

From: Morel, Brian P
Sent: Fri Apr 16 02:42:42 2010
To: Vidrine, Don J; Sepulvado, Ronald W
Subject: FW: Modification of Permit to Bypass at Location Surface Lease: G32306 Surface Area: MC Surface Block: 252 Bottom Lease: G32306 Bottom Area: MC Bottom Block: 252 Well Name: 001 Assigned API Number: 608174116901 has been approved.
Importance: Normal
Attachments: Macondo_RBP_7addition.pdf
Attachments: Macondo_RBP_7addition.pdf

FYI - Approved permit for casing. Still working on getting permission to set deeper surface plug.

----- Original Message -----

From: Powell, Heather (JC Connor Consulting)
To: Hafle, Mark E
Sent: Thu Apr 15 15:11:56 2010
Subject: FW: Modification of Permit to Bypass at Location Surface Lease: G32306 Surface Area: MC Surface Block: 252 Bottom Lease: G32306 Bottom Area: MC Bottom Block: 252 Well Name: 001 Assigned API Number: 608174116901 has been approved.

Please tell me 3rd time's the charm! :)

Thanks!
Heather

-----Original Message-----

From: frank.patton@mms.gov [mailto:frank.patton@mms.gov]
Sent: Thursday, April 15, 2010 2:40 PM
To: Powell, Heather (JC Connor Consulting)
Subject: Modification of Permit to Bypass at Location Surface Lease: G32306 Surface Area: MC Surface Block: 252 Bottom Lease: G32306 Bottom Area: MC Bottom Block: 252 Well Name: 001 Assigned API Number: 608174116901 has been approved.

Modification of Permit to Bypass at Location Surface Lease: G32306 Surface Area: MC Surface Block: 252 Bottom Lease: G32306 Bottom Area: MC Bottom Block: 252 Well Name: 001 Assigned API Number: 608174116901 has been approved. as of 2010-04-15 14:39:39.0

Form MMS 123A/123S - Electronic Version

Application for Revised Bypass

Lease G32306 Area/Block MC 252 Well Name 001 ST 00 BP 01 Well Type Exploration
Application Status Approved Operator 02481 BP Exploration & Production Inc.

Pay.gov
Amount:

Agency
Tracking ID:

Pay.gov
Tracking ID:

04/15/10 - Inadvertently removed the 9-7/8" liner from the well design information. Have reincorporated it.

04/15/10 - Correct casing program. the 9-7/8" & 7" are actually a tapered casing. Please see corrected well design information.

04/14/10 - Revise casing program to include running a 7" production casing.

Revised data includes:
- wellbore schematic

03/26/10 - Revise casing program to include running a 9.875" liner.

Revised data includes:
- directional
- wellbore schematic
- pore pressure chart
- procedure

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.

Form MMS 123A/123S - Electronic Version

Application for Revised Bypass

Lease G32306 Area/Block MC 252 Well Name 001 ST 00 BP 01 Well Type Exploration
Application Status Approved Operator 02481 BP Exploration & Production Inc.

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.

General Well Information

API Number 608174116901	Approval Date 04/15/2010	Approved By Frank Patton
Date of Request 04/15/2010	Req Spud Date 03/16/2010	Kickoff Point
Water Depth (ft.) 4992	Drive Size (in) 36	Mineral Code Hydrocarbon
.KB 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)	Area/Block

Bottom Location

LEASE (OCS) G32306		Area/Block MC 252			
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	
Bottom Plan		Plan Lease (OCS)		Area/Block	

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

Lease G32306 **Area/Block** MC 252 **Well Name** 001 **ST** 00 **BP** 01 **Well Type** Exploration
Application Status Approved **Operator** 02481 BP Exploration & Production Inc.

Approval Comments

Form MMS 123A/123S - Electronic Version

Application for Revised Bypass

Lease G32306 Area/Block MC 252 Well Name 001 ST 00 BP 01 Well Type Exploration
Application Status Approved Operator 02481 BP Exploration & Production Inc.

Geologic Information

H2S Designation Absent	H2S TVD
Anticipated Geologic Markers	
Name	Top MD
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		
Type	SEMISUBMERSIBLE	ID Number	46428
Function	DRILLING	Constructed Year	2001
Shipyard	HYUNDAI	Refurbished Year	
RATED DEPTHS			
Water Depth	10000	Drill Depth	35000
CERTIFICATES			
ABS/DNV	02/28/2011	Coast Guard	07/27/2011
SAFE WELDING AREA			
Approval Date	09/26/2001	District	1
Remarks			

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

Lease G32306 Area/Block MC 252 Well Name 001 ST 00 BP 01 Well Type Exploration
Application Status Approved Operator 02481 BP Exploration & Production Inc.

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	N/A	
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	Number not yet 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	

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

Lease G32306 Area/Block MC 252 Well Name 001 ST 00 BP 01 Well Type Exploration
Application Status Approved Operator 02481 BP Exploration & Production Inc.

Permit Attachments

File Type	File Description	Status
-----------	------------------	--------

Required Attachments

pdf	Drilling prognosis and summary of drilling, cementing, and mud processes	Attached
-----	--	----------

Optional/Supplemental Attachments

pdf	Wellbore Schematic	Attached
PDF	Application for Permit to Drill	Attached

Contacts Information

Name	Heather Powell
Company	02481 BP Exploration & Production Inc.
Phone Number	281-504-0984
E-mail Address	heather.powell@bp.com
Contact Description	Regulatory

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

Lease G32306 Area/Block MC252 Well Name 001 ST 00 BP 01 Well Type Exploration
Application Status Approved Operator 02481 BP Exploration & Production Inc.

