

By Blaho Oil and Gas Co. (Agent), Uniontown, Pa.
 Sage Quadrangle - SE
 Middle Fork District, Randolph County, W. Va.
 Located .23 mi. S. of 38° 50' and 4.4 mi. W. of Long. 80° 00'.
 Elevation 2062.0 L.
 Permit Ran-6.

POTTSVILLE FORMATION, 173, plus, FEET

Top	Bottom	Thickness	
0	20	20	Siltstone to sandstone (very fine), medium to dark gray, shaly, contains some carbonaceous material, a large part of this material is dark yellowish brown (weathered iron oxides)
20	29	9	NO SAMPLE
29	50	21	Sandstone, very light gray, conglomeratic, fine to very coarse grained, some granules, contains a small amount of chlorite and carbonaceous material, the large grains are rounded
50	63	13	Sandstone, very light gray, fine to medium grained, some coarse grains, subangular to subrounded, many grains show secondary crystal facets, slightly sideritic in part
63	70	7	Sandstone, light brownish gray, medium to very coarse grained, subrounded, some of the grains show secondary crystal facets, a moderate amount of sideritic cement
70	81	11	Sandstone, very light gray, very fine to fine grained, subrounded with many secondary crystalline facets
81	95	14	Sandstone, very light gray, with dusky yellowish brown spots, conglomeratic, fine to medium grained, with coarse grains to granules, subrounded, with secondary crystal facets
95	152	57	Sandstone, light gray, very fine to fine grained, some medium to coarse grains, somewhat chloritic, contains some mica and a little carbonaceous material; a moderate amount of dark to dusky yellowish brown, shaly siderite and some medium dark gray shale in the upper part
152	173	21	Sandstone (very fine) to siltstone, medium dark gray to dark greenish gray, chloritic, contains grains of red and green shale, dolomitic; some dark greenish gray to medium dark and dark gray shale
MAUCH CHUNK FORMATION, 458 Feet.			
173	180	7	Shale, dark greenish gray to medium dark gray, some brownish gray, very silty in part; a moderate amount of very dusky red shale
180	210	30	Shale, very dusky red
210	210 320	110	Not described

320	330	10	Siltstone, dark greenish gray, chloritic, highly calcareous
330	349	19	Sandstone, light gray to light greenish gray, very fine grained, somewhat chloritic, somewhat calcareous
349	370	21	Siltstone to sandstone (very fine), dark greenish gray to medium dark and dark gray, chloritic, contains some mica and carbonaceous material, slightly calcareous
370	392	22	Sandstone, light gray to light greenish gray, some dark gray (greenish) at the bottom, slightly calcareous, with a little gray limestone at the bottom; very fine grained
392	481	89	Not described
481	500	19	Sandstone (very fine) to siltstone, medium dark gray to dark greenish gray, carbonaceous, chloritic, very slightly calcareous
500	524	24	Sandstone, light olive gray, very fine grained, silty, slightly calcareous, contains some mica and some carbonaceous material, and some chlorite
524	549	25	Not described
549	570	21	Shale, dark gray to grayish black, calcareous, with highly fossiliferous limestone nodules
570	594	24	Limestone (argillaceous) to shale (very highly calcareous), medium dark to dark gray, very highly fossiliferous (Little Lime)
594	605	11	Shale, grayish brown, some very dusky red, a large amount of medium dark to dark gray (with greenish cast) --- Pen-off save
605	622	17	Sandstone, very fine to siltstone, very light to light gray and greenish gray (Maxton Sand)
622	631	9	Shale, dark gray to grayish black
631	643	12	Limestone (highly argillaceous) to shale (very highly calcareous), dark gray to grayish black, highly fossiliferous; some brownish black limestone at the top <i>GREEN BRIER LIMESTONE, 244 FEET-</i>
			<i>GREEN BRIER LIMESTONE, 244 FEET.</i>
643	653	10	Limestone-oolite, olive gray to dark gray
653	745	92	Not described
745	767	22	Limestone, olive gray to dark gray, very sandy to a highly calcareous and very fine sandstone, argillaceous
767	777	10	Shale, very dusky red to grayish brown, sandy in the lower part (a large part of the sand grains are limestone-oolites); some dark greenish gray siltstone and shale
777	792	15	Shale, very dusky red to grayish brown, somewhat sandy sandy (limestone and quartz sand), sandstone, light olive gray to olive gray and dark greenish gray, very fine very highly calcareous to a sandy limestone (somewhat argillaceous)

