

HALLIBURTON

Sperry Drilling Services

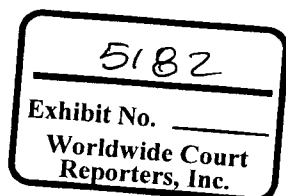
BP Exploration & Production
OCS-G 32306 001 ST00BP00 & BP01
Mississippi Canyon Block 252

RIG: Transocean Deepwater Horizon

Personnel

Joseph Keith
Kelly Gray
Cathleenia Willis
Nicholas Malczewskyj
Kerry Garner

Sr. ADT Engineer/Unit Manager
Sr. ADT Engineer/Relief Manager
Logging Engineer
Logging Engineer
Logging Engineer



Confidential

HAL_1205680

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A summary listing of daily mud parameters.

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A table showing all directional surveys.

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SECTION 1 WELL SUMMARY

SECTION 1 WELL SUMMARY

1.1 Introduction

Sperry Drilling Services (Unit # 82418) was contracted to perform surface data logging and pore pressure prediction services by BP Exploration and Production for the Macondo Prospect 001 ST00BP00 in Mississippi Canyon Block 252. Sperry Drilling Services INSITE data acquisition and distribution, was used to send Real Time information to remote stations around the rig and also to BP's office in Houston, Texas.

The final report is intended to be a summary of events and is hoped to be of use in future wells. Should there be any further information required, Sperry Drilling can be contacted at our Technical Services office in Houston at (281) 987-4432 or our Operation office in Lafayette at (337) 837-3061.

1.2 WELL OBJECTIVE

Primary Objective:

Drill and evaluate the Macondo Prospect in MC 252 #1. Primary target interval expected at 18,400', with secondary target being below the primary target interval (as prescribed in the (PDDP).

1.3 WELL SUMMARY (Macondo) MC 252 No.1 ST00BP00

| | | |
|-----------------------|-------------------------------------|------------------------------------|
| Operator: | BP Exploration and Production, Inc. | |
| Well Name: | OCS-G 32306 001 ST00BP00 | |
| API Number: | 608174116900 | |
| Country: | Offshore U.S.A. | |
| Area: | Deepwater Gulf of Mexico | |
| Concession: | Mississippi Canyon Block 252 | |
| Well Type: | Prospect | |
| Location: | Lat: 28 Deg 44 Min 17.30 Sec North | Long: 88 Deg 21 Min 57.40 Sec West |
| RKB - MSL: | 75 ft | |
| Water Depth: | 4992 ft | |
| RKB -ML: | 5067 ft | |
| Proposed Total Depth: | 19,650 ft MD | |
| Actual Total Depth: | 13,305 ft MD | |
| True Vertical Depth: | 13,305 ft TVD | |
| Spud Date: | Sep 26, 2009 | Jan 31, 2010 |
| | Rig: Marinas | Rig: Deepwater Horizon |
| TD Date: | Mar 17, 2010 | |

Total Days: 46
Drilling Contractor: Transocean
Rig Name: Deepwater Horizon
Rig Type: Semi-submersible

1.3A WELL SUMMARY (Macondo Bypass) MC 252 No.1 ST00BP01

Operator: BP Exploration and Production, Inc.
Well Name: OCS-G 32306 001 ST00BP01

API Number: 608174116901

Country: Offshore U.S.A.
Area: Deepwater Gulf of Mexico
Concession: Mississippi Canyon Block 252
Well Type: Prospect

Location: Lat: 28 Deg 44 Min 17.30 Sec North
Long: 88 Deg 21 Min 57.40 Sec West

RKB - MSL: 75 ft
Water Depth: 4992 ft
RKB -ML: 5067 ft

Proposed Total Depth: 19,650 ft MD
Actual Total Depth: 18,360 ft MD
True Vertical Depth: 18,349 ft TVD

Kick-off Date: Mar 18, 2010
TD Date: Apr 09, 2010
Total Days: 24

Drilling Contractor: Transocean
Rig Name: Deepwater Horizon
Rig Type: Semi-submersible

1.4 LOGGING SERVICES SUPPLIED AND EQUIPMENT USED

Database PC (ADI)
Drawworks Depth Encoder
Flow Out Sonic Meter
Hookload and WOB
Mud temperature in/out
Pits volume sensors (x16)
Pump strokes counters (x4)
Rig Floor Monitor
Co-man workstation
Geologist workstation
Standard Fluoroscope
Standard Stereo Microscope
Standpipe pressure (x2)
Choke pressure (x2)
Rotary speed (RPM)
Torque

Note all surface equipment (sensors) data being supplied by Hi Tec service.

Services supplied by Sperry Drilling services

Combined total gas and FID Gas detector:
Gas Chromatograph Fast Gas program: 45 second PPM readings.
Gas Trap (x2)
INSITE IRIS Data acquisition PC
ASCII, and fax format
Connection Flow Monitoring Program: (CFM)
Drill Saver (Vibration Monitoring)
Formation Evaluation
Geological and Engineering Reporting
Hydraulics analysis
Interpreted Lithology
Plots of daily drilling activities
Real Time Drilling Monitoring
Real Time log display of MWD data
Real Time monitoring of drilling fluids
Real Time Tabular displays of data
Real Time Trip Monitoring

Real Time display of Data
Sample preparation lab

1.5 MONITORED PARAMETERS

Block Position
Continuous Gas Percentage in Air
Depth
Flow In & Flow Out
Gas (Analysis)
Hookload
Hydrocarbon Shows: Steam Still Analysis Ratio Plotting
Formation Lithology
Mud Density in and out
Mud Temperature In & Out
Mud Volume
MWD data
On /Off Bottom status
Pump Pressure (Stand Pipe Pressure)
Choke Pressure
Pump Stroke and Volume of Mud Pumped
Rate of Penetration
Revolutions per Minute of rotary table & bit
Swab\Surge calculation
Torque and Vibration
Weight on Bit including drag and obstructions
Dril Saver Program
Connection Flowback Monitoring (CFM)

1.6 PERSONNEL

Four INSITE (Loggers) continuously monitored all operations during the drilling of OCSG-32306 001 ST00BP00 and ST00BP01 while maintaining well database. They also provided any well and drilling data upon request, notified the appropriate personnel of any irregularities or anticipated problems, provided daily reports and print outs of data and prepared master logs and final reports.

Logging Engineers:
Joseph Keith
Kelly Gray

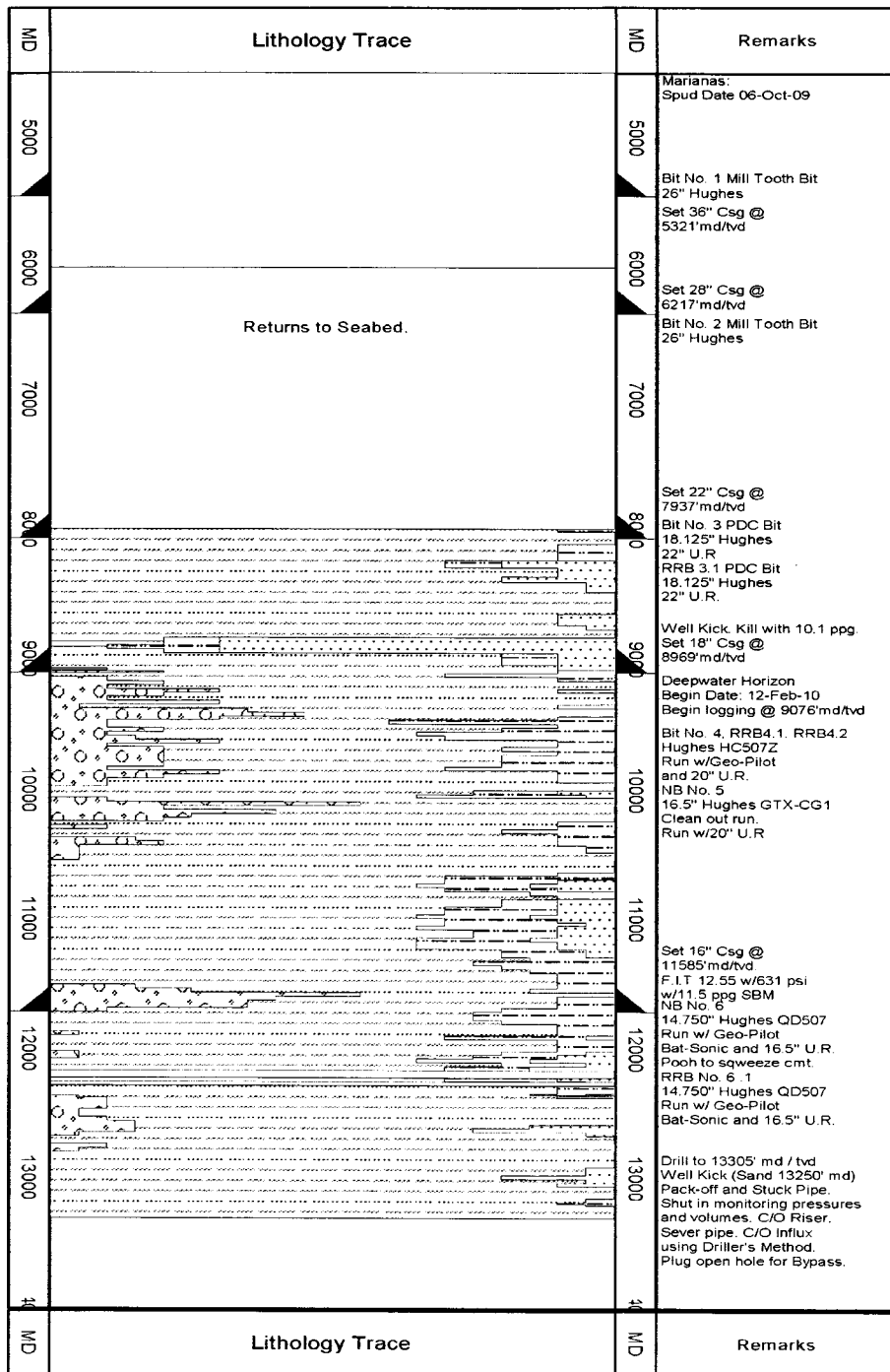
Sample Catchers:
Beau Orton
Sean O'Donnell (PSN)

Cathleen Willis
Nicholas Malczewskyj
Kerry Garner

Preston Midkiff (PSN)
Adam Glover (PSN)
Paris Ervin
Degi Olofinboba
Roderick Porche
Larry Williams

1.7 WELL PROFILE (Macondo) MC 252 No.1 ST00BP00

Diagram showing lithology, hole sections and Casing section



1.7A WELL PROFILE (Macondo Bypass) MC 252 No.1 ST00BP01
Diagram showing lithology, hole sections and Casing sections.

| MD | Lithology Trace | MD | Remarks |
|-------|--------------------|-------|--|
| 5000 | | 5000 | Marlanes: Spud Date 06-Oct-09 |
| 6000 | | 6000 | Bit No. 1 Mill Tooth Bit 26" Hughes |
| | | | Set 36" Csg @ 5321' md/tvd |
| 7000 | Returns to Seabed. | 7000 | Set 28" Csg @ 6217' md/tvd |
| | | | Bit No. 2 Mill Tooth Bit 26" Hughes |
| 8000 | | 8000 | Set 22" Csg @ 7937' md/tvd |
| | | | Bit No. 3 PDC Bit 18.125" Hughes |
| | | | 22" U.R. |
| | | | RRB 3.1 PDC Bit 18.125" Hughes |
| | | | 22" U.R. |
| 9000 | | 9000 | Well Kick. Kill with 10.1 ppg. Set 18" Csg @ 8969' md/tvd |
| | | | Deepwater Horizon Begin Date: 12-Feb-10 Begin Logging @ 9076' md/tvd |
| | | | Bit No. 4, RRB4.1, RRB4.2 Hughes HC507Z |
| | | | Run w/Geo-Pilot and 20" U.R. |
| | | | NB No. 5 16.5" Hughes GTX-CG1 Clean out run Run w/20" U.R. |
| 10000 | | 10000 | |
| 11000 | | 11000 | Set 16" Csg @ 11585' md/tvd |
| | | | Kick-off Bypass @ 11700' md/tvd |
| 12000 | | 12000 | NB No. 7 14.750" Hughes QD507 Run w/ Geo-Pilot and 16.5" U.R. |
| 13000 | | 13000 | Set 13-5/8" Csg @ 13145' md / 13134' tvd |
| | | | NB No. 8 12.25" Hughes QD507 Run w/ Geo-Pilot and 14.5" U.R. |
| 14000 | | 14000 | |
| 15000 | | 15000 | Set 11-7/8" Csg @ 15113' md / 15103' tvd |
| | | | L.O.T. 14.7 w/1020 psi with 13.4 ppg SBM |
| | | | NB No. 9 10.625" Hughes QD507FX Run w/ Geo-Pilot and 12.5" U.R. |
| 16000 | | 16000 | |
| 17000 | | 17000 | Set 9-7/8" Csg @ 17160' md / 17157' tvd |
| | | | F.L.T. 15.5B w/1520 psi with 14.3 ppg SBM |
| | | | NB No. 10 8.5" Hughes HC400XC Run w/ Geo-Pilot and 9-7/8" U.R. |
| 18000 | | 18000 | |
| 19000 | | 19000 | NB No. 11 8.5" Hughes HC400XC TD well 18360' md 18340' tvd |
| MD | Lithology Trace | MD | Remarks |



SECTION 2

GEOLOGICAL EVALUATION

2.1 FORMATION DESCRIPTION (Macondo) MC 252 No.1 ST00BP00:

LITHOLOGY

| INTERVAL FEET | LITHOLOGY DESCRIPTIONS |
|------------------|---|
| 9085' – 9100' | <p>Shale: light grey, grey, dark grey; very calcareous; silty, very silty; moderately hard; blocky.</p> <p>Siltstone : grey, dark grey, black; moderately hard, hard; well cemented; calcareous cement.</p> <p>Marl : light grey, very calcareous; moderately hard, soft; blocky, angular; Fluorescence: none, Abdt Cement.</p> |
| 9100' – 9250' | <p>Shale: light grey, grey, dark grey; calcareous, very calcareous; slightly silty, silty, very silty; moderately hard; blocky</p> <p>Marl : light grey; very calcareous; very silty; friable, moderately hard, soft; angular, blocky; Fluorescence: none.</p> <p>Siltstone : light grey, grey, dark grey, black; moderately hard, hard, soft; moderately well cemented, well cemented; calcareous cement; crumbly, blocky; Fluorescence: none.</p> |
| 9250' – 9340' | <p>Shale: light grey, grey, dark grey; very calcareous; slightly silty; moderately hard; blocky</p> <p>Marl : light grey; very calcareous; soft; angular, blocky; Fluorescence: none.</p> |
| 9340' – 9550' | <p>Shale : light grey, grey, dark grey; calcareous, very calcareous; slightly silty, silty; moderately hard; blocky.</p> <p>Marl : light grey, grey; very calcareous; moderately hard, soft; blocky, angular; calcite, quartz; Fluorescence: trace; bright yellow; Cut: slow streaming; blue white; trace oil stain.</p> <p>Siltstone : light grey, grey, brown; moderately hard, hard, soft; well cemented, very well cemented; calcareous cement; crumbly, blocky; Fluorescence: weak; bright yellow; Cut: slow streaming; milky blue; weak oil stain.</p> |
| 9550' – 9800' | <p>Shale : light grey, grey, dark grey; calcareous, very calcareous; slightly silty, silty, very silty; moderately hard, hard; blocky, angular.</p> <p>Marl : light grey, grey, buff, olive; very calcareous; slightly silty, silty; moderately hard; blocky, angular; calcite, quartz; Fluorescence: trace; bright yellow; Cut: slow streaming; blue white; trace oil stain</p> <p>Siltstone : light grey, grey, dark grey, black, brown; moderately hard, hard, soft; well cemented; calcareous cement; blocky; Fluorescence: weak; bright yellow; Cut: slow streaming; milky blue; weak oil stain..</p> |
| 9800' – 10060' | <p>Shale : light grey, grey, dark grey; calcareous, very calcareous; silty, very silty; moderately hard; blocky.</p> <p>Sandstone : fine crystalline; light grey, grey, dark grey; very fine grained; sub rounded, sub angular; moderately sorted; moderately hard; moderately well cemented; silica cemented; crumbly, blocky; Fluorescence: none.</p> <p>Siltstone : grey, dark grey, black; moderately hard, hard; well cemented; calcareous cement; blocky; Fluorescence: none.</p> <p>Marl : light grey, grey, buff, olive; very calcareous; moderately hard; blocky, angular; Fluorescence: none.</p> |

| | |
|-----------------|---|
| 10060' – 10240' | <p>Shale : grey, dark grey; slightly calcareous, calcareous, very calcareous; slightly silty, silty, very silty; moderately hard, hard; blocky, angular.</p> <p>Marl : light grey; very calcareous; moderately hard, soft; blocky, angular; Fluorescence: none.</p> |
| 10240' – 10540' | <p>Shale : light grey, grey, dark grey; slightly calcareous, calcareous, very calcareous; slightly silty, silty; moderately hard, hard; blocky.</p> <p>Marl : light grey, grey; very calcareous; moderately hard, soft; blocky, angular; Fluorescence: none..</p> <p>Siltstone : grey, dark grey; moderately hard, hard, soft; moderately well cemented; calcareous cement; crumbly, blocky; Fluorescence: none.</p> |
| 10540' – 10700' | <p>Shale : light grey, grey, dark grey; calcareous, very calcareous; slightly silty, silty, very silty; moderately hard, hard; blocky, angular.</p> <p>Siltstone : light grey, grey; moderately hard, soft; crumbly, blocky; Fluorescence: none.</p> <p>Marl : light grey, grey; very calcareous; moderately hard, soft; blocky, angular; Fluorescence: none...</p> |
| 10700' – 11300' | <p>Shale : light grey, grey, dark grey; calcareous; silty, very silty; moderately hard, hard; blocky angular.</p> <p>Sandstone : light grey, grey, dark grey; very fine grained; sub rounded, sub angular; moderately sorted; moderately hard, soft; moderately well cemented; silica cemented; crumbly, blocky; argillaceous; Fluorescence: none.</p> <p>Siltstone : light grey, grey, dark grey; moderately hard, soft; crumbly, blocky; Fluorescence: none.</p> |
| 11300' – 11500' | <p>Shale : light grey, grey, dark grey; calcareous; silty, very silty; moderately hard, hard; blocky angular.</p> <p>Siltstone : light grey, grey, dark grey; moderately hard, soft; crumbly, blocky; Fluorescence: none.</p> |
| 11500' – 11750' | <p>Shale : light grey, grey, dark grey; calcareous; silty, very silty; moderately hard, hard; blocky angular.</p> <p>Siltstone : light grey, grey, dark grey; moderately hard, hard; moderately well cemented, well cemented; blocky, angular; Fluorescence: none.</p> <p>Marl : light grey, grey, buff, cream, brown; very calcareous; moderately hard, hard; blocky, angular; Fluorescence: none.</p> |
| 11750' – 12000' | <p>Shale : grey, dark grey; calcareous, very calcareous; silty, very silty; moderately hard, hard; blocky angular.</p> <p>Marl : light grey, buff; very calcareous; moderately hard, hard; blocky, angular; Fluorescence: none.</p> <p>Siltstone : light grey, grey, dark grey; moderately hard, hard; moderately well cemented, well cemented; blocky, angular; Fluorescence: none.</p> |
| 12000' – 12160' | <p>Shale : grey, dark grey; slightly calcareous, calcareous; slightly silty; moderately hard, hard; blocky, angular.</p> <p>Marl : light grey, buff; very calcareous; moderately hard, hard; blocky, angular; Fluorescence: none.</p> <p>Siltstone : light grey, grey, dark grey; moderately hard, hard; moderately well cemented, well cemented; blocky, angular; Fluorescence: none.</p> <p>Sandstone : light grey, dark grey; fine grained, very fine grained; sub rounded, sub angular; moderately sorted; moderately hard, hard; moderately well cemented; silica cemented; blocky, angular; Fluorescence: none.</p> |

| | |
|-----------------|---|
| 12160' – 12246' | Note: No samples from 12160' to 12246' md due to circulating out high gas. No crew members allowed inside shaker house. |
| 12270' – 12370' | Shale : light grey, grey, dark grey, brown; slightly calcareous, calcareous; very silty; moderately hard, hard, very hard; crumbly, blocky, angular. |
| | Sandstone : grey, dark grey; fine grained, very fine grained; sub rounded, sub angular; poorly sorted; hard, very hard; well cemented; calcareous cemented; blocky, angular; Fluorescence: none. |
| | Siltstone : light grey, grey, dark grey; moderately hard, hard, very hard; well cemented, very well cemented; calcareous cement; blocky; Fluorescence: none. |
| 12370' – 12580' | Shale : grey, dark grey, brown; calcareous; very silty; moderately hard, hard, very hard; crumbly, blocky, angular. |
| | Marl : light grey, grey, dark grey, green, blue, brown, chocolate; very calcareous; silty, very silty; moderately hard, hard; crumbly, blocky, angular; Fluorescence: none. |
| 12580' – 12700' | Sandstone : grey, dark grey; fine grained, very fine grained; sub rounded, sub angular; poorly sorted; hard, very hard; well cemented; calcareous cemented; blocky, angular; Fluorescence: none. |
| | Marl : grey, grey, dark grey, brown, chocolate; very calcareous; silty, very silty; moderately hard, hard; crumbly, blocky, angular; Fluorescence: none. |
| | Shale : grey, dark grey, brown; calcareous; very silty; moderately hard, hard, very hard; crumbly, blocky, angular. |
| 12700' – 12730' | Shale : grey, dark grey; slightly calcareous, calcareous; slightly silty; moderately hard, hard; blocky, angular. |
| 12730' – 12790' | Shale : grey, dark grey, brown; calcareous; very silty; moderately hard, hard, very hard; blocky, angular. |
| | Marl : light grey, buff, cream; very calcareous; very silty; friable, moderately hard; waxy; crumbly, blocky; Fluorescence: none. |
| 12790' – 12910' | Shale : grey, dark grey; slightly calcareous, calcareous; silty, very silty; hard, very hard; blocky, angular. |
| 12910' – 13060' | Shale : light grey, grey, dark grey; slightly calcareous, calcareous, very calcareous; silty; hard, very hard; blocky, angular. |
| | Sandstone : white, light grey, grey, dark grey; very fine grained; rounded, sub rounded; moderately well sorted, well sorted; moderately hard, hard, very hard; well cemented, very well cemented; calcareous cemented; blocky, angular; Fluorescence: none. |
| 13060' – 13150' | Shale : light grey, grey; calcareous, very calcareous; slightly silty, silty; moderately hard, hard; blocky, angular. |
| 13150' – 13230' | Shale : light grey, grey, dark grey; slightly calcareous, calcareous, very calcareous; silty; hard, very hard; blocky, angular. |
| | Siltstone : light grey, grey; moderately hard; crumbly, blocky, angular; Fluorescence: none. |
| 13230' – 13290' | Shale : light grey, grey; calcareous, very calcareous; slightly silty; moderately hard, hard; blocky, angular. Trace very fine grained Sandstone; Fluorescence: none. |

2.1A FORMATION DESCRIPTION (Macondo Bypass) MC 252 No.1 ST00BP01:

LITHOLOGY

INTERVAL FEET

LITHOLOGY DESCRIPTIONS

| | |
|-----------------|--|
| 11700' – 11810' | Shale : light grey, grey, dark grey; calcareous, very calcareous; silty; moderately hard, hard; blocky, angular. Cement in Samples |
| 11810' – 12090' | Shale : light grey, grey, dark grey; slightly calcareous, calcareous, very calcareous; slightly silty, silty; moderately hard, hard; blocky, angular. |
| | Sandstone : light grey, grey; fine grained, very fine grained; sub rounded, sub angular; moderately sorted; friable, moderately hard; moderately well cemented; silica cemented; crumbly, blocky, angular; Fluorescence: none. |
| | Siltstone : light grey, grey, dark grey; friable, moderately hard; moderately well cemented; crumbly, blocky; Fluorescence: none, Trace Sandstone. |
| | Marl : brown, buff; very calcareous; slightly silty; moderately hard, hard; waxy; blocky, angular; Fluorescence: none. |
| 12090' – 12320' | Shale : light grey, grey, dark grey; slightly calcareous, calcareous, very calcareous; slightly silty, silty; moderately hard, hard; blocky, angular. |
| | Marl : buff, cream; calcareous, very calcareous; slightly silty; moderately hard, hard; waxy; blocky, angular; Fluorescence: none. |
| | Siltstone : light grey, grey, dark grey; moderately hard, hard; moderately well cemented, well cemented; blocky, angular; Fluorescence: none. |
| 12320' – 12500' | Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty; moderately hard, hard; blocky, angular. |
| | Marl : light grey, buff, cream; very calcareous; moderately hard; waxy; blocky, angular; Fluorescence: none. |
| 12500' – 12590' | Sandstone : grey, dark grey, brown; fine grained, very fine grained; sub rounded, sub angular; poorly sorted; moderately hard, hard; well cemented; cemented; blocky, angular; Fluorescence: none. |
| | Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular. |
| | Marl : light grey, buff; very calcareous; slightly silty; moderately hard; waxy; blocky, angular; Fluorescence: none. |
| 12590' – 12890' | Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular. |
| | Marl : light grey, buff; very calcareous; slightly silty; moderately hard; waxy; blocky, angular; Fluorescence: none. |
| 12890' – 13150' | Shale : light grey, grey; slightly calcareous, calcareous, slightly silty, silty; moderately hard, hard; blocky, angular. |
| | Sandstone : light grey, grey; fine grained, very fine grained; sub rounded, sub angular; poorly sorted, moderately sorted; friable, moderately hard, hard; moderately well cemented, well cemented; calcareous cemented; crumbly, blocky, angular; Fluorescence: none. |
| | Siltstone : light grey, grey; friable, moderately hard; moderately well cemented; crumbly, blocky; Fluorescence: none. |
| 13150' – 13330' | Shale : grey, dark grey; slightly calcareous, calcareous, very calcareous; slightly silty, silty; |

moderately hard, hard; blocky, angular.

13330' – 13470'

Shale : grey, dark grey; slightly calcareous, calcareous, very calcareous; slightly silty, silty; moderately hard, hard; blocky, angular.

Sandstone : light grey, grey; fine grained, very fine grained; sub rounded, sub angular; poorly sorted, moderately sorted; friable, moderately hard, hard; moderately well cemented, well cemented; calcareous cemented; crumbly, blocky, angular; Fluorescence: none.

13470' – 13560'

Shale : grey, dark grey; slightly calcareous, calcareous, very calcareous; slightly silty, silty; moderately hard, hard; blocky, angular.

Siltstone : light grey, grey; friable, moderately hard; moderately well cemented; crumbly, blocky; Fluorescence: none.

13560' – 13750'

Shale : grey, dark grey; slightly calcareous, calcareous, very calcareous; slightly silty, silty; moderately hard, hard; blocky, angular.

Sandstone : light grey, grey; fine grained, very fine grained; sub rounded, sub angular; poorly sorted, moderately sorted; friable, moderately hard, hard; moderately well cemented, well cemented; calcareous cemented; crumbly, blocky, angular; Fluorescence: none.

13560' – 13750'

Sandstone : grey, dark grey, brown; fine grained, very fine grained; sub rounded, sub angular; poorly sorted; moderately hard, hard; well cemented; cemented; blocky, angular; Fluorescence: none.

Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular.

Marl : light grey, buff; very calcareous; slightly silty; moderately hard; waxy; blocky, angular; Fluorescence: none.

13750' – 13930'

Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular.

13930' – 14230'

Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular.

Marl : light grey, buff; very calcareous; slightly silty; moderately hard; waxy; blocky, angular; Fluorescence: none.

14230' – 14290'

Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular.

14290' – 14350'

Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular.

Marl : light grey, buff; very calcareous; slightly silty; moderately hard; waxy; blocky, angular; Fluorescence: none.

14350' – 14400'

Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular.

14400' – 14700'

Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular.

Sandstone : grey, dark grey, brown; fine grained, very fine grained; sub rounded, sub angular; poorly sorted; moderately hard, hard; well cemented; cemented; blocky, angular; Fluorescence: none.

Siltstone : light grey, grey; friable, moderately hard; moderately well cemented; crumbly, blocky; Fluorescence: none.

