

NEW MEXICO
OIL CONSERVATION COMMISSION

4-1-56

PACKER LEAKAGE TEST

HOBBS OFFICE 01

Operator Sunray Mid-Continent Oil Company Pool (Upper Completion) Wolfcamp
Lease New Mexico State "F" Well 2 Pool (Lower Completion) Pennsylvanian
Location: Unit 0, S. 1, T. 10N, R. 12E, Lea County, N.M. 10

Pre-Test Shut-In

Shut-in at (hour, date)..... 12:00 Noon (12-3-57) Upper Completion Lower Completion 12:00 Noon (12-3-57)
Pressure stabilized at (hour, date)..... Unknown Unknown
Length of time required to stabilize (hours)..... Used 2 hour minimum period

Flow Test No. 1

Test commenced at (hour, date) 1:30 PM (12-6-57) Choke size 16/64"
Completion producing Pennsylvanian Completion shut-in Wolfcamp
Stabilized pressure at beginning of test..... 1940 Chart psi Upper Completion Lower Completion 1850 Chart psi
Maximum pressure during test..... 1940 psi 1850 psi
Minimum pressure during test..... 1940 psi 120 psi
Pressure at end of test..... 1940 psi 205 psi
Maximum pressure change during test..... 0 psi 930 psi
Oil flow rate during test: 174 BOPD based on 145 BO in 20 hours.
Gas flow rate during test: 141.14 MCFPD based on 117,650 MCF in 20 hours.

Mid-Test Shut-In

Shut-in at (hour, date)..... 12:00 Noon (12-3-57) Upper Completion Lower Completion 9:30 AM (12-7-57)
Pressure stabilized at (hour, date)..... - Nil set
Length of time required to stabilize (hours)..... - Used 24 Hr minimum

Flow Test No. 2

Test commenced at (hour, date) 12:00 Noon (12-8-57) Choke size 16/64"
Completion producing Wolfcamp Completion shut-in Pennsylvanian
Stabilized pressure at beginning of test..... 1940 Chart psi Upper Completion Lower Completion 850 Chart psi
Maximum pressure during test..... 1940 psi 900 psi
Minimum pressure during test..... 1100 psi 850 psi
Pressure at end of test..... 1100 psi 900 psi
Maximum pressure change during test..... 840 psi 20 psi
Oil flow rate during test: 318 BOPD based on 109.31 BO in 7 3/4 hours.
Gas flow rate during test: 1509.19 MCFPD based on 134,500 MCF in 8 1/2 hours.

Test performed by Joe A. Coleman Title P.M., N.M., Cert. No. 2208

Witnessed by None Title _____

REMARKS: Separator started freezing before Wolfcamp was completely stabilized.
Packer gave no indication of leakage.

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.

Joe A. Coleman For Sunray Mid-Continent Oil Company
(Representative of Company Making Test) (Company Making Test)

SWORN TO AND SUBSCRIBED before me this the 12th day of December, 1957

Comm. Exp. 4-25-60

Dorothy A. Kelly
Notary Public in and for the County of Lea
State of N. Mex.

(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.