

Lenora Ramsey No. 1 Well

Clay District, Hancock County, W. Va.

By John T. Galey, 2615 Grant Building, Pittsburgh, Pa.

Located 3.38 mi. S. of 40 35' and 0.93 mi. W. of 80 35' - 80 -
Wellsville Quadrangle.

Elevation, 1069' L.

Permit Han-41.

Drilling commenced June 6, 1942; completed Oct. 3, 1942.

Well starts 13' below horizon of Upper Freeport Coal.

Gas and show of amber oil in Oriskany at 4771-4474'.

Section based on samples from 0 to 4829', examined by J. H. C. Martens,
omitting most of Devonian Shales.

Top.	Bottom.	Thickness.	<u>Conemaugh Formation, 55 + feet.</u>
0	5	5	Clay, brown
5	17	12	Shale, brown and gray
17	25	8	Shale, yellowish-green, silty; some brown and yellow limestone nodules
25	30	5	Clay, red, gray and yellow with limy nodules
30	35	5	Shale, green, silty
35	40	5	Shale, red
40	45	5	Clay, red and white; breaks in smooth pieces, some with conchordial fracture
45	55	10	Clay, nearly white and grayish yellow, partly silty; also some gray and red clay
			<u>Allegheny Formation, 285 feet</u>
55	65	10	Clay, gray, with much gray and brown lime- stone; this interval might be more lime- stone than clay (Upper Freeport Limestone Horizon)
65	75	10	Siltstone, dark brown, shaly, carbonaceous
75	85	10	Sandstone, gray and medium-grained with thin streaks of coal 50%; gray shale and silt- stone, 50%

85	110	25	Sandstone, light-gray, with some spots of brown (Siderite), fine- to medium-grained; contains flakes of muscovite, biotite, and chlorite
110	135	25	Sandstone, nearly white, fine to medium-grained
135	140	5	Siltstone and silty shale, gray 70%; light-gray, medium-grained sandstone, 30%; trace of coal
140	145	5	Sandstone, light-gray with dark carbonaceous streaks, very fine, thin-bedded and shaly
145	150	5	Sandstone, light-gray, very fine
150	160	10	Sandstone, light-gray, very fine, with dark carbonaceous streaks
160	175	15	Sandstone, light-gray, fine 90%; gray silty shale, 10%
175	225	50	Sandstone, nearly white, medium-to coarse-grained, crystal faces on many grains
225	230	5	Clay, nearly white, 40%; sandstone, like that above, 40%; coal 20% (Lower Kittaning coal and fire clay)
230	235	5	Siltstone, white, shaly; also some clay, sandstone and coal as above
235	240	5	Siltstone, light-green, micaceous, with siderite apherulites
240	245	5	Siltstone, gray, shaly, micaceous, with siderite apherulites
245	250	5	Shale and siltstone, gray, 70%; brown silty limestone, 30%
250	255	5	Siltstone, light-gray to greenish, sandy, partly calcareous
255	260	5	Siltstone, gray, shaly, micaceous
260	295	35	Shale, dark-gray, very silty, micaceous, contains small specks of siderite and carbonaceous matter
295	300	5	Shale, dark-gray, silty
300	305	5	Shale, gray and dark-gray, 80%; brown fossiliferous limestone 10%; gray siltstone, 10% (Vanport Limestone)

