LATITUDE 38° 15' 00"

7'5 OG15 topo location

7.5' 10c <u>2.175</u> 15' 10c _____

Company ____

Farm

Quad JULIAN 7/21

County LINCOLN

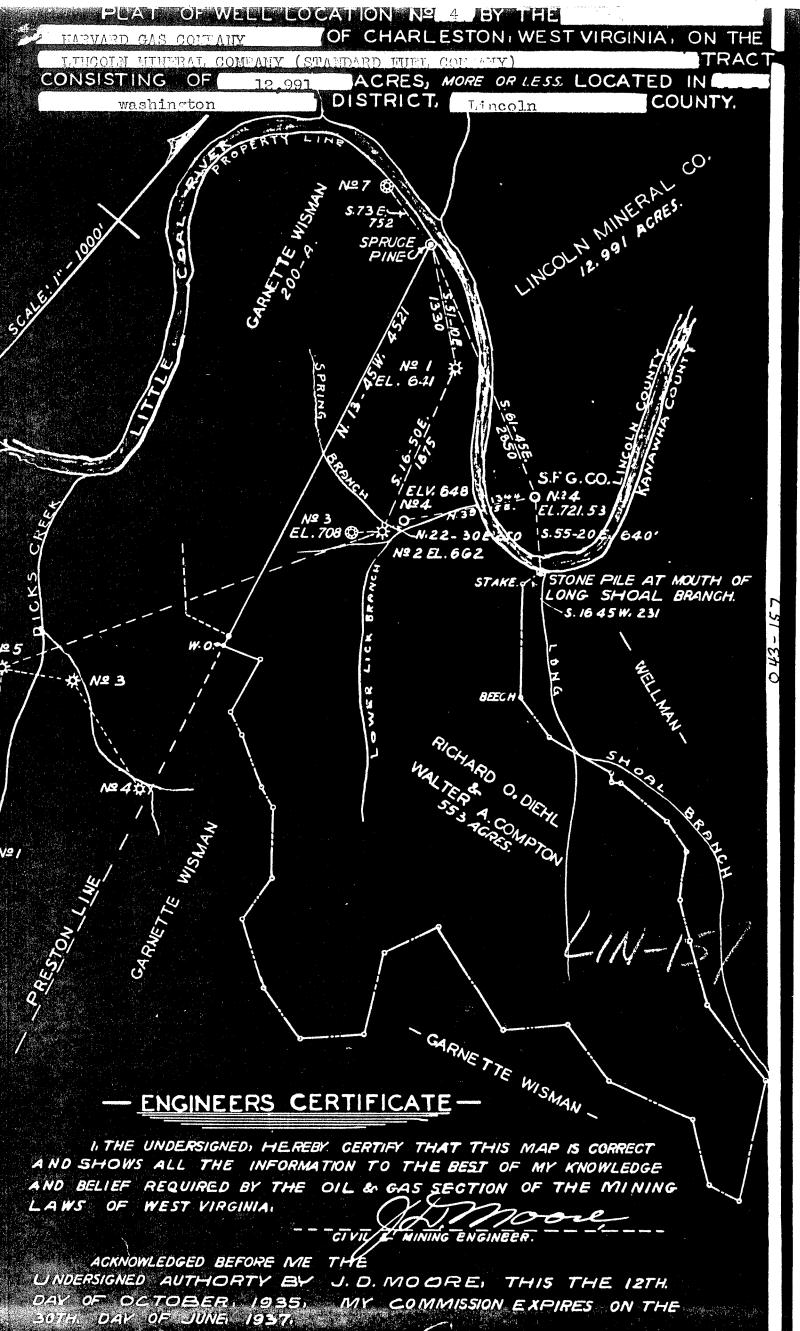
District WASHINGTON

WELL LOCATION MAP

File No. 043 - 157

Desp

-(200)



L'NCOLN 151

elev=744!

MADISON QUAD

38"15"

15' location

5219

W 3.87

608 LINCOLN COUNTY, W. VA., WELL RECORDS

Lincoln Mineral Company No. 4 Well.

Washington District, Lincoln County, W. Va.
By Harvard Gas Company.
Permit No. Lin-157.
Elevation, 744' B.
158 M. cu. ft. gas (Shale); gas show in Oriskany.
Located 2.19 mi. S. of 38° 15' and 3.87 mi. W. of 81° 45'—NE—Madison Quadrangle.
On north side of Little Coal River, (in southern loop), opposite mouth of Long Shoal Branch.
0.95 mi. N. E. of McCorkle; 3.0 mi. S. W. of Brounland.

