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

### Form MMS 123A/123S - Electronic Version

# **Application for Revised Bypass**

Lease G32306	Area/Block MC 252 Well Name 001		Exploration					
Application Status	Approved <b>Operator</b> 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.	Exhibit No.4411					
	Revised data includes: - directional - wellbore schematic - pore pressure chart - procedure		Worldwide Court Reporters, Inc.					
	01-25-10 -							
	1) Revise Annular Pressure test from 5000 p	si 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 Ho shipyard for repairs, no longer under BP con		sent to					
	Revised attachments include: 1) Horizon BOP schematic 2) Wellbore schematic with revised RKB 3) Revised Departure List (removed departure 4) Revised Pore Pressure Plot with Horizon I							
	The casing information has been upated to re	eflect actual setting depths, mudweights, et	с.					
	Attachments referring to the Marianas BOPs	and mooring have been removed.						
	10-29-09 - Revised to show shallow setting d	lepth and revised cement volume for the 18"	casing.					
	Revision I: 10-15-09 This RPD is to request approval to replace the standard element rated to 10k on 5-1/2" pipe and 10k on 6-5/8".							
	Please see the attached chart which shows	the rating of each element. Our max annula	ar tests per					
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Lease	G32306	Area/Block	MC 252	Well Na	ame	001	ST	00	BP	01	Well Type	Exploration
Applica	tion Status	Approved	Ор	erator	0248	31	BP Explo	oration	& P	roduc	ction Inc.	

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

### **General Well Information**

API Number 608174116901	Approval Date 03/26/2010	Approved By Frank Patton
Date of Request 03/25/2010	Req Spud Date 03/16/2010	Kickoff Point
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 Coordinate
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 Departur	res 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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Lease	G32306	Area/Block	MC 252	Well Na	me	001	ST	00	BP	01	Well Type	Exploration
Applicati	ion Status	Approved	(	Operator	0248	1	BP Expl	oration	& Pr	oduc	tion Inc.	

### **Geologic Information**

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

### **Rig Information**

RIG SPECIFICATIONS		ANCHORS	No			
Rig Name	T.O. DEEPWATER HORIZON					
Туре	SEMISUBMERSIBLE	ID Number	46428			
Function	DRILLING	<b>Constucted Year</b>	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						

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

LeaseG32306Area/BlockMC 252Well Name001ST 00BP 01Well TypeExplorationApplication StatusApprovedOperator02481BP 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		
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		

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### Form MMS 123A/123S - Electronic Version

Application	for Rev	vised	Bypass
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Lease	G32306	Area/Block	MC 252	Well Na	me	001	<b>ST</b> 0	כ	BP	01	Well Type	Exploration	
Applica	tion Status	Approved	Oper	ator	0248	1	BP Exploi	ation	& Pi	roduc	tion Inc.		

### **Permit Attachments**

File Type	File Description	Status
		*****

Required A	ttachments	
pdf	Drilling prognosis and summary of drilling, cementing, and mud processes	Attached
Optional/Su	upplemental Attachments	
pdf	Wellbore Schematic	Attached
PDF	Application for Permit to Drill	Attached
pdf	Pore Pressure Graph	Attached
pdf	Directional plan	Attached

#### **Contacts Information**

Name	Scherie Douglas	
Company	02481	BP Exploration & Production Inc.
Phone Number	281-366-6843	
E-mail Address	scherie.douglas@	)bp.com
<b>Contact Description</b>	Regulatory	
Name	Heather Powell	
Company	02481	BP Exploration & Production Inc.
Phone Number	281-504-0984	
E-mail Address	heather.powell@b	p.com
Contact Description	Regulatory	

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

Lease	G32306	Area/Block	MC 252	Well Na	ame	001	ST	00	BP	01	Well Type	Exploration
Applicat	tion Status	Approved	Оре	rator	0248	1	BP Explo	oration	& Pi	roduc	tion Inc.	