Marl : light grey, buff; very calcareous; slightly silty; moderately hard; waxy; blocky.

| | |
|-----------------|---|
| | angular; Fluorescence: none. |
| 14700' – 14930' | <p>Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular.</p> <p>Siltstone : light grey, grey; friable, moderately hard; moderately well cemented; crumbly, blocky; Fluorescence: none.</p> |
| 14930' – 15130' | <p>Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular.</p> <p>Sandstone : grey, dark grey, brown; fine grained, very fine grained; sub rounded, sub angular; poorly sorted; moderately hard, hard; well cemented; cemented; blocky, angular; Fluorescence: none.</p> |
| 15130' – 15220' | Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular. |
| 15220' – 15270' | <p>Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular.</p> <p>Marl : light grey, buff; very calcareous; slightly silty; moderately hard; waxy; blocky, angular; Fluorescence: none.</p> |
| 15270' – 15430' | Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular. |
| 15430' – 15580' | <p>Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular.</p> <p>Sandstone : grey, dark grey, brown; fine grained, very fine grained; sub rounded, sub angular; poorly sorted; moderately hard, hard; well cemented; cemented; blocky, angular; Fluorescence: none.</p> <p>Siltstone : light grey, grey; friable, moderately hard; moderately well cemented; crumbly, blocky; Fluorescence: none.</p> |
| 15580' – 15660' | <p>Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular.</p> <p>Sandstone : grey, dark grey, brown; fine grained, very fine grained; sub rounded, sub angular; poorly sorted; moderately hard, hard; well cemented; cemented; blocky, angular; Fluorescence: none.</p> <p>Siltstone : light grey, grey; friable, moderately hard; moderately well cemented; crumbly, blocky; Fluorescence: none.</p> <p>Marl : light grey, buff; very calcareous; slightly silty; moderately hard; waxy; blocky, angular; Fluorescence: none.</p> |
| 15660' – 16130' | <p>Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular.</p> <p>Sandstone : grey, dark grey, brown; fine grained, very fine grained; sub rounded, sub angular; poorly sorted; moderately hard, hard; well cemented; cemented; blocky, angular; Fluorescence: none.</p> <p>Siltstone : light grey, grey; friable, moderately hard; moderately well cemented; crumbly, blocky; Fluorescence: none.</p> <p>Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty;</p> |

| | |
|-----------------|--|
| 16130' – 16150' | moderately hard, hard; blocky, angular. Marl : light grey, buff; very calcareous; slightly silty; moderately hard; waxy; blocky, angular; Fluorescence: none. |
| 16150' – 16510' | Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular. Siltstone : light grey, grey; friable, moderately hard; moderately well cemented; crumbly, blocky; Fluorescence: none. |
| 16510' – 16540' | Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular. Sandstone : grey, dark grey, brown; fine grained, very fine grained; sub rounded, sub angular; poorly sorted; moderately hard, hard; well cemented; cemented; blocky, angular; Fluorescence: none. |
| 16540' – 16660' | Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular. Sandstone : grey, dark grey, brown; fine grained, very fine grained; sub rounded, sub angular; poorly sorted; moderately hard, hard; well cemented; cemented; blocky, angular; Fluorescence: none. Siltstone : light grey, grey; friable, moderately hard; moderately well cemented; crumbly, blocky; Fluorescence: none. |
| 16660' – 16750' | Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular. Marl : light grey, buff; very calcareous; slightly silty; moderately hard; waxy; blocky, angular; Fluorescence: none. |
| 16750' – 16900' | Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular. Sandstone : grey, dark grey, brown; fine grained, very fine grained; sub rounded, sub angular; poorly sorted; moderately hard, hard; well cemented; cemented; blocky, angular; Fluorescence: none. |
| 16900' – 16930' | Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular. Marl : light grey, buff; very calcareous; slightly silty; moderately hard; waxy; blocky, angular; Fluorescence: none. |
| 16930' – 17400' | Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular. Sandstone : grey, dark grey, brown; fine grained, very fine grained; sub rounded, sub angular; poorly sorted; moderately hard, hard; well cemented; cemented; blocky, angular; Fluorescence: none. Siltstone : light grey, grey; friable, moderately hard; moderately well cemented; crumbly, blocky; Fluorescence: none. |
| 17400' – 17530' | Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular. Sandstone : grey, dark grey, brown; fine grained, very fine grained; sub rounded, sub angular; poorly sorted; moderately hard, hard; well cemented; cemented; blocky, angular; Fluorescence: none. |
| 17530' – 17761' | Wellbore Started Balloning Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular. |

Sandstone : grey, dark grey, brown; fine grained, very fine grained; sub rounded, sub angular; poorly sorted; moderately hard, hard; well cemented; cemented; blocky, angular; Fluorescence: none.

17761' – 17980'

Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular.

Sandstone : grey, dark grey, brown; fine grained, very fine grained; sub rounded, sub angular; poorly sorted; moderately hard, hard; well cemented; cemented; blocky, angular; Fluorescence: none.

Siltstone : light grey, grey; friable, moderately hard; moderately well cemented; crumbly, blocky; Fluorescence: none.

17980' – 18010'

Sandstone : grey, dark grey, brown; fine grained, very fine grained; sub rounded, sub angular; poorly sorted; moderately hard, hard; well cemented; cemented; blocky, angular; Fluorescence: none.

18010' – 18080'

Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular.

Sandstone : grey, dark grey, brown; fine grained, very fine grained; sub rounded, sub angular; poorly sorted; moderately hard, hard; well cemented; cemented; blocky, angular; Fluorescence: none.

Show No1 18080'-18206'md
18069'-18195'tvd

18080' – 18206'

Sandstone : brown, chocolate, light grey, white, dark grey, black; fine grain, very grain; subround, subangular; mod sorted, well sorted; soft, friable, hard in parts; loose; moderately cemented and slightly cemented in parts; calc cemented in parts; Fluorescence: light bluish white, bright white, dull white, dull yellow gold; Cut: instant, fast; bright white, dull white, dull yellow gold with faint very light tan oil stain. Grading to Siltstone.

18206' – 18240'

Shale : light grey, grey, dark grey, brown; slightly calcareous; slightly silty, silty; moderately hard, hard; blocky, angular.

Sandstone : white, light grey, grey; fine grained, very fine grained; sub rounded, sub angular; poorly sorted; moderately hard, hard; well cemented; cemented; blocky, angular; Fluorescence: trace, dull yellow.

Siltstone : light grey, grey, brown; friable, moderately hard; moderately well cemented; crumbly, blocky; Fluorescence: none.

18240' – 18260'

Note : No samples from 18240' – 18260' md due to lost returns

18260' – 18360'

Shale : grey, dark grey, brown, chocolate; calcareous; silty; very hard; blocky, angular

Sandstone : white, light grey; fine grained, very fine grained; sub rounded; moderately sorted; moderately hard; moderately well cemented; silica cement; crumbly, blocky; argillaceous; Fluorescence: trace, 1-2 pieces; dull yellow; Cut: none.

Siltstone : white, light grey, grey, brown; moderately hard; calcareous cement; crumbly, blocky, angular; Fluorescence.

2.2 SAMPLE COLLECTION

6 Wet & 5 dry samples caught at 30' intervals during starting at 9076' md/tvd to xxxxx' md. (Note: Caught 10' wet and dry samples during shows or zones-of-interest.) Geochemical samples were caught at 90' intervals starting at

9076' md/tvd. (Note: Caught 10' samples during shows or zones-of-interest.) Mud samples caught at 1000' intervals switching to 30' intervals during Shows. Iso-tubes were caught at 90' intervals intervals from 9076' md/tvd to TD. (Note caught 10' iso-tubes during Shows and Zones-of-Interest.)

2.3 SHOWS & ZONES-OF-INTEREST (Macondo) MC 252 No.1 ST00BP00

Zone of Interest "A" drilled from 12030' to 12246' md (12030' – 12246' tvd) with a maximum gas of 2970 units (99%) with a low mud cut of 10.6-ppg from 11.1-ppg. Samples did not exhibit fluorescence or cut.

2.3A SHOWS & ZONES-OF-INTEREST (Macondo Bypass) MC 252 No.1 ST00BP01

Show #1 drilled from 18080' to 18206' md (18069' – 18195' tvd) with a maximum gas of 206 units (6.86%)
With no mud cut observed. Samples did exhibit fluorescence and a faint clear to very light tan/brown oil stain.
Geo-Tap reading with tool at 18090' md 18079'tvd was 12.58-ppg EMW.

The following pages go into more detailed analysis of the Zone-of -Interest and show reports.

SECTION 3

DRILLING REPORT

3.1 OPERATIONS SUMMARY (Macondo) MC 252 No.1 ST00BP00

Macondo Re-Entry Operations

Transocean's Deewater Horizon was contracted by BP to complete the Macondo well prospect after having to suspend operations initially started on the Marianas. After moving onto the Macondo location, the BOP stack was surface tested before rigging up riser handling equipment and running the BOP stack and riser from surface to well head located at 5057' md. ROV assisted in landing out the BOPs. Bulls-eye readings after latchup were as follows: (LMRP $\frac{1}{4}$ " @ 330°, BOP $\frac{1}{2}$ " @ 350°) Note: BOPs were latched with 100k down and confirmed with 75k overpull. Installed and locked diverter before rigging down riser handling equipment.

Held pre-job safety meeting with crew on picking up 18-1/8" cleanout assembly. Picked up 18-1/8" BHA from surface to 190' md. Picked up and ran in hole with jars, 6-5/8" drill pipe, Dril-Quip Dual Cam tool with test plug adapter from 190' to 723' md. Function tested diverter on the BLUE pod using the driller's control panel. Continued running in hole with test plug from 723' to 5736' md. Dropped Dril-Quip dart on stand 35 and pumped down at 15 spm until pressure verified that dart was seated. Landed out test plug inside well head at 5054' md with 70k down. Picked up and backed out of Dual Cam tool with 7 rounds to the right. Picked up above BOPs to test blind shear rams. Halliburton tested lines to 7500 psi before commencing testing on blind shear rams. The blind shear rams were then closed and Halliburton tested blind shear rams and well head connector to 250 psi low, 6500 psi high for five minute straight line test. After testing was completed, re-engaged DUAL CAM tool with 5k down and 6 turns to the right. POOH with Dual Cam and test tool from 5736' to 723' md. Laid down same. POOH with HWDP and 8-1/4" drill collars and rack back in derrick from 723' to the BHA at 94' md.

Picked up Dril-Quip wear sleeve assembly and ran in hole with drill collars and HWDP from 95' to 4713' md. Filled drill pipe before continuing to trip from 4713' to 5814' md. Filled drill pipe, picked up test kelly and rigged up chicksan lines. Halliburton tested lines to 7500 psi before commencing BOP test. Halliburton tested subsea BOPs on 6-5/8" drill pipe as per BP and MMS requirements. Tested lower annular and all associated valves to 250 psi low and 3500 psi high for five minute straight line. Tested upper annular, associated valves and kelly hose to 250 psi low and 5000 psi high until green light on digital BOP test program was reached. Tested all rams and failsafe valves to 250 psi low and 6500 psi high until green light on digital BOP test program was reached. Function tested BOPs on YELLOW pod from the toolpusher's control panel. Rigged down chicksan lines and laid out test kelly. POOH from 5814' to 5126' md. Decision was made to trip back in hole to change out manual IBOP so that the wear sleeve in well head was not disengaged. Tripped back in hole from 5126' to 5814' md. Changed out manual IBOP on top drive system. Made up NU-TEC test stump to IBOP and tested same to 250 psi low and 6500 psi high for five minutes each test. Held pre-job safety meeting with crew on performing casing test. Tested casing with Halliburton to 3500 psi for five minutes with successful results. Rigged down chicksan lines and laid out test kelly.

Ran in hole from 5814' to 5881' md where cement was tagged. Drilled ratty cement from 5881' to 5936' md. Displaced annulus, choke, kill and boost lines from seawater to 10.6-ppg SBM. Established slow pump rates at 5936' md. Drilled ratty cement from 5936' to 6081' md. Washed down from 6081' to 6217' md. Attempted to trip in hole. At 6606' md, tagged with 10k. Continue washing and reaming down. Note: Observed 5-10k WOB at the following depths: 6690' md, 6710' md, 6722' md, 6734' md and 6829' md. Continued washing down to top of 18" liner at 7479' md. Circulated bottoms up, check flow and POOH from 7479' to 586' md. Racked back HWDP and 8-1/4" drill collars before laying down 18-1/8" BHA. Tested casing to 250 psi low and 3000 psi high for 30 minutes. Pumped 15-1/4 bbls, bled back 15-1/4 bbls (Max psi 3050, ISIP 3008 psi, after 30 minutes 2950 psi) Cleaned and cleared rig floor.

16-1/2" x 20" Hole Section 9076' to 12350' md

Picked up and tripped in the hole with Bit No. 4 a 16-1/2" Hughes HC507Z with jets (7 x 14) Sperry MWD tools with Sperry PWD, Sperry Geo-Pilot and Baker 20" under-reamer from surface to 85' md. Plugged in and programmed MWD tools. Continue tripping in hole from 85' to 4000' md. Filled pipe and shallow tested MWD tools. Ran in hole from 4000' to 7476' md where cement on top of 18" liner was tagged. Note: Cement pushed down hole from previous bit run. Drilled cement on top of liner from 7476' to 7489' md, then washed down to 7576' md. Resumed tripping in hole from 7576' to 8818' md where ratty cement stringer was tagged. Washed and reamed through stringers from 8818' to 8872' md where firm cement was tagged. Drilled firm cement from 8872' to 8930' md with the following parameters: WOB: 10k, RPM: 30-40, TORQUE: 10-14k ft/lbs, FLOW: 1000 gpm, SPP: 3040 psi, P/U: 432k, S/O: 422k, ROT: 426k. Drilled cement from 8930' to 8946' md. (Drilled float collar at 8932' md) Drilling parameters were: WOB: 10k, RPM: 30-40, TORQUE: 10-14k ft/lbs, FLOW: 1000 gpm, SPP: 3040 psi, P/U: 432k, S/O: 422k, ROT: 426k. Continued drilling cement from 8946' to 8972' md with the following parameters: WOB: 10-15k, RPM: 30-40, TORQUE: 10-14k ft/lbs, FLOW: 1000 gpm, SPP: 3040 psi, P/U: 432k, S/O: 422k, ROT: 426k. Drill out 18" casing shoe from 8972' to 8975' md with the following drilling parameters: WOB: 10-20k, RPM: 20-30, TORQUE: 14-21k ft/lbs, FLOW: 1000 gpm, SPP: 3040 psi, P/U: 432k, S/O: 422k, ROT: 426k. Drilled firm cement from 8975' to 9018' md with parameters: WOB: 10k, RPM: 30-40, TORQUE: 10-14k ft/lbs, FLOW: 1000 gpm, SPP: 3040 psi, P/U: 432k, S/O: 422k, ROT: 426k. Washed and reamed from 9018' to bottom at 9076' md. Drilled 10 feet new formation from 9076' to 9086' md with the following drilling parameters: WOB: 1-10k, RPM: 30-40, ROP: 85 ft/hr, TORQUE: 10-14k ft/lbs, FLOW: 1000 gpm, SPP: 3040 psi, P/U: 432k, S/O: 422k, ROT: 426k.

Circulated bottoms up to well head before checking well for flow with static results. POOH from 9086' to 8956' md. Picked up test kelly and rigged up chicksan lines. Pumped up static density of 10.83-ppg with Sperry PWD. Broke circulation down choke and kill with Halliburton and tested lines to 1500 psi. Attempted twice to perform leak off test. Shut down testing due to observing gain in trip tank. Checked valve alignment on trip tank and repositioned pipe in annular. While breaking circulation on 3rd LOT attempt, a pressure increase was observed after pumping 5 bbls followed by no returns due to packing off. Rigged down chicksan lines and laid out test kelly. Worked pipe and freed pack off. Staged pumps up and CBU. Max gas was 695u (23.16%) with no mud cut recorded. Picked up test kelly again and pumped up static density of 10.79-ppg with Sperry PWD. Halliburton tested lines to 1500 psi before the upper pipe rams were closed and LOT commenced. Pumped 4 bbls mud (Max pressure: 352 psi, ISIP: 290. After 10 minutes: 246) Gained 1.7 bbls in trip tank while performing LOT. Opened pipe rams and pumped up static density of 11.29-ppg using Sperry PWD. Pumped 70 bbls of 12.9-ppg slug.

Attempt to POOH. Recorded 74k overpull and the well was observed to be swabbing. Pumped out of hole from 8956' to 7991' md inspecting pipe for potential washout while pumping out. Note: Drag fell off at 7991' md. Continued pulling out of hole wet visually inspecting drill pipe for potential washout from 7991' to 7073' md. Locate on upper before circulating down kill line with Halliburton and successfully testing same to 250 psi low, 2000 psi high. Halliburton broke circulation again down kill line. Closed test rams and upper annular. Tested upper annular to 250 psi, 500 psi and 1000 psi for straight line on each test. Continued POOH wet visually inspecting drill pipe for potential washout from 7073' to 3862' md. Note: Pulled wear sleeve with 50k overpull. Pumped 40 bbls of 13.0-ppg slug before continue to POOH. POOH from 3862' to surface monitoring displacement on the trip tank.

Re-pin Drill Quip wear sleeve and trip in hole with same 16-1/2" x 20" BHA (Bit No. RRB4.1) from surface to 4000' md. Filled pipe and shallow tested MWD tools successfully. Continue tripping in hole from 4000' to 8956' md. Wash down from 8956' to 9086' md. Circulated bottoms up to well head before pulling out of hole from 9086' to 8953' md. Pumped up static density with Sperry PWD of 10.84-ppg. Picked up test kelly, rigged up chicksan lines and tested with Halliburton to 1500 psi. Commenced attempting leak off with Halliburton pumping 5 bbls. (Max pressure: 317 psi, ISIP: 269 psi, After 10 minutes: 250 psi) Bled back 3-1/4 bbls. Decision made to POOH to Squeeze. Pumped out of hole from 8953' to 8267' md due to hole swabbing. Continued POOH wet from 8267' to 7439' md. Checked well for flow before pumping 70 bbls of 13.0-ppg slug. Pulled out of the hole from 7439' to 1241' md. Note: Pulled wear sleeve free with 50k overpull. Continue POOH with BHA from 1241' to 225' md. Lay down 16-1/2" x 20" BHA from 225' md to surface. Cleaned and cleared rig floor.

Held pre-job safety meeting with crew on picking up 3-1/2" tubing. Rigged up Weatherford 3-1/2" tubing equipment and picked up 3-1/2" tubing off of skate from surface to 1214' md. Rigged down tubing equipment. Continued running in hole on 6-5/8" drill pipe from 1214' to 1489' md. Circulated through tubing at 10 bbls/min to ensure there were no obstructions in pipe. Tripped in hole from 1489' to 9086' md. Circulated bottoms up to the well head and checked well for flow with static results. Rack back one stand, picked up cement kelly and rigged up chicksan lines. Halliburton pumped 10 bbls of 13.5-ppg tuned spacer before testing lines to 5000 psi. Continued pumping 140 bbls of 13.5-ppg tuned spacer for a total of 150 bbls ahead of cement. Mixed and pumped 200 bbls of 16.4-ppg premium cement. Halliburton continued pumping 5 bbls of tuned spacer before displacing cement with 215 bbls of 10.6-ppg SBM at 8 bpm. (Calculated cement from 9086' to 8374' md) Rigged down chicksan lines and laid out cement kelly. Pull out of hole from 9086' to 7814' md. Dropped 7" nerf ball, picked up cement kelly and rigged up chicksan lines before circulating one drill string volume to clear nerf ball. Halliburton then broke circulation down drill pipe and kill line testing lines to 2000 psi. Closed annular and squeezed 100 bbls cement into formation. Shut down and hold squeeze (ISIP: 330 psi, After 6 hours: 243 psi). Bled back pressure, opened annulars and monitored well on trip tank, static. Pumped 60 bbls of 13.0-ppg slug before POOH from 7814' md to 1214' md. Held pre-job meeting on rigging up tubing equipment to lay down 3-1/2" tubing. Continued POOH laying down tubing from 1214' md to surface. Cleaned and cleared rig floor and serviced block and top drive.

Picked up and tripped in hole with Bit No. RRB4.2 a Hughes HC507Z with jets (7 x 14) Sperry MWD tools with Sperry PWD, Sperry Geo-Pilot and Baker 20" under-reamer from surface to 224' md. MWD programmed tools. Note: Function tested blind shear rams on BLUE pod using the driller's control panel. Tripped in hole to 3998' md. Filled pipe and shallow tested MWD tools successfully. Continued tripping in hole with 16-1/2" x 20" drilling assembly from 3998' to 8679' md. Washed and reamed from 8679' to 8866' md where firm cement was tagged. Drilled cement from 8866' to 9086' md with WOB averaging 5k and ROP averaging 55 fph. Drilled 10 feet of new formation from 9086' to 9096' md. Circulated bottoms up and conditioned mud. Checked well for flow with static results before POOH from 9096' to 8954' md. Pumped up static density for 10.7-ppg with Sperry PWD. Picked up test kelly, rigged up chicksans and test lines to 1500 psi. Performed leak off test pumping 4-1/2 bbls at 1/2 bpm. Max pressure: 550 psi (EMW 11.8-ppg @ 8969' tvd) ISIP: 501 psi, after 10 minutes: 439 psi (EMW 11.5-ppg). Pumped up static density of 11.71-ppg with Sperry PWD immediately following test. Rigged down chicksan lines and laid out test kelly. Dropped 1-3/4" reamer activation ball and tripped in hole from 8954' to 9078' md. Pumped down ball at 35 spm. Ball sheared pins with 2000 psi. Begin reaming from 9078' md (8984' md reamer depth) to bottom at 9098' md. Confirmed reamer was open with 5k overpull against cement. Increased mud weight from 10.6-ppg to 10.9-ppg while drilling. Drill 16-1/2" x 20" hole section from 9098' to 9700' md with the following drilling parameters: WOB: 1-3k, RPM: 80-120, ROP: 90-130 ft/hr, TORQUE: 6-10k ft/lbs, FLOW: 1000 gpm, SPP: 2950 psi, P/U: 448k, S/O: 437k, ROT: 440k, ECD: 11.21-ppg, GAS: 90-244 units (3-8.1%).

Continued drilling 16-1/2" x 20" hole section from 9700' to 10610' md with the following drilling parameters: WOB: 1-3k, RPM: 80-120, ROP: 90-130 ft/hr, TORQUE: 6-10k ft/lbs, FLOW: 1000 gpm, SPP: 3050 psi, P/U: 448k, S/O: 437k, ROT: 440k, ECD: 11.39-ppg, GAS: 110-150 units (3.6-5%). Note: Increased mud weight from 10.9-ppg to 11.1-ppg at 10260' md while drilling ahead. Drilled from 10610' to 11605' md with parameters averaging: WOB: 2-5k, RPM: 119-121, ROP: 110 ft/hr, TORQUE: 8-15k ft/lbs, FLOW: 1000 gpm, SPP: 3200 psi, P/U: 495k, S/O: 482k, ROT: 487k, ECD: 11.46-ppg, GAS: 95-125 units (3.1-4.1%). Drilled from 11605' to 11887' md with the drilling parameters as follows: WOB: 2-5k, RPM: 119-121, ROP: 90-120 ft/hr, TORQUE: 8-15k ft/lbs, FLOW: 1000 gpm, SPP: 3200 psi, P/U: 505k, S/O: 492k, ROT: 491k, ECD: 11.44-ppg, GAS: 60-130 units (2-4.3%). Picked up off bottom and re-boot Sperry computers. Resumed drilling from 11887' to connection depth of 12246' md with drilling parameters as follows: WOB: 2-5k, RPM: 119-121, ROP: 110 ft/hr, TORQUE: 8-15k ft/lbs, FLOW: 1000 gpm, SPP: 3200 psi, P/U: 505k, S/O: 492k, ROT: 491k, ECD: 11.46-ppg, GAS: 100-160 units (3.3-5.5%). Picked up off bottom and circulate out gas while raising mud weight from 11.1-ppg to 11.3-ppg. Max gas was 2970 units (99%) with a low mud cut of 10.6-ppg. Increased mud weight from 11.3-ppg to 11.4-ppg and circulate out. Flow checked well for 10 minutes before pumping up static density of 11.53-ppg with Sperry PWD. Took SCRs and circulated bottoms up at 12246' md. Checked well for flow with static results. Note: Gas levels fell below 200 units. Function tested BOPs on the BLUE pod using the driller's control panel. Resumed drilling 16-1/2" x 20" hole section from 12246' to 12350' md with drilling parameters: WOB: 2-5k, RPM: 110-120, ROP: 40-50 ft/hr, TORQUE: 8-15k ft/lbs, FLOW: 1000 gpm, SPP: 3200 psi, P/U: 526k, S/O: 510k, ROT: 508k, ECD: 11.63-11.72-ppg, GAS: 125-180 units (4.1-6%).

Picked up and circulated to clean hole and lower ECDs. Started losing full returns and flow decreased. Decreased pump rate to 800 gpm with mud losses continuing. Shut down pumps and monitor well. Well taking mud at a rate of 6 bpm. Total mud loss was 121 bbls. Commenced pumping at 6 bpm with boost pump to keep hole full while preparing high concentration LCM pill. Pumped and spotted 174 bbl LCM pill at 18" shoe pumping 600 gpm with no returns. Kept annulus full with trip tank with circulating pill. Trip tank was losing at a rate of 2-4 bpm. After pill was spotted at 18" shoe, trip tank became static. Total mud loss while pumping and spotting LCM pill was 2386 bbls. Monitored well on trip tank with an initial rate of loss of 18 bph that decreased and leveled out at 2 bph after one hour of monitoring. Closed annular and monitored well on mini trip tank while boosting riser at 70 spm. Opened annular and monitored well on trip tank at 12350' md. Well was deemed to be static. POOH from 12350' to 11569' md with initial drag in pilot hole of 40-60k. Drag dropped off at 12254' md.

Pipe pulled dry with the hole taking 1.5 bbls. Monitored well on trip tank at 11569' md, well static. Pulled out of hole from 11569' to 10881' md. Pipe pulled dry with hole taking 0.9 bbls of mud. Monitored well with static results. Made up top drive and pumped 13 bbls down drill pipe. Continued POOH from 10881' to 10193' md with pipe pulling dry and hole taking 0.8 bbls. Monitored well on trip tank with static results. POOH from 10193' to 9367' md with pipe pulling dry and hole taking 2.4 bbls of mud. Made up top drive and pumped 15 bbls down drill pipe. Continued POOH from 9367' to 8908' with pipe pulling dry and hole taking 3.6 bbls of mud. Noted 30-50k overpull from 9280' to 9142' md. Broke circulation at 8908' md staging pumps up 30 spms with full returns. Continued to stage up pumps getting full returns pumping at 70 spm with SPP of 600 psi. Note: Pumped a total of 5700 strokes. Ran in hole from 8908' to 9080' md to position reamer cutters below casing shoe. Staged pumps up to 40 spm, began to lose returns. Note: Pumped a total of 360 strokes. Shut pumps down and monitored well on trip tank with hole taking 1.4 bbls in 20 minutes. Pumped 174 bbls of 84 ppb high concentration LCM pill down drill pipe at 50 spm with no returns. Note: Kept hole full down backside with trip tank. Monitored well on trip tank with a loss rate of 360 bph. Closed annular and monitored BOP and LMRP pressure while building 200 bbl FORM-A-SQUEEZE pill. Opened annular and POOH from 9080' to 8907' md to position bit inside of casing. Monitored well on trip tank with a loss rate of 360 bph.

Opened annulus to MINI trip tank observing a rate of loss of 18 bbls per hour. Pumped 180 bbls FORM-A-SQUEEZE pill at 5 bbls/min with annular closed. Displaced pill to 18" casing shoe. Opened annular with 30 bbls pumped outside of bit and pumped remainder of pill with no returns, filling annulus with trip tank and boost line. Shut pumps down, unable to keep hole full with trip tank with losses greater than 6 bbls/min. Closed annular and monitored well. Total mud lost was 910 bbls. Opened annulus to MINI trip tank and monitored with a rate of loss of 2 bbls/min. Shut annulars and monitored volumes and BOP pressures. Opened well to MINI trip tank again and monitored with a rate of loss of 2 bbls/min. Closed annulars and monitored well and BOP pressures. Opened annulus to trip tank and monitored with a rate of loss of 2.2 bbls/min. Closed annulars and monitored well and BOP pressures. Opened up well and monitored with a rate of loss of 2.5 bbls/min. before closing again to monitor volumes and BOP pressures. Opened well again and monitored with a rate of loss of 2.5 bbls/min before shutting back in to monitor pressures and volumes. Fill backside with 16.2 bbls of 7.2-ppg base oil down kill line reducing the hydrostatic pressure at the bottom of the hole to 11.12-ppg EMW and 11.02-ppg EMW at the shoe. Continued to monitor volumes and pressures while waiting on boat to take on mud and LCM. Opened kill line to well with well talking 0.1 bbls of base oil. Continue to monitor pressures and volumes. Opened kill side to annulars, static. Continued monitoring BOP pressures and trip tank volumes. Mixed and pumped 160 bbls of 11.1-ppg LCM pill, displacing from drill pipe with 11.1-ppg SBM. Displaced pill at 6 bpm with annular closed then slowed to a rate of 2.5 bpm after pill cleared the bit. Displaced 10 bbls beneath bit. Note: Observed 160 psi increase on drill pipe pressure after having pumped 1300 strokes of displacement behind the pill. Monitored well on trip tank for 1 hour before opening up annular. Well started taking mud at a rate of 7.5 bbls/min (Lost 60.5 bbls). Closed annular and monitored BOP pressures and volumes on MINI trip tank, static.

