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U.S. DEPT.
HOMELAND SECURITY

5. RIH w/4-3/4 bit, 6-3/4" DC & WS. CO cmt plug at 5890. CO hole to 6000'. POH w/WS, DC's & bit.
6. Perf Blineary Set I 5891-5917 & 5940-5978, 1 JSPF, 66 holes w/4" CG, 23 gc by Lane Wells GR/N log dated 5/2/63.
7. RIH w/RDG pkr on 2-7/8" WS. Howco spot 2 bbls *15% NEFE from 5978 to 5894. Raise spot valve if necessary. Raise & set pkr at 5880'. Acdz perfs 5891-5978 w/5000 gals 15% NEFE dropping 100 ball sealers spaced evenly thruout. (NOTE: Watch for communication w/old perfs 5804-5865. If communication exists, reset pkr at 5700' and acidize both sets 5804-5978 w/same amount of acid & ball sealers as above.) Flush w/2% KCl water. Pump at 5 BPM est WHTP 3000#, Max TP 6500#.
8. Swab back L&AW. Determine FE & content. Unseat pkr & lwr thru perfs. Reset at 5700. Trap 500 psi on csg. Howco frac perfs 5804-65, 5891-5917 & 5940-78 w/66000 gals ***Pur-gel 30 carrying 130000 lbs 20/40 sd. Pump at 25 BPM. Est WHTP 6000. Max TP 8000. Pump as follows:
- | | | | | | |
|---------------|-------------------|-----------|----------|---|---|
| a) 2000 gals | **pre-pad. | | | | |
| b) 22000 gals | ***Pur-gel 30 pad | | | | |
| c) 500 gals | " | w/1.0 ppg | 20/40 sd | | |
| d) 2500 " | " | w/2.0 " | " | " | " |
| e) 12000 gals | " | w/2.5 " | " | " | " |
| f) 14000 " | " | w/3.0 " | " | " | " |
| g) 15000 " | " | w/3.5 " | " | " | " |
- h) Flush w/slick 2% KCl wtr.
Rig down Howco. SI overnight.
9. Swab back. Determine FE & content.
10. POH w/WS & pkr. PB w/sd to 5800 using a WL dump bailer.
11. Perf Blineary Set II 5731-5753 & 5766-5778, 1 JSPF, 36 holes w/4" CG, 23 gc by Lane Wells GR/N log dated 5/2/63.
12. RIH w/pkr & WS. Howco spot 75 gals 15% NEFE from 5778-5703. Raise & set pkr at 5650. Trap 500 psi on csg. Acdz perfs 5731-5778 w/3000 gals 15% NEFE dropping 54 ball sealers spaced evenly thruout. Flush w/2% KCl wtr. Pump at 5 BPM. Est WHTP 3000. Max TP 6500.
13. Swab back L&AW. Determine FE & content. POH w/WS & pkr.
14. PB w/sd to 5725 using a WL dump bailer. Perf Blineary Set III. 5576-5606 & 5622-5706, 1 JSP2F, 59 holes w/4" CG, 23 gc by Lane Wells GR/N log dated 5/2/63.
15. RIH w/pkr & WS. Howco spot 150 gals 15% NEFE from 5706-5556. Raise & set pkr at 5500. Trap 500 psi on csg. Acdz perfs 5576-5706 w/5000 gals 15% NEFE dropping 88 ball sealers spaced evenly thruout. Flush w/2% KCl wtr. Pump at 5 BPM. Est. WHTP 3000. Max TP 6500.

16. Swab back L&AW. Determine FE & content. Rise pkr, lower & tag sd @ 5725'.
Reset pkr at 5500'. Trap 5000 psi on csg. Howco frac perms w/66000 gals
**Pur-gel 30 carrying 130000 lbs 20/40 sand. Pump at 25 BPM. Est WHTP 6000.
Max TP 8000. Pump as follows:
- a) 2000 gals pre-pad
 - b) 22000 gals Pur-gel 30 pad
 - c) 500 " " " w/1.0 ppg 20/40 sd
 - d) 2500 " " " w/2.0 " " "
 - e) 12000 " " " w/2.5 " " "
 - f) 14000 " " " w/3.0 " " "
 - g) 15000 " " " w/3.5 " " "
 - h) Flush w/slick 2% KCl wtr.
- SI overnight.
17. Swab back load. Determine FE and content. CO sd to 6000' by circ or use hydrostatic bailer. POH w/WS.
18. RIH w/pumping setup. 2-3/8 TS 5500, SN 5470, TAC 5000. RIH w/1½ pump on 76 RS. POP. Test.

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