

WEST VIRGINIA DEPARTMENT OF MINES OIL & GAS DIVISION WELLRECORD

Permit No. Rit 1256 Elizabeth Quad.				Dry Hole ASING & TUB	
Gompany Address Farm Location Well No. District Surface Mineral	445 We Jessio 9300	atural Gas Compast Main St., Class Powell Acres Elev. 1006 Ritchie Cour	arksburg, W.Vas 224 aty	16 101 13 473 10 1172 8½ 2411 5/8 3885	Pld. 1172 2411
Commenced Completed Salt Water	Oct. 1 May 6, 5658		7" s	NG CEMENTED et in 30 ba nt	
Clay Sand Slate Shell Lime Sand Slate Shell Red Rock Slate Shell Pink Rock Sand Slate Red Rock Slate Lime Red Rock Slate Red Rock Slate Red Rock Slate Red Rock Slate Shell Red Rock Lime Slate Shell Red Rock Lime Slate Shell Lime Slate Shell Lime Slate Shell Lime Sand Slate Sand Slate Sand Slate Lime Slate Sand Slate Sand Slate Lime Slate Shell Lime Slate Sand Slate Shell Lime Slate Sand Slate Lime Slate Sholl	0° 38 61 81 96 107 115 195 204 227 315 205 327 339 372 387 443 463 470 483 572 537 625 636 692 748 768 855 857 908 909 1015 1035 1035 1035 1035	135 Slate Slate Slate Slate 304 Gray Sal 226 Broken 1 270 Lime She 315 Bl. Slate She Slate She Slate She Slate She Slate She Slate She Shal 463 Slate She Shal 463 Slate She Shal 572 Bl. Lime 597 Br. Shal 625 Gray Lime 636 Br. Shal 664 Black She 692 Cornifer 748 Oriskany 763 Total de 788 825 Show oil 855 Show oil 856 Show oil 858 Show oil 858 Show oil 858 Show oil 858 Show oil 870 Gas 1920 908 Show oil 944 Show oil 1002 Gas 2725 1015 0il 2785 1019 Show gas 1035 1077 1120	crizon hell Sand ell ell hell hell hell he hell he hell he hell he hell he	5655 - 5760 (2060 2314 2407 2596 2638 2762 2780 2830 2965 3352 3397 5420 3879 3922 4725 4750 4930 4979 5045 5248 5298 5343 5392 5468
Pink Rock Lime Slate Maxon Broken Slate Sand Slate Shell Blue Monday Big Lime Big Injun Slate Shell Gritty Shale	1120 1125 1133 1148 1170 1320 1355 1375 1412 1430 1504 1630	1125 1133 1148 1170 1320 1355 1375 1412 1430 1504 1630 1900	54 10 - 44 3740 1004 9784	68 06 1	7655

Grant District, Ritchie County, W. Va.

By Hope-Natural Gas Co., Clarksburg, W. Va.

Located 0.78 mi. S. of 39° 15' and 0.45 mi. W. of 81° 15' - NE - Elizabeth Quadrangle. Elevation, 1006' L.

Permit Rit-1256.

Drilling commenced Oct. 1, 1948; completed May 6, 1949.

Dry hole.

Salt water, 5650-56801.

16" casing, 101' (pulled); 13", 473' (pulled); 10", 1172'; 8\frac{1}{4}\tau\$, 2\text{411'}; 6\frac{5}{8}\tau\$, 3885'. Show oil, 210', 1555', and 1800'; show gas, 1855', 1920-1933'; show oil and gas, 2316-2329'; show oil, 2626-2636'; gas, 2725'; oil, 2785-2790'; show gas, 4690'.

No coal was encountered.

Section based on samples from 0 to 58101; examined by Russell R. Flowers.

Section	. based	on sampl	les from 0 to 58101; examined by Russell R. Flowers.
