OMB Control Number 1010-0141 OMB Approval Expires 11/30/2011

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

	• •	••
_ease 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:
	03/26/10 - Revise casing program to include	running a 9.875" liner.
	Revised data includes: - directional - wellbore schematic - pore pressure chart - procedure	Exhibit No. Worldwide Court Reporters, Inc.
	01-25-10 -	
	1) Revise Annular Pressure test from 5000 p	si to 3500 psi.
	subsea. The only time the 5-1/2" will be run casing job. Once the 16" string is landed ou	3" and 5-1/2" drill pipe but only the 6-5/8" drillpipe below the stack is as an inner string during the 16" t and cemented, the seal assemble will be set, and the p this time the 5-1/2" will be below the stack inside the
	01-12-10 - Revision to use the Deepwater He shipyard for repairs, no longer under BP cor	orizon to finish drilling operations (Marianas sent to tract).
	Revised attachments include:	
	Horizon BOP schematic Wellbore schematic with revised RKB	
	Revised Departure List (removed departur Revised Pore Pressure Plot with Horizon	
	The casing information has been upated to r	eflect actual setting depths, mudweights, etc.
	Attachments referring to the Marianas BOPs	and mooring have been removed.
		This services beautiful to the service of the servi
	10-29-09 - Revised to show shallow setting of	depth and revised cement volume for the 18" casing.
		he upper annular element from the originally approved to a 6-5/8" element which is rated to 7.5k on 5-1/2"
	Please see the attached chart which shows	the rating of each element. Our max annular tests per

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the approved APD will be 5k both on the stump test and down hole.

General Well Information

API Number 608174116901	Approval Date 03	3/26/2010	Approved By	Frank Patton
Date of Request 03/25/2010	Req Spud Date 03	3/16/2010	Kickoff Point	
Water Depth (ft.) 4992	Drive Size (in) 36	6	Mineral Code	Hydrocarbon
RKB Elevation 75	Drive Depth (ft.) 53	361	Subsea BOP	Yes
Verbal Approval Date	Verbal A	pproval By		

Proposed Well Location

Surface Location

LEASE (OCS) G32306	Area/B	lock MC 252	Authority Federal	Lease)
Entered NAD 27 Data		Calculated NAD 27 I	Departures	Cal	culated NAD 27 X-Y Coordinates
Lat: 28.73836889		N 6857		х	1202802.892336
Lon: -88.36593389		E 1037		Y	10431702.916855
Surface Plan	Plan Le	ease (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				

Approval Comments

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Geologic Information

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

Rig Information

RIG SPECIFICAT	TIONS	ANCHORS	No					
Rig Name	T.O. DEEPWATER HORIZON							
Туре	SEMISUBMERSIBLE	ID Number	46428					
Function	DRILLING	Constucted 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	Remarks							

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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	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 the		
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	

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Permit Attachr	nents	5				
File Type	File	Description		Status		
Required Attacl	hmen	ts				
pdf	1	lling prognosis and cesses	summary of drilling, cementing, and mud	Attached		
Optional/Supple	emen	tal Attachments				
pdf	We	Ilbore Schematic		Attached		
PDF	App	olication for Permit	to Drill	Attached		
pdf	Por	re Pressure Graph		Attached		
pdf	Dire	ectional plan		Attached		
Contacts Infor	rmatic	on				
Name		Scherie Douglas				
Company		02481	BP Exploration & Production Inc.			
Phone Number		281-366-6843				
E-mail Address		scherie.douglas@bp.com				
Contact Descrip	otion	Regulatory				
Name		Heather Powell				
Company		02481	BP Exploration & Production Inc.			
Phone Number		281-504-0984				
E-mail Address		heather.powell@	bp.com			
Contact Descrip	otion	Regulatory				

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Well Design Information

Interval Number 1 Type Casin				ng Name Conductor						
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Dep MD	oth (ft) TVD	Pore Pressu (ppg)		
1	28.000	218.0	X-52	2437	952	6217	6217		8.6	
GENERAL INFORMATION			PREVE	PREVENTER INFORMATION			TEST INFORMATION			
Hole Size (i	n)	32.500	Туре		No Preventers	Annula	er Test (ps	i)	0	
Mud Weight	t (ppg)	8.6	Size (in	in) N/A		BOP/D	Diverter Te	st (psi)	0	
Mud Type C	Code	Gelled Sea Water	Wellhea	ad Rating (psi)	0	Test F	luid Weigh	it (ppg)	0.0	
Fracture Gr	adient (ppg)	9.8	Annular	Rating (psi)	0	Casing/Liner Test (psi) 0		0		
Liner Top Depth (ft)			BOP/Di	verter Rating (p	si) 0	Forma	tion Test (ppg)	0.0	
Cement Vol	ume (cu ft)	4636								

