

05-23-94 Thru 06-16-94 Continued

Installed 6" 900 BOP. TIH w/retrieving tool and 20 jts. of 2-7/8" tubing. Circulate sand off of RBP. Latched onto and released RBP. TOH laying down 20 jts. of 2-7/8" tubing and RBP. TIH OE w/95 jts. of 2-7/8" tubing. TOH laying down 95 jts. of 2-7/8" tubing. (Work string.) TIH w/73 jts. of 2-7/8" production tubing. TOH laying down 73 jts. of 2-7/8" production tubing. Rig up Bull Rogers casing crew. TIH w/4-1/2" Baker tie back stem, 1 jt. of 4-1/2" 11.60 4-1/2" casing, 4-1/2" float collar and 54 jts. of 4-1/2" 11.60 casing. Made up 4-1/2" casing w/optimum torque of 1,800. Continued TIH w/29 jts. of 4-1/2" long thread K-55 11.60 8rd liner for a total of 83 jts. Made up 4-1/2" casing w/18,000# optimum torque. Stung into liner hanger at 3,591'. Circulate 125 bbls. fresh water. Halliburton Service rigged up and pumped a 20 bbl. fresh water pad and 800 sacks of Premium Plus cement. Pumped plug and displace 4-1/2" casing w/55 bbls. fresh water. Circulate good cement between 4-1/2" casing liner and 7" casing. Also circulated good cement to the surface of the 9-5/8" int. casing. max. press.-1,550 psi. Min. press.-300 psi. AIR-4.2 BPM. Pumped 347 sacks between 4-1/2" casing liner and 7" casing, 323 sacks between 7" casing and 9-5/8" int. casing and pumped 130 sacks to the pit. Rigged down Halliburton Service. Removed 6" 900 BOP. Set slips on 4-1/2" casing w/15,000 string weight on tie-back stem and 15,000# of tension on 4-1/2" slips for a total string weight of 32,000. Cut off 4-1/2" casing jt. and installed wellhead. Installed 6" 900 BOP. TIH w/3-7/8" bit, bit sub, 6 3-1/8" drill collars and 105 jts. of 2-3/8" tubing. Tag top of cement at 3,408'. Drilled good cement from 3,408' to 3,500'. Drilled 4-1/2" wiper plug at 3,500'. Continued to drill good cement from 3,500' to 3,546' and float collar from 3,546' to 3,547'. Continued to drill good cement from 3,547' to 3,589'. Circulated casing clean. Continue to drill cement and tie-back stem to 3,590'. Drilled cement stringers to 3,618' and circulated casing clean. Test 4-1/2" casing to 560 psi. Pressure decreased to 540 psi in 31 mins. Note: Well passed NMGSAU casing integrity test. Tag CIBP at 3,737' w/115 jts. of 2-3/8" tubing and 6 3-1/8" drill collars. Drilled CIBP loose and chased it down to 3,915'. Drilled CIBP at 3,915' to 3,930' and circulate casing clean. Pulled up to 3,806' w/117 jts. of 2-3/8" tubing. Tagged up on junk at 3,930'. Circulated casing clean. TOH w/121 jts. of 2-3/8" tubing and laid down 6 3-1/8" drill collars and bit. TIH w/2-3/8" 8rd bull plug, 2-3/8" x 12' tubing sub, 2-3/8" x 4' perf. sub, 4-1/2" x 2-3/8" fullbore packer, 2-3/8" sliding sleeve and 114 jts. of 2-3/8" tubing. Tag up at 3,580' at tie-back stem. Packer would not go past 3,580'. TOH w/tubing. TIH w/3-7/8" long tapered bottom hole mill and 116 jts. of 2-3/8" tubing. Rig up power swivel and mill through tight spot at 3,580' to 3,583'. TOH w/116 jts. of 2-3/8" tubing and mill. TIH w/2-3/8" bull plug, 2-3/8" x 12' tubing sub, 2-3/8" x 4' perf. sub, 4-1/2" x 2-3/8" fullbore packer, 2-3/8" F nipple, 1 jt. of 2-3/8" tubing, 2-3/8" sliding sleeve, and 124 jts. of 2-3/8" tubing. Left packing unset at 3,871'. Bull plug at 3,888'. Made 2 swab runs. Found fluid level at 3,400' for a total of 10 bbls. water and no oil. Lowered Fluid level to 3,550'. Set fullbore packer at 3,871'. Rig up Jarrel Wireline Service. TIH w/1st pressure bomb to 3,876'. TIH w/2nd pressure bomb to 3,842'. Jarrel Service TOH w/both pressure

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bombs. Perfs. from 3,889' to 3,918' - BHP started at 377.6 and in 24 hours dropped to 265.1. Perfs. from 3,826' to 3,858' - BHP started at 368.6 and in 24 hours dropped to 265.1. Fluid level at 3,400'. Rig down Jarrel Wireline Service. TOH w/tubing and packer. TIH w/FTI sonic hammer on 126 jts. of 2-3/8" tubing. Performed FW wash on perf. intervals from 3,826' to 3,858' and from 3,889' to 3,918' at 3.5 BPM w/30 bbls. fresh water. Schlumberger perforated 4-1/2" liner w/2 shots per ft. at the following intervals: 3,788' to 3,796' / 3,804' to 3,808' / 3,816' to 3,826'. Total perforated intervals are from 3,788' to 3,918'. Began acidizing and moving tool across perforation intervals w/4,000 gals. of 15% NEFE HCL w/3% DP-77-MX. Max. press.-880 psi, min. press.-220 psi, max. casing press.-400 psi and final casing press.-0 psi. Total load = 126 bbls. Flushed w/30 bbls. fresh water. Dropped ball to shift sleeve on PCT tool. Rig down Serfco. Began swabbing. Made 14 swab runs for a total of 0 bbls. oil, 63 bbls. water and no gas. Starting fluid level at 1,750'. Swabbed well down to 2,000'. TOH w/126 jts. of 2-3/8" tubing and PCT tool. TIH w/2-3/8" SN and 126 jts. of 2-3/8" tubing to 3,903'. Rig up swab and found starting fluid level at 3,100'. Made 14 swab runs and recovered 15 bbls. of water and no oil w/a slight show of gas. final fluid level at 3,700'. TOH w/tubing. TIH w/2-3/8" SN, 6 jts. of 2-3/8" tubing, 4-1/2" x 2-3/8" TAC, and 119 jts. of 2-3/8" tubing. SN set OE at 3,892'. TAC set at 3,705' w/14,000# of tension. Removed BOP and installed wellhead. TIH w/sucker rod pump #A-1174, 2" x 1-1/4" RHBC 6' x 3' x S x 4' on 152-3/4" sucker rods, 2 3/4" x 6' pony rods, 2 3/4" x 4' pony rods and a 1-1/4" x 16' polish rod w/a 1-1/2" x 8' polish rod liner. Rod boxes and pin threads chased and lubricated w/corrosion inhibitor and oil and made up w/rod tongs. Loaded tubing to 500 psi and checked pump action. Rigged down pulling unit and cleaned location. Resume producing well.

Test (24 Hours): 1 BOPD, 51 BWPD AND 15 MCF