

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

Lease G23005 **Area/Block** GC 949 **Well Name** 001 **ST** 00 **BP** 00 **Well** Exploration
Application Status Approved **Operato** 02407 Woodside Energy (USA) Inc.

Correction Narrative

Revise the APD to reflect the actual 13 5/8" casing setting depth and to revise for setting an 11 7/8" scab liner to cover up a tar intrusion interval. The 11 7/8" liner was not cemented and verbal approval was given by the MMS to waive the casing pressure test on the liner.

General Well Information

API Number 608114049600	Approval Date 09/27/2007	Approved By Ben Coco
Date of Request 09/26/2007	Req Spud 08/10/2007	Kickoff Point N/A
Water Depth (ft.) 5368	Drive Size (in) 36	Mineral Code Hydrocarbon
RKB Elevation 79	Drive Depth 5727	Subsea BOP Yes
Verbal Approval		Verbal Approval By

Proposed Well Location

SURFACE LOCATION

LEASE (OCS) G23005	Area/Block GC 949	Authority Federal Lease
Entered NAD 27	Calculated NAD 27 Departures	Calculated NAD 27 X-Y
Lat: 27.02524417	N 7317.0	X 2390830.043209
Lon: -90.69453833	E 1010.0	Y 9813483.034581
Surface Plan	Plan Lease (OCS) G23005	Area/Block GC 949

BOTTOM LOCATION

LEASE (OCS) G23005	Area/Block GC949	
Entered NAD 27	Calculated NAD 27 Departures	Calculated NAD 27 X-Y
Lat: 27.02524417	N 7317.0	X 2390830.043209
Lon: -90.69453833	E 1010.0	Y 9813483.034581
Bottom Plan	Plan Lease (OCS) G23005	Area/Block GC 949

Approval Comments

This Revised Permit is subject to any applicable conditions as stated in previous approvals.

This approval also confirms the verbal granted on September 25, 2007.

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Geologic Information

H2S Designation Absent	H2S TVD
Anticipated Geologic Markers	
Name	Top MD
Top of Salt	8329
Base of Salt	20479
Undifferentiated U. Miocene	20480
C. Miopelagicus	22479
Sphenolithus Belemnos	25879

Rig Information

RIG SPECIFICATIONS		ANCHORS Yes
Rig Name	NOBLE MAX SMITH	
Type	SEMISUBMERSIBLE	ID Number 92125
Function	DRILLING	Constructed 1980
Shipyard	CHICAGO TX	Refurbished 1999
RATED DEPTHS		
Water Depth 6000	Drill Depth	30000
CERTIFICATES		
ABS/DNV 03/31/2010	Coast Guard	01/05/2008
SAFE WELDING AREA		
Approval Date 06/10/1999	District	1.0
Remarks	CONVERTED FROM SUBMERSIBLE TO SEMI SUBMERSIBLE COMPLETED ON 12/11/99.	

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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	GMG290315
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	Proposed Wellbore Schematic	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

Optional/Supplemental Attachments

pdf	Revised MMS-123S Form	Attached
pdf	Revised Mooring Pattern and Equipment	Attached
pdf	Revised Hurricane Mooring Checklist	Attached
pdf	Constat revised for dates	Attached
pdf	Safe Welding Area Drawing	Attached
pdf	U.S. Coast Guard Certificate	Attached
pdf	Rig Mooring Upgrade Letter	Attached
pdf	Revised mooring analysis	Attached
pdf	Departure List	Attached
pdf	ABS/DNV Certificate	Attached

Contacts Information

Name	John White
Company	02407 Woodside Energy (USA) Inc.
Phone Number	985-249-5453
E-mail Address	john.white@woodsideenergy.com
Contact	Drilling Engineer
Name	Danny Kennedy
Company	02407 Woodside Energy (USA) Inc.
Phone Number	985-249-5300
E-mail Address	danny.kennedy@woodside.com.au
Contact	Regulatory & HSE Technician

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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	22.0	224.0	X-80	6363.0	3876.0	7829.	7829.	8.6
2	22.0	170.2	X-60	3668.0	1853.0	8672.	8672.	8.6

GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION		
Hole Size (in)	26.0		Type	Blowout		Annular Test (psi)	3500.0	
Mud Weight (ppg)	8.6		Size (in)	18.75		BOP/Diverter Test	7300.0	
Mud Type Code	Gelled Sea		Wellhead Rating	15000		Test Fluid Weight	8.6	
Fracture Gradient	12.6		Annular Rating (psi)	5000		Casing/Liner Test	2200.0	
Liner Top Depth (ft)			BOP/Diverter Rating	15000		Formation Test (ppg)	12.6	
Cement Volume (cu	7089.0							

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	13.625	88.2	HC Q125	10030.0	6370.0	16796	16796	10.6

GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION		
Hole Size (in)	16.5		Type	Blowout		Annular Test (psi)	3500.0	
Mud Weight (ppg)	12.2		Size (in)	18.75		BOP/Diverter Test	7300.0	
Mud Type Code	Synthetic		Wellhead Rating	15000		Test Fluid Weight	12.2	
Fracture Gradient	15.1		Annular Rating (psi)	5000		Casing/Liner Test	4475.0	
Liner Top Depth (ft)			BOP/Diverter Rating	15000		Formation Test (ppg)	15.1	
Cement Volume (cu	3689.0							

Interval Number 3			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	11.875	71.8	HCQ-125	10720.0	7280.0	20738	20738	10.5

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Well Design Information

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	14.5	Type	Blowout	Annular Test (psi)	3500.0
Mud Weight (ppg)	12.5	Size (in)	18.75	BOP/Diverter Test	7300.0
Mud Type Code	Synthetic	Wellhead Rating	15000	Test Fluid Weight	12.5
Fracture Gradient	14.0	Annular Rating (psi)	5000	Casing/Liner Test	0.0
Liner Top Depth (ft)	16373.0	BOP/Diverter Rating	15000	Formation Test (ppg)	14.0
Cement Volume (cu	0.0				

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	9.875	62.8	HC Q125	13840.0	11140.0	24785 24785	11.3

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	12.25	Type	Blowout	Annular Test (psi)	3500.0
Mud Weight (ppg)	13.0	Size (in)	18.75	BOP/Diverter Test	7300.0
Mud Type Code	Synthetic	Wellhead Rating	15000	Test Fluid Weight	13.0
Fracture Gradient	15.3	Annular Rating (psi)	5000	Casing/Liner Test	3500.0
Liner Top Depth (ft)	20300.0	BOP/Diverter Rating	15000	Formation Test (ppg)	15.3
Cement Volume (cu	1000.0				

Interval Number		5		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						27100	27100	13.5	

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	8.5	Type	Blowout	Annular Test (psi)	3500.0
Mud Weight (ppg)	14.5	Size (in)	18.75	BOP/Diverter Test	7300.0
Mud Type Code	Synthetic	Wellhead Rating	15000	Test Fluid Weight	0.0
Fracture Gradient	15.3	Annular Rating (psi)	5000	Casing/Liner Test	
Liner Top Depth (ft)		BOP/Diverter Rating	15000	Formation Test (ppg)	
Cement Volume (cu					

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