

Form MMS 123A/123S - Electronic Version
Application for Permit to Drill a New Well

Lease G23018 **Area/Block** AT 138 **Well Name** 001 **ST** 00 **BP** 00 **Well** Exploration
Application Status Approved **Operato** 00078 Chevron U.S.A. Inc.

General Well Information

API Number 608184006800	Approval Date 02/04/2008	Approved By David Trocquet
Date of Request 12/18/2007	Req Spud 01/10/2008	Kickoff Point N/A
Water Depth (ft.) 3490	Drive Size (in) 36	Mineral Code Hydrocarbon
RKB Elevation 72	Drive Depth 3880	Subsea BOP Yes
Verbal Approval		Verbal Approval By

Proposed Well Location

SURFACE LOCATION

LEASE (OCS) G23018	Area/Block AT 138	Authority Federal Lease
Entered NAD 27	Calculated NAD 27 Departures	Calculated NAD 27 X-Y
Lat: 27.80131333	S 7744.0	X 786387.024469
Lon: -89.64208444	E 5613.0	Y 1.0097824014533E7
Surface Plan	Plan Lease (OCS) G23018	Area/Block AT 138

BOTTOM LOCATION

LEASE (OCS) G23018	Area/Block AT 138
Entered NAD 27	Calculated NAD 27 Departures
Lat: 27.80131333	S 7744.0
Lon: -89.64208444	E 5613.0
Bottom Plan	Plan Lease (OCS) G23018

Approval Comments

Debbie,

The APD is approved with the following cautions/conditions:

1. Caution for possible shallow gas and a low potential shallow water flow at 942-1313 ft bml.
2. Caution for a shallow faults at 1313 ft, 2443 ft, and 2688 ft bml.
3. 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.
4. Please be reminded that an APM should be submitted with a final surveyed surface location plat (in NAD 83), KB, and water depth as soon as they are determined.

Thanks,
David Trocquet

Form MMS 123A/123S - Electronic Version

Application for Permit to Drill a New Well

Lease G23018 Area/Block AT 138 Well Name 001 ST 00 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	
Base Salt		2467	
Top Salt		6807	
10.8 CCL MP		23882	
13.5 SPTHM		26362	
18.0 SB		28749	

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 Permit to Drill a New Well

Lease G23018 **Area/Block** AT 138 **Well Name** 001 **ST** 00 **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?	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	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 Permit to Drill a New Well

Lease G23018 **Area/Block** AT 138 **Well Name** 001 **ST** 00 **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	Engineering Calculation	Attached
pdf	BOP & Diverter Schematics with Operating Procedures	Attached
pdf	Proposed Wellbore Schematic	Attached

Optional/Supplemental Attachments

pdf	Floater Evacuation Plan	Attached
pdf	U.S. Coast Guard Certificate	Attached
pdf	ABS/DNV Certificate	Attached

Contacts Information

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	Christine Beiriger
Company	00078 Chevron U.S.A. Inc.
Phone Number	832-854-4012
E-mail Address	cbei@chevron.com
Contact	Operations Engineer
Name	Tri Karunoputro
Company	00078 Chevron U.S.A. Inc.
Phone Number	832-854-4695
E-mail Address	trikaru@chevron.com
Contact	Operations Engineer

Form MMS 123A/123S - Electronic Version
Application for Permit to Drill a New Well

Lease G23018 **Area/Block** AT 138 **Well Name** 001 **ST** 00 **BP** 00 **Well** Exploration
Application Status Approved **Operato** 00078 Chevron U.S.A. Inc.

Contacts Information

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 Permit to Drill a New Well

Lease G23018 Area/Block AT 138 Well Name 001 ST 00 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	28.0	218.0	X-52	2437.0	952.0	4350. 4350.	8.6
GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION	
Hole Size (in)	32.0	Type	No Preventers			Annular Test (psi)	0.0
Mud Weight (ppg)	0.0	Size (in)	N/A			BOP/Diverter Test	0.0
Mud Type Code	Gelled Sea	Wellhead Rating	0			Test Fluid Weight	0.0
Fracture Gradient	0.0	Annular Rating (psi)	0			Casing/Liner Test	0.0
Liner Top Depth (ft)	0.0	BOP/Diverter Rating	0			Formation Test (ppg)	0.0
Cement Volume (cu	1031.0						

