

ATTACHMENT

CITIES SERVICE OIL AND GAS CORPORATION'S FEDERAL AB #3
SECTION 11-T18S-R33E, LEA COUNTY, NEW MEXICO

w/200 sacks of Class H w/2% CaCl_2 + 0.3% CFR-2 cement. Max press 5000#. Pulled out of retainer set @ 8600' and reversed out 72 sacks of cement. POOH w/tubing. Left 8 sacks of cement in the casing and got 120 sacks of cement into the formation. RIH w/RB, DC's on tubing and DO to 8682'. Tested casing to 1500# for 30 min. - OK. POOH w/RB, DC's and tubing. Perforated the Bone Springs Formation w/2 SPF @ 8671, 72, 73, 74, 75, 76 and 8677'. Total of 14 holes (0.37" dia and 14.70" pen in Berea). RIH w/tubing and RTTS and set RTTS @ 8555'. Swabbed -0- BO + 49 BLW/2 hrs. 14 hr. SITP 0#. Released RTTS set @ 8555' and RIH to 8680'. Spotted 500 gals 15% NeFe acid across Bone Springs Perfs @ 8671 - 8677'. Reset RTTS @ 8555'. Shut well in over night w/2000# on tubing and 500 gals 15% NeFe acid across perfs. Pressured tubing to 2600# in 200# increments with 30 min. SD between stages. Formation started taking acid @ 2600#. Bled off to 200# in 30 min. Repressed tubing to 2600# and let bleed off in steps until all acid displaced into the formation. 14 hrs. SITP 430#. Swabbed 25 BO + 35 BW/6 hrs. 14 hr. SITP 350#. Swabbed 16 BO + -0- BW/2 hrs. Released RTTS and POOH w/RTTS and tubing. Ran and set 2-7/8" tubing @ 8669'. Ran rods and BHP and put well on the pump. Pumped on NMOCD potential 44 BO + 3 BW/24 hrs., Grav. 38.30, Gas rate 26 MCFD, GOR 590.