S. R. Pence No. 1(1330) Well.

Talcott District, Summers County, W. Va.
By Godfrey L. Cabot, Inc., 900 Union Trust Bldg., Charleston, W. Va.
Located 3.18 miles S. of 37% and 0.18 miles W. of 80° 45'. Big Bend Quadrangle - NE. Elevation 1798,464:

Permit Sum-2.

Drilling commenced August 26, 1950; completed December 30, 1950.

Dry hole - plugged and abandoned.

Section based on samples from 1069' to 3140'; examined by Russell R. Flowers

Top	Bottom	Thickness	
			Mauch Chunk Group, 150, plus, Feet.
1069	1110	41	Shale, medium dark gray to elive-gray, very highly delomitic, caleareous
1110	1147	37	Shale, dark-gray to grayish-black, very highly calcareous, mostly a very shaly limestone at 1122 to 1130; highly fossiliferous
1147	1166	19	Shale, dark-gray, highly calcareous (due to fessil fragments)
1166	1177	11	Limestone (very shaly) to shale (highly calcareous), dark-gray to grayish-black, some fossil fragments
1177	1190	15	Limestone, medium to dark-gray with light-gray spets, some grayish-black, crincidal in the upper part and highly colitic in the lower part; somewhat silty
1190	1201	11	Siltstone and sandstone (very fine) to limestone (very silty), light clive gray to clive-gray and meder ium dark gray, somewhat delemitic with a little grayish-red delemite (specks and some spets), a little chlorite, somewhat argillaceous, highly argillaceous to a silty, argillaceous limestone at the bettom
1201	1215	34	Shale, medium dark gray to dark greenish gray and clive-gray, highly delemitic, calcareous; some light to medium dark gray, colitic limestone
1215	1219	4	Shale, medium dark to dark-gray, highly calcareous to a shaly limestone, fessiliferous, colitic in part
			Greenbrier Limestone, 916 Feet.
1219	1254	15	Limestone colite, medium dark to dark-gray with light- to medium-gray, interstitial calcite and fossil fragments (crincid stems), medium- to coarse-grained, somewhat silty
1234	1239	5	Limestone, dark-gray to grayish-black, very shaly, fossiliferous, colitic in part
1239	1278	39	Limestone, dark-gray to brownish- and grayish-black with medium-gray spots; contains colite and fossil fragments, somewhat shaly in the lower part; much dark colloidal material in residue
1278	1292	14	No sample
1292	1307	15	Limestone, mottled light- to medium-gray and grayish- black to brownish-black, sandy (very fine to fine), very silty at the top

1307	1313	6	Limestone colite, medium dark gray (dark grayiem colites and medium-gray coment), fine- to coarse-grained, somewhat silty
1313	1318	4	Limestone colite, dark-gray to brownish-black, very fine to medium-grained, slightly shorty
1317	1339	22	Limestone, dark-gray to grayish-black and brownish- black with medium-gray spots, silty
1339	1350	11	Limestone, grayish-black to brownish-black, very shaly, somewhat fossiliferous
1350	1362	12	Limestone colite, medium-gray to clive-gray, medium- to coarse-grained, somewhat fossiliferous silty (much of the silt is subsdral quartz and some pyrite)
1362	1366	4	Limestone colite, brownish-black to grayish-black, very fine to medium-grained, very silty (extremely fine)
1366	1381	15	Limestone, brownish-black to grayish-black, some medium-gray, highly delomitic in the upper part, very shaly, silty, somewhat fessiliferous, some dark colloidal sesidue
1381	1386	5	Shale, grayish-black to black, highly caleareous, some grayish-black to brownish-black limestone
1386	1393	7	Limestone colite, brownish-gray to dark-gray and brownish-black, somewhat fessiliferous, silty
1395	1425	5 0	Shale (highly calcareous) to limestone (very silty), dark-gray
1425	1445	22	Siltstone, (highly calcareous) to limestone (very silty dark-gray to grayish-black, some medium-gray, colitic and fessiliferous in part (particularly at the bottom)
1445	1450	5	Limestone colite, light clive gray to brownish-gray, medium- to coarse-grained
1450	1460	10	Limestone, light olive gray and medium dark gray, somewhat silty and somewhat shaly, minima collitic and fossiliferous in part
1460	1465	5	Limestone, medium dark to dark-gray, very shaly, oclitic; contains light to medium-gray fessil fragments
1465	1470	8	Limestone, dark-gray to grayish- and brownish-black, some medium-gray, very shaly, some fossil fragments
1470	1480	10	Siltstone (highly caleareous), greenish-gray to dark greenish gray to a dark-gray; and grayish-black, silty as and shaly limestone
1480	1497	17	Limestone (very shaly and silty) to a a highly cal- careous siltstone and shale, grayish-black to brownish- black, some dark-gray
1497	1504	7	Limestone, brownish-black, very fine to medium crystalline, silty, solitic in part
1504	1510	6	Shale, dark-gray, very highly calcareous, highly fossiliferous, silty
1510	1517	7	Limestone colite, brownish-gray to brownish-black, silty; a large amount of dark-gray, silty, highly cal-careous shale

