

NMGSAU #2205 04-02-93 Thru 04-08-93 / 11-12-93 Thru 12-16-93

not swab fluid below 1,700'. TOH with tbg. and packer. Halliburton ran a 7" cement retainer on 66 jts. of 2-7/8" tbg. Pumped 12 BW through the retainer, set the retainer at 2,077'. Established a rate into the casing leak at 3.5 BPM and 900 psi. Cement squeezed the 7" casing leak with 200 sks. of Class "C" neat cement with 2% Calcium Chloride. Max. press.-1,000 psi, min. press.-700 psi and AIR-2 BPM. Pumped 182 sks. into the leak, left 9.3 sks. in the casing and reversed out 8.4 sks. TOH with tbg. Ran a 6-1/8" bit on 1 4-3/4" drill collar and 57 jts. of 2-7/8" tbg. Broke circ. and drilled out the cement retainer at 2,077', drilled good cement from 2,078' to 2,147', soft cement from 2,147' to 2,152' and stringers from 2,152' to 2,215'. Circ. clean. Checked tbg. press. at 480 psi, opened tbg. to the pit, flowed back 15 BW. Established a rate into the casing leak at 1.8 BPM, 900 psi with 15 BFW. TOH with tubing, DC and bit. Halliburton ran a 7" cement retainer on 66 jts. of 2-7/8" tbg. Pumped through the tool with 12 BFW. Set the retainer at 2,072' and tested the tbg. to 2,500 psi. Established a rate into the csg. leak at 2 BPM, 750 to 1,000 psi with 5 BFW. Pumped 20 bbls. of CACL2 H2O, a 2 bbl. fresh water spacer, 12 bbls. of flo-check, a 2 bbls spacer, 50 sks. of THX-0-Tropic cement and 100 sks. of class 'c' neat cement with 2% calcium chloride, displaced with 11 BFW. Max. press.-1,100 psi, min. press.-700 psi, AIR-2 BPM. Pumped 131 sks. in the formation, left 17 sks. in the casing and 2 sks. to the pit. TOH w/tbg. Ran a 6-1/8" bit on 10 4-3/4" drill collars and 57 jts. of 2-7/8" tbg. Tagged the cement retainer at 2,072'; drilled out the cement retainer and good cement to 2,100'. Circulated clean. Drilled hard cement from 2,100' to 2,155'. Fair cement from 2,155' to drillout at 2,175'. Circulated the casing clean and tested to 560 psi for 35 minutes. Held ok. Ran 45 jts. of 2-7/8" tbg. for a total of 102 jts. and tagged up at 3,448'. Cleaned out cement cuttings and sand down to the RBP at 3,504'. Circulated clean. TOH w/tubing, drill collars and bit. Laid down the drill collars. Ran a retrieving head on 112 jts. of 2-7/8" tubing and circulated the top of the RBP clean. Released the RBP and pulled to 2,727'. Plug hung up. Worked the plug free and pulled tubing w/plug dragging to 6,000 psi above the tubing weight to 2,214'. Pulled the tubing out of the hble and left the plug and the bottom half of the retrieving head in the hole. Ran the retrieving head on 71 jts. of 2-7/8" tubing and tagged up on the RBP at 2,214'. Attempted to latch back onto the plug w/no results. TOH w/tubing and retrieving head. Ran a 4-3/4" shoe on 69 jts. of 2-7/8" tubing and tagged up at 2,146'. Circulated clean with 25 bbls. fresh water. TOH w/tbg. and shoe. Ran a 6" lead block on 69 jts. of 2-7/8" tbg. and tagged up at 2,146'. Had a tight spot at 2,074'. TOH w/the lead block. Had impression on both sides of the block indicating the casing is collapsed. Ran 99 jts. of 2-7/8" tbg. o.e. through the tight spot at 2,146'. and tagged up at 3,064'. TOH w/tbg. The 3 29/32 2-7/8" couplings were dragging through the collapsed casing at 2,146'. Ran a 6-1/4" OD swage, a 4-3/4" bumper sub, 4-3/4" johnson jars, 6 4-3/4" drill collars and 60 jts. of 2-7/8" tbg. and tagged up on the tight spot at 2,074'. Swaged out the casing from 2,074' to 2,076.5'. Pulled 8 jts. of tbg. and left tools swinging at 1,826'. Swaged out the 7" casing from 2,076' to 2,093'. Swage fell free. Tagged up at 2,146' and swaged out the casing to 2,151'. Ran the swage down the hole to 2,213'. Pulled the swage back to 2,146' and worked back and fourth through the tight spot. Pulled 20,000 psi above the tubing weight to pull the swage through. Was unable to free up the tight spot from 2,146' to 2,147'. TOH w/tubing and tools. Ran a 6-1/4" swage, a 4-3/4" bumper sub, 1 4-3/4" drill collar, a 4-3/4" string mill, 4-3/4" Johnson jars and 5 4-3/4" drill collars on 62 jts. of 2-7/8" tubing. Tagged the tight spot at 2,148'. Worked the swage through the tight spot and tagged up w/the string mill. Miled out the 7" casing from 2,148' to 2,150'. Recovered metal cuttings and formation. TOH w/tubing and tools. Ran a 4-3/4" shoe, 4-3/4" jars, 6 4-3/4" drill collars and 92 jts. of 2-7/8" tubing. Tagged up on fill at 3,050'. Broke circulation and cleaned out fill to the top of the RBP at 3,074'. Recovered cement and formation. Pulled the shoe to 2,024'. Ran the 4-3/4" shoe and tagged up on the RBP at

