STATE OF NEW MEXICO
ENERGY and MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

Revised 10/01/78

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

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Hallwood Petroleum Inc. Lease Yager Well No. 3

Location of Well: Unit N Sec. 3 Twp. 31N Rge. 7W County San Juan

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (Oil or Gas)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	Fruitland Coal	Gas	Flow	TBG
Lower Completion	Pictured Cliffs.	Gas	Flow	TBG

PRE-FLOW SHUT-IN PRESSURE DATA

	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Upper Completion	5-28-91 1:00pm	6 days	148 TP / 420 CP	Yes
Lower Completion	5-28-91 1:00pm	6 days	704 SP / —	Yes

FLOW TEST NO. 1

Commenced at (hour, date)* 6-3-91 2:00 pm. Zone producing (Upper or (Lower)): P.C.

TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE Upper Completion	PRESSURE Lower Completion	PROD. ZONE TEMP.	REMARKS
1:00p 6-6-91	71 HRS.	154 TP / 426 CP	350 TP	66°F	
1:15 6-8-91	120 HRS.	155 TP / 432 CP	342 TP.	70°F	

Production rate during test

Oil: _____ BOPD based on _____ Bbls. in _____ Hours. _____ Grav. _____ GOR _____

Gas: 19 MCFPD; Tested thru (Orifice or (Meter)): 25237

MID-TEST SHUT-IN PRESSURE DATA

	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Upper Completion	1:00pm 6-10-91	4 days	162 TP / 442 CP	
Lower Completion	1:00pm 6-10-91	4 days	740 CP	(Yes)

(Continue on reverse side)

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

FLOW TEST NO. 2

Commenced at (hour, date)** 6-10-91 10:00AM — Zone producing (Upper or Lower): LOWER

TIME (hour, date)	LAPSED TIME SINCE **	PRESSURE Upper Completion	PRESSURE Lower Completion	PROD. ZONE TEMP.	REMARKS
6-14-91 10:15AM	96¼ HRS.	162TP/442CP	740	58° F	Opened To atmosphere ps. dead Flowing water
6-[illegible] 10:30	96½	2[illegible]/365	740	58°	flowing water
6-[illegible] 10:45	96¾	2TP/352	740	58°	flowing water rate 5 BBL per HR.
6-[illegible] 11:00	97	3TP/340	741	61	flowing water (0 gas)
12 noon	98 HR.	3TP/320	742	62°	flowing Water
1:00PM	99 HRS	3TP/315	743	65°	flowing water SHUT In

Production rate during test

Oil: 0 BOPD based on _____ Bbls. in _____ Hours. _____ Grav. _____ GOR _____

Gas: 0 MCFPD: Tested thru (Orifice or Meter): 85038

Remarks: Flowed water and No gas From Fruitland Coal, upper Zone. rate (5 BBL per Hr)

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

Approved JUL 05 1991 19___

New Mexico Oil Conservation Division

Original Signed by CHARLES GHOLSON

By _____

Title DEPUTY OIL & GAS INSPECTOR, DIST. #3

Operator Hallwood Petroleum Inc.

By Doug Elsworth

Title Production Operator

Date 6-14-91

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

1. A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced 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.

2. 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 of 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.

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 shut-in. Such test shall be continued for seven days in the case of a gas 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.

5. Following completion 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. 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 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 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 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 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).