### Well Design Information

Interval N	lumber 1	<b>Туре</b> Са	sing		Name	Conduc	ctor		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Der MD	pth (ft) TVD	Pore Pressu (ppg)	ure
1	28.000	218.0	X-52	2437	952	6217	6217	8.6	
GENERAL	INFORMATI	ON	PREVE	INTER INFORM	ATION	TEST	INFORM	ATION	
Hole Size (i	in)	32.500	Туре		No Preventers	Annul	ar Test (psi	i) O	
Mud Weigh	t (ppg)	8.6	Size (in	)	N/A	BOP/	Diverter Te	st (psi) 0	
Mud Type C	Code	Gelled Sea Water	Weilhe	ad Rating (psi)	0	Test F	luid Weigh	it (ppg) 0	0.0
Fracture G	radient (ppg)	9.8	Annula	r Rating (psi)	0	Casin	g/Liner Tes	st (psi) 0	
Liner Top D	Depth (ft)		BOP/D	iverter Rating (p	si) ()	Forma	ation Test (	<b>ppg)</b> 0	0.0
Cement Vol	ume (cuft)	4636							

Interval N	lumber 2	<b>Type</b> Ca	sing		Name	Surface	Э			
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	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 INFORMATION			PREVE	PREVENTER INFORMATION			TEST INFORMATION			
Hole Size (i	in)	26.000	Туре		Blowout	Annul	ar Test (psi	i) 5000		
Mud Weigh	t (ppg)	9.5	Size (in	)	18.75	BOP/C	Diverter Te	<b>st (psi)</b> 6500		
Mud Type C	Code \	Vater Base	Wellhea	ad Rating (psi)	15000	Test F	luid Weigh	t (ppg) 8.6		
Fracture G	radient (ppg)	10.5	Annula	r Rating (psi)	10000	Casing	g/Liner Tes	st (psi) 3400		
Liner Top D	Depth (ft)		BOP/D	iverter Rating (ps	<b>i)</b> 15000	Forma	tion Test (	p <b>pg)</b> 10.5		
Cement Vol	ume (cuft)	6301								

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

Lease	G32306	Area/Block	MC 252	Well Na	me	001	ST	00	BP	01	Well Type	Exploration
Applicat	tion Status	Approved	Oper	rator	0248	1	BP Expl	oration	& P	roduc	tion Inc.	

Interval N	lumber 3	<b>Type</b> Lir	ner		Name	Intermediate			
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Dep MD	oth (ft) TVD		ressure pg)
1	18.000	117.0	P-110	6680	2110	8969	8969		10.1
GENERAL INFORMATION			PREVE	PREVENTER INFORMATION			INFORM	ATION	
Hole Size (	in)	22.000	Туре		Blowout	Annuia	ar Test (psi	i)	3500
Mud Weigh	t (ppg)	10.2	Size (in	)	18.75	BOP/D	Diverter Te	st (psi)	6500
Mud Type	Code	Synthetic Base	Weilhea	ad Rating (psi)	15000	Test F	luid Weigh	t (ppg)	10.2
Fracture G	radient (ppg)	11.8	Annula	r Rating (psi)	10000	Casing	g/Liner Tes	st (psi)	3000
Liner Top I	Depth (ft)	7489.0	BOP/D	iverter Rating (p	i) 15000	Forma	tion Test (	ppg)	11.8
Cement Vo	lume (cu ft)	993							

Interval N	umber 4	Type Ca	Casing Name				Intermediate			
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Burst Rating Grade		Collapse Rating (psi)	Dep MD	oth (ft) TVD	Pore Pressure (ppg)		
1	16.000	97.0	P-110	6920	2340	11585	11585		11.0	
GENERAL	INFORMATI	NC	PREVE	PREVENTER INFORMATION			TEST INFORMATION			
Hole Size (i	n)	20.000	Туре	Type Blowout		Annular Test (psi)			3500	
Mud Weigh	t (ppg)	11.2	Size (in	)	18.75	BOP/I	Diverter Te	st (psi)	6500	
Mud Type C	Code	Synthetic Base	Weilhea	ad Rating (psi)	15000	Test F	luid Weigh	t (ppg)	11.2	
Fracture G	adient (ppg)	13.0	Annula	r Rating (psi)	10000	Casing	g/Liner Tes	it (psi)	3600	
Liner Top D	)epth (ft)		BOP/Di	verter Rating (pa	si) 15000	Forma	tion Test (	ppg)	13.0	
Cement Vol	ume (cuft)	1120								

