

SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

|                                                       |                                           |                              |                                   |                              |                       |              |
|-------------------------------------------------------|-------------------------------------------|------------------------------|-----------------------------------|------------------------------|-----------------------|--------------|
| Operator<br><b>Pan American Petroleum Corporation</b> |                                           |                              | Lease<br><b>South Mattix Unit</b> |                              | Well<br>No. <b>18</b> |              |
| Location<br>of Well                                   | Unit<br><b>9</b>                          | Sec<br><b>22</b>             | Twp<br><b>24</b>                  | Rge<br><b>37</b>             | County<br><b>Lea</b>  |              |
| Name of Reservoir or Pool                             |                                           | Type of Prod<br>(Oil or Gas) | Method of Prod<br>Flow, Art Lift  | Prod. Medium<br>(Tbg or Csg) | Choke Size            |              |
| Upper<br>Compl                                        | <b>Fowler Lower Paddock Gas (Oil Rim)</b> |                              | <b>Oil</b>                        | <b>Flow</b>                  | <b>Tbg.</b>           | <b>11/64</b> |
| Lower<br>Compl                                        | <b>Fowler Elinebry</b>                    |                              | <b>Oil</b>                        | <b>Pump</b>                  | <b>Tbg.</b>           | <b>--</b>    |

FLOW TEST NO. 1

|                                                          |                            |                                                 |                     |
|----------------------------------------------------------|----------------------------|-------------------------------------------------|---------------------|
| Both zones shut-in at (hour, date):                      |                            | <b>9:30 A.M. - 1-18-66</b>                      |                     |
| Well opened at (hour, date):                             | <b>9:30 A.M. - 1-19-66</b> | Upper<br>Completion                             | Lower<br>Completion |
| Indicate by ( X ) the zone producing.....                |                            | <b>X</b>                                        |                     |
| Pressure at beginning of test.....                       |                            | <b>1058</b>                                     | <b>60</b>           |
| Stabilized? (Yes or No).....                             |                            | <b>No</b>                                       | <b>Yes</b>          |
| Maximum pressure during test.....                        |                            | <b>1058</b>                                     | <b>70</b>           |
| Minimum pressure during test.....                        |                            | <b>746</b>                                      | <b>60</b>           |
| Pressure at conclusion of test.....                      |                            | <b>746</b>                                      | <b>60</b>           |
| Pressure change during test (Maximum minus Minimum)..... |                            | <b>312</b>                                      | <b>10</b>           |
| Was pressure change an increase or a decrease?.....      |                            | <b>Decrease</b>                                 | <b>Increase</b>     |
| Well closed at (hour, date):                             |                            | Total Time On<br>Production                     |                     |
| <b>3:00 P.M. - 1-19-66</b>                               |                            | <b>5.5 hours</b>                                |                     |
| Oil Production                                           |                            | Gas Production                                  |                     |
| During Test: <b>4</b> bbls; Grav. <b>36</b>              |                            | ; During Test <b>130</b> MCF; GOR <b>32,500</b> |                     |
| Remarks <b>No Leak Indicated</b>                         |                            |                                                 |                     |

FLOW TEST NO. 2

|                                                          |  |                                              |  |                     |  |
|----------------------------------------------------------|--|----------------------------------------------|--|---------------------|--|
| Well opened at (hour, date):                             |  | Upper<br>Completion                          |  | Lower<br>Completion |  |
| <b>9:30 A.M. - 1-20-66</b>                               |  |                                              |  |                     |  |
| Indicate by ( X ) the zone producing.....                |  |                                              |  | <b>X</b>            |  |
| Pressure at beginning of test.....                       |  | <b>1160</b>                                  |  | <b>60</b>           |  |
| Stabilized? (Yes or No).....                             |  | <b>Yes</b>                                   |  | <b>Yes</b>          |  |
| Maximum pressure during test.....                        |  | <b>1176</b>                                  |  | <b>110</b>          |  |
| Minimum pressure during test.....                        |  | <b>1160</b>                                  |  | <b>60</b>           |  |
| Pressure at conclusion of test.....                      |  | <b>1176</b>                                  |  | <b>110</b>          |  |
| Pressure change during test (Maximum minus Minimum)..... |  | <b>16</b>                                    |  | <b>50</b>           |  |
| Was pressure change an increase or a decrease?.....      |  | <b>Increase</b>                              |  | <b>Increase</b>     |  |
| Well closed at (hour, date):                             |  | Total time on<br>Production                  |  |                     |  |
| <b>6:30 P.M. - 1-20-66</b>                               |  | <b>9 hours</b>                               |  |                     |  |
| Oil Production                                           |  | Gas Production                               |  |                     |  |
| During Test: <b>38</b> bbls; Grav. <b>38</b>             |  | ; During Test <b>39</b> MCF; GOR <b>1026</b> |  |                     |  |
| Remarks <b>No Leak Indicated</b>                         |  |                                              |  |                     |  |

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

|                                        |    |                                                    |
|----------------------------------------|----|----------------------------------------------------|
| Approved <b>FEB 13 1966</b>            | 19 | Operator <b>Pan American Petroleum Corporation</b> |
| New Mexico Oil Conservation Commission |    | Original Signed By:<br><b>J. W. MEEK</b>           |
|                                        |    | By <b>J. W. Meek</b>                               |
|                                        |    | Title <b>Area Engineer</b>                         |
|                                        |    | Date <b>January 31, 1966</b>                       |

Following completion of the  
in accordance with Part 1 of the

1. The operator shall submit to the Commission an application for each multiple completion. The application shall include the proposed completion of the well and annually thereafter as provided by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following completion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Commission.
2. At least 72 hours prior to the commencement of any packer leakage test the operator shall notify the Commission in writing of the exact time the test is to be conducted. If the operators shall also be so notified.
3. The operator shall submit to the Commission when both zones of the dual completion are stabilized the pressure stabilization. Before the well remains stabilized for 24 hours the operator shall submit to the Commission a well-stabilization report. The report shall include the following information:
4. For flow tests, the flow rate of the dual completion shall be produced at the normal operating production while the other zone remains shut in. Such test shall be conducted until the flowing wellhead pressure has become stabilized and the shut-in time of two hours thereafter, provided that when the flowing wellhead pressure has been stable for more than 24 hours.

1. Flow Test No. 2 shall be conducted in the same manner as Flow Test No. 1. The well shall be shut-in while the pressure is being measured and recorded. The well shall be shut-in while the pressure is being measured and recorded.
2. All pressures, throughout the test, shall be measured and recorded with the pressure gauge. The gauge must be checked with a test gauge before beginning and after the test.
3. The results of the test shall be reported to the appropriate authority within 15 days after completion of the test. The results shall be reported to the appropriate authority within 15 days after completion of the test.
4. The test shall be conducted in the same manner as Flow Test No. 1. The well shall be shut-in while the pressure is being measured and recorded. The well shall be shut-in while the pressure is being measured and recorded.
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