

## DAILY GEOLOGICAL REPORT

<b>Macondo Exploration Well</b> <b>OCS-G-32306</b> <b>Rig: Transocean Marianas</b>	<b>Mississippi Canyon 252#1</b> <b>API#: 60817411690000</b> <b>Spud date: 10/6/2009</b>
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Well No.	MC 252 #1	KB (ft):	89'	WD (ft):	4992'	Date:	10/23/2009
Current TD (ft MD)	8050	Int. drilled (ft)	50'	Dev. (deg)	0.12	Azi. (deg)	180.97
Current TD (ft TVD)	8040.50	Avg. ROP (ft/hr):	44	@ MD (ft)	7935	@ TVD (ft)	7934.76
CSG Shoe	36" casing	5335'					
CSG Shoe	28" casing	6231'					
CSG Shoe	22" casing	7952'					
CSG Shoe	Next 18" casing	Plan 9900'					
CSG Shoe	16" casing						
LNR Shoe	13 3/8" liner						

### Present Operation:

POOH to perform cement squeeze.

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

P/U BHA #3 with 18 1/8" Bit & 22" Reamer. TIH, wash & Ream from 2 stand above to TOC.  
 Displace Well from sea water SBOM.  
 Drill out cement from 7826' and float equipment, 10' new FM to 8,011' (8010.88' TVD)  
 Test line. Perform LOT. Failure to get a good LOT. Min.10.24 psi; Máx.10.37 psi; Ave.10.28 psi EMW.  
 Circulate with LCM and try LOT. The ESDs post-LCM test were 10.26/10.26/10.40 ppg  
 Cup MW to 9.7 ppg and drill to 8050' (8049.77 TVD) Look at samples & logs.  
 Circulate B/u POOH.  
 RIH with diverter sup to squeeze 22" casing shoe.

### Sample Descriptions

<b>8000' - 8020'</b>	<b>Shale: 95-100%</b> Mostly light grey, occasionally olive light grey, no calcareous, fossiliferous in parts, occasional slightly silty, rarely sandy grain, firm to hard, moderately compact to well compacted. Non-fissile, mostly blocky micro-blocky, rough to gritty structure. <b>Siltstone: 5%</b> Lithic siltstone. Light grey, occasionally very light greenish grey, very fine grain (0.060 – 0.002 mm) with transition to silty Shale. Well sorted, no visible accessories, slightly calcareous in parts, well consolidated well indurated, no visible intra-granular porosity. No visible oil stain, no visible oil florescence.
<b>8020 – 8050'</b>	<b>Shale: 100%</b> Mostly light grey, occasionally olive light grey, no calcareous, fossiliferous in parts, occasional slightly silty, rarely sandy grain, firm to hard, moderately compact to well compacted. Non-fissile, mostly blocky micro-blocky, rough to gritty structure. <b>Siltstone: TR</b> Lithic. Light grey, light greenish grey, very fine grain to silty Shale. Well sorted, no visible accessories, slightly calcareous in parts, well consolidated well indurated, no visible intra-granular porosity. No visible oil stain, no visible oil florescence.
<b>NOTE:</b>	A planispiral involute Benthic Foraminifera was found.

MC 252 #1 - Macondo

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Exhibit No.

3064

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BP-HZN-2179MDL00058342

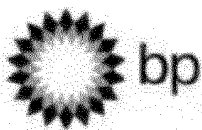
BPD111-001150

Gas								
Gas Type	Total Gas (U)	Depth (MD)	C1 (ppm)	C2 (ppm)	C3 (ppm)	TC4 (ppm)	TC5 (ppm)	Notes:
Max gas	28	8011	7133	0	0	0	0	
Bkgd gas	1-12	To 8050	22	0	0	0	0	
PU gas								
Conn gas								
Trip gas	28	8011	7133	0	0	0	0	

Mud Properties					
Depth (tvd)	ESD / ECD (ppg)	Mud Type	Surface MW (ppg)	Pore Press. (ppg) (est)	Comments
8010	10.28/ 10.26	SYN.OBM	10.0	9.0-9.2	
8049	9.91/9.97	SYN.OBM	9.7	9.0-9.2	
<b>Pressure Indicators:</b> Any indicator of hole instability					
<b>Targets:</b>	<u>Prognosis (TVD)</u>	<u>Actual (TVD)</u>	<u>+ / - (ft)</u>	<u>Comments</u>	
	8283' – 8448'			pp: ~9.5 ppg	
Sand-prone	8842' – 9039'			Rigel 252@8900' pipe stuck. Pp:9.8	
	9453' – 9699'			pp: ~10.2 ppg	

<b>BHA:</b> PDC Bit: 18 1/8" Nozzles: 2 x 16, 5 x 15, TFA: 1.26 Reamer: 22" 3 x 8 TFA: 147 Sensor Distance: PD Gamma = 8.55'; PD D&L= 11.16'; PWD = 27.57', Resistivity = 29.90' Gamma: 29.17'; D&I = 57.13' Stabilizer mid points: PD Bias = 2.83'; RSS = 18.98' Telescope Stab. = 42.64' 22" Reamer= 90.38'; 19 1/2" Reamer = 135.30' DP Size (OD- ID- grade): 6 5/8"– 4 5/8"- S135 & 5 1/2"- S135					
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<b>Comments:</b> BP Wellsite geosciences support starting at 22" casing shoe. Before RIH new BHA, was held a meeting with Sperry Mud-loggers discussed the logging, evaluation and sample requirements for this hole section. Also checked equipments calibration. Reported LOT was 10.38 ppg based on 10.0 MW.			
<b>24 Hour Prognosis:</b> Finish RIH with cementing diverter sub and Squeeze 22" casing shoe. POOH w/ diverter sub.			
<b>Geologist</b>	JORGE VIERA	<b>Time:</b>	5:30 AM



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<b>Macondo Exploration Well</b> <b>OCS-G-32306</b> <b>Rig: Transocean Marianas</b>	<b>Mississippi Canyon 252#1</b> <b>API#: 60817411690000</b> <b>Spud date: 10/6/2009</b>
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<b>Well No.</b>	<b>MC 252 #1</b>	<b>KB (ft):</b>	89'	<b>WD (ft):</b>	4992'	<b>Date:</b>	10/24/2009
<b>Current TD (ft MD)</b>	8050	<b>Int. drilled (ft)</b>	0	<b>Dev. (deg)</b>	0.12	<b>Azi. (deg)</b>	180.97
<b>Current TD (ft TVD)</b>	8040.50	<b>Avg. ROP (ft/hr):</b>	0	<b>@ MD (ft)</b>	7935	<b>@ TVD (ft)</b>	7934.76
<b>CSG Shoe</b>	36" casing	5335'					
<b>CSG Shoe</b>	28" casing	6231'					
<b>CSG Shoe</b>	22" casing	7952'	26" hole @ 8000' LOT: 10.38 ppg EMW @ 7962' TVD				
<b>CSG Shoe</b>	Next 18" casing	Plan 9900'	Current hole w/ 18 1/8" x 22"				
<b>CSG Shoe</b>	16" casing						
<b>LNR Shoe</b>	13 3/8" liner						

### Present Operation:

Holding pressure at report time.

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

Finish POOH & L/D BHA  
 Pick up Diverter sub & TIH to 6' above casing shoe.  
 Circulate. Finish RIH with diverter sub and squeeze.  
 Holding pressure.

### Sample Descriptions

**8020 – 8050'**  
**Last B/Up Sample**

**Shale:** 100% Mostly light grey, occasionally olive light grey, no calcareous, fossiliferous in parts, occasional slightly silty, rarely sandy grain, firm to hard, moderately compact to well compacted. Non-fissile, mostly blocky micro-blocky, rough to gritty structure. A planispiral involute shell from Benthic Foraminifera was found I shale.

**Siltstone:** TR Lithic. Light grey, light greenish grey, very fine grain to silty Shale. Well sorted, no visible accessories, slightly calcareous in parts, well consolidated well indurated, no visible intra-granular porosity. No visible oil stain, no visible oil florescence.

### Gas

Gas Type	Total Gas (U)	Depth (MD)	C1 (ppm)	C2 (ppm)	C3 (ppm)	TC4 (ppm)	TC5 (ppm)	Notes:
Max gas	6	8050						
Bkgd gas	2							
PU gas	2							
Conn gas	-							
Trip gas	6	8050						

Mud Properties					
Depth (tvd)	ESD / ECD (ppg)	Mud Type	Surface MW (ppg)	Pore Press. (ppg) (est)	Comments
8010	10.28/ 10.26	SYN.OBM	10.0	9.0-9.2	
8049	9.91/9.97	SYN.OBM	9.7	9.0-9.2	For detail, see report PPFG
<b><u>Pressure Indicators:</u></b> Any indicator of hole instability					
<b><u>Targets:</u></b>		<u>Prognosis</u> (TVD)	<u>Actual</u> (TVD)	<u>+ / -</u> (ft)	<u>Comments</u>
Sand-prone		8283' – 8448'			pp: ~9.5 ppg
		8842' – 9039'			Rigel 252@8900' pipe stuck. Pp:9.8
		9453' – 9699'			pp: ~10.2 ppg

<b>BHA:</b> Diverter sub with 5 ½" DP.
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<b><u>Comments:</u></b>			
<b><u>24 Hour Prognosis:</u></b>			
POOH and pick up #3 BHA & RIH to drill cement.			
<b>Geologist</b>	JORGE VIERA	<b>Time:</b>	5:30 AM



## DAILY GEOLOGICAL REPORT

Macondo Exploration Well 252#1 OCS-G-32306 Rig: Transocean Marianas	Mississippi Canyon API#: 60817411690000 Spud date: 10/6/2009
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Well No.	MC 252 #1	KB (ft):	89'	WD (ft):	4992'	Date:	10/25/2009
Current TD (ft MD)	8060	Int. drilled (ft)	10	Dev. (deg)	0.12	Azi. (deg)	180.97
Current TD (ft TVD)	8059.50	Avg. ROP (ft/hr):	80	@ MD (ft)	7935	@ TVD (ft)	7934.76
CSG Shoe	36" casing	5335'					
CSG Shoe	28" casing	6231'					
CSG Shoe	22" casing	7952'	26" hole @ 8000' LOT: 10.38 ppg EMW @ 7962' TVD				
CSG Shoe	Next 18" casing	Plan 9900'	Current hole w/ 18 1/8" x 22"				
CSG Shoe	16" casing						
LNR Shoe	13 3/8" liner						

### Present Operation:

Testing line to perform LOT

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

POOH after squeeze and hold pressure.  
Finish POOH L/D Diverter sub.  
Pick up BHA # 4 (re entry) & RIH to drill cement  
10:30 PM TOC @ 7719'. Wash and drill out cement and 10' new FM.  
Circulate and clean hole @ 8060'  
Test line at present time.

### Sample Descriptions

**8040'– 8050'**  
**Last B/Up Sample**

**Shale:** 100% Mostly light grey, occasionally olive light grey, no calcareous, fossiliferous in parts, occasional slightly silty, rarely sandy grain, firm to hard, moderately compact to well compacted. Non-fissile, mostly blocky micro-blocky, rough to gritty structure. A planispiral involute shell from Benthic Foraminifera was found in shale.

**Siltstone:** TR Lithic. Light grey, light greenish grey, very fine grain to silty Shale. Well sorted, no visible accessories, slightly calcareous in parts, well consolidated well indurated, no visible intra-granular porosity. No visible oil stain, no visible oil florescence.

**Note: 5:30 AM**

No B/Up sample.

