TUCKER COUNTY COURT No. 1

By Natural Resources Corporation, P. O. Box 612, Morgantown, W. Va. Located 1.26 Mi. S. of 39° 10' Lat. and 4.34 Mi. W. of 79° 39" Long. Parsons Quadrangle - C St. George District, Tucker County, W. Va. Elevation 1586'. Permit Tuc-8. Section based on samples from 0-49931; examined by Russell R. Flowers. Bottom Thickness Top 10 25 15 Siltstone and some shale, medium dark gray, some medium dark gray to olive black, some medium gray 25 120 95 Siltstone, dark gray and brownish gray to grayish black shale; siltstone, medium dark gray with greenish olive casts, shaly in part; some Calcified fossil fragments (brackopeds and rare gastropods) 120 161 Siltstone, brownish gray to dark gray, argilla-41 ceous; some medium dark gray siltstone, shaly 161 190 29 Siltstone, medium dark to dark gray with olive gray and greenish gray casts, shaly in part 190 220 Siltstone and some silty shale, medium to medium 30 dark gray, highly calcareous in the upper part, moderately calcareous in the lower part; most of the calcareous material is fossil fragments 220 241 21 Siltstone and some shale, medium dark gray, many calcified fossil fragments 241 255 Sandstone (very fine) to siltstone, medium to 14 medium dark gray, some clive gray, highly cal-Careous 255 315 60 Siltstone, medium dark gray with greenish cast; some shale, medium dark to dark gray 315 355 40 Siltstone, medium Cark gray, some medium dark gray to dark gray, somewhat calcareous, shaly in part, some calcified fossil fragments 355 400 45 Siltstone and silty shale, dark gray to brownish gray and brownish black, some calcified flossil fragments; siltstone and shale, medium Cark to dark gray; mostly medium dark to dark gray shale and siltstone from 384-390 400 420 20 Siltstone and shale, medium dark to dark gray; some madium light to medium gray siltstone, somewhat dolomitic 420 488 Siltstone, medium to medium dark gray and shale, medium dark to dark gray, from 450- 3 siltstone, medium to medium dark gray with some grayish black 68 streaks and some calcified fossil fragments 488 515 37 Siltstone and shale, medium to medium dark gray, some dark gray, small amount is slightly calcareous and somewhat dolomitic 515 526 11 Siltstone and shale, dark gray; siltstone and some shale, medium dark to dark gray; some medium gray, slightly dolomitic siltstone in the upper part

526	569	43	Siltstone and shale, medium dark gray, medium dark to medium gray with greenish cast in the lower part, some dark gray siltstone and shale
569	588	19	Shale and siltstone, medium dark to dark gray, some medium gray (highly calcareous with fossil fragments)
588	600	12	Siltstone and shale, medium dark to dark gray
600	647	47	Siltstone, medium dark gray; siltstone and shale, medium dark gray to dark gray; some calcified fossil fragments in the lower part
647	674	27	Siltstone, medium to medium dark gray, some dark gray, contains many calcified fossil fragments; a large amount of medium dark to dark gray shale in the lower part
674	682	8	Shale, dark gray; some medium dark gray to dark gray siltstone and shale
682	700	18	Siltstone and shale, medium dark to dark gray; some dark gray shale; an occasional calcified fossil fragment
700	715	15	Siltstone, medium to medium dark gray some dark gray shale
715	722	7	Siltstone, medium to medium dark gray, some dark gray to brownish black, silty shale
722	735	13	Siltstone and shale, medium gray to dark gray; small amount dark yellowish brown shale
735	775	40	Siltatone and shale, medium dark to dark gray, a large amount of medium dark gray in the lower part
775	795	20	Siltstone, medium to medium dark gray; some medium dark gray to grayish black shale and silt- stone
795	805	Ŋ	No sample
8 05	835	30	Siltstone, medium to medium dark gray; some medium dark to dark gray shale, a large amount at the bot- tom
835	875	40	Siltstone, medium to medium dark gray with grayish black shaly streak and some calcified fossil fragments; some medium dark to dark gray shale
8 75	885	10	No sample
88 5	905	20	Siltstone and shale, brownish gray to brownish black interbedded with medium dark gray siltstone and shale, some calcified fossil fragments in the lower part
905	915	10	Siltstone and shale, dark gray, some medium to medium dark gray
915	955	40	Shale, medium dark to dark gray, silty; siltstone, medium to medium dark gray
955	975	20	Siltstone, medium dark gray, some dark gray to brownish gray and brownish black; some mediummi dark to dark gray shale
975	995	20	Siltatone, brownish gray to brownish black and grayish black, argillaceous, interbedded with medium dark to dark gray shale and some siltstone

