

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 8/29/72

Operator El Paso Natural Gas Company		Lease San Juan 29-7 Unit #42 (OWO)	
Location 1600/N, 1100/E, Sec. 29-T29N-R7W		County Rio Arriba	State NM
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5650	Tubing: Diameter 2.375	Set At: Feet 5542
Pay Zone: From 4743	To 5556	Total Depth: 5650	Shut In 8/21/72
Stimulation Method SWP		Flow Through Casing	Flow Through Tubing XXX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 698	+ 12 = PSIA 710	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 698	+ 12 = PSIA 710	
Flowing Pressure: P PSIG 224	+ 12 = PSIA 236		Working Pressure: P _w PSIG 557	+ 12 = PSIA 569	
Temperature: T = 71 °F	F _t = .9896	n = .75	F _{pv} (From Tables) 1.024	Gravity .696	F _g = .9285

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

$$Q = (12.365)(236)(.9896)(.9285)(1.024) = \underline{2746} \text{ MCF/D}$$

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

$$Aof = \left(\frac{504 \cdot 100}{180 \cdot 339} \right)^n = (2746)(2.7953)^{.85} = (2746)(2.1618)$$

$$Aof = \underline{5936} \text{ MCF/D}$$

NOTE: Well produced light to heavy mist of water and distillate throughout test.

TESTED BY B. J. Broughton

WITNESSED BY _____

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

