

1-8-91 Rig up Capitan Log Well with GRN-CCL log. Ran 7" Owens CIBP setting tool and casing collar locator. Attempt to set CIBP @ 3727' RKB but setting tool would not shear from CIBP. Pulled wireline out of rope socket. Ran in hole with 109 jts 2-3/8" tbg, 4' X 6-1/8' X 3-2/8" overshot, bumpersub, jars and 4 - 3-1/2" OD drill collars. Fish setting tool with overshot. Found CIBP defective. RIH with second CIBP and set at 3697' RKB. Loaded hole with 2% KCl water and attempted to pressure test casing. Able to pump into casing at rate of 1/2 BPM at 1750 psig. Shutdown and pressure bled off to 1360 psig. Apparent high pressure casing leak.

1-9-91 RIH with 7" OD Baker tension packer and 2-3/8" OD tubing to locate casing leak. In five steps pulled packer from 3697' RKB up to 2401' RKB. At each setting pressure tubing to 2000 psig and pressure held okay. Located leak between 2340' RKB and 2356' RKB. Apparent collar leak at 2345' RKB. POOH with packer and tubing. RIH with Halliburton 7" EZ drill cement retainer, 5.2' setting tool and 20 jts 2-3/8" tubing. Set cement retainer at 2310' RKB. Rigged up Halliburton and squeeze cemented casing leak with 50 sx of API Class-C cement containing 0.4% Halide-322 and 2% CaCl followed by 200 sx of API Class-C neat cement. Squeezed well at rate up to 3 BPM and 1800 psig and tailed in at rate of 1 BPM and 1150 psi. ISIP on squeeze was 900 psig.

1-10-91 While WOC, POOH with tubing and cement retainer. Pick up 6-1/8" rock bit + 4 - 4-1/2" drill collars + 67 jts 2-3/8" tubing. Tag top of cement at 2305.2' RKB. Lay down jts no. 67 and 66. SDON.

1-11-91 Rig up Chance Oil Tools reverse unit and drill cement and cement retainer from 2305' to 2381' RKB. Load hole and pressure test casing to 2650 psig. Held okay. GIH with additional joints of tubing and tag CIBP. Circulate hole with 2% KCl water. POOH with tubing, drill collars and bit. Rig up Capitan and perforate well with 26 shots, 3-1/8" OD select fire casing gun @:

3224	3351	3381	3410	3451	3513
3260	3360	3383.5	3423	3459	
3281	3365	3393	3432.5	3471.5	
3309	3371	3395	3436.5	3489	
3343	3375	3404.5	3445	3492	

RIH with 107 jts tubing and 7" RTTS packer. Spot 500 gals 15% MCA across perforations. Pull tubing and packer and set same at 3101' RKB. SDON

1-12-91 Acidize with additional 5600 gals 15% MCA with 35 ball sealers at average rate of 5 BPM and average pressure of 2650 psig. ISIP = 1000 psig, 4 min - Vac. Released packer and POOH with packer and tubing. RIH with 110 jts 2-3/8" tubing, SN and MA. Nipple up wellhead. Begin swabbing well to pit.

1-14-91 Landed tubing at 3610' RKB with 109 jts + SN + MA and ran 2" X 1-1/4" X 12' RWBC pump + 142 - 3/4" API Class KD rods. Installed American 80-119-64 pumping unit and place well to pumping at 9-1/2 X 64 X 1-1/4". Potentialled well at rate of 190 MCFPD on an 18/64 choke with a FCP = 109 psi.

Well flowing up tubing-casing annulus and pumping a trace of fluid up tubing.