McD 31 22- 7-75

New River Pocahontas Coal Co. No. 6219 well

United Fuel Gas Co. Located 1,800 ft north of 37° 15'; 8,750 ft west of 81° 35'.

Elevation, ground, 1,627.16 ft. Total depth, 7,276 ft.

Drilling commenced Oct. 11, 1947; completed Jan. 19, 1949.

Coal at 2,017-2,020, 2,020-2,022, 2,022-2,030, 2,030-2,033, 6,018-6,028 ft.

USGS	CORI Rt 2,017-2,020, 2,020-2,022, 2,022-2,030, 2,000 2,000, 0,01	,	Depth to
13011	Formations	Thickness (fed)	base of formation (fect)
	Bluestone formation	635 +	692
	Princeton sandstone	49	741
	Hinton formation:		
	Hinton formation undivided	186	927
	Avis limestone of Reger.	50	977
	Hinton formation undivided.	573	1, 550
	Stony Gap sandstone member	105	1, 655
	Bluefield formation	600	2, 255
	Greenbrier limestone	960	3, 213
	Macerady shale	55	3, 270
	Pocono formation	414	3, 684
•	Big Stone Gap shale	160	3, 844
	Cheming and Brallier formations	1, 171	5, 015
	Miliboro shale of Butts (1940)	1, 382	6, 397
	Huntersville chert of Price (1929)	61	6, 458
	Ridgeley sandstone and Rocky Gap sandstone of Swartz (1929).		6, 517
	New Scotland limestone	64	6, 58 t
	Cayuga dolomite	442	7, 023
	Clinton formation.	245	7, 268
	Clinch sandstone		7, 276

Treck District, McDowell County, W. Va.
Ty United Fool Gas Co., Charleston, W. Va.
Located 5.55 miles S of 37 750 and 1.5 miles W. of 81° 35'.

Velch Quadrangle - SC. Elecation 1627.16: L.

Promit - 190 - 31 public to majored October 11, 1947; completed Jan. 19, 1949.

Well was not shot.

neg hole.

Solver 350', 1 BPH.
20" casing 30'; 16" casing 258'; 12%, 1155'; 10", 2460'; 7", 6426' all left in Section based on samples from 57' to 7276'; examined by Russell R. Flowers.

Toya	Pot tom	Thickness	Pottsville Formation, 42, plus, feet.
57	62	5	Shale, medium dark to dark-gray, soft, very ellty and sandy; a large amount of light-gray, fine to coarse sandstone, calcareous in part
62	7 2	10	Shale (very silty) to siltstone (shaly), medium dark to dark-gray, mostly olive-gray to medium dark gray with very fine sand in the upper part, soft
72	88	16	Sandstone, light-gray, very fine to medium-grained, some coarse grains, contains some chert (chalcodonic to dark-gray), calcareous; a large amount of modium dark to dark-gray, very silty, soft shale (some of this shale is included in the sandstone)
83	99	11	Shale (very silty) to siltstone (very shaly), mediumhark to dark-gray, sandy in part, somewhat calcareous; small amount of dark yellowish brown siderite
90	110	11	Mauch Chunk Series, 2480 Feet. Shale (silty) and some siltstone, dark greenish gray with clive-gray to dark yellowish brown, limeaton nodules and streaks
110	120	10	Sandstone, greenish-gray to dark greenish gray and medium-gray, chloritie, calcareous; some medium- to dark-gray shale
180	134	14	Sandstone, very light to light-gray and greenish-gray, very fine grained, calcareous, chloritic and micaceous
\$ 18.00 \$ 17.00	137	3	Shale, black (carbonaceous) and graylah-black to black, fossiliferous (ostracods), pyritic; a large amount of medium dark to dark-gray shitstone
137	144	7	Clay, olive-gray to medium dark gray, some grayish- brown, calcareous to highly calcareous with some light olive gray to olive-gray limestone; some medium dark to dark-gray siltstone in the lower part
1/4	150	6	Clay-shale, grayish-brown to very dusky red, silty; a large amount of medium- to medium dark gray, cal-careous siltstone to clive-gray limestone
1.50	160	10	Siltatone, dark greenish gray to medium dark gray, chloritic and micaceous, somewhat calcareous; some grayish-brown to brownish-gray (calcareous) shale with olive-gray limestone

· · · · · · · · · · · · · · · · · · ·	Commence of the state of the st
greenian-gray to medium dark gray,	
black (somewhalt carbonaceous) with	n some olive-gray to
oliva-black limestone nodules	•

-			olive-black limestone nodules
165	166	1	Clay-shale and shale, grayish-brown to dusky-brown, (calcareous), some dark-gray to grayish-black
166	169	3	Siltstone to sandstone (very fine), light-to medium- gray (with clive cast), highly calcareous
169	185	16	Saudstone, light-gray (with some medium-gray to olive-gray, shaly, silty streaks), fine-grained, subrounded to rounded, highly calcareous, shaly and silty; some medium dark gray, silty shale at the top; some medium dark gray to dark greenish gray, shaly, sandy siltstone at the bottom
185	187	2	Shale, grayish-red to, dusky-brown; shale and siltstone, medium dark to dark-gray
187	201	14	Sandstone, light- to medium light gray (with greenish cast), silty; some greenish-gray to medium dark gray siltstone and shale
20 1	209	8	Clay-shale, reddish-gray, dark greenish gray to medium dark gray, calcareous with limestone nodules
209	213	4	Shale, grayish-brown to dusky-red, silty; a large emount of greenish-gray shale and siltations in the lower part
213	216	3	Shale, very dusky red to dusky-brown, soft
216	223	7	Shale, very dusky red to dusky-brown and reddish-gray with varicolored limestone nodules; some greenish-gray siltstone and shale in the upper part to siltstone and very fine sandstone in the lower past
223	226	3	Shale, very dusky red to dusky-brown, some greenish- gray to dark greenish gray, silty, contains grayish-brown to greenish-gray limestone nodules
226	223	7	Siltatone, greenish-gray to medium-gray, calcareous
233	239	Ĝ	Shale, gradian-brown to very dusky red, some greenish- gray to madium dark gray in the upper part
239	245	6	Siltstone, greenish-gray to medium-gray, calcareous; some very dusky red to grayish-brown shale in the upper part
245	249	4	Sandstone, light-gray to greenish-gray, very fine grained, highly calcareous, chloritic
249	254	5	Siltstone, greenish-gray to medium-gray, micaceous, chloritic, calcareous, shaly at the bottom; a large amount of grayish-brown to, dusky-brown siltstone and shale, calcareous in part
254	258	4	Siltstone (shaly) to shale (very silty), medium dark gray to dark greenish gray, calcareous
250	267	9	Sandstone, greenish-gray and pale-brown to medium-gray, very fine grained, silty, chloritic, calcareous; a large amount of siltstone and shale, medium dark gray to dark greenish gray, some grayish-brown to brownish-gray
26 7	270	3	Shale, medium dark gray, very silty
27 ୦	274	4	Siltatone, medium to medium dark gray with greenish cast, highly micaceous, chloritic and somewhat calcareous

