John F. Parsons No. 1 (GW-429) Well

Ripley District, Jackson County, W. Va.

By Columbian Carbon Company, Charleston, W. Va.

Located 4.02 mi. W. of 81°35' and 0.29 mi. S. of 38°50' -SC- Ripley Quadrangle; 8 mi. N. 70° E. of town of Ripley and 2½ mi. N. 45° E. of the Oriskany test on the Chancey farm.

Elevation, 797.7' L.

Permit, Jac-47.

Drilling commenced June 22, 1939; completed, Oct. 13, 1939.

Gas well; volume, 328,000 cu. ft.; rock pressure 1870 lbs. in 40 hours.

Well was not shot.

Oil small, 1289-1294'; oil show, 3225-3235'.

Fresh water, 210'; 1-14" bailer per hour; 331', 4-14" bailers per hour.
Salt water, 1750', rises 100'; 1785', hole full; 2026-2037', 2-13" bailers per hour.
21½" casing, 21'; 18 5/8", 201'1"; 16", 1036'10"; 13 3/8", 1932' 8" (pulled); 8 5/8", 2540'; 7", 5004'9"; 2 3/8" tubing 5156'3". No liner. No packer.

Coal was encountered at 623-625, 753-756, 948-951 and 1069-1080'.

With the exception of a few unimportant gaps, samples are continuous from a depth of 83 feet to the bottom of the well.

Top	Bottom	Thickness	
			Dunkard Group, 570+ feet
0	8	8	Surface clay
8	30	22	Sand
30	50	20	Sand and gravel
50	83	33	Red rock
83	88	5	Sandstone, light-brown, 60%; red clay, 40%
88	96	8	Clay, red with small limestone nodules
96	110	14	Sandstone, green, fine; large amount of red shale, probably cavings
110	126	16	Clay, red, slightly calcareous; samples also contain some medium-grained sand
126	144	18	Siltstone, green, shaly, micaceous; from 133 to 144' there is much red shale and some limestone, perhaps cavings

Top	Bottom	Thickness	
144	160	16	Sandstone, light-green, fine, with some green shale and siltstone
160	191	31	Clay, red, calcareous; samples contain some rusty sand which looks like weathered material from the surface
191	217	26	Shale, green silty, micaceous with streaks are nodules of impure limestone (hole full water, 210')
217	223	6	Clay, red, calcareous; has small nodules of yellow limestone
223	231	8	Sandstone, green, fine, shaly, micaceous
231	245	14	Clay, yellow, gray and red
245	269	24	Siltstone, green, shaly, micaceous, calcareous
269	291	22	Clay, red, calcareous; contains small limestone nodules
291	307	16	Sandstone, very light gray, medium-grained; contains mica and kaolin
307	370	63	Sandstone, white, coarse; contains a few green specks and some kaolin or similar white clayey material; there are crystal faces on many of quartz grains (Waynesburg Sandstone)
			Monongahela Formation, 255 feet
370	390	20	Siltstone and shale, green; samples also contain large amounts of coarse sand and red clay, both of which are probably from above
390	396	6	Sandstone, light-green, fine, micaceous, calcareous
396	410	14	Clay, red, calcareous
410	434	24	Siltstone and shale, grayish-green, micaceous, highly calcareous contains streaks or nodules of limestone
434	467	33	Clay and soft shale, red, calcareous (corresponds to interval 249-282' in W. T. Chancey well)
467	500	33	Siltstone and shale, grayish-green, micaceous; contains some limestone nodules; a little fine sandstone toward bottom
500	522	22	Clay, red, calcareous
522	533	11	Sandstone, light-green, fine, calcareous; small amount of light-gray limestone
533	540	7	Shale, green, silty, micaceous
540	545	5	Sandstone, light-green, fine, highly calcareous
545	552	7	Shale, red, gray and green, soft and clay like; also some limestone

Top	Bottom	Thickness	
552	565	13	Siltstone, grayish-green, micaceous and calcareous; sample contains some red clay and according to drillers' record there is red rock from 560 to 565'
565	615	50	Sandstone, white, coarse, with high proportion of quartz (Upper Pittsburgh Sandstone)
615	623	8	No sample; recorded as slate
623	625	2	Coal; sample actually consists mostly of dark-gray, micaceous siltstone with only small amount of coal (Pittsburgh Coal)

Conemaugh, Allegheny and Pottsville, 1264 feet

625	668	43	Siltstone and shale, gray, micaceous
668	693	25	Shale, green, partly very silty; small amount of red shale, including some bright-red at top; some limestone nodules
693	698	5	Shale, red, soft
698	703	5	Shale and siltstone, grayish-green
703	708	5	Clay, red, calcareous
708	753	45	Shale, gray, silty, micaceous; there is a considerable amount of yellow to brown limestone, which apparently occurs as nodules in the shale
753	755	2	Coal (sample also includes much clay as below)
755	766	11	Clay, gray, with limestone nodules; more limestone toward the bottom
766	778	12	Shale, green
778	788	10	Siltstone, gray to green, micaceous; grades into very fine sandstone at bottom
788	801	13	Sandstone, light-green, very fine to fine, calcareous
801	829	28	Shale and siltstone, green
829	843	14	Sandstone, light-gray, fine, micaceous, calcareous
843	882	39	Clay and soft shale, red, yellow and gray; contains limestone nodules
882	894	12	Shale and siltstone, gray; large amount of red clay, probably cavings

