

Willie P. Brannon No. 2 (7688) Well

Glenville District, Gilmer County, W. Va.

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

Located 2.77 mi. W. of 80°45' and 2.2 mi. S. of 39°00' -NE- Glenville Quadrangle;

3 mi. N. E. of Glenville

Elevation, 1004' B.

Permit, Gil-377.

Drilling commenced August 8, 1938; completed, September 3, 1939.

Gas well; volume, 304,000 cu. ft. per day; rock pressure 325 lbs. in 24 hrs.

13" wood conductor, 14' (pulled); 10" casing, 181'; 8 1/2", 873'; 6-5/8", 1676'.

Anchor packer, 8 1/2" x 6-5/8", set at 1256'.

Coal was encountered at 488-490'.

The record as given below is based upon a complete set of samples, examined by

J. H. C. Martens. The well starts in the Monongahela formation about 80 feet above the Pittsburgh Coal horizon, but no tract of the coal was found in the sample.

Top Bottom Thickness

Pennsylvanian, 1498+ feet

Top	Bottom	Thickness	
0	6	6	Clay, red, soft
6	28	22	Sandstone, brown, fine, micaceous; appears considerably weathered
28	47	19	Clay, red, soft, slightly calcareous
47	52	5	Clay, red and yellow, with many small limestone nodules
52	81	29	Siltstone, light-green, calcareous and micaceous; green color is due to chlorite in fairly large amount
81	113	32	Sandstone, light-green, fine; contains much mica and chlorite; samples from 52 to 113' contain fragments of a yellow to brown clay which to waxy in appearance on dry, fresh fracture and disintegrates quickly when placed in water
113	118	5	Shale, gray with some brown and red
118	123	5	Shale, gray, red and green, with small limestone nodules; also some green micaceous siltstone
123	134	11	Clay, red, soft, calcareous
134	148	14	Shale, green, with some silty streaks
148	163	15	Siltstone, green, calcareous, shaly; contains mica and chlorite
163	190	27	Clay, red, soft; contains many small limestone nodules

Top	Bottom	Thickness	
190	219	29	Siltstone and shale, green, micaceous, chlorite; about 10% of light-green to yellowish limestone, occurring in small nodules
219	237	18	Sandstone, green, very fine, micaceous; small proportion of calcareous fragments
237	243	6	Sandstone, light-gray, fine
243	262	19	Clay, red, soft, calcareous
262	282	20	Siltstone, green, calcareous; calcite occurs partly as a cement and partly as streaks or nodules of limestone
282	295	13	Siltstone, green, calcareous (same as 262-282') 50%; red clay, 50%; red clay in this interval may be savings since it is not mentioned in drillers' record
295	301	6	Siltstone, grayish-green, calcareous
301	307	6	Clay, red, with a few limestone nodules
307	313	6	Shale, grayish-green, 50%; light-gray, fine textured limestone, 40%; red shale, 10%
313	344	31	Clay, red, 40%; white to light-gray limestone, 30%; soft grayish-green shale, 30%; less red clay, 337-344'
344	381	37	Siltstone, grayish-green, micaceous; a few limestone nodules, perhaps savings
381	403	22	Sandstone, very light-gray, fine, calcareous
403	433	30	Sandstone, light grayish green, fine to very fine, calcareous; much of this is so fine that it could just as well be called siltstone
433	448	15	Siltstone, green, micaceous, 50%; yellow and light-gray limestone, 30%; red and yellow clay, 10%; green and gray shale, 10%
448	455	7	Limestone, brown, 40%; green and gray shale, not much laminated, 60%
455	478	23	Limestone, brown, 70%; red, green, and gray shale, 30%; with the green shale are included a few fragments of fairly hard green clay with conchoidal fracture and a few of similar clay which are part green and part red; the limestone contains some siderite or iron bearing dolomite

Top	Bottom	Thickness	
478	488	10	Shale, gray, soft, 70%; brown limestone, 30%
488	490	2	Coal
490	498	8	Shale, gray, soft, 50%; light-green clay, 40%; brown limestone, 10%
498	526	28	Shale and clay, gray, soft, 80 to 90%; brown, impure limestone, 20 to 10%
526	547	21	Sandstone, white to light-gray, coarse
547	556	9	Shale, gray, silty
556	559	3	Clay, light-gray, soft, 60%; dark-gray, silty shale, 40%; slight trace of coal
559	570	11	Clay, red, gray and green, soft
570	578	8	Clay and soft shale, light-gray to green; contains a few siderite spherulites; also a little nearly white limestone
578	625	47	Shale and siltstone, green, micaceous
625	673	48	Shale, grayish-green, 80 to 90%; brown limestone, 20 to 10%
673	698	8	Siltstone, gray
678	682	4	Clay, gray, soft, 50%; gray silty shale, 50%
682	760	78	Sandstone, light-gray, medium-grained; contains mica, chlorite, and kaolin; considerable biotite near top
760	770	10	Sandstone, light-gray, medium-grained, 70%; gray shale and shaly siltstone, 30%
770	808	38	Sandstone, light-gray, medium-grained, micaceous; poorly sorted and contains a few very coarse grains
808	814	6	Shale, dark-gray, with a very little coal
814	825	11	Sandstone, white, medium-grained, 60%; light-gray sandy siltstone, 40%
825	832	7	Siltstone, dark-gray, shaly
832	895	63	Sandstone, light-gray, medium-grained; contains some mica, chlorite, and kaolin
895	912	17	Siltstone, gray, 70%; dark-gray shale, 30%; there is a little coal about 895' and also some very thin streaks of coal in the siltstone
912	932	20	Shale, dark-gray (SLM, 912')
932	958	26	Siltstone and shale, dark-gray and dark-brown, 70%; nearly white fine- to medium-grained sandstone, 30%

