

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

Lease G22802 **Area/Block** MP 207 **Well Name** A003 **ST** 00 **BP** 00 **Well Type** Development
Application Status Approved **Operator** 02579 Tana Exploration Company LLC

Pay.gov **Agency** **Pay.gov**
Amount: \$1,959 **Tracking ID:** EWL-APD-11011 **Tracking ID:** 254SGJR2

General Well Information

API Number 177244095800	Approval Date 01/25/2012	Approved By David Trocquet
Date of Request 11/07/2011	Req Spud Date 12/15/2011	Kickoff Point N/A
Water Depth (ft.) 174	Drive Size (in) 24	Mineral Code Hydrocarbon
RKB Elevation 100	Drive Depth (ft.) 500	Subsea BOP No
Verbal Approval Date		Verbal Approval By

Proposed Well Location

Surface Location

LEASE (OCS) G22802	Area/Block MP 207	Authority Federal Lease
Entered NAD 27 Data	Calculated NAD 27 Departures	Calculated NAD 27 X-Y Coordinates
Lat: 29.46419139	N 6710	X 2889585.956278
Lon: -88.53771361	W 3486	Y 300870.065932
Surface Plan R 5437	Plan Lease (OCS) G22802	Area/Block MP 207

Bottom Location

LEASE (OCS) G22802	Area/Block MP 207	
Entered NAD 27 Data	Calculated NAD 27 Departures	Calculated NAD 27 X-Y Coordinates
Lat: 29.47322417	N 3358	X 2892300.027022
Lon: -88.52893	W 6200	Y 304222.008089
Bottom Plan R 5437	Plan Lease (OCS) G22802	Area/Block MP 207

Approval Comments This permit is approved with the following conditions/cautions:

1. You must have the most current set of approved BOP drawings on the rig and available for inspection. If there are any revisions or changes made to the approved set of BOP control system drawings, then you must submit an RPD and receive approval for those revisions.
2. Please be advised that the valve at the plus 10 ft level on the drive pipe must be remotely operated and full opening with visual observation while taking returns. The person in charge of observing returns must be in communication with the drill floor.
3. Please be reminded that an APM should be submitted with a final surveyed surface location

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plat (in NAD 83), KB, and water depth as soon as they are determined.

4. Please use caution while drilling because of possible shallow gas at 2690 ft and 2760 ft SS.

Mitigations:

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Geologic Information

H2S Designation Absent	H2S TVD
Anticipated Geologic Markers	
Name	Top MD
Cib Carst Sands	10233

Rig Information

RIG SPECIFICATIONS		ANCHORS	No
Rig Name	HERCULES 263		
Type	JACKUP	ID Number	4809
Function	DRILLING	Constucted Year	1982
Shipyard	BETHLEHEM	Refurbished Year	
RATED DEPTHS			
Water Depth	250	Drill Depth	25000
CERTIFICATES			
ABS/DNV	07/31/2012	Coast Guard	08/03/2012
SAFE WELDING AREA			
Approval Date	12/09/2005	District	1
Remarks	Water depth rating changed from 200 ft to 250 ft per attached email from Pride Offshore - note that rating decreases to 217 ft during hurricane season - DJT		

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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	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	N/A	
4	If requesting a waiver of the conductor casing, have you submitted a log to government agency G&G that is with in 500 feet of the proposed bottor	N/A	
5	Will the proposed operation be covered by an EPA Discharge Permit? (please provide permit number in comments for this question)	YES	GMG290250
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 we	N/A	
7	Is the calculated daily volume possible from an uncontrolled blowout of this well greater than the daily volume included in the worst case discharge	NO	

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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
pdf	Directional Program	Attached
pdf	Proposed Well Location Plat	Attached
pdf	Engineering Calculation	Attached
pdf	BOP stack certification including statement regarding any modifications made since last certification	Attached
pdf	Proposed Wellbore Schematic	Attached
pdf	BOP & Diverter Schematics with Operating Procedures	Attached
pdf	Blind-shear ram capability and certification	Attached
pdf	Pore pressure (PP), Mud Weight (MW), and Fracture Gradient (FG) Plot	Attached

