

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
			Deviation Record
			Depth
			Degrees Off
			1/4 298'
			1/2 590'
			1/4 271'
			1/2 1182'
			1/4 1797'
			1 1532'
			1 2050'
			1/2 2360'
			1 2600'
			1 2900'
			1/4 3000'
			1/2 3210'

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of re-drilling, 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 balling.

R. McIntosh Federal Well No. 2
 Spudded 11" hole 10:30 A.M., May 1, 1961. Ran 629' of 7-5/8" O.D. casing and cemented at 670' with 100 sacks Incon 67 cement. Plug at 625'. Cement circulated. Test before and after drilling plug for 30 minutes with 500 PSI. Tested 9 A.M. Job complete 5:45 A.M., May 2, 1961.

Core No. 1, 2195' to 2195', Recovered 50', 100%, No show, May 5, 1961.
 Core No. 2, 2195' to 2195', Recovered 50', 100%, No show, May 6, 1961.
 Core No. 3, 2172' to 2172', Recovered 31', 0%, No show, May 9, 1961.
 Core No. 4, 2172' to 2172', Recovered 20', 100%, No show, May 9, 1961.
 Core No. 5, 2195' to 2195', Recovered 20', 100%, No show, May 10, 1961.

Ran 3205' of 4-1/2" O.D. casing and cemented at 3215' with 200 sacks Incon 67 cement. Plug at 3182'. Tested before and after drilling plug for 30 minutes with 1000 PSI. Tested O.K. Job complete 10:30 P.M., May 12, 1961.

Perforate 4-1/2" O.D. casing with 2 jet shots per ft. 3167' to 3175'. Acidize with 500 gals 15% LST NGA. Frac with 10,000 gals refined oil and 15,000 lbs. sand at 12.6 RPM. Swab well. Re-frac with 20,000 gals refined oil and 20,000 lbs. sand at 9.5 RPM. Swab well. Perforate 4-1/2" O.D. casing with 2 jet shots per ft. 2665' to 2713' and 2713' to 2719'. Acidize with 500 gals LST NGA, frac with 10,000 gals refined oil and 15,000 lbs. sand at 17 RPM.

1. Bottom of 4-1/2" casing was cemented with 200 sacks, cement was drilled out to plus back depth of 3213', cast iron bridge plug was set at 2750', spot 2 sacks cement on top of bridge plug, hole to be filled with heavy mud between plugs.
 2. Spot 25 sacks at perforations, 2665' to 2675', and 2713' to 2719'.
 3. Out off 4-1/2" casing at approximately 1650', recover same.
 4. Spot 15 sacks cement plug from 0' below to 50' above top of non-recoverable 4-1/2" casing.
 Spot 15 sacks cement plug at the surface inside 7-5/8" O.D. casing, install in marker 7' above ground level as per U.S.G.S. regulations and clean location for inspection.
 Plug and abandon complete 7:00 P.M., July 23, 1961.