

REENTRY PROCEDURE

WELL NAME: UPRR 39 PAN AM A01 DATE: 8/2/2013
 LOCATION: Qtr/Qtr: SWSW Section: 3 Township: 3N Range: 64W
 COUNTY: WELD STATE: CO API #: 05-123-07220

ENGINEER: Amanda Beck 7 Day Notice Sent: _____
 (Please notify Engineer of any major Do not start operations until: _____
 changes prior to work) Notice Expires: _____

OBJECTIVE: Reenter and re-plug

WELL DATA: Surface Csg: 8 5/8" 24# 208' KB Elevation: 4732'
 Surface Cmt: 155 SX GL Elevation: 4720'
 Long St Csg: 4 1/2" 10.5#, 11.6# to TD TD: 7520'
 Long St Cmt: 200 SX - TOC 6600' PBTD: _____
 Long St Date: 2/19/1971
 Plug Info (1) CIBP + 2 sx @ 7200'
 Plug Info (2) Perf @ 500', pump 150 sx
 Plug Info (3) CIBP + 2 sx @ 200'
 Plug Info (4) 15 sx at surface
 Tubing: _____ Rods: _____
 Pump: _____
 Misc.: Base Fox Hills 452', Deepest water well 602'

WELL STATUS: Well abandoned 2/19/90

COMMENTS: Cut off casing 5' below ground level, no mention of welded on plate

PROCEDURE:

- 1) Survey and locate abandoned well, mark with stake
- 2) Excavate to expose top of surface casing
- 3) Weld 2" collar to top of 8 5/8" surface casing cap. Make up to collar, pneumatic drill with non-sparking bit. Drill out cap venting possible trapped gas.
- 4) Once verified that no gas exists beneath top of surface casing plate, cut off surface casing below plate with torch, dress up smooth.
- 5) Butt weld 8 5/8" casing to dressed cut, bringing threaded end of casing to ground level.
- 6) Make up to 8 5/8" casing, one 8 5/8" collar and 8 5/8" starter well head
- 7) NU flange adaptor and 5k BOP, test BOP.
- 8) NU and RIH with 3 3/4" cone bit, PU 2 7/8" drill collar, 2 7/8" 8.7# tubing, and TIW valve
- 9) Drill out cement plug inside production casing. Assume pressure under plug, roll hole with kill fluid until well dead, or blow down
- 10) Continue RIH, cleaning out with drilling mud or water to CIBP @ 200'
- 11) Drill out CIBP + 2 sx @ 200'
- 12) Continue RIH, cleaning out with drilling mud or water to 3000'
- 13) TOOH with cone bit, drill collars, and 2 7/8" tubing
- 14) RIH with perf gun, bottom squeeze perf @ ~3000', TOOH
- 15) RIH w/ cement retainer, set 100' above bottom squeeze hole, TOOH
- 16) RU cement crew, sting into retainer pump 100 sx 13.5 ppg FracCem cement
- 17) TOOH with cement tools
- 18) RIH with perf gun, bottom squeeze perf @ 760', top squeeze perf @ 505', TOOH
- 19) RIH with cement retainer, set 100' above bottom squeeze hole, TOOH
- 20) RU cement crew, sting into retainer pump 92 sx 13.5 ppg FracCem cement cover water well depth and aquifer
- 21) TOOH with cement tools, SI for several hours to allow cement to harden, Tag cement to verify TOC
- 22) RU cement crew and pump 60 sx of 15.8ppg Class G "neat" cement from TOC bringing cement to surface
- 23) POOH with 2 7/8" tubing. Wait 4 hrs, and tag TOC. If cement has fallen, top off back to surface
- 24) Let cement set over night, verify cement has not settled and is still at surface. RDMO