	j - 6"587# c	5	įλ \ ris (s.
137	70 po		5 Shale, medium to dark-gray
			6 No sample
2 8	34 293	• (Siltstone and shale (silty), olive-gray to medium- gray, some medium dark to dark-gray, calcareous in
20		18	Silt stone, and shale, medium to medium dark gray; some dark-gray to grayish-black shale, somewhat fossil-
308	च्या गाउँ वर्ष	4	
312	THE THE BUS	10	Shale and siltstone, dark-gray to grayish-black, cal-
10 / 10 kg	324	4.	Shale, darkwgray, black (highly carbonaceous), fossil-
7. C	330	4	Shale, dark-gray to grayish-black, silty, calcareons in
330	330	8	Shale, black (highly carbonaceous), dark-gray to mapple to careous careous
<i>5</i> 33	350	133	Clay, olive-gray to medium-gray, silty, highly calcoreous
350	363	13	Clay-shale, medium to medium dark gray, very highly fossiliferous (ostracods), highly calcareous
363	366	3	Shale, grayish-black to black, carbonaceous, fossilifer-
756	390	24	Siltatone, modium to medium dark gray (with shaly, carbonaceo: s specks and stroaks), calcareous in part; shale dark-gray to grayish black, somewhat pyritic
590	410	20	Shale, graylah-black to black, highly carbonaceous, calcareous; some medium dark gray siltations in the lower
復 O	426	16	Clay-shale, medium dark to dark-gray, very silty; come siltstone; contains many siderite spherulites; trace of
406	440	14	Siltstone, medium-gray to medium dark gray, some medium- gray to dark greenish gray, contains limestone modules and siderite spherulites; some grayish-black to black (car- bonaceous) shale with ostracods (440-458 depth correction)
458	515	77	Siltatone to shale, dark-gray to grayish-black
515	536	21	Shale, grayish-black, silty in part
556	611	75	No sample
611	614	3	Sandstone, very light gray, fine-grained, quartzose,
. 10 . 101	692	78	No sample
	696	4	Sandatone, light-gray, very fine to modium-grained, silty somewhat calcareous; some medium dark to dark-gray enable
	701	5	No sample
	705	4	Sandstone, very light to light-gray, very fine to medium grained, some coarse grains, subangular to subramaca

with the second	999 0	15	Sendatone (very fine) to siltatone, light- to medium- gray, some conglomerate at the top (very fine to coarse, some granular), somewhat calcareous, highly calcareous (with some medium- to dark-gray limestone) at the top
720	724		Sandstone, very light to light-gray, some medium-gray, wary fine to fine-grained, slightly calcareous
724	741	17	Candstone, very light to light-gray, conglomeratic; fine to very coarse grained, subangular to subrounded, contains limestone spots and nodules and some shale grains, calcareous; a large amount of dark-gray to grayish-black shale and some siltstone at the top
741	746	5	Shale, medium dark gray (silty) to dark-gray (with greenish cast), some grayish-black to black; small amount of dolomits and saindstone
700	751	5	No sample
751	761	10	Shale and siltstone, medium dark to dark-gray; some ablack and black, dark-gray (with greenish cast) to grayish-black and black, calcareous and dolomitic in part; a larger amount of the dark shale in the lower part
761	766	5	Shale, dark greenish gray to dark-gray (dolomitic, soft), medium dark to dark-gray, some grayish-black
766	770	4	Shale, dark greenish gray to dark-gray, some grayish- brown, dolomitic, soft
770	775	5	No sample
775	788	13	Siltatone, medium dark gray, some dark greenish gray, somewhat sideritic; shale and medium dark gray, somewhat sideritic
788	800	12	Siltatune, madium dark gray to dark greenish gray, sandy (very fine) in part; shale, dark-gray to grayish-black
800	824	24	Shale, dark gray to grayish-black, some grayish-black to black (carbonaceous), fossiliferous (ostracods), pytholin part; siltstone, medium to medium dark gray; highly calcareous
824	846	22	Shale, dark-gray and dark greenish gray to olive-black, calcareous and dolomitic; a large amount of dark-gray to grayish-black shale
846	863	17	Shale, dark greenish gray to olive-gray and dark-gray, highly dolomitic; siltatone, dark greenish gray to moditua dark gray (slightly dolomitic), some brownish-gray to grayish-brown
867	3 868	5	olive-gray and dark greenian gray
86	8 875	7	Siltatone, medium dark gray, some medium dark gray to dark greenish gray, calcareous and dolomitic; some dark-gray to grayish-black shale
87	5 903	5 28	No sample
Q::	3 918	12	dolomitic in part
91	15 92'	7 12	Shale, medium dark to dark-gray, calcarsons
99	2 7 9 5	5 28	Shale, medium dark to dark-gray with abundant limenton fossil fragments and highly fossiliferous limestone nodu or layers

\$100 mg	930	20	Shale (highly calcareous) to limendone (very shaly), dark-gray to olive-gray
980	889	8	Shalo, dark-gray, highly calcareous and fossiliferous; siltstone, dark greenish gray to olive-gray (calcareous); brownish-gray to dusky-brown
988	993	5	Siltatone and some shale, brownich-gray to grayish- brown, calcareous in part; some dark-gray, highly calcar- eous shale to very shaly limestone
993	1037	44	Shale, grayish-brown to dusky-brown, some grayish-brown to very dusky red, silty in part; some dark-gray, highly calcareous shale at the top
1037	1045	8	Siltstone, medium dark gray to brownish-gray; some grayish-brown to very dusky red shale
1045	10 58	13	Siltstone and shale, brownish-gray to dusky-brown, highle micaceous; some grayish-brown to very dusky red shale
1058	1070	12	Shale, very dusky red to grayish-brown, small amount of dark greenish gray to mediumgray, soft
1070	1106	36	Shale, grayish-brown to dusky-brown; some medium dark gray to dark greenish gray; some dark-gray to grayish-clack (in the lower part)
%10G	1136	30	Shale, very dusky red to grayish-brown, a large amount of very dusky red to brownish-gray at the bottom (highly calcareous)
1136	11.55	19	Siltatone, brownish-gray to brownish-black and dusky-brown; some shale, very dusky red to grayish-brown
1160	1162	7	Shalo, medium dark gray to dark greenish gray, dark- gray to grayish-black, some brownish-gray to grayish- brown (silty), highly calcareous
1167	1170	8	Shale, grayish-red to dusky-brown (silty), some dark-graj to grayish@black (calcareous)
.0170	1194	24	Shalle and slit atone, brownish-gray to dusky-brown, medium dark gray to dark greenish gray (sandy and highly calcareous in part), some dark-gray to graylah-black
1194	1210	16	Shale, olive-black to grayish-black, calcareous and dolomitic; some shale and silt stone, brownish-gray to grayish-brown, some dark greenish gray to medium dark gray
1210	1218	8	Siltstone, brownish-gray, very shaly
The Control of the Co	1228	10	Siltstone and shale, brownish-gray to grayish-brown and grayish-red, some dark greenish gray to grayish-black; some light olive gray, calcareous dolomite at the top and some light-gray to greenish-gray limestone at the better
1228	1234	6	Shale, brownish-gray to dusky-brown; some sandstone (very fine), brownish-gray to medium-gray to greenish-gray, highl micacoous, chloritic
1234	1255	19	Siltatone, brownish-gray, some olive-gray, very shaly, highly micaceous; some medium dark gray shale
1000	1267	14	Siltatone, brownish-gray, some brownish-black to during-brown, very shaly; some grayish-brown to graylah-god chale at the bottom
1267	1289	22	Siltstone and shale, brownish-gray to dusky-brown; some shale, dark greenish gray to dark-gray and grayish-black.