Interval N	lumber 5	<b>Type</b> Lir	er		Name	Interme	ediate		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	De; MD	pth (ft) TVD		Pressure opg)
1	13.625	88.2	Q-125	10030	4800	13145	13145		11.7
GENERAL	INFORMATI	ON	PREVE	INTER INFORM	ATION	TEST	INFORM	ATION	
Hole Size (	in)	16.000	Туре		Blowout	Annul	ar Test (psi	)	3500
Mud Weigh	it (ppg)	12.3	Size (in	1)	18.75	BOP/I	Diverter Te	st (psi)	6500
Mud Type	Code	Synthetic Base	Wellhea	ad Rating (psi)	15000	Test F	luid Weigh	t (ppg)	12.1
Fracture G	radient (ppg)	14.7	Annula	r Rating (psi)	10000	Casin	g/Liner Tea	st (psi)	2500
Liner Top I	Depth (ft)	11153.0	BOP/D	iverter Rating (p	si) 15000	Forma	ation Test (	ppg)	14.7
Cement Vo	lume (cu ft)	410							

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## Form MMS 123A/123S - Electronic Version

Application	for I	Revised	l Bypass
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Lease	G32306	Area/Block	MC 252 V	Vell Nan	ne 001	ST	00	BP	01	Well Type	Exploration
Applicat	tion Status	Approved	Opera	itor	02481	BP Exp	loration	& Pi	roduc	ction Inc.	

Interval N	lumber 6	<b>Type</b> Lir	ier		Name	Intermediate				
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	De MD	pth (ft) 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	Туре		Blowout	Annul	i) 3500			
Mud Weigh	t (ppg)	13.3	Size (in	)	18.75	BOP/	st (psi) 6500			
Mud Type	Code	Synthetic Base	Wellhea	ad Rating (psi)	15000	Test F	luid Weigh	t (ppg) 13.3		
Fracture G	radient (ppg)	14.6	Annula	r Rating (psi)	10000	Casin	g/Liner Tes	i <b>t (psi)</b> 1800		
Liner Top Depth (ft) 12800.0		BOP/Di	verter Rating (p	si) 15000	Formation Test (ppg)		<b>ppg)</b> 14.6			
Cement Vo	lume (cu ft)	340								

Interval Number 7		Type Lin	ner	Name Intermediate						
Section Casing Size Number (in)		Casing Weight (lb/ft)	Casing Burst Rating Grade		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)			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)		t (psi)	1000		
Liner Top Depth (ft) 14900.0		14900.0	BOP/Diverter Rating (p		si) 15000	Formation Test (ppg)		opg)	15.0	
Cement Vol	ume (cuft)	160								

Interval Number 8		Туре Ор	en Hole	Name Open Hole						
Section Casing Size Number (in)		Casing Weight Casing (lb/ft) Grade		Burst Rating	Collapse Rating (psi)	De MD	pth (ft) TVD		Pore Pressure (ppg)	
1						20211	20200		14.2	
GENERAL		N	PREVENTER INFORMATION			TEST INFORMATION				
Hole Size (in) 12.25		12.250	Туре		Blowout	Annular Test (psi) 350				
Mud Weight (ppg) 14.4		14.4	Size (in	1)	18.75	BOP/Diverter Test (psi) 6500				
Mud Type Code Synthetic Base		Wellhe	ad Rating (psi)	15000	Test Fluid Weight (ppg) 0.0					
Fracture Gradient (ppg) 16.1			Annula	r Rating (psi)	10000	Casing/Liner Test (psi) 0			0	
Liner Top Depth (ft)			BOP/D	iverter Rating (p	si) 15000	Formation Test (ppg) 0.			0.0	
Cement Volume (cu ft)										

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

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

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

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

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#### 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



