

Farm Irvin Snyder No. 6581
 Company Hope Natural Gas Co., Clarksburg, W.Va.
 Permit Gilmer 378
 District Center, Gilmer Co., West Virginia
 Quadrangle Glenville C
 Location 3.97 mi W of 80° 50'; 3.45 mi S of 38° 55'
 Grass Run
 Elevation 1072 feet
 Commence drilling 9/25/39, Complete drilling 12/30/39
 Well type Gas, Volume: ?
 Well not completely examined.
 Examined descriptively by Tom W. Carpenter
 All percentages are visual estimates; all depths are feet.

Top Bottom Thickness

POTTSVILLE GROUP, 15+ feet

1645	1650	5	Sandstone, 100%, white, Medium, angular
1650	1654	4	Sandstone, 99%, white, Medium to Coarse, angular; Shale, 1%, gray
1654	1660	6	Sandstone, 50%, white, as above; Shale, 25%, gray to green; Siltstone, 25%, gray

MAUGH CHUNK GROUP, 84± feet

1660	1667	7	Shale, 80%, gray, some chips are very calcareous; Limestone, 20%, tan, bio-sparite, some VF quartz and silt, pyrite; Quartz, loose, probably Pottsville wash-in
1667	1675	8	Shale, 100%, mostly red, some gray
1675	1680	5	Shale, 50%, much red, some gray; Sandstone, 40%, white, gray, VF, lithic, calcareous; Siltstone, 10%, gray
1680	1685	5	Shale, 70%, gray; Sandstone, 30%, white to gray, VF
1685	1692	7	Shale, 70%, light gray; Limestone, 15%, dark gray, fossiliferous, pelloids, pyrite; Siltstone, 15%, gray
1692	1696	4	Shale, 85%, gray, pyrite, some is calcareous, fossil fragments; Limestone, 15%, gray, fossiliferous, pelloids, very silty
1696	1698	2	Limestone, 50%, as above; Shale, 50%, as above

Top	Bottom	Thickness		Gilmer 378
1698	1701	3	Limestone, 85%, as above;	Shale, 15%, as above
1701	1705	4	Limestone, 80%, gray to tan, fossiliferous, some silt;	Shale, 20%, gray, calcareous, pyrite
1705	1710	5	Limestone, 40%, gray, biomicrite, VF quartz, pyrite;	Shale, 40%, gray, some fossil fragments, calcareous; Sandstone, 20%, calcareous
1710	1712	2	Sandstone, 48%, white, highly calcareous, VF;	Shale, 48%, gray; Limestone, 4%, gray
1712	1718	6	Dolomite, 83%, tan to white, some VF quartz;	Shale, 10%, gray, pyrite; Sandstone, 7%, white, VF, slightly calcareous, pyrite
1718	1724	6	Shale, 85%, light and dark gray, some VF quartz in the light gray;	Limestone, 15%, tan, some VF quartz, pyrite; Dolomite, trace, white
1724	1728	4	Shale, 86%, gray, pyrite;	Sandstone, 7%, white, VF, calcareous; Limestone, 7%, some VF quartz
1728	1737	9	Shale, 75%, gray, pyrite;	Sandstone, 25%, tan to light gray, VF, very slightly calcareous
1737	1744	7	Shale, 80%, gray, some VF quartz and silt, some fossil fragments, pyrite;	Limestone, 15%, oomicrite, slightly fossiliferous; Sandstone, 5%, light gray, VF
GREENBRIER LIMESTONE, 156± feet				
1744	1750	6	Limestone, 60%, dark gray, oomicrite, silty, some fossil fragments;	Shale, 38%, gray; Sandstone, 2%, gray, VF sand to coarse silt
1750	1753	3	Shale, 78%, gray, calcareous;	Limestone, 20%, gray, oolitic, fossil fragments, pyrite; Sandstone, 2%, white, VF, orthoquartzite

