NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] 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.	
Csg. Size: 2.875 / Wt.: 6.5 / d: 2.441 / Set At: 1903		Perforations: From 1759 To 1824		Well No.: 1 J	
Tbg. Size: 1.660 / Wt.: 2.4 / d: 1.380 / Set At: 1788		Perforations: From To		Unit: H / Sec.: 24 / Twp.: 29 / Rge.: 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:	Baro. Press. – P_a: 12	State: New Mexico	
L: . / H: / Gg: 0.625	% CO_2: / % N_2: / % H_2S:	Prover: / Meter Run: / Taps:			

FLOW DATA						TUBING DATA		CASING DATA		
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	Duration of Flow
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
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A.
Critical Temperature _____ R

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P_c 178 P_c^2 31684

NO	P_t^2	P_w	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 θ _____ | Slope, n 0.85

Remarks: The well unloaded a heavy spray of water throughout the test.

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