

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 4/25/73

Operator El Paso Natural Gas Company		Lease Grambling A #5	
Location 1800'/N, <sup>1550</sup> 1590'/W, Sec. 21-T28N, R8W		County San Juan	State NM
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 2355	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2160	To 2224	Total Depth: 2355	Shut In 4/12/73
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 936	+ 12 = PSIA 948	Days Shut-In 13	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 92	+ 12 = PSIA 104	Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA	124	
Temperature: T = 60 °F	F <sub>t</sub> = 1.000	n = .85	F <sub>pv</sub> (From Tables) 1.007	Gravity .645	F <sub>g</sub> = .9645

CHOKE VOLUME = Q = C x P<sub>t</sub> x F<sub>t</sub> x F<sub>g</sub> x F<sub>pv</sub>

Q = (12.365) (104) (1.000) (.9645) (1.007) = 1249 MCF/D

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

Aof = Q  $\left( \frac{898704}{898693} \right)^n = 1249 (1.0174)^{.85} = 1249 (1.0148)$

Aof = 1268 MCF/D

NOTE: The well produced dry gas.



TESTED BY W. Welch

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

William D. Welch  
William D. Welch, Well Test Engineer