*:	1314	28	Siltatone and shale, brownish-gray to dusky-brown; some sandstone at the top, pale-brown to brownish-gray, very fine grained; small amount of dark greenish gray to gray-ish black shale
1314	1319	5	Shale, grayish-brown to dusky-brown, some medium dark gray to dark greenish gray
1319	1352	13	Shale and siltstone, grayish-brown to very dusky red, a large amount of dark greenish gray to dark-gray in the lower part, micaceous
My common or	1.032	20	Siltatone, brownish-gray, some brownish-gray to brownish-black, very shaly
1352	1378	26	Siltatone, dark groenish gray to medium dark gray, chboritic; a large amount of medium dark to dary-gray, silty micaceous shale
1378	1415	37	Sandstone, light-gray (with some medium-gray, very slity, shaly stroaks), very fine grained, some fine grains in the upper part, calcareous in part, contains many shale grains, somewhat chloritic
1415	1420	to gray.	Shale, dark greenish gray to medium dark gray, dark@grey ish-black, highly calcareous in part with a libtle shaly limestone, highly dolomitic in part; a large amount of pale-brown to very dusky red, shaly siltstone to saml-stone (very fine)
1409	1435	6	Siltatone, greenish-gray to olive-gray and medium dark gray, some brownish-gray and medium dark gray, some brownish-gray to very dusky red; some medium dark to gray-ish black shale, delomitie in part
1455	1442	7	Dolomite (very shaly) to shale, brownish-black to black
1442	1463	21	Siltstone, greenish-gray to brownish-gray, calcareous; shale, grayish-brown, dark greenish gray to medium dark gray, some dark gray to grayish-black, highly calcareous in part
1463	1469	6	Shalo and some siltatone, medium dark to dark-gray
1469	1475	6	Siltstone, medium dark gray; some dark-gray shale
1475	1480	5	Siltatone, olive-gray to brownish-gray and grayinh- brown; shale, medium-to dark-gray and grayish-black; some brownish-gray to brownish-black, calcareous dolomite
1490	1485	5	Shale, dark-gray to grayish-black, some grayish-black to black (carbonaceous)
1435	1495	10	Sandstone (very fine) to siltatone, greenish-gray to medium-gray, chloritic; some medium dark to dark-gray shale
1495	1509	14	Siltstone and some sandstone (very fine), greenish-gray to dark greenish gray, some medium dark gray; shale, medium dark to dark-gray, some grayish-black, some dark greenish gray, calcareous and delemitic in part
1,509	1527	16	Shale, dark-gray to grayish-black, highly calcaroous at the bottom; small amount of dusky yellowish brown siderite
1.626	1550	23	Siltatone, madium- to dark-gray, shaly; shale, madium dark gray to grayish-black; very silty
1550	1554	4	Siltstone to sandstone (very fine), light - to medium - gray (with dark-gray, silty shale streaks
			•

	1665	101	Sondstone, white to very light gray, very fine to fine-grained, quartzese, subrounded, mbmowhat delomitie, contains dark-gray to grayish-black (silty) shale breaks in the upper part, fine-grained 1571 to 1595, mostly very fine grained 25% from 1625 to bottom
1055	1660	5	Shale, dark-gray (with greenish cast), silty
1 66 0	1605	25	Siltatone and some sandatone (very fine), greenish-gray to medium-gray, some dark greenish gray to medium dark gray; some dark greenish gray to dark-gray shale; small amount of very dusky red siltatone to reddish-gray shale
1000	1692	7	Siltstone and shale, brownish-gray to dusky-brown, dark greenish gray to mark-gray, some dark-gray to grayish-black
1692	1696	6	Shale, medium dark to dark-gray, silty
1693	1728	27	Siltatone and shele, medium dark to dark-gray; a large amount of shale, dark-gray to grayish-black
1785	1760	35	Siltstone, dark-gray to grayish-black, some medium dark gray streaks, very shaly
1760	1776	18	Sandstone, light-gray, very fine grained, highly km lin- itic, a little chlorite and mica, slightly dolomitic; some dark-gray to grayish-black shale breaks
1770	1765	7	Clay-shale, dark-gray; some shale and siltatone, brownish- gray to grayish-brown, greenish-gray to medium dark gray (depth correction 1785 to 1771?)
1771	179/0	19	Shale, grayish-brown to very dusky red, dark greenish gray to dark-gray (shale in upper part but mostly silks tone in the lower part)
1790	1800	10	Clay-shalo and shalo, dark-gray with some dark groonish gray (dolomitio), a large amount of medium dark to dark-gray (highly dolomitic) in the lower part
1800	1820	20	Shale (highly delocatio) to delomite (very chaly), derk-gray to grayish-black, some medium dark-gray; some light-to medium-gray anhydrite
IOSO	1837	17	Shale, modium dark gray to dark greenish gray and dark-gray, dolomitic in part; some shaly dolomite as in the above interval
4937	1842	5	Shale, reddish-gray to grayish-brown, medium dark to dark-gray and dark greenish gray (dolomitic), some grayish-bla ck (shaly dolomito); some sandstone, light-gray to greenish-grazkam gray, very fine grained
1842	1854	12	Sandstone, greenish-gray, very fine to siltatone, medium dark gray; a large amount of shale, medium dark to dark-gray, some grayish-black, highly dolomitic in part
1904	1871	17	Silt stone, light - to medium dark gray, sandy (very fine) in part, slightly dolomitic; a large amount of dark-gray to grayish-black, shaly streaks and shale
1071	1896	25	Siltstone, dark greenish gray to medium dark gray; come dark-gray and grayish-black shale
1698	1908	12	Shale, dark-gray to grayish-black dolomitic and highly calc Jareous in part at the top to a dark-gray to grayish-black, very shaly limestone in the lower part
1908	1913	5	Siltatone, dark greenish gray to medium dark gray; small amount is sandy and calcareous

·	1000	19	simle, dark-gray to grayish-black, nighly dolomitic in part
1020	1958	12	Shalo, very dusky red to reddish-gray and grayish-brown, medium dark whaka gray to grayish-black (highly delegation in part), some dark greenish gray to elive-gray (delegation)
1932	1937	5	Siltatone, dark greenish gray to medium dark gray
1937	1945	8	Shale, dark-gray to grayish-black, highly dolomit in part
1945	1960	15	Shale, very dusky red to reddish-gray, some grayish-brown dark greenish gray to olive-gray and dark-gray (dolomitic)
1960	1975	15	Shale, medium-dark to dark-gray, highly dolomitis in part
1975	1989	14	Shale, dark-gray to grayish-black, calcareous to very highly calcareous; some medium dark to dark-gray shale, highly dolomitic in part
1909	2000	11	Shale, dolomitio to dolomite (very shaly), dark-gray to grayish-black, some grayish-black (highly calcareous)
2000	2010	10	Shale to siltstone (very shaly), medium dark gray to grayish-black, very highly calcareous
80 10	2017	7	Siltatone, medium light to medium dark gray, somewhat dolomitic (contains many medium dark to dark-gray, highly micaceous streaks of silty shale); small amount of black, very highly carbonaceous shale to coal
2017	5050	3	Coal to black highly carbonacesous shale; small amount is highly pyritic; a large amount of medium to medium dark gray siltatone; some dark-gray clay-shale
503 0	2023	3	A large amount of coal to black, highly carbonaceous shale, pyritic; clay-shale, medium dark to dark-gray; some light- to medium-gray siltatone
2023	2033	10	Siltatone to sandstone (very fine), light-gray; a large amount of medium dark to dark-gray shale in the upper part; a large amount of coal and black, highly carbonacous shale in the lower part; some of the shale and coal is highly pyritic
2033	2067	34	Siltatone to sandstone (very fine), very light to light- gray, some medium-gray (with dark-gray to grayish-black shale streaks and some silty shale partings), delomitie in part
2 067	2170	103	Shale, medium dark to dark-gray, small amount of grayish- black to dark yellowish brown (highly sideritic); much of the shale is silty
2170	2207	37	Shale, brownish-black to grayish-black, calcareous with highly calcareous fossiliferous spots
220 7	2228	21	Shale, (highly calcareous) to limestone (very shaly), brownTsh- to grayish-black, highly fossiliferous
2220	2245	17	Siltatone, dark-gray, highly calcareous, very shaly
2245	2259	14	Shale and siltstone, medium dark to dark-gray, some dark-gray to grayish- and brownish-black, calcareous
2259	226 5	6	Limestone, brownish-black to grayish-black, very shely, highlym fossiliferous, colitic in part
2265	2272	7	Shale, grayish-black, very highly calcareous, fossiliferous

