

Additional data for EC transaction #76971 that would not fit on the form

32. Additional remarks, continued

cement slurry.

The condition for this proposal per BLM will read that the BLM is to be contacted prior to pumping second stage if first stage does not circulate. BLM is asking for this contact so that they can review the situation and usually request a 6 hour WOC to allow the first stage to harden somewhat so that the entire second stage does not disappear downhole. The Rig will call the P E T on call and they will in turn call Wesley

(CHK PN 624842)



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11/06/2009 08:03 AM

To: "wesley_ingram@nm.blm.gov"
<wesley_ingram@nm.blm.gov>
cc: Linda Good <linda.good@chk.com>

bcc:

Subject: Cement Properties

Wesley,

Find below the cement properties

Stage 1:

Lead: Density 11.80 lb/gal, Yield 2.56 ft³/sk

Tail: Density 14.20 lb/gal, Yield 1.36 ft³/sk

Stage 2:

Lead: Density 11.80 lb/gal, Yield 2.56 ft³/sk

Thanks,

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PLU Big Sinks 26 Federal 1H
30-015-37031
Chesapeake Operating, Inc
November 6, 2009
Conditions of Approval

1. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - a. First stage to DV tool, cement shall:
 - ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. **Excess cement per BLM program is 99% - Chesapeake 100%.**
 - b. Second stage above DV tool, cement shall:
 - ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office. **Excess cement per BLM program is 50% - Chesapeake 200%. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash.**
2. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - a. First stage to DV tool, cement shall:
 - ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. Second stage above DV tool, cement shall:
 - ☒ Cement should tie-back at least 200 feet above the DV tool setting depth in the 9-5/8" casing. Operator shall provide method of verification.

WWI 110609