

**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 2-10-86			
Company El Paso Natural Gas Co.				Connection			
Pool Blanco				Formation Mesa Verde		Unit	
Completion Date 2-10-86		Total Depth 7673		Plug Back TD 7659		Elevation 6478 GR	
Farm or Lease Name S.J. 27-5 U.		Well No. #139 M					
Csq. Size 9.625	Wt. 48	d 8.681	Set At 3569	Perforations: From 4896* To 5900			
Tbg. Size 1.900	Wt. 2.9	d 1.610	Set At 5892	Perforations: From To			Unit Sec. Twp. Rge. E 20 27 05
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Dual				Packer Set At 5921		County Rio Arriba	
Producing Thru Tbg.		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12	
State New Mexico							
L	H	Gg .700	% 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							972		1001		7 Days
1.			.750	194		45	194		777		3 Hrs.
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		206	1.0147	.9258	1.025	2453
2.							
3.							
4.							
5.							

NO.	P _t	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 1113 P _c ² 1238769				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1238769}{616248}$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6882$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²			
1		789	622521	616248			
2							
3							
4							
5							

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4141$			
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Absolute Open Flow 4141 Mcfd @ 15.025		Angle of Slope @ _____	Slope, n _____
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Remarks: *7" Liner set 3402' - 6015'.	
*4½" Liner set 5912' - 7670'.	

Approved By Commission:	Conducted By: Gary Osborne	Calculated By: Scott H. Lindsay	Checked By: kld
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