provided by Rule 112-A.)

Form C-107/ Revised 2-1-82

OIL CONSERVATION DIVISION

PO Box 2088 Santa Fe, New Mexico 87501



Application for Multiple Completion

		Application	on for Multiple	Completion		மொ	60pz -
<u>Opera</u>		<u> </u>	County		Date	ا عالات	CON. DIV
meria	lian Oil Inc.		Rio Arriba		Februa	ry 10, 1995	நாதா° இ
Addres	SS		Lease		Well No.		
PO B	ox 4289, Farmingtor	1,NM 87499	San Juan 28-	-6 Unit	109M		
	on of Well	Unit	Section	Township	Range		<u> </u>
1850'F	SL, 1555'FEL	J	1	27N	6W		
All ap	plications for multiple	completion	must complete	Items 1 and 2 be	elow.		
1.	The following facts are submitted:		Upper Zone	Intermediate <u>Zone</u>		Lower Zone	
a.	Name of Pool & Fo	rmation	Blanco MV			Basin DK	
b.	Top and Bottom of Pay Section (perfo		4918-5818			7480-7665	
C.	Type Production (0	Oil or Gas)	Gas			Gas	
d.	Method of Product (Flowing or Artificial		Flowing			Flowing	
e.	Daily Production ActualX Estimated Oil - barrels; Gas -	Mcf; Water	500 MCF/D 1 BOPD 0 BWPD - barrels			200 MCF/D 1 BOPD 0 BWPD	
2. a.	The following must Diagrammatic sketch of centralizers and/or turbo strings, including diamet information as may be pe	the Multiple Corr lizers and location ers and setting o	pletion, showing alon thereof, quantition	es used and top of co	ement, perfor	rated intervals,	tubing
b.	Plat showing the location addresses of operators of	n of all wells or of all leases offse	n applicant's lease, itting applicant's lea	, all offset wells on o	ffset leases,	and the name	es and
C.	Electrical log of the we	ell or other acce	eptable log with to	ps and bottoms of p	producing zo	nes and interv	rals of

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

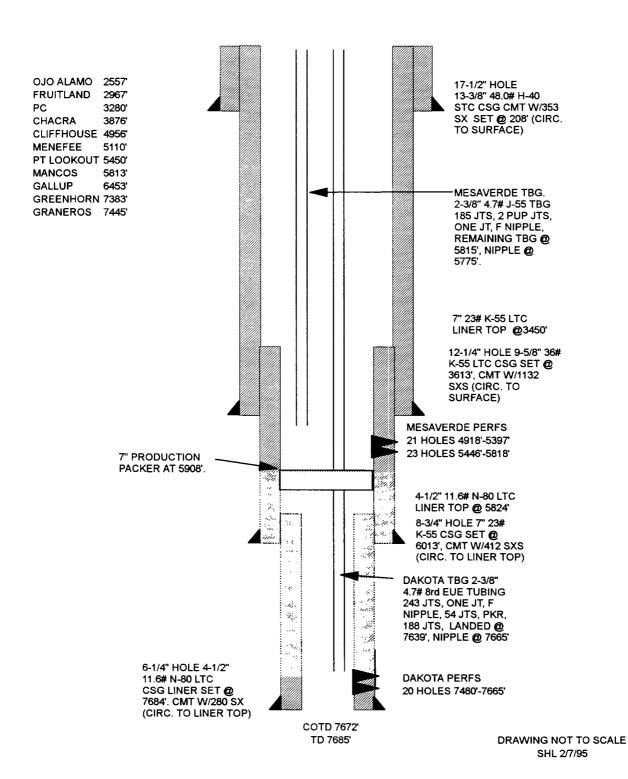
perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as

Regulatory Representative February 10, 1995

(This space for State Use).
Approved by Original Signed by FRANK T. CHANEZSUPERVISOR DISTRICT # 3 ate FEB

Note: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

San Juan 28-6 Unit #109M 1850' FSL 1555 ' FEL SECTION 1, T-27-N, R-06-W RIO ARRIBA COUNTY, NEW MEXICO FINAL WELLBORE CONFIGURATION



