Farm	Gilmer Realty Co. No. 1 (7712)
Company	Pittsburgh and West Virginia Gas Company, Clarksburg, West Virginia
Permit	Gilmer 393
District	Glenville, Gilmer Co., West Virginia
Quadrangle	Glenville NE
Location	3.7 mi W of 80° 45'; 4.96 mi S of 39° 00' Little Kanawha River
Elevation	1155 feet
Commence drilling	11/4/39, Complete drilling 12/5/39
Well type	Gas, Volume: 490 MCFGPD, 615# 24 hrs.

Well not completely examined.
Examined descriptively by Tom W. Carpenter
All percentages are visual estimates; all depths are feet.

Top	Bottom	Thickness	
			MAUCH CHUNK GROUP, 54+ feet
1796	1805	9	Shale, 65%, light gray, pyrite; Limestone, 35%, light gray, silty
1805	1810	5	Siltstone, 60%, light gray; Limestone, 40%, gray, pelletal, bryozoan fragments, silty, pyrite
1810	1814	4	Limestone, 75%, light gray to medium gray, biomicrite, bryozoan and echinoid fragments, forams, silty, argillaceous; Shale, 25%, gray, silty
1814	1822	8	Limestone, 65%, light gray, VF quartz, bryozoans, pyrite; Shale, 35%, gray
1822	1830	8	Shale, 50%, medium to dark gray; Limestone, 45%, light gray; Sandstone, 5%, white, VF, calcareous
1830	1837	7	Shale, 40%, medium to dark gray; Limestone, 40%, light gray; Sandstone, 10%, white, VF, calcareous, some clay coatings; Siltstone, 10%, light gray
1837	1844	7	Shale, 80%, medium gray; Sandstone, 10%, white, VF, calcareous; Limestone, 10%, silty, argillaceous
1844	1850	6	Shale, 70%, gray; Sandstone, 25%, as above; Limestone, 5%, gray, brachiopod

GREENBRIER LIMESTONE, 160 feet

Top	Bottom	Thickness	
1850	1854	4	Limestone, 80%, gray, oomicrite, some fossil fragments, echinoderms, forams; Shale, 20%, dark to medium gray
1854	1860	6	Limestone, 80%, gray, oolitic, brachiopod, silty, pyrite; Siltstone, 10%, medium gray, calcareous; Shale, 10%, light gray
1860	1865	5	Limestone, 80%, gray, grainstone, forams, slightly dolomitic; Shale and siltstone, 20%, light to medium gray, pyrite
1865	1867	2	Limestone, as above with some VF quartz; Shale and siltstone, as above
1867	1873	6	Limestone, 93%, gray, some silt, slightly dolomitic; Shale and siltstone, 7%, light gray
1873	1879	6	Limestone, 93%, gray to tan, silty, slightly fossiliferous; Shale and Siltstone, 7%, light gray
1879	1885	6	Limestone, 90%, gray, silty, pelletal (?); Shale, 10%, dark gray, pyrite
1885	1890	5	Limestone, 95%, tan to gray, fossils, very silty; Shale and siltstone, 5%, gray
1890	1895	5	Limestone, 100%, tan, gray, white, very silty, spicules
1895	1900	5	Limestone, 95%, tan, gray, white, silty, pelletal (?); Siltstone, 5%, gray
1900	1904	4	Limestone, 95%, tan, slightly dolomitic, brachiopod fragments, very silty; Shale and siltstone, 5%, gray
1904	1909	5	Limestone, 90%, tan to white, forams, very silty, pelletal (?); Quartz, 10%, loose grains, VF to Medium
1909	1915	6	Limestone, 100%, tan, grainstone, fossiliferous, VF and Medium quartz, some silt, pyrite; Calcit/quartz = 90/10

Top	Bottom	Thickness	
1915	1920	5	Limestone, 45%, tan, echinoid spicule, VF and Medium quartz; Dolomite, 55%, white, very little or no quartz; Calcite/dolomite/quartz = 43/50/7
1920	1927	7	Limestone, 45%, light gray to tan, dolomitic, pseudoolitic; Dolomite, 55%, white, calcareous, loose quartz; Calcite/dolomite/quartz = 40/55/5
1927	1933	6	Limestone, 93%, gray, pelletal (?), forams, very little or no quartz; Dolomite, 7%, white, no quartz; Siltstone, trace, pyrite
1933	1940	7	Limestone, 90%, gray, dolomitic, pseudoolitic; Dolomite, 10%, white, calcareous, no quartz; Siltstone, trace, gray
1940	1945	5	Dolomite, 70%, tan to white, calcareous, some fossil fragments, much VF and Medium quartz; Limestone, 30%, tan to gray, dolomitic, grainstone, much quartz; Calcite/dolomite/quartz = 30/45/25
1945	1950	5	Limestone, 50%, as above; Dolomite, 50%, as above
1950	1954	4	Limestone, 100%, tan, forams, dolomitic, VF and rounded Medium quartz; Calcite/dolomite/quartz = 45/25/30
1954	1958	4	Limestone, 100%, tan, fossil fragments and pseudoolites, dolomitic, VF and Coarse rounded quartz; Calcite/dolomite/quartz = 50/20/30
1958	1965	7	Limestone, 50%, tan to light gray, dolomitic, oolitic or pseudoolitic, VF and rounded Coarse quartz; Dolomite, 50%, tan to white, calcareous pseudoolitic, VF and rounded Coarse quartz; Calcite/dolomite/quartz = 43/47/10
1965	1972	7	Limestone, 50%, as above, ooids (pseudoids) are not dolomitized; Dolomite, 50%, as above

