

(C)

Cora E. Lewis No. 2 Well

Portland District, Preston County, W. Va.
By Wm. E. Snee and Orville Eberly, West Elizabeth, Pa. and Uniontown, Pa.
Located 4.98 Mi. S. of 39° 30' and 3.7 Mi. W. of 79° 30'.
Kingwood Quadrangle, NE.
Elevation 1953.3' L.
Permit Preston No. 14.
Drilling commenced Sept. 1949; completed April 8, 1950.
Shot in chert and plugged.
Section based on samples from 4545' to 5703'; examined by Russell R. Flowers.

Top	Bottom	Thickness	
4545	4563	18	Shale, grayish-black to black (carbonaceous), slightly calcareous
<u>Tully Limestone, 15 feet</u>			
4563	4578	15	Limestone, medium dark to dark-gray, some olive-gray to brownish-black, very fine textured, very silty (extremely fine silt); a very large amount of grayish-black to black shale (probably mostly cavings) (Thickness of this member from drillers log)
<u>Hamilton and Marcellus Shales, 721 Feet</u>			
4578	4783	205	Shale, dark-gray to grayish-black, grayish-black to black (highly carbonaceous), some medium dark gray near the top; traces of pyrite and calcite
4783	4796	13	Shale, medium dark gray to dark-gray to grayish-black
4796	4804	8	Shale, dark-gray to grayish-black, some black; small amount of dark-gray limestone to calcareous shale
4804	4817	13	Shale, medium dark gray, somewhat calcareous, and sideritic; some olive-gray to dark-gray sideritic limestone; some grayish-black to black shale
4817	4826	9	Shale, medium dark gray to grayish-black; small amount of dark-gray to olive-gray, shaly, sideritic limestone
4826	4836	10	Shale, dark-gray to grayish-black, some medium dark gray, some black
4836	4883	47	Shale, dark-gray to grayish-black
4883	4938	55	Shale, dark-gray to grayish-black; small amount of vein calcite, pyrite and nodules of pyritic limestone (very shaly); some grayish-black to black shale at the bottom
4938	5005	67	Shale, grayish-black to black (highly carbonaceous), pyritic; some vein calcite in many of the samples; a few scattered pieces of grayish-black, very shaly limestone nodules; some of the shale in many samples show slickensides; highly pyritic 4945-4951; trace of sphalerite 4989-96
5005	5018	13	Shale, grayish-black to black, some dark-gray, somewhat pyritic; small amount of medium dark gray, shaly limestone at the bottom

5018	5080	62	Shale, dark-gray to grayish-black, somewhat pyritic
5080	5141	61	Shale, grayish-black to black (carbonaceous), some dark-gray, somewhat pyritic; small amount of white to light-gray vein calcite
5141	5146	5	Limestone (shaly) to shale (calcareous), medium dark gray to olive-gray; shale, grayish-black to black (carbonaceous); small amount of pyrite
5146	5150	4	Shale, medium dark gray to olive-gray, highly calcareous; some dark-gray to black shale
5150	5220	70	Shale, medium dark gray to olive-gray, highly calcareous to shaly limestone (in part); shale, dark-gray to grayish-black
5220	5227	7	Shale, grayish-black to black (carbonaceous); some medium dark gray to olive-gray, calcareous shale; contains many pieces of pyrite and some white vein calcite
5227	5250	23	Shale, medium dark gray to olive-gray, highly calcareous to a shaly limestone (in part); some dark-gray to black (carbonaceous) shale (a large amount at the bottom); small amount of light-gray, vein calcite
5250 5255	5285	35	Shale, grayish-black to black (highly carbonaceous) pyritic; some white to light-gray, vein calcite
5285	5291	6	Shale, grayish-black to black, some of the shale is speckled with tiny red particles; some is reddish-black (overheating when drying?), highly calcareous in part
5291	5299	8	Siltstone, dark- to dusky yellowish brown, very shaly, highly micaceous; a large amount of grayish-black to black shale, highly calcareous in part, pyritic; some white vein calcite
<u>Huntersville Chert, 69 Feet</u>			
5299	5306	7	Shale, black, highly calcareous to a grayish-black, very shaly limestone; some dark- to dusky yellowish brown, shaly silt
5306	5310	4	Limestone, very shaly, dark-gray to shale (calcareous), grayish-black
5310	5315	5	Shale, dark-gray to grayish-black, calcareous to a shaly limestone, highly glauconitic in part; somewhat pyritic; small amount of dark-gray chert
5315	5319	4	Chert, dark-gray, shaly, highly calcareous to a translucent, light- to medium-gray chert
5319	5322	3	Chert, grayish-black to olive-black, snaly, "dead", calcareous; some light- to medium-gray, translucent to "dead" chert
5322	5330	8	Chert, light- to medium-gray, translucent to opaque, calcareous, somewhat dolomitic; a large amount of dark-gray to grayish-black, shaly chert
5330	5340	10	Chert, light- to medium light gray, translucent, some dark-gray to grayish-black (shaly), calcareous in upper part, somewhat dolomitic

- 5340 5349 9 Chert, light- to medium-gray, translucent to opaque, contains large quantities of siliceous sponge spicules?; some dark-gray, shaly material, somewhat dolomitic
- 5349 5352 3 Chert, white to medium light gray, transparent to translucent, some siliceous sponge spicules?; contains many spots and streaks of dark-gray, shaly material, somewhat dolomitic
- 5352 5354 2 Chert, white to light-gray (very dull, partly translucent), dark-gray (very shaly), highly fractured, somewhat dolomitic
- 5354 5359 5 Chert, light to medium light gray, mostly translucent with siliceous spicules?, and medium- to dark-gray, very silty and shaly; trace of clear, glassy vein quartz
- 5359 5368 9 Chert, light- to medium-gray, mostly translucent with large number of siliceous spicules? ; many fractures; some medium- to dark-gray, very shaly chert

