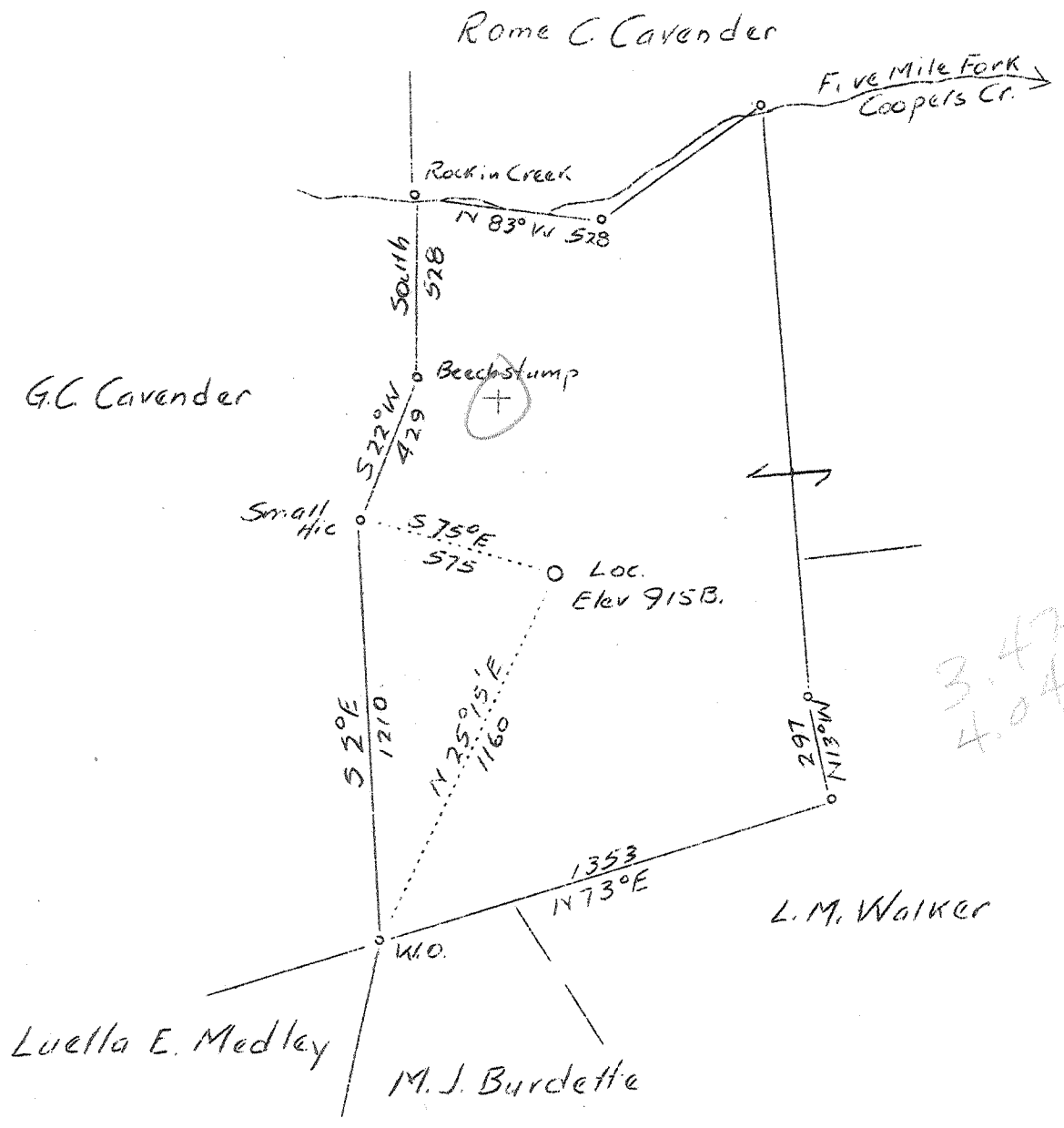


M

LATITUDE 38° 30'

LONGITUDE 81° 30'



7.5 min OGIS Loc.	15 min
38° 27' 30" .63	3.51 S
91° 32' 30" 1.68 W	3.94 W

Company	Columbian Carbon Co.
Address	Box 1240 Charleston, W. Va.
Farm	Minia F. Stauffer
Tract	Acres 93 Lease No. C-469
Well (Farm) No.	1 Serial No.
Quadrangle	Charleston N.E.
County	Kanawha
District	Elk
Engineer	C. A. Branham
Engineer's Registration No.	683
File No.	Drawing No.
Date	12-21-36 Scale 1" - 500'

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

WELL LOCATION MAP

File No. KAN-321

+ 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 Deep well

WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION

WELL RECORD

Permit No. Kan-321

Gas Well

Chas. N. E. Quad.

