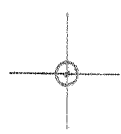


LATITUDE 39° 12' 30"

LONGITUDE 92° 52' 18"



7.5 OGIS topo location

7.5' loc 1785 15' loc _____
0.56w (calc.) _____

Company _____

Farm _____

Quad GRIFFITHSVILLE 7 1/2'

County LINCOLN

District WASHINGTON

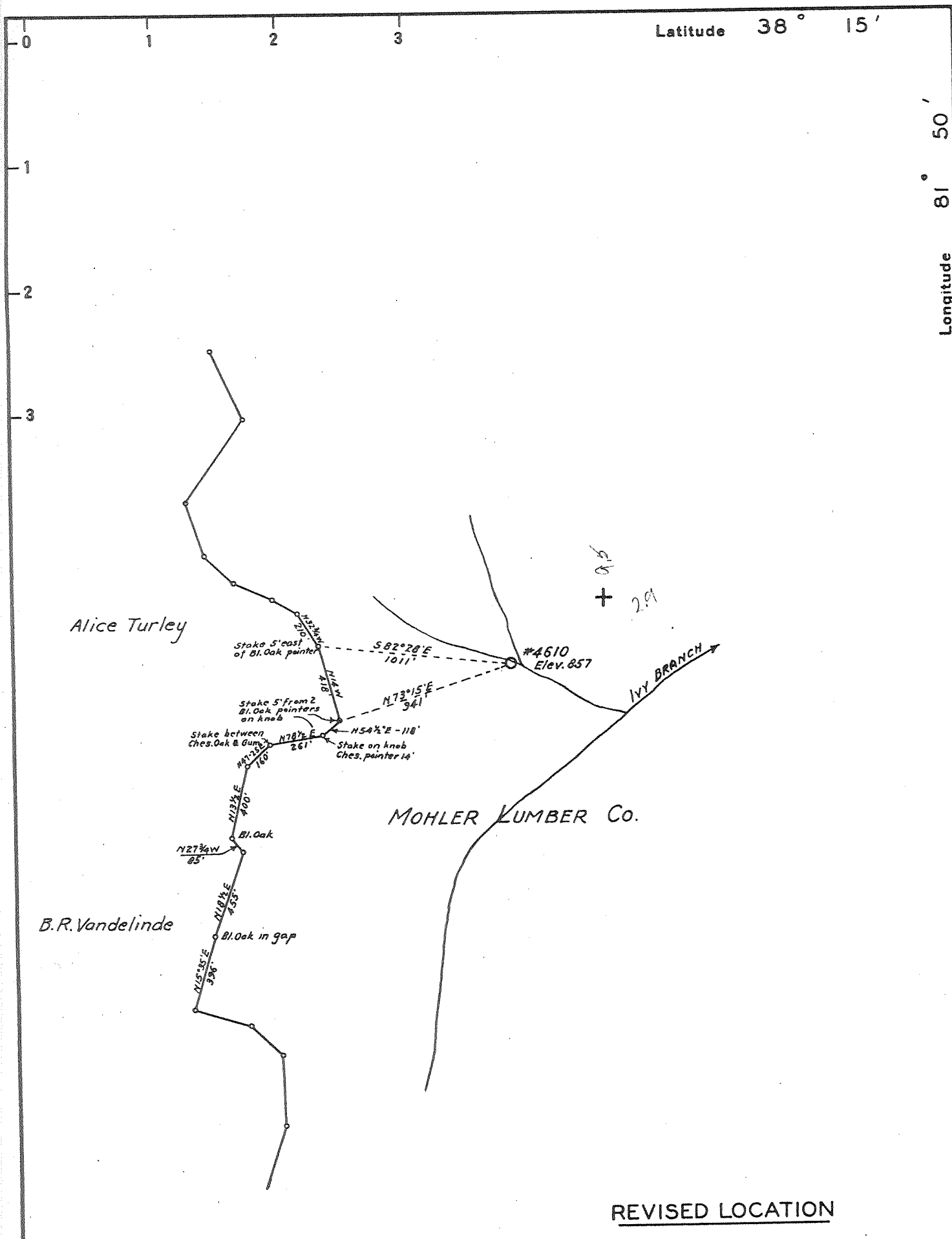
WELL LOCATION MAP

File No. 043-0164

Well

6-6

(236)



