30-045-24632

STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT

DEPARTMENT
This form is not to
be used for reporting
packer leakage tests
in Southeast New Mexico

## OIL CONSERVATION DIVISION

Page 1 Revised 10/01/78

## NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

| Operator <u>B</u>   | URLINGTON RESOURCE | S OIL & GAS CO.                           |                   | Lease                         | HARE                          | ***                   |                 | Well<br>No.                           | 18 <b>M</b>   |
|---------------------|--------------------|---|-------------------|-------------------------------|-------------------------------|-----------------------|-----------------|---------------------------------------|---------------|
| Location            |                    |   |                   |                               |                               |                       |                 |                                       |               |
| of Well:            | Unit P Sect        | 10 Twp.                                   | 029N              | Rge.                          | 010W                          | County                | SAN JUAN        | 7                                     |               |
|                     | NAME OF            | RESERVOIR OR POOL                         |                   | TY                            | PE OF PROD.                   |                       | OD OF PROD.     | 1                                     | OD. MEDIUM    |
|                     |                    |   |                   | ļ                             | (Oil or Gas)                  | (Flo                  | w or Art. Lift) | (                                     | Гbg. or Csg.) |
| Upper<br>Completion | MESAVERDE          |   |                   |                               | Gas                           |                       | Flow Tubing     |                                       | Tubing        |
| Lower<br>Completion | DAKOTA             |   |                   |                               | Gas                           | Flow                  |                 |                                       | Tubing        |
|                     |                    | PRE-F                                     | LOW SHUT-IN       | PRESS                         | URE DATA                      |                       |                 |                                       |               |
| Upper               | Hour, date shut-in | Hour, date shut-in Length of time shut-in |                   |                               | SI press. psig Stabilized? (Y |                       |                 | es or No)                             |               |
| Completion          | 7/17/97            | 96 Hou                                    | ırs               | ļ                             | 304                           |                       |                 |                                       |               |
| Lower<br>Completion | 7/17/97            | 144 Ho                                    | urs               |                               | 190                           | 190                   |                 |                                       |               |
|                     |                    |   | FLOW TES          | ST NO.                        |                               |                       |                 |                                       |               |
| Commenced           | at (hour,date)*    | 7/21/97                                   |                   |                               | Zone producing (              | Upper or Lower) UPPER |                 |                                       |               |
| TIME                | LAPSED TIME        | PRES                                      | SURE              | PROD. ZONE                    |                               |                       |                 |                                       |               |
| (hour,date)         | SINCE*             | Upper Completion                          | Lower Comple      | etion                         | TEMP                          | REN                   |                 | IARKS                                 |               |
| 7/22/97             | 120 Hours          | 270                                       | 192               |                               |                               |                       |                 |                                       |               |
| 7/23/97             | 144 Hours          | 230                                       | 198               |                               |                               |                       |                 |                                       |               |
|                     |                    |   |                   |                               |                               |                       |                 |                                       |               |
|                     |                    |   |                   |                               |                               |                       | •               |                                       |               |
|                     |                    |   |                   |                               |                               |                       |                 |                                       |               |
|                     |                    |   |                   |                               |                               |                       |                 |                                       | i ·           |
| Production rate     | during test        | <u> </u>                                  |                   |                               |                               |                       | Cong Digit, in  | · · · · · · · · · · · · · · · · · · · | · · ·         |
| Oil:                | BOPD based on      | on Bbls. in                               |                   | Hours. Grav.                  |                               |                       | GOR             |                                       |               |
| Gas:                |                    | MCFPD; Tested thru (0                     | Orifice or Meter) | :                             |                               | ···                   |                 |                                       |               |
|                     |                    | MID.                                      | TEST SHUT-IN      | PRESS                         | TRE DATA                      |                       |                 |                                       |               |
| Unnar               | Hour, date shut-in | Length of time shut-i                     |                   | SI press. psig Stabilized? (Y |                               |                       | es or No        |                                       |               |
| Upper<br>Completion |                    |   |                   |                               |                               |                       |                 |                                       |               |
| Lower<br>Completion | Hour, date shut-in | Length of time shut-in                    |                   | SI p                          | SI press. psig                |                       | Stabilized? (Y  | es or No)                             |               |