995	10 15	20	Siltstone, brownish gray to brownish black and grayish black, argillaceous, interbedded with medium dark to dark gray shale and siltstone
1015	1055	40	Shale, medium dark gray to dark gray, interbedded with siltstone, medium dark gray with a greenish gray and clive gray cast, some calcified fossil fragments; small amount of brownish gray to brownish black and grayish black, silty shale at the top and bottom
105 5	1075	20	Siltstone and shale, medium dark gray, some med- ium to medium dark gray, moderate amount of shale, dark gray to brownish black and grayish black, silty
1075	1125	50	Siltstone, medium dark to medium gray with olive gray cast; a moderate to large amount of make, medium dark to dark gray and some grayish black shale
1125	1215	90	Shale, medium dark to dark gray with moderate to large amount of interbedded medium dark gray siltstone with olive gray cast and rare calcified fossil fragments
1215	1235	20	Siltstone, medium to medium dark gray, slightly dolomitic; some medium dark to dark gray shale
1235	1255	20	Siltstone, medium dark gray with olive gray cast; shale, medium dark to dark gray (somewhat dis- colored with heat?)
1255	1275	20	Siltstone and shale, medium dark to dark gray (most of the sample is discolored by excessive heat when drying)
1275	1342	67	Siltstone, medium dark gray; moderate to large amount of moderate dark gray to grayish black shale interbedded with wiltstone
1342	1407	6 5	Shale, medium dark gray and medium dark to dark gray; siltstone, medium dark gray with olive gray cast; mostly shale in the upper part and at the bottom
1407	1430	23	Siltstone, medium to medium dark gray; some medium dark to dark gray shale
1430	1485	55	Siltstone, medium dark gray; shale, medium to dark gray
1485	1510	25	Siltstone, medium dark gray with a very small amount of white calcite; some medium dark to dark gray shale
1510	1610	100	Shale, medium dark gray to dark gray; some medium dark gray siltstone; a large amount of siltstone fra from 1530-37 and 1549-62
1610	1655	45	Shale and siltstone, medium dark to dark gray, a large amount of dark gray at the top
1655	1714	59	Shale, medium dark to dark gray, some dark gray in the lower part; some medium dark gray siltstone
1714	1755	41	Shale and siltstone, medium dark to dark gray, some dark gray to black; some medium dark gray siltstone with olive gray cast
1755	1782	27	Shale, dark gray, some dark gray to grayish black; some medium to medium dark gray siltstone in the upper part

Siltstone, brownish black to grayish black, very shaly; a large amount of medium dark to dark gray shale 1790 8 1782 Shale, dark gray and medium dark to dark gray; manuscuttur 1790 1806 16 darkageageagead a moderate amount of brownish black to grayish black siltstone Shale, medium dark gray, somes dark gray; some medium dark gray to light gray siltstone 1806 1827 21 Shale, dark gray; shale and some siltstone, medium dark to dark gray; some dark gray to grayish black shale at the 1827 1860 33 bottom 1860 1890 30 Shalem medium dark to dark gray, small amount of dark gray to grayish black; some medium dark gray to olive gray siltstone Shale, medium dark to dark gray, small amount of grayish black to dark gray; siltstone, medium dark gray with green 1890 1930 40 and olive casts Shale, medium dark to dark gray, interbedded with some olive gray to medium dark gray and dark gray siltstone 1930 1966 36 Siltstone, medium dark to dark gray, some medium to medium 1966 1992 26 dark gray, interbedded with some medium dark to dark gray shale Siltstone and shalo, medium dark to dark gray 1992 2047 55 2065 2047 Siltstone, medium dark to dark gray; some medium dark to 18 dark gray shale Siltstone to shale, medium dark to dark gray 2065 2249 184 2249 2265 Siltstone, medium dark to dark gray; some medium dark to 16 dark gray shale 2265 2272 7 Siltstone, dark gray, shaley Siltstone, medium dark gray; some medium dark to dark gray; a large amount of medium dark to dark gray shale in the lower 2272 2284 12 part 2284 2305 21 Shale and siltstone, medium dark to dark gray, mostly medium dark gray siltstone in the lower part 2305 2315 10 Siltstone andnshale, medium dark to dark gray with grayish black (carbonaceous) streaks, rare calcified fossiliferous fragments 2315 2374 59 Shale interbedded with siltstone, medium dark to dark gray Siltstone, medium dark gray, moderate amount of dark gray shaly; a moderate amount of medium dark gray to dark gray 2374 2423 49 shale in the upper and lower part 2423 2464 41 Shale and siltstone, medium dark to dark gray, and mostly shale from 2440 to 2450 2499 24642422 35 Shale and some siltstone, medium dark to dark gray, a large amount of siltstone in the upper part Siltstone (coarse) to sandstone (very fine grained), light 2499 2506 7 to medium gray, moderately dolomitic

