

REENTRY PROCEDURE

WELL NAME: KIRCHNER #1 DATE: 3/8/2013
 LOCATION: _____
 Qtr/Qtr: SESE Section: 9 Township: 8N Range: 59W
 COUNTY: WELD STATE: CO API #: 05-123-05575

ENGINEER: Benjamin Zapp 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# 96' KB Elevation: 4782
 Surface Cmt: 60sxs GL Elevation: 4769
 Long St Csg: 7 7/8" open hole to TD TD: 6971
 Long St Cmt: none PBTD: _____
 Long St Date: 12/5/1959

Plug Info (1) HEAVY DRLG MUD 6791' - 125'
 Plug Info (2) 25sxs 125' - 85'
 Plug Info (3) HEAVY DRLG MUD 85' - 20'
 Plug Info (4) 10sxs 20' - surface

Tubing: _____ Rods: _____
 Pump: _____
 Misc.: Base Fox Hills 639', Deepest water well 1060'

WELL STATUS: Well Abandoned 10/31/60

COMMENTS: No mention of welded cap on surface casing, or if cut below grade

- 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.
 - 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'
 - 15) TOOH 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 a balanced plug of 100sk 15.8 ppg Class G "neat" cement
 - 18) POOH to 1210' (150' below deepest water well @ 1060')
 - 19) RU cement crew and pump 450 sxs of 15.8ppg Class G "neat" cement bring cement 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