

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

Lease G17015 **Area/Block** WR 758 **Well Name** 002 **ST** 00 **BP** 00 **Well** Exploration
Application Status Approved **Operato** 00078 Chevron U.S.A. Inc.

Correction Narrative

Enter temporarily abandoned well and drill to total depth of +/- 29,863' MD/ 29,014' TVD.

Performance properties for 16' HP Q-125 casing is attached. It was not on pick list.

General Well Information

API Number 608124002700	Approval Date 02/08/2008	Approved By Ben Coco
Date of Request 01/11/2008	Req Spud 07/01/2007	Kickoff Point N/A
Water Depth (ft.) 6964	Drive Size (in) 36	Mineral Code Hydrocarbon
RKB Elevation 86	Drive Depth 7360	Subsea BOP Yes
Verbal Approval		Verbal Approval By

Proposed Well Location

SURFACE LOCATION

LEASE (OCS) G17015	Area/Block WR 758	Authority Federal Lease
Entered NAD 27	Calculated NAD 27 Departures	Calculated NAD 27 X-Y
Lat: 26.20776389	N 7188.0	X 2150659.73135
Lon: -91.44338028	E 3580.0	Y 9512652.435879
Surface Plan	Plan Lease (OCS) G17015	Area/Block WR 758

BOTTOM LOCATION

LEASE (OCS) G17015	Area/Block WR 758
Entered NAD 27	Calculated NAD 27 Departures
Lat: 26.204055	S 7250.0
Lon: -91.45732278	W 7705.0
Bottom Plan	Plan Lease (OCS) G17015

Approval Comments

The Revised APD is approved with the following conditions:

Drill with caution due to possible abnormal pressure zone at 24,750 feet TVD; Bright Spots at 21,325 feet and 26,717 feet SS; deep faulting at 273,075 feet SS as listed on the MMS Geological Review. The casing setting depths and cement volume should be considered with respect to said possible hazards.

Hold a prespud meeting with the crew to discuss the drilling plan for the well and above hazards and possible high pressure zones. Hold pit drills and abandon ship drill prior to spudding the well. Maintain good drilling mud properties to drill out of DP and MW adjusted as required to TD of well.

Cement slurry must contain gas migration additives, quick transition time additives, and high compressive strength additives to prevent gas flow after cementing across any gas sands or any referenced shallow hazards. Casing must be centralized in the hole across any gas sands to ensure uniform cement sheath across the sands or any referenced shallow hazards.

The well design is approved as submitted, but during the course of drilling operations the well must be continuously evaluated to ensure that all annuli meet the requirements of 30 CFR 250.420 and 421 and 428 for

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casing and cementing design. You are required to adhere to the cementing requirements as set forth by 30 CFR 250.422 for the resumption of drilling after cementing. Casing shall be tested to the requirements set forth by 30 CFR 250.423 thru 427.

The use of a drill string hang off tool for rig evacuation or to repair major drilling or well control equipment is allowed only until such time as hydrocarbons are present in the open hole. If hydrocarbons are exposed, a downhole safety device such as a cement plug, bridge plug, or packer must be used if time allows.

Please note that if this well is to be completed for production, it must have two strings of casing (liners are not included) to the wellhead. This may be also be accomplished by using a liner with a casing tie-back.

Follow any conditions stipulated in your approved Plans N-7966 and R-4247.

You are required to submit the WAR s per 30 CFR 250.468(b) and the time requirements outlined in NTL No. 2004-G04, as well as enter the as-built casing in the WAR for every wellbore, including each ST and/or BP. The EOR is required to submitted by the time requirements stated in 30 CFR 250.465(b)(3).

All requested departures cited from 30 CFR 250 are acceptable unless stated otherwise. All comments stated apply unless a waiver is approved and documented. Any verbal approval given should be documented in the IADC report on the rig and the submitted WAR.

If it appears that the time of operation is to extend into hurricane season for 2008, you are required to contact the MMS Houma District immediately with an updated operations plan. Be advised that you may be required to submit an RPD with a Mooring Analysis attached.

All operations must be conducted in accordance with the OCS Lands Act (OCSLA), the lease terms and stipulations, the regulations of 30 CFR Part 250, Notices to Lessees and Operators (NTL s), the approved Application for Permit to Drill (APD), and any written instructions or orders of the District Manager.

Notify the MMS Houma District office 24 hours prior to moving onto or off of the location.

Contact me with any questions or concerns.