1517	1533	16	Limestone colite, light clive gway to medium-gray and brownish-gray, fine- to medium-grained, some Enkn: fessil fragments; a moderate to large amount of medium-gray to dark-gray, very shaly, delemitic limestone; a large amount of dark-gray to grayish- black, highly calcareous shale in the upper part (cavings?)
1533	1541	8	Limestone, brownish-black to grayish-black, silty and somewhat shaly
1541	1561	20	Shale, dark-gray to grayish-black, very highly calcareous, skity
1561	1575	14	Limestone colite, medium dark to dark-gray at the top to grayish- and brownish-black at the bottom; colites are fine to medium-grained, fossiliferous, very shalp at the top, silty
1575	1610	36	Limstone, grayish-black, very shaly to a highly calcareous shale, colitie in part, contains fossil fragments
1610	1620	10	Shale to siltstone, dark-gray to grayish-black, very highly calcareous
1620	1645	25	Limestone (very salty and shaly) to a highly calcareous, very silty shale, dark-gray, some gray-ish-black
1645	1672	27	Siltstone (highly calcareous, shaly) to a lime- stone (very shaly), dark-gray to grayish-black, some (of the limestone is fossiliferous
1672	1698	26	Siltstone, dark-gray to grayish-black, very highly calcareous, very shaly
1698	1702	4	Limestone, dark-gray to grayish-black, silty, colitie in part
1702	1706	4	dark Limestone, olive-gray, some medium/gray, very silty
1706	1714	8	Shale to miltstene, elive-gray to greenish-gray to dark-gray, very highly dolomitic
1714	1721	7	Limestone, light-gray to brownish-gray and medium dark to dark-gray, colitic, delomitic (interstitial), shaly and silty
1721	1730	. 9	Dolomite, light- to medium-gray at the top to clive-gray and dark greenish gray at the bottom
1730	1744	14	Shale, grayish-brown to very dusky red, highly calcareous, dolomitie
1744	1750	6	Shale, dark-gray, very highly calcareous; some grayish-black, highly celitic limestone
1750	1758	8	Limestone, brownish-black, some grayish-black, colitic in part, shaly in part
1758	1769	11	Shale, dark greenish gray to olive-gray, some
1769	1776	7	grayish-brown, highly dolomitic; calcareous Limestone colite, brownish-gray, fine- to medium- grained
1776	1782	6	Shale, grayish-brown to dusky-brown, greenish-gray to dark greenish gray and medium dark gray, highly
1782	1789	7	calcareous Limestone to calcareous shale, medium- to dark- gray, some olive-gray to dark greenish gray, colitic in part

