Longitude

Topo Location

7.5' Loc. 0.965 15' Loc. 3.845

Company ____

Farm _____

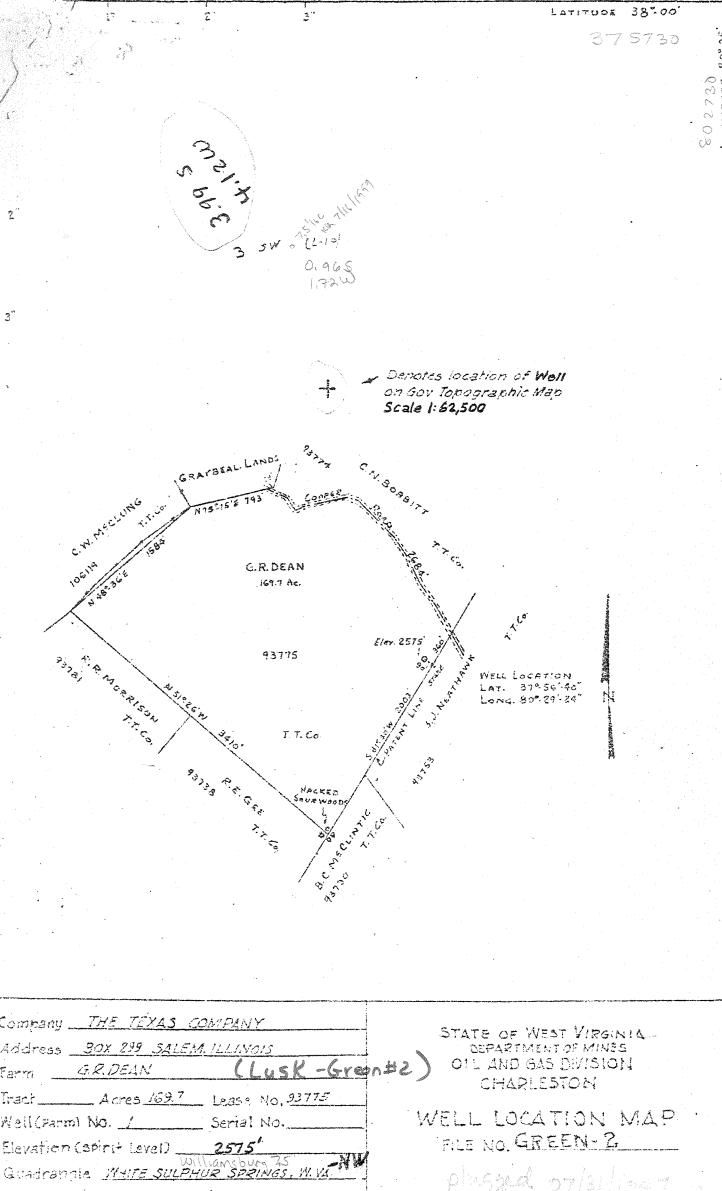
15' Quad White Sulphun Springs NW (sec.)

7.5' Quad Williamsburg

District _____

WELL LOCATION PLAT

County 025 Permit 2



Company THE TEXAS COMPANY Address 30x 299 SALEM. ILLINOIS Farm <u>G.R.DEAN</u> Tract _____ Acres 169.7 Lease No. 93775 Well (Farm) No. / Elevation (spirit Level). Quadrangia WHITE SULPHUR SPRINGS. W. VA County. SKEENBRUR District WULLANDBURG Engineer a Glenn Witt Engineers Registration No. 1417 (PM) _Drawing No. file No. DeepWell Date 4.22.46

```
CASING & TUBING
          Columbian carbon Company
Company
          Box 873, Charlesten 23, W. Va.
Address
                                                           7" 6405!9" 6405!9"
           V. H. Lusk
                            Acres 175
Farm
          Brushy Ridge near Williamsburg

1 - GW-1175 Elev. 2575
Location
Well No.
          Williamsburg
District
                              County - Greenbrier
          V. H. Lusk, Shady Springs, W. Va.
Surface
          V.H. Lusk, et al
Mineral
          133,000
Volume
          2330# 21 days
R.P.
```

Note: This well was exiginally drilled by The Texas Company and was known as the G. R. Dean #1. The following is the log according to our samples:

