

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 4/12/80	
Company MANANA GAS, INC.			Connection EL PASO NATURAL GAS CO.		
Pool AZTEC			Formation FARMINGTON		Unit
Completion Date 4/12/80		Total Depth 1090		Plug Back TD 1080	Elevation 5551 GL
Farm or Lease Name MARY ACKROED		Well No. 1			
Crag. Size 2.875	Wt. 10.40	d 1.750	Set At 1090	Perforations: From 564 To 1066	
Thq. Size none	Wt.	d	Set At	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At none	
Producing Thru Casing		Reservoir Temp. °F θ		Mean Annual Temp. °F	
Baro. Press. - P _a		State New Mexico			
L	H	Gg 0.625	% CO ₂	% N ₂	% H ₂ S
Provor 2"		Meter Run		Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Provor 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"		0.500						229		7 days
2.									120	49	3 hours
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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	5.6530		132	1.0108	0.9798	1.012	748
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ 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 241 P _c ² 58081				
NO.	P _f ²	P _w	P _w ²	P _f ² - P _w ²
1	17424	143	20449	37632
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5434$

AOR = Q · $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1082$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4461$

Absolute Open Flow	1082	Mcf @ 15.025	Angle of Slope θ	0.85
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Remarks: Well produced heavy fog of water throughout test.

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