

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE March 19, 1959

Operator El Paso Natural Gas		Lease San Juan 27-5 No. 41 (N)	
Location 10908, 1650E; 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 5425
Pay Zone: From 5450	To 5546	Total Depth: 5669 o/e 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 5400 p 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	n = .75		Fpv (From Tables) 1.016	Gravity .693

Initial SIPT (PC) = 924 psig

Packer at 3454

Final SIPT (PC) = 928 psig

CHOKE VOLUME = Q = C x P_i x F_i x F_g x F_{pv}

$$Q = 12.365 \times 148 \times 1.000 \times .9325 \times 1.016 = 1734 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1050625}{965361} \right)^n = 1.0883^{.75} \times 1734 = 1.0695 \times 1734$$

$$Aof = 1848 \text{ MCF/D}$$

TESTED BY S. V. Roberts

WITNESSED BY _____



L. D. Galloway
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