

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 6, 1975

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #117	
Location 800/S, 1175/W, Sec 6, T 27 W, R 7 W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Largo Chacra Ext	
Casing: Diameter 2.875	Set At: Feet 4300'	Tubing: Diameter No tubing	Set At: Feet ---
Pay Zone: From 4262	To 4272	Total Depth: PBT 4300' 4289	Shut In 7-23-75
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1000	+ 12 = PSIA 1012	Days Shut-In 14	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA ---	
Flowing Pressure: P PSIG 2	+ 12 = PSIA 14		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 19	
Temperature: T = 59 °F Ft = 1.001	n = .75		Fpv (From Tables) 1.004	Gravity .666 Fg = .9491	

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

$$Q = (12.365)(14)(1.001)(.9491)(1.004) = 165 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1024144}{1023783} \right)^n = 165(1.0004)^{.75} = 165(1.0003)$$

$$Aof = 165 \text{ MCF/D}$$

Note: Well produced heavy fog of water for first 15 min., then a light fog of water for remainder of test. During the test 25.56 MCF of gas was vented into atmosphere.

TESTED BY Johnson

WITNESSED BY

Larry W. Bink
Well Test Engineer



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