### Gas

Gas Type	Total Gas (U)	Depth (MD)	C1 (ppm)	C2 (ppm)	C3 (ppm)	TC4 (ppm)	TC5 (ppm)	Notes:
Max gas	11	8060						
Bkgd gas	5	8060	To 8060					
PU gas								
Conn gas								

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Trip gas	11	8060					
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Mud Properties					
Depth (tvd)	ESD / ECD (ppg)	Mud Type	Surface MW (ppg)	Pore Press. (ppg) (est)	Comments
8010	10.28/ 10.26	SYN.OBM	10.0	9.0-9.2	
8049	9.91/9.97	SYN.OBM	9.7	9.0-9.2	For detail, see report PPFG
<b><u>Pressure Indicators:</u></b>					
Any indicator of hole instability					
<b><u>Targets:</u></b>		<u>Prognosis</u> (TVD)	<u>Actual</u> (TVD)	<u>+ / -</u> (ft)	<u>Comments</u>
Sand-prone		8283' – 8448'			pp: ~9.5 ppg
		8842' – 9039'			Rigel 252@8900' pipe stuck. Pp:9.8
		9453' – 9699'			pp: ~10.2 ppg

<b>BHA:</b> PDC Bit: 18 1/8" Nozzles: 2 x 16, 5 x 15, TFA: 1.26 Reamer: 22" 3 x 8 TFA: 147 Sensor Distance: PD Gamma = 8.55'; PD D&L= 11.16'; PWD = 27.57', Resistivity = 29.90' Gamma: 29.17'; D&I = 57.13' Stabilizer mid points: PD Bias = 2.83'; RSS = 18.98' Telescope Stab. = 42.64' 22" Reamer= 90.38'; 19 1/2" Reamer = 135.30' DP Size (OD- ID- grade): 6 5/8"– 4 5/8"- S135 & 5 1/2"- S135					
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<b>Comments:</b>  			
<b>24 Hour Prognosis:</b> Finish LOT. Drill out to the next casing point @ 9900'			
Geologist	JORGE VIERA	Time:	5:30 AM



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**Macondo Exploration Well  
252#1  
OCS-G-32306  
Rig: Transocean Marianas**

**Mississippi Canyon  
API#: 60817411690000  
Spud date: 10/6/2009**

<b>Well No.</b>	<b>MC 252 #1</b>	<b>KB (ft):</b>	89'	<b>WD (ft):</b>	4992'	<b>Date:</b>	10/26/2009
<b>Current TD (ft MD)</b>	8970	<b>Int. drilled (ft)</b>	920	<b>Dev. (deg)</b>	0.06	<b>Azi. (deg)</b>	86.6
<b>Current TD (ft TVD)</b>	8970	<b>Avg. ROP (ft/hr):</b>	75-85	<b>@ MD (ft)</b>	8776	<b>@ TVD (ft)</b>	8775.73
<b>CSG Shoe</b>	36" casing	5335'					
<b>CSG Shoe</b>	28" casing	6231'					
<b>CSG Shoe</b>	22" casing	7952'	LOT: 10.38 ppg. Hole @ 8000'; 8010' & 8059'				
<b>CSG Shoe</b>	Next 18" casing	Plan 9900'	Current hole w/ 18 1/8" x 22"				
<b>CSG Shoe</b>	16" casing						
<b>LNR Shoe</b>	13 3/8" liner						

### Present Operation:

Flow check @ 8970'

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

Test line & perform LOT  
Drill controlling ROP max to 75 ft/h.  
@ 8630' pump 100 bbl sweep 11.7 ppg continue drilling ahead.  
Raise MW to 9.8 ppg. Drill ahead.

### Sample Descriptions

<b>8020' – 8130'</b>	<b>Shale: 100%</b> Light grey, occasionally olive light grey, no calcareous, but some time slightly calcareous; slightly silty, rarely sandy grain, firm to hard, moderately compact to well compacted. Non-fissile, mostly blocky micro-blocky, rough to gritty structure. Some samples show traces of Silty Shale, light gray- light olive gray with no visible accessories, slightly calcareous in parts, well consolidated well indurated. No visible oil stain, no visible oil florescence on samples.
<b>8130' – 8240'</b>	<b>Shale: 90%</b> Still mostly light grey, occasionally olive light grey, no calcareous, in some time cuttings slightly calcareous; frequently silty, appear some sandy grain, firm to hard, moderately compact to well compacted. Non-fissile, mostly blocky micro-blocky, rough to gritty structure. Some samples show traces of Silty Sandy Shale, light gray- light olive gray, no visible accessories, slightly calcareous in parts, well consolidated well indurated. No oil stain, no visible oil florescence on samples. <b>Siltstone: 10%-TR</b> Lithic. Light very light gray, occasionally slightly calcareous, firm to well compacted, well sorted, sandy in parts, medium- well indurated, medium to well sorting, no visible inter-granular porosity, no oil stain, no fluorescence.
<b>8230' - 8300'</b>	<b>Shale: 80%</b> Traces of very light gray and occasionally more silty than before, but basically A/A <b>Sandstone: 20%</b> Lithic. Light very light gray, occasionally off white, medium to fine grain, frequently transition to siltstone, spherical- sub spherical, rounded to well rounded, slightly calcareous in part, poor cementation, well cemented in parts, poor

