

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 9-24-80			
Company El Paso Natural Gas Company				Connection					
Pool Blanco				Formation Mesa Verde				Unit	
Completion Date 8-29-80		Total Depth 7432		Plug Back TD 7422		Elevation 6220 GR		Farm or Lease Name San Juan 29-7 Unit	
Csg. Size 9.625	Wt. 40	d 8.835	Set At 3319	Perforations: From *4588 To 5558		Well No. #77A			
Tbg. Size 1.900	Wt. 2.9	d 1.610	Set At 5566	Perforations: From To		Unit 0	Sec. 33	Twp. 29	Rge. 7
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Dual						Packer Set At 5578		County Rio Arriba	
Producing Thru Csg.		Reservoir Temp. *F @		Mean Annual Temp. *F		Baro. Press. - P _g 12		State New Mexico	
L	H	G _g .650	% 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									1022		27 Days
1.	Choke		.750	537		72					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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		549	.9887	.9608	1.057	6816
2.							
3.							
4.							
5.							

NO.	P _t	Temp. *R	T _r	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
3					Specific Gravity Flowing Fluid	_____ P.S.I.A.
4					Critical Pressure	_____ R
5					Critical Temperature	_____ R

P _c 1034	P _c ² 1069156			
NO.	P _t	P _w	P _w ²	P _c ² - P _w ²
1	301401	552	304599	764557
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1069156}{764557}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 8765$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2859$

Absolute Open Flow	8765	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks: * 7" Liner 3189' - 5713'
* 4.5 Liner 5608' - 7432'

Approved By Commission:	Conducted By: John Easley	Calculated By: Ed Mabe	Checked By:
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