

Form MMS 123A/123S - Electronic Version

Application for Bypass

Lease G23018 **Area/Block** AT 138 **Well Name** 001 **ST** 00 **BP** 01 **Well Type** Exploration
Application Status Approved **Operato** 00078 **Operator** Chevron U.S.A. Inc.

General Well Information

API Number 608184006801	Approval Date 06/07/2008	Approved By David Trocquet
Date of Request 05/29/2008	Req Spud Date 05/30/2008	Kickoff Point 22190.0
Water Depth (ft.) 3490	Drive Size (in) 36	Mineral Code Hydrocarbon
RKB Elevation 72	Drive Depth 3880	Subsea BOP Yes
Verbal Approval Date 05/28/2008	Verbal Approval By David Trocquet	

Proposed Well Location

SURFACE LOCATION

LEASE (OCS) G23018	Area/Block AT 138	Authority Federal Lease
Entered NAD 27 Data	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)	Area/Block null

BOTTOM LOCATION

LEASE (OCS) G23018	Area/Block AT 138	
Entered NAD 27 Data	Calculated NAD 27 Departures	Calculated NAD 27 X-Y
Lat: 27.80103389	S 7642.0	X 786402.800796
Lon: -89.64202889	E 5597.0	Y 1.009772201523E7
Bottom Plan	Plan Lease (OCS)	Area/Block null

Approval Comments

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Geologic Information

H2S Designation Absent	H2S TVD
Anticipated Geologic Markers	
Name	Top MD
Base of Salt	20404

Rig Information

RIG SPECIFICATIONS		ANCHORS No	
Rig Name	ENSCO 7500		
Type	SEMISUBMERSIBLE	ID Number	99908
Function		Constructed Year	2000
Shipyard		Refurbished Year	
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			

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Question Information

Number	Question	Response	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	

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Permit Attachments

File Type	File Description	Status
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Required Attachments

pdf	Drilling prognosis and summary of drilling, cementing, and mud processes	Attached
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Optional/Supplemental Attachments

pdf	Directional Program	Attached
pdf	Bottom Hole Location Plat	Attached
pdf	Wellbore Schematic	Attached
pdf	Engineering Calculations	Attached

Contacts Information

Name	John Connor
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Phone Number	832-854-3659
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Contact	Drilling Superintendent
Name	Christine Beiriger
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Contact	Operations Engineer
Name	Tri Karunoputro
Company	00078 Chevron U.S.A. Inc.
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Contact	Operations Engineer
Name	Debbie Campise
Company	00078 Chevron U.S.A. Inc.
Phone Number	832-854-2617
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Contact	Drilling Engr. Asst.

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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 (psi)	Collapse Rating (psi)	Depth (ft) MD TVD	Pore Pressure (ppg)
1	28.0	218.0	X-52	2437.0	952.0	4310. 4310.	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 (psi)	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 ft)	1031.0						

Interval Number 2			Type Casing		Name Conductor		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	Collapse Rating (psi)	Depth (ft) MD TVD	Pore Pressure (ppg)
1	23.0	448.0	X-80	12170.0	12700.0	3590. 3590.	8.6
2	22.0	328.3	X-80	9545.0	9457.0	3630. 3630.	8.6
3	22.0	224.3	X-80	6360.0	3870.0	4434. 4434.	8.6
4	22.0	170.2	X-60	3668.0	1853.0	6287. 6287.	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 (psi)	15000		Test Fluid Weight	8.6
Fracture Gradient	11.9		Annular Rating (psi)	10000		Casing/Liner Test	2500.0
Liner Top Depth (ft)	0.0		BOP/Diverter Rating	15000		Formation Test (ppg)	11.9
Cement Volume (cu ft)	2867.0						

Interval Number 3			Type Liner		Name Surface		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	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	7782. 7782.	11.5

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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	11000.0
Mud Type Code	Synthetic	Wellhead Rating (psi)	15000	Test Fluid Weight	11.3
Fracture Gradient	14.5	Annular Rating (psi)	10000	Casing/Liner Test	2000.0
Liner Top Depth (ft)	5800.0	BOP/Diverter Rating	15000	Formation Test (ppg)	14.5
Cement Volume (cu ft)	1126.0				