Top	Bottom	Thickness	
894	910	16	Clay, red, with limestone nodules; also large amount of fine white to light-green sandstone
910	921	11	Shale, green, 50%; soft gray clay, 50%
921	948	27	Sandstone, light-green, very fine, calcareous
948	951	3	Coal (probably not this thick)
951	957	6	Shale, gray
957	962	5	Siltstone, light greenish gray, calcareous, sandy
962	970	8	Clay, red, with limestone nodules
970	975	5	Shale, green
975	984	9	Clay, red, with limestone nodules
984	992	8	Shale, light grayish green, soft
992	1002	10	Shale, gray to green, soft; and impure, fine textured limestone; the samples actually consist mostly of red clay and shale, probably cavings
1002	1018	16	Clay, red, calcareous
1018	1032	14	Sandstone, white, medium-grained
1032	1044	12	Shale, greenish-gray, silty, with siderite spherulites (no sample 1025-1037')
1044	1049	5	Shale, red, gray and yellow, soft
1049	1069	20	Sandstone, green, fine, calcareous, micaceous
1069	1079	10	Clay, gray (?)
1079	1080	1	Coal (corresponds to coal at 892' in W. T. Chancey well)
1080	1090	10	Clay, gray, with small limestone nodules
1090	1096	6	Siltstone and shale, green, micaceous; also includes some shaly sandstone
1096	1110	14	Clay, gray; some red and green clay or soft shale, perhaps cavings
1110	1128	18	Shale, green, 50%; soft gray clay, 50%; the clay may be partly cavings from immediately above, but seems to be mostly a little lighter colored
1128	1133	5	Sandstone, gray, fine, calcareous
1133	1150	17	Shale, green, partly silty; contains limestone nodules
1150	1154	4	Sandstone, white, fine, calcareous
1154	1177	23	Shale, gray to grayish-green, silty and micaceous; 10% of brown limestone, 1164-1177'

Top	Bottom	Thickness	
1177	1181	4	Sandstone, gray, fine, micaceous
1181	1186	5	Shale, gray; small amount of black carbonaceous shale
1186	1208	22	Shale and siltstone, gray, micaceous; some of siltstone is about coarse enough to be called sandstone
1208	1215	7	Limestone, brown
1215	1220	5	Shale, gray, 50%; brown limestone, 50%
1220	1232	12	Shale, gray, silty, micaceous
1232	1274	42	Shale and siltstone, gray to grayish-green, micaceous; siltstone is calcareous and almost a sandstone, 1232 to 1243'; many small siderite spherulites, 1251 to 1270'
1274	1280	6	Shale, black, carbonaceous
1280	1294	14	Sandstone, light-gray to white, fine to medium-grained (oil smell, 1289 to 1294')
1294	1308	14	Sandstone, gray, very fine, shaly, calcareous
1308	1321	13	Sandstone, nearly white, medium-grained
1321	1327	6	Shale, dark-gray; a little black shale and slight trace of coal
1327	1339	12	Shale, black
1339	1346	7	Shale, black, 50%; brownish gray shale, 50%; probably the black shale is above
1346	1407	61	Sandstone, white to very light gray, medium-grained; contains some mica, chlorite, kaolin and siderite
1407	1430	23	Shale, gray, mostly rather dark
1430	1482	52	Sandstone, white to light-gray, medium- to fine-grained
1482	1511	29	Shale, dark-gray to black
1511	1521	10	Siltstone, light-gray, with many small siderite spherulites
1521	1529	8	Shale, gray to slightly greenish, partly silty
1529	1561	32	Sandstone, nearly white, slightly greenish; contains some mica, chlorite and kaolin
1561	1575	14	Shale, dark-gray
1575	1581	6	Sandstone, gray very fine, shaly
1581	1614	34	Siltstone and shale, gray
1614	1644	30	No sample; recorded as black slate
1644	1651	7	Shale, black, silty, micaceous
1651	1695	44	Siltstone, dark-gray, shaly, micaceous; includes some very fine sandstone

Top	Bottom	Thickness	
1695	1706	11	Shale, gray
1706	1727	21	Sandstone, light-gray, very fine
1727	1729	2	Shale, gray, silty (thickness estimated; included in same sample with top of sandstone below)
1729	1779	50	Sandstone, white, medium-grained, nearly all quartz; no sample 1738 to 1752' (water at 1750')
1779	1801	22	Sandstone, white with some rust stain, coarse (hole full of water at 1785')
1801	1818	17	Shale, dark-gray; slight trace of green shale
1818	1866	48	Sandstone, white, fine; very small amounts of soft gray and green shale
1866	1876	10	Shale, gray, partly sandy; contains much siderite in spherulites and fragments of concretions
1876	1889	13	Sandstone, brown and white, poorly sorted, with some very coarse grains; nearly all coarse to very coarse in 3 feet at bottom; contains much siderite (SLM at 1889')

