

Tuc-4 -7-11/2 1-32-7-302 Hamilton + Marcellus shales 7802-8289 Onontagan Group 8289-8483 Helderberg type line 8403-8795 Orishang sand 3505 - 8538 Heldeberg line 9538 - 9085 10-9085 Gas porker 3630-8633 -100 MEF Well plugged + abandoned

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TOTAL LENGTH OF HER PROPERTY



Pork District, Tucker County, W. Va. Ty Cumberland & Allegheny Gas Co., 800 Union Trust Bldg., Pittsburgh, Pa. Located 2.1 mi. S. of 39° 05' and 4.4 mi. W. of 79° 20' - SC - Davis Quadrangle. Drilling commenced June 1949; completed September 1950. Acidized September 26, 1950. Gas pocket at 8630-86331; 100,000 cu. ft. Plugged back to 86501. Section based on samples from 7759 to 90851; examined by Russell R. Flowers. Record to RCT from Flowers May 31, 1951. Top. Bottom. Thickness. Shale, grayish-black to black, carbonaceous 7759 - 7775 16

(1)7 - (11)		TULLY LIMESTORE, 27 FEET
7775 - 7786	11	Limestone, dark-gray to olive-black, very fine textured, very
1.1.72 1 1 9 9		shaly, a very large part of these samples are grayish-black
		to black shale
7786 - 7792	6	Limestone, dark-gray to olive-black, very fine textured, very
		shaly; some olive-gray to grayish-black, calcareous shale;
		a large amount of grayish-black to black shale
7792 - 7802	10	Limestone to calcareous shale, olive-black and brownish-black
A SANGE OF STATE OF THE STATE O	* .	to grayish-black; a very large amount of grayish-black to
		black shale
		HAMILTON AND MARCELLUS FORMATIONS, 487 FEET
7802 - 7827	25	Shale, grayish-black, some grayish-black to black (carbonaceous);
		small amounts of olive-black to brownish-black, shaly lime-
· · · · · · · · · · · · · · · · · · ·		stone
7827 - 7852	25	Shale, dark-gray to grayish-black, some grayish-black to black
7852 - 7917	65	Shale, grayish-black, some grayish-black to black (many of the
t		samples contain cavings)
7917 - 7973	56	Shale, grayish-black to black, carbonaceous
7973 - 8158	185	Shale, grayish-black, some grayish-black to black (carbonaceous)
8158 - 8183	25	Shale, black (highly carbonaceous) and grayish-black to black
8183 - 8197	14	Shale, grayish-black to black
8197 - 8206	9	Shale, dark-gray, calcareous in part
8206 - 8226	20	Limestone (very shaly) to shale (calcareous), dark-gray to
0.00		olive-black
8226 - 8281	55	Shale, black (highly carbonaceous) and grayish-black to black,
		calcareous in part, somewhat pyritic in the lower part; small amounts of white vein calcite
8281 - 8289		Siltstone, brownish-gray to brownish-black, very shaly, very
OZOT - OZOA	O	highly micaceous, pyritic (bentonite), 20%; shale, dark-gray
and the second s		to black (carbonaceous), highly calcareous in part; trace of
		vein calcite
		HUNTERSVILLE FORMATION, 117 FEET
		and Needmore Shale (?)
8289 - 8308	19	Limestone (very shaly) to shale (highly calcareous), grayish-
		black to black, carbonaceous; about 20% of the top two
		samples is a brownish-gray to brownish-black, very highly
g		micaceous, pyritic, shaly siltstone (bentonitic); some
	ξ	black carbonaceous shale; a small amount of white vein
		calcite in the upper part
8308 - 8326	18	Shale, grayish-black to black, carbonaceous, pyritic and calca-
		reous in part; a moderate to large amount of dark-gray calca-
		reous shale
2004 2004	30	Chill walker Arch to Arch more calcusored concernated black

8326 - 8336

10

to black shale (Depth corrected from 8336 to 8333) (OVER)

