

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 9-2-80			
Company El Paso Natural Gas Company				Connection El Paso Natural Gas Company					
Pool Blanco				Formation Mesa Verde				Unit San Juan 29-7	
Completion Date 7-27-80		Total Depth 8112		Plug Back TD 8104		Elevation 6867 G.L.		Farm or Lease Name San Juan 29-7 Unit	
Csg. Size 7.000	Wt. 23.0	d 6.366	Set At 6414	Perforations: From 5167 To 6218		Well No. #49A (MV)			
Tng. Size 1.900	Wt. 2.9	d 1.610	Set At 6205	Perforations: From To		Unit I	Sec. 20	Twp. 29	Rge. 7
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Dual				Packer Set At 6247		County Rio Arriba			
Producing Thru Csg.		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L	H	Gg 0.690	% 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							628		677		37 Days
1.	Choke		0.750	380		65	534				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, p _{sc}	Rate of Flow Mcfd
1	12.365		392	0.9952	0.9325	1.044	1469
2.							
3.							
4.							
5.							

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

P _c 689	P _c ² 474721	
NO.	P _t ²	P _w ²
1	546	298116
2.		
3.		
4.		
5.		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.6880$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 9858$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.0993$

Absolute Open Flow	9858	Mcf @ 15.025	Angle of Slope @	Slope, n	0.750
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Remarks: The Well Produced 671 MCF Gas During The Test.

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