

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 6-25-74

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #215	
Location 1460/S, 1550/W, Sec 4, T27N, R-7-W		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: 7746'	PBTD 7736'
Stimulation Method Sand Oil Frac		Flow Through Casing	Shut In 6-18-74
		Flow Through Tubing	XX

Meter Choke Size, Inches 4" MR	Orifice Orifice Constant: C 2.500	32.64	Well tested through 2 3/4" variable choke	
Shut-In Pressure, Casing, 2115	PSIG + 12 = PSIA 2127	Days Shut-In 7	Shut-In Pressure, Tubing 2077	PSIG + 12 = PSIA 2089
Flowing Pressure: P 311	PSIG + 12 = PSIA 323		Working Pressure: P _w 1161	PSIG + 12 = PSIA 1173
Temperature: T = 48 °F	n = Ft = 1.0117	.75	F _{pv} (From Tables) 1.0370	Gravity .650
				F _g = 1.2400

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_f \times F_g \times F_{pv}$$

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

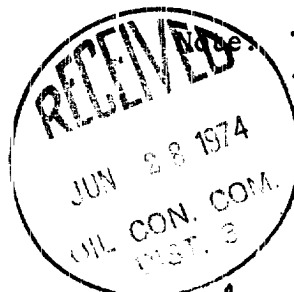
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

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

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

TESTED BY R. Hardy

WITNESSED BY



The well produced 23.35 BBls of 49.5 gravity oil.

Loren W Fothergill
L. W. Fothergill
Well Test Engineer
June 28, 1974