POOH from 8907' to 8620' md. Monitored BOP pressures and MINI trip tank, well static. Total mud lost over 24 hour period was 1370 bbls. Mixed and pumped 185 bbls of 11.1-ppg LCM pill and displace with 11.1-ppg SBM at 50 stroke per minute. Displaced 10 bbls below bit leaving 85 bbls of LCM in casing. Shut pumps down and monitored trip and BOP pressures with static results. Note: Observed 200 psi increase on drillpipe pressure 1000 strokes behind pill. Monitored MINI trip tank on kill line with 11.1-ppg for 15 minutes with static results. Filled MINI trip tank with 11.4-ppg SBM. Tested choke line, good test. Pumped 3 bbls of mud through choke line, opened annulus to trip tank with a rate of loss of 21-1/2 bbls/hr before closing annulus. Opened choke line to hole numerous times filling with 11.4-ppg to monitor rate of loss. Rates of loss increased each time and were as follows: 24 bbls/hr, 30 bbls/hr, 48 bbls/hr, 60 bbls/hr, 60 bbls/hr, 73 bbls/hr, 78 bbls/hr and 96 bbls/hr. Closed choke line to hole. Total mud losses through MINI trip tank was 80.2 bbls. Mixed FORM-A-SET pill while monitoring well for volumes and pressures on BOP and LMRP. Held pre-job safety meeting with crew on pumping FORM-A-SET pill. Pumped 10 bbls of SAFE SOLV OM sweep with 25 gallons of SOLV OM. Pumped 30 bbls of SAFE SURF O sweep with 420 gallons of SOLV OM. Pumped 20 bbls of 11.1-ppg HI VIS sweep. Pumped 180 bbls of FORM-A-SET AK pill. Displaced pill with 298 bbls of 11.1-ppg SBM at 180 gpm (34 spm) leaving 10 bbls of pill, 20 bbls of spacer and 65 bbls of 11.1-ppg SBM in casing. Maximum drill pipe pressure was 574 psi. Drill pipe pressure started decreasing after having pumped 2000 strokes of mud displacement. Final drill pipe pressure was 460 psi with well head pressure of 2070-2090 psi. Note: Pumped pill down drill pipe with annular closed with no increase or decrease in pressure at well head observed during job. Took 17 strokes to fill drill pipe with 11.1-ppg when job started. Monitored pressures and volumes while waiting on FORM-A-SET pill to set up. Monitored well on MINI trip tank putting 11.4-ppg SBM down kill side. Lost 2.6 bbls in 8 minutes (19.5 bph). Continued to monitor pressures and volumes.

Continued monitoring pressures and volumes while mixing SwelLCM / EZ Squeeze pill. Opened well on choke line and monitor losses. Well was taking at a rate of 18 bbl/hr with 11.4-ppg SBM. Closed choke and continued to monitor pressure. POOH from 8620' to 8327' md losing at a rate of 5 bpm (300 bph). Opened annular and monitored losses, losing at a rate of 5 bpm (300 bph). Closed annular and continued monitoring pressure and volumes while building SwelLCM / EZ Squeeze pill. Pumped 109 bbls of SwelLCM pill down drill pipe at 35 strokes per minute with annular closed and choke line closed to well. Chased pill with an additional 5 bbls of 11.1-ppg mud. Shut pumps down and monitor pressures and volumes while building EZ Squeeze pill. Pumped 192 bbls of 11.1-ppg EZ Squeeze (1531 strokes) down drill pipe at 35 strokes per minute with choke and annular closed. Displaced pill with 238 bbls (1889 strokes) of 11.1-ppg mud at 35 strokes per minute. Note: Left 10 bbls in drill string, 25 bbls below shoe and 167 bbls inside casing. At 1700 strokes pumped, pressure on drill pipe started increasing from 456 psi initial to 489 psi final after displacement. BOP pressure increased from 2110 psi to 2120 psi.

After waiting for 2 hours, started performing hesitation squeeze with 11.1-ppg mud. Squeeze details as follows:

| SQUEEZE No: | VOLUME: | RATE: | ISIP: | FINAL: | BLEED OFF: | Total BBLS Pumped: |
|-------------|---------|---------|----------|---------|--------------------|--------------------|
| No.1 | 5 bbls | 3/4 bpm | 0 psi | 150 psi | 150-0 psi in 1 min | 5 bbls |
| No.2 | 5 bbls | 3/4 bpm | 0 psi | 170 psi | 170-0 psi in 1 min | 10 bbls |
| No.3 | 5 bbls | 1 bpm | 0 psi | 190 psi | 190-0 psi in 1 min | 15 bbls |
| No.4 | 5 bbls | 3/4 bpm | 0 psi | 157 psi | 157-0 psi in 1 min | 20 bbls |
| No.5 | 5 bbls | 3/4 bpm | 0 psi | 158 psi | 158-0 psi in 1 min | 25 bbls |
| No.6 | 5 bbls | 3/4 bpm | 0 psi | 147 psi | 147-0 psi in 1 min | 30 bbls |
| No.7 | 5 bbls | 3/4 bpm | 0 psi | 144 psi | 144-0 psi in 1 min | 35 bbls |
| No.8 | 5 bbls | 3/4 bpm | 0 psi | 138 psi | 138-0 psi in 1 min | 40 bbls |
| No.9 | 5 bbls | 3/4 bpm | 0 psi | 154 psi | 154-0 psi in 1 min | 45 bbls |
| No.10 | 5 bbls | 3/4 bpm | 0 psi | 154 psi | 154-0 psi in 1 min | 50 bbls |
| No.11 | 5 bbls | 3/4 bpm | 0 psi | 150 psi | 150-0 psi in 1 min | 55 bbls |
| No.12 | 5 bbls | 1/2 bpm | 0 psi | 145 psi | 145-0 psi in 1 min | 60 bbls |
| No.13 | 5 bbls | 1/2 bpm | 0 psi | 145 psi | 158-0 psi in 1 min | 65 bbls |
| No.14 | 5 bbls | 1/2 bpm | 0 psi | 150 psi | 150-0 psi in 1 min | 70 bbls |
| No.15 | 10 bbls | 3/4 bpm | 0 psi | 109 psi | 109-0 psi in 1 min | 80 bbls |
| No.16 | 20 bbls | 3/4 bpm | 2120 psi | 150 psi | 150-0 psi in 1 min | 90 bbls |
| No.17 | 20 bbls | 3/4 bpm | 2140 psi | 155 psi | 155-0 psi in 1 min | 110 bbls |
| No.18 | 20 bbls | 3/4 bpm | 2140 psi | 160 psi | 160-0 psi in 1 min | 130 bbls |
| No.19 | 20 bbls | 3/4 bpm | 2140 psi | 126 psi | 126-0 psi in 1 min | 150 bbls |
| No.20 | 20 bbls | 1/2 bpm | 2140 psi | 145 psi | 145-0 psi in 1 min | 170 bbls |
| No.21 | 20 bbls | 1/2 bpm | 2140 psi | 142 psi | 142-0 psi in 1 min | 190 bbls |
| No.22 | 20 bbls | 1/2 bpm | 2130 psi | 140 psi | 140-0 psi in 1 min | 210 bbls |

Mix 100 bbls 11.1-ppg spacer. Mix 220 bbls 11.1-ppg FORM-A-SET pill and 200 bbls of 11.1-ppg FORM-A-SQUEEZE pill. Continued monitoring pressure & volumes after performing hesitation squeeze with SWELLCM / EZ Squeeze at 8320' md. Completed 4 hour shut down after hesitation squeeze. Held pre-task safety meeting on flushing the choke and kill line and locating on upper annular. Closed upper pipe rams. Located on upper annular from 8320' to 8328' md. Tested choke & kill lines, good test. Lined up #1 mud pump to flush the choke and kill lines, no returns. After trouble shooting it was determined pumping not possible due to suction strainer being clogged. Lined up #2 mud pump and flushed choke & kill lines. Took returns through poor-boy degasser. Noted 44 units (1.4%) of gas at 1130 strokes. Shut down pumping and reversed the pumping line-up to down the kill and up the choke line taking returns through the poor-boy degasser. Opened upper pipe rams and positioned bit from 8328'

to 8320' md. Filled mini trip tank with 6.9-ppg base oil. Continued to monitor pressures and volumes. Opened annulus on kill line and monitored losses of 1.3 bbls per hour, filling with 1.41 bbls of 6.9 ppg base oil. Shut annulus and filled trip tank with 11.4-ppg mud. Opened annular and monitored losses at a rate of 20 bbls per hour. Closed annular. Opened annulus on kill line to the mini trip tank and monitored losses at loss rate of 1.2 bbls per hour.

Held pre-task safety meeting for pumping FORM-A-SQUEEZE / FORM-A-SET pill. Pumped FORM-A-SQUEEZE pill as per MI procedure. Pumped 40 bbls of spacer followed by 186 bbls of FORM-A-SQUEEZE. Pressures observed were as follows: (Pump pressure = 534 psi, BOP pressure = 2140 psi, LMRP pressure = 2960 psi) Tested Halliburton lines to 500 psi, good test. Mixed XL into FORM-A-SET and continued to pump 164 bbls of FORM-A-SET pill. Note: Could not get the full 200 bbls due to pill setting up in pit and loosing prime on pump. Pumped pills at 5 bpm. Pressures observed were: (Pump pressure = 525 psi, BOP pressure = 2110 psi, LMRP pressure = 2960 psi) Pumped 40 bbls of spacer (Pump pressure = 885 psi). Turned over to Halliburton for displacement. Halliburton displaced with 260 bbls 11.1-ppg mud at 5 bpm. Note: Drill pipe pressure climbed from 600 psi to 1438 psi due to thickness of FORM-A-SET, BOP pressure = 2110 psi, LMRP pressure = 2970 psi. A total of 64 bbls FORM-A SET was pumped into formation leaving 100 bbls inside casing .

Halliburton squeezed 75 bbls of 11.1-ppg SBM at 1/2 bpm.

Squeeze procedure as follows; BOP pressures, and Cement Unit pressures. ½ BPM with Halliburton.

| SQUEEZE No: | VOLUME: | BOP PSI: | CMT Unit PSI: | Total BBLS Pumped: | ISDP PSI: |
|----------------------------|---------|----------|---------------|--------------------|-----------|
| | | | | | 0 psi |
| No.1 | 10 bbls | 2160 psi | 190 psi | 10 bbls | 0 psi |
| No.2 | 5 bbls | 2170 psi | 200 psi | 15 bbls | 0 psi |
| No.3 | 5 bbls | 2180 psi | 208 psi | 20 bbls | 0 psi |
| No.4 | 5 bbls | 2190 psi | 213 psi | 25 bbls | 0 psi |
| No.5 | 5 bbls | 2200 psi | 218 psi | 30 bbls | 0 psi |
| No.6 | 5 bbls | 2200 psi | 210 psi | 35 bbls | 0 psi |
| No.7 | 5 bbls | 2200 psi | 213 psi | 40 bbls | 0 psi |
| No.8 | 5 bbls | 2190 psi | 210 psi | 45 bbls | 0 psi |
| No.9 | 5 bbls | 2200 psi | 218 psi | 50 bbls | 0 psi |
| No.10 | 5 bbls | 2210 psi | 237 psi | 55 bbls | 0 psi |
| No.11 | 5 bbls | 2220 psi | 248 psi | 60 bbls | 0 psi |
| No.12 | 5 bbls | 2230 psi | 0 psi | 65 bbls | 250 psi |
| No.13 | 5 bbls | 2240 psi | 0 psi | 70 bbls | 259 psi |
| No.14 Shut down 10 minutes | 1 bbl | 2230 psi | 0 psi | 71 bbls | 252 psi |
| No.15 Shut down 10 minutes | 3 bbls | 2230 psi | 0 psi | 72-75 bbls | 252 psi |

Shut down FORM-A-SET squeeze. Held pressure for 2 hours (ISIDPP 161psi - BOP 2190 psi - SIDPP after 2 hrs. 110 psi - BOP 2180 psi) Monitored drill pipe and BOP pressure. Open annular and monitor well on trip tank for 30 min, well static. Closed annular before cutting mud weight back from 11.4-ppg to 11.2-ppg in active system. Cut mud weight back in riser from 11.4-ppg to 11.2-ppg. Opened annular and monitor well on trip tank for 30 min, well static.

Tripped in hole from 8320' to 8878' md. Noted drag of 2-4k at 8776' md and 6k drag at 8878' md. Pulled up to 8770' md before staging pumps up to 75 spm to CBU. Cut mud weight from 11.4-ppg to 11.2-ppg. Note: ECD while circulating was 11.47-ppg. Continued CBU at 8770' md with 375 gpm (SPP 1200 psi). Max ECD = 11.45-ppg, Low ECD = 11.38-ppg. Maximum gas while CBU was 72 units (2.4%) with 18 bbls of SBM lost. Flow checked well. Well static after 3-1/2 min.

Took SCRs with 11.2-ppg. Monitored well on trip tank for gains or losses at 8770' md for 15 min before POOH. Well was deemed static. Pulled out of the hole from 8770' to 7489' md at 5 minutes per stand. Monitored active system for gains or losses. Hole taking good mud. Flow checked well on trip tank at 7489' md, well static. Continue POOH from 7489' to 6337' md at 3 minutes per stand. Flow checked / monitored well on the trip tank prior to pulling BHA across the stack, well static. Pumped 50 bbls of 13.6-ppg slug at 6337' md. Continued to pull out of the hole from 6337' to 1247' md. Note: Pulled wear sleeve with 40k over pull. POOH racking back 6-5/8" HWDP from 1247' to 224' md. Laid out BHA from 224' to surface. Began testing choke manifold to 250 psi low and 6500 psi high. Functioned blind shear rams from driller's control panel on the BLUE pod. Slipped and cut drill line and re-calibrated block before holding pre-job meeting with crews on picking up new BHA.

16-1/2" x 20" Clean Out Run 8770' to 11638' md

Picked up and tripped in the hole with Bit No.5 a 16-1/2" Hughes GTX-CG1 (Rock Bit) with jets (3x15) Sperry MWD tools with Sperry PWD, and Baker 20" under-reamer from surface to 200' md. Note: Continued to test choke manifold to 250 psi / low & 6500 psi / high while running in hole. Ran in the hole with 16-1/2" x 20" drilling assembly from 200' to 1223' md. Ran in the hole from 1223' to 4000' md. Filled drill pipe and successfully shallow tested MWD tools at 400 gpm. Continued running in the hole with 16-1/2" x 20" drilling assembly from 4000' md to 6726' md. Set Drill Quip wear sleeve with 20k down, picked up 20k overpull, slacked off and set 40k down, sheared pins, picked up and left 5k down. Rotated 1/2 turn to the right to unjag. Filled drill pipe before rigging up chickens lines, picking up test kelly and locating across annular. Tested lines to 1500 psi with Halliburton, good test.

Test BOPs as per BP and MMS requirements on 6-5/8" drill pipe. Test performed from tool pusher's control panel on YELLOW pod. Tested lower annular and all associated valves to 250 psi low and 3500 psi high for 5 minute straight line each test. Test upper annular, kelly hose and all associated valves to 250 psi low for five minutes straight line and 5000 psi high test until green light on Halliburton anatomized digital BOP test program was reached. Tested pipe rams and fail safe valves to 250 psi low for five minute straight line and 6500 psi high until green light on Halliburton anatomized digital BOP test program was reached. Tested upper annular and upper outer kill valve to 250 psi low for five minute straight line and 3500 psi high until green light on Halliburton anatomized digital BOP test program was reached. Performed function test on BOPs and diverter from the driller's control panel on the BLUE pod. Note: BOP testing was performed at 6726' md. Rigged down chickens lines and laid out test kelly.

Continued to run in the hole with 16-1/2" x 20" clean out assembly from 6726' to 7489' md at 3 minutes per stand. Ran in the hole with 16-1/2" x 20" clean out assembly from 7489' to 8770' md at 5 minutes per stand. Filled drill pipe at 8770' md. Broke circulation & staged pumped up to 400 gpm. ECD = 11.42-ppg. P/U: 421k, S/O: 414k, ROT: 418k. Washed and reamed down at 400' per hour from 8770' to 8914' md with parameters as follows: WOB: 0, RPM: 30, FLOW: 400 gpm. Max ECD observed was 11.43-ppg. Continued washing and reaming down at 200' per hour with 16-1/2" x 20" assembly from 8914' to 9300' md with parameters as follows: WOB: 0, RPM: 30, FLOW: 400 gpm. Max ECD observed was 11.43-ppg. Circulated bottoms up from 9300' md to well head before

taking slow pump rates and continuing reaming operations. Washed and reamed down at a rate of 200-500' per hour from 9300' to 9878' md with parameters as follows: WOB: 0, RPM: 30, FLOW: 400 gpm, SPP: 1050 psi. Max ECD observed was 11.43-ppg. Circulated bottoms up to well head. Continued washing down from 9878' to 10433' md with parameters as follows: WOB: 0, RPM: 30, FLOW: 400 gpm, SPP: 1050 psi. Circulated bottoms up to well head at 10433' md. Continued washing and reaming down with 16-1/2" x 20" clean out assembly from 10433' to 10984' md with the following parameters: WOB: 0, RPM: 35, FLOW: 400 gpm, SPP: 1040 psi, P/U: 480k, S/O: 468k, ECD: 11.35-ppg, Max gas: 97 units (3.2%). Circulated bottoms up at 400 gpm (boost at 370 gpm). Max gas was 1087 units (36.2%) with a low mud cut of 10.8-ppg from 11.2-ppg. Resumed washing and reaming from 10984' to 11258' md with parameters: WOB: 0, RPM: 35, FLOW: 400 gpm, SPP: 1040 psi, P/U: 484k, S/O: 470k, ECD: 11.31-ppg, Max gas: 198 units (6.6%). Washed and reamed from 11258' to 11395' with the following parameters: WOB: 0, RPM: 35, FLOW: 400 gpm, SPP: 1030 psi, P/U: 480k, S/O: 468k, ECD: 11.30-ppg, Max gas: 178 units (5.9%). Circulated bottoms up at 400 gpm (boost at 370 gpm) SPP: 1020, ECD: 11.29-ppg. Maximum gas was 2690 units (89.6%) with a low mud cut of 10.9-ppg from 11.2-ppg. Note: After bottoms up, ECD increased back to 11.34-ppg. Continued washing and reaming hole with 16-1/2" x 20" clean out assembly from 11395' to 11638' md with the following parameters: WOB: 0, RPM: 35, FLOW: 400 gpm, SPP: 1900 psi, P/U: 484k, S/O: 470k. Note: TD for reaming section called after started taking weight at 11638' md. Weight on bit increased to 5-6k and pump pressure increased from 3850 psi to 4010 psi.

Circulated bottoms up twice from 11638' md. Max gas was 2566 units (85.5%) with a low mud cut of 10.5-ppg from 11.2-ppg. Pumped & spotted 600 bbls of 13.5-ppg PAD mud at 11638' md. Chased with 236.5 bbls of 11.2-ppg mud. Left 100 bbls inside of drill string. POOH with 16-1/2" x 20" clean out assembly from 11638' to 8884' md at 5 minutes per stand. Flow checked at 18" shoe, well static. Circulated bottoms up from 8884' md with 11.2-ppg SBM. Pumped up ESD of 11.36-ppg with Sperry PWD. Max gas was 242 units (8.0%). Flow check well, static. Pump 30 bbls of 13.7-ppg slug at 8884' md. POOH from 8884' to 1223' md. POOH with HWDP and 8 1/4" drill collars from 1,223' md to 199' md. Lay down drilling assembly from 199' md to surface. Clean and clear rig floor. Hold pre-task meeting with crew on rigging up casing equipment.

16" Casing

Rig up 16" casing handling equipment. Conducted pre-task safety meeting and reviewed task specific think plan on running 16" casing with crews. Picked up and ran 145 joints of 16", P-110, 97 ppf, Hydril 511 casing from surface to 6335' md. Ran 1 min/jt to 2300' md, 1.5 min/jt to 4400' md and 2 min/jt to 6335' to control mud loss. Lost 25 bbls while picking up and running casing. Rigged down casing elevators and OES flow back tool. Rigged up drill pipe elevators. Pick up Drill Quip hanger. Made up hanger with total weight 398k. Rig down casing equipment. Cleaned and cleared rig floor and rigged up 750 ton bails and elevators. Continued running in hole with 16" casing on 6-5/8" landing string from 6424' to 9011' md. Installed diverter and DTD. Continue run in hole with 16", 97 ppf, P-110, Hydril 511 casing on 6-5/8" landing string from 9011' to 11560' md. Drop 2 1/4" Allamon ball at 9011' md. Lost 45 bbls before closing diverter. Pressured up to 1100 psi at 9315' md and shifted diverter. Blew ball with 2190 psi. Tested diverter with 1080 psi. Blew ball through DTD with 2240 psi. Converted float with 480 psi. Lost 631 bbl after closing Allamon diverter. Picked up Black Hawk cement head and land out from 11560' to 11585' md (shoe). Landed in 16" supplemental adapter at 5227' md. Slacked off weight to 650k, tagged at 21' in. Continue to slack off shear at 265k (85k down) and slack off to 400k (25'). Shoe depth at 11585' md. Float collar depth 11428' md. Filled drill pipe at 11585' md and pumped 300 bbls 11.2-ppg SBM at 10 bbl/ min.

Rigged up chicksan lines. Halliburton broke circulation with 10 bbls of 14-ppg tuned spacer. Closed Lo Torque valve and tested lines to 7500 psi for 3 minutes. Perform cement job as per Halliburton and BP procedure at 11585' md. Halliburton pumped 160 bbl 14.4-ppg tuned spacer at 8 bbl/min with total spacer pumped 170 bbl. Black Hawk dropped bottom dart. Saw indication of green light when dart left head. Halliburton mixed and pumped 200 bbls of 16.4-ppg cement down hole, adding well life at 1 lb/bbl on down hole side of cement unit. Started pumping cement and saw spike of 1880 psi when dart passed Allamon diverter, did not see shear in DTD on bottom plug. Black hawk drop top dart with indication of green light when dart left cement head. Halliburton pumped remaining 10

bbls of cement (total of 210 bbls pumped) total of 132 bbls of 11.2-ppg mud used to displace at 10 bbl/min. At 127 bbls pumped, saw indication of dart passing through diverter sub with 2360 psi, dart passed through DTD with 2050 psi spike at 132 bbls pumped. No indication on top plug shear. Halliburton pumped 10 bbls to ensure plug launched.

Displaced with 11.2-ppg SBM using rig pumps at 10-12 bbl/min. Caught pressure with 7200 strokes (907 bbls) pumped. Observed no signs of shear on bottom plug. Top plug landed at 10422 strokes while pumping 5 bbl/min with 590 psi and landed plug with 1125 psi. Check floats and float seals. Halliburton bled back a total 8 bbls off with no flow. (Note: Total losses while running casing and during cement job: 2714 bbls) Set seal assembly with hook load slack off to 325k, 27' down, rotated 7 turns to the right with max torque: 3900, slacked off to 300k hook load 25.5' down to set seal assembly. Halliburton test lines to 6000 psi before closing middle pipe rams and performing test to 3600 psi for 5 minutes straight line. Good test. Pull and shear out of seal assembly with 80k over pull.

Rig down chocks and lines and Black Hawk cement head. Laid out at 5227' md. Pull out of hole from 5227' to 4511' md. Drop 2 nerf wiper balls and circulated drill string volume at 4511' md. Pumped 50 bbl 13.7-ppg slug at 4511' md. Pull out of hole from 4511' md to surface and laid out running tool. Rigged down 750 ton handling equipment. Rigged up 500 ton handling equipment. Held pre-job safety meeting on picking up BHA with crew. Function blind shear rams from tool pusher control panel.

14-3/4" x 16 1/2" Hole Section 9076' to 13305' md

Make up and RIH with NB No.6 a 14-3/4" Hughes QD507 with jets (7x14) Sperry MWD with Sperry PWD, Sperry BAT Sonic, Geo-Pilot and 16-1/2" Baker under-reamer to 98' md. Program MWD tools. Broke circulation down kill line with Halliburton tested lines to 4000 psi. Function tested blind shear rams from driller's control panel on BLUE pod. Test casing and blind shear rams to 250 psi / low for 5 minutes and 3600 psi / high for 30 minutes. Pumped total 20 bbls / bled back 20 bbls. Finished picking up 14-3/4" x 16-1/2" drilling assembly from riser skate and ran in hole from 90' md to 368' md. Picked up HWDP and drill collars from 368' to 1292' md. Filled BHA at 1292' md. Continued running in hole from 1292' to 4025' md. Filled pipe and shallow tested MWD tools successfully. Continued RIH from 4025' to 7484' md. Filled drill pipe at 7484' md. RIH from 7484' to 10927' md. Filled drill pipe at 10927' md. Continued tripping in hole from 10927' to 11414' md (Top of Cement). Increased mud weight from 11.2-ppg to 11.5-ppg and circulated to above BHA. Continue circulating out 11.5-ppg SBM while drilling cement. Drilled cement from 11414' to 11438' md. Note: Drilled float collar from 11428' md to 11438' md. Parameters: WOB: 5-30k, RPM: 18-40, SPP: 2520 psi. Wash and ream from 11438' to 11545' md. Parameters: WOB: 0-3k, RPM: 35, SPP: 2540 psi. Drill cement from 11545' to 11583' md. Parameters: WOB: 0-12k, RPM: 37, FLOW: 800 gpm. Circulated at 11583' md until 11.5-ppg mud weight was around. Took slow pump rates at 11583' md with 11.5-ppg mud. Drill cement and tagged 16" shoe at 11586' md. Drilled out shoe from 11586' to 11587' md.

Began losing mud. Monitored well on trip tank. Initial losses at 1 bpm, increasing to 1.4 bpm. Cut mud weight in active pit to 11.3-ppg. Pumped 173 bbls of 84 ppb LCM pill and chased with 11.3-ppg SBM. Monitored well on trip tank for losses. Total loss while monitoring trip tank was 207.2 bbls. POOH from 11587' to 11450' md. Monitored well on trip tank. Mixed 189 bbls of LCM pill and continued cutting mud weight in active system from 11.5-ppg to 11.3-ppg. Pumped 160 bbls of 11.5-ppg LCM pill and displaced with 11.3-ppg SBM. Monitored well on trip tank. Total mud lost while monitoring was 162 bbls. Initial loss was 1.4 bpm (84 bph), after 45 minutes loss slowed to 60 bph. Closed upper annular. Boost riser and cut mud weight back from 11.5-ppg to 11.3-ppg. Monitor active system for gain or loss. Lost total of 406 bbls SBM in 12 hours. Continued boosting riser cutting mud weight back from 11.5-ppg to 11.3-ppg. Put 11.3-ppg SBM in MINI trip tank. Open up & monitor losses at 24 bph (lost 2.9 bbls). Closed annulars. Continued to monitor well while cutting mud weight from in active system from 11.3-ppg to 11.1-ppg. Located hang off on upper annular. Filled MINI trip tank and trip tanks with 11.1-ppg heavy mud.. Flushed choke

line with 11.1-ppg heavy mud. Closed upper annular and opened middle pipe rams. Monitored pressures for 5 minutes. Opened annulus on kill line and monitored for 5 minutes, annulus static. Cut mud weight in riser from 11.3-ppg to 11.1-ppg heavy with upper annular closed. Opened annular. Monitored well on the trip tank, well static. Broke circulation, washed down from 11580' to 11583' md. Determined lined up on 11.1-ppg heavy SBM. With 69 bbls pumped, shut down and lined up on 11.3-ppg. Drilled 16" float shoe from 11583' to 11585' md. Washed down to 11601' md. Monitored well on the trip tank at 11575' md (Losses at 2.4 barrels per hour w/11.2-ppg heavy mud).

Held pre job safety meeting with crew on pulling out of hole. POOH from 11575' to 8127' md. Broke circulation at 10 spm. Staged pumps up to 500 gpm and circulated 11.3-ppg mud around. Flushed choke / kill lines with 11.3-ppg mud. Tripped in hole from 8127' to 9826' md at 4 minutes per stand. Broke circulation at 10 spm. Stage pumps up to 500 gpm and circulate 11.3-ppg mud around. Total mud lost in 24 hrs was 337 bbls. Held pre-job safety meeting with crew on tripping in the hole. Monitored well on the trip tank. Ran in the hole from 9826' to 11519' md monitoring pipe displacement on the trip tank. Filled drill pipe. Staged pumps up to 500 gpm. Washed from 11519' to 11615' md. Pulled up to 11519' md and circulated bottoms with 11.3 ppg mud. Max gas was 419 units (13.9%) with a low mud cut of 10.8-ppg.

Monitored active system for gains and losses. Monitored well on the trip tank, losing mud at 30 barrels per hour. Pumped and spotted 180 bbls of 84 lbs/bbl LCM pill. Monitored well on the trip tank, losing mud at 30 barrels per hour. Pulled out of the hole from 11615' to 11475' md. Monitored well on the trip tank. Monitored well on the trip tank, losing at 24 barrels per hour. Pulled out of the hole from 11475' to 10605' md. Monitored pipe displacement on the trip tank. Total mud lost in 12 hours was 244 bbls. Monitored well on trip tank at 10605' md, losing at 12 bph. Pumped 40 bbls of 13.7-ppg slug. POOH from 10605' to 8859' md at 5 minutes per stand. Locate on upper annular at 8859' md with 6-5/8" drill pipe. Function test subsea BOPs from toolpushers control panel on YELLOW pod. Function tested diverter. Continued pulling out of hole from 8859' to 5000' md at 5 minutes per stand. Flow checked well at 6475' md prior to pulling BHA across stack. Pulled insert from wear sleeve with 17k overpull. Continued POOH from 5000' to 1292' md. Pull out of hole with HWDP and drill collars racking back in derrick from 1292' to 368' md. Laid down 14-3/4" x 16-1/2" drilling assembly from 368' md to surface. Cleared and cleaned the rig floor. Functioned blind shear rams on YELLOW pod from toolpusher's control panel. Monitored well on trip tank, losing mud at a rate of 6 bph. Serviced block and TDS. Monitored well on trip tank, losing mud at 6 bph.

