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: 4-9-81	
Company: El Paso Natural Gas Company		Connection: El Paso Natural Gas Company		
Pool: Blanco		Formation: Mesa Verde		Unit: San Juan 28-5
Completion Date: 4-2-81	Total Depth: 5960	Plug Back TD: 5943	Elevation: 6527 GR	Farm or Lease Name: San Juan 28-5 Unit
Csg. Size: 7.000 / Wt.: 20 / d: 6.456 / Set At: 3692		Perforations: From 5029 To 5930		Well No.: #51A
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 5879		Perforations: From To		Unit: C / Sec.: 31 / Twp.: 28 / Rge.: 5
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G. G. Dual		Packer Set At: 3553		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	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							805				7 Days
1.	Choke		0.750	249		61					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		261	0.9990	0.9608	1.025	3175
2							
3							
4							
5							

NO.	P_t	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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 817 P_c^2 667489

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	68121	534	285156	382333
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.7458$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.5188$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4822$

Absolute Open Flow 4822 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n 0.75

Remarks: *4.500" Liner From 3543 To 5960
Vented 399 MCF Gas During The Test.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Melvin Wileman	H. E. McAnally	