

tubing to 1,986'. Pumped through the retainer w/20 bbls. of fresh water. Set the retainer and tested the tubing to 2,500 psi. Held OK. Loaded the casing w/15 bbls. of fresh water and pressure to 500 psi. Pumped a 5 bbl. fresh water pad and squeezed 5-1/2" casing leaks from 2,080' to 2,081' w/600 sacks of Premium Plus cement w/2% calcium chloride. Displaced w/10-1/2 bbls. of fresh water. Max. press.-1,250 psi, min. press.-800 psi, AIR-1.5 BPM. Reversed out 6 sacks to the pit, left 13 sacks in the casing and 581 sacks in the formation. TOH w/tubing. TIH w/4-3/4" bit, bit sub, 12 3-1/2" drill collars and 50 jts. of 2-7/8" tubing. Tag top of cement at 1,980'. Drilled cement to 1,983' and cement retainer from 1,983' to 1,986'. Drilled soft cement from 1,986' to 2,020'. Circulate casing clean. Continue drilling cement from 2,020' to 2,127' and drilled stringers to 2,146'. Circulate 5-1/2" casing clean. Test casing to 500 psi. Pressure decreased 100 psi in 20 minutes. TIH OE w/66 jts. of 2-7/8" tubing to 2,143'. Halliburton Service rigged up and circulated 20 bbls. fresh water and then spotted 45 sacks of Micro-Matrix cement across leak intervals from 2,080' to 2,081'. Pulled up to 1,558' w/48 jts. of 2-7/8" tubing and circulate casing clean. TOH w/48 jts. of 2-7/8" tubing. TIH w/5-1/2" fullbore packer and 44 jts. of 2-7/8" tubing and set at 1,428'. Pressure up casing to 500 psi. Squeezed leaks putting 1.2 sacks into formation leaving 43.8 sacks in casing. Max. press.-850 psi and mins. press.-650 psi. Rigged down Halliburton Service. TOH w/44 jts. of 2-7/8" tubing and a 5-1/2" fullbore packer. TIH w/4-3/4" skirted bit, bit sub, 6 3-1/2" drill collars and 47 jts. of 2-7/8" tubing. Tag top of cement at 1,704'. Drill soft cement from 1,704' to 2,111' and stringers to 2,122'. Circulate casing clean. Test casing to 500 psi for 33 minutes. Pressure remained at 500 psi. Note: Well passed the NMGSAU casing integrity test. TOH w/tubing, drill collars and bit. TIH w/retrieving head and 115 jts. of 2-7/8" tubing and circulate sand off of RBP. Latched onto RBP and TOH w/115 jts. of 2-7/8" tubing and RBP. TIH w/4-3/4" button bit, bit sub, 12 3-1/2" drill collars, top sub and 112 jts. of 2-7/8" tubing. Tag top of fill at 3,983' and cleaned out to 4,000'. Drilled out new open hole from 4,000' to 4,028' w/2400 SCFM and 8 gals. per minute soapy water. Drill out pressure - 420 psi. circulate open hole clean for 3 hours. TIH w/8 jts. of 2-7/8" tubing and tag TD at 4,028'. Found no fill in open hole. TOH w/tubing and laid down drill collars and bit. Schlumberger Well Service rigged up and logged open hole w/GR/CNL/LDT/ and CCL w/caliper. TIH w/a FTI Sonic Hammer on 124 jts. of 2-7/8" tubing to 4,028'. Pumped a 30 bbl. fresh water pad and acidized the OH from 4,028' to 3,809' w/3,000 gals. of 15% NEFE acid containing 3% DP-77MX chemical. Worked the sonic hammer up and down across the OH. Displaced w/24 bbls. fresh water. Flushed the casing w/55 bbls. fresh water. Maximum press.-130 psi, Min. press.-0 psi, Average press.-90 psi, and AIR-4.0 BPM. Total Load-202 bbls. TOH w/tubing and tool. TIH w/5-1/2" x 2-7/8" fullbore packer on 116 jts. of 2-7/8" tubing. Set the packer at 3,776'. Swabbed 22 BW (No Oil) w/27 swab runs from 2,700'. F.L.-3,500' decreased to 3,600'. Fair blow of gas. Made 8 swab runs from a total of 11 bbls. of water (No Oil). Found fluid level at 3,650' and swabbed down to 3,700'. Had fail blow of gas. TOH laying down 122 jts. of 2-7/8" work string and 5-1/2" fullbore packer. TIH w/2" SN, 1 jt. of 2-7/8" salt lined tubing, 7 jts. of 2-3/8" tubing, 5-1/2" x 2-3/8" TAC, and 123 jts. of 2-3/8" tubing. Set SN OE at 4,009'. Set TAC at 3,758' w/14,000# of tension. Removed BOP and installed wellhead. TIH w/2" x 1-1/4" RHBC 8' x 4' x S x 4' sucker rod pump #A-1090, 93-5/8" sucker rods, 66-3/4" sucker rods, 2 3/4" x 2' sucker rods and a 1-1/4" x 18' polish rod w/a 1-1/2" x 8' polish rod liner. Pin threads and rod boxes chased and lubricated w/corrosion inhibitor and oil and made up w/rod tongs. Loaded tubing and tested to 500 psi. Rigged down pulling unit and cleaned location. Hooked up wellhead and flowline. Resumed prod. well. Test (24 Hour): 9 BOPD, 38 BWPD and 34 MCFPD.

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