protein Protein		amt f v	
	ottom.	Thicknes	FENNSYLVANIAN, 1430+ REET
0	20	20	Clay, grayish-red to grayish-brown with varicolored limestone
() and	المان ال		nodules: some light-gray to olive-gray and grayish-red lime-
			stone at the bottom
20 -	30	10-	Shale (silty) and siltstone to sandstone (fine), medium and
			medium dark gray to greenish-gray; very highly micaceous
			(biotite and muscovite), chloritic
30 -	61	31	Sandstone, very light to light-gray, fine- to medium-grained,
			subrounded to rounded, fine to very coarse at the bottom,
			ealcareous, micaceous, chloritic; some light-gray to greenish-
			gray, very highly micaceous (biotite and muscovite), chloritic
			sandstone at the top; some medium-gray tom dark greenish gray,
			highly chloritic sandstone at the bottom
61 -	69	8	Clay, dark greenish gray, dark-gray, some grayish-black in the
			lower part, light olive gray to dark greenish gray, grayish-
			brown to grayish-red, dark-gray to grayish-black; some lime-
69 -	80	11	stone nodules Shale (soft) and siltstone, greenish-gray to dark greenish gray
			(chloritic)
80 -	98	18	Siltstone, medium-gray to greenish-gray, chloritic, micaceous:
			at the bottom, sandy (very fine), highly micaceous (musco-
•			vite and biotite)
98 -	107	9	Sandstone, light-gray, very fine to fine-grained, mostly fine
	· · · · · · · · · · · · · · · · · · ·		at the top, somewhat calcareous at the bottom, a little
			chlorite and mica
107 -		.4	Glay-shale, greenish-gray to medium dark gray, silty
111 -	120	9	Clay, olive-gray to grayish-olive and dark greenish gray at the
	en e	ζ	top to brownish-gray and very dusky red at the bottom; con-
	9 000	* ^	tains varicolored limestone nodules
120 -	154	12	Clay, with limestone nodules, grayish-brown to dusky-brown and
			some greenish-gray to olive-gray in the upper part; greenish- gray to medium dark gray (very silty), dusky-brown to very
			dusky red, and some olive-gray in the lower part
132 -	143	11	Siltstone, medium dark gray to dark greenish gray, highly mica-
			ceous, highly chloritic, some limestone nodules
143 -	153	10	Shale, brownish-gray to grayish-brown, silty to a medium dark
		, i i	and dark greenish gray siltstone
153 -	170	17	Siltstone, medium dark gray to dark greenish gray, highly mica-
			ceous and highly chloritic, some brownish-gray to dark-gray
			at the top, calcareous in part; mostly medium-gray, micaceous
			and chloritic siltstone to sandstone (very fine) at the bottom
170 -	175	5	Sandstone, light-gray to greenish-gray, very fine; some dark
			greenish gray siltstone
			(OVER, p. 2)
	***************************************		and the same of th

***************************************	1 MAR and Association Association and the participation of the control of the con		
	Bottom.	Thickne	ess.
175	- 187	12	Siltstone and some shale, medium dark to dark-gray, some
			dusky yellowish brown (highly sideritic), micaceous
187 .	- 200	13	Clay, olive-gray to medium-gray and grayish-brown; some olive-
		a- o-	gray to brownish-gray limestone; a moderate amount of silt-
			Stone to make fine conditions of the true amount of Silve
THE CONTRACT OF STATE			stone to very fine sandstone at the top to a large amount at
			the bottom, medium- to dark-gray, micaceous and chloritic;
200	204	1.	trace of black carbonaceous shale
	, , , , , , , , , , , , , , , , , , ,	4	Siltstone, dark greenish gray, highly chloritic, micaceous
204.	- 229	25_	Sandstone, light-gray, fine-grained in the upper part, fine to
· · · · · · · · · · · · · · · · · · ·	. 1	Manager Control of the Control of th	medium with some coarse in the lower part, some of the sand
			grains are chloritic rock fragments
	- 234	5	Clay, gray
234 .	- 266	32	Siltstone, medium- to medium dark gray and dark greenish gray,
		-	highly chloritic, highly micaceous; sideritic in part; a
			Jorge amount of modium to design and a local force in barties
			large amount of medium- to dark-gray shale with sideritic
			specks at 251 to 255; mostly medium to medium dark gray
266	- 280	7 /1	with streaks of siderite in the lower part
- 000	- 200	14	Siltstone, dark greenish gray to medium dark gray, highly
			chloritic and highly micaceous; some grayish-brown to very
~~~			dusky red shale
280 -	- 292	12	Siltstone, medium-gray to dark greenish gray, highly chloritic
ente			and highly micaceous (biotite and muscovite); a large amount
		·	or grayish-brown Clay-shale
292 -	300	8	Clay, brownish-gray to dusky-brown, some medium-gray to dark-gray
		Military for the second section of the second	and olive-gray; some medium-gray to greenish-gray, very silty
300 -	- 315	15	Siltstone, medium dark gray (with some green), very highly
			micaceous (biotite and muscovite), chloritic; some olive-
			gray and brownish-gray to grayish-brown clay and clay-shale
		t .	at top to a large ement of the last of and clay-shale
315 -	- 325	10	at top to a large amount at the bottom
		ola W	Some coal to grayish-black shale in the lower part and some
			grayish-black and dark-gray shale in the upper part; a large
tersenance in action and		man na an an agagaga aran san a an a a a	amount of greenish-gray to medium- and medium dark gray sand-
			stone (fine and very fine) to silt stone with some shale at
S			one top to a moderate amount at the hottom. some olive blank
			rossillerous shaly limestone at the top to a dark may to
			olive-gray, black, fossiliferous, calcareous shale at the
			DO 6 COM
325 -	331	6	Clay, medium- to dark-gray, with light-gray to dlive-gray lime-
			stone nodules
33 <b>1 -</b>	- 336	5	Limestone, light-gray to olive-gray, very sandy to a greenish-
			gray, calcareous, very fine sandstone
336 -	342	. 6	Siltstone to sandstone (very fine), medium-gray to greenish-gray
			and dark greenish grow missesses and dark greenish-gray
			and dark greenish gray, micaceous and chloritic, highly calca-
342 -	354	12	reous in part; some brownish-gray to grayish-brown shale
	J. J	40 E	Clay, grayish-olive to moderate yellowish brown, brownish-gray
	* €		very dusky red: contains many limestone (fossiliferous)
354 -	370	7 2	mountes .
