

**EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA**

DATE October 8, 1975

Operator El Paso Natural Gas Company		Lease Duff #5	
Location 860/S, 1110/W, Sec. 5, T29N, R11W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2077'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 1996	To 2008	Total Depth: PBDT 2088 2067	Shut In Re 9-30-75 7-3-75
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-in Pressure, Casing, PSIG 259	+ 12 = PSIA 271	Days Shut-In 8	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 31	+ 12 = PSIA 43		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 51	
Temperature: T = 59 °F	n = 0.85		Fpv (From Tables) 1.004	Gravity 0.670	Fg = 0.9463

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

$$Q = (12.365)(43)(1.001)(.9463)(1.004) = \underline{\quad 506 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{73441}{70840} \right)^n = (506)(1.0367)^{.85} = (506)(1.0311)$$

$$Aof = \underline{\quad 522 \quad} \text{ MCF/D}$$

Note: The well produced a medium fog of distillate and water throughout the test. The well produced 75.69 MCF gas during the test.

TESTED BY T. D. Norton

WITNESSED BY _____

H. E. McAnally
Well Test Engineer

