

Wyo-15

C. C. Sharp et al No. 3 (1071) Well

Center District, Wyoming County, W. Va.

By Godfrey L. Cabot, Inc., Charleston, W. Va.

Located 3.93 mi. S. of 37°40' and 3.27 mi. W. of 81°30' - EC- Pineville  
Quadrangle.

Elevation, 1768.0' L.

Permit Wyo - 16

Drilling commenced Nov. 1, 1942; completed Feb. 4, 1943.

Acidized Feb. 9, 1943, at 2645-2961' with 1000 gals.; before acidizing  
50H.; 2 hrs. after acidizing, 260H.

Rock pressure, 740 lbs. in 48 hrs.

Gas pays 2685-2690' and 2897-2902'.

15" casing, 39'; 10", 232'; 8", 969'; 7", 2614'; 2" tubing, 2961'.

Section based on nearly complete samples from surface to total depth  
of 3061'; examined by J.H.C. Martens.

Pottsville Formation, 914+ feet

Top	Bottom	Thickness	
0	135	135	Sandstone, white, medium-grained, nearly all quartz
135	150	15	Shale, very dark, gray, silty
150	158	8	Shale, very dark gray
158	163	5	Shale and siltstone, very dark gray
163	172	9	Shale, very dark gray
172	183	11	Shale and siltstone, dark gray
183	205	22	Sandstone, light-gray to white, fine, calcareous except for 3 feet at top
205	210	5	Shale, black, 50%; fine white sandstone, 50%
210	215	5	No sample
215	304	89	Sandstone, light-gray, very fine; mostly somewhat brownish from siderite
304	326	22	Sandstone, light-gray to brownish, fine
326	363	37	Sandstone, light-brown, very fine
363	406	43	Sandstone, nearly white, medium-grained
406	418	12	Sandstone, gray, very fine

Top	Bottom	Thickness	
418	423	5	Coal, 60%; white sandstone and gray shale and siltstone, 40%
423	425	2	No sample
425	430	5	Sandstone, white, medium-grained
430	444	14	Coal, 30%; light-gray very fine sandstone, 70%
444	465	21	Sandstone, light-gray, fine; some green and brown specks
465	480	15	Shale and siltstone, gray
480	534	54	Sandstone, white to light-gray, fine- to medium-grained
534	560	26	Siltstone, very dark gray, fine and shaly
560	570	10	Shale, black
570	577	7	No sample
577	586	9	Shale, black
586	593	12	Siltstone, dark-gray
593	612	14	Shale, black, 30%; coal, 20%
612	619	7	Shale, black, silty
619	622	3	Sandstone, light-brown, very fine, 40%; black shale, 30%; dark-gray, siltstone, 30%
622	630	8	Sandstone, nearly white, very fine, 70%; dark-gray shale and siltstone
630	635	5	Siltstone, dark-gray
635	645	10	Shale, very dark gray
645	654	9	Shale and siltstone, gray
654	659	5	Sandstone, white, fine, 50%; dark-gray shale and siltstone, 50%
659	707	48	Sandstone, white, fine- to medium-grained
707	732	25	Sandstone, white, medium- to coarse-grained
732	750	18	Sandstone, white, coarse, 80 to 90%; gray siltstone, 20 to 10%
750	775	25	Sandstone, gray, fine - to medium-grained; calcareous from 769 to 775'
775	789	14	No sample
789	801	12	Siltstone and silty shale, dark-gray
801	820	19	Shale, very dark gray
820	832	12	Shale and siltstone, dark-gray

Top	Bottom	Thickness	
832	838	6	Siltstone, gray, shaly
838	853	15	Sandstone, light-gray to nearly white, fine
853	869	16	Sandstone, light-gray, fine, 70%; gray shaly siltstone, 30%
869	878	9	Shale, gray, micaceous; small amount of coal
878	908	31	Siltstone, gray, shaly, micaceous, small amounts of coal throughout
908	914	6	Sandstone, gray to brownish, fine, 70%; gray, silty shale, 30%; the sandstone contains siderite, mica, chlorite and some small pieces of coal
<u>Mauch Chunk Group, 1617 feet</u>			
914	924	10	Sandstone, light-brown, fine, calcareous, containing siderite, 50%; shale, light-gray, very silty, micaceous, 50%; some of the shale fragments contain many of what appear to be very small and unusually dark siderite spherulites
924	931	7	Siltstone, gray, micaceous, 60%; gray, shale, 20%; fine, brown, calcareous sandstone, 20%
931	978	47	Sandstone, very light-gray, fine to very fine; has some brown and green specks
978	1002	24	Siltstone, gray to dark-gray, sandy and shaly, 70%; sandstone, medium-grained, with yellow stain, thoroughly broken up into grains, 30%
1002	1030	28	Siltstone, gray, sandy and shaly, a little dark-gray to black shale, 1014-1030'
1030	1035	5	Siltstone, light-brown, with much siderite, 80%; black shale, 20%
1035	1077	42	Siltstone, light-gray, sandy
1077	1125	48	Shale and siltstone, gray, micaceous
1125	1149	24	Sandstone, white, medium-grained
1149	1157	8	Sandstone, white, medium-grained, 85%; gray and green shale, 15%
1157	1176	19	Shale, red, soft, calcareous, 60%; white, medium-grained sandstone, 40%

