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 27-5	
Completion Date: 1-27-81	Total Depth: 5966	Plug Back TD: 5949	Elevation: 6540 G.L.	Farm or Lease Name: San Juan 27-5 Unit	
Csg. Size: 7.000 / Wt.: 20.0 / d: 6.456 / Set At: 3709		Perforations: From 5045 To 5907		Well No.: #52A	
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 5894		Perforations: From To		Unit: E / Sec.: 4 / Twp.: 27 / Rge.: 5	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G. G. Dual		Packer Set At: 3603		County: Rio Arriba	
Producing Thru: Tbg.	Reservoir Temp. °F: θ	Mean Annual Temp. °F:	Baro. Press. – P_a: 12	State: New Mexico	
L:	H:	Gg: 0.65	% CO_2:	% N_2:	% H_2S:
Prover:	Meter Run:	Taps:			

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						978				7 Days
1.	Choke	0.750	322		60					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		334	1.000	0.9608	1.038	4119
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 990 P_c^2 980100

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	111556	690	476100	504000
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.9446$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.6468$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 6783$

Absolute Open Flow 6783 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n 0.75

Remarks: * 4.500 Liner from 3592 to 5966. Gas Vented = 540 MCF

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