

000

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 1/11/73

Operator EL PASO NATURAL GAS COMPANY		Lease Canyon Largo Unit #169 (CH)	
Location 1100/N, 800/E. Sec. 4, T25N, R6W		County Rio Arriba	State NM
Formation Chacra		Pool Otero	
Casing: Diameter 2.875	Set At: Feet 3889	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 3740	To 3850	Total Depth: 3889	Shut In 12/18/72
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 531	+ 12 = PSIA 543	Days Shut-In 24	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 48	+ 12 = PSIA 60	Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 79		
Temperature: T = 56 °F	Ft = 1.004	n = .75	Fpv (From Tables) 1.004	Gravity .660	Fg = .9535

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

$$Q = (12.365)(60)(1.004)(.9535)(1.004) = 713 \text{ MCF/D}$$

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

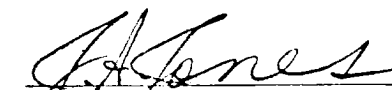
$$Aof = Q \left(\frac{294849}{288603} \right)^n = (713)(1.0216)^{.75} = (713)(1.0162)$$

$$Aof = 725 \text{ MCF/D}$$

NOTE: Well produced dry gas for 30 minutes then produced a light fog of water and distillate throughout rest of test.

TESTED BY J. Jones

WITNESSED BY _____


J. A. Jones
Well Test Engineer