

4. RIH w/B.J.-Titan 5½" PFT tool on 2-7/8", L-80 prod tbg. Round trip tool thru perfs 9735-9858 breaking perfs w/2% KCL wtr w/3 GPT NE-32 @ 2.5 BPM. Close backside and treat perfs w/1500 gals 15% NEFE HCL (non-gelled) at 2.5 BPM. POH. RIH w/5½" RDG pkr on 2-7/8" tbg to 9625. Rev out backside w/2% KCL. Set pkr and trap 1500 psi CP.
5. B.J.-Titan acidize Penn perfs 9735-9858 w/8000 gals gelled 15% NEFE HCL w/additives* in 4 stages at 6 BPM. Est. WHTP 5000 psi. Max surf press 6500 psi. Pump schedule as follows:
 - A. Pump 2000 gals gelled 15% NEFE HCL.
 - **B. Pump 600 lbs GRS in 300 GGSB + 50 1.3 SPGR RCN BS
 - C. Repeat Steps "A" thru "B" twice.
 - D. Pump 2000 gals gelled 15% NEFE HCL.
 - E. Flush to btm perf w/2700 gals slick treated 2% KCL wtr.**NOTE: Adjust vol of block on subsequent stages as necessary for block action. Have 2000 lbs. additional GRS on location. (Vol to btm perf 2564 gal).
6. Flow/swab back L&AW. Evaluate fluid entry rate and content. Rlse pkr, lower thru perfs and reset at ±9625. Load backside w/2% KCL wtr and trap 1000 psi CP.
7. B.J.-Titan chemical squeeze perfs 9735-9858 using 3 drums Tretolite SP-181 scale inhibitor in 75 bbls 2% KCL wtr w/3 GPT NE-32. Pump in 4 stages at 3 BPM. Max surf press 6500 psi. Pump schedule as follows:
 - A. Pump 839 gals SP-181/2% KCL wtr solution.
 - B. Pump 1000 gals 2% KCL wtr displacer.
 - C. Pump 600 lbs GRS in 300 GGSB.
 - D. Repeat Steps "A" thru "C" twice.
 - E. Repeat Steps "A" thru "B" once.
 - F. Flush to btm perf w/2600 gals 2% KCL.NOTE: Fluid should contain 3 GPT NE-32 demulsifier. Omit in flush.
8. Flow back to tank until well dies, rlse pkr and lower thru perfs. POH.
9. RIH w/31' MA, 4' perf sub, SN, 6 jts 2-7/8" tbg and TAC on 2-7/8" prod tbg. TS ± 9910, MA ± 9879, PS ± 9875, SN ± 9874, TAC ± 9688. ND BOP. NU WH. RIH w/1.25" pump on 86 taper rod string (197-3/4", 102-7/8", 95-1". Space out as needed
10. Test production at 1.25 X 149 X 10 (Pump capacity = 246 BPD).

Total Hours

*Additives for Gelled 15% NEFE HCL

2 GPT CI-23 (Corrosion Inhibitor)
3 GPT NE-32 (Demulsifier)
25 GPT AG-12 (Gelling Agent)
10 GPT Ferrotrol-300L (Iron sequesterant)
1 PPT X-14 (Stabilizer)
5 GPT Paravan 24 (Paraffin Dispersant)

Acid Flush and Overflush

2% KCL
3 GPT NE-32
5 GPT Paravan 24