Top	Bottom	Thickness		Gilmer 378
1753	1757	4	Limestone, 70%, tan, oosparite, slightly dolomitic, some VF quartz, pyrite; Shale, 30%, gray	
1757	1759	2	Limestone, 75%, tan, oosparite, dolomitic, slightly fossiliferous; Shale, 25%, gray, pyrite	
1759	1762	3	Limestone, 60%, fossiliferous, pyrite; Shale, 40%, gray, pyrite	
1762	1765	3	Limestone, 70%, gray, fossiliferous; Shale, 30%, gray	
1765	1769	4	Limestone, 90%, gray, some silt; Siltstone, 10%, calcareous	
1769	1774	5	Limestone, 99%, gray, micritic; Shale, 1%, dark gray	
1774	1777	3	Limestone, 99%, as above; Siltstone, 1%, gray	
1777	1779	2	As above	
1779	1780	1	As above	
1780	1783	3	Limestone, 100%, gray, micritic	
1783	1790	7	Limestone, 100%, tan, white, silty, sparite	
1790	1794	4	Limestone, 99%, tan, white, oosparite, some quartz, pyrite; Siltstone, 1%, gray	
1794	1797	3	As above	
1797	1800	3	Limestone, 98%, tan, VF quartz, some sparry calcite; Siltstone, 2%, gray	
1800	1803	3	Limestone, 100%, tan, oosparite, much VF quartz, pyrite	
1803	1805	2	Limestone, 75%, tan to white, oolitic, slightly dolomitic; Dolomite, 25%, white, calcareous	
1805	1808	3	Dolomite, 90%, white, calcareous; Limestone, 10%, tan to white, dolomitic	

Top	Bottom	Thickness	Gilmer 378
1808	1810	2	Limestone, 100%, tan, oosparite, pyrite, slightly dolomitic
1810	1813	3	Limestone, 50%, tan, oosparite, slightly dolomitic, fossiliferous; Dolomite, 50%, white
1813	1817	4	Limestone, 95%, slightly dolomitic, pyrite; Dolomite, 5%, slightly calcareous
1817	1821	4	Limestone, 50%, tan, VF quartz and silt, pelsparite; Sandstone, 50%, VF and Medium to Coarse rounded and frosted
1821	1823	2	Limestone, 99%, tan, pelsparite, pyrite; Quartz, 1%, loose
1823	1825	2	Limestone, 100%, tan, biopelsparite, pyrite
1825	1828	3	No samples
1828	1830	2	Limestone, 98%, tan to white, slightly dolomitic, silty; Dolomite, 2%, white
1830	1832	2	Limestone, 92%, tan, some VF quartz, silty, pyrite; Siltstone, 3%, calcareous
1832	1835	3	As above
1835	1840	5	Limestone, 99%, tan, white, much VF quartz; Sandstone, 1%, white, VF, angular, calcareous
1840	1842	2	Limestone, 100%, VF quartz Calcite/quartz = 75/25
1842	1845	3	Limestone, 95%, almost a calcareous sandstone Calcite/quartz = 55/45 Sandstone, 5%, calcareous
1845	1848	3	Sandstone, 60%, gray, calcareous, silty; Siltstone, 30%, gray; Limestone, 10%, light gray
1848	1851	3	Limestone, 100%, tan, oosparite Calcite/quartz = 93/7

Top	Bottom	Thickness		Gilmer 378
1851	1860	9	Siltstone, 70%, calcareous; Limestone, 20%, gray, silty, dolomitic; Dolomite, 10%, calcareous	
1860	1863	3	Limestone, 100%, tan, oosparite, VF quartz Calcite/quartz = 55/45	
1863	1866	3	Dolomite, 66%, white, some VF quartz, slightly calcareous; Quartz, 30, loose, VF; Limestone, 2%, tan; Shale, 2%	
1866	1873	7	Dolomite, 95%, white, calcareous, some dolomite is replacing ooids, pyrite; Limestone, 5%, oolitic, slightly dolomitic	
1873	1882	9	Dolomite, 99%, white, calcareous, pyrite; Siltstone, 1%, gray	
1882	1888	6	Limestone, 85%, gray, silty; Siltstone, 15%, gray, calcareous, slightly dolomitic	
1888	1891	3	Dolomite, 40%, white, calcareous; Limestone, 40%, gray, dolomitic; Siltstone, 20%, calcareous	
1891	1893	2	Limestone, 85%, gray, oolitic, dolomitic, silty; Dolomite, 15%, calcareous	
1893	1900	7	Limestone, 100%, tan, light brown, oolitic, VF and rounded Medium quartz, dolomitic, pyrite Calcite/dolomite/quartz = 85/5/10	
POCONO GROUP, 20+ feet				
1900	1905	5	Sandstone, 50%, gray, VF; Shale, 25%, gray; Siltstone, 25%, gray	
1905	1912	7	Shale, 75%, gray; Siltstone, 15%, gray; Sandstone, 10%, gray to green	
1912	1920	8	Sandstone, 90%, gray to green; Siltstone, 5%, grayish green; Shale, 5%, gray	

