

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form O-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2-23-79	
Company Manana, Inc.				Connection El Paso Natural Gas Company			
Pool unnamed				Formation Fruitland		Unit	
Completion Date 2-14-79		Total Depth 2350		Plug back T.D. 2312		Elevation 5743 GL	
Csg. Size 2.875		Wt. 6.4		Set At 2340		Perforations: From 1950 To 2055	
Trq. Size 1.660		Wt. 2.44		Set At 2229		Perforations: To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas-Gas Dual						Packer Set At 2068	
Producing Thru Casing		Reservoir Temp. °F 6		Mean Annual Temp. °F 12		State New Mexico	
L 1950		H 0.65		Gg 0		Prover 0.75	
				% CO ₂ 0		% H ₂ S 0	
						Meter Run 4	
						Days 30	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
1.	2"		0.750				321		57	56	3 hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super. Compress. Factor, F _{pv}	Rate of Flow Q, Mscf
1	12.365		69	1.0039	0.9608	1.009	830
2							
3							
4							
5							

NO.	P _t	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1				A.P.L. Gravity of Liquid Hydrocarbons _____ Deg.
2				Specific Gravity Separator Gas _____ X X X X X X X X X
3				Specific Gravity Flowing Fluid _____ X X X X X
4				Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5				Critical Temperature _____ R _____ R

NO.	P _t ²	P _w ²	P _w ³	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 1.0595$ (2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.0504$ Add = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 872$
1	4761	174	30276	508480	
2					
3					
4					

Absolute Open Flow _____ 872 _____ Mcf @ 14.7/25		Angle of Slope _____		Slope, n _____ 0.85
Remarks: 3/4" Thornhill Craver Choke.				
Approved By: _____		Conducted By: _____		Checked By: _____
H. E. McAnally		H. E. McAnally		Curtis J. Little