

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 10, 1974

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Lloyd B #4</u>	
Location <u>1560/N, 1840/W, Sec. 12, T29N, R11W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Chacra</u>		Pool <u>Undes</u>	
Casing: Diameter <u>2.875'</u>	Set At: Feet <u>3239'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet <u>--</u>
Pay Zone: From <u>3192'</u>	To <u>3202'</u>	Total Depth: <u>PBTD</u> <u>3239'</u> <u>3228'</u>	Shut In <u>5-31-74</u>
Stimulation Method <u>Sandwater Frac</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>1075</u>	+ 12 = PSIA <u>1087</u>	Days Shut-In <u>10</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA <u>--</u>	
Flowing Pressure: P PSIG <u>22</u>	+ 12 = PSIA <u>34</u>		Working Pressure: P _w PSIG <u>Calculated</u>	+ 12 = PSIA <u>43</u>	
Temperature: T = <u>61 °F</u> F _t = <u>.9990</u>	n = <u>.85</u>		F _{pv} (From Tables) <u>1.0040</u>	Gravity <u>.650</u> F _g = <u>.9608</u>	

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

$$Q = 12.365(34)(.9990)(.9608)(1.0040) = \underline{405} \text{ MCF/D}$$

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

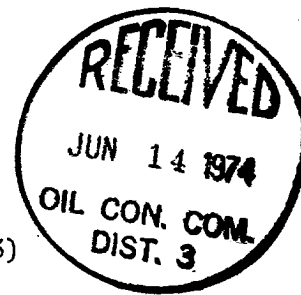
$$Aof = Q \left(\frac{1181569}{1179720} \right)^n = 405(1.0016)^{.85} = 405(1.0013)$$

$$Aof = \underline{406} \text{ MCF/D}$$

Note: The well produced a light fog of water and distillate during the test.

TESTED BY C. R. Wagner

WITNESSED BY _____



Loren W Fothergill
Loren W. Fothergill
Well Test Engineer