Top	Bottom	Thickness	
1972	1977	5	Dolomite, 50%, tan to white, calcareous pseudoolitic or oolitic, VF and rounded Coarse quartz; Limestone, 50%, tan to light gray, dolomitic, oolitic or pseudo-olitic, VF and rounded Coarse quartz; Calcite/dolomite/quartz = 40/48/12
1977	1982	5	Limestone, 35%, tan, oolitic, VF to Coarse quartz; Dolomite, 65%, tan to white, ooids are calcareous, VF quartz; Calcite/dolomite/quartz = 30/63/7
1982	1987	5	Limestone, 60%, tan, dolomitic, bio-oosparite, echinoderm fragment, VF and Coarse quartz; Dolomite, 40%, white, calcareous allochems
1987	1993	6	Limestone, 100%, tan, dolomitic, VF and rounded Coarse quartz, pyrite; Calcite/dolomite/quartz = 60/30/10
1993	2007	14	Dolomite, 100%, white, calcareous allo-chems (ooids), very porous, rounded Coarse quartz, pyrite; Calcite/dolomite/quartz = 20/60/20
2007	2010	3	As above but more quartz in some chips; Calcite/dolomite/quartz = 15/65/20
			POCONO GROUP, 8+ feet
2010	2018	8	Siltstone, 100%, light gray to green, siderite grains

Gil-393

Gilmer Realty Company No. 1 (7712) Well

Glenville District, Gilmer County, W. Va.

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

Located 3.7 mi. W. of 80°45' and 4.96 mi. S. of 39°00' -NE- Glenville Quadrangle; 1 mi. E. S. E. of Glenville.

Elevation, 1155' B.

Permit, Gil-393.

Drilling commenced Nov. 4, 1939; completed, Dec. 5, 1939.

Shot Dec. 7, 1939, at 1992-2000', with 40 quarts.

Gas well; volume 490,000 cu. ft.; rock pressure, 615 lbs. in 24 hours.

Casing, 10", 194'; 8¼", 812'; 6-5/8", 870'.

Anchor packer, 8¼" x 6-5/8", set at 1870'.

Section based on samples from 1400 to 2039', examined by J. H. C. Martens. According to the geologic map[1] the elevation of the Pittsburgh coal at the locality of the well is about 915 feet so that this coal should have been encountered at a depth of 240 feet. No coal is recorded at this depth but the driller reports black shale from 220 to 290 feet.

[1] David B. Reger, map of Lewis and Gilmer Counties showing general and economic geology, W. Va. Geological Survey, 1916.

Top	Bottom	Thickness	
			Pottsville Formation, 346+ feet
1400	1420	20	Sandstone, white and brown, medium-grained, calcareous; contains much siderite and some mica and chlorite
1420	1493	73	Sandstone, white, medium- to coarse-grained; contains kaolin, chlorite, mica, siderite and carbonaceous matter; slightly calcareous, 1420-1438' (gas, 1489')
1493	1520	27	Sandstone, light-gray, silty, 60%; dark-gray to black silty shale, 40%
1520	1562	42	Sandstone, dark-gray, very fine to fine, micaceous
1562	1614	52	Siltstone and silty shale, dark-gray, micaceous
1614	1625	11	Sandstone, gray, very fine, shaly
1625	1654	29	Sandstone, white to light-gray; fine at top and medium-grained toward bottom
1654	1710	56	Shale, dark-gray to black, silty, micaceous; some lighter gray soft shale 1690-1710'

Top	Bottom	Thickness	
1710	1728	18	Shale, gray, partly silty; contains a few siderite spherulites
1728	1746	18	Sandstone, nearly white, medium-to coarse-grained, poorly sorted (gas at 1740')
			Mauch Chunk Group, 101 feet
1746	1749+	3	Shale, green, soft
1749	1765	16	Siltstone, light-green, dolomitic; also some gray and green shale
1765	1781	16	Siltstone, green, dolomitic, 50%; gray and green shale, 30%; red shale, 20%
1781	1799	18	Shale, red, soft, 60%; soft gray and green, distinctly laminated shale, 40%
1799	1835	36	Limestone, dark-brown, fossiliferous; drillers' record gives "soft white slate", 1819 to 1823'; all samples from this interval contain much soft gray shale
1835	1847	12	Shale, gray, soft, distinctly laminated; also considerable gray siltstone and brown limestone ("Pencil Cave"; top and bottom taken from drillers' record)
			Greenbrier Limestone, 164 feet
1847	1873	26	Limestone, dark-brown at top becoming somewhat lighter toward bottom of interval; samples contain large amount of gray shale cavings
1873	1909	36	Limestone, brown
1909	1915	6	Limestone, brown, sandy
1915	1927	12	Limestone, light-gray
1927	1940	13	Limestone, brown, somewhat dolomitic; contains a little sand
1940	1993	53	Limestone, light-brown to brownish-gray, sandy; a few green fragments, 1950-1982'
1993	2011	18	Limestone, nearly white, sandy, dolomitic
			Pocono Formation, 29+ feet
2011	2039	28	Siltstone and shale, green; siderite spherulites in some of siltstone
	2040		Total depth