

REENTRY PROCEDURE

WELL NAME: _____ CORNISH # 1 _____ DATE: _____ 1/9/2014 _____
 LOCATION: _____
 Qtr/Qtr: _____ NESE _____ Section: _____ 1 _____ Township: _____ 6N _____ Range: _____ 63W _____
 COUNTY: _____ WELD _____ STATE: _____ CO _____ API #: _____ 05-123-10863 _____

ENGINEER: _____ Ryan Olson _____ 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" 20.5# set @ 504' _____ KB Elevation: _____ 4867' _____
 Surface Cmt: _____ 300 sks _____ GL Elevation: _____ 4857' _____
 Long St Csg: _____ NO PROD CSG _____ TD: _____ 7405' _____
 Long St Cmt: _____ _____ PBTD: _____
 Long St Date: _____ _____
 Plug Info (1) _____ 25 sk cmt plug @ 550' _____
 Plug Info (2) _____ 20 sk cmt plug @ surface _____
 Plug Info (3) _____
 Plug Info (4) _____
 Tubing: _____ _____ Rods: _____
 Pump: _____
 Misc.: _____ **Base Fox Hills @ 459'; Deepest water well @ 400'** _____

WELL STATUS: _____ Well abandoned 1/20/83 _____

COMMENTS: _____
 _____ Hole filled with 9.4# mud _____

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 (assumption).
- 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 6500'
- 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 6500'.
- 17) RU cement crew and pump a balanced plug of 50 sks 15.8 ppg Class G "neat" cement
- 18) POOH to 3000'. RU cement crew and pump a balanced plug of 100 sks 15.8 ppg Class G "neat" cement
- 19) POOH to 609' (150' below Fox Hills base @ 459')
- 20) RU cement crew and pump 250 sxs of 15.8ppg Class G "neat" cement bring cement to surface
- 21) POOH with 2 7/8" tubing. Wait 4 hrs, and tag TOC. If cement has fallen, top off back to surface
- 22) Let cement set over night, verify cement has not settled and is still at surface. RDMO