

2-14-52
C

Archie Haight No. 1 Well.

Union District, Preston County, W. Va.

By Orville Eberly and William Snee to Cumberland & Allegheny Gas Company.

Located 0.7 mile ~~S. by~~ ^{N. by} 39° 25' and 0.54 mile W. of 79° 35'.

Kingwood Quadrangle - C.

Elevation 1953.70' L.

Permit - Preston 23.

Commenced drilling August 25, 1951; completed December 8, 1951.

Gas well; volume 6,472,000 cu. ft.

Section based on samples from 4273 to 4985'; examined by Russell R. Flowers.

Top	Bottom	Thickness	
4273	4306	33	Shale, dark gray, some grayish-black, pyritic in part
<u>Harrell Shale, 133 Feet.</u>			
4306	4328	22	Shale, grayish-black, some grayish-black to black (carbonaceous); trace of limestone
4328	4431	103	Shale, grayish-black to black, carbonaceous, a little vein calcite and a moderate amount of vein pyrite at the bottom
4431	4425	- 6	Depth correction?
4425	4435	10	Shale, grayish-black, very highly calcareous, pyritic in part
4435	4437	2	No sample
4437	4439	2	Shale, grayish-black to black, carbonaceous
<u>Tulley Limestone, 26 Feet.</u>			
4439	4465	26	Limestone, olive-gray to medium dark gray, shaly with some medium dark gray calcareous shale, pyritic in part; a large amount of grayish-black to black shale (cavings?)
<u>Hamilton and Marcellus Shales, 460 Feet.</u>			
4465	4503	38	Shale, grayish-black, some grayish-black to black
4503	4631	128	Shale, dark-gray to grayish-black, some grayish-black to black, somewhat darker in the lower part; trace of ^{vein} calcite
4631	4681	50	Shale, dark-gray, some grayish-black, dolomitic in part in the lower part; some grayish-black to black shale at the bottom
4681	4814	133	Shale, dark-gray to black, somewhat carbonaceous; some vein calcite and pyrite from 4716 to 4780 and a ^{very} small amount at the bottom
4814	4866	52	Shale, grayish-black to black, carbonaceous, pyritic with a little vein pyrite and vein calcite
4866	4884	18	Shale, medium dark gray (with olive-gray cast), highly calcareous; some vein pyrite and calcite
4884	4925	41	Shale, grayish-black to black (carbonaceous), and black (highly carbonaceous), pyritic, calcareous; some brownish-gray to brownish-black, pyritic meta-bentonite at the bottom

Huntersville Chert, 60, plus, Feet.

4925	4920	-5	Depth correction?
4920	4925	5	Shale, grayish-black to black, carbonaceous, highly calcareous with some shaly limestone, slightly pyritic; a few fine to medium, rounded, quartz grains
4925	4935	10	No sample.
4935	4943	8	Shale/ to argillaceous chert, dark-gray to grayish-black, highly calcareous in part, dolomitic; a moderate to large amount of light- to medium-gray, somewhat dolomitic chert (mostly lenses and streaks in shale)
4943	4949	6	Chert, mottled white to light-gray (spicular in part) and medium- to dark-gray (argillaceous), somewhat calcareous, dolomitic in part
4949	4963	14	Chert, very light to medium-gray, some dark-gray (argillaceous), silty in part, highly spicular, slightly calcareous, somewhat dolomitic
4963	4970	7	Chert, mottled white to medium light gray (translucent to transparent) and dark-gray to grayish-black (argillaceous), highly spicular, fractured (with quartz and shale fillings), slightly dolomitic
4970	4985	15	Chert, mottled white to light-gray (translucent to opaque) and dark-gray to greenish-black, spicular, slightly dolomitic, highly fractured (with quartz fillings); some clear vein quartz
4986			TOTAL DEPTH