

George M. and Virginia B. Martin No. 1

Eagle District, Harrison County, W. Va.

By Eagle Gas Company, Lumberport, W. Va.

Located 4.33 mi. W. of 80°20' and 0.3 mi. S. of 39°25' -C- Clarksburg Quadrangle.

Elevation, 1040.8' L.

Permit Har-78

Drilling commenced May 11, 1940; completed Aug. 23, 1940.

Gas well; volume, 170,000 cu. ft.

Fresh water in Pittsburgh Coal; salt water at 978 and 988'.

Coal at 105' and 903'.

10" casing 169'6"; 8 1/4", 983'; 6-5/8", 1432'.

Section based on examination of samples from 240 to 2585' by J. H. C. Martens.

The samples from 240 to 420' are such complex mixtures that they cannot be interpreted.

Top	Bottom	Thickness	
<u>Monongahela Formation, 114+ feet</u>			
105	114	9	Pittsburgh Coal (from driller's record)
<u>Conemaugh Formation, 561 feet</u>			
420	460	40	Clay, red, calcareous
460	476	16	Siltstone, light-green, sandy
476	498	22	Sandstone, nearly white, fine
498	504	6	No sample
504	520	16	Sandstone, white, coarse
520	536	16	Shale, gray, soft
536	552	16	Shale, green
552	558	6	Shale, gray, soft
558	582	24	Shale, dark-gray
582	589-	7	Sandstone, white, medium-grained, 70%; soft gray shale, 30%
589	616	27	Sandstone, light-green, fine, with siderite spherulites, 60%; light-gray and dark-gray shale, 40%
616	630	14	Sandstone, nearly white, medium-grained, 60%; green siltstone and shale, 40%
630	648	18	Sandstone, white, medium-grained
648	675	27	Sandstone, nearly white, fine - to medium-grained; small amounts of gray and green shale and silt stone

Top Bottom Thickness

Allegheny and Pottsville, 581 feet

675	704	29	Limestone, light-brown, clayey, 50%; gray to greenish shale, 30%; fine white sandstone, 20%
704	719	15	Siltstone, light-gray, sandy
719	737	18	Shale and siltstone, gray
737	750	13	Sandstone, white, fine
750	798	48	Sandstone, gray, fine to very fine; small amounts of gray silty shale
798-	817	21	Siltstone, gray, shaly
817	892	75	Sandstone, white, medium-grained
892	908	16	Coal (903 to 917' in driller's record)
908	916	8	Sandstone, gray, medium-grained
916	924	8	Siltstone, dark-gray
924	967	43	Sandstone, white, medium-grained
967	985	18	Sandstone, white, coarse (water at 978')
985	994	11	Sandstone, light-brown, medium-grained
994-	1000	6	Siltstone, dark-gray, shaly
1000	1020	20	Shale, black
1020	1114	94	Sandstone, white, medium- to coarse-grained
1114	1122	8	Sandstone, light-gray, fine
1122	1168	46	Sandstone, nearly white, medium-grained; contains a little siderite and carbonaceous matter
1168	1228	60	Shale, black, silty
1228	1256	28	Sandstone, white, coarse, 70%; grayish-green, fine, silty sandstone, 30%; considerable siderite near bottom

Mauch Chunk Group, 152 feet

1256	1345	89	Shale, red and green; calcareous, 1304-1345'
1345	1357	12	Siltstone, gray
1357	1369	12	Limestone, dark-brown, fossiliferous
1369	1395	27	Limestone, dark-brown, fossiliferous, 70%; gray, soft, distinctly laminated shals, 30%
1395	1408	13	Shale, gray, soft, distinctly laminated

Top	Bottom	Thickness	
<u>Greenbrier Limestone, 153 feet</u>			
1408	1440	32	Limestone, very light brown
1440	1450	10	Limestone, light-brown
1450	1456	6	Sandstone, nearly white, fine, calcareous
1456	1466	10	Limestone, light-brown to brown
1466	1488	22	Sandstone, white, fine to medium-grained, calcareous
1488	1500	12	Sandstone, white, medium-grained, calcareous, 90%; green shale, 10%
1500	1518	18	Sandstone, nearly white, fine, highly calcareous
1518	1550	32	Limestone, white, very sandy, dolomitic
1550	1561	11	Sandstone, white, medium-grained, dolomitic; grains are rounded and frosted
<u>Lower Mississippian and Upper Devonian, 1029+ feet</u>			
1561	1588	27	Siltstone, gray and green, 60%; gray silty shale, 40%
1588	1635	47	Sandstone, light-gray to white, fine, 70 to 80%; gray shale and siltstone, 30 to 20%
1635	1650	15	Siltstone and silty shale, white
1650	1775	125	Siltstone, light-gray, coarse, sandy, 80 to 90%; gray shale, 20 to 10%
1775	1931	156	Siltstone and shale, gray; similar to interval above but darker and finer; much more siltstone than shale; from 1906 to 1931' there is about 30% of very dark gray shale, possibly corresponding to the Sunbury Shale
1931	1968	37	Sandstone, nearly white, very fine, 60%; gray siltstone and shale, 40%
1968	2042	74	Siltstone and shale, gray
2042	2082	40	Sandstone, white to light-green, fine to very coarse; variable in texture and poorly sorted
2082	2120	38	Shale, gray
2120	2140	20	Sandstone, nearly white, coarse
2140	2153	13	Shale, gray
2153	2165	12	Shale, gray, 70%; red shale and siltstone, 30%
2165	2171	6	Shale and siltstone, gray

Top	Bottom	Thickness	
2171	2179	8	Siltstone, red
2179	2183	4	Sandstone, red, fine
2183	2206	23	Shale, gray and green, with sandy streaks
2206	2239	33	Sandstone, nearly white, medium-grained, 60 to 80%; gray shale, 40 to 20%
2239	2240	1	Shale, gray (perhaps savings)
2240	2282	42	Sandstone, white to light-gray and light-brown, medium- to coarse-grained; small amounts of gray shale
2282	2301	19	Sandstone, gray fine to very fine, dolomitic, 60 to 70%; gray shale, 40 to 30%
2301	2326	25	Sandstone, white, very coarse, pebbly (gas 2301-2307')
2326	2344	18	Sandstone, gray, fine, 50%; gray shale, 50%; a few coarse sand grains
2344	2351	7	Sandstone, nearly white, very coarse
2351	2366	15	Sandstone, white, fine, 60%; gray silty shale, 40%
2366	2418	52	Shale and siltstone, gray
2418	2425	7	Sandstone, white, fine, 60%; gray shale, 40%
2425	2529	104	Shale and siltstone, gray; some of siltstone is green and brown and some shows gradation into sandstone
2529	2585	56	Siltstone, grayish-green, 70%; gray shale, 30%
	2590		Total depth