



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS DIVISION 6

Parsons Quad.

Permit No. Tuc. 8 WELL I	RECORD		Oil or G	Gas Well Dry	KIND)
Company Natural Resources Corporation	TO COME A SERVICE COMMON PROCESSORY AS AND ASSOCIATION OF THE PROCESSORY OF THE PROC	mandata of the Addition of the Leading of the appropriate of the company court on the second	universitäteteitäätätäätäätäätäätää eritä esitääääätäätäätäätäätäätäääääätäätäääääää		ACCESSED AND ADDRESS OF THE PARTY OF THE PAR
Address P.O.Box 906, Morgantown, W.Va. Farm Tucker County Court Acres 245.39	Casing and Tubing	Used in Drilling	Left in Well	Packe	rs
Location (waters) Cheat River Well No. 1-2 Elev 1586	Size			Kind of Packe	X.
District St. George County Tucker The surface of tract is owned in fee by Tucker Co. Court	18 10 5 /48 OD	289 13"		Size of	
Mineral rights are owned by Tucker County Court & Parsons, W. Va. 5	/ My UU	3490 ¹ 5359 ¹		Depth set	
Orilling commenced Nav. 4, 1952 Orilling completed June 17, 1964	\$			Perf. top Perf. bottom_	
Date Shot Not Shot From To	Liners Used	Yanda Mijania ana ana ana ganara ana ina ina ina ina ina ina ina ina in		Perf. top	
With	<u>Alicasi</u> <u>excent al</u>	Sut 270	oulled of 52	Perf. bottom_	New Continues and the Continues of the C
/10ths Merc. in Inch	CASING CEME	ENTED	SIZE	No. Ft	Date
/olumeCu. Ft.	<u>5}" cesi</u>	ing set 1	n 25 bagi	B cement	
lbs. hrs. bbls., 1st 24 hrs.	No coal	NCOUNTERED		FEET	_INCHES
resh water 285 feet feet feet	FEET	rINC	HES	FEET	_INCHES

Oil			nrs. bbls., 1st 24 hrs.		NCOUNTERED A	ATFEE7	CINCHES
Fresh water	2851	feet	feet	No coal	INCHI	csfee1	:INCHES
Salt water N	one	£cet	feet	FEET	INCHI	esfee1	INCHES
Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Surface	Iellow	Soft	reper september to the consecutive server acceptantly consiste a server section to the server of the	and the second s	Chemung	formation	A PERSONALISM CONTROL DELL'ANCIAN CLUMBOURNISM ELECTRON DE STOCK DE CONTROL E ENGLÉ DE PRÈS DE CARRESTRA. «
Sand	gray	hard	10	25			
Shale	gray	sendy	25	503		THE STATE OF THE S	
Sand	gray	soft	207	255	1110 to an COE	anne hala	full
Shale	dark	sandy	255	295	Waver, 200	-290; hole	4444 ·
Sand	Sray	shaly	295	355 460	Portage-		
	le dk gra		355 460	631		26; no tes	10
Shele Sand &sh	dk gray		631	1085	and oper-o	00, 000	
Shale	dk gray	i . 6	1085	1235	40		
Sand	dk gray	hard	1235	1313		J. Company	
Shale	dk gray		1313	1610			
Shale ve		BOIT	1610	2086		#	
Sand & si		1	2086	2201			
Shale	dk gray	1 1	5201	2666			
Sand & sl	1	8	2666	8588		indimental constants of the constant of the constants of the constants of the constant of the con	
Shale	plack	soft, fisei	le 2838	3061	Genesee-	top	
				2007 Jahr 1994 Jahr	***	after any street.	
Shale	(404a,A)	to) soft	30 GL	3650	Hamilton	- rob	
	black			and the second s			
			3650	3724	Marcellu	a_ton	
Shele	F-10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	to soft		Urct	was Cartu	- 20 b	
and the time	black	fissile	3724	4061			
Shale	black	fissile	0/62			Control	美丽纳 斯
	27	hard	4061	4119	Hemilton	(repeated)	
Shale	dk gray	SOIT	4119	4182			
Shale &	dk gray	COTA	Sinks the /	and come alone and		The participation of the parti	
Shale	dk gray	cherty	41.62	4203			
Shale	dk gray	hard	4203	4270	1810505	777	
Shale	dk gray	limy	4270	4290	(SON)	CS)	
Shale	dk gray	enet.	4290	4290 4386		77 S	
		eoft				78	
						12576272	1966 c
2454			The state of the s				.
4 .			D-VOID ALL AND			0 63	
	,		tana aran gala∳i		10 miles	1000	The first transfer as Augustinia

Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth Found	Remarks
Shale	black.	soft, fiss	Authoritische Schollen (Schollen von Schollen von Schollen (Schollen von Schollen v	The state of the s		a statement of the control of the co	
Shele	dk gray	BOL A TIBE	ile 4386 4427	4427	Marcellu	s(repeated	Ų)
Shale		soft, fissi		4456 4747			
Shale		soft, liny	4747	4855			
Shale		soft, fissi		4907			
Shale		soft, limy	4907	4970		*	
Line	dk gray	hard	4970	5010	Lower S.	Linsgrove	
Shale	black	limy	5010	5079	DONOR C	F THOSTORD	
Shale	black	soft	5079	5280		The Control of the Co	
Lm & sh	dark	hard	5280	5329			
Shale	brown	soft :	5329	5 336	Brown Br	eak	· ·
Lime	dark	hard	5336	5369	Cornifer	pus-top	Vortina ra
Chert	dark	hard	5369	5393	Huntersy		SACRO CONTRACTOR OF THE CONTRA
Chert	brown	sandy	5393	5405	(areer, r	ine measur	
Chert	lt gray	hard	5405	5415	Jausaus-		
Chert	brown	sandy	5415	5455			· ·
Chert	black	hard	5455	5545	The State of the S		
	1					an-versicity of	
Sh & line	black	hard	5,845	5555		Approximation of the control of the	
Sand	prow	fine	5555	5570	Oriskany	top	ay acquisition
Sand	gray	coarse	5570	5575			ON THE PROPERTY OF THE PROPERT
Sand	gray	med lum	5575	5600	1 2 2 2 2 2		Social Commission
Sand	gray	fine	5 600	5 645			***
Line	dk gray	hard	5645	5650		in: to re-	
Sand	brown	coarse	5650	5660	and the standards of the	agas is a su	
Sahd	gray	fine	5660	5700			
Lime	dk gray	sandy	5700	5735	Helderbe	ronton	
Line	dk gray	very sand;		5754	116TGGIDE	18-005	
		502.4		1 6 7 6 7		3.	
Total del	oth			5754		Land Y & Co	#
Total del	oth - 12 m			5754			
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TOTAL TOTAL				5754			
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TOTAL GET TOTAL STATE OF THE ST				and the second		555S 1586	
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				and the second	-3156	555S 1586	

APPROVED Narural Resources Corporation Owner

St. George District, Tucker County, W. Va. Ey Natural Resources Corporation, P. O. Box 612, Morgantown, W. Va. Elevation, 1586' L. Permit Tuc-8.

Located 1.26 mi. S. of 39° 10' and 4.34 mi. W. of 79°35' - C - Parsons Quadrangle. Section based on samples from 0-4993; examined by Russell R. Flowers. Record from Flowers May 5, 1954.

