

Plug and Abandonment Procedure
Colorado Energy Federal 14-3
NWSW Sec 14, 10N 64W
API# 05-123-19617

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. PU 2-3/8" workstring- approximately (First CICR) 1850'

Richardson

1. MIRU wireline. TIH w/ dump bailer on wireline and dump 8 sks of class G cement on top of the RBP @ 4175' MD to isolate Richardson. TOO H w/ wireline.

Casing plug

2. TIH w/ wireline and set CIBP @ 1950'. TOO H. TIH w/ 4-1/2" CICR and set @ 1850' MD. TOO H w/ setting tool and RD wireline.
3. TIH w/ tbg and sting into CICR. Mix and pump 38 sks of cement into CICR. Sting out & pump 4 sks of cement on top of CICR. POOH w/ tbg

Surface Casing Shoe

1. Pump down casing and pressure up to 500 psi for 15 minutes to verify plug integrity and ensure no fluid migration is present.
2. RU wireline. TIH w/ wireline and set CIBP @ 450'. TOO H, RDMO wireline.
3. Pump 36 sks of class G cement to surface
4. SI well and WOC.
5. ND BOP and cut off casing below surface casing flange. Install P&A marker w/ cement to comply w/ regulations.
6. RD and move off location. Cut off anchors and restore location.