



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 CHARLESTON

February 21, 1961

C
O
P
Y

United Fuel Gas Company
 P. O. Box 1273
 Charleston, West Virginia

Att: Mr. Bernard Noon

Dear Sirs:

Please send us two copies of the completion drilling record for the following wells.

| <u>Permit No.</u> | <u>Farm</u> | <u>Well No.</u> | <u>District</u> |
|-------------------|-------------------|-----------------|-----------------|
| B00-916 | E. J. Berwind | 8997-T | Crook |
| LIN-1316 | U. F. G. Min. #31 | 8721 | Harts Creek |
| LIN-1327 | U. F. G. Min. #28 | 8982 | Carroll |
| WAY-1314 | Eli Crum | 8766 | Lincoln |
| WAY-1315 | U. F. G. Min. #1 | 8980 | Grant |

We will appreciate the information as soon as possible in order to prepare statistics for the 1960 Annual Report.

Very truly yours,

CRAWFORD L. WILSON, DIRECTOR
 Department of Mines

Assistant Director
 OIL AND GAS DIVISION

MG/b

cc: Mr. Paul Hinchman, Inspector

08/25/2023



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 CHARLESTON

February 21, 1931

COPY

United Fuel Gas Company
 P. O. Box 1277
 Charleston, West Virginia

Attn: Mr. Bernard Poon

Dear Sir:

Please send us our copies of the completion drilling records for the following wells:

| Well No. | Owner | Location | County |
|----------|---------------|----------------|---------|
| WV-1215 | U. F. O. Mine | W. 1/4 Sec. 31 | Lincoln |
| WV-1214 | U. F. O. Mine | W. 1/4 Sec. 31 | Lincoln |
| WV-1213 | U. F. O. Mine | W. 1/4 Sec. 31 | Lincoln |
| WV-1212 | U. F. O. Mine | W. 1/4 Sec. 31 | Lincoln |
| WV-1211 | U. F. O. Mine | W. 1/4 Sec. 31 | Lincoln |
| WV-1210 | U. F. O. Mine | W. 1/4 Sec. 31 | Lincoln |
| WV-1209 | U. F. O. Mine | W. 1/4 Sec. 31 | Lincoln |
| WV-1208 | U. F. O. Mine | W. 1/4 Sec. 31 | Lincoln |
| WV-1207 | U. F. O. Mine | W. 1/4 Sec. 31 | Lincoln |
| WV-1206 | U. F. O. Mine | W. 1/4 Sec. 31 | Lincoln |
| WV-1205 | U. F. O. Mine | W. 1/4 Sec. 31 | Lincoln |
| WV-1204 | U. F. O. Mine | W. 1/4 Sec. 31 | Lincoln |
| WV-1203 | U. F. O. Mine | W. 1/4 Sec. 31 | Lincoln |
| WV-1202 | U. F. O. Mine | W. 1/4 Sec. 31 | Lincoln |
| WV-1201 | U. F. O. Mine | W. 1/4 Sec. 31 | Lincoln |

We will appreciate the information as soon as possible in order to prepare statistics for the 1930 annual report.

Very truly yours,

CHARLES L. WILSON, DIRECTOR
 Department of Mines

ALL AND GAS DIVISION
 ASSISTANT DIRECTOR

WV

cc: Mr. Paul Hinchman, Inspector

| Formation | Color | Hard or Soft | Top 16 | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|-------------|-------|--------------|--------|--------|-------------------|-------------|---------|
| Slate | | | 1405 | 1790 | | | |
| Shale | | | 1790 | 1823 | | | |
| Berea Sand | | | 1823 | 1863 | | | |
| Slate | | | 1863 | 1865 | | | |
| Lime Shell | | | 1865 | 1915 | | | |
| White Slate | | | 1915 | 1930 | | | |
| Brown Shale | | | 1930 | 2015 | | | |
| White Slate | | | 2015 | 2210 | | | |
| Brown Shale | | | 2210 | 2348 | | | |
| White Slate | | | 2348 | 2420 | | | |
| Brown Shale | | | 2420 | 2727 | | | |
| White Slate | | | 2727 | 2747 | | | |
| Total Depth | | | 2747' | | | | |

08/25/2023

Date February 20, 19 61

APPROVED UNITED FUEL GAS COMPANY, Owner

By S.R. Jewell
Supt., Civil Engineering Dept.





STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 16

Quadrangle Naugatuck

Permit No. WAY-1314

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company United Fuel Gas Company
Address P. O. Box 1273; Charleston 25, W. Va.
Farm Eli Crum Acres 235

Location (waters) Drag Creek
Well No. 8766 Elev. 660.79
District Lincoln County Wayne

The surface of tract is owned in fee by _____
Address _____

Mineral rights are owned by Martha Crum Varney, et al
Address Crum, W. Va.

Drilling commenced 9-14-60
Drilling completed 11-17-60
Date Shot 11-18-60 From 1930 To 2747
With 8300# Independent Gelatin

Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch

Volume 158,000 - Berea 113 M; Shale 45 M Cu. Ft.

Rock Pressure 255 lbs. 48 hrs.

Oil _____ bbls., 1st 24 hrs.

WELL ACIDIZED _____

WELL FRACTURED _____

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-------------------|------------------|--------------|-------------------|
| Size | | | Kind of Packer |
| 16 | | | Hookwall |
| 13 3/8 | | 37' | |
| 10 3/4 | | 239 | Size of |
| 8 1/2 5/8 | 778' | Pulled | 3 1/2" x 7" x 16" |
| 6 5/8 7" | 1123' | Pulled | Depth set |
| 5 3/16 | | | 1903' |
| 3 1/2 | | 2471' | Perf. top |
| 2 | | | Perf. bottom |
| Liners Used | | | Perf. top |
| | | | Perf. bottom |

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT 90 FEET 36 INCHES
_____ FEET _____ INCHES
_____ FEET _____ INCHES

