



Macondo Exploration Well	Mississippi Canyon 252#1
OCS-G-32306	API#: 60817411690000
Rig: Transocean Deepwater Horizon	Spud date: 10/6/2009

**Present Operation:** Well control – killing well with 12.3 ppg mud

Finish circulation of 12.1 ppg kill mud. Observe well, SIDPP = 100-120 psi, SICP = 150 psi. Weight up active pits to 12.3 ppg and circulate same. Max gas 1321 units and max mud cut of 11.6 ppg. Gas levels dropped from ~1200 to ~600 units

EXHIBIT  
1332

## Mississippi Canyon 252 #1

Gas Type	Depth (MD)	Total Gas Units	C1 (ppm)	C2 (ppm)	C3 (ppm)	TC4 (ppm)	TC5 (ppm)	Notes:
Max gas	12,093'	1411	518436	1628	229	0	0	
Bkgd. Gas								
Conn Gas								
Conn Gas								
Trip gas								

Mud Properties					
Depth (tvd)	ESD / ECD (ppg)	Mud Type	Surface MW (ppg)	Pore Press. (ppg) (est)	Comments
13,305'	12.33 / 12.40	SOBM	11.9	12.5	From kick
<b>Pressure Indicators:</b> There was still pressure on the choke after 12.1 ppg circulated around, kill well with 12.3 ppg mud.					
<b>Targets:</b>		<u>Prognosis (TVD)</u>	<u>Actual (TVD)</u>	<u>+/- (ft)</u>	<u>Comments</u>
		8283' - 8448'	8240'-8435'	-43/-13	pp: ~ 9.4 ppg
Sand-prone		8842' - 9039'	8866'-8968'	+24/-71	Kick @ 8970' Well flow @ 8970'
M56		18,475'			
FTD		19,635'			

**BHA:** 14 3/4" x 16 1/2" Hole Section

**BHA # 9:** 14 3/4" PDC bit Hughes QD507, 10" GeoPilot, 14 5/8" IB stabiliser, non-mag flex joint, non-mag x/o sub, 9 1/2" M5 - Res, 14 5/8" IB stabiliser, 9 1/2" QBAT Sonic, 9 1/2" Pulser, filter sub, 14 5/8" IB stabiliser, 16 1/2" Baker Reamer, 1 x 9 1/2" DC, 14 5/8" IB stabiliser, 2 x 9 1/2" DC, x/o sub, 3 x 8 1/4" DC, pony collar, wear sleeve bit sub, x/o sub, 10 x 6 5/8" HWDP, 8" Jars, 20 x 6 5/8" HWDP.

**Comments:**

**24 Hour Prognosis:** Well control. Circulate 12.3 ppg around via Drillers Method. Spot a 200 bbl balanced cement plug of 16.4 ppg cement. Pull pipe to 12,000' md and circ BU. POOH.

<b>Geologist</b>	Stuart Lacy	<b>Time:</b>	6:00 AM
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**DAILY GEOLOGICAL REPORT**

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<b>OCS-G-32306</b>	<b>API#: 60817411690000</b>
<b>Rig: Transocean Deepwater Horizon</b>	<b>Spud date: 10/6/2009</b>

Well No.	MC 252 #1	KB (ft):	75'	WD (ft):	4992'	Date:	Mar 15, 2010
Current TD (ft MD)	13,305'	Int. drilled (ft):	0'	Dev. (deg)	0.50°	Azi. (deg)	187.6°
Current TD (ft TVD)	13,304.5'	Avg. ROP (ft/hr):		@ MD (ft)	13,164'	@ TVD (ft)	13,163.45'
Csg Shoe	36" casing	5,335' md	Riserless				
Csg Shoe	28" casing	6,217' md	Riserless				
Csg Shoe	22" casing	7,937' md	LOT = 10.46 ppg surface (with hole @ 8,000' 8010' & 8059' )				
Lnr Shoe	18" liner	9,969' md	LOT = 11.78 ppg surface. Max surf. Pressure = 550 psi				
Csg Shoe	16" casing	11,585' md	FIT = 12.55 ppg surface / 12.67 ppg downhole. 631 psi surf.				
Lnr Shoe	13 5/8" liner		Planned @ 15,300' md				
Lnr Shoe	11 3/4" liner		Contingency liner				

**Present Operation:** Well control – setting cement plug

**Activity last 24 hrs (5am to 5am):**

Finished killing well with 12.3 ppg mud - no pressure on choke. Displace riser with 12.3 ppg mud. Open up BOP's and observe well on trip tank - well stable. Just starting to circulate BU. Circulated bottoms up - max gas 1530 units but dropped to a background of 180 units. Observed well on trip tank for 30 mins - well static. Circulating BU again to observe shut down gas. Circulated to observe shut down gas - 629 units. Rigged up cement unit and pumped spacer & cement then displaced same. POOH slowly to 11,837' md. Dropped nerf ball and circulate - max gas 1580 units with an 11.9 mud cut. Gas levels now down to 125 units.

[illegible]



Gas								
Gas Type	Depth (MD)	Total Gas Units	C1 (ppm)	C2 (ppm)	C3 (ppm)	TC4 (ppm)	TC5 (ppm)	Notes:
Max gas								
Bkgd. Gas								
P's off Gas	12,093'	1580	573279	515	125	0	0	From pump shut down
Conn Gas								
Conn Gas								
Trip gas								

Mud Properties					
Depth (tvd)	ESD / ECD (ppg)	Mud Type	Surface MW (ppg)	Pore Press. (ppg) (est)	Comments
13,305'	12.33 / 12.40	SOBM	11.9	12.5	From kick
<b>Pressure Indicators:</b> No pressure on choke after killing well with 12.3 ppg mud however shut down gas was 629 units from a background of 180 units.					
<b>Targets:</b>	<b>Prognosis (TVD)</b>	<b>Actual (TVD)</b>	<b>+ / - (ft)</b>	<b>Comments</b>	
	8283' – 8448'	8240'-8435'	-43/-13	pp: ~ 9.4 ppg	
Sand-prone	8842' – 9039'	8866'-8968'	+24/-71	Kick @ 8970' Well flow @ 8970'	
M56	18,475'				
FTD	19,635'				

**BHA: 14 3/4" x 16 1/2" Hole Section**

**BHA # 9:** 14 3/4" PDC bit Hughes QD507, 10" GeoPilot, 14 5/8" IB stabiliser, non-mag flex joint, non-mag x/o sub, 9 1/2" M5 - Res, 14 5/8" IB stabiliser, 9 1/2" QBAT Sonic, 9 1/2" Pulser, filter sub, 14 5/8" IB stabiliser, 16 1/2" Baker Reamer, 1 x 9 1/2" DC, 14 5/8" IB stabiliser, 2 x 9 1/2" DC, x/o sub, 3 x 8 1/4" DC, pony collar, wear sleeve bit sub, x/o sub, 10 x 6 5/8" HWDP, 8" Jars, 20 x 6 5/8" HWDP.

**Comments:**

- Blocky / angular cavings came up with the high gas – these are likely from the rathole below the shoe.

**24 Hour Prognosis:** Circulate BU. POOH to casing shoe @ 11,585' md. WOC 6 hrs – start testing choke manifold. TIH to top of cement @ 11,850' and tag with 15k. POOH into casing shoe. Circulate. Test BOP's.

<b>Geologist</b>	Stuart Lacy	<b>Time:</b>	6:00 AM
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Csg Shoe	22" casing	7,937' md	LOT = 10.46 ppg surface (with hole @ 8,000' 8010' & 8059' )				
Lnr Shoe	18" liner	9,969' md	LOT = 11.78 ppg surface. Max surf. Pressure = 550 psi				
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Lnr Shoe	13 5/8" liner		Planned @ 15,300' md				
Lnr Shoe	11 3/4" liner		Contingency liner				

**Present Operation:** Well control – setting cement plug

**Activity last 24 hrs (5am to 5am):**

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<b>Geologist</b>	Stuart Lacy	<b>Time:</b>	6:00 AM
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<b>Well No.</b>	<b>MC 252 #1</b>	<b>KB (ft):</b>	<b>75'</b>	<b>WD (ft):</b>	<b>4992'</b>	<b>Date:</b>	<b>Mar 16, 2010</b>
<b>Current TD (ft MD)</b>	<b>13,305'</b>	<b>Int. drilled (ft):</b>	<b>0'</b>	<b>Dev. (deg)</b>	<b>0.50°</b>	<b>Azi. (deg)</b>	<b>187.6°</b>
<b>Current TD (ft TVD)</b>	<b>13,304.5'</b>	<b>Avg. ROP (ft/hr):</b>		<b>@ MD (ft)</b>	<b>13,164'</b>	<b>@ TVD (ft)</b>	<b>13,163.45'</b>
<b>Csg Shoe</b>	<b>36" casing</b>	<b>5,335' md</b>	<b>Riserless</b>				
<b>Csg Shoe</b>	<b>28" casing</b>	<b>6,217' md</b>	<b>Riserless</b>				
<b>Csg Shoe</b>	<b>22" casing</b>	<b>7,937' md</b>	<b>LOT = 10.46 ppg surface (with hole @ 8,000' 8010' &amp; 8059' )</b>				
<b>Lnr Shoe</b>	<b>18" liner</b>	<b>9,969' md</b>	<b>LOT = 11.78 ppg surface. Max surf. Pressure = 550 psi</b>				
<b>Csg Shoe</b>	<b>16" casing</b>	<b>11,585' md</b>	<b>FIT = 12.55 ppg surface / 12.67 ppg downhole. 631 psi surf.</b>				
<b>Lnr Shoe</b>	<b>13 5/8" liner</b>						
<b>Lnr Shoe</b>	<b>11 3/4" liner</b>		<b>Contingency liner</b>				

**Present Operation:** TIH with 3.5" tubing

**Activity last 24 hrs (5am to 5am):**

Circulate while waiting on cement. TIH to tag top of cement @ 8 am - cement not yet firm. Wait on cement until 9.30 am and tag again - hard cement. Pull up into casing and start BOP testing. Complete BOP testing. POOH with drill pipe. TIH with 3.5" tubing for second cement plug.

[illegible]

Gas								
Gas Type	Depth (MD)	Total Gas Units	C1 (ppm)	C2 (ppm)	C3 (ppm)	TC4 (ppm)	TC5 (ppm)	Notes:
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**Comments:**

- Pore pressure personnel (Kate Paine) will arrive on the rig tomorrow

**24 Hour Prognosis:** TIH with 3.5" tubing. Set cement plug. POOH. Pick up 14 3/4" x 16 1/2" drilling BHA.

<b>Geologist</b>	Stuart Lacy	<b>Time:</b>	6:00 AM
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<b>Lnr Shoe</b>	<b>11 3/4" liner</b>		<b>Contingency liner</b>				

**Present Operation:** Slipping & cutting drill line.

**Activity last 24 hrs (5am to 5am):**

TIH with 3.5" tubing for second cement plug. Circulate BU, max gas 131 units, trace blocky cavings on BU. Pump spacer and cement and displace same with no losses. Pull up to 11,150' md and circulate nerf ball and BU. POOH with 3.5" tubing. Lay down tubing. Currently slipping & cutting drill line.

[illegible]



Gas								
Gas Type	Depth (MD)	Total Gas Units	C1 (ppm)	C2 (ppm)	C3 (ppm)	TC4 (ppm)	TC5 (ppm)	Notes:
Max gas	11,893'	131	56640	0	0	0	0	
Bkgd. Gas								
Conn Gas								
Conn Gas								
Trip gas								

Mud Properties					
Depth (tvd)	ESD / ECD (ppg)	Mud Type	Surface MW (ppg)	Pore Press. (ppg) (est)	Comments
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<b>Pressure Indicators:</b> Hole currently cemented off.					
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**Comments:**

- MWD Run 1100 bit to sensor distances: GR @ bit = 6.06' Survey = 28.99' PWD = 36.55'  
GR = 37.26' Vibration = 39.10' M-5 Res = 46.43' Sonic = 74.64' Reamer 116' behind the bit
- We will be using the GR @ bit as this is a short section

**24 Hour Prognosis:** Pick up 14 3/4" x 16 1/2" drilling BHA. TIH and shallow hole test MWD. TIH to top of cement and dill same. Dress off cement to 11,645' md (WOC if not hard). Cut mud weight from 12.3 ppg to 12.1 ppg. Kick well off and build angle to 10 deg. At 270 deg azimuth then drop to vertical. Open reamer and drill to 13,150' md keeping ECD below 12.5 ppg.

<b>Geologist</b>	Stuart Lacy	<b>Time:</b>	6:00 AM
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Gas Type	Depth (MD)	Total Gas Units	C1 (ppm)	C2 (ppm)	C3 (ppm)	TC4 (ppm)	TC5 (ppm)	Notes:
Max gas								
Bkgd. Gas		30						
Conn Gas								
Conn Gas								
Trip gas								

Mud Properties					
Depth (tvd)	ESD / ECD (ppg)	Mud Type	Surface MW (ppg)	Pore Press. (ppg) (est)	Comments
11,839'	12.35 / 12.44	SOBM	12.1	11.8	
<b>Pressure Indicators:</b> No gains / losses on drilling out of cement.					
<b>Targets:</b>		<b>Prognosis (TVD)</b>	<b>Actual (TVD)</b>	<b>+ / - (ft)</b>	<b>Comments</b>
		8283' - 8448'	8240'-8435'	-43/-13	pp: ~ 9.4 ppg
Sand-prone		8842' - 9039'	8866'-8968'	+24/-71	Kick @ 8970' Well flow @ 8970'
M56		18,475'			
FTD		19,635'			

**BHA: 14 3/4" x 16 1/2" Hole Section**

**BHA # 10:** 14 3/4" PDC bit Hughes QD507, 10" GeoPilot, 14 5/8" IB stabiliser, non-mag flex joint, non-mag x/o sub, 9 1/2" M5 - Res, 14 5/8" IB stabiliser, 9 1/2" QBAT Sonic, 9 1/2" Pulser, filter sub, 14 5/8" IB stabiliser, 16 1/2" Baker Reamer, 1 x 9 1/2" DC, 14 5/8" IB stabiliser, 2 x 9 1/2" DC, x/o sub, 3 x 8 1/4" DC, pony collar, wear sleeve bit sub, x/o sub, 10 x 6 5/8" HWDP, 8" Jars, 20 x 6 5/8" HWDP.