Shale, medium dark to dark-gray, calcareous; some grayish-black

		. Thickne	
8333	- 8336	3	Chert, medium dark gray, calcareous to a dark-gray and grayis
dong	Onlin	· · · · · ·	black shaly limestone; a large amount of cavings
	- 8340	4	Shale, grayish-black to black, siliceous with some medium dark to dark-gray chert
8340	- 8346	6	Shale, grayish-black to black, highly silicified, calcareous in part
8346	- 8365	19	Shale, grayish-black, some grayish-black to black, silicified in part
8365	- 8372	7	
8372 -	- 8384	12	Shale, grayish-black, some black
	- 8393	9	Shale, grayish-black to black, silicified in part; small amount
			of medium- to dark-gray shaly chert
8393.	8396	3	Shale, grayish-black to black, silicified to shaly chert
	- 8403	7	Siltstone (very cherty), medium-gray, mottled with dark-gray
			to grayish-black, a large amount of grayish-black (very shaly), highly calcareous
8402	8/17.5	7.0	HELDERBERG FORMATION (?), 102 FEET
	- 0-7.1-)		Siltstone and sandstone (very fine), medium- to dark-gray, some grayish-black (shaly), highly calcareous to silty and sandy limestone
8413	- 8420 -	7	Limestone, mottled light- and dark-gray (withwhite to light-
		*	gray spots and grayish-black, shaly streaks), very sandy
		**************************************	(very fine) and silty, somewhat cherty, contains fossil fragments
8420 .	- 8423	3	Limestone, medium- to dark-gray (with white to light-gray
			spots and grayish-black shaly streaks), very sandy, (very fine), somewhat cherty
8423 .	8439	16	Limestone (very sandy) to sandstone (very highly calcareous),
- 110-713	The second secon		medium light to medium dark gray, very fine to medium- grained, subrounded (the largest grains are rounded), con-
84.20	- 8444		tains much shaly material in the upper part
		5	Limestone, light- to medium-gray mottled with dark-gray (shaly) material, very sandy (very fine to medium-grained)
3444 .	- 8450	6	Limestone (sandy, fine) to very fine, silty sandstone, medium
8450 -	- 8459	9	dark gray to dark-gray, contains much dark (shaly) material Limestone (very sandy) at top to sandstone (very highly calca-
			reous) at the bottom, medium-gray (with dark-gray shaly spots)
			very fine to fine-grained, some medium (rounded) grains.
g		an annual and an analysis of the second second	contains much dark (shaly) material
8459 -	- 8463	4	Sandstone (very fine, highly calcareous) to limestone (very sandy), medium-gray, silty, some fine to medium (quartz)
8463	- 8465	2	grains, some dark (shaly) material
, COP-	- UTO)		Limestone (very sandy) to sandstone (very highly calcareous), mottled light- and dark-gray, very silty, much dark (shaly)
8465	- 8472	~	material
340) +	• 0472	7	Sandstone, medium-gray, some dark-gray (very shaly), very fine grained, some fine grains, silty, very highly calcareous,
8470 -	8474	9	more shaly in the lower part
- 14 -		<u></u>	Limestone (very sandy) to sandstone (very fine, highly calca-
25 %	The second secon	a ka ka ka manaka ka	reous), medium- to dark-gray, some light-gray, some grayish-black, very silty, a large amount of dark (shaly)
Qlimi.	Ohoo		material
J4/4 -	8480	. 6.	Limestone (very sandy) to sandstone (very fine, highly calca-
			reous), medium- to dark-gray, very silty, shaly: some fine
		an and the second second	to very coarse, milky quartz grains

(Continued on p. 3)

