OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 2-3-81	
Company: El Paso Natural Gas Company		Connection: El Paso Natural Gas Company			
Pool: Blanco		Formation: Mesa Verde		Unit: San Juan 28-5	
Completion Date: 1-24-81	Total Depth: 6248	Plug Back TD: 6229	Elevation: 6734 G. L.	Farm or Lease Name: San Juan 28-5 Unit	
Csg. Size: 7.000 / Wt.: 20.0 / d: 6.456 / Set At: 4010		Perforations: From *5332 To 6188		Well No.: #29A	
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 6162		Perforations: From To		Unit: D / Sec.: 18 / Twp.: 28 / Rge.: 5	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G. G. Dual		Packer Set At: 3882		County: Rio Arriba	
Producing Thru: Tbg.	Reservoir Temp. °F:	Mean Annual Temp. °F:	Baro. Press. – P_a: 12	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		0.650						

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI					723				10 Days
1.	Choke 0.750	195		59					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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		207	1.001	0.9608	1.021	2513
2.							
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 735 P_c^2 540225

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	42849	429	1840141	356184
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5167$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.3667$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3435$

Absolute Open Flow 3435 Mcfd @ 15.025
Angle of Slope θ _____ Slope, n 0.75

Remarks: * 4.500 Liner from 3861 to 6248. Gas Vented 365 MCF.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	John Easley	H. E. McAnally	