**Comments:**

- MWD Run 1100 bit to sensor distances: GR @ bit = 6.06' Survey = 28.99' PWD = 36.55'  
GR = 37.26' Vibration = 39.10' M-5 Res = 46.43' Sonic = 74.64' Reamer 116' behind the bit
- We will be using the GR @ bit as this is a short section
- Kick off point appears to be 11,700' md from surveys and samples
- Wellsite Geologist crew change today, Stuart Lacy off, Gord Bennett on.

**24 Hour Prognosis:** Drill 14 3/4" x 16 1/2" hole to 13,150' md.

<b>Geologist</b>	Stuart Lacy	<b>Time:</b>	6:00 AM
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**DAILY GEOLOGICAL REPORT**

<b>Macondo Exploration Well</b>	<b>Mississippi Canyon 252#1</b>
<b>BP01</b>	
<b>OCS-G-32306</b>	<b>API#:</b>
<b>60817411690000</b>	
<b>Rig: Transocean Deepwater Horizon</b>	<b>Spud date: 10/6/2009</b>

<b>Well No.</b>	<b>MC252 #1 BP01</b>	<b>KB (ft):</b>	<b>75'</b>	<b>WD (ft):</b>	<b>4992'</b>	<b>Date:</b>	<b>Mar 18, 2010</b>
<b>Current TD (ft MD)</b>	<b>11,839'</b>	<b>Int. drilled (ft):</b>	<b>139'</b>	<b>Dev. (deg)</b>	<b>3.15°</b>	<b>Azi. (deg)</b>	<b>267.85°</b>
<b>Current TD (ft TVD)</b>	<b>11,838.3'</b>	<b>Avg. ROP (ft/hr):</b>	<b>60</b>	<b>@ MD (ft)</b>	<b>11,796'</b>	<b>@ TVD (ft)</b>	<b>11,795.38'</b>
<b>Csg Shoe</b>	36" casing	5,335' md	Riserless				
<b>Csg Shoe</b>	28" casing	6,217' md	Riserless				
<b>Csg Shoe</b>	22" casing	7,937' md	LOT = 10.46 ppg surface (with hole @ 8,000' 8010' & 8059' )				
<b>Lnr Shoe</b>	18" liner	9,969' md	LOT = 11.78 ppg surface. Max surf. Pressure = 550 psi				
<b>Csg Shoe</b>	16" casing	11,585' md	FIT = 12.55 ppg surface / 12.67 ppg downhole. 631 psi surf.				
<b>Lnr Shoe</b>	13 5/8" liner						
<b>Lnr Shoe</b>	11 3/4" liner		Contingency liner				

**Present Operation:** Drilling 14 3/4" x 16 1/2" hole

**Activity last 24 hrs (5am to 5am):**

Make up 14 3/4" x 16 1/2" BHA and TIH to 4086' md. Shallow hole test MWD - OK. TIH to 11,555' md - no firm cement. WOC. Wash & ream to 11,600' md with no signs of hard cement, start kicking off from this depth, kick off confirmed by samples and surveys at being at 11,700' md. Drilled to 11,839' md, drop ball and open reamer. Drill ahead.

[illegible]



Gas								
Gas Type	Depth (MD)	Total Gas Units	C1 (ppm)	C2 (ppm)	C3 (ppm)	TC4 (ppm)	TC5 (ppm)	Notes:
Max gas								
Bkgd. Gas		30						
Conn Gas								
Conn Gas								
Trip gas								

Mud Properties					
Depth (tvd)	ESD / ECD (ppg)	Mud Type	Surface MW (ppg)	Pore Press. (ppg) (est)	Comments
11,839'	12.35 / 12.44	SOBM	12.1	11.8	
<b>Pressure Indicators:</b> No gains / losses on drilling out of cement.					
<b>Targets:</b>	<b>Prognosis (TVD)</b>	<b>Actual (TVD)</b>	<b>+ / - (ft)</b>	<b>Comments</b>	
	8283' - 8448'	8240'-8435'	-43/-13	pp: ~ 9.4 ppg	
Sand-prone	8842' - 9039'	8866'-8968'	+24/-71	Kick @ 8970' Well flow @ 8970'	
M56	18,475'				
FTD	19,635'				

