

Form MMS 123A/123S - Electronic Version
Application for Revised New Well

Lease G20403 **Area/Block** WR 848 **Well Name** WR001 **ST** 00 **BP** 00 **Well** Exploration
Application Status Approved **Operato** 00276 Exxon Mobil Corporation

Correction Narrative

Current Status: Well TD at 28,842'MD/28,840'TVD
Logging well.

Current Mud Weight: 13.9

Proposed Change: Due to flow from tar sands we propose to run a 9 3/8"
liner.

Proposed Procedure Change:

1. Pick up and RIH with 9 3/8" casing and float equipment.
2. Pick up liner hanger assembly that includes the liner top packer.
3. RIH with liner on drill pipe and set same with shoe at +/-27,400'MD with the linner top at +/-24,529'MD.

NOTE:

There is a change that we will set the liner higher than planned due to interference caused by the tar. If a higher setting depth is required, we will contact the MMS for approval prior setting 9 3/8" liner.

4. Cement the 9 3/8" liner with 140 cu ft of cement and set the liner top packer.
- 5 Pooh with setting tool. No pressure test will be performed.

ATTACHED:
Revised Wellbore Sketch.

Well Design Information modified to reflect change.

General Well Information

API Number 608124002600	Approval Date 12/21/2007	Approved By Ben Coco
Date of Request 12/21/2007	Req Spud 06/23/2007	Kickoff Point N/A
Water Depth (ft.) 7657	Drive Size (in) 36	Mineral Code Hydrocarbon
RKB Elevation 82	Drive Depth 8023	Subsea BOP No
Verbal Approval		Verbal Approval By

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Proposed Well Location

SURFACE LOCATION

LEASE (OCS) G20403	Area/Block WR 848	Authority Federal Lease
Entered NAD 27	Calculated NAD 27 Departures	Calculated NAD 27 X-Y
Lat: 26.12956194	N 3599.0	X 2177694.156183
Lon: -91.36201194	W 7614.0	Y 9484561.104967
Surface Plan	Plan Lease (OCS) G20403	Area/Block WR 848

BOTTOM LOCATION

LEASE (OCS) G20403	Area/Block WR848	
Entered NAD 27	Calculated NAD 27 Departures	Calculated NAD 27 X-Y
Lat: 26.12956194	N 3599.0	X 2177694.156183
Lon: -91.36201194	W 7614.0	Y 9484561.104967
Bottom Plan	Plan Lease (OCS) G20403	Area/Block WR 848

Approval Comments

This Revised Permit is subject to any applicable conditions stated in previous approval(s) for this well.

Please note that the Liner Top Depth was incorrectly entered in for the well desing information section as 27,400 feet. Its actual proposed top is at 24,529 feet as per the wellbore schematic.

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Geologic Information

H2S Designation Unknown	H2S TVD
Anticipated Geologic Markers	
Name	Top MD
Paleocene	27000

Rig Information

RIG SPECIFICATIONS		ANCHORS No	
Rig Name	OCEAN EIRIK RAUDE		
Type	SEMISUBMERSIBLE	ID Number	48878
Function	DRILLING	Constructed	2002
Shipyard	DALAIN, CHINA	Refurbished	
RATED DEPTHS			
Water Depth	10000	Drill Depth	32800
CERTIFICATES			
ABS/DNV	03/26/2008	Coast Guard	01/28/2009
SAFE WELDING AREA			
Approval Date	06/27/2007	District	2.0
Remarks			

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Question Information

Number	Question	Respons	Response Text
1	Will you maintain quantities of mud and mud material (including weight materials and additives) sufficient to raise the entire system mud weight 1/2 ppg or more?	YES	
2	If hydrocarbon-based drilling fluids were used, is the drilling rig outfitted for zero discharge and will zero discharge procedures be followed?	N/A	
3	If drilling the shallow casings strings riserless, will you maintain kill weight mud on the rig and monitor the wellbore with an ROV to ensure that it is not flowing?	YES	
4	If requesting a waiver of the conductor casing, have you submitted a log to MMS G&G that is within 500 feet of the proposed bottom hole location for the proposed surface casing point?	N/A	
5	Will the proposed operation be covered by an EPA Discharge Permit? (please provide permit number in comments for this question)	YES	GMG290070
6	Will all wells in the well bay and related production equipment be shut-in when moving on to or off of an offshore platform, or from well to well on the platform? If not, please explain.	N/A	

