

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE November 21, 1973

Operator El Paso Natural Gas Company		Lease Canyon Largo Unit #239	
Location 1550/S, 1600/W, Sec. 1 T25N, R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7484'	Tubing: Diameter 2.375	Set At: Feet 7426'
Pay Zone: From 7218	To 7268	Total Depth: 7484	Shut In 11-6-73
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2655	+ 12 = PSIA 2667	Days Shut-In 15	Shut-In Pressure, Tubing PSIG 2655	+ 12 = PSIA 2667	
Flowing Pressure: P PSIG 147	+ 12 = PSIA 159		Working Pressure: P _w PSIG 650	+ 12 = PSIA 662	
Temperature: T = 56 °F	n = Ft = 1.004		Fpv (From Tables) 1.018	Gravity .690	Fg = .9325

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

$$Q = (12.365)(159)(1.004)(.9325)(1.018) = \underline{1874} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{7112889}{6674645} \right)^n = 1874 (1.0657)^{.75} = 1874 (1.0489)$$

$$Aof = \underline{1965} \text{ MCF/D}$$

Note: Light fog of water and drip throughout test.

TESTED BY Rhames

WITNESSED BY _____

William D. Welch
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Well Test Engineer

