

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 13, 1959

Operator: El Paso Natural Gas		Lease: San Juan 30-4 No. 30	
Location: 1650S, 1650W; 20-30-4		County: Rio Arriba	State: New Mexico
Formation: Pictured Cliffs		Pool: East Blanco	
Casing: Diameter: 5-1/2	Set At: Feet: 4524	Tubing: Diameter: 2"	Set At: Feet: 4449
Pay Zone: From: 4186	To: 4454	Total Depth: 4525 c/o 4470	Shut in: 7/31/59
Stimulation Method: Sand Water Frac.		Flow Through Casing	Flow Through Tubing: X

Choke Size, Inches: .75		Choke Constant: C: 12.365	
Shut-In Pressure, Casing, PSIG: 1180	- 12 = PSIA: 1192	Days Shut-In: 13	Shut-in Pressure, Tubing PSIG: 1180
Flowing Pressure: P PSIG: 206	- 12 = PSIA: 218	Working Pressure: P _w PSIG: 493	- 12 = PSIA: 505
Temperature: T: 72	F _g : 85	F _{pv} (From Tables): 1.015	Gravity: .582

CHOKE VOLUME = $Q = C \times P \times F \times F_g \times F_{pv}$

$Q = 12.365 \times 218 \times .9887 \times 1.017 \times 1.015 = 2751$ MCF D

OPEN FLOW $A_{of} = Q \left(\frac{P_c^2}{P_w^2} \right)^n$

$A_{of} = \left(\frac{1420864}{1165839} \right)^n = 1.2187^{.85} \times 2751 = 1.1832 \times 2751$

$A_{of} = 3255$ MCF D

TESTED BY Jesse B. Goodwin

WITNESSED BY _____

Checked By W. Dawson



L. D. Galloway
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