

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CORRECTED COPY

DATE 4-18-73

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #135	
Location 800'/S, 800'/W, Sec. 27, T28N, R7W		County Rio Arriba	State NM
Formation Dakota		Pool Basin	
Casing: Diameter 4 1/2	Set At: Feet 7312	Tubing: Diameter 1 1/2	Set At: Feet 7224
Pay Zone: From 7032	To 7265	Total Depth: 7312	Shut In 4/5/73
Stimulant on Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2622	+ 12 = PSIA 2634	Days Shut-In 13	Shut-In Pressure, Tubing PSIG 2269	+ 12 = PSIA 2281	
Flowing Pressure: P PSIG 343	+ 12 = PSIA 355		Working Pressure: Pw PSIG 700	+ 12 = PSIA 712	
Temperature: T = 78 °F	Ft = .9831	n = .75	Fpv (From Tables) 1.032	Gravity .650	Fg = .9608

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

$$Q = (12.365)(355)(.9831)(.9608)(1.032) = 4279 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{6937956}{6485027} \right)^n = 4279 (1.0698)^{.75} = 4279 (1.0519)$$

$$Aof = 4501 \text{ MCF/D}$$

NOTE: The well produced a medium mist of H₂O throughout the test.

TESTED BY W. Welch

WITNESSED BY

William D Welch
William D. Welch
Well Test Engineer

