

Daily Operations - A4

Well: SOUTH EAST REMORA-1

Wellbore Reg. Name: SER-1

	Planned	Actual (Cum)
Days (orig)	32.82	9.88
MD/TVD	3,936.08/ 3,671.99	1,085.00/ 1,084.99
Cost (w/suppl)	41,700,820	9,280,050

Esso Australia Pty. Ltd.
ExxonMobil Use Only

Unit Set: Mixed
Reference Elev: OP
Currency: AUD

Report No: 10 Progress: 12.00
Phase: Drilling, Drilling, Drill 17-1/2" hole to 1085m

Page: 1 of 5

Rpt. Period: 12/24/2009 05:00 to 12/25/2009 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	1.48	5.13		742,505		
Daily Personnel Count	Daily Personnel (hrs)	Days Since Hurt	Days Since RI	Days Since LTI	Drill Time (hrs)	Average ROP (m/hr)
90.0	1,080.00	9.00	24.00	24.00		

Performance Limiter	Mitigation Attempts/Results
Drillstring Torque/WOB	

Activity at Report Time	Next Activity
R/d Casing Equip	P/U 18 3/4" HPWHH land out, cmt 13 3/8" casing

Management Summary

Drill 17.5" hole to 1085m, circ. clean, spot pad mud, Trip out of hole (work through tight spots), Jet off PGB, Pick up 13 3/8" casing and run to 993m, R/d casing equip.

Remarks

Days without spills = 23
 - Carried pre-tour safety meetings with day and night crews. Topics: STOP cards, JSAs, Running casing
 - 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

Note*

Observed (Time-1930hrs) Discolor in Water 10m From Port aft collum. Investigate from rig, nothing from rig seen. ROV will fly and look at sea floor, when Casing is landed and Cmt in Place.

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	1.00	1,085.00	DRLG		Drill 17.5" hole from 1073m to 1085m (TD).
06:00	0.50	1,085.00	CIRC		Pump 200bbl hi-vis sweep and circ. hole clean with 1200 gpm @ 3400 psi
06:30	0.50	1,085.00	CIRC		Pump and spot 300 bbls of 10.0 ppg pad mud
07:00	2.00	1,085.00	TRIP		Trip out of hole from 1085m to 850m Work through tight spots with Max pull of 100k @ 993m to 850m (rotate with 60 rpm and 15k torq, and no pump). went back down and up through spots with Min. overpull observed.
09:00	0.50	1,085.00	CIRC		Pump and spot 600 bbls of 10.0 ppg pad mud @ 850m
09:30	2.50	1,085.00	TRIP		Trip out of hole from 850m to 254m, Work through tight spots with max overpull 80k.
12:00	1.00	1,085.00	TRIP		Trip out of hole from 254m to 75m
13:00	1.00	1,085.00	CIRC		Space out and jet PGB/Well head with 900 gpm @ 600 psi. with ROV asst.
14:00	1.00	1,085.00	TRIP		Trip out of hole with 17.5" bha assy, and rack in derrick
15:00	0.50	1,085.00	TBLR		Clean rig floor, and prepare for casing job
15:30	2.50	1,085.00	TBLR		Jsa, rig up weatherford 13 3/8" csg equip.

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MD/TVD

Cost (w/suppl)

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Report No: 10 Progress: 12.00
Phase: Drilling, Drilling, Drill 17-1/2' hole to 1085m

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Rpt. Period: 12/24/2009 05:00 to 12/25/2009 05:00

Time Log

Start Time/Ti...	Elapsed Time (hrs)	End MD (mOP)	Category	NPT Ref #	Comments
18:00	3.50	1,085.00	TBLR		Pick up 13 3/8" shoe track (Baker lock first 5 joints, and check floats ok, Install baffle in float collar.) Stab in FAC tool and circ through shoe track with 50spm @ 400 psi
21:30	2.50	1,085.00	TBLR		Pick up and rih with 13 3/8" casing from 38m to 406m, Install centralizers on every connection and fill with sea h2o Stab casing into well head with ROV asst.
00:00	0.50	1,085.00	TBLR		Jsa with crew coming on tour, P/u and run casing from 406m to 419m
00:30	0.50	1,085.00	WAIT	2	Crossed 13 3/8" casing (jt#69) backed out collar, Rig up rigs tongs and break and lay out same. NPT- Weatherford
01:00	4.00	1,085.00	TBLR		Cont p/u and running 13 3/8" casing from 419m to 993m. Install Centralizers on each joint and fill with sea h2o. P/u- 290k S/o- 290k

Problem Events (NPT, Non-NPT, and Quality)

NPT Bearing?	Ref No	Category	Type	Start Date/Time	End Date/Time	Cum Dur (hrs)	Acc Party Type	Accountable Party
Yes	2	Tubulars or Strings	Casing problem	12/25/2009 00:30	12/25/2009 01:00	0.50	Third Party	WEATHERFORD INTERNATIONAL INC

Comment

Crossed a joint of 13 3/8" casing, had to change out Joint.

