NEW MEXICO
OIL CONSERVATION COMMISSION

4-1-56

PACKER LEAKAGE TEST

Operator Tidewater Oil Company Pool (Upper Completion) Drinkard
Lease A. B. Coates "C" Well 12 Pool (Lower Completion) Fusselman
Location: Unit K, S. 24, T 25S, R 37E, Lea County, N. M.

Pre-Test Shut-In

	Upper Completion	Lower Completion
Shut-in at (hour, date)	8:00 A.M. 8-1-58	9:45 A.M. 8-1-58
Pressure stabilized at (hour, date)	4:00 A.M. 8-2-58	5:00 A.M. 8-2-58
Length of time required to stabilize (hours)	19	18

Flow Test No. 1

Test commenced at (hour, date) 7:20 A.M. 8-2-58. Choke size 9/64"
Completion producing Fusselman Completion shut-in Drinkard

	Upper Completion	Lower Completion
Stabilized pressure at beginning of test	859 psi	622 psi
Maximum pressure during test	879 psi	582 psi
Minimum pressure during test	868 psi	448 psi
Pressure at end of test	878 psi	581 psi
Maximum pressure change during test	20 psi	174 psi
Oil flow rate during test: 132 BOPD based on 66 BO in		12 hours.
Gas flow rate during test: 64 MCFPD based on 32 MCF in		12 hours.

Mid-Test Shut-In

	Upper Completion	Lower Completion
Shut-in at (hour, date)		8:00 P.M. 8-2-58
Pressure stabilized at (hour, date)		5:00 A.M. 8-3-58
Length of time required to stabilize (hours)		9 hrs.

Flow Test No. 2

Test commenced at (hour, date) 7:20 A.M. 8-3-58. Choke size 6/64"
Completion producing Drinkard Completion shut-in Fusselman

	Upper Completion	Lower Completion
Stabilized pressure at beginning of test	869 psi	624 psi
Maximum pressure during test	646 psi	624 psi
Minimum pressure during test	498 psi	598 psi
Pressure at end of test	626 psi	598 psi
Maximum pressure change during test	371 psi	26 psi
Oil flow rate during test: 44.2 BOPD based on 22.1 BO in		12 hours.
Gas flow rate during test: 62.4 MCFPD based on 31.2 MCF in		12 hours.

Test performed by Claude L. Marple Title Senior Field Engineer

Witnessed by James A. Tilton Title Switcher

REMARKS:

NOTE: Recording gauge pressure charts, test data sheet, and a graphic depiction of all phases of the test shall be submitted with this report.

AFFIDAVIT:

I HEREBY CERTIFY that all conditions prescribed by Oil Conservation Commission of the State of New Mexico for this packer leakage test were complied with and carried out in full, and that all dates and facts set forth in this form and all attached material are true and correct.

V. P. Thompson For Tidewater Oil Company
(Representative of Company Making Test) (Company Making Test)

SWORN TO AND SUBSCRIBED before me this the 8th day of August, 19 58

Harold E. Wilson Jr.
Notary Public in and for the County of Lea
State of New Mexico.

(OVER)

INSTRUCTIONS
(SOUTHEAST NEW MEXICO ONLY)

1. At least 24 hours prior to the commencement of this test, the operator shall notify the District Office of the Oil Conservation Commission in writing of the exact time said test is to be commenced.

2. The packer leakage test shall commence with both sides of the completion shut-in. Both sides of the completion must be shut-in a sufficient length of time to allow for complete stabilization of both wellhead pressures, and for a minimum of 2 hours thereafter- this minimum of 2 hours shut-in must show on the charts of the pressure recorder and also must appear on the data sheet.

3. For Flow Test No. 1, one side of the dual completion shall be produced with the other side shut-in. Such test shall be continued until the flowing wellhead pressure has become stabilized and for a minimum of 2 hours thereafter, and shall be at a rate of flow approximating the normal rate of flow for the zone being produced.

4. Following the completion of flow test No. 1, the well will again be shut-in, and remain so until the wellhead pressures have again become stabilized and for a minimum of 2 hours thereafter.

5. Flow Test No. 2 shall be performed with the previously shut-in side of the dual completion flowing and with the flowing side of the completion used in test number 1 remaining shut-in. This test shall be conducted exactly as outlined under Flow Test No. 1, and must be performed even though no leak was indicated by Flow Test No. 1.

6. All pressures, throughout the entire test, must be continuously measured and recorded with recording pressure gauges.

7. The accuracy of the recording gauges shall be checked at regular intervals throughout the test with a dead weight test gauge, and such readings shall be recorded on the test data sheet provided.

8. For any well on which the wellhead pressures will not stabilize in (24) twenty four hours or less, the minimum producing or shut-in time allowed for stabilization shall be (24) twenty-four hours.

9. This form must be completed and filed in duplicate with the District Office of the Oil Conservation Commission within 15 days following the completion of the testing, and must be accompanied by:

   a. all of the charts, or copies thereof, used on the pressure recorders during the test.

   b. the test data-sheet (s), or copies thereof, required under paragraph 7 above.

   c. a graph depicting the pressures and their changes, for both sides of the completion over the entire test.

10. This packer leakage test shall be performed upon dual completion of any new wells so approved by the Commission. This test shall also be required each year during the annual GOR test for the lowermost oil zone or oil pool so concerned. The Commission may also request packer leakage tests at any time they feel that a new test is desirable.