

Mike Barr No. 5 (1558) Well

Grant District, Wetzel County, W. Va.

By Carnegie Natural Gas Company, Pittsburgh, Pa.

Located 3.24 mi. W. of 80°30' and 0.71 mi. S. of 39°35' -SE= Littleton Quadrangle.

Elevation, 1245' B.

Permit, Wet-253.

Drilling commenced May 14, 1941; completed, July 3, 1941.

Gas well; volume 333,000 cu. ft.; rock pressure 655 lbs. in 24 hrs.

Fresh water at 345 and 1458-1462'.

Salt water, 1552'.

Coal at 615, 714, and 1458'.

10" casing, 372'; 8 1/4", 1238'; 6-5/8", 1943'.

Section based on samples from surface to 2026' examined by J. H. C. Martens.

Top	Bottom	Thickness	<u>Dunkard Group, 360+ feet</u>
0	10	10	Clay, yellow
10	25	15	Sandstone
25	45	20	Shale, grayish-green, soft
45	68	23	Siltstone, gray to light-green
68	110	42	Clay, red, calcareous
110	235	125	Siltstone and shale, light-green, calcareous; samples also contain red clay oavings
235	245	10	Clay, gray, soft
245	255	10	Shale, black, with trace of coal
255	265	10	Clay, gray to dark-gray, soft
265	280	15	Sandstone, white to light-green, very fine
280	293	13	Clay, dark-gray, soft, with siderite concretions
293	321	28	Clay and soft shale, gray to green, partly sandy
321	351	30	Sandstone, white, medium- to coarse-grained
351	360	9	Clay, gray, soft
<u>Monongahela Formation, 360 feet</u>			
360	387	27	Siltstone, gray, micaceous
387	404	17	Sandstone, nearly white, fine
404	418	14	Shale, green, silty

Top	Bottom	Thickness	
418	425	7	Sandstone, light-gray, fine, calcareous, micaceous
425	448	23	Shale, red and green, soft, calcareous
448	470	22	Shale, gray and red
470	480	10	Coal and gray shale
480	487	7	Shale and siltstone, light-gray; also a little light-brown limestone
487	511	24	Limestone, very light brown
511	535	24	Limestone, brown
535	543	8	Shale, green, silty
543	551	8	Shale, gray and green, soft
551	615	64	Limestone, light-brown; small amounts of soft green and gray shale
615	618	3	Coal (Sewickley Coal)
618	624	6	Limestone, brown
624	640	16	Siltstone, gray
640	714	74	Limestone, brown to light-brown; some gray and green soft shale throughout
714	720	6	Coal (Pittsburgh Coal)
<u>Conemaugh Formation, 596 feet</u>			
720	748	28	Siltstone, light-gray
748	760	12	Shale, gray
760	785	25	Limestone, brown to light-brown; a little sandstone near top of interval
785	793	8	Siltstone, light-green
793	805	12	Shale, red
805	825	20	Clay, gray, red, green, etc., disintegrating quickly in water; also a little light brown limestone
825	857	32	Sandstone, white to light-green, fine; silty near top
857	880	23	Clay, red and yellow, highly calcareous
880	895	15	Clay, red and yellow, 50%; white limestone, 30%; green siltstone, 20%
895	958	63	Clay, red, yellow and gray; interval probably contains considerable limestone, since proportion of clay is increased by cavings

Top	Bottom	Thickness	
958	990	32	Shale and siltstone, green; also a little limestone and various kinds of clay; a few fragments of fossil marine shells (Ams shale and limestone, 958-1000')
990	1000	10	Limestone, very light brown to greenish, with fossil shells; sample is mostly red, yellow, and gray clay
1000	1040	40	Clay, red, yellow, white, and green, with limestone nodules
1040	1054	14	Sandstone, green, fine
1054	1077	23	Siltstone and silty shale, green
1077	1085	8	Clay, red and yellow
1085	1108	23	Siltstone, light-green
1108	1126	18	Shale, gray, silty
1126	1160	34	Sandstone, white, medium-grained
1160	1167	7	Shale, dark-gray, silty
1167	1177	10	Clay, nearly white, soft
1177	1195	18	Siltstone and silty shale, light-green, with siderite spherulites
1195	1218	23	Siltstone, light-gray, sandy, micaceous
1218	1226	8	Shale, dark-gray and light-gray; a little coal
1226	1293	67	Sandstone, light-gray to white, fine to medium-grained
1293	1316	23	Siltstone and shale, gray, micaceous
<u>Allegheny and Pottsville, 517 feet</u>			
1316	1329	13	Siltstone, light-gray, 60%; brown limestone, 20%; gray to black shale, 20%
1329	1347	18	Siltstone, light-gray, sandy; some brown limestone and light-gray shale near top
1347	1401	54	Sandstone, white, medium- to coarse-grained
1401	1419	18	Siltstone, gray
1419	1447	28	Sandstone, gray, very fine
1447	1458	11	Siltstone and shale, gray
1458	1462	4	Coal (gas, 1458-1462', 5,250 cu. ft.; water, 1458-1462', $\frac{1}{2}$ bailer per hour)
1462	1485	23	Sandstone, white, coarse, nearly all quartz; crystal faces on many grains; some gray siltstone near top
1485	1522	37	Siltstone, gray, shaly; grades into sandstone at bottom

Top Bottom Thickness

1522	1567	45	Sandstone, white, medium-to coarse-grained; nearly all quartz (hold full of salt water at 1552')
1567	1595	28	Shale, black and gray
1595	1615	20	Siltstone, dark-gray
1615	1650	35	Sandstone, white, medium-grained
1650	1760	110	Sandstone, white, mostly coarse; large amounts of gray clay avings in several samples
1760	1800	40	Sandstone, white to light-gray, very fine to fine (samples from this interval consist mostly of gray clay, assumed to beavings because it is the same as that in many samples from above)

Mauch Chunk Group, 107 feet

1800	1848	48	Shale, red, soft; also includes some green shale, siltstone and very fine sandstone
1848	1866	18	Siltstone, green, calcareous; also some red shale
1866	1881	15	Shale, red, soft
1881	1900	19	Limestone, brown, fossiliferous; also some gray shale
1900	1907	7	Shale, gray, soft ("Pencil Cave")

Greenbrier Limestone, 119+ feet

1907	1940	33	Limestone, light-brown; also large amounts of gray shaleavings
1940	1970	30	Limestone, very light brown
1970	2002	32	Limestone, brown
2002	2026	24	Sandstone, nearly white, highly calcareous; larger grains are rounded and frosted; samples also contain some limestone

2050

Total depth