



- New Location
- Drill Deeper
- Abandonment

|                             |   |
|-----------------------------|---|
| Company                     | <u>United Carbon Co.</u>                    |
| Address                     | <u>Charleston, W. Va.</u>                   |
| Farm                        | <u>John O. Harpold</u>                      |
| Tract                       | Acres <u>210</u> Lease No. <u>2477</u>      |
| Well (Farm) No.             | <u>2</u> Serial No. <u>1096</u>             |
| Elevation (Spirit Level)    | <u>715.2</u>                                |
| Quadrangle                  | <u>Kenna - NW</u>                           |
| County                      | <u>Jackson</u> District <u>Ripley</u>       |
| Engineer                    | <u>C. W. Withrow</u>                        |
| Engineer's Registration No. |   |
| File No.                    | Drawing No.                                 |
| Date                        | <u>Oct. 19, 1942</u> Scale <u>1" = 660'</u> |

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

**WELL LOCATION MAP**  
FILE NO. Jac. 412

+ 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.

Deep Well ✓

WEST VIRGINIA DEPARTMENT OF MINES  
OIL & GAS DIVISION  
W E L L R E C O R D

Permit No. Jac 412  
Kenna Quad.

Gas Well  
CASING & TUBING

|               |                                  |        |                    |
|---------------|----------------------------------|--------|--------------------|
| Company       | United Carbon Company            |        |                    |
| Address       | Box 1913, Charleston, W.Va.      | 16     | 15'                |
| Farm          | J.O. Harpold et al Acres 210     | 13 3/8 | 500'10             |
| Location      | Grasslick Creek                  | 10 1/2 | 992'2              |
| Well No       | 2 Elev. 715.2                    | 85/8   | 2032 2032'         |
| District      | Ripley Jackson County            | 7      | 4889 4889          |
| Surface       | J.O. Harpold et al, Kenna, W.Va. |        |                    |
| Mineral       | Same                             |        |                    |
| Commenced     | Nov. 19, 1942                    |        | Casing Cemented:   |
| Completed     | March 29, 1943                   |        | 8 5/8 520' 1-13-43 |
| Date shot     | March 30, 1943                   |        | 7" 130' 3-15-43    |
| Open Flow     | 11/10ths M in 7"                 |        |                    |
| Volume        | 5,179,000 C.F.                   |        | Coal at 1135' 60"  |
| Rock Pressure | 1440 lbs. 24 hrs.                |        |                    |
| Salt Water    | 1140' 1550' H.F.                 |        |                    |

|                               |       |      |       |                                     |           |      |
|-------------------------------|-------|------|-------|-------------------------------------|-----------|------|
| Red Rock                      | 0     | 14   | Shale | Brown                               | 4600      | 4700 |
| Lime                          | 14    | 25   | Slate | White                               | 4700      | 4750 |
| Red Rock                      | 25    | 35   | Shale | Brown                               | 4750      | 4840 |
| Sand                          | 35    | 60   | Shale | Black-MARCELLUS                     | 4840      | 4877 |
| Slate                         | White | 50   | 50    | Corniferous Lime                    | 4877      | 4980 |
| Lime                          | 90    | 115  | 50    | Oriskany Sand                       | 4980      |      |
| Red Rock                      | 115   | 145  |       | TOTAL DEPTH                         |           | 5017 |
| Slate                         | 145   | 200  |       |                                     |           |      |
| Lime                          | Sandy | 200  |       | Oriskany Pays D.S.                  |           |      |
| Slate                         | 227   | 270  |       | 4986 Show of gas - no test          |           |      |
| Red Rock                      | 270   | 300  |       | 4987' 8/10 W 2"                     | 119 MCF   |      |
| Slate                         | 300   | 380  |       | 4988' 2/10 W 7" O.D.                | 610 MCF   |      |
| Lime                          | 380   | 410  |       | 4989' 8/10 W 7" O.D.                | 1,220 MCF |      |
| Shells                        | 410   | 500  |       | 4991' 12/10 W 7" O.D.               | 1,494 MCF |      |
| Sand - <i>1 1/2 ft. Sand?</i> | 500   | 560  |       | 4995' 8/10 W 7" O.D.                | 1,220 MCF |      |
| Slate                         | 560   | 575  |       | 5000' 6/10 W 2" O.D.                | 1,057 MCF |      |
| Red Rock                      | 575   | 605  |       | 5010' 4/10 W 7" O.D.                | 862 MCF   |      |
| Lime                          | 605   | 640  |       | 5011' 6/10 W 7" O.D.                | 1,057 MCF |      |
| Red Rock                      | 640   | 685  |       | 5017' 4/10 W 7" O.D.                | 862 MCF   |      |
| Slate                         | 685   | 700  |       |                                     |           |      |
| Lime                          | 700   | 720  |       | Test R.S. 3/10 W 7" 24#             | 733 MCF   |      |
| Slate                         | 720   | 760  |       | Shot with 80 qts. Glycerine from    |           |      |
| Lime                          | 760   | 785  |       | 5986 to 5013                        |           |      |
| Red Rock                      | 785   | 810  |       | with 3 - 4 1/2" shells on 4' Anchor |           |      |
| Slate                         | 810   | 825  |       |                                     |           |      |
| Lime                          | 825   | 840  |       | Test A.S.                           |           |      |
| Slate                         | 840   | 868  |       | First 10 Mins. 12/10 M 7" 24#       | 5,406 MCF |      |
| Sand                          | 868   | 885  |       | " 15 Mins 12/10 M 7" "              | 5,406 MCF |      |
| Slate & Shells                | 885   | 986  |       | " 20 Mins. 11/10 M 7" "             | 5,179 MCF |      |
| Big Dunkard                   | 986   | 1060 |       | " 25 Mins. 11/10 M 7" "             | 5,179 MCF |      |
| Lime                          | 1060  | 1085 |       | " 30 Mins 11/10 M 7" "              | 5,179 MCF |      |
| Slate                         | White | 1085 |       | " 35 Mins 11/10 M 7" "              | 5,179 MCF |      |
| Slate                         | Black | 1115 |       | " 40 Mins 11/10 M 7" "              | 5,179 MCF |      |
| Coal                          | 1135  | 1140 |       | " 45 Mins 11/10 M 7" "              | 5,179 MCF |      |
| Slate                         | 1140  | 1163 |       |                                     |           |      |
| Lime                          | 1163  | 1272 |       |                                     |           |      |
| Sand                          | 1272  | 1315 |       |                                     |           |      |
| Lime                          | 1315  | 1435 |       |                                     |           |      |
| Slate                         | Black | 1435 |       |                                     |           |      |
| Slate & Shells                | 1450  | 1495 |       |                                     |           |      |
| Lime                          | 1495  | 1530 |       |                                     |           |      |
| Salt Sand                     | 1530  | 1953 |       |                                     |           |      |
| Slate                         | 1953  | 1958 |       |                                     |           |      |
| Injun Sand                    | 1958  | 1986 |       |                                     |           |      |
| Slate & Shells                | 1986  | 2030 |       |                                     |           |      |
| Lime                          | 2030  | 2160 |       |                                     |           |      |
| Slate & Shells                | 2160  | 3605 |       |                                     |           |      |
| Shale                         | Brown | 3605 |       |                                     |           |      |
| Slate & Shells                | 3630  | 4070 |       |                                     |           |      |
| Shale                         | Brown | 4070 |       |                                     |           |      |
| Slate & Shells                | 4085  | 4170 |       |                                     |           |      |
| Slate                         | White | 4170 |       |                                     |           |      |