REVISED LOCATION

Company UNITED FUEL GAS CO.
 Address CHARLESTON, W.VA.
 Farm MOHLER LUMBER CO.
 Tract Acres 3576 Lease No. 8
 Well (Farm) No. 5 Serial No. 4610
 Quadrangle MADISON
 County LINCOLN
 District WASHINGTON
 Engineer *H. Cunningham*
 Engineer's Registration No. 659
 File No. 48-47 Drawing No. _____

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

WELL LOCATION MAP
 FILE NO. Lin-164

+ 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.

elev. 857'

MADISON QUAD.

NC

38° 15'

15' location

S 4.71

W 2.75

1° 50'

Mohler Lumber Company No. 4610 Well.

Washington District, Lincoln County, W. Va.

By United Fuel Gas Company.

Permit No. Lin-164.

Elevation, 857' L.

708 M. cu. ft. gas; R. P., 480 lbs.

Located 4.71 mi. S. of 38° 15' and 2.75 mi. W. of 81° 50'—NC—Madison Quadrangle.

On north side of Ivy Creek.

1.6 mi. N. E. of Woodville; 1.95 mi. N. W. of Pinnacle.

	Top.	Bottom.	Thickness.	Elevation (top)
Big Lime -----	1515	1715	200	— 658
Big Injun Sand-----	1720	1760	40	— 863
Berea Sand -----	2200	2219	19	—1343
Corniferous Lime-----	4410	4415	5+	—3553

Thickness, Devonian Shales, 2191 feet.

Total depth, 4415'.

Remarks: Completed July 29, 1936.

Shot.

Salt water, 790'. Beria gas, 2200-15'. Shale gas, 2990-3015', 3084-95', 3130-40', 3160-75', 3280-90', 3435-43', 3520-30', 4049-59', 4286-96', and 4324-39'.

On 3576 acres.

(236) Julian-Madison
DEEP WELL

WEST VIRGINIA DEPARTMENT OF MINES
OIL AND GAS DIVISION

463

WELL RECORD

Permit No. Lincoln-164

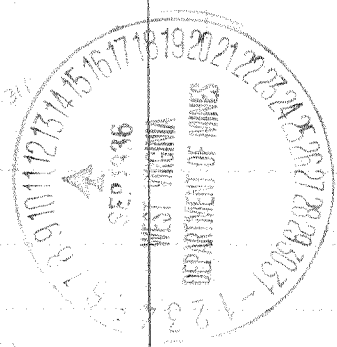
Oil or Gas Well Gas
(Kind)

Company United fuel gas company
 Address P. O. Box 1256, Charleston, W. Va.
 Farm Mohler Lumber Co. Acres 3576
 Location (waters) Coal River
 Well No. 4610 Elev. 857'
 District Washington County Lincoln
 The surface of tract is owned in fee by Mohler Lumber Co.
 Address Charleston, W. Va.
 Mineral rights are owned by Mohler Lumber Co.
 Address Charleston, W. Va.
 Drilling commenced May 6, 1936
 Drilling completed July 29, 1936
 Date shot August 14, 1936 Depth of shot.....
 Open Flow /10ths Water in.....Inch
 /10ths Merc. in.....Inch
 Volume.....708,000 Cu. Ft.
 Rock Pressure 480 lbs. (tubing) 24 hrs.
 Oil..... bbls., 1st 24 hrs.
 Fresh water.....feet.....feet
 Salt water.....790 feet.....feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16.			Kind of Packer
13.			<u>Hook Wall</u>
10.			Size of <u>3"x6-5/8"</u>
8 1/4.	<u>516'</u>	<u>516'</u>	
6 5/8.	<u>1578'</u>	<u>1578'</u>	Depth set <u>2216'</u>
5 3/16.			
3.		<u>2233'</u>	Perf. top..... <u>None</u>
2.			Perf. bottom....."
Liners Used.....			Perf. top.....
			Perf. bottom.....