	319	16	Clay to shale (soft), dusky-brown to grayish-red, a large amount
2770	000	<b>(1)</b> are	or moderate verrowish brown, contains limestone nedulac
370 -	387	17	Ulay-shale, medium-gray to greenish-gray very silty brownish
			gray to very dusky red, grayish-olive to moderate wellowish
	* *		or own (nighty calcareous to shalv limestone)
387 -	425	38	Clay, with limestone nodules, moderate yellowish brown to
			or ovill Sn-2ray to very disky red
425 -	438	13	Clay, grayish-brown to very dusky red; a large amount of light-
na materia de la constitución de			er or to olive many tou; a large amount of light.
			gray to olive-gray and some grayish-brown limestone in the
	maan aa	and the state of t	lower part

(Continued on p. 3)

	Top.		Bottom.	Thickne	388.
hilliogh			447	9	
					Siltstone, medium-gray to dark greenish gray; this interval is mostly clay with limestone nodules, moderate yellowish
	111127		459	3.0	brown to grayish-brown
	moral l	1940)	ペンプ	12	Siltstone to sandstone (very fine), greenish-gray to dark
					greenish gray; some clay with limestone nodules, moderate
	1,70		468		yellowish brown to very dusky red
	ヤンブ	990	400	9	Clay and clay-shale, medium-gray to brownish-gray and very
					dusky red at the top to grayish-brown and very dusky red
	penanana a		. aproce . a securitarion alternati	odenia i od o od o	with some medium-gray and moderate yellowish brown at the bottom
	468		474	6	Shale (highly calcareous) to limestone, medium-gray to greenish-
	N/P		t :		gray and moderate yellowish brown, some grayish-brown to very
					dusky red; a moderate amount of greenish-gray, very fine.
					calcareous sandstone
	474	ate	485	11	Sandstone, light-gray to greenish-gray, some dark greenish gray
				124	(very silty), chloritic, some mica, calcareous
	485		493	8	Siltstone and shale, medium dark gray to dark greenish gray.
					calcareous at the bottom
	493	NAME:	500	7	Limestone, light-gray to olive-gray and brownish-gray, very
	50 pm on		upf 8th		silty and sandy at the top
	200	1015	512	12	Sandstone, light olive gray to greenish-gray, very fine to
		,			fine-grained, highly calcareous in the upper part: a moder-
					ate to large amount of medium dark to dark-gray, silty shale:
	£7 13		519		small amount of grayish-black to black. "coalv" shale
	) # K	·mò	フエソ	7	Siltstone and shale, medium- to dark-gray, some dusky yellowish
					brown (highly sideritic); a very small amount of gravish-
	570		528		black to black "coaly" shale
	J da J	mile	120	9	Some coal to black, carbonaceous shale and some light-gray to
					olive-gray limestone at the top; clay, light- to medium-gray
	528	600	535	7	with many limestone nodules
					Siltstone and shale to limestone, medium-gray and greenish-gray to blive-gray and dark-gray
	535	ante .	558	23	
				5-0 pd	Clay, grayish-brown to moderate yellowish brown, some very dusky
					red, contains many limestone nodules and some light to medium-gray limestone
	5 <i>5</i> 8	45110	572	14	Clay and limestone, grayish-brown to reddish-gray, some very
					dark red, olive-gray to moderate yellowish brown, much light-
					gray to greenish-gray in the lower part
	572	19800h	596	24	Siltstone and shale in the upper part to siltstone, shale, and
				and the first partition of the second	sandstone (very fine) in the lower part, greenish-gray to
					dark greenish gray, calcareous in part, chloritic, sideritic
		p.c.			in part; some varicolored limestone and clay
	596	- COLOR	605	9	Clay-shale, brownish-gray to dusky-brown, some medium-gray to
					greenish-gray at the bottom
	605	****	61.2	7	Clay, moderate yellowish brown to gravish-brown and very dusky
					red; mostly grayish-brown to very dusky red clay with lime-
	620		Col	* #4	stone nodules in the lower part
	OTC	#0588 	624	12	Clay, moderate yellowish brown to olive-gray, a large amount of
					right to medium-gray and some dusky-brown at the top, a very
	60h.		645	~**	large amount of dusky-brown to very dusky red at the bottom
	645	entit	663	2 <b>1</b> 18	Silisione and shale, dark greenish gray, small amount is sideritie
	-			J. U	bhaie and siltstone, medium-gray to greenish-gray and dark green-
-					ish gray, sideritic and sandy in the middle part; clay and
					limestone, moderate yellowish brown to very dusky red, light-
					gray to olive-gray (cavings?)
