

REENTRY PROCEDURE

WELL NAME: Pfeiffer #16-26 DATE: 3/4/2015
 LOCATION: Qtr/Qtr: SESE Section: 26 Township: 6N Range: 64W
 COUNTY: WELD STATE: CO API #: 05-123-13396

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

OBJECTIVE: Re-enter and re-plug

WELL DATA: Surface Csg: 8 5/8" 24# set @ 320' KB Elevation: 4633'
 Surface Cmt: 175sx cmt to surface GL Elevation: 4623'
 Long St Csg: NO PROD CSG TD: 6920'
 Long St Cmt: _____ PBTD: _____
 Long St Date: _____
 Plug Info (1) 25sxs @ 317'
 Plug Info (2) 10 sx @ surface
 Plug Info (3) _____
 Plug Info (4) _____
 Perforation Interval (1): NONE
 Perforation Interval (2): _____
 Perforation Interval (3): _____
 Tubing: _____ Rods: _____
 Pump: _____
 Misc.: Base Fox Hills 309', Deepest water well 400'

WELL STATUS: Well Abandoned 03/19/1987

COMMENTS: Open hole from surface casing set depth (320') to TD (6920')

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 6 7/8" cone bit, PU 2 7/8" drill collar, 2 7/8" 8.7# tubing, and TIW valve
- 9) Drill out first cement plug inside surface casing, roll hole clean. Verify top of next cement plug inside of surface casing by tagging. Estimated TOC at 200'.
- 10) If unable to verify isolation of surface casing with tag of cement plug, set RBP inside surface casing
- 11) Once isolation of surface casing is established, either with tagging of surface plug or setting of RBP, pressure test surface casing to 200psi
- 12) After pressure test of surface casing, retrieve RBP or continue drill out of cement plug under surface casing shoe.
- 13) Assume pressure under surface casing shoe, roll hole with kill fluid until well dead, or blow down.
- 14) Continue RIH, cleaning out with drilling mud or water to 3000'. If unable to reach this depth, contact rig superintendent for further instruction.
- 15) TOO H with cone bit, drill collars, and 2 7/8" tubing.
- 16) PU and RIH with mule shoe and 2 7/8" tubing to 3000'
- 17) RU cement crew and pump 100sk 15.8 ppg Class G "neat" cement
- 18) POOH with 2 7/8" tubing to 500' (100' past deepest water well)
- 19) RU cement crew and pump 200sk 15.8 ppg Class G "neat" cement. Bring to surface
- 20) POOH with 2 7/8" tubing. Wait 4 hrs, and tag TOC. If cement has fallen, top off back to surface
- 21) Let cement set over night, verify cement has not settled and is still at surface. RDMO