

Rowland Land Company No. 2 (GW - 679) Well

Marsh Fork District, Raleigh County, W. Va.

By Columbia Carbon Company, Charleston, W. Va.

Located 2.2 Mi. S. of 37° 50' and 3.3 Mi. W. of 81° 25' - SW -

Eccles Quadrangle.

Elevation, 1712.0' L. (ground).

Permit No. - 18.

Drilling commenced July 1, 1942; completed Feb. 22, 1943.

Dry Hole

Fresh Water at 12 and 145'.

Salt water at 2228, 2255, and 2695'.

18 5/8 " casing, 45' 7"; 13 3/8, 750' 3" (pulled); 10 3/4", 1957' 8"
(pulled); 8 5/8", 2627' 4" (Pulled).

Section based on samples from 55 to 3554; examined by J. H. G. Martens.

Pottsville Formation, 1278¹/₂ Feet.

0	26	26	"Gravel" (water 12')
26	34	8	"Sand"
34	55	21	"Slate"
55	63	8	Shale, dark-gray to black
63	70	7	Siltstone, gray, sandy
70	92	22	Siltstone, gray, shaly, micaceous
92	101	9	Shale, dark-gray, silty
101	¹⁰⁵ 104	4	Shale, dark-gray, silty, 80%; light-brown fine sandstone, 20%
105	118	13	Sandstone, light-gray, fine, with brown and green specks, 50%; dark-gray silty shale 50%
118	123	5	Shale, dark-gray, silty
123	151	28	Sandstone, light-gray, medium-grained; contains many green grains (fresh water, 145', 4 - 14" bailers per hour)
151	173	22	Shale, dark-gray, silty
173	181	8	Siltstone, black
181	205	24	Sandstone, gray, very fine with thin black carbonaceous streaks
205	210	5	Sandstone, light-gray, fine

210	218	8	Sandstone, light-gray, fine 70%; dark-gray, shaly siltstone, 30%
218	276	58	Sandstone, white to light-gray, very fine, with fairly high proportion of quartz
276	289	13	Sandstone, white, fine, nearly all quartz; mostly broken into individual grains, many of which have crystal faces
289	295	6	Sandstone, light-gray, coarse
295	312	17	Sandstone, light-gray to white, fine- to medium-grained
312 316	316	4	Shale, black, silty
316	330	14	Sandstone, white, coarse to very coarse and pebbly
330	346	16	Sandstone, white with some rust stains, medium- to coarse-grained
346	357	11	Sandstone, gray, fine, with some very coarse grains
357	362	5	Sandstone, gray, fine
362	373	11	Sandstone, gray, medium- to coarse-grained, poorly sorted
373	384	11	Sandstone, white, medium-grained
384-392		8	Sandstone, white, very coarse, pebbly
392	403	11	Shale, dark-gray
403	408	5	Shale, dark-gray, 70%; gray sandy siltstone, 30%; trace of coal
408	419	11	Siltstone and silty shale, gray
419	425	6	Shale, very dark-gray, silty
425	439	14	Sandstone, light-gray, very fine
439	445	6	Shale, black, silty
445	450	5	Siltstone, gray, coarse
450	469	19	Sandstone, gray, very fine, with a little darker gray shale and siltstone
469	475	6	Sandstone, gray, very fine, 70%; black shale, 30%
475	487	12	Siltstone, gray, very sandy
487	508	21	Shale, black silty, 60 to 80%; gray siltstone, 40 to 20%
508-	513	5	Shale, dark-gray, distinctly laminated
513	518	5	Shale, dark-gray, 50%; gray siltstone 50%
518	535	17	Siltstone and silty shale
535	540	5	Siltstone, light-gray, coarse
540	547	7	Siltstone, dark-gray, shaly

47	553	6	Shale, very dark gray, silty
553	560	7	Shale, very dark gray, silty, 50%; gray siltstone 50%
560	564	4	Siltstone, dark-gray, shaly
564	568	4	Shale, dark-gray, silty
568	585	17	Sandstone, light-gray, very fine
585	596	11	Sandstone, white, with some rust stain, fine
596	657	61	Sandstone, white, with some rust stain, medium-grained, nearly all quartz; mostly broken into individual grains
657	673	16	Sandstone, white with some rust stain, fine, nearly all quartz
673	709	36	Sandstone, light-gray, very fine
709	810	101	Sandstone, white, fine- to medium-grained, nearly all quartz; some rust stain throughout
810	876	66	Sandstone, white, coarse- to medium-grained, nearly all quartz
876	882	6	Sandstone, white, fine
882	885	3	Siltstone, gray, sandy
885	906	21	Shale, dark-gray, very silty
906	911	5	Shale, dark-gray, 70%; light-gray fine sandstone, 30%
911	919	8	Sandstone, gray, fine
919	926	7	Siltstone, gray to black, with some coal and black shale
926	933	7	Shale, dark-gray, very silty
933	947	14	Sandstone, light-gray, very fine
947	1009	62	Sandstone, white, fine, nearly all quartz
1009	1128	119	Sandstone, white, fine to coarse, nearly all quartz; considerable amount of rust stain throughout
1128	1168	40	Sandstone, white, fine, nearly all quartz
1168	1174	6	Sandstone, white, coarse; some very coarse grains and pebbles at bottom
1174	1177	3	Shale, black, silty
1177	1185	8	Shale, dark-gray
1185	1196	11	Shale, very dark gray, silty
1196	1202	6	Sandstone, gray, fine
1202	1210	8	Siltstone, gray, sandy
1210	1218	8	Siltstone, gray, shaly, micaceous
1218	1225	7	Shale, dark-gray, silty, micaceous

