

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 9/6/72

Operator El Paso Natural Gas Company		Lease San Juan 29-7 Unit #99 (OWO)	
Location 1650/S, 990/N, Sec. 29-T29N-R7W		County Rio Arriba	State NM
Formation NW		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5617	Tubing: Diameter 2.375	Set At: Feet 5578
Pay Zone: From 4670	To 5590	Total Depth: 5617	Shut In 8/30/72
Stimulation Method SIF		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 851	+ 12 = PSIA 863	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 762	+ 12 = PSIA 774	
Flowing Pressure: P PSIG 299	+ 12 = PSIA 311		Working Pressure: P _w PSIG 740	+ 12 = PSIA 752	
Temperature: T = 73 °F	n = Ft = .9877		Fpv (From Tables) 1.032	Gravity .684	Fg = .9366

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

$$Q = (12.365)(311)(.9877)(.9366)(1.032) = \underline{3671} \text{ MCF/D}$$

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

$$Aof = \left(\frac{744^2 - 769^2}{179^2 - 265^2} \right)^n = (.3671)(4.1546)^{.75} = (.3671)(2.9100)$$

$$Aof = \underline{10683} \text{ MCF/D}$$

NOTE: Well produced heavy fog of water and distillate.

TESTED BY Jesse B. Goodwin

WITNESSED BY _____

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

