

LATITUDE 39° 15' 00"

00' 54" 08" LONGITUDE



7'5 OGIS topo location

7.5' loc 2.235  
1.44W

15' loc 2.235  
(calc.) 1.44W

Company \_\_\_\_\_

Farm \_\_\_\_\_

Quad OXFORD 7 1/2' Holbrook NE

County DODDRIDGE

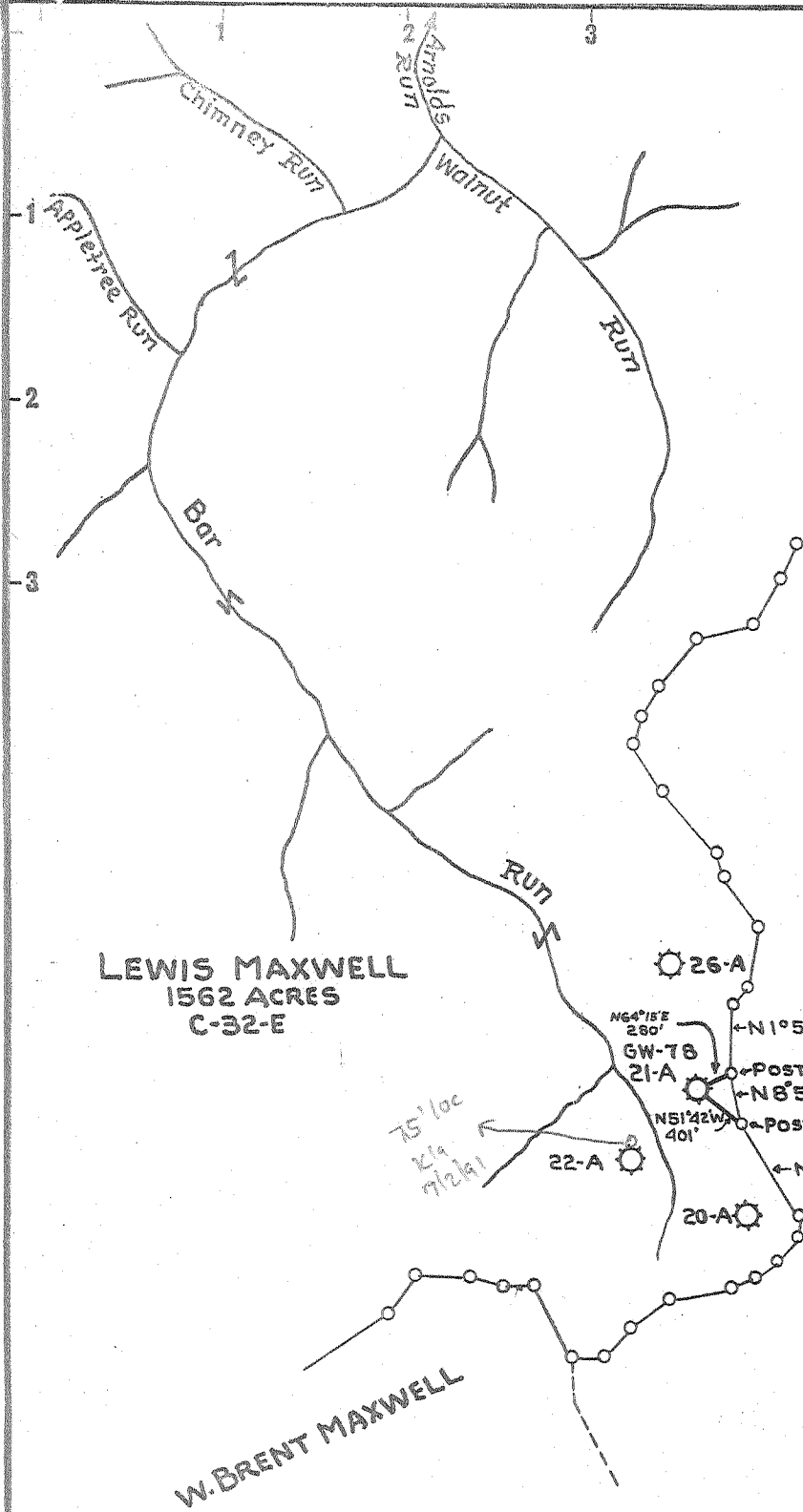
District WEST UNION

WELL LOCATION MAP

File No. 017-2131

Latitude 39° 15'

Longitude 80° 45'



+ 2.209  
1.53W

CARNEGIE GAS COMPANY

LEWIS MAXWELL  
1562 ACRES  
C-32-E

W. BRENT MAXWELL

- New Location..
- Drill Deeper.....
- Abandonment.....