**BHA: 14 3/4" x 16 1/2" Hole Section**

**BHA # 10:** 14 3/4" PDC bit Hughes QD507, 10" GeoPilot, 14 5/8" IB stabiliser, non-mag flex joint, non-mag x/o sub, 9 1/2" M5 - Res, 14 5/8" IB stabiliser, 9 1/2" QBAT Sonic, 9 1/2" Pulser, filter sub, 14 5/8" IB stabiliser, 16 1/2" Baker Reamer, 1 x 9 1/2" DC, 14 5/8" IB stabiliser, 2 x 9 1/2" DC, x/o sub, 3 x 8 1/4" DC, pony collar, wear sleeve bit sub, x/o sub, 10 x 6 5/8" HWDP, 8" Jars, 20 x 6 5/8" HWDP.

**Comments:**

- MWD Run 1100 bit to sensor distances: GR @ bit = 6.06' Survey = 28.99' PWD = 36.55'  
GR = 37.26' Vibration = 39.10' M-5 Res = 46.43' Sonic = 74.64' Reamer 116' behind the bit
- We will be using the GR @ bit as this is a short section
- Kick off point appears to be 11,700' md from surveys and samples
- Wellsite Geologist crew change today, Stuart Lacy off, Gord Bennett on.

**24 Hour Prognosis:** Drill 14 3/4" x 16 1/2" hole to 13,150' md.

<b>Geologist</b>	Stuart Lacy	<b>Time:</b>	6:00 AM
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## DAILY GEOLOGICAL REPORT

<b>Macondo Exploration Well</b>	<b>Mississippi Canyon 252#1</b>
<b>BP01</b>	
<b>OCS-G-32306</b>	<b>API#:</b>
<b>60817411690000</b>	
<b>Rig: Transocean Deepwater Horizon</b>	<b>Spud date: 10/6/2009</b>

<b>Well No.</b>	<b>MC252 #1 BP01</b>	<b>KB (ft):</b>	<b>75'</b>	<b>WD (ft):</b>	<b>4992'</b>	<b>Date:</b>	<b>Mar 19, 2010</b>
<b>Current TD (ft MD)</b>	<b>13,150'</b>	<b>Int. drilled (ft):</b>	<b>1311'</b>	<b>Dev. (deg)</b>	<b>1.29°</b>	<b>Azi. (deg)</b>	<b>264.67°</b>
<b>Current TD (ft TVD)</b>	<b>13,139.4'</b>	<b>Avg. ROP (ft/hr):</b>	<b>60</b>	<b>@ MD (ft)</b>	<b>13,034'</b>	<b>@ TVD (ft)</b>	<b>13,023.40'</b>
<b>Csg Shoe</b>	<b>36" casing</b>	<b>5,335' md</b>	<b>Riserless</b>				
<b>Csg Shoe</b>	<b>28" casing</b>	<b>6,217' md</b>	<b>Riserless</b>				
<b>Csg Shoe</b>	<b>22" casing</b>	<b>7,937' md</b>	<b>LOT = 10.46 ppg surface (with hole @ 8,000' 8010' &amp; 8059' )</b>				
<b>Lnr Shoe</b>	<b>18" liner</b>	<b>9,969' md</b>	<b>LOT = 11.78 ppg surface. Max surf. Pressure = 550 psi</b>				
<b>Csg Shoe</b>	<b>16" casing</b>	<b>11,585' md</b>	<b>FIT = 12.55 ppg surface / 12.67 ppg downhole. 631 psi surf.</b>				
<b>Lnr Shoe</b>	<b>13 5/8" liner</b>						
<b>Lnr Shoe</b>	<b>11 3/4" liner</b>		<b>Contingency liner</b>				

**Present Operation:** Finished drilling 14 3/4" x 16 1/2" hole. Circulating bottoms up at 13 5/8" liner point.

**Activity last 24 hrs (5am to 5am):**

Drilled 14 3/4" x 16 1/2" hole from 11,839' md to 12,654' md. Started increasing MW to 12.2 ppg while drilling ahead to 12,793' md. Started increasing MW to 12.3 ppg while drilling ahead. Continued drilling to 13,150' md TD. Circulating bottoms up at 5am.