CASING CEMENTED.....SIZE.....No. FT.....Date
 COAL WAS ENCOUNTERED AT 20 FEET 36 INCHES
120 FEET 48 INCHES 335 FEET 36 INCHES
495 FEET 24 INCHES.....FEET.....INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil Gas or Water	Depth Found	Remarks
Conductor			0	15			
Sand			15	20			
Coal			20	23			
Sand			23	50			
Slate			50	90			
Sand			90	120			
Coal			120	124			
Slate			124	145'			
Sand			145	280			
Slate			280	285			
Sand			285	325			
Lime			325	335			
Coal			335	338			
Slate			338	390			
Sand			390	455			
Slate & Shells			435	460			
Sand			460	480			
Slate			480	495			
Coal			495	497			
Slate & Shells			497	595			
Sand			595	640			
Slate & Shells			640	665			
Salt Sand			665	915	Water	790'	
Slate & Shells			915	935			
Sand			935	1095			
Slate			1095	1110			
Sand			1110	1165			
Slate			1165	1175			
2nd Salt Sand			1175	1340			
Slate			1340	1355			
Red Rock			1355	1360			
Slate & Shells			1360	1408			
Red Rock			1408	1412			
Slate			1412	1440			
White Lime			1440	1455			
Maxon Sand			1455	1485			
Little Lime			1485	1510			
Pencil			1510	1515			
Big Lime			1515	1715			
Red Rock			1715	1720			



516' 8 1/4" Casing

6-5/8" Casing
1538' SLM

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red Injun			1720	1760			
Slate			1760	1845			
Blue Lime			1845	1900			
Slate & Shells			1900	1930			
Slate			1930	2065			
Shell			2065	2072			
Slate & Shells			2072	2100			
Slate			2100	2121			
Shell			2121	2129			
Slate			2129	2141			SLM. 2137'
Shell			2141	2156	Gas	2200-2204	2/10 W 1" 16.9 M
Black Slate			2156	2185	Gas	2204-2210	3/10 W 2" 83 M.
Brown Shale <i>Coffee</i>			2185	2200	Gas	2210-2215	4/10 W 2" 95 M.
Berea Grit			2200	2219			
Blue Slate			2219	2238			
Line			2238	2256			SLM. 2238'
Slate & Shells			2256	2303			SLM. 2325'
Line			2303	2318			SLM 3000'
Slate & Shells			2318	2550	Some Gas	2990-3000	
Slate			2550	2850	Gas	2990-3015	10/10 W 2" 151 M
Slate & Shells			2850	3160	Gas	3084-3095	12/10 W 2" 165 M
Slate			3160	3367	Gas	3130-3140	14/10 W 2" 178 M
Brown Shale			3367	3450			
Blue Line			3450	3495	Gas	3160-3175	16/10 W 2" 190 M
Slate & Shells			3495	3505	Gas	3280-3290	19/10 W 2" 207 M
Brown Shale			3505	3525	Gas	3435-3443	22/10 W 2" 223 M
Blue Line			3525	3598	Gas	3520-3530	26/10 W 2" 243 M
Brown Shale			3598	3622	Gas	4049-4059	30/10 W 2" 260 M
Blue Line			3622	3635	Gas	4286-4296	38/10 W 2" 294 M
Brown Shale			3635	3795	Gas	4324-4339	40/10 W 2" 301 M
White Slate			3795	4156			
Brown Shale			4156	4410			
S. Lime			4410	4415			
Total Depth				4415			

Date Sept 10, 1936

APPROVED United Fuel Gas Co., Owner

By J.A. Cunningham

(Title)

Engineer