

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	6	6	Surface Soil
6	20	14	Gravel
20	26	6	Sand
26	34	8	Boulders
34	78	44	Coarse Sand
78	100	22	Boulders
100	138	38	Fine Sand
138	150	12	Boulders
150	160	10	Cemented Gravel (Hard)
160	205	45	Sand and Gravel (Softer)
205	210	5	Cemented Granite (Arkose)
210	220	10	Soft Sand
220	225	5	Arkose
225	230	5	Soft Sand
230	250	20	Arkose
250			Drilled with Cable Tools
250			Changing back to Rotary. Pumping mud in hole for seven days to get circulation.
250	275	25	Arkose (Very hard)
275	300	25	Arkose (Very hard)
300	325	25	Arkose (Very Hard)
325	350	25	Arkose (Very hard)
350	360	10	Soft Sand
360	390	30	Granite Wash (Arkose-Very Hard)
390	410	20	Granite Wash (Arkose-Hard)
410	415	5	Granite Wash (Hard)
415	442	27	Soft Sand
442	450	8	Granite Wash (Hard)
450	460	10	Coarse Gravel
460	475	15	Coarse Gravel
475	500	25	Arkose
500	550	50	Arkose (Very Hard)
550	600	50	Arkose (Very Hard) With thin strata of Red Shale
600	620	20	Increase of CO ₂ Gas.
620	650	30	Gray & Red Shale
650	670	20	Hard Coarse Cemented Gravel
670	700	30	Hard Coarse Cemented Gravel
700	750	50	Red and Gray Shale
750	760	10	Arkose Hard
760	800	40	Gray Shale
800	820	20	White Hard Sand
820	850	30	Arkose Very hard
850	900	50	Arkose Very hard with Red and Gray Shale Breaks
900	950	50	Red And Gray Shale
950	960	10	Red And Gray Shale
960	1000	40	Coarse Sand and Gravel Carrying Water
1000	1050	50	Brown Shale
1050	1100	50	Quick Sand
1100	1150	50	Sand and Gravel
1150	1175	25	Brown Shale
1175	1200	25	Soft Sand
1200	1210	10	Coarse Gravel
1210	1250	40	White Lime
1250	1300	50	Brown Shale
1300	1300		Sand and Gravel
1310	1325	15	Brown Shale
1325	1350	25	Coarse Gravel
1350	1375	25	Sand
1375	1400	25	Sand
1400	1425	25	Coarse Gravel
1425	1450	25	Coarse Gravel
1450	1460	10	Brown Shale
1460	1473	13	Brown Shale
1473	1500	27	Gray Lime
1500	1525	25	Fine Sand
1525	1550	25	Fine Sand
1550	1600	50	Fine Sand
1600	1625	25	Gray and Red Shale
1625	1650	25	Sand
1650	1675	25	Coarse Gravel
1675	1690	15	Coarse Gravel
1690	1700	10	Granite Boulders
1700	1750	50	Hard Coarse Granite Wash
1750	1775	25	Hard Granite Wash
1775	1800	25	Soft Sand
1800	1850	50	Boulders
1850	1875	25	Granite Wash
1875	1900	25	Red Shale
1900	1925	25	Gray Shale
1925	1935	10	Gray Shale
1935	1950	15	Granite Wash
1950	1960	10	Granite Boulders
1960	1975	15	Brown Shale
1975	2000	25	Hard Lime
2000	2025	25	Gray Lime
2025	2050	25	Red Shale
2050	2100	50	Hard Granite Boulders
2100	2150	50	Granite Boulders (Hard)
2150	2160	10	Granite Wash
2160	2180	20	Gray Shale
2180	2200	20	Hard Gray Sand
2200	2250	50	Gray Shale
2250	2300	50	Gray Shale
2300	2345	45	Gray Shale
2345	2400	55	Gray Sand (hard)
2400	2410	10	Gray Hard Sand
2410	2450	40	Gray Shale Soft
2450	2500	50	Gray Shale Soft
2500	2550	50	Soft Gray Shale
2550	2600	50	Hard Gray Shale
2600	2650	50	Hard Gray Sand
2650	2700	50	Hard Gray Sand Stone
2700	2750	50	Hard Gray Sand
2750	2800	50	Gray Sand Softer
2800	2850	50	Gray Sand Hard
2850	2890	40	Gray Shale
2890	3002	112	Gray Soft Sand Water
3002	3060	58	Gray Soft Sand
3060	3110	50	Gray Soft Sand
3110	3118	8	Soft Sand
3118	3200	82	Gray Shale
3200	3218	18	Gray Shale
3218	3300	82	Very Hard Gray Sand
3300	3350	50	Gray Sand (Softer)
3350	3400	50	Soft Sand
3400	3445	45	Very Hard Gray Sandy Lime
3445	3480	35	Hard Gray Sandy Lime
3480	3510	30	Gray Shale
3510	3540	30	Gray Shale
3540	3570	30	Gray Shale
3570	3600	30	Lime Shells
3600	3640	40	Pink Shale
3640	3650	10	Gray Sand (hard)
3650	3700	50	Gray Sand
3700	3780	80	Gray Sand (hard)
3780	3810	30	Gray Shale
3810	3820	10	Sand Gray (soft)
3820	3900	80	Gray Sand (harder)
3900	3960	60	Set 3200 feet 6" 24# 6 5/8 " 6-10 Casing
3960	4020	60	Gray Sand (hard)
4020	4040	20	Gray Sand (softer)
4040	4100	80	Brown Shale
4100	4300	200	Gray Sand (hard)
4300	4400	100	Black Sand (soft)
4400	4460	60	Black and Gray Sand (harder)
4460	4480	20	Gray Sand (hard)
4480	4560	80	Dark Gray Sand (hard)
4560	4600	40	Gray Sand (hard)
4600	4637	37	Hard Gray Sand
4637	4710	73	Gray Sticky Shale
4710	4735	25	Gray Sticky Shale
4735	4776	41	Cleaning out casings at 4000 Ft.
4776	4780	4	Cleaning out casing at 4500 Ft.
4780	4795	15	Rigging up March 26 to 29th.
4795	4810	15	Started Cleaning out Sunday March 30th.
4810	4828	18	Cleaning out Casings March 30, 1940, to April 26, 1940. From 3200 to 4710.
4828	4870	42	Gray Hard Sand
4870	4930	60	Gray Hard Sand with Strata of Sticky Shale
4930	4950	20	Gray Shale
4950	4970	20	Gray Hard Sand
4970	4980	10	Gray Soft Sand
4980	5024 T.D.	44	Gray Sticky Shale
			Gray Sand (soft)

TOTAL DEPTH OF WELL 5024 FEET