

New Location... S 88-30W 7491.0'

Drill Deeper.....

Abandonment.....

Company COLUMBIAN CARBON COMPANY

Address BOX 873 CHARLESTON, W.VA.

Farm CHERRY RIVER BOOM & LUMBER CO.
PART OF 60,199.63 Ac.

Tract _____ Acres 3488 Lease No. C-4847

Well (Farm) No. 1 Serial No. GW-1247

Elevation (Spirit Level) 2884.20 (V.A.)

Quadrangle LOBELIA-3 S-120 W-109

County GREENBRIER District FALLING SPGS.

Engineer [Signature]

Engineer's Registration No. 2074

File No. _____ Drawing No. W-20-56

Date JULY 20, 1956 Scale 1" = 1000'

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

WELL LOCATION MAP
FILE NO. GREEN-10

+ 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



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 2

Quadrangle Lobelia 3 SW

Permit No. Green-10

WELL RECORD

Oil or Gas Well dry
(KIND)

Company Columbian Carbon Company
Address Box 873, Charleston 23, W. Va.
Farm Cherry River Boom & Lmbr. Co. Acres 3,488
Location (waters) Little Lick Run
Well No. 1 - GW-1247 Elev. 2,884.20' VA
District Falling Springs County Greenbrier
The surface of tract is owned in fee by United States of America
Monongahela Nat'l Forest Address Richwood, W. Va.
Mineral rights are owned by Cherry River Boom & Lmbr. Co
912 First Nat'l Bank Bldg Address Scranton, Penna.
Drilling commenced 8-25-56
Drilling completed 5-14-57
Date Shot not shot From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED not acidized

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-------------------|------------------|---------------|--|
| Size | | | |
| 18 3/8" 48# | 51'8" | 51'8" | Kind of Packer <u>Midget</u> <u>Bottom Hole</u> |
| 10 3/4" 32# | 400' | <u>Pulled</u> | Size of <u>8 x 5</u> |
| 8 5/8" 24# | 1643'6" | 340' | Depth set <u>4510' SLM</u> |
| 5 1/2" 15# | 4547'11" | 423'4" | Perf. top _____ Perf. bottom _____ Perf. top _____ Perf. bottom _____ |
| Liners Used | | | |

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

See reverse side.

COAL WAS ENCOUNTERED AT none FEET _____ INCHES _____
FEET _____ INCHES _____ FEET _____ INCHES _____
FEET _____ INCHES _____ FEET _____ INCHES _____

WELL FRACTURED Plugged back to 4519' and fractured Benson on 5-31-57. Loaded with water. Broke down at 850#. Pumped in 4000# of sand with water. Displaced to bottom.

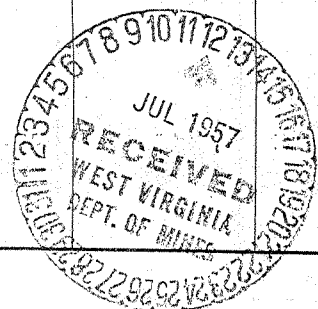
RESULT AFTER TREATMENT Show of gas. 2 bailers of water per hour

ROCK PRESSURE AFTER TREATMENT

Fresh Water 85' 615' Feet Salt Water 1400' 1656' 2350' Feet

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth | Remarks |
|------------------------|-------|--------------|------|--------|-------------------|-------|--------------|
| Sand | | | 0 | 15 | | | |
| Clay | | | 15 | 25 | | | |
| Sand | | | 25 | 45 | | | |
| Red Rock | | | 45 | 76 | | | |
| Lime | | | 76 | 98 | Fresh water | 85' | 4 bailers/hr |
| Slate & Shells | | | 98 | 145 | | | |
| Red Rock | | | 145 | 190 | | | |
| Lime | | | 190 | 230 | | | |
| Black Slate | | | 230 | 236 | | | |
| Lime | | | 236 | 265 | | | |
| Red Rock | | | 265 | 271 | | | |
| Lime | | | 271 | 322 | | | |
| Sand 401'dlm - 399'slm | | | 322 | 408 | | | |
| Lime Shells | | | 408 | 484 | | | |
| Pink Lime | | | 484 | 494 | | | |
| Red Rock | | | 494 | 574 | | | |
| Lime | | | 574 | 612 | Fresh water | 615' | 1/2 blr/hr |
| Pink Lime | | | 612 | 642 | | | |
| Red Rock | | | 642 | 715 | | | |
| Lime | | | 715 | 746 | | | |
| Sand | | | 746 | 802 | | | |
| Red Rock | | | 802 | 858 | | | |
| Lime | | | 858 | 922 | | | |
| Sand | | | 922 | 947 | | | |
| Red Rock | | | 947 | 1008 | | | |
| Lime | | | 1008 | 1036 | | | |
| Red Rock | | | 1036 | 1079 | | | |
| Lime | | | 1079 | 1142 | | | |
| Pink Rock | | | 1142 | 1157 | | | |
| Red Rock | | | 1157 | 1241 | | | |

