

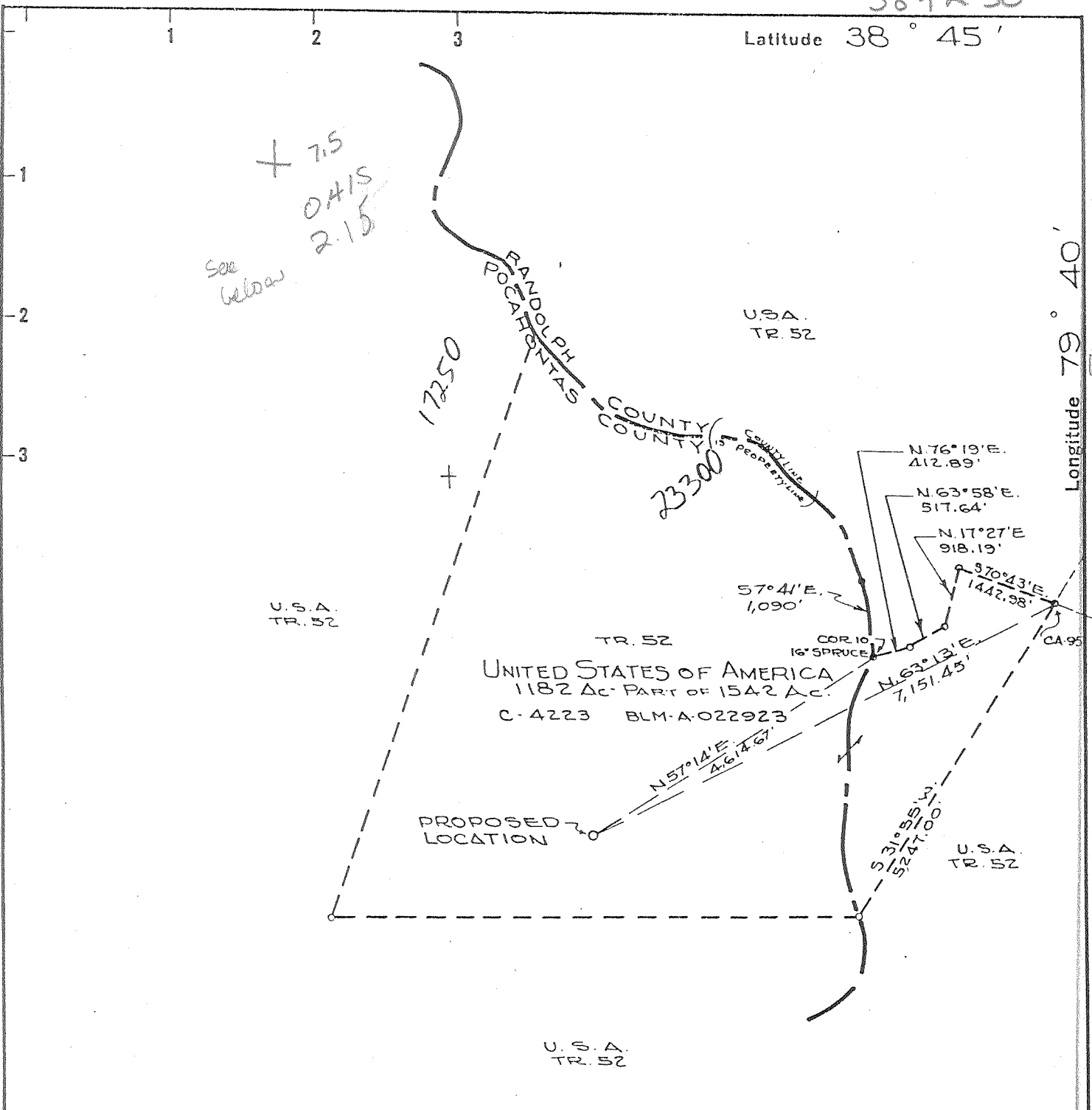
38 42 30

Latitude 38° 45'

Longitude 79° 40'

79 42 30

+ 7.5
0.41 S
2.15
See below



7.5' loc tra 2/10/2010
 0.395 38° 42' 30"
 2.16 W 79° 42' 30"
 15' loc calc
 3.275
 4.41 W