Very fine white & yellog sand 0	120	Live	65 7 4 ·	6590	£.
Gray to geeen Siltstone 140	140	Dk.Silty Sand to Siltston		6600	40.3
Greey, gray & red Silustone 140		Dark Limo	6600	6625	
Lt. gray grain sand 210		Sandy Lime	6625	6670	
Gray and Green Siltstone 240	250	Chort & Lime	5570_	The second second	
Fine Lt. Gray Sand 250	270	Med. to Dk. Gray Lime	6725	6775.	
Gray Shale & Siltstone 250	310	Gray to Black Lime	6775	6790	
Gray to green Siltstone 310	500	Limey Sand to Sandy Lime	6790	6795	
Dark Gray Shale 500	520	Dk. Gray to Black Lime	6795	6830	
Dark Gray Shaly Siltstone 520	580	Sandy Lime to Silty Sand	6830	68 50	c.P.
Gray Silty Shale 500	520	Gray to slack Lime OOliti	c in p	art	
Gray Shalo & Siltstone 520	700		6850	6680	100
Lt. Green Sand 700	710	White to Ak. Gray Lime	6880	6935	
Gray Shale 710	7 80	Gray Black to Black Shaly	Lime '	to	
Grown & Gray Siltstone 780	600	Shale	5935	3930	
Gray Shalo and Siltstone 800	850	Lime and Sand	6980	7050	
Lt. green to gray Siltstone 650	6 7 0	Dark Gray to Black Lime	7050	7090	
Gray Shale & Siltstone 870		Bark Gray to Black Lime	7090	71.40	
Gray Shale 900	920	Dark Gray to Brack Lime	7140	7330	
Gray and Brown Siltstone 920	950	Durk Gray to Plack Lime	7330	7450	
Gray Siltstone and Shale 950	1.290	Williamsport Sand	7450	7540	-4 -6-
Dark Gray to green Siltstone 12	90 3900	McKenzie Shaly - Limeston	and the second second	7631	82
Gray Shale and Siltstone 190		-Keefer	7631	7668	
Dark Gray Shale 235		Rose Hill Limey Shale	7660	7730	
Fine Fray Siltstone 237		Clinton Shale	7730	7750	
Shale and Siltstone 241		Shale	7750	7920	•
Dark Gray Shale 269		Green, Gray Siltstone	7920	7935	
Gray Shale and lt. green Siltst		Shale	7935	7942	
280		Green Sand	7942	7955	
Dark Gray Shale 397		Iron Sand	7955	7963	
Dark Gray Shale & Siltstone 302		Shale to Siltstone	7963	7988	
Gray and Green Siltstone 304			7988	8120	
Dk. Gray Shale & Siltstone 323		TOTAL DEPCH	0120	and the state of t	
Gray to dk. gray Siltstone 237		s Careen was the	01.00	(5)5)
Shalt and Siltstone 340		Plugged back to 4315'	1910	Carried Commencer of the	
Dark Gray Shale 440			9010	76	31
Dark Shale 497		Gas Pays: 6435 and 6748	9	25	75
Dk. Brown to Black Shale 510		Hope Aleja		a de la companya de l	55
Dk.Brown to Dk.Gray Shale 520		* * ***		5	
Slick Black Shale 529		2.120			
Brown Shale 531		51-		812	and the
Dark Brown Shale 575		7631 2031		was processed	
Dk. Brown Shale & Limey Shale 521		7631		A. S. L	age control
Black & Gray Shale 633		1, 1, 6, 1	, T	5 U	3 25 T
Mod, Bark Shale 637				5 7	
Marcellus Shale 630					
Huntersville Chert 543		and the second s			
Fine sand to Siltstone-some Ches		manager (Company of the Company of t			
646		Cas 6442-6547	,	458	
Chart and Shale 5486			2.	1 - Y	
Orishany Sand 653				and the operation of the second	
2 3 3 3		기위 의 기위 (5 항)	paren d		÷

7989

Williamsburg District, Greenbrier County, W. Va.

By The Texas Company, Box 2420, Tulsa, Oklahoma.

Drilled under permit Green . White Sulphur Springs Quadrangle.

On 170 acres.

Elevation, 2575' L.

Surface and minerals owned by G. R. Dean, Williamsburg, W. Va.

Drilling commenced May 27, 1946; completed July 26, 1947.

10" casing, 433', cemented from top to bottom.

Rotary well.

Dry hole. Record from Smith Aug. 26, 1947.