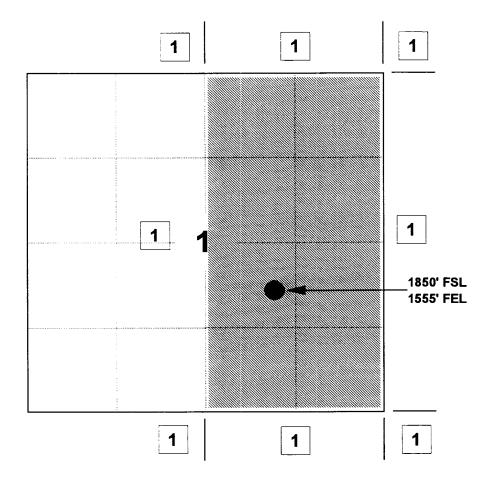
MERIDIAN OIL INC

SAN JUAN 28-6 UNIT #109M

OFFSET OPERATOR \ OWNER PLAT

Mesaverde / Dakota Formations Dual Completion Well

Township 27 North, Range 6 West



1) Meridian Oil Inc.							
			;				
		······································		·			
		- · · -					
				· · · · · · · · · · · · · · · · · · ·			

Mesaverde and Dakota Formations

OIL CONSERVATION DIVISION P.O. BOX 2088 SANTA FE, NEW MEXICO 87501

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

Form C-122 Revised 4-1-91

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator	Mendian Oil, Inc						Lease or U	nit Name San Juan 2	8-6 Unit				
Type Test	Figure Oil, Inc	·.					Test Date	Juli Juan 2		Well No.			
	X Initial	Annual	Special				. ast Date	02-07-95		109M			
Completion		Total Depth		TVD	Plug Back TD			Elevation		Unit Letter -	Sec	TWN - RNG	
11-24-94			7.685	MD	_				6,485	J-1-027N-06W			
Csg. Size	Wt.	d	Set At	Perforations:			,			County			
4 500	11.6	4 000	7,684	From	4.918		То	5,818		RIO ARRIBA			
Tbg. Size	Wt.	d	Set At	Perforations:			,			Pool			
2.375	4.7	1.995	5,815	From			То			BLANCO			
Type Well • : DUAL - DK/I		nhead - G.G. or	r G.O. Multiple	Packer Set At	: 5 908					Formation MESAVERDE			
Prod Thru		*F Mean Ann T	*F	Baro. Press.						Connection			
Tubing					12.20								
L-	Н	Gg 0.700	% CO2 0 000	% N2 0.000	9,	% H2S	Prover			Meter Run		Taps	
		FL	OW DATA	1		· · · · · · · · · · · · · · · · · · ·	<u> </u>	TUBING DA	TA	CASIN	G DATA	Duration	
	Prover		Orfice	Press.	Diff.	Temp.	Pres	s.	Temp.	Press.	Temp.	of	
NO.	Line Size	Х	Size	p.s.i.g.	hw	F* 	p.s.i	.g.	F*	p.s.i.g.	F	Flow	
SI	2		0.750					798		885		S.I.	
1.							-	318	61	791		1 Hour	
2. 3.					 - -		 	287 274	63 63	722 696		2 Hours 3 Hours	
4.				 	+ +		 	214	- 63	090		3 HOUIS	
5.						•							
				R/	TE OF FLOW	CALCULATI	ONS				,		
NO.	Coefficient (24 Hour)	-√h _w P _m		essure Flow Tem Pm Factor		tor	Gravity Factor		Super Compress.		Rate of Flow Q, Mcfd		
					F1	t	<u> </u>	Fg		Factor, Fpv	<u> </u>		
1.	11.000		286.2		0.9971		<u> </u>	1 1952		1.0000	 	3,752.00	
3.											-	-	
4.							İ						
5.							<u> </u>						
NO.	Pr	Temp. *R	Tr	z	Gas Liquid Hy API Gravity of	f Liquid Hyd	rocarbons			* .	Mcf/bbl. Deg.		
1.				 	Specific Grav Specific Grav					XXXXX	XXXXXXX	xxxxxxxxxx	
3.				 	Critical Press	-	riulu			P.S.I.A		P.S.I.A	
4.					Critical Temp					R		R	
5.										-		_	
Pc	897.20	Pc2	804.967.84	·	7								
NO.	Pt2	Pw	Pw2	Pc2 - Pw2	(1)	Pc2	=	2.6530	(2	1	n =	2.0787	
1.		708.20	501,547 24	303,420.60] `"	Pc2 - Pw2	-		- \-	Pc2 - Pw2	1		
2.] .	_	_			L .	_		
3.				 	AOF = Q	D-0		7,799.44					
<u>4.</u> 5.				 	AOF - G	Pc2 Pc2 - Pw2	- " -	1.199.44	-				
	·	. !		1	- [-	Ţ						
Absolute O	pen Flow		7,79	9	Mcfd @ 15.02	5	Angle of	Slope			Slope, n	0.75	
Remarks:											<u> </u>		
ATHEIRS.													
Approved I	By Division		Conducted By			Calculated				Checked By:			
l			<u> </u>	MICK FERRA	ARI .	1	TANYA A	TCITTY		1	LARY BYAR	RS	

