

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE August 10, 1978

|   |                       |  |                       |
|---|-----------------------|--|-----------------------|
| Operator<br>El Paso Natural Gas Company |                       | Lease<br>S.J. 32-9 Unit #20-A              |                       |
| Location<br>SE 18-31-09                 |                       | County<br>San Juan                         | State<br>New Mexico   |
| Formation<br>Mesa Verde                 |                       | Pool<br>Blanco                             |                       |
| Casing: Diameter<br>4.500               | Set At: Feet<br>6122' | Tubing: Diameter<br>2 3/8                  | Set At: Feet<br>5974' |
| Pay Zone: From<br>4919                  | To<br>5963'           | Total Depth:<br>6122'                      | Shut In<br>8-2-78     |
| Stimulation Method<br>Sandwater Frac    |                       | Flow Through Casing<br>Flow Through Tubing |                       |

|                                |             |                   |                                       |              |  |
|--------------------------------|-------------|-------------------|---------------------------------------|--------------|--|
| Choke Size, Inches             |             | Choke Constant: C |                                       |              |  |
| Shut-In Pressure, Casing, PSIG | + 12 = PSIA | Days Shut-In      | Shut-In Pressure, Tubing PSIG         | + 12 = PSIA  |  |
| 722                            | 734         | 8                 | 438                                   | 450          |  |
| Flowing Pressure: P PSIG       | + 12 = PSIA |                   | Working Pressure: P <sub>w</sub> PSIG | + 12 = PSIA  |  |
| Temperature: T = °F            | Ft =        | n =               | Fpv (From Tables)                     | Gravity Fg = |  |

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

Q =

= \_\_\_\_\_ MCF/D

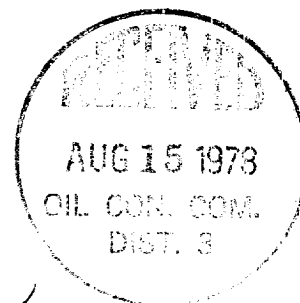
$$\text{OPEN FLOW} = Aof = Q \left( \frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left( \frac{\quad}{\quad} \right)^n =$$

Aof = \_\_\_\_\_ MCF/D

TESTED BY J. Thurstonson

WITNESSED BY \_\_\_\_\_



*C.R. Wagner*  
Well Test Engineer