

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 7-22-81	
Company El Paso Natural Gas Company				Connection Northwest Pipeline		
Pool Basin				Formation Dakota		Unit San Juan 27-5
Completion Date 7-15-81		Total Depth 8604		Plug Back TD 8594	Elevation 7334 GR	Farm or Lease Name San Juan 27-5 Unit
Csg. Size 9.625	Wt. 40.0	d 8.835	Set At 4543	Perforations: From 8352 To 8558		Well No. #86M
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 8511	Perforations: From 8345 To 8350		Unit Sec. Twp. Rge. J 9 27 5
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual				Packer Set At 6772		County Rio Arriba
Producing Thru Tbg.		Reservoir Temp. °F @		Mean Annual Temp. °F 12		State New Mexico
L	H	Gg .658	% CO ₂	% N ₂	% H ₂ S	Prover Meter Run Taps 4" Flg.

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							2435				7 Days
1.	4" X 2.50"			35	5.5	72	160				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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	103.21	11.923	47	0.9887	1.233	1.000	1500
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	
3.					Specific Gravity Flowing Fluid	
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 2447	P _c ² 5,987,809	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0161$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0120$
NO. P _f ²	P _w	P _w ²	P _c ² - P _w ²
1 29,584	308	94,864	5,892,945
2			
3			
4			
5			

Absolute Open Flow _____ Mcfd @ 15.025		Angle of Slope θ _____	Slope, n <u>75</u>
Remarks: * 7" Liner - 4400 to 6955. 4 1/2" Liner - 6842 to 8604 Liquid Produced - 0.8 Bbl Oil 12.8 Bbls Water Gas Vented - 234 MCF			
Approved By Commission:	Conducted By: Bill Clark	Calculated By: Bill Clark	Checked By: