

- 2 ppg 20/40 mesh sand, 3000 gallons with 3 ppg 20/40 mesh sand, and 3000 gallons with 4 ppg 20/40 mesh sand. Max. press: 5200 psi; Avg. press: 5100 psi; AIR: 21 BPM; ISIP: 1480 psi; 15 Min. SIP: 1410 psi.
- 12) Swab and pump tested well for six weeks. In final 72 hours of testing period, well produced 88 BO and 91.4 BW.
 - 13) Set CIBP at 6590'. Tested plug to 1000 psi. Held ok.
 - 14) Went in hole with 4 1/2" casing guns. Perforated from 6396'-6401' with 2 JSPF (6 feet, 12 holes).
 - 15) Ran in hole with 5 1/2" packer and 2 7/8" workstring to 6240'. Set packer. Acidized perforations 6396'-6401' with 3000 gallons 15% NE-FE and 18 ball sealers. Formation broke at 3500 psi. Max. press: 4900 psi; Min. press: 2500 psi; Avg. press: 3500 psi; AIR: 3.8 BPM; ISIP: 1500 psi; 15 Min. SIP: 1400 psi.
 - 16) Swab tested well.
 - 17) Fractured perforations 6396'-6401' down 5 1/2" casing with 20000 gallons crosslinked gelled 2% KCL, 26000 lbs. 20/40 mesh sand, and 4000 lbs. 12/20 mesh resin-coated sand. Frac consisted of 8000 gallons pad followed by 3000 gallons with 1 ppg 20/40 mesh sand, 3000 gallons with 2 ppg 20/40 mesh sand, 3000 gallons with 3 ppg 20/40 mesh sand, 2000 gallons with 4 ppg 20/40 mesh sand, and 1000 gallons with 4 ppg resin-coated sand. Max. press: 2300 psi; Min. press: 1870 psi; Avg. press: 2000 psi; AIR: 10 BPM; ISIP: 1090 psi; 15 Min. SIP: 1020 psi.
 - 18) Ran in hole with 4/34" bit and 2 7/8" workstring to 6403'. (CIBP, originally set at 6590', had moved up during frac job.) Drilled on CIBP and pushed it to 6718'.
 - 19) Went in hole with CIBP and set it at 6616'. Ran production equipment. Bottom of mud anchor at 6472', seating nipple at 6436', and tubing anchor at 6274'.
 - 20) On 24 hour potential test ending on December 3, 1987, well pumped 119 BO, 109 BW, and 168 MCF. GOR: 1411; API gravity: 35.3° at 60°; pump size: 1 3/4"; SL: 120" SPM: 12; perforations: 6396'-6401'.