<b>Depth Interval MD</b>	<b>Sample Description</b>
<b>11,780' – 11,900' md</b>	<b>60 % SHALE:</b> light to medium gray, very slightly calcareous <b>20 - 30% SILTSTONE &amp; SANDSTONE:</b> light grey, silt to fine grained <b>10 - 20 % Cement cavings</b>
<b>11,900' – 12,020' md</b>	<b>SHALE &amp; MARL:</b> medium grey to dark brown, marly when dark brown, silty in part, thin Siltstone stringers.
<b>12,020' – 12,140' md</b>	<b>80% SHALE:</b> medium gray, slightly calcareous, silty. <b>10 - 20% SANDSTONE:</b> light to medium grey, very fine to fine grained, poor to fair intergranular porosity, minor bitumen, no fluorescence or cut.
<b>12,140' – 12,290' md</b>	<b>90% SHALE:</b> medium gray, slightly calcareous, silty; thin light brown Shale laminations. <b>10 - 20% SANDSTONE:</b> light to medium grey, silt to very fine grained, poor to fair intergranular porosity
<b>12,290' – 12,320' md</b>	<b>SHALE &amp; Increasing MARL:</b> medium grey, marly when light grey, silty in part, thin Siltstone stringers.
<b>12,320' – 12,380' md</b>	<b>60% SHALE:</b> medium grey, thin Siltstone stringers <b>40% MARLSTONE:</b> light grey, very argillaceous
<b>12,380' – 12,440' md</b>	<b>80% SHALE:</b> medium grey, thin Siltstone stringers <b>10 - 20% MARLSTONE:</b> light grey, very argillaceous
<b>12,440' – 12,500' md</b>	<b>SHALE:</b> as above with thin Marlstone stringers



12,500' – 12,560' md	<b>20 - 30% Cement or Sandstone?</b> light brown to light grey, stains purple with phenolphthalein <b>20% SILTSTONE:</b> medium grey, very argillaceous <b>60% SHALE:</b> medium grey, very calcareous grading to Marlstone
12,560' – 12,740' md	<b>SHALE &amp; MARL:</b> light to medium grey
12,740' – 12,900' md	<b>SHALE &amp; minor MARL:</b> medium grey
12,900' – 12,980' md	<b>40% SILTSTONE:</b> medium grey, very argillaceous <b>60% SHALE:</b> medium grey, slightly to moderately calcareous

Gas								
Gas Type	Depth (MD)	Total Gas Units	C1 (ppm)	C2 (ppm)	C3 (ppm)	TC4 (ppm)	TC5 (ppm)	Notes:
Max gas	12,926	161	75281	-	-	-	-	
Bkgd. Gas		30 - 50						
Conn Gas	12,655	63 / 45						MW 12.1 ppg
Conn Gas	12,792	None						MW 12.2 ppg
Conn Gas	12,931	None						
Trip gas								

Mud Properties					
Depth (tvd)	ESD / ECD (ppg)	Mud Type	Surface MW (ppg)	Pore Press. (ppg) (est)	Comments
13,139'	12.53 / 12.64	SOBM	12.3	12.2 Sh / 12.5 Ss	Based on Res and Sonic
<b>Pressure Indicators:</b> Flowchecks were negative and flowbacks were normal. No losses or gains were observed during drilling. A connection gas was observed with a MW of 12.1 ppg. The MW was increased to 12.2ppg by the next connection and no connection gas was observed. No subsequent connection gases were observed to casing point @ 13,150' md. No significant amount of cavings observed.					
<b>Targets:</b>	<u>Prognosis (TVD)</u>	<u>Actual (TVD)</u>	<u>+ / - (ft)</u>	<u>Comments</u>	
	8283' – 8448'	8240'-8435'	-43/-13	pp: ~ 9.4 ppg	
Sand-prone	8842' – 9039'	8866'-8968'	+24/-71	Kick @ 8970' Well flow @ 8970'	
M56	18,475'				
FTD	19,635'				

**BHA: 14 3/4" x 16 1/2" Hole Section**

**BHA # 10:** 14 3/4" PDC bit Hughes QD507, 10" GeoPilot, 14 5/8" IB stabiliser, non-mag flex joint, non-mag x/o sub, 9 1/2" M5 - Res, 14 5/8" IB stabiliser, 9 1/2" QBAT Sonic, 9 1/2" Pulser, filter sub, 14 5/8" IB stabiliser, 16 1/2" Baker Reamer, 1 x 9 1/2" DC, 14 5/8" IB stabiliser, 2 x 9 1/2" DC, x/o sub, 3 x 8 1/4" DC, pony collar, wear sleeve bit sub, x/o sub, 10 x 6 5/8" HWDP, 8" Jars, 20 x 6 5/8" HWDP.



**Comments:**

- MWD Run 1100 bit to sensor distances: GR @ bit = 6.06' Survey = 28.99' PWD = 36.55'  
GR = 37.26' Vibration = 39.10' M-5 Res = 46.43' Sonic = 74.64' Reamer 116' behind the bit
- No significant hydrocarbon shows observed in this drilled interval.