M one T	7 m de de mes		<u></u>
		. Thicknes	
10 -	25	15	Siltstone and some shale, medium dark gray, some medium dark gray to olive-black, some medium-gray
25 -	120	95	Siltstone, dark-gray and brownish-gray to grayish-black shale:
~		and cond	siltstone, medium dark gray with greenish-olive casts, shaly
	A State of	er an	saturation of a state of the st
			in part; some calcified fossil fragments (brachiopods and
200	2/3	3. ***	rare gastropods)
120 -	TOT	41	Siltstone, brownish gray to dark-gray, argillaceous; some medium
3 (3	200		dark gray siltstone, shaly
161 -	TAO	29	Siltstone, medium dark to drak-gray with olive-gray and greenish-
			gray casts, shaly in part
190 -	220	30	Siltstone and some silty shale, medium to medium dark gray,
			highly calcareous in the upper part, moderately calcareous
			in the lower part; most of the calcareous material is fossil
			fragments
220 -	247	21	
	Say C etth	Supelio	Siltstone and some shale, medium dark gray, many calcified
241 -	255	14	fossilafragments
274	ررے	Tr -1	Sandstone (very fine) to siltstone, medium to medium dark gray,
مو شریع	~~~		some olive-gray, highly calcareous
255 -	לבנ	60	Siltstone, medium dark gray with greenish cast; some shale,
			medium dark to dark-gray
315 -	355	40	Siltstone, medium dark gray, some medium dark gray to dark-gray,
			somewhat calcareous, shaly in part, some calcified fossil
			fragments
355 -	400	45	Siltstone and silty shale, dark-gray to brownish-gray and
			promise place come of server of or ownients of said
			brownish-black, some calcified fossil fragments; siltstone
and the second second		n de la santa de la	and shale, medium dark to dark-gray; mostly medium dark to
400 -	420	00	dark-gray shale and siltstone from 384-3901
700 =	420	20	Siltstone and shale, medium dark to dark-gray; some medium light
1.00	1.00		to medium-gray siltstone, somewhat dolomitic
420 -	488	68	Siltstone, medium to medium dark gray and shale, medium-dark to
			dark-gray, from 450-460' siltstone, medium to medium dark
			gray with some grayish-black streaks and some calcified
			fossil fragments
488 -	51.5	37	Siltstone and shale, medium to medium dark gray, some dark-gray,
e de la companya de La companya de la co			small amount is slightly calcareous and somewhat delomitic
515 -	526	11	
J' wine J	220	ada ada	blitstone and shale, dark-gray; siltstone and some shale, medium-
			Siltstone and shale, dark-gray; siltstone and some shale, medium-dark to dark-gray; some medium-gray, slightly delemitic
526 -	569	43	
Jau -	ノリン	47	Siltstone and shale, medium dark gray, medium dark to medium
			gray with greenish cast in the lower part, some dark-gray
Taran bari da	***		siltstone and shale the side of the same state o
569 -	588	19	Shale and siltstone, medium dark to dark-gray, some medium-gray
* * # 1 <u>1</u> ;			(highly calcareous with fossil fragments)
5ౖ∂8 –		12	Siltstone and shale, medium dark to dark-gray
600 =	647	47	Siltstone, medium dark gray; siltstone and shale, medium dark
West death of			construction and state state state, medium dark
			gray to dark-gray; some calcified fossil fragments in the
			rower berg
فيسلان وبيدان			(OVER, p. 2)
			south the second

