

J. B. Brannon No. 6 (7650) well  
By Pittsburgh and W. Va. Gas Co.  
Court House District, Lewis County, W. Va. Permit Lew-35.  
Thick-

Top	Bottom	Thick- ness	
1467	1795	328	Mauch Chunk Group
1795	1968	173	Greenbrier Limestone

Pocono Formation, 150 feet  
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1968	1988	20	Siltstone, grayish-green, shaly
1988	2098	110	Shale, gray, very silty, micaceous; with large amount of interbedded gray to grayish green siltstone; average texture is finer than in interval about, but perhaps siltstone rather than true shale is predominant.
2098	2118	20	Shale, very dark-gray, silty; some light-brown to gray and nearly white very fine slightly calcareous sandstone in two samples from 2103 to 2118; possibly Sunbury shale and Berea sandstone.

Devonian Shales, etc., 608+ feet.

2118	2176	58	Shale, gray, very silty, micaceous
2176	2196	20	Siltstone, brown, gray and grayish green; with much gray shale.
2196	2205	9	Shale, gray, silty, micaceous
2205	2235	30	Shale, gray, silty micaceous; all four samples in this interval contain small amounts of light-gray, poorly sorted sandstone, which has some small quartz pebbles in matrix of fine to very fine sand.
2235	2312	77	Shale, gray; with streaks of gray and green siltstone and in some samples a little fine sandstone.
2312	2323	11	Sandstone, light grayish green, very fine, micaceous; with gray and green shale.
2323	2328	5	Shale, gray with small amount of bright-green.
2328	2331	3	Sandstone, light-gray, mostly fine, but contains a few large quartz grains.
2331	2343	12	Shale, gray.
2343	2351	8	Siltstone, grayish green; contains a few sand grains and is mixed with nearly equal amount of gray shale.
2351	2375	24	Shale, gray.
2375	2378	3	Sandstone, light-gray, mostly fine but contains few very coarse quartz grains.
2378	2383	5	Shale, gray, with some red and green.
2383	2390	7	Sandstone, light grayish green, fine to very fine, poorly sorted.
2407	2413	6	Shale, gray.
2413	2425	12	Siltstone, gray and green; with some gray and green shale and a little sandstone.
2425	2429	4	Shale, gray and green.
2429	2434	5	Sandstone, gray, very fine.
2434	2441	7	Shale, green, gray and red.
2441	2490	39	Shale, gray, interstratified with gray and green siltstone.
2490	2504	14	Shale, gray; with small proportion of poorly sorted sandstone containing some coarse quartz grains.

Top	Bottom	Thick- ness	
2504	2536	32	Shale, grayish-green, interstratified with siltstone.
2536	2553	17	Shale, red
<del>2536</del>	2597	44	Shale, gray.
2597	2615	18	Siltstone, brown, micaceous.
2615	2726	111	Shale, gray; with small amounts of gray and green siltstone.
	2726		Total depth.

J. E. Branon No. 6 (7650) Well.

Court House District, Lewis County, W. Va.

By Pittsburgh and W. Va. Gas Company, Pittsburgh, Pa.

Located 1.66 mi. W. of 80°30' and 1.45 mi. S. of 39°00' -NE- Burnsville Quadrangle.

1.4 mi. E. of Flusher School and 3.8 mi. N. E. of Finster.

On 1100 acres.

Elevation, 1063' L.

Surface owned by Mrs. Bertha Keener, 225 Center Street, Weston, W. Va., and minerals  
by H. M. Bennet, Weston, W. Va.

Drilled under permit, Lewis-35.

Drilling commenced, Dec. 10, 1938; completed, Jan. 30, 1939.

Shot Jan. 31, 1939, at 1924 to 1936'.

Open flow, 5/10 the water in 1" after shot.

Fresh water at 25'.

13" wood conductor, 16'; 10" casing, 159'; 8 1/2", 804'; 6 5/8", 1598'; all left in.

Coal was encountered at 792-795, 935-938, and 1005-1006'.

