## j STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT

## **OIL CONSERVATION DIVISION**

Page 1 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 TEST

											Well		
Operator	Southland Royalty Co.							Patterson A		No.	1		
Location											_		
of Well:	Unit	0	Sect	2	Twp.	31N	Rge.	12W	County		San Jua	an	
	NAME OF RESERVOIR OR POOL							TYPE OF PROD.		METHOD OF PROD.		PROD. MEDIUM	
							(Oil or Gas) (Flow		w or Art. Lift) (Tbg. or Csg.)		r Csg.)		
Upper													
Completion	Mesaverde							GAS		FLOW	l c	SG	
Lower													
Completion	Dakota							GAS		FLOW	l T	BG	
· ·					PRE-	FLOW SHUT	IN PRE	SSURE DATA	·		<u> </u>		
Upper	Hour, d	ate shut-in		Length of t			SI press	<del></del>		Stabilized? (Yes	s or No)	4	
Completion	8/4/95			7 Days			382		Stabilized: (1es of 140)		, 01 110)		
Lower	1			7 2 4 7 5	·		1 332					· · ·	
Completion		8/4/95	,	5 Days			569						
- supretion	1	5/ 1/00		2 24,3		FLOW TEST				·		-	
Commenced a	t (hour.d:	ate)*		9-Au	r-95	. 20 11 1201	110.1	Zone producing	(Unper o	· Lower)	LOWER	1	
TIME	LAPSED TIME			> 7 Tul	PRES	SURE		PROD. ZONE	Соррего	Lower)	LOVVLI		
(hour,date)		SINCE*		Upper Co		Lower Compl	etion	TEMP	REMARKS				
(nour,uate)	<del>                                     </del>	Shie		Оррег со	inpicuon	Lower compr	Juon	TEMI	<del> </del>	KEMAK	K.3		
7-Aug				3	73	564	ı		Unner	Zone on CS	·C		
/ Aug				<u> </u>	7.5	304		<del> </del>	Opper	Zurie un Co	<u> </u>		
8-Aug				379 566				:	One T	P.C. otrino or	-		
o-Aug	<u> </u>			3	7.5	300	<u> </u>		One i	BG string or	<u> </u>		
9-Aug				2	82	569	١		Lower	7000			
J-Aug	<u> </u>				02	303			Lower	Zone.			
10 400				2	80	312	1						
10-Aug	ļ .			3	80	312	<u> </u>						
11 Δ				2	90	222	1						
11-Aug	<del>                                     </del>	-		3	80	323		-	1			<del></del>	
						ļ							
D., J., 4						<u> </u>		L	<u> </u>			<del></del>	
Production r	ate durir	ng test			•								
0.11		BODE :			F				~				
Oil:		BOPD base	d on		Bbls.	ın	Hours.		Grav.		GOR		
Gas:				MCFPD;	Tested the	ru (Orifice or N	Meter):						
	1	<del></del>				TEST SHUT-	T						
Upper	Hour, de	ate shut-in		Length of t	ime shut-in		SI pres.	psig	Stabilized? (Yes or No)				
Completion							-						
Lower	Hour, d	ate shut-in		Length of t	ime shut-in	i	SI press	. psig		Stabilized? (Yes	or No)		
Completion	<u> </u>			<u> </u>			<u> </u>						

(Continue on reverse side)

FLOW TEST NO. 2

Commenced a	at (hour.date)**		· .	Zone producing (Upper or Lower):					
TIME LAPSED TIME		PR	ESSURE	PROD. ZONE					
(hour.date)	SINCE**	Upper Completion	Lower Completion	ТЕМР.		REMARKS			
			·			<u> </u>			
		<u> </u>	<u> </u>						
					ļ				
	ļ								
	<del> </del>	<u> </u>							
		<u> </u>							
Production	rate during test								
Oil:	BOPD base		Bbls. in		Grav.	GOR			
Gas:		MCFPD; Te	ested thru (Orifice or	Meter):					
Remarks:									
				·					
I hereby cer	tify that the informat	tion herein containe	d is true and complet	e to the best of my k	nowledge.				
		Ø 0 .	<del></del>						
Approved Johnny Rollinson			19	Operator	Southland Royalty Co.				
New Mexico Oil Conservation Bivision 1995				Ву	Dolores Dia	Dolores Diaz			
		o = 1000		,	<u> </u>				
Ву		011 4 040 11:055		Title	Operation (	Clerk			
	DEPUTY	OIL & GAS INSPE	CIOR						
Title				Date	8/2	21/95			

## 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 connected on all multiple completions within seven days following recompletion and/or chemical or frac-ture 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 if 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.
- 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 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 gaz 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 of 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).