

From: Morel, Brian P
Sent: Mon Feb 08 14:42:29 2010
To: Lee, Earl P (Oper Svcs Drill); Sepulvado, Ronald W; Sepulvado, Murry R; Vidrine, Don J; Doucet, R
J
Cc: Guide, John; Hafle, Mark E; Cocalles, Brett W
Subject: Test Pressure
Importance: Normal
Attachments: RPD-Annual Pressure approval.pdf

Plan Forward:

Test connector and blind shears to 6500 psi on seawater using test plug

Run clean-out BHA and test BOP to 6500 psi and annulars to 3500 psi on seawater (need to confirm we have enough weight)

Drill out cement plug at 5800' TVD

TOOH and pick up the drilling assembly

Test casing to 3000 psi while tripping in with the BHIA

I am confirming with the MMS that 3500 psi is fine for the remainder of the well (both annulars). The change was made in the narrative, but no for the 18" interval section, believe its just a typo. Should have an answer shortly.

Thanks

Brian

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Form MMS 123A/123S - Electronic Version

Application for Revised New Well

Lease G32306 **Area/Block** MC 252 **Well Name** 001 **ST** 00 **BP** 00 **Well Type** Exploration
Application Status Approved **Operator** 02481 BP Exploration & Production Inc.

Correction Narrative 01-25-10 -

1) Revise Annular Pressure test from 5000 psi to 3500 psi.

2) Request departure to stump test the 6-5/8" and 5-1/2" drill pipe but only the 6-5/8" drillpipe subsea. The only time the 5-1/2" will be run below the stack is as an inner string during the 16" casing job. Once the 16" string is landed out and cemented, the seal assemble will be set, and the inner string pulled out of the wellbore. During this time the 5-1/2" will be below the stack inside the casing

01-12-10 - Revision to use the Deepwater Horizon to finish drilling operations (Marianas sent to shipyard for repairs, no longer under BP contract).

Revised attachments include:

- 1) Horizon BOP schematic
- 2) Wellbore schematic with revised RKB
- 3) Revised Departure List (removed departure for 250.449 (f))
- 4) Revised Pore Pressure Plot with Horizon RKB

The casing information has been upated to reflect actual setting depths, mudweights, etc.

Attachments referring to the Marianas BOPs and mooring have been removed.

10-29-09 - Revised to show shallow setting depth and revised cement volume for the 18" casing.

Revision I: 10-15-09

This RPD is to request approval to replace the upper annular element from the originally approved standard element rated to 10k on 5-1/2" pipe to a 6-5/8" element which is rated to 7.5k on 5-1/2" and 10k on 6-5/8".

Please see the attached chart which shows the rating of each element. Our max annular tests per the approved APD will be 5k both on the stump test and down hole.

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General Well Information

API Number 608174116900	Approval Date 01/29/2010	Approved By Frank Patton
Date of Request 01/25/2010	Req Spud Date 06/15/2009	Kickoff Point N/A
Water Depth (ft.) 4992	Drive Size (in) 36	Mineral Code Hydrocarbon
RKB Elevation 75	Drive Depth (ft.) 5361	Subsea BOP Yes
Verbal Approval Date	Verbal Approval By	

Proposed Well Location

Surface Location

LEASE (OCS) G32306	Area/Block MC 252	Authority Federal Lease
Entered NAD 27 Data	Calculated NAD 27 Departures	Calculated NAD 27 X-Y Coordinates
Lat: 28.73836889	N 6857	X 1202802.892336
Lon: -88.36593389	E 1037	Y 10431702.916855
Surface Plan	Plan Lease (OCS) G32306	Area/Block MC 252

Bottom Location

LEASE (OCS) G32306		Area/Block MC 252	
Entered NAD 27 Data		Calculated NAD 27 Departures	
Lat: 28.73836889		X 1202802.892336	
Lon: -88.36593389		Y 10431702.916855	
Bottom Plan		Plan Lease (OCS) G32306 Area/Block MC 252	

Approval Comments

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Application for Revised New Well

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Geologic Information

H2S Designation Absent	H2S TVD
Anticipated Geologic Markers	
Name	Top MD
Reticulofenestra pseudumbilicus	7060
Catinaster mexicanus	9100
Catinaster coalitus	13145
Discoaster kugleri	14153
Cyclicargolithus floridanus	17481
Globorotalia peripheroronda	18400
Sphenolithus heteromorphus	19120
Discoaster petaliformis	19594

Rig Information

RIG SPECIFICATIONS		ANCHORS	No
Rig Name	T.O. DEEPWATER HORIZON	ID Number	46428
Type	SEMISUBMERSIBLE	Constucted Year	2001
Function	DRILLING	Refurbished Year	
Shipyard	HYUNDAI		
RATED DEPTHS		Drill Depth	35000
Water Depth	10000		
CERTIFICATES		Coast Guard	07/27/2011
ABS/DNV	02/28/2011		
SAFE WELDING AREA		District	1
Approval Date	09/26/2001		
Remarks			

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Application for Revised New Well

Lease G32306 Area/Block MC 252 Well Name 001 ST 00 BP 00 Well Type Exploration
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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 i	YES	
4	If requesting a waiver of the conductor casing, have you submitted a log to MMS G&G that is with in 500 feet of the proposed bottom hole location for th	N/A	
5	Will the proposed operation be covered by an EPA Discharge Permit? (please provide permit number in comments for this question)	YES	NOI has been submitted but permit number has not yet been assigned.
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 plat	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
pdf	Directional Program	Attached
pdf	Proposed Well Location Plat	Attached
pdf	BOP & Diverter Schematics with Operating Procedures	Attached
pdf	Pore pressure (PP), Mud Weight (MW), and Fracture Gradient (FG) Plot	Attached
pdf	Proposed Wellbore Schematic	Attached
pdf	Engineering Calculation	Attached

