

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

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DATE Nov 16, 1969

Operator El Paso Natural Gas		Lease Ruerfano Unit No. 198	
Location 1800'S; 1550'E; 8-27; 4-26N; R-10N		County San Juan	State New Mexico
Formation Dakota		Pool Pasin	
Casing: Diameter 4.50	Set At: Feet 6766	Tubing: Diameter 2.375	Set At: Feet 6713
Pay Zone: From 6652	To 6720	Total Depth: 6766	Shut In 5-7-69
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 4" M.R. - 2.750" Note		Choke Constant: C 41.9200		Tested Through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1695	+ 12 = PSIA 1707	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 1503	+ 12 = PSIA 1520	
Flowing Pressure: P PSIG 227 W.H. - 87 M.R.	+ 12 = PSIA 239 W.H. - 99 M.R.	Working Pressure: P _w PSIG 614	+ 12 = PSIA 626		
Temperature: T = 71 °F Ft = 5895	n = .75	F _{pv} (From Tables) 1.010	Gravity .700 Fg = 1.1952		

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

$$Q = \text{Calculated from orifice meter readings} = 2808 \text{ MCF/D}$$

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

$$Aof = \left(\frac{2912849}{2521973} \right)^n = (2808) (1.1553)^{.75} = 2808 (1.1143)$$

Note: This well produced 29.09 bbls. of
42.8 API gravity during the three
hour test.

$$Aof = 3129 \text{ MCF/D}$$

TESTED BY Stauffer - Lippman
Calculated
WITNESSED BY G. A. Lippman

H. L. Kendrick
H. L. Kendrick