Company - Columbian Carbon Co.
 Address - Box 1240, Charleston, W. Va.
 Farm - Minia F. Stauffer. Acres- 93
 Location - Coopers Creek
 Well No. - 1 (GW-373). Elev. 920
 District - Elk. County- Kanawha
 Surface & Mineral - Minia F. Stauffer, Laura E. S. Burdett,
 & Rome C. Cavenier, Rt.5, Charleston, W.Va.
 Drilling - Commenced- 1-13-37
 Completed- 4-20-37
 Date Shot - 4-21-37. Depth- 5006 $\frac{1}{2}$ to 5064
 Open Flow - 3,370,368 Cu. Ft.
 Rock Press.- 1510 lbs. 48 hrs.
 Oil -
 Fresh Water-
 Salt Water - 1050 & 1110 feet

CASING & TUBING

14" OD 59'1"
 10 $\frac{3}{4}$ " OD 459'
 8-5/8" OD 1612'7"
 6-5/8 OD 4943'9"
 3 $\frac{1}{2}$ " liner 118'9"
 2-3/8 OD 5086'9"

PACKER

Kind - OWS
 Size - 2 x 6-5/8 x 5'6"

Coal was encountered at 265'36"

Formation	Color	Top	Bottom	Result	Formation	Color	Top	Bottom	Result
Sand		0	10		Oriskany		4998	5065	
Slate		10	25		Helderburg		5065	5072	
Red Rock		25	35						
Sand		35	75		Total Depth			5072	
Shell		75	95						
Slate		95	108		SIM 5072 Gas Pays:		5008-5013		
Red Rock		108	120				5024-5026 $\frac{1}{2}$		
Slate		120	140						
Red Rock		140	180						
Slate		180	235						
Sand		235	265						
Coal		265	268						
Slate		268	280						
Sand		280	310						
Slate		310	410						
Sand		410	460						
Slate		460	475						
Sand		475	570						
Slate		570	610						
Sand		610	670						
Slate		670	755						
Sand		755	800						
Slate		800	900						
Lime		900	970						
Slate		970	975						
Lime		975	985						
Salt Sand		985	1350	Water 1050 1 blr per hr					
Slate		1350	1360	HFW 1110					
Sand		1360	1540						
Little Lime		1540	1568						
Slate		1568	1571						
Lime	Black	1571	1594	SIM 1594					
Big Lime		1594	1740	SIM 1602					
Injun Sand		1740	1790	Gas 1647-53 Show					
Slate		1790	1794	Water 1760 1-1/2 blrs per hr					
Lime Shell		1794	1840						
Slate & Shells		1840	2190						
Shale		2190	2197						
Berea		2197	2201						
Slate & Shells		2201	3420						
Shale	Brown	3420	3493						
Slate & Shells		3493	3800						
Shale		3800	4005	Gas 3860 show					
Slate & Shells		4005	4613						
Shale		4613	4747						
Slate		4747	4815						
Shale	Black	4815	4892						
Corniferous		4892	4998	SIM 4910					

WEST VIRGINIA DEPARTMENT OF MINES

OIL & GAS DIVISION

WELL RECORD

Permit No. Kan-321-D

- Well

- Quad.

CASING & TUBING

Company	Columbian Carbon Co.	3-1/2	119	pulled
Address	Box 1240, Charleston, W. Va.	2-3/8	5069-3	pulled
Farm	Minia Stauffer ACRES 93			
Location	5 Mi. Fk. Coopers Creek			
Well No.	1 (GT-373) ELEV. 920			
District	Elk - Kanawha County			
Surface & Mineral	Minia Stauffer, et al			
Address	Route 5, Charleston, W. Va.			
DRILLING DEEPER:				
Commenced	8/24/39			
Completed	8/26/39			
Shot	Not shot			
Open Flow	-			
Volume	No Gas			
Rock Pressure	-			
Oil	-			

Formation Color ^{Hor} 5 TOP Base Result Formation Color ^{Hor} 5 TOP Base Result

Old Total Depth in Holderburg 5072

Drilled Deeper

Sand & Lime	5072	5090)) per sample examinations) No deepened pay
Dark Lime	5090	5096)	

Net total depth 5096