



# FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	12.20	12.20	Top of rotary drive bushing to top of 7" OD casg.
12.20	47	34.80	No formation logged
47	210	163	Sand, caliche and red bed
210	462	252	Shale, sand and red bed 1/4° @ 410.
462	665	203	Red bed
665	845	180	Red bed and shells 1/2° @ 852, 1/2° @ 750.
845	1002	157	Red bed and shale 1/2° @ 943.
1002	1083	81	Red bed and shells 1/4° @ 1090.
1083	1140	57	Red bed and sticky shale
1140	1255	115	Red bed and shale 3/4° @ 1190.
1255	1415	160	Red bed and shells 1/2° @ 1400.
1415	1498	83	Red bed, shale and shells
1498	1547	49	Red bed, shale and gyp
1547	1566	19	No formation logged
1566	1600	34	Top of anhydrite at 1560'. Anhydrite
			<u>SIC 1600 = 1609</u>
			<u>Set 9-5/8" OD casg. @ 1604' w/500 sax.</u>
1609	1720	111	Anhydrite
1720	2160	440	Salt, anhydrite, shells and shale 1/4° @ 2060.
2160	2675	515	Salt and anhydrite 3/4° @ 2360, 1/2° @ 2460, 1° @ 2570.
2675	2788	113	Anhydrite 1-1/4° @ 2765.
2788	2943	155	Anhydrite and salt streaks 1° @ 2830, 1-1/4° @ 2880.
2943	2975	32	Anhydrite
2975	3770	795	Anhydrite and gyp 1° @ 3100, 1/2° @ 3300, 1/2° @ 3470, 1/4° @ 3620.
3770	3821	51	Anhydrite and lime shells
3821	3887	66	Anhydrite and lime
3887	3993	106	Anhydrite, lime and gyp 1/2° @ 3970.
3993	4089	96	Anhydrite and lime
4089	4180	91	Anhydrite, gyp and lime
4180	4202	22	Anhydrite and lime
4202	4312	110	Lime and gyp 1/2° @ 4240.
4312	4339	27	Lime
4339	4425	86	Lime and gyp
4425	4563	138	Lime 1/2° @ 4465.
4563	4604	41	Sandy lime
4604	4625	21	Lime and dolomite
4625	4641	16	Sandy lime
4641	4652	11	Cored
			Rec. 7' (2' good stain oil and porosity, 5' bleeding oil).
			<u>Set 7" OD casg. @ 4641' w/600 sax.</u>
			Guide shoe at 4658.
			Float collar 3028.
			Centralizers at 4590.46, 4458.27, 4241.52, 3806.98.
1000	4512	3512	Halliburton Ran Temp. survey Approx. top cement 2610.
			<u>CABLE TOOLS RECORD</u>
4580	4652	72	Drill out cement
4652	4653	1	Lime
4653	4658	5	Lime
			Bailed dry and remained dry 20 hrs., slight show of gas. Showing gas, bailed 15 gals per hour for 3 hrs., gas increase. showing porosity, fair to good oil stain, slight increase in gas.
			<u>2" tubing at 4656.</u>
			<u>TOTAL DEPTH</u>
4641	4658	17	Western Co. acidized
			w/1000 gals 20% low tension TP 800-1700-1800# CP 1900# 1-1/4 hrs. 3 MPB. Packer at 4613.
4641	4658	17	Western Co. attempted to re-acidize
			w/3000 gals, packer leaked, no job.
4641	4658	17	Western Co. re-acidized
			w/3000 gals 20% low tension CP 1850-1800#, TP 1350-1250-1800# 63 min. 9/10 BPM, Packer at 4613.
4641	4658	17	Western Co. re-acidized
			Swabbed 18 B/O BAW 24 hrs., 600' OIH, gas increasing. w/5000 gals 20% low tension CP 400-2000# TP vac.-2100# 2 hrs., Packer at 4613 1.8 BPM.
			ERC Pot. Test: Pumped 52 B/O 24 hrs., GOR 491/1, Gravity 30.9° @ 60, 2/10 of 1% BS, MCF 26.