Interval Number 4		Type Liner		Name Intermediate			
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	Collapse Rating (psi)	Depth (ft) MD TVD	Pore Pressure (ppg)
1	16.04	109.6	HCQ-	10385.0	4160.0	7094. 7094.	11.1
2	16.0	97.0	HCQ-125	7860.0	2990.0	15466 15466	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 (psi)	15000	Test Fluid Weight	13.6
Fracture Gradient	16.4	Annular Rating (psi)	10000	Casing/Liner Test	6100.0
Liner Top Depth (ft)	3602.0	BOP/Diverter Rating	15000	Formation Test (ppg)	16.3
Cement Volume (cu ft)	286.0				

Interval Number		5		Type	Liner	Name		Intermediate
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	Collapse Rating (psi)	Depth (ft) MD	TVD	Pore Pressure (ppg)
1	13.625	88.2	HCQ-125	10030.0	5930.0	20666	20666	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 (psi)	15000	Test Fluid Weight	15.8
Fracture Gradient	16.7	Annular Rating (psi)	10000	Casing/Liner Test	1900.0
Liner Top Depth (ft)	15200.0	BOP/Diverter Rating	15000	Formation Test (ppg)	16.7
Cement Volume (cu ft)	236.0				

Interval Number 6		Type Liner		Name Intermediate			
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	Collapse Rating (psi)	Depth (ft) MD TVD	Pore Pressure (ppg)

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1	11.875	71.8	HCQ125	10720.0	7190.0	22190 22190	15.8
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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 (psi)	15000		Test Fluid Weight	15.8
Fracture Gradient	17.2		Annular Rating (psi)	10000		Casing/Liner Test	2100.0
Liner Top Depth (ft)	20436.0		BOP/Diverter Rating	15000		Formation Test (ppg)	16.4
Cement Volume (cu ft)	112.0						

Interval Number 7			Type Liner			Name Intermediate	
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Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	Collapse Rating (psi)	Depth (ft) MD TVD	Pore Pressure (ppg)
1	9.625	36.0	SET	4550.0	1570.0	24674 24670	16.0

GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION	
Hole Size (in)	12.25		Type	Blowout		Annular Test (psi)	7000.0
Mud Weight (ppg)	15.9		Size (in)	18.75		BOP/Diverter Test	11400.0
Mud Type Code	Synthetic		Wellhead Rating (psi)	15000		Test Fluid Weight	16.0
Fracture Gradient	16.8		Annular Rating (psi)	10000		Casing/Liner Test	1600.0
Liner Top Depth (ft)	22050.0		BOP/Diverter Rating	15000		Formation Test (ppg)	16.8
Cement Volume (cu ft)	104.0						

Interval Number 8			Type Liner			Name Intermediate	
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Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	Collapse Rating (psi)	Depth (ft) MD TVD	Pore Pressure (ppg)
1	9.375	39.0	HCQ-125	9330.0	4850.0	27004 27000	16.3

GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION	
Hole Size (in)	11.375		Type	Blowout		Annular Test (psi)	7000.0
Mud Weight (ppg)	16.3		Size (in)	18.75		BOP/Diverter Test	11400.0
Mud Type Code	Synthetic		Wellhead Rating (psi)	15000		Test Fluid Weight	16.3
Fracture Gradient	17.2		Annular Rating (psi)	10000		Casing/Liner Test	1200.0
Liner Top Depth (ft)	21950.0		BOP/Diverter Rating	15000		Formation Test (ppg)	17.0
Cement Volume (cu ft)	113.0						

Interval Number 9			Type Open Hole			Name Open Hole	
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Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	Collapse Rating (psi)	Depth (ft) MD TVD	Pore Pressure (ppg)
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Well Design Information

1						31150	31150	16.3
GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION		
Hole Size (in)	8.5	Type	Blowout		Annular Test (psi)	7000.0		
Mud Weight (ppg)	16.3	Size (in)	18.75		BOP/Diverter Test	11400.0		
Mud Type Code	Synthetic	Wellhead Rating (psi)	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 ft)	0.0							

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