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	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)		Pore Pressure (ppg)		
						MD	TVD			
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								

Form MMS 123A/123S - Electronic Version

Application for Revised Bypass

Lease G32306 Area/Block MC 252 Well Name 001 ST 00 BP 01 Well Type Exploration
 Application Status Approved Operator 02481 BP Exploration & Production Inc.

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	18.000	117.0	P-110	6680	2110	8969	8969	10.1

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	22.000	Type	Blowout	Annular Test (psi)	3500
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)	11.8	Annular Rating (psi)	10000	Casing/Liner Test (psi)	3000
Liner Top Depth (ft)	7489.0	BOP/Diverter Rating (psi)	15000	Formation Test (ppg)	11.8
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) MD TVD		Pore Pressure (ppg)
1	16.000	97.0	P-110	6920	2340	11585	11585	11.0

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	20.000	Type	Blowout	Annular Test (psi)	3500
Mud Weight (ppg)	11.2	Size (in)	18.75	BOP/Diverter Test (psi)	6500
Mud Type Code	Synthetic Base	Wellhead Rating (psi)	15000	Test Fluid Weight (ppg)	11.2
Fracture Gradient (ppg)	13.0	Annular Rating (psi)	10000	Casing/Liner Test (psi)	3600
Liner Top Depth (ft)		BOP/Diverter Rating (psi)	15000	Formation Test (ppg)	13.0
Cement Volume (cu ft)	1120				

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) MD TVD		Pore Pressure (ppg)
1	13.625	88.2	Q-125	10030	4800	13145	13145	11.7

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	16.000	Type	Blowout	Annular Test (psi)	3500
Mud Weight (ppg)	12.3	Size (in)	18.75	BOP/Diverter Test (psi)	6500
Mud Type Code	Synthetic Base	Wellhead Rating (psi)	15000	Test Fluid Weight (ppg)	12.1
Fracture Gradient (ppg)	14.7	Annular Rating (psi)	10000	Casing/Liner Test (psi)	2500
Liner Top Depth (ft)	11153.0	BOP/Diverter Rating (psi)	15000	Formation Test (ppg)	14.7
Cement Volume (cu ft)	410				

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

Lease G32306 Area/Block MC 252 Well Name 001 ST 00 BP 01 Well Type Exploration
 Application Status Approved Operator 02481 BP Exploration & Production Inc.

Interval Number 6		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	Q-125	10720	5630	15113	15102	13.1
GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION		
Hole Size (in)	14.500	Type	Blowout		Annular Test (psi)	3500		
Mud Weight (ppg)	13.3	Size (in)	18.75		BOP/Diverter Test (psi)	6500		
Mud Type Code	Synthetic Base	Wellhead Rating (psi)	15000		Test Fluid Weight (ppg)	13.3		
Fracture Gradient (ppg)	14.6	Annular Rating (psi)	10000		Casing/Liner Test (psi)	1800		
Liner Top Depth (ft)	12800.0	BOP/Diverter Rating (psi)	15000		Formation Test (ppg)	14.6		
Cement Volume (cu ft)	340							

Interval Number 7		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	Q-125	13840	11140	17511	17500	13.7
GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION		
Hole Size (in)		12.250	Type	Blowout		Annular Test (psi)		3500
Mud Weight (ppg)		13.9	Size (in)	18.75		BOP/Diverter Test (psi)		6500
Mud Type Code		Synthetic Base	Wellhead Rating (psi)	15000		Test Fluid Weight (ppg)		13.9
Fracture Gradient (ppg)		15.0	Annular Rating (psi)	10000		Casing/Liner Test (psi)		1000
Liner Top Depth (ft)		14900.0	BOP/Diverter Rating (psi)	15000		Formation Test (ppg)		15.0
Cement Volume (cu ft)		160						

Interval Number 8		Type	Casing	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	9.875	62.8	Q-125	13840	11140	12300 12289	13.9
2	7.000	32.0	Q-125	14160	11710	18360 18349	13.9
GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION			
Hole Size (in)	9.875	Type	Blowout	Annular Test (psi)	3500		
Mud Weight (ppg)	14.0	Size (in)	18.75	BOP/Diverter Test (psi)	6500		
Mud Type Code	Synthetic Base	Wellhead Rating (psi)	15000	Test Fluid Weight (ppg)	14.0		
Fracture Gradient (ppg)	16.0	Annular Rating (psi)	10000	Casing/Liner Test (psi)	2500		
Liner Top Depth (ft)	0.0	BOP/Diverter Rating (psi)	15000	Formation Test (ppg)	15.2		

Form MMS 123A/123S - Electronic Version

Application for Revised Bypass

Form MMS 123A/123S - Electronic Version

Application for Revised Bypass

Lease ☐ Area/Block ☐ Well Name ☐ ST ☐ BP ☐ Well Type ☐
Application Status ☐ Operator ☐ ☐

Cement Volume (cu ft)

--	--	--

Application for Revised Bypass

Application for Revised Bypass

Application for Revised Bypass