1225	1242	17	Shale, black, highly carbonaceous, with a little coal
1242	1265	23	Siltstone, gray with black streaks, very sandy
1265	1278	13	Siltstone, very dark gray
<u>Mauch Chunk Group, 1180 feet</u>			
1278	1285	7	Shale, gray and light-gray
1285	1308	23	Siltstone, light-gray, fine, with siderite spherulites
1308	1315	7	Shale, grayish-green, very silty, 80%; very dark gray shale, 20%
1315	1323	8	Shale, dark-gray and grayish-green, very silty
1323	1339	16	Siltstone, gray, sandy, micaceous
1339	1355	16	Shale, dark-gray, distinctly laminated
1355	1363	8	Siltstone, gray
1363	1375	12	Shale, dark gray
1375	1382	8	Shale and siltstone, grayish-green, small amount of brown dolomitic limestone
1382	1388	6	Shale, dark-gray, silty, micaceous
1388	1395	7	Sandstone, gray, very fine, silty
1395	1407	12	Sandstone, light-gray, fine
1407	1422	15	Sandstone, white, medium-grained
1422	1425	3	Siltstone, gray
1425	1437	12	Shale, dark-gray, fossiliferous
1437	1446	9	Sandstone, white, very fine
1446	1453	7	Siltstone, gray, sandy, 70%; dark-gray shale 30%
1453	1467	14	Sandstone, light-gray, very fine
1467	1486	19	Shale, very dark gray, silty
1486	1577	91	Shale, very dark gray to black, distinctly laminated
1577	1587	10	Siltstone, light-gray, sandy, also large amount of shale like that above
1587	1600	13	Shale, dark-gray, with some lighter gray siltstone
1600	1604	4	Siltstone, gray
1604	1607	3	Sandstone, white to light-brown, very fine, 70%; black shale with a little coal, 30%
1607	1612	5	Sandstone, brown, fine calcareous
1612	1617	5	Sandstone, gray, very fine, calcareous
1617	1623	6	Siltstone, gray, sandy
1623	1636	13	Sandstone, light-gray, fine

1636	1659	25	Sandstone, white, fine, nearly all quartz; some grains have crystal faces
1659	1685	26	Limestone, gray to brownish, with a few fossils
1685	1692	7	Shale and siltstone, grayish-green
1692	1699	7	Shale, red, silty, with limestone nodules, 60%; gray and green shale, 40%
1699	1705	6	Shale and siltstone, red, with limestone nodules
1705	1718	13	Shale, red
1718	1730	12	Shale, red, with many small limestone nodules
1730	1765	35	Shale, red with a little green
1765	1769	4	Shale, green and red, calcareous
1769	1774	5	Shale, red
1774	1779	5	Shale, red, very silty
1779	1856	77	Shale, red
1856	¹⁸⁷⁶ 1976	20	Siltstone, red, fine
1876	1886	10	Siltstone, red and green, fine
1886-	1892	6	Shale, red and green
1892	1928	36	Shale, gray, with fossil shells
1928	1935	7	Shale, red
1935	1939	4	Siltstone, light-green
1939	1950	11	Sandstone, light-gray, very fine
1950	1955	5	Limestone, gray, partly shaly
1955	1959	4	Shale, gray, calcareous and fossiliferous
1959	1964	5	Shale, red, gray, and green limy nodules
¹⁹⁶⁴ 1965	1968	4	Shale, red, with red limestone nodules
1968	1979	11	Siltstone and shale gray
1979	1985	6	Shale, green and red
1985	1996	11	Shale, gray and red
1996	2014	18	Shale, red
2014	2027	13	Siltstone, red, fine
2027	2033	6	Sandstone, nearly white, fine 60%; red and green shale 40%
2033	2048	15	Shale, gray
2048	2079	31	Shale and siltstone, red
2079	2086	7	Shale, red and green
2086	2099	13	Shale, grayish-green, with a little limestone
2099	2106	7	Shale, red and green

