



WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION

WELL RECORD

Permit No. Kan420

Gas Well

Kenna Quad.

CASING & TUBING

|             |                                  |                 |                           |
|-------------|----------------------------------|-----------------|---------------------------|
| Company     | Glenn Oil & Gas Co.              | 13              | 21'2"                     |
| Address     | 511 Charleston Nat. Bank Bldg.   | 10              | 428                       |
| Farm        | J.A. Haynes Est. Acres Not given | 8 1/2           | 375                       |
| Location    | Leatherwood Creek                | 7 O.D.          | 1958                      |
| Well No.    | 1-4                              | Elev. 1011      | 5 1/2 O.D. 5154           |
| District    | Poca                             | County Kanawha  | 2 5294'4"                 |
| Surface     | J.A. Haynes Est.                 |                 |                           |
| Mineral     | Same                             |                 |                           |
| Drilling    | Commenced 6-24-1937              |                 | CASING CEMENTED: 5 1/2" - |
|             | Completed 11-13-1937             |                 | 5154' --10-17-37          |
| Date Shot   | 11-7-37                          | Depth 5280-5284 |                           |
| Volume      | 116,448 Cu.Ft.                   |                 |                           |
| Rock Press. | 1850# hrs. not given             |                 |                           |

| Formation      | Color | Top  | Base | Result         | Formation        | Color    | Top  | Base | Result |
|----------------|-------|------|------|----------------|------------------|----------|------|------|--------|
| Surface-Gravel |       | 0    | 5    |                | Shale            | Brown    | 2305 | 2335 |        |
| Shaley Rock    |       | 5    | 20   |                | Berea Shell      |          | 2335 | 2340 |        |
| Sand Rock      |       | 20   | 75   |                | Slate&Shells     | White    | 2340 | 3435 |        |
| Mud            | Blue  | 75   | 115  |                | Slate            | Brown    | 3435 | 3545 |        |
| Rock           | Red   | 115  | 140  | Water          | Shale            | Brown    | 3545 | 3645 | Gas    |
| Slate          | White | 140  | 180  | 135            | Slate&Shells     |          | 3645 | 3848 | 3580   |
| Slate          | Black | 180  | 210  | 8 Bail.        | Shale            | Brown    | 3848 | 4240 | Not    |
| Rock Red       | Red   | 210  | 220  | pr.hr.         | Slate            | White    | 4240 | 4660 | enough |
| Sand           | Blue  | 220  | 240  |                | Slate            | L. Brown | 4660 | 4836 | to     |
| Rock           | Red   | 240  | 285  | Water          | Shale            | D. Brown | 4836 | 4911 | gauge  |
| Slate          | Blue  | 285  | 300  | 200            | Slate            | White    | 4911 | 4936 |        |
| Rock           | Red   | 300  | 360  |                | Shale            | Brown    | 4936 | 5132 |        |
| Slate          | Blue  | 360  | 375  |                | Line-Corniferous |          | 5132 | 5260 |        |
| Rock           | Red   | 375  | 405  |                | Oriskany Sand    |          | 5260 | 5323 | Gas    |
| Sand           | Blue  | 405  | 430  |                | Lime             | Dark     | 5323 | 5332 | 5280-  |
| Sand           | Red   | 430  | 435  |                | TOTAL DEPTH      |          |      | 5332 | 5284   |
| Sand           | Blue  | 435  | 472  |                |                  |          |      |      | 6/10W. |
| Rock           | Red   | 472  | 495  |                |                  |          |      |      | 2"     |
| Rock           | Blue  | 495  | 540  |                |                  |          |      |      |        |
| Sand           |       | 540  | 555  |                |                  |          |      |      |        |
| Slate          | White | 555  | 606  |                |                  |          |      |      |        |
| Sand           |       | 606  | 810  |                |                  |          |      |      |        |
| Slate          | Black | 810  | 860  |                |                  |          |      |      |        |
| Sand           |       | 860  | 950  |                |                  |          |      |      |        |
| Slate          |       | 950  | 970  |                |                  |          |      |      |        |
| Sand           |       | 970  | 1045 |                |                  |          |      |      |        |
| Slate          |       | 1045 | 1075 |                |                  |          |      |      |        |
| Sand           |       | 1075 | 1115 |                |                  |          |      |      |        |
| Slate          |       | 1115 | 1220 |                |                  |          |      |      |        |
| Sand           |       | 1220 | 1245 |                |                  |          |      |      |        |
| Slate          |       | 1245 | 1290 |                |                  |          |      |      |        |
| Sand           |       | 1290 | 1332 |                |                  |          |      |      |        |
| Slate          |       | 1332 | 1352 | Oil            |                  |          |      |      |        |
| Salt Sand      |       | 1352 | 1718 | 1365-75        |                  |          |      |      |        |
| Slate          | Blue  | 1718 | 1720 | 1 Bbl. pr. hr. |                  |          |      |      |        |
| Little Lime    | Black | 1720 | 1751 | 1st Salt       |                  |          |      |      |        |
| Slate          | Blue  | 1751 | 1765 | Water          |                  |          |      |      |        |
| Big Lime       |       | 1765 | 1910 | 1420'          |                  |          |      |      |        |
| Lime (Gritty)  |       | 1910 | 1945 | 4 Bailers      |                  |          |      |      |        |
| Slate          |       | 1945 | 1950 | pr. hr.        |                  |          |      |      |        |
| Lime (Gritty)  |       | 1950 | 2058 |                |                  |          |      |      |        |
| Slate & Shell  |       | 2058 | 2305 | Gas            |                  |          |      |      |        |
|                |       |      |      | 1814           |                  |          |      |      |        |
|                |       |      |      | enough         |                  |          |      |      |        |
|                |       |      |      | to flow.       |                  |          |      |      |        |
|                |       |      |      | Salt Water     |                  |          |      |      |        |