

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 5, 1978

| | | | |
|--|------------------------------|------------------------------------|----------------------------|
| Operator El Paso Natural Gas Company | | Lease S.J. 32-9 Unit #93 | |
| Location SE 12-31-10 | | County San Juan | State New Mexico |
| Formation Pictured Cliffs | | Pool Blanco | |
| Casing: Diameter 2 7/8 | Set At: Feet 3580' | Tubing: Diameter T/C | Set At: Feet -- |
| Pay Zone: From 3388 | To 3445' | Total Depth: 3580 | Shut In 9-28-78 |
| Stimulation Method Sandwater Frac | | Flow Through Casing | Flow Through Tubing |

| | | | | | |
|--|---------------------------|--------------------------|---|--------------------------|--|
| Choke Size, Inches | | Choke Constant: C | | | |
| Shut-In Pressure, Casing, PSIG 747 | + 12 = PSIA 759 | Days Shut-In 7 | Shut-In Pressure, Tubing PSIG T/C | + 12 = PSIA -- | |
| Flowing Pressure: P PSIG | + 12 = PSIA | | Working Pressure: P _w PSIG | + 12 = PSIA | |
| Temperature: T = °F Ft = | n = | | Fpv (From Tables) | Gravity Fg = | |

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

$$Q = \text{_____ MCF/D}$$

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

$$Aof = \left(\text{_____} \right)^n =$$

$$Aof = \text{_____ MCF/D}$$

TESTED BY J. Thurstonson

WITNESSED BY _____

C. R. [Signature]
Well Test Engineer