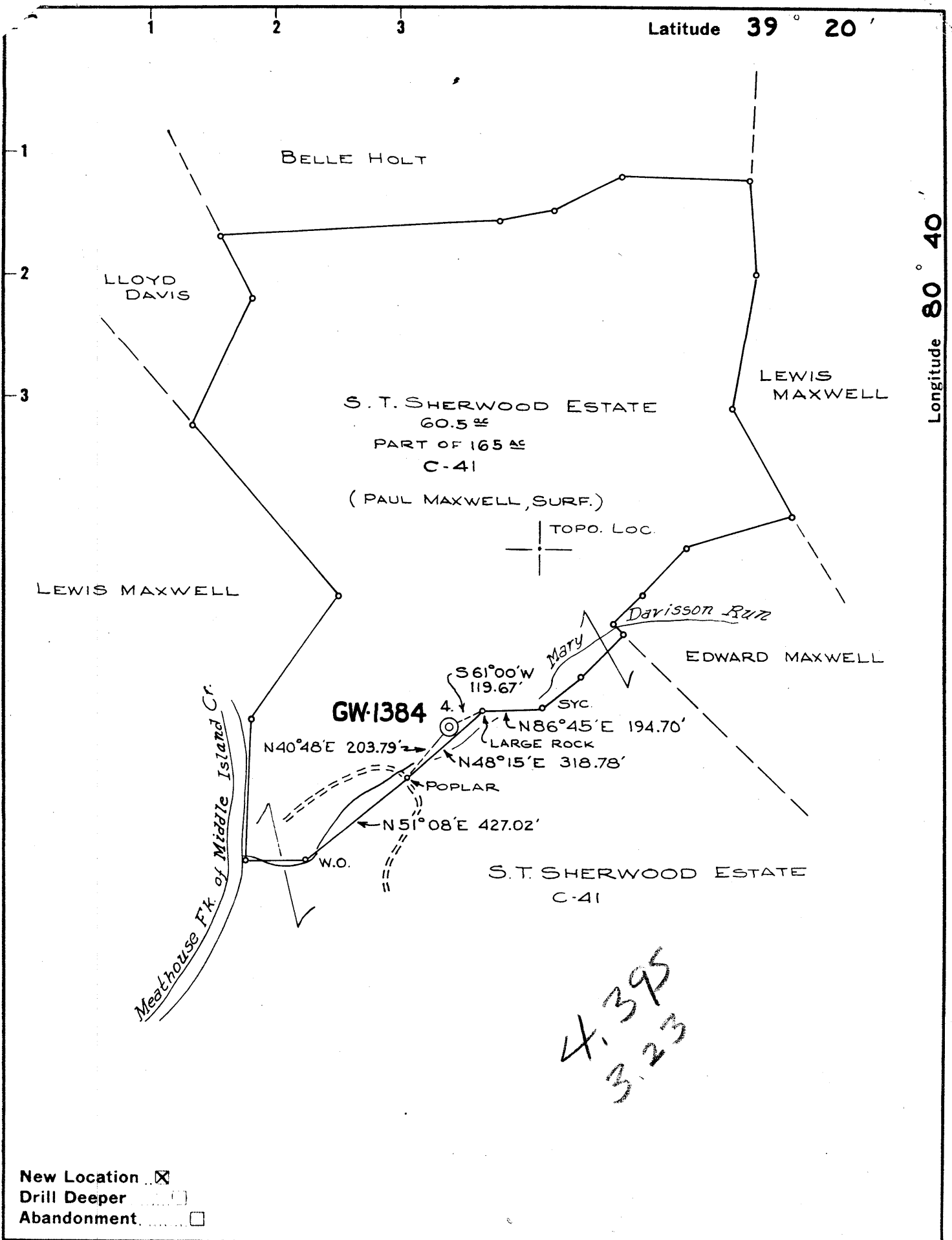


Latitude 39° 20'

Longitude 80° 40'



New Location
 Drill Deeper
 Abandonment

Company COLUMBIAN CARBON CO.
 Address BOX 873, CHARLESTON, W.VA.
 Farm S.T. SHERWOOD ESTATE
PT. OF 165^{AC}
 Tract 3 Acres 60.5 Lease No. C-41
 Well (Farm) No. 4 Serial No. GW-1384
 Elevation (Spirit Level) 861.18
 Quadrangle CENTERPOINT-9 ^{SW} S441 W324
 County DODDRIDGE District NEW MILTON
 Engineer Wendell S. Moore
 Engineer's Registration No. 2113
 File No. _____ Drawing No. W-28-62
 Date JULY 25, 1962 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. Doo-845

+ 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.