Top. Bottom. Siltstone, gray, hard -0---2250 Siltstone, gray, with shale, dark-gray, 2250 - 2950 har d Shale, dark-gray, hard 2950 - 5100 5100 - 6431 Marcelius Shale, black, hard Huntersville Cherty Limestone, darkgray, hard (40 M. gas, 6442-6567', drill-stem test by Howco Feb. 6431 - 6538 147) Oriskany Sand, white, hard -6538 **- 6**572 Limestone, gray, hard (no gas, 7053-7206', drill-stem test 7-19-47, open 1 hr.) (101 M. gas (maximum)), 7409', drill-6572 - 7458 stem test by Howco Williamsport Sand, white-gray, hard 7458 - 7550 McKenzie Shaly Limestone, dark-gray, hard (82 M., 7562', 7-1.5-47, 7550 - ,7618open 2 hrs. 30 min.) Keefer? Sand, white-gray, hard 7618 - 7668 Rose Hill limy shale, gray-white, hard 7668 - 7728 Clinton Iron Ore, red, hard 7728 - 7737 Siltstone, Keefer?, gray, hard 7737 - 7758 7758 - 7916 Shale, green, medium-hard Sand, green-white, hard (7916', drill-stem test by Howco 7-2-47, open 1 hr., none to 8120 No show or odor) 7916 - 9955 6955 - \$963 Iron sand, red, hard **\$963 - 7988** Sand, gray-green, hard Tuscarora Sand, white-gray, hard 7988 - 8120 8120 Total depth

Greenbrier 2

Williamsburg District, Greenbrier County, W. Va. By The Texas Company.

Martens' sample record to RCT June 26, 1947.

Martens did not examine samples from 3790 to 74001, or if he did,

the record was not turned in.
Lout 4,0 mi, On 3800 and 4.3 m. W. 28001 MW With Affrica July

	-/-		
Top.	Bottom. 3	Thi ckne	on og still til stille skiller i skiller skiller skiller i skiller skiller i skiller skiller i skiller skiller ISS 🌡 skiller
	60		Sandstone, white to yellow, very fine; also some
		rafe is	yellow and brown clay
60 -	120	60	Sandstone, gray, very fine, with some gray to green
			siltstone
120 -	140	20	
			little very dark shale and a little sand which
and a graph of			is coarser than any above this
140 -	160	20	
	210	50	Siltstone, gray and green, sandy
	220	10	Sandstone, light-gray, medium-grained
	250	30	Siltstone, gray and green, with a little dark-gray
		J0	shale
250 -	270	20	
270 -		40	
200 -	270	40	
310 -	260	···	sandstone
: DAV -	300 ,	50	Siltstone, gray to grayish-green, with some dark-gray
260	raa.	710	shale
360 -	500	140	Siltstone, gray, mostly fine, with small amount of
~ ^ ^			dark-gray shale
500 -		20	Shale, dark-gray, silty
520 -		30	Siltstone, dark-gray, fine and shaly
550 -	580	30	Siltstone, light-gray, mostly coarser than the
			siltstone above
and the second of the second of	620	40	Shale, gray, silty
620 -	700	80	Shale and siltstone, gray: a few fairly coarse sand
	graniu A gran	a jagorian Spanis	grains at 670-6801 and 690-7001
700 -		10	Sandstone, light-green, very fine
710 -	•	70	Shale, gray, with some gray and grayish-green siltstone
780 -	800	20	Siltstone, brown and gray, with some gray shale
800,-	850	50	Shale, gray, with about an equal amount of gray to
			grayish-green siltstone
850 -	870	20	Siltstone, gray and light-green
870 -	900	30 -: .	Shale and siltstone, gray; a few coarse sand grains
			at 890-900'
900 -	920	20	Shale, gray, silty
920 -	950	130	Siltstone, gray and grayish-green, coarse and sandy
950 -	1290	340	Shale and siltstone, gray; in most of the samples
			there is a considerable excess of siltstone over
			shale
1290 -	1600	310	Siltstone, gray to grayish-green, with some gray shale;
			several samples contain some dark-gray and dark-
			brown fine siltstone
1600 -	1800	200	No samples
1800 -	1850	50	Siltstone, gray to grayish-green, with some gray shale
1850 -		50	Siltstone, dark-gray, fine
1900 -		90	
1990 -		40	Siltstone and shale, gray with good amount of him
			Siltstone and shale, gray, with small amount of white
			crystalline calcite

(OVER)

