



Procedure to Re-enter & Properly P&A Well Prior to Offset HZ Fracs COA for Buford 33-10-4L & 33-9-3L

Supervisor: Bob Weitzel
Cell: 970-481-8730

Champlin 365 Amoco Unit A #2

05-123-10181

1,320' FNL, 1,320' FWL

C NW/4 Sec 33, T1N, R65W

Weld County, CO

Proposed Work:

Locate Well and Make-Up Wellhead

- 1.) Provide 48 hr. Form 42 notice to COGCC prior to 'excavation and rig up.'
- 2.) Survey and locate abandoned well, mark with stake, and take location photos.
- 3.) Excavate to expose top of surface casing.
- 4.) Prepare location surrounding exposed casing as necessary for rig.
- 5.) Set and test deadman anchors as necessary.
- 6.) 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.
- 7.) Once verified that no gas exists beneath top of surface casing plate, cut off surface casing below plate with torch, dress up smooth.
- 8.) Butt weld 8-5/8" casing to dressed cut, bringing threaded end of casing to ground level.
- 9.) Make up to 8-5/8" casing one 8-5/8" collar, and an 8-5/8" starter well head.
- 10.) NU flange adaptor and 5k BOP, test BOP.

Drill out Old Plug/s and Set New Plugs

- 11.) NU and RIH with bit, PU 2-7/8" drill collars, 2-7/8" 6.5# tubing, and TIW valve.
- 12.) Drill out 10 sx cement plug (down to 30'), the only cement plug inside surface casing. Assume pressure under surface plug; roll hole with kill fluid until well dead, or blow down.
- 13.) Continue RIH, cleaning out with drilling mud or water to top of Shannon plug, +/- 4,871', tag top of plug.
- 14.) TOO H with bit, drill collars, and 2-7/8" tubing.
- 15.) PU and RIH with mule shoe and 2-7/8" tubing to ~10' above top of Shannon plug.
- 16.) RU cementers. Pump 100 sxs of 15.8 ppg Class G 'neat' cement plug inside production casing from top of Shannon plug up to 3,989'.

	<u>Cement</u>	<u>Yield</u>	<u>Volume</u>	<u>Vol. Factor</u>	<u>Length</u>	<u>Interval</u>	<u>Interval</u>
	<u>(sx)</u>	<u>(ft³/sx)</u>	<u>(ft³)</u>	<u>(ft³/ft)</u>	<u>(ft)</u>	<u>Start</u>	<u>End</u>
5-1/2", 17#	100	1.15	115	0.1305	882	4,871	3,989

- 17.) POOH with 2-7/8" tubing. Wait 4 hrs.
- 18.) RU wireline. RIH with jet cutter and tag TOC. PU and cut 5-1/2" casing at 1,400'. RD wireline.



- 19.) Circulate with fresh water containing biocide to remove any gas.
 20.) Un-land casing. ND BOP. ND TH. Install BOP on casing head with 5-1/2" pipe rams.
 21.) TOOH and LD 1,400' of 5-1/2" casing. Remove 5-1/2" pipe rams, install 2-7/8" pipe rams.
 22.) RIH with mule shoe and 2-7/8" tubing to 1,400'.
 23.) RU cementers. Pump a balanced plug of 120 sx of 15.8 ppg Class G 'neat' cement in the open hole across the Fox Hills, from 1,400' up to 1,000'.

	<u>Cement</u>	<u>Yield</u>	<u>Volume</u>	<u>Vol. Factor</u>	<u>Length</u>	<u>Interval</u>	<u>Interval</u>
	<u>(sx)</u>	<u>(ft³/sx)</u>	<u>(ft³)</u>	<u>(ft³/ft)</u>	<u>(ft)</u>	<u>Start</u>	<u>End</u>
7-7/8" OH	120	1.15	136	0.3382	400	1,400	1,000

- 24.) POOH with 2-7/8" tubing. Wait 4 hrs and tag TOC. PU to 300'
 25.) RU cementers, Pump 215 sx of 15.8 ppg Class G 'neat' cement from 300' (75' beneath surface casing shoe) to surface. RD cementers.

	<u>Cement</u>	<u>Yield</u>	<u>Volume</u>	<u>Vol. Factor</u>	<u>Length</u>	<u>Interval</u>	<u>Interval</u>
	<u>(sx)</u>	<u>(ft³/sx)</u>	<u>(ft³)</u>	<u>(ft³/ft)</u>	<u>(ft)</u>	<u>Start</u>	<u>End</u>
12-1/4" OH	215	1.15	246	0.8185	300	300	0

- 26.) POOH with 2-7/8" tubing.
 27.) Let cement set overnight. Top off as needed. RDMO.

Reclaim

- 28.) Excavate around wellhead to 8' below grade, cut off 8-5/8" casing, weld on cap.
 29.) Obtain GPS location data as per COGCC Rule 215.
 30.) Backfill hole and reclaim surface to original conditions.