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Company	Columbian Carbon Co
Address	Box 1240, Charleston, W. Va
Farm	Rome C. Cavender
Tract	Acres $90\frac{3}{4}$ Lease # C-404A&B
Well(Farm) No.	1 Serial No.
Elevation (Spirit Level)	797.0
Quadrangle	Charleston - N. E. <u>NE</u>
County	Kanawha District Elk
Engineer	James N. Sell
Engineer's Registration No.	772
File No.	Drawing No.
Date	4-17-37 Scale 1" = 660'

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

WELL LOCATION MAP
 File No. 1KAN-369

+ 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.

C-6 192 Deep Well

WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION

WELL RECORD

Permit No. Kan-369

Gas Well

Charleston Quad.

CASING & TUBING

Company	Columbian Carbon Co.	14 O.D.	54	54
Address	1240 ¹ / ₂ Box, Charleston, W.Va.	10 ³ / ₄ O.D.	402	Pulled
Farm	Rome C. Cavender (C-404) Acres 90-3/4	8 5/8 O.D.	1509'2"	1509'2"
Location	Fivemile Fork	6 5/8 O.D.	4829'6"	4829'6"
Well No.	1 (GW-387) Elev. 313' 199'	2-3/8 O.D.	4993'	4993'
District	Elk County Kanawha			
Surface	Rome C. Cavender, Box 141, Charleston, W.Va.			
Mineral (1/3 all Minerals)	Rome C. Cavender, Box 141, Charleston, W.Va.			
Mineral (1/8 all Minerals)	R.L. Bird, W.C. Revercomb, R.C. Lafferty & R.E. McCabe, all Charleston, W.Va.			
	J.L. Murphy, Amarillo, Tex. & Charles S. Banneman, 120 Broadway, N.Y.			Casing Cemented: See Record below.
Drilling	Commenced May 9, 1937			
	Completed Aug. 9, 1937			
Date Shot	Not shot			
Volume	2,724,480 Cu. Ft.			
Rock Press.	1500#, 24 hrs.			

Formation	Color	Hor	TOP	Base	Result	Formation	Color	Hor	TOP	Base	Result
Red Rock			0	29		Corniferous Lime			4782	4887	
Shell			29	34		Oriskany			4887	4953	
Red Rock			34	52		Lime			4953	4961	
Slate			52	70							
Sand			70	80		TOTAL DEPTH				4961	
Slate			80	185							
Sand			185	218							
Slate			218	260							
Sand			260	275							
Slate			275	330							
Sand			330	356							
Coal			356	358	No. of blocks						
Slate			358	375							
Sand			375	460							
Slate			460	510							
Sand			510	595							
Slate			595	670							
Sand			670	710							
Slate			710	762							
Sand			762	790							
Slate			790	825							
Sand			825	865	Water						
Slate			865	900	995'						
Salt Sand			900	1235	1 Blr.						
Slate			1235	1265	pr. hr.						
Lime			1265	1285	Water						
Sand			1285	1341	1025'						
Slate			1341	1382	Hole						
Mixon			1382	1428	Full						
Little Lime			1428	1481							
Pencil			1481	1483							
Big Lime			1483	1630							
Injun Sand			1630	1685	Water						
Shell	H		1685	1734	1640'						
Slate & Shells			1734	2076	Big						
Shale			2076	2085	Water						
Shell			2085	2135	1380-85						
Slate & Shells			2135	3305	1-8" Blr.						
Shale	Brown		3305	3365	hr.						
Slate & Shells			3365	3660	Gas						
Slate	Brown		3660	3900	3335						
Slate & Shells			3900	4425							
Shale	Brown		4425	4463							
Slate & Shells			4463	4500							
Shale	Brown		4500	4700							
Slate & Shell			4700	4710							
Shale	Black		4710	4782							

CEMENT RECORD: 6-6-37 1503' in 8-5/8" casing. Used 59 sacks Incor cement-mixed cement with 4% solution aquagel. 5 sacks aquagel. Left 9' cement in pipe. Pulled pipe 1' off bottom job tight and O.K.

7-21-37 - Cement production string 6-5/8" casing. Used 27 sacks Incor cement. Stopped plug 15' off bottom at 4778' S.L.M. Pipe went back to bottom except 2" due to stretch caused by lot Big Injun water pumping up around pipe.

(Halliburton Oil Well Cement Co.)