Top	Bottom	Thickness	
958	1024	66	Sandstone, nearly white, medium-grained; contains some mica, chlorite, kaolin, and siderite
1024	1026	2	Siltstone, dark-gray, micaceous
1026	1034	8	Shale, dark-gray
1034	1060	26	Siltstone, dark-gray, shaly, micaceous
1060	1091	31	Sandstone, light-gray, fine, 70%; dark-gray to black shale, 30%; slight traces of coal
1091	1100	9	Shale, dark-gray to black, silty, 70%; very light gray siltstone with siderite concretions, 30%
1100	1109	9	Shale, gray, 50%; very light gray siltstone, 50%
1109	1118	9	Shale, dark-gray
1118	1163	45	Siltstone, dark-gray to very dark gray, micaceous
1163	1190	27	Shale, dark-gray to black, silty
1190	1210	20	Siltstone, dark-gray, micaceous
1210	1230	20	Siltstone, gray, shaly, micaceous, 70%; sandstone, gray to nearly white, medium- to fine-grained
1230	1250	20	Sandstone, nearly white with some green specks; medium-grained
1250	1286	36	Sandstone, nearly white, coarse; small amount of brown stain (show gas, 1260'; gas, 1273-1275')
1286	1300	15	Shale and siltstone, dark-gray
1300	1319	19	Shale, dark-gray to black
1319	1390	71	Shale and siltstone, dark-gray, micaceous
1390	1400	10	Sandstone, white, medium-grained
1400	1436	36	Siltstone, dark-gray
1436	1456	20	Shale, medium- to dark-gray; contains some fragmentary plant fossils
1456	1467	11	Siltstone, gray
1467	1472	5	Sandstone, white, medium-grained, nearly all quartz (gas, 1470-1478'; S.M., 1472')
1472	1498	26	Sandstone, white, coarse, nearly all quartz; crystal faces on some of grains
<u>Mauch Chunk Group, 128 feet</u>			
1498	1516	18	Siltstone, gray
1516	1529	13	Shale, green, soft, calcareous, 70%; red shale, 30%

Top	Bottom	Thickness	
1529	1541	12	Shale, green, 50%; soft red shale, 50%
1541	1551	10	Shale, red, 40%; green shale, 30%; gray shale and siltstone, 20%; yellow limestone, 10%
1551	1555	4	Siltstone, gray, 60%; gray, red, and green shale, 30%; fine white sandstone, 10%
1555	1567	12	Shale, red, gray and green, soft, calcareous
1567	1577	10	Shale, gray, soft, distinctly laminated
1577	1594	17	Limestone, dark-brown, fossiliferous
1594	1602	8	Limestone, light-brown, somewhat sandy, 70%; soft gray shale (perhaps cavings), 30%
1602	1615	13	Sandstone, very light-brown, fine; highly calcareous; appears to grade into limestone above
1615	1626	11	Shale, gray, soft, distinctly laminated
<u>Greenbrier Limestone, 159 feet</u>			
1626	1634	8	Limestone, dark, brown
1634	1674	40	Limestone, light-gray to light-brown
1674	1700	26	Limestone, light-brown, oolitic; somewhat sandy, 1683-1700' (SIM at 1674')
1700	1711	11	Limestone, brown, somewhat dolomitic
1711	1727	16	Limestone, brown, very sandy
1727	1733	6	Sandstone, nearly white, medium-grained, calcareous; larger grains rounded and frosted
1733	1746	13	Siltstone, grayish-green, sandy, calcareous; grades into fine near white calcareous sandstone toward bottom
1746	1751	5	Limestone, nearly white, sandy
1751	1757	6	Sandstone, fine, nearly white, calcareous
1757	1768	11	Limestone, nearly white sandy, oolitic
1768	1785	17	Limestone, nearly white, sandy, dolomitic; contains some oolites which seem to be nearly destroyed by dolomitization; large sand grains are rounded and frosted
<u>Pocono Formation, 30+ feet</u>			
1785	1815	30	Shale and siltstone, grayish-green
	1815		Total depth, SIM