		75 - 1 4	
			Thickness.
÷	9400	- 8484	4 Siltstone to sandstone (very fine), dark-gray to grayish-
	74.04.	0 1.00	black, very shaly, highly calcareous
	0404	- 8488	4 Sandstone, medium-gray (with dark-gray, very shaly streaks),
	01.00	01.05	fine to very fine, silty in part, highly calcareous
	8488	- 8491	3 Sandstone (very fine) to siltstone, medium-gray (with dark-
	Mi. mm	<i>~</i> 11	gray, very shaly streaks), highly calcareous
	9 491	- 8493	2 Sandstone, medium-gray, very fine to medium-grained, shaly,
			to a very sandy (very fine) and silty, grayish-black shale.
			highly calcareous
	8493	- 8500	7 Shale, (very silty) to siltstone (shaly), grayish-black to
			black, sandy (very fine) to a very fine to medium-grained,
	<i>-</i>		medium-gray sandstone, highly calcareous
	8500	- 8505	5 Shale, grayish-black to black, silty to a dark-gray and
			grayish-black, shaly siltstone, highly calcareous, sandy
			(very fine)
	8505	- 8505	Siltstone, medium- to dark-gray, sandy (very fine), highly
			calcareous; some grayish-black to black, silty shale
			SHEAR ZONE (?), 3 FEET
	8505	- 850 7	2 Sandstone, very light to light-gray, fine-grained, some medium
			and some very fine grains, somewhat calcareous; some silt-
			stone, medium- to dark-gray, highly calcareous, shaly to a
Ť.			silty shale (grayish-black); a large amount of dark-gray to
			grayish-black shale (cavings?)
	8507	- 8508	l Siltstone to very fine sandstone, medium- to dark-gray, highly
	- 1		calcareous, somewhat shaly to a silty, grayish-black shale;
			some very light to light-gray, fine- to medium-grained sand-
		· ·	stone (mostly broken into individual grains)
			ORISKANY SANDSTONE. 6 FEET
	. 8508.,	- 8514	6 Sandstone, very light gray, fine to medium-grained, some
			coarse grains, subrounded to rounded, quartzitic (mostly
			clear and glassy quartz), much of this sandstone is broken
			across the sand grains, somewhat calcar eous
	· · · · · · · · · · · · · · · · · · ·		HUNTERSVILLE FORMATION OR NEEDMORE (?) SHALE 5 FEED
	8514 ·	8517	J Shale, grayish-black, some grayish-black to black (this shale
	0622	~~~~	1s not cavings)
	0517	- 8518	1 Shale, grayish-black; sandstone (probably very light gray
			cavings). This sample is too highly contaminated with iron
	OFTO		rust to describe
	O)TQ .	- 8519	1 Shale, grayish-black, some grayish-black to black; small amount
		5	of very light gray sandstone. (This and the above sample
			may represent another shear zone)
	RETO '	0800	ORISKANY SANDSTONE, 19 FEET
	0)19 -	- 8 § 20	1 Sandstone, light- to medium-gray, fine to medium-grained,
- Configura			subrounded to rounded, quartzose, slightly calcareous, con-
	೧ ೯೯೧	- 8522	tains a small amount of black interstitial material
	0320.	- 0722	2 Sandstone, very light to light-gray, very fine grained, some
	9500	Oror	ine (rounded) grains, quartzitic, calcareous
	0726 -	- 8525	5 Sandstone, light to medium light gray, very fine grained.
	8505	- 8527	nighty catcareous
		- 6528	2 No sample
	1201	- 0,20	l Sandstone, light to medium light gray, very fine grained,
	8528 -	- 852A	nighty catcareous
	۳ فالع ترف	- 0//0"	2 Sandstone, light-gray, fine-grained, some medium (rounded)
			grains, somewhat calcareous; a large amount of dark-gray to
ξ,			black shale-(cavings?)