(Continue on reverse side)

### FLOW TEST NO. 2

| Commenced a  | it (hour,date)**      |                       |                       | Zone producing (Upper or Lower): |                       |  |  |  |
|--------------|-----------------------|-----------------------|-----------------------|----------------------------------|-----------------------|--|--|--|
| TIME         | LAPSED TIME           | PRESSURE              |                       | PROD. ZONE                       |                       |  |  |  |
| (hour.date)  | SINCE**               | Upper Completion      | Lower Completion      | TEMP.                            | REMARKS               |  |  |  |
|              |                       |                       |                       |                                  |                       |  |  |  |
|              | J                     |                       |                       |                                  |                       |  |  |  |
|              | 1                     |                       |                       |                                  |                       |  |  |  |
|              |                       |                       |                       |                                  |                       |  |  |  |
|              |                       |                       |                       |                                  |                       |  |  |  |
|              |                       |                       |                       |                                  |                       |  |  |  |
|              |                       |                       |                       |                                  |                       |  |  |  |
|              | ļ. <u>.</u>           |                       |                       |                                  |                       |  |  |  |
|              |                       |                       |                       |                                  |                       |  |  |  |
|              |                       | <u> </u>              |                       |                                  |                       |  |  |  |
|              |                       |                       |                       |                                  |                       |  |  |  |
| <u></u>      | <u> </u>              |                       |                       |                                  |                       |  |  |  |
| Production r | rate during test      |                       |                       |                                  |                       |  |  |  |
|              |                       |                       |                       |                                  |                       |  |  |  |
| Oil:         | BOPD bas              | ed on                 | Bbls. in.             | Hours.                           | Grav GOR              |  |  |  |
| Gas:         |                       | MCFPD; Te             | sted thru (Orifice or | Meter):                          |                       |  |  |  |
| Remarks:     |                       |                       |                       |                                  |                       |  |  |  |
|              |                       |                       |                       |                                  |                       |  |  |  |
| I hereby cer | tify that the informa | tion herein contained | is true and complet   | e to the best of my l            | knowledge.            |  |  |  |
|              |                       |                       |                       |                                  | and of formally       |  |  |  |
| Approved     |                       | AN 05 1998            | 19                    | Operator 7                       | surlington Fusicustus |  |  |  |
|              |                       |                       |                       | ,7,                              |                       |  |  |  |
| New .        | Oil Conservation      |                       |                       | By Ma                            | loss sub              |  |  |  |
|              | Oshn                  | ny Rolin              |                       | _                                | And by Man it         |  |  |  |
| Ву           |                       | 7 (1-0)               | Contract Contract     | Title                            | Thratim Woodate       |  |  |  |
|              | Deputy                | Olf & Gas in          | 0.010757              |                                  | 10/2/02               |  |  |  |
| Title        | 1 7                   |                       |                       | Date /                           | 2130   97             |  |  |  |

### NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

- 1. A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be connected on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the titing have been dissurbed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.
- At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify
  the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so
  notified.
- 3. The packer leakage test shall commence when both zones of the dual completion are sinst-in for pressure stabilization, both zones shall remain shat-in until the well-head pressure in each has stabilized, provided however, that they need not remain shat-in more than seven days.
- 4. For flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shad-in. Such test shall be continued for seven days if the case of a gas well and for 24 hours in the case of an oil well. Note: if, on an initial pacier leakage test, a gas well is being flowed to the atmosphere due to the lack of a pipeline connection the flow period shall be three hours.
- Following completion of flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3 above.
- Flow Test No. 2 shall be conducted even though no leak was indicated during flow Test No. 1.
   Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1

- 1. A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the was previously shall in is produced.
  - 7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the beginning of each flow-period, at fifteen minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the flow period, at least one time during each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.
  - 24-boar oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-pas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gaz zone.
  - 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 Aztec District Office of the New Mexico Oil Conservation Division of Northwest New Mexico Pacter Leakage Test form Revised 10/01/78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT

