

ROBERT N. ENFIELD
HUDSON FEDERAL NO. 3
LEA COUNTY, NEW MEXICO
RECOMPLETE IN THE DOLOMITE "7"
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8/13/90: Well on vacuum after 40 hours SI. Ran Baker Lok-set packer and 302 joints tubing. Pump 16 barrels 2% KCl water, did not load hole, set packer at 9746' K.B. Flanged up tree on BOP, load annulus with 25 barrels 2% KCL water. Rigged up Halliburton, pumped into formation at 1.6 BPM, pumped 17 barrels with continuous pressure increase, 4720 psig. ISDP 4000 psig, in 15 minutes 260 psig. Bled off and began swabbing down at 10:45 AM. Made 11 runs, fluid level down to 6500' from surface, recovered estimated 45 barrels load water, 15 barrels load to recover. Rigged up Halliburton and treated with 15,600 gallons MOD 202 acid with 32 gallons lo--surf 300, 32 gallons HAI85 and 155 gallons SGA-H7 with 300 standard cubic feet of nitrogen/barrel in 5 stages, with 13 ball sealers between each stage. Maximum pressure 5820 psig, average pressure 5400 psig, average injection rate 5 BPM. ISDP 4180 psig in 15 minutes 3750 psig. Load to recover 410 barrels. Open to pit at 3:45 PM on 32/64" choke. At 4:15 PM flowing acid water with trace of oil, at 5:00 PM FTP 150 psig on 32/64" choke, recovered acid water with trace of oil. At 6:00 PM TP 10-25 psig on 32/64" choke recovering intermittent slugs acid water with trace of oil. Left flowing to pit with watchman overnight. Recovered estimated 75 barrels load.

8/14/90: From 6:00 PM until 10:00 PM 8/13/90 recovered additional estimated 10 barrels load water and well died. 7:30 AM well dead. Rigged up swab. Swabbed for 10 hours and recovered 165 barrels of acid water with oil cut increasing from a trace to 10%. Initial fluid level at surface. Last 4 hours fluid level stabilized at 5600' from surface. Gas increased last 2 hours to a good blow between runs. 160 barrels load to recover. Shut down at 6:00 PM.

8/15/90: 13 hour SITP 600 psig, blew down in 10 minutes, no fluid. Rig up and ran swab, fluid level at 1800' from surface. Made 100% oil on first run, 80% oil on second run, decreased to 2-3% oil by 5th swab run. Made a total of 32 runs in 9.5 hours. Oil increased from 2% to 25% from run 26 - 32. Fluid level range from 6400' - 5800' from surface. Recovered estimated 112 barrels of load water and 14 barrels oil, gassy. Final fluid level at 5800' from surface. 48 barrels load to recover. Shut in and shut down at 5:30 PM.