and the second of the second o

			ottom.	Thi		
	647	6510	674		27	Siltstone, medium to medium dark gray, some dark-gray, contains many calcified fossil fragments; a large amount
						of medium-dark to dark-gray shale in the lower part
	674	eco.	682		8	Shale, dark-gray; some medium dark gray to dark-gray silt- stone and shale
	682	espani	700	*	18	Siltstone and shale, medium-dark to dark-gray; some dark-gray shale; an occasional calcified fossil fragment
	700	46000	715		15	Siltstone, medium to medium dark gray; some dark-gray shale
			722		7	Siltstone, medium to medium dark gray, some dark-gray to brownish-black, silty shale
	722	1000	735		13	Silt stone and shale, medium-gray to dark-gray; small amount
						of dark yellowish brown shale
	735	-	775		40	Siltstone and shale, medium dark to dark-gray, a large amount of medium dark gray in the lower part
	775	no acto	795		20	Siltstone, medium to medium dark gray: some medium dark gray to
			elija d		5.1	grayish-black shale and siltstone
	795	4MD	80 9		10	No sample
	805	enten.	835		30	Siltstone, medium to medium dark gray; some medium-dark to dark-gray shale, a large amount at the bottom
	835	- COD	875		40	Siltstone, medium to medium dark gray with grayish-black shaly
						streak and some calcified fossil fragments; some medium-dark
					1. 5	to dark-gray shale
			885		10	No sample
	885	emo .	905		20	Siltstone and shale, brownish-gray to brownish-black interbedded with medium dark gray siltstone and shale, some calcified
	005		03.5		3.0	fossil fragments in the lower part
			915		10	Siltstone and shale, dark-gray, some medium to medium dark grov
			955		40	Shale, medium-dark to dark-gray, silty; siltstone, medium to medium dark gray
			975		20	Siltstone, medium dark gray, some dark-gray to brownish-gray and brownish-black; some medium dark to dark-gray shale
	975	ees03	995		20	Siltstone, brownish-gray to brownish-black and grayish-black, argillaceous, interbedded with medium-dark to dark-gray
						shale and some siltstone
	995	, ediede	1015		20	Siltstone, brownish-gray to brownish-black and grayish-black, argillaceous, interbedded with medium-dark to dark-gray shale and siltstone
1	.015	1825	1055		40	Shale, medium dark gray to dark-gray, interbedded with siltstone,
		(medium dark gray with a greenish-gray and olive-gray cast, some calcified fossil fragments: small amount of brownish-gray
• • .						
. 1	.055	****	1075		20	Siltstone and shale, medium dark gray, some medium to medium
						dark gray, moderate amount of shale, dark-gray to brownish-
						black and grayish-black, silty
1	.075	entin	1125		50	Siltstone, medium dark to medium-gray with elive-gray cast; a moderate to large amount of medium dark to dark-gray and
•				ŧ		some grayish-black shale
. 4	.125	entally.	1215		90	Shale, medium dark to dark-gray with moderate to large amount of interbedded medium dark gray siltstone with olive-gray
	21 2		1235		00	cast and rare calcified fessil fragments
	-		1255		20 20	Siltstone, medium to medium dark gray, slightly dolomite; some medium dark to dark-gray shale
- di	لدزرء	*****	الد الدراع عند		20	Siltstone, medium dark gray with olive-gray cast; shale,
1	.255	glada	1295		20	medium dark to dark-gray (somewhat discolored with heat?) Siltstone and shale, medium dark to dark-gray (most of the
						sample is discolored by excessive heat when drying)

	Bottom.		
(C)	- 1342	07	Siltstone, medium dark gray; moderate to large amount of moderate dark gray to grayish-black shale interbedded
