

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 9-22-81			
Company El Paso Natural Gas Company				Connection					
Pool Blanco				Formation Mesa Verde				Unit	
Completion Date 9-8-81		Total Depth 8047		Plug Back TD 8039		Elevation		Farm or Lease Name San Juan 29-7 Unit	
Log. Size 9.625	Wt. 40	d 8.835	Set At 3890	Perforations: From *5177 To 6138		Well No. #86A			
Teg. Size 1.900	Wt. 2.9	d 1.610	Set At 6075	Perforations: From To		Unit Sec. Twp. Hgt. E 17 29 7			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual						Packer Set At 6240		County Rio Arriba	
Producing Thru Csg.		Reservoir Temp. *F a		Mean Annual Temp. *F		Baro. Press. - P _a 12		State New Mexico	
L	H	Gg .660	% 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							675		671		14 Days
1.			.750	424		65	531		424		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	12,365		436	.9952	.9535	1.047	5356
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	XXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P_c 687 P_c² 471969

NO.	P _w	P _w ²	P _c ² - P _w ²
1	543	294849	177120
2.			
3.			
4.			
5.			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{471969}{177120}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.0856$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 11171$

Absolute Open Flow	11,171	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks:	* 7.000" Liner - 3686' - 6379'
	* 4.500" Liner - 6266' - 8047'

Approved By Commission:	Conducted By: N.L. Waggoner	Calculated By: Ed Mabe	Checked By:
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