

Company CITIES SERVICE OIL CO.
~~COLUMBIAN CARBON CO.~~
 Address Box 873 CHARLESTON W. VA.
 Farm ROWLAND LAND CO.
 Tract 248 Acres 479.18 Lease No. C-2026
 Well (Farm) No. 13 Serial No. GW-895
 Elevation (Spirit Level) 2001.4 2084 D.F.
 Quadrangle ECCLES 5-476-197 C
 County RALEIGH District CLEAR FORK
 Engineer [Signature]
 Engineer's Registration No. 772
 File No. _____ Drawing No. 361
 Date JAN. 17, 1946 Scale 1" = 500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. RAL-65-P

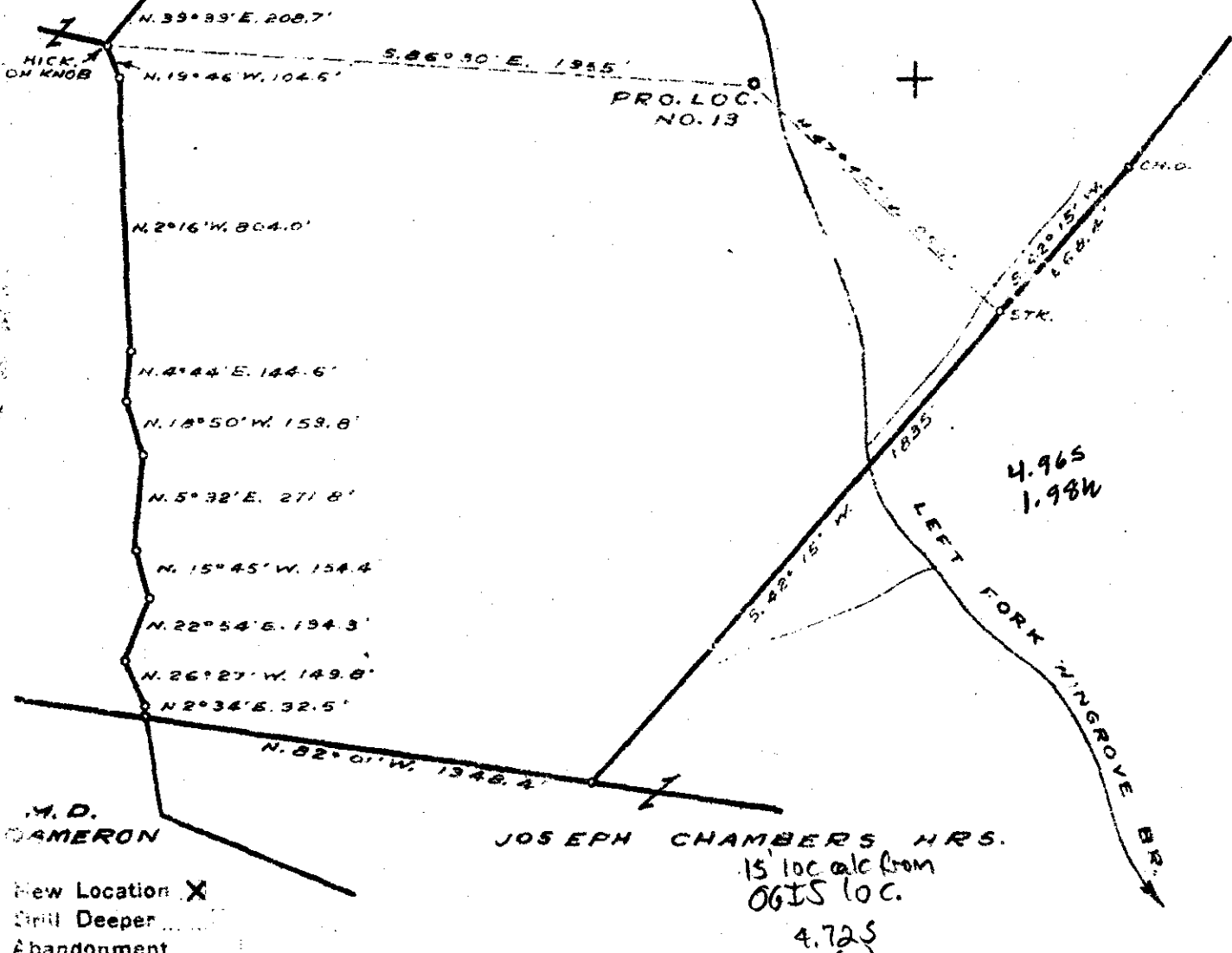
+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

APR 16 1969

C-2026 ROWLAND LAND CO.
BLOCK 7
5676.691 A.

TRACT 248 479.18 A.



Company COLUMBIAN CARBON CO.
 Address CHARLESTON W. VA.
 Farm ROWLAND LAND CO.
 Tract 248 Acres 479.18 Lease No. C-2026
 Well (Farm) No. 13 Serial No. _____
 Elevation (Spirit Level) 2081.4
 Quadrangle ECCLES 5-476-197
 County RALEIGH District CLEAR FORK
 Engineer J. M. Sell
 Engineer's Registration No. 772
 File No. _____ Drawing No. 361
 Date JAN. 17, 1946 Scale 1" = 500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. RAL-650

+ 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

Fract

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

Permit No. Ral 65
Eccles Quad.

