

8/20/49

FRANKLIN REAL ESTATE CO. No. 1 (GW 796).

Nuttall District, Fayette County, W. Va.

By Columbian Carbon Company

Located 3.6 mi. S. of 38005' and 3.75 mi. W. of 80° 55' SW -  
Winona Quadrangle

Elevation 2344 ~~ft~~ (D. F.)

Permit - Fay. 42

Drilling commenced May 1, 1945; completed November 8, 1947

Not shot

Dry hole

Fresh water 105' 2 - 14" blrs.; 133' hole full

Salt water 1990' Hole full; 7224-7227' 1/2 - 6" blr-hr; 7216' 1 blr - 2 hrs.

16" casing, 26' 8"; 13-3/8" 48#; 514' 11" (Pulled); 10-3/4" 40#; 1588' 10"

(Pulled); 8-1/4" 24#, 2151' 11" (Pulled); 7" 23#, 7164.1"

Coal at 23" 12" (drillers record)

Section based on samples from 7092' to 7403',

Examined by Russell R. Flowers.

Top	Bottom	Thickness	
7092	7131	39	<p style="text-align: center;"><i>MARCELLUS SHALE, 45+ FEET</i></p> <p>Shale, black to grayish-black, very highly carbonaceous, calcareous, highly calcareous and moderately dolomitic at 7104 to 7109', moderately dolomitic at the bottom, slightly pyritic</p>
7131	7137	6	<p>Shale, black to grayish-black (with medium- to dark-gray spots, very highly calcareous to calcite), highly carbonaceous, a few of the pieces of shale show slickensides, very highly pyritic; some brownish-gray to brownish-black, highly pyritic shale, containing a large amount of altered biotite</p>
7137	7141	4	<p style="text-align: center;"><i>Huntersville <sup>ert</sup> Chert, 79 Feet</i></p> <p>Shale, (highly calcareous) to limestone (very shaly), brownish-black to dark brownish gray (with some medium gray spots), pyritic in part; some medium-gray to brownish-gray, highly pyritic shale containing a large amount of altered biotite; large amount of grayish-black to black,</p> <p style="text-align: center;">(continued)</p>

7137  
2344  
4793

			✓ highly carbonaceous, calcareous shale (7140 DLM = 7115 SLM, top of Corniferous Lime - from drillers log)
7116	7121	5	Limestone, brownish-gray to brownish-black, some medium-gray spots, very shaly to a highly carbonaceous shale (brownish- and grayish-black to black); small amount of white to light-gray chert; a small amount of finely disseminated pyrite is scattered throughout the interval
7121	7125	4	No sample
7125	7134	9	Shale (highly calcareous) to limestone (shaly), brownish-gray to brownish-black with light- to medium-gray spots; shale, grayish-black to black, carbonaceous, silicified in part to a white to a very light gray chert, pyritic in part
7134	7137	3	Shale, brownish- and grayish-black to black, somewhat calcareous and dolomitic, silicified in part to cherty
7137	7138	1	No sample
7138	7147	9	✓ Chert, light- to medium-gray, some brownish-gray, some dark-gray to black, (very shaly) somewhat calcareous, moderately dolomitic; small amount is highly glauconitic (probably a parting or thin layer)
7147	7158(?)		Chert, very light to medium-gray, somewhat calcareous, moderately dolomitic, slightly glauconitic; some medium- to dark-gray, calcareous, shaly chert
7150	7154	4	Chert, very light to medium-gray, some light olive gray, some dark-gray to grayish-black (shaly), somewhat calcareous and dolomitic; trace of glauconite

7154	7170	16	Chert, mottled light- to medium-gray and dark-gray to grayish-black (shaly), moderately dolomitic (included rhombs), silty, moderately to highly glauconitic, an increase in the amount of dark-gray to grayish-black at the bottom; a large amount of dark-gray to grayish-black shale at the top
7170	7175	5	Chert, light- to dark-gray, some grayish-black, moderately dolomitic at the top, slightly pyritic and glauconitic
7175	7196	21	Siltstone, medium- to dark-gray, some light-gray, some grayish-black to black (shaly), cherty, slightly to moderately dolomitic, highly glauconitic, very shaly and very highly glauconitic in the lower part; considerable dark-gray to grayish-black shale at the bottom (highly glauconitic)
7196	7210	14	Chert (medium light to dark-gray) to a silicified shale (grayish-black to black, carbonaceous), dolomitic in part, somewhat calcareous at the bottom, some glauconite, highly glauconitic at 7203-7207'
7210	7216	6	Chert, medium light to dark-gray, some grayish-black to black (very shaly) at the top, somewhat dolomitic, moderately calcareous at the top to highly calcareous at the bottom; very small amount of glauconite
<u>Oriskany Sandstone, 11 Feet</u>			
7216	7218	2	Chert, medium light to dark-gray, some grayish-black to black (carbonaceous, shaly), highly calcareous, the highly calcareous and shaly parts contain some fine to medium sand grains; a very large amount of sandstone, white to very light gray, fine- to medium-grained (Oriskany at 7216-7239 - drillers log)

