

Company **SPARTAN GAS COMPANY**  
 Address **518 KANAWHA VALLEY BLDG, CHARLESTON, WVA**  
 Farm **B.F. CASTO**  
 Tract \_\_\_\_\_ Acres **281** Lease No. \_\_\_\_\_  
 Well (Farm) No. **ONE** Serial No. **S-31**  
 Elevation (Spirit Level) **944.1 GROUND**  
 Quadrangle **RIPLEY SW**  
 County **JACKSON** District **WASHINGTON**  
 Engineer **Robert S. Hyde**  
 Engineer's Registration No. **646**  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date **MARCH 2, 1942** Scale **1 INCH = 660 FEET**

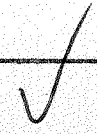
STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

**WELL LOCATION MAP**  
 FILE NO. **JAC-313**

+ 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.

*6-6-1942*



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

Permit No. Jac. 313

|               |                                 |                   |        |            |
|---------------|---------------------------------|-------------------|--------|------------|
| Company       | Spartan Gas Company             | Gas Well          |        |            |
| Address       | 518 Kanawha Valley Bldg., Chas. | CASING & TUBING   | 18     | 59'6 59'6  |
| Farm          | B.F. Casto Acres 281            |                   | 13 3/8 | 880 104'10 |
| Location      | Tug Fork                        |                   | 10 1/2 | 1335 1212' |
| Well No.      | One Elev. 948.7 LDF             |                   | 85/8   | 2233 2233  |
| District      | Washington Jackson County       |                   | 7      | 5184 5184  |
| Surface       | B.F. Casto, Gay, W. Va.         |                   | 2 3/8  | 5271 5271  |
| Mineral       | B.F. Casto, Gay, W. Va.         |                   |        |            |
| Commenced     | April 15, 1942                  | CASING CEMENTED:  |        |            |
| Completed     | July 13, 1942                   | 15 bags cement 7" |        |            |
| Not shot      |                                 |                   |        |            |
| Flow          | 4 5/10ths M in 7" 22#           |                   |        |            |
| Volume        | 10,676,000 C.F.                 |                   |        |            |
| Rock Pressure | 1700 lbs. 24 hrs.               |                   |        |            |

|                     |      |      |                  |      |      |
|---------------------|------|------|------------------|------|------|
| Surface             | 0    | 10   | Slate & Shells   | 4430 | 4800 |
| Red Rock            | 10   | 240  | Brown Shale      | 4800 | 5167 |
| Sand                | 240  | 260  | Corniferous Lime | 5167 | 5276 |
| Red Rock            | 260  | 315  | Oriskany Sand    | 5276 | 5288 |
| Slate               | 315  | 365  | TOTAL DEPTH      |      | 5288 |
| Sand                | 365  | 433  |                  |      |      |
| Red Rock            | 433  | 450  | Gas 5276-5286    |      |      |
| Sand                | 450  | 520  |                  |      |      |
| Red Rock            | 520  | 535  |                  |      |      |
| Gray Lime           | 535  | 565  |                  |      |      |
| Red Rock            | 565  | 600  |                  |      |      |
| Gray Lime           | 600  | 665  |                  |      |      |
| Slate               | 665  | 674  |                  |      |      |
| Sand-Hard           | 674  | 688  |                  |      |      |
| Slate               | 688  | 700  |                  |      |      |
| Sand                | 700  | 719  |                  |      |      |
| Slate               | 719  | 725  |                  |      |      |
| Lime                | 725  | 741  |                  |      |      |
| Slate               | 741  | 795  |                  |      |      |
| Lime                | 795  | 830  |                  |      |      |
| Red Rock            | 830  | 850  |                  |      |      |
| Gray Lime           | 850  | 856  |                  |      |      |
| Red Rock            | 856  | 967  |                  |      |      |
| Sand                | 967  | 983  |                  |      |      |
| White Slate         | 983  | 1045 |                  |      |      |
| Red Rock            | 1045 | 1075 |                  |      |      |
| Lime                | 1075 | 1105 |                  |      |      |
| Red Rock            | 1105 | 1115 |                  |      |      |
| Lime                | 1115 | 1135 |                  |      |      |
| Red Rock            | 1135 | 1170 |                  |      |      |
| Lime                | 1170 | 1312 |                  |      |      |
| Sand                | 1312 | 1385 |                  |      |      |
| Black Slate         | 1385 | 1396 |                  |      |      |
| Sand                | 1396 | 1438 |                  |      |      |
| Slate & Shells      | 1438 | 1575 |                  |      |      |
| Sand                | 1575 | 1610 |                  |      |      |
| Lime Shells & Slate | 1610 | 1805 |                  |      |      |
| Sand                | 1805 | 1830 |                  |      |      |
| Slate & Shells      | 1830 | 1877 |                  |      |      |
| Salt Sand           | 1877 | 2112 | H.W. W. 1885'    |      |      |
| Little Lime         | 2112 | 2137 |                  |      |      |
| Big Lime            | 2137 | 2150 |                  |      |      |
| Big Injun Sand      | 2150 | 2210 |                  |      |      |
| Slate               | 2210 | 2215 |                  |      |      |
| Sand - SQUAW        | 2215 | 2228 |                  |      |      |
| Slate & Shells      | 2228 | 2585 |                  |      |      |
| Brown Shale         | 2585 | 2600 |                  |      |      |
| Berea Sand          | 2600 | 2606 |                  |      |      |
| Slate & Shells      | 2606 | 3858 |                  |      |      |
| Brown Shale - 441   | 3858 | 3930 |                  |      |      |
| Lime                | 3930 | 4080 |                  |      |      |
| Slate & Shells      | 4080 | 4145 |                  |      |      |
| Brown Shale         | 4145 | 4430 |                  |      |      |