

OIL CONSERVATION DIVISIONPO Box 2088
Santa Fe, New Mexico 87501**Application for Multiple Completion**

<u>Operator</u>	<u>County</u>	<u>Date</u>		
Meridian Oil Inc.	Rio Arriba	February 10, 1995		
<u>Address</u>	<u>Lease</u>	<u>Well No.</u>		
PO Box 4289, Farmington, NM 87499	San Juan 28-6 Unit	99M		
<u>Location of Well</u>	<u>Unit</u>	<u>Section</u>	<u>Township</u>	<u>Range</u>
1850'FNL, 1450'FWL	F	24	28N	6W

All applications for multiple completion must complete Items 1 and 2 below.

1. The following facts are submitted:

	<u>Upper Zone</u>	<u>Intermediate Zone</u>	<u>Lower Zone</u>
a. Name of Pool & Formation	Blanco MV		Basin DK
b. Top and Bottom of Pay Section (perforations)	5011-5939		7566-7744
c. Type Production (Oil or Gas)	Gas		Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
e. Daily Production	500 MCF/D		200 MCF/D
<u> </u> Actual	1 BOPD		1 BOPD
<u> X </u> Estimated	0 BWPD		0 BWPD
Oil - barrels; Gas - Mcf; Water - barrels			
2. The following must be attached:
 - a. Diagrammatic sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
 - b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
 - c. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

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

Regulatory RepresentativeFebruary 10, 1995

(This space for State Use)

Approved by ORIGINAL SIGNED BY ERNIE BUSCH**DEPUTY OIL & GAS INSPECTOR, DIST. #3**Date **MAR - 1 1995**

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.