2506	2516	10	Shale, dark gray, very silty
2516	2531	. 15	Siltstone, (coarse), medium gray, some medium to medium dark gray, slightly dolomitie
2531	2564	33	Shale and siltstone, medium dark to dark gray, some dark gray, in the upper part
25 64	2601	37	Siltstone, medium to medium dark gray, medium gray and coarse in the lower part; a moderate amount of medium dark to dark gray shale
2601	2 615	14	Shale, dark gray, silty
261 5	266 6	51	Siltstone, medium to medium dark gray, some dark gray in the moper part, small amount is dolomite; some shale, dark gray and medium dark to dark gray
2666	2685	19	Shale to siltstone, medium dark to dark gray
268 5	2703	19	Siltstone, medium dark gray; some medium dark gray to dark gray shale
2703	2744	41	Siltstone, medium to medium dark gray; some medium dark to dark gray shale; a large amount of medium dark to dark gray and some grayish black shale in the lower part
2744	2765	21	some Siltstone and/shale, medium dark to dark gray
2765	277 6	11	Siltatone, medium dark to medium gray, small amount is dolo- mite, interbedded with a large amount of medium dark to dark gray shale; some dark gray to grayish black shale; some dark gray to grayish black shale in the lower part
27 76	27 84	1 8	Shale, dark gray, some medium dark to dark gray; some medium dark gray to olive gray, highly dolomitic siltstone
2784	282 0	36	Shale, medium dark to dark gray, some dark gray; a large amount of medium dark gray siltstone in the lower part
			GENESEE (HARRELL)? Feet
2820	28 73	53	Shale, grayish black and dark gray to grayish black, interbedded with medium dark to dark gray shale, mostly dark gray to grayish black in the lower part
28 73	2 941	68	Shale, grayish black, a large amount of dark gray to grayish black in the upper part, contains very small amount of calcite
2941	2982	41	Shale, dark gray to grayish black with a very small amount of calcite
2982	2 997	15	Shale, grayish black, some grayish black to black (car- bonaceous)
2997 <u>-</u>	3141 111	144	Shale, dark gray to grayish black, some medium dark to dark gray
314 1	3191	50	Shale, dark gray, interbedded with medium dark to dark gray, contains a very small amount of calcified fossil fragments
3191	3301	110	Shale, dark gray and dark gray to grayish black; some med- ium dark to dark gray
3301	3335	34	Shale, grayish black, some dark gray to grayish black, silty; some medium dark to dark gray siltstone and shale in the lower part
3335	3353	18	Shale, dark gray, a moderate amount of medium dark to dark gray, some grayish black at the top and bottom
33 53	3 84 4	491	Shale, dark gray to greenish black with small amount of

53 3844 491 Shale, dark gray to greenish black with small amount of medium dark to dark gray and brownish gray siltstone in the upper part, mostly grayish black in the lower part

