

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 COMPANY Lease GALLEGOS CANYON UNIT "I" Well No. 181E
Location of Well: Unit H Sec. 34 Twp. 29 Rge. 12 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	GALLUP	OIL	ABANDONED	CSG
Lower Completion	DAKOTA	GAS	FLOW	TBG

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	11-9-86	5 days	260	yes
Lower Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	11-9-86	3 days	480	yes

FLOW TEST NO. 1

Commenced at (hour, date)* 11-12-86				Zone producing (Upper or Lower) Lower	
TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower Completion		
11-9-86	Day 1	260	480		Both zones SI
11-10-86	Day 2	260	480		Both zones SI
11-11-86	Day 3	260	480		Both zones SI
11-12-86	Day 4	260	480		Both zones SI
11-13-86	Day 5	260	395		Lower zone Flow
11-14-86	Day 6	260	370		Lower zone Flow

Production rate during test

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

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

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)

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OIL CONSERVATION DIV.
SANTO

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

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 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 _____
New Mexico Oil Conservation DivisionBy _____
Original Signed by CHARLES GHOLSONTitle _____
DEPUTY OIL & GAS INSPECTOR, DIST. #3Operator Amoco Production CompanyBy Ralph H. MontoyaTitle Measurement TechDate 11-26-86

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. The date for Flow Test No. 2 shall 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 hourly intervals thereafter, including one pressure measurement immediately prior to conclusion of each flow period. 7-day tests: immediately prior to the beginning of flow period, at least one time during each flow period (at approximately the midpoint) and immediately prior to the conclusion of each flow period. Other pressures 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, 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 being taken on the gas zone.

8. The results of the above-described tests shall be filed in triplicate within 15 days of completion of the test. Tests shall be filed with the Asset District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form No. 10-01-78 with all deadweight pressures indicated thereon as well as the flow temperatures (gas zones only) and gravity and GOR (oil zones only).

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NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator AMOCO PRODUCTION COMPANY Lease GALLEGOS CANYON UNIT "I" Well No. 181E
Location of Well: Unit H Sec. 34 Twp. 29 Rge. 12 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	GALLUP	OIL	ABANDONED	CSG
Lower Completion	DAKOTA	GAS	FLOW	TBG

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in	Length of time shut-in	St. press. psig	Stabilized? (Yes or No)
	9-27-87	—	0	no
Lower Completion	Hour, date shut-in	Length of time shut-in	St. press. psig	Stabilized? (Yes or No)
	9-27-87	—	0	no

FLOW TEST NO. 1

Commenced at (hour, date)*		PRESSURE		Zone producing (Upper or Lower)	REMARKS
TIME (hour, date)	LAPSED TIME SINCE*	Upper Completion	Lower Completion	PROD. ZONE TEMP.	
9/27/87	Day 1	0	0	X	Both zones unable to produce
9/28/87	Day 2	0	0		Both zones unable to produce
9/29/87	Day 3	0	0		Both zones unable to produce
9/30/87	Day 4	0	0		Both zones unable to produce
10/1/87	Day 5	0	0		Both zones unable to produce
10/2/87	Day 6	0	0		Both zones unable to produce

Production rate during test

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

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

MID-TEST SHUT-IN PRESSURE DATA

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

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OCT 26 1987
OIL CON. DIV.
DIST.

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NORTHWEST NEW MEXICO PACKER LEAKAGE TEST

FLOW TEST NO. 2

Commenced at (hour, date) **		PRESSURE		Zone producing (Upper or Lower)	REMARKS
TIME (hour, date)	LAPSED TIME SINCE **	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 OCT 26 1987 19 _____
New Mexico Oil Conservation Division

Original Signed by CHARLES GHOLSON

By _____
Title DEPUTY OIL & GAS INSPECTOR, DIST. #3

Operator Amoco Production Co.
By R. U. Montoya
Title Measurement Technologist
Date 10-21-87

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 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 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 date the test is to be commenced. Offset operations 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. Unless, 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, to zero-

out the previously produced zone shall remain shut-in while the zone which was by shut-in is produced.

7. Pressures for gas zone tests must be measured on each zone with a pressure gauge at time intervals as follows: 3 hour tests: immediately prior to beginning of each flow period, at fifteen-minute intervals during the first hour, then hourly intervals thereafter, including one pressure measurement immediately prior to 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 10:00 a.m. and immediately prior to the conclusion of each flow period. Other points) and immediately prior to the conclusion of each flow period. Other points may be taken as desired, or may be requested on wells which have previously furnished test data.

24-hour oil zone tests: all pressures, throughout the entire test, shall be measured and recorded with recording pressure gauges the accuracy of which shall be checked at least twice, once at the beginning and once at the end of each flow period. If a well is a gas-oil or an oil-gas dual completion, a deadweight pressure gauge shall be required on the oil zone only, with deadweight pressure gauge being taken on the gas zone.

8. The results of the above detailed tests shall be filed in triplicate with the completion of the test. Tests shall be filed with the Asset Division Office of the Oil Conservation Division on Northwest New Mexico Packer Leakage Test 10-01-78 with all deadweight pressure indicated direction as well as zone (gas or oil zone only) and gravity and GOR (oil zone only).

STATE OF NEW MEXICO
ENERGY and MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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DIST. 3

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NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator AMOCO PRODUCTION COMPANY Lease GALLEGOS CANYON UNIT "I" Well No. 181E
Location of Well: Unit H Sec. 34 Twp. 29 Rge. 12 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	GALLUP	OIL	ABANDONED	CSG
Lower Completion	DAKOTA	GAS	FLOW	TBG

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	2-20-89	5 days	275	yes
Lower Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	2-20-89	3 days	310	yes

FLOW TEST NO. 1

Commenced at (hour, date)* 2-23-89				Zone producing (Upper or Lower): Lower	
TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower Completion		
2/20/89	Day 1	275	200		Both zones SI
2/21/89	Day 2	275	275		Both zones SI
2/22/89	Day 3	275	295		Both zones SI
2/23/89	Day 4	275	310		Both zones SI
2/24/89	Day 5	275	250		Lower zone Flow
2/25/89	Day 6	275	240		Lower zone Flow

Production rate during test

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

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

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)

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NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

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 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 MAR 14 1989 19 _____
New Mexico Oil Conservation DivisionBy _____ Original Signed by CHARLES GHOLSON
Title DEPUTY OIL & GAS INSPECTOR, DIST. #3Operator Amoco Production Co.
By Brenda Lombetta
Title Staff Asst.
Date 3/13/89

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 operations 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. The test 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 dead 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 (at 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 questionable 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 pressures as above being taken on the gas zone.

8. The results of the above-detailed tests shall be filed in triplicate within 15 days of completion of the test. Tests shall be filed with the Asset District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form 10-01-78 with all dead-weight pressures indicated thereon as well as the temperatures (gas zones only) and gravity and GOR (oil zones only).