

RECOMPLETED FROM DEVONIAN TO WOLFCAMP.

1. Pulled rods, pump and tubing.
2. Ran GR/CCL survey 9500' - 11,000'.
3. Set Baker CIBP @ 13,300' and capped w/5 sx. cement.
4. Perforated 10,560' - 10,561' w/4-way squeeze gun.
5. Set HOWCO Type DC permanent cement retainer @ 10,545' w/wireline.
6. Ran tubing w/HOWCO stinger, hydrotested to 5000 psi. Set stinger into retainer w/12,000#.
7. Pumped 500 gallons 5% MCA followed by 80 BSW. Pumped 200 sx. Trinity Inferno cement + 4% gel (14 1/2# slurry wt.) @ 2 1/2 BPM @ 1900 - 2400 psi. Closed annulus and pressure increased to 3000 psi. Dropped plug down tubing followed by 10 sx. cement. Sealed plug in retainer, raised stinger 10' and reversed out 2 sx. cement. Raised tubing 1900'. Shut down overnight. Pulled tubing and stinger. WOC 36 hrs. (PBSD 10,535').
8. Perforated 5 1/2" casing 10,190' - 10,191' w/4-way squeeze gun.
9. Ran tubing w/FBRC set at 10,140'. Spotted 300 gallons 15% MCA on bottom. Pulled tubing and FBRC.
10. Perforated 10,238' - 10,242', 10,253' - 10,257', 10,261' - 10,268', 10,452' - 10,456', 10,464' - 10,470', 10,475' - 10,484', 10,490' - 10,496' w/2-3/8" JSPF.
11. Ran tubing w/retrievable bridge plug @ 10,328' and HW packer @ 10,214'.
12. Started injecting acid over perforations 10,238' - 10,268', had communication around packer. Reset packer @ 10,150' (above squeeze holes @ 10,190'). Injected 300 gallons acid. With 850 gallons acid in formation had communication in 8 5/8"-5 1/2" annulus. Reversed out 1000 gallons acid. Pulled tubing and retrievable bridge plug.
13. Set HOWCO CIBP @ 10,214' on wireline.
14. Ran tubing w/FBRC set @ 10,150'. Pumped water down tubing and broke circulation out of 8 5/8"-5 1/2" annulus. Pumped 100 sx. Trinity Inferno cement + 4% gel (slurry wt. 14.5#). Displaced cement w/4 BW.
15. After WOC 24 hrs. had slight pressure on tubing & 8 5/8" casing. Pumped 6 1/2 BW down tubing in 25 minutes and pressure increased to 5000 psi. Pressure bled to 4000 psi in 15 minutes.
16. Unseated packer, found cement 1' below squeeze perforations 10,190'. Reset packer @ 10,170'. Mixed 40 sx. Trinity Inferno to 15# slurry. Spotted cement and began squeeze. Pressure increased to 6000 psi after 31 sx. in formation. Unseated packer and reversed out 9 sx. cement. Pulled tubing and packer.
17. Ran 4 5/8" bit & 3-3" drill collars on tubing, found top of cement @ 10,173'. Drilled firm cement 10,173' - 10,190', stringers of cement to 10,205', firm cement to 10,214'. Drilled 2' cement at top of perforations @ 10,238'. Drilled CIBP @ 10,214'. Displaced water w/oil. Pulled tubing and bit.
18. Ran tubing w/retrievable BP @ 10,520', HW packer @ 10,214'.
19. In 4 hrs. swabbed 54 BLO from all perforations.
20. Reset packer @ 10,360' and spotted acid on bottom. Pressured tubing to 3000 psi, had communication w/annulus. Reset packer @ 10,170'. Treated formation w/4000 gallons 15% NEA.
21. Pulled tubing, packer and bridge plug.
22. Ran 17 jts. (526') 2" tubing 10,477' - 9951' and 324 jts. (9937') 2 1/2" 9951' - surface.
23. Ran pump and rods. In 24 hrs. pumped 74 BW and pumped dry. Pulled rods, pump, & tubing.
24. Perforated 10,238' - 10,242', 10,253' - 10,257', 10,261' - 10,268', 10,452' - 10,456', 10,464' - 10,470', 10,475' - 10,484', 10,490' - 10,496' w/1 JSPF.
25. Hung tubing @ 10,496', spotted acid, set FBRC @ 10,214', Treated w/6000 gallons 15% NEA.
26. Pulled tubing and packer.
27. Hydrotested and ran 17 jts. (526') 2" tubing 9951' - 10,477' and 324 jts. (9937') 2 1/2" tubing surface - 9951'. Hung @ 10,538'.
28. Reran pump and rods.
29. Recovered load.
30. On OPT pumped 136 BOPD + 5 BWPD w/4 1/2 - 27.4' SPM. Gravity 40.6 deg. API.