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	indurate, poor inter-granular porosity, no oil stain, mineral fluorescence, no cut. <b>Siltstone: 10%-TR</b> Lithic. Light very light gray, occasionally slightly calcareous, firm to well compacted, well sorted, shaly in parts, medium- well indurated, no visible inter-granular porosity, no oil stain, no fluorescence.
8300' – 8370'	<b>Shale: 90 %</b> Light grey, occasionally olive light grey, no calcareous, slightly calcareous in parts; also silty, rarely sandy grain, firm to hard, moderately compact to well compacted. Non-fissile, mostly blocky micro-blocky, rough to gritty structure. No visible oil stain, no visible oil fluorescence on samples. <b>Sandstone: 10% A/A</b> <b>Sandstone: TR</b> A/A but show more loses grain and poor indurate, like dusty silt.
8370' - 8440'	<b>Shale: 80-90%</b> Light gray to med gray, slightly calcareous in part, firm to moderated compact, non-fissile, blocky- micro blocky, tracers of waxi structure but more frequently rough to gritty. <b>Sandstone: 10-20%</b> Lithic, Light very light gray, occasionally off white, medium to fine grain, frequently transition to siltstone, spherical- sub spherical, rounded to well rounded, slightly calcareous in part, poor cementation, well cemented in gray cuttings, poor indurate, poor inter-granular porosity, no oil stain, mineral fluorescence, no cut. From 8410' to 8430' samples becomes with more Shale with intercalation of Silty-Sandstone.
8440' – 8480'	<b>Shale: 90-100 % A/A</b> <b>Sandstone: 10% TR</b> Light gray, very light grey, occasionally light greenish gray, slightly calcareous in pars, fine grain to siltstone, very silty in the end of the interval. No visible intra-granular porosity, no oil stain, poor mineral fluorescence, no cut.
8480' – 8670'	<b>Shale: 100 % A/A</b> <b>Sandstone: TR%</b> Light gray, very light grey, occasionally light greenish gray, slightly calcareous in pars, fine grain to siltstone, very silty in the end of the interval. No visible intra-granular porosity, no oil stain, mineral fluorescence, no cut.
8670' – 8810'	<b>Shale: 90-95 % A/A</b> <b>Sandstone: 5-10%</b> Light gray, very light gray, occasionally off white, slightly calcareous, medium fine grain, angular- sub-angular, mostly spherical, moderated sorting, poor cementation, occasionally unconsolidated, poorly indurated, poor inter-granular porosity, no oil stain, no oil fluorescence, no cut.
8810' - 8870'	<b>Shale: 100%</b> Light gray to med gray, slightly calcareous in part, firm to moderated compact, non-fissile, blocky- micro blocky, traces of splinty, tracers of waxi structure, frequently rough to gritty.
8870' – 8890'	<b>Shale: 10-20%</b> A/A more silty sandy. <b>Sandstone: 60-80%</b> Sublithic. Very light gray, off white, predominant medium grain, frequently medium to fine, sub-spherical to spherical, sub-angular, moderated sorting, traces light chert, siliceous- slightly calcareous cement, poor cementation, occasionally unconsolidated, poorly indurated, poor to fair inter-granular porosity, no oil stain, no oil fluorescence, no cut. <b>Siltstone: 10%</b> Lithic to Sublithic. Light very light gray, off white, occasionally slightly calcareous, firm to well compacted, well sorted, sandy in parts, medium- well indurate, medium to well sorting, no visible inter-granular porosity, no oil stain, no fluorescence. <b>Claystone: TR</b>
8890'- 8910' (Lag)	<b>Sandstone: 70%</b> Sublithic. Very light gray, off white, predominant medium grain, frequently medium to fine, sub-spherical to spherical, sub-angular, moderated sorting, traces light chert, siliceous- slightly calcareous cement, poor cementation, occasionally unconsolidated, poorly indurated, poor to fair inter-granular porosity, no oil stain, no oil fluorescence, no cut. <b>Claystone: 20%</b> (Mudstone-Wackestone)**Light greenish gray, occasionally off white, minor light cream – very light gray, calcareous to very calcareous, soft, plastic, occasionally very plastic with water, poor compacted, mostly micro-blocky, rough to gritty in part. Some time observed a fine grain of sand or/ ad silt as an intra clast. <b>Siltstone: 10%</b> Lithic to Sublithic. Light very light gray, off white, occasionally slightly calcareous, firm to well compacted, well sorted, sandy in parts, medium- well indurated, medium to well sorting, no visible inter-granular porosity, no oil stain, no fluorescence. <b>Shale: TR A/A</b>

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Base of 2 <sup>nd</sup> Sand prone is not drilled yet. **Dunham								
Gas								
Gas Type	Total Gas (U)	Depth (MD)	C1 (ppm)	C2 (ppm)	C3 (ppm)	TC4 (ppm)	TC5 (ppm)	Notes:
Max gas	161	8646'	35167	12.8	0	0	0	Sweep @ 8630'
Bkgd gas	3-8	8083						
Bkgd gas	8-15	8177						
Bkgd gas	10-29	8272						1er Sand Prone
Bkgd gas	22-30	8367						1er Sand Prone
Bkgd gas	18-38	8461						
Bkgd gas	15-40	8557						
Bkgd gas	35-80	8651						
Bkgd gas	118-80	8745						
Bkgd gas	51-70	8842	8910					Before 2er Sand Prone
PU gas								
Conn gas								
Trip gas								

Mud Properties					
Depth (tvd)	ESD / ECD (ppg)	Mud Type	Surface MW (ppg)	Pore Press. (ppg) (est)	Comments
8877	9.91/10.15	SYN.OBM	9.8	9.5-9.6	
8969	10./10.11	SYN.OBM	9.8	10.02	For detail, see report PPFPG
<b>Pressure Indicators:</b> Any indicator of hole instability					
<b>Targets:</b>	Prognosis (TVD)	Actual (TVD)	+ / - (ft)	Comments	
	8283' – 8448'	8240'-8435'	-43/-13	pp: ~ 9.4 ppg	
Sand-prone	8842' – 9039'	8870'-to drill	+28/	Rigel 252@8900' pipe stuck. Pp:9.8	
	9453' – 9699'			pp: ~10.2 ppg	