RESULT AFTER TREATMENT _____

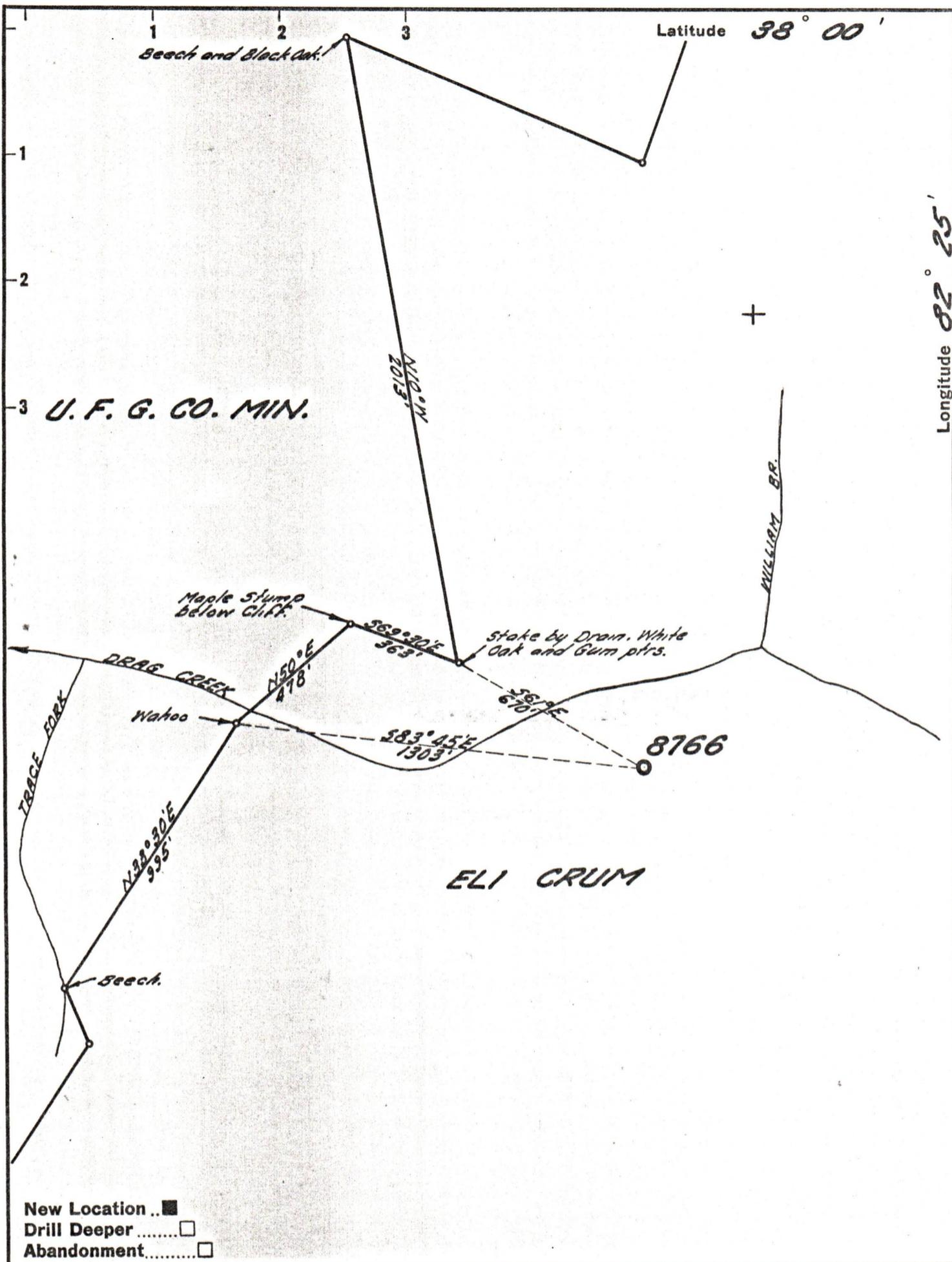
ROCK PRESSURE AFTER TREATMENT _____

Fresh Water 90 Feet Salt Water 545 Feet

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth | Remarks |
|------------------|-------|--------------|------|--------|---|-------|-------------|
| Surface | | | 0 | 35 | | | |
| Sand q | | | 35 | 60 | Water 90' 1 bailer per hour | | |
| Slate | | | 60 | 90 | | | |
| Coal | | | 90 | 93 | Hole full water 545' | | |
| Slate | | | 93 | 145 | | | |
| Sand | | | 145 | 180 | Gas 1825' 2/10 W 1" 15 M | | |
| Slate | | | 180 | 215 | | | |
| Sand | | | 215 | 235 | Test before shot - not enough to gauge | | |
| Slate | | | 235 | 355 | Shot 11-18-60 with 8300# Independent | | |
| Lime Shell | | | 355 | 375 | Gelatin from 1930-2747' | | |
| Slate | | | 375 | 400 | Test 1 hour after shot 64/10 W 2" 337 M | | |
| Sand | | | 400 | 435 | Test 18 hrs. after shot 44/10 W 1" 70 M | | |
| Slate | | | 435 | 521 | | | |
| Salt Sand | | | 521 | 746 | Test before fracture - show | | |
| Slate | | | 746 | 766 | Fracture 12-2-60 with 15,000 gallons | | |
| Lime Shells | | | 766 | 776 | water and 25,000# Sand | | |
| Salt Sand | | | 776 | 850 | Test after fracture 115/10 W 1" 113 M | | |
| Black Slate | | | 850 | 935 | | | |
| Red Rock | | | 935 | 975 | | | Berea 113 M |
| Slate | | | 975 | 1030 | FINAL OPEN FLOW - 158 M - Shale 45 M | | |
| Red Rock | | | 1030 | 1040 | 48 Hr. R.P. 255# | | |
| Maxon Sand | | | 1040 | 1075 | | | |
| Little Lime | | | 1075 | 1091 | Shut in 12-14-60 in 3 1/2" tubing. | | |
| Pencil Cave | | | 1091 | 1093 | | | |
| Big Lime | | | 1093 | 1271 | LOGS RUN: | | |
| Keener Sand | | | 1271 | 1291 | Gamma Ray | | |
| Black Lime Shell | | | 1291 | 1310 | G.G. Density | | |
| Injun Sand | | | 1310 | 1350 | Induction | | |
| Slate | | | 1350 | 1392 | Temperature | | |
| Shell | | | 1392 | 1405 | | | |

(over)





New Location ..
 Drill Deeper
 Abandonment

Company UNITED FUEL GAS CO.
 Address CHARLESTON, W.VA.
 Farm ELI CRUM
 Tract _____ Acres 235 Lease No. 44631
 Well (Farm) No. 1 Serial No. 8766
 Elevation (Spirit Level) 660.79'
 Quadrangle NAUGATUCK
 County WAYNE District LINCOLN
 Engineer Hubert R. Ferrell
 Engineer's Registration No. 2529
 File No. 16-31 Drawing No. _____
 Date 6-14-60 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. WAY-13 08/25/2023

+ 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.