Interval Number 2 Type Casi				ing Name Surface						
Section Number	Casing Size (in)	Casing Weight Casing Bu		Burst Rating	Collapse Rating (psi)	Dep MD	oth (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	INFORMATIC) N	PREVE	PREVENTER INFORMATION			TEST INFORMATION			
Hole Size (i	n)	26.000	Туре		Blowout	Annular Test (ps		i) 5000		
Mud Weigh	t (ppg)	9.5	Size (in	1)	18.75	BOP/Diverter Te		st (psi) 6500		
Mud Type C	Code \	Vater Base	Wellhea	Wellhead Rating (psi) 15		Test F	luid Weigh	t (ppg) 8.6		
Fracture Gr	radient (ppg)	10.5	Annulai	r Rating (psi)	10000	Casing/Liner Tes		st (psi) 3400		
Liner Top Depth (ft)			BOP/Di	iverter Rating (p	si) 15000	Forma	tion Test (ppg) 10.5		
Cement Vol	ume (cu ft)	6301								

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Interval Number 3 Type Line			ner	n Name Intermediate						
Section Casing Siz Number (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	INFORMATI	ON	PREVE	NTER INFORM	ATION	TEST	INFORMA	ATION		
Hole Size (in)	22.000	Туре		Blowout	Annular Test (psi)			3500	
Mud Weigh	t (ppg)	10.2	Size (in	Size (in)		BOP/Diverter Test (psi)			6500	
Mud Type (Code	Synthetic Base	Wellhea	ad Rating (psi)	15000	Test Fluid Weight (ppg)		t (ppg)	10.2	
Fracture G	radient (ppg)	11.8	Annulai	r Rating (psi)	10000	Casing/Liner Test (psi)		t (psi)	3000	
Liner Top Depth (ft) 7489.0		BOP/Di	iverter Rating (ps	i) 15000	Forma	tion Test (_l	ppg)	11.8		
Cement Vo	lume (cu ft)	993								

Interval N	umber 4	Type Ca	sing	ng Name Intermediate					
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psl)	Dep MD			Pressure opg)
1	16.000	97.0	P-110	6920	2340	11585	11585		11.0
GENERAL	INFORMATION	NC	PREVE	NTER INFORM	MATION	TEST	INFORMA	TION	
Hole Size (i	n)	20.000	Туре	Туре		Annular Test (psi)			3500
Mud Weight	t (ppg)	11.2	Size (in	Size (in) 18		BOP/Diverter Test (psi)		st (psi)	6500
Mud Type C	ode	Synthetic Base	Wellhea	Wellhead Rating (psi) 15		Test Fluid Weight (ppg		(ppg)	11.2
Fracture Gr	adient (ppg)	13.0	Annulai	Rating (psi)	10000	Casing/Liner Test (psi)		t (psi)	3600
Liner Top Depth (ft)		BOP/Di	verter Rating (p	si) 15000	Formation Test (p		pg)	13.0	
Cement Vol	ume (cu ft)	1120							

Interval Number 5 Type Line			ner	er 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			PREVE	PREVENTER INFORMATION			TEST INFORMATION				
Hole Size (in)		16.000	Туре		Blowout	Annular Test (psi)			3500		
Mud Weight (ppg)		12.3	Size (in)		18.75	BOP/Diverter Test (psi)		st (psi)	6500		
Mud Type Code		Synthetic Base	Wellhead Rating (psi)		15000	Test Fluid Weight (ppg)		it (ppg)	12.1		
Fracture Gradient (ppg) 14.7		14.7	Annular Rating (psi)		10000	Casing/Liner Test (psi)		st (psi)	2500		
Liner Top Depth (ft)		11153.0	BOP/Diverter Rating (p		si) 15000	Formation Test (ppg)		ppg)	14.7		
Cement Vol	ume (cu ft)	410									

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Interval Number 6 Type Line		ner	er 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			PREVE	PREVENTER INFORMATION			TEST INFORMATION				
Hole Size (in)		14.500	Туре		Blowout	Annular Test (psi)			3500		
Mud Weight (ppg)		13.3	Size (in)		18.75	BOP/Diverter Test (psi)			6500		
Mud Type Code S		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)		t (psi)	1800			
Liner Top Depth (ft) 12800.0		12800.0	BOP/Diverter Rating (ps		i) 15000	Formation Test (ppg)		ppg)	14.6		
Cement Vol	ume (cu ft)	340									

