

OCC

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 1/2/73

Operator <u>El Paso Natural Gas Company</u>		Lease <u>King #2</u>	
Location <u>1645/S, 840/E, Sec. 22, T30N, R10W</u>		County <u>San Juan</u>	State <u>NM</u>
Formation <u>Pictured Cliffs <i>Ext.</i></u>		Pool <u>Blanco</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>3073</u>	Tubing: Diameter <u>No tubing</u>	Set At: Feet
Pay Zone: From <u>2940</u>	To <u>2960</u>	Total Depth: <u>3075</u>	Shut In <u>12/22/72</u>
Stimulation Method <u>SWF</u>		Flow Through Casing <u>X</u>	Flow Through Tubing

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>		Tubingless Completion	
Shut-In Pressure, Casing, PSIG <u>949</u>	+ 12 = PSIA <u>961</u>	Days Shut-In <u>11</u>	Shut-In Pressure, Tubing PSIG <u>No tubing</u>	+ 12 = PSIA	
Flowing Pressure: P PSIG <u>162</u>	+ 12 = PSIA <u>174</u>		Working Pressure: P _w PSIG <u>Calculated</u>	+ 12 = PSIA <u>219</u>	
Temperature: T = <u>58</u> °F	Ft = <u>1.002</u>	n = <u>.85</u>	F _{pv} (From Tables) <u>1.015</u>	Gravity <u>.635</u>	F _g = <u>.9721</u>

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

$$Q = (12.365)(174)(1.002)(.9721)(1.015) = \underline{2127} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{923521}{875560} \right)^n = 2127 (1.0548)^{.85} = 2127 (1.0464)$$

$$Aof = \underline{2226} \text{ MCF/D}$$

NOTE: The well produced a light fog of water and distillate throughout test.

TESTED BY W. D. Welch

WITNESSED BY _____

William D. Welch
William D. Welch
Well Test Engineer

