FORM 23-75 16-58

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

CORRECTED COPY

DUAL COMPLETION

DATE **March 19, 1959**

Operator: **El Paso Natural Gas**		Lease: **San Juan 27-5 No. 41 (M)**	
Location: **1690S, 1650W; 21-27-5**		County: **Rio Arriba**	State: **New Mexico**
Formation: **Mesa Verde**		Pool: **Blanco**	
Casing: Diameter: **7-5/8**	Set At: Feet: **3455**	Tubing: Diameter: **2"**	Set At: Feet: **5453**
Pay Zone: From: **5450**	To: **5546**	Total Depth: **5669 e/o 5622**	**Shut in 3/12/59**
Stimulation Method: **Sand Water Frac.**		Flow Through Casing:	Flow Through Tubing: **X**

Choke Size, Inches: **.75**	Choke Constant: C: **12.365**		**5-1/2 liner 3400 ; 5666**		
Shut-In Pressure, Casing, PSIG: **(PC) 924**	+ 12 = PSIA: **936**	Days Shut-In: **7**	Shut-In Pressure, Tubing PSIG: **(MV) 1013**	+ 12 = PSIA: **1025**	
Flowing Pressure: P PSIG: **(MV) 136**	+ 12 = PSIA: **148**		Working Pressure: P_w PSIG: **Calc.**	+ 12 = PSIA: **292**	
Temperature: T °F: **60**	n = **.75**		Fpv (From Tables): **1.016**	Gravity: **.693**	

Initial SIPT (PC) = 924 psig
Final SIPC (PC) = 928 psig

Packer at 3454

CHOKE VOLUME = Q = C x P_t x F_t x F_g x F_{pv}

Q = **12.365 x 148 x 1.000 x .9325 x 1.016** = **1734** MCF/D

OPEN FLOW Aof = Q $\left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$

Aof $\left(\frac{1050625}{965361} \right)^n$ = $1.0883^{.75}$ x 1734 = 1.0655 x 1734

Aof = **1848** MCF/D

TESTED BY **S. V. Roberts**

WITNESSED BY

L. D. Galloway

L. D. Galloway by H.L.K.