Gas Well
CASING & TUBING

Company	Columbian Carbon Company			
Address	Box 873, Charleston, 23, W.Va.	13 3/8	48#	37 37
Farm	Rowland Land Co. Acres 49,427	10 1/2	35.75	654.4 654'4
Location	Left Fork of Wingrove Branch	8 1/2	24#	1843'10 1843'10
Well No.	13 GW 895 Elev. 2084' DF	2 3/8	4#	1846'2 1846'2
District	Clear Fork Raleigh County			
Surface	Rowland Land Co., St. Albans, W.Va.			
Mineral	Same			Gas Anchor Packer
Commenced	2-17-46			Size 8 5/8 x 10 1/2
Completed	4-19-46			Depth 1838'
Not shot				
Open flow	10/10ths W in 7" 22# 1425			Coal at 60' 36"
Volume	1, 364,000 C.F.			74' 36"
Rock Pressure	415 lbs. 40 hrs.			
Fresh Water	63' H.F. 163' H.F.			

Soil & Gravel	0	35
Soft Sand	35	45
Slate & Shells	45	60
Coal	60	63
Slate & Shells	63	74
Soft Coal	74	77
Slate & Shells	77	93
Sand	93	165
Slate & Shells	165	194
Coal	194	198
Slate & Shells	198	255
Sand	255	336
Slate & Shells	336	370
Sand	370	510
Lime	510	653
Sand	652	681
Lime	681	752
Sand	752	805
Lime	805	894
Sand	894	1310
Slate & Lime	1310	1354
Sand	1354	1380
Slate & Lime	1380	1442
Red Rock	1442	1452
Slate & Lime	1452	1474
Sand	1474	1522
Red Rock	1522	1535
Sand	1535	1560
Red Rock	1560	1570
Slate & Lime	1570	1590
Lime	1590	1625
Sand	1625	1675
Slate & Lime	1675	1797
Sand	1797	1838
TOTAL DEPTH		1838 Gas Pays 1828-1837

CEMENT RECORD:

3-7-46 10 1/2" casing set at 649' SLM 12 sacks aquagel and 1 bale fibertex
No circulation or returns. Columbian Carbon Company Crew

4-27-46 8 5/8" casing run with Gas Anchor Packer and perforated anchor
No aquagel - Columbian Carbon Company Crew.



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION //
 DRILLED DEEPER
 WELL RECORD

Quadrangle Eccles 5

Permit No. -476-197-Ral-65-2

Oil or Gas Well dry
 (KIND)

Company Columbian Carbon Company
 Address Box 873, Charleston 23, W. Va.
 Farm Rowland Land Co Acres 49, 427
 Location (waters) Left Fork of Wingrove Br.
 Well No. 13 - GW-895 Elev 2084'
 District Clear Fork County Raleigh
 The surface of tract is owned in fee by Rowland Land Co
1033 Quarrier St. Address Charleston, W. Va.
 Mineral rights are owned by same

Address _____
 Drilling commenced 3-1-57
 Drilling completed 5-11-57
 Date Shot _____ From _____ To _____
 With notshot

Open Flow /10ths Water in _____ Inch
 _____ /10ths Merc. in _____ Inch
 Volume dry _____ Cu. Ft.
 Rock Pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 WELL ACIDIZED not acidized

WELL FRACTURED see reverse side

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer <u>Gas</u>
16			<u>Anchor</u>
18 3/8" 48#	37'	37'	Size of <u>8-5/8" x</u>
10 3/4" 35#	654'4"	654'4"	<u>10-3/4"</u>
8 1/2" 24#	1843'10"	1843'10"	Depth set <u>1838'</u>
2 3/8" 23#	2716'8"	2716'8"	
5 3/16			Perf. top _____
8			Perf. bottom _____
2			Perf. top _____
			Perf. bottom _____

CASING CEMENTED	SIZE	No. Ft.	Date

COAL WAS ENCOUNTERED AT	FEET	INCHES	FEET	INCHES

RESULT AFTER TREATMENT

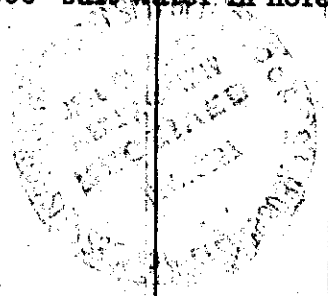
ROCK PRESSURE AFTER TREATMENT

Fresh Water _____ Feet Salt Water 2527' Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Drilled deeper record - old total depth 1838'							
Sand			1838	1860			
Lime			1860	1886			
Red Rock			1886	1896			
Sandy Lime			1896	1921			
Sand			1921	1931	Gas	1931'	show
Red Rock and Lime			1931	1970			
Lime			1970	2000			
Slate and Shells			2000	2020			
Red Lime			2020	2127			
Slate and Shells			2127	2152			
Sand			2152	2193			
Slate and Shells			2191	2205			
Red Rock			2205	2229			
Broken Lime			2229	2277			
Red Rock			2277	2287			
Lime			2287	2336			
Gritty Lime			2336	2350			
Maxon Sand			2350	2410	Gas	2389' incr.	from 39M to 49M
Lime			2410	2453			
Sand			2453	2551	Gas	2488-91' incr.	to 53, 730 cu. ft
Slate and Shells			2551	2577			
Lime			2577	2664	S. Water	2527'	150'
Pencil Cave			2664	2669			
Lime			2669	2704			
Slate			2704	2715			



Formation	Color	Hard or Soft	Top //	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime			2715	2990			
Red Injun Sand			2990	3060			
Slate			3060	3075			
Lime			3075	3150			
Sand <i>Green</i>			3150	3235	Gas	3171-77'	show
Slate and Shells			3235	3316			
TOTAL DEPTH-----			3316'				
<p>Plugged back to 3230' and attempted to fracture 5-11-57. Estimated had about 1000# of sand in when packer let go. Started to swab off, made 300' salt water in hole and a show of gas.</p>							



DATE RECORDED _____ Date _____, 19____

APPROVED _____ Owner _____

By _____ (Title)

