

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 27, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit No. 229	
Location 800/S, 1850/E, Sec. 32, T-28-N, R-7-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7728'	Tubing: Diameter 1.990	Set At: Feet 7677'
Pay Zone: From 7478'	To 7672'	Total Depth: PBD 7728' 7707'	Shut In 10-28-74
Stimulation Method Sand Water Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 4" MR 2.500 Plate		Choke Constant: C 32.64		Tested Through a 3/4" Variable Choke	
Shut-In Pressure, Casing, PSIG 2440	+ 12 = PSIA 2452	Days Shut-In 30	Shut-In Pressure, Tubing PSIG 2440	+ 12 = PSIA 2452	
Flowing Pressure: P PSIG 196 WH 66MR	+ 12 = PSIA 208 WH 78 MR		Working Pressure: P _w PSIG 448	+ 12 = PSIA 460	
Temperature: T = 68 °F Ft = 0.9924	n = .75		Fpv (From Tables) 1.008	Gravity .650	Fg = 0.9608

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

Q = Calculated from orifice meter readings. = 1959 MCF/D

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

$$Aof = \left(\frac{6012304}{5800704} \right)^n = (1959) (1.0365)^{.75} = (1959) (1.0272)$$

Aof = 2012 MCF/D

Note: The well produced 4.85 bbls of 57.6 API oil during the three hour test.

TESTED BY Johnson and Rhames

WITNESSED BY

Loren W. Fothergill
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Well Test Engineer

