

Doyle Hartman  
BRITT "A-6" NO. 1  
660' FSL & 660' FWL (M)  
Section 6, T-20-S, R-37-E  
Lea County, New Mexico  
Eunice Monument (G-SA)  
Federal Lease #LC-031621(a)

02-02-91 Moved in and rigged up Clarke Well Service unit. Pulled out of hole and laid down 143 - 3/4" Axelson rods and a 2-7/8" X 1-1/4" 16' insert pump. Pulled out of hole and laid down 124 jts of 2-7/8" OD 10 V tubing, 3' perforated nipple, 20' mud anchor and bull plug. Mud anchor was in bad shape. SDON.

02-03-91 Installed BOP. Picked up a 3' X 5-1/2" Halliburton E-Z drill cement retainer, 5.5' setting tool, 1.1' SN, and 115 jts of 2-3/8" OD, 4.7 lb/ft EUE 8 RD tubing (avg. jt. length = 31.31') and set retainer at 3609' RKB. Pulled out of retainer. Circulated hole. Pulled out of hole with tubing. Rigged up Dresser Atlas and logged hole with VERTILOG mechanical casing integrity log and Variable Density cement bond log. Also logged well with GRN-CCL log. Shut down for weekend and to evaluate.

The results from the Acoustic Cement Bond log indicated good cement bonding from 3609' RKB back to top of cement at approximately 2186' RKB.

A total of 11 jts in the production casing string have an integrity classification of less than Class 1 and all are backed up by cement except for one joint inside of the surface casing between 890-921.

02-05-91 Pick up Halliburton RTTS 5-1/2" packer, 1.1' SN and 30 jts tubing and GIH w/same. Attempt to set @ 939' RKB. RTTS not setting due to shallow depth and no backside pressure. POOH w/tbg, SN and RTTS.

Pickup EZ-Drill setting tool and GIH w/1.1' SN + 115 jts tubing. String into cement retainer at 3609' (pipe tally). Load backside with 450 psig. Start pumping down tubing into G1bg perfs 3620-3666 at 1/2 BPM @ 1000 psig. Increase rate up to 3-1/2 BPM @ 1825 psig. Pressure increased and broke from 2100 to 1825.

Start mixing Halliburton lite cement (12.7 #/gal, 1.34 cu.ft./sx). Start down hole with cement at 3-1/2 BPM, initial pressure 1825 psig. Dropped to 1200 psig. With 5 bbls of cement in formation to bottom perf pressured up to 3000 psig. Increase pressure and try flush. Zone squeezed off. Pull out of retainer, 13.9 bbls cement in tubing. (15.2 sx cmt into zone). Start pumping down csg-tbg annulus to reverse out cement. Left 10' of cement on retainer.

POOH w/tubing, SN and setting tool. Pick up 5-1/2" tension packer, SN + 30 jts tubing and GIH w/same. Set packer at 939' RKB and pump down tubing with backside loaded to 400 psig. Pressure up on tubing to 1500 psig and held 10 mins. - No leak off. Unseat