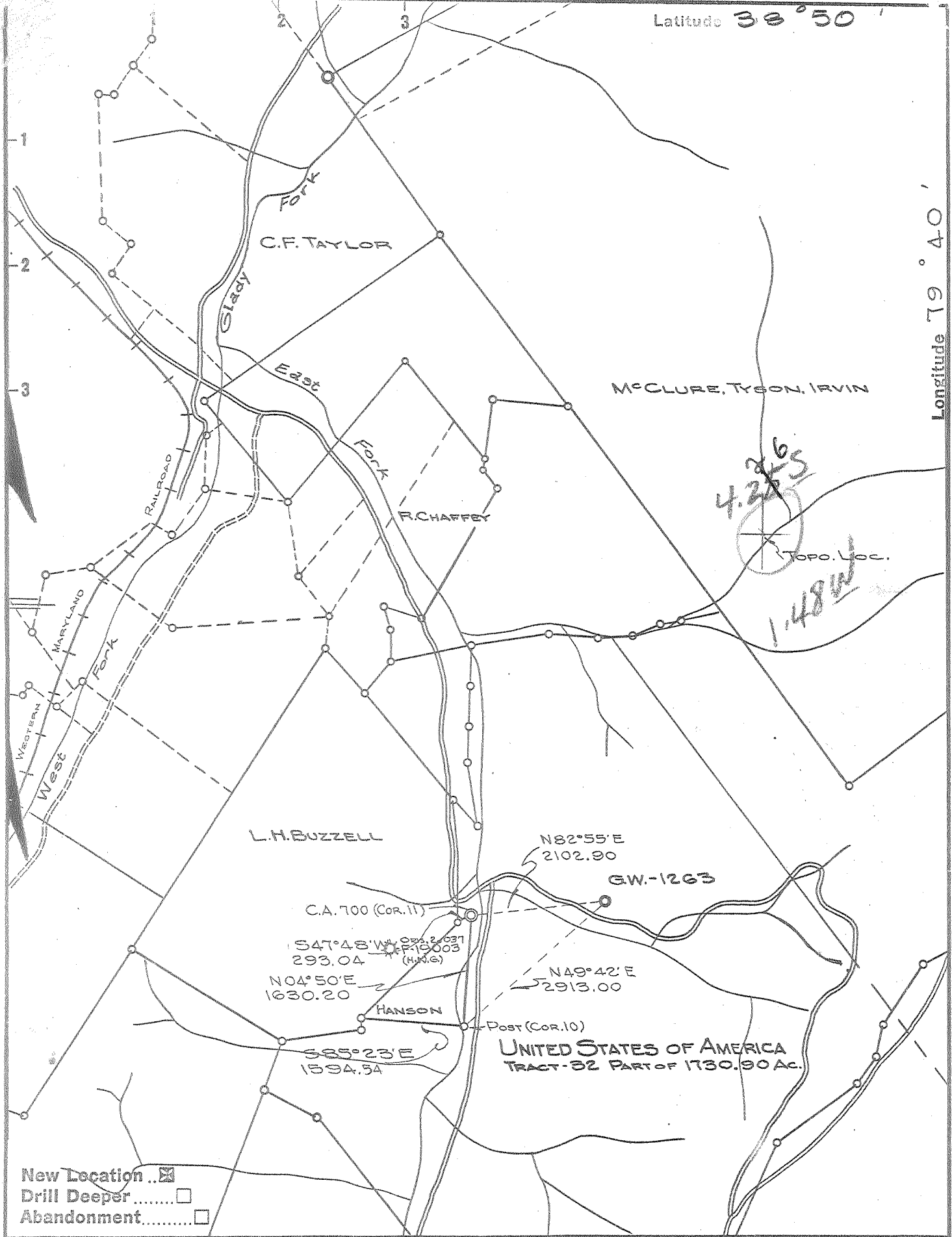


See Sample log

P L



Company COLUMBIAN CARBON Co.

Address Box 873, CHARLESTON, W. VA.

Farm UNITED STATES OF AMERICA
C-4436F

Tract 32 Acres 1730.90 Lease No. BLM-A-032320

Well (Farm) No. G-2 Serial No. G.W. 1263

Elevation (Spirit Level) 3020.20

Quadrangle HORTON-S.W. S-425 W-163

County FANDOLPH District DRY FORK

Engineer _____

Engineer's Registration No. 2074

File No. _____ Drawing No. W-3-57

Date 2-15-57 Scale 1" = 2000'

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

WELL LOCATION MAP
FILE NO. TRAN-93

+ 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.