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	9.88	32.82	7,680,050	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)	48	576.00	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
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
ExxonMobil	1	12.00	Ops Supt.

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	
Ops Superintendent, ExxonMobil, Kevan Jenkins, 61-3-9270-3604	

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	12/24/2009 23:30	13
Safety Meeting	12/21/2009 00:30	3

STOP Cards and JSA's

Obs/JSA Type	No. Rpts	Comment
Green (+) SH&E Observations	51	
JSA's/JRA's (or equivalent)	32	
Red (-) SH&E Observations	26	

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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	25.0	20.0	1,008.0	16.0	78	15.	
Water Temp (°C)	Wave Height (m)	Wave Azimuth (°)	Wave Period (s)	Swell Height (m)	Swell Azimuth (°)	Swell Period (s)	
	0.50	78	6.00	0.50	90	9.00	

Vessel and Riser

Vessel Offset (m)	Heave (m)	Pitch (°)	Roll (°)	Riser Tension (kips)
	0.30	0.20	0.20	
Vessel Heading (°)	Maximum Heave (m)	Maximum Pitch (°)	Maximum Roll (°)	Riser Angle (Bottom) (°)
210				

Anchors

Anchor Number	Tension (kips)	Maximum Tension (kips)
1		269.0
2		265.0
3		278.0
4		276.0
5		276.0
6		265.0
7		273.0
8		282.0

Support Vessels

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

Fluid Checks

Source	Date/Time	Fluid Type	Fluid Category	MD (mOP)	Density (lb/gal)	ECD (lb/gal)
Pit	12/24/2009 05:00	Water Based	Fresh Water Gel	1,085.0	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)
268						
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
9.5						
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
762.0	436.0	520.0	439.0		45.0	
Evap Vol Add (bbl)	Downhole Losses (b...)	Cum DH Loss (bbl)	Surface Losses (bbl)	Cum Surf Loss (bbl)	Cumulative Mud Added (bbl)	
					439.0	

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	0.0	135.0	0.0	0.0	135.0
Potable Water	1	m3	27.0	27.0	41.0	318.0	0.0	0.0	291.0
Bentonite	100	m3	18.0	25.0	0.0	26.0	0.0	0.0	1.0
Fuel	1	m3	18.9	60.3	0.0	890.5	0.0	0.0	830.2
Cement Neat	94	m3	0.0	0.0	0.0	122.0	0.0	0.0	122.0
Drill Water [aka Dilution/Makeup Water]	1	m3	0.0	204.0	0.0	384.0	0.0	0.0	180.0

Mud Additive Amounts

Function	Description	Sales Unit Size	Sales Unit	Consumption	Cum Consumption	Cost	Cum Cost
Alkalinity (pH)	Caustic Soda	25.0	Kilogram	1.0	22.0	83	1,833
Calcium Remover	Soda Ash	25.0	Kilogram	3.0	26.0	52	450
Viscosifier	BARAZAN D PLUS	25.0	Kilogram	4.0	14.0	822	2,876
Viscosifier	Bentonite	1,000.0	Kilogram	17.6	80.2	8,117	36,988

Safety Checks

Type	Result	Date/Time	Comments
Pre-Tour Safety Meeting	Satisfactory	12/24/2009 11:30	
Pre-Tour Safety Meeting	Satisfactory	12/24/2009 23:30	

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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
Subsea	CwRdRdAlAuCr	18 3/4	15,000.0	Sour (NACE)
				Height (m)
				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

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	12/25/2009 05:00	150.50	1,085.00
Min WOB (1000lbf)	Min Total RPM (rp...)	Min Circ Rate (gpm)	Min SPP (psi)	Min Pickup HL (1000lbf)	Min Slackoff HL (1000lbf)
30	120	1,200	3,100.0	227	230
Max WOB (1000lbf)	Max Total RPM (rp...)	Max Circ Rate (gpm)	Max SPP (psi)	Max Pickup HL (1000lbf)	Max Slackoff HL (1000lbf)
45	120	1,200	3,450.0	227	230

Comments

String No. 2 - Bit Information

Bit	Bit And Run Number	Bit Type	Nozzles (3/2")	Total Bit TFA (in ²)
17 1/2in, T11C, LW5756	2	Mill Tooth	20/20/16/20	1.12
IADC Classification	Hole Made (Run) (m)	Hours Drl (Run) (hrs)	ROP (m/hr)	IADC Dull Grade
115	934.50	31.00	30.1	-----

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 (%)
1,073.00	1,085.00		0.00	1.00	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 Dt/Tm	Act End Dt/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	12/24/2009 06:00	Surface	17 1/2	150.50	1,085.00

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PBTD's

Date	Type	Depth (mOP)	Total Depth (mOP)	Method	Comment
			1,085.00		

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)
1,085.00	0.29	62.78	1,084.99	1.98	-3.79	0.82	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