# OIL CONSERVATION DIVISION

Page 1 Revised 10/01/78

This form is not to be used for reporting packer leakage tests in Southeast New Mexico

## NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

| URLINGTON RESOURC   | ES OIL & GAS CO.   | Lease   | HARE  |   | Well<br>No. 18M  |
|---------------------|--|---|---|---|--|
| Unit P Sect NAME OF |  |   | 010W<br>YPE OF PROD.<br>(Oil or Gas)  | County SAN JUAN METHOD OF PROD. (Flow or Art. Lift)   | PROD. MEDIUM<br>(Tbg. or Csg.)   |
| MESAVERDE           |  |   | Gas   | Artificial  | Tubing   |
| DAKOTA              |  |   | Gas   | Flow  | Tubing   |
|                     | PRE-FLOW   | SHUT-IN PRES  | SURE DATA   |   |  |
| Hour, date shut-in  | Length of time shut-in   | SI  | oress. psig   | 'es or No)  |  |
| 04/21/2000          | 72 Hours   |   | 186   |   |  |
| 04/21/2000          | 120 Hours  |   | 154   |   |  |
|                     | F  | LOW TEST NO.  |   |   |  |
| l at (hour.date)*   | 04/24/2000   |   |   | PPER  |  |
| LAPSED TIME         |  |   |   |   |  |
| SINCE*              | Upper Completion Low   | er Completion   | TEMP  | REN   | MARKS  |
| 96 Hours            | 95   | 154   |   |   |  |
| 120 Hours           | 88   | 154   |   | 13977   |  |
|                     |  |   |   | MAY 2000  |  |
| e during test       |  |   |   | 2 Carles Lander William   |  |
| BOPD based on       | Bbls. in   | Hour  | S   | Grav.   | GOR  |
|                     | MCFPD: Tested thru (Orific   | e or Meter):  |   |   |  |
|                     | MID-TEST   | SHUT-IN PRES  | SURE DATA   |   |  |
| Hour. date shut-in  | Length of time shut-in   | SI  | SI press. psig Stabilized? (*   |   |  |
| Hour. date shut-in  | Length of time shut-in   | SI  | press. psig   | Stabilized? (   | Yes or No)   |
|                     | Unit P Sect NAME OF  MESAVERDE  DAKOTA  Hour. date shut-in 04/21/2000  04/21/2000  at (hour.date)* LAPSED TIME SINCE* 96 Hours  120 Hours  BOPD based on | NAME OF RESERVOIR OR POOL  MESAVERDE  DAKOTA  PRE-FLOW Hour. date shut-in 04/21/2000 72 Hours  04/21/2000 120 Hours  F at (hour.date)* 04/24/2000 LAPSED TIME SINCE* Upper Completion 120 Hours 96 Hours 95  120 Hours 88  BOPD based on Bbls. in  MCFPD: Tested thru (Orifice  MID-TEST Hour. date shut-in  Length of time shut-in | Unit P Sect 10 Twp. 029N Rge.  NAME OF RESERVOIR OR POOL T  MESAVERDE  DAKOTA  PRE-FLOW SHUT-IN PRESS.  Hour. date shut-in Length of time shut-in SI poly(21/2000 T2 Hours)  120 Hours  120 Hours  LAPSED TIME PRESSURE  SINCE* Upper Completion Lower Completion  96 Hours 95 154  120 Hours 88 154  MCFPD: Tested thru (Orifice or Meter):  MID-TEST SHUT-IN PRESS.  Hour. date shut-in Length of time shut-in SI poly(1) and the shut-in Hour MCFPD: Tested thru (Orifice or Meter): | Unit P Sect 10 Twp. 029N Rge. 010W  NAME OF RESERVOIR OR POOL TYPE OF PROD. (Oil or Gas)  MESAVERDE Gas  DAKOTA Gas  PRE-FLOW SHUT-IN PRESSURE DATA  Hour, date shut-in 04/21/2000 72 Hours 186  04/21/2000 120 Hours 154  FLOW TEST NO. 1  at (hour,date)* 04/24/2000 Zone producin  LAPSED TIME SINCE* Upper Completion Lower Completion TEMP  96 Hours 95 154  120 Hours 88 154  MCFPD: Tested thru (Orifice or Meter):  MID-TEST SHUT-IN PRESSURE DATA  Hour, date shut-in Hours. | Unit P Sect 10 Twp 029N Rge 010W County SAN JUAN NAME OF RESERVOIR OR POOL (Oil or Gas) (Flow or Art. Lift)  MESAVERDE Gas Artificial  DAKOTA Gas Flow  PRE-FLOW SHUT-IN PRESSURE DATA  Hour. date shut-in 04/21/2000 72 Hours 186  04/21/2000 120 Hours 154  ELAPSED TIME PRESSURE PROD CONE  SINCE* Upper Completion Lower Completion TEMP REM  96 Hours 95 154  120 Hours 88 154  MAY 2000  METHOD OF PROD (Flow or Art. Lift)  MESAVERDE PROD ZONE TEMP REM  PRESSURE Grav.  MCFPD. Tested thru (Orifice or Meter):  MID-TEST SHUT-IN PRESSURE DATA  Hour. date shut-in Length of time shut-in SI press. psig Stabilized? (Yang)  MID-TEST SHUT-IN PRESSURE DATA  Hour. date shut-in Length of time shut-in SI press. psig Stabilized? (Yang)  MID-TEST SHUT-IN PRESSURE DATA  Hour. date shut-in Length of time shut-in SI press. psig Stabilized? (Yang) |

