

**Form MMS 123A/123S - Electronic Version**

**Application for Bypass**

**Lease** G23018 **Area/Block** AT 138 **Well Name** 001 **ST** 00 **BP** 02 **Well Type** Exploration  
**Application Status** Approved **Operato** 00078 **Operator** Chevron U.S.A. Inc.

**General Well Information**

<b>API Number</b> 608184006802	<b>Approval Date</b> 07/02/2008	<b>Approved By</b> David Trocquet
<b>Date of Request</b> 06/30/2008	<b>Req Spud Date</b> 06/30/2008	<b>Kickoff Point</b> 22025.0
<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 Date</b> 06/27/2008	<b>Verbal Approval By</b> David Trocquet	

**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 Data</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>	<b>Area/Block</b> null

**BOTTOM LOCATION**

<b>LEASE (OCS)</b> G23018	<b>Area/Block</b> AT 138	
<b>Entered NAD 27 Data</b>	<b>Calculated NAD 27 Departures</b>	<b>Calculated NAD 27 X-Y</b>
<b>Lat:</b> 27.80128167	S 7730.0	<b>X</b> 786494.384952
<b>Lon:</b> -89.64175167	E 5506.0	<b>Y</b> 1.0097810186122E7
<b>Bottom Plan</b>	<b>Plan Lease (OCS)</b>	<b>Area/Block</b> null

**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>
Base Salt	20404

**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 Year</b>	2000
<b>Shipyard</b>		<b>Refurbished Year</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	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?	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	

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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	Wellbore Schematic	Attached
pdf	Directional Plan	Attached
pdf	Engineering Calculations	Attached
pdf	Lease Block Calls	Attached

**Contacts Information**

<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.
<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
<b>Name</b>	Tri Karunoputro
<b>Company</b>	00078      Chevron U.S.A. Inc.
<b>Phone Number</b>	832-854-4695
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<b>Contact</b>	Operations Engineer

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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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**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 (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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**Well Design Information**

1	11.875	71.8	HCQ125	10720.0	7190.0	22025 22025	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)	15.8		Size (in)	18.75		BOP/Diverter Test	11000.0
Mud Type Code	Synthetic		Wellhead Rating (psi)	15000		Test Fluid Weight	15.8
Fracture Gradient	16.2		Annular Rating (psi)	10000		Casing/Liner Test	1900.0
Liner Top Depth (ft)	20436.0		BOP/Diverter Rating	15000		Formation Test (ppg)	16.2
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	9.375	39.0	HCQ-125	9330.0	4850.0	24675 24670	15.9

GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION	
Hole Size (in)	10.625		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)	21725.0		BOP/Diverter Rating	15000		Formation Test (ppg)	16.8
Cement Volume (cu ft)	68.0						

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	7.625	29.7	EX-80	5630.0	3150.0	27000 26995	16.3

GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION	
Hole Size (in)	9.875		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)	24375.0		BOP/Diverter Rating	15000		Formation Test (ppg)	17.0
Cement Volume (cu ft)	72.0						

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 31145	16.3
<b>GENERAL INFORMATION</b>			<b>PREVENTER INFORMATION</b>			<b>TEST INFORMATION</b>	
<b>Hole Size (in)</b>	8.5	<b>Type</b>	Blowout		<b>Annular Test (psi)</b>	7000.0	
<b>Mud Weight (ppg)</b>	16.3	<b>Size (in)</b>	18.75		<b>BOP/Diverter Test</b>	11400.0	
<b>Mud Type Code</b>	Synthetic	<b>Wellhead Rating (psi)</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 ft)</b>	0.0						

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