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

Operator Hilcorp Energy Company

M

Name of Reservoir or Pool

Sec

13

Location of Well: Unit Letter

Oil Conservation Division

Northwest New Mexico Packer-Leakage Test

Twp

Lease Name NORDHAUS

Type

of Prod

031N

Page 1 Revised June 10, 2003

1B

Well No.

30-045-30193

Prod

Medium

009W

Method

of Prod

Rge

API#

Upper Completion Artificial Lift Casing MVGas Lower Completion DK Gas Flow Tubing Pre-Flow Shut-In Pressure Data SI Press. PSIG Stabilized?(Yes or No) Upper Hour, Date, Shut-In Length of Time Shut-In Completion 7/16/2019 80 Yes 240 SI Press. PSIG Stabilized?(Yes or No) Hour, Date, Shut-In Lower Completion 7/16/2019 0 Yes Flow Test No. 1 Commenced at: 7/23/2019 Zone Producing (Upper or Lower): UPPER Prod Zone Time Lapsed Time **PRESSURE** Since* Temperature Remarks (date/time) Upper zone Lower zone Start test @ 1345 on non production zone, MV 7/23/2019 1:42 PM 13 80 0 @ 80, DK 0. Had no change, 0 DK, 80 MV. Shut in non producing zone and returned normally producing zone to service 0 Pressures taken by Joshua Whatley @ 1500 7/24/2019 12:00 AM 24 54 hrs on 7-24-19 0 Pressures taken by Josh Whatley @ 1515 7/25/2019 12:00 AM 48 55 72 57 0 Pressures taken by Josh Whatley, Finished 7/26/2019 12:00 AM test 7-26-19 Production rate during test **GOR** Oil: BPOD Based on: Bbls. In Hrs. Grav. MCFPD; Test thru (Orifice or Meter) Gas DISTRICT III Mid-Test Shut-In Pressure Data SI Press. PSIG Stabilized?(Yes or No) Upper Hour, Date, Shut-In Length of Time Shut-In Completion SI Press. PSIG Stabilized?(Yes or No) Lower Hour, Date, Shut-In Completion (Continue on reverse side)

Northwest New Mexico Packer-Leakage Test

Flow Test No. 2

Commenced at: Zone Producing (Upper or Lower)						
Time (date/time)	Lapsed Time Since*		SURE	Prod Zone Temperature	Remarks	
(date/time)	Since	Upper zone	Lower zone	remperature	Nemans	
Production rate during	test					
Oil: BPOD	Based on:	Bbls. In	Hrs.	G	irav. GOR	
GasMCFPD; Test thru (Orifice or Meter)						
Remarks:						
I hereby certify that the	e information herein c	ontained is true	and complete	to the best of n	nv knowledae.	
Approved: 4 aug		20 /9	Operat			
New Mexico Oil Conservation Division			By:			
lata Dal			-	,		
By: Deputy Oil & Gas Inspector,			Title:			
Title: District #3			Date:	Date: Monday, August 5, 2019		

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

- 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 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).