

DEGREE OF ACCURACY  
One part in 200.

Fracture	<input type="checkbox"/>
Before 6/5/27	<input type="checkbox"/>
New Location	<input checked="" type="checkbox"/>
Drill Deeper	<input type="checkbox"/>
Re-drill	<input type="checkbox"/>
Abandonment	<input checked="" type="checkbox"/>

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by Paragraph 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.  
The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.  
PROVEN ELEVATION 1069.86'

Company UNITED FUEL GAS CO.  
 Address CHARLESTON W. VA.  
U.F.G. MIN. TR. #17  
 Tract \_\_\_\_\_ Area 1724.29 Lease No. REF 44774  
 Well (Farm) No. \_\_\_\_\_ Serial No. 9430  
 Elevation (Spirit Level) 1069.86'  
 Quadrangle NAUGATUCK NC  
 County WAYNE District LINCOLN  
 Engineer D. L. Spinks  
 Engineer's Registration No. 2712  
 File No. EP-79 Drawing No. \_\_\_\_\_  
 Date JAN 24 1967 Scale 1" = 400'

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

WELL LOCATION MAP  
 FILE NO. WAY-1532-P

+ 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.

JAN 22 1968

Deep Well (coniferous)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 7

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle **Haugatuck**  
Permit No. **WAY-1532**

**WELL RECORD**

Oil or Gas Well  (KIND)

Company **United Fuel Gas Company**  
Address **P.O. Box 1273 Charleston, W. Va. 25325**  
Farm **United Fuel Gas Co. Min. Tr. #17 Acres 1.724.48**  
Location (waters) **Old Fork of Jennies Creek**  
Well No. **9430** Elev. **1069.86'**  
District **Lincoln** County **Wayne**  
The surface of tract is owned in fee by **United Fuel Gas Co.**  
Address \_\_\_\_\_  
Mineral rights are owned by \_\_\_\_\_  
Address \_\_\_\_\_  
Drilling commenced **May 29, 1967**  
Drilling completed **July 16, 1967**  
Date Shot From \_\_\_\_\_ To \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer.....
16			Size of.....
13			Depth set.....
10			Perf. top.....
8 1/4			Perf. bottom.....
6 3/4			Perf. top.....
5 3/16			Perf. bottom.....
4 1/2			
3			
2			
Liners Used			

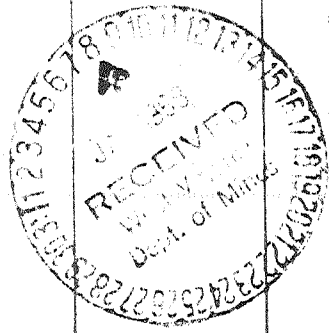
Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
Volume \_\_\_\_\_ Cu. Ft.  
Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
Dil. \_\_\_\_\_ bbls. 1st 24 hrs.

Attach copy of cementing record.  
CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
Amount of cement used (bags) \_\_\_\_\_  
Name of Service Co. \_\_\_\_\_  
COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

WELL ACIDIZED (DETAILS) \_\_\_\_\_  
WELL FRACTURED (DETAILS) \_\_\_\_\_

RESULT AFTER TREATMENT (Initial open flow in bbls)  
ROCK PRESSURE AFTER TREATMENT \_\_\_\_\_ HOURS  
Fresh Water **120'** Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand \_\_\_\_\_ Depth \_\_\_\_\_

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			0	20			
Sand			20	160			Hole full of water at 120'
Black Lime			160	180			
Sand			180	322			Crevice - Lost Water at 360'
Black Slate			322	330			
Slate & Shells			330	350			Run 8-5/8" Casing 343'
Sand			350	485			
Slate & Shells			485	510			Gas pay at 1420' 20/10 W - 2"
Sand			510	542			Show of Oil at 1440' - 1445'
Slate & Shells			542	672			7" Casing point 1505'
Sand			672	716			Show of Gas at 1645'
Slate & Shells			716	864			
Lime			864	900			
Salt Sand			900	1034			
Slate & Shells			1034	1090			
Salt Sand			1090	1150			
Slate & Shells			1150	1260			
Red Rock			1260	1265			
Slate & Shells			1265	1300			
Red Rock			1300	1306			
Lime Shells			1306	1340			
Slate			1340	1350			
Lime			1350	1360			
Slate & Shells			1360	1391			
Maron Sand			1391	1444			
Little Lime			1444	1466			
Big Lime			1466	1675			
Keener Sand			1675	1685			
Injun Sand			1685	1710			



Formation	Color	Hard or Soft	Top 7	Bottom	Oil, Gas or Water	Depth Found	Remarks
Squaw Sand			1710	1730			
Slate & Shells			1730	2045			
Wair Shells			2045	2072			
Slate & Shells			2072	2200			
Coffee Shale			2200	2235			
Berea Sand			2235	2315			
Slate			2315	2325			
Brown Shale			2325	2390			
Gray Shale			2390	2560			
Lime			2560	2600			
Gray Shale			2600	2720			
Brown Shale			2720	2815			
Gray Shale			2815	2890			
Brown Shale			2890	3200			
White Slate			3200	3390			
Brown Shale			3390	3538			
Coniferous Lime		Onondaga	3538	3540			
Total Depth			3540'				561' ofavings in hole after shot.

(461)

3538  
1070  
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2468

Date January 5, 19 68

APPROVED UNITED FUEL GAS COMPANY, Owner

By D. J. Spinks  
(Title) BY D. K. S.

Supt., Civil Engineering Dept.