

2-27-52
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Margaret ^C Krays No. 9462 Well.

Portland District, Preston County, W. Va.,
 By Hope Natural Gas Company, Clarksburg, W. Va.
 Located 0.4 mile S. of 39° 25' and 4.42 miles W. of 79° 30'.
 Kingwood Quadrangle - EC .
 Elevation 2012' L.

Permit - Preston 17.

Drilling commenced October, 1950; Completed January 20, 1951.

Gas Well; open flow 12,500,000 cu. ft.

Rock Pressure 2,200#.

Ran 7" casing at 4942'.

Gas at 5090-5101'; big pay at 5101'.

Section based on samples from 4000 to 5101'; examined by Russell R. Flowers.

Top	Bottom	Thickness	
<u>Devonian Shales, 316, plus, feet.</u>			
4000	4100	100	Shale, dark-gray to grayish-black, some grayish-black to black (carbonaceous)
4100	4136	36	Shale, dark-gray, some dark-gray to grayish-black in the lower part; a very small amount is calcareous and dolomitic
4136	4316	180	Shale, grayish-black to black, carbonaceous, calcareous
<u>Tully Limestone, 19 feet.</u>			
4316	4335	19	Limestone, olive-gray to dark-gray, shaly
<u>Hamilton and Marcellus Shales, 583 feet.</u>			
4335	4425	90	Shale, dark-gray to grayish-black, small amount is calcareous, some grayish-black to black from 4400 to bottom
4425	4450	25	Shale, dark-gray, some grayish-black to black
4450	4554	104	Shale, mostly grayish-black
4554	4667	113	Shale, dark-gray to grayish-black, slightly pyritic (finely disseminated throughout shale)
4667	4692	25	Shale, dark-gray to grayish-black; small amount of olive-gray to medium dark gray, highly dolomitic shale
4692	4738	46	Shale, grayish-black
4738	4829	91	Shale, grayish-black, some grayish-black to black (carbonaceous), a few pieces of shale are slickensided; a very small amount of vein calcite
4829	4846	17	Shale, grayish-black to black, carbonaceous; trace of vein calcite
4846	4872	26	Shale, dark gray, calcareous and dolomitic to a shaly limestone; a very large amount of grayish-black to black, carbonaceous shale; trace of calcite
4872	4918	46	Shale, grayish-black to black (carbonaceous) and black (highly carbonaceous), calcareous with vein calcite, pyritic in part

Huntersville Chert, 169 Feet.

4918	4941	23	Shale, grayish-black to black, carbonaceous, highly calcareous to a dark-gray limestone (very shaly), pyritic in part; a large amount of brownish-gray to dusky yellowish brown metabentonite at the top
4941	4945	4	Shale, dark-gray, highly calcareous, silicified to chert, light- to dark gray, argillaceous in part, somewhat dolomitic
4945	4950	5	Chert, medium dark to dark-gray, calcareous, highly argillaceous to chert , light- to dark gray, argillaceous in part, dolomitic <i>chert</i>
4950	4959	9	Chert- light-gray (translucent, spicular) to medium-gray ("dead") to dark-gray (argillaceous), somewhat calcareous, dolomitic
4959	4974	15	Chert, light- to medium-gray, mostly translucent (spicular to "dead"), some dark-gray argillaceous layers and spots, somewhat dolomitic
4974	4981	7	Chert, mottled white (milky) to light-gray (translucent) and dark-gray (argillaceous) to grayish-black (silicified shale), highly spicular, dolomitic in part, highly fractured (argillaceous and some quartz fillings)
4981	4995	14 14	Chert, mottled light- to medium-gray and dark-gray (highly argillaceous), spicular, slightly dolomitic
4995	5011	16	Chert, medium- to dark-gray, some grayish-black, highly argillaceous, silty to silicified siltstone, is highly dolomitic in part, somewhat glauconitic in the upper part
5011	5053	42	Chert, medium dark gray to grayish-black, (highly argillaceous), some medium-gray at the top, silty in part, slightly dolomitic
5053	5087	34	Shale, dark-gray to grayish-black, silicified in part; some grayish-black to black pyritic shale at the bottom

Oriskany Sandstone, 14⁺ Feet.

5087	5095	8	Sandstone, light-gray, fine-grained, fine- to medium-grained in part; subrounded to rounded, highly calcareous, a little dark (interstitial) material
5095	5099	4	No sample
5099	5101	2	Sandstone, light- to medium-gray, fine- to coarse-grained, rounded, very highly pyritic