Dry Hole.

Record Based on Examination of Samples,

(except 0 to 192 feet and position of coals  
from driller's record)

Top	Bottom	Thickness	
0	20	20	Clay, red, open
20	25	5	Soapstone, blue, open
25	35	10	Sand, white, open (water at 25 feet, 5 bailers per hour)
35	53	18	Lime, gray, hard
53	68	15	Sand, white, open
68	94	26	Slate, white, soft
94	96	2	Red rock, soft
96	170	74	Lime, white, hard
170	192	22	Slate, white, soft
192	210	18	Clay red, calcareous
210	247	37	Siltstone, green; with much red clay, perhaps mostly savings; a little limestone in bottom 12 feet

Top	Bottom	Thickness	
247	265	18	Shale, red, gray and green, soft, calcareous; considerable green siltstone in upper 13 feet
265	271	6	Clay, red and yellow, calcareous
271	300	29	Siltstone, green, calcareous; coarser toward bottom and grades into sandstone
300	320	20	Sandstone, light-green, fine- to medium-grained, slightly calcareous
320	350	30	Siltstone and silty shale, green, calcareous; some red clay in bottom 12 feet
350	368	18	Clay, red, calcareous
368	378	10	Siltstone, green, calcareous
378	412	34	Sandstone, very light-green, fine, calcareous
412	425	13	Clay, red and gray, slightly calcareous
425	437	12	Shale, green, partly silty
437	443	6	Shale, red
443	448	5	Shale, gray and green, soft, highly calcareous
448	461	13	Limestone, gray, very fine textured; samples also contain much soft gray and green shale
461	480	19	Shale, green, partly silty, highly calcareous; fine textured gray to yellow limestone apparently occurs as streaks and nodules in the shale
480	502	22	Clay, red, calcareous
502	515	13	Shale, green; bottom 6 feet very silty
515	521	6	Sandstone, fine, calcareous; green, covered with brown stain
521	541	20	Shale, green, silty, micaceous
541	549	8	Clay, gray; with about 20% of fine textured limestone
549	556	7	Siltstone, green, containing siderite spherulites
556	562	6	Shale, gray and black, soft
562	576	14	Clay and soft shale, 80% light- to medium-gray, 20% red; a few fragments with siderite spherulites
576	582	6	Siltstone, green
582	642	60	Sandstone, very light, grayish green, fine- to medium-grained; contains muscovite, biotite, chlorite and kaolin
642	645	3	Shale, black; with a little pyritic coal and a few fragments of siderite nodules

Top	Bottom	Thickness	
645	679	34	Clay and soft shale, gray, mostly rather light; not distinctly laminated
679	691	12	Siltstone, green, containing siderite spherulites
691	708	17	Sandstone, nearly white, fine; with streaks of gray shale and siltstone from 696 to 708'
708	773	65	Shale, gray to grayish-green, partly silty; small proportion of calcareous material and of shale fragments with siderite spherulites
773	793	20	Sandstone, white, coarse; contains kaolin and is not very firmly cemented
793	795	2	Coal
795	804	9	Shale, gray, partly silty
804	814	10	Sandstone, gray, fine
814	831	17	Shale, gray, silty
831	846	15	Shale, gray, soft; with a considerable proportion of limestone which probably occurs as nodules in the shale
846	913	67	Sandstone, nearly white, medium-grained; contains kaolin, mica, chlorite and siderite
913	935	22	Sandstone, light-brown, fine
935	938	3	Coal
938	969	31	Shale, gray, mostly silty; a little fire clay near top
969	1003	34	Shale, gray, mostly silty; a little darker than last
1003	1006	3	Coal
1006	1070	64	Sandstone, very light gray, slightly greenish, fine; contains kaolin, mica and chlorite
1070	1088	18	Sandstone, dark-gray, very fine, shaly, carbonaceous
1088	1110	22	Sandstone, about half dark-gray, very fine, shaly and carbonaceous, and half, fine, nearly white
1110	1143	33	Sandstone, nearly white, fine, micaceous; a little dark-gray shale and traces of coal from 1116 to 1123'
1143	1181	38	Shale, black, silty
1181	1205	24	Sandstone, light-gray, fine, micaceous; with about 40% of black, silty shale, perhaps mostly from above
1197	1230	33	Sandstone, light-gray fine, 60%; gray to dark-gray shale and siltstone, 40%
1230	1272	42	Shale, dark-gray to black, silty; contains some siderite concretions

