

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE January 6, 1960

Operator El Paso Natural Gas		Lease San Juan 29-4 Unit No. 18-33	
Location 1500N, 810E; 33-29-4		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7	Set At: Feet 8483	Tubing: Diameter 1-1/4	Set At: Feet 6578
Pay Zone: From 6484	To 6624	Total Depth: 8861 P.B. 8555	Shut In Re-SI 12/16/59
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365		5" liner 8397 - 8843	
Shut-In Pressure, Casing, PSIG 1029	12 - PSIA 1041	Days Shut-In 21	Shut-In Pressure, Tubing, PSIG 1031	12 - PSIA 1043	
Flowing Pressure: P, PSIG 99	12 - PSIA 111		Working Pressure: Pw, PSIG 116	12 - PSIA 128	
Temperature: T, °F 54	n 1.0058		Fpv (From Tables) 1.0110	Gravity .706	Fg .9225

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

$$Q = 12.365 \times 111 \times 1.0058 \times .9225 \times 1.0110 = 1287 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1087849}{1071465} \right)^n \cdot 1.0152^{.75} \times 1287 = 1.0114 \times 1287$$

$$Aof = 1302 \text{ MCF/D}$$

TESTED BY D. Mortensen

WITNESSED BY

Checked By W. D. Dawson

Lewis D. Galloway
L. D. Galloway