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|-----------------------------|--|
| Company | United Fuel Gas Co. |
| Address | Charleston, W.Va. |
| Farm | C.C. Fisher et al. |
| Tract | Acres 84 Lease No. 41029 |
| Well (Farm) No. | 1 Serial No. 4757 |
| Elevation (Spirit Level) | |
| Quadrangle | Kenna 50 |
| County | Kanawha District Poca |
| Engineer | G.A. Cunningham |
| Engineer's Registration No. | 659 |
| File No. | 60-71 Drawing No. |
| Date | June 28, 1937 Scale 1"=660' |

STATE OF WEST VIRGINIA
 Department of Mines
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 File No. KAN-411

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.

WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION

WELL RECORD

Permit No. Kan-411

Gas Well

Kenna Quad.

CASING & TUBING

| | | | | |
|-------------|---|----------------|---------------------------|------|
| Company | United Fuel Gas Co. | 13 | 31 | 31 |
| Address | Charleston, W.Va. | 10 | 1085 | 1085 |
| Farm | C.C.Fisher, et al | Acres 84 | 8 $\frac{1}{4}$ | 1679 |
| Location | Pocatalico River | 7" O.D. | 4657 | 4657 |
| Well No. | 4757 | Elev. 621.13 | | |
| District | Poca | County Kanawha | | |
| Surface | C.C.Fisher, et al, Sissonville, W.Va. Shut in 7" O.D. | | | |
| Mineral | Same | | | |
| Drilling | Commenced | July 22, 1937 | Casing cemented: 7" O.D., | |
| | Completed | Nov. 8, 1937 | 4660'. | |
| Date Shot | Not shot | | 3 5/8" | |
| Volume | 11,159,000 Cu.Ft. | | casing run on a Shoe & | |
| Rock Press. | 1875# | 48 hrs. | cemented at 1678'. | |

| Formation | Color | Hor | TOP | Base | Result | Formation | Color | Hor | TOP | Base | Result |
|----------------|-------|-----|------|------|--------|------------------|-------|-----|------|------|--------|
| Surface | | | 0 | 30 | | Corniferous Lime | | | 4637 | 4740 | |
| Sand | | | 30 | 60 | | Oriskany Sand | | | 4740 | 4763 | Gas |
| Red Rock | | | 60 | 80 | | TOTAL DEPTH | | | 4763 | | 4747- |
| Slate | | | 80 | 110 | | | | | | | 4750 |
| Red Rock | | | 110 | 140 | | | | | | | |
| Slate | | | 140 | 175 | | | | | | | Gas |
| Lime | | | 175 | 200 | | | | | | | 4750- |
| Sand | | | 200 | 240 | | | | | | | 4756 |
| Red Rock | | | 240 | 250 | | | | | | | |
| Slate | | | 250 | 270 | | | | | | | Gas |
| Sand | | | 270 | 305 | | | | | | | 4758 |
| Slate | | | 305 | 350 | | | | | | | |
| Sand | | | 350 | 395 | | | | | | | |
| Slate | | | 395 | 415 | | | | | | | |
| Sand | | | 415 | 490 | | | | | | | |
| Slate & Shells | | | 490 | 550 | | | | | | | |
| Sand | | | 550 | 590 | | | | | | | |
| Slate | | | 590 | 610 | | | | | | | |
| Sand | | | 610 | 650 | | | | | | | |
| Slate&Shells | | | 650 | 810 | | | | | | | |
| Sand | | | 810 | 830 | | | | | | | |
| Slate & Shells | | | 830 | 860 | | | | | | | |
| Sand | | | 860 | 900 | | | | | | | |
| Slate & Shells | | | 900 | 930 | | | | | | | |
| Sand | | | 930 | 975 | | | | | | | |
| Slate | | | 975 | 1005 | Water | | | | | | |
| Salt Sand | | | 1005 | 1425 | 1063' | | | | | | |
| Slate | | | 1425 | 1435 | | | | | | | |
| Little Lime | | | 1435 | 1450 | | | | | | | |
| Pencil Cave | | | 1450 | 1457 | | | | | | | |
| Big Lime | | | 1457 | 1550 | | | | | | | |
| Keener | | | 1550 | 1562 | | | | | | | |
| Lime | | | 1562 | 1592 | | | | | | | |
| Injun Sand | | | 1592 | 1652 | | | | | | | |
| Slate | | | 1652 | 1657 | | | | | | | |
| Sand | | | 1657 | 1667 | | | | | | | |
| Lime | | | 1667 | 1683 | | | | | | | |
| Slate & Shells | | | 1683 | 2070 | | | | | | | |
| Shale | Brown | | 2070 | 2079 | | | | | | | |
| Berea Grit | | | 2079 | 2091 | | | | | | | |
| Slate&Shells | | | 2091 | 3285 | | | | | | | |
| Shale | Brown | | 3285 | 3325 | | | | | | | |
| Slate&Shells | | | 3325 | 3570 | | | | | | | |
| Shale | Brown | | 3570 | 3870 | | | | | | | |
| Slate | White | | 3870 | 4315 | | | | | | | |
| Shale | Brown | | 4315 | 4637 | | | | | | | |