

## 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 16" casing was tested to 6100 psi with 13.6 ppg mud weight, which is equivalent to 6000 psi with 14.2 ppg MW which was assumed for the APD.

Also, after setting the 18" x 17 7/8" casing, the BOPE's were tested to 11,000 psi for the rams, rather than 5100 psi as stated in the APD.

Revised Attachments:  
Drilling Prognosis  
Engr. Calculations (16" Casing Test Calculations)

#### General Well Information

<b>API Number</b> 608184006800	<b>Approval Date</b> 04/08/2008	<b>Approved By</b> David Trocquet
<b>Date of Request</b> 03/24/2008	<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
Base Salt	2467
10.8 CCL MP	23882
13.5 SPTHM	26362
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>	Christine Beiriger
<b>Company</b>	00078      Chevron U.S.A. Inc.
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<b>E-mail Address</b>	cbei@chevron.com
<b>Contact</b>	Operations Engineer
<b>Name</b>	John Connor
<b>Company</b>	00078      Chevron U.S.A. Inc.
<b>Phone Number</b>	832-854-3659
<b>E-mail Address</b>	JohnConnor@chevron.com
<b>Contact</b>	Drilling Superintendent
<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.

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

**Contacts Information**

<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

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### 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 **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	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)

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### Well Design Information

1	11.875	71.8	HCQ125	10720.0	7190.0	26000 26000	15.5
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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	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				

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