

REENTRY PROCEDURE

WELL NAME: LINDAHL 1 DATE: 8/9/2016
LOCATION: Qtr/Qtr: SENW Section: 27 Township: 9N Range: 58W
COUNTY: WELD STATE: CO API #: 05-123-05621

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

OBJECTIVE: Re-enter and re-plug

WELL DATA: Surface Csg: 10-3/4" 32.50# 13'-250' KB Elevation: 4830'
Surface Cmt: 250 sks GL Elevation: 4817'
Long St Csg: NO PROD CSG TD: 6550'
Long St Cmt: _____ PBTD: _____
Long St Date: _____

Plug Info (1) NO PLUGGING INFORMATION
Plug Info (2) NO PLUGGING INFORMATION
Plug Info (3) NO PLUGGING INFORMATION
Plug Info (4) _____

Tubing: _____ Rods: _____
Pump: _____

Misc.: **Deepest Water Well @ 865', Base Fox Hills @ 527', Base of Upper Pierre @ 1357'**

WELL STATUS: Well abandoned 4/15/1953

COMMENTS: NO PLUGGING INFORMATION

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 (TOC unknown).
- 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 6000'
- 15) Circulate 2x hole volume (750bbl) to condition hole
- 16) TOOH with cone bit, drill collars, and 2 7/8" tubing.
- 17) PU and RIH with mule shoe and 2 7/8" tubing to 6000'.
- 18) RU cement crew and pump a balanced plug of 100sk 15.8 ppg Class G "neat" cement
- 19) POOH to 4000ft
- 20) RU cement crew and pump a balanced plug of 100sk 15.8 ppg Class G "neat" cement
- 21) POOH to 1500ft (100ft deeper than base of Upper Pierre)
- 22) RU cement crew and pump 1100 sxs of 15.8ppg Class G "neat" cement bring 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
- 25) Excavate around wellhead to 8' below grade, cut off 8 5/8" casing, weld on cap
- 26) Backfill hole and reclaim surface to original conditions