

4-30-90 thru 7-12-90

1. MIRV P.U. TOH w/prod equip - TIH w/CIBP set @ 4962, set pkr @ 4680 - establish rate TOH w/pkr - TIH w/cmt ret. set @ 4680
2. Sqz perfs 4772 - 4900 w/500 sxs Cls H. w/ 2% CACL Max 3000, TOH w/tbg - WOC
3. TIH w/bit - tagged cmt @ 4721 - drill to 4962 - Test to 500 lbs for 30 min Ok - TOH
4. TIH w/ cmt ret. on 2 3/8 tbg set @ 6366'
5. Sqz perfs 6416 - 6422 w/300 sxs Class H Neat - Sqz @ 2000 psi rev out 18 sxs TOH - WOC
6. TIH w/bit & DC on 2 3/8 tbg - drill out cmt ret & cmt 6366 - 6480 - circ hole clean - would not hold - tag next plug @ 7392' TOH
7. TIH w/ cmt ret set @ 6366
8. Sqz w/100 sxs Class H w/ 2% CACL @ 3000 psi - 37 Sxs on formation rev. out. TOH
9. TIH w/bit & 8 DC on 2 3/8 tbg - Drill ret. @ 6366 & cmt to 6500 circ hole clean & test to 500 psi Ok tag fill @ 7542 - TOH
10. Left 2 cones in the hole - TIH w/ 3 7/8 shoe, 8' extension & 8 3 1/8 DC on 2 5/8 tbg cut over 2' 7600 - 7602 circulated clean - TOH
11. TIH w/ bit & DC on 2 3/8 tbg drill out cmt. ret & cmt circ gelled mud out to PBTD 11, 165 - TOH
12. RV WL - Run CBL 7383 - 10532 - pipe free 7600 - 10500
13. TIH w/pkr on 2 3/8 tbg to 7500' set pkr & test csg. @ 7691 ok, 8204 OK, 9505 ok, pull pkr to 9013
14. Perf csg w/ 4 holes @ 9052 & 9452
15. Lower pkr to 9060 - attempt to circ back of csg - form taking fld - bled back
16. Lower pkr to 9400 - press to 500# swab 4 hrs - pull pkr to 9060 - circ back of csg circ hole clean - TOH
17. TIH w/cmt ret. on 2 3/8 tbg set @ 9068 - run red dye test
18. Sqz csg 9052 - 9452 w/ 75 sxs Class H & .8% Halad-9 - TOH - WOC
19. TIH w/ 3 7/8 bit 8 3 1/2 DC & tbg - tag TOC @ 9003 - drill cmt to 9403 - circ clean test sqz 300 psi displace w/ 2% KCL
20. TOH w/ tbg laying down DC - TIH w/pkr to 9310
21. Spot 35 gal 10% Acetic across 9260 - 9310 - pull up set pkr @ 9160 - No BOP
22. Perf 4.5 w/2 JSPF 9269 - 80, 9286 - 9302 (29 cmt, 59 holes) prep to acidize
23. Set pkr @ 8973 - pump in - COM to backside - drop standing valve - test tbg ok locate top of csg leak @ 7626
24. TIH w/RBP & pkr locate csg leak @ 9269, 7622 - 9052 - TOH w/pkr & RBP
25. TIH w/tbg - swab well - TOH w/tbg
26. TIH w/ cmt ret. on 2.375 tbg set @ 9002 - red dye test @ 7626 - 9052 3BPM @ 2750
27. Pmp 20Bbls mud flush - cmt w/ 375 sxs Class H, .4% Halad-9, .4% CFR-2 - pull to 7574 - rev cmt - TOH w/tbg - WOC
28. TIH w/bit & 8 DC on 2 5/8 tbg - drill out cmt & cmt ret. circ hole clean TOH w/tbg & bd
29. TIH w/pkr on 2 3/8 tbg - test for communication - tested ok TOH
30. TIH w/Treat pkr w/308' TP set pkr @ 9004 - TP @ 9312
31. Spot 2 Bbl 15% Acid over perfs 9269 - 9302 SI 30 min - B/D form. @ 2500#
32. Acidize perfs 9269 - 9302 w/3000 gals 15% NEFE AIR .9 BPM, Max 2850, ISIP 2500 15 min 2350 flush w/37 Bbls 2% KCL
33. Swab well
34. Acidize perfs 9269 - 9302 w/2500 gals NEFE AIR 4.2 BPM Max 4950, ISIP 2606 15 min 2250 flush w/ 38 Bbls 2% KCL
35. Swab well
36. TOH w/tbg - perf 4.5 csg w/2 JSPF @ 9269 - 80, 9286 - 9302
37. TIH w/ 4.5 pkr on 2.875 tbg - set pkr @ 8985 w/TP @ 9231
38. Acidize perf 9269 - 9302 w/2500 gal 15% gelled NEFE & 2000 lbs rock salt max 2800, min 2400 AIR 2.8 BPM ISID 2100, 15 min 1850
39. Swab well
40. Frac perfs 9269 - 9307 w/20000 gel X2-4, 10300 SCF CO2 2700 lbs 20/40 sand - max 5500, min 5200, AIR 121 BPM ISIP 2650, 15 min 2480
41. Swab well
42. Ret pkr - wash sand 9320 - 9381 - TOH laying down WS
43. TIH w/ 2 3/8 tbg - swab well
44. TOH w/tbg - TIH w/pkr to 9000' test to 300# ok - ret & reset @ 9125' - test to 500 psi ok
45. Swab well
46. TOH w/pkr - TIH w/prod tbg rods & pump Return to production

Test prior 10 BU 3 BW Test after 41 BO 103 BW