

well off in one swab. FL 3600'. Second run swabbed from 6400'. Flow line limiting rate of swab. Left well on 18/64" choke, FTP 200#. A.M. 14th: well dead. Had made 56 BO, 47 mcf in 12 hrs and died. Will swab today to frac tank. ECC:\$291,000

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Penroc "9" State No. 1

Lea County, New Mexico

February 14, 2000

RIH w/ swab. FL 7600'. Swabbed down to SN in 2 runs. Well gassing good, but very limited fluid entry. SD 1 hour. SITP 240#. Made another swab run. Recovered 500' of oil and gas. RD swab unit and left on location. Oil sample: 100% oil 41 degree API gravity. Discuss treating practices with Schlumberger Midland and Hobbs. Will do coiled tubing clean out Wednesday and down the tubing acid job on Thursday (Schl schedule). May have to pay some stand by time to swab unit as we do not want to release the unit.

EDC: \$1000

ECC:\$292,000

February 15, 2000

19 hrs SITP 750#. Opened well to the battery on 16/64" choke. Moving frac tanks etc. Preparing to acidize on the 16th with coiled tubing.

February 16, 2000

AOL 6:30 a.m. Well still flowing on 16/64" ARO 40 mcfd and no liquids. Made 20 BO and 47 mcf past 24 hours. Schlumberger 2 hrs late. RU Coiled tubing. TIH w/ same. TD 9917'. No problems. Started with foam and acid. Broke down bottom porosity per Glen's notes. Unable to break down the top three (I think we were pumping some acid in them as tight as it was). RD Schlumberger 8 p.m. Flushed with 100% N₂. SITP: 2700#, 1 hr SITP: 1650#. EDC: \$30,000

ECC:\$322,000

Preparing to acidize down 2 7/8" tubing with 7000 gallons a.m. 17th Feb.

February 17, 2000

AOL 7 a.m. SITP 1350#. RU Schlumberger acid. Frac tank mixed with 4% KCL water (420 bbls.) Pumped in 4%KCL w/ surfactant as pre-pad. Pumped X-77 surf. Unable to break down. 1.5 BPM and 5500#. Kept working it until noon. Bled back Clearfrac fluid to the pit. RU and attempted to pump in. Same problem-no go. Let acid sit for 45 min. Pressured up back side to 950#. Start pumping acid (20% gel) again. Injection rate 3 BPM and 4900# (best rate and pressure since we started a.m.) Built up to 5243# then start breaking back to 4794. Increased rate to 5 bpm. Flushed to half way in the open hole.

Max press 5500#. ISIP 4650#, 5 min: 3000#, 10 min: 2450#, 15 min: 2130#. RD Sch. NU pumping tee and choke. 25 min SITP: 1300#. Left well shut in over night. TLWTR :840

EDC: \$22000

ECC:\$344,000