

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator El Paso Natural Gas Company Lease San Juan 27-5 Unit Well No. 51 (PM)
Location
of Well: Unit K Sec. 28 Twp. 27 Rge. 5 County Rio Arriba

Name of Reservoir or Pool Type of Prod. Method of Prod. Prod. Medium
(Oil or Gas) (Flow or Art. Lift) (Tbg. or Csr.)

Upper Completion	PC	Gas	Flow	Tbg.
Lower Completion	MV	Gas	Flow	Tbg.

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date Shut-in	6-20-82	Length of time shut-in	3 Days	SI press. psig	399	Stabilized? (Yes or No)
Lower Completion	Hour, date Shut-in	6-20-82	Length of time shut-in	3 Days	SI press. psig	524	Stabilized? (Yes or No)

FLOW TEST NO. 1

Commenced at (hour, date)* 6-23-82 Zone producing (Upper or Lower):

Time (hour, date)	Lapsed time since*	Pressure		Prod. Zone Temp.	Remarks
		Upper Compl.	Lower Compl.		
6-21-82	1 Day	390	518		
6-22-82	2 Day	395	521		
6-23-82	3 Days	399	524		
6-24-82	1 Day	403	449		
6-25-82	2 Days	405	350		

Production rate during test

Oil: 404 BOPD based on MCFPD Bbls. in Tested thru (Orifice or Meter): Hrs. Meter Grav. GOR

MID-TEST SHUT-IN PRESSURE DATA

Upper Completion	Hour, date Shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Lower Completion	Hour, date Shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)

FLOW TEST NO. 2

Commenced at (hour, date)** Zone producing (Upper or Lower):

Time (hour, date)	Lapsed time since **	Pressure		Prod. Zone Temp.	Remarks
		Upper Compl.	Lower Compl.		

Production rate during test

Oil: MCFPD BOPD based on Tested thru (Orifice or Meter): Bbls. in Grav. Hrs. GOR

REMARKS:

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved: JUL 07 1982 19
Oil Conservation Division
Original Signed by CHARLES JACKSON

Operator El Paso Natural Gas Company
By A. E. McNally
Title Area Production Engineer
Date July 7, 1982

File DEPUTY OIL & GAS INSPECTOR, DIST. #3

100-THEIST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

1. A Flow Test shall not shall be commenced on each multiply completed well until after seven days after completion of the well, and annually thereafter at prescribed intervals or as approved by the Division. Such tests shall also be performed on all producing completions within seven days of a change resulting from the presence of chemical or hydraulic treatments.
2. In addition, a shut-in test may be conducted on a well during which the packer leakage test is being disturbed. Tests shall also be taken at any time that an operator deems it desirable or when requested by the Division.
3. 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 will be conducted. The test operators shall also be so notified.
4. 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 until the well-head pressure in such has stabilized, provided however that flow need not remain shut-in more than seven days.
5. For Flow Test No. 1, one zone of the dual completion shall be produced at the desired rate of production while the other zone remains shut-in. Production shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Within 1% on an initial packer leakage test, a leak well is deemed closed to the atmosphere due to the lack of a pressure connection the flow period shall be three hours.
6. Following completion of Flow Test No. 1, the well shall again be shut-in in accordance with paragraph 3 above.
7. Flow Test No. 2 shall be conducted even though no leak was indicated during the first test. 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 open while the zone which was previously shut-in is produced.

7. Pressures for gas-zone tests must be measured in each zone with a deadweight pressure gauge at time intervals of 15 minutes for gas-zone tests. Immediately prior to the beginning of each 15-minute test, the pressure must be measured at the beginning of the test, and at the end of the 15-minute interval during the first hour of the test, and at the end of each hour thereafter. In addition, the pressure must be measured at the beginning of each 15-minute period, and at the end of each 15-minute period for the entire duration of each flow period. At least one pressure measurement must be taken at the beginning of each flow period, at least one measurement must be taken at the end of each flow period, and at least one measurement must be taken at the end of each flow period. The number of pressure measurements taken during each flow period may be requested on wells which are being tested in a multi-zone test, or data.

24-hour oil zone tests: All pressure indicators in the engine test, shall be continuously tested and recorded at 15 minute intervals. Pressures gauges, the accuracy of which must be checked at least once a day, at the beginning and once at the end of each test, with a constant pressure gauge. If a well is a diesel oil engine, the 15 minute test, the recording gauge shall be required by the U.S. Coast Guard, at intervals pressures as required above being taken on the six zone.

8. The results of the above-described tests shall be plotted in triplicate within 14 days after completion of the tests. Tests shall be plotted with the Water District Office on a graph having a horizontal axis labeled "NEW Mexico PACKER Leakage Test Form" and a vertical axis labeled "Leakage pressures indicated thereon as well as the flowing temperatures (Leak Zones only) and gravity and GOR (oil zones only) for each zone of the curve for each zone of each test shall be constructed on the reverse side of the Packer Leakage Test Form with all necessary pressure points and indicated thereon. For oil zones, the pressure curve should also show indicated key pressure changes which may be plotted on the indicated blank charts. These key pressure changes should also be indicated on the front of the Packer Leakage Test Form.