<b>BHA:</b> PDC Bit: 18 1/8" Nozzles: 2 x 16, 5 x 15, TFA: 1.26 Reamer: 22" 3 x 8 TFA: 147 Sensor Distance: PD Gamma = 8.55'; PD D&L= 11.16'; PWD = 27.57', Resistivity = 29.90' Gamma: 29.17'; D&I = 57.13' Stabilizer mid points: PD Bias = 2.83'; RSS = 18.98' Telescope Stab. = 43.54' 22" Reamer= 91.28'; 19 1/2" Reamer = 136.20' DP Size (OD- ID- grade): 6 5/8"- 4 5/8"- S135 & 5 1/2"- S135					
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<b>Comments:</b> No gas was associated to the connection lagged. Cutting size are very small and also contaminate with the cutting reamed ~90' above the bit.			
<b>24 Hour Prognosis:</b> Finish drill to casing point @ 9900'. Circulate and condition hole. Short trip 2000'. POOH			
<b>Geologist</b>	JORGE VIERA	<b>Time:</b>	5:30 AM



## DAILY GEOLOGICAL REPORT

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

<b>Well No.</b>	<b>MC 252 #1</b>	<b>KB (ft):</b>	89'	<b>WD (ft):</b>	4992'	<b>Date:</b>	10/27/2009
<b>Current TD (ft MD)</b>	8970.96	<b>Int. drilled (ft)</b>	0	<b>Dev. (deg)</b>	0.09	<b>Azi. (deg)</b>	9.44
<b>Current TD (ft TVD)</b>	8970.70	<b>Avg. ROP (ft/hr):</b>	0	<b>@ MD (ft)</b>	8868	<b>@ TVD (ft)</b>	8867.73
<b>CSG Shoe</b>	36" casing	5335'					
<b>CSG Shoe</b>	28" casing	6231'					
<b>CSG Shoe</b>	22" casing	7952'	LOT: 10.38 ppg. Hole @ 8000'; 8010' & 8059'				
<b>CSG Shoe</b>	Next 18" casing	Plan 9900'	Current hole w/ 18 1/8" x 22"				
<b>CSG Shoe</b>	16" casing						
<b>LNR Shoe</b>	13 3/8" liner						

### Present Operation:

Monitoring Well & Displace to 10.0 MW

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

Choke line; kill line circulating raise mud. Flow check while waiting to raise MW to 9.9 ppg.

### Sample Descriptions

<b>8890'- 8910'</b>	<p><b>Sandstone:</b> 70% Sublithic. Very light gray, off white, predominant medium grain, frequently medium to fine, sub-spherical to spherical, sub-angular, moderated sorting, traces light chert, siliceous- slightly calcareous cement, poor cementation, occasionally unconsolidated, poorly indutated, poor to fair inter-granular porosity, no oil stain, no oil fluorescence, no cut.</p> <p><b>Claystone:</b> 20% (Mudstone to Wackestone)**Light greenish gray, occasionally off white, minor light cream – very light gray, calcareous to very calcareous, soft, plastic, occasionally very plastic with water, poor compacted, mostly micro-blocky, rough to gritty in part. Some time observed a fine grain of sand or/ ad silt as an intra clast. Marl.</p> <p><b>Siltstone:</b> 10% Lithic to Sublithic. Light very light gray, off white, occasionally slightly calcareous, firm to well compacted, well sorted, sandy in parts, medium- well indutated, medium to well sorting, no visible inter-granular porosity, no oil stain, no fluorescence.</p> <p><b>Shale:</b> TR Light gray to med gray, traces off off white, slightly calcareous, calcareous in part, firm to moderated compact, non-fissile, blocky- micro blocky, traces of splinty, tracers of waxi structure, frequently rough to gritty.</p>
<b>8913' Spot Sample</b>	<b>A/A</b>

### Gas

Gas Type	Total Gas (U)	Depth (MD)	C1 (ppm)	C2 (ppm)	C3 (ppm)	TC4 (ppm)	TC5 (ppm)	Notes:
<b>Max gas</b>	230	8970						
<b>Bkgd gas</b>								

PU gas								
Conn gas								
Trip gas	230	8970						

Mud Properties					
Depth (tvd)	ESD / ECD (ppg)	Mud Type	Surface MW (ppg)	Pore Press. (ppg) (est)	Comments
8969	10./10.11	SYN.OBM	9.8	10.02	For detail, see report PPFG
<b>Pressure Indicators:</b> Any indicator of hole instability					
<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'-to drill	+24/	Rigel 252@8900' pipe stuck. Pp:9.8	
	9453' – 9699'			pp: ~10.2 ppg	

**BHA:**

PDC Bit: 18 1/8" Nozzles: 2 x 16, 5 x 15, TFA: 1.26 Reamer: 22" 3 x 8 TFA: 147

Sensor Distance: PD Gamma = 8.55'; PD D&L= 11.16'; PWD = 27.57', Resistivity = 29.90'

Gamma: 29.17'; D&I = 57.13'

Stabilizer mid points: PD Bias = 2.83'; RSS = 18.98' Telescope Stab. = 43.54'

22" Reamer= 91.28'; 19 1/2" Reamer = 136.20'

DP Size (CD- ID- grade): 6 5/8" – 4 5/8" - S135 & 5 1/2" - S135

**Comments:**

**24 Hour Prognosis:**

Displace to 10.0 Control the well and drill ahead to casing point.

<b>Geologist</b>	JORGE VIERA	<b>Time:</b>	5:30 AM
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## DAILY GEOLOGICAL REPORT

<b>Macondo Exploration Well</b> <b>252#1</b> <b>OCS-G-32306</b> <b>Rig: Transocean Marianas</b>	<b>Mississippi Canyon</b> <b>API#: 60817411690000</b> <b>Spud date: 10/6/2009</b>
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Well No.	MC 252 #1	KB (ft):	89'	WD (ft):	4992'	Date:	10/28/2009
Current TD (ft MD)	9090	Int. drilled (ft)	120	Dev. (deg)	0.06	Azi. (deg)	46.61
Current TD (ft TVD)	9089.75	Avg. ROP (ft/hr):	Control to ~50	@ MD (ft)	8931	@ TVD (ft)	8930.73
CSG Shoe	36" casing	5335'					
CSG Shoe	28" casing	6231'					
CSG Shoe	22" casing	7952'	LOT: 10.46 ppg. With hole @ 8000'; 8010' & 8059'				
CSG Shoe	Next 18" casing	8993' ?	Current hole w/ 18 1/8" @9090' x 22" @ 8993'				
CSG Shoe	16" casing						
LNR Shoe	13 3/8" liner						

### Present Operation:

Circulate & monitoring Well @ 9090' Casing point.