792	816	24	Limestone-oolite, pale to dark yellowish brown, silty, somewhat sandy (very fine); some dark greenish gray, silty and calcareous shale at the top
816	857	41	Not described
857	875	18	Limestone, pale to dark yellowish brown, sandy (very fine to fine grained, some medium to coarse, and a few quartz pebbles), highly dolomitic at the bottom
HAMPSHIRE FORMATION, 569 FEET.			
875	891	16	Sandstone, dark gray (carbonaceous) and greenish gray to dark greenish gray (somewhat chloritic), very fine grained, some fine to medium grains
891	912	21	Siltstone and shale, dark greenish gray, highly chloritic, micaceous; a little dark yellowish brown dolomite in the lower part; small amount of very dusky red shale
912	932	20	Sandstone (very fine) to siltstone, dark greenish gray, with some very dusky red shale, detritus, chloritic, somewhat micaceous and kaolinitic, small amount is dolomitic; small amount of very dusky red shale, silty
932	939	7	Shale and some siltstone, dark gray; a very small amount of dark yellowish brown, sandy dolomite
939	972	33	Siltstone (sandy, very fine) and shale, dark greenish gray to medium dark gray, some very dusky red; small amount of greenish gray, silty and sandy, dolomitic shale (a large amount of cavings in the upper part)
972	983	11	Sandstone, light gray to greenish gray, some dark greenish gray, very fine grained, silty, argillaceous in part, dolomitic in part; small amount of very dusky red to black, rounded, sandy siltstone and shale
983	1001	18	Siltstone and shale to sandstone (very fine), medium to dark gray and dark greenish gray, grayish red to brownish gray, small amount is dolomitic
1001	1037	36	Siltstone and shale, medium dark gray, some greenish gray to dark greenish gray and medium dark gray, some brownish gray to grayish brown, contains highly carbonaceous and pyritic streak, somewhat dolomitic
1037	1039	2	No sample
1039	1060	21	Shale, very dusky red to grayish brown, silty and sandy (very fine) in part; shale to sandstone (highly argillaceous) dark greenish gray, dolomitic in part; some medium dark to dark gray shale
1060	1078	18	Shale (silty and sandy in part) to a silty, argillaceous, sandstone, grayish red to very dusky red, a moderate amount of greenish gray to dark greenish gray, some medium dark to dark gray; a large amount of light gray to greenish gray, very fine sandstone in the lower part
1078	1091	13	Shale, dark greenish gray, some medium dark to dark gray, silty and very sandy (very fine) in part; shale, very dusky red to grayish brown, very silty in part
1091	1117	26	Shale, very dusky red to grayish brown, very silty; a moderate amount of sandy and silty dark greenish gray shale
1117	1141	24	Siltstone and shale, medium dark gray (with greenish cast), very dusky red to grayish brown, mostly gray in the upper part, mostly red in the lower part

