

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

OWWO

DATE August 16, 1957

Operator El Paso Natural Gas Company		Lease Neudecker No. 1	
Location NE 14-29-10		County San Juan	State New Mexico
Formation Pictured Cliff		Pool Blanco Pool	
Casing: Diameter 5 1/2	Set At: Feet 3987	Tubing: Diameter 1-1/4	Set At: Feet 2473
Pay Zone: From 2414	To 2454	Total Depth: 2301	
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 684	- 12 = PSIA 696	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 684	- 12 = PSIA 696	
Flowing Pressure: P PSIG 123	- 12 = PSIA 135		Working Pressure: Pw PSIG Calculated	- 12 = PSIA 137	
Temperature: T °F 73	n = .75		Fpv (From Tables) 1.011	Gravity 647	

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = 12.365 \times 135 \times 9877 \times .9645 \times 1.011 = 1608 \text{ MCF/D}$$

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

$$Aof = \left(\frac{484,416}{465,647} \right)^n = 1.0403^{.85} \times 1608 = 1.0342 \times 1608$$

$$Aof = 1663 \text{ MCF/D}$$

TESTED BY K. C. McBride and R. Proctor

WITNESSED BY _____



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