



Company Columbian Carbon Co.

Address Box 1240, Charleston, W. Va.

Farm W. D. Lewis

Tract Acres 1540.8 Lease No. C-190

Well(Farm) No. 16 Serial No. \_\_\_\_\_

Elevation (Spirit Level) 752.0

Quadrangle Charleston - S. E. SE

County Kanawha District Maldon

Engineer James N. Sell

Engineer's Registration No. 772

File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_

Date 3-23-37 Scale 1" - 1320'

STATE OF WEST VIRGINIA  
Department of Mines  
OIL AND GAS DIVISION  
Charleston

WELL LOCATION MAP

File No. KAN-353

+ Denotes location of well on U. S. Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

6-9-214

deep Well

WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION

WELL RECORD

Permit No. Kan-353

Gas Well

Charleston Quad.

CASING & TUBING

Company	Columbian Carbon Co.	14	29'7"	29'7"
Address	Box 1240, Charleston, W.Va.	10 $\frac{3}{4}$ "	373'3"	Pulled
Farm	W.D.Lewis Acres 1540.8	8 5/8"	1185'8"	1185'8"
Location	Coal Fork	6 5/8"	4649'	4649'
Well No.	16 (G.W.-384) Elev. 741.9			
District	Malden County Kanawha			
Surface (10 A. only)	C.E. & Blanch Scragg, Dana, W.Va.			
Mineral (Oil & Gas)	W.D.Lewis Est., c/o W.D.Lewis, Jr.,			Casing Cemented-See
Address	Dana, W.Va.			record below.
Drilling	Commenced, 4-14-37			
	Completed, 7-23-37			
Date Shot	7-24-37	Depth	4676 $\frac{1}{2}$ -4730 $\frac{1}{2}$	
Volume	2,797,200 Cu.Ft.			
Rock Press.	725#, 36 hrs.			

Formation	Color	Hor	TOP	Base	Result	Formation	Color	Hor	TOP	Base	Result
Soil			0	25		Lime			4730 $\frac{1}{2}$	4738	
Gravel			25	55		TOTAL DEPTH				4738	
Slate in Lime			55	59							
Coal			59	75	HFV	GAS PAY-			4677	4697 $\frac{1}{2}$	
Slate			75	125	80'						
Sandy Slate			125	150	Gas Show						
Slate & Shells			150	200	75'	CEMENT RECORD: 5-9-37: 1175' in 8-5/8"					
Lime (Gritty)			200	250	Crevice	casing. Used 72 sacks Alpha Cement; 4					
Lime			250	258	240'	sacks Aquagel. 9 $\frac{1}{2}$ " left in pipe. Run					
Lime (Gritty)			258	300		R/L nipple at 550' from surface.					
Sand			300	420							
Shale			420	462		6-17-37: RE-CEMENTED- 1175' in 8-5/8"					
Sand			462	581		Used 20 sacks Incor. Cement mixed with					
Shale			581	600		4% Aquagel solution-leaving 13' cement					
Lime			600	655		in pipe.					
Sand			655	754	Water						
Salt Sand			754	807	655'	(Halliburton Oil Well Cementing Co.)					
Shale			807	891	5 hrs.						
Lime			891	933	1 hr.						
Salt Sand			933	1006							
Shale			1006	1010							
Shale (Gritty)			1010	1041							
Lime			1041	1111							
Slate			1111	1118							
Little Lime			1118	1127	Gas Show						
Shale			1127	1131	1250'						
Big Lime			1131	1320	Gas Show						
Sand			1320	1396	1256'						
Shale			1396	1408							
Lime			1408	1442							
Shale			1442	1672							
Shale, Lime, Shells			1672	1680							
Shale			1680	1751							
Lime Shells-Broken			1751	1902							
Shale			1902	2725							
Lime Shells			2725	2963							
Shale			2963	3040							
Lime Shells			3040	3522							
Shale			3522	3570							
Lime Shells			3570	3680							
Shale	Black		3680	3832							
Shale	Brown		3832	3869							
Shale			3869	4478							
Shale	White		4478	4530							
Shale	Brown		4530	4588							
Lime			4588	4677							
Oriskany			4677	4730 $\frac{1}{2}$	Gas						
					4677'						

Handwritten calculations:

4588	4677	4730
752	257	752
<u>3836</u>	<u>8925</u>	<u>3978</u>