

(9)

Western Pocahontas Corporation No. 1(733) Well

Slab Fork District, Wyoming County, W. Va.

By the Owens, Libbey-Owens Gas Department, Charleston, W. Va.

Located 2.3 mi. S. of 37° 40' and 0.75 mi. W. of 81° 15' - WC

Mullens Quadrangle.

Elevation, 2214.58', L.

Permit Wyo - 96,

Completed February 1946; shot at 3597-3659' -

Gas well

Section based on complete samples examined by J. H. C. Martens

Top	Bottom	Thickness	<u>Pottsville Formation, 1236± feet</u>
0	30	30	Sandstone, brown, fine
30	42	12	Siltstone, brown
42	50	8	Siltstone, gray
50	105	55	Sandstone, light-gray to nearly white, fine to very fine; some dark shaly streaks
105	129	24	Siltstone, gray, mostly sandy
129	136	7	Shale, dark-gray, silty, 50%; gray siltstone, 50%
136	143	7	Shale, dark-gray, silty
143	158	15	Shale, greenish-gray and brown, micaceous
158	168	10	Siltstone, gray
168	174	6	Shale, dark-gray, silty
174	180	6	Sandstone, fine, 60%; dark-gray shale, 40%
180	199	19	Sandstone, white, medium-grained, nearly all quartz
199	277	78	Sandstone, white to very light gray, fine, nearly all quartz
277	282	5	Siltstone, light-gray
282	287	5	Sandstone, light-gray, with green specks, fine
287	291	4	Coal, 50%; white, fine sandstone, 50%
291	296	5	No sample
296	305	9	Sandstone, gray, very fine, 80%; dark-gray silty shale, 20%
305	313	8	Shale, very dark gray, 80%; gray, very fine sandstone, 40%

313	327	14	Shale, black
327	336	9	Sandstone, gray, very fine, with specks of siderite
336	383	47	Sandstone, light-gray, medium- to fine-grained; contains mica, chlorite, and siderite
383	406	23	Shale, very dark gray, silty
406	474	68	Sandstone, light-gray to brownish, very fine
474	490	16	Sandstone, light-brown to white, medium-grained
490	500	10	Siltstone, gray, sandy
500	510	10	Sandstone, nearly white, medium-grained
510	519	9	Sandstone, nearly white, fine, 90%; black silty shale, 10%
519	527	8	Sandstone, gray, very fine
527	547	20	Sandstone, gray, shaly
547	553	6	Shale, very dark gray
553	575	22	Siltstone, dark-gray, shaly
575	598	23	Shale, very dark gray, silty
598	605	7	Shale, very dark gray, 70%; white, medium-grained sandstone, 30%
605	615	10	Shale, dark-gray, silty, micaceous
615	621	6	Shale and siltstone, gray
621	627	6	Shale, dark-gray, silty, micaceous
627	636	9	Sandstone, light-gray, fine, 70%; gray shale and siltstone, 30%
636	642	6	Shale, black and gray
642	649	7	Siltstone, gray, sandy, micaceous
649	690	41	Sandstone, light-gray to white, fine, with some mica, chlorite, and siderite
690	696	6	Sandstone, gray, very fine, shaly
696	704	8	Siltstone, gray, 90%; coal and black shale, 10%
704	730	26	Siltstone, gray
730	736	6	Sandstone, light-gray, very fine
736	743	7	Shale, dark-gray, 70%; gray siltstone, 30%
743	750	7	Siltstone, gray, 90%; coal and black shale, 10%

750	757	7	Sandstone, light-gray, fine, 70%; gray shale, 30%
757	809	52	Sandstone, very light gray, fine
809	838	29	Siltstone, gray, with thin black streaks
838	873	35	Shale, black; a little coal near bottom
873	879	6	Sandstone, brown and gray, very fine, 70%; black shale with a little coal, 30%
879	911	32	Sandstone, light-gray, very fine
911	922	11	Shale, black, with a little coal
922	929	7	Siltstone, very dark gray, fine
929	931	2	No sample
931	956	25	Sandstone, light-gray, fine
956	979	23	Siltstone and shale, gray
979	990	11	Siltstone, gray, shaly
990	1054	64	Sandstone, nearly white, fine- to medium-grained
1054	1066	12	Sandstone, gray, fine; contains considerable siderite
1066	1070	4	Sandstone, light-brown, fine, 95%; coal, 5%
1070	1075	5	Sandstone, light-brown, very fine
1075	1080	5	Siltstone, gray, sandy
1080	1094	14	Shale, very dark gray, silty, 70%; gray siltstone, 30%
1094	1121	27	Siltstone, gray, with a little dark shale
1121	1185	64	Sandstone, light-gray, with green and brown specks, fine
1185	1214	29	Sandstone, white, fine
1214	1236	22	Shale, black, silty, with a trace of coal
			<u>Mauch Chunk Group, 1703 feet</u>
1236	1242	6	Siltstone, light-gray, with siderite concretions and spherulites
1242	1254	12	Shale, gray and green, with some siderite
1254	1272	18	Siltstone, light-green, slightly calcareous
1272	1277	5	Siltstone, gray, coarse
1277	1293	16	Sandstone, light-gray, very fine

