

A. B. Mollohan No. 1 (7661)

Birch District, Braxton County, W. Va.

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

Located, 1.53 mi. W. of 80°55' and 3.8 mi. S. of 38°40' - ~~38°~~ Gasaway Quadrangle;

0.7 mi. E. of Servia.

Elevation, 923' aneroid.

Permit, Brax-66.

Drilling commenced Nov. 8, 1938; completed, Jan. 6, 1939.

Fresh water at 20'; salt water at 543 and 1580'.

16" wood conductor, 16"; 18" casing, 64'; 10", 270'; 8½", 818'; 6-5/8", 1770';
all left in.

Coal was encountered at 508-513'.

Dry hole.

Top	Bottom	Thickness	
			876+
			<u>Pennsylvanian, 225 feet</u>
652	700	58	Sandstone, light-gray, medium-grained; contains biotite, muscovite, chlorite and kaolin
700	708	8	Shale, dark-gray
708	732	24	Sandstone, light-gray, fine; contains mica, chlorite and kaolin
732	747	15	Sandstone, light-gray, fine; and dark-gray shale
747	763	16	Shale, dark-gray to black
763	773	10	Siltstone, gray, micaceous
773	812	39	Sandstone, gray with green and brown specks, fine, micaceous
812	820	8	Shale, black, silty
820	830	10	Siltstone, gray
830	844	14	Sandstone, light-gray, very fine
844	850	6	Shale, dark-gray, containing siderite concretions
850	900	50	Sandstone, light-gray, very fine, micaceous
900	910	10	Siltstone, gray
910	920	10	Sandstone, light-gray, fine, micaceous
920	929	9	Siltstone, gray
929	952	23	Shale, gray
952	990	38	Sandstone, light-gray, fine; with considerable amount of darker gray and brown siltstone

Top	Bottom	Thickness	
990	1005	15	Sandstone, gray, fine; contains mica, chlorite, kaolin and pyrite
1005	1030	25	Siltstone and shale, gray
1030	1045	15	Sandstone, gray, fine; with considerable amount of darker siltstone
1045	1055	10	Siltstone, gray, shaly
1055	1072	17	Sandstone, gray, very fine; contains considerable mica and chlorite
1072	1085	13	No sample
1085	1103	18	Shale, dark-gray, silty; with fine gray sandstone
1103	1139	36	Siltstone, light-gray, calcareous
1139	1209	70	Shale, very dark gray, containing siderite concretions; mixed with considerable amount of lighter gray siltstone and very fine sandstone; a little coal between 1174 and 1186
1209	1216	7	Sandstone, light-gray, fine, micaceous
1216	1243	27	Siltstone, dark-gray to black, micaceous
1243	1254	6	Sandstone, gray, very fine
1254	1300	46	Siltstone, mixed light- and dark-gray, shaly
1300	1396	96	Siltstone and silty shale, dark-gray; also contains a few thin streaks of light-gray very fine sandstone
1396	1500	104	Sandstone, light-gray, fine- to medium-grained, except 10 feet very fine at top; sandstone contains some mica, chlorite, kaolin and siderite; samples also contain some gray shale and siltstone, perhaps partly cavings
1500	1523	23	Sandstone, nearly white, slightly pinkish, coarse; more nearly pure quartz than any of the sandstone above this; many of the quartz grains have crystal faces <u>Monk Chunk Group, 233 feet</u>
1523	1555	32	Sandstone, white, fine, nearly all quartz
1555	1580	25	Sandstone, rust-stained, medium- to coarse-grained, nearly all quartz
1580	1618	38	Sandstone, white from 1580 to 1591, rust stained below that; medium grained; nearly all quartz

Top Bottom Thickness

Mauch Chunk Group, 155 feet

1615	1621	6	Shale and siltstone, mixed red and gray (it looks as if the red color might be due to too much heat in drying; this interval is reported as black slate)
1621	1628	7	Siltstone, dark-gray
1628	1652	24	Siltstone, gray; with much very fine lighter gray sandstone which increases in amount toward the bottom; very small amount of calcareous material throughout
1652	1680	28	Shale, gray and green; with some siltstone and a little gray limestone
1680	1705	25	Limestone, dark brownish gray, fossiliferous (Little Line)
1705	1722	17	Siltstone, light-gray, highly calcareous, and about equal amount of dark-gray to grayish-green shale
1722	1730	8	Siltstone, gray, white and greenish, non-calcareous
1730	1751	21	Shale, dark-gray; with a little limestone near top and large amount toward bottom; limestone is gray to brownish and reddish, highly fossiliferous (much dark shale continues in samples to 1760)

Greenbrier Limestone, 192 feet

1751	1775	24	Limestone, gray, fossiliferous
1775	1830	55	Limestone, light grayish-yellow to nearly white, mostly very fine textured
1830	1898	68	Limestone, very light gray to grayish yellow, sandy and oolitic; below 1861 the amount of sand increases and the rock is almost a sandstone; the sand is poorly sorted as to size and the larger grains are rounded and frosted
1898	1930	32	Limestone, light-gray, somewhat dolomitic; not oolitic and contains very little sand; texture of carbonate mineral is a little coarser than in the limestones above
1930	1945	15	Sandstone, gray, medium-grained, with calcite and dolomitic cement; although the general color is gray some fragments are green, probably from glauconite and some have many small specks of brown; sand is poorly sorted, with larger grains well rounded; a few of larger quartz grains are blue

Top Bottom Thickness

Pocahontas, Catskill, etc., 810 feet

1948 2015 72 Shale, gray to grayish-green, with small amounts of siltstone

2015 2755 738 Shale and siltstone, gray; small amounts of grayish red shale from 2295 to 2370; some of samples are at intervals of 40 feet or more, so detailed description is impossible; the samples give no indication of the presence of the Berea sandstone or Sunburg shale

2755

Total depth