

MAY 2 1951



J. Paul Martin No. 1(9208) Well.

Portland District, Preston County, W. Va.
 By Hope Natural Gas Company, Clarkburg, W. Va.
 Located 5.32 Mi. South of 39° 30' and 3.93 Mi. W. of 79° 30'.
 Kingwood Quadrangle - NE
 Elevation 1934' L.
 Permit - Preston No. 7.
 Drilling commenced March 27, 1948; completed September 25, 1948.
 Well was not shot.
 Gas Well; Volume 4,762,000 Cubic Feet.
 Rock pressure 2090 lbs. in 45 hours.
 Fresh water 45', hole full; 340', 3 bbls per hour.
 Salt water; none recorded.
 16" casing, 19 1/2'; 11", 331'; 9", 1588'; 7", 5085'; all left in.
 No coal recorded.

~~Section based on samples from 4208-5437 1/2'~~
 Section based on samples from 4208-54 37 1/2' examined by Russell R. Flowers

Top	Bottom	Thickness	
4208	4238	30	Shale, grayish-black to black (highly carbonaceous) (interval corrected from 4238 to 4230 1/2', calcareous in part at the bottom)
<u>Tully Limestone, 15 Feet.</u>			
4230	4245	15	Limestone, olive-gray to brownish-gray, very fine textured, shaly; a very large amount of dark-gray to black shale, calcareous in part; the limestone is probably not over half of this interval
<u>Hamilton and Marcellus shales, 937 feet.</u>			
4245	4285	40	Shale, dark-gray to grayish-black
4285	4297	12	No sample
4297	4310	13	Shale, medium dark gray to grayish-black, calcareous in part; small amount of pyrite
4310	4348	38	Shale, grayish-black, some dark-gray to grayish-black at the top
4348	4402	54	Shale, dark-gray to grayish-black, some grayish-black to black (carbonaceous); small amount of white vein calcite
4402	4462	60	Shale, mostly grayish-black
4462	4480	18	Shale, dark-gray, some grayish-black; small amount of olive-gray, shaly limestone at the bottom
4480	4523	43	Shale, dark-gray to grayish-black
4523	4675	152	Shale, mostly grayish-black
4675	4685	10	Shale, dark-gray to olive-black, slightly calcareous; small amount of olive-gray, very shaly limestone; some grayish-black shale
4685	4690	5	Shale, dark-gray to grayish- and olive-black
4690	5018	328	Shale, grayish-black to black (highly carbonaceous), some grayish-black at the top and 4756-4762'
5018	5050	32	Shale, black (highly carbonaceous), grayish-black to black, pyritic; small amount of light gray, vein calcite

5050	5065	15	Shale, dark-gray to olive-black, calcareous; some dark-gray to grayish-black shale, calcareous in part
5065	5085	20	Shale, grayish-black to brownish-black, highly calcareous
5085	5111	26	Shale, dark-gray to grayish-black, somewhat calcareous, somewhat darker in color in the lower part
5111	5135	24	Shale, grayish-black to black (highly carbonaceous); some dark gray to, grayish-black
5135	5176	41	sh Shale, black, some grayish-black to black, very highly carbonaceous, highly calcareous in part, pyritic in part, many pieces of this shale show slickensides; some white to light-gray, vein walcite
5176	5182	6	Shale, black, some grayish-black to black, much of this shale is highly calcareous; a moderate amount of olive-black to brownish-black, shaly, highly micaceous siltstone (bentonite?)

Huntersville Chert, 228 Feet.