1293	1298	5	Shale, gray
1298	1313	15	Shale and fine siltstone, gray
1313	1321	8	Shale, dark-gray
1321	1327	6	Sandstone, white, fine
1327	1333	6	Sandstone, white to greenish, very fine, 50%; green shale and siltstone, 30%; red shale, 20%
1333	1351	18	Siltstone, gray and green
1351	1356	5	Shale, dark-gray, calcareous, 80%; dark-brown fossiliferous limestone, 20%
1356	1366	10	Shale, gray, calcareous
1366	1388	22	Shale, grayish-green, with a few spots of red
1388	1392	4	Shale, red
1392	1410	18	Siltstone, gray and green, fine, calcareous
1410	1420	10	Sandstone, light-gray, very fine
1420	1444	24	Sandstone, white, fine- to medium-grained
1444	1452	8	Shale, gray
1452	1457	5	Shale, gray, 80%; very dark brown limestone with small fossils, 20%
1457	1496	39	Sandstone, gray, very fine
1496	1529	33	Siltstone, gray, sandy, with dark micaceous streaks
1529	1547	18	Sandstone, gray, very fine
1547	1628	81	Shale, very dark gray, distinctly laminated
1628	1637	9	No sample
1637	1659	22	Sandstone, gray, very fine
1659	1679	20	Siltstone and silty shale, gray
1679	1694	15	Siltstone, gray, coarse
1694	1704	10	Sandstone, gray, very fine
1704	1715	11	Siltstone, gray, coarse
1715	1740	25	Sandstone, very light gray, fine
1740	1758	18	Sandstone, white, fine
1758	1775	17	Sandstone, white, coarse to very coarse (gas, 1762-1764) 47 M)
1775	1776	1	Limestone, brown and gray
1776	1782	6	Shale, gray, silty

1782	1792	10	Shale, gray, soft, distinctly laminated
1792	1799	7	Limestone, light-brown and gray, fossiliferous, 60%; soft gray shale, 40%
1799	1821	22	Limestone, gray, fossiliferous, somewhat dolomitic
1821	1832	11	Limestone, brown, very fine textured
1832	1842	10	Limestone, brownish-gray, fossiliferous
1842	1913	71	Shale, red, partly calcareous
1913	1978	15	Siltstone and shale, red, calcareous
1928	1960	32	Shale, red, calcareous
1960	1984	24	Shale, gray, fossiliferous
1984	2055	71	Shale, red, calcareous
2055	2065	10	Siltstone, red, fine, calcareous
2065	2072	7	Limestone, red and white, shaly
2072	2092	20	Siltstone, red, calcareous
2092	2099	7	Shale, red, calcareous
2099	2105	6	Shale, red and gray, calcareous
2105	2174	69	Siltstone, gray, dark-gray, and grayish-green, fine and shaly
2174	2186	12	Shale, very dark gray, silty
2186	2195	9	Sandstone, white, fine, nearly all quartz
2195	2201	6	Sandstone, white, fine, 70%; gray, very fine sandstone, 30%
2201	2206	5	Sandstone, light-gray, very fine, silty
2206	2210	4	Limestone, gray
2210	2215	5	Shale, gray, 70%; gray limestone, 30%
2215	2245	30	Shale, and siltstone, gray, 70%; gray limestone, 30%
2245	2253	8	Sandstone, light-red, very fine
2253	2278	25	Shale, red and grayish-red, very silty
2278	2305	27	Shale, red, with some gray and green, partly dolomitic
2305	2318	13	Dolomite, dark brownish gray; also red, gray, and green shale, perhaps mostly cavings
2318	2340	22	Shale, red, silty
2340	2346	6	Shale, very dark gray, carbonaceous

2346	2357	11	Sandstone, white to greenish, very fine
2357	2360	3	Sandstone, light-gray, very fine
2360	2379	19	Sandstone, white, very fine
2379	2404	25	Sandstone, white, fine
2404	2409	5	Sandstone, white, with some rust stain, medium-grained
2409	2484	75	Sandstone, white, fine to medium-grained (gas, 2417 - 2457&)
2484	2485	1	Shale, black, silty, with trace of coal
2485	2499	14	Siltstone, gray to greenish
2499	2503	4	Shale, gray to grayish-green, silty, 70%; very dark gray shale, 30%
2503	2509	6	Shale and siltstone, gray
2509	2515	6	Shale, dark-gray
2515	2531	16	Limestone, gray to brownish, with some gray shale
2531	2539	8	Shale, dark-gray
2539	2545	6	Shale, red, green, and gray
2545	2558	13	Shale, green, calcareous
2558	2577	19	Shale and fine siltstone, gray to grayish-green
2577	2590	13	Limestone, gray
2590	2597	7	Shale, dark-gray
2597	2603	6	Shale, dark-gray, with lumps of pyrite and a little coal, 80%; white, very fine sandstone, 20%
2603	2609	6	Shale, dark-gray, with a little coal, 50%; white, very fine sandstone, 50%
2609	2628	19	Siltstone, gray, coarse
2628	2634	6	Sandstone, gray, very fine
2634	2642	8	Siltstone and shale, gray
2642	2701	59	Shale, gray to dark-gray, distinctly laminated
2701	2735	34	Shale, gray, distinctly laminated, 60 to 70%; gray to dark-brown fossiliferous limestone, 40 to 30%
2735	2745	10	Limestone, brownish-gray, 50%; gray shale, 50%
2745	2750	5	Shale, gray
2750	2765	15	Limestone, dark-brown, with a few oolitic fragments, 80%; gray shale, 20%