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3,074'. Found no fill. Circulated clean w/50 bbls. fresh water. TOH w/tbg. and tools. Ran a short catch retrieving head on 4-3/4" jars, 6 4-3/4" drill collars and 92 jts. of 2-7/8" tbg. Latched onto and released the RBP at 3,074'. TOH w/tbg., tools and RBP. Ran a 7" x 2-7/8" Baker fullbore packer on 71 jts. of 2-7/8" tbg. and set at 2,219'. Loaded the casing above the packer w/69 bbls. fresh water. Established a rate into the 7" casing leak at 2,148' at 2 BPM, 700 PSI w/10 bbls. fresh water. Released the packer. TOH w/tubing and packer. Schlumberger ran a 5,687' gauge ring and junk basket to 3,550'. TOH w/gauge ring and junk basket. Ran a 7" CIBP and set at 3,530'. Rigged down Schlumberger. Ran a 7" x 2-7/8" fullbore packer on 111 jts. of 2-7/8" tubing and set at 3,475'. Loaded the tubing w/10 bbls. fresh water and tested the CIBP to 1,500 psi. Held OK. TOH w/tubing and packer. Halliburton ran a 7" cement retainer on 65 jts. of 2-7/8" tbg. Pumped 12 bbls. fresh water through the retainer and set at 2,044'. Pumped 20 bbls. of calcium chloride water, a 2 bbl. fresh water pad, 12 bbls. of flo-check, a 2 bbl. pad, 50 sks. of Thex-O-Tropic cement and 100 sks. of Class "C" neat cement w/2% calcium chloride. Displaced to the csg. leak w/17 bbls. fresh water and cleaned the csg. leak w/10 bbls. fresh water. Well on vacuum 11.5 bbls. displacement pressure increased to 900 psi on the last 16.5 bbls. fresh water pumped. Shut down and waited 2 hrs. Pumped a 50 bbl. fresh water pad followed w/200 sks. of Class "C" neat cement w/2% calcium chloride. Displaced w/11 bbls. fresh water. Maximum press.-1,500 psi, min. press.-700 psi, AIR-1 BPM. Stung out of the retainer and reversed out 4 sks. of cement. Left 21 sks. in the casing and 325 sks. in the formation. TOH w/tubing. Waiting on cement. DA&S ran a 6-1/8" bit on 6 4-3/4" drill collars and 60 jts. of 2-7/8" tbg. Tagged up on the cement retainer at 2,044'. Star Tool broke circulation and drilled out the cement retainer from 2,044' to 2,066' and soft cement from 2,046' to 2,066'. Circulated clean. Pulled bit to 2,014'. Drilled hard cement from 2,066' to 2,151'. Had an increase on pump pressure to 500 psi. Flowed back 23 BW into the reverse pit. Drilled hard cement from 2,151' to 2,165' and stringers to 2,179'. Ran the bit to 2,226' and circulated clean. Established a rate into the casing leak at 2 BPM and 950 psi. Flowed back 20 BW. Waited 1 hour and flowed back 3 BW. Pulled the bit to 1,944'. Ran the 6-1/8" bit and tagged up on the CIBP at 3,520'. Circulated the top of the CIBP clean. TOH w/tbg., drill collars and bit. Laid down the 4-3/4" drill collars. Ran 112 jts. of 2-7/8" tbg. o.e. and set at 3,515'. Swabbed 60 BW from the casing w/24 trips from 3,000'. Swabbed the fluid level down in the 7" casing to 2,500'. Recovered 100 bbls. fresh water for a total of 163 bbls. water. TOH w/tubing. Ran a 3-1/2" drilling bailer and knocked the CIBP loose at 3,530' and pushed to TD at 3,829'. Ran a 2-7/8" SN, 1 jt. of 3-1/2" salt lined tubing and 120 jts. of 2-7/8" tubing set o.e. at 3,788'. Ran a 2-1/2" x 2' RWBC 12 x 4 x S x O pump #A-1133 on 2 1-1/2" weight bars and 148-3/4" rods. Star Tool loaded the tubing w/10 bbls. fresh water and checked the pump action. Installed the wellhead connections to the flow line and started the well pumping.

Well Test (24 Hours): 1 BOPD, 185-BWPD, 5-MCF