5182	5208	26	Limestone (very shaly) to shale (calcareous), grayish-black to black; small amount is siliceous to chert (shaly); a large amount of olive-black to brownish-black, highly micaceous, shaly siltstone (bentonite ?) in the upper part; all of the samples contain large amounts of grayish-black to black shale (probably cavings); some grayish-black, glauconitic shale at the bottom
5208	5223	15	Chert, light-gray (transparent) to medium-gray (translucent), dark-gray to brownish and grayish-black (shaly), calcareous; a large amount of dark-gray to grayish-black shale at 5217-5219'
5223	5226	3	Chert, light- to medium-gray mottled with dark-gray to grayish-black shaly material, highly calcareous, very highly calcareous at the top, somewhat dolomitic
5226	5234	8	Chert, very light to medium-gray, translucent to opaque, calcareous, highly calcareous at the top, moderately dolomitic in the lower part
5234	5235	1	Chert, very light to medium light gray, somewhat calcareous and dolomitic
5235	5239	4	Chert, light- to medium-gray, translucent to "dead"; some dark-gray to grayish-black (shaly) in the upper part, somewhat calcareous and dolomitic
5239	5243	4	Chert, very light to medium light gray to transparent to translucent, mostly translucent at the top, slightly dolomitic, contains scattered siliceous sponge spicules (?)
5243	5247	4	Chert, very light to light-gray (with spots and streaks of dark-gray, shaly material), slightly dolomitic, mostly translucent, most of the chert contains siliceous (sponge ?) spicules
5247	5256	9	Chert, light- to medium light gray mottled with dark-gray to grayish-black (shaly) material, transparent to opaque, slightly dolomitic, somewhat darker in color at 5254 to 5255', contains @ large numbers of siliceous spicules (sponge spicules ?)

256	5262	6	Chert, white (milky) to light-gray (translucent) mottled with dark-gray to grayish-black (very shaly, "dead"), slightly dolomitic, contains siliceous spicules (sponge spicules ?)
5262	5269	7	Chert, medium-gray (translucent to transparent) with dark-gray to grayish-black very silty, shaly streaks, most of the chert contains siliceous sponge spicules (?); a very small amount of dolomite
5269	5271	2	Chert, medium light to medium dark gray (with dark-gray to grayish-black, shaly spots and streaks), contains siliceous sponge spicules (?)
5271	5284	13	Chert, light-to medium light gray (transparent to translucent) mottled with dark-gray to grayish-black (very shaly), contains many siliceous spicules (sponge ?) throughout this interval; a very small amount of dolomite
5284	5286	2	Chert, medium- to dark-gray, translucent to "dead", silty; some dark-gray to grayish-black, very silty, shaly chert; a very small amount of dolomite
5286	5293	7	Chert to siltstone, medium to medium dark gray and some dark-gray (very shaly), somewhat dolomitic; trace of glauconite
5293	5298	5	Chert, medium dark gray ("dead"), a large amount of dark-gray to grayish-black (very shaly), silty, highly glauconitic in part at the bottom; small amount of white dolomite
5298	5302	4	Chert, medium dark to dark-gray ("dead"), some light- to medium-gray (transparent), some dark-gray to grayish-black (very shaly), silty, small amount is dolomite
5302	5315	13	Chert, medium dark gray (silty) to grayish-black (very shaly, silty), mostly dark-gray to grayish-black at the top
5315	5317	2	Chert (shaly) to shale (siliceous) grayish-black, some dark gray; small amount of medium dark gray chert
5317	5331	14	Chert, medium-to medium dark gray, silty; some dark-gray to grayish-black, very shaly chert to siltstone
5331	5343	12	Chert, medium dark gray to dark-gray, a large amount of dark-gray to grayish-black (very shaly)
5343	5350	7	Chert, dark-gray to grayish-black, very shaly to siliceous shale; some medium dark gray chert
5350	5360	10	Chert, medium dark gray to a siliceous shale, grayish-black
5360	5369	9	Chert to siliceous shale, grayish-black
5369	5382	13	Shale, grayish-black, siliceous
5382	5405	23	Shale, grayish-black, some grayish-black to black; small amount of pyrite and white to light-gray vein calcite
5405	5410	5	Limestone (very shaly) to calcareous shale, grayish-black; a large amount of brownish-black to grayish-black shale, sandy and glauconitic at the bottom

Oriskany Sandstone, 27½ Feet.

5410	5414	4	Sandstone, white to light-gray, fine- to medium-grained, some coarse grains, subrounded to rounded (mostly clear and glassy quartz) calcareous; the largest part of the sample of this interval is grayish-black shale
5414	5425	11	Sandstone, light-gray, very fine to fine-grained, subrounded, some medium to coarse rounded grains, calcareous
5425	5435	10	Sandstone, light-gray, very fine to medium grained, subrounded to rounded, highly calcareous
5435	5437½	2½	Sandstone, light-gray, broken too fine to describe in detail
5443			TOTAL DEPTH