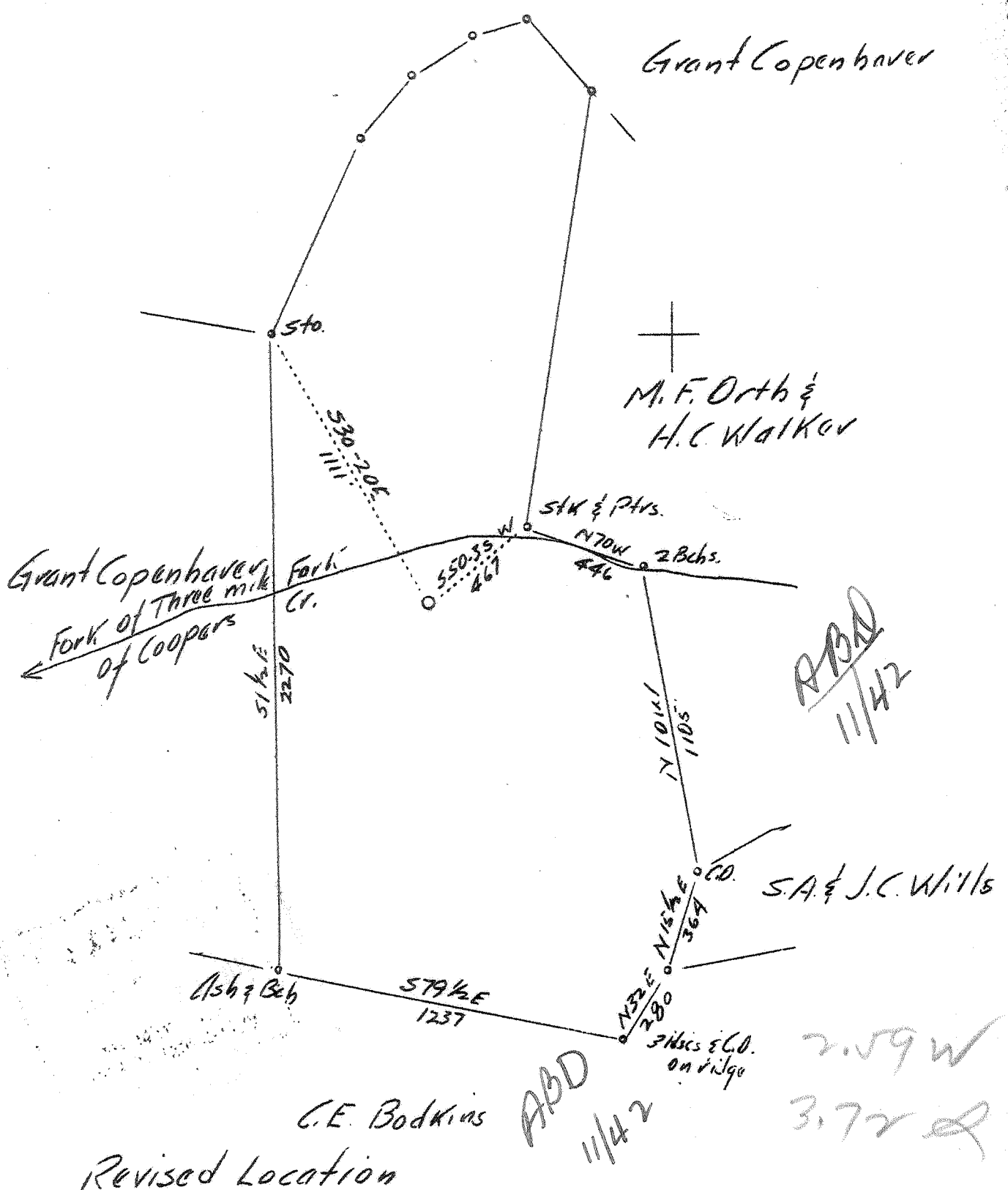


LATITUDE 38° 30'

LONGITUDE 81° 30'



Company	Columbian Carbon Co.		
Address	Box 1240, Charleston, W.Va.		
Farm	Robert N. Orth		
Tract	Acres	103	Lease No. C671
Well (Farm) No.	1	Serial No.	
Elevation (Spirit Level)	802.5		
Quadrangle	Charleston		
County	Kanawha	District	Elk
Engineer	C.A. Branham		
Engineer's Registration No.	683		
File No.	Drawing No.		
Date	7/3/37 Scale 1"=500'		

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

WELL LOCATION MAP

File No. KAN 341

+ Denotes location of well on United States 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.

6 192

WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION

WELL RECORD

Permit No. Kan-341

Gas Well

Charleston Quad.

