

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

Form C-122
Revised 4-1-91

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Mendian Oil, Inc.					Lease or Unit Name HUERFANITO UNIT				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 01-11-94		Well No. 78M		
Completion Date 09-16-93		Total Depth 6,577		TVD MD		Plug Back TD 6,533		Elevation 5,181	
Unit Letter I-33-027N-309W		Sec. -		TWN -		RNG -		County SAN JUAN	
Csg. Size 4 5/8"		Wt. 12		Set At K-55		Perforations: From 4,297 To 4,617		Pool BASIN/BLANCO	
Tbg. Size 2 3/8"		Wt. 4.7		Set At J-55		Perforations: From 6,475 To 6,525		Formation MESAVERDE/DAKOTA	
Type Well - Single - Bradenheat - G.G. or G.O. Multiple COMINGLE					Packer Set At None				
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°	
1.	2 X 6		0.750				760	1201	51
2.							279	826	1 Hour
3.							135	697	2 Hours
4.							87	603	3 Hours
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 Fsp	Rate of Flow Q, Mcfd
1.	11.000		99.2	0.9804	1.1952	1.0000	1.27865
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	Mcf/bbl. Deg.
1.											XXXXXXXXXXXXXXXXXXXX
2.											
3.											
4.											
5.											

NO.	Pc	P12	Pw	Pw2	Pc2 - Pw2
1.	1213.20		615.20	378.471 04	1 093 383.20
2.					
3.					
4.					
5.					

(1) $\frac{Pc2}{Pc2 - Pw2} = 1.3461$		(2) $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 1.2497$	
AOF = Q $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 1.597 98$			

Absolute Open Flow	1 598	Mcfd @ 15.025	Angle of Slope	Slope, n	0.75
Remarks:					

Approved By Division	Conducted By: KENNY CULBERTSON	Calculated By: SUSAN DOLAN	Checked By: BILL HUNTINGTON
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RECEIVED
JAN 28 1994
OIL CON. DIV.
DIST. 3