3844	392 8	84	Shale, dark gray to grayish black, mostly grayish black in the lower part
3928	3 9 56	28	Shale, grayish black
3956	398 1	25	Shale, dark gray to grayish black
3981	4 00 3	22	Shale, dark gray, some dark gray to grayish black; trace of calcite
4003	403 5	32	Shale, dark gray to grayish black
4035	4061	26	Shale, dark gray, some grayish black, a large amount of medium gray dark to dark gray; some medium dark gray silt- stone in the lower part
4061	408 7	2 6	Shale and some siltstone, medium dark to dark gray, some interbedded dark gray to grayish black shale
4 08 7	4098	11	Shale, dark gray, some medium dark to dark gray(shale and siltstone), some dark gray to grayish black
40 9 8	4167	6 9	Shale, dark gray, some interbedded dark gray to grayish black; some medium dark gray, somewhat dolomitic siltstone; small amount of calcite (fossil fragments?)
4167	4 1 8 8	21	Shale, dark gray to grayish black, much is silty and dolomitic in part with small amount of dolomite; a large amount of dark gray and some medium dark to dark gray (silty) shale
4188	4203	15	Shale, grayish black, interbedded with dark gray to medium dark gray shales and some siltstone
420 3	4267	6 <u>4</u>	Shale, grayish black; some olive gray to dark gray shale and siltstone, most of the samples contain a small amount of calcite
4267	4355	88	Shale, dark gray to grayish black, interbedded with medium dark to dark gray shale to fine siltstone, some of the sam- ples contain a small amount of calcite
4355	4390	35	Shale to fine siltstone, medium dark to dark gray; some dark gray to grayish black shale
4390	4407	17	Sha le, dark gray to grayish black, silty, dolomitic in part; some medium to medium dark gray, dolomitic siltstone
440 7	4450	43	Shale, medium dark to dark gray with some siltstone, moderate dark gray; some dark gray to grayish black shale
4450	449 0	40	Shale, dark gray to grayish black; a moderate to large amount of medium dark to dark gray shale
4490	4528	38	Shale, medium dark gray to dark gray with some grayish black; a moderate amount of grayish black shale at the top; a very small amount of calcite
45 28	45 56	28	Shale, dark gray
4556	4630	74	Shale, dark gray to grayish black, a moderate amount of grayish black at the bottom, very silty
4630	4643	13	Shale, medium to dark gray, some dark gray to grayish black in the lower part
46 43	4673	3 0	Shale, dark gray; very small amount of white vein calcite in the middle and lower part
4673	4711	38	Shale, medium dark to dark gray, some dark gray to grayish black from 4692-4700; small amount of white to clear calcite at the top

- 4711 4747 36 Shale, dark gray, some dark gray to grayish black; a very small amount of white vein calcite at the top and at 4735-39
- 4747 4860 113 Shale, grayish black to black, calcareous with small amount of vein calcite, slightly pyritic, carbonaceous
- 4860 4930 70 Shale, grayish black to black, carbonaceous, somewhat pyritic calcite at the bottom; a large amount of grayish bla_ck shale at the bottom
- 4930 4941 11 Shale, black, highly carbonaceous, somewhat pyritic, calcareous in part, coaly and many of the pieces show slickensides

TULLY LIMESTONE, 55 FEET

- 4941 4953 12 Limestone, olive gray to brownish black, argillaceous, somewhat fossiliferoums very fine to extremely fine crystalline; a large amount of black slickensided shale; small amount of pyrite 4971 18
- 4953 Shale, grayish black to black, carbonaceous; calcareous in part; many of the shale pieces are slickensided; some limestone as above
- 4971 4988 17 Limestone, olive gray to brownish black, argillaceous, pyritic in part, very fine to extremely fine crystalline; a moderate amount of grayish black to black carbonaceous shale, calcareous in part

HAMILTON AND MARGELLUS SHALES 246 Feet

4988 4995 12

Shale, brownish black to grayish black, highly calcareous, pyritic in part, some graying block, non colcaneous, Male at the bottom

