

Way-137

B. J. Prichard No. 1 (880) Well

Stonewall District, Wayne County, W. Va.

By the Owens, Libbey-Owens Gas Dept., Box 1375, Charleston, W. Va.

Located 4.3 mi. W. of 82°20' and 3.44 mi. S. of 38°15' -NC- Wayne Quadrangle;

2.5 mi. S. E. of Wayne.

Elevation 1054' L. Starts about 150 feet below Pittsburgh Coal Horizon.

Permit, Way-137.

Drilling commenced June 2, 1938; completed, July 15, 1938.

Shot July 13, 1938 at 2605-3435'.

Gas well; volume 306, 000 cu. ft.

Rock pressure, Injun, 320 lbs. per sq. in.; shale 542 lbs. per sq. in., in 24 hrs.

Fresh water at 126 and 629'; salt water at 1080'.

Coal was encountered at 655-657'.

13" casing, 11'; 8 1/2", 678'; 6 5/8", 1482'; 2" tubing, 3441'; 5 1/2" liner, 928';

spang comb. wall - anchor packer, set at 1735'.

The thickness of the Greenbrier is probably more than the 153 feet given in the drillers' record. The only sample of this formation is from the bottom.

The thicknesses of the other formations given below are probably correct.

Top Bottom Thickness

Greenbrier Limestone, 153 feet

1494	1545	51	Big Lime, yellow, hard
1545	1642	97-	Big Lime, white, hard (gas, 1589', 84,000 cu. ft.; blow out in 24 hours; oil show, 1625')
1642	1647	5	Anhydrite, white, fine, 50%; brown dolomite or strongly dolomitic limestone, 50%

Maerady Formation, 20 feet

1647	1667	20	Siltstone, dark-red
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Poccano Formation, 592 feet

1667	1693	26	Sandstone, gray, very fine
1693	1695	2	Shale, dark-gray
1695	1731	36	Sandstone, light-gray, fine (gas, 1709', 80,000 cu. ft.; gas, 1723', 166,000 cu. ft.)
1731	1735	4	No sample (reported as soft gray sand)
1735	1743	8	Siltstone, gray, shaly
1743	2132	389	No samples (reported as gray slate and shells)

Top	Bottom	Thickness	
2132	2147	15	No samples (reported as soft gray slate)
2147	2176	29	No samples (reported as hard sand shells)
2176	2234	58	No samples (reported as dark slate and shales)
2234	2245	11	Shale, black (Sumbury shale)
2245	2248	3	Sandstone, nearly white, fine; very pyritic at top (Berea sandstone, 2245-2259')
2248	2253	5	Shale, light-gray, micaceous, 70%; light-gray very fine sandstone, 30%
2253	2259	6	Sandstone, light-gray, very fine, 60%; gray micaceous shale, 40%
<u>Devonian Shales, 1176 feet</u>			
2259	2268	9	Shale, gray, 60%; light-gray siltstone and very fine sandstone, 40%
2268	2295	27	No samples (reported as soft gray slate)
2295	2301	6	Sandstone, light-brown and gray, very fine; almost a siltstone
2301	2334	33	No samples (reported as light hard shell)
2334	2344	10	No samples (reported as soft brown slate)
2344	2439	95	Shale, very dark brownish-gray to black; mostly silty and micaceous
2439	2435	46	No samples (reported as soft light slate)
2435	2672	137	No samples (reported as gray slate and shells)
2672	2680	8	No samples (reported as soft gray slate)
2680	2698	18	Shale, about half dark- and half medium-gray
2698	2769	71	Shale, dark brownish gray to black
2769	2809	40	Shale, medium- to dark-gray
2809	2825	16	Shale, very dark gray
2825	2841	16	Shale, medium- to dark-gray
2841	2927	86	Shale, dark-gray to very dark gray, somewhat brownish (gas, 2903', 6,000 cu. ft.)
2927	2984	57	Shale, medium-gray, 50 to 70%; very dark gray to black, 50 to 30% (gas, 2935-2984'; 22,000 cu. ft.)
2984	3058	74	Shale, very dark gray to black, mostly somewhat brownish (gas, 3010', 5,000 cu. ft.)
3058	3158	100	Shale, black; small brown spores in some samples in this interval (gas, 3150', 10,000 cu. ft.)

Top	Bottom	Thickness	
3158	3238	80	Shale, gray
3238	3251	13	Shale, very dark gray
3251	3261	10	No sample (reported as soft white slate)
3261	3270	9	Shale, gray
3270	3300	30	No samples (reported as soft white slate)
3300	3310	10	Shale, gray
3310	3367	57	Shale, grayish-green
3367	3380	13	Shale, gray
3380	3435	55	Shale, very dark gray to black; numerous spores at base of shale (gas 3388', 6,000 cu. ft.)

Helderberg Limestone (4) 3+ feet

3435	3458	3	Limestone, gray to brown, cherty, somewhat dolomitic
	3438		Total depth