

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CORRECTED COPY

DATE June 25, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #215	
Location 1460/S, 1550/W, Sec. 4, T27N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7746'	Tubing: Diameter 1.990	Set At: Feet 7509'
Pay Zone: From 7512'	To 7730'	Total Depth: PBDT 7746' 7736'	Shut In 6-18-74
Stimulation Method Sand- oil Frac		Flow Through Casing	Flow Through Tubing XX

Meter Choke Size, Inches 4" MR	Orifice 2.500	Orifice Choke Constant: C 32.64	Well tested thru a 3/4" variable choke	
Shut-In Pressure, Casing, 2115	PSIG	+ 12 = PSIA 2127	Days Shut-In 7	Shut-In Pressure, Tubing 2077
Flowing Pressure: P 311	PSIG	+ 12 = PSIA 323		Working Pressure: P _w 1161
Temperature: T = 48 °F		n = .75		F _{pv} (From Tables) 1.0370
	F _t = 1.0117			Gravity .650 F _g = 1.2400

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

$$Q = \text{Calculated from meter readings} = 3424 \text{ MCF/D}$$

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

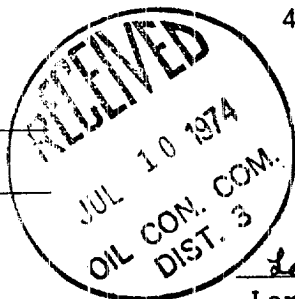
$$Aof = Q \left(\frac{4524129}{3148200} \right)^n = 3424(1.4371)^{.75} = 3424(1.3125)$$

$$Aof = 4494 \text{ MCF/D}$$

Note: The well produced 23.35 Bbl of 49.5 gravity.

TESTED BY R. Hardy

WITNESSED BY



Loren W. Fothergill
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Well Test Engineer