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700 5	2504	8	Limestone, grayish-black to black, very shaly
2304	2306	2	Siltstone to shale (silty), medium- to dark-gray, highly calcareous
2306	2308	2	Shale, dark greenish gray to dark-gray with some calcified fossil fragments
0000	2316	8	Shale, medium dark gray to dark-gray, some dark greenish gray, very highly calcareous (mostly fossil fragments)
2011	2321	5	Limestone, grayish-black with medium-gray spots, very shaly, very highly fossiliferous
0 381	2355	34	Shale, medium dark gray to dark greenish gray, silty in the upper part to a shaly siltatone at the bottom, somewhat calcareous with walk's calcified fossil fragments; some and—ium dark to dark-gray shale
2,555	2380 2524	25 Fig.	Shale, medium dark to dark-gray, some dark greenish gray to medium dark gray in the middle part; some grayish-black, highly fossiliferous, shaly limestone in the middle part
ns30	2393	13	Limestone, medium dark to dark-gray, very shaly, very highly fossiliferous (mostly crinoidal)
2393	2396	3	Limestone, dark-gray to grayish-black, very highly fossiliferous, shaly
2396	2405	9	Shale, medium dark to dark-gray, some calcified fossil fragments
£405	2406 2456k	1	Siltatone and shale, modium dark gray to dark greenish gray, very highly calcaresou due to fossil fragments; a large amount of dark-gray shale
2406	2417	11	Shale, grayish-brown to brownish-gray, a large amount of dark-gray to grayish-black shale
2417	2435	18	Shale (highly calcareous) to limestone (very shaly), olive-gray and dark greenish gray to medium dark gray; some medium dark to dark-gray, highly fossiliferous, shaly limestone; a large amount of dark-gray shale
2435	2441	6	Limestone (very shaly) at top to shale (very highly calcareous) at the bottom, dark greenish gray to medium dark gray; a large amount of dark-gray to grayish-black shale
2441	2445	4	Shale, medium dark to dark-gray; some grayish-black, silty, highly calcareous
2445	2460	15	Depth correction
2460	2476	16	Shale, dark-gray to grayish-black, highly calcareous
2476	2505	29	Shale, dark-gray to grayish-black, highly fossiliferous, very highly calcareous, silty
2505	2540	35	Shale, dark-gray to grayish-black, highly calcareous
2540	2552	12	Shale (very highly calcareous) to limestone (very shaly), medium dark to dark-gray, some grayish-black, very silty, dolomitio
2752	2558	6	Limestone, medium- to dark-gray, colitic in part, shaly and silty
2556	8565	7	Dolomite (very shaly) to shale (highly dolomitic), dark greenish-gray to medium dark gray, highly calcareous

2579 Shale, (very highly calcareous) to limestone (very shaly), dark greenish gray and olive-gray to medium dark gray, moderate-brown to grayish-brown; a moderate amount of modium-dark to dark-gray, somewhat shaly, fossiliferous limestone; some dark-gray to olive-black highly calcareous shale at the bottom Greenbrier Formation, 688 Feet. 2579 2583 Limestone, medium dark to dark-gray, colitic 2583 8600 Limestone, garyish- and brownish-black (with light to 17 medium-gray spots), shaly, somewhat silty, colitic 260**0** 2614 Limestone, brownish-black to black with medium-gray 14 spots; somewhat fossiliferous; somewhat shaly and cherty; a little silt 2614 Limestone, very shaly at top to, somewhat shaly at the bottom, grayish-black to black with medium-gray spots; 2633 19 somewhat cherty; somesilt at the bottom Shale, dark greenish gray to dark-gray, highly delouit 10, calcareous; a large amount of grayish-black to black, 2633 2655 22 fossiliferous, highly colitic, shaly, somewhat cherty limestone, mostly limestone in the lower part 265**5** 2680 Limestone, grayish-black to black with medium-gray apots; 25 very shaly to a calcareous shale at the bottom; slightly chorty 2690 2697 Shale (slightly calcareous) to limostone (very shaly), 17 grayish-black to black, fossiliferous 2697 2706 Shale (very highly calcareous) to, limestone (very slity), brownish-black to black, somewhalt fossiliferous 2706 Limestone, grayich-black to black, shaly and silty, sandy (very fine) at the bottom, contains medium-gray, 2718 12 (highly colitic) spots 2718 2729 Shale, dark-gray (with greenish cast), highly calcar-11 eous, somewhat dolomitio; some medium-gray to black, fossiliferous limestone 2729 2741 12 Limestone, medium-dark to dark-gray, somewhat shaly, sandy (very fine), fossiliferous, highly colitic 2750 Limestone, light- to medium dark gray, silty, somewhat sandy and shaly at the bottom, fossiliferous, colltic 2755 Limestone, medium dark to dark-gray with light-gray spots very shaly; shale, dark greenish gray to medium dark gray, very highly calcareous 2768 13 Limestone, dark-gray with light-gray spots, silty, somewhat shaly; some dark greenish gray to medium dark gray, very shaly limestone 2773 Limestone, dark-gray with light- to medium-gray spots; shaly, fossiliferous; limestone (very shaly) to shale (highly calcareous), dark greenish gray to medium dark gray, some pale-brown to grayish-brown in the lower part, silty

Limestone, medium dark to dark-gray (with brownish cast),

very highly colitic (less colitic toward the bottom); a large amount at the top to a moderate amount at the bottom of calcareous, highly dolomitic shale, dark greenish-gray

