

0.48 S.
2.32 W.
3 NC (I-13)

Revised Location

New Location

Drill Deeper

Abandonment

Company **COLUMBIAN CARBON COMPANY**

Address **BOX 873 CHARLESTON W.VA.**

Farm **UNITED STATES OF AMERICA**
PART OF 1863.6132 ACRES

Tract **32** Acres **LOT No. 10** Lease No. **4436-B**
OF RICHARD SMITH "GRANT"

Well (Farm) No. **G-10** Serial No. **GW-1304**

Elevation (Spirit Level) **3355.41'**

Quadrangle **SPRUCE KNOB N.W. 5-048 W-232**

County **RANDOLPH** District **DRY FORK**

Engineer **R. B. Anderson**

Engineer's Registration No. **2074**

File No. _____ Drawing No. **W-11-59 REVISED**

Date **May 11-1959** Scale **1"=2000**

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

WELL LOCATION MAP
FILE NO. RAV-108

+ 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.

Samples 19-F (4300-6600)

Deep Well 16-0 261



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 6

Quadrangle Spruce Knob SW

Permit No. RAN-108

WELL RECORD

Oil or Gas Well dry hole
(KIND)

Company Columbian Carbon Company, Oper.
Address Box 873, Charleston 23, W. Va.
Farm United States of America Acres 600
Location (waters) East Fork of Glady Fork
Well No. G-10 GW-1304 flange head Elev. 3259.18'
District Dry Fork County Randolph
The surface of tract is owned in fee by Director, Bureau of Land Management
Interior Bldg. Address Washington, D. C.

Mineral rights are owned by same
Address _____

Drilling commenced 6-15-59
Drilling completed 8-8-59
Date Shot not shot From _____ To _____
With _____

Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume show 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			Kind of Packer
16			<u>none</u>
13 3/8" 48#	33'9"	33'9"	Size of
10 3/4" 32#	859'7"	859'7"	Depth set
8 1/2" 23#	6620'1"	2736'8"	Perf. top
5 3/16			Perf. bottom
3			Perf. top
2			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 see fracturing record on reverse side

RESULT AFTER TREATMENT no gas

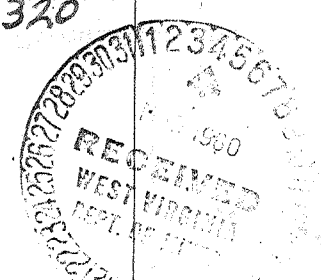
ROCK PRESSURE AFTER TREATMENT _____

Fresh Water 38' Feet _____ Salt Water _____ Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface			0	10			
Slate			10	25			
Slate			25	80	F. water	38'	
Sand			80	100			
Siltstone			100	230			
Sand			230	250			
Slate and Shells			250	373			
Sand			373	560			
Gritty Lime			560	725			
Slate			725	760			
Broken Lime			760	800			
Slate			800	2900			
Shale and Lime			2900	3850			
Shale			3850	5870			
Lime and Shale			5870	6050			
Chert			6050	6120			
Shale			6120	6140			
Chert			6120	6260			
Shale			6260	6300			
Oriskany Sand			6300	6511	gas show	6320'	
Helderburg			6511	6600	Rotary		
				6588	Landing Flange		
Total depth				6600	Rotary=6588'	Landing Flange	

Onondagan Lime and chert

5972 - 6138 (well is faulted) from (Tidewater)



F-59

Formation	Color	Hard or Soft	Top 6	Bottom	Oil, Gas or Water	Depth Found	Remarks
<u>CASING RECORD</u>							
10-3/4" casing ran at 850'DLM with shoe - cemented with 230 sacks. Circulation and returns.							
7" ran at total depth with 7" guide shoe - cemented with 275 sacks.							
<u>FRACTURING RECORD</u>							
Ran 3-1/2" tubing with Baker Model "A" Retainer packer. 9-22-59 Fractured the Chert. Ran 1,000 gallons MCA, 12,000 gallons water and sand and 14,000# sand. Used 100 gallons TMN and 54 gallons T-08 Tergitol. Pulled tubing - gas comes and goes. Cleaned out and perforated Oriskany with 216 shots. Chert gas gauging 21,060 cubic feet-no increase in gas when perforating Oriskany.							
10-12-59 Ran 3" tubing with Baker Model "A" packer set at 6249'-show of gas in tubing only. 10-13-59 Fractured the Oriskany. Used 22,800 gallons sand and water, 1,500 gallons mud acid, 27,500# sand. Broke down at 3100#-broke to 2500#. Maximum treating pressure 3800#. Pressure 2700# most of time when running in sand and water. Flushed with 80 barrels water-injection rate 16.3 barrels per minute. Used 110 gallons TMN Tergitol and 110 gallons T-08.							
Pulled tubing and bailed hole dry.							
10-28-59 Perforated Chert 6042-84' 6143-56' 6160-76' 6178-84' with 2 shots per foot=162 shots. Set Baker Bridge Plug at 6275' to shut off Oriskany water.							
Ran Baker Model "A" packer on 3" tubing at 5968' - gas gauging 10 MCF.							
10-31-59 Refractured the Chert. Pumped in 1500 gallons MCA-displaced-broke down with 1200 gallons water and tergitol. 3500# maximum pressure-no break. Pumped in sand and water-maximum pressure 3700#-minimum 2900#. Used 34,986 gallons water and sand, 32,500# sand (27,500#20-40 sand and 5,000# 10-30 sand). Released packer and pulled tubing. Tested well. Re-ran tubing on Model "A" packer set at 6105' and reset at 6129'. Released packer. Blew well-gas gauging from 10M to 25M.							
Plugged and abandoned 2-11-60.							

Date March 3, 19 60

APPROVED Columbian Carbon Co., Oper., Owner

By W. S. Moore, Mgr. of Production
(Title)