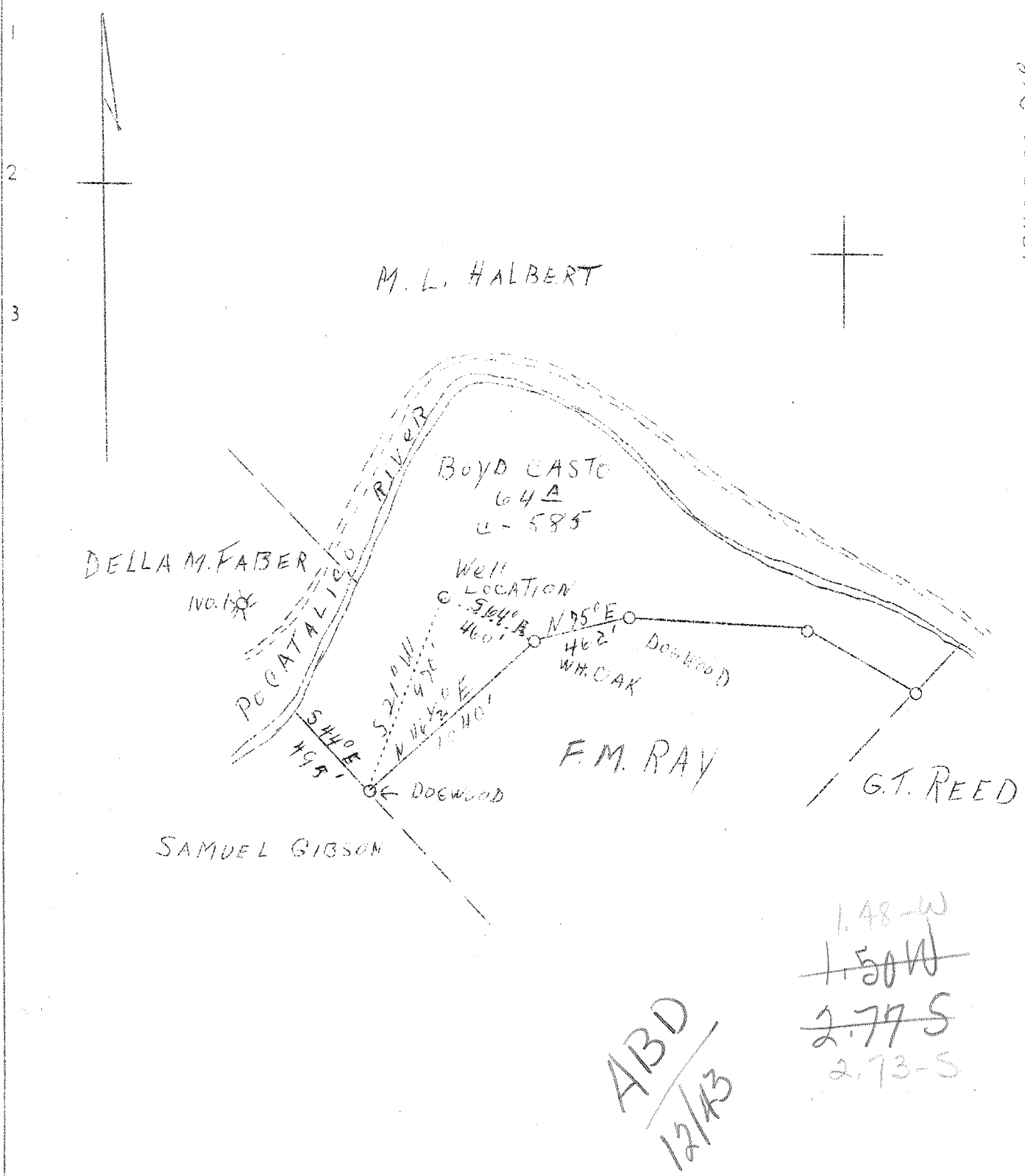


LATITUDE 38° 35'

LONGITUDE 81° 35'



Company Columbian Carbon Co.

Address Box 1240, Charleston, W.Va.

Farm Boyd Casto

Tract Acres 64 Lease No. C-585

Well (Farm) No. 1 Serial No. _____

Elevation (Spirit Level) 692

Quadrangle Kenna J.C.

County Kanawha District Poca

Engineer James N. Sell

Engineer's Registration No. 772

File No. _____ Drawing No. _____

Date March 8, 1938 Scale 1"-660'

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

WELL LOCATION MAP

File No. KAN-529D

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.

WEST VIRGINIA DEPARTMENT OF MINES

OIL & GAS DIVISION

WELL RECORD

Permit No. Kan-529

Kenna S. E. Quad.

