

24 Plotted
C. W. COOK NO. 1 WELL.

F 3973

Tygart District, Wood County, W. Va.
By Glen W. Roberts, Elizabeth, W. Va.; deepened from Oriskany by
United Carbon Co. et al., Charleston, W. Va.
Located 5.16 mi. S. of 39° 15' and 3.63 mil. W. of 81° 30' - NE-Belle-
ville Quadrangle.
Elevation, 605' L.
Permit Woo-99.
Drilling deeper completed May 9, 1941.
Samples from 4720 to 6245', examined by J. H. C. Martens.
Such stratigraphic information as is given for depths above 4720' is
from the driller's record.

<u>Top</u>	<u>Bottom</u>	<u>Thickness</u>	
2000	2010	10	Shale, brown (Sunbury Shale?)
2010	2020	10	Sand (Berea Sandstone?)
2020	4475	2455	Devonian Shales
4475	4583	108	Huntersville Chert
4583	4625	42	Oriskany Sandstone
<u>Helderberg Group, 181 feet</u>			
4625	4720	95	Reported as "lime"
4720	4740	20	Limestone, gray to brown, cherty, silty, and fossiliferous
4740	4755	15	Limestone, brown and gray, finely crystalline fossiliferous
4755	4766	11	Sample out of place
4766	4806	40	Limestone, brown, slightly cherty, highly fossiliferous
<u>Salina Formation, 707 feet</u>			
4806	4817	11	Limestone, very light brown or grayish-yellow very fine textured, highly dolomitic
4817	4831	14	Limestone, gray and light-brown, somewhat dolomitic; a little chert
4831	4840	9	Limestone, brownish-gray, dolomitic, slightly cherty; similar to interval above
4840	4878	38	Dolomite-anhydrite rock; dark-brown, very fine textured dolomite with about 20 to 30% of white to light-brown anhydrite
4878	4911	33	Dolomite, brown; about 10 to 20% of anhydrite
4911	4925	14	Dolomite-anhydrite rock, brown; small amount of chert
4925	4959	34	Dolomite, brown, with about 10% of anhydrite
4959	5025	66	Dolomite-anhydrite rock, brown; mostly contains about 30 to 40% of anhydrite; perhaps less anhydrite in some

Top Bottom Thickness

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Salina Formation, 707 feet (Cont'd)

5025	5048	23	Dolomite, light-brown, with about 10% of anhydrite
5048	5121	73	Dolomite, brown, with varying amounts of anhydrite; mostly very fine textured; some small gaps in samples
5121	5177	56	Dolomite, light-brown, with about 5 to 10% of anhydrite
5177	5210	33	Dolomite, light-brown
5210	5251	41	Dolomite, light-brown, with about 10% of anhydrite
5251	5258	7	No sample
5258	5278	20	Dolomite-anhydrite rock, white and lightbrown; about half anhydrite
5278	5291	13	Dolomite-anhydrite rock, light-brown, 90%; chert, 10%
5291	5314	23	Dolomite-anhydrite rock, light-brown
5314	5328	14	No sample
5328	5350	22	Dolomite, brown, very fine textured, with small amount of anhydrite
5350	5385	35	Dolomite, dark-brown, very fine textured, partly shaly
5385	5402	17	Dolomite, brown, very fine textured; a few fragments contain small rounded sand grains
5402	5419	17	Shale, grayish-green, dolomitic, 40%; brown dolomite, 50%; white anhydrite, 10%
5419	5431	12	Shale, grayish-green, dolomitic, 50%; brown dolomite, 50%
5431	5447	16	No sample
5447	5455	8	Dolomite, light-brown, 60%; grayish-green dolomitic shale, 30%; white and brown anhydrite, 10%
5455	5467	12	Dolomite-anhydrite rock, brown to gray; about 50% anhydrite
5467	5513	46	Dolomite, brown, very fine textured, with small amount of anhydrite

Lockport Dolomite, 202 feet

5513	5559	46	Dolomite, brown and white, finely crystalline; contains small amount of fine sand and a few colorless fragments consist of very small spheres of brown dolomite in matrix of white dolomite
5559	5564	5	No sample

Lebanon Horizon?

Top Bottom Thickness

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Lockport Dolomite, 202 feet (Cont'd)

5564	5629	65	Dolomite, brown to very light brown, finely crystalline; there is a little more coarsely crystalline white dolomite, apparently filling cavities
5629	5680	51	Limestone, dark-brown, mostly very fine textured, partly oolitic; contains some finely crystalline dolomite throughout
5680	5683	3	No sample
5683	5688	5	Dolomite, brown
5688	5700	12	Limestone, brown, oolitic; the internal structure of most of the supposed oolites is not clearly shown, either in this interval or from 5629-5680' so they could be microfossils
5700	5705	5	Limestone, brown, finely crystalline, somewhat dolomitic
5705	5715	10	Limestone, brown and white, finely crystalline

Clinton Formation, 372 feet

Keefer

5715	5732	17	Sandstone, nearly white, very fine, slightly dolomitic
5732	5742	10	Dolomite, light-gray, very sandy, apparently grades into the sandstone above
5742	5747	5	Siltstone, light-gray, dolomitic
5747	5752	5	Dolomite, light-gray, sandy, pyritic
5752	5760	8	Shale, gray
5760	5950	190	Shale, grayish-red; small amounts of green shale in several samples
5950	5961	11	Shale, green
5961	5972	11	Shale, green, with a little gray dolomite; a few grains of glauconite in both shale and dolomite
5972	5980	8	No sample
5980	6009	29	Shale, red; a little crystalline dolomite and green shale
6009	6028	19	No sample
6028	6037	9	Shale, red, 50%; light-green, dolomitic siltstone, 50%
6037	6055	18	No sample
6055	6060	5	Shale, grayish-red, 60%; light-gray crystalline dolomite, 30%; green shale and siltstone, 10%

<u>Top</u>	<u>Bottom</u>	<u>Thickness</u>	
<u>Clinton Formation, 372 feet (Cont'd)</u>			
6060	6067	7	Hematite, red, oolitic, 10%; also large amounts of red and green shale and some nearly white dolomite
6067	6087	20	Shale, green
<u>Albion Sandstone, 139 feet</u>			
6087	6125	38	Sandstone, light-gray to white, very fine; samples contain large amounts of red and green shale which are probably cavings and some gray shale which probably belongs here; some flat black fragments in sandstone near top
6125	6164	39	Sandstone, white, fine; large amounts of red and green shale cavings
6164	6171	7	Shale, gray, sandy, 60%; nearly white, fine quartzitic sandstone, 40%
6171	6220	49	Shale, gray to grayish-green, mostly silty and sandy; also considerable amounts of light-gray to white siltstone and very fine sandstone
6220	6226	6	Sandstone, white, very fine, quartzitic; also large amounts of shale in samples, 6220-6225'
<u>Queenston Shale, 44 + feet</u>			
6226	6245	19	Siltstone, red, shaly and sandy; some very fine red sandstone at top of interval and some red shale at bottom
	6270		Total depth