

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 THOMPSON Well No. 7A

Location of Well: Unit Letter F Sec 34 Twp 031N Rge 012W API # 30-045-23320

| | Name of Reservoir or Pool | Type of Prod | Method of Prod | Prod Medium |
|------------------|---------------------------|--------------|-----------------|-------------|
| Upper Completion | FRS | Gas | Artificial Lift | Tubing |
| Lower Completion | MV | Gas | Flow | Tubing |

Pre-Flow Shut-In Pressure Data

| | | | | |
|------------------|----------------------------------|------------------------------|-----------------------|-------------------------------|
| Upper Completion | Hour, Date, Shut-In 5/10/2021 | Length of Time Shut-In 85 | SI Press. PSIG 200 | Stabilized?(Yes or No) Yes |
| Lower Completion | Hour, Date, Shut-In 5/10/2021 | | SI Press. PSIG 108 | Stabilized?(Yes or No) Yes |

Flow Test No. 1

| Commenced at: 5/13/2021 | | Zone Producing (Upper or Lower): UPPER | | | |
|-------------------------|-----------------------|--|------------|--------------------------|---------------------|
| Time (date/time) | Lapsed Time Since* | PRESSURE | | Prod Zone Temperature | Remarks |
| | | Upper zone | Lower zone | | |
| 5/13/2021 12:07 PM | 12 | 200 | 108 | | started vent to pit |
| 5/13/2021 12:12 PM | 12 | 85 | 108 | | Crossover met |
| 5/13/2021 12:17 PM | 12 | 50 | 108 | | |
| 5/13/2021 12:22 PM | 12 | 30 | 108 | | |
| 5/13/2021 12:27 PM | 12 | 20 | 108 | | |
| 5/13/2021 12:32 PM | 12 | 10 | 108 | | |
| 5/13/2021 12:37 PM | 12 | 5 | 108 | | |
| 5/13/2021 12:42 PM | 12 | 5 | 108 | | |
| 5/13/2021 1:25 PM | 13 | 55 | 108 | | 30 min Build |

Production rate during test

Oil: _____ BPOD 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)

Northwest New Mexico Packer-Leakage Test

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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: _____ BPOD Based on: _____ Bbls. In _____ Hrs. _____ Grav. _____ GOR _____

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

Remarks:

Witness Monica Kuehling NMOCD

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

Operator: Hilcorp Energy Company

By: Ned Hernandez

By: _____

Title: Multi-Skilled Operator

Title: _____

Date: Friday, May 14, 2021

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).

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Action 28226

COMMENTS

| | | | | | |
|--|-------------------------|--|--------|----------------|--------------------------|
| Operator: | | | OGRID: | Action Number: | Action Type: |
| HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX77002 | | | 372171 | 28226 | PACKER LEAKAGE TEST (NW) |
| Created By | Comment | | | Comment Date | |
| kpickford | KP GEO Review 5/14/2021 | | | 05/14/2021 | |

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

CONDITIONS

Action 28226

CONDITIONS OF APPROVAL

| | | | | | | | | | |
|--------------|------------------------|--------------------|------------------|--------|--------|----------------|-------|--------------|--------------------------|
| Operator: | HILCORP ENERGY COMPANY | 1111 Travis Street | Houston, TX77002 | OGRID: | 372171 | Action Number: | 28226 | Action Type: | PACKER LEAKAGE TEST (NW) |
| OCD Reviewer | | | | | | | | | Condition |
| kpickford | | | | | | | | | None |