

Flemington District, Taylor County, W. Va.

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

Located 2.44 mi. S. of 39°20' and 1.06 mi. W. of 80°10' - SW - Fairmont Quadrangle.

Elevation 1289' B.

Permit Tay-15.

Drilling commenced April 13, 1942; completed, May 15, 1942.

Gas well; 244,000 cu. ft.

Rock pressure 525 lbs. in 64 hrs.

Coal at 407' - 60"; 590'-60"; 636'-36".

10" casing 159'; 8", 670'; 6 5/8", 1313'; 2" tubing 1454'

Section based on samples from 295 to 1454', examined by C. W. Apsourl, and driller's record from surface to 295'. Although the sand in which the gas pay is located is reported as Big Injun, the samples show definitely that it is within the Greenbrier Limestone.

Top	Bottom	Thickness	
<u>Conemaugh, Allegheny, and Pottsville, 1000 ft.</u>			
0	7	7	Red rock, 36 ft. soft
7	20	13	Line, white
20	60	40	Red rock, soft
60	85	25	Slate, white, soft
85	112	27	Red rock, soft
112	157	45	Slate, white, soft
157	174	17	Line, dark, hard
174	180	6	Red rock, soft
180	265	85	Line, dark, hard
265	275	10	Red rock, soft
275	295	20	Line, gray, hard
295	318	23	Sandstone, white to greenish-gray, with specks of siderite
318	342	24	Shale, dark-gray
342	360	18	Shale, very light-brown, soft, calcareous
360	407	47	Sandstone, white, fine, with specks of siderite and flakes of muscovite
407	412	5	Coal (Thickness from driller's record)
412	417	5	Shale, black

Top	Bottom	Thickness	
417	422	5	Sandstone, white, very fine, silty
422	455	33	Sandstone, white
455	459	4	Shale, light-gray, silty, 75%; black shale and coal 25% (Upper Freeport Coal Horizon?)
459	483	24	Shale, gray
483	500	17	Sandstone, white, fine, with mica and siderite
500	530	30	Sandstone, white
530	536	6	Shale, gray, silty
536	549	13	Siltstone, light-gray, with siderite spherulites
549	590	41	Shale, gray
590	595	5	Coal
595	608	13	Shale, gray to brown
608	636	28	Sandstone, white
636	639	3	Coal
639	657	18	Sandstone, white
657	714	57	Shale, gray
714	839	125	Sandstone, white
839	846	7	Shale, black, 80%; white sandstone, 20%
846	930	84	Sandstone, white, fine
930	953	23	Shale, gray
953	968	15	Siltstone, light-gray, shaly
968	983	15	Siltstone, light-gray, shaly, 50%; white, very fine sandstone, 50%
983	1000	17	Sandstone white, medium-grained; some very coarse sand grains
<u>Mauch Chunk Group, 288 feet</u>			
1000	1030	30	Shale, green
1030	1037	7	Siltstone, green sandy
1037	1058	21	Shale, red, 60%; green shale, 40%
1058	1075	17	Siltstone and shale, green
1075	1083	8	Siltstone, green, sandy
1083	1090	7	Shale, red, 60%; green shale, 40%
1090	1099	9	Siltstone, green, very calcareous
1099	1100	1	Shale, red, 65%; green shale, 35%
1100	1136	36	Sandstone, white to slightly greenish, very fine

Top	Bottom	Thickness	
1136	1142	6	Shale, gray
1142	1157	15	Siltstone, grayish-green, shaly
1157	1165	8	Shale, gray
1165	1188	23	Siltstone, green, sandy
1188	1196	8	Shale, green, with small limy concretions
1196	1212	16	Shale, red
1212	1220	8	Shale, green
1220	1230	10	Shale, red, 65%; green shale, 35%
1230	1248	18	Shale, gray, calcareous
1248	1257	9	Shale, gray, calcareous; a few pieces of dark-gray limestone
1257	1270	13	Limestone, brown to gray ("Little Lime")
1270	1280	10	Shale, gray, in part thinly laminated ("Pencil Cave")
1280	1288	8	Shale, red, calcareous, 50%; greenish-gray calcareous shale, 50%
<u>Greenbrier Limestone, 166+ feet</u>			
1288	1296	7	Limestone, brown
1296	1303	8	Limestone, gray, shaly
1303	1345	42	Limestone, brown to light-brown
1345	1366	21	Limestone, dark-brown, shaly
1366	1371	5	Limestone, white, sandy
1371	1384	13	Sandstone, white, very fine, calcareous, 75%; green sandy and calcareous shale, 25%
1384	1400	16	Sandstone, white, very fine <i>calcareous</i>
1400	1408	8	Limestone, light-brown, sandy, 85%; green calcareous shale, 15% (show of gas 1400-1401').
1408	1410	2	Sandstone, white, very fine
1410	1416	5	Sandstone, white, very fine, 50%; green sandy shale, 50%
1416	1436	21	Sandstone, white, very fine (gas, 1428-1436')
1436	1441	5	<i>Limestone, gray</i> Shale, very light grayish-green, calcareous
1441	1454	13	Limestone, dark-gray
	1454		Total depth, 311'