

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

000 2/

DATE 8/28/72

Operator El Paso Natural Gas Company		Lease San Juan 30-5 Unit #35	
Location 1170/L, 800/L, Sec. 30-1701-151		County Rio Arriba	State New Mexico
Formation Yaso Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6002	Tubing: Diameter 2.375	Set At: Feet 5911
Pay Zone: From 3256	To 5991	Total Depth: 6002	Shut In 8/14/72
Stimulation Method SLP		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 922	+ 12 = PSIA 934	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 319	+ 12 = PSIA 331	
Flowing Pressure: P 191	+ 12 = PSIA 203		Working Pressure: P _w PSIG 596	+ 12 = PSIA 608	
Temperature: T = 76 °F	F _t = 9240	n = .75	F _{pv} (From Tables) 1.014	Gravity .580	F _g = 1.0171

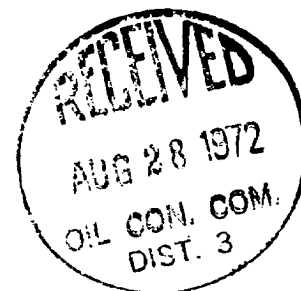
$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = (12.365)(203)(.9850)(1.0171)(1.014) = 2587 \text{ MCF/D}$$

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

$$Aof = \left(\frac{985 \text{ PSI}}{915 \text{ PSI}} \right)^n = (2587)(1.7167)^{.75} = (2587)(1.4997)$$

$$Aof = 3880 \text{ MCF/D}$$



NOTE: Well blew dead 2 minutes after start of test, then unloaded a 2/4" stream of water for 1 1/2 minutes, then produced a medium to light mist of water and some distillate for remainder of test.

TESTED BY B. J. Broughton

WITNESSED BY _____

J. A. Jones
J. A. Jones
Well Test Engineer