REENTRY PROCEDURE

WELL NAME: C Watkins 18-03 **DATE:** 8/30/2013

LOCATION:

Qtr/Qtr: NWSE Section: 18 Township: 4N Range: 63W

COUNTY: WELD STATE: CO API #: 05-123-13611

ENGINEER: Ryan Olson

(Please notify Engineer of any major changes prior to work)

7 Day Notice Sent:

Do not start operations until:

Notice Expires:

OBJECTIVE: Re-enter and re-plug

WELL DATA:

Surface Csg:	8 5/8" 24# set @ 435'	KB Elevation:	4650'
Surface Cmt:	325 sks	GL Elevation:	4640'
Long St Csg:	4 1/2" 15.1# set from 4808'-6874'	TD:	6881'
Long St Cmt:	230 sks, TOC @ 6025'	PBTD:	6811'
Long St Date:	10/18/1987		

Plug Info (1): Set bridge plug @ 6500' w/ 2 sks of cmt on top

Plug Info (2): 35 sk cmt plug set 1/2 in and 1/2 out of sur csg

Plug Info (3): 10 sk cmt plug set @ surface

Plug Info (4):

Tubing: Rods:

Pump:

Misc.: ***Base Fox Hills @ 302', Deepest water well @ 922'***

WELL STATUS: Well Abandoned 10/20/92

COMMENTS: Cut surface casing off 4' below ground level and welded on steel cap

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 100 sks 15.8 ppg Class G "neat" cement
18) POOH to 1072' (150' below deepest water well @ 922')