

From: Nathaniel Chaisson
Sent: Sun Apr 18 09:57:28 2010
To: Jesse Gagliano
Subject: BP / Horizon / Update
Importance: Normal
Attachments: revised 9.875 x 7 in Prod. Csg Foam Cement Job Procedure.doc

Jesse,

We are currently running casing, and the projected cement job time is tomorrow at noon. We had a meeting yesterday to discuss the job, and I have attached the job procedure which should be final. There is an estimated 3 bbls between the unit and the rig floor, so keep that in mind when reading through the procedure. The BP engineer, Brian, is considering going with the longer pump time. He will make a decision once we have 24 hr strengths for this slurry. Please copy me on the email when you send him those results. If anything changes, will let you know.

Thanks.

EXHIBIT # <u>111</u>
WIT: _____

HAL_0125561

9.875" x 7" CASING JOB PROCEDURE

M.C. 252 Well #1

VER.1

1. ONCE LANDED OUT WITH 9.875" x 7" CASING RIG UP HALLIBURTON AND NITROGEN LINES TO CEMENT STAND.
2. WITH RIG PUMPS, PUMP AND CIRCULATE 111 BBLs @ 1 BPM. NEXT, CIRCULATE 150 BBLs @ 4 BPM AS PER CO.MAN.
3. WHILE CIRCULATING, NITROGEN UNIT SHOULD BE COOLED DOWN, AND NITROGEN LINES WILL BE TESTED TO 5000 PSI.
4. ONCE CIRCULATING IS COMPLETE, CLOSE TOP TIW AND PUT 500 PSI ON TOP DRIVE. MAKE SURE THAT BOTTOM TIW VALVE IS OPEN.
5. WITH HALLIBURTON UNIT PUMP 7 BBLs OF 6.7 PPG BASE OIL @ 4 BPM.
6. WITH HALLIBURTON UNIT PUMP 10 BBLs OF 14.3 PPG TUNED SPACER @ 4 BPM.
7. CLOSE THE 2" LO-TORC VALVE ON THE CEMENT STAND. MAKE SURE RIG FLOOR IS CLEAR OF ALL PERSONAL. TEST CEMENT LINES TO 5000 PSI.
8. ONCE ALL TEST ARE COMPLETE MAKE SURE PRESSURE HAS BEEN RELEASED AND OPEN THE 2" LO-TORC VALVE.
9. PUMP 62 BBLs OF 14.3 PPG TUNED SPACER AT 4 BPM.
10. SHUT DOWN, WASH OUT MEASURING TANKS ON CEMENT UNIT, AND WEIGH UP CEMENT.
11. MIX AND PUMP 4 BBLs OF UNFOAMED LEAD CEMENT AT 16.74 PPG. PUMP RATE OF 2 BPM.
12. DROP DART TO RELEASE BOTTOM PLUG.
13. MIX AND PUMP 4 BBLs OF UNFOAMED LEAD CEMENT AT 16.74 PPG. PUMP RATE OF 4 BPM.
14. BRING NITROGEN ONLINE
15. MIX AND PUMP 39 BBLs OF FOAMED TAIL CEMENT AT 14.5 PPG AFTER FOAMING. PUMP RATE OF 2 BPM. (FOAM VOLUME OF 48 BBLs).
16. BRING NITROGEN OFF LINE
17. MIX AND PUMP 4 BBLs OF UNFOAMED SHOE CEMENT AT 16.74 PPG. PUMP RATE OF 2 BPM.

18. PUMP 3 BBLs OF 14.3 PPG TUNED SPACER @ 2 BPM.
19. DROP DART TO RELEASE TOP PLUG.
20. PUMP 17 BBLs OF 14.3 PPG TUNED SPACER AT 4 BPM.
21. WITH HALLIBURTON PUMPS DISPLACE CEMENT WITH 130 BBLs OF 14.0 PPG MUD @ 4 BPM.
22. REZERO, AND PUMP 727 BBLs OF 14.0 PPG MUD WITH RIG PUMPS @ 4 BPM. IF PLUG DOES NOT BUMP, PUMP NO MORE THAN AN ADDITIONAL 17 BBLs FOR A TOTAL OF 744 BBLs WITH RIG PUMPS.
23. BUMP PLUG AND PRESSURE UP TO 500 PSI ABOVE CIRCULATING PRESSURE. CHECK FLOATS AND BLEED BACK NO MORE THAN 6 BBLs. IF 6 BBLs ARE BLED BACK TO THE UNIT, PUMP AN ADDITIONAL 6 BLS OF 14.0 PPG MUD AND HOLD PRESSURE. TIME TO BE DECIDED BY BP COMPANY REPS AND ENGINEERS.
24. SET SEAL ASSEMBLY AND RELEASE RUNNING TOOL FROM HANGER.
25. PULL 2 STDS AND DROP DRILL PIPE NERF BALL. PUMP 1 ½ DRILL PIPE VOLUME (+/- 207 BBLs).
26. POOH.

CEMENT INFO FOR DRILLERS REPORT.

SPACER

72 BBLs AHEAD – 14.30 PPG

TUNED SPACER III + 0.6 GAL/BBL SURFACTANT A + 0.6 GAL/BBL SURFACTANT B + 0.6 GAL/BBL SEM-8 + 1 LB/BBL WELLLIFE 734, MIXED WITH FRESH WATER

LEAD CEMENT

22 SACKS – 5.26 BBLs – 30.14 CU.FT.

PREMIUM H CMT. + .07% EZ-FLO + .25% D-AIR 3000 + 1.88 LB/SK KCL + 20% SSA-1 + 15% SSA-2 + .2 % SA-541 + 11 GPHS ZONESEAL 2000 + 8 GPHS SCR-100L + 1 LB/BBL WELLLIFE 734

YIELD = 1.37 cuft/sk WATER = 5.13 gal/sk (FRESH WATER) MIXED AT 16.74 PPG

FOAMED TAIL CEMENT

159 SACKS – 47.75 BBLs – 268.11 CU.FT.

PREMIUM H CMT. + .07% EZ-FLO + .25% D-AIR 3000 + 1.88 LB/SK KCL + 20% SSA-1 + 15% SSA-2 + .2 % SA-541 + 11 GPHS ZONESEAL 2000 + 8 GPHS SCR-100L + 1 LB/BBL WELLLIFE 734

YIELD = 1.37 cuft/sk WATER = 5.13 gal/sk (FRESH WATER) MIXED AT 16.74 PPG

FOAMED TO 14.5 PPG FOAM YIELD = 1.69 cuft/sk

UNFOAMED TAIL & SHOE CEMENT

28 SACKS – 6.93 BBLs – 38.91 CU.FT.

PREMIUM H CMT. + .07% EZ-FLO + .25% D-AIR 3000 + 1.88 LB/SK KCL + 20% SSA-1 + 15% SSA-2 + .2 % SA-541 + 11 GPHS ZONESEAL 2000 + 8 GPHS SCR-100L + 1 LB/BBL WELLLIFE 734

YIELD = 1.37 cuft/sk WATER = 5.13 gal/sk (FRESH WATER) MIXED AT 16.74 PPG.

SPACER

20 BBLs AHEAD – 14.30 PPG

TUNED SPACER III + 0.6 GAL/BBL SURFACTANT A + 0.6 GAL/BBL SURFACTANT B + 0.6 GAL/BBL SEM-8 + 1 LB/BBL WELLLIFE 734, MIXED WITH FRESH WATER