

**Form MMS 123A/123S - Electronic Version**  
**Application for Revised 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.

**Correction Narrative**

The 11-7/8" casing will be tested to 2100 psi with a mud weight of 15.8 ppg, instead of 15.6 ppg SBM. Also, the casing will be set at 22,841' MD/TVD.

Revised Attachments:  
Drilling Prognosis  
Engr. Calculations (11-7/8" Casing Test Calculations)

**General Well Information**

<b>API Number</b> 608184006800	<b>Approval Date</b> 05/02/2008	<b>Approved By</b> David Trocquet
<b>Date of Request</b> 05/01/2008	<b>Req Spud</b> 01/10/2008	<b>Kickoff Point</b> N/A
<b>Water Depth (ft.)</b> 3490	<b>Drive Size (in)</b> 36	<b>Mineral Code</b> Hydrocarbon
<b>RKB Elevation</b> 72	<b>Drive Depth</b> 3880	<b>Subsea BOP</b> Yes
<b>Verbal Approval</b>	<b>Verbal Approval By</b>	

**Proposed Well Location**

**SURFACE LOCATION**

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

**BOTTOM LOCATION**

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

**Approval Comments**

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**Geologic Information**

<b>H2S Designation</b> Absent	<b>H2S TVD</b>
<b>Anticipated Geologic Markers</b>	
<b>Name</b>	<b>Top MD</b>
Top Salt	6807
10.8 CCL MP	23882
13.5 SPTHM	26362
Base Salt	2467
18.0 SB	28749

**Rig Information**

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

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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	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	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**

<b>Name</b>	Debbie Campise
<b>Company</b>	00078 Chevron U.S.A. Inc.
<b>Phone Number</b>	832-854-2617
<b>E-mail Address</b>	cmps@chevron.com
<b>Contact</b>	Drilling Engr. Asst.
<b>Name</b>	Tri Karunoputro
<b>Company</b>	00078 Chevron U.S.A. Inc.
<b>Phone Number</b>	832-854-4695
<b>E-mail Address</b>	trikaru@chevron.com
<b>Contact</b>	Operations Engineer
<b>Name</b>	Christine Beiriger
<b>Company</b>	00078 Chevron U.S.A. Inc.
<b>Phone Number</b>	832-854-4012
<b>E-mail Address</b>	cbei@chevron.com
<b>Contact</b>	Operations Engineer

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**Application Status**    Approved    **Operato**    00078    Chevron U.S.A. Inc.

**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		

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### Application for Revised New Well

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**Application Status** Approved **Operato** 00078 **Operator** 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		2500.0
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

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### 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	11000.0
Mud Type Code	Synthetic	Wellhead Rating	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	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	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	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	20890 20890	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	15.8
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	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)

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1	11.875	71.8	HCQ125	10720.0	7190.0	22841 22841	15.5
<b>GENERAL INFORMATION</b>			<b>PREVENTER INFORMATION</b>			<b>TEST INFORMATION</b>	
<b>Hole Size (in)</b>	13.5		<b>Type</b>	Blowout		<b>Annular Test (psi)</b>	7000.0
<b>Mud Weight (ppg)</b>	15.6		<b>Size (in)</b>	18.75		<b>BOP/Diverter Test</b>	11000.0
<b>Mud Type Code</b>	Synthetic		<b>Wellhead Rating</b>	15000		<b>Test Fluid Weight</b>	15.8
<b>Fracture Gradient</b>	17.2		<b>Annular Rating (psi)</b>	10000		<b>Casing/Liner Test</b>	2100.0
<b>Liner Top Depth (ft)</b>	20436.0		<b>BOP/Diverter Rating</b>	15000		<b>Formation Test (ppg)</b>	17.0
<b>Cement Volume (cu</b>	112.0						

<b>Interval Number</b> 7		<b>Type</b> Open Hole				<b>Name</b> Open Hole	
<b>Section Number</b>	<b>Casing Size (in)</b>	<b>Casing Weight (lb/ft)</b>	<b>Casing Grade</b>	<b>Burst Rating</b>	<b>Collapse Rating (psi)</b>	<b>Depth (ft) MD TVD</b>	<b>Pore Pressure (ppg)</b>
1						31150 31150	16.0
<b>GENERAL INFORMATION</b>			<b>PREVENTER INFORMATION</b>			<b>TEST INFORMATION</b>	
<b>Hole Size (in)</b>	10.625		<b>Type</b>	Blowout		<b>Annular Test (psi)</b>	7000.0
<b>Mud Weight (ppg)</b>	16.2		<b>Size (in)</b>	18.75		<b>BOP/Diverter Test</b>	11000.0
<b>Mud Type Code</b>	Synthetic		<b>Wellhead Rating</b>	15000		<b>Test Fluid Weight</b>	0.0
<b>Fracture Gradient</b>	0.0		<b>Annular Rating (psi)</b>	10000		<b>Casing/Liner Test</b>	0.0
<b>Liner Top Depth (ft)</b>	0.0		<b>BOP/Diverter Rating</b>	15000		<b>Formation Test (ppg)</b>	0.0
<b>Cement Volume (cu</b>	0.0						

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