STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT This form is not to be used for reporting packer leakage tests in Southeast New Mexico

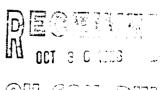
## OIL CONSERVATION DIVISION

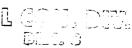
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## NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

| Operator            | MERI                                      | MERIDIAN OIL INC. |           |       |                   |                                |          |           | HUERFANO UNIT |          |           |       |            | Well<br>No. 106 |             |                |            |
|---------------------|---|-------------------|-----------|-------|-------------------|--------------------------------|----------|-----------|---------------|----------|-----------|-------|------------|-----------------|-------------|----------------|------------|
| Location of Well:   | Unit                                      | J                 | Sect.     | 33    | Twp.              | 027                            | N        | Rge.      | 010W          | C        | ounty     | si    | AU JUA     | 7N              |             |                |            |
|                     |   | >                 | NAME OF F | ESERV | OIR OR POOL       |                                |          | Į.        | OF PRO        |          |           |       | OF PRO     | - 1             | PROD.       | MEDI<br>or Csg |            |
| Upper<br>Completion | GA  | LLUP              |           | _     |                   |                                |          | GAS       | ii oi Oas,    | '        | FLOW      |       | AIC DILL   |                 | TUBIN       |                | .)         |
| Lower<br>Completion | DA  | KOTA              |           |       |                   |                                |          | GAS       |               |          | FLOW      |       |            |                 | TUBIN       | G              |            |
|                     |   |                   |           |       | PRE-FLO           | W SI                           | IUT-IN   | N PRESS   | URE DA        | ATA      |           |       |            |                 |             |                |            |
| Upper<br>Completion |   | ır, date shut     | t-in      |       | Length of time sh | ut-in                          |          | SI press. | S S           |          |           |       | Stabilized | 1? (Yes         | or No)      |                |            |
| Lower<br>Completion | /: 3                                      | 30                | 10-11     | -90   | 120               |                                |          |           | 534           | !        |           |       |            |                 |             |                |            |
|                     |   |                   | 1. (      |       | <i>(</i>          | FLC                            | )W TE    | ST NO.    | 1             |          |           |       |            | _               |             |                |            |
| Commenced           | at (hou                                   | r,date)*          | 10-16     | -91   |                   |                                |          |           | Zone          | e produc | ing (Upp  | er or | Lower)     | $\mathcal{Q}$   | mul         | ,              |            |
| TIME                |   | LAPS              | ED TIME   |       |                   | PRESS                          | URE      | -         | PRO           | DD. ZOI  | NE        |       |            |                 | ′           |                |            |
| (hour,date)         |   | SI                | NCE*      |       | Upper Completi    | on I                           | Lower C  | ompletion |               | TEMP     |           |       |            | REM             | ARKS        |                |            |
| 1:30<br>10-14-9     | 6   | 7.                | 2         |       | 164               |                                | 4        | 68        |               |          | 4         | 54    | 168        | 7               |             |                |            |
| 1:30                | ,   | 9                 | 6         |       | 168               |                                | 5        | 22        |               |          | 0         | :54   | 173        | 3               |             |                |            |
| 1:30                |   | 12                | 20        |       | 168               |                                | 5        | 34        |               |          | 6         | :54   | 173        | 70              | nrnea<br>ne | Zo<br>oN,      | wer        |
| 1:30<br>10-17-90    |   | 14                | 14        |       | 168               |                                | 16       | ,2        |               |          | į         |       | 176        |                 |             |                |            |
| 1:30<br>10-18-94    |   | 168               | 8         |       | 168               |                                | 6        | /         |               |          | 2         | 34    | 180        | 1               | LONE        | 13 G           | IPPER<br>U |
|                     |   |                   |           |       | •                 |                                |          |           |               |          |           |       |            |                 |             |                |            |
| Production          | rate di                                   | uring test        | ı         |       |                   |                                |          |           |               |          |           |       |            |                 |             |                |            |
| Oil:                |   | _ вор             | D based o | n     | Вы                | s. <u>in</u>                   |          | Но        | ırs           |          | Gra       | ıv    |            |                 | GOR _       |                |            |
| Gas:                |   |                   |           | _ MCF | PD; Tested th     | ru (O                          | rifice o | r Meter)  |               |          |           |       |            |                 |             |                |            |
|                     |   |                   |           |       | MID-TES           | ST SH                          | IUT-IN   | PRESS     | URE DA        | ATA      |           |       |            |                 |             |                |            |
| Upper<br>Completion | Hour, date shut-in Length of time shut-in |                   |           |       |                   | SI press. psig Stabilized? (Yo |          |           |               | 1? (Yes  | es or No) |       |            |                 |             |                |            |
| Lower<br>Completion | Hour, date shut-in Length of time shut-in |                   |           |       |                   | SI press psig Stabilized? (Y   |          |           |               | 17 (Yes  | or No)    |       |            |                 |             |                |            |

