

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 10, 1972

Operator El Paso Natural Gas Company		Lease San Juan 29-5 Unit No. 59	
Location 1590'N, 1100'E, Section 31, T29N, R5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7906	Tubing: Diameter 1.900	Set At: Feet 7838
Pay Zone: From 7726	To 7852	Total Depth: 7906	Shut In 7-1-72
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2629	+ 12 = PSIA 2641	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 2305	+ 12 = PSIA 2317	
Flowing Pressure: P PSIG 286	+ 12 = PSIA 298		Working Pressure: P _w PSIG 455	+ 12 = PSIA 467	
Temperature: T = 65°F	F _t = .9952	n = .75	F _{pv} (From Tables) 1.021	Gravity 590	F _g = 1.0084

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

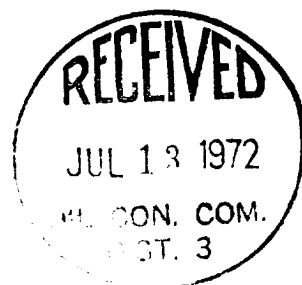
$$Q = (12.365) (298) (.9952) (1.0084) (1.021) = \underline{\quad 3776 \quad} \text{ MCF/D}$$

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

NOTE: Well produced a light spray of water throughout test.

$$A_{of} = \left(\frac{6974881}{6756792} \right)^n = (3776) (1.0323)^{.75} = (3776) (1.0241) =$$

$$A_{of} = \underline{\quad 3867 \quad} \text{ MCF/D}$$



TESTED BY R. Hardy

WITNESSED BY _____

J. A. Jones
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