1141	1157	16	Siltstone to sandstone (very fine), medium to medium dark gray, somewhat dolomitic; a large amount of dark gray, somewhat carbonaceous, and somewhat micaceous siltstone in the upper part
1157	1173	16	Siltstone and shale to sandstone (very fine), medium to medium dark gray, somewhat pyritic in the upper part, small amount is highly dolomitic in the lower part
1173	1200	27	Siltstone and shale (in the upper part) to sandstone (very fine, very silty in the lower part), light to medium gray, some medium dark gray; small amount of dark yellowish brown highly dolomitic shale
1200	1262	62	Shale, very dusky red; siltstone, dusky brown; some dark greenish gray siltstone and shale, sandy (very fine and a small amount of sandstone) in the lower part
1262	1277	15	Shale, grayish red to very dusky red
1277	1285	8	Siltstone, light gray to medium dark gray, some light olive gray to greenish gray (highly dolomitic)
1285	1295	10	Shale, very dusky red to grayish brown; some dark greenish gray to medium dark gray siltstone
1295	1314	19	Sandstone, pale brown, very fine grained. contains much red shale, detritus, somewhat chloritic, micaceous, and kaolinitic
1314	1324	10	Shale, very dusky red to dusky brown, very silty in part
1324	1339	15	Sandstone, light gray, very fine to fine grained, somewhat chloritic, contains some mica and kaolinite and some red shale, detritus
1339	1350	11	Shale and siltstone, very dusky red to dusky brown, some dark greenish gray to medium dark gray
1350	1374	24	Siltstone to sandstone (very fine), dusky brown to brownish gray, chloritic, micaceous; some grayish red to grayish brown shale; some dark greenish gray to medium dark gray siltstone and shale
1374	1378	4	Shale and siltstone, medium dark gray to dark greenish gray, very sandy in part with some very fine sandstone
1378	1415	37	Sandstone, light to medium gray, some greenish gray, in the lower part, very fine grained, somewhat chloritic and micaceous, contains some shale, detritus
1415	1428	13	Shale, very dusky red, some medium dark to dark gray; some dark greenish gray to medium dark gray, silty and sandy shale
1428	1444	16	Sandstone, light to medium gray, with dark gray spots, some greenish gray to brownish gray, very fine to fine grained, chloritic; a very large amount of very dusky red to grayish brown and medium dark to dark gray shale
CHEMUNG FORMATION, 319, plus, FEET			
1444	1457	13	Sandstone, medium dark gray, very fine, very silty, moderately carbonaceous
1457	1473	16	Siltstone to sandstone (very fine), medium dark to dark gray, some grayish black, with black (carbonaceous) streak, highly argillaceous in part
1473	1500	27	Sandstone, medium to dark gray (argillaceous, somewhat carbonaceous) and very fine grained at the top, medium gray (slightly to somewhat carbonaceous) and very fine to fine grained in the middle part, light to medium gray, (slightly carbonaceous and somewhat sandy argillaceous) and very fine to fine grained at the bottom

1500	1513	13	Sandstone, light to very light gray, very fine to fine grained, some medium grains in the upper part, some medium to coarse grains in the middle part and lower part, large grains are rounded; some soft, medium dark to dark gray shale at the bottom
1513	1525	12	Sandstone, very light gray in the upper part to light gray in the lower part, conglomeratic, fine to coarse grained with some granules and pebbles in the upper part, very fine grained and silty, with some very coarse grains and granules in the lower part
1525	1551	26	Shale and siltstone, dark gray
1551	1567	16	Sandstone, light gray, very fine grained with medium to coarse grains at the top, very coarse grains to pebbles at 1552-58, very fine grained with some medium grains to pebbles at 1558-67
1567	1576	9	Sandstone, light gray, very fine grained, very silty, very slightly calcareous
1576	1600	24	Sandstone, light to medium gray, very silty, very fine grained; a very large amount of medium dark to dark gray shale (cavings?)
1600	1615	15	Shale and some siltstone, dark gray
1615	1632	217	Siltstone to shale and sandstone (very fine), medium dark to dark gray, a few scattered quartz granules and pebbles at the bottom
1632	1672	40	Shale, medium dark to dark gray; siltstone, medium dark gray to dark greenish gray, mostly medium dark gray in the lower part
1672	1675	3	Siltstone to very fine sandstone, medium dark gray to dark greenish gray, a moderate amount of dark gray to grayish black (carbonaceous); some medium dark to dark gray shale
1675	1682	7	Sandstone, brownish gray to dark gray; highly carbonaceous, silty, somewhat dolomitic
1682	1700	18	Shale and siltstone, medium dark to dark gray
1700	1725	25	Shale and some siltstone, medium dark to dark gray; a very large amount of siltstone to very fine sandstone, medium to medium dark gray, a moderate amount of dark gray in the middle part
1725	1738	13	Sandstone, dark gray to brownish gray, very fine, very silty, carbonaceous; a large amount of shale and siltstone, medium dark to dark gray
1738	1752	14	Sandstone, light to medium gray, very fine very silty, contains dark gray (carbonaceous) spots; shale and siltstone, medium dark to dark gray
1752	1758	6	Sandstone (very fine) to siltstone, dark gray to brownish gray, carbonaceous, contains dolomitized crinoid stem fragments; shale and siltstone, medium dark to dark gray
1758	1763	5	Shale and siltstone, medium dark to dark gray
	1763		TOTAL DEPTH