	Top.	Bottom.	Thickness.	Elevation (top)
Big LimeBig Injun Sand		1588 1618	176 30	— 668 — 844
Berea Sand Corniferous Lime		2073 4436	23	-1306
	4436	4450	86 14)	3606 3692
	4490	4523	33)	

Thickness, Devonian Shales, 2277 feet. Total depth, 4534½'; Remarks: Completed July 1936. (4552' DLM).

Shot at 4440-4452' no results. Shot at 3465-3665'.

Oriskany gas show, 4446'.

On 12,991 acres.

(277) Alumcreek Dece well Washington District, Lincoln County, W. Va.

By The Harvard Gas Co., Chas. F. Howard, 503 Kanawha Banking & Trust Co. Bldg.,

Charleston, W. Va.

In loop, on north side of Little Coal River, opposite mouth of Long Shoal Branch, above railroad, 0.95 mi. N. E. of McCorkle, and 3.0 mi. S. W. of Brounland. 3.65 mi. N. of 35° 10' and 0.72 mi. E. of S1° 50' - NE - Madison Quadrangle. Elevation, 746' L.

Oriskany Sand dry. Reported 184 M. gas, after shot, but horizon not given.

0 -	12	Surface		O Slate and shells
12 -		Red mud	2570 - 280	5 Slate
31 -	36	Coal	2805 - 299	O Shelly
36 -	98		2990 - 311	O Slate
	1/10			O Slate and shells
140 -	195	Shelly		O White slate
195 -	260	Slate	3220 - 330	O Brown shale
260 -	295	Sand	3300 - 337	9 White slate
295 -	400	Slate and shells	3379 - 340	O Brown shale
400 -		Slate	3400 - 345	O White slate
460 -	470	Lime shells		5 Brown shale
470 -		Slate	3505 - 351	5 White slate
•	508	Coal	3515 - 367	O Brown shale
508 -		Slate	3670 - 371	7 Slate
606 -	705		3713 - 372	O Shell
705 -	745	Salt Sand break	3713 - 372 3720 - 401	2 Slate
	970		4012 - 403	2 Brown slate
	1130		4032 - 405	3 Shell
		Maxton Sand	4053 - 411	1 Brown slate
		White slate	4111 - 411	8 Brown shale
1230 -	1250	Red rock	4118 - 412	5 White slate
		White slate	4125 - 415	5 Brown shale
1300 -	1304			2 Lime shell
1304 -				O Brown shale
		Little Line		7 Lime shell, black
		Pencil Cave	4207 - 435	O Brown shale
1412 -			4350 - 443	6 Corniferous Lime
		Big Injun Sand		O Oriskany Sand
1618 -			4450 - 446	2 Lime
1710 -			4462 - 449	O Bjack lime
		White slate		3 Oriekany? Sand
1870			4523	
2035 -			453	나를 Total depth
2050 -				2 Corrected total depth
2073 -	2400	Slate and shells		(See note below)
		Lime shell		
	-22	The state of the s		

"All measurements below the Berea Sand are made by "derrick string" measurements inasmuch as it was impossible to get a pick-up with the ordinary measurement. A derrick measurement was taken at the top of the Corniferous Limestone at 4350" and another was taken on the bottom of the hole. It was found that the actual total depth of the well was 4552", a difference of 19" as that shown on the log. This was occasioned by the drilling line stretching to that extent in drilling from the top of the Coerniferous to the bottom of the hole."

LIBOUR MINERAL OO. NO. 4 MILL. Washington District. Lincoln County, W. Va. By Howverd Gas Co., Cherleston, 4. Va. located 3.87 mi. W. of 8/0 45' and 2.19 mi. W. of 380 15' - MB - Medison Guadrangle. Tievetion, 744. 20211 113-157. Wrilling completed July 7, 1976. Shot atm 3465-3665' with 1920 pounds of gelstin and at 4440-4452', with 30 qts. They of oil in Corniferous Line at 4776'. 4349 my hole in Griderry Send. Coal was encountered at 31-36' and 500-500'. Semple record from Flowers Farch 20. 1950. Ioo. Ottom. Thickness. 4330 - 4340 Male, black, highly carbonaceous, slightly gyritic; small -mount is calcareous 4340 - 4350 10 lisestone, brownish-block, very shaly, slightly pyritic 1970 - 1954 Limestone, brownish-gray tom brownish-black, very shalv. Romeston cherty 4954 - 4962 8 Chart, light- to medium-gray, some white, calcareous to a (vers dealy) 4962 - 4969 7 ica-black (delv) 12009 - 12003 Ď. lo smalle 15 gray, shaly, comewhat delocitic, very charty to calegracus black, calcareous, silicified shale in the lower part 1733 - 4797 8 litatone (at top), light-gray to brownish-gray, calcareous, dologitic, very cherty to a calcareous, dologitic chart.

