

REENTRY PROCEDURE

WELL NAME: Dale, Ivan 2 **DATE:** 5/26/2017

LOCATION:
 Qtr/Qtr: CSW Section: 14 Township: 2N Range: 64W
COUNTY: WELD STATE: CO API #: 05-123-10404

ENGINEER: David Hughes 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# @ 542' KB Elevation: 4977'
 Surface Cmt: 450 SX GL Elevation: 4967'
 Long St Csg: 4 1/2" 10.5 & 11.6# from 1900'-7649' MD: 7650'
 Long St Cmt: 300 SX 50/50 Pozmix, 100 SX Class G PBTD: 7604'
 Long St Date: 2/10/1982

Plug Info (1) Balanced Plug: 500'-750' 50 SX 1/2 in 1/2 out Surface Casing
 Plug Info (2) Surface Plug: Surface-106' 30 SX
 Plug Info (3) _____
 Plug Info (4) _____

Tubing: _____ Rods: _____
 Pump: _____
 Misc.: **Base Fox Hills 912' , Deepest Water Well 977'**

WELL STATUS: Well Abandoned 07/21/1988

COMMENTS: _____

PROCEDURE:

- 1) Survey and locate abandoned well, mark with stake and take location photos
- 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 1/8" cone bit, PU 2 7/8" drill collars, 2 7/8" 6.5# tubing, and TIW valve
- 9) Drill out first cement plug inside surface casing (TOC @ surface) tag second plug at 500', roll hole clean.
- 10) Pressure test surface casing to 200 psi. If pressure bleeds off, set RBP and test again. ****If test fails, contact office.****
- 11) After pressure test of surface casing, drill out second cement plug from 500' to 750' (or until top of parted casing is tagged)
- 12) Assume pressure under surface casing shoe, roll hole with kill fluid until well dead, or blow down.
- 13) RIH and dress top of fish for overshot
- 14) PU and RIH with overshot, attempt to latch on to 4 1/2" casing. ****If overshot fails, contact office.****
- 15) RU wireline, run gauge ring.
- 16) Set a CIBP at 1200', and dump bail 2 sx of cement on top.
- 17) RIH w/ 1' perforating gun and shoot 4-6 spf @ 1100'.
- 18) Establish injection rate and circulate 2x hole volume.
- 19) RU cement crew and pump 10 bbls mud flush (or similar spacer) followed by 65 sxs of 15.8ppg Class G "neat" cement (Volume factor assumes 7 7/8" hole size to prevent cementing of overshot).

Interval Start	Interval End	Length (ft)	Vol. Factor (ft ³ /Volume (ft ³))	Yield (ft ³ /sk)	Cement (sxs)
1100	800	300	0.2278	68	1.15
1100	1000	100	0.0873	9	1.15
					67

- 20) Displace cement with 15.5 bbls fresh water.

Casing ID	Depth (ft)	Disp. (bbl/ft)	Disp. (bbl)
4.000	1000	0.0155	15.5

- 21) Unland overshot @ 750' (or top of fish).
- 22) Pump 110 sxs of 15.8ppg Class G "neat" plug from 750' to 442'.

Interval Start	Interval End	Length (ft)	Vol. Factor (ft ³ /Volume (ft ³))	Yield (ft ³ /sk)	Cement (sxs)
750	542	208	0.4418	92	1.15
542	442	100	0.3576	36	1.15
					111

- 23) POOH with 2 7/8" tubing. Wait 4 hrs, and tag TOC.

- 24) Pump 140 sxs of 15.8ppg Class G "neat" plug from 442' to surface.

Interval Start	Interval End	Length (ft)	Vol. Factor (ft ³ /Volume (ft ³))	Yield (ft ³ /sk)	Cement (sxs)
442	0	442	0.3576	158	1.15
					137

- 25) POOH with 2 7/8" tubing. Wait 4 hrs, and tag TOC. If cement has fallen, top off back to surface.
- 26) Let cement set over night, verify cement has not settled and is still at surface. RDMO.
- 27) Excavate around wellhead to 8' below grade, cut off 8 5/8" casing, weld on cap.
- 28) Backfill hole and reclaim surface to original conditions.