### FLOW TEST NO. 2

| Commenced at (hour, date)** |                         |                        |                            | Zone producing (Upper or Lower): |              |      |  |
|-----------------------------|-------------------------|------------------------|----------------------------|----------------------------------|--------------|------|--|
| TIME<br>(hour, date)        | LAPSED TIME<br>SINCE ** | PRESSURE               |                            | PROD. ZONE                       | REMARKS      |      |  |
|                             |                         | Upper Completion       | Lower Completion           | TEMP.                            |              |      |  |
|                             |                         |                        |                            |                                  |              |      |  |
|                             |                         |                        |                            |                                  |              | ***  |  |
|                             |                         |                        | ļ                          |                                  |              |      |  |
|                             |                         |                        |                            |                                  |              |      |  |
|                             |                         |                        |                            |                                  |              |      |  |
|                             |                         |                        |                            |                                  |              |      |  |
|                             |                         |                        |                            |                                  |              |      |  |
| Production rate du          | ring test               |                        |                            |                                  |              |      |  |
| Oil:                        | B(                      | OPD based on           | Bbls. in                   | Hours                            | Grav         | GOR  |  |
| Gas:                        |                         | MCFP                   | D: Tested thru (Oi         | rifice or Meter):                |              |      |  |
|                             |                         |                        |                            |                                  |              |      |  |
|                             |                         |                        |                            |                                  |              |      |  |
| I hereby certify th         | at the information he   | rein contained is true | e and complete to          | the best of my knowleds          | e.           |      |  |
| Approved                    |                         | 1                      | 9                          | Operator Burlingt                | on Resources |      |  |
| New Mexico C                | Dil Conservation Div    | ision                  |                            | By Adres A                       | age          | **** |  |
| By                          | al signed by cha        | RLE T. PERTON          |                            | Title Operations A               | ssociate     |      |  |
| Title                       | PUTY OIL & GAS II       | NSPECTOR, DIST.        | Date Tuesday, May 09, 2000 |                                  |              |      |  |

### NORTHWEST NEWMEXICO PACKER LEAKAGE TEST INSTRUCTIONS

- I A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion 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 Division
- 2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.
- 3 The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in unti- the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.
- 4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Note, if, on an initial packer leakage test, a gas well is being flowed to the atmosphere due to lack of a pipeline connection the flow period shall be three hours.
- 5- Following completion of Flow Test No. 1, the well shall again be shut-in in accordance with Paragraph 3 above
- 6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except

- that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.
- 7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours tests immediately prior to the beginning of each flow period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests immediately prior to the beginning of each flow period, at least one time during each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.
- 24-hour oil zone tests, all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a weil is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.
- 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 Aziec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).