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Permit Attachments

File Type	File Description	Status
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Required Attachments

pdf	Proposed Well Location Plat	Attached
pdf	Drilling prognosis and summary of drilling, cementing, and mud processes	Attached
pdf	Directional Program	Attached
pdf	Pore pressure (PP), Mud Weight (MW), and Fracture Gradient (FG) Plot	Attached
pdf	Proposed Wellbore Schematic	Attached
pdf	Engineering Calculation	Attached
pdf	BOP & Diverter Schematics with Operating Procedures	Attached

Contacts Information

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Well Design Information

Interval Number 1		Type Casing			Name Conductor		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Depth (ft) MD TVD	Pore Pressure (ppg)
1	22.0	224.3	X-80	6360.0	3870.0	11000 11000	9.2
GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION	
Hole Size (in)		28.0	Type		Blowout	Annular Test (psi) 5000.0	
Mud Weight (ppg)		9.5	Size (in)		18.75	BOP/Diverter Test 6000.0	
Mud Type Code		Water Base	Wellhead Rating		15000	Test Fluid Weight 10.0	
Fracture Gradient		12.5	Annular Rating (psi)		10000	Casing/Liner Test 3000.0	
Liner Top Depth (ft)		0.0	BOP/Diverter Rating		15000	Formation Test (ppg) 12.5	
Cement Volume (cu		8400.0					

Interval Number 2		Type Casing			Name Surface		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Depth (ft) MD TVD	Pore Pressure (ppg)
1	13.625	88.2	Q125	10030.0	4800.0	23500 23500	10.6
GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION	
Hole Size (in)		18.125	Type		Blowout	Annular Test (psi) 5000.0	
Mud Weight (ppg)		11.0	Size (in)		18.75	BOP/Diverter Test 6500.0	
Mud Type Code		Synthetic	Wellhead Rating		15000	Test Fluid Weight 11.2	
Fracture Gradient		13.7	Annular Rating (psi)		10000	Casing/Liner Test 3500.0	
Liner Top Depth (ft)			BOP/Diverter Rating		15000	Formation Test (ppg) 13.7	
Cement Volume (cu		2200.0					

Interval Number 3		Type Liner			Name Intermediate		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Depth (ft) MD TVD	Pore Pressure (ppg)
1	11.875	71.8	P-110	9430.0	5290.0	24600 24600	12.8
GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION	
Hole Size (in)		14.75	Type		Blowout	Annular Test (psi) 5000.0	
Mud Weight (ppg)		13.3	Size (in)		18.75	BOP/Diverter Test 6500.0	
Mud Type Code		Synthetic	Wellhead Rating		15000	Test Fluid Weight 12.8	
Fracture Gradient		14.8	Annular Rating (psi)		10000	Casing/Liner Test 3500.0	
Liner Top Depth (ft)		22200.0	BOP/Diverter Rating		15000	Formation Test (ppg) 14.6	
Cement Volume (cu		750.0					

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Well Design Information

Interval Number 4		Type Liner		Name Intermediate			
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Depth (ft) MD TVD	Pore Pressure (ppg)
1	9.375	39.0	Q-125	9330.0	3960.0	27400 27400	13.8

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	10.625	Type	Diverter	Annular Test (psi)	5000.0
Mud Weight (ppg)	13.9	Size (in)	18.75	BOP/Diverter Test	6500.0
Mud Type Code	Synthetic	Wellhead Rating	15000	Test Fluid Weight	13.9
Fracture Gradient	15.7	Annular Rating (psi)	10000	Casing/Liner Test	0.0
Liner Top Depth (ft)	27400.0	BOP/Diverter Rating	15000	Formation Test (ppg)	0.0
Cement Volume (cu)	140.0				

Interval Number 5		Type Open Hole		Name Open Hole			
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Depth (ft) MD TVD	Pore Pressure (ppg)
1						30000 30000	13.8

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	10.625	Type	Blowout	Annular Test (psi)	0.0
Mud Weight (ppg)	14.0	Size (in)	18.75	BOP/Diverter Test	0.0
Mud Type Code	Synthetic	Wellhead Rating	15000	Test Fluid Weight	0.0
Fracture Gradient	15.7	Annular Rating (psi)	10000	Casing/Liner Test	0.0
Liner Top Depth (ft)	0.0	BOP/Diverter Rating	15000	Formation Test (ppg)	0.0
Cement Volume (cu)	0.0				

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et seq. Requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 27 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the