					(OVER, p. 4)

Top.	PA	ottom	• Thicknes	SS a
		-680		Sandstone (very fine) with layers of siltstone, medium dark
209	-			gray to dark greenish gray, very highly micaceous
			hal or \$1000 models to reproduce participation of the control of t	(biotite and muscovite), chloritic, calcareous, sideritic
-			Pakk at the declaration control participation graphics	(spherulites)
680	0449	687	7	No sample
		692	5	Same as interval 663 to 680
		-699 -	7	Shale and siltstone, grayish-black, micaceous
		713	14	Shale, black, some grayish-black to black, carbonaceous, with
		, ~ J	Ma ^T T	calcified fossils (gastropods?), some highly carbonaceous
Notice was was an annual and the				shale to coal at the bottom; some varicolored clay and lime.
				stone (cavings?)
71.3	4903	729	16	Shale, medium to medium dark gray; sandstone, light-gray, very
	The second second		en e	fine, calcareous; some black, fossiliferous shale to coal
729	923	740		Clay, medium to medium dark gray and dark greenish gray, sider-
				itic (specks and spherulites), contains limestone nodules
740	~~ <b>***</b> ********************************	750	10	Clay, greenish-gray to dark greenish gray, some very dusky red
*				to reddish-gray, some moderate rellowish brown
750	****	760	10	Siltstone, greenish-gray to dark greenish gray
		771	11	Sandstone, light-gray to greenish-gray, very fine grained, mica-
†				ceous and chloritic, highly micaceous in part (much biotite),
			**************************************	calcareous
771		776	5	Sandstone, light-gray with greenish-gray micaceous spots, fine-
: #				to coarse-grained, subangular to subrounded, calcareous
		788	12	Shale and siltstone, medium dark gray to dark greenish gray
788		800	12	Clay with a little limestone, varicolored with light- to medium-
The state of the s			The second of th	gray predominant
800	400.00	811	11	Shale and siltstone, medium dark to dark-gray; small amount
		- eco eco com ocusor co co		is highly sideritic
811	AUG	820	9	Sandstone, medium light to medium dark gray, very fine grained,
yla.	-	2		highly micaceous (much biotite), chloritic
820		-862-	42	Sandstone, very light to light-gray, fine- to medium-grained.
*			*	subrounded to rounded, some coarse grains, micaceous and
				chloritic; somewhat calcareous; a large amount of medium dark
~ ~	· 5 · · · · ·	() yes	namentaman agant menilipan panga	to dark-gray siltstone and silty shale at the bottom
862	0400	870	8	Limestone (argillaceous) to shale (highly calcareous), olive-
on.	٧.	Omm	ginus .	gray and brownish-gray to dark-gray
		-877 898		Clay, medium— to dark-gray, some light-gray
0//	4000s	070	21.	Shale, medium dark to dark-gray, some Light-gray, sideritic in
2.50M		moons -	A STATE OF S	part, many scattered siderite spherulites at the top, some
898		900		dark-gray to olive-black at the bottom
070		740		Clay, light- to dark-gray, very dusky red to moderate yellowish
		4	to the second se	brown; a large amount of medium-dark to dark-gray shale;
903	1140	908	5	small amount of coal
		940	32	THE COLUMN TWO COLUMNS AND A COLUMN TO SERVICE AND A COLUMN TO THE COLUMN THE
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		J-74	)4	Sandstone, light- to medium-gray (silty), very fine grained,
				micaceous and chloritic; sideritic; mostly siltstone at the top
940	••••	946	67	Sandstone, light-gray, medium-grained; a large amount of shale,
			And Williams and Commission of Commission Co	derk-gray to grayish-black
946	winerfo	952	- 6	Clay-shale, light- to dark-gray, somewhat sideritic (spherulites);
				some grayish-black to black shale
952		972	20	Siltstone and shale, medium dark to dark-gray, sideritic to
-				very highly sideritic; a large amount of grayish-black
1 · · · · · · · · · · · · · · · · · · ·				to black, highly carbonaceous shale and some dusky-brown
				shaly siderite at the bottom
972	*****	986	14	Clay, medium-gray to olive-gray at the top to light-gray to
		* :		grayish-black clay-shale; small amount of dusky yellowish
		Printer	N T CONTROL CO	brown, shaly siderite; small amount of coal at the top
			. I Proceedings of the section of the control of the section of th	, and the second se
		//		(Continued on p. 5)

Top.	Bottom.	Thicknes	
986	- 1000	14	Siltstone and shale, medium- to dark-gray, miacecous, somewhat
	en de la companya de La companya de la co		sideritic; highly sideritic and some shaly siderite at the
		·	bottom
7.000	- 1015	15	Siltstone to clay, light olive gray, highly silicified, con-
	the same of		tains many plant rootlets; sideritic in part, a very small
			amount is carbonaceous at the top (ganister)
1015	- 1020		
		5	Olay, medium- to dark-gray, some dark greenish gray
エハベハ	- 1027		Siltstone, light to medium-gray, very highly sideritic in part;
2000	2001		some varicolored clay
	- 1036		Siltstone and shale, dark-gray, some dark-gray to olive-black
1036	- 1060	24	Sandstone, light- to medium light gray, mostly fine-grained,
			subrounded to rounded, highly argillaceous, chloritic and
			micaceous, contains detrital rock fragments, a large amount
	man		of varicolored clay at the bottom
1060	- 1067	7	Siltstone, dark-gray, highly miaceous, very highly sideritic.