(Continue on reverse side)





FLOW TEST NO. 2

| Comr ed a        | it (hour.Jate)**      |                       |                        | Zone producing (Upper or Lower): |            |                                       |  |  |  |  |  |
|------------------|-----------------------|-----------------------|------------------------|----------------------------------|------------|---------------------------------------|--|--|--|--|--|
| TIME             | LAPSED TIME           | PR                    | ESSURE                 | PROD. ZONE                       |            |                                       |  |  |  |  |  |
| (hour.date)      | SINCE**               | Upper Completion      | Lower Completion       | EMP.                             |            | REMARKS                               |  |  |  |  |  |
| · <del>-</del> · |                       |                       |                        |                                  | İ          |                                       |  |  |  |  |  |
|                  |                       |                       |                        |                                  |            |                                       |  |  |  |  |  |
|                  |                       |                       |                        |                                  |            |                                       |  |  |  |  |  |
|                  |                       |                       |                        |                                  |            |                                       |  |  |  |  |  |
|                  |                       |                       |                        |                                  |            | -                                     |  |  |  |  |  |
|                  |                       |                       |                        |                                  |            |                                       |  |  |  |  |  |
|                  |                       |                       |                        |                                  |            |                                       |  |  |  |  |  |
|                  |                       |                       |                        |                                  |            |                                       |  |  |  |  |  |
|                  |                       |                       |                        |                                  |            |                                       |  |  |  |  |  |
|                  |                       |                       |                        |                                  |            |                                       |  |  |  |  |  |
|                  |                       |                       |                        |                                  |            |                                       |  |  |  |  |  |
|                  |                       |                       |                        |                                  |            |                                       |  |  |  |  |  |
| Producti         | uring test            | <del></del>           |                        |                                  |            |                                       |  |  |  |  |  |
|                  |                       |                       |                        |                                  |            |                                       |  |  |  |  |  |
| Oil:             | BOPD ba               | sed on                | Bbls. in               | Hours.                           | Grav.      | GOR                                   |  |  |  |  |  |
| Gas:             |                       | MCFPD; T              | ested thru (Orifice or | Meter):                          |            |                                       |  |  |  |  |  |
| Remarks:         |                       |                       |                        |                                  |            |                                       |  |  |  |  |  |
|                  |                       |                       |                        |                                  |            |                                       |  |  |  |  |  |
| I hereby ce      | rtify that the inform | ation herein contains | d is true and comple   | te to the best of my             | knowledge. | 2                                     |  |  |  |  |  |
|                  |                       |                       |                        | 1                                | .1 1 1     | 1                                     |  |  |  |  |  |
| Approved         |                       | NOV 05                | 19989                  | Operator 1                       | surgen To  | sources, Inc                          |  |  |  |  |  |
|                  |                       |                       |                        | 1                                | lor Car    | •                                     |  |  |  |  |  |
| New le           | xico Oil Conservation |                       |                        | By All                           | ers sias   | , , , , , , , , , , , , , , , , , , , |  |  |  |  |  |
|                  |                       |                       | 1                      | •                                | 1- 1       | ) -1                                  |  |  |  |  |  |
| Ву               |                       | Carm Ca               | i latile               | Title                            | Atom Us    | oscial                                |  |  |  |  |  |
|                  | D                     | eputy Oil & Ga        | is inspector           | •                                |            |                                       |  |  |  |  |  |
| Title            |                       | · ·                   |                        | Date                             |            |                                       |  |  |  |  |  |
|                  |                       |                       |                        |                                  |            |                                       |  |  |  |  |  |

## NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

- 1. A maker leaks, and shall be commenced on each multiply completed well within seven days after acrusi completion of the well, and annually thereafter as prescribed by the order authorizing the mutiture 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 tubing have been disturbed. 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 leakes sets, the operator shall notify
  the Division in writing of the exact time the test is so 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. For points shall remain shut-in until the well-head pressure in each has separated, 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 abut-in. Such test shall be continued for seven days if the case of a gall 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 the lack of a pipeline connection the flow period shall be three hours.
- Foilowing complement 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. Proceedings 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 flow period, at least one time during each flow period (at approximately the midway pount) 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 ethecked 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-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gap. 2006 within 15 days.
- deadweight pressures as required above deep had to shall be filter Aziec District Office of the after completion of the Aziec District Office of the after completion of the Aziec District Office of the after completion of the Aziec District Office of the after completion of the Aziec District Office of the after completion of the Aziec District Office of the after completion of the Aziec District Office of the after Completion of the Aziec District Office of the after Completion of the Aziec District Office of the Aziec District Office of the Aziec District Office of the after Completion of the Aziec District Office Of