

CWC PETRO LLC
Massive 19-8
Plug and Abandonment Procedure
January 4th, 2023

LOCATION: SENE Sec 19, T2S, R46W
2,090' FNL & 640' FEL
Yuma County, CO

API: 05-125-1149

TD: 2,625' PBDT: 2,565' KB: 4,108' GL: 4,096'

PURPOSE of WORK: Pull rods and tubing. Plug and abandon well.

CASING:

7", 17#, J-55 @ 448' in 9 7/8" hole
Cemented with 116 sxs Portland I/II ASTM C 150
Circulated 2.0 bbls to surface

4 1/2", 10.5#, J-55 @ 2,615' RKB in 6 1/4" hole
Lead: 140 sxs Lite cement + 1/4 #/sk Flakes
12.2 ppg; Yield 1.81 (32.2 bbls)
Tail: 60 sx ASC + 2% Gel + 1/4 #/sk Flakes
14.5 ppg; Yield: 1.57 (21.0 bbls)
Circulated 15 bbls of cement to Surface

FORMATION TOPS:

Pierre Shale	413'
Niobrara	
Top Beecher Island	2,403'
Base Beecher Island	2,596'

Niobrara Perforations: 2,420' – 2,450'

PBDT: 2,565'

PROCEDURE:

1. Find and test rig anchors. If necessary, set temporary anchors. Spot in tubing float to handle 79 joints 2-3/8" 4.7# J55 8RD EUE tubing.
2. MIRU workover rig. Install wellhead and BOPE
3. Bullhead +/- 20 BBLS freshwater
4. POOH laying down 96 3/4 grade D" rods on float.
5. POOH standing back tubing and tallying tubing. LD SN and mud anchor.

6. MU CIBP for 4.5" 10.5# casing and TIH on tubing to set CIBP @ +/- 2,370'. Set CIBP within 50' of top perforation at 2,420'.
7. MU pump in sub. Load hole with freshwater and establish circulation.
8. Mix and pump 25 sxs class A cement (330 ft of cement, 25 sxs, 1.18 ft³/sx, 29.56 ft³ slurry volume). Spot cement from CIBP at +/- 2,370 up to +/- 2,040'.
9. POOH laying down tubing up to +/-1,850'. Reverse circulate until returns are clean of cement.
10. POOH laying down tubing up to +533'. Load hole with freshwater and establish circulation.
11. Mix and pump 40 sxs class A cement (533 ft of cement, 40 sxs, 1.18 ft³/sx, 44.67 ft³ slurry volume). Spot cement from +533' up to surface
12. POOH laying down remaining tubing.
13. Dig up wellhead and cut off 4' below surface. Top off production casing as necessary with cement. Weld plate over casing stub. Plate to have well name, location, and API number.
14. Re-claim surface per lease agreement and state regulations.