

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

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

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Revised 11/16/98

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST
Operator Energen Resources Lease FEE Well No. 8A
Location of Well Unit "C" SEC 8 T30N R11W API#30045246930000

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (Oil or Gas)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	PICTURE CLIFF	GAS	FLOW	TBG
Lower Completion	MASAVERD	GAS	INTERMENTING	TBG

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in 1:05 pm 8/2/02	Length of time shut-in 69.5 hr	SI press=234	Stabilized? (Yes or No)
Lower Completion	Hour, date shut-in 1:05 pm 8/2/02	Length of time shut-in 69.5 hr	SI press. 424 PSI	Stabilized? (Yes or No)

FLOW TEST NO. 1

Commenced at (hour, date)*1:00 PM 8/5/02				Zone producing (Upper or Lower):	
TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE Upper Completion Lower Completion		PROD. ZONE TEMP.	REMARKS
11:30 am 8/6/02	23.5 hr	217 psi	230 psi	89	
12:20 pm 8/7/02	24:50 hr	232 psi	270	88	
12:00 8/9/02	24 hr	233 psi	184 psi	91	
10:45 8/12/02	70:45 hr	233 psi	337 psi	86	

Production rate during test

Oil: 0 BOPD based on 0 Bbls. in 120.25 Hours Grav. GOR

Gas: 85 MCFPD; Tested thru (Orifice or Meter):

MID-TEST SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in 1:30pm 8/2/02	Length of time shut-in 240 hr	SI press psig 233 psi	Stabilized? (Yes or No)
Lower Completion	Hour, date shut-in 12:00pm 8/9/02	Length of time shut-in 72hr	SI press. Psig 418 psi	Stabilized? (Yes or No)

(Continue on reverse side)

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Commenced at (hour, date)**				Zone producing (<u>Upper</u> or Lower):	
TIME (hour,date)	LAPSED TIME Since**	PRESSURE		PROD. ZONE	REMARKS
		Upper Completion	Lower Completion		
12:30am 8/13/02	21:15 hr	182 psi	428 psi	88	
12:00 8/14/02	23HR	184PSI	430 PSI	90	
12:00 8/15/02	24 hr	90 psi	430 psi	97	
12:15 8/15/02	24 hr	90 psi	430 psi	100	
12:08 8/16	24 HR	185 psi	430 psi	99	

1. A packer leakage test shall be commenced on each multiple 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 the 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 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 date.
 - 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 11-16-98 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).