Optional/Supplemental Attachments

pdf	OSFR Coverage	Attached
pdf	Cementing Contingency Plans	Attached
pdf	+ 10 Valve	Attached
pdf	APD Info Sheet (MMS-123S)	Attached
pdf	PE Certification	Attached
pdf	API RP65 Questionnaire	Attached

Contacts Information

Name	Gaby Medrano
Company	02579 Tana Exploration Company LLC
Phone Number	281-698-8524
E-mail Address	gaby.medrano@jccteam.com
Contact Description	Regulatory Specialist - J. Connor Consulting, Inc.

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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	Collapse Rating (psi)	Depth (ft) MD TVD		Pore Pressure (ppg)
1	18.625	94.5	K-55	2250	780	1100	1100	8.6
GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION		
Hole Size (in) 22.000			Type Diverter			Annular Test (psi) 200		
Mud Weight (ppg) 9.1			Size (in) 21.25			BOP/Diverter Test (psi) 200		
Mud Type Code Water Base			Wellhead Rating (psi) 2000			Test Fluid Weight (ppg) 9.1		
Fracture Gradient (ppg) 12.0			Annular Rating (psi) 2000			Casing/Liner Test (psi) 200		
Liner Top Depth (ft) 0.0			BOP/Diverter Rating (psi) 0			Formation Test (ppg) 0.0		
Cement Volume (cu ft) 742								
Interval Number 2		Type	Casing	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	13.375	68.0	NT80HE	5310	3080	5582	4500	9.5
GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION		
Hole Size (in) 17.500			Type Blowout			Annular Test (psi) 200		
Mud Weight (ppg) 10.0			Size (in) 13.625			BOP/Diverter Test (psi) 0		
Mud Type Code Water Base			Wellhead Rating (psi) 5000			Test Fluid Weight (ppg) 10.0		
Fracture Gradient (ppg) 15.8			Annular Rating (psi) 5000			Casing/Liner Test (psi) 3483		
Liner Top Depth (ft) 0.0			BOP/Diverter Rating (psi) 10000			Formation Test (ppg) 15.8		
Cement Volume (cu ft) 4000								
Interval Number 3		Type	Casing	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	9.625	47.0	P 110	9440	7100	8201	6500	11.9
GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION		
Hole Size (in) 12.250			Type Blowout			Annular Test (psi) 3500		
Mud Weight (ppg) 12.5			Size (in) 13.625			BOP/Diverter Test (psi) 5000		
Mud Type Code Water Base			Wellhead Rating (psi) 5000			Test Fluid Weight (ppg) 12.5		
Fracture Gradient (ppg) 17.1			Annular Rating (psi) 5000			Casing/Liner Test (psi) 5425		
Liner Top Depth (ft) 0.0			BOP/Diverter Rating (psi) 10000			Formation Test (ppg) 17.1		
Cement Volume (cu ft) 503								

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Interval Number 4		Type	Liner	Name		Production		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Depth (ft) MD	Depth (ft) TVD	Pore Pressure (ppg)
1	5.500	17.0	P-110HC	10640	8730	10233	8500	14.7

GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION		
Hole Size (in)	8.500		Type	Blowout		Annular Test (psi)	3500	
Mud Weight (ppg)	15.2		Size (in)	13.625		BOP/Diverter Test (psi)	5500	
Mud Type Code	Water Base		Wellhead Rating (psi)	10000		Test Fluid Weight (ppg)	15.2	
Fracture Gradient (ppg)	0.0		Annular Rating (psi)	5000		Casing/Liner Test (psi)	1142	
Liner Top Depth (ft)	7800.0		BOP/Diverter Rating (psi)	10000		Formation Test (ppg)	0.0	
Cement Volume (cu ft)	666							

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 27 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 for the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849