

Sotol Federal No. 7 Delaware Recompletion Procedure

MIRU pulling unit. Pull rods and pump. Load hole with produced water. TOH with tubing.

Perforate Brushy Canyon Sand as follows: 8,314'-8,320' (6', 25 holes, 4 JSPF) with 4" guns. Use a packoff for pressure control. TIH with SN, packer, and tubing; test tubing to 8,000 psi.

Load hole with 2% KCL. Spot 100 gals 7½% NEFE acid from 8,225'-8,325'. Pull tubing up to 8,185'. Reverse 5 bbls into tubing. Set packer at ± 8,150'; EOT at ± 8,150'. Acidize perms 8,314'-8,320' with 300 gals 7½% NEFE and 36 ball sealers at 7 BPM down 2⅞" tubing at maximum tubing pressure of 4,000 psi. Flush to bottom perf with 2% KCL water. Limit the ballout pressure to 1,000 psi over average treating pressure.

Surge well back; shut in for 30 minutes to allow balls to fall.

RU kill truck and keep annulus loaded with 2% KCL water during frac job.

Sand frac down 2⅞" tubing with 29,000 gal XL fluid and 50,000# 16/30 RCS 10 BPM, 4,000 psi maximum pressure (0-5 ppg). Maximum allowable rate 25 BPM, maximum allowable pressure 7,000 psi.

Flow back sand frac until well dies. Swab 1 day. POH with tubing and packer. Place well on production.