

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CORRECTED COPY

DATE September 3, 1959

Operator El Paso Natural Gas		Lease San Juan 28-7 No. 116	
Location 1749N, 1550E; 17-27-7		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 5-1/2	Set At: Feet 3465	Tubing: Diameter 1-1/4	Set At: Feet 3348
Pay Zone: From 3362	To 3430	Total Depth 3466 c/o	Shut In: 8/17/59
Stimulation Method Sand Water Frac		Flow Through Casing X	

Choke Size, Inches .75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 1001	- 12 - PSIA 1013	Days Shut-In 17	Shut-In Pressure, Tubing, PSIG 1001
Flowing Pressure: P, PSIG 177	- 12 - PSIA 189	Working Pressure: Pw, PSIG 188	- 12 - PSIA 200
Temperature: T, °F 64	n .85	Fpv (From Tables) 1.017	Gravity .645

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

$$Q = 12.365 \times 189 \times .9962 \times .9645 \times 1.017 = 2284 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1026169}{986169} \right)^n \quad 1.0405^{.85} \times 2284 = 1.0343 \times 2284$$

$$Aof = 2362 \text{ MCF/D}$$

TESTED BY D. Mortensen

WITNESSED BY _____

Checked By T. B. Grant

Lewis D. Galloway
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