

2-27-52
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Margaret C. Kraus No. 9638 Well.

Union District, Preston County, W. Va.

By The Hope Natural Gas Company, Clarksburg, W. Va.

Located 0.7 mile S. of 39° 25' and ~~4.14~~ 4.54 miles W. of 79° 30'.

Kingwood Quadrangle - EC

Elevation 2128' L.

Permit Preston - 22.

Commenced July 1951; completed Oct. 20, 1951.

Gas Well - 8,554,000 cu. ft. Gas at 5020'-5055'

Ran 7" casing to 4988'.

Section based on samples from 4202 to 5047'; examined by Russell R. Flowers.

Top	Bottom	Thickness	
4202	4313	111	Shale, grayish-black, some grayish-black to black (carbonaceous), calcareous, small amount is pyritic
4313			<u>Tully Limestone, 24 Feet.</u>
4313	4337	24	Limestone, medium dark gray to olive-gray and some olive-gray to brownish-black, very shaly to a highly calcareous shale; a large amount of dark-gray to grayish-black, calcareous shale in the lower part
			<u>Hamilton and Marcellus Shales, 618 Feet.</u>
4337	4629	292	Shale, dark-gray to grayish-black, some grayish-black to black, a very small amount of calcite and dolomite at the top, mostly grayish-black at 4455 to 4496 4496 and at 4576 to 4580, dolomitic in part at 4553 to 4570'
4629	4800	171	Shale, grayish-black, some grayish-black to black (carbonaceous), a very small amount is dolomitic
4800	4860	60	Shale, grayish-black to black, carbonaceous
4860	4891	31	Shale, grayish-black to black (carbonaceous) and black (highly carbonaceous), calcareous, pybitic (very finely disseminated)
4891	4926	35	Shale, dark-gray to grayish-black, highly calcareous with some shaly limestone; some grayish-black to black shale, highly calcareous in part
4926	4955	29	Shale, grayish-black to black (carbonaceous) and black (highly carbonaceous), calcareous, highly calcareous in the lower part; some brownish-gray to, dark yellowish brown metabentonite at the bottom
			<u>Huntersville Chert, 100, plus, Feet.</u>
4955	4971	16	Shale, grayish-black to black, carbonaceous, highly calcareous with some dark-gray limestone, pyritic in part
4971	4976	5	Shale, dark-gray to grayish-black, highly calcareous with some limestone, glaucenitic, pyritic in part
4976	4987	11	Shale, dark-gray to grayish-black, highly calcareous to somewhat calcareous chert, medium- to dark-gray, a little light-gray
4987	4994	7	Shale, grayish-black to black (mostly cavings?)

4994	4997	3	- Chert, medium- to dark-gray, argillaceous in part to a grayish-black shale, silicified, calcareous, somewhat dolomitic, highly dolomitic in the lower part
4997	5005	8	Chert, light- to dark-gray (argillaceous), calcareous and dolomitic, highly dolomitic in part, some of the chert is spicular
5005	5015	10	Chert, light- to medium-gray (transparent to translucent, spicular), medium- to dark-gray (silty, "dead"), somewhat calcareous, slightly to moderately dolomitic; some grayish-black, argillaceous chert to shale
5015	5026	11	Chert, very light to medium-gray, some dark-gray to grayish-black (argillaceous), spicular, slightly dolomitic
5026	5038	12	Chert, white to light-gray (translucent), some light- to medium-gray (translucent to opaque), some dark-gray to grayish-black (argillaceous), somewhat spicular, slightly dolomitic; most of the chert is very fine to coarse, subangular to angular sand grains
5038	5047	9	Chert, mottled light- to medium-gray and dark-gray to grayish-black (argillaceous), angular to subangular sand, very fine to medium and some coarse sand grains
	5055		TOTAL DEPTH