

STATE OF NEW MEXICO
ENERGY and MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

Page
Revised 10/01

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

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator AMOCO PRODUCTION CO. Lease Krause Well No. Fed 1
Location of Well: Unit M Sec. 32 Twp. 28-N Rge. 11-W County SAN JUAN

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (Oil or Gas)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tub. or Cas.)
Upper Completion	KRAUSE FED. 1 GALLUP	OIL?	FLOW (T/A)	TUBING
Lower Completion	KRAUSE FED. 1 DAKOTA	GAS	FLOW	TUBING

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in <u>06/14/91</u> (GL)	Length of time shut-in MONTHS - YEARS	SI press. peng <u>0 TUB.</u> <u>251 CAS.</u>	Stabilized? (Yes or No) YES
Lower Completion	Hour, date shut-in <u>06/14/91</u> (DK)	Length of time shut-in 48 HRS	SI press. peng <u>686 TUB.</u> <u>NA - CAS</u>	Stabilized? (Yes or No) NO

FLOW TEST NO. 1

Commenced at hour, date		Zone producing (Upper or Lower)		REMARKS	
TIME (hour, date)	LAPSED TIME SINCE*	GALLUP PRESSURE DAKOTA			PROD. ZONE TEMP.
		Upper Completion	Lower Completion		
6/10	DAY 1				BOTH ZONES SHUT IN
6/11	DAY 2				BOTH ZONES SHUT IN
6/12 2:00 PM	DAY 3	0 TUB. 251 CAS.	411 TUB.		BOTH ZONES SHUT IN
6/13 9:30 AM	DAY 4	0 TUB. 251 CAS.	676 TUB.		Both Zones Shut in
6/14 12:00	DAY 5	0 TUB. 251 CAS.	686 TUB.		Both Zones Shut in
6/15 1:00	DAY 6	0 TUB. 251 CAS.	424 TUB.		flowed lower zone

6/16 → Production rate during test 0 TUB. 413 TUB.
Oil: 2 BOPD based on 7 Bbls. in 8 Hours. 1 Grav. 1 GOR 1
Gas: 62 6/14-6/15 MCFPD; Tested thru (Orifice or Meter): ORIFICE PLATE 105-52

MID-TEST SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in <u>6/13/91</u> 9:30 AM	Length of time shut-in MONTHS	SI press. peng <u>0 TUBING</u> <u>251 CASING</u>	Stabilized? (Yes or No) YES
Lower Completion	Hour, date shut-in <u>6/13/91</u> 9:30 AM	Length of time shut-in 24 HOURS	SI press. peng <u>676 TUB.</u>	Stabilized? (Yes or No) NO

AUG 30 1991

OIL CON. DIV.
DIST. 3

(Continue on reverse side)

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

FLOW TEST NO. 2

Commenced at (Date, Day & H)					
TIME (Hour, Date)	LAPSED TIME SINCE # 1	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower Completion		

Production rate during test

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

Gas: _____ MCFPD: Tested thru (Orifice or Meter): _____

Remarks: _____

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

Approved AUG 30 1991 19 _____
New Mexico Oil Conservation Division

By _____ Original Signed by CHARLES GHOLSON

Title DEPUTY OIL & GAS INSPECTOR, DIST. #3

Operator AMOCO PRODUCTION CO.

By [Signature]

Title FIELD TEST CO-ORDINATOR

Date 8/23/91

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

1. A packer leakage test shall be commenced on each multiple completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such test 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 where 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 on 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 on 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. Pressure for gas-oil tests must be measured on each zone with a dual 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, hourly intervals thereafter, including one pressure measurement immediately prior to conclusion of each flow period. 7-day test: immediately prior to the beginning of flow period, at least one time during each flow period (or approximately the midpoint) and immediately prior to the conclusion of each flow period. Other pressure be taken as desired, or may be requested on wells which have previously shown unstable test data.
- 24-hour oil zone test: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which is checked at least twice, once at the beginning and once at the end of each test, 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 pressure as required being taken on the gas zone.
8. The results of the above-described tests shall be filed in triplicate within 15 day completion of the test. Tests shall be filed with the Area District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form 2 10-01-78 with all deadweight pressures indicated thereon as well as the 8 measurements (gas zones only) and gravity and GOR (oil zones only).