

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

Form C-122
Revised 4-1-84

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: <u>Mendian Oil Co.</u>					Lease or Unit Name: <u>HUERFANITO UNIT</u>				
Type Test: ☒ Initial ☐ Annual ☐ Special					Test Date: <u>01-12-94</u>		Well No.: <u>78M</u>		
Completion Date: <u>08-19-93</u>		Total Depth: <u>6804</u>		Plug Back TD: <u>6767</u>		Elevation: <u>6232</u>		Unit Letter - Sec. - TWN - RNG: <u>29-027N-009W</u>	
Csg. Size: <u>4 5/8</u> Wt. <u>12</u> d. <u>1.315</u>		Set At: <u>6804</u>		Perforations: <u>From 4750 To 4405</u>		County: <u>SAN JUAN</u>			
Tbg. Size: <u>2 3/8</u> Wt. <u>4.7</u> d. <u>1.315</u>		Set At: <u>6800</u>		Perforations: <u>From 6482 To 6736</u>		Pool: <u>BASIN/BLANCO</u>			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: <u>COMMINGLE</u>					Packer Set At: <u>None</u>		Formation: <u>MESAVERDE/DAKOTA</u>		
Prod Thru Tubing: <u>L</u>		Resv Temp. °F: <u>110</u>		Mean Ann T. °F: <u>110</u>		Baro. Press. Pd: <u>12.20</u>		Connection: <u></u>	
L: <u>1</u>		H: <u>1</u>		Bg: <u>1.315</u>		% CO2: <u>0.000</u>		% H2S: <u>0.000</u>	
Prover: <u>2 X 4</u>		Office Size: <u>1.750</u>		Press. p.s.i.g.: <u>900</u>		Temp. F°: <u>77</u>		Press. p.s.i.g.: <u>1200</u>	
NO. <u>1</u>		X		Diff. inw: <u>323</u>		Temp. F°: <u>81</u>		Press. p.s.i.g.: <u>812</u>	
NO. <u>2</u>				Diff. inw: <u>162</u>		Temp. F°: <u>81</u>		Press. p.s.i.g.: <u>888</u>	
NO. <u>3</u>				Diff. inw: <u>113</u>		Temp. F°: <u>81</u>		Press. p.s.i.g.: <u>582</u>	
NO. <u>4</u>				Diff. inw: <u></u>		Temp. F°: <u></u>		Press. p.s.i.g.: <u></u>	
NO. <u>5</u>				Diff. inw: <u></u>		Temp. F°: <u></u>		Press. p.s.i.g.: <u></u>	

FLOW DATA					TUBING DATA			CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Office Size	Press. p.s.i.g.	Diff. inw	Temp. F°	Press. p.s.i.g.	Temp. F°	Press. p.s.i.g.	Temp. F°
1	2 X 4		1.750	900	323	77	1200	812	812	81
2				162	162	81	888	888	888	81
3				113	113	81	582	582	582	81
4										
5										

RATE OF FLOW CALCULATIONS						
NO.	Coefficient (24 Hour)	$\sqrt{P_{1m} - P_{2m}}$	Pressure Pm	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor Fpv
1	11.900		125.2	0.9804	1.952	1.0000
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											

Pc	1212.20	Pc2	1469.42854
NO.	P12	Pw	Pw2
1		594.20	353.07354
2			
3			
4			
5			

(1) $\frac{Pc2}{Pc2 - Pw2} = 1.3163$

AOF = Q $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 1.98315$

(2) $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 1.2289$

Absolute Open Flow	1.983	Mcf/d @ 15.025	Angle of Slope	Slope, n	0.75
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Remarks:			
Approved By Division	Conducted By: <u>KENNY CULBERTSON</u>	Calculated By: <u>SUSAN DOLAN</u>	Checked By: <u>BILL HUNTINGTON</u>

RECEIVED
JAN 23 1994
OIL CONSERVATION DIVISION