OIL CONSERVATION DIVISION

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

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator	<u></u>	OUTHLAND	ROYALTY	COMPANY	Le2se _	FRONTIER E		Well No.	#1
Location of Well:	Unit	0 Sec	04 Twp	2	7 Rge	11	Cou	ntyS/	AN JUAN
		NAME OF	RESERVOIR OF	POOL	TYPE OF S		METHOD OF PROC (Flow or Art. Lift)).	PROD. MEDIUM (Tbg. or Cag.)
Upper Completion	GALL	.UP			GA:	S	FLOW		TUBING
Lower Completion	DAKO	ATC			GA:	S	FLOW		TUBING
				PRE-FL	OW SHUT-IN P	RESSURE DATA	1		
Upper Completion	Hour, date T &	A 5/10/9	90	Length of time shi		St press, psig C/ 146	T/ 167	Stabilized? (Ye	s or Noi
Lower Completion	Hour, date 5/10	30ut-in 0/90		Langth of time sh	S S	SI press. psig		Stabilized? (Ye	s or No)
					FLOW TEST	NO. 1			
Commenced	at (hour, di	ite)*				Zone producing (U	pper or Lowert	<u>-</u>	
Tili (hour,	ME detel	LAPSED T SINCE		PRES	SURE Lower Completion	PROD. ZONE TEMP.		REMAR	KS
		<u> </u>					*SEE 3 H	R. TEST (ON REVERSE SIDE
_									
						,		-	
	·				<u> </u>				
Productio	on rate d	uring test				<u>. </u>	-		
Oil:			BOPD ba	sed on	Bbls. in	Hour	s C	Grav	GOR
G 25 :				MCF	PD: Tested thru	(Orifice or Mete	er):		
				MID-TI	EST SHUT-IN PI	RESSURE DATA			
Upper Completion	Hour, date	snut-in		Length of time shu	الله الله الله	SI Res Nos		Stabilized? (Ye:	s or No
Lower Completion	Hour, date	Shut-in		Length of time shu	JUL	9 1990		Stabilized? (Yes	s or Noi

OIL CON. DIV.

FLOW TEST NO. 2

menced at (hour, o	date) ** 5/10	/90		Zone producing (U	pper or Lowers: LOWER
TIME	: LAPSED TIME	PRES	SSURE	PROD. ZONE	
(hour, date)	SINCE **	Upper Completion	Lower Completion	TEMP.	REMARKS
	00:15	C/ 68 T/ 68	T/ 275	58	UPPER ZONE SI & MONITORED
11:30	00:30	C/ 50 T/ 52	I/ 238	59	LOWER ZONE FLOWING THUR 3/4" C
	00:45	C/ 49 T/ 50	T/ 150	60	" I LONING J.
	01:00	C/ 53 T/ 50	T/ 103	60	ıı
	01:15	C/ 55 T/ 61	T/ 103	60	
	01:30	C/ 52 T/ 72	T/ 50	60	er .
	01:45	C/ 89 1/ 72	17 5	70	
	02:00	C/ 88 T/ 105	T/ 0	78	н
	02:15	C/ 95 T/ 112	T/ 39	58	
	02:30	C/ 110 T/ 123	,	72	ŧi
	02:45	C/ 121 T/ 135		79	11
	03:00	C/ 130 T/ 145	., -	62	

Original Signed by CHARLES GHO	OLSON	By	PRODUCTION ASST.
		D.	
w Mexico Oil Conservation Division			· · · · · · · · · · · · · · · · · · ·
JUL 9 1990	19	Operator .	SOUTHLAND ROYALTY COMPANY
by certify that the information herein	n contained is true a	and complete to	the best of my knowledge.

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 tuoing 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 shirtly 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 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 Azter 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).