OIL CONSERVATION DIVISION P.O. BOX 2088 SANTA FE, NEW MEXICO 87501

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

Form C-122

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator	Mondine Oil In						Lease or U		0.01167			
	Meridian Oil, Inc	j					Tank Date	San Juan 2	୪-6 Unit	harati ata		
Type Test	X Initial	Annuai	Special				Test Date	02-07-95		Weil No. 109M		
Completion	Date	Total Depth		TVD	Plug Back Ti	D	<u> </u>	Elevation		Unit Letter -	Sec	TWN - RNG
11-24-94			7,685	MD	7,672				6,485	J-1-027N-06W		
Csg. Size	Wt.	d :	Set At	Perforations:						County		
4 500	11.6	4.000	7.684	From	7.480		То	7.665		RIO ARRIBA		
Tbg. Size	Wt.	d	Set At	Perforations:			-			Pool		_
2.375	4.7	1.995	7,638	From			To			BASIN		
Type Well - DUAL - DK/I		nhead - G.G. or	G.O. Multiple	Packer Set At	t 5908					Formation DAKOTA		
Prod Thru	Resv Temp	*F Mean Ann T	*F	Baro. Press.	Pd					Connection		
Tubing					12.20							
Ļ	H	Gg 0.700	% CO2 0.000	% N2 0.000		% H2S	Prover			Meter Run		Taps
	_1	FL	OW DATA			<u> </u>	 	TUBING DA	\TA	CASIN	G DATA	Duration
	Prover		Orfice	Press.	Diff.	Temp.	Pres		Temp.	Press.	Temp.	of
NO.	Line Size	X	Size	p.s.i.g.	hw	F*	p.s.i.	g.	F*	p.s.i.g.	F*	Flow
SI	2		0.750				1	1730		885		S I.
1.				ļ				290	59	791		1 Hour
2. 3.			_	 			 	262	59	722	ļ <u>.</u>	2 Hours
4.				 		 	<u> </u>	239	60	696		3 Hours
5.												
					TE OF FLOW	CALCULATI	ONS					
	Coefficient		1	ssure -	l .	Temp.		Gravity		Super		Rate of Flow
NO.	(24 Hour)	-√n _w Pm	•	°m	1	ictor Ft.		Factor Fg		Compress. Factor, Fpv		Q, Mcfd
1.	11 000		251.2		1.0000	<u>- L</u>	 	1.1952		1.0000	 	3,302.66
2.												
3.												
<u>4.</u> 5.							 				 	
J.		+		T								
NO.	Pr	Temp. *R	Tr	z	1	Hydrocarbon of Liquid Hyd					<u>.</u> _	_Mcf/bbl. Deg.
1.				+	-	vity Separato					XXXXXXX	_ Deg. XXXXXXXXXXXX
2.						vity Flowing			XX	KXXXX		
3.					Critical Pres					P.S.I.A		P.S.I.A
<u>4.</u> 5.				+	Critical Tem	perature				_ R		_R
Pc Pc	897 20	Pc2	804,967.84				-			.		
NO.	Pt2	Pw	Pw2	Pc2 - Pw2]	Pc2	=	2.6530	121	Pc2] _n =	2.0787
1.	-	708.20	501.547.24	303,420.60	1 '''	Pc2 Pc2 - Pw2	-	2.0000	- *-	Pc2 - Pw2		2.0701
2.										L .		
3.			 -	+		Pc2 Pc2 - Pw2						
4. 5.		+	+	+	AOFEG	Pc2 - Pw2	- n =	6,865.36	-			
			· · · · · · · · · · · · · · · · · · ·				<u>]</u>					
Absolute O	pen Flow		6.865	5	_ Mcfd @ 15.0	25	Angle of	Slope			Slope, n	0.75
Remarks:												
Approved E	ly Division		Conducted By		_	Calculated	Bur			Charles D.		
white and F	A DIAIRIOU		Conducted By	: MICK FERRA	ARI	Calculated	"ANYA A	TCITTY		Checked By:	LARY BYAR	₹S

