

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

1,59 W
 2,32 S
 B.C (4-2)

Company UNITED FUEL GAS CO.
 Address CHARLESTON W.VA.
 Farm NIGHBERT LAND CO.
 Tract _____ Acres 3025 Lease No. 24681
 Well (Farm) No. 3 Serial No. 8102
 Elevation (Spirit Level) 761.74'
 Quadrangle NAUGATUCK-56
 County MINGO District HARDEE
 Engineer Seibert K. Ferrell
 Engineer's Registration No. 2529
 File No. 22-21 Drawing No. _____
 Date 5-6-53 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. MIN-365

+ 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.

6-6-243 Deep Well



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Permit No. MIN-365

Oil or Gas Well Gas

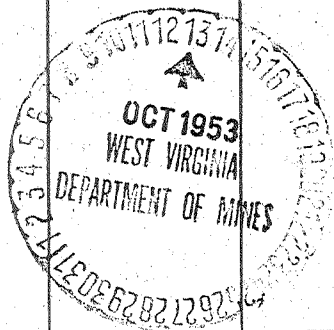
Company UNITED FUEL GAS COMPANY
Address P.O. Box 1273, Charleston 25, W. Va.
Farm Nighbert Land Co. #3 Acres 3025
Location (waters) Carter Br.
Well No. 8102 Elev. 761.74
District Hardee County Mingo
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Nighbert Land Co.
Box 1240 Address Huntington, W. Va.
Drilling commenced 6-12-53
Drilling completed 7-26-53
Date Shot 7-15-53 From 1737 To 1758
With 250# Detonite
Open Flow 2 /10ths Water in 2 Inch
_____/10ths Merc. in _____ Inch
Volume 2,559,000 Cu. Ft.
Rock Pressure 398 lbs. 48 hrs.
400 lbs. 48 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 380 feet
Salt water _____ feet

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|---------------------|------------------|--------------|--------------------|
| Size | | | Kind of Packer |
| 16 | | | Hook Wall |
| 13 | | | Size of _____ |
| 10 | | | 3"x7"x16" |
| 8 1/4 | | 325' | Depth set |
| 7 1/2 7" | | 1569' | 1785' |
| 5 3/16 | | | Perf. top _____ |
| 3 | | 1702' | Perf. bottom _____ |
| 2 | | | Perf. top _____ |
| Liners Used | | | Perf. bottom _____ |

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

COAL WAS ENCOUNTERED AT 50 FEET 24 INCHES
158 FEET 36 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 | 380' | |
| Sand | | | 10 | 50 | | | |
| Coal | | | 50 | 52 | Gas show | 1500-1505' | |
| Slate | | | 52 | 72 | | | |
| Sand | | | 72 | 95 | Gas | 1750-1755' 8/10 W 2" 119 M | |
| Slate | | | 95 | 115 | | | |
| Sand | | | 115 | 130 | Gas | 2430' 3/10 W 2" 73 M | |
| Slate | | | 130 | 158 | Gas | 2610' 16/10 W 2" 169 M | |
| Coal | | | 158 | 161 | Gas | 2645' 8/10 W 2" 179 M | |
| Slate | | | 161 | 265 | Gas | 2658' 30/10 W 7" 2,402, M | |
| Sand | | | 265 | 325 | Gas | 2658-2662' 5 1/10 Merc. 3" 2,499 M | |
| Slate | | | 325 | 375 | | | |
| Sand | | | 375 | 390 | Test before shot | 18/10 W 1" 45 M | |
| Slate | | | 390 | 840 | Shot | 7-15-53 with 250# Detonite from | |
| Salt Sand | | | 840 | 1017 | | 1737-1758' | |
| Slate & Shells | | | 1017 | 1125 | Test after shot | 2/10 W 2" 60 M | |
| Salt Sand | | | 1125 | 1220 | | | |
| Slate & Shells | | | 1220 | 1254 | | | Injun - 60 M |
| Red Rock | | | 1254 | 1259 | FINAL OPEN FLOW | -2,559 M - Shale -2,499M | |
| Slate & Shells | | | 1259 | 1268 | 48 Hr. R.P. | 398# Casing | |
| Red Rock | | | 1268 | 1272 | 48 Hr. R.P. | 400# Tubing | |
| Slate | | | 1272 | 1385 | | | |
| Maxon Sand | | | 1385 | 1441 | | | |
| Slate & Shells | | | 1441 | 1495 | | | |
| Sand | | | 1495 | 1505 | Shut in | 7-26-53 in 3" Tubing. | |
| Slate | | | 1505 | 1525 | | | |
| Little Lime | | | 1525 | 1559 | | | |
| Pencil Cave | | | 1559 | 1562 | | | |
| Big Lime | | | 1562 | 1720 | | | |
| Keener Sand | | | 1720 | 1735 | | | |
| Injun Sand | | | 1735 | 1755 | | | |
| Slate & Shells | | | 1755 | 2235 | | | |
| Coffee Shale | | | 2235 | 2266 | | | |
| Berea Sand | | | 2266 | 2360 | | | |
| Brown Shale | | | 2360 | 2432 | | | |
| Grey Shale | | | 2432 | 2662 | | | |
| Total depth | | | 2662' | | | | |





STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Naugatuck

WELL RECORD

Permit No. Min-365-D

DRILLED DEEPER

Oil or Gas Well Gas
(KIND)

Company United Fuel Gas Co.
Address P. O. Box 1273; Charleston 25, W. Va.
Farm Nighbert Land Co. #3 Acres 3025
Location (waters) Carter Branch
Well No. 8102 Elev. 761.74
District Hardee County Mingo
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Nighbert Land Co.
Box 1240 Address Huntington, W. Va.
Drilling commenced 1-9-57
Drilling completed 1-20-57
Date Shot 1-23-57 From 2426 To 3591
With 8,800# Gelatin
Open Flow 18/10ths Water in 2 Inch
/10ths Merc. in _____ Inch
Volume 179,000 Cu. Ft.
Rock Pressure 220 lbs. 48 hrs.
112 lbs. 48 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-------------------|------------------|--------------|--------------------|
| Size | | | |
| 16 | | | Kind of Packer |
| 18 | | | <u>Hook Wall</u> |
| 10 | | | Size of |
| 8 1/4 | | | <u>3 1/2" x 7"</u> |
| 6 1/2 | | | Depth set |
| 5 3/16 | | | <u>2305'</u> |
| 3 | | <u>3475'</u> | Perf. top |
| 2 | | | Perf. bottom |
| Liners Used | | | Perf. top |
| | | | Perf. bottom |

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

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|----------------------|-------|--------------|-------|--------|---|----------------|------------|
| Original Total Depth | | | 2662' | | Test when drilling commenced | | 22/10 W 2" |
| Gray Shale | | | 2662 | 2935 | 198 M | | |
| Brown Shale | | | 2935 | 3225 | | | |
| White Slate | | | 3225 | 3465 | Test 3236' | 8/10 W 2" | 119 M |
| Brown Shale | | | 3465 | 3588 | | | |
| Corniferous | | | 3588 | 3591 | Test before drilling deeper | 8/10 W 2" | 119 M |
| Total Depth | | | 3591' | | Test before shot | 8/10 W 2" | 119 M |
| | | | | | Shot 1-23-57 with 8,800# Gelatin from | | 2426-3591' |
| | | | | | Test 1 hour after shot | 11/10 Merc. 2" | 516 M |
| | | | | | Test 14 hours after shot | 14/10 W 2" | 158 M |
| | | | | | Test 72 Hours after shot & cleaning out | 18/10 W 2" | 179 M |
| | | | | | FINAL OPEN FLOW - 179 M - Br. Shale | | |
| | | | | | 48 Hr. R. P. 220# casing | | |
| | | | | | 48 Hr. R. P. 112# tubing | | |
| | | | | | Shut in 1-28-57 in 3 1/2" tubing. | | |
| | | | | | Permit - Mingo - 365 D | | |



3588
762
-2826