

ROBERT N. ENFIELD  
HUDSON FEDERAL NO. 2  
LEA COUNTY, NEW MEXICO  
ACIDIZE PRODUCING ZONE  
PAGE -1-

9/4/90: Day -1-  
Tested anchors and replaced 1 anchor. SITP 700 psig, SICP 1100 psig. Opened well and flowed to tank. Pumped 150 barrels 190° water down annulus with well flowing. Casing on vacuum. Flowing Tubing pressure 75 psig. Rigged up Pride Well Service and ran paraffin knife to 1200', no paraffin. Ran swab, could not get below 1900'. Pumped 60 barrels hot 2% KCl water to kill well. Remove tree and install BOP. Released Anchor catcher and pulled 10 stands of tubing. Shut in and Shut down at 6:00 PM.

9/5/90: Day -2-  
Finished pulling out of the hole with tubing. Found light paraffin in tubing at 1900'. The mud anchor and 2 joints of tubing above the seating nipple were 90% filled with cement debri. Went in the hole with Model "R" DG packer and tubing, testing tubing to 8000 psig. Shut in and shut down for night.

9/6/90: Day -3-  
Ran BOP and installed tree, set packer at 11,933', with 23,000# compression. Halliburton loaded annulus with 60 barrels 2% KCl water. Treated the Strawn from 11,994 - 12,192' with 12,000 gallons 20% NEFE Acid in 4 stages with 1500 gallons 2% KCl water and 35 balls between each stage with 500 standard feet of nitrogen. Maximum pressure 7000 psig, average 6620 psig, average rate 3 1/2 BPM. ISDP 5960 psig, in 15 minutes 5960 psig. Load to recover 440 barrels. Treatment complete at 12:30 PM. Open to flow to tank at 1:05 PM. Flowed well for 4 1/2 hours. Recovered 96 barrels fluid, no oil, no fluid recovery last 1/2 hour only nitrogen. Left well open to tank overnight. Load to recover 344 barrels.

9/7/90: Day -4-  
The well flowed 28 barrels load water to tank overnight. Swabbed for 9 hours, initial fluid level 3200' from surface. Final fluid level scattered fluid from 6500' to seating nipple. Recovered 92 barrels fluid with 3' - 15' gas flare after second hour and 20-25% oil after third hour. Recovered 600' and 450' of fluid last 2 swab runs. Shut well in at 4:30 PM.

9/8/90: Day -5-  
Overnight SITP 650 psig. Bled down in 3/4 hours on 12/64" choke with no fluid to surface. Went in the hole with swab and hit fluid at 8000' from surface. First swab run 70% oil, second run 25% oil. Made 11 runs in 6 hours and recovered 18 barrels water and 12 barrels oil swabbing from seating nipple. Lost swab, sinker bars and 30' of swab line on 7th run. Swab hung up at 11,000'. Total recovered to date 244 barrels load water and 22 barrels of oil. 216 barrels load to recover. SIFN at 4:00 PM.

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