This form is not to be used for reporting pac≹er leakage tests in Southeast New Mexico

Oil Conservation Division

Northwest New Mexico Packer-Leakage Test

Page 1 Revised June 10, 2003

29 Operator Hilcorp Energy Company Lease Name HARMS WAY FEDERAL 30 Well No. Location of Well: Unit Letter Sec 30 031N Rge 012W API# 30-045-31206 M Twp Method Prod Name of Reservoir or Pool Type of Prod of Prod Medium Upper Completion Tubing Gas Flow FRC Lower Completion DK Gas Flow Tubing Pre-Flow Shut-In Pressure Data Hour, Date, Shut-In SI Press. PSIG Stabilized?(Yes or No) Upper Completion Length of Time Shut-In 7/12/2019 155 Yes 108 Hour, Date, Shut-In SI Press. PSIG Stabilized?(Yes or No) Lower Completion 7/12/2019 153 Yes Flow Test No. 1 Commenced at: 7/15/2019 Zone Producing (Upper or Lower): UPPER Time Lapsed Time **PRESSURE** Prod Zone Since* Remarks (date/time) Temperature Upper zone Lower zone 35 7/16/2019 11:55 AM 155 153 7/16/2019 12:36 PM 36 105 153 pressure passed 20% crossover of 123 pounds in 32 seconds once the well was turned on to production 7/16/2019 12:46 PM 36 89 153 Production rate during test Oil: BPOD Based on: Bbls. In Hrs. Grav. **GOR** MCFPD; Test thru (Orifice or Meter) Gas Mid-Test Shut-In Pressure Data Stabilized?(Yes or No) Hour, Date, Shut-In SI Press. PSIG Upper Completion Length of Time Shut-In SI Press. PSIG Stabilized?(Yes or No) Hour, Date, Shut-In Lower Completion

(Continue on reverse side)

NMOCD

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DISTRICT III

Flow Test No. 2

Commenced at:	Zone Producing (Upper or Lower)						
Time (date/time)	Lapsed Time Since*	PRESSURE		Prod Zone			
		Upper zone	Lower zone	Temperature	9	Remarks	
Production rate during	test						
_		Dili	11		0	000	
Oil: BPOE	D Based on:	Bbls. In	Hrs.		Grav.	GOR	
Gas	MCFPD; Test th	nru (Orifice or M	eter)				
Remarks:							
I hereby certify that the	e information herein c	ontained is true	and complete	to the best of	my knowledge		
Approved: 2	July	20 19	Operat	or: Hilcorp	Energy Compar	ny	
New Mexico Oil Conservation Division			By:	By: Peter Jim			
1.1 (1) 1							
By: Jam J. Warm			Title:	Title: Multi-Skilled Operator			
Title: Deputy Oil & Gas Inspector, District #3			Date:	Date: Monday, July 22, 2019			

NORTHWEST NEWMEXICO PACKER LEAKAGE TEST INSTRUCTIONS

- 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.
- 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.
- 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.
- 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
- 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)

- 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.
- 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.

5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3