to olive-gray and grayish-brown, silty

2741

2750

2755

2768

2773

2781

	269 6	78	bli cone, medium dark to dark-gray, clastic texture, colitic; small amount of dark greenish gray to dark-gray (a little grayish-brown), dolomitic, silty shale	
230 3	2813	5	Limestone, olive-gray to medium dark gray, some light- to medium-gray; colitic in part, somewhat silty	
2813	2816	3	Limestone, medium dark gray, some light-gray, dolomitio	
2816	2833	17	Limestone, olive-black to grayish-black, some dark-gray, very shaly with some calcareous shale, silty	
2833	2843	10	Limostone, brownish-black to black, very shaly, silty in the lower part	
in 43	2849	6	Limestone, brownish-black to black, very shaly, silty in the lower part	
2849 23 74	2874	25	Limestone, brownish- and grayish-black to black with some medium-gray spots, very silty inxhhakkoharxpaxx and shaly in the upper part, silty and somewhat shaly in the lower part	
20 74	288 9	15	Limestone, brownish- to grayish-black, very silty at the top to very shaly at the bottom	
2 8 ; 9	2904	15	Limestone, grayish-black, silty and shaly, highly oc-	
2904	2916	12	Limestone, medium dark gray to brownish-black, slightly silty at the top to slightly shaly at the bettom	
2916	29 41	25	Lime stone, olive-gray to medium dark gray, some dark- gray at the bottom; some dark greenish gray and a little grayish-brown, highly calcareous to dolomitic, silty abole	
2941	2947	6	Limestone, olive-gray to dark-gray; a moderate amount of dark greenish gray and some pale-brown, calcareous and dolomitic, silty shale	
194 7	2954	7	Limestone, brownish-black, some medium to medium dark gray, slightly silty, slightly cherty; a large amount of dark greenish gray to olive-gray and pale-brown to graylahe red, highly calcareous, silty shale at the bottom	
2954	2964	10	Shale (highly calcareous) with some limestone, (very shaly gray ish-red to very dusky red, some olive-gray; a large amount of dark greenish gray at the bottom; dolomitic	
2964	8968	4	Limestone, medium- to dark-gray, colite	
196 <mark>8</mark>	2973	5	Limestone, medium to medium dark gray, grayish-black, silty, somewhat shaly	
29 7 3	2978	5	Limestone, medium-dark to dark-gray, some medium-gray, colitic in part, silty, somewhat shaly; trace of chert	
29 78	2988	10	Limestone, dark-gray, very shaly in part	
2988	2995	7	Limestone, brownish-black to dark-gray and grayish-black, mostly colite, somewhat shaly	
299 5	3032	37	Limestone, brownish-gray to medium dark gray to brownish- black, colite, slightly silty; some brownish-black to black, very shaly limestone in the lower part	

494.94	30 44	12	Shale, grayish-black to black, highly calcareous, silty; a large amount of brownish-black limestone, colitic in part	
3044	4 3054	10	Limestone, dark-gray to brownish-gray and brownish-black, very fine to subcrystalline; a large amount of gray ish-black to black, silty, highly calcareous shale	
30 5 4	3063	(mostl:	Limestone, brownishmoner to down	
5003	3068	5	No sample	
30 69	3071	3	Limestone, brownish-gray to medium dark gray	
3071	. 3086	15	Limestone, medium dark to dark-gray, silty, delocitie, somewhat shaly; a large amount of brownish gray limestone in the middle and lower parts	
<i>3</i> 0 8 0	3092	6	Limestone, brownish-gray to dark-gray; limestone to dolomite, medium dark to dark-gray and dark greenish gray, very shaly, silty	
	3112	20	Limestone, brownish-black to olive-black, some brownish-gray, somewhat shaly, silty, very silty at the bottom	
3112	3131	19	Siltstone, dark-gray to olive-black, some dark greenish gray in the lower part; a large amount of brownish-black to to grayish-black colitic limestone at the bottom	
5131	3138	7	Limestone, brownish-gray to brownish-black and olive- black, very shaly silty	
5138	3157	19	Limestone, grayish-black atk the top to brownish-black a/t the bottom, very finely crystalline, somewhat shaly; trace of chert	
3157 3173	3173	16	Limestone, dark-gray to brownish-black; a very large amount of grayish-black to black, highly calcareous shale at the top and bottom, somwhat silty	
	3178	5	Limestone, medoum dark gray to brownish-black, very silty, some grayish-black to black (shaly)	
517 3	3183	5	Shale, dark greenish gray to medium dark gray, some light-gray and some dark-gray, highly calcaresous, dolomitic; trace of chert (chalcedonic)	
5 <u>1</u> .63	3188	5	Limestone, medium dark gray to grayish-black; shaly, cherty (chalcodonic), somewhat fossiliferous	
3d.03	3194	6	Limestone, medium- to dark-gray, very shaly; trace of chert	
3194	3200	6	Dolomite, olive-gray to medium dark gray, highly argillaceous (extremely fine to colloidal), highly calcareous	
3200	3215	15	Dolomite (very shaly) to shale (highly dolomitic), olive- gray and dark greenish gray to medium dark gray, calcar- eous; some brownish-black to black, shaly limestone in the upper part; a large amount of brownish-gray to grayish- black and black, somewhat shaly, cherty limestone in the lower part	
3215	3230		Dolomite (very shaly) to shale (highly dolomitic), medium to medium dark gray, some medium dark gray to dark greenish gray at the top and bottom, some grayish-red at the top, a lagge amount of dark-gray to olive-black at the bottom; small amount of white anhydrite	

S .	Obju	ម	interacte, dark-gray to black, shair, trace of white anhydrite
52 35	3250	15	Dolomite (very shaly) to shale (dolomitie), dark-gray, some grayish-blagek
3250 .	3255	5	Shale, olive-gray to grayish-olive, dolomitic; small amount of dark yellowish brown, sideritic shale; some whits anhydrite with greenish-black spots of chlorite
39 5 5	3265	10	Sandstone, light olive gray to greenish-gray, very fine grained in the upper part, rounded; the sand grains are clear and glassy; anhydrite, highly argillaceous, dolomitic, with larger pieces of crystalline anhydrite, a very large amount of clear and glassy anhydrite that is brokeninto fine to medium grains in thelower part; a large amount of highly dolomitic shale, medium dark to dark-gray, olive-gray to dark greenish gray, some clive-gray to dark yellowish brown and a large amount of grayish-red shale in the lower part
3265	3267	8	Shale (highly dolomitic) and some dolomite, medium dark gray to grayish-black, olive-gray to dark yellowish brown; small amount of anhydrite
			MacCrady Facies of Pocono, 20 Feet.
5 267	3270	3	Shale, grayish-red, with a little anhydrite
32 70	52 79	9	Siltstone and silty shale, dark greenish gray to modium dark gray, a large amount of grayish-red to very dusky red and grayish-brown (glauconitic in part), sandy in part
3279 Elev	3 28 7	8	Siltstone, dark greenish gray to medium dark gray; some grayish-red to very dusky red shale; small amount of pyrite Pocono Formation, 641 Foot.
5387	3312	25	Shale, dark-gray to grayish-black, silty; some of the shale is highly glauconitic in the middle and lower parts; some medium dark gray, calcareous siltstone to olive-gray limestone from 3300 to 3312
5312	3403	91	Siltstone, medium-dark to dark-gray, calcareous and dolomitic; glauconitic in part, highly glauconitic at the top; a large amount of dark-gray to grayish-black silty shale; mostly shale at 3365 to 3385
3 903	3413	10	Siltstone, greenish-gray to medium-gray, pale-brown to grayish-red, slightly dolomitio
5-13	1437	24	Siltstone, medium- to medium dark gray, some medium-gray to grayish-brown; some dark-gray to black, silty shale
3437	3447	10	Siltstone, medium to medium dark gray
3447	3472	25	Siltstone, medium to medium dark gray; shale, dark-gray to grayish-black, mostly shale at 3458 to 3468
3472	3488	16	Siltatone, medium-gray, some medium dark gray
3488	3505	17	Shalo, dark-gray, some grayish-black; siltstone, medium dark gray, sandy in part at the bottom with a small amount of grayish-red shaly material
3505	3516	11	Shale, dark-gray to grayish-black; a small amount of conglomeratic sandstone, fine to very coarse grained, light-gray to dark-gray with some grayish-red; some medium dark gray siltstone