AUG 2 6 1954

5000	5017	17	Shale, dark gray to grayish black, somewhat pyritic, very small amount of calcite
5 017	5206	189	Shale, grayish black, moderately carbonaceous, small amount is calcareous
5206	5265	59	Shale, grayish black to black, carbonaceous, some of the cuttings have slickensides
526 5	5290	25	Shale, grayish black to black, anternanzianian the lower part, carbonaceous, somewhat pyritic
5290	5303	13 6	Shale, dark gray, calcareous at the top to highly cal- careous in the lower part
5303	5334	31	Shale, grayish black to black, highly carbonaceous, calcareous, pyritic
5 334			ONONDAGA AND HUNTERSVILLE CHERT, 218 FEET.
5 33 4	53 44	IJ	Metabentonite, brownish gray to dark yellowish brown, pyritic; shale grayish black to black, highly calcareous, pyritic
5344	5359	15	Shale, grayish black, highly calcareous, with some impure limestone; a large amount of metabentonite at the top and some in the middle and lower part, somewhat pyrific
5359	5371	12	Shale, grayish black, highly calcareous, somewhat pyritic
 5371	5375	4	Chert, light to dark gray (shal y) and some dark gray, silicified siltstone, calcaredus, somewhat dolomitic; shale, dark gray to grayish black, moderately pyritic, glauconitic in part, calcareous
 5375	538 5	10	Chert, mottled light to medium gray, (translucent) and dark gray to grayish block (Applicatent), calcareous, dolo- mitic in the lower part, spicular
5385	5 396	11	Chert, mottled light to medium gray (transparent to translucent), with some dark gray (argillaceous) and moderate to large amount of dark gray to grayish black (argillaceous) from 5390 to 5393, somewhat calcareous, dolomitie at the top
5396	5 405	9	Chert, very light to medium gray (transparent) with small amount of dark gray to grayish black (argillaceous), somewhat calcareous in the upper part, slightly dolo- mitic, spicular to white are
 5 405	5415	10	Chert, with some with milky tars to be derk gray to grayish black (argillaceous), slightly dolomitic, highly spicular
5415	5430	15	Chert, transparent to milky, mottled with some dark gray to grayish black (argillaceous), very slightly dolemitic, highly spicular
5630	5435	5	Chert, transparent to milky, mottled with dark gray to grayish black (argillaceous), highly spicular, very slightly dolomitic
 5435	5 455	2 0	Chest, medium (translucent) to medium dark gray and Addiff gray to grayish black (argillaceous to shaly), small amount is dolomitic

5455 5480 25 Chert, medium dark to dark gray (argillaceous) grayish black, silicified shale	to
5480 5500 20 Chert (highly argillaceous) to shale(silicified grayish black with some light to dark gray in the upper part), 10
5500 5520 20 Shale, grayish bkack , highly silicified, smal amount is pyritic	1
5520 5544 24 Shale, grayish black, large amount of dark gra the lower part, silicified in part, pyritic (ver finely disseminated)	iy in 'Y
5544 5552 8 Shale, dark gray to grayish black, calcareous; of light gray transparent chert	; trace
ORISKANY SANDSTONE, 78, plus, FEET	
5552 5570 18 Sandstone, light to medium gray, very fine gra some fine to medium (rounded) grains, very high calcareous, small amount of interstitial (argil) material, silty	L y
5570 5575 5 Sandstone, light gray, very fine to fine grain some fine to medium grained, large grains rounde some dark shaly material, somewhat silty, calcar	ed,
5575 5580 5 Sandstone (very fine grained) to siltstone, (c medium gray, Spinkly fine to medium (rounded), highly calcareous, argillaceous	grains,
5580 5585 5 Sandstone, light to medium gray, very fine to grained with coarse silt and some medium (rounde sand grains, highly calcareous, contains some date (shaly) material	ed)
5585 5590 5 Sandstone, medium to dark gray, very fine grains, highly calcareous, argillaceous	ined, a)
5590 5595- 5 Sandstone, medium light gray, very fine to fir grained, some medium grains, very silty, highly careous, somewhat argillaceous; trace of chert	cale
5595 5605 10 Sandstone, light to medium gray, very fine gra some fine grains in the upper part, very silty i lower part; highly calcareous; trace of chert	lined, In the
5605 5625 25 Sandstone (very fine grained) to siltstone (constrained) to si	led)
5625 5630 5 Sandstone, medium gray, very fine to fine grai a few medium grains, silty, some argillaceous (d interstitial material, very highly calcareous	neđ, lark)