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

Kill well increase MW to 10.1 ppg. Monitoring Well control situation recording pressures.  
 Drill ahead maintain a 10.25 to 10.30 ppg ECD (Downhole) on the PWD  
 ROP controlled at 50 ft/h, flow-rate at 1200 gpm.  
 Circulate @ 9040' to reduced ECD from 10.30 to 10.20  
 Continue drilling reducing MW to 10 ppg.  
 @ 9077' Circulate and increased back MW to 10.1 ppg due well flowing.  
 Drill ahead to target casing point @ 9090 ft

### Sample Descriptions

<b>8890'- 8960'</b>	<p><b>Sandstone:</b> 70% Sublithic. Very light gray, off white, predominant medium grain, frequently medium to fine, sub-spherical to spherical, sub-angular, moderated sorting, traces light chert, siliceous- slightly calcareous cement, poor cementation, occasionally unconsolidated, poorly indutated, poor to fair inter-granular porosity, no oil stain, no oil fluorescence, no cut.</p> <p><b>Claystone:</b> 20-10% (Call in others well as Marl)) Light greenish gray, occasionally off white, minor light cream – very light gray, calcareous to very calcareous, soft, plastic, occasionally very plastic with water, poor compacted, mostly micro-blocky, rough to gritty in part. Some time observed a fine grain of sand or/ ad silt as an intra clast. From 8900' marl becoming lest calcareous and more compacted</p> <p><b>Siltstone:</b> 10-20% Lithic to Sublithic. Light very light gray, off white, occasionally slightly calcareous, firm to well compacted, well sorted, sandy in parts, medium- well indutated, medium to well sorting, no visible inter-granular porosity, no oil stain, no fluorescence.</p> <p><b>Shale:</b> TR Light gray to med gray, traces off off white, slightly calcareous, calcareous in part, firm to moderated compact, non-fissile, blocky- micro blocky, traces of splinty, tracers of waxy structure, frequently rough to gritty.</p>
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8960' – 9000'	<p><b>Shale:</b> 80-90% Med gray, minor light gray, slightly calcareous, less calcareous than before, firm to moderated compact, non-fissile, blocky- micro blocky, traces of splinty, occasionally waxy structure, frequently rough to gritty, slightly silty in part.</p> <p><b>Sandstone:</b> 10%- TR Sublithic. Light gray, off white, predominant medium to fine grain, medium to fine, sub-spherical to spherical, sub-angular, moderated sorting, traces light chert, siliceous- slightly calcareous cement, poor cementation to loose grain, unconsolidated, poorly indutated, poor to fair inter-granular porosity, no oil stain, no oil fluorescence, no cut.</p> <p><b>Siltstone:</b> 10% Sublithic. Light very light gray, off white, slightly calcareous, poor compacted, well sorted, sandy in parts, medium indutated, medium to well sorting, no visible inter-granular porosity, no oil stain, no fluorescence.</p>
9020' – 9080'	<p><b>Shale:</b> 80-90% Med gray to dark gray, minor light gray, more calcareous than before, firm to moderated compact, non-fissile, blocky- micro blocky, frequently splinty, traces waxy structure, minor rough to gritty, slightly silty in part.</p> <p><b>Sandstone:</b> 10%-TR More unconsolidated, abundant of lose grain. Sample contaminated with different kind of LCM.</p> <p><b>Siltstone:</b> 10%-TR A/A Loose grain in the bottom of sample ditches.</p> <p><b>Claystone:</b> (Marl) TR</p>
9080' – 9090'	<p><b>Shale:</b> 80% Med gray to dark gray, minor light gray, more calcareous than before, firm to moderated compact, non-fissile, blocky- micro blocky, frequently splinty, traces waxy structure, minor rough to gritty, slightly silty in part.</p> <p><b>Sandstone:</b> 10%-TR A/A</p> <p><b>Claystone:</b> 10% (Marl)) Light greenish gray, very light gray, calcareous to very calcareous, soft, plastic, occasionally very plastic with water, poor compacted, mostly micro-blocky, rough to gritty in part. Occasionally slightly silty in part.</p> <p><b>Siltstone:</b> TR A/A</p>

Gas								
Gas Type	Total Gas (U)	Depth (MD)	C1 (ppm)	C2 (ppm)	C3 (ppm)	TC4 (ppm)	TC5 (ppm)	Notes:
Max gas	234	8937						Over background 43 U
Bkgd gas	30-40		9090 ft					
PU gas		9045						pump off
Conn gas	234	8937						MW 10.1 ppg. Bckg 43
Conn gas	178	8971						MW 10.0 ppg. Bckg 35
Conn gas	209	9065						MW 10.1 ppg. Bckg 35
Trip gas	N/A							

Mud Properties					
Depth (tvd)	ESD / ECD (ppg)	Mud Type	Surface MW (ppg)	Pore Press. (ppg) (est)	Comments
9090	10.24/10.29	SYN.OBM	10.1	10.02-10.3	For detail, see report PPFG
<b>Pressure Indicators:</b> Hole 18 1/8" to 9090' & 22' Hole (for liner) 8993'					
<b>Targets:</b>	<u>Prognosis</u> (TVD)	<u>Actual</u> (TVD)	<u>+ / -</u> (ft)	<u>Comments</u>	
	8283' – 8448'	8240'-8435'	-43/-13	pp: ~ 9.4 ppg	
Sand-prone	8842' – 9039'	8866'-8968'	+24/-71	Kick @ 8970'	
	Predict 9453' – 9699'			pp: ~10.2 ppg	

