

2-27-52  
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Margaret C. Kraus No. 9636 Well.

Portland District, Preston County, West Virginia.  
By Hope Natural Gas Company, Clarksburg, W. Va.  
Located 0.6 mile S. of 39° 25' and 4.4 miles W. of 79° 30'.  
Kingwood Quadrangle - EC..  
Elevation 2195' L.  
Permit - Preston 20.

Drilling commenced March 1951; completed June, 1951.  
Volume 1,961,000 cu. ft. gas after shot.  
Rock pressure 2250# in 44 hours.  
Gas at ~~5250~~ 5250-5286'.  
Section based on samples from 4224 to 5372 feet; examined by Russell R. Flowers.

Top	Bottom	Thickness	
4224	4255	31	Shale, dark-gray to grayish-black, some grayish-black to black at the bottom; silty
4255	4382	<del>127</del> <sup>2</sup> 137	Shale, grayish-black to black; calcareous
<u>Tully Limestone, 15 Feet.</u>			
4382	4397	15	Limestone, olive-gray to dark-gray, highly argillaceous to a highly calcareous shale at the bottom
<del>4397</del> <u>Hamilton and Marcellus Shales, 673 Feet.</u>			
4397	4433	36	Shale, grayish-black to black; calcareous in part
4433	4516	83	Shale, dark-gray to grayish-black; small amount is pyritic; slightly calcareous
4516	4591	75	Shale, grayish-black, silty in part; trace of calcite
4591	4691	100	Shale, dark-gray to grayish-black; some dark-gray, highly dolomitic shale at 4635 to 4697 feet
4691	4747	56	Shale, grayish-black, highly slickensided; a very small amount is highly calcareous
4747	4928	181	Shale, grayish-black and grayish-black to black; (carbonaceous), small amount is pyritic in part; small amount is highly calcareous
4928	5002	74	Shale, grayish-black to black, carbonaceous; small amount is pyritic; occasional calcareous streak
5002	5018	16	Shale, dark-gray, highly calcareous with some very shaly limestone; some grayish-black to black shale
5018	5070	52	Shale, grayish-black to black, highly carbonaceous, highly calcareous in the lower part; small amount is pyritic
<u>Huntersville Chert, 178 Feet.</u>			
5070	5104	34	Shale, dark-gray to black, highly calcareous to a very shaly limestone, pyritic in part; trace of chert at the bottom; a moderate amount of brownish-gray to dusky yellowish brown metabentonite at the top

5104	5110	6	Shale, grayish-black, highly silicified with some dark-gray chert at the top to a dark-gray and grayish-black, argillaceous chert at the bottom, somewhat calcareous; some medium- to dark-gray, spicular chert
5110	5125	15	Chert, light- to dark-gray (translucent to "dead" - small amount is spicular), some grayish-black (highly argillaceous - mostly in the upper part), calcareous, somewhat dolomitic
5125	5150	25	Chert, very light to light-gray (translucent to ordinary, highly spicular), some medium- to dark-gray (argillaceous with a little grayish-black silicified shale), slightly calcareous, somewhat dolomitic
5150	5155	5	Chert, mottled light- to medium-gray and dark-gray to grayish-black (highly argillaceous), spicular, slightly calcareous and slightly dolomitic, silty and glauconitic in part
5155	5162	7	Chert, light- to medium-gray (with dark-gray to grayish-black, silty, cherty shale), somewhat dolomitic; somewhat spicular
5162	5184	22	Chert, medium- to dark-gray (argillaceous), a moderate to large amount of grayish-black (very silty, cherty shale), highly dolomitic
5184	5188	4	Shale, dark-gray to grayish-black, silicified, very silty; chert, dark-gray; trace of dolomite
5188	5195	7	Chert, medium- to dark-gray with a moderate amount of grayish-black (silicified, silty shale), slightly dolomitic
5195	5209	14	Chert, medium dark to dark-gray, somewhat argillaceous to a grayish-black, highly silicified shale; contains a few scattered dolomite rhombs
5209	5222	13	Chert to silicified shale, dark-gray to grayish-black; trace of vein dolomite
5222	5235	13	Shale, grayish-black, silicified; some dark-gray chert in the upper part; trace of vein dolomite
5235	5248	13	Shale, grayish-black to black (carbonaceous), pyritic in the lower part, calcareous, dolomitic, and cherty at the bottom
— <u>Oriskany Sandstone, 7 ? Feet.</u>			
5248	5250	2	Sandstone, light- to medium-gray, fine- to medium-grained, rounded, some coarse (well rounded, quartz) grains, calcareous, contains a little dark (shaly) interstitial material
5250	5254	4	Sandstone, light-gray, very fine to medium-grained, subrounded to rounded, calcareous, a little interstitial (milky) chert
5254	5255	1	Sandstone, light-gray, very fine to medium-grained, subrounded, calcareous
5255	5259	4	<i>HELDERBERG FORMATION 117+ ? FEET</i> Siltstone, light- to dark-gray, some grayish-black (argillaceous), highly calcareous, pyritic in part; the entire sample consists of rounded pebble aggregates

5259	5260	1	Shale, grayish-black to black; siltstone, medium dark gray to grayish-black, highly calcareous; most of the cuttings in this interval are rounded
5260	5262	2	Sandstone, light- to medium-gray, very fine to medium-grained, somewhat argillaceous in part, calcareous; trace of vein calcite
5262	5266	4	Sandstone, light-gray, mostly fine-grained, some medium (rounded) grains, calcareous
5266	5268	2	Sandstone, light- to dark-gray, highly calcareous, very shaly to a grayish-black and black shale, pyritic in part
5268	5273	5	Sandstone, very light gray, very fine to medium-grained, subrounded to rounded, calcareous
5273	5279	6	Sandstone, light-gray, some medium-gray (somewhat argillaceous), mostly fine-grained, some medium- to coarse grains, highly calcareous to a very sandy limestone
5279	5288	9	Sandstone (very highly calcareous) to limestone (very sandy), medium- to dark-gray, very fine to medium-grained, some coarse grains, somewhat shaly; a very small amount of chert
5288	5293	5	Sandstone, light- to medium-gray, some dark-gray (argillaceous), mostly fine- to medium-grained, a very highly calcareous
5293	5297	4	Sandstone (very highly calcareous) to a sandy limestone, medium- to dark-gray, very fine to medium-grained, rounded, some coarse grains, contains some dark (shaly) material
5297	5307	10	Siltstone to fine sandstone, dark-gray to grayish-black with some light- to medium-gray (fine to medium-grained sandstone) spots; very highly calcareous, somewhat shaly
5307	5313	6	Sandstone, medium to medium dark gray (with grayish-black, very shaly streaks), fine- to coarse-grained, rounded, very silty in part, very highly calcareous to a very sandy limestone; trace of chert
5313	5332	19	Sandstone, medium-gray, very highly calcareous, with some light-gray limestone, very fine to fine-grained, silty, some medium to coarse grains, some grayish-black (very shaly) streaks
5332	5336	4	Sandstone, medium-gray, very highly calcareous to a very sandy limestone, very fine to fine-grained, subrounded
5336	5350	14	Sandstone, light- to medium-gray, mostly fine-grained, rounded to well rounded, calcareous, dark coating on sand grains (interstitial material?)
5350	5372	22	Siltstone, medium- to dark-gray, mostly medium-gray at the bottom, very highly calcareous, slightly cherty
	5377		TOTAL DEPTH