STATE OF NEW MEXICO

ENERGY and MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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

Page 1 Revised 10/01/78

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

| Operator | UNION | OIL OF CALIFORNIA | /dba UNOCAL | Lease RIN | CON UNIT | | Well No. 85 | | |
|--|----------------|---------------------|--------------------------|--|--|---------------------------------------|--------------------------------|-------------------------|--|
| Location | | | | | | | | | |
| of Well: | Unit H | Sec. 15 T | wp. <u>27N</u> | Rge07V | <u></u> | Cou | nty RIO ARI | RIBA | |
| NAME OF RESERVOIR OR POOL | | | TYPE OF PI (Oil or Ga | | METHOD OF PROD. (Flow or Art. Lift) | | PROD. MEDIUM (Tbg. or Csg.) | | |
| Upper Completion | SOUTH | BLANCO PICTURED | CLIFFS | GAS | FI | ow | | TUBING | |
| Lower | | | | | | 12011 | | TOBING | |
| Completion BLANCO MESA VERDE | | | | GAS | FLOW | | TUBING | | |
| - | ī | | PRE-FLO | OW SHUT-IN PR | ESSURE DATA | . | | | |
| Hour, date shut-in Upper Completion 2:15 07-24-97 | | Length of time shut | Length of time shut-in | | St press, psig CSG 175 | | Stabilized? (Yes or No) YES | | |
| Lower Completion | Hour, date shi | | Length of time shut | i-in | TBG 175 SI press. psig TBG 250 | | Stabilized? (Yo | es or No) | |
| , • | | | • | ELON MEGEN | • | · · · · · · · · · · · · · · · · · · · | | N | |
| Commenced a | at (hour date) | 11:00a.m. | 07-29-97 | FLOW TEST N | | laner or I guest's | LOWER | | |
| Commenced at (hour, date)* 11:00a.m. TIME LAPSED TIME | | PRESSURE | | Zone producing (Upper or Lower)* PROD. ZONE | | REMARKS | | | |
| (hour, d | | SINCE* | Upper Completion | Lower Completion | ТЕМР. | | | | |
| 11:30 a.n 07-30-97 | | 24 hrs | CSG 180 TBG 180 | TBG 200 | 69 ^{.°} | | Q = 52 n | ncf | |
| 10:a.m. 07-31-97 | | 48 hrs | CSG 180 TBG 180 | TBG 200 | 64 ° | e og cesterage a | Q = 30 m | ncf | |
| | | | | | . | | | | |
| | | | | | | 回国 | CEIN | /EM | |
| | | | | | | Int . | UG 1 3 19 | 97 | |
| | | | | | | 0[[| . COM. | DEV. | |
| Production ra | ate during te | st | | | | | णिशित | 5) | |
| Oil: | | BOPD ba | ased on | Bbls. in | Hours. | Gr | av. | GOR | |
| Gas: | | | MCFPD; Testa | ed thru (Orifice or Mo | eter): | | | | |
| | | | MID-TEST SHI | UT-IN PRESSUR | E DATA | | | | |
| | | | | Length of time shut-in | | SI press. psig | | Stabilized? (Yes or No) | |
| Upper Completion | | | congui oi une snaca | | CSG TBG | | Stabilized? (Ye | s or MO) | |
| Lower Hour, date shut-in Completion | | | Length of time shut-in | | SI press. psig | | Stabilized? (Yes | s or No) | |

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST FLOW TEST NO. 1

| ommenced at (hour, date |)* | | | Zene producing (Upper or Low | er)* UPPER | |
|-------------------------|--------------------------|---|---------------------------|------------------------------|----------------------|--|
| TIME | LAPSED TIME SINCE* | PRESSURE | | PROD. ZONE | REMARKS | |
| (hour, date) | | Upper Completion | Lower Completion | TEMP. | | |
| | | CSG | 1 | | | |
| | | T₿G | TBG | | | |
| | | C S G | i i | | | |
| | | TBG | TBG | | | |
| _ | i | C S G | i i | i | | |
| | | TBG | TBG | | | |
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| | | | | | | |
| duction rate during | test | | | | | |
| | D 0 D 1 | | | | | |
| | BO P D b | ased on | Bbls. in | Hours | Grav. GOR | |
| :: | | MCEDD: Tom | tod then (Osifica as 3.f. | 4A. | | |
| · | | MICFFD, Test | ted thru (Orifice or Me | ter): | | |
| narks: | | | | | | |
| | | | | | | |
| | | | | | | |
| rehy certify that the | information herein cor | stained is true and com- | nete to the hest of my i | zno wie dne | | |
| proved | | 1997 19 | | | ALIFORNIA/dba UNOCAL | |
| | nservation Division | *************************************** | | | | |
| | | | D | mike - | 211 | |
| | O. Bring P. | Lam's a | Ву | Mike Tabet | rais | |
| | Jeruny . | | | | | |
| | Johnny R. Deputy Oil & C | as Inspector | Title | Production Foreman | | |
| | | | | | | |
| હ | • • | · | | August 15th, 1997 | | |

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

- A packer leakage test shall be commenced on each multiply opmpleted well within seven days after actual completion of the well, and annually thereafter as prescribed by the profer authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following resompletion and/or chemical or fracture treatment, and whenever remedial work has then done on a field 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 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 off the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.
- For Flow Test No.1, one zone of the dual completion shall be produced at the normal late of production while the other zone remains shut-in. Such test shall be continued for ever days in the case of a gas well and for 24 hours in the case of an bill 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.
- Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with paragraph 3 above.
- Fkw 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 test: 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 well is a gais-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone drily, with deadweight pressures as a 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 Aztec 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)