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 WELLS

RECEIVED
MAR 20 1985
OIL CON. DIV.
DIST. 3

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 3-18-85	
Company: El Paso Natural Gas		Connection:			
Pool: Basin		Formation: Dakota			Unit:
Completion Date: 3-18-85	Total Depth: 7776	Plug Back TD: 7767	Elevation: 6576 GR		Farm or Lease Name: S.J. 29-7 Unit
Csg. Size: 4.500 / Wt.: 10.5 / d: 4.052 / Set At: 7776		Perforations: From 7554 To 7769			Well No.: 70E
Tbg. Size: 1.900 / Wt.: 2.9 / d: 1.610 / Set At: 7711		Perforations: From To			Unit: M / Sec.: 35 / Twp.: 29 / Rge.: 07
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: None			County: Rio Arriba
Producing Thru: CSG	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
		.700						

	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						1758		1791		7 Days
1.		.750	92		37	347		92		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		104	1.0229	.9258	1.012	1232
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 XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1803 P_c^2 3250809

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		359	128881	3121928
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{3250809}{3121928}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0308$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1270$

Absolute Open Flow 1270 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Gas vented during test 211 MCF, produced light mist of water throughout test.

Approved by Division	Conducted By:	Calculated By:	Checked By:
	Sonny Paul	Ed Mabe	kld