

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATACORRECTED COPY

DUAL COMPLETION

DATE **March 19, 1959**

Operator El Paso Natural Gas		Lease San Juan 27-5 No. 41 (M)	
Location 16508, 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 o/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: Pw, PSIG Calc.	- 12 = PSIA 292	
Temperature: T, °F 60	.75		Fpv (From Tables) 1.016	Gravity .693	

Initial SIPT (PC) = 924 psig

Packer at 3454

Final SIPC (PC) = 928 psig

CHOKE VOLUME = $Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$

$$Q = 12.365 \times 148 \times 1.000 \times .9325 \times 1.016$$

1734

MCF/D

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

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

Aof 1848 MCF/DTESTED BY S. V. Roberts

WITNESSED BY _____



L. D. Galloway
L. D. Galloway *by J.H.K.*