

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 14, 1962

Operator El Paso Natural Gas Company	Lease San Juan Unit 28-7 No. 128
Location 990'N, 890'E, Sec. 12-27-7	County Rio Arriba State New Mexico
Formation Dakota	Pool Basin
Casing Diameter 4.500	Set At: Feet 7681
Pay Zones From 7436	To 7596
Stimulation Method Sand Water Frac.	Tubing Diameter 2.375
	Set At: Feet 7540
	Total Depth 7692 C/O 7633
	Shut In 11-6-62
	Flow Through Casing X
	Flow Through Tubing X

Choke Size, Inches .75	Choke Constant: C 12.365
Shut-In Pressure, Casing 2583	PSIG 12 PSIA Days Shut-In 2595 8
Flowing Pressure, P 299	PSIG 12 PSIA 311
Temperature 70	F .9905 .75
	Shut-In Pressure, Tubing 2619
	PSIG 12 PSIA 2631
	Working Pressure, Pw 1110
	PSIG 12 PSIA 1122
	Exp From Tables 1.026
	Gravity .630 .9759

$$\text{CHOKE VOLUME } Q = C \times P_i \times F_p \times F_g \times F_{pv}$$

$$Q = (12.365)(311)(.9905)(.9759)(1.026)$$

3814

MCF/D

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

$$Aof = \left(\frac{6,922,161}{5,663,277} \right)^n (3814)(1.2222)^{.75} = (3814)(1.1623)$$

NOTE: Blew a heavy spray of hydrocarbons and water.

Aof 4433

MCF/D

Witnessed by R. F. Headrick

Witnessed by

Calculated by W. D. Dawson

Checked by Tom B. Grant

Lewis D. Galloway
Lewis D. Galloway