Top. Bottom	
2030 - 2090	60 Shale and siltstone, gray
2090 - 2210	120 Shale and siltstone, dark-gray to gray; most of
	the samples in this interval show an increased
	anonartian of dayle of the shale and share 11101 88888
	proportion of dark silty shale and fine silts tone
2210 - 2270	as compared with the interval above
2210 - 22/0	60 Shale and siltstone, dark-gray to very dark gray,
	with some lighter gray siltstone; most of the
and the second second	siltstone is fine and not sharply differentiated
	from the shale; the rock of the interval is not
	much different from that of the interval above
A STATE OF EACH OF STATE OF ST	but the average color is darker
2270 - 2290	20 Shale and silt stone, gray
2290 - 2350	
	Carolina Car
A CONTRACTOR OF THE PROPERTY O	stone is the predominant material
2350 - 2370	20 Shale, dark-gray, with some fine siltstone
2370 - 2410	40 Siltstone, gray, fine; with dark-gray, mostly silty
	and grand grand shalle and a region of the control
2410 - 2690	270 Shale, dark-gray to very dark gray, and fine lighter
	gray siltstone
2690 - 2800	110 Shale, dark-gray, with varying amounts of fine gray
	siltstone
(2800 - 2840	A STATE OF THE STA
2800 - 2970	Samuel Community of Community o
2000 - 2770	170 Siltstone and shale, gray; the siltstone is fine
	and slightly greenish
2970 - 3010	40 Shale, dark-gray, with small amount of gray to
	greenish siltstone
3010 - 3020	10 Shale, very dark gray
3020 - 3040	20 Shale and siltstone, gray
3040 - 3080	40 Siltstone, gray, shaly, slightly calcareous
3080 - 3200	120 Siltstone, gray to greenish gray mostly fine and
	A CLAM AND COMPANY PARTY TITLE STATE
3200 - 3205	shaly; also smaller amounts of gray shale
	5 No sample
3205 - 3210	5 Siltstone, dark-gray, fine, 60%; gray shale and
	siltstone, 40%
3210 - 3230	20 Siltstone, gray, fine
3230 - 3250	20 Shale and siltstone, gray
3250 - 3300	50 Siltstone, gray to dark-gray, 80%; gray shale, 20%
3300 - 3370	70 Siltstone and silty shale, dark-gray
3370 - 3400	30 Siltstone cross to don't const fire and a
3400 - 3440	30 Siltstone, gray to dark-gray, fine and shaly 40 Shale and fine siltstone dark-gray
3440 - 3470	
	30 Shale and siltstone, gray
3470 - 3580	110 Shale and siltstone, gray to dark-gray; individual
	samples show considerable variation in color and
	relative amounts of chole and ciltators
3580 - 3640	60 Shale and siltstone, gray
3640 - 3790	150 Shale, mostly dark-gray, with smaller amounts of gray
	siltstone gray, with smeather amounts of gray
3790 - 7400	3610 (SAMPLES NOT EXAMINED OR NOT REPORTED)
	70-2 (marriage rot favorathan of Mot Weldwill)
7400 - 7460	
1 100 - 1400	60 Limestone, gray to dark-gray, dolomitic, very
	finely crystalline; also a little gray to
771. Ca	black slickensided shale
7460 - 7520	60 Sandstone, white, quartzitic, fine to very fine;
()	also considerable amounts of limestone
	1000 to the second of the seco

	Battom. Th		
7520 -	7530	10	Sandstone, white to gray, very fine; also large amount of gray shale and some limestone
7530 -	7535	5	Shale, gray to dark-gray, calcareous; also a little gray limestone and white sandstone
7535 -	7545	10	Sandstone, white, very fine; a few pyrite colites in calcareous siltstone and impure limestone; also much dark-gray shale
7545 -	7550	5	Limestone, gray, containing a few pyrite colites; also much white to gray very fine sandstone
7550 -	7.570	20	Limestone, gray to black, shaly, dolomitic
7570 -		- 5 -	Shale and limestone, gray; also some white sandstone
7575 -		35	Limestone, gray to dark-gray, partly shaly
7610 -		25	Limestone, gray, sandy, containing abundant micro- fossils resembling colites (Ostracods?); appar-
nicar	7/1.		ently grades into sandstone toward bottom
7635 -	7045	10	Sandstone, gray, fine, calcareous and dolomitic; also much dark-gray limestone
7645 -	ウ ワハミ	60	Limestone, gray to dark-gray, fossiliferous; partly
			silty and sandy
7705 -	7730 .	25	Limestone, brownish-gray with some white, fossiliferounkEEFER SANDSTONE
7730 -	7735	5	Sandstone, red, fine, with hematite cement and
			green grains of chloritic material (Clinton Iron
			Ore horizon); also much limestone
7735 -		25	Sandstone, gray, very fine, silty, dolomitic; also much limestone
7760 -		5	Shale, light-green
7765 -		15	Shale and siltstone, green
7780 -		55	Shale, light-gray; also much green shale as above
7835 -	-	90	Shale and siltstone, green
7925 -		15	Shale and siltstone, gray and green
7940 -		10	Sandstone, red, with much hematite
7950 -		5	Siltstone, gray, sandy
7955 -	and the second of the second of the second	1.0	Sandstone, red, with much hematite
7965 -		25	Siltstone, gray and green, hard; coarser and sandy
		N/News	toward bottom of interval. ALBION SANDSTONE (TUSCARORA OR WHITE MEDINA)
7990 -	8045	55	Sandstone, light-gray and light-green to nearly
			white, fine to very fine, quartzitic; contains small amount of dolomite
	(8120)		(Reported Total depth)

Williamsburg District, Greenbrier County, W. Va.