Rig up 3-1/2" tubing handling equipment. Monitor well on trip tank, losing mud at 6 bph. Run in hole picking up tubing from skate in doubles from surface to 1617' md. Rig down 3-1/2" handling tools. Monitor well on trip tank, losing mud at 6 bph. Continue to run in hole with 3-1/2" tubing on drill pipe from 1617' to 2305' md. Trouble shoot FWD fingerboard. Monitor well on trip tank, losing mud 2 bph. Continue RIH with 3-1/2" tubing from 2305' to 11620' md monitoring pipe displacement on the trip tank, losing mud at 12 bph. Picked up cement kelly. Dropped and pumped Halliburton CST down at 11620' md. Picked back up to 11615' md. Rigged up chicksan lines. Monitored well on the trip tank. Losing mud at 12 bph. Halliburton broke circulation with 10 bbls of 13.5-ppg tuned spacer and tested lines to 5000 psi, good test. Halliburton pumped 60 bbls of 13.5-ppg tuned spacer for total of 70 bbls ahead of cement. Halliburton mixed and pumped 195 bbls of 16.4-ppg "premium" cement before pumping 2.5 bbls of 13.5-ppg tuned spacer behind cement. Halliburton displaced cement with 284 bbls of 11.3-ppg SBM at 10 bpm. Cement in place at 11615' md. Total of 61 bbls mud lost during displacement.

Rigged down chicksan lines and laid out cement kelly. POOH from 11615' to 10379' md filling trip tank with 9.0-ppg SBM (Total of 19.6 bbls used while POOH). Dropped 2 nerf balls and circulated 1 string volume at 63 spm, 830 psi. Rigged up chicksan lines. Halliburton broke circulation and test lines to 3,000 psi. Closed lower annular and began squeeze operations.

Halliburton pumped as follows:

| VOLUME: | RATE: | PSI: |
|---------|-------|---------|
| 5 bbls | 2 bpm | 374 psi |
| 5 bbls | 3 bpm | 515 psi |
| 5 bbls | 4 bpm | 640 psi |
| 20 bbls | 5 bpm | 930 psi |
| 5 bbls | 3 bpm | 815 psi |
| 5 bbls | 2 bpm | 700 psi |
| 5 bbls | 1 bpm | 510 psi |

Stopped pumping. ISIP 436 psi, after 15 minutes 283 psi. Total of 50 bbls squeezed.

Monitored pressure at 15 minute intervals as follows:

| Time Interval: | PSI: |
|----------------|---------|
| 15 minutes | 271 psi |
| 30 minutes | 259 psi |
| 45 minutes | 253 psi |
| 60 minutes | 251 psi |
| 75 minutes | 255 psi |
| 90 minutes | 257 psi |
| 105 minutes | 250 psi |

| | |
|-------------|---------|
| 120 minutes | 263 psi |
| 135 minutes | 266 psi |
| 150 minutes | 267 psi |

Bled off pressure, bleeding back 2 bbls. Monitor trip tank for gains or losses. Opened annular and monitor well on trip tank, well static. Rigged down chicksan lines and laid out test kelly. Pump 40 bbls of 13.7-ppg slug at 50 spm. POOH from 10379' to 1617' md. Monitor well on trip tank and Held pre job safety meeting with crew on rigging up handling tools for 3-1/2" tubing. Continue pulling out of hole laying down 3-1/2" tubing. Rig down handling tools.

Picked up and RIH with RRB No.6.1 a 14-3/4" Hughes QD507 with jets (7x14) Sperry MWD with Sperry PWD, Sperry BAT Sonic, Geo-Pilot and 16-1/2" Baker under-reamer to 97' md. Programmed MWD tools. Continued running in hole with BHA, HWDP and drill collars from 97' to 1246' md. Ran in hole on 6-5/8" drill pipe from 1246' to 4685' md. Filled drill pipe and successfully tested MWD tools at 4685' md. Slipped 100' of drill line, re-calibrated block and verified both crown and floor saver. Continued tripping in hole with 14-3/4" x 16-1/2" drilling assembly from 4685' to 8127' md where the drill pipe was filled. Ran in hole from 8127' to 10605' md, filled drill pipe. Washed and reamed from 10605' to 11145' md. Note: Encountered cement stringers from 10942' to 11145' md. Reaming parameters as follows: WOB: 0-1k, RPM: 40, FLOW: 800 gpm, SPP: 2550 psi. Drilled firm cement from 11145' to 11595' md with the following drilling parameters: WOB: 8-20k, RPM: 40, TORQUE: 10-18k ft/lbs, FLOW: 950 gpm, P/U 480k, S/O: 469k ROT: 479. Circulated cuttings above BHA. Made up Halliburton to top drive and tested lines to 1500 psi.

Performed Non-MMS MINI FIT procedure. Pumped 6 bbls of 11.3-ppg mud. Maxium pressure was 732 psi with an ISIP of 706 psi, finishing with 668 psi (12.5-ppg EWM) after 5 minutes. Bled back 6 bbls of mud. Circulated and increased mud weight from 11.3-ppg to 11.5-ppg at 11595' md. Drilled cement from 11595' to 11614' md. Washed down from 11614' to 11634' md. Circulated cuttings above BHA and took static density of 11.71-ppg with Sperry PWD. Pulled out of hole from 11634' to 11580' md. Rigged up Halliburton before testing lines to 1500 psi. Closed upper annular and performed FIT as follows: Pumped 7.5 bbls of 11.5-ppg SBM. Max pressure was 631 psi (12.55-ppg EMW) with an ISIP of 592 psi, finishing with 557 psi after 10 minutes. Pumped up ESD of 12.67-ppg EMW with Sperry PWD immediately following test.

Washed down from 11580' to 11634' md. Circulated bottoms up with maximum gas of 2878 units (96%) and low mud cut of 10.9-ppg from 11.5-ppg. Washed and reamed from 11634' to 11895' md with the following parameters: WOB: 0-5k, TORQUE: 3-7k ft/lbs, FLOW: 942 gpm, SPP: 3590 psi. Note: Pack-off occurred at the following depths: 11813' md, 11832' md and 11882' md. Circulated bottoms up at 11895' md. Max gas was 3000 units (100%) with a low mud cut of 10.8-ppg from 11.5-ppg. Continued washing and reaming from 11895' to 12107' md. Circulated bottoms up at 12107' md to lower ECD (12.39-ppg). Max gas was 2836 units (95%) from connection made at 11969' md. Lowest mud cut observed was 11.1-ppg from 11.5-ppg. Pumped 105 bbl HI-VIS sweep at 12050' md. Started taking weight at 12075' md. Washed down to 12107' md before continuing to wash

down to 12118' md. Observed pack-off and stuck pipe at 12118' md. Racked back 1 stand and picked up single. Fired jars 4 times and worked pipe free. Washed and back reamed from 12118' to 12043' md. Staged pumps up to 90 spm and increased mud weight from 11.5-ppg to 11.7-ppg. Continued washing and reaming from 12043' to 12350' md with the following parameters: WOB: 0-1k, RPM: 30, FLOW: 950 gpm, SPP: 3680 psi with 11.7-ppg mud. Pumped 100 bbl sweep and increased mud weight from 11.7-ppg to 11.8-ppg. Max gas while circulating 11.8-ppg around was 1437 units (47.9%) with a low mud cut of 11.5-ppg.

Pumped out of hole from 12350' to 11731' md. Dropped 1-3/4" Baker Hughes XPR reamer activation ball and pumped down at 35 spm. Seated ball and sheared pins with 430 psi (35 psi over circulating pressure). Pull tested reamer against bottom of cement at 11614' md with 6k over pull to verify reamer was in opened position. Washed and reamed from 11731' to 12350' md monitoring active system for gains or losses.

Drilled 14-3/4" x 16-1/2" hole section from 12350' to 12575' md with drill parameters: WOB: 6-13k, RPM: 135, ROP: 56 ft/hr, TORQUE: 9-11k ft/lbs, FLOW: 950 gpm, SPP: 3410 psi. Drilled from 12575' to 12852' md with the following parameters: WOB: 3-4k, RPM: 135, ROP: 92 ft/hr, TORQUE: 10-11k ft/lbs, FLOW: 950 gpm, SPP: 3410 psi. Note: Pumped 80 bbl HI-VIS pill at 12650' md and increased mud weight from 11.8-ppg to 11.9-ppg. Control drilled due to ECD (12.4-ppg) at 12807' md. Circulated and conditioned hole to lower ECD (12.41-ppg) at 12,852' md. Pumped 100 HI-VIS pill.

Drilled 14-3/4" x 16-1/2" hole from 12852' to 13305' md with the following drilling parameters: WOB: 3-4k, RPM: 135, ROP: 103 ft/hr, TORQUE: 10-12k ft/lbs, FLOW: 950 gpm, SPP: 3410 psi. Observed increase in flow returns and gain in active pit volume. ECD decreased from 12.4-ppg to 12.32-ppg. Picked up off bottom and checked well for flow. Well was deemed to be flowing. Shut well in on the lower annular. Note: Estimated gain in pits of 35 bbls. Monitored the pressures and recorded data. Attempted to open the float inside the drill pipe to establish drill pipe pressure by bringing up the mud pump at 2 strokes per minute. Drill pipe pressure (480-500 psi), Casing pressure (380 psi). No communication established (Packed off). Attempted to work pipe free and fired jars. Pulled pipe 5' before taking over pull again. Unable to communicate between drill pipe and annulas.

Continued monitoring and recording pressures as follows:

| DATE: | TIME: | SICP: | SIDPP: |
|------------|-----------|---------|---------|
| 03/09/2010 | 00:00 hrs | 370 psi | 380 psi |

| | | | |
|------------|-----------|---------|---------|
| 03/09/2010 | 06:00 hrs | 480 psi | 310 psi |
| 03/09/2010 | 12:00 hrs | 520 psi | 260 psi |
| 03/09/2010 | 16:30 hrs | 460 psi | 310 psi |

Bled off SIDPP from 310 psi to zero (Bled back 3.8 bbls to trip tank). Monitor drill pipe pressures for 10 minutes before breaking out top single and installing safety valve (3.71" drift). Make single back up and pressure up on drill pipe to 310 psi pumping at 3 spm (pumped 36 strokes).

Continued monitoring and recording pressures as follows:

| DATE: | TIME: | SICP: | SIDPP: |
|------------|-----------|---------|---------|
| 03/09/2010 | 18:00 hrs | 440 psi | 230 psi |
| 03/09/2010 | 23:59 hrs | 440 psi | 180 psi |
| 03/10/2010 | 00:00 hrs | 430 psi | 180 psi |
| 03/10/2010 | 06:00 hrs | 440 psi | 150 psi |
| 03/10/2010 | 12:00 hrs | 440 psi | 160 psi |
| 03/10/2010 | 18:00 hrs | 420 psi | 150 psi |
| 03/10/2010 | 22:30 hrs | 420 psi | 150 psi |

Bled down SIDPP from 150 psi to zero and monitored for five minutes to check if floats were holding. Laid down single on top of TIW safety valve and picked up Smith / Schlumberger wireline lubricator. Held pre-job safety meeting with crews on rigging up to RIH with Schlumberger tools.

Removed cap from wireline lubricator. Picked up Schlumberger tools and made up 2.80" gauge ring and stabbed into lubricator. Made up grease head before rigging up chicksan lines and testing lubricator to 1500 psi with Halliburton. Ran in hole with 2.80" gauge ring on wireline to 12964' WLM. Tagged up on X-over between HWD and 8-1/4" drill collars. POOH with gauge ring from 12964' WLM to surface, laid out same. Picked up and ran in hole with Schlumberger Bond logging assembly from surface to 12180' WLM. While calibrating Schlumberger Bond tools, it was observed that tools could travel down but could not be pulled back up. Pressured up drill pipe to 500 psi with Halliburton while Schlumberger attempted to pull assembly, could not work free. Bled off pressure on drill pipe and pulled 70k over to fire jars.

Maintained 50k over pull (tension) on the drill pipe while Schlumber attempted to pull wireline free. Monitored well while waiting on procedure for pulling stuck wireline tool. Rigged up to pull out of wireline socket. Schlumberger pulled line tension in 500 lb increments from 7000 lbs to 9700 lbs. Held tension for 3 minutes on each pull. Could not pull free at weak point. Obtained permission from Schlumberger to pull up to 10700 lbs. Pulled to 10200 lbs (5900 lbs over pull) Wireline pulled out at rope socket (Bottom of fish at 12222' WLM, Top of fish at 12190' WLM). POOH with wireline from 12190' WLM to 200' WLM. Pulled last 200' out by hand. Rigged down Schlumberger wireline.

Rigged up Smith wireline sheave at the crown. Picked up 4" gauge ring, made up grease head and tested lubricator with Halliburton to 1500 psi. Ran in hole with Smith's 4" gauge ring from surface to 12170' WLM monitoring

wireline displacement on trip tank. POOH with 4" gauge ring from 12170' WLM to surface. Laid down gauge ring tools before picking up Smith's 3.71" MAGNA RANGE plug tools. RIH with 3.71" MAGNA RANGE plug from surface to 12150' WLM, set same. Halliburton tested plug to 1500 psi for 15 minutes. POOH with plug running tool from 12150' WLM to surface, lay down same. Make up and start RIH with Smith severing gun from surface to 12100' WLM. Pick up on drill pipe and pulled 60k over pull to fire jars. Held 50k over (tension) on drill pipe with hook load of 560k while RIH. Closed middle pipe rams and bled off casing pressure. Opened upper kill valves and pumped down kill line taking returns up choke line. Shut down circulating and applied 330 psi on choke line. Opened up middle pipe rams. Smith tied in severing gun at 12100' WLM. Halliburton pressured up down drill pipe with 450 psi, fired severing gun. Hook load weight decreased from 560k to 460k indicating pipe was severed. Drill pipe pressure dropped to 360 psi, casing pressure remained unchanged at 330 psi. POOH with severing tool from 12100' WLM to surface. Closed FOSV and bled pressure off 147 psi with Halliburton. Rigged down Smith's wireline equipment and laid down wireline lubricator.

Monitored and recorded pressures as follows:

| DATE: | TIME: | SICP: | SIDPP: |
|------------|-----------|---------|---------|
| 03/12/2010 | 12:00 hrs | 340 psi | 260 psi |
| 03/12/2010 | 12:30 hrs | 330 psi | N/A psi |
| 03/12/2010 | 13:00 hrs | 330 psi | N/A psi |
| 03/12/2010 | 13:30 hrs | 330 psi | N/A psi |
| 03/12/2010 | 14:00 hrs | 330 psi | N/A psi |
| 03/12/2010 | 14:30 hrs | 340 psi | N/A psi |
| 03/12/2010 | 15:00 hrs | 340 psi | N/A psi |
| 03/12/2010 | 15:30 hrs | 300 psi | 110 psi |

Note: Picked up single, equalized drill pipe pressure at 15:30.

Circulate out influx using 11.9-ppg SBM at 3 bpm (126 gpm, 24 spm). Max gas was 1499 units (49.96%) with a low mud cut of 11.7-ppg from 11.9-ppg. Circulated 2000 strokes past bottoms up, gas would not drop below 900-1000 units. Shut well in and monitored pressures for 10 minutes (SICP: 440 psi, SIDPP: 380 psi). Bled back 4 bbls to MINI trip tank before shutting back in and monitoring pressures for ten minutes (SICP: 250 psi, SIDPP: 240). Bled back 3 bbls to MINI trip tank before shutting back in and monitoring pressures for ten minutes (SICP: 180 psi, SIDPP: 220 psi). Bled off 1.5 bbls to MINI trip tank, shut back in and monitored for ten minutes (SICP: 170 psi, SIDPP: 180 psi). Bled off 2 bbls to MINI trip tank. Bled back a total of 10.5 bbls to MINI trip tank.

Shut well back in and monitored pressures as follows:

| DATE: | TIME: | SICP: | SIDPP: |
|------------|-----------|---------|---------|
| 03/13/2010 | 04:00 hrs | 150 psi | 130 psi |
| 03/13/2010 | 04:15 hrs | 180 psi | 120 psi |
| 03/13/2010 | 04:45 hrs | 210 psi | 130 psi |
| 03/13/2010 | 05:00 hrs | 220 psi | 160 psi |

Decision made to increase mud weight to 12.1-ppg. Circulated 12.1-ppg down drill pipe and back up choke and kill lines at 3 bpm (130 gpm, 24 spm). Maximum gas was 1395 units (46.5%) with a low mud cut of 11.6-ppg.

Shut well in and monitored pressures as follows:

| DATE: | TIME: | SICP: | SIDPP: |
|------------|-----------|---------|---------|
| 03/13/2010 | 16:00 hrs | 150 psi | 110 psi |
| 03/13/2010 | 16:15 hrs | 150 psi | 110 psi |
| 03/13/2010 | 16:30 hrs | 150 psi | 100 psi |
| 03/13/2010 | 16:45 hrs | 150 psi | 100 psi |
| 03/13/2010 | 17:00 hrs | 150 psi | 100 psi |
| 03/13/2010 | 17:15 hrs | 150 psi | 100 psi |
| 03/13/2010 | 17:30 hrs | 130 psi | 120 psi |

Decision made to increase mud weight to 12.3-ppg. Circulated 12.3-ppg down drill pipe and back up choke and kill lines at 3 bpm (130 gpm, 24 spm). Maximum gas was 1321 units (44%) with a low mud cut of 11.6-ppg. Gas dropped to 670 units (22.3%). Continued circulating 12.3-ppg mud with both chokes open (DPP: 270 psi, Casing pressure: 0). Mud weight at possum belly was 11.9-ppg with 12.2-ppg behind the degaser. Held pre-job meeting with crews on sweeping the BOPs. Swept the stack and choke / kill lines by closing the middle pipe rams and pumping 12.3-ppg down kill line taking returns up choke line.

Pumped 100 bbls of base oil down choke line taking returns up kill line. Differential pressure was 1430 psi. Bled off differential pressure, opened lower annular and U-Tubed base oil from choke line taking returns to POOR BOY degaser. Note: U-Tubed back 53 bbls before lining up pumps and displacing remaining base oil out of choke line.

Displaced riser to 12.3-ppg SBM while monitoring BOP pressures. BOP pressures were as follows:

| DATE: | TIME: | BOP psi |
|------------|-----------|----------|
| 03/14/2010 | 12:00 hrs | 2460 psi |
| 03/14/2010 | 12:30 hrs | 2460 psi |
| 03/14/2010 | 13:30 hrs | 2470 psi |
| 03/14/2010 | 13:30 hrs | 2470 psi |

Opened well and monitored on trip tank, static. Circulated bottoms up from 12100' md at 800 gpm. Max gas was 1532 units with a low mud cut of 11.7-ppg from 12.3-ppg. Monitored well on trip tank for 30 minutes with static results. Circulated bottoms up a second time at 800 gpm with a max gas of 629 units and a low mud cut of 12.0-ppg from 12.3-ppg. Held pre-job meeting with crews on pumping cement. Performed 5 minute flow check before laying down 2 joints of 6-5/8" drill pipe, static. Picked up cement kelly, rigged up chicksan lines and pumped 10 bbls of 14.5-ppg tuned spacer. Tested lines with Halliburton to 5000 psi. Continued pumping an additional 160 bbls of 14.5-ppg tuned spacer for a total of 170 bbls pumped ahead of cement. Halliburton mixed and pumped 200 bbls of 16.4-ppg followed by 28 bbls of 14.5-ppg spacer. Halliburton displaced cement with 292 bbls of 12.3-ppg SBM. Note: Estimated cement from 12100' to 11586' md. Rigged down cement kelly and POOH from 12100 to 11850' md. Dropped ncrf ball and circulated bottoms up with rig pumps. Max gas was 1580 units with low mud cut of 12.0-ppg from 12.3-ppg. Cement and spacer coming over shakers at bottoms up. Note: Gas dropped down to a back ground of +/- 117 units after bottoms up.

Started testing choke manifold while CBU. Tested to 250 psi / low, 6500 psi / high. Tested buffer valves to 250 psi / low and 5000 psi / high for five minute straight line or until green light on on Halliburton's anatomized digital test program. Tripped in hole from 11831' to 11878' md to check firmness of cement. At 11868' md, tagged soft cement. Continued tripping to 11878' md with cement still not hard. Pull back up to 11831' md and circulate while waiting on cement. Ran in hole to tag cement. At 11855' md, began seeing indications of taking weight. Put 15k down at 11863' md. POOH from 11850' to 11529' md. Picked up test kelly, located on upper annular and rigged up chicksan lines. Halliburton tested BOPs on 6-5/8" drill pipe as per BP and MMS requirements from driller's control panel on BLUE pod. Tested lower annular and all associated valves to 250 psi / low and 3500 psi / high for five minute straight line on each test. Tested upper annular, kelly hose and all associated valves to 250 psi / low for five minute straight line and to 5000 psi / high until green light was reached on Halliburton's anatomized digital BOP test program. Tested all pipe rams and associated valves to 250 psi / low for five minute straight line test and 6500 psi / high until green light on Halliburton's anatomized digital BOP test program was reached. Note: Near end of last BOP test, weight indicator fell from 443k to 321k and drill pipe slid a total of 4 feet with test ram closed and upper pipe ram closed with 7000 psi test pressure between rams. Function tested BOPs and diverter from toolpusher's control panel on YELLOW pod. Rigged down chicksan lines and laid down test Kelly and pumped 70 bbls of 14.5-ppg slug before pulling out of hole from 11529' to 92' md. Laid down 2 good joints of HWDP, 1 severed joint. Cleaned and cleared rig floor.

Rigged up 3-1/2" tubing handling tools. Trip in hole with 3-1/2" tubing from surface to 1026' md and continue running in hole with tubing on 6-5/8" drill pipe from 1026' to 11893' md where cement was tagged. Picked up cement kelly and circulated bottoms up. Held pre-job meeting with crews on performing cement job. Rigged up chicksan lines and started pumping 10 bbls of 13.2-ppg tuned spacer with Halliburton. Tested lines to 5000 psi before continuing to pump 160 bbls of remaining 13.2 ppg tuned spacer with surfactant for a total of 170 bbls. Mixed and pumped 260 bbls of 16.4-ppg "premium" Cement, pumped 6 bbls of 13.2-ppg tuned spacer behind cement. Halliburton displaced cement with 299 bbls of 12.3-ppg SBM. No mud losses were recorded on cement job. Rigged down chicksan lines. POOH from 11893' to 11150' md. Circulated bottoms up before pumping 70 bbls of 14.5-ppg slug. POOH and laid down 3-1/2" tubing. Rigged down tubing equipment. Held pre-job meeting with crews on picking up BHA in preparation of kick-off bypass 01.

This concludes the drilling summary for the Macondo No.1 ST00BP00 well.

Operations Summary (Macondo Bypass) MC252 No.1 ST00BP01

14-3/4" x 16 1/2" Hole Section 11700' – 13150' md

Make up and RIH with NB No.7 a 14-3/4" Hughes QD507 with jets (7x14) Sperry MWD with Sperry PWD, Sperry BAT Sonic, Geo-Pilot and 16-1/2" Baker under-reamer to 105' md. Program MWD tools. Finished picking up BHA from 105' to 318' md then ran in hole with drill collars and HWDP to 1243' md. Continued tripping in hole to 4132' md where the drill pipe was filled and MWD was shallow tested successfully. Tripped in hole from 4132' to 7435' md. The drill pipe was filled before tripping in from 7435' to 11303' md. Filled drill pipe. Started seeing 4-5k drag with no pumps on from 11303' to 11364' md. Picked back up to 11300' md and washed down to 11460' md. Noted 5k drag at 11460' md with pumps on. Washed from 11460' to 11508' md. Observed 4-10k drag that would wash off. Washed from 11508' to 11554' md with 0-1k WOB. At 11554' md, cement held 10k with no rotary and did not wash off. Decision made to decrease mud weight from 12.3-ppg to 12.1-ppg while waiting on cement to firm up.

Washed and reamed from 11554' to 11600' md where the hard cement was tagged. Note: Plug did not wash off with 30k down without rotary and with pumps on at 740 gpm. Dressed off plug from 11600' to 11615' md. Drill firm cement from 11615' to 11700' attempting to sidetrack. Drilling parameters were as follows: (11615' to 11648')WOB: 0-2k, RPM: 80, ROP: 20 fph, FLOW: 740 gpm, SPP: 2200 psi, with a tool deflection of 80%. (11648' to 11663') WOB: 2-10, RPM: 30, ROP: 20-40 fph, flow: 740 gpm, SPP: 2200 psi, tool deflection of 80%. (11663' to 11675') WOB: 10k, RPM: 20, ROP: 40 fph, FLOW: 740 gpm, SPP: 2200 psi with tool deflection of 100%. (11675' to 11687') WOB: 10k, RPM: 20 ROP: 40 fph, FLOW: 740 gpm, SPP: 2200 psi with tool deflection at 100%. At 11687, reduced tool deflection to 50%. Well sidetracked at 11700' md. Note: At 11668' md, evaluated cuttings sample was (CEMENT) with a trace of % of Shale Drilled sidetracked hole from 11700' to 11838' md. Note: At 11720' md, evaluated cuttings were 75% Cement, 25 % Shale. At 11750' md, evaluated cuttings were 20% cement and 80% Shale. Backreamed the hole section from 11838' to 11695' md. Dropped 1-3/4" Baker steel reamer activation ball. Positioned the reamer at 11710' md. Cut 5 feet of hole with under-reamer (11710' to 11715' md reamer depth). Confirmed reamer was open by pulling 10k overpull against formation.

Drilled 14-3/4" x 16-1/2" hole section from 11838' to 12205' md with the following drilling parameters: WOB: 3-6k, RPM: 125, ROP: 80 fph, TORQUE: 7-9k ft/lbs, FLOW: 900 gpm, SPP: 2500 psi, P/U: 508k, S/O: 491, ROT: 496, ECD 12.42-ppg (12.1-ppg SBM) ESD: 12.3-ppg. Continued drilling from 12205' to 12893' with the drilling parameters as follows: WOB: 2-3k, RPM: 125, ROP: 80 fph, TORQUE: 8-10k ft/lbs, FLOW: 900 gpm, SPP: 3000 psi, P/U: 525k, S/O: 505k, ROT: 516k. Note: Increased mud weight from 12.1-ppg to 12.2-ppg at 12654' md. Increased the weight from 12.2-ppg to 12.3-ppg at 12793' md. ECD was 12.64-ppg (12.53-ppg ESD) with 12.3-ppg around. Drilled 14-3/4" x 16-1/2" hole section from 12893' to 13150' md with the following drilling parameters: WOB: 2-10k, RPM: 125, ROP: 51 fph, TORQUE: 9-12k ft/lbs, FLOW: 900 gpm, SPP: 3000 psi, ECD 12.64-ppg with 12.3-ppg mud weight (12.53-ppg ESD). Gas: 30-40 units with a max gas of 161 units.

Circulated bottoms up, checked well for flow (static) and pump 200 bbls HI-VIS sweep. Increased mud weight to 12.4-ppg and circulated out. ECD after 12.4-ppg was out was 12.72-ppg. Flow checked well, static. Pumped up static density of 12.65-ppg with Sperry PWD. Pumped out of hole from 13150' to 11826' md. POOH without pumping to 11054' md. Note: Worked pipe twice through kick-off point to ensure stability. Flow checked well for 10 minutes inside 16" casing at 11054' md, static. Pumped 80 bbls of 14.5-ppg slug before pulling out of hole from 11054' to 1243' md. Racked back HWDP and drill collars from 1243' to 318' md. Continued POOH laying down BHA from 318' to surface. Cleaned and cleared rig floor.

13-5/8" Casing

Continue to rig up casing handling equipment. hold pre-job meeting with crew on picking up and running 13-5/8" liner from forward conveyor. Pickup 13-5/8", Q125, 88.2 ppf, Hydril 523 liner . P/U centralized shoe jt, 3 centralizer jts, centralized float collar jt and 39 jts casing. Run in hole from surface to 1939' md. Pump 40 bbls of clean mud in liner. Rig down Weatherford casing elevators, 750 ton bails and install 500 ton bails and 6-5/8" drill pipe elevator

Drop Weatherford 3-1/2" float conversion ball. Picked up Weatherford liner hanger from 1939' to 1991.64' md and ran in hole (Casing. weight 132k). Rig down Weatherford slips and install rig master bushing and clear rig floor of casing equipment while filling liner with water. Tripped in with 13-5/8" liner on 6-5/8" 32# landing string from 1991' to 4035' md. Ran 4 stands before picking up Allamon DTD sub on single. Ran 3 stands then pickup Allamon diverter sub and held pre job safety meeting with crew on running in hole with 13-5/8" casing. Continue to trip in hole from 4035' to 13117' md on landing string at 5 minutes a stand (Note: Dropped Allamon brass 1-7/8" diverter activation ball at 11,605' md) - Monitor pipe displacement on trip tank . (Note: no mud losses while running casing - ran 5 min. Per stand inside 16" liner)

Picked up Black Hawk cement kelly and rigged up chicksan lines. Tagged bottom at 13150' md, picked up to 13143' md. With rig pumps, pressure up on Allamon diverter ball to 800 psi to close diverter sub. Pressured up to 2100 psi to shear the ball seat. Let ball fall to DTD sub. Pressure test diverter to 1000 psi and hold for 2 minutes. Shear ball. Ball went through DTB sub with 2300 psi. Break circulation and circulate 77 bbls (611 stks) at 4 bbls/min. Did not see indication of floats converting. Continue circulating for a total 635 bbls (5042 stks), staging pumps up in 2 bbl/min increments. Max pump rate of 8 bbls/min. Dropped 2-1/8" liner setting ball, pumping down at 2 bbls/min (15 spm) for 20 minutes. Pressure up to 1000 psi and hold for 1 minute to insure ball was seated in diverter. Sheared ball through diverter with 2100 psi, wait 1 minute before pressuring up to 1000 psi to insure ball is seated in DTD sub. Shear ball through DTD sub with 2150 psi. Allow ball to fall and seat. Pressure up to 2200 psi and set hanger. Liner set 5' off bottom. Slack off 156k, make 6 turns to right, release torque, make 8 more turns to right. Picked up to insure release from running tool. Slack back down and apply 35k down. Pressured up to shear ball through seat with 3000 psi. Break circulation at 2.5 bbls/min. (Top of liner= 11153' md, Top of float collar= 12960' md, 13-5/8" shoe= 13145' md.)