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

Page 1 Revised 10/01/78

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

								Well	
Operator	Meridian Oil Inc.			_ Leas	San Juan 28-6 U	nit		No.	109M
Location									
of Well:	Uni J Se	1 Twp.	27N	Rge.	06W	County	Rio Arriba	,	
	NAME OF	RESERVOIR OR POOL		T	YPE OF PROD.	метно	D OF PROD.	PROI	O. MEDIUM
				ļ	(Oil or Gas)	(Flow	or Art. Lift)	(Tbg	. or Csg.)
Upper						1		1	
Completion	Mesaverde				Gas		Flow		Г b g
Lower								ı	
Completion	Dakota	<u>.</u>		<u> </u>	Gas	<u> </u>	Flow		l bg
	·	PRE-F	LOW SHUT-IN	PRES	SURE DATA				
Upper	Hour, date shut-in	Length of time shut-in		SI pre	ss. psig		Stabilized? (Yes	or No)	
Completion	2-8-95				798				
Lower				İ					
Completion	2-7-95	l			1730				
			FLOW TEST	NO. 1					
Commenced a		,			Zone producing	Upper or I	ower)		
TIME	LAPSED TIME	PRESS	URE		PROD. ZONE	1			
(hour,date)	SINCE*	Upper Completion	Lower Compie	tion TEMP			REMARKS		
						See reve	se for test.		
						<u> </u>			
			1						
						1	-		
					<u> </u>				
		lin							
									· · · · · · ·
						1			
Production r	ate during test								
Oil:	BOPD based or	Bbls.	in	Hou	rs	_Grav.		GOR	
Gas:		MCFPD; Tested thru	(Orifice or Me	ter):	····-				
		MID-	TEST SHUT-IN	PRES	SURE DATA		,		
Upper	Hour. date shut-in	Length of time shut-in		SI pr	cs. psig		Stabilized? (Yes	or No)	
Completion									
Lower	Hour, date shut-in	Length of time shut-in		SI pr	cas. psig		Stabilized? (Yes	or No)	
Completion									

(Continue on reverse side)

FLOW TEST NO. 2

Commenced at	t (hour.date)** Zone producing (Upper or Lower): LOWER						
ТІМЕ	LAPSED TIME	PRES	SURE	PROD. ZONE			
(hour.date)	SINCE**	Upper Completion	Lower Completion	ТЕМР.	REMARKS		
1st hour		802	290				
2nd hour		804	262				
3rd hour		804	239				
							
L	l			L			

Production rate during test

Oil:	BOPD based on	Bbls. in	Hours.	Grav.	GOR	
Gas:	МСГР	or Meter):				
Remarks:						
I hereby certify	that the information herein	contained is true and cor	mplete to the best of my	knowledge.		
Approved _	proved19		Operator	Meridian Oil Inc.		
New Mexico	Oil Conservation Division		Ву	Tanya Atcitt	<u> </u>	
Ву	- 		Title	Operations A	Assistant	
Title			Date	2-10-95		

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 ahat-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.
- 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 Azteo 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).