

Ed. L. Boggs No. 5 (Y085) Well

Birch District, Braxton County, W. Va.

By Pittsburgh and West Virginia Gas Co., Pittsburgh, Pa.

Located 0.49 mi. W. of 80°55' and 0.55 mi. S. of ^{38° 35'} -5W- Cassaway Quadrangle; 1 mi. S.E. of Duck.

Elevation, 1192', L.

Permit, Brax-76.

Drilling commenced May 19, 1939; completed, June 24, 1939.

Shot June 24, 1939, at 2083-2096'.

Gas well, volume, 94,000 cu. ft.; rock pressure, 495 lbs. in 24 hrs.

Fresh water at 490 and 920'; salt water at 1487, 1717 and 1626'.

15" wood conductor, 16'; 8 1/2" casing, 556'; 6-5/8", 1786'; 3" tubing, 2096'; all left in.

Hook wall packer, 6-5/8 x 3, set at 1872'.

Coal was encountered at 449-450 and 459-495'.

Section based on a nearly complete set of samples.

Top Bottom Thickness

Conemaugh Formation, 126+ feet

0	45	45	Clay and soft shale, red
45	105	60	Sandstone, nearly white, medium- to coarse-grained; also small amounts of light greenish gray siltstone
105	119	14	Siltstone, gray, shaly, micaceous
119	126	7	Shale, gray, silty

Allegheny Formation, 324 feet

126	150	24	Sandstone, nearly white, medium-grained, poorly sorted
150	160	10	Siltstone, gray, shaly, micaceous (possibly interchanged with sample from 126-134'; if it were the record would agree with the samples)
160	269	109	Sandstone, nearly white, medium- to coarse-grained; contains chlorite, kaolin, muscovite, and biotite; slightly to moderately calcareous, 185-269'
269	320	51	Sandstone, gray, fine to very fine, micaceous, slightly calcareous; contains muscovite, biotite, chlorite, and siderite
320	342	22	Siltstone and shale, gray, micaceous; some of the siltstone contains much siderite

Top	Bottom	Thickness	
342	421	79	Sandstone, light-gray, fine, micaceous, sideritic
421	449	28	Sandstone, white, medium- to coarse-grained
449	450	1	Coal (No. 5 Block or Lower Kittanning coal; reported by drillers; (does not show in samples)
<u>Pottsville Formation, 1175 feet</u>			
450	489	39	Sandstone, white, medium- to coarse-grained
489	495	6	Coal (amount of coal in sample suggests thickness considerably less than the six feet reported; water at 490', 2 bailers per hour)
495	545	50	Sandstone, white, medium-grained
545	554	9	Shale and siltstone, gray, micaceous
554	635	81	Sandstone, light-gray, very fine, micaceous, 60%; darker gray shale and siltstone, 40%
635	655	20	Sandstone, white, coarse
655	700	45	Sandstone, very light gray to slightly greenish, medium-grained; contains small amounts of mica, chlorite, kaolin, and siderite
700	714	14	Sandstone, white, coarse
714	741	27	Sandstone, nearly white, medium- to fine-grained; contains small amounts of mica, chlorite, and kaolin
741	750	9	Sandstone, gray very fine, micaceous, 70%; gray and black shale, 30%
750	758	8	Shale, gray to black, silty, 70%; coal, 10%; light-gray fine sandstone, 20%
758	844	86	Siltstone, dark-gray to black, 60 to 65%; dark-gray shale, 20%; coal 10 to 5%; very fine light-gray sandstone, 10%; all of the eleven samples from this interval are very nearly the same (show of gas, 821')
844	856	12	Sandstone, light-gray, fine
856	871	15	Siltstone, dark-gray, shaly, 60%; dark-gray shale, 20%; coal, 10%; fine to very fine light-gray sandstone, 10%
871	915	45	Shale, dark-gray to black, very silty
915	947	31	Sandstone, nearly white, fine
947	965	18	No sample
965	1033	68	Siltstone, gray, shaly, micaceous
1033	1156	103	Sandstone, nearly white, medium-grained; contains small amounts of mica, chlorite, and siderite; calcareous, 1086-1156'

