

FORMATION RECORD—Continued

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It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

HISTORY OF OIL OR GAS WELL

Spudded well on 1-9-60 with Verma Drig. Co. rotary tools. Ran 8-5/8" OD, J-55, 21# CFI, surface pipe to 372 feet and cemented w/265 ex reg. cement (circulated to surface). Cement set for 24 hrs. before drig. ahead. Cored from 4910 to 4953, cut 43 feet and recovered 39 feet, being 15 feet of anhydrite w/stringers of dolomite tan-grey finely xln w/pp porosity and sil. big. 0 & g and 2 1/2 feet of dolomite, tan-grey, finely xln with pp porosity and vertical fractures throughout bleeding sil. amount of oil, gas and water. Cored from 4953 to 5002, cut 49 feet and recovered 33 feet of dolomite w/anhydrite inclusions throughout, dolomite being tan-grey, finely xln, w/both pp porosity and highly fractured vertically throughout, and bleeding gas, oil and water throughout. Apparently lost 16 feet of core off the bottom section. Drid. out to 5009 ft. w/7-7/8" bit, circulated 2 hrs. and ran complete set of Welox electric logs. Ran 5008 ft. of 4 1/2" OD, J-55, 9.5#, pipe and a one-foot guideshoe to 5009 feet, circulated and cemented w/200 sx of 50-50 pozmix cement, two stages, 125 sx of 2% gel across bottom (pay section) and 75 sx of 1% gel through DV tool located at 3115 feet, up across Yates Sd. Both stages tested for 30 minutes and held. Drid. out cmt to 4995 feet and perforated w/4 shots per foot from 4927 to 4937 feet. Ran 2" EUE tubing to 4944 feet and set w/Halliburton R-3 packer located @ 4868'. Spotted acid in prep to acidize w/7500 gals. of Dowell acid petrac. Tested pkr. Pkr. did not hold. Came out of hole w/tubing and only the packer mandrel. For 7 days fished for remaining parts of pkr and drid out bottom portion of safety joint. Ran overshot and fished out final portion of 2" EUE perforation anchor and 8' sub. Ran new packer on tubing and set at 4868 feet again. Swabbed hole dry, packer held. Acidized w/7000 gals. of Dowell acid petrac @ 4200 psig avg. treating pressure w/avg injection rate of 1.2 BPPM through tbg. Note: Formation would not break down at pressures as high as 5000 psig. Swabbed back acid water in 2 days and well kicked off and flowed gas, oil and spent acid water. On first 24 hr. flow test through 18/64" ck, flowing pressure built up to 640 psig. On second 24 hr. period of flow, well flowed est. GV 1,100,000 CFDD thru 18/64" ck against 700 psig tubing pressure and 32 barrels of fluid being 50% oil (GV 39° API) and 50% water (acid & salt water). 24 hr. shut-in tbg pressure: 1410 psig. Well completed for a shut-in gas well on 2-22-60.