

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 19, 1972

Operator El Paso Natural Gas Company		Lease San Juan 28-5 Unit No. 83	
Location 990/S, 800/W, Sec. 15 T 28N R 5W		Courty Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7989	Tubing: Diameter 1.900	Set At: Feet 7948
Pay Zone: From 7774	To 7956	Total Depth: 7989	Shut In 7-7-72
Stimulation Method S.W.F.		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, 2615	PSIG	+ 12 = PSIA 2627	Days Shut-In 12	Shut-in Pressure, Tubing 1642	PSIG
Flowing Pressure: P 31	PSIG	+ 12 = PSIA 43		Working Pressure: P _w 309	PSIG
Temperature: T = 64 °F		n = .75		Fpv (From Tables) 1.003	Gravity .610 Fg = .9918

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

$$Q = (12.365)(43)(.9962)(.9918)(1.003) = \underline{527} \text{ MCF/D}$$

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

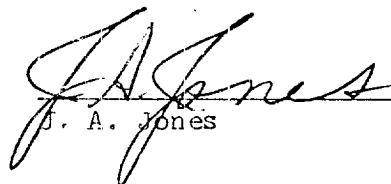
NOTE: Well produced light mist of water throughout the test.

$$Aof = \left(\frac{6901129}{6798088} \right)^n = (527)(1.0152)^{.75} = (527)(1.0113)$$

$$Aof = \underline{533} \text{ MCF/D}$$

TESTED BY B. J. Broughton

WITNESSED BY _____



J. A. Jones

