

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE April 1, 1974

Operator El Paso Natural Gas Company		Lease EPNG Com "J" #11	
Location 1840/S, 1460/W, Sec. 32, T31N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3010'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2793	To 2910	Total Depth: PBTD 30010 3000	Shut In 3-25-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 919	+ 12 = PSIA 931	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 268	+ 12 = PSIA 280		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 350	
Temperature: T = 66 °F	F _t = .9943	n = .85	F _{pv} (From Tables) 1.024	Gravity .635	F _g = .9721

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

$$Q = 12.365(280)(.9943)(.9721)(1.024) = \underline{\hspace{2cm}} \text{ 3427 MCF/D}$$

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

$$Aof = \left(\frac{866761}{744261} \right)^n = 3427(1.1646)^{.85} = 3427(1.1383)$$

$$Aof = \underline{\hspace{2cm}} \text{ 3901 MCF/D}$$

Note: The well produced a dry flow.

TESTED BY L. Fothergill

WITNESSED BY _____

Loren W Fothergill
Loren W. Fothergill
Well Test Engineer

