

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

Lease G08037 **Area/Block** AT 617 **Well Name** 002 **ST** 01 **BP** 00 **Well Type** Exploration
Application Status Approved **Operator** 02010 BHP Billiton Petroleum (GOM) Inc.

General Well Information

API Number 608184006001	Approval Date 01/13/2012	Approved By David Trocquet
Date of Request 01/13/2012	Req Spud Date 09/15/2011	Kickoff Point 13500
Water Depth (ft.) 6171	Drive Size (in) 36	Mineral Code Hydrocarbon
RKB Elevation 85	Drive Depth (ft.) 6527	Subsea BOP Yes
Verbal Approval Date		Verbal Approval By

Proposed Well Location
Surface Location

LEASE (OCS) G08037	Area/Block AT 617	Authority Federal Lease
Entered NAD 27 Data	Calculated NAD 27 Departures	Calculated NAD 27 X-Y Coordinates
Lat: 27.33108056	N 3280	X 711939.736297
Lon: -89.86006944	E 860	Y 9928399.972549
Surface Plan S 6670	Plan Lease (OCS) G08037	Area/Block AT 617

Bottom Location

LEASE (OCS) G08037	Area/Block AT 617	
Entered NAD 27 Data	Calculated NAD 27 Departures	Calculated NAD 27 X-Y Coordinates
Lat: 27.32803583	N 4309	X 708524.675548
Lon: -89.87050556	E 4275	Y 9927370.646889
Bottom Plan S 6670	Plan Lease (OCS) G08037	Area/Block AT 617

Approval Comments

Mitigations:

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Geologic Information

H2S Designation Absent	H2S TVD
Anticipated Geologic Markers	
Name	Top MD
M7 UPPER TOP	17439
TOP M7	18238
M8	18726
M9_C1	19239
M9_X	19649
M10A	19814
M10SB	19891

Rig Information

RIG SPECIFICATIONS		ANCHORS	No
Rig Name	T.O. DEVELOPMENT DRILLER I	ID Number	48236
Type	DP SEMISUBMERSIBLE	Constucted Year	2005
Function	DRILLING	Refurbished Year	
Shipyard	SINGAPORE		
RATED DEPTHS			
Water Depth	7500	Drill Depth	37500
CERTIFICATES			
ABS/DNV	03/27/2015	Coast Guard	03/08/2012
SAFE WELDING AREA			
Approval Date	08/25/2009	District	2
Remarks	The Safe Welding and Burning Area for the rig has been revised.		

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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?	YES	
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	NO	
5	Will the proposed operation be covered by an EPA Discharge Permit? (please provide permit number in comments for this question)	YES	NPDES GMG290184 - OUTFALL PENDING
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	Departure List	Attached
pdf	2012-01-12_Lance Labiche Approval of WCST Rev1	Attached
pdf	(11) SA01ST01 AT617 Cementing Best Practices Rev4 General	Attached
pdf	SA01ST01_MMS123S_Form and calculations Rev3.pdf	Attached
pdf	BLADE SA01 Well Exam Casing Cement Barriers Rev B.pdf	Attached
pdf	Exhibit A SA001ST01 WCST L1 REV 1 18 12Jan12	Attached

Contacts Information

Name	Susan Wilson
Company	02010 BHP Billiton Petroleum (GOM) Inc.
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E-mail Address	susan.wilson@bhpbilliton.com
Contact Description	

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Name	Kathy Camp
Company	02010 BHP Billiton Petroleum (GOM) Inc.
Phone Number	7132019627
E-mail Address	kathy.camp@kcampassociates.com
Contact Description	
Name	Jeff Camp
Company	02010 BHP Billiton Petroleum (GOM) Inc.
Phone Number	
E-mail Address	jeff.camp@kcampassociates.com
Contact Description	

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Well Design Information

Interval Number 1		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	13.625	88.2	HC Q125	10030	6370	13500	13498	10.0

GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION		
Hole Size (in)	17.500		Type	Blowout		Annular Test (psi)	5200	
Mud Weight (ppg)	10.7		Size (in)	18.75		BOP/Diverter Test (psi)	5200	
Mud Type Code	Synthetic Base		Wellhead Rating (psi)	15000		Test Fluid Weight (ppg)	11.2	
Fracture Gradient (ppg)	13.2		Annular Rating (psi)	10000		Casing/Liner Test (psi)	5200	
Liner Top Depth (ft)	0.0		BOP/Diverter Rating (psi)	15000		Formation Test (ppg)	13.2	
Cement Volume (cu ft)	1324							

Interval Number 2		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	11.750	65.0	TCA/Q-125	9940	5810	16965	16245	11.2

GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION		
Hole Size (in)	14.000		Type	Blowout		Annular Test (psi)	5200	
Mud Weight (ppg)	11.2		Size (in)	18.75		BOP/Diverter Test (psi)	5200	
Mud Type Code	Synthetic Base		Wellhead Rating (psi)	15000		Test Fluid Weight (ppg)	11.2	
Fracture Gradient (ppg)	14.2		Annular Rating (psi)	10000		Casing/Liner Test (psi)	3100	
Liner Top Depth (ft)	13144.0		BOP/Diverter Rating (psi)	15000		Formation Test (ppg)	14.2	
Cement Volume (cu ft)	950							

Interval Number 3		Type	Liner	Name				Production
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	53.5	C110	10900	7950	18600	17363	12.8
2	9.875	62.8	C-110	12180	10290	20040	18690	12.8

GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION		
Hole Size (in)	12.250		Type	Blowout		Annular Test (psi)	5200	
Mud Weight (ppg)	12.8		Size (in)	18.75		BOP/Diverter Test (psi)	5200	
Mud Type Code	Synthetic Base		Wellhead Rating (psi)	15000		Test Fluid Weight (ppg)	12.8	
Fracture Gradient (ppg)	14.8		Annular Rating (psi)	10000		Casing/Liner Test (psi)	4200	
Liner Top Depth (ft)	13044.0		BOP/Diverter Rating (psi)	15000		Formation Test (ppg)	14.8	

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Cement Volume (cu ft) 910		
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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