

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

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

Form C-122
Revised 4-1-81

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Meridian Oil, Inc.					Lease or Unit Name [REDACTED]				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 01-06-94		Well No. [REDACTED]		
Completion Date 12-05-93		Total Depth 6,460		TVD MD		Plug Back TD 9,417		Elevation 7,094	
Csg. Size 7 000		Wt. 20		d K-55		Set At 4,145		Perforations: From 3,776 To 3,826	
Tbg. Size 2 3/8"		Wt. 47		d J-55		Set At 6,200		Perforations: From 4,713 To 6,279	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple COMMINGLE					Packer Set At None				
Prod Thru Tubing		Resv Temp °F		Mean Ann T °F		Baro. Press. Pd 12.20		Formation PICTURED CLIFFS/MESA VERDE	
L		H		Gg 0.700		% CO2 0.000		% H2S 0.000	
						Prover		Meter Run	
								Taps	

FLOW DATA					TUBING DATA				CASING DATA		Duration of Flow
NO.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. F°	Press. p.s.i.g.	Temp. F°	Press. p.s.i.g.	Temp. F°		
SI	2 X 6	0.750				600		825		SI	
1.						190	60.5	705		1 Hour	
2.						170	62.8	652		2 Hours	
3.						164	63.5	641		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		176.2	0.9986	1.1952	1.0000	2,308.83
2.							
3.							
4.							
5.							

NO.	Pr	Temp. °R	Tr	Z	Gas Liquid Hydrocarbon Ratio	API Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Mcft/bbl Deg.
1.											
2.											
3.											
4.											
5.											

NO.	Pc2	Pw	Pw2	Pc2 - Pw2
1.	653.20	426.670.24	274,233.60	
2.				
3.				
4.				
5.				

(1) $\frac{Pc2}{Pc2 - Pw2} = 2.5559$

AOF = Q $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 4,667.08$

(2) $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 2.0214$

Absolute Open Flow	4,667	Mcfd @ 15.025	Angle of Slope		Slope, n	0.75
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Remarks:

Approved By Division	Conducted By: BURL APPLEGATE	Calculated By: SUSAN DOLAN	Checked By: BRUCE VOILES
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