



New Location
 Drill Deeper
 Abandonment

✓ MAY 11 1954

3.6 a
 0.27 a

Company UNITED FUEL GAS CO.
 Address CHARLESTON, W.VA.
 Farm HUBBARD-RUFFNER & BROWN
 Tract _____ Acres 787 Lease No. 16988
 Well (Farm) No. 4 Serial No. 1163
 Elevation (Spirit Level) 704.0'
 Quadrangle CLAY
 County CLAY District UNION
 Engineer Leibert R Jewell
 Engineer's Registration No. 2529
 File No. 82-69 Drawing No. _____
 Date 4-27-54 Scale 1"=400'

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

WELL LOCATION MAP
 FILE NO. CLAY-78-A

+ 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.

(220)

HUBBARD, RUFFNER & BROWN NO. 4 (1163) - U, F, G, CO. - CLAY-78-A



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Oil or Gas Well Gas (KIND)

Quadrangle Clay
Permit No. Clay 78

Company UNITED FUEL GAS CO.
Address P.O. Box 173, Charleston 25, W. Va.
Farm Ruffner & Brown Acres 797
Location (waters) Elk River
Well No. 1163 Elev. 300'
District Union County Clay
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by James P. Brown, III Trustee et al, Box 28 Address Charleston, W. Va.
Drilling commenced 1-26-21
Drilling completed 3-3-21
Date Shot _____ From _____ To _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
16			Kind of Packer
13			<u>Spang Anc.</u>
10			Size of
8 1/4	<u>320'</u>	<u>1307'</u>	<u>3x5-3/16x18</u>
6 3/16		<u>1499'</u>	Depth set
3			<u>1377</u>
2			Perf. top
Liners Used			Perf. bottom
			Perf. top
			Perf. bottom

With _____
Open Flow _____ /10ths Water in _____ Inch
4 /10ths Merc. in 3 Inch
Volume 790,000 Cu. Ft.
Rock Pressure 395 lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
COAL WAS ENCOUNTERED AT 35 FEET 36 INCHES
135 FEET 84 INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Clay				12			
Sand			12	35			
Coal			35	38			
Slate			38	50			
Sand			50	90			
Slate			90	135			
Coal			135	142			
Slate			142	160			
Sand			160	290			
Slate			290	320			
Sand			320	360			
Slate			360	400			
Sand			400	430			
Slate			430	450			
Sand			450	480			
Slate			480	500			
Lime			500	535			
Slate			535	550			
Sand			550	655			
Slate			655	675			
Salt Sand			675	1070			
Slate			1070	1105			
Red Rock			1105	1120			
Lime			1120	1130			
Red Rock			1130	1140			
Slate			1140	1155			
Red Rock			1155	1165			
Slate			1165	1170			
Maxon Sand			1170	1215			
Slate			1215	1224			
Little Lime			1224	1264			
Slate			1264	1269			
Lime Shell			1269	1282			
Pencil Cave			1282	1287			
Big Lime			1287	1380			
Keener Sand			1380	1412			
Slate			1412	1417			
Injun Sand			1417	1464			
Slate			1464	1488			
Total depth			1488'				(Over)

