

TO : A. J. Deans
DATE: June 2, 1983
RE : Re-entry of Mesquite 3-1

Federal "A" No. 1 660' FNL & 660' FWL, Sec. 3, T-18S, R-31E
Eddy County, New Mexico

CASING: 13-3/8" @ 736' w/700 sxs.
9 5/8" @ 4800' w/950 sxs. Cut off @ 2155' Free Point.
5 1/2" @ 12016' w/1200 sxs. Cut off @ 4998' Free Point.

PLUGS: 1. 10 sxs @ surface
2. 40 sxs @ 686 to 786 - Base of 13 3/8" csg @ 736'.
3. 40 sxs @ 2010 to 2110 - Base of salt.
4. 40 sxs @ 2105 to 2205 - 9 5/8" cut off @ 2155'.
5. 50 sxs @ 4750 to 4850.
6. 25 sxs @ 4998 to 5048. 5 1/2" cut off @ 4998'
7. 40 sxs @ 10700' to 11038'
9.5 lb/gal mud placed between plugs.

PROPOSED TESTS:

1. Bone Springs 8630' - 7310'.

RE-ENTRY PROCEDURE:

1. Clean out cellar & weld on 13-3/8" SD X 12" 3000 casing head.
Dig reserve pit.
2. Drill out surface plug w/rat hole machine.
3. Repair and/or install new cellar. NU flowline to pit.
4. RU reverse unit. RIH w/12-1/4" bit, 3-8" OD Drill collars
and 3-1/2" OD EVE tubing.
5. Drill out cement plugs to 9-5/8" csg stub @ 2155'.
6. POH; LD 12-1/4" bit & RIH w/9-5/8" Dress off Mill & Dress off
stub.
7. POH & LD Mill. Run Bowen Lead Seal casing Patch on 9 5/8" csg.
8. Stab Over 9-5/8" csg stub, catch & seal off 9-5/8" csg.
9. Pressure test casing patch to 1500 psi - 30 min.
10. NU 12' - 3000 X 10" 3000 casing spool.
11. TIH w/8-3/4" bit & collars, drill out plugs to 5-1/2" csg stub.
12. POH & LD 8-3/4" bit. RIH w/5-12" dress off mill & dress off stub.
13. POH & LD Mill & 3-1/2" tbg. Run casing patch on 5-1/2" csg & stab
over 5-1/2" csg stub.
14. Test csg patch to 1500 psi/30 min.
15. NU 11" - 3000 X 6" - 1500 tubing spool.
16. RIH w/4-3/4" bit collars & 2-7/8" tbg & drill out plugs to 8750'.
17. Raise tubing and spot 250 gals - 10% acetic acid @ 8600'.
18. RU wireline unit; Run GR-collar log from 8750'-5000'.
19. Perf Bone Springs from 8610' to 8630' w/2 JSPF. Total 40 shots.
20. Break down Bone Springs w/250 gals - 10% acetic & swab test.
21. Reacidize w/3000 gals 15% MSR 100 acid, 500 SCF N2/Bbl, if swab test
is encouraging place well on production.
If Swab Test of Bone Springs is Discouraging, Go to Step 22.
22. POH w/tbg. RU wireline unit, GIH w/CIBP set @ 8590' w/35 ft of cmt
on top.
23. Perf. intervals in Bone Springs from 8490'-8500'. 8458'-8460', 8478'-
8480' & 8402'-8420'. Est total 64 holes.
24. Acidize w/250 gals 15% MSR & swab test.
25. Reacidize w/3000 gals 15% MSR - 100 w/500 SCF N2/Bbl in all fluids.
26. Swab & flow test. If test is encouraging, place well on production.
If Test is Discouraging, proceed to Step 27.
27. POH w/tbg. RU wireline unit, GIH w/CIBP, set @ 8375' w/35' of cmt on top.
28. Perf Bone Springs interval from 7345'-7355', 7330'-7335', & 7310' -
7320' w/2 JSPF, 50 holes.
29. Acidize w/250 gals 15% MSR-100 & swab test.
30. Reacidize w/3000 gals 15% MSR-100 w/500 SCF N2/Bbl.
31. Swab & flow test. If test is encouraging, place well on production.
If Test is Discouraging, proceed to Step 32.
32. Pull tbg & pkr OOH. Back-off 5 1/2" csg @ 4998'.
33. LD 5-1/2" csg & Bowen csg patch.