

D. J. Rexroad No. 1 (1541)

DeKalb District, Gilmer County, W. Va.

By Carnegie Natural Gas Company, Pittsburgh, Pa.

Located 5.5 mi. S. of 39°00' and 4.2 mi. W. of 80°50' -NC- Glenville Quadrangle.

Elevation, 1310' L.

Permit Gil-358.

Drilling commenced May 13, 1939; completed June 7, 1939.

Gas well; 424,000 cu. ft. per day; rock pressure 590 lbs. in 12 hrs.

Salt water at 1440'.

Coal at 1323 and 1832'.

10" casing 22'; 8½", 1072'; 6-5/8", 1998'.

Samples from 15 to 1930' examined by C. Apour and J. H. C. Martens.

According to the geologic map the Pittsburgh Coal horizon is at an elevation of 850 feet at the locality of the well, but this horizon could not be identified from the drill cuttings or the driller's record.

Top Bottom Thickness

Dunkard, Monongahela and Conemaugh, 976+ feet

0	15	15	Clay
15	45	30	Sandstone, white, coarse, micaceous, and calcareous
45	60	15	Siltstone, green, shaly, 50%; shale, brownish-red, 50%
60	95	35	Shale, red, 80%; green shaly siltstone, 20%
95	100	5	Siltstone and shale, light-green, soft, clayey
100	125	25	Siltstone, gray, sandy, micaceous
125	130	5	Siltstone, green, shaly
130	138	8	Shale, red
138	143	5	Shale, gray and green
143	155	12	Shale, red
155	175	20	Shale, green, silty
175	230	55	Shale, red
230	245	15	Shale, gray to light-gray, soft
245	250	5	Shale, gray
250	256	6	Siltstone, green, sandy
256	280	24	Sandstone, white, fine, containing siderite
280	300	20	Siltstone, light-green, very sandy, micaceous

Top	Bottom	Thickness	
300	305	5	Shale, red, 50%; green shale, 50%
305	325	20	Shale, red
325	335	10	Shale, green, silty
335	345	10	Shale, red
345	395	50	Siltstone, green, shaly
395	400	5	Shale, light-brown
400	430	30	Shale, red
430	440	10	Shale, green, silty
440	488	48	Sandstone, white to greenish, fine, micaceous
488	525	37	Sandstone, white, medium-grained
525	551	26	Shale, red
551	565	14	Siltstone, green
565	600	35	Sandstone, light-green, fine
600	670	70	Shale, red and yellow
670	675	5	Siltstone, green, shaly
675	680	5	Shale, red
680	685	5	Limestone, light-gray; also some red shale
685	695	10	Shale, green, silty
695	722	27	Siltstone, green, sandy
722	728	6	Shale, red to yellow, 50%; siltstone, green to gray with siderite spherulites
728	736	8	Siltstone, light-green, shaly
736	755	19	Shale, gray to light-gray, soft
755	764	9	Shale, light-gray, calcareous
764	790	26	Shale, red to yellow, soft
790	815	25	Siltstone, green, shaly
815	825	10	Sandstone, light-green, fine
825	830	5	Siltstone, light-green
830	835	5	Coal, 40%; green siltstone, etc., 60%
835	850	15	Siltstone and shale, dark-gray to black
850	858	8	Shale, gray to light-gray
858	895	37	Siltstone and shale, gray to green
895	920	25	Sandstone, white, medium-grained
920	947	27	Shale, light-gray to greenish, partly silty and sandy

Top	Bottom	Thickness	
947	976	29	Sandstone, white, fine to medium-grained; much shale carvings in samples
<u>Allegheny Formation, 229 feet</u>			
976	998	22	Shale, light-green to gray
998	1008	10	Sandstone, white, fine
1008	1050	42	Shale, gray to greenish
1050	1080	30	Sandstone, white, coarse
1080	1092	12	Sandstone, white, fine
1092	1155	63	Shale and siltstone, gray to greenish
1155	1165	10	Siltstone, light-gray, sandy
1165	1175	10	Shale, gray
1175	1185	10	Siltstone, gray
1185	1200	15	Shale, light-gray; little coal 1185-1195'
1200	1205	5	Siltstone, light-gray
<u>Pottsville Formation, 717 feet</u>			
1205	1290	85	Sandstone, white, medium- to coarse-grained
1290	1300	10	Siltstone, gray; a little coal and black shale
1300	1308	8	Shale, gray
1308	1323	15	Sandstone, gray, very fine, silty
1323	1325	2	Coal
1325	1330	5	Siltstone, gray, shaly
1330	1345	15	Sandstone, gray, very fine
1345	1358	13	Shale, light-brown
1358	1380	22	Siltstone and shale, gray to dark-gray
1380	1398	18	Sandstone, nearly white, fine, 70%; dark-gray shale and siltstone, 30%
1398	1430	32	Shale, dark-gray to black, with a little coal; also some gray siltstone
1430	1455	25	Sandstone, gray to white, fine
1455	1457	2	Coal and black shale
1457	1465	8	Sandstone, gray, very fine
1465	1485	20	Shale, dark-gray
1485	1495	10	Siltstone, dark-gray to black
1495	1505	10	Sandstone, gray, very fine

Top	Bottom	Thickness	
1505	1515	10	Shale, gray, very silty
1515	1540	25	Siltstone, dark-gray, shaly, micaceous
1540	1555	15	Sandstone, light-gray, very fine, micaceous
1555	1580	25	Sandstone, light-gray, fine
1580	1590	10	Siltstone, dark-gray, shaly, micaceous
1590	1638	48	Sandstone, nearly white, fine- to medium-grained
1638	1660	22	Shale, dark-gray, silty
1660	1675	15	Siltstone, gray
1675	1719	44	Shale, dark-gray, interbedded with some siltstone
1719	1740	21	Shale, black, with a little coal; also considerable amount of gray siltstone
1740	1777	37	Shale and siltstone, gray to dark-gray
1777	1832	55	Sandstone, white, medium-grained, nearly all quartz; crystal faces on many grains
1832	1836	4	Coal
1836	1869	33	Shale and siltstone, gray
1869	1887	18	Shale, dark-gray
1887	1914	27	Siltstone, gray, shaly
1914	1922	8	Sandstone, white, coarse, nearly all quartz
<u>Mauch Chunk Group, 53 feet</u>			
1922	1924	2	Shale, gray and green
1924	1930	6	Shale, gray and green, 90%; yellow to light-brown limestone, 10%
1930	1938	8	Slate, black
1938	1946	8	Little Lime
1946	1976	29	Slate
<u>Greenbrier Limestone, 33+ feet</u>			
1976	1998	33	Big Lime
	1998		Total depth, SLM