Interval Number 7 Type Lines			ner	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			PREVE	PREVENTER INFORMATION			TEST INFORMATION				
Hole Size (in)		12.250	Туре		Blowout	Annular Test (psi)			3500		
Mud Weight (ppg)		13.9	Size (in)		18.75	BOP/Diverter Test (psi)		st (psi)	6500		
Mud Type Code Synt		Synthetic Base	Wellhead Rating (psi)		15000	Test Fluid Weight (ppg)		t (ppg)	13.9		
Fracture Gradient (ppg) 15.0		Annular Rating (psi)		10000	Casing/Liner Test (psi)		st (psi)	1000			
Liner Top Depth (ft)		14900.0	BOP/Di	iverter Rating (p	si) 15000	Forma	tion Test (ppg)	15.0		
Cement Volume (cu ft) 160											

Interval Number 8 Type Ope			en Hole	en Hole Name Open Hole							
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Depth (ft) F			re Pressure (ppg)		
1						20211	20200		14.2		
GENERAL INFORMATION			PREVE	PREVENTER INFORMATION			TEST INFORMATION				
Hole Size (in) 12.250		Туре		Blowout	Annular Test (psi)			3500			
Mud Weight (ppg) 14.4		14.4	Size (in)		18.75	BOP/Diverter Test (psi)			6500		
Mud Type Code Synthetic Base		Wellhead Rating (psi)		15000	Test Fluid Weight (ppg)		t (ppg)	0.0			
Fracture Gradient (ppg) 16.1		Annular Rating (psi)		10000	Casing/Liner Test (psi)		t (psi)	0			
Liner Top Depth (ft)		BOP/Di	verter Rating (ps	si) 15000	Formation Test (ppg)		ppg)	0.0			
Cement Volume (cu ft)											

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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

MMS Application for Permit to Drill Bypass 1

Attachment 9
Drilling Program Summary

Prospect Overview

Macondo is a moderate depth Miocene prospect in the Mississippi Canyon area. The prospect is located entirely outside of any salt body. It is located approximately 24 miles north of BP's Isabela discovery which was drilled in MC 562 during 2006. The primary target for the Macondo prospect is the M56, which was the same as Isabela. The target depth for Macondo is approximately 18,400'. The well will be drilled to a TD of 20,200' to test the older Miocene section below the targeted M56. Seismic data quality over this prospect is very good since there is no salt involved. The well will be drilled as a vertical hole from the "A" location as permitted in the approved Exploration Plan for MC 252.

Drilling Plan Summary

The Macondo well was originally drilled to 9090' with the Transocean Marianas rig to a depth of 9090 ft md/tvd and 18" liner was set at 8,983 ft md/tvd depths referenced to Marianas rig.

The Transocean Deepwater Horizon was then mobilized to finish drilling the well. The Deepwater Horizon drilled to a total depth of 12,350 ft md/tvd when lost circulation began and the 16" casing was then set off bottom at 11,585 md/tvd. The 13-5/8" interval was then drilled to 13,305 ft md/tvd where a kick was taken and the BHA became packed off and stuck and could not be removed. The BHA was severed at 12,100 ft md/tvd and well kill operations commenced.

The plan forward is to cement the original hole from 12,100 ft md/tvd up to the 16" casing shoe at 11,585 ft md/tvd so that a bypass operation can be commenced without incurring the hole problems that were in the original hole. The well will be bypassed at the 16" shoe depth and will be approximately 100 ft distance from the original well at total depth.

A 14-3/4" x 16" hole will be used to bypass and drill with SOBM to 13,100' md/tvd. After POOH, the 13-5/8" liner will be run and cemented in place with Halliburton Class-H lead and tail slurries. A Leak-off Test (LOT) will be performed after drilling out. The estimated fracture gradient is ~13.8 ppg EMW. This setting depth should give sufficient fracture gradient to achieve drilling to the next liner setting depth of 16,000 ft md/tvd.

A 12-1/4"x 14-1/2" hole will be drilled to ,15,100' tvd. After POOH, the 11-7/8" liner will be run and cemented in place with Halliburton Class-H lead and tail slurries. A Leak-off Test (LOT) will be performed after drilling out. The estimated fracture gradient is ~14.6 ppg EMW. This setting depth should give sufficient fracture gradient to achieve drilling to total well depth of 17,500' md/tvd.

