STATE OF NEW MEXICO ENERGY and MINERALS

DEPARTMENT

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

OIL CONSERVATION DIVISION

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NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

											Well			
Operator	MERIDIA	N OIL INC.	·				Lease	NAVAJO INDIA	AN R		No. 3			
Location						071		OIN	_		OAN HIAN			
of Well:	Unit	N	Sect	19	Twp.	27N	Rge.	8W	County		SAN JUAN			
		NAM	E OF R	ESERVOIR O	R POOL		TY	PE OF PROD.		D OF PROD.	PROD. MEDIUM			
	<u> </u>						<u> </u>	(Oil or Gas)	(Flo	w or Art. Lift)	(Tbg. or Csg.)			
Upper														
Completion	PIC	CTURED C	LIFF					GAS		FLOW	TBG			
Lower														
Completion	ME	SAVERDE						GAS		FLOW	TBG			
					PRE-	FLOW SHUT	Γ-IN PRE	SSURE DATA	١					
Upper	Hour, dat	te shut-in		Lengta of tir	ne shut-in		SI pres	s. psig		Stabilized? (Ye	s or No)			
Completion	1													
Lower														
Completion														
	•	-			_	FLOW TES	T NO. 1							
Commenced a	ıt (hour.dat	te)*						Zone producing	g (Upper or	Lower)				
TIME	LAPSED TIME PRESSURE							PROD. ZONE	T	(opper si gana)				
(hour,date)		SINCE*		Upper Con	_	Lower Comp	oletion	TEMP		REMARKS				
(mourauce)	 	DITTEL		оррег сол	причин	201101 2012			1					
									THE PICT	TURED CLIFE A	ND MESAVERDE			
	 								1112110	TOTAL OLITT	WEST TENDE			
									FORMAT	INNS HAVE RE	EN RECOMPLETED			
	 								TOTTIVIA	IONO TIAVE DE	EN TILOUNT LETED			
	1			1				İ	TO A CIA	IGLE CHACRA	EODMATION			
									TUASIN	IGEE CHACKA	TORINATION.			
	 								+		 			
	1													
		_			-			_	<u> </u>	 -				
	<u> </u>							<u>. İ</u>						
Production 1	rate durin	g test												
Oil:		BOPD ha	sed on		Bbls.	in	Hours	·	Grav.		GOR			
Gas:				MCFPD;	rested the	ru (Orifice or	Meter):							
					MID-	TEST SHUT	-IN PRE	SSURE DATA						
Upper	Hour, da	te shut-in		Length of ti	me shut-in		SI pres	s. psig		Stabilized? (Ye	s or No)			
Completion								- -						
Lower	Hour da	te shut-in		Length of ti	me shut-in		SI pres	ss. psig		Stabilized? (Ye	s or No)			
Completion	l'iour, da				111			,			,			
Completion							——							

(Continue on reverse side)



OIL CON. DIV.

FLOW TEST NO. 2

ominenced	at hour.date)**			Zone producing (Upper or Lower):				
TIME	LAPSED TIME	PR	ESSURE	PROD. ZONE				
hour.date)	SINCE**	Upper Completion	Lower Completion	TEMP.	REMARKS			
				_				
								
	 							
		<u> </u>	<u> </u>					
roduction:	rate during test							
N.11								
Dit: Bas:	BOPD has	ed on		Hours.	Grav. GOR			
		MCFPD: Te	sted thru (Orifice or	Mistania	· —— —— ——			
emarks:								
is saulten o								
neteny cer	my mat me informa	tion nerein contained	is true and complete	e to the hest of my ki	nowledge.			
\pproved			10	0	Meridian Oil Inc.			
,,,,,,,,,			·	Operator	Weridian Off Inc.			
New Mex	ico Oil Conservation	n Division		Ву	Tanua Ataittu			
on conservation Division				БУ	Tanya Atcitty			
				Title	Operations Associate			
3v					Operations Associate			
3y								
3y îtle				Date	7/12/95			

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

to lowing recompletion and/or chemical or frac-ture treatment, and whenever remedial work has been cone 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.

2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify

ominenced at hour.date)**

- me Division in writing of the exact time the test is to be commenced. Offset operators shall also be so restriced.

 3. The ruccer resinge test shall commence when both zones of the dual completion are shut-in for
- pressure stabilization, both zones shall remain shur-in until the well-head pressure in each has stabilized, provided however, that they need not remain shur-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 gus well is being llowed to the atmosphere due to the lack of a pipeline connection the flow period shall
- 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 snut-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 bours 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 reasurement immediately prior to the flow period, at least one time during each flow period (at approximately the midway point) and immediately prior to the conslusion of each flow period. Other pressures may be taken as desired, or may be equested on wells which have previously shown questionable test data.
- 24-hour oil zone tests; all pressures, throughout the entire test, si all be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and or ce 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 cons.