1789	1798	4	Limesions, dark-gray to grayish-black, some light- to medium-gray, shaly and silty
1795	1814	21	Limestone, brownish-gray to brownish-black and silty at the top to brownish-black a ni argillaceous at the bettem, very fine to medium crystalline
1814	1827	13	Limestone colite, brownish-gray to brownish-black, fine-grained, some silt (suhedrel quarts)
1827	1834	7	Limestone, brownish-gray to dark-gray, finely orystalline, somewhat milty
1834	1838	4	Shale (highly dolomitic, calcareous) to a calcareous very shaly dolomite, dark greenish gray to med um dark gray; trace of pyrite
1838	1848	10	Limestone, grayish-black, some light- to medium-gray, highly colitic, very silty, argillaceous
1848	1845	- 3	Depth correction
1845	1863	18	Limestone, brownish-gray, dark gray, some brownish- black, highly delemitie, very silty, argillaceous
1863	1873	10	No sample
1873	1876	3	Limestone colite, brownish-black to black, some light- to medium-gray, very shaly and very silty; trace of white anhydrite
1876	1888	12	limestone, dark-gray to brownish-black, dolomitic, very silty, argillaceous
1888	1898	10	Limestone, dusky yellowish brown to brownish-black, very fine to finely crystalline, silty, somewhat argillaceous
1898	1914	16	Dolomite, dark-gray to olive-gray, very silty and coloureous at the top to a calcareous, very highly delomitic shale at the bottom
1914	1927	13	Limestone, brownish-gray to dark-gray, very silty, argillaceous
1927	1939	18	No sample
1939	1982	13	Limestone solite, brownish-black, some light- to medium-gray; a moderate amount of dark greenish gray to dark-gray, highly dolomitio, calcareous, silty shale
1952	1963	11	Limestone, dark-gray to brownish-black, silty; some dark greenish gray to medium dark gray, highly dolomitic shale
1965	1972	9	Limestone, dark-gray, some medium dark gray to dark greenish gray, very silty
1972	1977	5	Limestone, dark-gray to grayish-black, some light- to medium-gray, silty, somewhat shaly
1977	1995	18	Limestone, dusky yellowish brown to brownish-black, very finely crystalline, somewhat silty, some light- te medium-gray and very silty at the bettom
1995	2014	19	Limestone, brownish-black to grayish-black, silty and shaly, very silty and shaly at the top; small smount of light-gray chert
2014	2034	29	Limestone, brownish-gray to dusky yellowish brown (with light-gray spots), some brownish-black, argillacous, somewhat silty, sandy at the bottom, small amount is dolomitic

2034	2041	7	Limestone, grayish-black to brownish-black, sandy (very fine) to silty, argillaceous
2041	5063	21	Dolomite, light- to dark-gray, some medium dark to dark greenish gray, very shaly to a highly dolomitic shale; a large amount of grayish-black to brownish-black, very silty, very shaly limestone with a trace of chert
20 62	2068	6	Limestone (very shaly) to a calcareous chert, brownish- black to black
2068	2078	10	Limestone, (very shaly) to a semewhat calcareous, colitie chert, mottled light-gray to brownish-gray and brownish-black to black
20 78	2084	6	Shale, (very highly caleareous) and some gray shaly limestone, dark-gray to grayish-black, highly fessil-iferous, slightly pyritic, somewhat cherty
2084	2111	27	Limestone, grayish-black to black, very shaly, cherty, delomitie in the lower part
2111	2130	19	Dolomite (shaly) to shale (highly dolomitie), olive- gray to clive-black, some medium- to dark-gray, cal- careous, silty; trace of anhydrite
2130	21.55	5	Dolomite, light-gray to light clive gray; some greenish-gray to dark greenish gray, dolomitic shale; trace of anhydrite
			Macerady Pacies of Pocono ?, 93 Feet.
2135	2142	7	Shale, very dysky red to dusky-brown with a little anhydrite; a moderate amount of light- to medium-gray dolomite; some greenish-gray to dark-gray, silty, dolomitic shale
21 42	2152	10	Dolomite, light- to medium silty dolomite, medium- gray and greenish-gray to a dolomitic siltatone, dark- gray; a large amount of very dusky red to dusky-brown shale with a little anhydrite
2152	21.57	5	Shale and siltstone, olive-black to greenish-black, highly dolomitie; some dusky-brown to brownish-gray, shaly siltstone
2157	2168	11	Shale, olive-gray, dolomitic, silty; shale, dark greenish gray, slightly dolomitic with spots of anhydrite and a little oblerite
2168	2207	39	Shale, very dusky red to grayish-brown; a large amount of dark greenish gray (with white anhydrite spots containing Chlorite); some greenish-gray to olive-gray, shady shale at the bottom
2207	2214	7	Dolomite (very shaly) to shale (highly dolomitic), dark-gray to grayish-black, silty in part; small amount of anhydrite; trace of pyrite
2214	2218	4	Dolomite (very shaly) to dolomitie shalle, olive- gray to brownish-gray, silty
2218	2228	10	Shale, olive-gray to dark greenish gray (sandy in part), some grayish-bessum; some sandstone, greenish-gray to dark/ himbs greenish gray; fine-grained
			Pocene Fermation, 720? Feet.
2228	2236		Sandstone, light- to dark-gray, highly argillaceous, some carbonaceous ma terial, very fine to medium-grained; some clive-gray to greenish-gray, shaly dolomite