By The Texas Company.

Located 4.0 mi. S. of 38° 00° and 4.3 mi. W. of 80° 25° - NW- White Sulphur Springs Quadrangle.

Elevation, 2575' L.

Permit Gree-2.

Drilling commenced May 27, 1946; completed July 31, 1947.

Gas show, 103,000 cu. ft. in one hour at 7458-7550° and 7988°.

Drilled by rotary

10" casing, 433' (cemented from top to bottom).

Section based on samples from 0-710° and 6380-7050°, examined by Russell R.Flowers. Record from Flowers, April 18, 1950.

Top	Bottom	Thick-
		ness POCONO FORMATION, 710+ FEET
0	60	Sandstone, (very fine, highly argillaceous) to shale (very sandy), yellowish-gray to grayish-orange with light-brown,
60	240	ferruginous streaks, somewhat micaceous 80 Sandstone (very fine) to siltstone, medium- to dark-gray, a large amount of dark greenish gray to greenish-black (most- ly siltstone) in the bottom 25 to 30 feet, shaly, contains
140	188	fine to medium grains (clear quartz); some dark-gray to grayish-black shale in the lower part 48 Siltstone, grayish-brown to dusky-brown and dark greenish gray
		to medium dark gray, some dark-gray (shaly) to grayish- black (shale), sandy, contains many medium to coarse grains of glassy quartz
188	214	26 Siltstone, medium- to dark-gray, some olive-gray; shale, dark-gray to olive- and grayish-black
214	260	Sandstone, very light to light-gray, fine- to medium-grained, some coarse grains, pyritic; a very large amount of silt-stone, medium- to dark-gray and dark greenish gray, some dark yellowish-brown (highly sideritic); a large amount of dark-gray to grayish-black shale
260	280	20 Siltstone, light-gray, fine-grained, pyritic
280	300	20 Siltstone, dark greenish gray to medium-gray, some elive-gray,
		(sideritic) to dusky yellowish brown (highly sideritic); some medium dark gray to grayich black shale; some very light to light-gray, fine-grained sandstone
300	330	30 Siltstone, dark greenish gray to medium dark gray and olive- black; some medium dark gray to grayish-black shale; some dark to dusky yellowish brown, highly sideritic shale and siltstone
330) 90 0	20 Siltstone, dark greenish-gray and olive-gray to mddium dark gray with dark-gray to grayish-black shale; some light gray to greenish-gray sandstone at the bottom
350	400	50 Siltstone, medium dark gray, some medium-gray; some dark- gray to grayish-black shale
400	500	100 Siltstone, medium-light to medium dark gray; some dark-gray to grayish-black shale
500	5 20	20 Shale, dark-gray to grayish-black, silty
520	550	30 Shale, dark-gray to grayish-black to siltstone, medium to medium dark gray
550	5 80	30 Siltstone, medium light gray, some medium-gray, mostly coarse silt but some very fine to fine grained sandstone at the
	m 25 7 \	bottom; contains dark-gray to grayish-black, shaly streaks

Top	Bott	Om Thi	
580	640	60	
			Shale and some siltstone, medium- to medium dark gray and dark greenish gray, contains some pyrite and some white vein calcite
640	660	20	Shale, medium dark to dark-gray, soft; some medium-gray to dark greenish gray siltstone
660	670	10	Shale and some siltstone, medium dark gray to dark greenish
670	680	10	Siltstone, dark greenish gray to medium dark gray contains
680	700		some dark-gray shale and a few broken quartz nebbles
magained of the second of		20	Shale, medium-gray to dark greenish-gray; some siltstone in the lower part; a few coarse quartz grains
700	710	10	Sandstone, light-gray to greenish-gray, very fine grained, chloritic, some mica and kaolinitic material)Berea?) DEVONIAN SHALES, 5721 (?) FEET
710	3790	3080	Described by James H. C. Mertens.
3790	6380	2590	Not described.
6380	6431	51	Shale, black, highly carbonaceous.most of the shale is
			slickensided, contains a large number of veins and vein- lets of white calcite, somewhat pyritic at the bottom; small amount of highly micaceous shale (probably altered biotite) at the bottom
		and the same	HUNTERSVILLE CHERT, 107 FEET
6431	6435		Limestone, medium to medium dark gray, very shely, cherty to
6435	6460	25	a somewhat calcareous, white to medium-gray chert Chert, white to light-gray to medium-gray ("dirty", somewhally) to dark-gray and grayish-black (very shally to
6460	6465	5	siliceous shale), calcareous in part, slightly pyritic Chert, very light to medium-gray, pyritic in part, somewhat calcareous and dolomitic, silty to a greenish-gray, very
6465	6487	22	Siltstone, medium- to dark-gray, with light-gray (dolomite) specks, centains green (highly glauconitic) streaks
6487	6505	18	cherty and shaly Shale (highly siliceous) to chert, medium dark to dark-gray,
6505	6530	25	chert, medium-to dark-gray, some gravish-black (siliceous
6530	6538	8	shale), some light to medium-gray, somewhat calcareous Limestone (shaly), medium-gray to a calcareous shale and
	r.		chert, dark-gray to grayish-black (Huntersville Chert, 6431-6538', from driller's log) ORISKANY SANDSTONE, 25 FEET
6538	6546	8	Sandstone, light- to medium-gray (with some dark-gray, shalv
			streaks), fine-grained, some medium to coarse grains, sub- angulat to rounded, mostly quartz qith calcareous cement
6546	6554	8,	Sandstone, light- to medium-gray, fine to very fine grained, some coarse to very coarse grains, very highly calcareous, contains some dark-gray to black, shaly material
6554	6558	4	Sandstone, very light to light-gray, fine-grained, some medium grains, quartzitic with a parallel or rectangular structure (possibly due to deformation), moderately calcareous
6558	6563	5	Sandstone, very light to light-gray, fine to very fine grain- ed, some medium grains, moderately to highly calcareous, contains some dark-gray shale grains

