stub at 2,471', rotated patch over 7" stub, shouldered patch with 20,000# load, energized grapple and seals with 40,000# tension over string weight, reduced tension to 10,000# over string weight and set slips. Rigged down Bull Rogers. Set slips on 7" casing, with 74,000#. Removed 10" 900 BOP and cut off 7" casing above 11" 3M flange. Installed packing and a 11" 3M \times 7-1/16" 3M tubing spool. Tested packoff to 2,500 psi. Installed a 6" 900 manual BOP. TIh with a 6-1/8" drill bit. Rotated and reciprocated mill through patch, with no indication of tight spots. TIH with a 7" Elder fullbore packer & tested casing from 0' to 2,474' to 720 psi for 5 mins. with no pressure loss. Tested casing from 2,627' to 3,680' to 640 psi for 5 mins., with no pressure loss. Tested casing from 0' to 2,627'. Pressure decreased from 600 psi to 520 psi in 11 mins. Leak interval remains 2,474' to 2,627'. TOH with packer. Halliburton established circulation through casingtubing annulus. Pumped 5 bbls. fresh water followed by 50 sks. micro mattrix cement (S.W. = 12.0 PPG, Y = 1.21 cu. ft./sk.), at 2.5 BPM and 100 psi. Spotted cement plug from 2,649' to 2,373'. TIH with a 6-1/8" drill bit. Tagged top of cement at 2,497'. Established reverse circulation at 2.5 BPM and 200 psi. Drilled cement from 2,497' to 2,650'. Circulated clean and pressure tested casing from 0' to 3,680'. Pressure remained at 520 psi for 30 mins. T0h with bit. WEllbore accepted into NMGSAU as a useable wellbore. Schlumberger RIh with a 4" casing gun loaded with four jet shots. Perforated 3' below casing patch skirt at 2,475'. TIH with a 7" Elder fullbore packer set at 2,016', and established circulation through perforations at 2,475' and through intermediateproduction casing annulus at 2.5 BPM and 500 psi. Pumped 30 bbls. fresh water, dropped 6 oz. green dye and followed with 113 bbls. fresh water. Had dye recovery to pit, after 100 bbls. pumped. Halliburton pumped 250 sks. class "C" slurry with 4% Bentonie Gel and 0.3% CFR-3 (S.W. = 13.5 PPG, Y = 1.69 cu.ft/sk.) followed by 100 sks. class "C" slurry with 2%CACL2 and 0.3% CFR-3 (S.W. = 14.8 PPG, Y = 1.32 cu. ft./sk.) at 3.5 BPM. Had good cement returns to pit. Circulated 42 sks. to pit, left 32 sks. in 7" casing and left 276 sks. between 7" and 9-5/8" casing strings. TOH with packer. TIn with a 6-1/8" drill bit. Checked top of cement at 2,257' and drilled out cement from 2,257' to 2,487'. Circulated clean and pressure tested casing from 0' to 3,680'. Pressure decreased from 510 psi to 495 psi in 31 mins. Tagged top of fill at 3,665'. Cleaned out cement cuttings and milled casing from 3,665' to 3,679'. Drilled from 3,679' to 3,680' on CIBP. Circulated clean. Drilled on CIBP from 3,680' to 3,681'. TIh with drill bit to 3,963' and TOH. TIH with 7" Baker tubing anchor catcher, with 45,000# shear pins, 2-7/8" SN, 2-1/2" x 2-1/4" pump barrel, and 2-7/8" tbg. Removed 6" 900 manual BOP. Installed wraparound, 7-1/16" 3M tubinghead flange and slips. Set TAC at 3,715', with 14,000# tension and bottom of tubing at 3,748'. TIh with a 2-1/4'' x 4' pump plunger & rods. RDPU, cleaned location & resumed prod. well.

Test of 05-12-93: Prod. 6-BO, 549-BW and 16-MCFGPD in 24 hours.