

SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

|                                          |                  |                 |                           |                               |                                          |                                   |            |  |
|------------------------------------------|------------------|-----------------|---------------------------|-------------------------------|------------------------------------------|-----------------------------------|------------|--|
| Operator<br><b>Tidewater Oil Company</b> |                  |                 | Lease<br><b>State "A"</b> |                               |                                          | HOODS OFFICE 1061<br>No. <b>4</b> |            |  |
| Location of Well                         | Unit<br><b>A</b> | Sec<br><b>8</b> | Twp<br><b>21</b>          | Rge<br><b>36</b>              | 1959 SEP 13 PM 1:38<br>County <b>Lea</b> |                                   |            |  |
| Name of Reservoir or Pool                |                  |                 | Type of Prod (Oil or Gas) | Method of Prod Flow, Art Lift | Prod. Medium (Tbg or Csg)                |                                   | Choke Size |  |
| Upper Compl                              | <b>Bumont</b>    |                 | <b>Gas</b>                | <b>Flow</b>                   | <b>Casing</b>                            |                                   | <b>-</b>   |  |
| Lower Compl                              | <b>Eunice</b>    |                 | <b>Oil</b>                | <b>Gas lift</b>               | <b>Tubing</b>                            |                                   | <b>-</b>   |  |

FLOW TEST NO. 1

Both zones shut-in at (hour, date): 11:00 AM 9-8-59

|                                                          | Upper Completion                                  | Lower Completion  |
|----------------------------------------------------------|---------------------------------------------------|-------------------|
| Well opened at (hour, date): <u>3:30 PM 9-8-59</u>       |                                                   |                   |
| Indicate by ( X ) the zone producing.....                | <u>X</u>                                          |                   |
| Pressure at beginning of test.....                       | <u>820</u>                                        | <u>780</u>        |
| Stabilized? (Yes or No).....                             | <u>Yes</u>                                        | <u>Yes</u>        |
| Maximum pressure during test.....                        | <u>820</u>                                        | <u>780</u>        |
| Minimum pressure during test.....                        | <u>550</u>                                        | <u>740</u>        |
| Pressure at conclusion of test.....                      | <u>650</u>                                        | <u>740</u>        |
| Pressure change during test (Maximum minus Minimum)..... | <u>270</u>                                        | <u>40</u>         |
| Was pressure change an increase or a decrease?.....      | <u>Decrease</u>                                   | <u>Decrease</u>   |
| Well closed at (hour, date): <u>(9:15 AM 9-9-59</u>      | Total Time On Production <u>17 hours 45 mins.</u> |                   |
| Oil Production                                           | Gas Production                                    |                   |
| During Test: <u>0</u> bbls; Grav. <u>-</u> ;             | During Test <u>271</u>                            | MCF; GOR <u>-</u> |
| Remarks _____                                            |                                                   |                   |

FLOW TEST NO. 2

|                                                          |                                                  |                          |
|----------------------------------------------------------|--------------------------------------------------|--------------------------|
| Well opened at (hour, date): <u>3:45 PM 9-9-59</u>       | Upper Completion                                 | Lower Completion         |
| Indicate by ( X ) the zone producing.....                |                                                  | <u>X</u>                 |
| Pressure at beginning of test.....                       | <u>850</u>                                       | <u>750</u>               |
| Stabilized? (Yes or No).....                             | <u>Yes</u>                                       | <u>Yes</u>               |
| Maximum pressure during test.....                        | <u>940</u>                                       | <u>750</u>               |
| Minimum pressure during test.....                        | <u>650</u>                                       | <u>10</u>                |
| Pressure at conclusion of test.....                      | <u>780</u>                                       | <u>50</u>                |
| Pressure change during test (Maximum minus Minimum)..... | <u>290</u>                                       | <u>740</u>               |
| Was pressure change an increase or a decrease?.....      | <u>Decrease</u>                                  | <u>Decrease</u>          |
| Well closed at (hour, date): <u>1:45 PM 9-10-59</u>      | Total time on Production <u>22 hours 0 mins.</u> |                          |
| Oil Production                                           | Gas Production                                   |                          |
| During Test: <u>10</u> bbls; Grav. <u>33</u> ;           | During Test <u>135.5</u>                         | MCF; GOR <u>13,550:1</u> |
| Remarks <u>Very Gas and very low pressure</u>            |                                                  |                          |

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved \_\_\_\_\_ 19  
New Mexico Oil Conservation Commission

By \_\_\_\_\_  
Title \_\_\_\_\_ District \_\_\_\_\_

Operator Tidewater Oil Company

By \_\_\_\_\_ Original \_\_\_\_\_ By \_\_\_\_\_  
E. W. HOGUE

Title Production Foreman

Date September 11, 1959

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5. The well being tested shall be shut-in at the test No. 1, the well shall again be shut-in at the completion of the test No. 2 above.
6. Flow test No. 2 shall be conducted even though no leak was indicated during flow test No. 1. The duration for flow test No. 2 is to be the same as the flow test No. 1 during which the previously produced zone shall remain shut-in while the previously shut-in zone is produced.
7. A flow log throughout the entire test shall be continuously measured and recorded with recording pressure gauges, the accuracy of which must be checked with a deadweight tester at least twice, once at the beginning and once at the end of each flow test.
8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the appropriate District Office of the New Mexico Oil Conservation Commission on Southeast New Mexico Packer Leakage Test Form Revised 1-1-58, together with the original pressure recording gauge charts with all the deadweight pressures which were taken indicated thereon. In lieu of filing the above as item 8, the operator may construct a pressure versus time curve for each zone of each test, indicating thereon all pressure changes. If any leakage is indicated by the gauge charts as well as all deadweight pressure recording charts were taken. If the pressure curve is submitted, the original chart must be permanently filed in the operator's office. Form Packer Leakage Test Form, accompanying the Packer Leakage Test Form when the estimated value is with a gas-oil ratio test period.

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