

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 8-20-71

|                                                |                      |                                |                            |
|------------------------------------------------|----------------------|--------------------------------|----------------------------|
| Operator<br>El Paso Natural Gas Company        |                      | Lease<br>Huerfano Unit No. 217 |                            |
| Location<br>1450' N, 1450' E, S 29, T27N, R10W |                      | County<br>San Juan             | State<br>New Mexico        |
| Formation<br>Dakota                            |                      | Pool<br>Basin                  |                            |
| Casing: Diameter<br>4.500                      | Set At: Feet<br>6496 | Tubing: Diameter<br>2.375      | Set At: Feet<br>6376       |
| Pay Zone: From<br>6191                         | To<br>6366           | Total Depth:<br>6498           | Shut In<br>8-12-71         |
| Stimulation Method<br>S W F                    |                      | Flow Through Casing            | Flow Through Tubing<br>XXX |

|                                          |                             |                        |                                              |                                           |             |
|------------------------------------------|-----------------------------|------------------------|----------------------------------------------|-------------------------------------------|-------------|
| Casing Size, Inches<br>4" MR 2.750" plt. |                             | Constant: C<br>41.9208 |                                              | this well tested thru 3/4" variable choke |             |
| Shut-In Pressure, Casing, PSIG<br>1928   | + 12 = PSIA<br>1940         | Days Shut-In<br>8      | Shut-In Pressure, Tubing PSIG<br>1926        | + 12 = PSIA<br>1938                       |             |
| Flowing Pressure: P<br>MR 24 WH 92       | + 12 = PSIA<br>MR 36 WH 104 |                        | Working Pressure: P <sub>w</sub> PSIG<br>472 | + 12 = PSIA<br>484                        |             |
| Temperature:<br>T = 84 °F                | n =<br>Ft = .9777           |                        | Fpv (From Tables)                            | Gravity<br>.700                           | Fg = 1.1952 |

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

$$Q = \text{Calculated from orifice meter readings} = 954 \text{ MCF/D}$$

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

Note: The well produced 31.95 bbls. of 43° gravity oil during the test.

$$Aof = \left( \frac{3763600}{3529344} \right)^n = 954(1.0664)^{.75} = 954(1.0494)$$

$$Aof = 1001 \text{ MCF/D}$$

TESTED BY Don Norton-Bobby Broughton

WITNESSED BY

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