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						Lease or Unit Name		
Meridian Oil, Inc.						San Juan 32-9		
Type Test: [X] Initial [ ] Annual [ ] Special						Test Date: 08-03-94	Well No.: #41A	
Completion Date: 07-28-94	Total Depth: 6,250	TVD / MD	Plug Back TD: 6,238		Elevation: 6,765	Unit Letter: P	Sec.: 31	TWN - RNG: 32N - 9W
Csg. Size: 4 1/2"	Wt.: 10.5#	d: K-55	Set At: 6,250	Perforations: From 6,224	To 5,166	County: San Juan		
Tbg. Size: 2 3/8"	Wt.: 4.7	d: J-55	Set At: 6,159	Perforations: From	To	Pool: Blanco Mesa Verde		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single			Packer Set At: 3810			Formation: Mesa Verde		
Prod Thru: Tubing	Resv Temp °F	Mean Ann T °F	Baro. Press. Pd: 12.20			Connection		

L	H	Gg	% CO2	% N2	% H2S	Prover	Meter Run	Taps
		0.660	1.700	0.180				

FLOW DATA						TUBING DATA		CASING DATA		
NO.	Prover Line Size	X Orfice Size	Press. p.s.i.g.	Diff. hw	Temp. F°	Press. p.s.i.g.	Temp. F°	Press. p.s.i.g.	Temp. F°	Duration of Flow
SI	2 x 6	0.750				367		367	Packer	S.I.
1.						108	71			1 Hour
2.						102	68			2 Hours
3.						110	70	272.8	Calc	3 Hours
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		122.2	0.9905	1.2309	1.0000	1,638.90
2.							
3.							
4.							
5.							

NO.	Pr	Temp. °R	Tr	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
API Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXXXXXXXXXX
Specific Gravity Flowing Fluid XXXXXXX _____
Critical Pressure _____ P.S.I.A _____ P.S.I.A
Critical Temperature _____ R _____ R

Pc 379.20 Pc2 143,792.64

NO.	Pt2	Pw	Pw2	Pc2 - Pw2
1.		285.00	81,225.00	62,567.64
2.				
3.				
4.				
5.				

(1) $\frac{Pc2}{Pc2 - Pw2}$ = 2.2982 (2) $\left[\frac{Pc2}{Pc2 - Pw2}\right]^n$ = 1.8666

$AOF = Q\left[\frac{Pc2}{Pc2 - Pw2}\right]^n$ = 3,059.10

Absolute Open Flow 3,059 **Mcfd @ 15.025** | **Angle of Slope** _____ | **Slope, n** 0.75

Remarks: Heavy water mist throughout test

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Steve Starnets	Stanley E. Terwilliger	Gary L. Osborne