Ben Coco
Drilling Engineer
MMS Houma District
985-853-5903

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Geologic Information

H2S Designation Absent	H2S TVD
Anticipated Geologic Markers	
Name	Top MD
Top of Salt	8418
Base of Salt	20180
Middle Miocene	22213
Lower Miocene	23166
Oligocene	25552
Wilcox 1	27424
Wilcox 2	28426
Wilcox 3	29245

Rig Information

RIG SPECIFICATIONS		ANCHORS Yes	
Rig Name	DIAMOND OCEAN ENDEAVOR		
Type	SEMISUBMERSIBLE	ID Number	28531
Function	DRILLING	Constructed	1975
Shipyard	AUSTRALIA	Refurbished	
RATED DEPTHS			
Water Depth	10000	Drill Depth	38000
CERTIFICATES			
ABS/DNV	03/30/2012	Coast Guard	06/12/2009
SAFE WELDING AREA			
Approval Date	08/01/2007	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?	YES	
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	GMG290000
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	Proposed Wellbore Schematic	Attached
pdf	Pore pressure (PP), Mud Weight (MW), and Fracture Gradient (FG) Plot	Attached
pdf	Engineering Calculation	Attached
pdf	BOP & Diverter Schematics with Operating Procedures	Attached

Optional/Supplemental Attachments

pdf	Ship Radio License	Attached
pdf	16' HP Q-125 Performance Properties	Attached
pdf	Floater Evacuation Plan	Attached
pdf	Rig Fitness Letter	Attached
pdf	Eddy - Loop Current Operational Plan	Attached
pdf	Open hole logging, mud logging and coring plan	Attached
pdf	Departure List	Attached
pdf	Safe Welding Area Drawing	Attached

Contacts Information

Name	Patricia Bruce
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Phone Number	713-286-5861
E-mail Address	Patricia.Bruce@dvn.com
Contact	Senior Regulatory Specialist
Name	George Mullen
Company	02421 Devon Energy Production Company, L.P.
Phone Number	713-286-5836
E-mail Address	George.Mullen@dvn.com
Contact	Senior Regulatory Specialist

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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	328.3	X-80	9545.0	9457.0	7579. 7579.	9.3
2	22.0	224.0	X-80	6363.0	3876.0	9465. 9465.	9.3
3	22.0	170.0	X-60	3580.0	1820.0	10009 10009	9.3

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	26.0	Type	No Preventers	Annular Test (psi)	4000.0
Mud Weight (ppg)	9.6	Size (in)	N/A	BOP/Diverter Test	4000.0
Mud Type Code	Water Base	Wellhead Rating	0	Test Fluid Weight	9.9
Fracture Gradient	12.2	Annular Rating (psi)	0	Casing/Liner Test	1600.0
Liner Top Depth (ft)	0.0	BOP/Diverter Rating	0	Formation Test (ppg)	12.2
Cement Volume (cu)	3992.0				

Interval Number 2		Type Liner			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	16.0	97.0	HCQ-125	7860.0	2990.0	20338 20114	10.6

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	18.125	Type	Blowout	Annular Test (psi)	5400.0
Mud Weight (ppg)	11.7	Size (in)	18.75	BOP/Diverter Test	5400.0
Mud Type Code	Synthetic	Wellhead Rating	15000	Test Fluid Weight	11.7
Fracture Gradient	12.5	Annular Rating (psi)	10000	Casing/Liner Test	4000.0
Liner Top Depth (ft)	7579.0	BOP/Diverter Rating	15000	Formation Test (ppg)	12.4
Cement Volume (cu)	516.0				

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	13.625	88.2	HCQ-125	10030.0	5930.0	24224 23745	11.3

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Hole Size (in)	17.0	Type	Blowout	Annular Test (psi)	5900.0
Mud Weight (ppg)	11.8	Size (in)	18.75	BOP/Diverter Test	7300.0
Mud Type Code	Synthetic	Wellhead Rating	15000	Test Fluid Weight	11.8
Fracture Gradient	14.1	Annular Rating (psi)	10000	Casing/Liner Test	4000.0
Liner Top Depth (ft)	20135.0	BOP/Diverter Rating	15000	Formation Test (ppg)	13.9
Cement Volume (cu)	647.0				

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	11.875	58.8	HCQ-125	8660.0	3760.0	26792 26144	13.1

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	13.5	Type	Blowout	Annular Test (psi)	5300.0
Mud Weight (ppg)	13.4	Size (in)	18.75	BOP/Diverter Test	8800.0
Mud Type Code	Synthetic	Wellhead Rating	15000	Test Fluid Weight	13.4
Fracture Gradient	14.9	Annular Rating (psi)	10000	Casing/Liner Test	2000.0
Liner Top Depth (ft)	23956.0	BOP/Diverter Rating	15000	Formation Test (ppg)	14.8
Cement Volume (cu)	675.0				

Interval Number 5		Type Liner		Name Production			
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Depth (ft) MD TVD	Pore Pressure (ppg)
1	10.125	79.0	Q-125	18180.0	17650.0	29863 29014	14.0

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	12.25	Type	Blowout	Annular Test (psi)	5000.0
Mud Weight (ppg)	14.2	Size (in)	18.75	BOP/Diverter Test	8800.0
Mud Type Code	Synthetic	Wellhead Rating	15000	Test Fluid Weight	14.2
Fracture Gradient	15.3	Annular Rating (psi)	10000	Casing/Liner Test	1000.0
Liner Top Depth (ft)	23848.0	BOP/Diverter Rating	15000	Formation Test (ppg)	0.0
Cement Volume (cu)	836.0				

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