	<i>ફ્રુંટ હોં</i>	<i>₩</i> .	dark gray, sideritie in part; shale, dark-gray in the upper part, dark-gray to grayish-black in the lower part; mostly shale in the lower part with some highly sideritie siltstone
3532	3596	64	Shale, dark-gray; some medium dark gray siltstone at the top
3596	3 85 5	259	Shale, dark-gray, some dusky yellowish brown (highly sideritic); a moderate amount of medium- to medium dark gray siltstone; a large amount at 3646 to 3664, a very large amount from 3790 to 3855
3835	38 70	15	Shale, dark-gray to grayish-black; siltstone, medium dark gray, some dark-gray
38 70	3880 .	10	Shale, grayish-black to black, carbonaceous
386 0	3892	12	Shale, black and grayish-black to black, highly carbon-aceous
3892	3899	7	Shale, black and grayish-black to black, highly carbon-accous; siltatone, dark-gray to grayish-black, somewhat carbonaceous, pyritic (Sunbury 3800-3899)
38 9	3904 <u>1</u>	5 ¹ , √	Siltatone, very light to light-gray, coarse, knolinitio; a very large amount of dark-gray to black shale (probably mostly cavings)
39041	3913	8ដ្ឋ	Siltatone, light gray, coafse, some sand grains (very fine), kaolinitie; a very large amount of dark-gray and some grayish-black to black shale
39 13	3918	5	Sandstone, light-gray, conglomeratic, very fine to fine-grained, with many coarse to very coarsegrains at the top to medium and coarse at the bottom; a moderate amount of dark-gray shale; some light-gray siltstone
3918	3922	4	Sandstone, very light gray, very fine to fine-grained, some medium to coarse grains at the bottom; a very large amount of dark-gray shale in the upper part; some in the lower part
3922	3928	6	Sandstone, light-gray, very fine grained, some fine grains; a very large amount of dark-gray shale in the lower part (Berea 5902 to 3928 - from drillers' log)
			Devonian Shales, 2464 Feet.
3928	3965	37 .	Shale, darkagray, some grayish-black, very silty; some light-to medium dark gray siltstons
3965	4006	41	Shale, dark-gray to grayish-black, silty; a moderate to large amount of medium- to medium darkgray, slightly solomitic siltstone
4006	40 11	5	Shale, dark-gray, some grayish-black; some medium to medium dark gray siltstone
4011	4035	24	Shale (very silty) to siltstope, grayish-black to black, some medium-dark to dark-gray
4035	4110	75	Shale, dark-gray to grayish-black, silty; siltstone, medium to medium dark gray
4110	4173	63	Siltstone, medium- to dark-gray, slightly dolomitic; some shale, dark-gray to grayish-black
4173	4305	132	Shale, dark-gray to grayish-black; a moderate to large amount of medium to medium dark gray siltstone

	7.5 VA	bu	Bighteness, modium dark gray, somewhere dolomitic in park, large amount of dark-gray to grayish-black shale	
4974	4977	103	Shale to siltatone, dark-gray to black (carbonaccous); some medium dark gray to brownish-gray siltatone (a large amount from 4926 to 4938)	
49 77	5108	131	Siltstone, medium- to medium dark gray, small amount is dolomitic; a large amount of dark-gray to grayish-black, silty shale; mostly shale at 5037 to 5051 and in the lower party	
5108	5138	30	Shalle, dark-gray, some grayish-black to black; a moder- ate amount of medium dark gray siltstone	
6133	5285	147	Shale, dark-gray to grayish-black, some grayish-black to black; some medium dark gray to olive-gray siltatone; a large amount of grayish-black to black shale at 5202-	
2 /185	5394	109	5227 and 5250 to 528552 Shale, grayish-black to black (somewhat carbonaceous), some dark-gray to grayish-black, very silty, pyritic in part; trace of white, vein delomite	
5394	5740	346	Siltatone and shalo (silty), olive-gray to medium dark and dark-gray, dolomitic in part; some grayish-black shale in the upper part; some grayish-black to black shale from 5533 to 5602 and 5716 to bottom	
5740	578 7	47	Siltstone, grayish-black, very shaly, somewhat dolomitic; some dark-gray shale and siltstone, a karge amount at 5758 to 5770; some medium to medium dark gray siltstone at 5764 to 5770	
5787	5840	53	Siltatone and shale, medium dark to dark-gray; some grayish-black shale, mostly dark-gray shale at 5822 to 5840	
5840	5848	8	Siltatone, medium dark gray, dolomitic in part	
5840	5913	65	Shale, dark-gray; a small amount of grayish-black to black; some medium dark gray siltstone	
59 13	6008	95	Shale, dark-gray; a large amount of grayish black to black (carbonaceous); trace of calcite	
6008	6123	115	Shale, grayish-black to black (carbonaceous); a large amount of dark-gray to brownish-black; pyritic in part; a very small amount of dolomits; mostly grayish-black to black at 6081 to bottom	
6123	6256	133	Shale, dark-gray to grayish-black interbedded with grayish-black to black (carbonaceous), contains traces of white to light-gray (vein) dolomite	
6256	6320	64	Shale, dark-gray; some grayish-black	
632 0	6356	36	Shale, grayish-black to black (carbonaceous); some black (highly carbonaceous) in the lower part	
65 56	6374	18	Sha le, black, some grayish-black to black, highly carbonacous; a large amount of dark-gray shale and a trace of brownish-black, metabentonite alt the bottom	
6374	6392	18	Shale, grayish-black to black, highly carbonacoous, slightly calcareous, moderately pyritic; some white, voin calcite in the upper part	
6592			Muntersville Chert, 80 Feet.	
6392	6397	5	Limestone, brownish- and grayish-black to black, and some dark-gray with light to medium-gray spots; very shaly; some white to light-gray chert	

			• • •
6400	642 6	26	No sample
0.126	6436	10	Limestone to calcareous shale, medium-gray to grayinh- black, cherty (too highly contaminated with steel chips and cavings for good description)
6436	6442	6	Limestone, medium dark gray to calcareous shale, grayish-black to black, cherty
6442	6444	2	Limestone, medium dark gray to brownish-black in the upper part, grayish-black to black with some dark-gray in the lower part, very shaly to a calcareous shale, very cherty and sandy
6444	6449	5	Limestone (shaly) to a highly calcareous shale, dork- gray to grayish-black; a moderate amount (at the top) to a large amount (at the bottom) of light- to medium- gray chert
6449	6451	5	Chert, white to light-gray, some medium-gray, chalce-donic, somewhat calcareous; some medium-to d, rk-gray limestone
6451	6452	1	Chert, light- to dark-gray, calcareous to a dark-gray to greenish-black, shaly limestone
6452	6458	G	Chert, light- to medium-gray, slightly calcarcous to a dark-gray to grayish-black, calcareous, silicified shale
6453	6461	3	Sandstone, medium- to dark-gray, some light-gray, very fine grained, calcareous, somewhat dolomitic in the lower
04Cl OAKB	6464	3	part, galuconitic in the lower part (collophane?) Sandstone (very fine) to siltatone, medium- to dark-cony, calcareous and phosphatic to a grayish-black, sandy and silty, dolomitic shale
0464	6467	3	Sandatone, medium- to medium dark gray, some grayich- black (shaly), very fine grained, silty, somewhat dolo- mitic, glauconitic, and phosphatic
645 7	6469	2	Sandstone, modium-gray, very fine grained with fine to medium(rounded)grains, silty, glauconitie, some phosphatic? material, somewhat delomitie
			Oriskuny Sandatone, 8 Feet.
6469	6471	2	Sandstone, light-gray, very fine grained, some fine to medium rounded grains in the upper part, somewhat delemitie had been part and somewhat phosphatic (?) in the upper part
6471	6472	1	Sandstone, very light to light-gray, very fine grained, somewhat dolomitic; some black, shaly material
6472	6477	5	Sendstone, very light gray, fine- to medium-grained, sub- rounded; a few coarse, rounded grains at the top
			Helderborg Formation, 127 Feet.
6477	6478	ı	Limostone, light- to dark-gray, very cherty, silty
6478	6483	5	Chert, modium to medium dark gray, some grayish-black (shaly), calcareous to a sandy (very fine) and silty lime-stone
6483	6490	7	Limestone, medium- to dark-gray (with some grayish-black), shaly) at the top to medium-gray at the bottom, cherty, very cherty in the upper part, very silty and very sandy (very fine; some fine, rounded grains in the lower part), shaly in part

