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A. H. Boyd et al No. 5857 Well.

Malden District, Kanawha County, W. Va.

By United Fuel Gas Company, Charleston, W. Va.

Located 4.25 Mi. S. of 38° 25' and 4.12 Mi. W. of 81° 25'

Clendenin Quadrangle - W C

Elevation, 1059.70' L

Permit Kan. - 1340

Completed January 15, 1949

Section based on samples from 5182 to 5208 feet

Examined by Russell R. Flowers, Mineralogist.

Top Bottom Thickness

ORISKANY SANDSTONE, 26 Feet

5182	5184	2	Sandstone, white to very light gray, fine- to coarse-grained; some very coarse grains, rounded to well rounded, very highly calcareous (Oriskany 5182 - 5208 from driller's log)
5184	5187	3	Sandstone, very light gray, medium- to coarse-grained, some fine and some very coarse grains, rounded to well rounded (mostly clear and glassy quartz, some of the grains are frosted), highly calcareous
5187	5196	9	Sandstone, very light gray, fine- to medium grained, rounded, some coarse well rounded grains, highly calcareous, very highly calcareous at the top
5196	5201	5	Sandstone (highly calcareous) to limestone, very light to medium light gray, some medium-gray, most of the sand is fine- to medium-grained, rounded quartz
5201	5208	7	Sandstone, very light gray, fine- to medium-grained, mostly fine to very fine grained in the lower part, some coarse grains, calcareous, highly calcareous in the upper part

HELDERBERG FORMATION, 197 Feet.

5208	5216	8	Shale to sandstone (very fine), medium- to dark-gray, silty, calcareous
5216	5223	7	Sandstone, light- to medium-gray (shaly), some dark-gray (very shaly), very fine grained, silty, highly calcareous, contains a little glauconite
5223	5226	3	Sandstone, light- to dark-gray (shaly), very fine to fine-grained, very highly calcareous; some calcite, slightly glauconitic; contains some medium, rounded quartz grains
5226	5230	4	Sandstone, light- to medium-gray (somewhat shaly), very fine to fine-grained, some medium grains (rounded), very highly calcareous
5230	5237	7	Sandstone, very light to light-gray, very fine to fine-grained, subrounded, some medium grains (rounded), highly calcareous
5237	5241	4	Limestone (sandy and silty) to sandstone (very fine), silty, calcareous), light- to medium-gray, cherty
5241	5244	3	Chert to a very shaly and silty limestone, very light to dark-gray; some fossil fragments
5244	5248	4	Sandstone (very fine, silty) to chert, light- to medium-gray, some dark-gray (shaly) and some very light gray (chert), very highly calcareous, dolomitic
5248	5261	13	Chert, very light to light-gray, some medium-gray, highly calcareous, silty; some dark-gray, calcareous shale at the bottom
5261	5265	4	Chert to silicified shale, light- to dark-gray, highly calcareous, dolomitic in part
5265	5271	6	No sample
5271	5285	14	Shale to shale (silicified) and chert, dark-gray, some grayish-black with light- to medium-gray spots, highly calcareous, somewhat dolomitic
5285	5297	12	No sample
5297	5299	2	Shale, dark-gray to grayish-black with some light- to medium-gray spots of limestone, highly calcareous, dolomitic
5299	5305	6	Limestone, medium- to dark-gray with light-gray spots, very silty and cherty, shaly, somewhat dolomitic; contains a little glauconite

5305	5315	10	Limestone (shaly) to siltstone, medium- to dark-gray, some light-gray, glauconitic, cherty in the lower part, dolomitic
5315	5320	5	Limestone to chert (calcareous), light- to medium-gray, some dark-gray (shaly), very silty, contains a little glauconite
5320	5325	5	Shale (calcareous, silicified) to chert (calcareous), medium- to dark-gray, some light-gray, somewhat dolomitic, (probably a depth correction from 5325 to 5315)
5315	5322	7	Chert, light- to medium-gray with some dark-gray, shaly streaks, very silty, highly calcareous, very highly calcareous and sandy (very fine) in the lower part, dolomitic, contains some glauconite
5322	5327	5	Limestone (sandy) and some sandstone (very fine), medium- to dark-gray with light-gray spots, cherty, somewhat shaly, glauconitic, some fossil fragments, dolomitic
5327	5335	8	Chert (sandy) to sandstone (very fine), very light to light-gray, highly calcareous, glauconitic
5335	5342	7	Limestone (very sandy) and some sandstone (very fine, calcareous), very light to medium-gray, glauconitic, very cherty
5342	5350	8	Sandstone, light- to medium-gray, very fine grained, cherty; highly calcareous, contains a little glauconite and some shaly material
5350	5356	6	Limestone, medium dark to dark-gray, some light- to medium-gray, very cherty, and shaly, silty, somewhat dolomitic
5356	5360	4	Chert, light- to medium-gray, some darkgray, calcareous, very silty and sandy (very fine)
5360	5367	7	Siltstone to sandstone (very fine), light- to medium-gray, (very highly stained with iron rust), calcareous, cherty, contains some shale
5367	5370	3	Limestone (silty and shaly) to siltstone and chert (calcareous), medium- to dark-gray, some light-gray, somewhat dolomitic, trace of glauconite

5370 5405 35 Limestone, medium dark to dark-gray, with light- to medium-gray spots, very shaly to a calcareous shale and pyritic at the top, sandy (very fine), pyritic in the lower part, dolomitic at the top and bottom

SALINA FORMATION 29, plus, feet.

5405 5414 9 Limestone, brownish-black to grayish-black, some brownish-gray, shaly, somewhat dolomitic, silty and sandy, a little chert, contains many very fine quartz crystals

5414 5420 6 Limestone, brownish-gray with light-gray spots, some brownish-black, silty and sandy (very fine), contains many very fine quartz crystals, slightly shaly, dolomitic in part, oolitic in part

5420 5425 5 Limestone, brownish-gray to brownish-black, very fine textured, dolomitic, very silty and sandy (very fine - much of which is quartz crystals), some brown and black, shaly material

5425 5439 9 Dolomite, medium light gray to light brownish gray, somewhat calcareous, sandy and silty