STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT This form is not to be used for reporting pecker leakage tests in Southeast New Mexico

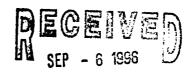
OIL CONSERVATION DIVISION

Page 1 Revised 10/01/78

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator	MERIDIAN	OIL INC	: .			Lease	CANYO	N LARG	O UNI	IT	Well No. 178	
Location of Well:	Unit C	Sect.	14	Twp.	025N	- Rge.	006W	Сош	nty	RIO ARRIBA		-
NAME OF RESERVOIR OR POOL							E OF PRO	D. 1	METHOD OF PROD.		PROD MEDIUM]
					 	(Oil or Gas) (F			or Art. Lift)	(Tbg. or Csg.)	4	
Upper Completion	PICTURE	ED CLIFF	'S			GAS			LOW		CASING	
Lower Completion	CHACRA					GAS	GAS FLOW				CASING	
PRE-FLOW SHUT-IN PRESSURE DATA												
Upper Completion	Hour, date sh	nut-in H-9	Length of time sh	nut-in	SI press, paig Stabilized? (Yes					es or No)		
Lower Completion	14:30							",180				
					FLOW T	EST NO						-
Commence	d at (hour,date)*	4-13	2-96				Zone	producing	(Upper	or Lower)	WEL]
TIME	LAP	SED TIME		1	PRESSURE		PRO	D. ZONE	1			
(hour,date		SINCE*		Upper Complete	ion Lower	Completion	n 1	EMP	\perp	REN	MARKS	┩_
14:30	AU	7		010		50				torting	Fress	The linker ore
7-10-9	6 7	nrs		240) 0			↓	140-14	-	The Higher pre-
14:30	1 1	4.5		260	7	7/)	-		+			OF DOLLY COPER
7.11-9	* An	//*)		740	- 1	/ 	_+		174	J-n-	Lower	yeads flowed
17:06	6 7	72 hrs 270					80 completi			ingletio	hower on	for test.
13:00	94	96 Hrs 27				10						
17:00	٠	O AL) ·	270	1	10						
4-15-9	16 /.4	14 Hn	,	270		10						
Production	n rate during te	est			•							
Oil:	BC	OPD based	on	Bb	ls. <u>in</u>	Но	ours		_Grav	·	GOR	
Gas:			_ мс	FPD; Tested ti	hru (Orifice	or Meter):					
MID-TEST SHUT-IN PRESSURE DATA												_
Upper Completion		Hour, date shut-in Length of time shut-in				SI press. psig Stabilized					es or No)	
Lower Completion		Hour, date shut-in Length of time shut-in				SI pres	s. psig			Stabilized? (Y	es or No)	1
<u> </u>				1		<u> </u>					.,	_

(Continue on reverse side)



OIL COM. DIV.

FLOW TEST NO. 2

Commenced a	it (heur,date)**		12011 1231								
TIME	LAPSED TIME	PP	ESSURE	Zone producing (Up	per or Lower):						
(hour,date)	SINCE**	Upper Compicuon	T	PROD. ZONE							
		opper completion	Lower Completion	TEMP.	REMARKS						
		 									
]]								
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	•	İ]								
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	i										
				1 .							
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				į							
Production r	ate during test		L	<u> </u>							
	g		~	•							
Oil:	BOPD bases	d on	D.								
Gas:	DOID Dases		Bbls. in	Hours.	GravGOR						
Remarks:		MCFPD; Tes	ted thru (Orifice or N	Aeter):							
remarks.			 								
T bearing of											
I licieby cent	iry that the information	on herein contained	is true and complete	to the best of my kn	owledge.						
	Υ,	• 1)		,							
Approved	- CW	est literac	19	Operator VIII	water themeson I						
	Deputy (Oil & Gas Insp	ector		The state of the						
New Mexic	co Oil Conservation	Division		By'	ar dia :						
	Si	EP 1 1 1996			1)						
Ву				Title DOUL	tim associate						
:				- Sperie	MIN CHOOLEN						
Title				Date	9-10-91						
:				. Date	1418						
i i		NORTHWEST	JEW MEVICO D. CU-		· · · · · · · · · · · · · · · · · · ·						
I. A packer lead	cage tast shall be commenced		NEW MEXICO PACKE of well within seven days aft								
					isly produced zone shar. ain shut-in while the zone						
	NACIONI MINICIPI OF IL	AC-Dife freatment and when	ne order authorizing the completions within seven day never remedial work has been	 7. Pressures for gas-z 	one tests must be measu: Son zone with a deadweight						
	- will writerly risk narrated (it ill)	E lilining have been discusses.	/ Table 1 11 1 1 1 1 1		intervals as follows: 3 jests: immediately prior to the						
	eminimization is suppossed of	Wilen requested by the Dist.		thereof, and at hourly i	r-period, at fifteen minute intervals during the first hour intervals thereafter, including one pressure measurement						
	riting of the exact time the t	est is to be commenced. Or	sion. est, the operator shall notify ffset operators shall also be s	immediately prior to th	to flow period, at least : - me during each flow period (as						
				flow period. Other pre	way point) and immediately prior to the conclusion of each						
Process amounts	akage test shall commence wation, both zones shall remained	IN SOUR-IN until the until bee.	4 !- · · · · ·	which have previously	shown rest state test data.						
THEORIZOG, PROVID	ou nowever, that they need t	NOT COMMIN Physics were about		24-hour oil zonc lests continuously me led	all pressures, throughout the entire test, shall be						
- LOLITON LESS	NO. 1, one zone of the dual	completion shall be assetut	ماديداست	which must = 3d	and recorded with recording pressure gauges the accuracy of at least twice, once at the beginning and once at the end of						
	I'VE CAUSE OF A	BOILWELL Nove-if on an i	ou at the normal rate of nued for seven days if the ca initial nector lealers are	se each tes:dw	reight pressure gauge. If a well is a gas-oil or an oil-east deal						
gas well is being be three hours.	flowed to the atmosphere du	e to the lack of a pipeline of	onnection the flow period shi	como: ecordi	ing gauge shall be required on the oil zone only, with as required above being taken on the gaz zone.						
	npletion of flow Test No. 1.			8. The results of the al	bove described tests shall be filed in triplicate within 15 de-						
	6.			arter completion of the	test. Tests shall be filed with the Azrec Dietrice Office of the						
 Procedure for Fin 	. 2 shall be conducted even to w Test No. 2 is to be the sai	hough no leak was are cated	during Ow Test No. 1.	1 est form Kevised 10/0	ervation Division of Northwest New Mexico Packer Leakage 01/78 with all deadweight pressures indicated thereon as well						
	2 to to oc uic \$2!	inc as for 2 ow 134 No. 1		as the flowing temperat	tures (gas zones only) and gravity and GOR (oil zones only).						

STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT Thus form is not to be used for reporting packer leakage tests in Southeast New Mexico

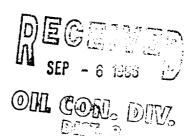
OIL CONSERVATION DIVISION

Page 1 Revised 10/01/78

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Location	MERID	IAN	OIL INC				Lease	CAN	YON L	ARGO	UNIT	•	Well No.	178	_
	Unit	C	Sect.	14	Twp.	025N	Rge.	006	w	County	R	IO ARRIBA			
		N	AME OF R	ESER'	VOIR OR POO	L	TYP	E OF I	PROD.	ME	THOD	OF PROD.	PROD	MEDIUM	
	<u> </u>							Oil or C	ias)	(F	low or	Art. Lift)	(Tbg	or Csg.)	
Upper Completion	PIC	TURED	CLIFFS				GAS			FLO	ra .		CASIN	īG	
Lower Completion	СНА	CRA					GAS			FLO	W		CASIN	īG 🔻	Should Thick: Thy.
					PRE-FLC	W SHUT-I	N PRES	SURE	DATA						109.
Upper Completion	Hour,	date shut	4-9-9	4	Length of time sh	nut-in /204	SI press.	27	0			Stabilized? (Yes	or No)		
Lower Completion	14;	14:70 4-9-86 724						180							
FLOW TEST NO. 1															
Commenced a	at (hour,	iate)*	4-12.	46.				Z	one prod	lucing (U	pper or	Lower)	wer		
TIME		LAPSED TIME PRESSURI						_ •	PROD. ZONE						
(hour,date)	 		NCE*		Upper Complete	ion Lower C	completion	n	TEM	P		REM	ARKS		_
13:30	12	HAD			270	1	80								
15:30 4-13-45	96+	les			270	11	0								
14:36 4-14-90	/2	12 Hes 270 120 Hes 270				14	100					· · · · · ·			
		·			<u> </u>										
					7.€										
Production :	rate dur	ing test				•				•					
Oil:		_ BOPI	D based on		Bb	ls. <u>in</u>	Но	ours		G	rav		GOR _		_
Gas:				MCF	PD; Tested th	nru (Orifice o	or Meter) :							
		-		•	,		,								
						ST SHUT-I	7		DATA						_
Upper Completion	Hour,	Hour, date shut-in Length of time shut-in				SI press. psig Stabiliz					Stabilized? (Yes	or No)			
Lower Completion	Hour,	Hour, date shut-in Length of time shut-in					SI press. psig Stabilized? (1					Stabilized? (Yes	or No)	total majory	••••
															_

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Page 2 FLOW TEST NO. 2 Commenced at (hour,date)** Zone producing (Upper or Lower): TIME LAPSED TIME PRESSURE PROD. ZONE (hour,date) SINCE** Upper Completion Lower Completion TEMP. REMARKS Production rate during test Oil: BOPD based on Bbls. in Hours. Grav. GOR Gas: MCFPD; Tested thru (Orifice or Meter): Remarks:

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

Operator

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.

Deputy Oil & Gas Inspector

SEP 1 1 1996

New Mexico Oil Conservation Division

Approved

Ву

Title

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

- 2. 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 "lowed to the atmosphere due to the lack of a pipeline connection the flow period shall be three hours.
- 5. Following c. oletion 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 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).