**24 Hour Prognosis:** Circulate hole clean. POOH and lay down BHA. Rig up to run 13 5/8" liner.**Geologist**

Gord Bennett

**Time:**

6:00 AM



## DAILY GEOLOGICAL REPORT

Macondo Exploration Well BP01 OCS-G-32306 60817411690000 Rig: Transocean Deepwater Horizon				Mississippi Canyon 252#1 API#: Spud date: 10/6/2009			
Well No.	MC252 #1 BP01	KB (ft):	75'	WD (ft):	4992'	Date:	Mar 19, 2010
Current TD (ft MD)	13,150'	Int. drilled (ft):	1311'	Dev. (deg)	1.29°	Azi. (deg)	264.67°
Current TD (ft TVD)	13,139.4'	Avg. ROP (ft/hr):	60	@ MD (ft)	13,034'	@ TVD (ft)	13,023.40'
Csg Shoe	36" casing	5,335' md	Riserless				
Csg Shoe	28" casing	6,217' md	Riserless				
Csg Shoe	22" casing	7,937' md	LOT = 10.46 ppg surface (with hole @ 8,000' 8010' & 8059' )				
Lnr Shoe	18" liner	9,969' md	LOT = 11.78 ppg surface. Max surf. Pressure = 550 psi				
Csg Shoe	16" casing	11,585' md	FIT = 12.55 ppg surface / 12.67 ppg downhole. 631 psi surf.				
Lnr Shoe	13 5/8" liner						
Lnr Shoe	11 3/4" liner		Contingency liner				

**Present Operation:** Finished drilling 14 3/4" x 16 1/2" hole. Circulating bottoms up at 13 5/8" liner point.

**Activity last 24 hrs (5am to 5am):**

Drilled 14 3/4" x 16 1/2" hole from 11,839' md to 12,654' md. Started increasing MW to 12.2 ppg while drilling ahead to 12,793' md. Started increasing MW to 12.3 ppg while drilling ahead. Continued drilling to 13,150' md TD. Circulating bottoms up at 5am.

Depth Interval MD	Sample Description
11,780' – 11,900' md	<b>60 % SHALE:</b> light to medium gray, very slightly calcareous <b>20 - 30% SILTSTONE &amp; SANDSTONE:</b> light grey, silt to fine grained <b>10 - 20 % Cement cavings</b>
11,900' – 12,020' md	<b>SHALE &amp; MARL:</b> medium grey to dark brown, marly when dark brown, silty in part, thin Siltstone stringers.
12,020' – 12,140' md	<b>80% SHALE:</b> medium gray, slightly calcareous, silty. <b>10 - 20% SANDSTONE:</b> light to medium grey, very fine to fine grained, poor to fair intergranular porosity, minor bitumen, no fluorescence or cut.
12,140' – 12,290' md	<b>90% SHALE:</b> medium gray, slightly calcareous, silty; thin light brown Shale laminations. <b>10 - 20% SANDSTONE:</b> light to medium grey, silt to very fine grained, poor to fair intergranular porosity
12,290' – 12,320' md	<b>SHALE &amp; Increasing MARL:</b> medium grey, marly when light grey, silty in part, thin Siltstone stringers.
12,320' – 12,380' md	<b>60% SHALE:</b> medium grey, thin Siltstone stringers <b>40% MARLSTONE:</b> light grey, very argillaceous
12,380' – 12,440' md	<b>80% SHALE:</b> medium grey, thin Siltstone stringers <b>10 - 20% MARLSTONE:</b> light grey, very argillaceous
12,440' – 12,500' md	<b>SHALE:</b> as above with thin Marlstone stringers

12,500' – 12,560' md	20 - 30% <b>Cement or Sandstone?</b> light brown to light grey, stains purple with phenolphthalein 20% <b>SILTSTONE</b> : medium grey, very argillaceous 60% <b>SHALE</b> : medium grey, very calcareous grading to Marlstone
12,560' – 12,740' md	<b>SHALE &amp; MARL</b> : light to medium grey
12,740' – 12,900' md	<b>SHALE &amp; minor MARL</b> : medium grey
12,900' – 12,980' md	40% <b>SILTSTONE</b> : medium grey, very argillaceous 60% <b>SHALE</b> : medium grey, slightly to moderately calcareous

Gas								
Gas Type	Depth (MD)	Total Gas Units	C1 (ppm)	C2 (ppm)	C3 (ppm)	TC4 (ppm)	TC5 (ppm)	Notes:
Max gas	12,926	161	75281	-	-	-	-	
Bkgd. Gas		30 - 50						
Conn Gas	12,655	63 / 45						MW 12.1 ppg
Conn Gas	12,792	None						MW 12.2 ppg
Conn Gas	12,931	None						
Trip gas								

