

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

STATE OF NEW MEXICO
OIL AND GAS CONSERVATION DEPARTMENT

Form C-122
Revised 4-1-91

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR CAS WELL

Operator Mendian Oil Inc					Lease or Unit Name HUERFANITO UNIT					
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 1-14-93					
Completion Date 08-05-93		Total Depth 6,768		TVD MD	Plug Back TD 6,723		Elevation 6,292		Well No. 58M	
Csg. Size 4.500		Wt. 10	d K-55	Set At 6,768	Perforations: From 4,080 To 4,695		Unit Letter - Sec. - TWN - RNG 0-35-027N009W			
Tbg. Size 2.375		Wt. 4.7	d J-55	Set At 6,600	Perforations: From 6,475 To 6,722		County SAN JUAN			
Type Well - Single - Braker head - G.G. or G.O. Multiple COMMINGLE					Packer Set At None					
Prod Thru Tubing L		Resv Temp *F H		Mean Ann T *F Gg 0.700 % CO2 0.000		Baro. Press. Pd 12.20		Formation MESAVERDE/DAKOTA		
								Connection		
								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.	
1.	2 X 6		0.750				305		920	S.I.
2.							127	82	707	1 Hour
3.							101	83	595	2 Hours
4.							62	83	528	3 Hours
5.										
RATE OF FLOW CALCULATIONS										
NO.	Coefficient (24 Hour)	$\sqrt{hw P_m}$	Pressure Pm	Flow Temp. Factor Ft.	Cavity Factor Fg	Super. Comp. Factor Fpv	Rate of Flow Q, Mcfd			
1.	11.000		74.2	0.9786	1.952	1.0000	954.65			
2.										
3.										
4.										
5.										
NO.	P _r	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio		Mcf/bbl. Deg.			
1.					API Gravity of Liquid Hydrocarbons		XXXXXXXXXXXXXXXXXXXX			
2.					Specific Gravity Separator Gas		XXXXXXXXXXXXXXXXXXXX			
3.					Specific Gravity Flowing Fluid		XXXXXXXXXXXXXXXXXXXX			
4.					Critical Pressure		P.S.I.A		P.S.I.A	
5.					Critical Temperature		R		R	
Pc		932.20	Pc2		858.99684					
NO.	P-2	Pw	Pw2	Pc2 - Pw2						
1.		538.20	259.65924	579.33760						
2.										
3.										
4.										
5.										
					(1) $\frac{Pc2}{Pc2 - Pw2} = 1.0000$		(2) $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 1.3554$			
					AOF = Q $\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 1.9392$					
Absolute Open Flow					1.294	Mcf/d @ 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	

RECEIVED
JAN 28 1994
OIL CON. DIV
DIST 6