

Rigged up Western Atlas and logged well with acoustic variable density cement bond log from TD to surface. Found obvious top of cement at 1770' RKB and a shift in amplitude curve from previous job from 1770' back up to 890' RKB. Shut down for night.

02-09-91 Ran into hole with a bit, casing scraper, 6 - 3-1/2" OD drill collars and 117 jts of 2-7/8" OD 6.5 lb/ft J-55 work string and tagged TD at 3593'. Pulled and laid down 2-7/8" OD tubing, 6 - 3-1/2" drill collars, casing scraper, and bit. Nippled up tubinghead and attempted to pressure test casing, but had a leak at the pack-off. Released pressure. Attempted to unscrew 5-1/2" X 2-7/8" tubinghead, but failed. Inserted 2-3/8" tubing mandrel and screwed down 5-1/2" tubinghead. Pressure tested casing to 800 psig. Pressure held okay. Rigged up Capitan Wireline Services and logged well with GRN-CCL log. Capitan found PBTD at 3600' RKB. Ran 3-1/8" select fire casing gun and perforated well with a total of 27 holes with one shot each at:

3129	3211	3234	3264	3343
3150	3214	3237	3267	3367
3164	3217	3241	3284	3369
3177	3220	3247	3286.5	
3196.5	3226	3253	3331	
3203	3229	3262	3339	

Ran into hole with a Halliburton 5-1/2 inch RTTS packer, 1.1' seat nipple, and 108 jts of 2-3/8" OD, 4.7 lb/ft, J-55, EUE tubing. Rigged up Halliburton and circulated hole with 79 bbls of 2% KCl water and spotted 3000 gal of 15% MCA acid across and above perforations from 3385' RKB back to approximately 3100' RKB. Pulled 12 jts of tubing and set packer at 3012' RKB. Shut down for night.

02-10-91 Pumped a total of 10 bbls of 15% MCA acid before catching pressure. Acidized well with an additional 7005 gal (Total = 7005 + 420 + 300 = 7725 gal) of 15% MCA acid at an average rate of 4 BPM and average pressure of 2880 psi. Maximum rate = 5.1 BPM and minimum rate = 2 BPM. Max. pressure = 3600 psi.

Released packer, dropped tubing below perforations to knock off ball seals, and then pulled out of hole with tubing and RTTS packer. Ran into hole with 103 jts of 2-3/8" OD, 4.7 lb/ft, J-55, EUE, 8RD tubing equipped with a 1.1' SN and an 18' MA and landed at 3250' RKB. Pumped 30 bbl of 2% KCl water. Installed a 5-1/2" X 2-3/8" type MR female-end tubinghead. Installed stripper rubber and buttoned up wellhead. Installed lubricator and started swabbing well to pit.

02-11-91 After being shut in overnight, SITP = 175 psig and SICP = 299 psig. Blew down tubing and continued to swab well to pit. After 28th swab run, lowered tubing 7 jts (total of 110 jts) to a depth of 3468' RKB.

02-12-91 Set American 80-119-64 pumping unit (S/N D-80G-2778NA). Installed an Oilwell 3-phase 20 HP NEMA D motor. Ran a 2-3/8" X 1-1/4" X 12' API Class K rods, 1 - 6' X 3/4" API Class K rod sub, and a 1-1/4" X 16' polish rod. Placed well to pumping at 9 X 64 X 1-1/4.