New Location
 Drill Deeper
 Abandonment

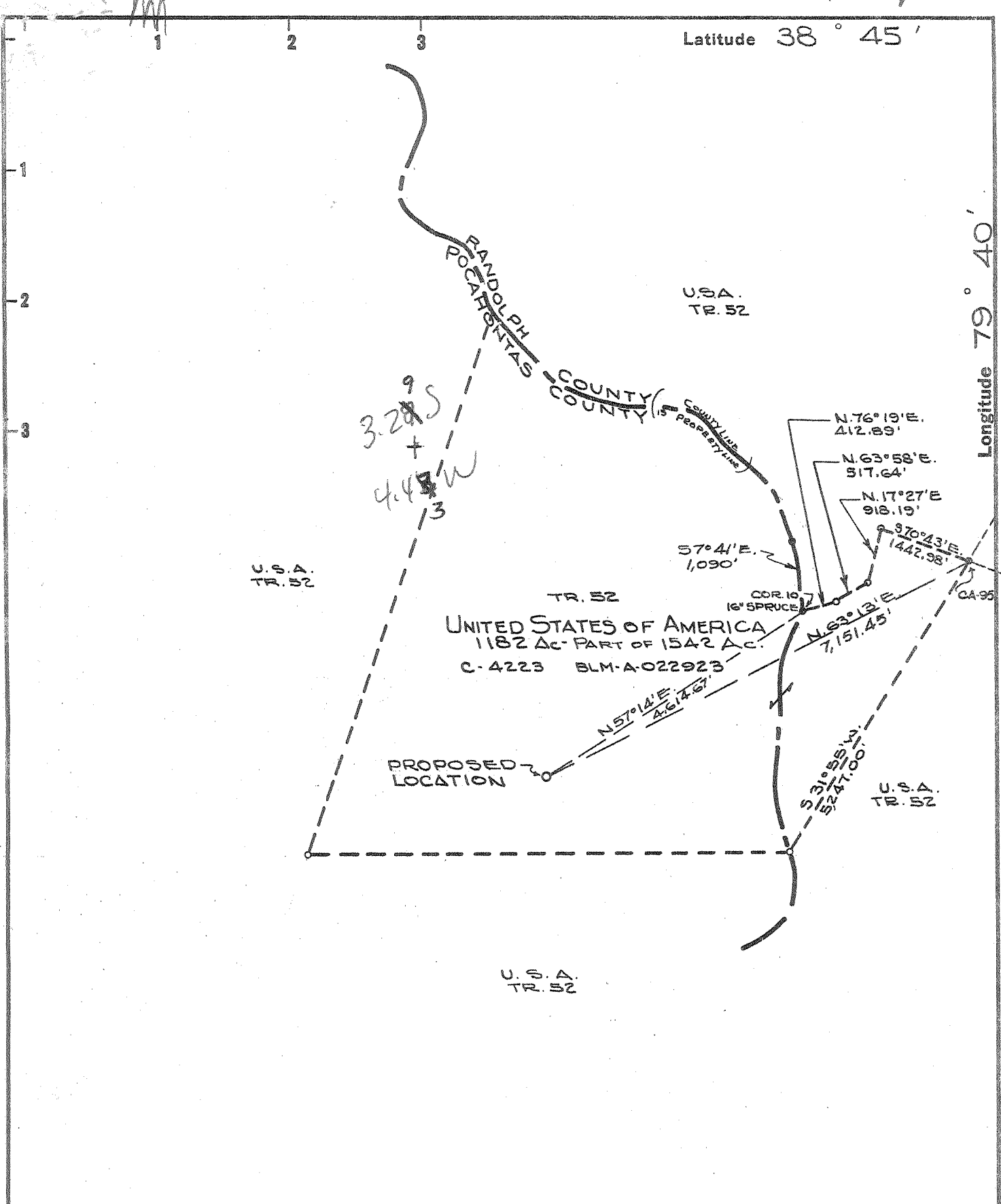
Company COLUMBIAN CARBON CO.
 Address BOX 873 CHARLESTON, W.VA.
 Farm UNITED STATES OF AMERICA
 Tract 52 Acres 1542 Lease No. C-4223 BLM-A-022923
 Well (Farm) No. H-2 Serial No. GW-1276
 Elevation (Spirit Level) 3502.83
 Quadrangle SPRUCE KNOB-3-NW *Sinks of Gandy*
 County POCAHONTAS District GREEN BANK
 Engineer R. B. Anderson
 Engineer's Registration No. 2074
 File No. _____ Drawing No. W-16-57
 Date 8-16-57 Scale 1"=2000'

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

WELL LOCATION MAP
 FILE NO. POCA-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.



