

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 1/22/73

Operator El Paso Natural Gas Company		Lease San Juan 28-6 #185	
Location 1172/S, 820 ⁸¹⁰ /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: P _w PSIG 681	+ 12 = PSIA 693		
Temperature: T = 66 °F Ft = .9943	n = .75	F _p v (From Tables) 1.033	Gravity .620	F _g = .9837	

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

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

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

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

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

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
William D. Welch
Well Test Engineer