22 36	2251	15	Sanistone, light- to medium-gray with dark-gray (shaly streaks, very fine to medium-grained; some grayish-black, salty shale; small amount of orystalline dolomite
2251	2261	10	Sandstone, light-gray to medium -gray (with dark- gray to grayish-black streaks of silty shale), very fine to medium-grained, subangular, many of the grains are rock fragments
5591	2 273	12	Shale, grayish-black, silty, interbedded with a medium-gray, "dirty", quartalfie, fine-grained sand- atons
2273	2290	17	Sandstone, light- to medium-gray and brownish-gray (in part), very fine to fine-grained, some medium grains, subangular, hard, part of the sandstone is highly argillaceous to sandy shale; a mederate amount of grayish-black, silty shale
22 90	2307	17	Sandstone, light-gray, some medium-gray, very fine to fine-grained, subangular to subrounded, argillaceous (many rock fragments); some grayish-black shale
2307	2322	1	Sandstone, light-gray, fine-grained, subangular to
			subrounded; some of the sand grains are rock fragments
2322	2332	10	Sandstone, light- to medium-gray, very fine to fine- grained, some medium grains, subangular to subrounded, some shale grains, somewhat chloritic and misaceeus, a few streaks of dark-gray shale
2332	2348	16	Siltstone, dark-gray, sandy (very fine), shaly, knolinitie; a little mica and chlorite; a large amount of grayish-black shale in the middle part; very sandy at the bettem
2348	2358	10	Siltatone, dark-gray, highly kaolinitie; a large amount of grayish-black shale; small amount of brownish-black, shaly siderite
2358	2376	18	Sandstone, medium- to dark-gray, very fine with some fine to coarse quarts grains, silty, highly argillaceous very highly knolinitic and some grayish-black shale in the upper part, somewhat pyritic
2376	2404	28	Sandstone (very fine) to siltatone, medium dark to dark-gray, very shalp, highly micaceous, kaolinitie; a large amount of grayish-black shale
2404	2439	35	Siltstone to sandstone (very fine), medium dark to dark-gray, highly argillaceous, highly kaelinitie, micaceous; some grayish-black shale
2459	2474	35	Siltstone, medium dark to dark-gray closely inter- layered with grayish-black shale, mostly siltstone at 2458 to 2466
2474	2500	2600	Siltstone, medium dark to dark-gray, very shaly with some grayish-black shale
2500	2525	25	Siltstone to sandstone (very fine), medium dark to dark-gray (with greenish and brownish casts), highly dolomitic
2525	2533	8	Shale and siltstone, dark-gray to grayish-black
2533	2548	15	Shale and siltstone, grayish-black to black, delo- mitic in part
2548	2553	5	Siltstene, medium dark to dark-gray; some grayish- black to black, very skity shale