(over)



| Formation | Color | Hard or Soft | Top <i>2</i> | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|------------------------|---|--------------|--------------|--------|-------------------|-------------|---------------|
| Lime | | | 1241 | 1306 | | | |
| Red Rock | | | 1306 | 1364 | | | |
| Slate | | | 1364 | 1374 | | | |
| Sand | 1382'dlm - 1384'slm | | 1374 | 1420 | Salt water | 1400' | 2½ bailers/hr |
| Slate & Shells | | | 1420 | 1450 | | | |
| Black Lime | | | 1450 | 1510 | | | |
| Slate | | | 1510 | 1517 | | | |
| Lime | | | 1517 | 1545 | | | |
| Sand | | | 1545 | 1602 | | | |
| Slate & Shells | | | 1602 | 1615 | Salt water | 1656' | 5 bailers/hr |
| Black Lime | | | 1615 | 1717 | Gas | 1689' | Small |
| Gray Lime | | | 1717 | 1912 | | | |
| Gritty Lime | | | 1912 | 1930 | | | |
| Gray Lime | | | 1930 | 2053 | | | |
| Red Rock & Lime Shells | | | 2053 | 2077 | | | |
| Sand | | | 2077 | 2092 | | | |
| Broken Sand | | | 2092 | 2128 | | | |
| Gritty Lime | | | 2128 | 2404 | Salt water | 2350' | 3 bailers/hr |
| Slate & Shells | | | 2404 | 2530 | | | |
| Sand | | | 2530 | 2540 | | | |
| Red Rock | | | 2540 | 2544 | | | |
| Slate & Shells, red | | | 2544 | 2605 | | | |
| Red Lime | | | 2605 | 2640 | | | |
| Slate & Shells | | | 2640 | 2690 | | | |
| Gritty Lime | | | 2690 | 2725 | | | |
| Slate & Shells | | | 2725 | 2745 | | | |
| Red Lime | | | 2745 | 2798 | | | |
| Slate & Shells | | | 2798 | 2850 | | | |
| Hard, gritty Lime | | | 2850 | 2863 | | | |
| Slate | | | 2863 | 2866 | | | |
| Hard Sand | | | 2866 | 2970 | | | |
| Lime Shells and Grit | | | 2970 | 3050 | | | |
| Sand | | | 3050 | 3068 | | | |
| Broken Lime | | | 3068 | 3108 | | | |
| Hard Lime | | | 3108 | 3360 | | | |
| Slate & Shells | | | 3360 | 3400 | | | |
| Hard Lime | | | 3400 | 3635 | | | |
| Sand | | | 3635 | 3652 | | | |
| Lime | | | 3652 | 3665 | | | |
| Sand | | | 3665 | 3678 | | | |
| Hard, gritty Lime | | | 3678 | 3850 | | | |
| Lime Shells and Slate | | | 3850 | 3950 | | | |
| Hard Lime | | | 3950 | 4118 | | | |
| Lime Shells | | | 4118 | 4285 | | | |
| Hard Lime | | | 4285 | 4360 | | | |
| Slate & Shells | | | 4360 | 4404 | | | |
| Lime | | | 4404 | 4428 | | | |
| Slate & Shells | 4515'slm - 4524'dlm | | 4428 | 4506 | | | |
| Hard Lime | 4519'dlm - 4510'slm | | 4506 | 4544 | Gas | 4539' | Show |
| Dark, gritty Lime | 4570'dlm-4561'slm | | 4544 | 4575 | | | |
| Gray Lime | | | 4575 | 4603 | | | |
| Gray broken Lime | | | 4603 | 4641 | | | |
| Hard Gritty Lime | | | 4641 | 4667 | | | |
| TOTAL DEPTH | | | | 4667' | | | |
| PLUGGED AND ABANDONED | 6-22-57. | | | | | | |
| <u>CASING RECORD</u> | | | | | | | |
| 9-15-56 | Ran 400' of 10 3/4" O.D. 32# casing with Midget Bottom Hole Packer set at 399' slm. | | | | | | |
| 1-4-57 | Ran 1643' 6" of 8 5/8" O.D. 24# casing with 8 5/8" casing shoe set at 1643'dlm. Cemented with 75 sacks. | | | | | | |
| 5-22-57 | Ran 4547' 11" of 5 1/2" O.D. 15# casing with Midget Bottom Hole Packer set at 4510'slm. Ran 32 bags of aquagel and 50 sacks of cement. Circulation and returns. | | | | | | |

Date July 3, 19 57

APPROVED Columbian Carbon Company, Owner

By R. B. Anderson, General Manager
(Title)