1.41	4.13		742,505		
Daily Personnel Count	Daily Personnel (hrs)	Days Since Hurt	Days Since RI	Days Since LTI	Drill Time (hrs)	Average ROP (m/hr)
88.0	1,056.00	8.00	23.00	23.00	19.00	19.6

Performance Limiter	Mitigation Attempts/Results
Drillstring Torque/WOB	Drilling with max wt, (Hard stringers)

Activity at Report Time	Next Activity
Drill 17.5" hole	Drill to 1085, circ hole clean, spot pad mud, trip out of hole

Management Summary

Drill 17.5" hole to 1073m

Remarks

Days without spills = 22
 - Carried pre-tour safety meetings with day and night crews. Topics: STOP cards, JSAs, drilling, Tripping Pipe
 - Last Weekly Safety Meeting: 21-Dec-09.
 - Last Ops Supt Inspection: 10-Dec-09.
 - Last Fire / Abandon Ship Drill: 20-Dec-09.
 - Last BOPE test: 10-Dec-09.
 - Last BCFT: 10-Dec-09.
 - Last Choke Manifold test: 12-Dec-09.
 - Last Diverter function: 11-Dec-09.

Spud SER 1 Dec 20th @ 0200hrs

Final QA/QC spud cord on SER1
 38^ 09' 41.039" south
 148^ 12' 58.577" east

Wellbore	Average Background Gas	Average Connection Gas	Average Trip Gas	Average Drilling Gas	Maximum H2S (ppm)
SOUTH EAST REMORA-1					

Time Log (hrs)	Last Casing String	Next Casing String	Formation Description
24.00	30 (20"shoe)	13 3/8	

Time Log

Start Time/Ti...	Elapsed Time (hrs)	End MD (mOP)	Category	NPT Ref #	Comments
05:00	24.00	0.00	DRLG		Drill 17.5" hole from 700m to 1073 GPM 1200 RPM 100/120 Torq 7-8k WOB 35-40 Pump 50 bbl Hi-vis sweeps @ mid stand, and spot Pill around BHA during connections.

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
Pre-Execution	0.00	0.00	1,600,000	1,200,000
Drilling	8.88	32.82	6,937,545	36,100,820
Post-Execution	0.00	0.00	0	4,400,000

Daily Personnel Count

Type	Head Count	Total Hours (hrs)	Comments
Contractor (Excluding SSE)	47	564.00	Diamond Offshore, crew
Contractor (SSE Only)	0		Diamond Offshore, crew
Contractor (Excluding SSE)	1	12.00	Diamond Offshore, BTB Safety
Contractor (Excluding SSE)	8	96.00	Diamond Offshore, ESS Catering

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Daily Personnel Count

Type	Head Count	Total Hours (hrs)	Comments
ExxonMobil	3	36.00	Drilling Supervisors
ExxonMobil	0		Engineer
Service Company	1	12.00	Drilling Logistics
Service Company	4	48.00	SLB Anadrill
Service Company	3	36.00	SLB Cementing/HLB
Service Company	2	24.00	HLB Baroid
Service Company	6	72.00	Sub Sea 7
Service Company	0		Neptune
Service Company	0		Go Marine
Service Company	0		Arrosmith positioning control
Service Company	2	24.00	Vetco Gray
Service Company	3	36.00	Scomi
Service Company	4	48.00	Weatherford casing
Service Company	2	24.00	Mud Loggers
Service Company	0		Tasman
Service Company	2	24.00	Geologist

Personnel on Location

Contact	Comments
Drilling Supervisor, Bond Logistics, Bryan Webb, 61-8-6311-4183	
Drilling Supervisor, ExxonMobil, Josh Lepp, 61-8-6311-4181	
Drilling Supervisor, ExxonMobil, Robert Spence, 61-8-6311-4182	

Safety Check Summary

Type	Last Date	Freq
Abandon Ship Drill	12/20/2009 10:30	1
Fire Drill	12/20/2009 10:30	1
Pre-Tour Safety Meeting	12/23/2009 23:30	11
Safety Meeting	12/21/2009 00:30	3

