

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3/8/80	
Company Manana Gas, Inc.				Connection El Paso Natural Gas Company			
Pool Basin				Formation Dakota		Unit	
Completion Date 2/29/80		Total Depth 6484		Plug Back TD 6441		Elevation 5483 CH	
Csg. Size 4.500		Wt. 10.5		Set At 6484		Perforations: From 6197 To 6412	
Tub. Size 2.375		Wt. 4.7		Set At 6198		Perforations: From Open ended	
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Single						Pecker Set At none	
Producing Thru Tubing		Reservoir Temp. °F 6		Mean Annual Temp. °F 12		Baro. Press. - P _a 12	
L		H		Gg		State New Mexico	
		0.730		% 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.	Temp. °F	
51							1794		1816		8 days
1.	2"		.75	60		65			301		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 _L	Gravity Factor F _g	Super. Compres. Factor, F _{pv}	Rate of Flow Q, Mgd
1	12.365		72	.9952	.9066	1.011	812
2							
3							
4							
5							

NO.	P _c	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/cbl.
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

P _c 1828	P _c ² 3 341 584	
NO.	P _c ²	P _w ²
1	5184	313
2		
3		
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0279$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0208$	
ACT = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 829$			

Absolute Open Flow	829	McFE 15.025	Angle of Slope θ
Remarks:			

Approved by Commission:	Conducted By:	Calculated By:	Checked By:
	H. E. McAnally	H. E. McAnally	