			with some grayish-brown clay at the bottom
1067	- 1075	8	Sandstone, light-gray (with dark yellowish brown sideritic
			specks and streaks), very fine grained, very silty, contains
		\$ 600.000 0000000000000000000000000000000	some mica and chlorite, some carbonaceous material
1075	- 1092	17	Clay, olive-gray to brownish-gray, silty; shale, dark-gray to
· · · · · · · · · · · · · · · · · · ·			grayish-black, silty; small amount of siderite at the bottom
1092	- 1105	1.3	Siltstone, dark-gray to grayish-black, shaly, micaceous, carbona-
			ceous; some varicolored clay
77.05	- 1115	10	Shale, dark-gray to grayish-black, small amount of siderite in
			the lower part
7716	- 1120	5	Coal to black, carbonaceous shale
	- 1126	6	Sandstone, olive-gray, highly argillaceous, very fine grained.
alter when the Co		· · · · · · · · · · · · · · · · · · ·	some muscovite; small amount of coal to black shale
1126	- 1136	10	Siltstone, dark-gray to grayish-black (with black, carbonaceous
- when the dry had			layers)
1136	- 1143	7	Siltstone and silty shale, light- to medium-gray, some olive-
and the Tour	10.16.4	4	
			gray, sideritic (spherulites); some black "coaly" shale at
77/10	- 1160 -	7.7	the top
ر ۳ ماسد	- 1100	17	Siltstone and shale, medium dark to dark-gray, some olive-gray
			to dark-gray, micaceous; some shale, grayish-black to black,
22 60	7764	f.	carbonaceous; small amount of siderite
TTOU	- 1164	4	Sandstone (very fine) to siltstone, medium-gray, very shaly,
77 Ci.	- 1170		much carbonaceous material, highly sideritic, micaceous
11 OH	- LL/U	6	Siltstone and shale, dark-gray to olive-black, some dark-gray
· · · · · · · · · · · · · · · · · · ·		7	to grayish-black, small amount is highly sideritic; small
ממור	7704	n.l.	amount of black "coaly" shale
- LL (U	- 1194	24	Sandstone, medium light gray at the top to light-gray at the
			bottom, very fine to fine-grained, argillaceous, micaceous,
			and chloritic; some carbonaceous material at the top, some-
7701	The sales of the sales	-0	what sideritic
المهالا عاسا	- 1212	18	Sandstone, very light gray and medium-grained at the top to
1010	7 001	30	light brownish gray and fine-grained at the bottom
de bude by	- 1231	19	Sandstone, light-gray with some dark-gray (shaly) and dark-gray
		***	shale in the upper part, very fine to fine-grained, some
			medium grains, sideritic; some grayish-black to black shale
1021	- 1240		with carbonaceous streaks in the lower part
مادل کامان	- 46°YU	9	Shale, dark-gray to grayish-black, some grayish-black to black
12/10	- 1252	12	(carbonaceous); small amount of dusky-brown siderite
m market	to be I be	Ja 6	Siltstone, medium dark to dark-gray with black carbonaceous
			streaks, shaly, micaceous

Charles de accessos	Flan	499		Mind almon	
****	***			Thicknes	
	1252	NAMES.	1318	- 66	Sandstone, light-gray, very fine to fine-grained, fine- to
	······································		THE RESIDENCE CONTRACTOR OF THE PROPERTY OF		medium-grained (subrounded) in the lower part, argilla-
					ceous; a large amount of dark-gray siltstone with black
ţ					carbonaceous streaks at the top; small amount of siderite
	·		Melaatta etattaaniidetti daksandesaksi oogele oo oo		at the bottom
	1318	wee	1323	5	Shale (very silty) to siltstone (very shaly), dark-gray, mica-
	ere a rangagungan in againmin	Marie	· · · · · · · · · · · · · · · · · · ·	harbonia antico anticolori di chiche e e que mengacama personalitare e se	ceous, sideritie
	1323		1348	25	Sandstone, light-gray, some light brownish gray (sideritic),
					fine to medium-grained, subrounded, fine to very fine at
					the bottom, argillaceous; shale, dark-gray to grayish-black,
	******				a large amount at the top to some at the bottom; small amount
		-			of siderite
	1348	sacto.	1353	5	Shale, dark-gray
	1353	exerci	1373	20	Sandstone, very light to light-gray, fine- to medium-grained,