STOP Cards and JSA's

Obs/JSA Type	No. Rpts	Comment
Green (+) SH&E Observations	60	
JSA's/JRA's (or equivalent)	34	
Red (-) SH&E Observations	41	

Weather and Sea Conditions

Time/Time	High Temp (°C)	Low Temp (°C)	Bar Pressure (mmHg)	Wind Speed (kno...)	Wind Azimuth (°)	Visibility (km)	Cloud Cover
05:00	20.0	19.0	1,007.0	28.0	90	15.	
Water Temp (°C)	Wave Height (m)	Wave Azimuth (°)	Wave Period (s)	Swell Height (m)	Swell Azimuth (°)	Swell Period (s)	
	0.50	90	4.00	1.00	90	9.00	

Vessel and Riser

Vessel Offset (m)	Heave (m)	Pitch (°)	Roll (°)	Riser Tension (kips)
	0.20	0.10	0.10	
Vessel Heading (°)	Maximum Heave (m)	Maximum Pitch (°)	Maximum Roll (°)	Riser Angle (Bottom) (°)
210	0.20	0.10	0.10	

Anchors

Anchor Number	Tension (kips)	Maximum Tension (kips)
1	267.0	
2	262.0	
3	282.0	
4	280.0	
5	269.0	
6	262.0	
7	282.0	
8	278.0	

Support Vessels

Vessel Name	Vessel Type	Vessel Count	Arrival Dt/Tm	Departure Dt/Tm	Origin	Destination	Pass Capacity
Coral	Workboat		12/15/2009	12/23/2009			
Tourmaline	Workboat		12/24/2009				

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Fluid Checks

Source	Date/Time	Fluid Type	Fluid Category	MD (mOP)	Density (lb/gal)	ECD (lb/gal)
Pit	12/23/2009 05:00	Water Based	Fresh Water Gel	915.0	8.50	
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)
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)
API FL (mL/30min)	API FC (/32")	HTHP FL (mL/30min)	HTHP FC (/32")	HTHP Temp (°C)	HTHP Pressure (psi)	BHST (°C)
Excess Lime (lb/bbl)	Ca++ (mg/L)	Chlorides (mg/L)	n (Calc)	K (Calc)	Wellbore SOUTH EAST REMORA-1	
pH	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Potassium (mg/L)	MBT (lb/bbl)	Activity
9.3						
Alkalinity (mL/mL)	WPS (ppm)	Electrical Stability (V)	Filter Size (µm)	Iron Content (mg/L)	NTU	TCT (°C)
Volume % Water (%)	Volume % Oil (%)	Oil/Water Ratio	Sand Content (%)	Volume % Solids (%)	LGS (%)	HGS (%)
Circ Volume (bbl)	Active Pit Vol (bbl)	Reserve Volume (bbl)	Whole Mud Added (b...)	Base Fluid Add (bbl)	Additives Vol (bbl)	Dilution Rate
714.7	495.0	526.0				
Evap Vol Add (bbl)	Downhole Losses (b...)	Cum DH Loss (bbl)	Surface Losses (bbl)	Cum Surf Loss (bbl)	Cumulative Mud Added (bbl)	

Comments

Job Supply Summary

Typ	Unit Sz	Unit Label	Consumed	Cum Consumed	Received	Cum Received	Returned	Cum Returned	Cum On Loc
Barite	100	ft3	0.0	0.0	135.0	135.0	0.0	0.0	135.0
Potable Water	1	m3	0.0	0.0	0.0	277.0	0.0	0.0	277.0
Fuel	1	m3	19.4	41.4	0.0	890.5	0.0	0.0	849.1
Drill Water [aka Dilution/Makeup Water]	1	m3	204.0	204.0	362.0	384.0	0.0	0.0	180.0
Bentonite	100	Pound	7.0	7.0	26.0	26.0	0.0	0.0	19.0
Cement Neat	94	Pound	0.0	0.0	0.0	122.0	0.0	0.0	122.0