25 5 3	2569	16	Siltstone to sandstone (very fine), dark-gray, some fine to very coarse quarts grains, very shaly, slightly delemitic
25 69	2587		Sandstone (very fine, very silty), medium dark gray, contains much dark (shaly) material, some chlorite and mica
2587	2614	27	Siltstene, medium dark to dark-gray; a large amount of dark-gray to grayish-black sha le; spme dark yellowish brown siltstone and shale at the bottom
2614	2626	12	Sandstone, light- to medium-gray, very fine grained, centains shale grains and some make mica
2626	2644	18	Shale, dark-gray to grayish-black; some siltstone to sandstone (very fine with some fine to very coarse grains), light-tomedium gray
2644	2669	25	Shale, dark-gray to grayish-black, small amount of dusky yellowish brown (highly sideritie); small mount of light- to medium-gray, highly kaolinitie sandstone
2669	2687	12	Sandstone, very light to medium-gray, very fine to fine-grained, contains scattered rock fragments and a little siderite, darker with a much higher shale content at the bottom; some interlayers of dark-gray to grayish-black shale
2687	2684	8	He sample
2684	2698	14	Sandstone, light- to medium dark gray, very fine grained, silty, contains some dark (shaly) material; a large amount of grayish-black to dark-gray shale
8698	2710	12	Sendstone, medium-gray, very fine grained, a large amount of dark (shaly) material; some dark-gray to grayish-black shale
2710	2724	14	Shale, dark-gray to grayish-blacks some light-to dark-gray siltstone
2724	2 766	42	Siltatone, medium- to darkpgray and shale, dark-gray to grayish-black
2 766	2774	8	Siltstone, medium to medium dark gray; some dark- gray to grayish-black shale
2774	2780	6	Siltstone, medium durk gray to grayish-black (very shaly)
2780	2799	19	Siltstone, medium light to medium dark gray, some dark-gray to grayish-black (very shaly)
27 99	2809	10	Siltstone and shale, medium dark gray to grayish- black
2809	2822	18	Siltstone, dark-gray to grayish-black, very shaly
2822	2830	8	Siltstone, medium- to dark-gray, some grayish- black (very shaly)
2830	2890	60	Siltstone, dark-gray to grayish-black, very shaly, he highly kaolinitie; mostly shale at 2849 to 2855; some medium dark gray at the bottem
2890	2912	22	Siltstone, medium- to dark-gray; a moderate to large amount of grayish-black siltstone and shale
2912	2918	6	Shale, dark-gray to grayish-black, very silty

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2918	2930	18	Shale, grayish-black to black, carbonaceous, silty; soud darkpgray to grayish-black, shaly siltstone
2930	2948	18	Shale, grayish-black to black, carbonaceous, pyritie; a large amount of medium- to dark-gray shale and siltstone
STATE OF THE PARTY	>	·	Devamin Shales, 192, plus, Feet.
2948	2956	8	Siltstone, medium and medium dark gray at the top to medium dark gray at the bottom; a moderate amount of dark gray shale
2956	2972	16	Siltstone, medium dark gray, some dark yellowish brown (sideritic); shale, dark-gray
2972	3005	53	Shale, dark-gray; siltstone, medium dark gray; some sandstone, medium-gray, very fine, calcareous in part
3005	3044	39	Siltstone and shale, meidium dark to dark-gray
3044	3062	18	Siltstone to mandstone (very fine), medium- to medium dark gray; a large amount of medium-dark to dark-gray, silty shale; some grayish-black, very shaly siltstone
3062	3085	25	Shale, medium dark gray
3085	3140	55	Siltstone, medium- to medium dark gray; shale, med- ium dark to dark-gray; some grayish-black, very silty shale at the bettom
	3140		TOTAL DEPTH