

Company **COLUMBIAN CARBON COMPANY**
 Address **BOX 873 CHARLESTON W.VA.**
 Farm **UNITED STATES OF AMERICA**
"PART OF TR. 746"
 Tract **No. 746** Acres **611.2** Lease No. **BLMA-022921**
 Well (Farm) No. **2[?] B-1** Serial No. **GW-1203**
 Elevation (Spirit Level) **3910.63'**
 Quadrangle **SPRUCE KNOB 5 S-149 W-248**
 County **PENDLETON** District **CIRCLEVILLE**
 Engineer **R. B. Anderson**
 Engineer's Registration No. **2074**
 File No. _____ Drawing No. **W-5-54**
 Date **JULY 20 1954** Scale **1" = 2000'**

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

WELL LOCATION MAP
 FILE NO. PCND-4

+ 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.

5-0-0 Deep Well

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 7

Quadrangle Spruceknob 5 SW

Permit No. Pen-4

WELL RECORD

Oil or Gas Well dry dry hole
(KIND)

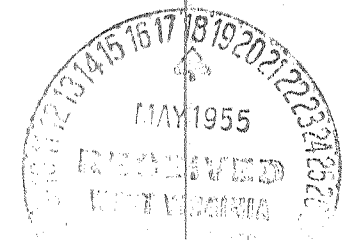
Company Columbian Carbon Co. Operator
Address Box 873, Charleston 23, W. Va.
Farm United States of America E-1 Acres 611.2
Location (waters) _____
Well No. E-1 (CU-1203) Elev. 3910.63' G
District Circleville County Pendleton
The surface of tract is owned in fee by Bureau of Land Mgmt.
Interior Building Address Washington 25, D.C.
Mineral rights are owned by same
Address _____
Drilling commenced 7-27-54
Drilling completed 5-9-55
Date Shot not shot From _____ To _____
With see reverse side for Petrofracing record
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume dry _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 118' 140' 235' feet _____ feet
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
18			
12 7/8" 140'	2311"	2311"	
10 3/4" 140'	1016'9"	pulled	Size of
8 1/2" 214'	2286'5"	pulled	
6 3/4" 234'	6197'	6197'	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
5 1/2"	201'	201'	Perf. bottom
ran between 6093' and 6291'			

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
see reverse side
COAL WAS ENCOUNTERED AT none FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Soil			0	8			
Lime			8	30			
Slate			30	36			
Dark Lime			36	124			
Lime Shells			124	195	F. water	118'	4-12 1/2" blr/hr.
Slate & Lime Shells			195	1905	F. water	140'	10-12 1/2" blr/hr.
Hard Gritty Lime			1905	1995	F. water	235'	hole full
Slate & Lime Shells			1995	2130			
Hard Sand			2130	2170			
Shale and Lime Shells			2170	2245			
Sand			2245	2292			
Lime			2292	2342			
Slate and Shells			2342	4865			
Lime			4865	4920			
Slate & Shells			4920	5068			
Lime			5068	5086			
Slate and Shells			5086	5318			
Brown Shale			5318	5335			
Black Shale			5335	5649			
Hard Lime Shells			5649	5656			
Black Shale - <i>Marcellus?</i>			5656	6012			
Lime			6012	6016			
Shale			6016	6078			
Lime			6078	6088			
Brown break			6088	6095			
Lime - <i>Onondaga</i>			6095	6113			
Grey Shale - <i>Nedmore</i>			6113	6115' DLM			
				6154' SIM			
Chert - <i>Huntersville</i>			6154' CIM	6263' <i>also E gas</i>		6263' CLM	smell
Oriskany			6263' SIM	6292			
Lime - <i>Heldreberg</i>			6292	6100			
Sand & Lime			6100	6150'			
			TOTAL DEPTH	6150'			

(Over)



6154 6263
3911 3911
- 2243 - 2352

Formation	Color	Hard or Soft	Top 7	Bottom	Oil, Gas or Water	Depth Found	Remarks
Casing Record:							
10-3/4"							ran 19 sacks Aquagel.
8-5/8"							ran 25 sacks Aquagel.
7"							ran 40 sacks Aquagel and 40 sacks cement.
Petrofraced 5-13-55. Pumped in 30 bbls. oil to break down formation at 2500# maximum pressure. Pumped in 48 bbls. Petrofrac oil mixed with 4000# sand. Maximum pressure 3500#. Flushed with 30 bbls. oil. Smell of gas at 6263' SLM before fracturing - no sign of gas after fracturing.							

Date May 17, 1955

APPROVED _____, Owner