

WORKOVER PROCEDURE

FEDERAL 11-20-34 NO. 1

1980' FNL & 2130' FWL

Section 11, Township 20 South, Range 34 East
Lea County, New Mexico

7. Drop a standing valve then load the tubing with produced water.
8. Run a chemical cutter and cut tubing between 12,900' and the seating nipple.
9. Circulate out any oil on the backside.
10. Mix and spot 50 sxs of Class H cement containing sufficient additives to reduce the fluid loss to less than 250 cc/30 mins on top of the tubing stub then trip out of the hole laying down about 5000' of tubing.
11. Wait until surface samples are set, then run a CBL tagging the top of the cement and pulling up to 9000'.
12. Report the top of the cement plug to Denver. If top of cement plug is below 12,700', more cement will have to be dumped on top of the plug.
13. If the CBL shows good bond across the Bone Springs, trip in hole w/a SN, 7000' 2-3/8", 4.7#, J-55, EUE tubing and 2000' of 2-7/8", 6.5#, N-80, EUE tubing and swab well down. The 2-3/8" tubing should be hydrotested in the hole to 5700 psi.
14. Trip out of hole with tubing. Rig up wireline company.
15. Perforate below a full lubricator the Induction-Electric log intervals 10,253-10,258', 10,158-10,166', 9572-9577', 9560-9568', 9523-9538', and 9476-9496' with 4 JSPF using 23 gram charges and 90" phasing in a 4" casing gun.
16. Rig down wireline company.
17. Trip in hole with a retrievable bridge plug and packer to 10,280'. Set and pressure test bridge plug to 5700 psi for 10 mins.
18. Pull packer up to 10,220'. Spot 750 gallons of 15% NEFE acid 200-300' short of the packer. Set the packer, then displace acid with 70 bbls of produced water at as high a rate as possible. Shut down and obtain ISIP through 30 min shut-ins.
19. Bleed off pressure. Release packer and trip in hole to bridge plug at 10,280'. Latch onto, release, and pull up hole with the bridge plug to 10,190'.
20. Set and pressure test the bridge plug to 5700 psi.