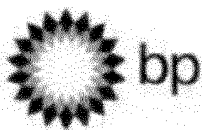
**BHA:**

PDC Bit: 18 1/8" Nozzles: 2 x 16, 5 x 15, TFA: 1.26 Reamer: 22" 3 x 8 TFA: 147  
Sensor Distance: PD Gamma = 8.55'; PD D&L= 11.16'; PWD = 27.57', Resistivity = 29.90'  
Gamma: 29.17'; D&I = 57.13'  
Stabilizer mid points: PD Bias = 2.83'; RSS = 18.98' Telescope Stab. = 43.54'  
22" Reamer= 91.28'; 19 1/2" Reamer = 136.20'  
DP Size (OD- ID- grade): 6 5/8"- 4 5/8"- S135 & 5 1/2"- S135

**Comments:****24 Hour Prognosis:**

Look at our ESD/ECD and do a no flow off bottom  
Look at whether we can pump a Sweep or just come out of hole.  
POOH to run liner.

<b>Geologist</b>	JORGE VIERA	<b>Time:</b>	5:30 AM
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## DAILY GEOLOGICAL REPORT

Macondo Exploration Well OCS-G-32306 Rig: Transocean Marianas	Mississippi Canyon 252#1 API#: 60817411690000 Spud date: 10/6/2009
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Well No.	MC 252 #1	KB (ft):	89'	WD (ft):	4992'	Date:	10/29/2009
Current TD (ft MD)	9090	Int. drilled (ft)	0	Dev. (deg)	0.06	Azi. (deg)	46.61
Current TD (ft TVD)	9089.75	Avg. ROP (ft/hr):	0	@ MD (ft)	8931	@ TVD (ft)	8930.73
CSG Shoe	36" casing	5335'					
CSG Shoe	28" casing	6231'					
CSG Shoe	22" casing	7952'	LOT: 10.46 ppg. With hole @ 8000'; 8010' & 8059'				
CSG Shoe	Next 18" casing	8993' ?	Current hole w/ 18 1/8" @ 9090' x 22" @ 8993'				
CSG Shoe	16" casing						
LNR Shoe	13 3/8" liner						

### Present Operation:

5:45 AM Running 18" Liner @ 270'

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

Circulate B/up & clean hole. Trip out.  
Trip from 7800' to 8065' verify Reamer open against CSN shoe.  
POOH L/down BHA  
R/U casing tools & RIH 18" liner.

### Sample Descriptions

9020' - 9080'	<p><b>Shale:</b> 80-90% Med gray to dark gray, minor light gray, more calcareous than before, firm to moderated compact, non-fissile, blocky- micro blocky, frequently splinty, traces with waxy structure, minor rough to gritty, slightly silty in part.</p> <p><b>Sandstone:</b> 10%-TR More unconsolidated, abundant of lose grain. Sample contaminated with different kind of LCM.</p> <p><b>Siltstone:</b> 10%-TR A/A Loose grain in the bottom of sample ditches.</p> <p><b>Claystone:</b> (Marl) TR</p>
9080' - 9090'	<p><b>Shale:</b> 80% Med gray to dark gray, minor light gray, still more calcareous than 50' shallow, slightly silty in part, firm to moderated compact, non-fissile, blocky- micro blocky, frequently splinty, traces waxy structure, minor rough to gritty.</p> <p><b>Sandstone:</b> 10%-TR A/A</p> <p><b>Claystone:</b> 10% (Marl)) Light greenish gray, very light gray, calcareous to very calcareous, soft, plastic, occasionally very plastic with water, poor compacted, mostly micro-blocky, rough to gritty in part. Occasionally slightly silty in part.</p> <p><b>Siltstone:</b> TR A/A</p>

### Gas

Gas Type	Total Gas (U)	Depth (MD)	C1 (ppm)	C2 (ppm)	C3 (ppm)	TC4 (ppm)	TC5 (ppm)	Notes:
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Max gas	209	8965						43 U BCKGRD Yesterday
Bkgd gas	23	9099'						Last 20 minutes before POOH
PU gas								
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
9090	10.24/10.29	SYN.OBM	10.1	10.02-10.3	For detail, see report PPFG
<b>Pressure Indicators:</b>					
<b>Targets:</b>	Prognosis (TVD)	Actual (TVD)	+ / - (ft)	Comments	
	8283' – 8448'	8240'-8435'	-43/-13	pp: ~ 9.4 ppg	
Sand-prone	8842' – 9039'	8866'-8968'	+24/-71	Kick @ 8970'	
	Predict 9453' – 9699'			pp: ~10.2 ppg	

<b>BHA:</b>
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<b>Comments:</b> Casing ID: 16.75" Casing drift: 16.563" Casing collar OD: 18"			
<b>24 Hour Prognosis:</b> Finish RIH 16" CSN and cementing job.			
Geologist	JORGE VIERA	Time:	5:30 AM





## DAILY GEOLOGICAL REPORT

Macondo Exploration Well 252#1 OCS-G-32306 Rig: Transocean Marianas	Mississippi Canyon API#: 60817411690000 Spud date: 10/6/2009
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Well No.	MC 252 #1	KB (ft):	89'	WD (ft):	4992'	Date:	10/30/2009
Current TD (ft MD)	9090	Int. drilled (ft)	0	Dev. (deg)	0.06	Azi. (deg)	46.61
Current TD (ft TVD)	9089.75	Avg. ROP (ft/hr):	0	@ MD (ft)	8931	@ TVD (ft)	8930.73
CSG Shoe	36" casing	5335'					
CSG Shoe	28" casing	6231'					
CSG Shoe	22" casing	7952'	LOT: 10.46 ppg. With hole @ 8000'; 8010' & 8059'				
CSG Shoe	Next 18" casing		Current hole w/ 18 1/8" @9090' x 22"@ 8993'				
CSG Shoe	16" casing						
LNR Shoe	13 3/8" liner						

### Present Operation:

Circulating with 18" Liner @ 8983'

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

Rig up for casing jobs.  
Pick up and running 15" casing to 1458'  
R/D 18" elevators and P/U 18" hanger and continue RIH with 5 1/2" DP  
RIH to 8983' and circulate.

