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| Company | PITTSBURGH & WVA. GAS CO. |
| Address | UNION BANK B'LDG., CLARKSBURG, WVA. |
| Farm | I.N. CZIGANS |
| Tract | Acres 160 Lease No. 7804 |
| Well (Farm) No. | 2 Serial No. 6094 |
| Quadrangle | HOLBROOK S.E. 21 EC |
| County | DODDRIDGE |
| District | SOUTHWEST |
| Engineer | <i>James T. Jeffries</i> |
| Engineer's Registration No. | |
| File No. | Drawing No. |
| Date | MAY 19, 1936 Scale 1" = 500 Ft |

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

WELL LOCATION MAP
 FILE NO. *Dod-63*
plugged 7/19/1943

+ 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.

Southwest District, Doddridge County, W. Va.
 By Pittsburgh & W. Va. Gas Co., Clarksburg, W. Va. (F.E. Brigden).
 On 160 acres, (Map Loca. Holbrook S.E.2-1); surface owned by
 Mrs. Laura Spurgeon, R. F. D. No. 1, Auburn, W. Va.; and
 mineral rights by H. J. Czigans, R. F. D. No. 1, Auburn, W. Va.
 Drilled under permit Dodd-63, issued June 8, 1936.
 Elevation, 987' L.
 13" conductor, 16'; 10" casing, 294'; 8 1/2", 945'; 6-5/8", 1808';
 3" tubing, 2518'.
 Bottom hole packer, 8 1/4 x 6-5/8, set at 1808';
 Hook wall packer, 6-5/8 x 3, set at 2442'.
 Coal was encountered at 115-118'.
 Located, May 19, 1936; began drg., 7-3-36; comp.drg. 9-4-36.
 Completion reported to Dept. of Mines Sept. 21, 1936.
 Well was shot at 2483-2478', with 60 lbs. dynamite.
 6-5/8" hole. Gas well; 16/10 water in 1" opening.
 Fresh water at 30 and 1117'.

| | Top. | Bottom. | Thickness. |
|--|------|---------|------------|
| Red rock, soft (8 bailers water per hour at 30') | 0 | 30 | 30 |
| Sand, white, soft | 30 | 35 | 5 |
| Red rock, soft | 35 | 115 | 80 |
| Coal (native), black, soft | 115 | 118 | 3 |
| Slate, white, soft | 118 | 120 | 2 |
| Lime, white, hard | 120 | 135 | 15 |
| Red rock, soft | 135 | 255 | 120 |
| Slate, white, soft | 255 | 267 | 12 |
| Lime, white, soft | 267 | 273 | 6 |
| Slate, white, soft | 273 | 285 | 12 |
| Lime, white, hard | 285 | 320 | 35 |
| Slate, white, soft | 320 | 325 | 5 |
| Red rock, soft | 325 | 353 | 28 |
| Lime, white, hard | 353 | 370 | 17 |
| Bluff Sand, white, hard | 370 | 405 | 35 |
| Slate, white, soft | 405 | 410 | 5 |
| Lime, white, hard | 410 | 497 | 87 |
| Hurry-up Sand, white, soft | 497 | 515 | 18 |
| Slate, white, soft | 515 | 530 | 15 |
| Red rock, soft | 530 | 550 | 20 |
| Slate, white, soft | 550 | 565 | 15 |
| Red rock, soft | 565 | 665 | 10 |
| Lime, white, soft and hard | 665 | 690 | 25 |
| Red rock, soft | 690 | 695 | 5 |
| Slate, white, soft | 695 | 740 | 45 |
| Lime, white, hard | 740 | 773 | 33 |
| Red rock, soft | 773 | 778 | 5 |
| Little Dunkard Sand, white, hard and soft | 778 | 800 | 22 |
| Lime, white, broken | 800 | 875 | 75 |
| Slate, white, soft | 875 | 897 | 22 |
| Lime, white, hard | 897 | 912 | 15 |
| Big Dunkard Sand, white, hard | 912 | 918 | 6 |
| Slate, black, soft | 918 | 944 | 26 |
| Lime, white, gritty | 944 | 957 | 13 |
| Slate, white, soft | 957 | 960 | 3 |

(OVER)

J. N. CZIGANS NO. 6094 WELL (Continued).

| | Top. | Bottom. | Thickness. |
|---|------|--------------|------------|
| Lime, white, hard | 960 | - 1018 | 58 |
| Slate, white, soft | 1018 | - 1050 | 32 |
| Lime, white, hard | 1050 | - 1075 | 25 |
| Slate, white, soft | 1075 | - 1115 | 40 |
| Lime, white, hard ($\frac{1}{4}$ bailer water per hour at 1117') | 1115 | - 1126 | 11 |
| Slate, black, soft | 1126 | - 1144 | 18 |
| Lime, white, hard and gritty | 1144 | - 1190 | 46 |
| Slate, black, soft | 1190 | - 1204 | 14 |
| Gas Sand, white, hard and soft | 1204 | - 1315 | 111 |
| Slate, black, soft | 1315 | - 1406 | 91 |
| 1st Salt Sand, white, hard | 1406 | - 1472 | 66 |
| Slate, black, shell-lime | 1274 | - 1505 | 33 |
| Lime, white, hard, gritty | 1505 | - 1565 | 60 |
| Slate-Lime, black, soft-hard | 1565 | - 1596 | 31 |
| 2nd Salt Sand, white, hard | 1596 | - 1633 | 37 |
| Slate, black, soft | 1633 | - 1645 | 12 |
| Lime, white, hard | 1645 | - 1675 | 28 |
| Red rock, soft | 1675 | - 1685 | 12 |
| Lime, white, hard | 1685 | - 1712 | 27 |
| Red rock, soft | 1712 | - 1725 | 13 |
| Lime, white, hard | 1725 | - 1727 | 2 |
| Maxton Sand, white, hard | 1727 | - 1745 | 18 |
| Slate, white, soft | 1745 | - 1757 | 12 |
| Lime, white, hard | 1757 | - 1774 | 17 |
| Blue Monday Sand, white, hard | 1774 | - 1790 | 16 |
| Pencil Cave, black, soft | 1790 | - 1800 (SLM) | 10 |
| Big Lime, white, hard | 1800 | - 1866 | 66 |
| Big Injun Sand, white, hard (show oil, 1874'; show gas, 1876'; SLM 1876') | 1866 | - 1942 | 76 |
| Slate, white, soft | 1942 | - 1952 | 10 |
| Lime shells, white, hard | 1952 | - 1958 | 6 |
| Slate and shells, white, hard | 1958 | - 2042 | 84 |
| Berea Grit, white, hard | 2042 | - 2179 | 137 |
| Slate, black, soft | 2179 | - 2208 | 29 |
| Slate and shells, white, hard and soft | 2208 | - 2315 | 107 |
| Lime, white, hard | 2315 | - 2350 | 35 |
| Slate, white, soft | 2350 | - 2365 | 15 |
| Lime, white, soft | 2365 | - 2379 | 14 |
| Slate, white, soft | 2379 | - 2386 | 7 |
| Lime, white, hard (SLM, 2408') | 2386 | - 2421 | 35 |
| Slate, white, soft | 2421 | - 2429 | 8 |
| Lime, white, hard | 2429 | - 2464 | 35 |
| Slate, white, soft | 2464 | - 2478 | 14 |
| Gordon Sand, white, hard and soft (gas, 2479-32') | 2478 | - 2483 | 5 |
| Slate, white, soft, to bottom (SLM) | 2483 | - 2518 | 35 |