 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 Azuce District Office of the New Mexico Oil Conservation Division of Northwest New Mexico Packer Leakage Test form Revised 10/01/78 with all deadweight pressure, indicated thereon as well as the flowing temperatures (gas zones only) and g avity and GOR (oil zones only).

STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

										Well	
Operator	MERIDIAN	OIL INC.				Lease	NAVAJO INDIA	IN B		No3	
Location											
of Well:	Unit	N Se		Twp	. 27 N	Rge.	8W	County		SAN JUAN	
		NAME OF	RESERVOIR	OR POOL			PE OF PROD.		OD OF PROD.	PROD. MEDIU	
						+	(Oil or Gas)	(Flo	w or Art. Lift)	(Tbg. or Csg.)	
Upper											
Completion	PIC	TURED CLIFF					GAS	ļ	FLOW	TBG	
Lower	İ					İ					
Completion	ME	SAVERDE					GAS	<u> </u>	FLOW	TBG	
		·		PRE	FLOW SHU	Γ-IN PRE	SSURE DATA	1		<u> </u>	
Upper	Hour, date shut-in Length of time shut-in						. psig		Stabilized? (Ye	s or No)	
Completion											
Lower	Ī										
Completion											
	•				FLOW TES	T NO. 1			•	·	
Commenced a	it (hour,date	*					Zone producing	g (Upper o	r Lower)	···	
TIME	LAPSED TIME PRESSURE						PROD. ZONE	1			
(hour.date)			Urner C	ompletion	Lower Comp	eletion	TEMP	REMARKS			
11104114410)	<u> </u>		Spp. 5	o.mpiouou	20.00			 			
								THE PIC	TURED CLIFE A	ND MESAVERDE	
	<u> </u>				 			1112710	TOTICE OUT A	IND INCOATERIBE	
								FORMAT	TIONS HAVE BE	EN RECOMPLETE	
								TO A SI	IGLE CHACRA	FORMATION.	
			<u> </u>							<u> </u>	
	 		+		 			†			
					-						
D 1 .:	1				<u> </u>		İ				
Production i	rate during	test									
								_			
Oil:	E	BOPD based or	·	Bbls	. <u>in</u>	Hours	·	Grav.		GOR	
Gas:			MCFPD:	Tested th	ıru (Orifice or	Meter):					
				MID	-TEST SHUT	-IN PRES	SSURE DATA				
Upper	Hour, date	e shut-in	Length of	time shut-u	n	SI pres	. psig		Stabilized? (Ye	s or No)	
Completion	<u> </u>										
Lower	Hour, date	e shut-in	Length of	time shut-ii	n	SI press	s. psig		Stabilized? (Ye	s or No)	
Completion									1		

(Continue on reverse side)

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			FLOW LEST	LNO. 2					
Commenced a	t (hour.date)**			Zone producing (Upper or Lower):					
TIME	LAPSED TIME	PRI	ESSURE	PROD. ZONE					
hour.uate)	SINCE**	Upper Completion	Lower Completion	TEMP.	REMARKS				
				1 1	REWARKS				
-	·								
	·								
			 						
l									
	····								
Production r	ate during test								
	*								
Oili	BOPD base	ed on	Rhls in	Hours	Grav. GOR:				
Gue		MCERD, T.	atud then Origin		Grav. GOF.				
Gas.		MCFFD, Te	sted thru (Ornice or	(Meter):					
Remarks:									
I hereby cer	tify that the informa	tion herein contained	d is true and complet	e to the hest of my kr	iowledge.				
\pproved			19	Operator	Meridian Oil Inc.				
				_ •					
New Mex	ico Oil Conservation	n Division		D.	Tanya Atcitty				
	ico on conservation	i Division		Ву	anya Alcilly				
n.									
By				Title	Operations Associate				
Title	==			Date	7/12/95				

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

Valueer, editage test small be commenced on each multiply completed well within seven days after count 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 oniowing recommendation and/or chemical or fracture treatment, and whenever remedial work has been days commended as well furing 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.

2. At least 72 hours prior to the commendement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commended. Offset operators shall also be so

- The packer leakage test shall commence when both zones of the dual completion are shut-in for measure stabilization, both zones snall remain suit-in until the well-head pressure in each has sampled, novided however, that they need not remain shut-in more than seven days.
- 4. For flow fest No. 1, one zone of the dual completions shall be produced at the normal rate of module of the other zone remains shall-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 us well is being flowed to the atmosphere due to the lack of a pipeline connection the flow period shall so time to use it is obtained with an inseptient use to the lact of a pipeline commercion the flow bent of time to use.

 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 lear was indicated during flow Test No. 1.
 Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1

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- except that the previously produced zone shall remain shut-in witile the zone which
- was previously shul-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. 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 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-ni or an oil-gas dual completion, the recording gauge shall be required on the oil zon: only, with deadweight pressures as required above being taken on the gaz (one.
- 8. The results of the above described tests shall be filed in triplicate within 15 days after competion of the test. Tests shall be filed with the Azze District Office of the New Mexico Oil Conservation Division of Nonthwest New Mexico Packer Leakage Test form Revised 10/01/78 with all deadweight pressures indica thereon as well as the flowing temperatures (gas zones only) and gravity and GOR

STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT

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	MERIDIAN OIL INC.							NAVAJO INDIA	No. 3				
Location													
of Well:	Unit	N	Sect	19	Twp.	27 N	Rge.	8W	County		SAN JUAN		
		NAMI	OF RE	ESERVOIR O	R POOL		TY	PE OF PROD.	METH	OD OF PROD.	PROD. MEDIUM		
								(Oil or Gas)	(FI	ow or Art. Lift)	(Tbg. or Csg.)		
Upper													
Completion	PIC	TURED CL	IFF					GAS		FLOW	TBG		
Lower										·			
Completion	MES	SAVERDE						GAS		FLOW	TBG		
					PRE-	FLOW SHUT	Γ-IN PRE	SSURE DATA	<u> </u>		·		
Upper	Hour, date	shut-in		Length of tir	ne shut-in		SI press	s. psig		Stabilized? (Yes	s or No)		
Completion										,			
Lower							1						
Completion													
						FLOW TES	T NO. 1						
Commenced a	t (hour,date	*)*						Zone producing	g (Upper or Lower)				
TIME	LAPSED TIME PRESSURE					-	PROD. ZONE						
(hour,date)				Upper Con	npletion	Lower Comp	oletion	TEMP	REMARKS				
								T-2-					
									THE PIC	TURED CLIFF A	ND MESAVERDE		
									FORMA	TIONS HAVE BE	EN RECOMPLETED		
									I				
		<u>.</u>							TO A SI	NGLE CHACRA	FORMATION.		
								<u></u>					
									1.				
	L												
Production r	ate during	test											
Oil:	В	OPD base	ed on		Bbls.	in	Hours		Grav.		GOR		
					-		_		-				
Gas:				MCFPD; T	ested thr	u (Orifice or	Meter):						
					MID-	TEST SHUT	-IN PRES	SURE DATA					
Upper	Hour, date	shut-in		Length of tir			SI pres.			Stabilized? (Yes	s or No)		
Completion				-							/		
Lower	Hour, date	shut-in		Length of tin	ne shut-in	····	SI press	s. psig		Stabilized? (Yes	s or No)		
Completion											,		

(Continue on reverse side)

FLOW TEST NO 1

commenced at	t /hour.date)**			Zone producing (Upp	per or Lower):		
ПМЕ	LAPSED TIME	PR	ESSURE	PROD. ZONE			
hour,date)	SINCE**	Upper Completion	Lower Completion	TEMP.	REMARKS		
				İ			
	1						
			-				
Production r	ate during test						
Oii:	BOPD has	sed on	Bbls. in	Hours.	Grav. GOR		
Gas:		MCFPD: Te	sted thru (Orifice or	Meteri:			
Remarks:							
I hereby cer	t fy that the informa	ation herein containe	d is true and complet	te to the best of my k	nowledge.		
\nproved	<u>-</u>			Operator	Meridian Oil Inc.		
New Mex	izo Oil Conservatio	n Division		Ву	Tanya Atcitty		
By				Title	Operations Associate		
Title				Date	7/12/95		

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

- A nuclear rectange test small be commenced on each multiply completed with within seven days after except that the previously produced zone shall remain shal-in widle the zone which completion of the well, and annually thereafter as prescribed by the order authorizing the was previously shall-in is produced. where the tage less shall be commenced on each multiply combleted well within seven days after what 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 of lowing recombletion and/or chemical or fracture treatment, and whenever remedial work has been sone 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.
- 2. At east 72 hours prior to the commencement of any pacter leakage test, the operator shall notify no Division in writing of the exact time the test is to be commenced. Offset operators shall also be so
- The packer leakage test shall commence when both zones of the dual completion are shut-in for ressure stabilization. Both zones shall remain some in until the well-head pressure in each has subilized, 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 requirements of 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 cas well is hearg flowed to the atmosphere due to the lack of a pipeline connection the flow period shall three hours.
 Following completion of flow Test No. 1, the well shall again be shut-in, in according to the shall again be shut-in.
- Paragraph 3 above.
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- 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 condweight pressure gauge. If a well is a gas-nil or an oil-gas dual
- cachings, with a converging pressure gauge. If a well is a gasterior an original completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above occup taken on the gaz cone.

 8. The results of the above described tests shall be filed in triplicate within 15 day 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