6-6 261 ✓ Deep well



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Horton 9 SW

Permit No. Ran-93

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 1730.90
Location (waters) East Fork of Glady Fork
Well No. C-2 GW-1263 Elev. 3020.20'
District Dry Fork County Randolph
The surface of tract is owned in fee by Director, Bureau of Land Management
Interior Bldg. Address Washington, 25, D.C.
Mineral rights are owned by Same
Address _____

Drilling commenced 7-3-57
Drilling completed 9-21-57
Date Shot not shot From _____ To _____
With _____

Open Flow _____ /10ths Water in _____ Inch
72 /10ths Merc. in 7" 23# Inch
Volume 13,363,000 Cu. Ft.
Rock Pressure 2,000# lbs. 24 hrs.
Oil _____ bbls., 1st 24 hrs.

WELL ACIDIZED not acidized
WELL FRACTURED not fractured

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			None
18 3/8" 48#	50'	50'	Size of
10 3/4" 40.5#	822'4"	822'4"	Depth set
8 1/2"			Perf. top
5 3/16"	4952'10"	4952'10"	Perf. bottom
3"			Perf. top
2 (Not tubed)			Perf. bottom
Liners Used			

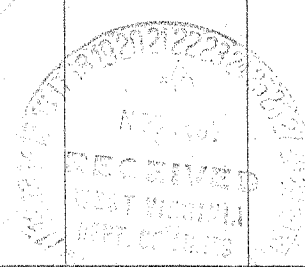
CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
See reverse side
COAL WAS ENCOUNTERED AT None FEET _____ INCHES _____
FEET _____ INCHES FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT

ROCK PRESSURE AFTER TREATMENT

Fresh Water 68' Feet _____ Salt Water _____ Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Gravel			0	10			
Sand			10	20			
Slate			20	28			
Lime			28	40			
Slate			40	49			
Lime			49	105	Fresh Water	68'	2 1/2 bailers/hr
Slate			105	154			
Lime			154	187			
Slate			187	240			
Lime			240	297			
Slate			297	490			
Lime			490	516			
Slate & Shells			516	595			
Lime			595	722			
Slate & Shells			722	763			
Lime			763	882	816'dlm - 816'slm		
Slate & Shells			882	1088			
Lime & Shells			1088	1119			
Lime			1119	1215			
Shale & Lime			1215	1324			
Lime & Shale			1324	1750			
Lime			1750	1778			
Shale & Lime			1778	2860			
Lime			2860	3000			
Lime and Shale			3000	3167			
Shale			3167	3225			
Shale & Lime			3225	3694			
Shale			3694	3866			
Shale & Lime			3866	3963			
Shale			3963	4205			



Samples examined by McCord

Formation	Color	Hard or Soft	Top 5	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime & Shale			4205	4465			
Shale			4465	4553	4553	4686	
Brown Break			4525		3020	3020	
Chert			4553	4618			
Shale			4618	4686			
Griskany Sand			4686	4891			
Line			4891	4914	1593	1666	
Total depth -----			4914'				
Cable tools	0 to	1075			4525		
Rotary tools	1075 to	4914			3020		
<u>CASING RECORD</u>							
7-7-57 - Ran 50' of 13 3/8" 48# drive pipe							
7-20-57 - Ran 822'4" of 10 3/4" 40.5# casing with shoe at 816' SLM. Ran 250 sacks of cement with 5 sacks of gal ahead of cement. Pumped plug to 800'. Circulation.							
9-23-57 - Ran 4952'10" of 7" O. D. 23# casing with shoe and 5 - 7" centralizers. 1- top of Chert, 1-bottom of Chert, 1-top of Sand, 1-middle of sand, 1-bottom of sand. Pumped top cement plug to 4868'. Ran 160 sks. cement - pumped 400 barrel mud ahead of cement. Perforated 7" from 4855-58, 4865-75 with 28 shots.							
1st gauge - 15 minutes 40/10 M 7" 23# - 9,562,000 cubic feet.							
2nd gauge - 60 minutes 43/10 M 7" 23# - 10,330,000 cubic feet							
Final open flow 72/10 M 7" 23# - 13,363,000 cubic feet. 24 hour rock pressure 2,000#. Natural.							
					4564	4706	4891
					3020	3020	3020
					1544	1686	1871

Date November 19, 19 57

APPROVED Columbian Carbon Company, Owner

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