				e e e e e	subrounded -
	1373	1000	1380		Shale, dark-gray to grayish-black; small amount of medium dark
· · · · · · · · · · · · · · · · · · ·		************		e e e e e e e e e e e e e e e e e e e	gray siltstone; small amount of dusky-brown siderite
,	1380	onts .	1403	23	Shale, dark-gray to grayish-black, interlayered with light- to
				en e de la company de la compa	medium-gray siltstone to very fine sandstone, mostly shale
· · · · · · · · · · · · · · · · · · ·				e de la contraction de la cont	at top and sandstone at the bottom; small amount is sideritic
	1403	epect	1418	15	Sandstone, light to medium light gray, very fine to medium-
	·	**********	11 11 11 11 11 11 11 11 11 11 11 11 11	······································	grained, some coarse grains at the bottom, highly argilla-
e Nganganga	<i>4</i> 4				ceous, a few breaks of dark-gray to grayish-black shale
76	1418	enemp enemp	1430	12	Sandstone, very light gray, medium- to coarse-grained, some
	C		***************************************	Marie de destructulos de alde este como como como e e e e conseguenco e	very fine grains
			***************************************		CREENBRIER LIMESTONE, 70 FEBT
	1430	exap	1447	17	Limestone, light olive gray to olive-gray; small amount of
					medium dark gray to dark greenish gray shale with tiny
	en e				dusky-brown siderite spherulites (Mauch Chunk horizon?):
					some spherulites in the limestone
	1447	9400	1452	5	Limestone, moderate yellowish brown to olive-gray, slightly
					sendy (fine to medium, well-rounded); some dark greenish
					gray shale, very sandy in part
	1452	swep ,	1462	10	Limestone, light-gray to light olive gray, mostly colitic at
		7	i e e e e e e e e e e e e e e e e e e e	THE CONTRACTOR CONTRAC	the top to very sandy at the bottom (very fine to fine,
	•				rounded)
	1462	ans	1467		Sandstone (highly calcareous) to limestone (very sandy), white
		,,			to very light gray, very fine to fine-grained, rounded.
					some medium grains
	1467	*****	1482	15	Limestone, light olive gray to light brownish gray, very light
					gray at the bottom, colitic
	1482		1490	8	Lime stone, very light to light-gray, very sandy (very fine),
					very silty
	1490	2440	1496	6	Limestone, light olive gray, very sandy and very silty; some
			*		light-gray, highly calcareous, very fine to medium-grained
·				the state of the s	sandstone in the lower part; some medium-gray shale
	1496	ang.	1500	<u></u>	Limestone, light olive gray, highly colitic; silty to a medium
	*		- · · · · · · · · · · · · · · · · · · ·	*	light gray, highly calcareous siltstone, somewhat sandy
					(very fine to coarse), some medium-gray shale
	·			·	POCONO FORMATION, 590 FEET
	1500	1000	1.507	7	Shale and some silt stone, greenish-gray to medium-gray,
			- ·	**************************************	speckled with siderite spherulites; some dark-gray to
	THE STATE OF STATE OF STREET		orional was Assault and	The second secon	grayish-black shale
	1507	***	1530	23	Siltstone to sandstone (very fine), greenish-gray to medium-
					gray, somewhat sideritic
	7500		7 2 70		
	1530	2005	<b>ムフク</b> ロ	28	Sandstone, very light gray, some light-gray, fine-grained,
			····		slightly calcareous; some greenish-gray siltstone and shale
	#1-Manual			MINISTER OF STREET STREET, STREET STREET, STRE	at 1435 to 1443 (Continued on p. 7)

(OVER, p. 8)

	* · · · · ·			
	MID.		m. Thickne	
111.11. 18 - 1	1558	- 1573	1.5	Siltstone, light-gray to light brownish gray and greenish-gray,
		الرامينات المالية .		very fine to medium-grained, somewhat calcareous
	1573	- 1600	27	Siltstone to sandstone (very fine), medium-gray, some coarse sand grains; small amount of dark-gray silty shale
	1600	- 1612	2 12	Sandstone, very light to medium-gray, very fine to coarse-
				grained, subangular to subrounded, silty, slightly calcareous
