

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Great Lakes Chemical Corp. Lease Graham Well No. 1-A
Location of Well: Unit P Sec. 4 Twp. 27 N Rge. 8 W County San Juan
Type of Prod. Gas Method of Prod. Flow Prod. Medium Tubing
(Oil or Gas) (Flow or Art. Lift) (Tbr. or Cbr.)

Upper Completion	Largo Chacra	Gas	Flow	Tubing
Lower Completion	Blanco Mesaverde	Gas	Flow	Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Compl	Hour, date 8:10 AM 8/27/78	Length of time shut-in 81 Hours	SI press. psig 314	Stabilized? (Yes or No) Yes
Lower Compl	Hour, date 8:10 AM 8/27/78	Length of time shut-in 81 Hours	SI press. psig 337	Stabilized? (Yes or No) Yes

FLOW TEST NO. 1

Commenced at (hour, date)* 5:00 PM 8/30/78				Zone producing (Upper or Lower):	
Time (hour, date)	Lapsed time since*	Pressure		Prod. Zone Temp.	Remarks
		Upper Compl.	Lower Compl.		
11:00 AM 8/31/78	18 Hours	321 psig	252 psig		
11:00 AM 9/1/78	42 Hours	329 psig	245 psig		

Production rate during test

Oil: ----- BOPD based on ----- Bbls. in ----- Hrs. ----- Grav. ----- GOR -----
Gas: ----- MCFPD; Tested thru (Orifice or Meter): Meter

MID-TEST SHUT-IN PRESSURE DATA

Upper Compl	Hour, date Shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Lower Compl	Hour, date Shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)

FLOW TEST NO. 2

Commenced at (hour, date)**				Zone producing (Upper or Lower):	
Time (hour, date)	Lapsed time since **	Pressure		Prod. Zone Temp.	Remarks
		Upper Compl.	Lower Compl.		

Production rate during test

Oil: ----- BOPD based on ----- Bbls. in ----- Hrs. ----- Grav. ----- GOR -----
Gas: ----- MCFPD; Tested thru (Orifice or Meter): -----

REMARKS: -----

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved: NOV 9 1978 19
New Mexico Oil Conservation Commission

By Frank E. Carg

Title DEPUTY OIL CONSERVATION COMMISSIONER

Operator Great Lakes Chemical Corp.

By T. J. Smith T. J. Smith

Title Agent

Date 11/9/78

1. A well is considered to be a dual completion well if it is completed in two or more zones and is capable of producing from more than one zone simultaneously. These wells shall be operated in accordance with the multiple completion. Each zone shall be produced on an alternating basis within seven days after completion and/or chemical or fracture treatment, and the well shall not be shut-in for more than seven days. Tests shall also be taken at any time that completion is suspected or when requested by the Commission.

2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Commission 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 well-head for 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. After test 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. Immediately prior to the start of the test, the well shall be shut-in for seven days. The shut-in shall be at least 72 hours prior to the start of the test, including one pressure measurement immediately prior to the commencement of each flow period. Tests shall be conducted during each flow period (at approximately the midway point) and immediately prior to the completion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.

8. 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 pressure as required above being taken on the gas zone.

9. 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 Acre District Office of the New Mexico Oil Conservation Commission on the back of the Packer Leakage Test Form Revised 11-1-56, with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zone only) and gravity and GOR (oil zone only). A pressure versus time curve for each zone of each test shall be constructed on the reverse side of the Packer Leakage Test Form with all deadweight pressure data indicated thereon. For oil zones, the pressure curve should also include all key pressure changes which may be reflected by the recording pressure charts. These key pressure changes should also be tabulated on the back of the Packer Leakage Test Form.

PRESSURE

400

300

200

100