Interval Number 2		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	23.0	448.0	X-80	12170.0	12700.0	3602.	3602.	8.6
2	22.0	328.3	X-80	9545.0	9457.0	3640.	3640.	8.6
3	22.0	224.3	X-80	6360.0	3870.0	4442.	4442.	8.6
4	22.0	170.2	X-60	3668.0	1853.0	6300.	6300.	11.2
GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION		
Hole Size (in)	26.0		Type	Blowout		Annular Test (psi)		7500.0
Mud Weight (ppg)	11.6		Size (in)	18.75		BOP/Diverter Test		11000.0
Mud Type Code	Water Base		Wellhead Rating	15000		Test Fluid Weight		8.6
Fracture Gradient	11.9		Annular Rating (psi)	10000		Casing/Liner Test		2600.0
Liner Top Depth (ft)	0.0		BOP/Diverter Rating	15000		Formation Test (ppg)		11.9
Cement Volume (cu	2867.0							

Interval Number 3		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	18.0	117.0	P-110	6680.0	2110.0	6300. 6300.	11.2
2	17.875	93.5	P-110	5380.0	1270.0	7800. 7800.	11.5

Form MMS 123A/123S - Electronic Version

Application for Permit to Drill a New Well

Lease G23018 **Area/Block** AT 138 **Well Name** 001 **ST** 00 **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)	21.0	Type	Blowout	Annular Test (psi)	7000.0
Mud Weight (ppg)	11.6	Size (in)	18.75	BOP/Diverter Test	5100.0
Mud Type Code	Synthetic	Wellhead Rating	15000	Test Fluid Weight	11.6
Fracture Gradient	14.5	Annular Rating (psi)	10000	Casing/Liner Test	2600.0
Liner Top Depth (ft)	5800.0	BOP/Diverter Rating	15000	Formation Test (ppg)	14.5
Cement Volume (cu	1126.0				

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	16.04	109.6	HCQ-	10385.0	4160.0	7000. 7000.	11.1
2	16.0	97.0	HCQ-125	7860.0	2990.0	15500 15500	14.0

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	19.0	Type	Blowout	Annular Test (psi)	7000.0
Mud Weight (ppg)	14.2	Size (in)	18.75	BOP/Diverter Test	11000.0
Mud Type Code	Synthetic	Wellhead Rating	15000	Test Fluid Weight	14.2
Fracture Gradient	16.4	Annular Rating (psi)	10000	Casing/Liner Test	6000.0
Liner Top Depth (ft)	3602.0	BOP/Diverter Rating	15000	Formation Test (ppg)	16.3
Cement Volume (cu	286.0				

Interval Number		5		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	22000	22000	15.4

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	16.5	Type	Blowout	Annular Test (psi)	7000.0
Mud Weight (ppg)	15.5	Size (in)	18.75	BOP/Diverter Test	11000.0
Mud Type Code	Synthetic	Wellhead Rating	15000	Test Fluid Weight	15.5
Fracture Gradient	16.7	Annular Rating (psi)	10000	Casing/Liner Test	2300.0
Liner Top Depth (ft)	15200.0	BOP/Diverter Rating	15000	Formation Test (ppg)	16.7
Cement Volume (cu	236.0				

Interval Number		6		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)

Form MMS 123A/123S - Electronic Version

Application for Permit to Drill a New Well

Lease G23018 **Area/Block** AT 138 **Well Name** 001 **ST** 00 **BP** 00 **Well** Exploration
Application Status Approved **Operato** 00078 Chevron U.S.A. Inc.

Well Design Information

1	11.875	71.8	HCQ125	10720.0	7190.0	26000 26000	15.5
GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION	
Hole Size (in)	13.5		Type	Blowout		Annular Test (psi)	7000.0
Mud Weight (ppg)	15.6		Size (in)	18.75		BOP/Diverter Test	11000.0
Mud Type Code	Synthetic		Wellhead Rating	15000		Test Fluid Weight	15.6
Fracture Gradient	17.2		Annular Rating (psi)	10000		Casing/Liner Test	2100.0
Liner Top Depth (ft)	21700.0		BOP/Diverter Rating	15000		Formation Test (ppg)	17.0
Cement Volume (cu	112.0						

Interval Number 7		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						31150 31150	16.0
GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION	
Hole Size (in)	10.625		Type	Blowout		Annular Test (psi)	7000.0
Mud Weight (ppg)	16.2		Size (in)	18.75		BOP/Diverter Test	11000.0
Mud Type Code	Synthetic		Wellhead Rating	15000		Test Fluid Weight	0.0
Fracture Gradient	0.0		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 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