

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

Iron T-Rail on hillside in head of small Branch of Mullers Creek. 15" Lynn and small Lynn pointers.

Company UNITED FUEL GAS CO.
 Address CHARLESTON, W. VA.
 Farm COTIGA DEVELOPMENT CO.
 Tract _____ Acres 18,580⁵² Lease No. 50052
 Well (Farm) No. 8 Serial No. 8188
 Elevation (Spirit Level) 1111.72'
 Quadrangle WILLIAMSON
 County MINGO District HARDEE
 Engineer Paul J. Joachim
 Engineer's Registration No. 669
 File No. 24-17 Drawing No. _____
 Date 3-23-56 Scale 1" = 800'

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

WELL LOCATION MAP
 FILE NO. MIN-473

+ 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.

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 8

Quadrangle Williamson

WELL RECORD

Permit No. MIN-473

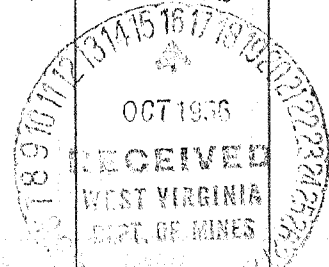
Oil or Gas Well Gas

Company United Fuel Gas Co.
Address P. O. Box 1273; Charleston 25, W. Va.
Farm Cotiga Development Co. #8 Acres 18,580.52
Location (waters) Miller Creek
Well No. 8188 Elev. 1111.72
District Hardee County Mingo
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Cotiga Development Co. #8, 75%
123 South Broad St. Address Philadelphia, Penna.
Drilling commenced May 24, 1956
Drilling completed August 22, 1956
Acidized
Date Shot 8-30-56 From _____ To _____
With 2000 gallons acid
Open Flow 10ths Water in 2 Inch _____
/10ths Merc. in Big Lime 133,000 Inch _____
Volume 157,000 Br. Shale 24,000 Cu. Ft.
Rock Pressure 495 cas. lbs. 48 hrs.
460 tub. lbs. 48 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water 1375 feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			Hook Wall
13 3/8		16'	Size of
10 3/4		770	3 1/2" x 7" x 16"
8 1/2		2009	Depth set
5 3/16		2209	2195'
3 1/2			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
COAL WAS ENCOUNTERED AT 303 FEET 36 INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Soil			0	10	Hole full water	1375'	
Slate			10	90			
Sand			90	235	Hole reduced from 10" to 8" at	1556'	
Slate			235	303			
Coal			303	306	Show gas	2150-2160'	
Slate			306	380			
Sand			380	430	Test before shot 8/10 W 1" 30 M		
Slate			430	530	Shot 8-23-56 with 6700# Gelatin from		
Sand			530	580	2787-3765'		
Slate			580	610	Test 1 hour after shot 6/10 W 2" 103 M		
Sand			610	635	Test 16 hours after shot 32/10 W 1" 60M		
Slate			635	673			
Sand			673	692	Test before acidized 10/10 W 1" 33 M		
Slate			692	735	Acidized 8-30-56 with 2000 gallons		
Sand			735	773	acid		
Slate			773	808	Test 11 days after acidized & cleaning		
Sand			808	836	out		
Slate			836	916	5/10 W 1" 24 M - Shale		
Sand			916	935	10/10 W 2" 133 M - Big Lime		
Slate			935	987			
Salt Sand			987	1286			Big Lime - 133 M
Slate			1286	1335	FINAL OPEN FLOW - 157-		Br. Shale - 24 M
Salt Sand			1335	1530	48 Hr. R. P. 495# Casing		
Slate & Shells			1530	1575	48 Hr. R. P. 460# Tubing		
Sand			1575	1598			
Slate			1598	1680			
Red Rock			1680	1690	Shut in 9-10-56 in 3 1/2" tubing		
Slate			1690	1752			
Maxon Sand			1752	1827			
Slate			1827	1847			
Sand			1847	1866			
Slate			1866	1913			
Sand			1913	1929			
Slate			1929	1942			
Little Lime			1942	1982			



Description	Color	Hard or Soft	Top δ	Bottom	Oil, Gas or Water	Depth Found	Remarks
Big Lime			1982	2185			
Injun Sand			2185	2215			
Slate & Shells			2215	2368			
Weir Shells			2368	2430			
Slate & Shells			2430	2730			
Coffee Shale			2730	2760			
Berea Grit			2760	2830			
Brown Shale			2830	2895			
Grey Shale			2895	3460			
Brown Shale			3460	3755			
White Slate			3755	3765			
Total Depth			3765'				

Date October 12, 19 56APPROVED UNITED FUEL GAS COMPANY, OwnerBy S. R. Fennell
(Title)