

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 4-6-71

Operator El Paso Natural Gas Company		Lease San Juan 28-5 Unit No. 85	
Location 1500'S, 1040'E, S 8, T28N, R5W		County Rio Arriba	State New Mexico
Formation Isabota		Pool basin	
Casing: Diameter 4.500	Set At: Feet 791.5	Tubing: Diameter 1.990	Set At: Feet 790.1
Pay Zone: From 7556	To 7904	Total Depth: 791.5	Shut In 3-29-71
Stimulation Method S W F		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2647	+ 12 = PSIA 2659	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 2594	+ 12 = PSIA 2606	
Flowing Pressure: P PSIG 2571	+ 12 = PSIA 269		Working Pressure: P _w PSIG 575	+ 12 = PSIA 586	
Temperature: T = 83 °F	F _t = .9786	n = .75	F _{pv} (From Tables) 1.019	Gravity .600	F _g = 1.000

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

$$Q = 12.365 \times 269 \times .9786 \times 1.000 \times 1.019 = \underline{3317} \text{ MCF/D}$$

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

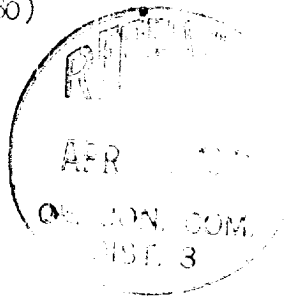
Note: Well blew light spray of hydrocarbons throughout test.

$$Aof = \left(\frac{7070281}{6726885} \right)^n = 3317(1.0510)^{.75} = 3317(1.0380)$$

$$Aof = \underline{3443} \text{ MCF/D}$$

TESTED BY B. J. Broughton & R. R. Hardie

WITNESSED BY _____



J. L. Kendrick
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