			A 10 with siltstone and the state of the control of
1392	- 1407	65	Shale, medium dark gray and medium dark to dark-gray; silt-
			stone, medium dark gray with olive-gray cast; mostly shale in the upper part and at the bottom
1407	- 1430	23	Siltstone, medium to medium dark gray; some medium dark to dark-gray shale
	- 1485	55	Siltstone, medium dark gray; shale, medium- to dark-gray
1485	- 1510	25	Siltstone, medium dark gray with a very small amount of white calcite; some medium dark to dark-gray shale
1510	- 1610	100	Shale, medium dark gray to dark-gray; some medium dark gray
	reginate di Sala	A A A A A A A A A A A A A A A A A A A	siltstone; a large amount of siltstone from 1530-37' and 1549-62'
1610	- 1655	45	Shale and siltstone, medium dark to dark-gray, a large amount
1655	- 1714	59	of dark-gray at the top Shale, medium dark to dark-gray, some dark-gray in the lower
	And Supple 1. No.		part; some medium dark gray siltstone
1714	- 1755 -	41	Shale and siltstone, medium dark to dark-gray, some dark-gray
The state of the s	3000	~***	to black; some medium dark gray siltstone with olive-gray cast
エインク	- 1782	27	Shale, dark-gray, some dark-gray to grayish-black; some medium to medium dark gray siltstone in the upper part
1782	- 1790		Siltstone, brownish-black to grayish-black, very shaly: a large
		la migr	amount of medium dark to dark-gray shale
1790	- 1806	16	Shale, dark-gray and medium dark to dark-gray; a moderate amount
1.806	- 1827	21	of brownish-black to grayish-black siltstone Shale, medium dark gray, some dark-gray; some medium dark gray
WEST CONTROL OF THE	1 202	- Lude	to light-gray siltstone
1827	- 1860	33	Shale, dark-gray; shale and some siltstone, medium dark to dark-gray; some dark-gray to grayish-black shale at the bottom
1860	- 1890	30	Shale, medium dark to dark-gray, small amount of dark-gray to
1890	- 1930	40	grayish-black; some medium dark gray to blive-gray siltstone Shale, medium dark to dark-gray, small amount of grayish-black
	- **		to dark-gray; siltstone, medium dark gray with green and
	30//		olive casts
	1966	2111	Shale, medium dark to dark-gray, interbedded with some olive-gray to medium dark gray and dark-gray siltstone
7,00	- 1992	26	Siltstone, medium dark to dark-gray, some medium to medium dark gray, interbedded with some medium dark to dark-gray shale
1992	- 2047	55	Siltstone and shale, medium dark to dark-gray
2047	- 2065	18	Siltstone, medium dark to dark-gray; some medium dark to dark-
2065	- 2249	184	gray shale
	- 2265	16	Siltstone to shale, medium dark to dark-gray Siltstone, medium dark to dark-gray; some medium dark to dark-
	user in the state of	o Dan Du	gray shale and the dark-gray; some medium dark to dark-
_	- 2272	7	Siltstone, dark-gray, shaly
2272	- 2284	12	Siltstone, medium dark gray; some medium dark to dark-gray;
	error and produced and a second		a large amount of medium dark to dark-gray shale in the
2284	- 2305	21	lower part Shale and siltstone, medium dark to dark-gray, mostly medium
		300 miles	dark-gray siltstone in the lower part
2305	- 2315	10	Siltstone and shale, medium dark to dark-gray with grayish-black
	cont.		(carbonaceous) streaks, rare calcified fossiliferous fragments
	- 2374 - 2423	59 49	Shale, interbedded with siltstone, medium dark to dark-gray
	- 272)	~7	Siltstone, medium dark gray, moderate amount of dark-gray, shaly;
		*	a moderate amount of medium dark gray to dark-gray shale in

