

## N. DALE NICHOLS

BOX 1972

MIDLAND, TEXAS 79702

N. Dale Nichols

J. Kyle # 1

Section 26, T7S, R28E Chaves County, N.M.

## Well Completion Data

Paragraph 12 of C-103 dated 9-21-98

- 1). RU completion unit. Ran 2 3/8" tubing to PBTD of 2688' and displaced all fluid with 2% KCL water.
- 2). RU Schlumberger, ran tie in log, CCL and cement bond log. Good bond and top cement 1664'.
- 3). Perforated P3 Zone of the San Andres Slaughter with 2 shots per foot from 2622' to 2630', 2634' to 2642' and 2646' to 2650'.
- 4). Acidized P3 with 3000 gallons 28% HCL at 3.6 BPM and 3200 psi., ISIP 2180 psi., 5 minute SIP 2050 psi., 10 minute SIP 1990 psi., 15 minute SIP 1960 psi., SI 40 minutes and load to recover 93 BW.
- 5). Flowed and swabbed 48 barrels load water, and swabbed dry with slight show gas.
- 6). Fractured P3 with 17,000 gallons cross link jell and 38,000 pounds sand at 20.7 BPM and 3025 psi., total load 500 BW.
- 7). Flowed and swabbed 453 BLW in 10 days and recovered gas at the rate of 11 MCFPD.
- 8). RU Gray Wire Line and ran injection profile using Co2. All fracture material had stayed in zone.
- 9). Flowed Co2 and water with estimated gas rate 20 MCFPD.
- 10). RU Schlumberger and re-perforated P3 with 4 holes per foot at 2622' and 2636' to 2640'.
- 11). Acidized P3 with 1500 gallons 28% HCL and 1000 gallons mutual solvents.
- 12). Swabbed and flowed all load and gas at an estimated rate of 100 MCFPD.
- 13). PB to 2600' with frac sand and perforated P2 with 4 shots per foot from 2513' to 2515', 2520' to 2524', 2527' to 2530', 2535' to 2537', 2539' to 2541', 2550' to 2555' and 2564' to 2566'.
- 14). Acid fractured P2 with 6000 gallons jelled 15% HCL and 164,000 SCF nitrogen at 3.6 BPM and 2800 psi. Total 145 BW and 165 MCFG.
- 15). Flowed and swabbed all load and SI for pressure build up. Build up 420 psi in 5 days.
- 16). Equipped well to pump. Pumped 408 barrels formation water in 10 days. Final gauge 35 BW and 17 MCFGPD.
- 17). Pulled rods and tubing. Ran tubing and washed out sand plug back to 2652'. Lost 194 barrels KCL water to formation.
- 18). Equipped to pump.
- 19). Pumped 194 BLW and 319 BFW in 12 days. final gauge 35 BFW and 11 MCFGPD.
- 20). SI for pressure build up.

Signed N. Dale Nichols