Top	Bottom	Thickness	
1186	1184	48	Shale and siltstone, dark-gray
1184	1192	8	Sandstone, light-gray, very fine, 70%; darker gray shale and siltstone, 30%
1192	1208	16	Sandstone, light-gray, very fine, 60%; dark-gray shale, 40%; slight traces of coal
1208	1254	46	Shale, very dark gray to black; also small amounts of light-gray siltstone and sandstone
1254	1264	10	Sandstone, gray, very fine
1264	1273	9	Siltstone, gray, 70%; dark-gray to black shale, 30%
1273	1310	37	Shale, dark-gray, silty
1310	1317	7	Siltstone, gray, shaly
1317	1426	109	Sandstone, gray, very fine; has many thin dark carbonaceous and micaceous streaks
1426	1448	22	Sandstone, nearly white, fine; much rust stain on samples
1448	1453	5	No sample
1453	1468	15	Sandstone, gray, very fine, 80%; black shale, 20%
1468	1481	13	Sandstone, white, medium-grained
1481	1548	67	Sandstone, white, with some rust stain, coarse; has high proportion of quartz
1548	1570	22	Sandstone, white, coarse; same as interval above except that there is little rust stain
1570	1596	26	Sandstone, nearly white, coarse; moderate amount of brown rust stain
1596	1611	15	Sandstone, white with some rust stain, medium-grained; from 1605 to 1611' there is a small amount of red, gray, and green shale
1611	1625	14	Sandstone, nearly white, very coarse; very small amount of gray silty shale and soft red shale, 1619-1625'; also a few fragments of siderite concretions or pebbles (probably the distinct change in texture of the sandstone 1625' marks the base of the Pottsville; if so the small amount of red and green shale above probably occurs as pebbles derived from the Mauch Chunk and enclosed in the sandstone near the base of the Pottsville)

Top Bottom Thickness

Mauch Chunk Group, 263 feet

1625	1647	22	Sandstone, white with a little rust stain, medium-grained; nearly all quartz, with many grains showing crystal faces; mostly broken up into individual grains; water at 1626', 12 bailers per hour
1647	1680	33	Sandstone, nearly white, medium-grained; samples contain many more sandstone chips than in the intervals above and below; not quite so nearly pure quartz
1680	1765	85	Sandstone, white, medium-grained, nearly all quartz, with crystal faces on many grains; mostly broken up into individual grains
1765	1775	10	Siltstone, brownish-gray, sandy; coarser toward bottom
1775	1800	25	Sandstone, gray, very fine; grades into siltstone above
1800	1840	40	Limestone, gray to dark-brown, fossiliferous; samples also contains small amounts of soft gray shale
1840	1849	9	Limestone, light-brown, sandy, 80%; soft gray and green shale, 20%
1849	1862	13	Shale, gray, soft
1862	1867	5	Shale, gray, soft, with thin streaks of light-gray very fine sandstone
1867	1888	21	Sandstone, white, medium-grained; samples contain large amounts of soft gray shale, probably cavings

Greenbrier Limestone, 206 feet

1888	1900	12	Limestone, dark-brown; some gray shale cavings
1900	1920	20	Limestone, brown, fossiliferous; contains some small round objects which may be indistinct oolites
1920	1953	33	Limestone, brown, a little lighter than that above
1953	1964	11	Limestone, very light brown, or grayish yellow; some indistinct oolite
1964	2031	67	Limestone, very light brown (neutral-gray to nearly white when dry) sandy, oolitic; many of sand grains are rounded and frosted; oolites are abundant and distinct
2031	2039	8	No sample
2039	2051	12	Limestone, very light brown
2051	2075	24	Limestone, very light brown, sandy; some indistinct oolites
2075	2094	19	Limestone, very light brown, sandy, dolomitic

Maccrady and Pezono, 60+ feet

2094	2123	29	Siltstone, green, sandy, 85%; red siltstone, 15%
	2154		Total depth