Line 157

cherty limestone, brownish-gray (shely), some brownish-black Chart, white to medium-gray, some brownish-gray (calcareous) to limestone, light brownish grey to brownish-gray, some brown-Disestone, brownish-gray to brownish-block, come light brownish chert, white to medium-gray; some brownish-black to grayishwhite to light brownish gray 4393 - 44**01** Theset, very light gray to light bromish gray, colorroous, dolomitic (high in magnesian content ? - efforvesces very closiy in cold dilute MCL). 4-01 - 4-07 linestens, light-gray to brownish-gray, highly delemitie (high magnesian content i), very charty; trace of cleaconite 3437 - 3415 hert. Light-gray to bromish-gray, highly calcareous, somewhat delocatic, candy in the lower part; trace of glauconite 4415 - 4418 Chart. light-gray to light brownish gray, moderately calcareous. 囋 cliss; dolositic 41 ... 4422 Ž4 Semistone, light-gray, very line to fine-grained, subrounded to rounded, calcaroous, alightly glamechitic 3472 m 1477 Wiltstone to sandstone (very fine), light-gray, highly calear cons cherty, very cherty in part; contains some glauconite CHARAN SANCTON, 10 FOR Marin a Marin conference, light-gray, very fine to fine-grained, contains a few codius, rounded grains, seet of the grains ere clear and pleasy, highly coloursous, very highly coloursous in the loger part 1419) ... LUMO Conditions, very light to light-gray, fine-grained, some medium (rounded) and some very fine grains, highly calcor come Salata ... idala" * Tables Vole, Light-gray, very fine to fine-grained, very highly Coloreduc cas some service linestone

(CVEE)

	This obeas	
	200 and no state Libertal and analysis of the	TINGER FOR ATION, 824 TOTAL
4449 - 4447	4	Limestone, very light to medius-gray, very silty and sandy (fine)
والإسلام والمسترا	2	Lissestone to sendstone (fine to very fine), medium light gray
1,449 - 14-51	2	Sendatons (very fine, silty) to chert, very light to light-grey, highly calcareous
451 . 4452	1	Thert, ray light gray, somewhat calcareous
14152 - 14154	2	Thert to siltstone, very light gray, some brownish-gray to brownish-black (shely) in lover part, calcareous
- 4456 - 4456	2	Chart, brownish-gray to brownish-black (shaly), highly
	***	Sandstone (very fine) to chert, light-gray to brownish-gray, highly coloreous
- 14 57 - 1461	4	Chart, light-gray to brownish-gray, calcareous, dolositic
14-61 - 14-64	•	Thert, brownish-gray to brownish-black (shely), calcareous, highly dolomitic
Lington and Hilliam	6 .	limestone to chert, brownish-black, shely, dolonitic
4473 - 4474	•	limestone, brownish-gray to brownish-black, moderately delocitic, wary shaly
24474 m 44478	4	Thele, brownish-black to graytch-black, highly calcareous, somewhat dolomitic
4478 - 4482		Thele (calcareous) to limestone (chaly), brownish-block, some light-gray to brownish-gray, slightly sendy and charty, somewhet dolomitic
9482 - 4486		Limestone (shaly) to shale (calcareous), brownish and grayish-
4486 - 4490	a)	
14490 - 144 9 4		Filtatore to sendstone (very fine), light- to medium-gray, some dark-gray, highly colcareous at the top, cherty, glaucomitic
2294 - 4498	4	litatore and sendstone (very fine), very light to light-gray,
		calcareous to a silty and sandy limestone, cherty, elightly
1498 - 4505	7	
4505 - 4518		Chert (sendy and milty) to milimatene and mandatone (very fine). very light to light-gray at the top to light and medium- gray in the lower part, calcareous, highly calcareous in
4518 - 4525		the lower part, slightly gloudentic diltatone and sandatone (very fine), light- to medium-gray. Highly calcareous: trace of glauconite; a large amount of chart and some shaly material at the bottom.

WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION

PRELIMINARY DATA SHEET NO. 1

File No.			Well No.
Herverd Cas Com	Company of	Charleston	
West Virginia	on the	Lincoln Mix	oerel CoFarm
containing 12,991 acres	. Location—		
Washingi	On District, in	Lincoln	-County, West Virginia
The surface of the above tract is owner	ed in fee by		
of		Oil ——address, and the mine	& gas
Lincoln Mineral Co	mpany of —	<u>Cherleston</u> ,	, We was
The oil and gas privileges are held	under lease by the above	named company, and this we	ll is drilled under permit
No. 1777 157	issued by the West V	irginia Department of Mine	s, Oil and Gas Division
Nov 12,	1	93_ <u>5</u>	
Elevation of surface at top of well,-	744		Spirit ———Barometric.
The number of feet of the different sized	casings used in the well.		
	feet		_size. Wood-conductor.
1422 feet 6 5/8	3#size, csg	feet	sized csg.
1444 feet 2 ⁿ t	cubing size, csg.	feet	sized csg.
255feet 83# Pu	Lled_size, csg	feet	sized csg.
Hook Wats	packer of 25/	Size, set at	3444
	packer of	size, set at_	
, in casing	perforated at	feet to	feet.
, in casing	perforated at	feet to	feet.
Coal was encountered at 3	feet, thick ness	GO# inches, an	d at 5001
feet; thicknessinch	nes; and at	feet; thickness	inches.
Liners were used as follows: (Give	details)	None	
1/17/34	Date.		
CONTRACTOR OF THE PROPERTY OF	Approved	HAPVARD GAS COM	AWY , Owner.
	By	Elghor.	acel
		(TITLE)	Presid .

Li 157

bran	Qop		Company
	* Benk 8	: Trust	BIG/Address
Well No	J. Vo.		

COMPLETION DATA SHEET No. 2 FORMATION RECORD

Name	Color	Character	Oil, Gas or Water	Тор	Bottom	Thickness	Total Depth	Remarks
urface				22	12			
led_Mud				證	51			
oal .				31	56			
Sand				36	98			
Slate				98	140			
She ll y				140	195			
31ato				195	260			
and				260	295			
Late & Sl	delle			295	400			
late				400	460			
ime Shell	1s			460	470			
late				470	500			
onl				500	500			
late				508	606			
alt Sand				606	705			
alt band	Brook			705	745			
and				745	970			
late & SI				970	1130			
exon Sand				1150	1225			
hite Slei	tte /			1225	2230			
ed Rook				1250	1250			
hite Sint				1250	1300			
ed Rock :	2			1500	1504			
leto				1304	1370			
ittle Lir				1570	1396			
encil Car	vo.			1596	1412			
ig Lime -	1			1410	2588			
lg Injun				1588	1618			
lete -				1618	1710			
hells				1710	1770			
hito Slat	ide l			1770	1870			
Late & Sl	della			1870	2055			
rown Shel	Up College			2055	2050			
eren Sand	2			2050	2075			•
late & Sl				2073	2400			
imo Shell				2400	2530			
late % 81				2530	2570			
late			1	2570	2005			
helly	1			2805	2990			
loto				2990	3110			
late & St	16 <u>11</u> e			3110	3200			
dite Slat				3200	3220			
rown Shel				3220	3500			
uite Slat				3500	3379		- 1	
coun Shel				3379				
				UUTU	3400			
	1 1	cont	1mod	<u> </u>				

shot Well was not shot at	feet; well was shot at	feet
Salt Fresh water at.	saltfeet; fresh water at	feet
producing Well was hole.		
dry		
	Approved	*************************************
Date	Owner	

deep well

Company	Harverd Gas
A ddmaga	

COMPLETION DATA SHEET No. 2 FORMATION RECORD

Well No. L. M. # 4

Name	Color	Character	Oil, Gas or Water	Тор	Bottom	Thickness	Total Depth	Remarks
Brown She Cornifer Oriskany Lime Black Lime Black Lime Total De	ate ate ate ate ate ate ale ate ale ale ale ale ale ale ous Lime Sand me Sand pth Turements of the di ate botto at 4578	The actual was 4552 Filling line a of the hole	from the t il had bec protect in	encou	occasio e Cormi rtored i	ed by erous n the (the s Limes ornii olid	ring cretch- crows
shot Well was not shot at 30 0ts 4440-4452* feet; well was shot at 3465-3665* feet. No results								
Salt Fresh water a	t		salt feet; fresh	water at	·	***************************************		feet.
Well was hole. HARVARD GAS COMPAIN Date Date Owner								

NOTE: All bottom formations must be noted as indicated above and all key-rocks and oil and gas sands must be recorded under their proper geological names in the district as well as any local names commonly used in the district for such strata.