305	310	5	Shale, dark-gray, 60%; very light-brown clay which falls to pieces quickly in water, 30%; siderite, 10%
310	315	5	Shale and shaly siltstone, gray to brown
315	325	10	Shale, nearly white, silty, micaceous, with siderite spherulites, 70%; dark-gray shale, with traces of coal, 30%
325	330	5	Siltstone and silty shale, very light gray, with abundant siderite spherulites, 80%; brown clay and soft shale, 20% trace of coal
330	335	5	Siltstone, gray, shaly, 90%; light brown soft shale, 10%
335	340	5	Siltstone and silty shale, grayish-green <u>Pottsville Formation, 256 feet</u>
340	350	10	Shale, dark-gray, with siderite concretions
350	360	10	Shale, gray to black, with small amount of coal, 90%; light-brown shale, 10%
360	365	5	Siltstone and silty shale, light-brown, 70%; dark gray siltstone, 20%; coal and dark-gray shale, 10%
365	374	9	Shale, dark-gray to black, silty
374	385	11	Shale, dark-gray, silty with siderite concretions and a trace of coal
385	390	5	Shale, dark-gray, silty 85%; coal, 15%
390	395	5	Siltstone, dark-gray, carbonaceous, shaly
395	400	5	Siltstone and shale, dark-gray, carbonaceous, 80%; dark-gray and dark-brown impure, fossiliferous limestone, 20% (corresponds to limestone at 199 to 205' in Tomlinson Run State Park Well)
400	405	5	Siltstone, gray
405	410	5	Siltstone and shale, gray, containing small flakes of coal
410	420	10	Siltstone, nearly white, sandy, 80%; gray shale and siltstone, 15%; coal, 5%

420	425	5	Siltstone, brown, very sandy with abundant siderite spherulites
425	430	5	Shale, light-gray, with siderite spherulites
430	435	5	Siltstone, gray, shaly, with small specks of siderite
435	440	5	Shale, dark gray
440	445	5	Shale, light-brown to nearly white, silty 80%; dark-gray shale and siltstone, 20%; some siderite concretions and spherulites and a trace of coal
445	465	20	Shale, dark-gray, silty, with black carbonaceous streaks
465	523	58	Siltstone, gray, shaly, with some siderite and many small flakes of coal
523	528	5	Siltstone and silty shale, dark-gray to black, 60%; nearly white shale with siderite spherulites, 30%; fragments of siderite concretions, 10%
528	533	5	Shale and siltstone, very light gray, with much siderite
533	567	44	Shale, black
567	572	5	Sandstone, light-gray, very fine
572	578	6	Shale, black
578	582	4	Shale, very light gray
582	596	14	Sandstone, white, very coarse, pebbly
608	884	276	Siltstone, and silty shale, gray
884	908	24	Shale, very dark gray (Suhbury Shale)
908	914	6	Sandstone, nearly white, very fine (Berea, 908-960')
914	934	20	Siltstone, light-gray, shaly, micaceous
934	960	26	Siltstone, light-gray, coarse; samples contain small amount of gray shale
<u>Devonian Shales, 3608 feet</u>			
960	1035	75	Shale and siltstone, gray to grayish-green
1035	1055	20	Shale and siltstone, gray to green, 90%; red shale, 10%
1055	1075	20	Shale and siltstone, gray to green, 80%; red shale, 20%

1075	1095	20	Shale, red, silty, 50%; grayish green silty shale 50%
1095	1104	9	Shale, gray to grayish-green, silty, 80%; red shale, 20%
1104	1130	26	Shale, gray to grayish-green, with a few pieces of red, silty
1130	1180	50	Shale, gray to grayish-green, with some siltstone
1180	4560	3380	Samples not examined
4560	4568	8	Shale, black, pyritic
			<u>Huntersville Chert (Onondaga Limestone), 200 feet</u>
4568	4768	200	Chert and cherty limestone, mostly green, with some gray
			<u>Oriskany Sandstone, 52 feet</u>
4768	4772	4	Sandstone, white, medium-grained, highly calcareous
4772	4774	2	Sandstone, white, medium-grained, slightly calcareous (gas and a little oil at 4771-4774')
4774	4820	46	Sandstone, white, fine- to medium-grained, calcareous; samples have large amount of rust stain
			<u>Helderberg Limestone, 16+ feet</u>
4820	4836	16	Limestone, light-brown, highly siliceous; contains large amount of silt and sand and a little gray chert
	4829		Total depth in record.