

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE July 11, 1975

Operator El Paso Natural Gas Company		Lease Duff #6	
Location 1170/N, 810/W, Sec 8, T 29 N, R 11 W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Fulcher - Kutz	
Casing: Diameter 2.875	Set At: Feet 2055'	Tubing: Diameter No tubing	Set At: Feet ----
Pay Zone: From 1958	To 1984	Total Depth: PBT 2055' 2045	Shut In 6-24-75
Stimulation Method Sand Water Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 239	+ 12 = PSIA 251	Days Shut-In 17	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA ----	
Flowing Pressure: P PSIG 51	+ 12 = PSIA 63		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 74	
Temperature: T = 60 °F      F <sub>t</sub> = 1.000	n = .85		F <sub>pv</sub> (From Tables) 1.009	Gravity .670      F <sub>g</sub> = .9463	

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

$$Q = 12.365(63)(1.000)(.9463)(1.009) = \underline{744} \text{ MCF/D}$$

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

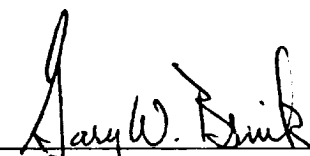
$$Aof = Q \left( \frac{63001}{57525} \right)^n = 744(1.095)^{.85} = 744(1.080)$$

$$Aof = \underline{804} \text{ MCF/D}$$

Note: This well blew a medium mist of water throughout test. During the test 106.37 MCF of gas was vented to atmosphere.

TESTED BY C. Rhames

WITNESSED BY \_\_\_\_\_

  
Well Test Engineer

