

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2-18-81			
Company El Paso Natural Gas Company				Connection El Paso Natural Gas Company					
Pool Undesignated				Formation Pictured Cliff				Unit San Juan 28-5	
Completion Date 2-3-81		Total Depth		Plug Back TD		Elevation 6735 GR		Farm or Lease Name San Juan 28-5 Unit	
Csg. Size 7.000	Wt. 20	d 6.456	Set At 4010	Perforations: From 3639 To 3722		Well No. #29A			
Thq. Size 1.660	Wt. 2.33	d 1.380	Set At 3730	Perforations: From To		Unit Sec. Twp. Rge. D 18 28 5			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual						Packer Set At 3882		County Rio Arriba	
Producing Thru Csg.		Reservoir Temp. °F p		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L	H	Gg 0.650	% 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							1060		1065		25 Days
1.	Choke	0.750		69		57	69				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. Comp. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		81	1.0039	0.9608	1.009	974
2.							
3.							
4.							
5.							

NO.	P _r	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 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 1077	P _c ² 1159929	
NO.	P _t ²	P _w ²
1		81
2		
3		
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0057$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0048$	
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 979$			

Absolute Open Flow 979 Mcfd @ 15.025	Angle of Slope θ _____	Slope, n 0.85
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Remarks: Vented 178 MCF Gas During The Test.			
Approved By Division	Conducted By: John Easley	Calculated By: H. E. McAnally	Checked By: