

06-17-94 Thru 06-28-94 Continued

DA&S rigged up pulling unit and pumped 30 bbls. fresh water to kill the well. TOH w/rods and pump. Removed wellhead and installed 6" 600 BOP. TOH w/127 jts. of 2-3/8" tubing. Rig up Schlumberger Wireline Service. TIH w/4-1/2" 16.6# CIBP and set at 3,755'. TIH w/Wireline dump bailer and spot 20' of cement on top of CIBP. Rig down Schlumberger. TIH w/4-1/2" 16.6 lock set packer and 119 jts. of 2-3/8" tbg. Circulate casing clean w/50 bbls. fresh water. Set packer at 3,691' and test CIBP to 1,100 psi. Held OK. Tested up 4-1/2" casing and verify leaks between 3,507' and 3,572'. Established rate into leaks at 2.3 BPM at 800 psi. TOH w/122 jts. of 2-3/8" tubing and packer. Ran a spear w/a 4-1/2" 16.6 grapple and pulled 60,000# of tension. Cut and removed old wellhead down to 7-5/8" intermediate casing and replace w/a new one. Test wellhead to 2,500 psi. Installed 6" 900 bop. TIH w/7" 24# cement retainer on 109 jts. of 2-3/8" tubing. Rig up Halliburton Service and pumped 20 bbls. fresh water through retainer. Set cement retainer at 3,409' and test 2-3/8" tubing to 2,500 psi. Pumped a 10 bbl. fresh water pad and 150 sacks of Premium Plus cement. Pump 1 bbl. fresh water displacement and cement locked up at 1,350 psi. Pumped 92 sacks into leaks, leaving 8 sacks in the casing and 50 sacks pumped to the pit. Max. press.-1,350 psi and AIR-2.0 BPM. TOH w/tubing. TIH w/3-3/4" bit, bit sub, 6 3-1/8" drill collars and 105 jts. of 2-3/8" tubing. Tag top of cement at 3,395'. Drill cement to 3,404'. Drill cement retainer from 3,404' to 3,410' and circulate casing clean. TOH w/105 jts. of 2-3/8" tubing, drill collars and bit. TIH w/new 3-3/4" bit, bit sub, 6 3-1/8" drill collars and 105 jts. of 2-3/8" tubing. Drilled hard cement from 3,410' to drill out at 3,535'. Ran the bit to 3,581' and circulated clean. Pressured up on the casing to 600 psi for 36 mins. Held OK. Ran the bit to 3,742' and drilled soft cement to the CIBP at 3,762'. Drilled the CIBP loose and pushed to 4,010', 19' off TD. Pulled the bit to 3,772'. Note: Well passed the NMGSAU casing integrity test. Pushed the CIBP to 4,020'. TOH laying down the 2-3/8" work string. Ran 128 jts. of 2-3/8" tubing and set the SN OE at 4,000'. Ran a 20 x 125 x RHBC 6 x 3 x S x 4 pump #A-1093 on 100 5/8" rods and 59 3/4" rods. Loaded the tubing w/10 bbls. fresh water and checked the pump action. Installed wellhead connections to the flowline and set the pumping unit. Returned the well to production. Rigged down pulling unit and cleaned location.

Test (24 Hours): 2 BOPD, 2 BWPD, AND 150 MCFPD