Top	Bottom	Thickness	
1176	1190	14	Siltstone and shale, light-green, 60%; soft red shale, 20%; white sandstone, 20%
1190	1202	12	Shale, red and gray, soft, 70%; light-green to white siltstone and very fine sandstone
1202	1214	12	Shale, dark-gray, silty
1214	1244	30	Shale, black and gray
1244	1291	47	Siltstone, gray
1291	1295	4	No sample
1295	1301	6	Shale, red and gray soft, also some siltstone and sandstone
1301	1325	24	Sandstone, gray, very fine, hardly coarser than siltstone
1325	1330	5	Sandstone, nearly white, very fine, mostly broken up into individual grains
1330	1346	16	Siltstone, gray, sandy; also some soft red shale, probablyavings
1346	1375	29	Shale, dark-gray to black
1375	1390	15	Shale, dark-gray, very silty
1390	1424	34	Siltstone, gray, sandy, micaceous
1424	1457	33	Sandstone, light-gray to white, very fine
1457	1469	12	Sandstone, white, fine
1469	1521	52	Sandstone, white, medium-grained, nearly all quartz; crystal faces on some grains (show of gas at 1437')
1521	1534	13	Sandstone, white, coarse
1534	1540	6	Sandstone, white, coarse, 60%; gray, distinctly laminated shale, 40%
1540	1556	16	Shale, gray, 50%; gray fossiliferous limestone, 50%
1556	1607	51	Limestone, gray, shaly
1607	1671	64	Shale, red, calcareous
1671	1721	50	Dolomite, light-gray to greenish, very fine textured, 40%; red and gray shale and various kinds of siltstone, 60%
1721	1856	135	Shale, red, dolomitic, partly silty

Top	Bottom	Thickness	
1856	1871	15	No sample
1871	1905	34	Shale and siltstone, gray to greenish; also some red shale and gray dolomite
1905	1923	18	Shale and siltstone, gray, 80%; gray to dark-gray limestone, 20%
1923	1929	5	No sample
1929	1950	22	Siltstone, light-gray to greenish, partly calcareous
1950	1969	19	Shale, gray, highly calcareous and fossiliferous
1969	1991	22	Shale, dark-gray, partly calcareous
1991	2038	47	Siltstone, gray, sandy, many fragments could be classed as very fine sandstone
2038	2045	7	Sandstone, light-gray, very fine
2045	2082	37	Sandstone, white, fine
2082	2145	63	Shale, red
2145	2165	20	Shale, gray and green, 60%; gray dolomite, 40%; also some red shale, cavings
2165	2172	7	Shale, gray and green
2172	2178	6	Shale and fine siltstone, light-green, 60%; dark-gray shale, 40%
2178	2194	16	Shale, dark-gray, silty
2194	2205	11	Shale, dark-gray, silty, 90%; gray limestone, 10%
2205	2210	5	No sample
2210	2253	43	Shale and siltstone, gray, 70%; gray limestone, 30%
2253	2259	6	Limestone, light-gray, 50%; gray shale and siltstone, 50%
2259	2263	4	Limestone, very light yellowish-gray
2263	2268	5	Shale, gray, 80%; limestone, 20%
2268	2298	30	Limestone, dark-gray, 70 to 80%; gray shale and siltstone, 30 to 20%
2298	2312	14	Siltstone and silty shale, dark-gray, 60 to 70%; light-gray to white, very fine sandstone, 40 to 30%
2312	2372	60	Siltstone, light-gray to dark-gray, mostly shaly
2372	2380	10	Shale, dark-gray, distinctly laminated

Top	Bottom	Thickness	
2390	2403	13	Shale, dark-gray, with small amount of limestone
2403	2454	51	Limestone, gray, fossiliferous, 50%; gray, distinctly laminated shale, 50%
2454	2496	32	Limestone, gray to brownish, also small amount of gray shale; most of the limestone has a large proportion of silty and clayey material
2496	2501	15	Limestone, gray, very shaly, fossiliferous
2501	2511	10	Shale, gray, calcareous, 80%; limestone, 20%
2511	2531	20	Shale, gray, somewhat calcareous
			<u>Greenbrier Limestone, 430 feet</u>
2531	2551	20	Limestone, light-gray to brownish, highly fossiliferous, 70%; gray shale, 30%
2551	2556	5	Limestone, brown with some nearly white spots
2556	2574	18	Limestone, light-brown to gray, 30%; greenish gray, silty shale, 20%
2574	2623	49	Shale, grayish-green and dark-gray, highly calcareous, 70%; brownish-gray limestone, 30%
2623	2641	18	Limestone, light-gray to light brown
2641	2740	99	Limestone, brown
2740	2711	31	Limestone, light-brown
2771	2790	19	Limestone, light-brown, oolitic
2790	2848	58	Limestone, brown to light-brown
2848	2862	14	No sample
2862	2870	8	Limestone, very light brown, with some oolites and micro-fossils
2870	2891	21	Limestone, very light-brown; contains a few very small doubly terminated quartz crystals
2891	2902	11	Limestone, very light brown, slightly dolomitic; contains a little colorless anhydrite and a few very small doubly terminated quartz crystals
2902	2906	4	No sample
2906	2912	6	Limestone, light-brown, slightly dolomitic, with a very few quartz crystals
2912	2924	12	Limestone, very light brown; oolitic, 2912-2918'
2924	2941	17	No sample

Top	Bottom	Thickness	
2941	2961	20	Limestone, brown, slightly dolomitic
			<u>Maccrady Formation, 53 feet</u>
2961	2978	16	Siltstone, grayish-red, fine
2978	2986	8	No sample
2986	3014	28	Siltstone, and silty shale, red
3014	3020	6	Siltstone, gray
3020	3037	17	No sample
3037	3061	24	Siltstone, gray
	3061		Total depth