

ROBERT N. ENFIELD
HUDSON FEDERAL NO. 3
LEA COUNTY, NEW MEXICO
COMPLETION REPORT
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- 9/18/89: Blade off and level location. Set anchors.
- 9/19/89: Move in and rig up Mack Chase Well Service. Unload 384 joints 2 3/8" 4.7#/ft., N-80 tubing, clean threads and tally. Go in hole with 6 1/8" bit and 379 joints tubing. Lagged plug at 12,236'. Pulled bit up into casing at 11,830'. Shut in for night.
- 9/20/89: No pressure on well. Run bit to 12,236', rig up Howco and pump 2% KCL water and wash to 12,240'. Displace with 2% KCL water. Pump 15% HCL acid to bottom of tubing and reverse acid to pit to clean out. Pump 500 gallons 7 1/2% acetic acid to spot. Pull out of hole with tubing and remove bit. Go in hole with 135' tail pipe, baker packer and 375 joints tubing, bottom of tubing at 12,235', packer at 12,100'. Remove BOP and nipple up well head. Reverse with 12 barrels 2% KCL water, set packer. Pressured casing to 500 psig, pressure up on tubing to 2200 psig, bleed to 2000 psig in 6 minutes, repeat this process for 2 hours. Shut in at 9:00 PM MST.
- 9/21/89: SITP 50 psig. Rig up Halliburton and pressure to 2200 psig, unable to pump in, bleed back to 2000# in 10 minutes. Repeated this step for 1-1/2 hours. Increased pump pressure to 2500 psig, bleed back to 2000 psig in 14 minutes. Repeated this step for 1 hour. Increased pump pressure to 2800 psig, bleed back to 2000 psig in 19 minutes. Repeated this step another 1/2 hour and pumped in a total of 67 gallons acid. Released pressure and rig down Halliburton. Rig up to swab. Swabbed back 46 barrels (36 bbls KCL water, and 20 bbls Acetic Acid). Made 3 runs from seating nipple at 12,088'. Recovered 200' fluid. Shut in at 4:00 PM
- 9/22/89: Tubing -0- psig, well on vacuum. Rig up to swab, fluid level at 11,840', recovered 250' of fluid. Rig up Halliburton to acidize. Pressured up on casing 500 psig. When started acid, pressure to 2600 psig, with increased pressure on backside, (indication packer leaking or not holding). Pressured up on tubing, pressure increased on casing. Pressured up to 4600 psig, and pumped into formation at 4/10 of a barrel per minute, increased pressure to 5000 psig, pumped into formation at 8/10 of a barrel per minute. Total acid used 5000 gallons 15% NEFE acid with 2 gallons Penn 88 per 1000 gallons. Pumped 50 bbls 2% KCL water for flush. Maximum treating pressure 5000 psig, minimum treating pressure 4600 psig, average treating pressure 4900 psig at 8/10 of a barrel per minute. Instant shut down pressure 5000 psig, in 5 minutes 4900 psig, in 15 minutes 4900 psig. Load to recover 169 barrels. Flowed back 49 barrels load. Rig up Swab. Swabbed 25 barrels, casing went on vacuum. Rig down swab. Remove well head and BOP. Rig up pump truck. Pumped 225 barrels 2% KCL water to reverse acid. Pick up on packer, pulled 5 feet and packer stopped, worked 2 hours could not pull out of hole. Shut in for night.