Halliburton broke circulation with 10 bbls of 14.5-ppg tuned spacer. Test lines to 5000 psi, good test. Halliburton pumped 115 bbls of 14.5-ppg tuned spacer, making a total of 125 bbls ahead of cement. Halliburton mixed and pump 120.5 bbls (639 sks) of 16.4-ppg premium cement. Continue cementing liner. Halliburton displaced with 336 bbl of mud, after 292 bbls, dart went through ATC diverter 1150 (2900 psi), 306 bbls dart went through DTD (3200 psi), dart landed in plug 322 bbls (2400 psi). Swapped over to rig pumps and continued with displacement. Rig pumped 251 bbls, plug landed out put 500 psi over circulating rate (1150 psi). Checked floats. Halliburton bled back 2-3/4 bbls. Total mud loss during the displacement 76 bbls. Set liner packer, picked up 12" to release packer actuator sub from PBR. Slacked off to actuate packer and put total of 100k down. At 40k down packer sheared, at 50k down hold down slips sheared. Halliburton broke circulation down kill line, testing lines to 2500 psi, good test. Closed upper annular and tested liner packer to 1500 psi for 5 minutes. Monitor riser on trip tank.

Rigged down chicksans and laid out cement kelly. Dropped wiper ball and circulated 2 drill string volumes. Flow checked well. Pumped 70 bbls of 14.5-ppg slug. Pull out of hole with landing string from 11153' to 84' md. Lay out Allamon diverter sub.

Note: losses while running & cementing 13-5/8" casing.

Lost while making up casing = 0 bbls
Lost while tih on landing string = 0 bbls
Lost while circulating = 0 bbls
Lost while cementing = 76 bbls
Left behind pipe = 145 bbl

Lay out Weatherford liner running tool from 84' md to surface. Note: Saw mark on RSM packoff where took 10k pull around bottom of BOP while POOH.) Clean rig floor and perform maintenance as per BP and Transocean agreement.

12-1/4" x 14 1/2" Hole Section 13150' – 15113' md

Make up and RIH with NB No.8 a 12-1/4" Hughes QD507 with jets (7x12) Sperry MWD with Sperry PWD, Sperry BAT Sonic, Geo-Pilot and 14-1/2" Baker under reamer from surface to 101' md. Program MWD tools. Note: While programming MWD tools, tested casing and blind shear rams to 250 psi for 5 minutes and 2400 psi for 30 minutes. Initial shut in pressure 2415 psi, after 30 minutes 2370 psi. Pumped 14 bbls, bled back 14 bbls. Note: Function tested blind shear rams on BLUE pod from driller's console. Continued picking up drilling assembly from 101' to 1242' md. Filled BHA at 1242' md. Ran in hole from 1242' to 3994' md. Filled drill pipe and shallow tested MWD tools successfully. Continued to run in the hole from 3994' to 7435' md. Filled drill pipe at 7435' md. Trip in hole from 7435' to 12709' md. Note: Function tested BOPs on BLUE pod from driller's control panel. Function diverter from driller's control panel on BLUE pod. Continued tripping in hole from 12709' md to 12954' md where cement was tagged. Filled pipe.

Drilled float collar and cement from 12954' to 13100' md and raised mud weight from 12.4-ppg to 12.5-ppg while drilling cement. Drilling parameters as follows: WOB: 5-20k, RPM: 30-40, ROP: 30-60 fph, TORQUE: 8-22k, FLOW: 650 gpm, SPP: 2250 psi, P/U: 516k, S/O: 500k. Took slow pump rates and choke line friction pressures. Performed D-5 well control drill as per BP and MMS. Drill cement from 13100' to 13150' md. (Shoe at 13145' md) Drilled the cement in rat hole from 13145' to 13150' md. Parameters as follows: WOB: 15-20k, RPM: 30-40, TORQUE: 5-15k ft/lbs, FLOW: 650 gpm, SPP: 2220 psi. Drilled 10 feet of new formation from 13150' to 13160' md. Circulated bottoms up to the wellhead and pumped up static density of 12.72-ppg with Sperry PWD using 12.5-ppg mud at 13140' md bit depth. POOH from 13140' to 13121' md. Picked up test kelly and rigged up chickens lines.

Halliburton broke circulation down drill pipe and kill lines testing lines successfully to 2000 psi. Performed leak off test. (Max pressure= 1480 psi. Equivalent mud weight= 14.6-ppg) pumped 9 1/2 bbls. Bled back 9 1/4 bbls. Pumped up static density of 14.71-ppg with Sperry PWD immediately following test. Rigged down chickens lines and laid down test kelly. Ran in hole from 13121' to 13160' md. Circulated at 13160' md and raised mud weight from 12.5-ppg to 12.8-ppg. Took SPRs before drilling ahead 12-1/2" hole from 13160' md to 13276' md. Drilling parameters as follows: WOB: 8-10k, RPM: 100, ROP: 70 fph, TORQUE: 10-11k ft/lbs, P/U: 532k, S/O: 505k. Pull out of hole from 13276' to 13266' md and dropped Baker Hughes 1-3/4" reamer activation ball. No pressure spike observed. Pump pressure increased slightly by 100 psi. Verified reamer was open with 15k overpull at shoe. Ream back down to 13276' md. Drill 12-1/4" x 14 1/2" hole section from 13276' to 13489' md. Drilling parameters as follows: WOB: 8 - 10k, RPM: 100, ROP: 60-80 fph, TORQUE: 10-11k ft/lbs, FLOW: 740 gpm, SPP: 2722 psi, P/U: 532k, S/O: 505k, ROT: 513k. GAS: 35 units (1.16%)

Drill 12-1/4" x 14-1/2" hole section from 13489' to 14232' md. (Note: At 13554' md increased the mud weight to 13.0- ppg, at 13930' md, weighted up to 13.2-ppg due to pore pressure increase) Drilled 12-1/4" x 14-1/2" hole section from 14232' to 14443' md. Made connection at 14443' md circulated gas out of hole from a sand. Note: Back ground gas 64 units (2.1 %) max gas 90 units (3%). Continued to drill 12-1/4" x 14-1/2" hole section from 14443' to 14754' md. (Raised mud from 13.2-ppg to 13.3-ppg at 14,581' md.) Drilling parameters as follows: WOB: 3-5k, RPM: 100, ROP: 70 fph, TORQUE: 10-12k ft/lbs, FLOW: 740 gpm, SPP: 2840 psi, pump pressure 2840 psi, P/U: 563k, S/O: 535k, ROT: 545k. At 14581' md ESD= 13.41-ppg and at 14716' md ESD was 13.57-ppg. At 14754' md, ECD increased to 13.77-ppg. Circulated and reduced ECD to 13.72-ppg. Monitor active system for gains or losses.

Continued to drill 12-1/4" x 14-1/2" hole section from 14754' to 14859' md. Drilling parameters as follows: WOB: 3- 5k, RPM: 100, ROP: 65 fph, Torque: 10-12k ft/lbs, FLOW: 740 gpm, SPP: 2840 psi, P/U: 563k, S/O 535k, ROT: 545k. Drilled 12-1/4" x 14-1/2" hole section from 14859' to 15113' md. Drilling parameters as follows: WOB: 7- 11k, RPM: 100, ROP: 70 fph, TORQUE: 12-15k ft/lbs, FLOW: 740 gpm, SPP: 2850 psi, ECD: 13.70-ppg circulating at 750 gpm – ESD 13.59-ppg with mud weight of 13.30-ppg.

Circulated bottoms up then pumped 200 bbls HI-VIS sweep. Once the sweep exited the bit, began weighting up from 13.3-ppg to 13.4-ppg. Pumped up ESD of 13.64-ppg with Sperry PWD. Took SCRs before pumping out of hole from 15113' to 14400' md. Pulled out of hole from 14400' to 13030' md. Flow checked, well static. POOH from 13030' to 12378' md. Pumped 50 bbls of 15.0-ppg slug at 12378' md. POOH from 12378' md to 1242' md. Continued POOH with BHA from 1242' md to 222' md. Laid down BHA from 222' md to surface. Cleaned and cleared the rig floor.

11-7/8" Casing

Picked up and made up 11-7/8", HCQ-125, HYD 523, 71.8 lb/ft shoe track. Ran in hole from surface to 284' md. Picked up and ran in hole with 11-7/8" HCQ-125, HYD 523 71.8 lb/ft casing from 284' md to 2266' md. Rigged down casing elevators and OES flowback tool. Rigged up drill pipe elevators. Picked up 11-7/8" hanger. Continued to rig down casing equipment. Ran in hole with landing string from 2266' to 4627' Md. Rigged down Weatherford casing tongs and rigged up the weatherford 8 x 80 tong to use in place of the iron roughneck. Tripped in hole with landing string from 4627' to 15113' md, with no drag. Picked up Blackhawk cement head. Dropped allamon 2" brass diverter conversion ball prior to going into open hole. Monitored pipe Displacement on trip tank. 0 mud loss while running in the hole with 11-7/8" casing. Pressured up to 1000 psi to shift diverter, sheared ball through diverter with 2200 psi. Allowed ball to fall to DTD. Pressured up on DTD to test diverter to 1000 psi, held for 2 minutes, sheared seated at 2000 psi. Pumped slow to see floats converting, did not see indication of float converting. Reciprocate & established circulation at 3 bpm. Staged pumps up to total of 10 bpm, getting partial returns. (Note: Losses during circulation 95 bbls) Rigged up Blackhawk cement head and rigged up chucksan lines to cement head. Pulled up 10 feet to 15103' md (Shoe). Monitored returns of 83 bbls with flow down to a trickle while rigging up cement head. Appears the losses were due to formation ballooning. Haliburton pumped 10 bbls of 14.5-ppg spacer and tested the lines to 7000 psi. Pumped 90 bbls 14.5-ppg spacer (total 100 bbls). Dart for bottom plug was launched accidentally after the 10 bbls of spacer was pumped. Haliburton mixed and pumped 124 bbls of 16.4-ppg premium cement. Halliburton launched the top dart with 5 bbls of cement followed by 5 bbls of spacer then 5 bbls of mud. Switched over to rig pumps and continued displacing with 597 bbls of SBM at 8 Bpm. Bottom dart went through diverter with 913 strokes pumped (2600 psi), DTD 1050 strokes (2,800 psi), bottom Plug sheared at 1181 strokes (1400 psi). Top dart went through diverter at 2572 strokes pumped (2800 psi) DTD 2711 strokes (2800 psi). Top plug sheared at 2842 strokes pumped (3100 psi). Bottom plug landed out at 3054 strokes (1800 psi). Top plug landed out at 4730 strokes pumped. Applied 500 psi over the circulating the pressure.

Haliburton bled pressure off to check floats. Bled back 3 bbls, floats holding. Monitored returns after shutting pumps down. Closed lower annular with 330 psi on choke gauge. Cement in place.

Note: Total losses for 11-7/8" casing job were as follows:

Losses while running & cementing 11.875" casing:

Lost while making up casing = 0 bbls
Lost while tripping on landing string = 0 bbls
Lost while circulating = 79 bbls
Lost while cementing = 228 bbls
Left behind pipe = 192 bbls

Rigged down cement head and laid out on the riser skate. Dropped drill pipe wiper ball and pumped 2 string

volumes. Pumped 50 bbls of 15-ppg slug. Pulled out of hole from 12817' to 45' md. Laid down casing hanger running tool from 45' md to Surface. Cleaned and cleared the rig floor. Rigged down casing handling tool from the forward PRS. Held pre-job safety meeting on picking up 10-5/8" x 12-1/4" drilling assembly.

10-5/8" x 12 1/4" Hole Section 15113' – 17173' md

Picked up 10-5/8" x 12-1/4" drilling assembly with NB No.9 a Hughes QD507FX with jets (7x12) MWD, Geo-Tap, Geo-Pilot and Bat Sonic and 12-1/4" Baker reamer and trip in from surface to 130' md. Programmed MWD tools. Continued picking up 10-5/8" x 12-1/4" drilling assembly from 130' to 450' md. Held pre-job meeting with crew on running in the hole. Continued running in the hole from 450' to 4028' md. Changed out jars going in the hole. Filled drill pipe and shallow tested MWD tools successfully. Slipped 100' of drill line. Reset floor saver and re-calibrated block. Verified crown saver. While slipping drill line began casing test. Tested casing to 1800 psi For 30 min. Initial pressure 1820 psi. Final pressure 1768 psi. Tested blind shear rams from the toolpusher's control panel on YELLOW pod to 250 psi low / 1800 psi high for 5 minutes each test. Function tested blind shear rams from driller's control panel on BLUE pod. Ran in the hole from 4028' md to 9259' md. While tripping hole, tested choke manifold to 250 psi low / 6,500 psi high. Tested all buffer valves to 250 psi low / 5,000 psi high for 5 minutes each test or green light on digital anatomized BOP test program.

Picked up 3 stands of 5-1/2", 38 lb test pipe and RIH with same. Monitored pipe displacement on trip tank. Ran in the hole from 9552' to 14503' md. Filled drill pipe. Picked up test kelly. Located on upper annular to verify 5-1/2" range 2 drill pipe was across BOPs. Rigged up chocks and lines. Tested the lines to 8000 psi. Tested subsea BOPs as per BP & MMS requirements on 5-1/2" drill pipe. Test performed using anatomized test procedure. Rigged down chocks and lines and surface testing equipment. Laid out test kelly on the riser skate. Ran in the hole from 14503' to 14,778' md. Tested sub sea BOPs on 6-5/8" drill pipe. Test performed using anatomized test procedure. Function tested subsea BOPs from the driller's control panel on the BLUE pod. Diverter was functioned at this time as well.

After completing testing BOPs, continued running in the hole from 14778' to 14906' md. Drilled cement from 14,906' md to 14,908' md. Drilling parameters as follows: WOB: 5-20k, RPM: 20-30, FLOW: 650 psi, SPP: 3000-3500 psi, P/U: 692k, S/O: 662k. Drilled float collar and cement from 14908' to 15043' md. Broke through float collar at 14911' md. Washed down to 14948' md. Drilled ratty cement from 14948' to 15037' md. Drilled firm cement from 15037' to 15043' md. Monitored the active system for gains or losses. CBU above the top of 11-7/8" liner. Took slow pump rates and choke line friction pressures. Closed upper annular and performed D-5 well control drill as per BP requirements. Monitored the active system for gains or losses. Flushed choke and kill lines after D-5 well control drill. Drilled cement and 11-7/8" shoe from 15043' to 15103' md. Drilled the cement in rat hole from 15103' md to 15113' md. Parameters as follows: WOB: 5-12k, RPM: 30-40, TORQUE: 7-14k ft/lbs, FLOW: 645 gpm, SPP: 3400 psi. Drilled 10' of new formation from 15113' to 15123' md with the following drilling parameters: WOB: 9-12, RPM: 40, ROP: 25-30 fph, TORQUE: 8-11k, FLOW: 645 gpm, SPP: 3400 psi, P/U: 706k, S/O: 673k, ROT: 680k.

Circulated cuttings above top of 11-7/8" liner. Pumped up static density of 13.6-ppg EMW with Sperry PWD. Racked back 1 stand and picked up test kelly. Placed the bit at 15079' md. Halliburton broke circulation down kill line and tested lines to 3000 psi. Performed leak off test. (Max pressure= 1020 psi. EMW= 14.7-ppg) Pumped static density of 14.48-ppg with Sperry PWD immediately following test. Monitored the riser on the trip tank. Rigged down chicksan lines and laid down test kelly. Tripped in the hole from 15053' to bottom at 15123' md.

Drilling 10-5/8" hole from 15123' md to 15230' md. Dropped 1-1/4" reamer activation ball. Ball sheared out at 2400 psi. Took 15k over-pull against the shoe to verify reamer was open. Drilled 10-5/8" x 12-1/4" hole from 15277' to 15460' md. Pumped 100 bbls HI-VIS sweep at 15442 md. Drilling parameter as follow: WOB: 9-20k, RPM: 90-100, ROP: 60-75 fph, TORQUE: 11-15k ft/lbs, FLOW: 750 gpm, SPP: 3900, P/U: 720k, S/O 685k, ROT: 692k. Drilled 10-5/8" x 12-1/4" hole from 15460' to 16140' md. Note: Weighted up to 13.7-ppg at 15575' to 13.7 ppg, weighted up to 13.8-ppg at 16075' md. Flow checked at each connection. Drilling parameters for this interval were as follows: WOB: 10-30k, RPM: 100-135, ROP 60-75 fph, TORQUE: 11-15k ft/lbs, FLOW: 740 gpm, SPP: 4000 psi, P/U: 745k, S/O: 705k, ROT: 712k. Drilled 10-5/8" x 12-1/4" hole from 16140' to 16628' md. Drilling parameters: WOB: 11-20k, RPM: 115-135, ROP: 60-75 fph, FLOW: 750 gpm, SPP: 4000 psi, P/U: 755k, S/O: 715k, ROT: 725k.

Note: Increased mud weight from 13.8-ppg to 13.9-ppg at 16341' md.

Attempted to take Geo-Tap at 16611' md bit depth (probe 16513' md) Attempt unsuccessful. Attempted second Geo-Tap at 16610' bit depth (probe 16512' md). No success. Drill from 16628' md to 16782' md with the following drilling parameters: WOB: 11-20k, RPM: 115-135, ROP: 60-75 fph, FLOW: 750 gpm, SPP: 4000 psi, P/U: 755k, S/O: 715k, ROT: 725k. Continued drilling from 16782' to 17039' md. Raised mud weight to 14.0-ppg at 16782' md. Circulated out connection for formation evaluation. Drilled from 17039' to 17173' md (Hole section TD as directed by the sub-surface team). Circulated bottoms up before pumping up static density of 14.14-ppg using Sperry PWD. Pumped 100 bbls of HI-VIS sweep followed by 14.1-ppg SBM and circulate out. Monitored active for gains or losses. Circulate bottoms up raising mud weight to 14.1 ppg. Pumped up static density of 14.33-ppg using Sperry PWD after 14.1-ppg mud weight was around. Took slow pump rates and pulled out of hole from 17173' to 15032' md. Flow checked well, static. Pumped 60 bbl. 16.1-ppg slug. Pulled out of hole from 15032' md to 1276' md. Pull out of hole with 6-5/8" HWDP from 1276' to 347' md. Held pre-job meeting with crew on laying down BHA. Laid down BHA from 347' md to surface. Cleaned and cleared rig floor. Monitor well on trip tank.

9-7/8" Casing

Rig up rig floor to run 9-7/8" liner. Held pre-job meeting with crew on running 9-7/8" liner. Ran 9-7/8" 62.8# Q-125 HYD 523 liner from surface to 2371' md. Baker-locked the shoe track. Rigged down casing elevators, single joint elevators and OES mud tool. Rigged up drill pipe elevators. Drop 3-1/2" float conversion ball. Picked up the liner hanger from 2371' to 2408' md. Rigged down casing slips, conveyor trough and installed master bushings. Clear the rig floor of casing equipment. Trip in hole with 9-7/8" liner on 6-5/8" landing string from 2408' to 17154' md. Pressured up to 1000 psi to shift diverter. Seat at 2450 psi. Pressured up to 1000 psi on DTD to test diverter. Seat at 2500 psi. Monitor pipe displacement on trip tank. Mud lost = 59 bbls. Made up cement head and circulated staging pumps up to 8 bpm. Washed down to 17173' md. Total mud lost while circulating = 50 bbls. Rig up Blackhawk cement head, chicksan lines and positioned casing shoe at 17,163' md.

Preform cement job on 9-7/8" liner. Halliburton pumped 5 bbls of 14.7-ppg spacer. Tested chicksan lines to 7,000 psi. Good test. Pumped 70 bbls of 14.7-ppg spacer for a total of 75 bbls of spacer ahead. Dropped bottom plug dart. Pumped 80 bbls of 16.4-ppg cement. Dropped dart for top plug with 5 bbls of cement pumped. Pumped additional 5 bbls of spacer followed by 10 bbls of 14.1-ppg mud. Displaced cement with 14.1-ppg SBM using rig mud pumps.

Expanded 9-7/8" hanger with 5000 psi. Total bbls pumped 7.5 bbls, bled back 7.5 bbls. Hold pre-task safety meeting and rigged down chicksan lines and laid out cement kelly. Noted 60k over while pulling out of 11-7/8" hanger. Dropped nerf ball and circulated two drill string volumes at 14179' md. Pumped 16.5-ppg slug at 14179' md. Pull out of hole with 11-7/8" hanger from 14179' md to surface. Laid out Weatherford running tool and Allamon diverter tool before beginning 6 hr maintenance on topdrive, iron roughneck, prs and kelley hose while waiting on cement. Continued with 6 hour planned maintenance period. Unpinned RBS after casing job. Held pre-job meeting with crews on picking up 8-1/2" x 9-7/8" BHA.

8-1/2" x 9 7/8" Hole Section 17173' – 18260' md

Picked up 8-1/2" x 9-7/8" drilling assembly with NB No.10 a 8-1/2" Hughes HC408XC jets (4x12) MWD, GeoTap, Geo-Pilot and Bat Sonic and trip in from surface to 125' md. Programmed MWD tools and continue picking up BHA from 125' to 339' md. Change out die blocks to handle 5-1/2" drill pipe & HWDP. Pick up 5-1/2" HWDP from 339' to 1233' md. Run in hole from 1233' to 4127' md. Fill pipe and shallow test MWD at 4127' md. Test casing and blind shear rams to 250 psi / low 914 psi / high, after 30 min. 887 psi. Pumped 5.75 bbl and bled back 5.75 bbl. Function test blind shear rams from toolpusher's panel on YELLOW pod. Run in hole from 4127 to 14195' md. Fill drill pipe and test MWD tools at 14195' md. Run in hole from 14195' to 16946' md monitoring pipe displacement on trip tank. Circulate and condition mud at 16946' md. Start raising mud weight from 14.1-ppg to 14.3-ppg. Wash down from 16946' to 17001' md. Drill plugs and float collar from 17001' to 17005' md. Continued to drill cement from 17005' to 17158' md. Drilling parameters as follows: WOB: 14-15k, RPM: 40, TORQUE: 8-11k ft/lbs, FLOW: 350 gpm, SPP: 2450 psi. Held D-5 well control drill per BP at 17158' md. Continued to drill cement from 17158' to 17173' md. Drilling parameters as follows: WOB: 14-15k, RPM: 40, TORQUE: 8-11k ft/lbs, FLOW: 350 gpm, SPP: 3460 psi, P/U: 665k, S/O: 638k, ECD: 14.73-ppg with 14.3-ppg mud weight. Drilled 10' of new formation from 17173' to 17183' md. Drilling parameters as follows: WOB: 14k, RPM: 20, TORQUE: 4-5k ft/lbs, FLOW: 350, SPP: 3460 psi, P/U: 665k, S/O: 638k, ECD: 14.73-ppg.

Circulated cuttings above the BOPs at 17183' md. Flow checked well, static. Pumped up static density of 14.52-ppg EMW using Sperry PWD. Flow checked, well static. POOH from 17183' to 17168' md. Picked up test kelly, rigged up lines and tested to 2000 psi. Performed L.O.T test as on 9-7/8" casing shoe at 17168'. Halliburton test procedure as follows: Pumped 10 bbls, ISIP: 1500 psi. Max pressure observed 1520 psi (EMW= 15.98-ppg), after 10 minutes : 1503 psi, bled back 10 bbls. Pumped up static density of 16.22-ppg EMW with Sperry PWD immediately following test. Rigged down Halliburton chicksan lines and laid down test kelly. Washed down from 17168' to 17183' md. Drill 8-1/2" hole from 17183' to 17321' md. Parameters as follow: WOB: 6-12k, RPM: 120, ROP: 60-80 fph, FLOW: 350 gpm, SPP: 2952, P/U: 690k, S/O: 660k, ROT: 665k. Pump down 1-3/8" reamer activation ball. Activate reamer

and pull test against 9-7/8" shoe with 17k over pull at 17168 md'. Drill from 17321' to 17634' md. Increased mud weight to 14.5-ppg from 14.3-ppg.

Drilled from 17634' to 17761' md. Noted 134 bbl loss. Flow checked well, unable to obtain a no flow. Shut well in on the lower annular. Well shut in and monitored pressure on the choke of 110 psi. Worked pipe, pipe free. Bled pressure off to mini-strip tank and bled back 3 bbls flowing back at 18 bbls per hour. Closed back in at 3 bbls bled back and monitored pressure of 120 psi after 7.5 minutes. Bled pressure off. Bled back 3.2bbls, flow back at 24 bbls per hour. Shut back in and monitored pressure of 140 psi after 22 minutes. Bled pressure off again. Bled back 3 bbls, flow back at 24 bbls per hour. Shut back in. Monitored pressure of 120 psi after 4 minutes. Monitored pressure of 120 psi after 22 minutes. Worked pipe & bled pressure off, pipe free. Bled back 3.21 bbls, flow back at 24 bbls per hour. Shut in and monitored pressure of 120 psi after 6 minutes. Monitored pressure of 120 psi after 20 minutes. Bled pressure off to 0 psi, bled back 5.0 bbls, flow back at 18 bbls per hour. Shut in, monitored pressure of 100 psi after 4 minutes. Monitored pressure of 100 psi after 20 minutes. Worked pipe & bled pressure to 0 psi, bled back 9.1 bbls, flow back at 12 bbls per hour. Monitored pressure of 80 psi after 20 minutes. Worked pipe and bled off pressure. Bled back 8.3 bbls, flow back at 6 bbls per hour. Worked pipe, pipe free. Opened lower annular. Monitored well on trip tank. Total bbls bled back = 34.8 bbls. Note: Total bbls lost in 24 hour period was 233 bbls. Pumped 184 bbls of 84-ppb LCM pill. Spotted LCM pill at 17761' md. Lost 41 bbls while pumping pill.

Drilled 8-1/2" x 9-7/8" hole section from 17761' to 17835' md with the following drilling parameters: WOB: 11-12k, RPM: 120, ROP: 60-80 fph, TORQUE: 8-12k ft/lbs, FLOW: 400 gpm, SPP: 3900 psi, P/U: 690k, S/O: 660k, ROT: 665k. Washed and backreamed from 17835' to 17765' logging up with Sperry MWD from 17765' to 17745' md. Washed back down to 17835' md. Take Geo-Tap pressure at the following depths:

Test No.1: Bit depth= 17808' md Probe depth= 17723' md Geo-Tap reading: 14.16 ppg EMW
Test No.2: Bit depth= 17807' md Probe depth= 17722' md Geo-Tap reading: Tight Test
Test No.3: Bit depth= 17809' md Probe depth= 17724' md Geo-Tap reading: 14.18 ppg EMW
Test No.4: Bit depth= 17808' md Probe depth= 17723' md Geo-Tap reading: 14.15 ppg EMW

Circulated bottoms up and cut mud weight back from 14.5-ppg to 14.3-ppg. Max gas was 309 units (10.3%). Flow check well for 1 hour after bottoms up. Well flowed back 16 bbls in 60 minutes, well static. Function tested BOPs from the tool pusher's control panel on the YELLOW pod. Took SCRs before washing down from 17634' to 17835' md. Pumped 100 bbls of 84-ppb LCM pill.

Drill ahead 8-1/2" x 9-7/8" hole section from 17835' to 17909' md with the following drilling parameters: WOB: 10-15k, RPM: 115, ROP: 60-80 fph, TORQUE: 10-14k ft/lbs, FLOW: 400 gpm, SPP: 3150 psi, P/U: 690k, S/O: 655k, ROT: 680k, ECD: 14.9-ppg, ESD: 14.5-ppg. Continued drilling 8-1/2" x 9-7/8" hole section from 17909' to 18195' md with drilling parameters averaging: WOB: 12-15k, RPM: 115, ROP: 30-60 fph, TORQUE: 8-13k ft/lbs, FLOW: 400 gpm, SPP: 3050 psi. Circulated at 18195' md before taking Geo-Tap pressure reading in sand. Geo-Tap data as follows:

Test No.1: Bit depth= 18175' md Probe depth= 18090' md Geo-Tap reading: 12.59 ppg EMW
Test No.2: Bit depth= 18174' md Probe depth= 18089' md Geo-Tap reading: 12.60 ppg EMW

Drill ahead 8-1/2" x 9-7/8" hole from 18195' 18215' md with drilling parameters as follows: WOB: 12-15k, RPM: 115, ROP: 30-40 fph, TORQUE: 10-13k ft/lbs, FLOW: 400 gpm, SPP: 3050 psi, P/U: 690k, S/O: 665k, ROT: 680k. Continue drilling 18215' to 18260' md with ROP decreasing. Drilling parameters were as follows: WOB: 1-6k, RPM: 140, ROP: 15-30 fph, TORQUE: 9-12k ft/lbs, FLOW: 400 gpm, SPP: 3100 psi, P/U: 720k, S/O: 675k, ROT: 690k. Decision made to weight up to 14.4-ppg from 14.3-ppg. Note: Connection gas from 18050' md was 156 units (5.2%). Connection gas from 18215' md was 786 units (26.2%) with a low mud cut of 14.1-ppg from 14.3-ppg.

