REENTRY PROCEDURE

WELL NAME: Brown & Manning 1 **DATE:** 5/12/2017

LOCATION:

Qtr/Qtr: NENW Section: 17 Township: 5N Range: 62W

COUNTY: WELD STATE: CO API #: 05-123-05188

ENGINEER: David Hughes

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

7 Day Notice Sent:

Do not start operations until:

Notice Expires:

OBJECTIVE: Reenter and re-plug

WELL DATA:

Surface Csg:	10 3/4" 32# @ 280'	KB Elevation:	4701'
Surface Cmt:	280 SX	GL Elevation:	4691'
Long St Csg:	N/A	MD:	7106'
Long St Cmt:	N/A	PBTD:	
Long St Date:	N/A		

Plug Info (1)	Balanced Plug: 6850'-7100' 100 SX
Plug Info (2)	Shoe Plug: 220'-280' 40 SX
Plug Info (3)	Surface Plug: Surface-15' 10 SX
Plug Info (4)	

Tubing: Rods:

Pump:

Misc.: ***Base Fox Hills 380' , Deepest Water Well 225'***

WELL STATUS: Well Abandoned 8/12/1955

COMMENTS: *****LIMITED DATA ON RECORD - PROCEED WITH CAUTION*****

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 10 3/4" 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 10 3/4" casing to dressed cut, bringing threaded end of casing to ground level.
6) Make up to 10 3/4" casing, one 10 3/4" collar and 10 3/4" 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 220', 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, continue to drill out second cement plug
12) Assume pressure under surface casing shoe, roll hole with kill fluid until well dead, or blow down.
13) Continue RIH, cleaning out with drilling mud or water to 6250' (Nio top @ 6240').****If unable to get to depth, contact office****
14) TOOH with cone bit, drill collars, and 2 7/8" tubing.
15) PU and RIH with mule shoe and 2 7/8" tubing to 6250'.
16) RU cement crew and pump 100 sxs of 15.8ppg Class G "neat" balanced plug to 6000'

Interval Start	Interval End	Length (ft)	Vol. Factor (ft^3/	Volume (ft^3)	Yield (ft^3/sk)	Cement (sxs)
6250	6000	250	0.4418	110	1.15	96

17) POOH with 2 7/8" tubing. Wait 4 hrs, and tag TOC.
18) Pump 100 sxs of 15.8ppg Class G "neat" cement courtesy plug from 3000' to 2750'

Interval Start	Interval End	Length (ft)	Vol. Factor (ft^3/	Volume (ft^3)	Yield (ft^3/sk)	Cement (sxs)
3000	2750	250	0.4418	110	1.15	96

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