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 Drill Deeper
 Abandonment

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6-6 291
 see log. Strip
 Deep Well
 Fract 1958



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Spruce Knob 3 NW

Quadrangle
Permit No. POCA-10

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Columbian Carbon Company, Operator
 Address Box 873, Charleston 23, W. Va.
 Farm United States of America Acres 1542
 Location (waters) Greenbrier River
 Well No. H-2 GW-1276 Elev. 3502.83'G
 District Greenbank County Pocahontas
 Director, Bureau of Land Management
 The surface of tract is owned in fee by Interior Bldg. Address Washington 25, D.C.
 Mineral rights are owned by Same Address _____
 Drilling commenced 9-28-57
 Drilling completed 11-29-57
 Date Shot not shot From _____ To _____
 With _____
 Open Flow 70 /10ths Water in _____ Inch
 _____ /10ths Merc. in 3" Inch
 Volume 2,929,000 Cu. Ft.
 Rock Pressure 2,000 lbs. 54 hrs.
 Oil _____ bbls., 1st 24 hrs.
 WELL ACIDIZED not acidized
 WELL FRACTURED See reverse side. 1958

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer <u>Baker</u>
16 <u>3/8" 48'</u>	<u>69'</u>	<u>69'</u>	<u>Full Bore Packer</u>
13 <u>3/4" 32'</u>	<u>981'10"</u>	<u>981'10"</u>	Size of <u>3" x 7"</u>
10 <u>8 1/4" 7" 23'</u>	<u>6222'2"</u>	<u>6222'2"</u>	Depth set <u>5248'</u>
8 <u>5 3/16" 1 1/2" 9.2'</u>	<u>5284'9"</u>	<u>5284'9"</u>	Perf. top _____
3 _____			Perf. bottom _____
2 _____			Perf. top _____
Liners Used _____			Perf. bottom _____

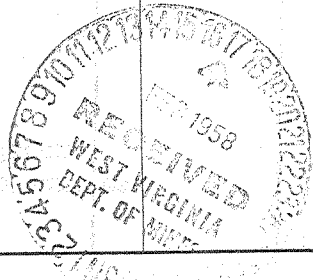
CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
See reverse side.
 COAL WAS ENCOUNTERED AT None FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT 21,035,000 cubic feet
 ROCK PRESSURE AFTER TREATMENT 76 hrs. - 1985'
 Fresh Water 85' Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
State & Shells			0	50			
Slate			50	80			
Red Lime			80	85	Fresh Water	85'	1 bailer/hr
Slate			85	95			
Lime			95	107			
Pink Lime			107	115			
Slate			115	125			
Lime			125	306			
Red Rock			306	314			
Gray Shale			314	350			
Lime			350	395			
Red Rock			395	420			
Sand			420	540			
Lime			540	832			
Sand			832	895			
Lime			895	925			
Sand			925	960			
Slate & Shells			960	1039			
Sand			1039	1077			
Lime and Shale			1077	2134			
Sand & Shale			2134	2203			
Shale & Shells			2203	2800			
Sand & Shale			2800	3425			
Shale			3425	4710			
Dark Shale			4710	4855			
Shale			4855	5195			
Black Shale			5195	5210			
Shale			5210	5735			
Chert			5735	5880			
Shale			5880	5921			

Examined by McLeod

Posted 1958 REPT Fract



Formation	Color	Hard or Soft	Top γ	Bottom	Oil, Gas or Water	Depth Found	Remarks
Oriskany Sand Shale			5921 6164	6164 6167			
TOTAL DEPTH -----							6167' Rotary Measurement 6153' Landing Flange
Cable tools	0 - 997						
Rotary tools	997 - 6167'						Rotary Measurement 6153' Landing Flange Measurement
<u>CASING RECORD</u>							
10-25-57	- Ran 10 3/4" casing on shoe at 983'DLM. Cemented with 280 sacks.						
12- 1-57	- Ran 7" casing with guide shoe at 6167' Rotary Measurement. Cemented with 210 sacks.						
<u>PERFORATING RECORD - 7" casing.</u>							
5784-5799'	2 shots/foot		30 shots				
5942-5952'	4 "	"	41 "				
5980-5984'	4 "	"	16 "				
5990-5996'	4 "	"	24 "				
5999-6025'	2 "	"	52 "				
6025-6034'	4 "	"	36 "				
6045-6050'	4 "	"	20 "				
6068-6075'	4 "	"	28 "				
Total shots			246				
<u>FRACTURING RECORD</u>							
Perforated 7" casing from 5784-99', show of gas. Perforated 6045-50'; 6068-75' gas gauged 50/10 W 7" 23# - 3,016M. Killed well and completed perforating.							
1-20-58 - Ran Baker Full Bore Packer on 3" tubing. Set packer at 5248'. Gas gauged 70/10 M 3" 2,929M. 54 hour pressure 2,000#. Pumped in 2 barrels kerosene and 2,000 gallons Mud Acid. Maximum pressure 3050#, broke down to 2900#. Called 12,000 gallons kerosene. Injection rate 857 gallons per minute. Used 16,500# of sand, 300 perforation balls.							
Final open Flow 88# on Spring Gauge through 3" - 21,035M. 76 hour pressure 1965#.							

Date February 13, 19 58

APPROVED Columbian Carbon Company, Oper. Owner
By R. B. Anderson, General Manager.
(Title)