the upper and lower part

			Thickne	
	2423 -	2404	41	Shale and siltstone, medium-dark to dark-gray, mostly shale
	-1.76	~*~~	ana gast	from 2440 to 2450
	2464 -	2499	35	Shale and some siltstone, medium dark to dark-gray, a large
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	amount of siltstone in the upper part
	2499 -	2500	7	Siltstone (coarse) to sandstone (very fine grained), light- to
				medium-gray, moderately dolomitic
	2506 -		10	Shale, dark-gray, very silty
	2516 -	2531	15	Siltstone, (coarse), medium-gray, some medium to medium dark
	~	/2.		gray, slightly dolomitic
	2531 -	2564	33	Shale and siltstone, medium-dark to dark-gray, some dark-gray
	~ -/1.		The second	in the upper part
	2564 -	S00T	37	Siltstone, medium to medium dark gray, medium-gray and coarse
				in the lower part; a moderate amount of medium dark to dark-
	~/ ~3	~/~ »	- 1.	gray shale
	2601 -		14	Shale, dark-gray, silty
	2615 -	2000	51	Siltstone, medium to medium dark gray, some dark-gray in the
		/ +- 1 /-		upper part, small amount is dolomite; some shale, dark-gray
	~166	~/0#	**************************************	and medium-dark to dark-gray
	2666 -		19	Shale to siltstone, medium dark to dark-gray
	2685 -	2705	18	
	OFFICE	onlyly	1.7	ry shale and the war to be a little and the same of th
	2703 -	2/44	41	Siltstone, medium to medium dark gray; some medium dark to
		* 4.5		dark-gray shale; a large amount of medium-dark to dark-gray
	2744 -	2065	0 3	and some grayish-black shale in the lower part
	*		21	Siltstone and some shale, medium-dark to dark-gray
	2765 -	2770	11	Siltstone, medium dark to medium-gray, small amount is dolomite,
			- market	interbedded with a large amount of medium-dark to dark-gre-
				shale; some dark-gray to grayish-black shale; some dark-
٠.	2776 -	onoli.		gray to grayish-black shale in the lower part
	2//0 -	2/04	. 8	Shale, dark-gray, some medium-dark to dark-gray; some medium-
*	OPOL	0000	26	dark-gray to olive-gray, highly dolomitic siltstone
	2784 -	2020	36	, , , , , , , , , , , , , , , , , , , ,
				of medium dark gray siltstone in the lower part
	2820 -	つひづる	6 2	CENESEE (HARRELL?)FEET
	2020 -	2017	53	Shale, grayish-black and dark-gray to grayish-black, interbedded
	**			with medium dark to dark-gray shale, mostly dark-gray to
	2873 -	20/13	68	grayish-black in the lower part
	2017 -	67742	,00	Shale, grayish-black, a large amount of dark-gray to grayish-
	2941 -	2082	41	black in the upper part, contains very small amount of calcite
	land Jan Salar -	ムプンム	- Tailes	Shale, dark-gray to grayish-black with a very small amount of calcite
	2982 -	2007	15	
	2997 -		144	Shale, grayish-black, some grayish-black to black (carbonaceous) Shale, dark-gray to grayish-black, some medium-dark to dark-gray
	3141 -			Shale, dark-gray, interbedded with medium-dark to dark-gray.
	Jan 2 44	مله او مله ابر		
	3191 -	3301	110	contains a very small amount of calcified fessil fragments Shale, dark-gray and dark-gray to grayish-black; some medium-
	J == J ==	J J 4 42	and with all	dark to dark-gray
	3301 -	3335	34	Shale, grayish-black, some dark-gray to grayish-black, silty;
		المحلف فمنية فمنية فمنية	and the second of the second	some medium-dark to dark-gray siltstone and shale in the
				lower part
	3335 -	3353	18	Shale, dark-gray, a moderate amount of medium-dark to dark-gray.
	معيد من من مد	- حمل لفي جمل المدر		some grayish-black at the top and bottom
	3353 -	3844	491	Shale, dark-gray to greenish-black with small amount of
	, a se se se			me'dium-dark to dark-gray and brownish-gray siltstone in
	200			the upper part, mostly grayish-black in the lower part
	3844 _	2028	84	indiani, and a significant department of the second of the
	J044	J724	0-7	Shale, dark-gray to grayish-black, mostly grayish-black in the lower part
	3928 -	3956	28	and the second of the contract of the second
		1110	. 20	Shale, grayish-black (Continued on p. 5)
				h

