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

Completion

Oil Conservation Division

Northwest New Mexico Packer-Leakage Test

Page 1 Revised June 10, 2003

Well No. 2A Operator COP Lease Name AXI APACHE K Location of Well: Unit Letter Р Sec 04 026N 005W API# 30-039-21223 Twp Rge Name of Reservoir or Pool Туре Method Prod of Prod of Prod Medium Upper Completion PC Gas Tubing Flow Lower Completion ΜV Gas **Artificial Lift** Tubing **Pre-Flow Shut-In Pressure Data** Upper Hour, Date, Shut-In Length of Time Shut-In SI Press. PSIG Stabilized?(Yes or No) Completion 6/25/2010 131 hours 103 Yes Stabilized?(Yes or No) Lower Hour, Date, Shut-In Length of Time Shut-In SI Press. PSIG Completion 6/25/2010 147 82 hours Yes Flow Test No. 1 Commenced at: /28/2010 10:34:00 AM Zone Producing (Upper or Lower): LOWER Time Lapsed Time PRESSURE Prod Zone (date/time) Since* Temperature Remarks Upper zone | Lower zone 24 103 6/29/2010 10:26:34 AM 57 60 49 103 55 6/30/2010 11:10:55 AM 60 Production rate during test
 Oil:
 BPOD Based on:
 Bbls. In
 Hrs.
 Grav.
 GOR
 MCFPD; Test thru (Orifice or Meter) Mid-Test Shut-In Pressure Data Hour, Date, Shut-In SI Press. PSIG Upper Length of Time Shut-In Stabilized?(Yes or No) Completion Lower Hour, Date, Shut-In Length of Time Shut-In SI Press. PSIG Stabilized?(Yes or No)

(Continue on reverse side)

N



Northwest New Mexico Packer-Leakage Test

Flow Test No. 2

Commence	ed at:			Zone Producing (Upper or Lower)				
Tim	1	Lapsed Time Since*	PRESSURE		Prod Zone			
(date/t			Upper zone	Lower zone	Temperature		Remarks	
				L				
Production rate during test								
Oil:	BPOD	Based on:	Bbls. In	Hrs.		Grav.	GOR	
GasMCFPD; Test thru (Orifice or Meter)								
Remarks:								
I hereby certify that the information herein contained is true and complete to the best of my knowledge.								
Approved: AUG 1 3 2010 20 Operator: COP								
New Mexico Oil Conservation Division				_	By: Ramon Sandoval			
					Ramon San	uovai		
By: Zely G. Read			Title:	Multi-Skilled	Operator	•		
Title:	itle: Deputy Oil & Gas Inspector, District #3			Date:	Date: Wednesday, July 07, 2010			

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
- 4 For Flow Test No 1, one zone of the dual completion shall be produced at the normal rate of production 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
- while the other zone remains shut-in. Such test shall be continued for seven days in the case of a gas well and for atmosphere due to lack of a pipeline connection the flow period shall be three hours

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.

Flow Test No 2 shall be conducted even though no leak was indicated during Flow Test No 1 Procedure

- 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).

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