A 10-5/8" x 12-1/4" hole will be drilled to 17,500 ft tvd at well TD. After POOH, the 9-7/8" liner will be run and cemented in place with Halliburton Class-H lead and tail slurries. A Leak-off Test (LOT) will be performed after drilling out. The estimated fracture gradient is ~15.0 ppg EMW. This setting depth should give sufficient fracture gradient to achieve drilling to total well depth of 20,200' md/tvd.

A 8-1/2" x 9-7/8" hole will be drilled to TD at 20,200' tvd. The need for wireline evaluation of this interval will be determined by real time LWD data. A decision on the way forward will be made following evaluation of the open hole interval. The well will either be P&A'd or temporarily abandoned for future completion. Once the final evaluation program is complete, a decision will be made as to whether to sidetrack, TA well, or PA the well.

Notes:

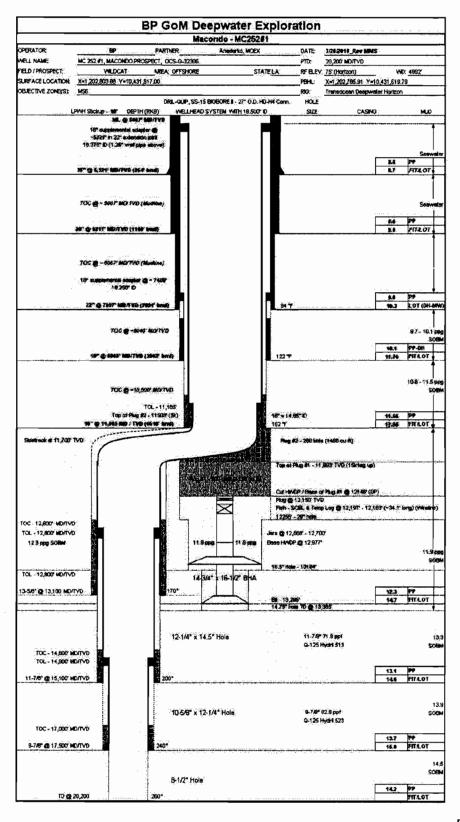
MWD and LWD will be used in all intervals to assist with directional control, formation evaluation and pore pressure detection. Additionally, PWD will be utilized to monitor downhole static mud weights, equivalent circulating densities as well as assist in optimizing downhole hydraulics. All intervals below the 22" casing include optional wireline evaluation programs. Execution of these evaluation programs will be based on real time LWD, paleo and pore pressure data. During the drilling of all hole sections, the rig shall maintain a minimum inventory of 1000 sx of barite and 200 sx of gel/poly at all times.

MC 252 #1 Bypass 1 OCS-G-32306 Attachment 9 B. Morel / M. Hafle / B.Cocales 3/26/10

MMS Application for Permit to Drill

Attachment 3 Wellbore Diagram

MC 252 #1 OCS-G-32306 Attachment 3



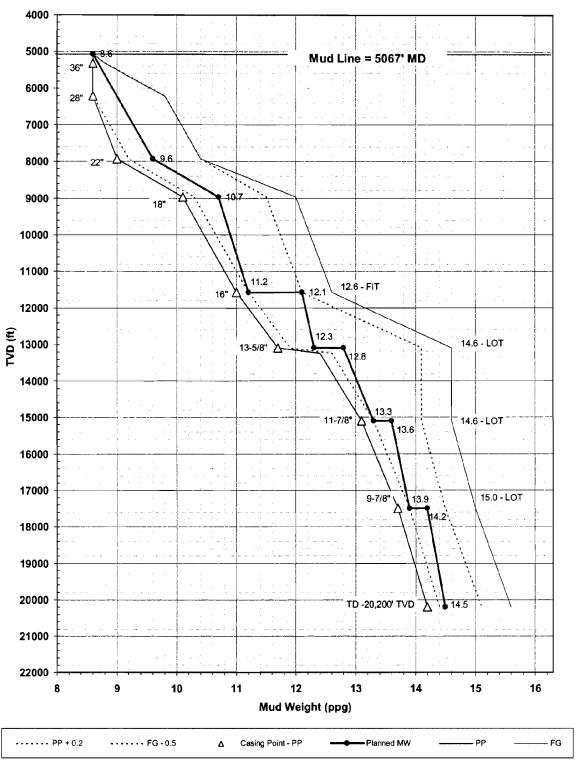
MC 252 #1 OCS-G-32306 Attachment 3

MMS Application for Permit to Drill

Attachment 2 Pressure Profile

MC 252 #1 OCS-G-32306 Attachment 2

MC 252 #1 BP01 - Macondo Prospect



MC 252 #1 OCS-G-32306 Attachment 2