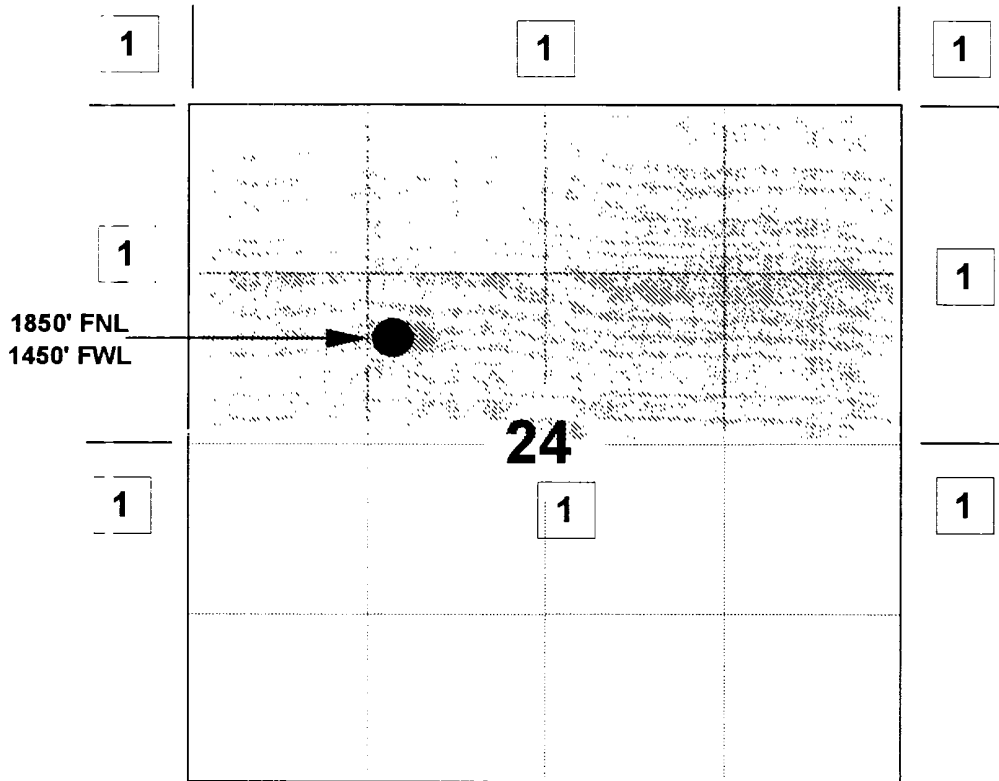
MERIDIAN OIL INC

SAN JUAN 28-6 UNIT #99m

OFFSET OPERATOR \ OWNER PLAT

Mesaverde / Dakota Formations Dual Completion Well

Township 28 North, Range 6 West

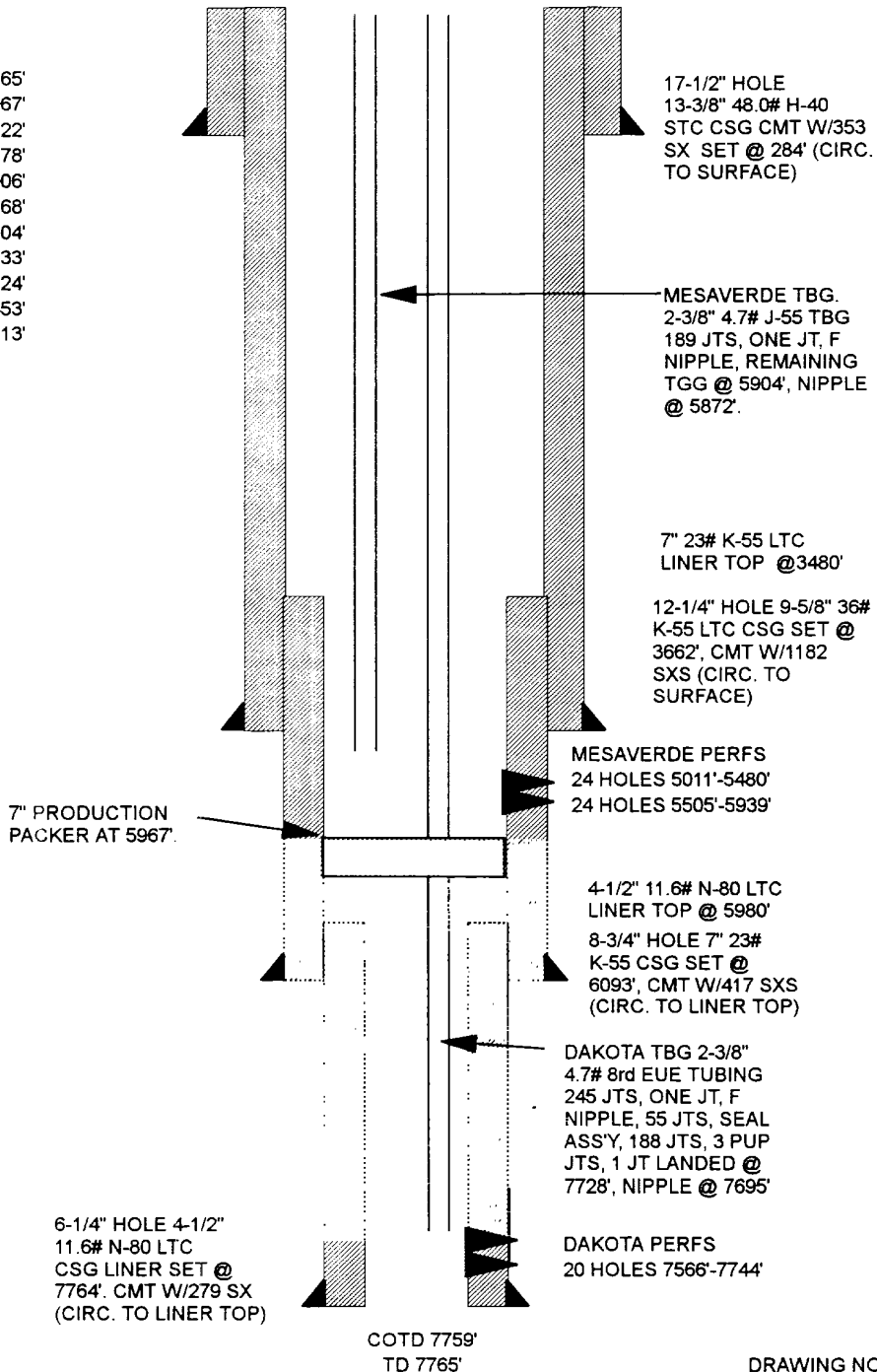


1) Meridian Oil Inc

Mesaverde and Dakota Formations

San Juan 28-6 Unit #99M
1850' FNL 1450' FWL
SECTION 24, T-28-N, R-06-W
RIO ARriba COUNTY, NEW MEXICO
FINAL WELLBORE CONFIGURATION

OJO ALAMO 2565'
FRUITLAND 3067'
PC 3322'
CHACRA 4278'
CLIFFHOUSE 5006'
MENELEE 5168'
PT LOOKOUT 5504'
MANCOS 5933'
GALLUP 6524'
GREENHORN 7453'
GRANEROS 7513'



DRAWING NOT TO SCALE
SHL 2/7/95

**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 Meridian Oil, Inc.						Lease or Unit Name San Juan 28-6 Unit					
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special						Test Date 02-21-95		Well No. 99M			
Completion Date 01-26-95		Total Depth 7 765		TVD MD		Plug Back TD		Elevation 6,500		Unit Letter - Sec. - TWN - RNG F-24-028N-06W	
Csg. Size 4 500		Wt. 11 6		d 4 000		Set At 7 764		Perforations: From 5 011 To 5 939			
Tbg. Size 2 375		Wt. 4 7		d 1 995		Set At 5 904		Perforations: From To			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple DUAL - DK/MV						Packer Set At 5967				Formation MESAVERDE	
Prod Thru Tubing		Resv Temp °F		Mean Ann T °F		Baro. Press. Pd 12 20				Connection	
L		H		Gg 0 700		% CO2 0 000		% N2 0 000		% H2S	
								Prover		Meter Run	
										Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. F°	Press. p.s.i.g.	Temp. F°	Press. p.s.i.g.	
SI	2		0 750				655		655	
1.							261	33	590	
2.							255	32	561	
3.							231	32	539	
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure Pm	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.	11 000		243 2	1 0281	1 1952	1 0000	3 287 26
2.							
3.							
4.							
5.							