Greenbrier Limestone ?

2765	2770	5	Limestone, brown and white, fossiliferous
2770	2781	11	Shale, gray, highly calcareous, fossiliferous
2781	2811	30	Shale, gray to dark-gray, calcareous
2811	2820	9	Shale, dark-brown, calcareous, 60%; gray calcareous shale, 20%; brown limestone, 20%
2820	2828	8	Limestone, brown, 80%; gray, distinctly laminated shale, 20%
2828	2845	17	Limestone, dark-brown
2845	2853	8	Shale and siltstone, gray, 60%; brown limestone, 40%
2853	2870	17	Shale, gray, green, and red, 70%; gray and brown limestone, 30%
2870	2886	16	Limestone, light-gray and light-green, 80%; gray shale, 20%
2886	2903	17	Limestone, light-brown to white, fossiliferous, 70%; green fossiliferous shale, 30%
2903	2912	9	Limestone, gray, shaly, fossiliferous
2912	2918	6	Shale, dark-gray, highly calcareous
2918	2939	21	Limestone, dark-brown, partly shaly
			<u>Greenbrier Limestone, 391 feet</u>
2939	2956	17	Limestone, gray
2956	2978	22	Limestone, brown, oolitic
2978	2984	6	Limestone, brownish-gray
2984	2988	4	Limestone, very light brown, oolitic
2988	3005	17	Limestone, brown to light-brown
3005	3031	26	Limestone, brown, partly oolitic
3031	3044	13	Limestone, brown
3044	3066	22	Limestone, dark-brown
3066	3081	15	Limestone, gray
3081	3122	41	Limestone, very light brown, with a few colorless cleavage fragments of dolomite; small insoluble residue with very small quartz and pyrite crystals. (gas, 3100 - 3103')
3122	3146	24	Limestone, very light brown, partly oolitic

3146	3193	47	Limestone, brown to light-brown
3193	3219	26	Limestone, light-brown
3219	3246	27	Limestone, light-brown, partly oolitic
3246	3272	26	Limestone, light-brown to light-gray, oolitic
3272	3311	39	Limestone, light-brown
3311	3320	9	Limestone, very light brown, dolomitic
3320	3330	10	Dolomite, gray, very fine textured
<u>Maccrady Formation, 38 feet</u>			
3330	3353	23	Shale, red, dolomitic, with a little white anhydrite
3353	3368	15	Siltstone, red, with green specks, somewhat dolomitic
<u>Pocono Formation, 720 feet</u>			
3368	3383	15	Siltstone, gray to grayish-green
3383	3399	16	Siltstone, gray, 85%; light-gray, dolomite with green specks, 15%
3399	3415	16	Siltstone, gray, calcareous
3415	3421	6	Siltstone, gray
3421	3438	17	Shale and siltstone, dark-gray
3438	3448	10	Siltstone, gray, partly dolomitic, with green specks; a little white anhydrite
3448	3456	8	Siltstone, dark-gray
3456	3475	19	Siltstone, grayish-green, with some red
3475	3491	16	Siltstone, gray
3491	3508	17	Siltstone, light-gray, coarse
3508	3539	31	Siltstone and shale, gray
3539	3578	39	Siltstone, gray
3578	3595	17	Shale, dark-gray
3595	3650	55	Sandstone, gray, very fine; a few coarser grains in upper part 3650
3650	3737	87	Shale, very dark gray, with thin streaks of siltstone
3737	3770	33	Shale, dark-gray, 80%; gray siltstone, 20%

3770	4036	266	Shale, dark-gray, 50 to 70%; light-gray siltstone, 50 to 30%
4036	4071	35	Shale, very dark gray; some black near bottom (Sunbury Shale)
4071	4082	11	Shale, very dark gray to black, 70%; gray to brown, fine, pyritic siltstone, 30%
4082	4088	6	Siltstone, brown, fine, pyritic, 70%; gray to black shale, 30% (Berea Sandstone horizon)
<u>Devonian Shales, 42+ feet</u>			
4088	4094	6	Shale and fine siltstone, dark-gray to brownish
4094	4130	36	Shale and fine siltstone, gray
	4130		Total depth