Marcellus Shale, 21 Feet

- 5368 5382 14 Shale, grayish-black to black (carbonaceous), highly calcareous in part, pyritic; some white vein calcite
- 5382 5389 7 Siltstone, dark- to dusky yellowish brown, highly micaceous, very shaly; shale, grayish-black to black (carbonaceous) to a grayish-black, highly calcareous shale, pyritic; small amount of white vein calcite

Huntersville Chert 314 Feet

- 5389 5399 10 Shale (highly calcareous) to limestone (very shaly); grayish-black to black, pyritic; a large amount of grayish-black to black shale and some dark- to dusky yellowish brown shale; a little white vein calcite
- 5399 5402 3 Limestone (shaly) to a calcareous shale, grayish-black, somewhat pyritic; a large amount of grayish-black to black shale (probably cavings)
- 5402 5407 5 Shale, grayish-black, highly calcareous, some shaly limestone; small amount of white, vein calcite; trace of chert
- 5407 5413 6 Limestone, grayish-black, very shaly and chert, medium- to dark-gray, calcareous; small amount of grayish-black, calcareous, glauconitic shale
- 5413 5415 2 Chert, dark-gray (very shaly), some medium-gray translucent, highly calcareous, somewhat dolomitic
- 5415 5416 1 Chert, grayish-black to brownish-black (shaly), and light- to medium-gray, translucent, highly calcareous, somewhat dolomitic
- 5416 5427 11 Chert, light- to medium-gray, translucent to "dead", some transparent chert, some dark-gray (shaly, "dead"), highly calcareous, dolomitic
- 5427 5435 8 Chert, light to medium light gray, translucent and transparent to dead, some dark-gray (shaly), somewhat dolomitic
- 5435 5438 3 Chert, light-gray, transparent to translucent, contains siliceous sponge spicules?, somewhat dolomitic

5438	5442	4	Chert, white to medium light gray, translucent, transparent in in part, contains a moderately large amount of sponge spicules? slightly dolomitic; contains spots and streaks of dark, shaly material
5442	5447	5	Chert, very light to medium light gray (transparent to translucent), medium-gray ("dead") to dark-gray, (shaly); contains some siliceous sponge spicules?; slightly dolomitic; some vein quartz
5447	5455	8	Chert, white (milky) to very light gray (translucent), medium-gray ("dead") to dark-gray ("dead"), high shale content, somewhat dolomitic; contains large numbers of siliceous sponge spicules?
5455	5464	9	Chert, medium light to medium-gray, translucent, contains large numbers of siliceous sponge spicules?; some medium dark to dark-gray, very shaly chert, silty in part
5464	5480	16	Chert, medium-gray (translucent to "dead") to a medium dark gray (with greenish cast), very silty, highly glauconitic chert; some dark-gray, shaly chert; small amount is dolomitic
5480	5503	23	Chert, medium- to dark-gray (shaly,),"dead," translucent in part, silty, glauconitic in part
5503	5526	23	Chert, medium-gray ("dead") to a dark-gray, siliceous shale, silty
5526	5534	8	Siltstone to chert, medium- to dark-gray, very shaly in part, slightly dolomitic
5534	5547	13	Chert to shale (siliceous) and siltstone, medium dark gray to grayish-black; some white vein calcite and clear glassy quartz at the bottom
5547	5571	24	Chert to siliceous shale, medium-dark to dark-gray, some grayish-black, silty
5571	5577	6	Chert, medium- to medium dark gray, very shaly in part; small amount of white vein dolomite and clear glassy quartz
5577	5581	4	Chert, medium dark to dark-gray, some grayish-black, very shaly, silty
5581	5623	42	Chert, medium- to medium dark gray, dark-gray to grayish-black, (very shaly to shale), very silty in part (particularly at the bottom)
5623	5630	7	Chert, medium- to medium dark gray, silty; some dark-gray, very shaly, silty chert, slightly dolomitic
5630	5649	19	Chert, medium- to dark-gray, silty to a siliceous shale, dark-gray to grayish-black
5649	5658	9	Shale, grayish-black; some chert, dark-gray to grayish-black
5658	5665	7	Chert, medium- to medium dark gray to siliceous shale and shale, dark-gray to grayish-black; small amount of dolomite is present
5665	5668	3	Chert, medium- to medium dark gray, some grayish-black (very shaly)
5668	5676	8	Chert to siltstone (fine), medium- to medium dark gray, dark-gray (shaly) to grayish-black shale, slightly dolomitic

5676	5684	8	Chert (silty), medium to medium dark gray to siltstone and shale, dark-gray to grayish-black; small amounts of dolomitic chert
5684	5687	3	Chert, medium to medium dark gray, silty in part; some dark-gray to grayish-black, cherty siltstone and shale
5687	5690	3	Chert, medium light to medium dark gray, silty, slightly calcareous and dolomitic
5690	5694	4	Chert, medium dark to dark-gray, silty in part; some grayish-black, siliceous shale; small amount of white dolomite
5694	4703	39	Chert to very fine siltstone, medium to medium dark gray, some dark-gray to greenish-black (very shaly), dolomitic in part