	1612	- 1628	3 16	Sandstone, light-gray, fine-grained with a little siderite at
8				the top to light-gray and light-brownish gray (somewhat sider-itic), very fine to medium-grained sandstone in the middle
				part; in the lower part, sandstone, light brownish gray, very
				fine to fine-grained, highly sideritic; some dark-gray silt- stone and shale and a little siderite in the middle part
	1628	_ 1604	67	Shale, dark-gray, some olive-black to dusky yellowish brown
	allow trace when the		) 0;	(highly sideritic); some medium dark to dark-gray siltstone
	1695	- 1743	3 48	Shale, dark-gray: siltstone, medium to medium dark gray: small
				amount of derk to dusky yellowish brown, highly sideritic
				shale and siltstone
	1743	- 1784	· 41	Shale, dark-gray, some dusky yellowish brown (highly sideritic),
				silty; some medium dark gray siltstone
	1784	- 2006	5 222	Siltstone and shale, medium dark to dark-gray, many of the sam-
				ples contain small amounts of dusky yellowish brown (highly
				sideritic), small amount of dark-gray to grayish-black from
				1980 to 2006!
	2006	- 2022	2 16	Shale, dark-gray with some grayish-black at the top to dark-gray
	2000	0004	11.	and grayish-black at the bottom
	2022	- 2036	5 14	Shale, dark-gray to grayish-black, some dark-gray (Sunbury Shale);
				contains a trace of light-gray pyrite; very fine sandstone to siltstone at the bottom (Berea horizon?)
				DEVONIAN SHALES, 3424 FEET
	2036	- 2090	54	Siltstone and shale, medium- to dark-gray
		- 540I		Not described
	-	- 5460	No. 16.	Shale, black, some brownish-black, very highly carbonaceous;
, - 1 mm + 1 mm				pyritic in part, very highly calcareous at the bottom
1				HUNTERSVILLE CHERT, 194 FEET
	5460	- 5463	3 3	Shale and siltstone, brownish-gray, very highly micaceous
			Ţ	(metabentonite); limestone, brownish-black, shaly
	5463	- 5469	6	and the second of the second o
	-1.70	ا ب ا ر	,,	in the lower part
		- 5474	-	Limestone, brownish-gray with some light-gray, shaly, cherty
	J4/4	- 5478	}	Chert, very light gray (chalcedonic) to a brownish-gray, some- what shaly, cherty limestone
	5478	- 5486	5 8	Limestone, brownish-gray, some brownish-black in the lower part,
				shaly, very cherty to a light-gray chert (translucent)
	5486	- 5495	5 9	Limestone, brownish-gray, very cherty to a light-gray, calca-
				reous chert (mostly chalcedonic); some brownish-black, very
				shaly limestone at the bottom
	5495	- 5 <b>5</b> 0 <u>:</u>	5 10	Chert (calcareous) with some limestone, light-gray to brownish-
	جيو پخ غير هنو		and a second	gray; the chert is transparent to translucent
	5505	- 5512	7	Limestone, brownish-gray, some brownish-black, shaly; chert,
				brownish-gray (calcareous) to light-gray (mostly chalcedonic);
į.	-			a large amount of brownish-black to black, calcareous shale
	5570	- 5521	9	at the bottom
	مسائد المرد المد	- 752	> 7	Chert, light- to medium-gray and brownish-gray (highly calca- reous), shaly; some brownish-black to black, shaly limestone
	يدران مع فتح	سيدموسو		to calcareous shale in the lower part
	JJZL	- 5530	)9	Chert to silicified shale, medium- to dark-gray with light-gray
				spots, very highly calcareous
	W.			A

	THE RESERVE OF THE PROPERTY OF			
	Top.	Bottom.	Thickne	SS.
in the second of	5530 -	- 5539	9	Chert (calcareous, argillaceous) to shale (silicified),
	Promote Construction of the Section Construction Co.			highly calcareous to limestone (very shaly), medium-
			£	gray to brownish-gray, some brownish-black, dolomitic at the top
	5539 •	- 5543	. 4	Chert, white to light-gray, chalcedonic; chert (calcareous) to
			\$-	limestone (shaly), light-gray to brownish-gray, some brownish-black, generally darker at the bottom
	5543	5574	31	Limestone, brownish-gray, some light-gray, very shaly, very cherty to calcareous chert, somewhat dolomitic, mostly chert at 5554 to 5555!