2106	2118	12	Shale, gray to dark-gray, silty
2118	2126	8	Siltstone, light-gray, 60%; dark-gray shale, 40%
2126	2134	8	Shale, red, 60%; gray and green shale and siltstone 40%
2134	2147	13	Shale, dark-gray, 70%; light-gray and green siltstone, 30%
2147	2157	10	Shale, red and green, silty
2157	2166	9	Shale, gray and green
2166	2177	11	Shale, grayish-red
2177	2185	8	Siltstone, red and gray
2185	2193	8	Shale, grayish-green
2193	2199	6	Limestone, light-brown; also some shale of various colors
2199	2207	8	Shale and siltstone, dark-gray
2207	2228	21	Sandstone, white with black carbonaceous streaks, very fine
2228	2249	21	Sandstone, white, very fine
2249	2312	63	Sandstone, white, fine
2312	2323	11	Shale, dark-gray, silty
2323	2339	16	Shale, dark-gray, silty and highly calcareous, fossiliferous
2339	2343	4	Shale, gray, 60%; gray limestone, 40%
2343	2348	5	Limestone, gray, shaly
2348	2379	31	Limestone, gray, partly shaly
2379	2386	7	Shale, grayish-green
2386	2392	6	Shale, gray, 60%; gray limestone, 40%
2392	2423	31 -97	Shale, gray, fossiliferous
2423	2436	13	Limestone, brownish-gray, fossiliferous
2436	2438	2	Shale, gray (top and bottom from driller's record)
<u>Greenbrier Limestone, 387 feet</u>			
2438	2454	16	Limestone, light-brown, fossiliferous
2454	2465	11	Limestone, light-brown, fossiliferous, 60%; gray shale, 40%
2465	2473	8	Limestone, gray, shaly, fossiliferous
2473	2483	10	Limestone, light-brown
2483	2505	22	Limestone, very light brown, oolitic; oolites are abundant and distinct; also contains micro fossils
2505	2512	7	Limestone, brown, with a few oolites

2512	2522	10	Limestone, nearly white, oolitic
2522	2571	49	Limestone, brown to light-brown
2571	2583	12	Limestone, gray and brown, slightly sandy; contains many rounded calcite grains
2583	2624	41	Limestone, very light brown
2624	2634	10	Limestone, nearly white, oolitic
2634	2685	51	Limestone, brown to light-brown; indistinct oolites, 2659 - 2664'
2685	2700	15	Limestone, very light brown, oolitic
2700	2739	39	Limestone, brown to light-brown
2739	2749	10	Limestone, nearly white, partly oolitic
2749	2780	31	Limestone, brown
2780	2800	20	Limestone, brown; contains some silt and very fine sand
2800	2809	9	Limestone, gray, with a few rounded sand grains and a very little brown chert
2809	2816	7	Limestone, gray, dolomitic, with a few rounded sand grains and about 5% of white anhydrite
2816	2825	9	Dolomite, gray, silty with about 20% of white anhydrite
2825	2835	10	<u>MacGrady Formation, 25 feet</u>
2825	2835	10	Siltstone and shale, light-red
2835	2850	15	Siltstone, red; a few rounded sand grains, 2835-2843'
			<u>Pocene Formation, 507 feet</u>
2850	2860	10	Siltstone, gray, containing a small amount of white anhydrite
2860	2872	12	Shale, gray, very silty
2872	2890	18	Siltstone, light-gray, very sandy
2890	2926	36	Shale and siltstone, gray
2926	2972	46	Sandstone, light-gray, very fine
2972	2979	7	Sandstone, light-gray, very fine 70%; gray shale, 30%
2979	2999	20	Shale, dark-gray, 60%; very fine, light gray sandstone, 40%
2999	3087	88	Shale, dark-gray, with thin streaks of light-gray to light-brown very fine sandstone
3087	3318	231	Shale, gray to dark-gray, mostly silty; small amounts of siltstone in most samples
3318	3328	10	Shale, dark-gray
3328	3338	10	No sample

3338	3350	12	Shale, very dark gray (Sunbury Shale)
3350	3357	7	Siltstone, gray 70%; very dark gray shale, 30%
<u>Devonian Shales, 1269+ feet</u>			
3357	3390	33	Shale and siltstone, gray; depth corrected from 3390 to 3400' by S L M
3400	3450	50	Shale, gray with some fine siltstone
3450	3554	104	Shale and siltstone, gray
3554	4628		Samples not examined ("slate and shells")
	4626		Total depth ^{by} of record