Irvin Snyder No. 6581 Well

Center District, Gilmer County, W. Va.

By Hope Natural Gas Company, Clarksburg, W. Va.

Located, 3.97 mi. W. of 80°50' and 3.45 mi. S. of 38°58' -C- Glenville Quadrangle;
1 mi. S. of Letter Gap.

Elevation, 1072' L.

Permit, Oil-578.

Deepening commenced Sept. 28, 1939; completed, Dec. 30, 1939.

No water recorded.

8 1/2" casing, 274'; 6-5/8", 860'; 5-3/8", 1791', all left in.

Casing not cemented. No coal was encountered.

Gas well.

Top	Bottom	Thickness	
<u>Pottsville Formation, 232+ feet</u>			
1428	1520	92	Sandstone, white, medium-grained (started drilling deeper at 1428')
1520	1572	52	Shale, dark-gray, very silty
1572	1592	20	Siltstone, gray, shaly, grading into very fine sandstone toward bottom; contains some siderite
1592	1600	8	Sandstone, gray, very fine
1600	1607	7	Siltstone, gray, shaly
1607	1620	13	Sandstone, gray, fine
1620	1660	40	Sandstone, white, medium- to coarse-grained, nearly all quartz; a little green shale in sample 1654-1660'
<u>Mauch Chunk Group, 84 feet</u>			
1660	1667	7	Limestone, gray, clayey; a little green shale
1667	1675	8	Shale, red
1675	1680	5	Shale, red and green
1680	1685	5	Siltstone, gray, calcareous, 70%; gray, green and red shale, 30%;avings of soft gray shale are present in samples from here to where casing was set at 1791'
1685	1710	25	Limestone, dark-brown; all samples contain soft gray shale, which decreases in amount from about 50% at top to 10% at bottom of interval

Top	Bottom	Thickness	
1710	1712	2	Sandstone, gray, fine, highly calcareous
1712	1718	6	Limestone, light-gray, 50%; soft gray and green, partly sandy shale, 50%
1718	1728	10	Limestone, light-brown, sandy, 80%; soft gray shale, 30% fine light-gray sandstone, 10%
1728	1744	16	Shale, gray, soft; some gray siltstone, 1728 to 1737'; top of underlying limestone is a little above 1744'
<u>Greenbrier Limestone, 166 feet</u>			
1744	1753	9	Limestone, dark-brown, fossiliferous; about 10% green shale
1753	1790	37	Limestone, brown with some nearly white
1790	1800	10	Limestone, dark-brown
1800	1805	5	Limestone, light-brown, somewhat sandy
1805	1813	8	Limestone, light grayish yellow; contains a little sand and dolomite
1813	1835	22	Limestone, light grayish yellow; contains a little sand
1835	1842	7	Limestone, light grayish yellow, very sandy
1842	1848	6	Sandstone, light-gray to brownish, highly calcareous; some greenish silty material, 1845 to 1848'
1848	1860	12	Limestone, light-brown, sandy; oolitic, 1848 to 1851'
1860	1866	6	Sandstone, very light brownish gray, highly calcareous; larger grains rounded and frosted
1866	1882	16	Limestone, light-brown, dolomitic
1882	1893	11	Limestone, dark-brown, somewhat dolomitic
1893	1900	7	Limestone, light-brown, sandy, oolitic
<u>Pocono Formation, 32+ feet</u>			
1900	1932	32	Siltstone, grayish-green, sandy, 70 to 90%; gray shale, 30 to 10%
	1932		Total depth