

Form MMS 123A/123S - Electronic Version

Application for Sidetrack

Lease G16942 **Area/Block** WR 29 **Well Name** 003 **ST** 02 **BP** 00 **Well** Exploration
Application Status Approved **Operato** 00078 **Chevron U.S.A. Inc.**

General Well Information

API Number 608124002302	Approval Date 11/30/2007	Approved By Ben Coco
Date of Request 11/29/2007	Req Spud 12/01/2007	Kickoff Point 18726.0
Water Depth (ft.) 5232	Drive Size (in) 36	Mineral Code Hydrocarbon
RKB Elevation 72	Drive Depth 5614	Subsea BOP Yes
Verbal Approval		Verbal Approval By

Proposed Well Location

SURFACE LOCATION

LEASE (OCS) G16942	Area/Block WR 29	Authority Federal Lease
Entered NAD 27	Calculated NAD 27 Departures	Calculated NAD 27 X-Y
Lat: 26.94027194	N 5570.0	X 2442190.027555
Lon: -90.53865333	W 2830.0	Y 9783550.027868
Surface Plan	Plan Lease (OCS)	Area/Block null

BOTTOM LOCATION

LEASE (OCS) G16942	Area/Block WR29
Entered NAD 27	Calculated NAD 27 Departures
Lat: 26.93756389	N 6486.0
Lon: -90.52790556	W 6352.0
Bottom Plan	Plan Lease (OCS)
Area/Block	null

Approval Comments

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.

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

Contact me with any questions or concerns.

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

Form MMS 123A/123S - Electronic Version

Application for Sidetrack

Lease G16942 **Area/Block** WR 29 **Well Name** 003 **ST** 02 **BP** 00 **Well** Exploration
Application Status Approved **Operato** 00078 Chevron U.S.A. Inc.

Geologic Information

H2S Designation Absent	H2S TVD
Anticipated Geologic Markers	
Name	Top MD
Ash Bed	22321
Green Sand	23114
Maroon Sand	24599

Rig Information

RIG SPECIFICATIONS		ANCHORS No
Rig Name	ENSCO 7500	
Type	SEMISUBMERSIBLE	ID Number 99908
Function		Constructed 2000
Shipyard		Refurbished
RATED DEPTHS		
Water Depth 8100	Drill Depth	30000
CERTIFICATES		
ABS/DNV 12/31/2010	Coast Guard	02/10/2011
SAFE WELDING AREA		
Approval Date 10/31/2000	District	4.0
Remarks		

Form MMS 123A/123S - Electronic Version

Application for Sidetrack

Lease G16942 **Area/Block** WR 29 **Well Name** 003 **ST** 02 **BP** 00 **Well** Exploration
Application Status Approved **Operato** 00078 Chevron U.S.A. Inc.

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?	N/A	
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	GMG290132
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	

Form MMS 123A/123S - Electronic Version

Application for Sidetrack

Lease G16942 **Area/Block** WR 29 **Well Name** 003 **ST** 02 **BP** 00 **Well** Exploration
Application Status Approved **Operato** 00078 Chevron U.S.A. Inc.

Permit Attachments

File Type	File Description	Status
-----------	------------------	--------

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

Optional/Supplemental Attachments

pdf	Directional Plot	Attached
pdf	Diverter Schematic	Attached

Contacts Information

Name	Arifun Djamil
Company	00078 Chevron U.S.A. Inc.
Phone Number	832-854-3345
E-mail Address	Arifun.Djamil@chevron.com
Contact	Operations Engineer
Name	John Connor
Company	00078 Chevron U.S.A. Inc.
Phone Number	832-854-3659
E-mail Address	JohnConnor@chevron.com
Contact	Drilling Superintendent
Name	Debbie Campise
Company	00078 Chevron U.S.A. Inc.
Phone Number	832-854-2617
E-mail Address	cmps@chevron.com
Contact	Drilling Engr. Asst.

Form MMS 123A/123S - Electronic Version

Application for Sidetrack

Lease G16942 **Area/Block** WR 29 **Well Name** 003 **ST** 02 **BP** 00 **Well** Exploration
Application Status Approved **Operato** 00078 **Chevron U.S.A. Inc.**

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	5548. 5548.	0.0
2	22.0	224.3	X-80	6360.0	3870.0	5920. 5920.	0.0
3	22.0	170.2	X-60	3668.0	1853.0	8531. 8531.	10.5

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	26.0	Type	Blowout	Annular Test (psi)	5000.0
Mud Weight (ppg)	10.8	Size (in)	18.75	BOP/Diverter Test	6800.0
Mud Type Code	Water Base	Wellhead Rating	15000	Test Fluid Weight	8.6
Fracture Gradient	12.5	Annular Rating (psi)	10000	Casing/Liner Test	1700.0
Liner Top Depth (ft)	0.0	BOP/Diverter Rating	15000	Formation Test (ppg)	12.0
Cement Volume (cu	8445.0				

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	14000 14000	11.2

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	18.125	Type	Blowout	Annular Test (psi)	5000.0
Mud Weight (ppg)	11.4	Size (in)	18.75	BOP/Diverter Test	6800.0
Mud Type Code	Synthetic	Wellhead Rating	15000	Test Fluid Weight	11.4
Fracture Gradient	14.8	Annular Rating (psi)	10000	Casing/Liner Test	4300.0
Liner Top Depth (ft)	5548.0	BOP/Diverter Rating	15000	Formation Test (ppg)	14.0
Cement Volume (cu	210.0				

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	HC Q125	10030.0	6370.0	20500 20500	11.2

Form MMS 123A/123S - Electronic Version

Application for Sidetrack

Lease G16942 **Area/Block** WR 29 **Well Name** 003 **ST** 02 **BP** 00 **Well** Exploration
Application Status Approved **Operato** 00078 **Chevron U.S.A. Inc.**

Well Design Information

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	16.5	Type	Blowout	Annular Test (psi)	5000.0
Mud Weight (ppg)	11.8	Size (in)	18.75	BOP/Diverter Test	6800.0
Mud Type Code	Synthetic	Wellhead Rating	15000	Test Fluid Weight	11.8
Fracture Gradient	14.2	Annular Rating (psi)	10000	Casing/Liner Test	2700.0
Liner Top Depth (ft)	13500.0	BOP/Diverter Rating	15000	Formation Test (ppg)	14.0
Cement Volume (cu	1780.0				

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	71.8	Q-125HC	10720.0	7160.0	24333 23272	11.3

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	13.5	Type	Blowout	Annular Test (psi)	6800.0
Mud Weight (ppg)	12.6	Size (in)	18.75	BOP/Diverter Test	6800.0
Mud Type Code	Synthetic	Wellhead Rating	15000	Test Fluid Weight	11.8
Fracture Gradient	13.3	Annular Rating (psi)	10000	Casing/Liner Test	2050.0
Liner Top Depth (ft)	18600.0	BOP/Diverter Rating	15000	Formation Test (ppg)	13.3
Cement Volume (cu	113.0				

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						25133	23872	11.4	

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	10.625	Type	Blowout	Annular Test (psi)	6800.0
Mud Weight (ppg)	11.8	Size (in)	18.75	BOP/Diverter Test	6800.0
Mud Type Code	Synthetic	Wellhead Rating	15000	Test Fluid Weight	0.0
Fracture Gradient	13.7	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				

Form MMS 123A/123S - Electronic Version

Application for Sidetrack

Lease	G16942	Area/Block	WR 29	Well Name	003	ST	02	BP	00	Well	Exploration
Application Status	Approved		Operato	00078	Chevron U.S.A. Inc.						

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 2? 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