ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

2004

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST

Operator	PATINA S	AN JUAN	, INCORI	PORATE	D Lease	TRIBAL	c C	Well No.	4		
Location								Calc 36 76 100			
of Well	Unit	<u>P</u>	Sec.	6	_ Twp.	. <u>26N</u>	_Rge.	3W API#	30-039-06668		
	NAME OF RE	ESERVOIR OR PO	OCL		F	OF PROD.	<u></u>	METHOD OF PROD.	PROD. MEDIUM		
Upper					(Oil or Gas)		(Flow or Art. Lift)	(Tbg. or Csg.)			
Completion Lower	PICTURED CLIFFS				GAS			FLOW	TBG		
Completion	DAKOTA				GAS	<u> </u>		FLOW	TBG		
				PRE	-FLOW SHUT	-IN PRES	SURF	E DATA			
Upper	Hour, date shut-in)			Length of time shut-in	1	·	Si press. psig	Stabilized? (Yes or No)		
Completion	12/20/2004	4			3 DAYS			100	YES		
Lower	Hour, date shut-in				Length of time shut-in			_	Stabilized? (Yes or No)		
Completion	12/20/2004	1		<u> </u>	3 DAYS			775	YES		
FLOW TEST NO. 1											
Commenced	l at (hour, date)) * 1	4	Zone producing (U			Jpper or Lower):	LOWER			
TIME	LAPSED TIME	<u>:</u>		PRESSURE		PROD. ZONE					
(hour, date)	Since *		Upper Completi	ion	Lower Completion	TEMP.	<u> </u>	REMARK	S		
			csg	tbg	tbg						
12/21	<u> </u>		85	65	375	<u> </u>	ВОТ	H ZONES SHUT IN			
12/22			100	90	710		воті	H ZONES SHUT IN			
12/23			105	100	775		ВОТІ	: H ZONES SHUT IN			
12/24	1 DAY		115	110				ER ZONE FLOWING			
12,20	1 37.							Dell's to the first of the first of			
12/25	2 DAYS		115	220	50		LOW	ER ZONE FLOWING			
	rate during							- 			
Oil:		BOPD based	on		Bbls. in	Bbls. in Hours		Grav.	GOR		
Gas:			40	· · · · · · · · · · · · · · · · · · ·	MCFPD: Tested to	hru (Orifice	or Mete	METER			
	_			MID.T	EST SHUT-IN	DDFSSU	ee D/	ATA			
Upper Completion									Stabilized? (Yes or No)		
	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	LAPSED TIME	PRES	SURE	PROD. ZONE				
(hour, date)	SINCE **	Upper Completion	Lower Completion	TEMP.	REMARKS			
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	 	C 100 100 100 100 100 100 100 100 100 10		0.114	20 1 10 10 10 10			
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<u> </u>	<u> </u>		· · · · · · · · · · · · · · · · · · ·					
Production	rate during test	• • •		و بر بر	*, **			
	•	C address						
Oil:	BOPD ba	sed on	Bbls. in	Hrs(GravGOR			
Gas:		_ MCFPD: Tested the	ru (Orifice or Meter):		AND THE PERSON NAMED OF TH			
Remarks:	·	-	~	,	to entropy of the second to th			
f		-	_ '					
I hereby certif	fy that the information I	nerein contained is tru	e and complete to the	best of my knowled	lge.			
Annroyed	FER: 1.1	2005	- Onera	tor PATINAS	AN JUAN, INCORPORATED			
	o Oil Conservation				A /			
New Mexic	Oli Conservation) - I	~ [′] Bv	1 Kays C	ekstein			
By M	al Has	<u> </u>	•		ION ANALYST			
Title AV	Luna St	PERVISOR DIST	RICT#3 Date	02/08/05	· · · · · · · · · · · · · · · · · · ·			
TRIE TI 9	7000		TOT # 3 Date	02/00/00				

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 distrubed. 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 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 oit 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.
- 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 dead-weight pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the beginning of each flow-period, at fifteen-nminute 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 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 Oii Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-98 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only)