CASING & TUBING

Company	Columbian Carbon Co.	14"	42	42
Address	Box 1240, Charleston, W.Va.	10 $\frac{3}{4}$ "	458'2"	Pulled
Farm	Rob't. N.Orth Acres 103	8 5/8"	1458'4"	1458'4"
Location	Fk. of 3 Mi. Fk. of Coopers Creek	6 5/8"	4843'9"	4843'9"
Well No.	1-B (GW-396) Elev. 802.5 d.f.	2 3/8"	4936'6"	4936'6"
District	Elk County Kanawha	3 $\frac{1}{2}$ " (Liner)	67'4"	67'4"
Surface	Robt. N.Orth, R.F.D. #5, Box 297-A Charleston, W.Va.			
Mineral (Iron & Address Coal)	A.J. Bruen, 19 E. 83rd St., New York City	PACKER		
Drilling	Commenced 7-19-37			
	Completed 10-31-37	Kind O.W.S. Conical Sleeve		
Date Shot	11-1-37 Depth 4914-4938	Swabbing 5'0"		
Volume	554,000 Cu. Ft.	Size 2 x 6 5/8"		
Rock Press.	775# 12 hrs.	Depth 4881		
Oil	Show - 945'	Cement Record: See below.		

Formation	Color	H $\frac{1}{2}$ '	TOP	Base	Result	Formation	Color	H $\frac{1}{2}$ '	TOP	Base	Result
Slate			0	50		1st Pay		4915	4915	4915	
Red Rock			50	95		2nd Pay		4917	4924	4924	
Slate			95	110		3rd Pay		4924	4925	4925	
Sand			110	142		4th Pay		4928	4929	4929	
Slate			142	270		5th Pay		4931	4933	4933	
Coal			270	272	No. 5 B.	CEMENT RECORD: 8/21/37 - Cemented with 17 Sks. Incor Cement below 8-5/8" to shut off water. 8/29/37 - Ran 74 sacks Alpha cement mixed with 2% Solution Aquagel and 6 sacks Aquagel. 10' cement left in 8 5/8" casing. 10/12/37 - Ran 25 sacks Alpha cement - no aquagel. Ran 11' spacer. Pipe went back to bottom O.K.					
Lime Shells			272	290							
Sand			290	335							
Slate			335	345							
Sand			345	370							
Slate			370	382							
Coal			382	384							
Slate			384	430							
Sand			430	489							
Slate & Shells			489	535							
Sand			535	567							
Slate			567	590							
Sand			590	629							
Slate			629	662							
Sand			662	683							
Slate & Shells			683	773							
Sand			773	815							
Slate & Shells			815	915	Show						
1st Salt Sand			915	1185	Gas						
Slate			1185	1205	923						
2nd Salt Sand			1205	1412							
Little Lime			1412	1442	Oil						
Slate			1442	1449	1/2 Bbl.						
Lime Shell			1449	1453	945'						
Pencil Cave			1453	1456							
Big Lime			1456	1805	Water						
Injun Sand			1605	1635	950'						
Shells			1635	1645	H.F.W.						
Slate & Shells			1645	2420							
Lime Shells			2420	2435	Water						
Slate			2435	3255	1512						
Shale			3255	3340	250'						
Slate			3340	3570	Rising						
Shale	Brown		3570	3585							
Slate			3585	3705	Gas						
Shale	Brown		3705	3935	1512						
Slate			3935	4400	500M-						
Shale	Brown		4400	4799	Died						
Corniferous			4799	4903	Out.						
Oriskany			4903	4970							
Lime			4970	4985							
TOTAL DEPTH				4985'							

see next page

WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION

Permit No. Kan-341

W E L L R E C O R D

Gas Well

Charleston Quad.

CORRECTED RECORD

CASING & TUBING

Company	Columbian Carbon Co.	See original record
Address	Box 1240, Charleston, W.Va.	for casing record &
Farm	Rob't. N. Orth Acres 103	Packer.
Location	Fk. of 3 Mi. Fk. of Coopers Creek.	
Well No.	1-B (GW-396) Elev. 802.5 df	Comment record on
District	Elk County Kanawha	original well record.
Surface	Rob't. N.Orth, R.R.O.#5, Box 297-A	
Address	Charleston, W.Va.	
Iron and Coal	Alex M. Bruen Hrs.	
Address	A.J.Bruen, 19 E.83rd St.New York City(c/o)	
Drilling	Commenced 7-19-37	
	Completed 10-31-37	
Date Shot	11-1-37 Depth 4921-4945	
Volume	554,400 C.F.	
Rock Press.		
Oil	945' Show	

CORRECTED WELL RECORD:

Corniferous Lime	4799	4914	SLM
Criskany	4914	4977	
Lime	4977	4992	
TOTAL DEPTH		4992	SLM

1st pay
4922-22 $\frac{1}{2}$

2nd pay
4924-31

3rd pay
4931-32

4th pay
4935-36

5th pay
4938-40