7218	7222	4	Sandstone, white to very light gray, quartzose, fine- (glassy, clear) to medium- (rounded and frosted), subrounded to rounded, slightly to moderately calcareous
7222	7224	2	Sandstone, white to light-gray, fine-grained, some medium and some very fine grains, quartzose, subrounded, some of the medium grains are rounded and frosted, moderately calcareous; some calcareous chert to siliceous shale, medium-gray to grayish-black (cavings)
7224	7227	3	Sandstone, very light gray, fine-grained, some very fine grains, calcareous; a very large amount of siltstone and sandstone (very fine, highly calcareous) to limestone (silty, sandy and shaly), medium- to dark-gray
<u>Helderberg Formation, 116, plus, Feet</u>			
7227	7239	12	Siltstone and sandstone (very fine) very highly calcareous and some limestone (sandy and silty), medium- to dark-gray (with light-gray spots), cherty, somewhat shaly, a few fossil fragments
7239	7244	5	Limestone (sandy and silty) to a fine sandstone and siltstone (highly calcareous), medium- to dark-gray, some grayish-black (very shaly), contains many fossil fragments, cherty
7244	7252	8	Limestone (very silty) to siltstone (very highly calcareous), dark-gray to grayish-black (very shaly), a moderate amount of medium-gray, very cherty, contains some fossil fragments
7252	7268	16	Sandstone, white to light-gray, some medium light to medium-gray, fine- to medium-grained, subrounded to rounded, highly calcareous, contains some carbonaceous, shaly material and some chert; a very highly calcareous sandstone to a limestone (sandy and silty), medium- to dark-gray, shaly cherty, some fossil fragments at the bottom and some at the top

7267	7268	1	No sample
7268	7276	8	Limestone, dark-gray to grayish-black, some medium-gray, silty, sandy, and shaly at the top to very silty, very shaly, <sup>and</sup> very sandy at the bottom, cherty, some fossil fragments; a moderate amount of light- to medium-gray, highly calcareous sandstone at the bottom
7276	7280	4	Sandstone, light- to medium-gray (with dark-gray to greenish black, very shaly streaks), fine-grained, some medium grains, very highly calcareous
7280	7281	1	Sample too highly stained with iron rust for description
7281	7285	4	Sandstone, light- to medium-gray, fine-grained, some medium and some very fine grains, highly calcareous with some limestone (very sandy), somewhat shaly
7285	7288	3	No sample
7288	7294	6	Sandstone, light- to medium-gray, fine-grained, sub-rounded, some rounded medium grains, highly calcareous to a very sandy limestone
7294	7297	3	Limestone (very sandy) to sandstone (fine-grained highly calcareous), medium- to dark-gray, some light-gray, some grayish-black, very shaly, somewhat cherty
7297	7306	9	Sandstone, very light to light-gray, fine to very fine grained, mostly fine-grained at the top, highly calcareous; trace of carbonaceous material
7306	7308	2	Limestone (very sandy and silty) to chert (very shaly, highly calcareous), mottled light- to medium-gray and dark-gray to grayish-black
7308	7311	3	Limestone, mottled dark-gray to grayish-black (very shaly) and light- to medium-gray, very sandy, very silty, cherty, some fossil fragments
7311	7316	5	Limestone (very sandy) to a sandstone (very fine, silty, highly calcareous), medium to dark-gray, some light-gray and some grayish-black, shaly, very cherty

7316	7321	5	No sample
7321	7325	4	Sandstone, light- to medium-gray, fine to very fine grained, very highly calcareous
7325	7334	9	Limestone (very sandy and silty) to sandstone (very fine, silty, highly calcareous), light to medium dark gray, some dark-gray (shale and shaly limestone), cherty, fossil fragments at the bottom
7334	7353	19	No samples
7353	7366	13	Limestone, medium- to dark-gray, some grayish-black (shaly to shale at the middle), very sandy (fine) to sandstone (fine to medium-grained, highly calcareous at the bottom), cherty, moderately dolomitic
7366	7376	10	Sandstone, light-gray with a few streaks of medium-gray, fine to very fine grained, highly calcareous, dolomitic; contains a few fossil fragments and a trace of glauconite
7376	7379	3	Sandstone (very fine to fine, highly calcareous) to √ limestone (very sandy), medium- to dark-gray, some grayish-black (shaly), some light-gray, somewhat dolomitic, cherty, contains some fossil fragments
7379	7382	3	Limestone, medium-gray to grayish-black, very sandy (very fine to medium grains), moderately dolomitic, very highly fossiliferous, somewhat shaly and cherty
7382	7403	21	Chert to silicified shale, dark-gray to grayish-black, some medium-gray, highly calcareous and some limestone, very silty; some medium- to dark-gray, sandy, highly fossiliferous, limestone in the upper part
7406			TOTAL DEPTH