

Plug and Abandonment Procedure
Steinwald 29
NENE Section 5, T1N, R64W
API# 05-123-07702

All cement pumped is to be class G, 1.15 yield, 15.8ppg unless specified otherwise.

1. Perform Bradenhead test prior to commencing operations. IF pressure on Bradenhead valve is greater than 25 psi, sampling is required (See COGCC COA for more details). Complete Form 17 and submit to Greely office at end of day.
2. MIRU WOR. ND WH. NU BOP.
3. TOOH w/ 2-3/8" tbg (*estimated* EOT @ 7650' MD), visually inspect and tally. Stand back approximately (First CICR) 2450' and LD remainder of tbg. Send tbg to Tuboscope for inspection.

Producing Formation

4. MIRU wireline. TIH and set CIBP @ 7600'. TOOH. TIH w/ dump bailer on wireline and dump 2 sks of class G cement on top of the CIBP @ 7600' MD to isolate J Sand formation. TOOH w/ wireline.

Niobrara plug

5. TIH w/ wireline and set CIBP @ 6890'. TOOH. TIH w/ dump bailer on wireline and dump 16 sks of class G cement on top of the CIBP @ 6890' MD

Mid Well, 2nd Aquifer perf/plug

6. RU wireline. TIH w/ perforating guns and shoot 4 holes @ 2,500' MD. TOOH w/ perf guns. TIH w/ 4-1/2" CICR and set @ 2,450' MD. TOOH w/ setting tool and RD wireline.
7. TIH w/ tbg and sting into CICR. Mix and pump 34 sks of cement into CICR. Sting out & pump 8 sks of cement on top of CICR to isolate 2nd aquifer. POOH w/ tbg.

Surface Casing Shoe & Fox Hills

8. RU wireline. TIH w/ perforating guns and shoot 4 holes @ 1140' MD. TOOH w/ perf guns. TIH w/ 4-1/2" CICR and set @ 1000' MD. TOOH w/ setting tool and RDMO wireline.
9. TIH w/ tbg and sting into CICR. Establish circulation through braden head (**contact office if circulation through braden head cannot be established**). Mix and pump 256 sks of cement into CICR.
10. Sting out of CICR and pump 76 sks of cement from CICR to surface. Pull tubing out of hole. Top off casing w/ cement.
11. SI well and WOC.

12. ND BOP and cut off casing below surface casing flange. Install P&A marker w/ cement to comply w/ regulations.
13. RD and move off location. Cut off anchors and restore location.