	_5574 .	- 5609	35	Chert (highly calcareous) with some limestone (silicified), medium-gray to brownish-gray and brownish-black, shaly in
an a supple of the foreign of the		· Promphogon or appropriate make		part, somewhat dolomitic
	5609	- 5613	4	Siltstone to silicified limestone, medium-gray to brownish-gray
	ma na mana ana ana ana ana ana ana ana a	······································	ann an an an an ann an an an an an an an	and dark-gray, glauconitic; shaly in part; some milky to transparent chert; a large amount of ordinary chert at the bottom
	5613 .	- 5654	41	Chert (calcareous) and some limestone (silicified), shaly),
				medium-gray to brownish-gray, some brownish-black, slightly
				dolomitic; a large amount of brownish-black (shaly) at 5619
Orani		e i i i i i i i i i i i i i i i i i i i	energitanser er om er entat fortensommen seiner	to 56221, somewhat shaly (fine to medium) and silty and glauconitic at the bottom
				ORISKANY SANDSTONE, 105 FÆT
	5654 .	- 5664	10	Sandstone, light-gray, fine- to medium-grained quartz (milky
		Fig		to transparent), rounded, some coarse grains, somewhat calca- recus, a large amount of black interstitial material ("dead" oil"?)
	E6611.	- 5686		
	2004 -	- 7000 -	26	Sandstone, light-gray (with black interstitial material) at the top to very light gray, very fine to fine-grained, subrounded,
				some medium grains, mostly fine-grained from 5673 to 56761, fine- to coarse-grained at the bottom, somewhat calcareous
	5686	- 5740	54	Sandstone, very light to light-gray, very fine to fine-grained,
				subrounded, contains some black interstitial material, some-
		· Marin and a second	to the motion (i.e., a constitute for the constitute of	what calcareous, some medium grains at 5707 to 57091. mostly
		- Order relations to the control to the		fine-grained at 5709 to 57141, highly calcareous at 57221,
			· · · · · · · · · · · · · · · · · · ·	mostly fine-grained at 5729 to 5730, fine- to coarse-grained at 5737 to 5740
	5740 -	- 5743	3	Sandstone, light-gray, very fine grained, some fine grains,
	8			calcareous
	5743 -	- 5746	3	Sandstone, light-gray, very fine grained at the top to fine-
				grained at the bottom, highly calcareous, some dark-gray
	5746 .	- 5753	7	(silty and shaly) at the bottom
			·	Sandstone, light-gray, very fine to medium-grained, somewhat calcareous, contains a small amount of dark (shely) material, very light gray and fine- to medium-grained at the top
	5753 -	- 5759	6	Sandstone, light-gray, very fine to fine-grained, calcareous, some dark (shaly) material
				HELDERBERG FORMATION, 51+ FEET
	5759 -	- 5703	4	Sandstone, light- to medium-gray, some dark-gray (very shaly), very fine grained, highly calcareous
	5763 -	- 5770	7	Sandstone (highly calcareous) to limestone (very sandym) very
		Control Company of the Control		shaly) to calcareous shale, light- to dark-gray, somewhat cherty
	5770 -	5773	3	Limestone (sandy and silty) to a highly calcareous shale, dark-
				gray to grayish-black, with some light- to medium-gray, very
			#11.	cherty
				and the company of the contract of the contrac

(Contonued on p. 9)

		Thickness.	
5773	- 5778	5 Sil	tstone and chert (calcareous) to limestone and calcareous
			shale, light-gray to brownish-gray, some dark-gray to
	7		grayish-black
5778	- 5783	5 Ser	dstone, medium-gray to brownish-gray, some dark-gray (very
			shaly) at the top, very fine grained, some fine to medium
			grains, very fine to medium-grained at the bottom, highly
			calcareous, very silty
5783	- 5787		estone, dark-gray and brownish-gray to brownish-black, some
and serve all a serve			light-gray, very sandy (very fine to fine), silty
5787	- 5796		estone (very sandy), to sandstone (very fine to fine, highly
		***************************************	calcareous), medium-gray to brownish-gray, with light-gray
-2-m-c- /		,	spots, some grayish-black (shaly)
5796	- 5802		estone, medium- to dark-gray, some light-gray, very silty
		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	and cherty to calcareous chert, shaly; some grayish-black,
w 0	~ ~ ~ ~ ~		calcareous shale
5802	- 5807	5 Che	rt (calcareous) to shale (highly silicified), very silty
			and highly calcareous), light- to medium-gray; some dark-
~2 (** de 100	~~~		gray to grayish-black, calcareous shale
5507	- 5810		rt (calcareous) to shale (highly silicified and highly
			calcareous), light- to dark-gray, silty
	5810	Tot	al depth

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