Top. Bottom. Thickn	
3956 - 3981 25 3981 - 4003 22	Shale, dark-gray to grayish-black
	Shale, dark-gray, some dark-gray to grayish-black; trace of calcite
4003 - 4035 32	Shale, dark-gray to grayish-black
4035 - 4061 26	Shale, dark-gray, some grayish-black, a large amount of medium-
والمستربين ومستقل والمناف والمناف والمناف والمناف	dark to dark-gray; some medium dark gray siltstone in the
tight the companies as well	lower part
4061 - 4087 26	Shale and some siltstone, medium dark to dark-gray; some inter-
	bedded dark-gray to grayish-black shale
4087 - 4098 11	Shale, dark-gray, some medium-dark to dark-gray (shale and silt- stone), some dark-gray to grayish-black
4098 - 4167 69	Shale, dark-gray, some interbedded dark-gray to grayish-black:
	some medium dark gray, somewhat dolomitic siltstone; small
4167 - 4188 21	amount of calcite (fossil fragments?)
4167 - 4188 21	Shale, dark-gray to grayish-black, must is silty and dolomitic
	in part with small amount of dolomite; a large amount of
4188 - 4203 15	dark-gray and some medium-dark to dark-gray (silty) shale
4188 - 4203 15	Shale, grayish-black, interbedded with dark-gray to medium dark
4203 - 4267 64	gray shale and some siltstone
7207 - 7207 04	Shale, grayish-black; some olive-gray to dark-gray shale and
	siltstone, most of the samples contain a small amount of calcite
4267 - 4355 88	
	Shale, dark-gray to grayish-black, interbedded with medium-dark to dark-gray shale to fine siltstone, some of the samples
	contain a small amount of calcite
4355 - 4390 35	Shale, to fine siltstone, medium-dark to dark-gray; some dark-
	gray to grayish-black shale
4390 - 4407 17	Shale, dark-gray to grayish-black, silty, dolomitic in part:
	some medium to medium dark gray, dolomitic siltstone
4407 - 4450 43	Shale, medium dark to dark-gray with some siltstone. moderate
S. S. war	dark gray; some dark-gray to grayish-black shale
4450 - 4490 40	Shale, dark-gray to grayish-black; a moderate to large amount
blico bres	of medium-dark to dark-gray shale
4490 - 4528 38	Shale, medium dark gray to dark-gray with some grayish-black;
	a moderate amount of grayish-black shale at the top; a very
4528 - 4556 28	small amount of calcite
	Shale, dark-gray
4556 - 4630 74	Shale, dark-gray to grayish-black, a moderate amount of grayish-
4630 - 4643 13	black at the bottom, very silty
	Shale, medium to dark-gray, some dark-gray to grayish-black in the lower part
4643 - 4673 30	Shale, dark-gray; very small amount of white vein calcite in
	the middle and lower part
4673 - 4711 38	Shale, medium-dark to dark-gray, some dark-gray to grayish-black
_	from 4692-4700'; small amount of white to clear calcite at
here terting	
4711 - 4747 36	Shale, dark-gray, some dark-gray to grayish-black; a very small
4747 - 4860 113	amount of white vein calcite at the top and at 4735_391
117 TOO 113	Shale, grayish-hlack to black, calcareous with small amount of
4860 - 4930 70	vein calcite, slightly pyritic. carbonaceous
4860 - 4930 70	Shale, grayish-black to black, carbonaceous, somewhat pyritic
	calcite at the bottom; a large amount of grayish-black shale
4930 - 4941 11	at the bottom Shale black bighly carbonage on a general acceptance of the state of
e- are ' ' ' ge' è annun (Alas alles	Shale, black, highly carbonaceous, somewhat pyritic, calcareous
	in part, coaly and many of the pieces show slickensides

