## STATE OF NEW MEXICO

## **ENERGY and MINERALS DEPARTMENT**

OIL CONSERVATION DIVISION



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Revised 10/01/78

This form is not to be used for reporting packer leakage tests in Southeast New Mexico NORTHWEST NEW MEXICO PACKER-LEAKAGE TESH DUST. 3

Operator <u>NORTH</u>	HWEST	PIPELINE CORPORATIO	N		Lease _F	OSA UN	T	Well No. 145A
ocation of Well: UnitD	)	Sec. 16	Tw	p. <u>31</u> 1	N	Rge	<u>6W</u> Co	unty <u>SAN JUAN</u>
	NAME OF RESERVOIR OR POOL				TYPE OF PRC (Flow or Art. Li		METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	PICTURED CLIFFS				GAS		FLOW	TUBING
Lower Completion	MESA VERDE			GAS		FLOW	TUBING	
			F	PRE-FLOW S	SHUT-IN PRES	SURE DA	TA	
Upper Completion	Hour, date shut-in 1000 HOURS, 10-10-94		Length of time shut-in 48 HOURS		ıt-in	SI press. psig SITP = 1193, SICP = 1337		Stabilized? (Yes or No) YES
Lower Completion	Hour, date shut-in 1300 HOURS, 10-04-94		Length	Length of time shut-in 174 HOURS		SI press. psig SITP = 1123		Stabilized? (Yes or No) YES
			<del></del>	FL	OW TEST NO.	1		
Commenced a	at (hour	, date)* 0800 MST, 10-12	:-94				Zone producing (Upper	or Lower) LOWER
TIME		LAPSED TIME	PRESSURE				PROD. ZONE	REMARKS
(hour, date)		SINCE*	Upper Completion Lower Com			pletion	TEMP.	
			TBG	CSG	TBG			
0830, 10-12-	-94	0.5 HOURS	1201	1341	268		56	IP TEST ON MV
0900, 10-12-	-94	1.0 HOURS	1206	1346	249		56	
0930, 10-12-	-94	1.5 HOURS	1206	1345	247		58	LIGHT MIST
1000, 10-12-	-94	2.0 HOURS	1206	1343	241		59	LIGHT MIST
1030, 10-12-	-94	2.5 HOURS	1207	1344	238		60	LIGHT MIST
1100, 10-12	-94	3.0 HOURS	1208	1344	238		60	LIGHT MIST
Production rate of Dil: NONE  Bas: 3110 MCF		BOPD based on					s, Grav (Orifice or Meter):2"	GOR
Jas. STIU WILL	<u>/ D LIG</u>	IT MICT						
Upper Completion		r, date shut-in 000 HOURS, 10-10-94	T	of time shi		SI pres	ss. psig P = 1221, SICP = 1396	Stabilized? (Yes or No) YES
Lower Completion		r, date shut-in 100 HOURS, 10-12-94	Lengti	of time she 90 HOU		SI pres	ss. psig SITP = 1131	Stabilized? (Yes or No) YES

## NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST FLOW TEST NO. 2

7.1.0	r, date)* 0515 MST, 10-16-94				Zone producing (Upper or Lower) UPPER		
TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE			PROD. ZONE	REMARKS	
	SINCE	Upper Co	ompletion	Lower Completion	TEMP.		
		TBG	CSG	TBG			
0545 10-16-94	0.5 HOURS	244	1052	1127	80	IP TEST ON PC	
0615 10-16-94	1.0 HOURS	189	947	1130	89	UNLOAD HEAVY MIST IN 15 MIN	
0645 10-16-94	1.5 HOURS	149	867	1129	90	HEAVY MIST	
0715 10-16-94	2.0 HOURS	128	816	1129	90	HEAVY MIST	
0815 10-16-94	2.5 HOURS	112	781	1129	91	HEAVY MIST	
0815 10-16-94	3.0 HOURS	103	755	1130	91	HEAVY MIST	

Oil: NONE	BOPD based on	BBLs. in Hours, Grav GOR	
Gas: 1376 MCF/D HE	AVY MIST	MCF/D: Tested thru (Orifice or Meter):2" x 3/4" PROVER	
Remarks:			
			-
-			
I hereby certify that the in	nformation herein contained is tri	e and complete to the best of my knowledge.	
Approved New Mexico Oil Conserv	UI 5 1 1994 18	Operator NORTHWEST PIPELINE CORPORATION	
By Title GLAUT	Marles Syntas Y UIL & GAS INSPECTOR, DIST	By Mark McCallister 2/M Senior Engineer	

## NORTHWEST NEW MEXICO 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.
- 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 leak of a pipeline connection the flow period shall be three hours.
- 5. Following completion of Flow Test No. 1, the well shall again be shutin, 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 zoned shall remain shut-in while the zone which was previously shut-in is produced.
- 7. Pressures for gas-zones 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. Test 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).