

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 4, 1973

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Atlantic "D" Com. N #15</u>	
Location <u>880</u> <u>880/N, 1725/W, Section 2, T30N, R10W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliffs Ext</u>		Pool <u>Blanco</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>3268</u>	Tubing: Diameter <u>No tubing</u>	Set At: Feet
Pay Zone: From <u>3114</u>	To <u>3156</u>	Total Depth: <u>3268</u>	Shut In <u>5-24-73</u>
Stimulation Method <u>S.W.F.</u>		Flow Through Casing <u>XX</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>891</u>	+ 12 = PSIA <u>901</u>	Days Shut-In <u>12</u>	Shut-In Pressure, Tubing PSIG <u>No tubing</u>	+ 12 = PSIA	
Flowing Pressure: P PSIG <u>243</u>	+ 12 = PSIA <u>255</u>		Working Pressure: Pw PSIG <u>calculated</u>	+ 12 = PSIA <u>325</u>	
Temperature: T = <u>64</u> °F	n = <u>.85</u>		Fpv (From Tables) <u>1.023</u>	Gravity <u>.635</u>	Fg = <u>.9721</u>

CHOKE VOLUME = Q = C x P_f x F_t x F_g x F_{pv}

$$Q = (12.365)(255)(.9962)(.9721)(1.023) = \underline{3124} \text{ MCF/D}$$

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

NOTE: The well produced dry gas.

$$Aof = \left(\frac{811801}{706176} \right)^n = (3124)(1.1496)^{.85} = (3124)(1.1258)$$

$$Aof = \underline{3517} \text{ MCF/D}$$

TESTED BY Tommy D. Norton

WITNESSED BY _____

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