

SEP 17 1954

Moore Keffe & Co
(ERNEST HUTTON TRACT) No. 1.

By Nolle Oil and Gas Corp., Agent, Pittsburgh, Pa.
 Middle Fork District, Randolph County, W. Va.
 Located 0.00 Mi. S. of 38° 50' Lat. and 3.44 Mi. W. of 80° 00'.
 Sago Quadrangle - SE.
 Permit - Ran-24 R.
 Elevation 2276 VA.

Drilling commenced 11-10-53; completed 1-24-54.

Fresh water 90', 1/3 bbl. per hour; show water 160'.

Gas show, 1560'; gas at 1594', 1640'; 1625'; 1680'; 1704'.

Gas well; volume 1,518,000 Cu. Ft. 630# rock pressure.

Casing, wood conductor 16'; 10", 138' 4"; 8-1/4", 786' 11"; 6-5/8", 1592' 2";

All left in. Coal at 111'

Section based on samples from 213' to 1712'; examined by Russell R. Flowers.

Top Bottom Thickness

POTTSVILLE FORMATION, 46, plus, FEET.

213	224	11	Sandstone, very light gray, fine to medium grained, many coarse to very coarse quartz grains at the bottom
224	227	3	Sandstone, fine to very coarse grained, very light gray; a moderate amount of siltstone, medium to medium dark gray, moderately sideritic
227	259	32	Sandstone, light gray with moderate amount of dusky yellowish brown siderite in the upper part, fine grained with many medium grains, very fine to fine grained at the top and bottom, fine to medium grained at 247-252

MAUCH CHUNK, 481 Feet.

259	288	29	Shale to siltstone, medium to medium dark gray and dark greenish gray, grayish brown and brownish gray to olive gray in the upper and middle part, large amount of grayish brown to dusky brown at the bottom, medium gray to dark greenish gray at the top
288	302	14	Siltstone to sandstone (very fine grained), dark greenish gray to greenish gray, calcareous (some fossil fragments?), chloritic, somewhat micaceous, some detrital shale fragments
302	322	20	Siltstone, medium dark gray to dark greenish gray with olive gray, limestone (fossiliferous) nodules in the upper part, medium to medium dark gray, some greenish gray, calcareous with some limestone nodules, many carbonaceous ^{streaks} and a little pyrite in the middle part, medium to medium dark gray, calcareous with olive gray to dark gray limestone nodules, sandy in part in the lower part
322	336	14	Sandstone, medium gray, very fine grained, some fine to medium grains, contains many olive gray to dark gray limestone nodules in the upper part, medium to medium dark gray and very silty in the middle part
336	347	11	Sandstone, (very fine grained) to siltstone, medium to medium dark gray, some dark gray (shaly) to shale, dolomitic in part
347	357	10	Sandstone, light gray, very fine grained, some medium dark gray siltstone to dark greenish gray shale at the top

357	368	11	Shale, grayish brown, soft
368	653	285	Not described (mostly red shale)
653	675	22	Sandstone (very fine grained) to siltstone, medium gray, some medium dark gray (shaly) in the upper part, chloritic, micaceous, kaolinitic, small amount of carbonaceous material (specks and streaks)
675	692	17	Shale, grayish brown, some olive gray to dark greenish gray and dark gray shale (calcareous in part)
692	695	3	Shale, dark gray to dark greenish gray to a dark gray and olive gray, highly calcareous, highly dolomitic siltstone
695	710	15	Shale, dark gray, highly calcareous, dolomitic in part
710	740	30	Limestone to shale (calcareous), grayish black to brownish black, highly fossiliferous (some crinoid fragments); a large amount of dark gray shale in the lower part
<u>GREENBRIER LIMESTONE, 290 Feet.</u>			
740	750	10	Limestone-oolites, white to light olive gray, some brownish gray, sandy to an olive gray sandstone (highly calcareous) in the lower part; some medium dark gray to dark greenish gray, sandy calcareous shale at the top
750	755	5	Shale, grayish brown, some brownish gray to very dusky red, dark gray to dark greenish gray (silty to siltstone)
755	769	14	Siltstone, greenish gray to dark greenish gray shaly; some dark gray to dark greenish gray shale in the lower part
769	777	8	Siltstone, medium gray to greenish gray and medium dark gray, shaly in part at the top to a dark gray very silty shale at the bottom
777	784	7	No sample
784	809	25	Limestone, light olive gray to olive gray and medium dark gray, small amount of dark gray, dolomitic in part, fossiliferous (foraminifera)
809	821	12	Limestone, olive gray to medium dark gray, some light olive gray, somewhat argillaceous with some dark greenish gray, highly calcareous shale fossiliferous (foraminifera)
821	845	24	Limestone, olive gray to medium dark gray, some medium dark gray to dark greenish gray, argillaceous with some highly calcareous shale, somewhat fossiliferous (foraminifera)
845	852	7	Limestone to shale, brownish black to grayish black, somewhat fossiliferous (contains crinoid fragments), somewhat sandy in the lower part; limestone, olive gray to brownish gray, argillaceous
852	870	18	Limestone, olive gray to dark gray (somewhat argillaceous), highly oolitic, very sandy (very fine grained), very silty in the lower part with some greenish gray shale (highly calcareous), fossiliferous (crinoidal) in the upper part
870	877	7	Limestone-oolites, light olive gray, dolomitic in part; some olive gray to greenish gray, highly calcareous shale