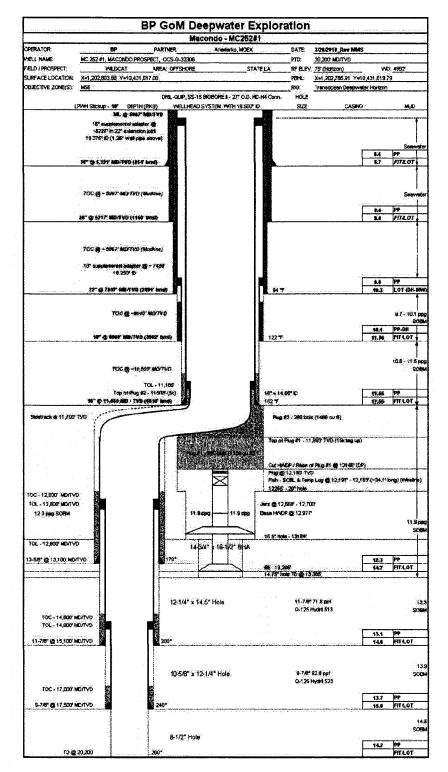
**MMS Application for Permit to Drill** 

Attachment 3 Wellbore Diagram

MC 252 #1 OCS-G-32306 Attachment 3 Brian Morel 3/26/10

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Brian Morel 3/26/10

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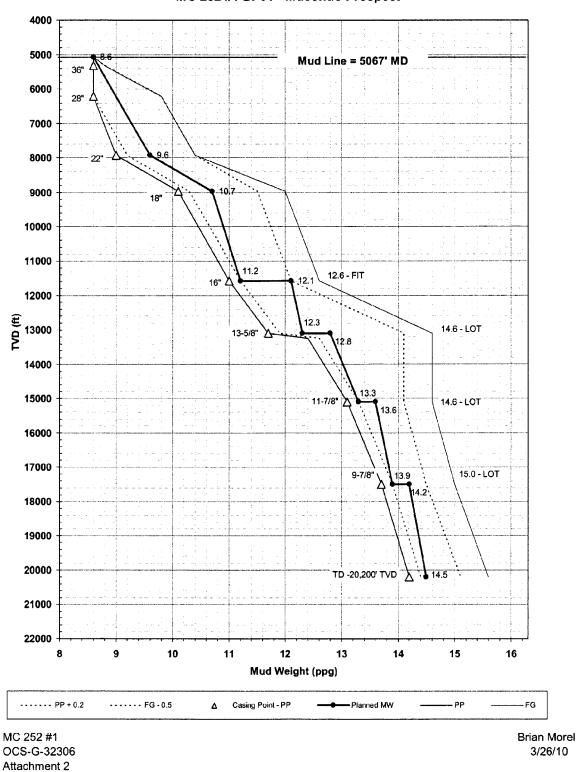
**MMS Application for Permit to Drill** 

Attachment 2 Pressure Profile

MC 252 #1 OCS-G-32306 Attachment 2 Brian Morel 3/26/10

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MC 252 #1 BP01 - Macondo Prospect

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ST00.BP0 \_\_\_\_\_\_South(-)/North(+) (150 ft/in) --225 --300 -150 225 吃 HALLIBURTON BURN DIRE Wayne Courville 75 Target 225 V\$60 148.52 18.52 Targer Dera LEVW Northing Easting Shape 5.55 : 14431619.79 : 1202793.33 & Gride (Padus: 200.00) To convert a Megnetic Direction is a Grd Dreaction, Subtract () 30° 15-Mar-10 150 Longitude -88.366 TFace 0,00 (70.49 0,00 75 in the st 4992.00 Last Reported Svy:15081.00MD, 23354.26TVD 0.00 0.00 0.00 0.00 0.00 0 95% conf. 75.00AZI-Water Depth; West(-)/East(+) (150 ft/in) -75 11.07, March 25 2010 Latifude 28.738 +E/W 143.67 142.02 17.97 -150 Surface Location. SN 846 846 846 846 R K B @ 75.000 (Deepwater Horzon) -225 Easting 1202808.88 -4.49N/S, -17.97E/W TVD 15070 26 1628239 20187156 873 -300 end. Azi 241.45 76.00 76.00 -375 TVD 18386.00 1919 1919 Projection from 15081 MD Northing 10431612.00 Zone IGN (98 W to 84 W) NAD-1927 (NADCON CONUS) -450 1.50 the Ë 525 c MD 15081.00 15293.75 20200.00 Name -- M56 Sec ÷ 0, 0 Last Reported Svy:15081.00MD, 23354.26TVD TD: 20200.00MD, 20187.56TVD 700 1400 2100 2800 Vertical Section at 255.98° (1400 ft/in) 1.50 Inc. 0 M56\_\_\_ -700 -1400 13300-17500-18200-19600-20300-21000-11200-11900-12600--00681 14000-10500 -

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