Company	COLUMBIAN CARBON COMPANY
Address	BOX 873 CHARLESTON W.VA.
Farm	LEWIS MAXWELL
Tract	Acres 1562.99 Lease No. C-32-E
Well (Farm) No.	21-A Serial No. GW-78
Elevation (Spirit Level)	1245.00'
Quadrangle	HOLBROOK 1 NE
County	DODDRIDGE District WEST UNION
Engineer	Wendell S. Moore
Engineer's Registration No.	2113
File No.	Drawing No.
Date	MARCH 22 1955 Scale 1" = 1320'

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

WELL LOCATION MAP  
FILE NO. DOD-1046-A

now 017-2131

+ 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.

DODD. 1046-A Now 2131

HOLBROOK-1-NE

CODE No. C. N. 78

NAME Lewis Maxwell #21-A

N. E.

CASING AND TUBING

PACKERS

GAS, WATER AND OIL RECORD

SIZE	PUT IN WELL	PULLED	CASING FT.	SIZE	MAKE	SET AT	LIQUID OR GAS	DEPTH	FT. RAISED IN HOLE	VOLUME
10"	669'	669'					Water	1195		
8 1/2"	1306'	1306'					Gas	1838	14/10 M in 2"	
8-5/8"	1787'		1762'				Oil & Gas	2490-92		572 M
2"	2526'	2626'								

RECORD OF SHOT

DATE SHOT	FROM	TO	SAND	TYPE OF EXPLOSIVE	QUANTITY	PRODUCTION BEFORE SHOT	PRODUCTION AFTER SHOT
Nov. 21, 1918			Gordon Nitrolyo.		20qts		34/10 M. in 2" = 907 M

YEAR	DEPLETION CALCULATION	GRAPHIC LOG	FROM	TO	THICKNESS	FORMATION
		LOG	0	12	12	Conductor
	Recond. 10/26/48 to 11/21/49	100'	12	230	218	Red Rock & Shells Lime Slate
	Filled up approx 150'	200'	250	290	60	Sand Muryup
	Started C.O. at approx 2305'	200'	290	530	240	Slate & Lime
	Before C.O. flow 14,900 cu ft 12 1/2 hrs	300'	530	545	15	Sand
	C.O. to stem tested 14,900	300'	545	595	50	Red Rock
	1" 39.430 cu ft - 1 hr 10 1/2	400'	595	610	15	Lime
	Reconditioned 11-20-53 to 1-8-57	400'	610	662	52	Red Rock & Shells
	Hole in 7" casing. Cavings in well. Gas decreasing. Gas gauged 11MCF 42# 24 hours. Bridged hole at 1904' bottom of Big Injun Sand.	500'	662	745	83	Sand Dunkard
		500'	745	760	15	Slate
		600'	760	762	2	Red Rock
		600'	768	790	22	Lime & Slate
		700'	790	815	25	Sand Big Dunkard
		700'	815	1135	320	Slate & Shells
		800'	1135	1166	31	1st Salt Sand
		800'	1166	1184	18	Slate
		900'	1184	1316	132	2nd Salt Sand
		900'	1316	1460	144	Slate
	12-27-56. Ran Baker open hole packer on 3-1/2" tubing. Set packer at 1840' in Big Lime. gas gauged 11MCF. 19 hour pressure 45#.	1000'	1460	1520	60	Lime
		1000'	1520	1575	55	Sand Maxon
		1000'	1575	1590	15	Slate
		1100'	1590	1640	50	Lime
		1200'	1640	1675	35	Red Rock
		1200'	1675	1715	40	Lime
	12-28-56. Loaded tubing and hole with acid. Broke down formation at 1100#. Gelled 4000 gallons of kerosene. Pumped in with 7000# of 20-40 sand at maximum pressure of 1700#. Flushed with 40 bbl oil at 1700# to 800#.	1300'	1715	1719	4	Slate
		1300'	1719	1725	6	Lime
		1400'	1725	1729	4	Slate
		1400'	1729	1732	3	Lime
		1500'	1732	1740	8	Pencil Cave
		1500'	1740	1750	10	Lime
		1600'	1750	1759	9	Pencil Cave
		1600'	1759	1822	63	Big Lime
	1-2-57. Released packer and pulled tubing. Cleaned out to 1942'	1700'	1833	1905	72	Big Injun
	Turned in line 1-8-57. Final open flow 260MCF. After fracturing drilled out bridge to 1942'	1700'	1905	2025	120	Slate
		1800'	2025	2045	20	Sand Cantz
		1800'	2045	2054	9	Slate
		1900'	2054	2170	116	Sand & Shells
		1900'	2170	2476	306	Slate & Shells
		2000'	2476	2484	8	Gordon Stray Sand
		2000'	2484	2488	4	Slate
		2100'	2488	2493	5	Gordon Sand
		2100'	2493	2539	46	Slate
		2200'	Total Depth		2539'	
		2300'	BLM -		2443'	
		2400'				
		2500'				
		2600'				
		2700'				
		2800'				
		2900'				
		3000'				
		3100'				
		3200'				
		3300'				
		3400'				





