

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

Oil Conservation Division

Northwest New Mexico Packer-Leakage Test

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Revised June 10, 2003

Operator Hilcorp Energy Company Lease Name VAUGHN Well No. 4

Location of Well: Unit Letter O Sec 29 Twp 026N Rge 006W API # 30-039-06283

	Name of Reservoir or Pool	Type of Prod	Method of Prod	Prod Medium
Upper Completion	PC	Gas	Flow	Tubing
Lower Completion	CH	Gas	Flow	Tubing

Pre-Flow Shut-In Pressure Data				
Upper Completion	Hour, Date, Shut-In 7/18/2025	Length of Time Shut-In 299	SI Press. PSIG 80	Stabilized?(Yes or No) Yes
Lower Completion	Hour, Date, Shut-In 7/18/2025		SI Press. PSIG 110	Stabilized?(Yes or No) Yes

Flow Test No. 1					
Commenced at: 7/23/2025			Zone Producing (Upper or Lower): LOWER		
Time (date/time)	Lapsed Time Since*	PRESSURE		Prod Zone Temperature	Remarks
		Upper zone	Lower zone		
7/23/2025 8:58 AM	8	80	110		Starting test
7/23/2025 9:37 AM	9	80	64		Hit 20% crossover, 30 mins Started
7/23/2025 9:43 AM	9	80	63		5 mins pressure
7/23/2025 9:47 AM	9	80	63		10 min pressure
7/23/2025 9:52 AM	9	80	63		15 min pressures
7/23/2025 9:58 AM	9	80	62		20 min pressure
7/23/2025 10:02 AM	10	80	62		25 min pressure
7/23/2025 10:08 AM	10	80	61		30 min pressure, flow test complete
7/24/2025 12:53 PM	36	80	61		Day 1 Pressures
7/25/2025 10:44 AM	58	80	63		Day 2 Pressures
7/26/2025 7:10 AM	79	80	64		Day 3 Pressures
7/27/2025 7:37 AM	103	81	63		Day 4 Pressures
7/28/2025 8:21 AM	128	81	61		Day 5 Pressures
7/29/2025 1:06 PM	157	81	60		Day 6 Pressures
7/30/2025 11:55 AM	179	81	62		Day 7 Pressure. Test Complete

Production rate during test

Oil: _____ BOPD Based on: _____ Bbls. In _____ Hrs. _____ Grav. _____ GOR _____

Gas _____ MCFPD Test 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		SI Press. PSIG	Stabilized?(Yes or No)

(Continue on reverse side)

Flow Test No. 2					
Commenced at:			Zone Producing (Upper or Lower)		
Time (date/time)	Lapsed Time Since*	PRESSURE		Prod Zone Temperature	Remarks
		Upper zone	Lower zone		

Production rate during test

Oil: _____ BOPD Based on: _____ Bbls. In _____ Hrs. _____ Grav. _____ GOR _____

Gas _____ MCFPD; Test thru (Orifice or Meter) _____

Remarks:

7 days of pressures starts 7/24/25

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

Approved: _____ 20 _____

New Mexico Oil Conservation Division

By: _____

Title: _____

Operator: Hilcorp Energy Company

By: Kaden Peace

Title: Multi-Skilled Operator

Date: Wednesday, July 30, 2025

NORTHWEST NEWMEXICO 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 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).

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 490394

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 490394
	Action Type: [UF-PLT] Packer Leakage Test (NW) (PACKER LEAKAGE TEST (NW))

CONDITIONS

Created By	Condition	Condition Date
jdurham	None	9/12/2025