		and the Market Control		
	Jop	Bottom	Thick	
		1.10	11088	HELDERBERG FORMATION, 372 FEET
	6563	6568	5	Sandstone, light- to medium-gray with dark-gray to black
				shay streaks, very fine grained, silty, very highly cal- careous with some limestone (very sandy)
	6568	6574	6	Siltstone, medium- to dark-gray with black, carbonaceous, shaly
		And the state of t	-	streaks, very fine grained, silty, very highly calcareous,
				with some light-gray, very sandy limestone spots
	6574	6580	6	Limestone (very sandy and silty) to sandstone (very fine, silty
		es A s	Control of the Contro	highly calcareous) medium- to dark-gray with light-gray spots contains a mederate amount of dark-gray to black shaly material
	6580	6600	20	limestone (silty and sandy) to a siltstone (sandy, highly cal-
				careous) medium to dark-gray (shaly) to grayish-black (very
	6600	1100	which partition	shaly), with some light-gray spots, fossiliferous
	6600	6625	25	Limestone, medium- to dark-gray with black, very shaly streaks
			No contract of	and light-gray spots, very sandy(very fine to fine), silty, fossiliferous
	6625	6670	45	Limestone (very sandy) to sandstone (very fine to fine-grained,
		10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		very highly calcareous), medium- to dark-gray with grayish- black, shaly streaks
	6670	6705	35	Limestone, dark-gray to grayish-black, some lighte to medium-
				gray, very shaly (silicified in part), somewhat cherty
	6705	6720	15	Limestone, medium- to dark-gray, some light-gray, very sandy
		- 1		(fine to very fine), very silty, shaly at the bottom, fossil-
	6720	6765	45	iferous, somewhat cherty
J	orcu	9799	42	Limestone, medium-gray to grayish-black, more grayish-black at
	4.5		and the training of the	the lower part, very shaly to a silicified shale, silty in
	6765	Lowe	30	the upper part, fossiliferous
	כסיים	6775	10	Limestone, medium- to dark-gray, some grayish-black (shaly) at
	The second		an shullia Sa ee s	the top, very silty at the top to very sandy (fine to very fine) at the bottom
	6775	6870	5	Limestone, grayish-black with light- to medium-gray spots, highly
				oolitic in part, somewhat shaly, silty
	6780	6795	15	Limestone (very sandy, silty) to sandstone (very fine, silty,
				and highly calcareous), light- to medium-gray
	6795	6800	5	Limestone, medium- to dark-gray, some grayish-black and some
		i sa Walana s	_	light-gray, very shaly, silty, somewhat sandy
	6800	6850	50	Limestone (very sandy, silty) to sandstone (very fine, silty,
				highly calcareous), medium- to dark-gray, some grayish-black
	6850	6860-	10	Limestone, dark-gray to grayish-black, some light-gray toward
	•			the bottom, very sandy and silty, somewhat shaly, oolitic in
				part
, ,	6860	6885		Limestone, grayish-black to black, some light-gray spots, highly
				colitic in part, silty and sandy (fine to very fine), some-
			1	what shaly, very shaly at the bottom
	6885	6900	15	Limestone (very shaly) to shale (highly calcareous), dark-gray
				to grayish-black, some light- to medium-gray, silty, somewhat
				cuerty,
	6900			Limestone, medium- to dark-gray, some white to light-gray, very
			 2	silty to sandy (very fine), cherty, some calcareous shale
	6915	6945	20	Limestone, dark-gray to grayish-black, silty and sandy, very
~				shaly at the bottom
				CAYUGAN AND NIAGARAN SERIES, 1054 FEET
	6935	7050	115	Limestone, grayish -black to black, very shaly, to a calcareous
	T SET SET			shale, somewhat pyritic; some brownish-black dolomitic lime-
				stone to dolomite (shaly), some very fine sandstone at the
				bottom