Greenbrier Limestone, 95 feet

1889	1916	27	Limestone, light-gray to very light brown; a little sand toward bottom
1916	1918	2	Limestone, nearly white, sandy
1918	1924	6	Sandstone, very light yellowish gray, highly calcareous; many grains are rounded and frosted
1924	1939	15	Limestone, nearly white, oolitic (supposed oolites are not very distinct and at least part of them may be micro fossils)
1939	1965	26	Limestone, nearly white to light-brown, very fine textured
1965	1975	10	No sample
1975	1984	9	Limestone, nearly white, dolomitic, sandy; from 1980 to 1984' contains a few large well rounded sand grains

Pocono Formation, 482 feet

1984	2000	16	Siltstone, gray to grayish green
2000	2012	12	Siltstone and shale, gray; also a few very coarse sand grains and fragments of pebbles
2012	2092	80	Sandstone, light greenish gray, fine; contains some dark-gray shale, 2054 to 2096'; about half of sample from 2086 to 2092'

Top	Bottom	Thickness	
			is brown calcareous sandstone; others are only very slightly calcareous (water, 2026-2037')
2092	2115	23	Shale, gray
2115	2126	11	Sandstone, light-gray, very fine
2126	2136	10	Sandstone, light-gray, very fine, 50%; darker gray shale and siltstone, 50%
2136	2157	21	Siltstone and shale, gray
2157	2198	41	Sandstone, light-gray, very fine, 70 to 90%; darker gray shale and siltstone, 30 to 10%
2198	2222	24	Sandstone, gray, very fine, 60%; gray shale and siltstone, 40%
2222	2232	10	Sandstone, light-gray, very fine
2232	2273	41	Siltstone, gray, mostly shaly
2273	2300	27	Shale, gray
2300	2319	19	Siltstone, gray, 70%; gray shale, 30%
2319	2414	95	Shale, gray; all samples contain some shaly siltstone, and some have up to 50%
2414	2437	23	Shale, dark-gray, distinctly laminated
2437	2456	19	Shale, very dark-gray to black, distinctly laminated; contains pyrite in small specks and concretions (Sunbury Shale, 2414-2456')
2456	2466	10	Sandstone, light-gray, fine to very fine, slightly calcareous, pyritic; much of the pyrite is in good octahedral crystals (Berea Sandstone)
			<u>Devonian Shales, 2489 feet</u>
2466	2495	29	Siltstone, gray, shaly; possibly some of this should be included with the Berea Sandstone
2495	3086	591	Shale and siltstone, gray to grayish-green; most of interval 2765-2877' is shaly siltstone; fossil shells in some of siltstone
3086	3706	620	Shale, gray; nearly every sample contains some silty shale and micaceous siltstone but average texture is finer and color darker than in interval above, from which this is not very distinctly separated; first of small spherical pyrite concretions noted at 3472' (show oil and gas, 3225-3235')

Top	Bottom	Thickness	
3706	3782	76	Shale, dark-gray; the samples are actually a mixture of shale of different colors from medium-gray to nearly black
3782	3975	193	Shale, gray; mostly a little lighter than shale from 3706 to 3782' but mostly contains from 10 to 20% of very dark fragments; large amount of gray siltstone interbedded with the shale
3975	4260	285	Shale, dark to very dark gray, partly silty; some of darker fragments contain spores (3975' in this well corresponds to 3799' in Chancey well; gas, 3779-3784', 119,000 cu. ft.; blew down to 103,000 cu. ft.)
4260	4663	403	Shale, medium-gray; most samples contain a little siltstone and a little very dark shale
4663	4769	106	Shale, dark-gray; contains some shale as light as that in interval above, but proportion of dark is much greater
4769	4809	40	Shale, very dark gray to black, pyritic
4809	4837	28	Shale, medium-gray, 50%; very dark gray to black shale, 50%
4837	4955	117	Shale, dark-gray to black (gas, 4875-4881', 119,000 cu. ft.)
			Huntersville Chert, 111 feet
4955	4966	11	Limestone, brown, cherty; thin streak of biotite-rich siltstone at top
4966	4972	6	Limestone, light-brown, very cherty; contains some fine sand and a little glauconite
4972	5003	31	Limestone, light-brown, very cherty; contains much light-gray translucent chert
5003	5066	63	Limestone, light-brown, very cherty; contains small to moderate amount of silt and very fine sand, a little dolomite, and scarce grains of glauconite
			Oriskany Sandstone, 62 feet
5066	5117	51	Sandstone, white with some rust stain, fine, slightly calcareous (gas pays, 5066-5076, 5088-5092 and 5100-5110')
5117	5128	11	Sandstone, gray, fine to very fine, calcareous; darker and more calcareous toward bottom

Top	Bottom	Thickness	
			Helderberg Limestone, 11+ feet
5128	5135	7	Limestone, brownish-gray, sandy, fossiliferous
	5139		Total depth