



Company Columbian Carbon Co.
 Address Box 1240, Charleston, W. Va.
 Farm John Summers
 Tract Acres 47.5 Lease No. C-254
 Well(Farm) No. 1 Serial No. _____
 Elevation(Spirit Level) 954
 Quadrangle Charleston NE
 County Kanawha District Elk
 Engineer C. A. Branham
 Engineer's Registration No. 683
 File No. _____ Drawing No. _____
 Date 2-20-37 Scale 1" = 400'

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

WELL LOCATION MAP
 File No. 15AIN-333

+ 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.

6-6-192

WEST VIRGINIA DEPARTMENT OF MINES
OIL AND GAS DIVISION

W E L L R E C O R D

Permit No. Kan-333

Gas Well

Charleston Quad.

C A S I N G & T U B I N G

Company Columbian Carbon Co.
 Address Box 1240, Charleston, W.Va.
 Farm John Summers, Acres 47.5
 Location Wolfpen Branch
 Well No. 1 (GW-377) Elev. 955.9
 District Elk County Kanawha
 Surface John Summers, Big Chimney, W.Va.
 Iron & Coal Alex M. Bruen Heirs
 Address 19 E. 83rd St. New York City
 c/o Alex M. Bruen, Jr.
 Drilling Commenced 3-16-37
 Completed 6-21-37
 Date Shot 6-21-37 Depth 5151-5187
 Volume 2,623,104 Cu.Ft.
 Rock Press. 1400# 12 hrs.

14	60'8"	60'8"
10 ³ / ₄	497	Pulled
8 5/8	1699'1"	1699'1"
6 5/8	5071'5"	5071'5"
3 ¹ / ₂	5224'2"	5224'2"

Liners		
4"	85'10"	85'10"

P A C K E R S

Kind of	OWS Conical	Sleeve
Size of	3x6 5/8"	
	Length 5'	
Depth set	5117	

Casing cemented size 8 5/8, 10', 4-10-37.
size 6 5/8, 10', 6-5-37.

Salt Water 1300' 1340' filled up- 700'

Formation	Color	Hor	TOP	Base	Result	Formation	Color	Hor	TOP	Base	Result
Clay			0	30		Shale	brown		3943	4095	
Sand			30	56		Slate&Shells			4095	4620	
Red Rock			56	165		Shale			4620	5028	Smell
Slate			165	180		Corniferous			5028	5142	Gas
Sand			180	198		Oriskany			5142	5202	5167
Slate			198	238							Sh.
Red Rock			238	264							Gas
Sand			264	289							
Slate			289	319		TOTAL DEPTH				5202	5171
Sand			319	335					Pay:	1st 5173-	74
Red Rock			335	355						2nd 5176-	78
Slate			355	444							
Sand			444	513	Water						
Slate			513	543	509	1-10" Blr. per hr.					
Sand			543	552							
Slate			552	560							
Sand			560	608							
Slate	Black		608	658							
Sand			658	695							
Slate & Shells			695	720		5028	5142				
Sand			720	810		956	956				
Slate & Shells			810	905		4072	486				
Sand			905	942							
Slate & Shells			942	1060							
Sand			1060	1081							
Slate			1081	1111							
Salt Sand			1111	1123							
Slate			1123	1131							
Sand			1131	1340	Gas Show						
Slate			1340	1346	1135						
Sand			1346	1396	Sm. Gas						
Slate			1396	1401	1171						
Sand			1401	1593	Water						
Slate			1593	1599	1195	1 1/2-10" blr. per hr.					
Little Lime			1599	1621							
Pencil Cave			1621	1624	Gas	Blew down to show.					
Lime	Black		1624	1637	1238-40	- 1,000,000					
Pencil Cave			1637	1663							
Big Lime			1663	1816	Gas						
Big Injun			1816	1835	1755	200,000					
Slate			1835	2012	Gas						
Sand Shells			2012	2072	1829-35	211,000					
Slate			2072	2225							
Slate & Shells			2225	3435							
Shale			3436	3500							
Slate & Shells			3500	3855	Gas Show						
Slate, Shls. & Shale			3855	3943	3595-3600						