Continued circulating at 18260' md while increasing mud weight to 14.4-ppg. Attempted to take Geo-Tap pressure reading at a bit depth of 18232' md / probe depth of 18147. Unable to obtain readings. Continued circulating 14.4-ppg around. At 9322 strokes pumped, lost returns. Closed annular and displaced kill line with 23 bbls of base oil. Pumped 171 bbls of 84-ppb LCM pill. Opened annular and monitored on trip tank. Lost 21 bbls in 3 minutes. Closed annular and monitored well on backside. Note: Lost a total of 639 bbls to the formation. Located tool joint and spaced out in BOP stack. Filled trip tank with base oil and relieved annular pressure allowing riser mud to fall down hole. Increased annular pressure and topped off riser with base oil. Note: Added a total of 301 bbls of base oil to create riser cap. Opened annular and monitored. Well was deemed static with a calculated EWM of 13.9-ppg at 18260' md.

POOH from 18260' to 17146' md. Pumped 15 bbls of base oil to replace pipe displacement. Monitored well on trip tank, hole taking at 6 bbls/hr. Reduce mud weight in surface pits from 14.3-ppg to 14.0-ppg. Held pre-job safety meeting with crew on displacing riser and pumping LCM pill. Closed annular and displaced mud weight in riser to 14.0-ppg monitoring well on kill line, static. Pumped 187 bbls of 84-ppb LCM pill and displaced with 14.0-ppg SBM. Monitored kill line for returns. No returns observed and pipe was slugging.

Decision was made to pump Form-A-Set / Form-A-Squeeze tandem pill. Total mud lost in 24 hour period was 1263 bbls. Stopped out of hole from 17162' to 14937' md. Monitored volumes and pressures while building Form-A-Set pill. Reduced pressure on upper annular, well taking mud at 6.3 bbls in 2 minutes. Fill mini-trip tank with base oil and open to kill line to monitor well for gains / losses. Pumped 80 bbls Form-A-Squeeze with rig pumps at 250 gpm down drill pipe. Pump 180 bbls of Form-A-Set pill down drill pipe using rig pumps followed by an additional 40 bbls of Form-A-Squeeze chasing with 20 bbls of 14.0-ppg SBM. Turned pumping operations over to Halliburton and displaced pill with 14.0-ppg pumping at 6 bbls/min. At 440 bbls pumped, Halliburton began squeezing at 1/2 bbl/min with a total of 78 bbls pumped with a pressure of 132 psi. Note: Total mud lost in 12 hour period was 1586 bbls. ISIP: 160 psi (78 bbls). Bled back 3-1/4 bbls.

Opened kill valve and monitored well on mini-strip tank. Opened annular and monitored well on trip tank with losses recorded at 12 bph. Closed annular and monitored well on mini-trip tank while mixing second Form-A-Set / Form-A-Squeeze pill. Opened annular and monitored losses at 12 bph. Pumped 80 bbls Form-A-Squeeze at 9.5 bpm as per BP and MI procedure. While pumping pill, observed full returns. Monitored well on trip tank for 8 minutes. Well was deemed static. Decision made to circulate out Form-A-Squeeze pill displacing annulus with 14.0-ppg while circulating out. Flow checked well on trip tank for 30 minutes after bottoms up. Well was deemed static. Closed upper annular and middle pipe rams. Displaced choke and kill lines to 14.0-ppg. Took slow pump rates before pulling out of hole wet from 14937' to 13643' md. Pumped 80 bbls of 17.0-ppg slug. Pulled out of hole from 13643' to 1233' md monitoring pipe displacement on trip tank. Continued POOH laying down HWDP and BHA from 1233' md to surface. Cleared and cleaned rig floor. Performed blind shear function test as per BP and MMS requirements from the toolpusher's control panel on the YELLOW pod.

Note: Bit appeared to be in good shape. Grade was 1 and 2. One jet observed to be plugged.

Note: All of Baker's reamer cutters were either broken or missing. Blade were worn down pas cutter pockets.

8-1/2" Hole Section 18260' – 18360' md

Picked up 8-1/2" drilling assembly with NB No.11 a 8-1/2" Hughes HC408XC jets (4x14) and MWD with PWD only from surface to 66' md. Programmed MWD tools and continue picking up BHA from 66' to 262' md. RIH with 5-1/2" HWDP from 262' to 1155' md. Continue running in hole with 8-1/2" drilling assembly from 1155' to 4874' md where MWD tool were successfully shallow tested. Hung block off and slipped and cut 180 feet of drill line. Re-calibrated block and verified crown saver. Continued tripping in hole with 8-1/2" drilling assembly from 4874' to 8318' md. Filled pipe and broke circulation. Continued running in hole from 8318' to 11483' md. Filled pipe and broke circulation. Tripped in hole from 11483' to 14667' md. Filled pipe and broke circulation staging pumps up to 300 gpm. Resumed tripping in hole from 14667' to 17144' md. Filled pipe and broke circulation staging pumps up to 300 gpm. Continued running in hole from 17144' to 17668' md. Filled pipe and circulated for 30 minutes staging pumps up to 300 gpm. Wash from 17668' to 17686' md. Tagged up with 9k weight. Washed and reamed to 17831' md. Note: Saw intermittent spots where bit would take weight and pump pressure would increase along with ECD. Continued washing and reaming from 17831' to 18234' md. While backreaming at 18193' md, flow rate dropped from 39% to 29%. Observed pump pressure decrease from 2049 psi to 1924 psi and ECD dropped from 14.5-ppg to 14.4-ppg at this time as well. Shut pumps down and observed well on trip tank for 1 hour. Note: Loss rate started at 6 bph decreasing to 1.2 bph after 1 hour. Total of 3 bbls lost in 1 hour.

Note: Depths where bit took weight while washing and reaming were: 17884' md, 17889' md, 18046' md, 18070' md, 18110' md, 18130' md, 18210' md, 18227' md.

Pumped 172 bbls of 84-ppb LCM pill and displaced at 30 spm with full returns. With 10 bbls outside of bit, increased rotary to 50 RPM and increased pumps to 56 spm with no losses. Continued to wash and log from 18234' to 18260' md. Circulate and condition mud at 18260' md. Trip gas was 479 units (15.9%) Took SCRs before drilling ahead.

Drilled ahead 8-1/2" hole section from 18260' to TD at 18360' md with the following drilling parameters: WOB: 4-8k, RPM: 100, ROP: 25 fph, TORQUE: 10-12k ft/lbs, FLOW: 300 gpm, SPP: 2090 psi, P/U: 708k, S/O: 677k, ROT: 687k. Circulate hole clean at 18360' md pumping at 300 gpm. After hole was deemed clean, shut pumps down and checked flow, negative. Pumped up a static density of 14.22-ppg with Sperry PWD before starting to pump out of hole. Pumped out of hole from 18360' to 17001' md.

Note: Observed tight spots while pumping out of hole at following depths: 18195' md (5k), 1835' md (5k) and 18132' md (10k).

Flow checked well and monitored well on trip tank, static. Picked up test kelly. Locate on annular and rigged up chicksan lines. Tested lines to 7500 psi. Tested BOPs on 6-5/8" drill pipe as per BP and MMS requirements. Test performed from driller's control panel on the BLUE pod. Tested BOPs to 250 psi low / 6500 psi high. Tested annulars to 250 psi low / 3500 psi high using Halliburton's anatomized BOP test program. Rig down chicksan lines and laid out test kelly after testing was completed. Pulled out of hole with 8-1/2" drilling assembly from 17006' to 16667' md. (Note: Observed 18-30k drag from 17006' to 16914' md. Observed 10-15k drag from 16672' to 16667' md) Made up top drive, circulated at 300 gpm and worked pipe for 15 minutes, no drag. Shut pumps down and worked pipe up to 16594' md with no drag noted. Located 5-1/2" test joints on upper annular and spaced out. Tested BOPs on 5-1/2" drill pipe as per BP and MMS requirements. Test was performed from driller's control panel on BLUE pod. Tested lower annular and all associated valves to 250 psi low / 3500 psi high for 5 minute straight line test. Tested upper annular to 250 psi low for 5 minutes and 3500 psi high until green light on anatomized test program was reached. Tested all pipe rams and fail safes to 250 psi low for 5 minutes and 6500 psi high until green light on anatomized test program was reached. Functioned sub-sea BOPs from toolpusher's control panel on YELLOW pod and functioned diverter as well.

Pump out of hole from 16693' to 14667' md. Pulled out of hole wet from 14667' to 14117' md. Pumped 75 bbls of 17.0-ppg slug. Continued POOH from 14667' to 1155' md. POOH racking back HWDP and drill collars from 1155 to 73' md. Laid out BHA. Cleaned and cleared rig floor in preparation of running wireline logs with Schlumberger.

Wireline Logging Operations (Macondo Bypass) MC 252 No.1 ST00BP01

Held pre-job meeting with crews on rigging up Schlumberger wireline. Rigged up Schlumberger wireline equipment. Loaded radio-active sources and tested Triple Combo wireline tools. Run in hole with Schlumberger ZAIT-GPIT-LDS-CNT-GR-LEHQT Triple Combo tools from surface to 17168' wlm monitoring well on trip tank. Log down with triple combo from 17168' to 18280' wlm. Could not go past 18280' wlm. Logged up from 18280' to 17168' wlm. Took over pulls at following depths: 18060' wlm (400 lbs), 17790' wlm (500 lbs), 17770' wlm (750 lbs), 17685' wlm (900 lbs) and 17672' wlm (1000 lbs). POOH with triple combo tools from 17168 to 78' wlm. Remove radio-active sources and lay down tools from 78' wlm to surface.

Pick up CMR-ECS-HNGS-LEHQT tools from surface to 66' wlm. Run in hole on wireline from 66' to 17168' wlm. Log down from 17168' to 18280' wlm. Log back up from 18280' to 17168'. POOH with wireline from 17168' wlm to surface laying down CMR-ECS-HNGS-LEHQT tools.

Pick up OBMI logging tools. Run in hole from surface to 18264' wlm. Log up from 18264' to 11700' wlm with OBMI tools. Pull out of hole with OBMI logging tools from 11700' to 113' wlm. Lay down OBMI tools from 113' wlm to surface.

Pick up MDT-GR-LEHQT tools from surface to 165' wlm. Run in hole from 165' to 18250' wlm monitoring well on trip tank for gains or losses. Logged up from 18250' to 18121' wlm. Note: took MDT pressures from 18121' to 18143' wlm making 6 attempts with 2 successful captures. Continue taking MDT pressures with Schlumberger wireline from 18157' to 17701' wlm. Attempted 17 with a total of 7 captured successfully. Pulled out of hole with MDT tools from 17701' to 165' wlm. Lay out tools from 165' wlm to surface.

Picked up Schlumberger rotary side wall coring tools from surface to 47' wlm. Tripped in hole on wireline with rotary side wall coring tools from 47' to 18230' wlm. Made 5 coring attempts with 4 successful and 1 unsuccessful. POOH with rotary side wall coring tools from 18230' to 47' wlm due to tool failure. Laid out first set of rotary sidewall coring tools and picked up second set. Run in hole with second set of rotary coring tools from 47' wlm to 18087' md. Made 4 coring attempts with all 4 successful before experiencing tool failure. POOH with Schlumberger rotary sidewall coring tools from 18087' to 47' wlm. Laid out coring tools.

Pick up Schlumberger USIC (check shot) tools from surface to 187' wlm. Run in hole on wireline from 187' to 17575' wlm monitoring well on trip tank. Log up from 17575' to 5054' wlm. Pull out of hole with Schlumberger seismic logging tools from 5054' wlm to 187' wlm. Lay down tools from 187' wlm to surface.

Pick up Schlumberger rotary sidewall coring tools from surface to 47' wlm. Run in hole on wireline with coring tools from 47' to 18230' wlm. Cut cores with Schlumberger rotary sidewall coring tools from 18230' to 17707'. POOH with Schlumberger rotary sidewall coring tools from 17707' to 47' wlm. Laid out coring tools. Rigged down Schlumberger wireline. Note: Recovered a total of 44 core samples from the three rotary sidewall coring runs. Recovered 4 cores on first run, recovered 4 cores on second run and recovered 36 cores on final run.

8-1/2" Clean-Out Trip (Macondo Bypass) MC 252 No.1 ST00BP01

Picked up 8-1/2" clean-out assembly with a 8-1/2" Hughes HC408XC jets (4x14) and MWD with PWD only from surface to 66' md. Programmed MWD tools and continue picking up BHA from 66' to 262' md. Run in hole with 5-1/2" HWDP from 262' to 1155' md. Continued running in hole with 8-1/2" clean-out assembly on 5-1/2" drill pipe from 1155' to 4598' md. Filled drill pipe and shallow tested MWD tools successfully. Continued running in hole from 4598' to 6664' md. Changed out pipe handling equipment from 5-1/2" to 6-5/8". Continued running in hole with 8-1/2" clean-out assembly on 6-5/8" drill pipe from 6664' md to 8101' md. Filled pipe and broke circulation. Tripped in hole from 8101' to 11541' md. Filled pipe and broke circulation. Continued tripping in hole from 11541' to 14759' md. Note: Set Drill-Quip wear sleeve running tool at well head. Set with 20k down and pulled 30k over. Pulled slack-off 40k down picking up with 5k down. Rotated 1/2 turn to the right to release. Filled pipe and

staged pumps up to 300 gpm to circulate at 14708' md. Continued tripping in hole from 14708' to 17168' md at reduced running speeds. Filled pipe and staged pumps to 300 gpm to circulate and condition at shoe. Ran in the hole from 17168' to 17668' md where the pipe was filled and pumps staged up to 300 gpm to circulate and condition mud. Continued running in hole with 8-1/2" clean-out assembly from 17768' to 18127' md. Made up top drive to wash and ream from 18127' to 18360' md (TD). Note: At 18272' md has 10k drag, picked up and reamed through. At 18280' md, started taking weight of 15k. Washed and reamed through with the following parameters: RPM: 50, FLOW: 300, SPP: 2000 psi.

Circulated bottoms up at 18360' md (TD). Trip gas was 1120 units (37%) with a low mud cut of 13.7-ppg from 14.0-ppg. Pumped 100 bbl HI-VIS sweep and circulated 1-1/2 bottoms up. Gas down to +/-70 units before shutting pumps down. Shut pumps down to take static density with Sperry PWD. Pumped up ESD of 14.2-ppg EMW with Sperry PWD. Shut down and pumped up second static density of 14.19-ppg EMW with Sperry PWD. Took SCRs before pumping out of hole.

Pumped out of hole from 18360' to the shoe at 17168' md. Flow checked well at shoe, static. Continued pumping out of hole from 17168' to 14759' md. Monitored well with static results. Pulled out of hole wet from 14759' to 14020' md. Function tested BOPs as per BP and MMS requirements from the driller's control panel on the BLUE pod. Pumped 70-bbbls of 16.8-ppg slug and continued pulling out of hole from 14020' to 6725' md. Sheared wear sleeve with 120k overpull (pinned for 60k). Did not retrieve wear sleeve. Performed 5 minute flow check before laying down Dril-quip wear bushing retrieval tool from 6725' to 6664' md. Continued pulling out of hole from 6664' to 1155' md. POOH with 5-1/2" HWDP from 1155 to 262' md. Lay down BHA from 262' to surface.

Make up Dril-Quip Wash Sub / Bull Nose from surface to 51' md. Run in hole with 6-5/8" tail pipe from 51' to 1152' md. Pick up and run in hole with Dril-Quip multi-purpose tool assembly from 1152' to 1222' md. Ran in hole from 1222' to 5004' md at 2 minutes per stand. Washed BOP stack and well head from 5004 to 5088' md at 10 bbls/min and boosted riser at same rate. Continued tripping in hole from 5088' to 6229' md. Stage boost pumps to 10 bbls/min. Latched into wear sleeve at 5060' md. Slacked off to 30k down, picked back up with 80k overpull. Slacked off to neutral then picked back up to 135k overpull. Slacked back off to neutral then picked back up with 160k overpull, wear bushing came free. Saw increase of 17k on hookload and 200 psi increase while pulling past boost line confirming wear sleeve was retrieved. POOH from 6170' to 5088' md. Washed well head from 5088' to 4954' md at 10 bbls/min. Pumped 30 bbls of 16.7-ppg slug before pulling out of hole, removing wear sleeve from string and laying down Dril-Quip multi-purpose tools. Cleaned and cleared rig floor in preparation for running 7" x 9-7/8" production casing.

This concludes the drilling summary for the Macondo Bypass well.

3.2 BIT SUMMARY

BIT SUMMARY REPORT

Company Name: BP Exploration & Production Inc.
Well Name: OCS-G-32306 001 ST00BP00
Location: Mississippi Canyon Block 252
Contractor Name: Transocean Offshore, Inc.
Rig Name: Deepwater Horizon

Start Date: 12-Feb-10
End Date: 17-Mar-10

| BIT No. | Bit Size (in) | Manufacture | Model Number | TFA | TMD Out (feet) | Footage Drilled (feet) | On Btm Hours | ROP (ft/hr) | WOB Avg (Klbs) | RPM Surface Avg | MUD Motor Avg | TOTAL RPM |
|---------|---------------|-------------|--------------|-------|----------------|------------------------|--------------|-------------|----------------|-----------------|---------------|-----------|
| NB 4 | 16.5" | Hughes | HC507Z | 1.052 | 9086 | 10 | 0.1 | 150 | 0.2 | 50 | 0 | 50 |
| RRB4.1 | 16.5" | Hughes | HC507Z | 1.052 | 9086 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RRB4.2 | 16.5" | Hughes | HC507Z | 1.052 | 12350 | 3264 | 33.5 | 97 | 2.5 | 120 | 0 | 120 |
| NB 5 | 16.5" | Hughes | GTX-CG1 | 0.518 | 11638 | 2552 | 8.5 | 300 | 0 | 35 | 0 | 35 |
| NB 6 | 14-3/4" | Hughes | QD507 | 1.052 | 11615 | 30 | 4.4 | 6.8 | 5-8 | 38 | 0 | 38 |
| RRB6.1 | 14-3/4" | Hughes | QD507 | 1.052 | 13305 | 955 | 43 | 107 | 5 | 130 | 0 | 130 |

BIT SUMMARY REPORT

Company Name: BP Exploration & Production Inc.
Well Name: OCS-G-32306 001 ST00BP01
Location: Mississippi Canyon Block 252
Contractor Name: Transocean Offshore, Inc.
Rig Name: Deepwater Horizon

Start Date: 18-Mar-10
End Date: 09-Apr-10

| | | | | | | | | | | | | |
|-------|---------|--------|---------|-------|-------|------|------|----|-------|-----|---|-----|
| NB 7 | 14-3/4" | Hughes | QD507 | 1.052 | 13150 | 1450 | 25.8 | 56 | 2-10 | 125 | 0 | 125 |
| NB 8 | 12-1/4" | Hughes | QD505 | 0.773 | 15113 | 1963 | 28.0 | 70 | 6-10 | 100 | 0 | 100 |
| NB 9 | 10-5/8" | Hughes | QD507FX | 0.773 | 17173 | 2060 | 30.1 | 68 | 10-16 | 136 | 0 | 136 |
| NB 10 | 8-1/2" | Hughes | HC408XC | 0.442 | 18260 | 1087 | 25.5 | 42 | 10-20 | 115 | 0 | 115 |
| NB 11 | 8-1/2" | Hughes | HC408XC | 0.601 | 18360 | 100 | 4.1 | 28 | 4-10 | 100 | 0 | 100 |

3.3 BIT RUN SUMMARY (Macondo) MC 252 No.1 ST00BP00

BIT NO. 4 SUMMARY Database Run #0500

| | | | |
|---------------|-----------------------|---------------|-------|
| Bit Run | NB No. 4 | TFA | 1.052 |
| Bit Type | 16-1/2" Hughes HC507Z | Average ROP | 150 |
| Jets | 7 x 14 | Average WOB | 0-2 |
| Depth Drilled | 9076' – 9086' | Surface RPM | 50 |
| | | Mud Motor RPM | 0 |
| | | Total RPM | 50 |
| Footage | 10 | Average GPM | 1000 |
| HOB | 0.1 | Average SPP | 3040 |

Ran with Geo-Pilot and 20" under-reamer.

BIT NO. RRB4.1 SUMMARY Database Run #0600

| | | | |
|---------------|-----------------------|---------------|-------|
| Bit Run | RRB4.1 | TFA | 1.052 |
| Bit Type | 16-1/2" Hughes HC507Z | Average ROP | N/A |
| Jets | 7 x 14 | Average WOB | N/A |
| Depth Drilled | 9086' – 9086' | Surface RPM | N/A |
| | | Mud Motor RPM | 0 |
| | | Total RPM | N/A |
| Footage | 0 | Average GPM | N/A |
| HOB | 0 | Average SPP | N/A |

Ran with Geo-Pilot and 20" under-reamer.

BIT NO. RRB4.2 SUMMARY Database Run #0700

| | | | |
|---------------|-----------------------|---------------|-------|
| Bit Run | RRB4.2 | TFA | 1.052 |
| Bit Type | 16-1/2" Hughes HC507Z | Average ROP | 97 |
| Jets | 7 x 14 | Average WOB | 2-5 |
| Depth Drilled | 9086' – 12350' | Surface RPM | 120 |
| | | Mud Motor RPM | 0 |
| | | Total RPM | 120 |
| Footage | 3264 | Average GPM | 1010 |
| HOB | 33.5 | Average SPP | 3136 |

Ran with Geo-Pilot and 20" under-reamer.

BIT NO. 5 SUMMARY Database Run #0800 (Clean out run)

| | | | |
|---------------|------------------------|---------------|-------|
| Bit Run | NB No 5 | TFA | 0.518 |
| Bit Type | 16-1/2" Hughes GTX-CG1 | Average ROP | 300 |
| Jets | 3 x 15 | Average WOB | 0-1 |
| Depth Drilled | 9086' – 11638' | Surface RPM | 37 |
| | | Mud Motor RPM | 0 |
| | | Total RPM | 37 |
| Footage | 2552 | Average GPM | 400 |
| HOB | 8.5 | Average SPP | 1043 |

Ran with Geo-Pilot and 20" under-reamer.

BIT NO. NB No 6 SUMMARY Database Run #0900 (Clean out run)

| | | | |
|---------------|----------------------|---------------|-------|
| Bit Run | NB No 6 | TFA | 1.052 |
| Bit Type | 14-3/4" Hughes QD507 | Average ROP | 6.8 |
| Jets | 7 x 14 | Average WOB | 5-8 |
| Depth Drilled | 11585' – 11615' | Surface RPM | 38 |
| | | Mud Motor RPM | 0 |
| | | Total RPM | 38 |
| Footage | 30 | Average GPM | 820 |
| HOB | 4.4 | Average SPP | 2630 |

Ran with Geo-Pilot and 16-1/2" under-reamer.

BIT NO. RRB6.1 SUMMARY Database Run #1000

| | | | |
|---------------|----------------------|---------------|-------|
| Bit Run | RRB6.1 | TFA | 1.052 |
| Bit Type | 14-3/4" Hughes QD507 | Average ROP | 105 |
| Jets | 7 x 14 | Average WOB | 5 |
| Depth Drilled | 12350' – 13305' | Surface RPM | 135 |
| | | Mud Motor RPM | 0 |
| | | Total RPM | 135 |
| Footage | 955 | Average GPM | 950 |
| HOB | 43 | Average SPP | 3435 |

Ran with Geo-Pilot and 16-1/2" under-reamer.

3.3A BIT RUN SUMMARY (Macondo Bypass) MC 252 No.1 ST00BP01

BIT NO. NB No 7 SUMMARY Database Run #1100 (Bypass run)

| | | | |
|---------------|----------------------|---------------|-------|
| Bit Run | NB No 7 | TFA | 1.052 |
| Bit Type | 14-3/4" Hughes QD507 | Average ROP | 50-80 |
| Jets | 7 x 14 | Average WOB | 2-10 |
| Depth Drilled | 11700' – 13150' | Surface RPM | 125 |
| | | Mud Motor RPM | 0 |
| | | Total RPM | 125 |
| Footage | 1450 | Average GPM | 900 |
| HOB | 25.8 | Average SPP | 3000 |

Ran with Geo-Pilot and 16-1/2" under-reamer.

BIT NO. NB No 8 SUMMARY Database Run #1200

| | | | |
|---------------|----------------------|---------------|-------|
| Bit Run | NB No 8 | TFA | 0.773 |
| Bit Type | 12-1/4" Hughes QD507 | Average ROP | 70 |
| Jets | 7 x 12 | Average WOB | 3-7 |
| Depth Drilled | 13150' – 15113' | Surface RPM | 100 |
| | | Mud Motor RPM | 0 |
| | | Total RPM | 100 |
| Footage | 1963' | Average GPM | 750 |
| HOB | 28 | Average SPP | 2870 |

Ran with Geo-Pilot and Geo-Tap and 14-1/2" under-reamer.

BIT NO. NB No 9 SUMMARY Database Run #1300

| | | | |
|---------------|------------------------|---------------|-------|
| Bit Run | NB No 9 | TFA | 0.773 |
| Bit Type | 10-5/8" Hughes QD507FX | Average ROP | 68.4 |
| Jets | 7 x 12 | Average WOB | 10-18 |
| Depth Drilled | 15113' – 17173' | Surface RPM | 135 |
| | | Mud Motor RPM | 0 |
| | | Total RPM | 135 |
| Footage | 2060' | Average GPM | 755 |

| | | | |
|-----|------|-------------|------|
| HOB | 30.1 | Average SPP | 4120 |
|-----|------|-------------|------|

Ran with Geo-Pilot and Geo-Tap and 12-1/2" under-reamer.

BIT NO. NB No 10 SUMMARY Database Run #1400

| | | | |
|---------------|-----------------------|---------------|---------|
| Bit Run | NB No 10 | TFA | 0.442 |
| Bit Type | 8-1/2" Hughes HC408XC | Average ROP | 42.6 |
| Jets | 4 x 12 | Average WOB | 5-15 |
| Depth Drilled | 17173' - 18260' | Surface RPM | 100-150 |
| | | Mud Motor RPM | 0 |
| | | Total RPM | 100-150 |
| Footage | 1087' | Average GPM | 410 |
| HOB | 25.5 | Average SPP | 3320 |

Ran with Geo-Pilot and Geo-Tap and 9-7/8" under-reamer.

BIT NO. NB No 10 SUMMARY Database Run #1500

| | | | |
|---------------|-----------------------|---------------|-------|
| Bit Run | NB No 11 | TFA | 0.601 |
| Bit Type | 8-1/2" Hughes HC408XC | Average ROP | 28 |
| Jets | 4 x 14 | Average WOB | 4-10 |
| Depth Drilled | 18260' - 18360' | Surface RPM | 100 |
| | | Mud Motor RPM | 0 |
| | | Total RPM | 100 |
| Footage | 100' | Average GPM | 300 |
| HOB | 4.1 | Average SPP | 2070 |

No under-reamer.