	ω 43 1 <u>.</u>	1	litestone, medium-gray, very cherty, very sandy (very fine to fine grained), some medium grains), contains a little dark shale	
649)	1 6501	10	Sandstone, probably very light gray (highly stained with iron rust), calcareous, very fine to fine grained, sub-rounded to rounded, very fine to medium-grained at 6491 to 6493	
6501	L 6502	1	Sandstone (highly calcareous) with some limestone (very sandy), light- to medium-gray, very fine to medium-grained (the large grains are rounded)	
6502	6511	8	Sandstone, light-gray (with medium gray spots), very fine to medium-grained, subrounded to rounded, mostly fine-to medium-grained with some coarse grains at 6505 to 6507, highly calcareous, very highly calcareous at the top, some medium-gray, silty, glauconitic sandstone and some gray laid-black shale at the bottom	
6511	. 6517	. 6	Sandstone, light-gray, vory fine to fine-grained, sub- rounded to rounded, some fine to medium grains, calcareous, somewhat shaly and cherty at the bottom	
65 17	6522	5	Limestone (very cherty) to chert (highly calcaroous), dark-gray to grayish-black, some medium dark gray at the top, very shaly, sandy in the upper part	
6522	6540	18	Limestone (highly argillaceous) to shale (silicified), dark-gray to grayish-black, very cherty, delomitic, silty	
6540	6542	2	Limostone, medium dark to dark-gray (with white to light-gray spots), very cherty (lacy to spongy), argillaceous, some fossil fragments	
6542	6550	8	Limestone, medium-gray with dark-gray, argillaceous streak and white to light-gray calcite and calcareous chort (lacy to spongy)	
6550	6564	14	Limestone, light- to medium-gray, very sandy (fine, rounded), very cherty (chalcedonic to ordinary)	
6564	6570	6	Shale and chort, dark-gray to grayish-black, calcareous to a light- and modium-gray, very cherty (chalcodonic) lime-	
6570	659 7	27	Shale, dark-gray to grayish-black (with light- to medium- gray, porcellaneous chert), highly calcareous, fossiliferous	
- 6597	6606	9	Line stone, dark-gray to grayish-black, very shaly, very silty and sandy (very fine) and cherty at the top to silty and very cherty at the bottom, somewhat pyritic	
			Transitional Holderberg to Salina? 24 Feet.	
6608	6608	2	No sample	
16603	6616	8	Limestone, grayish-black to black, highly dolomitic, shaly in the upper part, cherty	
6616	6020	4	No sample	
662 0	6627	7	Limestone, grayish-black to black (slightly dolonitic), some dark-gray (highly dolomitic), somewhat argillaceous	
6 62 7	663Q	3	Limestone, dark-gray to grayish-black, highly delemitic, (dolomized colite), slightly argillaceous and slightly sandy	

A.3	1943 (i)	ű	Polomico, graylah-black, some of the graylah-black, highly calcarcous; much of this sample is a dolomitized colite, somewhat sandy (some of the sand is anhydrite), slightly argillaceous	
6635	6443	8	Dolomite (highly calcareous) to limestone (highly dolo- mitic), grayish-black and dark-gray to grayish-black, shaly, some anhydrite sand (fine to coarse)	
6443	6649	6	Shale, grayish-black to black, highly calcareous to a calcareous, dark-gray to grayish-black dolomite, some practically dolomitized colite(?), pyritic in part	
6649	6659	10	Dolomite, dark-gray to grayish-black and brownish- black, calcareous, with some dolomitic limestone, somewhat shaly; small amount of anhydrite	
63 59	6669	10	Limestone (highly dolomitic) to dolomite (highly calcareous); grayish-black, slightly shaly; small amount of anthydrite	
666 9	6671	2	Dolomite, medium dark to dark-gray, some grayish-black (shaly in part), highly calcareous; small amount of anhy-drite	
66 71	6676	5	Limestone, brownish-black to black, partially dolond- tized Colite (dolomized part is medium- to dark-gray), somewhat argillaceous, silty to sandy (very fine, anhydrite in part)	
60 76	6679	3	Dolomite, medium dark gray to brownish-black, sandy to a highly dolomitic, medium-gray, very fine to fine-grained sandstone, highly calcareous	
66 79	668 5	6	Sandstone, light-gray (with some dark-gray, shaly streams veryaline grained, some fine grains, dolomitic	
668 5	6698	3	Saudstone, light-gray, very fine grained, some very fine to fine grains at the bottom	
6688	6721	33	Dolomite-anhydrite rock, grayish-black to black with some medium- to dark gray, contains a large amount of white anhydrite, very shaly in part, contains much dark colledial material (insoluble residue), subcrystalline to very fine	
6721	676 3	42	As above but less shaly and brownish-black to black with some medium-gray to brownish-gray; a large amount of white anhydrite in the upper part, very fine crystalline	
676 3	6791	28	Dolomite, brownish-gray to brownish-black, mostly brown-ish-gray to dark-gray at 6780 to 6782, very finely crystal-line; a moderate amount of anhydrite	
6 7 01	6795	4	Dolomite-anhydrite rock, mottled light- to medium-gray and dark-gray to grayish-black	
6795	6799	4	As above but mostly grayish-black to black	
6799	680 5	6	Dolomite, medium dark to dark-gray with medium-gray apots (dolomized colite in part), slightly shaly, a moderate amount of anhydrite	
63 05	6882	17	Dolomite, brownish-gray to dark-gray and brownish-black, very fine to finely crystalline, very shaly in part, some anhydrite	
6822	68 37	15	Dolomite, brownish-gray to grayish-black, finely crystalline in the upper part, very finely crystalline in the lower part; all of the samples contain some anhydrite; a large amount of white to light-gray, anhydritic dolomite in the lower part	