877	893	16	Limestone, light olive gray to olive gray, oolitic, highly dolomitic; some olive gray to greenish gray calcareous shale
893	909	16	Limestone, brownish gray to brownish black, somewhat argillaceous, slightly silty; some brownish black to grayish black, highly argillaceous limestone at the bottom
909	925	16	Limestone, brownish black, some brownish gray, rare crinoid fragments; moderate amount of brownish black to grayish black limestone to shale
925	934	9	Limestone, brownish gray to medium gray, very silty, sandy (very fine grained), oolitic
934	946	12	Limestone, light olive gray to light brownish gray, oolitic, very sandy (very fine grained)
946	959	13	Limestone, light olive gray, to olive gray, dolomitic
959	975	16	Limestone, olive gray to brownish black, highly oolitic in part, silty in part, dolomitic in part; some brownish black to grayish black, very shaly limestone; large amount of medium dark gray to dark greenish gray siltstone in the lower part (calcareous)
975	985	10	Siltstone to shale, dark greenish gray to medium dark gray and dark gray, calcareous, dolomitic in part; some brownish gray to brownish black limestone-oolitic
985	1004	19	Limestone, olive gray to dark yellowish brown, dolomitic
1004	1012	8	Limestone, olive gray, oolitic, silty, very silty in part
1012	1030	18	Limestone, light olive gray to dark yellowish brown, somewhat dolomitic at the top to highly dolomitic at the bottom
<u>CATSKILL (HAMPSHIRE) 493 Feet.</u>			
1030	1037	7	Sandstone (silty, very fine grained) to siltstone and shale, medium to medium dark gray
1037	1050	13	Siltstone and some shale, medium dark to dark gray, and dark greenish gray
1050	1069	19	Shale and siltstone to sandstone (very fine grained), medium dark to dark gray, some dark greenish gray to greenish black; trace of dusky yellowish brown, sideritic shale
1069	1075	6	Sandstone, very light gray to light gray, some light greenish gray, very fine grained; some fine grains; some dark gray shale
1075	1089	14	Sandstone (very fine grained, some fine grains) to siltstone, light gray, medium gray with some dark gray (shaly), small amount of greenish gray to dark greenish gray, argillaceous; small amount of dark gray shale
1089	1103	14	Sandstone (very fine grained) to siltstone, medium to dark gray (highly argillaceous) some at the top and a large amount at the bottom of greenish gray to light olive gray (highly dolomitic and argillaceous)
1103-1195		19	(NOT DESCRIBED) 1103-1195

1295	1320	25	Sandstone, medium gray, very fine grained, argillaceous, very silty, dolomitic in part, contains a small amount of carbonaceous material
1320	1433	127	(NOT DESCRIBED) 1320-1433
1433	1439	6	Sandstone, light gray, light brownish gray to pale brown (argillaceous), small amount is dolomitic; some shale, medium dark to dark gray, some grayish brown, (silty)
1439	1444	5	Shale and siltstone, grayish red to grayish brown; some sandstone, light brownish gray to grayish brown, some greenish gray
1444	1461	17	Sandstone (very fine grained) to siltstone, very light to light gray, small amount of light brownish gray, slightly dolomitic
1461	1489	28	(NOT DESCRIBED) 1461-1489
1489	1500	11	Sandstone, light gray to light greenish gray, very fine grained, small amount is dolomitic
1500	1512	12	Shale to siltstone, grayish brown to dusky brown, small amount of greenish gray, sandy in part
1512	1523	11	Siltstone and shale, medium dark gray to dark greenish gray, some grayish brown; some medium dark to dark gray shale
<u>CHEMUNG FORMATION, 189, plus, FEET.</u>			
1523	1562	39	Sandstone, medium dark gray, some dark gray, carbonaceous, micaceous, small amount is dolomitic in the lower part
1562	1585	23	Sandstone, medium gray, very fine grained, somewhat carbonaceous, micaceous, somewhat dolomitic
1585	1612	27	Sandstone, medium gray, very fine grained,
1585	1612	27	(NOT DESCRIBED) 1585-1612
1612	1633	21	Sandstone, medium dark gray, very fine grained, moderately carbonaceous, contains some mica and kaolinite
1633	1645	12	Sandstone (very fine grained) to siltstone, medium gray, contains some carbonaceous material and a little mica
1645	1676	21	(NOT DESCRIBED) 1645-1676
1676	1687	11	Sandstone, mottled very light gray and medium light gray, fine to coarse grained with some very fine grained to silt (coarse) matrix, slightly dolomitic, (FIFTH of the Goff-Arnold No. 1 well)
1687	1702	15	Shale, dark gray; some medium dark to dark gray siltstone
1702	1707	5	Sandstone, medium gray, medium to coarse grained at the top, fine to coarse grained in the lower part; moderate amount of medium dark gray to medium gray and greenish gray siltstone
1707	1712	5	Sandstone, very light to light gray, medium to coarse grained, rounded, some very fine sand and a little coarse silt, very small amount of carbonaceous material

1714

Total depth