3.4 HYDRAULICS SUMMARY (Macondo) MC 252 No.1 ST00BP00

HYDRAULICS BIT No. 4
Database Run #0500

Hydraulics ran at 9080' drilled with 10.6 ppg Rheliant Synthetic Base.

| | | | | | |
|-------------------|------|-----------|-------------------|----------|--------|
| Mud Weight | 10.6 | Ppg | Plastic Viscosity | 18 | cp |
| Yield Point | 28 | Lb/100ft2 | Gels | 25/34/36 | |
| Flow Rate | 1000 | Gpm | Pump Pressure | 3040 | Psi |
| Pump Hyd Powr | 1818 | Hp | Jet Velocity | 312 | Ft/sec |
| Jet Impact | 1756 | Lbs | Bit Hyd Pwr | 551 | Hp |
| Jet Impact / Area | 8.21 | Lbs/in2 | Bit Pwr / Area | 2.58 | Hpsi |
| Bit Press Loss | 923 | Psi | Bit / Pump Pwr | 30.33 | % |

HYDRAULICS BIT No. RRB4.1
Database Run #0600

No new footage drilled.

| | | | | | |
|-------------------|------|-----------|-------------------|----------|--------|
| Mud Weight | 10.6 | Ppg | Plastic Viscosity | 20 | cp |
| Yield Point | 29 | Lb/100ft2 | Gels | 25/31/32 | |
| Flow Rate | N/A | Gpm | Pump Pressure | N/A | Psi |
| Pump Hyd Powr | N/A | Hp | Jet Velocity | N/A | Ft/sec |
| Jet Impact | N/A | Lbs | Bit Hyd Pwr | N/A | Hp |
| Jet Impact / Area | N/A | Lbs/in2 | Bit Pwr / Area | N/A | Hpsi |
| Bit Press Loss | N/A | Psi | Bit / Pump Pwr | N/A | % |

HYDRAULICS BIT No. RRB4.2

Database Run #0700

Hydraulics ran at 11305' drilled with 11.1 ppg Rheliant Synthetic Base.

| | | | | | |
|-------------------|------|-----------|-------------------|----------|--------|
| Mud Weight | 11.1 | Ppg | Plastic Viscosity | 18 | cp |
| Yield Point | 29 | Lb/100ft2 | Gels | 24/26/28 | |
| Flow Rate | 1002 | Gpm | Pump Pressure | 3181 | Psi |
| Pump Hyd Powr | 1818 | Hp | Jet Velocity | 310 | Ft/sec |
| Jet Impact | 1756 | Lbs | Bit Hyd Pwr | 562 | Hp |
| Jet Impact / Area | 8.21 | Lbs/in2 | Bit Pwr / Area | 2.63 | Hpsi |
| Bit Press Loss | 949 | Psi | Bit / Pump Pwr | 30.14 | % |

HYDRAULICS BIT No. 5
Database Run #0800 (Clean out run)

Hydraulics ran at 11509' drilled with 11.2 ppg Rheliant Synthetic Base.

| | | | | | |
|-------------------|------|-----------|-------------------|----------|--------|
| Mud Weight | 11.2 | Ppg | Plastic Viscosity | 17 | cp |
| Yield Point | 16 | Lb/100ft2 | Gels | 18/22/24 | |
| Flow Rate | 820 | Gpm | Pump Pressure | 3878 | Psi |
| Pump Hyd Powr | 1839 | Hp | Jet Velocity | 510 | Ft/sec |
| Jet Impact | 2374 | Lbs | Bit Hyd Pwr | 562 | Hp |
| Jet Impact / Area | 6.01 | Lbs/in2 | Bit Pwr / Area | 2.63 | Hpsi |
| Bit Press Loss | 2534 | Psi | Bit / Pump Pwr | 65.3 | % |

HYDRAULICS BIT No. 6
Database Run #0900 (Clean out run)

Hydraulics ran at 11565' drilled with 11.2 ppg Rheliant Synthetic Base.

| | | | | | |
|-------------------|------|-----------|-------------------|----------|--------|
| Mud Weight | 11.3 | Ppg | Plastic Viscosity | 18 | cp |
| Yield Point | 14 | Lb/100ft2 | Gels | 18/22/24 | |
| Flow Rate | 520 | Gpm | Pump Pressure | 1405 | Psi |
| Pump Hyd Powr | 426 | Hp | Jet Velocity | 159 | Ft/sec |
| Jet Impact | 483 | Lbs | Bit Hyd Pwr | 426 | Hp |
| Jet Impact / Area | 2.82 | Lbs/in2 | Bit Pwr / Area | 2.82 | Hpsi |
| Bit Press Loss | 240 | Psi | Bit / Pump Pwr | 18.05 | % |

HYDRAULICS BIT No. 6.1

Database Run #1000

Hydraulics ran at 13000' drilled with 11.9 ppg Rheliant Synthetic Base.

| | | | | | |
|-------------------|------|-----------|-------------------|----------|--------|
| Mud Weight | 11.9 | Ppg | Plastic Viscosity | 22 | cp |
| Yield Point | 22 | Lb/100ft2 | Gels | 26/31/34 | |
| Flow Rate | 950 | Gpm | Pump Pressure | 3451 | Psi |
| Pump Hyd Powr | 1893 | Hp | Jet Velocity | 286 | Ft/sec |
| Jet Impact | 1662 | Lbs | Bit Hyd Pwr | 479 | Hp |
| Jet Impact / Area | 9.73 | Lbs/in2 | Bit Pwr / Area | 2.80 | Hpsi |
| Bit Press Loss | 874 | Psi | Bit / Pump Pwr | 25.32 | % |

3.4A HYDRAULICS SUMMARY (Macondo Bypass) MC 252 No.1 ST00BP01

HYDRAULICS BIT No. 7

Database Run #1100

Hydraulics ran at 12574' drilled with 12.1 ppg Rheliant Synthetic Base.

| | | | | | |
|-------------------|------|-----------|-------------------|----------|--------|
| Mud Weight | 12.1 | Ppg | Plastic Viscosity | 24 | cp |
| Yield Point | 19 | Lb/100ft2 | Gels | 23/29/31 | |
| Flow Rate | 923 | Gpm | Pump Pressure | 2961 | Psi |
| Pump Hyd Powr | 1595 | Hp | Jet Velocity | 281 | Ft/sec |
| Jet Impact | 1629 | Lbs | Bit Hyd Pwr | 461 | Hp |
| Jet Impact / Area | 9.53 | Lbs/in2 | Bit Pwr / Area | 2.70 | Hpsi |
| Bit Press Loss | 856 | Psi | Bit / Pump Pwr | 28.91 | % |

HYDRAULICS BIT No. 8

Database Run #1200

Hydraulics ran at 14705' drilled with 13.3 ppg Rheliant Synthetic Base.

| | | | | | |
|---------------|------|-----------|-------------------|----------|--------|
| Mud Weight | 13.3 | Ppg | Plastic Viscosity | 26 | cp |
| Yield Point | 24 | Lb/100ft2 | Gels | 25/35/35 | |
| Flow Rate | 780 | Gpm | Pump Pressure | 2815 | Psi |
| Pump Hyd Powr | 1279 | Hp | Jet Velocity | 323 | Ft/sec |

| | | | | | |
|-------------------|-------|---------|----------------|-------|------|
| Jet Impact | 1734 | Lbs | Bit Hyd Pwr | 384 | Hp |
| Jet Impact / Area | 14.71 | Lbs/in2 | Bit Pwr / Area | 4.78 | Hpsi |
| Bit Press Loss | 1240 | Psi | Bit / Pump Pwr | 44.05 | % |

HYDRAULICS BIT No. 9
Database Run #1300

Hydraulics ran at 16194' drilled with 13.8 ppg Rheliant Synthetic Base.

| | | | | | |
|-------------------|-------|-----------|-------------------|----------|--------|
| Mud Weight | 13.8 | Ppg | Plastic Viscosity | 26 | cp |
| Yield Point | 15 | Lb/100ft2 | Gels | 18/22/25 | |
| Flow Rate | 750 | Gpm | Pump Pressure | 4000 | Psi |
| Pump Hyd Powr | 1742 | Hp | Jet Velocity | 311 | Ft/sec |
| Jet Impact | 1667 | Lbs | Bit Hyd Pwr | 522 | Hp |
| Jet Impact / Area | 18.81 | Lbs/in2 | Bit Pwr / Area | 5.88 | Hpsi |
| Bit Press Loss | 1193 | Psi | Bit / Pump Pwr | 29.94 | % |

HYDRAULICS BIT No. 10
Database Run #1400

Hydraulics ran at 18020' drilled with 14.3 ppg Rheliant Synthetic Base.

| | | | | | |
|-------------------|------|-----------|-------------------|----------|--------|
| Mud Weight | 14.3 | Ppg | Plastic Viscosity | 29 | cp |
| Yield Point | 15 | Lb/100ft2 | Gels | 14/22/25 | |
| Flow Rate | 420 | Gpm | Pump Pressure | 3358 | Psi |
| Pump Hyd Powr | 821 | Hp | Jet Velocity | 174 | Ft/sec |
| Jet Impact | 540 | Lbs | Bit Hyd Pwr | 94 | Hp |
| Jet Impact / Area | 9.51 | Lbs/in2 | Bit Pwr / Area | 1.66 | Hpsi |
| Bit Press Loss | 386 | Psi | Bit / Pump Pwr | 11.5 | % |

HYDRAULICS BIT No. 11
Database Run #1500

Hydraulics ran at 18290' drilled with 14.0 ppg Rheliant Synthetic Base.

| | | | | | |
|------------|------|-----|-------------------|----|----|
| Mud Weight | 14.0 | Ppg | Plastic Viscosity | 26 | cp |
|------------|------|-----|-------------------|----|----|

| | | | | | |
|-------------------|------|-----------|----------------|----------|--------|
| Yield Point | 14 | Lb/100ft2 | Gels | 17/26/30 | |
| Flow Rate | 300 | Gpm | Pump Pressure | 2054 | Psi |
| Pump Hyd Powr | 367 | Hp | Jet Velocity | 163 | Ft/sec |
| Jet Impact | 363 | Lbs | Bit Hyd Pwr | 60 | Hp |
| Jet Impact / Area | 6.40 | Lbs/in2 | Bit Pwr / Area | 1.05 | Hpsi |
| Bit Press Loss | 334 | Psi | Bit / Pump Pwr | 16.26 | % |

3.5 MUD DATA

A listed summary of daily mud parameters provided by MI.

Note: Not using reports before #6 due to no mud on board rig.

| Date | 2/5/2010 | 2/6/2010 | 2/7/2010 | 2/8/2010 | 2/9/2010 | 2/10/2010 | 2/11/10 |
|---------------|----------|----------|----------|----------|----------|-----------|---------|
| Report Number | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Time | 20:00 | 20:45 | 22:00 | 20:45 | 19:30 | 21:00 | 21:00 |
| Sample From | PIT | PIT | PIT | PIT | PIT | PIT | PIT |

| | | | | | | | | |
|-------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Temp | deg. F | 75 | 75 | 80 | 75 | 75 | 65 | 58 |
| Depth (md) | ft | 9076 | 9076 | 9076 | 9076 | 9076 | 9076 | 9076 |
| Mud weight | lbs/gal | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 |
| Funnel Viscosity | s/qt | 66 | 67 | 68 | 66 | 68 | 91 | 91 |
| R600/R300 | | 39/25 | 39/25 | 38/24 | 38/24 | 39/25 | 58/39 | 64/46 |
| R200/R100 | | 20/12 | 20/13 | 19/12 | 19/13 | 20/13 | 32/23 | 39/30 |
| R6/R3 | | 5/4 | 5/4 | 5/4 | 6/5 | 6/5 | 12/11 | 18/17 |
| PV | cp | 14 | 14 | 14 | 14 | 14 | 19 | 18 |
| YP | lb/100ft | 11 | 11 | 10 | 10 | 11 | 20 | 28 |
| 10s/10m/30m Gel | lb/100ft | 13/23/25 | 13/23/25 | 13/22/24 | 13/22/23 | 13/23/24 | 21/26/28 | 25/34/36 |
| API Fluid Loss | cc/30 min | NA | NA | NA | NA | NA | NA | NA |
| HTHP FL | cc/30 min | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.8 |
| Cake API/HTHP | cc/30 min | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| UNC Solids | %Vol | 15 | 15 | 15 | 15 | 15 | 14 | 14 |
| Corr Solids | %Vol | 13.71 | 13.71 | 13.71 | 13.71 | 13.71 | 13.66 | 12.69 |
| Synthetic | %Vol | 81 | 81 | 69 | 69 | 69 | 56 | 58.5 |
| Oil/Water | %Vol | 19 | 19 | 16 | 16 | 16 | 30 | 27.5 |
| Alkal Mud (Pm) (PSM) PH | | 0.7 | 0.7 | 0.7 | 0.8 | 0.7 | 0.5 | 0.7 |
| Chlorides | mg/l | 33000 | 33000 | 33000 | 33000 | 33000 | 37000 | 36000 |
| Salt | %wt | 24.4 | 24.4 | 24.4 | 24.4 | 24.4 | 16.18 | 17 |
| Lime | lbs/bbls | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.65 | 0.91 |
| E-Stability | | 356 | 361 | 355 | 344 | 312 | 215 | 374 |
| PH | | NA | NA | NA | NA | NA | NA | NA |
| Pf/Mf | | NA | NA | NA | NA | NA | NA | NA |
| Hardness | mg/l | NA | NA | NA | NA | NA | NA | NA |

Continue Mud Reports

| | | | | | | |
|---------------|---------|---------|---------|---------|---------|---------|
| Date | 2/12/10 | 2/13/10 | 2/14/10 | 2/15/10 | 2/16/10 | 2/17/10 |
| Report Number | 13 | 14 | 15 | 16 | 17 | 18 |
| Time | 21:00 | 21:00 | 21:00 | 21:00 | 17:45 | 18:30 |
| Sample From | PIT | PIT | PIT | PIT | PIT | PIT |
| Temp deg. F | 55 | 50 | 65 | 54 | 55 | 60 |
| Depth (md) ft | 9086 | 9086 | 9086 | 9700 | 11380 | 12246 |

| | | | | | | | |
|--------------------------------|------------------|----------|----------|----------|----------|----------|----------|
| Mud weight | lbs/gal | 10.6 | 10.6 | 10.6 | 10.9 | 11.1 | 11.4 |
| Funnel Viscosity | s/qt | 86 | 86 | 89 | 88 | 83 | 87 |
| R600/R300 | | 53/38 | 69/49 | 67/50 | 63/54 | 65/47 | 65/47 |
| R200/R100 | | 32/26 | 42/32 | 43/34 | 38/30 | 37/29 | 36/28 |
| R6/R3 | | 17/16 | 20/29 | 21/20 | 19/21 | 17/16 | 16/15 |
| PV | cp | 15 | 20 | 20 | 16 | 18 | 18 |
| YP | lb/100ft | 23 | 29 | 29 | 29 | 29 | 29 |
| 10s/10m/30m Gel | lb/100ft | 21/26/29 | 25/31/32 | 26/35/36 | 24/26/28 | 20/22/26 | 19/19/22 |
| API Fluid Loss | cc/30 min | NA | NA | NA | NA | NA | NA |
| HTHP FL | cc/30 min | 3.2 | 3.2 | 3.0 | 1.4 | 1.3 | 1.6 |
| Cake API/HTHP | cc/30 min | 1 | 1 | 1 | 1 | 1 | 1 |
| UNC Solids | %Vol | 14.5 | 14.0 | 14.0 | 16.0 | 17 | 18 |
| Corr Solids | %Vol | 14.5 | 12.64 | 12.69 | 14.8 | 16.04 | 17.04 |
| Synthetic | %Vol | 60 | 59 | 59 | 58 | 57 | 56.5 |
| Oil/Water | %Vol | 25.5 | 27 | 27 | 27 | 26 | 25.5 |
| Alkal Mud (Pm) (PSM) PH | | 1.3 | 0.9 | 1.5 | 1.7 | 3.6 | 3.1 |
| Chlorides | mg/l | 35000 | 37000 | 35000 | 33000 | 30000 | 30000 |
| Salt | %wt | 17.68 | 17.66 | 17.66 | 16.57 | 15.3 | 15.55 |
| Lime | lbs/bbls | 1.69 | 1.17 | 1.95 | 2.21 | 4.68 | 4.03 |
| E-Stability | | 458 | 468 | 413 | 507 | 571 | 670 |
| PH | | NA | NA | NA | NA | NA | NA |
| Pf/Mf | | NA | NA | NA | NA | NA | NA |
| Hardness | mg/l | NA | NA | NA | NA | NA | NA |

Continue Mud Reports

| | | | | | | |
|----------------------|---------|---------|---------|---------|---------|---------|
| Date | 2/18/10 | 2/19/10 | 2/20/10 | 2/21/10 | 2/22/10 | 2/23/10 |
| Report Number | 19 | 20 | 21 | 22 | 23 | 24 |
| Time | 20:00 | 18:10 | 20:00 | 20:45 | 19:15 | 21:30 |

| | | | | | | | |
|--------------------------------|------------------|----------|----------|----------|----------|----------|----------|
| Sample From | | PIT | PIT | PIT | PIT | PIT | PIT |
| Temp | deg. F | 63 | 71 | 71 | 71 | 67 | 64 |
| Depth (md) | ft | 12350 | 12350 | 12350 | 12350 | 12350 | 12350 |
| Mud weight | lbs/gal | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 | 11.2 |
| Funnel Viscosity | s/qt | 75 | 75 | 75 | 75 | 78 | 76 |
| R600/R300 | | 64/37 | 56/35 | 57/36 | 56/35 | 55/34 | 49/32 |
| R200/R100 | | 28/20 | 26/18 | 26/18 | 24/16 | 23/16 | 24/17 |
| R6/R3 | | 12/11 | 11/10 | 11/10 | 10/9 | 10/9 | 9/8 |
| PV | cp | 27 | 21 | 21 | 21 | 21 | 17 |
| YP | lb/100ft | 10 | 14 | 15 | 14 | 13 | 15 |
| 10s/10m/30m Gel | lb/100ft | 17/23/27 | 17/23/27 | 18/23/26 | 16/21/24 | 17/22/25 | 16/21/23 |
| API Fluid Loss | cc/30 min | NA | NA | NA | NA | NA | NA |
| HTHP FL | cc/30 min | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| Cake API/HTHP | cc/30 min | 1 | 1 | 1 | 1 | 1 | 1 |
| UNC Solids | %Vol | 18 | 18 | 18 | 18 | 18 | 18 |
| Corr Solids | %Vol | 16.79 | 16.79 | 16.79 | 16.75 | 16.79 | 16.79 |
| Synthetic | %Vol | 58 | 58 | 58 | 58 | 58 | 58 |
| Oil/Water | %Vol | 24 | 24 | 24 | 24 | 24 | 24 |
| Alkal Mud (Pm) (PSM) PH | | 1.6 | 1.8 | 1.9 | 1.8 | 1.7 | 1.9 |
| Chlorides | mg/l | 33000 | 35000 | 34000 | 34000 | 33000 | 31000 |
| Salt | %wt | 17.71 | 18.58 | 18.15 | 18.15 | 17.71 | 16.81 |
| Lime | lbs/bbls | 2.08 | 2.34 | 2.47 | 2.34 | 2.21 | 2.47 |
| E-Stability | | 544 | 550 | 534 | 542 | 518 | 427 |
| PH | | NA | NA | NA | NA | NA | NA |
| Pf/Mf | | NA | NA | NA | NA | NA | NA |
| Hardness | mg/l | NA | NA | NA | NA | NA | NA |

Continue Mud Reports

| | | | | | | | |
|-------------------------|-----------|----------|----------|----------|----------|----------|----------|
| Date | | 2/24/10 | 2/25/10 | 2/26/10 | 2/27/10 | 2/28/10 | 3/1/10 |
| Report Number | | 25 | 26 | 27 | 28 | 29 | 30 |
| Time | | 20:30 | 21:30 | 20:30 | 20:30 | 20:30 | 20:30 |
| Sample From | | PIT | PIT | PIT | PIT | PIT | PIT |
| Temp | deg. F | 61 | 61 | 61 | 61 | 61 | 61 |
| Depth (md) | ft | 12350 | 12350 | 12350 | 12350 | 12350 | 11638 |
| Mud weight | lbs/gal | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 |
| Funnel Viscosity | s/qt | 77 | 77 | 77 | 77 | 77 | 83 |
| R600/R300 | | 52/35 | 52/35 | 52/35 | 52/35 | 52/35 | 50/33 |
| R200/R100 | | 25/18 | 25/18 | 25/18 | 25/18 | 25/18 | 26/17 |
| R6/R3 | | 10/9 | 10/9 | 10/9 | 10/9 | 10/9 | 9/8 |
| PV | cp | 17 | 17 | 17 | 17 | 17 | 17 |
| YP | lb/100ft | 18 | 18 | 18 | 18 | 18 | 16 |
| 10s/10m/30m Gel | lb/100ft | 16/22/26 | 16/22/26 | 16/22/26 | 16/22/26 | 16/22/26 | 17/24/26 |
| API Fluid Loss | cc/30 min | NA | NA | NA | NA | NA | NA |
| HTHP FL | cc/30 min | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.1 |
| Cake API/HTHP | cc/30 min | 1 | 1 | 1 | 1 | 1 | 1 |
| UNC Solids | %Vol | 18 | 18 | 18 | 18 | 18 | 18.5 |
| Corr Solids | %Vol | 16.83 | 16.83 | 16.83 | 16.83 | 16.83 | 17.54 |
| Synthetic | %Vol | 58 | 58 | 58 | 58 | 58 | 57 |
| Oil/Water | %Vol | 71/29 | 71/29 | 71/29 | 71/29 | 71/29 | 70/30 |
| Alkal Mud (Pm) (PSM) PH | | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 2.1 |
| Chlorides | mg/l | 31000 | 31000 | 31000 | 31000 | 31000 | 31000 |
| Salt | %wt | 16.81 | 16.81 | 16.81 | 16.81 | 16.81 | 16.53 |
| Lime | lbs/bbls | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.73 |
| E-Stability | | 504 | 504 | 504 | 504 | 504 | 504 |
| PH | | NA | NA | NA | NA | NA | NA |
| Pf/Mf | | NA | NA | NA | NA | NA | NA |
| Hardness | mg/l | NA | NA | NA | NA | NA | NA |

Continue Mud Reports

| | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|
| Date | 3/2/10 | 3/3/10 | 3/4/10 | 3/5/10 | 3/6/10 | 3/7/10 |
| Report Number | 31 | 32 | 33 | 34 | 35 | 36 |
| Time | 18:00 | 21:30 | 20:30 | 21:00 | 18:30 | 21:00 |
| Sample From | PIT | PIT | PIT | PIT | PIT | PIT |
| Temp deg. F | 58 | 60 | 65 | 75 | 60 | 55 |
| Depth (md) ft | 12350 | 12350 | 12350 | 12350 | 12350 | 12350 |
| Mud weight lbs/gal | 11.5 | 11.3 | 11.3 | 11.3 | 11.3 | 11.7 |
| Funnel Viscosity s/qt | 85 | 82 | 82 | 83 | 81 | 84 |
| R600/R300 | 52/36 | 49/31 | 50/32 | 50/32 | 50/33 | 60/41 |
| R200/R100 | 29/11 | 23/16 | 24/17 | 23/16 | 25/18 | 33/24 |
| R6/R3 | 12/11 | 10/9 | 9/8 | 9/8 | 11/10 | 15/14 |
| PV cp | 16 | 18 | 18 | 18 | 17 | 19 |
| YP lb/100ft | 20 | 13 | 14 | 14 | 16 | 22 |
| 10s/10m/30m Gel lb/100ft | 18/21/23 | 18/19/20 | 17/18/20 | 17/18/20 | 21/22/23 | 21/28/27 |
| API Fluid Loss cc/30 min | NA | NA | NA | NA | NA | NA |
| HTHP FL cc/30 min | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Cake API/HTHP cc/30 min | 1 | 1 | 1 | 1 | 1 | 1 |
| UNC Solids %Vol | 18 | 16 | 16 | 16 | 16.5 | 20 |
| Corr Solids %Vol | 18 | 14.96 | 14.96 | 14.96 | 15.54 | 19.03 |
| Synthetic %Vol | 57 | 60 | 60 | 60 | 60 | 60 |
| Oil/Water %Vol | 70/30 | 71/29 | 71/29 | 71/29 | 72/28 | 73/27 |
| Alkal Mud (Pm) (PSM) PH | 2.4 | 2.3 | 2.4 | 2.4 | 2.4 | 2.4 |
| Chlorides mg/l | 31000 | 29000 | 29000 | 29000 | 27000 | 27000 |
| Salt %wt | 16.25 | 15.9 | 15.9 | 15.9 | 15.24 | 16.11 |
| Lime lbs/bbls | 3.12 | 2.99 | 3.12 | 3.12 | 3.12 | 3.12 |
| E-Stability | 557 | 356 | 378 | 387 | 387 | 567 |
| PH | NA | NA | NA | NA | NA | NA |
| Pf/Mf | NA | NA | NA | NA | NA | NA |
| Hardness mg/l | NA | NA | NA | NA | NA | NA |

Continue Mud Reports

| | | | | | | | |
|-------------------------|-----------|----------|----------|----------|----------|----------|----------|
| Date | | 3/8/10 | 3/9/10 | 3/10/10 | 3/11/10 | 3/12/10 | 3/13/10 |
| Report Number | | 37 | 38 | 39 | 40 | 41 | 42 |
| Time | | 21:50 | 21:00 | 21:00 | 21:00 | 21:00 | 21:00 |
| Sample From | | PIT | PIT | PIT | PIT | PIT | PIT |
| Temp | deg. F | 58 | 70 | 75 | 68 | 60 | 60 |
| Depth (md) | ft | 13305 | 13305 | 13305 | 13305 | 13305 | 13305 |
| Mud weight | lbs/gal | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 |
| Funnel Viscosity | s/qt | 97 | 93 | 93 | 89 | 102 | 102 |
| R600/R300 | | 70/48 | 71/48 | 72/48 | 67/44 | 70/47 | 71/46 |
| R200/R100 | | 40/30 | 40/30 | 39/28 | 34/24 | 37/27 | 35/24 |
| R6/R3 | | 19/18 | 18/17 | 17/16 | 16/15 | 16/15 | 14/13 |
| PV | cp | 22 | 23 | 24 | 23 | 23 | 25 |
| YP | lb/100ft | 26 | 25 | 24 | 21 | 24 | 21 |
| 10s/10m/30m Gel | lb/100ft | 26/31/34 | 27/32/34 | 26/32/34 | 23/28/30 | 26/32/34 | 26/32/34 |
| API Fluid Loss | cc/30 min | NA | NA | NA | NA | NA | NA |
| HTHP FL | cc/30 min | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| Cake API/HTHP | cc/30 min | 1 | 1 | 1 | 1 | 1 | 1 |
| UNC Solids | %Vol | 19 | 20 | 20 | 20 | 20 | 21 |
| Corr Solids | %Vol | 18.12 | 19.12 | 19.17 | 19.04 | 19 | 19.99 |
| Synthetic | %Vol | 57 | 56 | 56 | 56 | 56 | 56 |
| Oil/Water | %Vol | 70/30 | 70/30 | 70/30 | 70/30 | 70/30 | 70/30 |
| Alkal Mud (Pm) (PSM) PH | | 2.8 | 2.8 | 2.5 | 2.2 | 2.7 | 2.2 |
| Chlorides | mg/l | 28000 | 26000 | 26000 | 27000 | 28000 | 28000 |
| Salt | %wt | 14.02 | 14.5 | 14.5 | 14.97 | 15.44 | 15.44 |
| Lime | lbs/bbls | 3.64 | 3.64 | 3.25 | 2.86 | 3.51 | 2.86 |
| E-Stability | | 456 | 397 | 398 | 376 | 540 | 285 |
| PH | | NA | NA | NA | NA | NA | NA |
| Pf/Mf | | NA | NA | NA | NA | NA | NA |
| Hardness | mg/l | NA | NA | NA | NA | NA | NA |

Continue Mud Reports

| | | | | | | | |
|-------------------------|-----------|----------|----------|----------|----------|----------|----------|
| Date | | 3/14/10 | 3/15/10 | 3/16/10 | 3/17/10 | 3/18/10 | 3/19/10 |
| Report Number | | 43 | 44 | 45 | 46 | 47 | 48 |
| Time | | 21:00 | 20:00 | 17:30 | 18:45 | 18:45 | 18:30 |
| Sample From | | PIT | PIT | PIT | PIT | PIT | PIT |
| Temp | deg. F | 55 | 60 | 65 | 60 | 60 | 65 |
| Depth (md) | ft | 13305 | 13305 | 13305 | 11554 | 12691 | 13150 |
| Mud weight | lbs/gal | 12.3 | 12.3 | 12.3 | 12.1 | 12.2 | 12.4 |
| Funnel Viscosity | s/qt | 96 | 92 | 97 | 91 | 94 | 95 |
| R600/R300 | | 67/43 | 70/46 | 74/48 | 60/38 | 69/46 | 71/45 |
| R200/R100 | | 32/22 | 36/26 | 37/25 | 26/17 | 35/25 | 32/23 |
| R6/R3 | | 14/13 | 16/15 | 14/13 | 9/8 | 14/13 | 15/14 |
| PV | cp | 24 | 24 | 26 | 22 | 23 | 26 |
| YP | lb/100ft | 19 | 22 | 22 | 16 | 23 | 19 |
| 10s/10m/30m Gel | lb/100ft | 23/29/31 | 25/34/36 | 21/32/35 | 10/20/24 | 23/31/35 | 23/26/30 |
| API Fluid Loss | cc/30 min | NA | NA | NA | NA | NA | NA |
| HTHP FL | cc/30 min | 2.2 | 1.4 | 1.4 | 1.6 | 1.6 | 1.2 |
| Cake API/HTHP | cc/30 min | 1 | 1 | 1 | 1 | 1 | 1 |
| UNC Solids | %Vol | 22 | 21 | 22 | 20.5 | 20 | 22.5 |
| Corr Solids | %Vol | 21.07 | 20 | 21.04 | 19.54 | 19.14 | 21.41 |
| Synthetic | %Vol | 55 | 54.5 | 53.5 | 55 | 56 | 54.5 |
| Oil/Water | %Vol | 70/30 | 69/31 | 69/31 | 69/31 | 70/30 | 70/30 |
| Alkal Mud (Pm) (PSM) PH | | 1.8 | 1.5 | 2.1 | 2 | 1.3 | 1.5 |
| Chlorides | mg/l | 28000 | 28000 | 30000 | 27000 | 28000 | 30000 |
| Salt | %wt | 16 | 15.17 | 16.08 | 14.71 | 15.44 | 16.95 |
| Lime | lbs/bbls | 2.34 | 1.95 | 2.73 | 1.3 | 1.69 | 1.95 |
| E-Stability | | 539 | 483 | 449 | 397 | 529 | 472 |
| PH | | NA | NA | NA | NA | NA | NA |
| Pf/Mf | | NA | NA | NA | NA | NA | NA |
| Hardness | mg/l | NA | NA | NA | NA | NA | NA |