Gas Well

CASING & TUBING

Company	Columbian Carbon Company	14	40'8"	40'8"
Address	Box 1240, Charleston, W. Va.	10-3/4	493'	Pulled
Farm	Boyd Casto Acres 64	8-5/8	1762'7"	1762'7"
Location	Pocatalico River	6-5/8	4813'8"	4813'8"
Well No.	1 (GW-411) Elev. 699.5 DF			
District	Poca - County Kanawha			
Surface	Boyd & Lillian Casto			Shut in on Casing
Address	Charleston, W. Va.			
Mineral	1/2 Minnie Johnson - 1/2 B. & L. Casto			
Address	Charleston, W. Va.			
Drilling Commenced	4-7-38 - Completed 7-7-38			
Shot	Not Shot			
Volume	16,789,000 c.f.			
Rock Pressure	1570 lbs. 19 hrs.			
Fresh Water	265' 1/2 - 13" Bailer per hr.			
Salt Water	1150' (600' Rises)			

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

Formation Color	Hor	5	Top	Base	Result	Formation Color	Hor	5	Top	Base	Result
Soil		0		12							
Sand		12		38							
Blue Slate		38		60							
Red Rock		60		225							
Blue Slate		225		235							
Red Rock		235		255							
Black Lime		255		285		Fresh Water 265'			1/2 - 13" Bailer per hour		
Red Rock		285		390		Salt Water 1150'			Rises 600'		
Blue Slate		390		480							
Sand		480		506							
Slate		506		529		Pay 4876-4892 - Continuous increase					
Sand		529		584							
White Slate		584		645							
Sand		645		672							
Black Slate		672		685							
Sand		685		740							
Black Slate		740		806							
Sand		806		850							
Black Slate		850		918							
Sand		918		935		5/10/38					
White Slate		935		1028							
Sand		1028		1045							
Slate		1045		1050							
Sand		1050		1075							
White Slate		1075		1085							
Lime		1085		1115							
Salt Sand		1115		1522		5/22/38					
Slate		1522		1526							
Little Lime		1526		1537							
Big Lime		1537		1666							
Injun Sand		1666		1742	SLM						
Black Lime		1742		1751							
Slate & Shells		1751		2143							
Shell, Berea		2143		2148							
Slate & Shells		2148		3750							
Brown Shale - 44		3750		3762							
Slate		3762		3800							
Brown Shale		3800		4036							
White Slate		4036		4444							
Brown Shale		4444		4702							
Black Shale - Marcellus		4702		4765	SLM						
Corniferous Lime		4765		4872							
Oriskany Sand		4872		4892							
Total Depth				4892							

475

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
W E L L R E C O R D

Permit No. Kan-529-D
- Quad.

Gas Well
CASING & TUBING

Company	Columbian Carbon Co.	2-3/8	4925-10	4925-10
Address	Box 1240, Charleston, W. Va.			
Farm	Boyd Casto ACRES 64			No packer
Location	Pocatalico River			
Well No.	1 (GW-411) ELEV. 699.5 DF			
District	Poca - Kanawha County			
Surface	Boyd & Lillian Casto, Charleston, W.Va.			
Mineral	Same & Minnie Johnson, Charleston, W.Va.			
Commenced Deepening	Jan. 24, 1940			
Completed Deepening	Jan. 27, 1940			
Shot	Not shot			
Volume	5,692,000 c.f.			
Rock Pressure	840 lbs. 11 hrs.			
Water	-			

Oriskany	4872	
Old Total Depth in Oriskany Sand	4892	

DRILLED DEEPER RECORD:

Oriskany	4892	4900 DLM	
Net Total Depth		4900 DLM	New Pay: 4897-4900

(475)

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
WELL RECORD

Permit No. Kan-529-D
Kanna Quad.

Gas Well

Company Columbian Carbon Co.
Address Box 1240, Charleston, W. Va.
Farm Boyd Caste ACRES 64
Location Pocatalico River
Well No. 1 (G1-411) ELEV. 699.5 DF
District Poca - Kanawha County
Surface Boyd & Lillian Caste
Address Charleston, W. Va.
Mineral Same 1/2 - Minnie Johnson 1/2
Commenced April 26, 1940
Completed May 2, 1940
Shot Not shot
Volume 4,500,000 c.f.
Rock Pressure 600 lbs. 12 hrs.
Water -

CASING & TUBING
2-3/8 4986-8 4986-8
No necker

Oriskany 4372

Old Total Depth in
Oriskany 4900 DLM

DRILLED TEMPER RECORD

Oriskany 4900 4956
Lime ~~held~~ 4956 4965
New Total Depth 4965 DLM NEW PAY: 4904-4906

485