### Sample Descriptions

<b>9080' – 9090'</b>  <b>B/up sample.</b>	<p><b>Shale:</b> 80% Med gray to dark gray, minor light gray, still more calcareous than 50' shallow, slightly silty in part, firm to moderated compact, non-fissile, blocky- micro blocky, frequently splinty, traces waxy structure, minor rough to gritty.</p> <p><b>Sandstone:</b> 10%-TR More unconsolidated, abundant of lose grain. Sample contaminated with different kind of LCM.</p> <p><b>Claystone:</b> 10% (Marl) Light greenish gray, very light gray, calcareous to very calcareous, soft, plastic, occasionally very plastic with water, poor compacted, mostly micro-blocky, rough to gritty in part. Occasionally slightly silty in part.</p> <p><b>Siltstone:</b> TR Lithic to Sublithic. Light very light gray, off white, occasionally slightly calcareous, firm to well compacted, well sorted, sandy in parts, medium- well indutated, medium to well sorting, no visible inter-granular porosity, no oil stain, no fluorescence.</p>
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### Gas

Gas Type	Total Gas (U)	Depth (MD)	C1 (ppm)	C2 (ppm)	C3 (ppm)	TC4 (ppm)	TC5 (ppm)	Notes:
Max gas								
Bkgd gas	25							No B/up yet

PU gas								
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
9090	10.24/10.29	SYN.OBM	10.1	10.02-10.3	For detail, see report PPFG
<b>Pressure Indicators:</b>					
<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'
		Predict 9453' – 9699'			pp: ~10.2 ppg

<b>BHA:</b> 5 ½" Drill pipe with 18" hanger.
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<b>Comments:</b> Casing ID: 16.75" Casing drift: 16.563" Casing collar OD: 18"			
<b>24 Hour Prognosis:</b> Finish cementing 18" CSN.			
<b>Geologist</b>	JORGE VIERA	<b>Time:</b>	5:10 AM



## DAILY GEOLOGICAL REPORT

Macondo Exploration Well 252#1 OCS-G-32306 Rig: Transocean Marianas	Mississippi Canyon API#: 60817411690000 Spud date: 10/6/2009
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Well No.	MC 252 #1	KB (ft):	89'	WD (ft):	4992'	Date:	10/31/2009
Current TD (ft MD)	9090	Int. drilled (ft)	0	Dev. (deg)	0.06	Azi. (deg)	46.61
Current TD (ft TVD)	9089.75	Avg. ROP (ft/hr):	0	@ MD (ft)	8931	@ TVD (ft)	8930.73
CSG Shoe	36" casing	5335'					
CSG Shoe	28" casing	6231'					
CSG Shoe	22" casing	7952'	LOT: 10.46 ppg. With hole @ 8000'; 8010' & 8059'				
CSG Shoe	18" casing	8983'	Current hole w/ 18 1/8" @9090'				
CSG Shoe	16" casing						
LNR Shoe	13 3/8" liner						

### Present Operation:

Negative testing well down to 6,081' with 6.8 base oil in kill line

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

RIH to 8983' and circulate.

Pick up & make up cementing head and cementing casing.

POOH to 8623' and circulate 2 B/U. Pump 48 bbls of 12.1 slug and continue POOH.

Problems with the Stack. Slip and cut drilling line.

RIH to test 18" casing. 250 PSI for 5 min. 3000 PSI for 30 min.

### Sample Descriptions

9080' – 9090'	<b>B/up sample.</b>  <b>Shale:</b> 80% Med gray to dark gray, minor light gray, still more calcareous than 50' shallow, slightly silty in part, firm to moderated compact, non-fissile, blocky- micro blocky, frequently splinty, traces waxy structure, minor rough to gritty. <b>Sandstone:</b> 10%-TR More unconsolidated, abundant of lose grain. Sample contaminated with different kind of LCM. <b>Claystone:</b> 10% (Marl) Light greenish gray, very light gray, calcareous to very calcareous, soft, plastic, occasionally very plastic with water, poor compacted, mostly micro-blocky, rough to gritty in part. Occasionally slightly silty in part. <b>Siltstone:</b> TR Lithic to Sublithic. Light very light gray, off white, occasionally slightly calcareous, firm to well compacted, well sorted, sandy in parts, medium- well indutated, medium to well sorting, no visible inter-granular porosity, no oil stain, no fluorescence.

### Gas

Gas Type	Total Gas (U)	Depth (MD)	C1 (ppm)	C2 (ppm)	C3 (ppm)	TC4 (ppm)	TC5 (ppm)	Notes:
Max gas	40							

MC 252 #1 - Macondo

Bkgd gas	20-25							During cement jobs
PU gas								
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
9090	10.24/10.29	SYN.OBM	10.1	10.02-10.3	For detail, see report PPFG
<b>Pressure Indicators:</b>					
<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'	
	Predict 9453' – 9699'			pp: ~10.2 ppg	

<b>BHA:</b>
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<b>Comments:</b>	
Total loses during casing jobs 125 bbl.	
The Geologist on location will be released till back to hole for drill cement and LOT.	
<b>24 Hour Prognosis:</b>	
Set 200' cement plug from 6081' to 5881'. POH 3 stand & circ out ball. POOH. RU to handle riser, unlatch , move 50ft	
<b>Geologist</b>	JORGE VIERA
<b>Time:</b>	5:50 AM