

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 22, 1957

Operator El Paso Natural Gas Company		Lease Harvey State No. 11	
Location 990'S, 1850'W 16-25-6		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 5-1/2"	Set At: Feet 2401	Tubing: Diameter 1-1/4	Set At: Feet 2322
Pay Zone: From 2320	To 2352	Total Depth: c/o 2360	
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 860	- 12 = PSIA 872	Days Shut-In	Shut-In Pressure, Tubing PSIG 860	- 12 = PSIA 872	
Flowing Pressure: P PSIG 135	- 12 = PSIA 147		Working Pressure: Pw PSIG 142	- 12 = PSIA 154	
Temperature: T °F 65	n = 0.85		Fpv (From Tables) 1.012	Gravity 0.625	

CHOKE VOLUME = $Q \cdot C \cdot P_i \cdot F_i \cdot F_g \cdot F_{pv}$

$$Q \cdot 12.365 \times 147 \times 0.9952 \times 0.9798 \times 1.012 = 1794 \text{ MCF/D}$$

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

$$Aof = \left(\frac{760,384}{736,668} \right)^{.85} = 1.0321 \times 1794 = 1.0272 \times 1794$$

Aof 1843 MCF/DTESTED BY S. V. Roberts

WITNESSED BY _____



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