NO.	Pr	Temp. °R	Tr	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					API Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	XXXXXXXXXXXXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXXX
4.					Critical Pressure	P.S.I.A
5.					Critical Temperature	R

Pc	667 20	Pc2	445 155 84
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NO.	Pt2	Pw	Pw2	Pc2 - Pw2
1.		551 20	303 821 44	141 334 40
2.				
3.				
4.				
5.				

(1) $\frac{Pc2}{Pc2 - Pw2} = 3 1497$

AOF = Q $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 7 771 99$

(2) $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 2 3643$

Absolute Open Flow	7 772	Mcf @ 15.025	Angle of Slope		Slope, n	0 75
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Remarks:

Approved By Division	Conducted By: MICK FERRARI	Calculated By: TANYA ATCITY	Checked By: LARY BYARS
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SANTA FE, NEW MEXICO 87501

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Meridian Oil, Inc.					Lease or Unit Name San Juan 28-6 Unit				
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 02-21-95		Well No. 99M		
Completion Date 01-26-95		Total Depth 7,765		TVD MD		Plug Back TD		Elevation 6,500	
Unit Letter F-24-028N-06W		Sec.		TWN		RNG			
Csg. Size 4.500		Wt. 11.6		d 4.000		Set At 7,764		Perforations:	
						From 7,566		To 7,744	
Tbg. Size 2.375		Wt. 4.7		d 1.995		Set At 7,728		Perforations:	
						From		To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple DUAL - DK/MV					Packer Set At 5967				
Formation DAKOTA					County RIO ARRIBA				
Prod Thru Tubing		Resv Temp °F		Mean Ann T °F		Baro. Press. Pd 12.20		Connection	
L	H	Gg 0.700	% CO2 0.000	% N2 0.000	% H2S	Prover		Meter Run	Taps
FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. F°	Press. p.s.i.g.	Temp. F°	Press. p.s.i.g.
SI	2		0.750				1463		655
1.							139	38	590
2.							121	38	561
3.							111	39	539
4.									
5.									
RATE OF FLOW CALCULATIONS									
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure Pm	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor Fpv	Rate of Flow Q, Mcfd		
1.	11.000		123.2	1.0208	1.1952	1.0000	1,653.53		
2.									
3.									
4.									
5.									
NO.	Pr	Temp. °R	Tr	Z	Gas Liquid Hydrocarbon Ratio		Mcft/bbl.		
1.					API Gravity of Liquid Hydrocarbons		Deg.		
2.					Specific Gravity Separator Gas		XXXXXXXXXXXXXXXXXXXX		
3.					Specific Gravity Flowing Fluid		XXXXXXX		
4.					Critical Pressure		P.S.I.A		P.S.I.A
5.					Critical Temperature		R		R
Pc 667.20		Pc2 445.155.84							
NO.	Pt2	Pw	Pw2	Pc2 - Pw2					
1.		55.20	303.821.44	141.334.40					
2.									
3.									
4.									
5.									
					<div style="display: flex; justify-content: space-around;"> <div> (1) $\frac{Pc2}{Pc2 - Pw2} = 3.1497$ </div> <div> (2) $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 2.3643$ </div> </div> <div style="margin-top: 10px;"> $AOF = Q \left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 3.909.40$ </div>				
Absolute Open Flow 3.909 Mcfd @ 15.025					Angle of Slope		Slope, n 0.75		
Remarks:									
Approved By Division			Conducted By: MICK FERRARI		Calculated By: TANYA ATCITTY		Checked By: LARY BYARS		

OIL CONSERVATION DIVISION

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Meridian Oil Inc. Leas San Juan 28-6 Unit Well No. 99M

Location

of Well: Uni F Se 24 Twp. 28N Rge. 06W County Rio Arriba

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (Oil or Gas)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	<u>Mesaverde</u>	<u>Gas</u>	<u>Flow</u>	<u>Tbg</u>
Lower Completion	<u>Dakota</u>	<u>Gas</u>	<u>Flow</u>	<u>Tbg</u>

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in <u>2-21-95</u>	Length of time shut-in	SI press. psig <u>655</u>	Stabilized? (Yes or No)
Lower Completion	<u>2-21-95</u>		<u>1463</u>	

FLOW TEST NO. 1

Commenced at (hour,date)*				Zone producing (Upper or Lower)	
TIME (hour,date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE TEMP	REMARKS
		Upper Completion	Lower Completion		
					<u>See reverse for test.</u>

Production rate during test

Oil: BOPD based on Bbls. in Hours. Grav. GOR

Gas: MCFPD; Tested thru (Orifice or Meter):

MID-TEST SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Lower Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)

(Continue on reverse side)