

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 2, 1957

Operator El Paso Natural Gas Company		Lease San Juan Unit 32-9 Unit No. 51	
Location 1090'S, 890'W, Sec. 29-32-9		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5 1/2"	Set At: Feet 5972	Tubing: Diameter 2"	Set At: Feet 5939
Pay Zone: From 5440	To 5960	Total Depth: 5985 - c/o 5966	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750	Choke Constant: C 12.365		
Shut-In Pressure, Casing, PSIG 1028	12 - PSIA 1040	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 1025
Flowing Pressure: P PSIG 293	12 - PSIA 305		Working Pressure: Pw PSIG 753
Temperature: T °F 82			Gravity 0.625
	0.75		1.022

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

$$Q = 12.365 \times 305 \times .9795 \times .9798 \times 1.022 = 3699 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,081,600}{496,375} \right)^{.75} = 2.179^{.75} \times 3699 = 1.793 \times 3699$$

$$Aof = 6632 \text{ MCF/D}$$

TESTED BY S. V. Roberts

WITNESSED BY _____

L. D. Galloway
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