(Continued on page 4)

Top	Bottom	Thick	
TOEO	Onon	ness	
7050	7090	**U	Limestone, dark-gray to black, light- to medium-gray in part, very shaly with some calcareous shale, very silty
	The second se		and sandy, delomitic in part; some silty sandstone. light
ilimata turra		nasur e	gray, very fine, calcareous
7090	7300	10	Limestone, dark-gray to grayish-black, some medium dark to
7100	7120	20	dark-gray (highly delomitic), very shaly, sandy in part
1200	(LEV	20	Limestone (medium- to dark-gray, grayish-black to black, shaly very sandy; dolomitic in part at the bottom; some medium-
	in de stên in. Geografia	9 20 1 149/ 1213 - 126	gray anhydrite in the lower part
7120	7160	40	Limestone (dolomitic) to dolomite (calcareous), dark-gray to
t. 92 - 12	er e együkle		grayish-black, some medium-gray, a moderate to large amount
Abelo tu.			of light- to medium-gray anhydrite, some shale, sandy at the
7160	7250	90	top Dolomite, grayish-black to black, some dark-gray, some brown-
ga Tarania Tarania		, * . The set	ish-black, highly calcareous, shaly, sandy in part; some
2°9.00 0	2009		light-to medium-gray anhydrite
7250	7330	80	Delomite, dark-gray to black, some brownish-black, highly cal-
			careous, shaly, very sandy in part; small amount of light- to medium-gray anhydrite
7330	7400	70	Delomite, grayish-black to black, some brownish-black, highly
	ar Torang to Austr Historia		calcareous, shaly to dolomitic shale, sandy at the bottom,
mal	ament .		some fossil fragments
7400	7455	55	Dolomite, dark-gray to black, streaked with dusky-brown (7430-
			7440', iron oxides) calcareous, shaly to dolomitic shale, silty, highly colitic in the lower part
7455	7520	65	Sandstone, white to very light gray, fine to very fine
-			grained, quartzitic, highly calcareous to a sandy limestone
	The state of the s		(in part), contains some pyrite crystals
7520	7530	10	Sandstone, very light to medium-gray, some dark-gray (some
	allo se di Kazara	To a fine	cafoonaceous material), very fine to fine-grained, some
	A Maria		calcareous sandstone to sandy limestone; a large amount of
7530	7535	5	medium- to dark-gray shale, some grayish-black to black Shale, dark-gray to grayish-black, somewhat dolomitic; some
8 KG - 188		<i></i>	white sandstone to medium-gray, sandy limestone
7535	7545	10	Sandstone (calcareous, silty) to an impure limestone, light-
			to dark-gray, contains some pyrite colites, a large amount
7545	7570	OF	of dark-gray to grayish-black shale
CPCT	7579	25	Limestone, medium dark gray to grayish-black, to shaly, dolomitic a few pyrite oolites at the top
7570	7575	5	Limestone (shaly) and shale, medium-gray to grayish-black,
* * * * * * * * * * * * * * * * * * * *	v me v me		delomitic; sandstone, white to very light gray quartzitic.
خسر وهائي درين وجازح	60.1 m a		fine to very fine grained (cavings?)
7575	\$610	35	Limestone, dark-gray to black, very shaly, silty in part,
7610	7635	25	dolomitic in part Limestone, medium dark gray to grayish-black, contains an
3	1 - 33	J	abundance of microfossils resembling colites (estraceds?),
			very sandy to a sandstone at the bottom. shalv
7635	7645	10	Sandstone, light- to medium-gray, highly calcareous to a sandy
7645	7665	20	limestone, shaly; some dark-gray to black, shaly limestone
7047	(00)	د ا	limestone (sandy) to sandstone, medium dark to dark-gray, some grayish-black, very shaly, silty, fossiliferous
7665	7690	25	limestone, dark-gray to grayish-black, very shaly to a cal-
- - -		-	careous shale, moderately to highly dolomitic, silty and
			sandy in part
			(Continued on mace E)

(Continued on page 5)

