

Buffalo Creek Coal and Coke No. No. 1 Well

Triadelphia District, Logan County, W. Va.

By South Penn Natural Gas Company, Parkersburg, W. Va.

Located 5.12 mi. S. of 37° 50' and 2.35 mi. W. of 81° 15' -SE- Logan
Quadrangle.

Elevation, 1142.03' L.

Permit Log-92.

Drilling commenced March 14, 1944; completed Aug. 11, 1944.

Gas well; volume 321,000 cu. ft.

Salt water 1318-1334 and 1925-1935'.

13 3/8" casing, 277'; 8 5/8", 1350'; 7", 2357'.

Coal at 70 feet, 60 inches.

Section based on samples from 825 to 1346' and 2335 to 3366', examined
by J. H. C. Martens.

Pottsville and Mauch Chunk, 2424+ feet

Thick-

Top. Bottom. ness.

0	825	825	No samples
825	855	30	Sandstone, white, medium-grained, nearly all quartz
855	870	15	Shale, dark-gray, very silty
870	876	6	Shale and siltstone, gray to black, with trace of coal
876	895	19	Sandstone, white, medium-grained; also some gray shale and siltstone
895	900	5	Shale and siltstone, dark-gray
900	914	14	Sandstone, nearly white, very fine
914	950	36	Shale, gray, silty
950	957	7	Shale, black, 50%; light-gray, very fine sandstone, 50%
957	1019	62	Sandstone, light-gray to nearly white, fine to very fine
1019	1053	34	Sandstone, white, medium-grained
1053	1070	17	Sandstone, white, coarse
1070	1093	23	Sandstone, white, medium-grained
1093	1105	12	Sandstone, white, coarse
1105	1115	10	Sandstone, white, medium-grained
1115	1129	14	Shale, black, with fragments of plant fossils; a little very coarse sand

Top.	Bottom.	Thick- ness.	
1129	1164	35	Sandstone, white, fine- to medium-grained
1164	1175	11	Sandstone, light-gray, very fine
1175	1182	7	Sandstone, gray, very fine, shaly
1182	1123	41	Sandstone, light-gray, fine
1123	1326	203	Sandstone, white, medium- to coarse-grained
1326	1351	5	Sandstone, white, very coarse
1351	1337	6	Sandstone, white, coarse
1337	1346	9	Shale, gray, silty
1346	2335	989	No samples
2335	2345	10	Limestone, gray and brown, with a little gray chert, 70%; gray shale, 30%
2345	2357	12	No sample
2357	2374	17	Limestone, brown
2374	2381	7	Limestone, light-brown and green, sandy
2381	2396	15	Shale, gray, thinly laminated, 70%; gray and light-brown, limestone, 30%
2396	2406	10	Shale, gray, calcareous and fossiliferous
2406	2419	13	Limestone, brown, fossiliferous, impure; not sharply separated from the shale above
2419	2424	5	Limestone, dark-brown, with trace of gray chert, 80%; dark-gray shale, 20%

Greenbrier Limestone, 286 feet

2424	2428	4	Limestone, brown, a few long pieces of gray, closely jointed and distinctly laminated shale
2428	2438	10	Limestone, light-brown, fossiliferous
2438	2456	18	Limestone, light-brown, with a little chert
2456	2482	26	Limestone, brown to light-brown
2482	2485	3	No sample
2485	2492	7	Limestone, nearly white, with some oolites
2492	2522	30	Limestone, light-brown
2522	2528	6	No sample
2528	2541	13	Limestone, light-brown, oolitic, sandy, 2533-2541'
2541	2562	21	Limestone, light-brown

Top.	Bottom.	Thick- ness.	
2562	2570	8	Limestone, light-brown, slightly dolomitic, 80%; red limestone, 20%
2570	2612	42	Limestone, light-brown
2612	2627	15	Limestone, light-brown and red
2627	2645	18	Limestone, nearly white, indistinctly oolitic
2645	2670	25	Limestone, brown to light-brown, with some oolites (55,000 cu. ft. gas at 2649')
2670	2683	13	Limestone, very light brown, partly dolomitic
2683	2688	5	Limestone, very light-brown
2688	2701	13	Limestone, very light-brown, dolomitic, slightly porous
2701	2710	9	Limestone, brown to light-brown, dolomitic; contains a few sand grains

Maocrady Formation, 35 feet

2710	2745	35	Shale and siltstone, grayish-red
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Pocano Formation, 487 feet

2745	2763	18	Shale and siltstone, gray
2763	2769	6	Sandstone, gray, very fine; contains a few very coarse sand grains
2769	2785	16	Shale, dark-gray, 50 to 60%; very fine gray sandstone, 50 to 40%
2785	2838	53	Shale, dark-gray, with some lighter gray very fine sandstone
2838	2855	17	Sandstone, light-gray, very fine, 60%; gray silty shale, 40%
2855	3148	293	Shale and siltstone, gray; some fine to very fine light-gray sandstone in several samples. (267,000 cu. ft. gas at 2952-61' and 321,000 cu. ft. at 2970-78')
3148	3172	24	Shale, gray
3172	3195	23	Shale, dark-gray
3195	3223	28	Shale, black. (Sunbury Shale)
3223	3232	9	Sandstone, light-gray, fine, pyritic. (Berea Sandstone)

Devonian Shales, 134+ feet

3232	3236	4	Shale, gray
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Top.	Bottom.	Thick- ness.	
3236	3279	43	No sample.
3279	3325	46	Shale, gray, with small amount of siltstone
3325	3356	31	No sample.
3356	3366	10	Shale, gray, silty
	3369		Total depth.