

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CORRECTED COPY

DATE 1/22/73

Operator El Paso Natural Gas Company		Lease San Juan 28-6 #185	
Location 1172/S, 810 1/2 E, Sec. 33, T28N, R6W		County Rio Arriba	State NM
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7934	Tubing: Diameter 1.990	Set At: Feet 7897
Pay Zone: From 7687	To 7901	Total Depth: 7934	Shut In 1/14/73
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2629	+ 12 = PSIA 2641	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 2085	+ 12 = PSIA 2097	
Flowing Pressure: P PSIG 375	+ 12 = PSIA 387		Working Pressure: Pw PSIG 681	+ 12 = PSIA 693	
Temperature: T = 66 °F	Ft = 9943	n = .75	Fpv (From Tables) 1.033	Gravity .620	Fg = .9837

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

$$Q = (12.365)(387)(.9943)(.9837)(1.033) = 4835 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{6974881}{6494632} \right)^n = (4835)(1.0739)^{.75} = 4835 (1.0550)$$

$$Aof = 5101 \text{ MCF/D}$$

NOTE: Unloaded a heavy fog of distillate and water in 9 min. Light to medium fog through the rest of the test.

TESTED BY Norton

WITNESSED BY



William D. Welch
Well Test Engineer

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