

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-16-86		
Company MANANA GAS INC.			Connection Not under Contract			
Pool Otero Chacra			Formation CHACRA			
Completion Date 10-16-86		Total Depth 2915		Plug Back TD 2885		
				Elevation 5486 GL		
Csg. Size 4.50"			Well No. 10.5		Set At 2891	
Thg. Size 2.375"					Set At 2796	
Type Well - Single - Dradendhead - G.G. or G.O. Multiple SINGLE CHACRA			Packer Set At			
Producing Thru TBG			Reservoir Temp. °F p		Mean Annual Temp. °F	
			Baro. Press. - P _a		State N.M.	
L		H		Cg		
				% CO ₂		
				% N ₂		
				% H ₂ S		
				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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							902		924	
1.			.750				51	58	202	
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.3650		63	1.002	.9608	1.009	757
2.							
3.							
4.							
5.							

NO.	P _i	Temp. °R	T _i	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas .650 est. XXXXXXXXXX
3.					Specific Gravity Flowing Fluid XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 936	P _c 876096					
NO	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0552$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0411$
1		214	45796	830300		
2						
3						
4						
5						

Absolute Open Flow 788		Mcf @ 15.025		Angle of Slope 0		Slope .75	
Remarks: LIGHT FOG OF WATER THROUGH OUT TEST							
OCT 24 1986							
OIL CON. DIV.							
Approved By Division		Conducted By: C.R. WAGNER		Calculated By: C.R. WAGNER		Checked By:	