

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 19, 1968

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 143	
Location 1550'S, 1600'W, Sec. 20, T-28-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7855	Tubing: Diameter 2.375	Set At: Feet 7558
Pay Zone: From 7596	To 7798	Total Depth: 7855	Shut In 11-9-68
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, 2726	PSIG	+ 12 = PSIA 2738	Days Shut-In 10	Shut-In Pressure, Tubing 2730	PSIG
Flowing Pressure: P 429	PSIG	+ 12 = PSIA 441		Working Pressure: P _w 1418	PSIG
Temperature: T = 77 °F		n = .75		F _{pv} (From Tables) 1.043	Gravity .678
F _t = .9840					F _g = .9427

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_t \times F_g \times F_{pv}$$

$$Q = (12.365)(441)(.9840)(.9427)(1.043) = 5276 \text{ MCF/D}$$

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

$$Aof = \left(\frac{7518564}{5473664} \right)^n = (5276)(1.3735)^{.75} = (5276)(1.2687)$$

Note: Well produced a light spray of distillate and water throughout the test.

$$Aof = 6694 \text{ MCF/D}$$

TESTED BY B.J.Broughton

Checked by G. A. Lippman



H. L. Kendrick
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