Sample 100 to 1907

6-6 79



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 9

Quadrangle Centerpoint 9 SW

Permit No. Dod-845

WELL RECORD

Oil or Gas Well gas
(KIND)

Company Columbian Carbon Company
Address P. O. Box 873, Charleston 23, W. Va.
Farm S. T. Sherwood Estate Acres 60.5
Location (waters) Maathouse Fork
Well No. 4 - GW-1384 Elev. 861.18'
District New Milton County Doddridge
The surface of tract is owned in fee by Robert Gabbert
New Milton Star Route Address West Union, W. Va.
Mineral rights are owned by Blonda L. Groah, et al
Address Blandville, W. Va.
Drilling commenced 8-17-62
Drilling completed 9-16-62
Date Shot not shot From _____ To _____
With _____
Open Flow 11 /10ths Water in _____ 1 Inch
_____ /10ths Merc. in _____ Inch
Volume 35M Cu. Ft.
Rock Pressure 399 lbs. 24 hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED not acidized
WELL FRACTURED see reverse side

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer _____
16			<u>none</u>
13			Size of _____
10 3/4"	<u>21'</u>	<u>21'</u>	Depth set _____
8 1/4"			Perf. top _____
7" 23#	<u>808'9"</u>	<u>808'9"</u>	Perf. bottom _____
5 3/16" 14#	<u>1572'6"</u>	<u>1572'6"</u>	Perf. top _____
3"			Perf. bottom _____
2 3/8" 4#	<u>1689'5"</u>	<u>1689'5"</u>	Perf. top _____
Liners Used w/ 2" cage set at			Perf. bottom _____
	<u>1682'5"</u>		

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
see reverse side

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

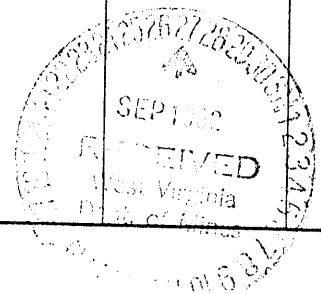
RESULT AFTER TREATMENT F. O. F. 23/10 M. 3" = 1,679 MCF (Big Injun)

ROCK PRESSURE AFTER TREATMENT 62 hours 350#

Fresh Water _____ Feet _____ Salt Water _____ Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Top Soil			0	8			
Shale			8	22			
Sand			22	50			
Gritty Lime			50	105			
Red Rock			105	110			
Lime			110	130			
Slate and Shells			130	162			
Black Slate			162	164			
Lime			164	200			
Slate and Shells			200	305			
Lime and Shale			305	322			
Red Rock			322	327			
Slate and Shells			327	400			
Lime			400	412			
Slate and Shells			412	527			
Red Rock			527	537			
Slate and Shells			537	573			
Gritty Lime			573	605			
Slate and Shells			605	648			
Slate			648	659			
Little Dunkard Sand			659	681			
Slate and Shells			681	717			
Big Dunkard Sand			717	855			
Slate			855	860			
Gritty Lime			860	920			
Slate and Shells			920	950			
Lime			950	990			

(over)



Formation	Color	Hard or Soft	Top ⁹	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate and Shells			990	993			
Gritty Lime			993	1020			
First Salt Sand			1020	1115			
Slate and Shells			1115	1152			
Second Salt Sand			1152	1180			
Slate and Shells			1180	1390			
Gray Slate and Shells			1390	1428			
Red Rock			1428	1431			
Slate and Shells			1431	1472			
Little Lime			1472	1499			
Blue Monday Sand			1499	1535			
Big Lime			1535	1600	1562'DLM=	1562'SLM	
Big Injun			1600	1698	Gas	1623-33' 11/10 W. 1"=35M	
Slate			1698	1707			
Total depth	-----			1707'			
Filled back with cement to	-----			1688'			
Samples:							
Big Injun			1603	1688'			
CASING RECORD							
8-18-62	Ran 10-3/4" drive pipe at 21'DLM.						
8-30-62	Ran 7" casing with shoe 804'DLM-set in 20' red mud.						
9-11-62	Ran 5-1/2" casing with shoe 1562'DLM=1562'SLM - R/L nipple at 776'-cemented with 15 sacks.						
FRACTURED BIG INJUN 9-18-62							
Before fracturing gas gauged 11/10 W. 1"= 35M - 24 hour rock pressure 399#.							
Ran 2,000 gallons acid-displaced slowly-pressure went to 2600#-broke to 400#. Displaced with 50 bbls. water - 7 bbls/minute at 800#. Shut down 2-1/4 hours to soak. Started sand at 3/4#/gallon-1400#. increased sand gradually to 2-1/4# -pressure rose gradually to 1800# at end. Average injection rate 50 bbls/minute. Time-18 minutes. Used 44,000# sand, 800 bbls. water, 1 drum TMN- 1 drum T-08. Flushed with 50 bbls. water.							
Final open flow 23/10 M. 3" = 1,679 MCF.							

Date September 26, 19 62

APPROVED Columbian Carbon Company, Owner

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