(L1178)

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Quadrangle Holbrook 1

Permit No. 2131

WELL RECORD

Oil or Gas Well Oil & Gas  
(KIND)

Company Columbian Carbon Co  
 Address Box 873, Charleston 23, W. Va.  
 Farm Lewis Maxwell Acres 2654  
 Location (waters) Arnolds Creek  
 Well No. 21-A (GW-78) Elev. 1245'  
 District West Union County Doddridge  
 The surface of tract is owned in fee by Lewis Maxwell hrs  
 Address \_\_\_\_\_  
 Mineral rights are owned by same  
 Address \_\_\_\_\_  
 Drilling commenced Sept. 26, 1918  
 Drilling completed Nov. 18, 1918  
 Date Shot 11-21-18 From Gordon To \_\_\_\_\_  
 With 20 quarts Nitroglycerine  
 Open Flow /10ths Water in \_\_\_\_\_ Inch  
 \_\_\_\_\_/10ths Merc. in \_\_\_\_\_ Inch  
 Volume 238,000 Cu. Ft.  
 Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
 Oil 3/4 bbls. \_\_\_\_\_ bbls., 1st 24 hrs.  
 Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
 Salt water 1195' feet \_\_\_\_\_ feet

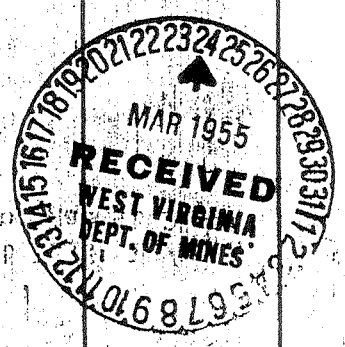
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
18"			
18"			
10"	669'	pulled	Size of
8 1/4"	1306'	pulled	no record
6 3/4"	1737'	1737'	Depth set
5 3/16"			
3"			Perf. top
2"	2526	2526'	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED	SIZE	No. Ft.	Date
COAL WAS ENCOUNTERED AT		FEET	INCHES
	FEET	INCHES	FEET
	FEET	INCHES	FEET

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Conductor			0	12			
Red Rock, Shells, Lime & Slate			12	230			
Sand			230	290			
Slate & Lime			290	530			
Sand			530	545			
Red Rock			545	590			
Lime			590	610			
Red Rock and Shells			610	662			
Sand, Dunkard			662	745			
Slate			745	760			
Red Rock			760	768			
Lime & Slate			768	790			
Sand, Big Dunkard			790	815			
Slate & Shells			815	1135			
1st Salt Sand			1135	1166			
Slate			1166	1184			
2nd Salt Sand			1184	1316			
Slate			1316	1460			
Lime			1460	1520			
Maxon Sand			1520	1575			
Slate			1575	1580			
Lime			1580	1640			
Red Rock			1640	1675			
Lime			1675	1715			
Slate			1715	1719			
Lime			1719	1725			
Slate			1725	1729			
Lime			1729	1732			
Pencil Cave			1732	1740			
Lime			1740	1750			
Pencil Cave			1750	1759			
Big Lime			1759	1822			
Big Injun Sand			1822	1905			
Slate			1905	2025			
Sand, Gantz			2025	2045			
Slate			2045	2054			
Sand & Shells			2054	2170			
Slate & Shells			2170	2476			
Gordon Stray Sand			2476	2484			

Water

1195'



(Over)

Oxford

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate			2484	2488			
Gordon Sand			2488	2493			
Slate			2493	2539			
	Total depth - - - - -			2539'	Gas at 1838'	14/10 M. 2"	582M
					Oil and gas at 2492'		

DIVISION  
 OIL AND GAS  
 Date \_\_\_\_\_, 19\_\_\_\_  
 APPROVED \_\_\_\_\_, Own  
 By \_\_\_\_\_  
 (Title)