Top	Bottos	nes.	
7690	7710	20	Limestone, dark-gray to black with light- to medium-gray spots (an increase of light- to medium-gray at the bottom), very
7720	7730	20	shaly to a calcareous shale, fossiliferous Limestone, mottled light- to medium gray (very highly calcareous) and dark-gray to grayish-black (shaly), very highly fossil- iferous, delomitic in part
7730	7740	10	sandstone, grayish-red to very dusky-red, fine-grained with many coarse to very coarse grains, contains hematite and some dolomite cement with green grains of chloritic material (Clinton Iron Ore horizon), probably much less than 10°); some sandstone very light to light-gray, fine-grained with medium to very
			coarse grains, pyritic in part, silty in part to a medium- gray and dark greenish gray, sandy, dolomitic siltstone
7740	7760	20	Sandstone (very fine) to siltstone, medium- to dark-gray, some dark greenish gray, dolomitic; a large amount of dark-gray to grayish-black limestone; small amount of medium-gray to dark greenish gray shale at the bottom
7760	7785	25	Shale, greenish-gray, soft to siltstone, dark greenish gray
7785	7840	35	Shale, greenish-gray, some medium-gray, soft; a maderate to large amount of dark greenish gray siltstone
7840	7925	85	Shale, greenish-gray, some dark greenish gray, a small amount of medium-gray, soft; some siltstone, dark greenish gray
7925	7943	18	Siltstone and shale, medium-gray to greenish-gray, some medium dark-gray to dark greenish gray
7943	7950	7	Sandstone, greenish-red to very dusky red, with much hematite
7 950	7955	5	Siltstone, medium- to dark-gray, sandy; siltstone and shale, medium-gray to greenish-gray and dark greenish gray (cavings?)
7955	7967	12	Sandstone, very dusky red, some grayish-red, with much hematite
7967	7989	22	Siltstone, medium-gray to dark greenish gray, some medium dark gray; a large amount of shale, medium to medium dark gray TUSCARORA SANDSTONE, 131+ FEET
7989	8120	131	Sandstone, very light gray to light greenish gray, some light- gray to greenish-gray, very fine grained, silty, quartzitic (much silica cement)

STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name:	Lusk, V.H.		Operator Wel	I No.: 1		
LOCATION: EI	evation: 2.560) '	Quadrangle:			
Di	strict:		County: G	Greenbrier		
La	strict:	Feet South	ofDeg	Min	Sec.	
. Lo	ngitude:	Feet West	ofDeg	Min.	Sec	
	GAS <u>X</u> ckson Resour		0.10		Office of Oil & C	ies
			Coal Operator			24
<u> </u>	O Box 498 mlin WV 2552) 2	or Owner		MAY 0 1 20	טצ ן
na	IIIIIII WV 2554	2.3	0 10			-
Agent: <u>Dale</u>	Coleman		Coal Operator or Owner		WV Departmer Environmental Pro	nt of Rection
Permit Issued D	ate: 10/04/01	L				-
STATE OF V	VEST VIRGINIA, incoln s	c.		gals late 515'-4300'	x added to	plug at
Paul St	evens	and Joe P	ettey	haiaa	r finat duli .	
law depose and	say that they are	experienced in	n the work of pl	being) first duly sworn	according to
employed by the	above named w	ell operator and	d nationated in th	ugging and filling	ng oil and gas we	and were
and Rick C	amphell	on operator, and	d participated in tr	ie work of plugg	ging and filling th	e above well,
work was come	ampbell menced on the	25+b	lov of March	representing	the Director, sa	y that said
and filled in the	following manner		lay ofPlates	, 2002, 8	and that the well	was plugged
TYPE	FROM	TO	PIPE REN	MOVED I	LEFT	
Gel Hole	Surface	8120'	7 11 12 1 (12)	VIOVED	LEFI	
Pull 2-3/8"		6600'	6600	4	0	
Cement	6600'	6350'	0000		0	
Pull 7"		4515'	4515	7	1991'	
Cement	4515'	4300	4010			
Cement	2200'	2000'			0-3/4" - 43	83"
				1		
Cement Coment	500' 100'	400' Surface				+ + -
Cement	100	Surrace			Who I	5/2/02
Decorintian of	monument: Erec	t monument i	+b ADT # 17	_025_00002_0		, ,
	g said well was co				and making v	vork of
progging and min	ig said well was co	impleted on the	6th day of 1	April		
And furthur de	eponents saith not.	Taul	tense	ens)		
			171	1		
		asyr.	yeury		SOI VIET VA	NOTARY PUBLIC
Sworn and a	hooriha h-f	was soft !	1 de th		ERAL S	TATE OF WEST VIRGINI
My commission	bscribe before me on expires: /0 - 2-	this 12 day	of mpril	, 1 9 2		OYD JACKSON WELL SERV. IN 308 WALNUT STREET

amplell

Notary Public

Oil and Gas Inspector: _

MAY 3 - 2002