Optional/Supplemental Attachments

pdf	Departure List	Attached
PDF	Application for Permit to Drill	Attached

Contacts Information

Name	Heather Powell
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Contact Description	Regulatory
Name	Scherie Douglas
Company	02481 BP Exploration & Production Inc.
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Application for Revised New Well

Lease G32306 Area/Block MC 252 Well Name 001 ST 00 BP 00 Well Type Exploration
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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	Depth (ft) TVD	Pore Pressure (ppg)
1	28.000	218.0	X-52	2437	952	6217	6217	8.6
GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION		
Hole Size (in) 32.500			Type No Preventers			Annular Test (psi) 0		
Mud Weight (ppg) 8.6			Size (in) N/A			BOP/Diverter Test (psi) 0		
Mud Type Code Gelled Sea Water			Wellhead Rating (psi) 0			Test Fluid Weight (ppg) 0.0		
Fracture Gradient (ppg) 9.8			Annular Rating (psi) 0			Casing/Liner Test (psi) 0		
Liner Top Depth (ft)			BOP/Diverter Rating (psi) 0			Formation Test (ppg) 0.0		
Cement Volume (cu ft) 4636								

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	Depth (ft) TVD	Pore Pressure (ppg)
1	22.000	277.0	X-80	7955	6670	5227	5227	8.6
2	22.000	224.0	X-80	6363	3876	7937	7937	9.3
GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION		
Hole Size (in) 26.000			Type Blowout			Annular Test (psi) 5000		
Mud Weight (ppg) 9.5			Size (in) 18.75			BOP/Diverter Test (psi) 6500		
Mud Type Code Water Base			Wellhead Rating (psi) 15000			Test Fluid Weight (ppg) 8.6		
Fracture Gradient (ppg) 10.5			Annular Rating (psi) 10000			Casing/Liner Test (psi) 3400		
Liner Top Depth (ft)			BOP/Diverter Rating (psi) 15000			Formation Test (ppg) 10.5		
Cement Volume (cu ft) 6301								

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Application for Revised New Well

Lease G32306 Area/Block MC 252 Well Name 001 ST 00 BP 00 Well Type Exploration
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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)		Pore Pressure (ppg)
						MD	TVD	
1	18.000	117.0	P-110	6680	2110	8969	8969	10.0

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	22.000	Type	Blowout	Annular Test (psi)	5000
Mud Weight (ppg)	10.2	Size (in)	18.75	BOP/Diverter Test (psi)	6500
Mud Type Code	Synthetic Base	Wellhead Rating (psi)	15000	Test Fluid Weight (ppg)	10.2
Fracture Gradient (ppg)	12.1	Annular Rating (psi)	10000	Casing/Liner Test (psi)	3000
Liner Top Depth (ft)	7489.0	BOP/Diverter Rating (psi)	15000	Formation Test (ppg)	12.1
Cement Volume (cu ft)	993				

Interval Number 4			Type	Casing	Name			Intermediate
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Depth (ft)		Pore Pressure (ppg)
						MD	TVD	
1	16.000	97.0	P-110	6920	2340	12500	12500	11.4

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	20.000	Type	Blowout	Annular Test (psi)	3500
Mud Weight (ppg)	11.6	Size (in)	18.75	BOP/Diverter Test (psi)	6500
Mud Type Code	Synthetic Base	Wellhead Rating (psi)	15000	Test Fluid Weight (ppg)	11.6
Fracture Gradient (ppg)	13.6	Annular Rating (psi)	10000	Casing/Liner Test (psi)	3300
Liner Top Depth (ft)		BOP/Diverter Rating (psi)	15000	Formation Test (ppg)	13.6
Cement Volume (cu ft)	930				

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)		Pore Pressure (ppg)
						MD	TVD	
1	13.625	88.2	Q-125	10030	4800	15300	15300	12.9

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	16.000	Type	Blowout	Annular Test (psi)	3500
Mud Weight (ppg)	13.1	Size (in)	18.75	BOP/Diverter Test (psi)	6500
Mud Type Code	Synthetic Base	Wellhead Rating (psi)	15000	Test Fluid Weight (ppg)	13.1
Fracture Gradient (ppg)	14.7	Annular Rating (psi)	10000	Casing/Liner Test (psi)	2000
Liner Top Depth (ft)	12200.0	BOP/Diverter Rating (psi)	15000	Formation Test (ppg)	14.7
Cement Volume (cu ft)	410				

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Interval Number 6		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						20200 20200	14.0
GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION	
Hole Size (in) 14.000			Type Blowout			Annular Test (psi) 3500	
Mud Weight (ppg) 14.2			Size (in) 18.75			BOP/Diverter Test (psi) 6500	
Mud Type Code Synthetic Base			Wellhead Rating (psi) 15000			Test Fluid Weight (ppg) 0.0	
Fracture Gradient (ppg) 16.1			Annular Rating (psi) 10000			Casing/Liner Test (psi) 0	
Liner Top Depth (ft)			BOP/Diverter Rating (psi) 15000			Formation Test (ppg) 0.0	
Cement Volume (cu ft)							

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