Top	Bottom	Thickness	
1272	1360	88	Sandstone, nearly white, fine; dark shaly streaks from 1317 to 1329', but otherwise has high proportion of quartz (show of gas and oil at 1309'; SIM 1311')
1360	1433	73	Sandstone, light-gray, medium- to fine-grained; contains mica, chlorite, pyrite, siderite, kaolin and carbonaceous material; not greatly different from the sandstone above but contains less quartz, is not broken quite so small, and is a little darker colored (show of oil at 1365')
1433	1450	17	Shale, black, with siderite nodules and between 1440 and 1450' a little coal
1450	1467	17	Shale and siltstone, dark-gray to brownish; a little sandstone at or near bottom of interval <u>Mauch Chunk Group, 228 feet.</u>
1467	1476	9	Siltstone, grayish-green, partly calcareous; contains some siderite
1476	1492	16	Shale, green with some red, calcareous
1492	1589	97	Shale, red, very soft, slightly calcareous; most samples contain some soft grayish-green shale, the maximum proportion of which is about 20 <sup>3</sup> / <sub>100</sub> percent at the top of the interval
1589	1614	25	Shale, red with some green, silty and micaceous, slightly calcareous,
1614	1619	5	Sandstone, nearly, white, very fine; with about equal amount of gray silty shale
1619	1631	12	Siltstone, gray
1631	1647	16	Shale, green and red, calcareous; some very fine textured gray to greenish and reddish limestone
1647	1678	31	Siltstone, green, micaceous and chloritic; small red spots (hematite) can be seen in many of the siltstone fragments under the microscope
1678	1704	26	Shale, red with some green, partly silty, calcareous
1704	1720	16	Shale, gray, very silty; with considerable amount of red and green shale, perhaps mostly oarings
1720	1734	14	Shale, gray, highly calcareous
1734	1761	27	Limestone, dark-gray to brownish, fossiliferous (Little Lime)

Top Bottom Thickness

1761 1795 34 Shale, gray and green, mostly very fine textured; all six samples in this interval contain a large proportion of dark-gray and brown fossiliferous limestone and some are nearly half limestone, so the actual thickness of the shale is probably less than 34 feet (Pencil Cave)

Greenbrier Limestone, 173 feet.

1795 1801 6 Limestone, dark-brown (gray when dry) fossiliferous

1801 1816 15 Limestone, gray to brown, oolitic and fossiliferous; oolites mostly well cemented together; samples also contain some gray and green shale, perhaps all oolites

1816 1882 66 Limestone, brownish-gray, fossiliferous; contains few if any oolites; 1854 to 1863 is darker than the rest

1882 1889 7 Limestone; brownish-gray, sandy

1889 1903 14 Shale, red and green, with some green siltstone and fine sandstone toward bottom

1903 1916 12 Limestone, light-gray, oolitic, very sandy; larger grains rounded and frosted

1916 1932 17 Limestone, light-gray, slightly brownish, very sandy; detrital quartz is poorly sorted and varies in size from medium-grained sand to silt; larger grains are well rounded (show of gas at 1925 to 1928)

1932 1941 9 Limestone, brownish-gray, not sandy or oolitic

1941 1950 9 Limestone, brownish-gray, sandy, oolitic; contains a very little glauconite

1950 1968 18 Limestone, nearly white, sandy, with larger grains rounded; contains a little dolomite and glauconite

Pocahontas Formation, 150 feet.

1968 1988 20 Siltstone, grayish-green, shaly

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