Mam	70 a + d a	6732-4 -7	
	Bottom.	-	
- 0)((0	- 8538	8	Sandstone, very light to light-gray, fine to very fine, a fev
			scattered medium (rounded) grains, quartzitic; highly
		4	calcareous
orno	OFLA		HELDERBERG FORMATION, 246 FEET
85 38	- 8540		Sandstone, light-gray (with medium- to dark-gray shaly streaks),
0460	C = 1. 1.	*	very fine grained, some fine grains, very highly calcareous
0)40	- 8544		Sandstone, medium light to medium dark gray, very fine grained,
No.			very highly calcareous, with spots of sandy limestone; some
	`		dark, shaly interstitial material in the lower part, some
	En will me t		medium sand grains at the bottom
8544	- 8549	5	Sandstone (very fine, very highly calcareous) to limestone
			(very sandy), light- to medium-gray, contains some dark,
····			shaly, interstitial material
8549	- 8551	2	Sandstone, light-gray, very fine to fine-grained, highly calca-
0.00	Company to	,	reous
o551	- 8554	3	Sandstone, light- to medium-gray, yery fine grained, very highly
en so so t.	:		calcareous with some sandy limestone, very shaly in part
o554	- 8555	1	Limestone, medium-gray, very sandy to sandstone, very tine
			grained, some fine grains, contains some dark (shaly) inter-
) مند مد مورج	00		stitial material
לל לם	- 8558	3	Limestone, medium- to dark-gray with some grayish-black (very
and the second second			shaly to shale), very sandy to sandstone (very fine, highly
وعامد معال	GP / ~	one of the second	calcareous)
סלכם	- 8567	9	Sandstone (very highly calcareous, very fine) to limestone (very
Sieko	سدياذهون.	~	sandy), medium-gray, some dark-gray to grayish-black (shaly)
7000	- 8575	8	Limestone, dark-gray to grayish-black (with light-gray spots),
			very silty to a very highly calcareous, very shaly silt-
Qini	Qrnn		stone
97/2	- 8577	2	Shale, grayish-black to black, highly calcareous, sandy (fine,
ರ್ಷವರ	gran		rounded), somewhat cherty
9717	- 8579	2	Sandstone, very light to light-gray, very fine to fine-grained,
8570	- 8584		some medium grains, quartzose, calcareous in part
シングフ	- 4704	5	Sandstone, light-gray (with some medium-gray, shaly spots in
		-	the lower part), fine-grained, many medium grains in the
			lower part, subrounded to rounded, highly calcareous at the
959h	- 8587		top to a very sandy limestone at the bottom
O JOHA	- UJU/	3	Sandstone, medium-gray to dark-gray (limestone spots) to grayish-
			black (very shaly), very fine to medium-grained, highly calca-
2527	- 8592		reous
3000	- 0)72	5	Sandstone, light-gray with medium-gray spots, very fine to fine-
8500	- 8597		grained, highly to very highly calcareous
. UJZC	- 4071	5	Limestone, light- to medium-gray (with dark-gray, very shaly
8 507	8607	· ~ 10 · ·	streaks), very sandy (very fine); some fossil fragments
	- 000/	10	Sandstone, very light to light-gray, very fine to fine-grained,
8607	- 8608		highly calcareous
7007	- 0000		Sandstone, light- to medium-gray, very fine to fine-grained,
8608	- 8616	8	highly calcareous, somewhat shaly in part
	- 0020		Sandstone (very highly calcareous) to limestone (very sandy),
8616	- 8621	5	light to medium-gray, very fine to fine-grained
ا المالية لبات			Sandstone (very highly calcareous) to limestone (very sandy),
			medium-gray (with light-gray spots), some dark-gray (shaly),
8621 .	- 8623	2	very fine to medium-grained
" بيشان يون سه ب	The second second		Limestone, medium- to dark-gray, very sandy (very fine to
-8600	0400	en e	fine-grained)
8623 .	- 0030	7	Limestone, medium- to dark-gray (with light-gray spots), very
			sandy (very fine to fine), silty and cherty, shaly in part
			, 5 Tr. Class

(Conti naed on p. 5)

