

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

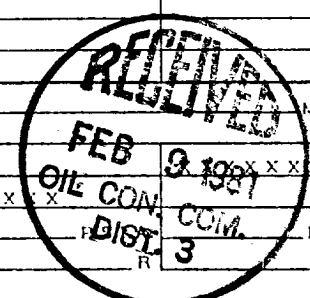
Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 2-7-81	
Company Manana Gas Inc.				Connection EPNG		
Pool Fulcher Kutz				Formation PC		Unit
Completion Date 1-29-81		Total Depth 1905		Plug Back TD 1903		Elevation 5678 GL
Farm or Lease Name Maxey Fed.		Well No. 1 J				
Csg. Size 2.875	Wt. 6.5	d 2.441	Set At 1903	Perforations: From 1759 To 1824		Well No.
Tbg. Size 1.660	Wt. 2.4	d 1.380	Set At 1788	Perforations: From To		Unit Sec. Twp. Rge. H 24 29 12
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At		County San Juan
Producing Thru Tbg.		Reservoir Temp. °F @		Mean Annual Temp. °F		State New Mexico
L	H	Gg 0.625	% 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	
SI							135		166		9 days
1.	2"		0.375	11		57			146		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 Ft	Gravity Factor Fg	Super. Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	3.142		23	1.0029	0.9798	1.004	71
2.							
3.							
4.							
5.							

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



P _c 178	P _c ² 31684		
NO.	P _r ²	P _w ²	P _c ² - P _w ²
1	158	24964	6720
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.7149$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.7364$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 268$

Absolute Open Flow	268	Mcfd @ 15.025	Angle of Slope @	Slope, n 0.85
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Remarks: The well unloaded a heavy spray of water throughout the test.

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