Mud Additive Amounts

Function	Description	Sales Unit Size	Sales Unit	Consumption	Cum Consumption	Cost	Cum Cost
Alkalinity (pH)	Caustic Soda	25.0	Kilogram	7.0	21.0	583	1,749
Calcium Remover	Soda Ash	25.0	Kilogram	11.0	23.0	190	398
Filtration Reducer	ADAPTA HP	25.0	Kilogram		0.0		0
Filtration Reducer	BARACARB 50	25.0	Kilogram		0.0		0
Viscosifier	BARAZAN D PLUS	25.0	Kilogram	10.0	10.0	2,054	2,054
Viscosifier	Bentonite	1,000.0	Kilogram	7.0	62.6	3,228	28,871

Safety Checks

Type	Result	Date/Time	Comments
Pre-Tour Safety Meeting	Satisfactory	12/23/2009 11:30	
Pre-Tour Safety Meeting	Satisfactory	12/23/2009 23:30	

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

Type	Name	Office
Drilling Engineer	Chris Meakin	61-3-9270-3536
Drilling Engineer	Juergen Schamp	61-3-9270-3890
Drilling Engineer	Ryan Turton	61-3-9270-3008
Ops Superintendent	Kevan Jenkins	61-3-9270-3604
Ops Superintendent	Steve Wilson	61-3-9270-3604

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

Company	Rig Name	Rig Type	Rig Start Date/Time	Rig Release Date/Time	
Diamond Offshore	Ocean Patriot	Semi-Submersible	12/15/2009		
Installation	API Designation	Nominal ID (in)	Pressure Rating (psi)	Service	Height (m)
Subsea	CwRdRdAIAuCr	18 3/4	15,000.0	Sour (NACE)	13.07

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	National Supply	12-P-160	12/24/2009 00:00		6	0.1010	3,800.0	0.101
2	National Supply	12-P-160	12/20/2009 00:00		6	0.1010	4,600.0	0.101
3	Oilwell	A-1700-PT	12/24/2009 00:00		6	0.1010	3,800.0	0.101

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String No. 2

Drill String Name	String Number	Date/Time Run	Dt Lst Drlg Par	MD In (mOP)	MD Lst Drlg Par (mOP)	
17.5" pack assy	2	12/22/2009 10:30	12/24/2009 05:00	150.50	1,073.00	
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)
30	120	1,200	3,100.0	227	230	225
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)
45	120	1,200	3,450.0	227	230	225

Comments

String No. 2 - Bit Information

Bit	Bit And Run Number	Bit Type	Nozzles (/32")	Total Bit TFA (in ²)
17 1/2in, T11C, LW5756	2	Mill Tooth	16/20/20/20	1.12
IADC Classification	Hole Made (Run) (m)	Hours Drl (Run) (hrs)	ROP (m/hr)	IADC Dull Grade
115	922.50	31.00	29.8	-----

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

Start MD (mOP)	End MD (mOP)	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 (%)
700.00	1,073.00	19.6	19.00	22.00	45	120	1,200	3,450.0	225	227	230	5.0		2.7	105.1	915.1	27

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	4.276	19.50	S	558.08	NC50	4 1/2			841.11	47.9	114
Drill Pipe - Heavy Wall	5	3.000	49.30	E	141.92	NC50	4 1/2			283.03	35.9	79
XO Sub	7	2.813			0.77	NC50	4 1/2			141.11	28.7	56
Drill Collars	8	2.875	149.89		17.58	NC50	4 1/2			140.34	28.6	56
Drilling Jars - Mechanical	8	3.250			10.10	NC50	4 1/2	2217OE		122.76	25.5	47
Drill Collars	8	2.875	149.89		55.72	NC50	4 1/2			112.66	23.8	47
XO Sub	9 1/2	3.250			1.16	NC50	4 1/2			56.94	13.9	20
Drill Collars	9 1/2	3.000	192.42		27.32	NC50	4 1/2			55.78	13.6	20
Drill Collar - Non Mag	9 1/2	3.000			8.89	NC50	4 1/2	DOTS6064		28.46	6.5	2
Stabilizer	9 1/2	2.875			2.03	NC50	4 1/2	207A92	17 3/8	19.57	4.2	2
MWD - Directional	9 1/2	5.900			8.85	NC50	4 1/2	E0436		17.54	3.7	2
Stabilizer	9 1/2	2.875			2.69	NC50	4 1/2	207A34	17 3/8	8.69	2.1	2
Drill Collars	9 1/2	3.000	220.05		3.21	NC50	4 1/2	502A12		6.00	1.4	2
Stabilizer - Near Bit	9 1/2	3.000			2.19	NC50	4 1/2	207A2	17 3/8	2.79	0.6	0

