

|                             |                         |
|-----------------------------|-------------------------|
| Company                     | UNITED FUEL GAS CO      |
| Address                     | CHARLESTON, W. VA.      |
| Farm                        | O.A. & J.E. CARPENTER   |
| Tract                       | Acres 78 Lease No. 7384 |
| Well (Farm) No.             | Serial No. 442          |
| Elevation (Spirit Level)    | 9370                    |
| Quadrangle                  | CLENDENIN               |
| County                      | KANAWHA District ELK    |
| Engineer                    | Paul E. Joachim         |
| Engineer's Registration No. | 669                     |
| File No.                    | 72-61 Drawing No.       |
| Date                        | 12-28-54 Scale 1"=400'  |

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

**WELL LOCATION MAP**  
FILE NO. KAN-1162-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.

6-0.216



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

18993

Quadrangle Clendenin  
Permit No. 1162-A

WELL RECORD

Oil or Gas Well Gas  
(KIND)

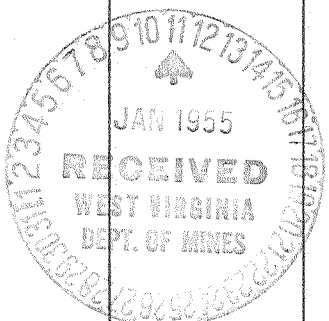
Company UNITED FUEL GAS CO.  
Address P.O. Box 1273, Charleston 25, W. Va.  
Farm O. A. & J. E. Carpenter Acres 78  
Location (waters) Elk Lick Creek  
Well No. 442 Elev. 937'  
District Elk County Kanawha  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by R. C. Andrews, et al  
2410 Kanawha Blvd.-East Address Charleston, W. Va.  
Drilling commenced 11-11-12  
Drilling completed 1-7-13  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow 6 /10ths Water in \_\_\_\_\_ Inch  
6-5/8 /10ths Merc. in \_\_\_\_\_ Inch  
Volume 3,487,000 Cu. Ft.  
Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
Salt water 885' feet \_\_\_\_\_ feet

| Casing and Tubing | Used in Drilling | Left in Well | Packers            |
|-------------------|------------------|--------------|--------------------|
| Size              |                  |              | Kind of Packer     |
| 16                |                  |              | <u>Anchor</u>      |
| 13                |                  | <u>16'</u>   | Size of            |
| 10                |                  |              | <u>3x5-3/16</u>    |
| 8 1/4             | <u>511'</u>      |              | Depth set          |
| 6 3/8             |                  | <u>1540'</u> | <u>1612'</u>       |
| 5 3/16            |                  | <u>1614'</u> | Perf. top _____    |
| 3                 |                  | <u>1940'</u> | Perf. bottom _____ |
| 2                 |                  |              | Perf. top _____    |
| Liners Used       |                  |              | Perf. bottom _____ |

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_

COAL WAS ENCOUNTERED AT 65 FEET 60 INCHES  
202 FEET 60 INCHES FEET INCHES  
FEET INCHES FEET INCHES

| Formation      | Color | Hard or Soft | Top      | Bottom | Oil, Gas or Water | Depth Found | Remarks   |
|----------------|-------|--------------|----------|--------|-------------------|-------------|---|
| Coal           |       |              | 65       | 70     |                   |             |   |
| Coal           |       |              | 202      | 207    |                   |             |   |
| Salt Sand      |       |              | 710      | 1172   | Water 885'        |             |   |
| Red Rock       |       |              | 1172     | 1210   |                   |             |   |
| Sand           |       |              | 1210     | 1280   |                   |             |   |
| Red Rock       |       |              | 1290     | 1340   |                   |             |   |
| Red Rock       |       |              | 1360     | 1380   |                   |             |   |
| Little Lime    |       |              | 1472     | 1476   |                   |             |   |
| Pencil Cave    |       |              | 1476     | 1479   |                   |             |   |
| Lime           |       |              | 1479     | 1520   |                   |             |   |
| Red Rock       |       |              | 1520     | 1530   |                   |             |   |
| Big Lime       |       |              | 1530     | 1630   | Gas 1551'         |             |   |
| Big Injun      |       |              | 1630     | 1646   |                   |             |   |
| Red Rock       |       |              | 1646     | 1693   |                   |             |   |
| Weir Sand      |       |              | 1693     | 1889   | Gas 1880-1883'    |             |   |
| Slate & Shells |       |              | 1889     | 1933   |                   |             |   |
| Total depth    |       |              | 1933 1/2 |        |                   |             | Well repaired May 1931 used 5-3/16x 6-5/8 Hook Wall packer set 1595'. |



JUN 17 1955

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|-----------|-------|--------------|-----|--------|-------------------|-------------|---------|
|           |       |              |     |        |                   |             |         |
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|           |       |              |     |        |                   |             |         |
|           |       |              |     |        |                   |             |         |

Date January 10, 1955

APPROVED UNITED FUEL GAS CO., Owner

By S.R. Ferrell  
 (Title)  
 Mgr. Civil Engr. Dept.