

210

2662

LEASE FloranceWELL NO. 4A9-5/8 "OD, 36 LB, K-55 CSG.W/ 225 SXTOC @ Surface7 "OD, 26 LB, K-55 CSG.W/ 300 SXTOC @ Surface4-1/2 "OD, 10.5 LB, K-55 CSG.W/ 240 SX

TOC @ _____

RECEIVED

APR 02 1984

OIL CON. DIV.
DIST. 3DETAILED PROCEDURE:

-2-

19. If necessary, frac Upper Coal down csg using 70% quality foamed N_2 w/30#/1000 gal gel.
 Pump @ 20 BPM w/max STP = 3500 psi as follows:
 7,000 gal PAD
 3,000 gal 1 ppg 20/40
 5,000 gal 2 ppg 20/40
 5,000 gal 3 ppg 20/40
 5,000 gal 4 ppg 20/40

Total Volumes: 25,000 gal foam & 48,000 # sd.

20. SI for 2 hrs. Then FTCU thru 1/2" tapped bull plug overnight.

Test.

21. RIH w/tbg & retrieving head. ^ CO to 8" @ 2750' w/foam. Release & POOH w/B.P.
22. RIH w/2-3/8" long string w/seal assy, blast jts, S.N. & pmp-thru expendable check, C.O. w/foam to Model "D", knock out pkr plug. Land tbg @ 5280' \pm .
23. RIH w/2-3/8" short string w/S.N. & pmp-out plug in orange-peeled perf'd sub. Land @ 2860'.
24. Drop ball & pmp out long string plug, return M.V. to prod. Swab if necessary.
25. Pump out short string plug, kick around w/ N_2 .
26. Flow Coal to clean up, then SI for AOF.
27. Run rods & install pumping-unit if Coal is wet.

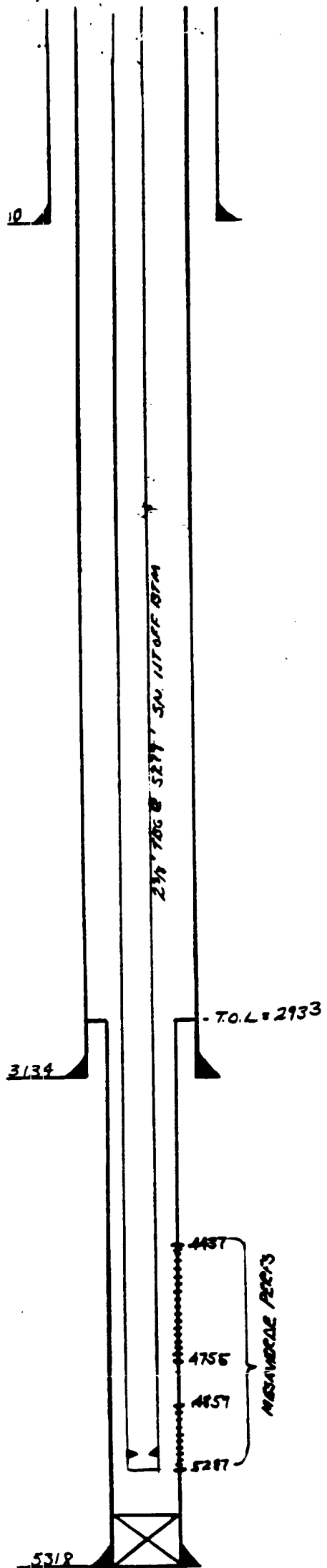
2 3/4" 756' 8" 5279' 54" 11766' 874"

- T.O.L. = 2933

3134

 4457
 4756
 4857
 5297
 NEGATIVE 280'3

5312



2662

LEASE Florance

WELL NO. 4A

9-5/8 "OD, 36 LB, K-55 CSG.W/ 225 SX

TOC @ Surface

7 "OD, 26 LB, K-55 CSG.W/ 300 SX

TOC @ Surface

4-1/2 "OD, 10.5 LB, K-55 CSG.W/ 240 SX

TOC @ _____

DETAILED PROCEDURE:

1. MIRUSU. Kill Mesaverde w/1% KCL wtr. NDWH. NUBOPE. ^{POOH}
2. Check PBD; ^{CO} if necessary, POOH w/tbg.
3. Run GR/Neutron log from surface ^{CA} to T.O.L. (telecopy results to Denver).
4. RIH w/7" Model "D" pkr w/expendable plug on wireline. Set @ 2900'.
5. P.T. csg & pkr to 3000 psi. Dump 2 sx sand on top. *CHANGE OUT WELLHEAD.*
6. Perforate Lower Fruitland Coal 1 JSPF using 4" csg gun & premium charge in the following intervals: 2864-2883', 2827'-2862', 2785-2803' (76' total).

Note: These intervals Upper Coal intervals are based on offset logs. Actual depths may be slightly different, depending on results of GR/Neutron run.

7. RIH w/tbg 7" pkr & S.N. Set @ 2750'.
8. Establish rate w/1% KCl wtr, then acidize perms w/2000 gal 15% HCl, nitrify acid w/500 SCF/BBL.
9. FTCU thru 1/2" tapped bull plug. Swab in if necessary. Test well, then POOH w/tbg.
10. If necessary, frac Lower Fruitland Coal down csg w/70% quality foamed N₂ w/30# gel pump @ 20 BPM w/max STP = 3000 psi as follows:

- 20,000 gal PAD
- 8,000 gal 1 ppg 20/40
- 12,000 gal 2 ppg 20/40
- 15,000 gal 3 ppg 20/40
- 17,000 gal 4 ppg 20/40

Total Volumes: 72,000 gal foam & 145,000# sd.

11. Shut in for 2 hrs, then FTCU thru 1/2" tapped bull plug, overnight.
12. RIH w/tbg & CO to perms if necessary. Test. POOH.
13. RIH w/wireline set tbg-retrievable B.P. Set @ 2750' ± (exact depth determined from GR log.).
14. PT B.P. to 3000 psi. Dump 2 sx sand on top.
15. Perforate Upper Coal 1 JSPF using 4" csg gun: premium charges in the following intervals: 2685-2709' (24' total).
16. RIH w/tbg, 7" pkr & S.N. set @ 2650.
17. Establish rate w/1% KCl wtr, then acidize Upper Coal w/750 gal 15% HCl, nitrify w/500 SCF/bbl.
18. FTCU thru 1/2" tapped bull plug. Swab in if necessary. Test well. Then POOH w/tbg.