	v ±		line to very fine crystalline, somewhat shaly in the upper part; some white to light-gray, anhydritic dolo-mite
6844	6851	7	Dolomite, brownish-gray to dark-gray and grayish-black, very finely crystalline, some anhydrite; a moderate amount of white to light gray, dolomitic anhydrite in the lower part
685 1	6861,	10	Dolomite, brownish-gray to brownish-black and anhydrite, white to light-gray
686 1	6867	6	Dolomite, grayish-black to black, some brownish-black; contains a large amount of anhydrite; a moderate amount of white, vein calcite and anhydrite
68 67	688 5	18	Dolomite, brownish-black and brownish-gray to brownish- black, very fine to finely crystalline; a large amount of anhydrite in the upper part and a moderate amount in the lower part
638 5	6890	5 ·	Dolomite, medium- to dark-gray, subcrystalline to very finely crystalline; some anhydrite
6390	6913	23	Dolomite, brownish-gray to brownish-black, very fine to finely crystalline, slightly argillaceous; some anhydrite
6913	6927	14	Dolomite, brownish-gray to grayish-black, very finely crystalline; some anhydrite
692 7	693 6	7	Dolomite, dark-gray to grayish-black, some brownish-gray in the upper part, finely crystalline; small amount of anhydrite; small amount of white, vein dolomite
693 6	6942	6	Limestone, brownish gray to dark-gray and grayish-black, colitie, highly dolomotifed in part, silty, very fine to medium crystalline
6942	6949	7	Dolomite, dark-gray to grayish-black, some brownish-black, highly calcareous, finely crystalline, silty
6949	6954	5	Limestone, brownish-black to black, partially dolomp- tized colite, somewhat silty
6954	696 3	9	Dolomite, brownish-black at the top to dark-gray and grayish-black at the bottom; highly calcareous, dolomy-tized colite, silty, slightly argillaceous
ବେଟୋଟ	978	15	Dolomite, brownish-gray to grayish-black, highly calcareous, very fine to finely crystalline, silty, some very fine sand; a large amount of partially dolomptized, lims-stone colite at 6968 to 6972; some shaly material at the bottom
6978	6982	4	Dolomite (very silty) to siltstone (highly dolomitic), dark-gray to grayish-black, shaly in part
698 2	6996	14	Dolomite, medium- to dark-gray, very silty with some highly dolomitic siltatone, sandy (very fine) in part, very finely crystalline
699 6	7006	10	Dolomite, dark-gray to grayish-black, very silty
7006	7012	6	Siltstone (highly dolomitic to silty dolomite) at the top to (shale, very highly dolomitic and very silty) at the bottom, grayish-black
7012	7023	11	Limestone, brownish-black to grayish-black, shaly and silty

hi, my dolomitio), gray	grayieli-black, some	medium-to dark-
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			gray gray and medium-to dark-
702	9 7036	Ų	Sandstone (very fine) to siltstone, light - to moddum-gray, calcareous and dolomitic; some dark-gray, highly calcareous shale and siltstone
7036	5 705 5	19	Shale and siltstone (highly dolomitic) at top to silt- stone and sandstone (very fine, highly calcareous, very shaly, dolomitic) in the middle and lower parts, grayish- black, some medium- to dark-gray
7053	7059	4	Siltstone to sandstone (very fine, some fine grains), dark-gray to grayish-black, very shaly, calcareous and dolomitic; highly calcareous at the top
7058	7064	5	Sandstone, medium- to dark-gray, very fine to medium- grained, rounded to well rounded, highly pyritic, colear- cous, dolomitic at the top
7064	7072	8	Sandstone, light- to medium-gray, very fine to fine-grained, rounded to well rounded, some medium to convec grains at 7068 to 7070, silty, a large amount of grayinh-black to black shale at the bottom
7072		7	Limestone, (very sandy) to sandstone (very highly col- careous, very fine), dark-gray to grayish-black; a very large amount of grayish-black to black shale at the cop
7079	7086	7	Sandstone, light- to medium-gray (with dark-gray, chaly streaks), very fine grained to coarse silt, some fine to coarse grains, slightly dolomitio
70/96	7090	4	Siltstone (coarse) to sandstone (very fine), mostly medium-gray, somewhat dolomitie; a large amount of modlum dark gray to dark-gray shale at the bottom
5000			
			Clinton Formation, 186, plus, Feet.
7090	7106	16	Clinton Formation, 186, plus, Feet. Shale, medium dark gray; some siltatone, medium-gray to dark greenish gray, sandy in part
	7106 7132	16 26	Shale, medium dark grave to the
7090			Shale, medium dark gray; some siltatone, medium-grey to dark greenish gray, sandy in part
7090 71 06	7132	26	Shale, medium dark gray; some siltatone, medium-gray to dark greenish gray, sandy in part Siltatone, medium-gray to dark greenish gray, kaolinitic shale, medium to medium dark gray
7090 7106 7103	7132	26 6	Shale, medium dark gray; some siltatone, medium-gray to dark greenish gray, sandy in part Siltatone, medium-gray to dark greenish gray, kaolinitic shale, medium to medium dark gray Shale, brownish-gray to dusky-brown, silty; shale and siltatone, medium to medium dark gray and dark greenish Shale, and siltatone, medium dark gray and dark greenish
7090 7106 7108 7108	7132 7133 7162	26 6 24	Shale, medium dark gray; some siltstone, medium-gray to dark greenish gray, sandy in part Siltstone, medium-gray to dark greenish gray, kaolinitic shale, medium to medium dark gray Shale, brownish-gray to dusky-brown, silty; shale and siltstone, medium- to medium dark gray and dark greenish gray Shale, and siltstone, medium dark gray to dark greenish gray; shale, brownish-gray, some brownish-gray to dusky- Shale and some siltstone, medium dark gray to dark greenish brown
7106 7108 7108 7162	7132 7133 7162 7179	26 6 24	Shale, medium dark gray; some siltatone, medium-gray to dark greenish gray, sandy in part Siltatone, medium-gray to dark greenish gray, kaolinitic shale, medium to medium dark gray Shale, brownish-gray to dusky-brown, silty; shale and siltatone, medium dark gray and dark greenish gray Shale, and siltatone, medium dark gray to dark greenish gray; shale, brownish-gray, some brownish-gray to dusky-brown Shale and some siltatone, medium dark gray to brownish-gray and dark greenish gray Shale, brownish-gray to dusky-brown, some brownish-gray to medium dark gray; shale, brownish-gray to dusky-brown, some brownish-gray
7090 7106 7108 7162 7179	7132 7133 7162 7179 7202	26 6 24 17 23	Shale, medium dark gray; some siltstone, medium-gray to dark greenish gray, sandy in part Siltstone, medium-gray to dark greenish gray, kaolinitic shale, medium to medium dark gray Shale, brownish-gray to dusky-brown, silty; shale and siltstone, medium-to medium dark gray and dark greenish gray Shale, and siltstone, medium dark gray to dark greenish gray; shale, brownish-gray, some brownish-gray to dusky-brown Shale and some siltstone, medium dark gray to brownish-gray and dark greenish gray Shale, brownish-gray to dusky-brown, some brownish-gray to medium dark gray; shale and siltstone, dark groonish gray to medium dark gray; shale and siltstone, dark groonish gray to medium dark gray Some sandstone, dusky-brown to very dusky red, very shale siltstone and shale grayerish to very dusky red, very shale siltstone and shale gray to very dusky red, very shale siltstone and shale gray to very dusky red, very shale siltstone and shale gray to very dusky red, very shale siltstone and shale gray to very dusky red, very shale siltstone and shale gray to very dusky red, very shale siltstone and shale gray to very dusky red, very shale siltstone and shale gray to very dusky red, very shale siltstone and shale gray to very dusky red, very shale siltstone.

1.05	7264	11 day	Candstone (very fine) to eiltstone (sandy), very dusky red to dusky-brown, very shaly, highly ferruginous; a large amount of greenish-gray to medium dark gray and (dusky greenish gray shale and siltstone in the upper part
7264	7269	6	Siltstone and shale, groenish-gray to dark greenish gray, some medium dark gray
7269	7275	6	Sandstone, grayish-red to very dusky red, very fine to fine grained, fine to coarse at the top, ferruginous, very shaly; a large amount of greenish-gray to dark green- ish gray in the upper part
7278	7276	1	Sandstone, pale-red to graylah red, fine- to coarse- grained, contains ferruginous interstitial material; some, greenish-gray siltstone
	7276		TOTAL DEPTH

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