

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 2-19-86			
Company El Paso Natural Gas Co.				Connection					
Pool Basin				Formation Dakota				Unit	
Completion Date 2-19-86		Total Depth 8135		Plug Back TD 8113		Elevation 6901 GR		Farm or Lease Name S.J. 29-7 Unit	
Csg. Size 9.625	Wt. 40	d 8.835	Set At 3969	Perforations: From 7895* To 8095				Well No. #45A	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 8063	Perforations: From To				Unit Sec. Twp. Rge. F 20 29 07	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Dual				Packer Set At 6241		County Rio Arriba			
Producing Thru Tbg.		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L	H	Gg .70	% 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							1855				7 Days
1.			.750	105		61	105				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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		117	.9990	.9258	1.017	1361
2.							
3.							
4.							
5.							

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

P _c 1867	P _c ² 3485689	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{3485689}{3417045}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0150$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1382$			
NO.	P _t ²		P _w	P _w ²	P _c ² - P _w ²
1			262	68644	3417045
2					
3					

Absolute Open Flow 1382 Mcfd @ 15.025		Angle of Slope @	Slope, n .75
Remarks: *7" Liner set @ 3794' - 6435'. *4½" Liner set @ 6300' - 8130'. Gas vented during test = 233 MCF			
Approved By Commission:	Conducted By: John Easley	Calculated By: Scott H. Lindsay	Checked By: kld