

- B. Mud:** Maintain previous mud weight and adjust as necessary. Use paper sweeps to stop any seepage. Mix LCM if necessary (acid soluble). (See attached Mud Program for details)
- C. Potential Problems:** No problems expected if the Atoka and the Bones springs have been isolated.
- D. Casing:** DO NOT OVERLAP THE ATOKA PAYZONE.

13,500' to 12,400' - 5", 18 lb/ft L-80 LT&C

Make-up Torque, ft-lbs:

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|---------|------|
| Optimum | 3930 |
| Minimum | 2950 |
| Maximum | 4910 |

- E. Cement:** Pump 20 bbls of fresh water ahead of lead slurry.

100 sx of Modified Super H .5% HALAD-344 +0.4 CFR-3 +0.2 % HR-7 mixed w/fresh water.

| | |
|-------------------|--------------------------|
| Slurry Weight: | 13.00 ppg |
| Slurry Yield: | 1.64 ft ³ /sx |
| Water Requirement | 8.62 gals/sx |

F. Notes:

1. Circulate cement above top of liner.
2. Base cement volumes on 30% excess over caliper log.
3. Sandblast the bottom 3 joints of casing.
4. Install one centralizer on shoe joint and every 4th joint to bottom of 7-5/8" casing.
5. Tack weld collars and Use thread lock compound on bottom two joints when run.
6. Circulate a minimum of one casing volume before cementing.
7. Displace the plug with 10# Brine.
8. Bump plug w/1000 # over lifting pressure.
9. Wellhead: Install 7-5/8" weld on btm X 2-3/8 " tbg- 5K or 10K psi top wellhead (will be determined by .