	Top.	Bottom.	Thicknes	s. Tully limestone, 47 feet
	4941	- 4953	12	Limestone, olive-gray to brownish-black, argillaceous, somewhat fossiliferous; very fine to extremely fine crystalline; a large amount of black slickendied shale;
				small amount of pyrite
	4953	- 4971	18	Shale, grayish-black to black, carbonaceous; calcareous in part; many of the shale pieces are slickensided; some limestone
		en e		as above
	4971	- 4988	27	Limestone, olive-gray to brownish-black, argilllaceous, pyritic in part, very fine to extremely fine crystalline; a moderate amount of grayish-black to black carbonaceous shale, calca-
				reques in part
:		2700	10/	HAMILTON AND MAR CELLUS SHALES ? . FEET
	4988	<u> </u>		Shale, brownish-black to grayish-black, highly calcareous, pyritic in part, some grayish-block, non-coleaneous, those of the follow
		1000		edwiner of product fight per to the other of the entire

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TUCKER COUNTY COURT NO. 1 WELL (Continued). Balance of record from Flowers Aug. 26, 1954.

	and the same of		: : : : : : : : : : : : : : : : : : :
	Bottom.		
5000 -	5017	.17	Shale, dark-gray to grayish-black, somewhat-pyritic, very
~~~ ~	200/	7.00	Simple amount of calcite
5017 -	5200	189	
5206 -	6065	59	is calcareous. Shale, grayish-black to black, carbonaceous, some of the
72VV -	920)	77	cuttings have slickensides
5265 -	รออก	25	Shale, grayish-black to black, calcareous in the lower part,
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1674	200	carbonaceous, somewhat pyritic
5290 -	5303	1.3	Shale, dark-gray, calcareous at the top to highly calcareous
1.474	and and the said		in the lower part
5303 -	5334	31	-Shale, grayish-black to black, highly carbonaceous, calca-
			reous, pyritic
			ONONDAGA AND HUNTERSVILLE CHERT, 218 FEET
5334 -	5344	10	Metabentonite, brownish-gray to dark yellowish brown, pyritic;
			shale, grayish-black to black, highly calcareous, pyritic
5344-	5359	15	Shale, grayish-black, highly calcareous, with some impure lime-
		* 1	stone; a large amount of metabentonite at the top and some in the middle and lower part, somewhat pyritic
5359 -	5271	l2	Shale, grayish-black, highly calcareous, somewhat pyritic
5371 -		. 4	Chert, light- to dark-gray (shaly) and some dark-gray, sliici-
1/2/	الها ۽ الدال	, ",	fied siltstone, calcareous, somewhat dolomitic; shale, dark-
			gray to grayish-black, moderately pyritic, glauconitic in
			part, calcareous
5375 -	5385	10	Chert, mottled-light- to medium-gray, (translucent) and dark-
			gray to grayish-black (argillaceous), calcareous, dolomitic
-0.49. <i>(</i> **)		ve ***	in the lower part, spicular
- 5385 -	5396	11	Chert, mottled light to medium-gray (transparent to translu-
			cent), with some dark-gray (argillaceous) and moderate to large amount of dark-gray to grayish-black (argillaceous)
			from 5390 to 53931, somewhat calcareous, delemitic at the top
5396 -	5405	9	Chert, very light to medium-gray (transparent) with small
200	J J		amount of dark-gray to grayish-black (argillaceous), some-
			what calcareous in the upper part, slightly dolomitic,
			spicular
5405 -	541.5	10	Chert, mottled translucent to milky to white and dark-gray
			to grayish-black (argillaceous), slightly dolomitic, highly
	w1	النب مالا	spicular
5415 -	5430	15	Chert, transparent to milky, mottled with some dark-gray to
			grayish-black (argillaceous), very slightly dolomitic,
5430 <b>-</b>	Elia E	5	highly spicular Chert, transpraent to milky, mottled with dark-gray to grayish-
~ VCPC	ンマンン	المب	black (argillaceous), highly spicular, very slightly dolo-
			mitic
5435 -	5455	20	Chert, medium (translucent) to medium dark gray and dark-gray
- No No.	and and		to grayish-black (argillaceous to shaly), small amount is
	. 1		dolomitic
5455 -	5480	25	Chert, medium dark to dark-gray (argillaceous) to grayish- black, silicified shale
5480 -	5500	20	Chert (highly argillaceous) to shale (silicified), grayish-
, ,,,,,,	2240	المناه وسند	black with some light to dark gray in the upper part
5500 -	5520	20	Shale, grayish-black, highly silicified, small amount is
			pyritic
5520 -	5544	24	Shale, grayish-black, large amount of dark-gray in the lower
ا القصر عبيد	The Late Co. Co.		part, silicified in part, pyritic (very finely disseminated)
5544 -	5552	8	Shale, dark-gray to grayish-black, calcareous: trace of light-
			gray transparent chert

(OVER)

Top. Bottom. Th	18 Sandstone, light to medium-gray, very fine grained, some fine to medium (rounded) grains, very highly
	calcareous, small amount of interstitial (argillaceous)
5570 - 5575	5 Sandstone, light-gray, very fine to fine-grained, some fine- to medium-grained, large grains rounded, some dark shaly
	material, somewhat silty, calcareous
5575 - 5580	5 Sandstone (very fine grained) to siltstone, (coarse), medium- gray, some fine to medium (rounded) grains, highly calca-
en e	reous, argillaceous
5580 - 5585	5 Sandstone, light- to medium-gray, very fine to fine-grained,
	with coarse silt and some medium (rounded) sand grains,
	highly calcareous, contains some dark (shaly) material
5585 - 5590	5 Sandstone, medium- to dark-gray, very fine grained, very
	silty (coarse), some fine to medium (rounded) grains,
	highly calcareous, argillaceous
5590 - 5595	5 Sendstone, medium light gray, very fine to fine-grained,
	some medium grains, very sulty, highly calcareous, some-
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	what argillaceous; trace of chert
5595 - 5605	10 Sandstone, light to medium-gray, very fine grained, some
	fine grains in the upper part, very silty in the lower
	part, highly calcareous; trace of chert
5605 - 562 <b>5</b>	26 Sandstone (very fine grained) to siltstone (coarse); light-
en e	to medium-gray, some fine to medium (rounded) grains at
	the top, highly calcareous; trace of chert; small amount
and and and and	of dark (shaly) material
5625 - 5630	_5 Sandstone, medium-gray, very fine to fine-grained, a few
	medium grains, silty, some argillaceous (dark) inter-
and the second of the second o	stitial material very highly calcareous