3.5A MUD DATA (Macondo Bypass) MC 252 No.1 ST00BP01

| | | | | | | | |
|-------------------------|-----------|----------|----------|----------|----------|----------|----------|
| Date | | 3/20/10 | 3/21/10 | 3/22/10 | 3/23/10 | 3/24/10 | 3/25/10 |
| Report Number | | 49 | 50 | 51 | 52 | 53 | 54 |
| Time | | 17:30 | 18:30 | 18:00 | 21:00 | 19:00 | 22:00 |
| Sample From | | PIT | PIT | PIT | PIT | PIT | PIT |
| Temp | deg. F | 70 | 70 | 58 | 53 | 58 | 70 |
| Depth (md) | ft | 13150 | 13150 | 13255 | 14698 | 15113 | 15113 |
| Mud weight | lbs/gal | 12.4 | 12.4 | 12.8 | 13.3 | 13.4 | 13.4 |
| Funnel Viscosity | s/qt | 94 | 94 | 98 | 97 | 93 | 97 |
| R600/R300 | | 69/44 | 67/42 | 70/45 | 76/54 | 70/44 | 68/42 |
| R200/R100 | | 34/24 | 33/22 | 35/25 | 40/29 | 34/24 | 34/29 |
| R6/R3 | | 14/13 | 14/13 | 15/14 | 16/15 | 14/13 | 14/13 |
| PV | cp | 25 | 25 | 25 | 26 | 26 | 26 |
| YP | lb/100ft | 19 | 17 | 20 | 24 | 18 | 16 |
| 10s/10m/30m Gel | lb/100ft | 21/25/30 | 21/25/29 | 22/30/32 | 25/35/35 | 22/31/35 | 22/30/34 |
| API Fluid Loss | cc/30 min | NA | NA | NA | NA | NA | NA |
| HTHP FL | cc/30 min | 1.2 | 1.2 | 1.0 | 1.6 | 1.8 | 1.8 |
| Cake API/HTHP | cc/30 min | 1 | 1 | 1 | 1 | 1 | 1 |
| UNC Solids | %Vol | 22.5 | 22.5 | 23 | 25 | 25 | 25 |
| Corr Solids | %Vol | 21.41 | 22.5 | 22.07 | 24.14 | 24.1 | 23.49 |
| Synthetic | %Vol | 54.5 | 54.5 | 53.5 | 52.5 | 53 | 53 |
| Oil/Water | %Vol | 70/30 | 70/30 | 69/31 | 70/30 | 71/29 | 71/29 |
| Alkal Mud (Pm) (PSM) PH | | 1.4 | 1.4 | 2 | 2.5 | 2.2 | 2.5 |
| Chlorides | mg/l | 30000 | 30000 | 29000 | 27000 | 28000 | 28000 |
| Salt | %wt | 16.95 | 16.95 | 16.19 | 15.81 | 16.61 | 16.61 |
| Lime | lbs/bbls | 1.82 | 1.82 | 2.6 | 3.25 | 2.86 | 3.25 |
| E-Stability | | 437 | 437 | 490 | 484 | 354 | 395 |
| PH | | NA | NA | NA | NA | NA | NA |
| Pf/Mf | | NA | NA | NA | NA | NA | NA |
| Hardness | mg/l | NA | NA | NA | NA | NA | NA |

Continue Mud Reports

| | | | | | | | |
|-------------------------|-----------|----------|----------|----------|----------|----------|----------|
| Date | | 3/26/10 | 3/27/10 | 3/28/10 | 3/29/10 | 3/30/10 | 3/31/10 |
| Report Number | | 55 | 56 | 57 | 58 | 59 | 60 |
| Time | | 22:00 | 0:00 | 00:00 | 00:00 | 00:00 | 00:00 |
| Sample From | | PIT | PIT | PIT | PIT | PIT | PIT |
| Temp | deg. F | 73 | 55 | 54 | 53 | 72 | 70 |
| Depth (md) | ft | 15113 | 15123 | 16194 | 17172 | 17173 | 17173 |
| Mud weight | lbs/gal | 13.4 | 13.6 | 13.8 | 13.9 | 14.1 | 14.1 |
| Funnel Viscosity | s/qt | 97 | 97 | 97 | 104 | 102 | 99 |
| R600/R300 | | 67/42 | 62/39 | 67/41 | 61/39 | 61/39 | 60/38 |
| R200/R100 | | 35/28 | 29/20 | 30/22 | 31/22 | 30/20 | 30/20 |
| R6/R3 | | 14/12 | 12/10 | 12/10 | 12/11 | 11/10 | 11/10 |
| PV | cp | 25 | 23 | 26 | 22 | 22 | 22 |
| YP | lb/100ft | 17 | 16 | 15 | 17 | 17 | 16 |
| 10s/10m/30m Gel | lb/100ft | 24/31/32 | 18/22/30 | 18/22/25 | 19/23/24 | 17/26/32 | 16/25/28 |
| API Fluid Loss | cc/30 min | NA | NA | NA | NA | NA | NA |
| HTHP FL | cc/30 min | 1.8 | 2.0 | 2.4 | 2.0 | 2.0 | 2.0 |
| Cake API/HTHP | cc/30 min | 1 | 1 | 1 | 1 | 1 | 1 |
| UNC Solids | %Vol | 25 | 26 | 26 | 26.5 | 27.5 | 27.5 |
| Corr Solids | %Vol | 23.49 | 25.07 | 25.07 | 25.53 | 26.57 | 26.43 |
| Synthetic | %Vol | 53 | 52 | 52 | 53 | 52.5 | 52.5 |
| Oil/Water | %Vol | 71/29 | 70/30 | 70/30 | 72/28 | 72/28 | 72/28 |
| Alkal Mud (Pm) (PSM) PH | | 2.1 | 1.9 | 1 | 1.4 | 1.5 | 1.4 |
| Chlorides | mg/l | 29000 | 26000 | 29000 | 30000 | 1.5 | 29000 |
| Salt | %wt | 17.1 | 15.61 | 17.1 | 18.63 | 18.49 | 18.49 |
| Lime | lbs/bbls | 2.73 | 2.47 | 1.3 | 1.82 | 1.95 | 1.42 |
| E-Stability | | 385 | 320 | 365 | 520 | 441 | 411 |
| PH | | NA | NA | NA | NA | NA | NA |
| Pf/Mf | | NA | NA | NA | NA | NA | NA |
| Hardness | mg/l | NA | NA | NA | NA | NA | NA |

Continue Mud Reports

| | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|----------|
| Date | 4/1/10 | 4/2/10 | 4/3/10 | 4/4/10 | 4/5/10 | 4/6/10 |
| Report Number | 61 | 62 | 63 | 64 | 65 | 66 |
| Time | 00:00 | 00:00 | 00:00 | 00:00 | 00:00 | 00:00 |
| Sample From | PIT | PIT | PIT | PIT | PIT | PIT |
| Temp deg. F | 76 | 58 | 55 | 56 | 0 | 0 |
| Depth (md) ft | 17173 | 17647 | 17899 | 18260 | 18260 | 18260 |
| Mud weight lbs/gal | 14.1 | 14.3 | 14.3 | 14.4 | 14.0 | 14.0 |
| Funnel Viscosity s/qt | 101 | 110 | 103 | 119 | 88 | 87 |
| R600/R300 | 63/40 | 68/40 | 73/44 | 77/47 | 60/37 | 60/37 |
| R200/R100 | 31/21 | 30/19 | 33/22 | 36/24 | 27/18 | 28/18 |
| R6/R3 | 12/11 | 7/6 | 8/7 | 10/9 | 8/7 | 8/7 |
| PV cp | 23 | 28 | 29 | 30 | 23 | 23 |
| YP lb/100ft | 17 | 12 | 15 | 17 | 14 | 14 |
| 10s/10m/30m Gel lb/100ft | 17/26/29 | 12/23/26 | 14/22/25 | 16/26/28 | 15/24/27 | 16/24/28 |
| API Fluid Loss cc/30 min | NA | NA | NA | NA | NA | NA |
| HTHP FL cc/30 min | 2.0 | 1.8 | 1.8 | 1.4 | 3.0 | 2.8 |
| Cake API/HTHP cc/30 min | 1 | 1 | 1 | 1 | 1 | 1 |
| UNC Solids %Vol | 28 | 28 | 29 | 28.5 | 27 | 27 |
| Corr Solids %Vol | 26.97 | 27.14 | 28.01 | 27.51 | 26.05 | 26.06 |
| Synthetic %Vol | 52 | 52 | 51 | 51.5 | 54 | 53 |
| Oil/Water %Vol | 72/28 | 72/28 | 72/28 | 72/28 | 74/26 | 73/27 |
| Alkal Mud (Pm) (PSM) PH | 1.2 | 1.7 | 1.8 | 1.8 | 1.4 | 1.4 |
| Chlorides mg/l | 28000 | 27000 | 27000 | 27000 | 26000 | 26000 |
| Salt %wt | 17.97 | 17.44 | 17.44 | 17.44 | 17.64 | 16.91 |
| Lime lbs/bbls | 1.56 | 2.21 | 2.34 | 2.34 | 1.82 | 1.82 |
| E-Stability | 401 | 323 | 276 | 265 | 266 | 288 |
| PH | NA | NA | NA | NA | NA | NA |
| Pf/Mf | NA | NA | NA | NA | NA | NA |
| Hardness mg/l | NA | NA | NA | NA | NA | NA |

Continue Mud Reports

| | | | | | | |
|--------------------------|----------|----------|--------|----------|----------|----------|
| Date | 4/7/10 | 4/8/10 | 4/9/10 | 4/10/10 | 4/11/10 | 4/12/10 |
| Report Number | 67 | 68 | 69 | 70 | 71 | 72 |
| Time | 00:00 | 00:00 | 00:00 | 00:00 | 00:00 | 20:00 |
| Sample From | PIT | PIT | PIT | PIT | PIT | PIT |
| Temp deg. F | 52 | NA | 52 | NA | NA | NA |
| Depth (md) ft | 18260 | 18260 | 18260 | 18360 | 18360 | 18360 |
| Mud weight lbs/gal | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 |
| Funnel Viscosity s/qt | 96 | 94 | 98 | 98 | 93 | 91 |
| R600/R300 | 68/41 | 70/42 | 68/41 | 66/40 | 62/37 | 61/37 |
| R200/R100 | 31/20 | 32/20 | 31/20 | 30/19 | 27/17 | 27/19 |
| R6/R3 | 8/7 | 8/7 | 10/9 | 9/8 | 8/7 | 8/7 |
| PV cp | 27 | 28 | 27 | 26 | 25 | 24 |
| YP lb/100ft | 14 | 14 | 14 | 14 | 12 | 13 |
| 10s/10m/30m Gel lb/100ft | 14/23/25 | 16/19/21 | | 17/26/30 | 13/23/28 | 12/24/29 |
| API Fluid Loss cc/30 min | NA | NA | NA | NA | NA | NA |
| HTHP FL cc/30 min | 2.8 | 2.8 | 2.2 | 2.4 | 2.4 | 2.4 |
| Cake API/HTHP cc/30 min | 1 | 1 | 1 | 1 | 1 | 1 |
| UNC Solids %Vol | 28 | 27 | 27.5 | 27.5 | 27.5 | 27.5 |
| Corr Solids %Vol | 27.17 | 26.06 | 26.67 | 26.67 | 26.56 | 27.56 |
| Synthetic %Vol | 52 | 53 | 52.5 | 52.5 | 52.5 | 52.2 |
| Oil/Water %Vol | 72/28 | 73/27 | 72/28 | 72/28 | 72/28 | 72/28 |
| Alkal Mud (Pm) (PSM) PH | 1.4 | 1.3 | 1.4 | 1.3 | 1.3 | 1.3 |
| Chlorides mg/l | 26000 | 25000 | 26000 | 26000 | 26000 | 26000 |
| Salt %wt | 16.91 | 16.36 | 16.91 | 16.91 | 16.91 | 16.91 |
| Lime lbs/bbls | 1.82 | 1.69 | 1.82 | 1.69 | 1.82 | 1.69 |
| E-Stability | 204 | 205 | 438 | 323 | 333 | 332 |
| PH | NA | NA | NA | NA | NA | NA |
| Pf/Mf | NA | NA | NA | NA | NA | NA |
| Hardness mg/l | NA | NA | NA | NA | NA | NA |

Continue Mud Reports

| | | | | | | | |
|-------------------------|-----------|----------|----------|----------|----------|----------|----------|
| Date | | 4/13/10 | 4/14/10 | 4/15/10 | 4/16/10 | 4/17/10 | 4/18/10 |
| Report Number | | 73 | 74 | 75 | 76 | 77 | 78 |
| Time | | 22:00 | 23:00 | 00:00 | 00:00 | 00:00 | 00:00 |
| Sample From | | PIT | PIT | PIT | PIT | PIT | PIT |
| Temp | deg. F | NA | NA | NA | NA | NA | NA |
| Depth (md) | ft | 18360 | 18360 | 18360 | 18360 | 18360 | 18360 |
| Mud weight | lbs/gal | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 |
| Funnel Viscosity | s/qt | 92 | 90 | 93 | 93 | 93 | 92 |
| R600/R300 | | 61/37 | 62/37 | 71/43 | 71/43 | 72/42 | 71/42 |
| R200/R100 | | 28/19 | 26/19 | 33/22 | 33/22 | 33/22 | 33/21 |
| R6/R3 | | 9/8 | 9/7 | 9/8 | 9/8 | 10/9 | 10/9 |
| PV | cp | 24 | 25 | 28 | 28 | 30 | 29 |
| YP | lb/100ft | 13 | 12 | 15 | 15 | 12 | 13 |
| 10s/10m/30m Gel | lb/100ft | 11/23/28 | 12/23/27 | 15/24/29 | 15/24/29 | 15/23/30 | 15/25/29 |
| API Fluid Loss | cc/30 min | NA | NA | NA | NA | NA | NA |
| HTHP FL | cc/30 min | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| Cake API/HTHP | cc/30 min | 1 | 1 | 1 | 1 | 1 | 1 |
| UNC Solids | %Vol | 27.5 | 27.5 | 27 | 27 | 27 | 27 |
| Corr Solids | %Vol | 27.5 | 27.5 | 26.06 | 26.06 | 26.06 | 26.06 |
| Synthetic | %Vol | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 |
| Oil/Water | %Vol | 72/28 | 73/28 | 72/28 | 72/28 | 72/28 | 72/28 |
| Alkal Mud (Pm) (PSM) PH | | 1.3 | 1.3 | 1.1 | 1.1 | 0.8 | 0.8 |
| Chlorides | mg/l | 26000 | 26000 | 26000 | 26000 | 26000 | 26000 |
| Salt | %wt | 16.91 | 16.91 | 16.56 | 16.56 | 16.56 | 16.56 |
| Lime | lbs/bbls | 1.69 | 1.69 | 1.43 | 1.43 | 1.04 | 1.04 |
| E-Stability | | 330 | 324 | 243 | 243 | 225 | 220 |
| PH | | NA | NA | NA | NA | NA | NA |
| Pf/Mf | | NA | NA | NA | NA | NA | NA |
| Hardness | mg/l | NA | NA | NA | NA | NA | NA |

3.6 SURVEY TABLE

Operator: BP Exploration & Production

Well: OCSG-32306 ST00BP00

Location: Mississippi Canyon Block 252

Rig: Deepwater Horizon

Note: Survey information provided by Schlumberger from 5067' md to 8917' md.

| MEASURED DEPTH (ft) | TVD DEPTH (ft) | INCLINATION (deg) | AZIMUTH (deg) |
|------------------------|-------------------|----------------------|------------------|
| 5067.00 | 5067.00 | 0.00 | 0.00 |
| 5428.00 | 5427.92 | 2.10 | 104.68 |
| 5526.00 | 5525.86 | 1.96 | 101.40 |
| 5621.00 | 5620.81 | 1.65 | 97.18 |
| 5719.00 | 5718.78 | 1.34 | 96.79 |
| 5815.00 | 5814.75 | 1.13 | 91.44 |
| 5908.00 | 5907.74 | 0.94 | 93.43 |
| 6004.00 | 6003.73 | 0.86 | 92.56 |
| 6099.00 | 6098.72 | 0.72 | 89.32 |
| 6195.00 | 6194.71 | 0.61 | 86.62 |
| 6304.00 | 6303.71 | 0.49 | 83.25 |
| 6401.00 | 6400.71 | 0.09 | 82.22 |
| 6495.00 | 6494.71 | 0.03 | 119.73 |
| 6590.00 | 6589.71 | 0.03 | 211.60 |
| 6685.03 | 6684.73 | 0.03 | 318.07 |
| 6780.00 | 6779.71 | 0.09 | 42.64 |
| 6873.00 | 6872.71 | 0.10 | 268.01 |
| 6971.00 | 6970.70 | 0.12 | 300.37 |
| 7057.00 | 7056.70 | 0.03 | 100.60 |
| 7159.00 | 7158.70 | 0.04 | 240.74 |
| 7727.00 | 7726.70 | 0.00 | 359.77 |
| 7821.00 | 7820.70 | 0.03 | 335.23 |
| 7921.00 | 7921.70 | 0.12 | 180.97 |
| 8096.00 | 8095.70 | 0.94 | 17.01 |
| 8192.00 | 8191.69 | 0.03 | 16.08 |
| MEASURED DEPTH (ft) | TVD DEPTH (ft) | INCLINATION (deg) | AZIMUTH (deg) |

Continued Survey Table (Macondo) MC 252 No.1 ST00BP00

| MEASURED DEPTH (ft) | TVD DEPTH (ft) | INCLINATION (deg) | AZIMUTH (deg) |
|------------------------|-------------------|----------------------|------------------|
| 8289.00 | 8288.69 | 0.23 | 225.82 |
| 8382.00 | 8381.69 | 0.06 | 34.14 |
| 8477.00 | 8476.69 | 0.06 | 324.47 |
| 8573.00 | 8572.69 | 0.09 | 349.66 |
| 8447.00 | 8666.69 | 0.09 | 314.63 |
| 8762.00 | 8761.69 | 0.06 | 86.68 |
| 8845.00 | 8853.69 | 0.09 | 9.44 |
| 8917.00 | 8916.69 | 0.06 | 46.61 |
| 9187.00 | 9186.65 | 2.47 | 106.30 |
| 9327.00 | 9326.60 | 0.44 | 96.00 |
| 9463.00 | 9462.59 | 0.38 | 90.85 |
| 9603.00 | 9602.59 | 0.45 | 125.67 |
| 9736.00 | 9735.59 | 0.38 | 153.99 |
| 9874.00 | 9873.58 | 0.39 | 141.03 |
| 10004.00 | 10003.58 | 0.25 | 157.87 |
| 10150.00 | 10149.58 | 0.36 | 162.34 |
| 10285.00 | 10284.58 | 0.44 | 184.50 |
| 10424.00 | 10423.57 | 0.47 | 182.50 |
| 10563.00 | 10562.57 | 0.47 | 210.58 |
| 10701.00 | 10700.56 | 0.47 | 205.53 |
| 10839.00 | 10838.56 | 0.47 | 208.48 |
| 10977.00 | 10976.55 | 0.56 | 204.08 |
| 11114.00 | 11113.54 | 0.67 | 205.50 |
| 11252.00 | 11251.54 | 0.61 | 216.24 |
| 11390.00 | 11389.53 | 0.50 | 220.53 |
| 11528.00 | 11527.52 | 0.45 | 191.93 |
| 11665.00 | 11664.52 | 0.38 | 185.19 |
| 11800.00 | 11799.52 | 0.44 | 201.47 |
| 11941.00 | 11940.51 | 0.45 | 186.33 |
| 12076.00 | 12075.51 | 0.41 | 169.16 |
| 12213.00 | 12212.51 | 0.45 | 175.18 |
| 12349.00 | 12348.50 | 0.62 | 153.80 |
| 12487.00 | 12486.49 | 0.69 | 148.09 |

| | | | |
|-------------------------------|--------------------------|-----------------------------|-------------------------|
| 12620.00 | 12619.48 | 0.51 | 148.32 |
| 12757.00 | 12756.47 | 0.84 | 153.84 |
| | | | |
| MEASURED DEPTH (ft) | TVD DEPTH (ft) | INCLINATION (deg) | AZIMUTH (deg) |

Continued Survey Table (Macondo) MC 252 No.1 ST00BP00

| | | | |
|-------------------------------|--------------------------|-----------------------------|-------------------------|
| MEASURED DEPTH (ft) | TVD DEPTH (ft) | INCLINATION (deg) | AZIMUTH (deg) |
| | | | |
| 12893.00 | 12892.46 | 0.70 | 157.23 |
| 13032.00 | 13031.46 | 0.39 | 183.35 |
| 13164.00 | 13163.45 | 0.50 | 187.57 |
| | | | |
| MEASURED DEPTH (ft) | TVD DEPTH (ft) | INCLINATION (deg) | AZIMUTH (deg) |

3.6A Continued Survey Table (Macondo Bypass) MC 252 No.1 ST00BP01

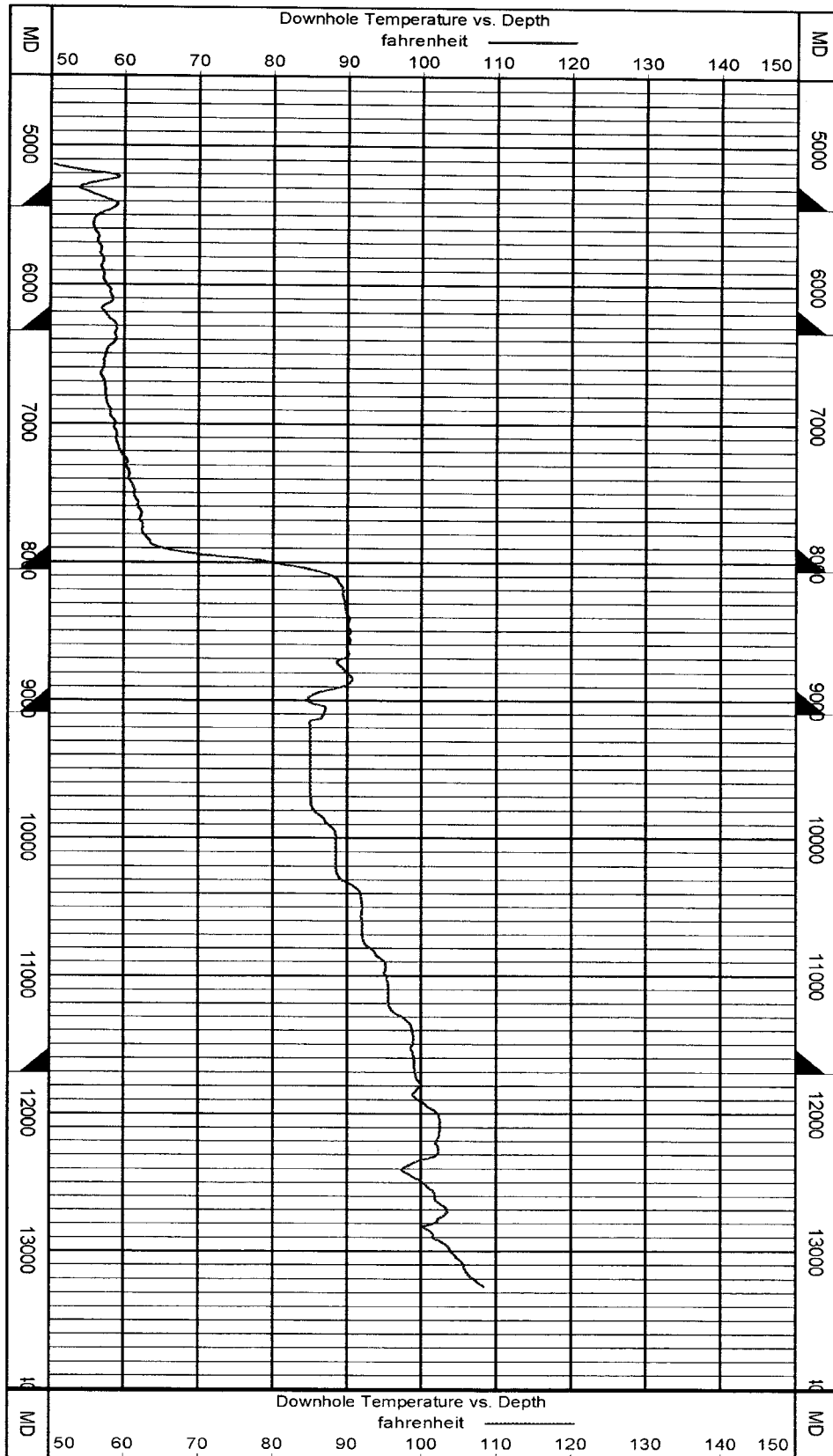
| MEASURED DEPTH (ft) | TVD DEPTH (ft) | INCLINATION (deg) | AZIMUTH (deg) |
|------------------------|-------------------|----------------------|------------------|
| 11796.00 | 11795.45 | 3.15 | 267.85 |
| 11934.00 | 11933.04 | 5.62 | 264.12 |
| 12070.00 | 12067.89 | 9.13 | 264.29 |
| 12209.00 | 12204.97 | 9.94 | 262.27 |
| 12347.00 | 12341.04 | 9.22 | 262.55 |
| 12484.00 | 12476.39 | 8.62 | 263.43 |
| 12622.00 | 12613.06 | 7.25 | 261.10 |
| 12760.00 | 12750.14 | 5.99 | 261.62 |
| 12896.00 | 12885.58 | 4.33 | 261.99 |
| 13034.00 | 13023.40 | 1.29 | 264.67 |
| 13112.00 | 13101.39 | 0.67 | 257.80 |
| 13172.00 | 13161.39 | 0.62 | 261.38 |
| 13310.00 | 13299.38 | 0.89 | 272.39 |
| 13448.00 | 13437.36 | 0.64 | 276.61 |
| 13585.00 | 13574.35 | 0.62 | 274.81 |
| 13721.00 | 13710.35 | 0.68 | 267.45 |
| 13859.00 | 13848.34 | 0.69 | 273.76 |
| 13998.00 | 13987.32 | 0.80 | 265.26 |
| 14133.00 | 14122.31 | 0.56 | 274.17 |
| 14273.00 | 14262.30 | 0.80 | 262.37 |
| 14549.00 | 14538.29 | 0.47 | 291.13 |
| 14684.00 | 14673.28 | 0.31 | 268.69 |
| 14816.00 | 14805.28 | 0.66 | 235.39 |
| 14950.00 | 14939.27 | 0.70 | 230.44 |
| 15081.00 | 15070.26 | 0.64 | 241.45 |
| 15264.00 | 15253.25 | 0.67 | 214.46 |

| 15406.00 | 15395.24 | 0.74 | 228.41 |
|------------------------|-------------------|----------------------|------------------|
| 15540.00 | 15529.23 | 0.69 | 223.80 |
| 15673.00 | 15662.22 | 0.57 | 242.79 |
| 15805.00 | 15794.21 | 0.59 | 234.90 |
| | | | |
| 15939.00 | 15928.21 | 0.75 | 246.89 |
| 16072.00 | 16061.19 | 0.87 | 240.57 |
| 16204.00 | 16193.18 | 0.70 | 235.12 |
| 16333.00 | 16322.17 | 0.68 | 229.09 |
| 16470.00 | 16459.16 | 0.78 | 235.12 |
| | | | |
| MEASURED DEPTH (ft) | TVD DEPTH (ft) | INCLINATION (deg) | AZIMUTH (deg) |

Continued Survey Table (Macondo Bypass) MC 252 No.1 ST00BP01

| MEASURED DEPTH (ft) | TVD DEPTH (ft) | INCLINATION (deg) | AZIMUTH (deg) |
|------------------------|-------------------|----------------------|------------------|
| | | | |
| 16604.00 | 16593.14 | 0.87 | 222.16 |
| 16729.00 | 16718.13 | 0.78 | 224.22 |
| 16870.00 | 16859.12 | 0.81 | 233.89 |
| 17004.00 | 16993.11 | 0.67 | 206.18 |
| 17136.00 | 17125.09 | 0.92 | 219.94 |
| | | | |
| 17318.00 | 17307.08 | 0.64 | 175.50 |
| 17455.00 | 17444.07 | 0.36 | 187.90 |
| 17592.00 | 17581.07 | 0.31 | 157.69 |
| 17728.00 | 17717.07 | 0.38 | 70.52 |
| 17867.00 | 17856.07 | 0.38 | 32.17 |
| | | | |
| 18003.00 | 17992.06 | 0.62 | 19.34 |
| 18138.00 | 18127.05 | 0.74 | 35.87 |
| 18348.00 | 18337.04 | 0.38 | 38.20 |
| 18360.00 | 18349.04 | 0.38 | 38.20 |
| | | | |
| MEASURED DEPTH (ft) | TVD DEPTH (ft) | INCLINATION (deg) | AZIMUTH (deg) |

3.7 Depth v Downhole Temperature (Macondo) MC 252 No.1 ST00BP00



3.7A Depth v Downhole Temperature (Macondo Bypass) MC 252 No.1 ST00BP01