Wellbore Information

Wellbore Name	Purpose	Profile Type	Regulatory Name	Regulatory ID
SOUTH EAST REMORA-1	Original Wellbore	Vertical	SER-1	SER-1
Parent Wellbore	Starting MD (mOP)	Kick-off MD (mOP)	Kick-off Method	Job
	78.50	78.50	Steerable Motor	Drilling, 12/15/2009 08:00 - <End Date/Time?>
Actual Dir Srvy	Prop Dir Srvy	VS Azimuth (°)	VS EW Origin (m)	Vertical Section North-South Origin (m)
Actual Survey SER-1	Proposed Survey SE Remora Rev 7.1	227.02	0.0	0.0

Wellbore (Hole) Sections

Act Start D/Tm	Act End D/Tm	Section	Diameter (in)	Actual Top MD (mOP)	Bottom MD (mOP)
12/20/2009 02:00	12/20/2009 05:00	Structural	36	78.50	150.50
12/22/2009 10:30		Surface	17 1/2	150.50	

PBTD's

Date	Type	Depth (mOP)	Total Depth (mOP)	Method	Comment
			150.50		

Deviation Survey (Tie point) - Actual Survey SER-1

Survey Date/Time	Description	Azimuth North Type	Job			
12/20/2009 02:00	Actual Survey SER-1	Grid North	Drilling, 12/15/2009 08:00 - <End Date/Time?>			
Tie-In MD (mOP)	Tie-In Inclination (°)	Tie-In Azimuth (°)	Tie-In TVD (mOP)	VS Tie In (m)	TieIn NS Offset...	TieIn EW Offset (m)
78.50	0.67	177.87	78.50	0.30	-0.46	0.02
Declination (°)	Convergence (°)	Comments				
13.10	-0.75	KB=21.5				

Survey Data - Shows all surveys entered during the report period

MD (mOP)	Inclination (°)	Azimuth (°)	TVD (mOP)	VS (m)	NS Offset (m)	EW Offset (m)	DLS (°/30m)
754.84	0.13	116.08	754.83	2.35	-3.79	0.32	0.12
783.49	0.02	126.33	783.48	2.34	-3.81	0.35	0.12
813.26	0.12	190.49	813.25	2.36	-3.84	0.35	0.11
841.67	0.08	106.13	841.66	2.37	-3.87	0.37	0.15
928.77	0.11	121.21	928.76	2.32	-3.93	0.50	0.01
985.89	0.12	41.21	985.88	2.24	-3.92	0.58	0.08

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MD (mOP)	Inclination (°)	Azimuth (°)	TVD (mOP)	VS (m)	NS Offset (m)	EW Offset (m)	DLS (°/30m)
1,014.56	0.08	102.17	1,014.55	2.20	-3.90	0.62	0.11
1,043.31	0.15	49.46	1,043.30	2.15	-3.88	0.67	0.13
1,073.00	0.15	49.46	1,072.99	2.08	-3.83	0.73	0.00

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 (mOP)	Cut/Pull MD (mOP)	Bottom MD (mOP)
SOUTH EAST REMORA-1	Structural	30	28.000	157.80	X-52	RL-4S	72.34		76.15		148.49