Mud Properties					
Depth (tvd)	ESD / ECD (ppg)	Mud Type	Surface MW (ppg)	Pore Press. (ppg) (est)	Comments
13,139'	12.53 / 12.64	SOBM	12.3	12.2 Sh / 12.5 Ss	Based on Res and Sonic
<b>Pressure Indicators:</b> Flowchecks were negative and flowbacks were normal. No losses or gains were observed during drilling. A connection gas was observed with a MW of 12.1 ppg. The MW was increased to 12.2ppg by the next connection and no connection gas was observed. No subsequent connection gases were observed to casing point @ 13,150' md. No significant amount of cavings observed.					
<b>Targets:</b>	<b>Prognosis (TVD)</b>	<b>Actual (TVD)</b>	<b>+ / - (ft)</b>	<b>Comments</b>	
Sand-prone	8283' – 8448'	8240'-8435'	-43/-13	pp: ~ 9.4 ppg	
M56	8842' – 9039'	8866'-8968'	+24/-71	Kick @ 8970' Well flow @ 8970'	
FTD	18,475'				
	19,635'				

<b>BHA: 14 3/4" x 16 1/2" Hole Section</b>
<b>BHA # 10:</b> 14 3/4" PDC bit Hughes QD507, 10" GeoPilot, 14 5/8" IB stabiliser, non-mag flex joint, non-mag x/o sub, 9 1/2" M5 - Res, 14 5/8" IB stabiliser, 9 1/2" QBAT Sonic, 9 1/2" Pulsar, filter sub, 14 5/8" IB stabiliser, 16 1/2" Baker Reamer, 1 x 9 1/2" DC, 14 5/8" IB stabiliser, 2 x 9 1/2" DC, x/o sub, 3 x 8 1/4" DC, pony collar, wear sleeve bit sub, x/o sub, 10 x 6 5/8" HWDP, 8" Jars, 20 x 6 5/8" HWDP.



**Comments:**

- MWD Run 1100 bit to sensor distances: GR @ bit = 6.06' Survey = 28.99' PWD = 36.55'  
GR = 37.26' Vibration = 39.10' M-5 Res = 46.43' Sonic = 74.64' Reamer 116' behind the bit
- No significant hydrocarbon shows observed in this drilled interval.

**24 Hour Prognosis:** Circulate hole clean. POOH and lay down BHA. Rig up to run 13 5/8" liner.

<b>Geologist</b>	Gord Bennett	<b>Time:</b>	6:00 AM
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Location Well	Mississippi Canyon 252#1
	API#:
Deepwater Horizon	Spud date: 10/6/2009

**Present Operation:** Running in hole with 13 5/8" liner

Circulated bottoms up at TD. Flowcheck- negative. Increased MW in hole to 12.4 ppg. Pumped out of the hole from 13,150 to 11,826' md. POOH to 11,054', worked through KOP twice. Flowcheck – negative. Pumped 14.5 ppg slug. Continued to POOH and laid down 14 3/4 x 16 1/2" BHA. Clean and cleared rig floor. Rigged up 13 5/8" casing handling equipment. Picked up and ran shoe joint, centralizer joints and float collar joint. RIH with 13 5/8" liner to 1,010' md at 5am.

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Gas								
Gas Type	Depth (MD)	Total Gas Units	C1 (ppm)	C2 (ppm)	C3 (ppm)	TC4 (ppm)	TC5 (ppm)	Notes:
Max gas								
Bkgd. Gas		20 - 30						While increasing MW in hole to 12.4 ppg.
Conn Gas								
Conn Gas								
Conn Gas								
Trip gas								

Mud Properties					
Depth (tvd)	ESD / ECD (ppg)	Mud Type	Surface MW (ppg)	Pore Press. (ppg) (est)	Comments
13,139	12.65 / 12.73	SOBM	12.4	12.2 Sh / 12.5 Ss	Based on Res and Sonic
<b>Pressure Indicators:</b> Flowchecks were negative and flowbacks were normal. No losses or gains were observed while circulating and increasing MW to 12.4 ppg. Hi - Vis sweep was completed with very little amount of cavings coming over the shaker, indicating no hole problems.					
<b>Targets:</b>	<u>Prognosis (TVD)</u>	<u>Actual (TVD)</u>	<u>+/- (ft)</u>	<u>Comments</u>	
	8283' - 8448'	8240'-8435'	-43/-13	pp: ~ 9.4 ppg	
Sand-prone	8842' - 9039'	8866'-8968'	+24/-71	Kick @ 8970' Well flow @ 8970'	
M56	18,475'				
FTD	19,635'				

**BHA:**

**Comments:**

**24 Hour Prognosis:** Finish RIH with 13 5/8 liner. Set liner. Circulate around liner. Perform cement job.

**Geologist** Gord Bennett **Time:** 6:00 AM