	لكون				
	Top.		Bottom.	Thickne	\$S _e
	8630	nuich.	8637	7	Limestone, dark-gray to brownish-black (with light- to medium-
					gray spots), very sandy (very fine), silty, cherty, very shaly in the lower part
	-8627		8646	·	Timostano Paris amenina del 12 12 12 12 12 12 12 12 12 12 12 12 12
	00)1	12372	0040	7	Limestone, Mark-gray to grayish-black, (with light-gray spots),
				4	very shaly and silty, somewhat sandy in the upper part (very fine)
	8646	- NATES	86 5 3	7.	Limestone, very light to medium-gray, very sandy (very fine to medium-grained)
	8653	roem	8663	10	Limestone, light- to dark-gray, sandy (fine to very fine)
	8663		8692	29	Limestone, medium- to dark-gray, (with light-gray spots), sandy (very fine-)to fine-grained, mostly very fine at the
	ę.		t		bottom)
•	8692		8703	11	Limestone, medium- to dark-gray (with light-gray spots), very
	t				sandy (very fine), cherty; at the bottom, very sandy to very
					fine sandstone (very highly calcareous), very cherty
	8703	455A9	8733	30	Limestone, dark-gray to grayish-black (with light- to medium-
					gray spots), very shaly to a highly calcareous shale, silty, cherty in the upper part
	8733	eracić	8752	19	Limestone, grayish-black (with light-to medium-gray spots),
					very shaly
	8752	amel	8769	17	Limestone, grayish-black to black, some medium-gray, very shaly
	9760		8784		to a highly calcareous shale
	0103	****	0/04	15	Limestone (very shaly) to shale (calcareous), grayish-black to black
	878h.		8885	101	(HUNTERSVILLE OR MARCELLES (?), 101 FEET
	0104	****	0000	101	Shale, black and grayish-black to black, highly calcareous,
					siliceous, much of this shale contains very fine dissemi-
					nated pyrite; some what vein calcite; less calcareous toward
					the bottom; a very small amount of chert in the bottom few samples
	900		0000		HELDERBERG FORMATION, 100 FEET
	0000	*****	8888		1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
					some medium- to dark-gray (with light-gray spots) limestone,
	6000		8904	3 /	very shaly, somewhat cherty
			8909	16	Limestone, light to medium dark gray, very shaly, cherty
				5	Limestone, medium- to dark-gray (with light-gray spots), shaly, cherty, and silty (veryifine quartz crystals)
	8909	dulin	8916	7	Limestone, medium- to dark-gray, some grayish-black (shaly),
					some light-gray, somewhat cherty and silty; some fossil
			00-6		fragments
	8916	*****	8926	10	Limestone, medium- to dark-gray and brownish-black, some
					brownish-black to grayish-black (very shaly) at the top.
	0000		0000		very cherty, silty, somewhat shaly
			8935		Limestone, light- to dark-gray, somewhat shaly, silty, and cherty
	8935	Notice	OYJI	16	Limestone, brownish-black to grayish-black, very shalv to a cal-
	2057		8960	0	careous shale, chertym at the bottom, silty
	U971	GRAND	0900	9	Limestone, brownish-black (with light- to medium-gray spots),
	8960		8976	16	some grayish-black (shaly), very shaly, silty, and cherty
	-,		~/! V	Jan Co	Limestone, dark-gray to grayish-black (with brownish cast); at
					the top, shaly and very silty; at the bottom, very shaly and cherty
	8976		8989	13	Limestone (very shaly) to shale (highly calcareous), dark-gray
					with light- to medium-gray spots); some dark-gray to grayish-
					black, very silty in the upper part; small amount of light-
					to medium-gray chert and some fossil fragments
					a comunity

Top. Bottom.	Thickness.	
8989 – 9007		estone, dark-gray to grayish-black (with some light- to medium-gray spots), very shaly with some highly calca- reous shale, silty in the upper part, somewhat cherty,
** .	A C- Month	fossiliferous
9007 - 9028		estone, dark-gray to grayish-black, very shaly to a highly calcareous shale
9028 - 9043		le (highly calcareous) and some very shaly limestone, dark-gray to grayish-black, a few scattered fossil fragments
9043 - 9065	was a san a sa	estone, light- to medium-gray (with medium dark to dark- gray, shaly spots and streaks), very shaly, silty, some chert in the upper part
9065 - 90 80	15 Sha	le, (highly calcareous) to limestone (very shaly), grayish-black, some medium- to derk-gray (with brownish cast)
9080 - 9085	5 Sha	Le, derk-gray, calcareous; some medium to dark-gray, shaly Limestone; some medium light to medium dark gray chert
9085	Tot	al depth