

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE 3-17-70

|                                                            |                      |                                |                           |
|------------------------------------------------------------|----------------------|--------------------------------|---------------------------|
| Operator<br>El Paso Natural Gas Company                    |                      | Lease<br>Huerfano Unit No. 201 |                           |
| Location <u>1456</u><br><u>1050E, 290E, S9, T26N, R10W</u> |                      | County<br>San Juan             | State<br>New Mexico       |
| Formation<br>Dakota                                        |                      | Pool<br>Basin                  |                           |
| Casing: Diameter<br>4.500                                  | Set At: Feet<br>6900 | Tubing: Diameter<br>2.375      | Set At: Feet<br>6824      |
| Pay Zone: From<br>6727                                     | To<br>6836           | Total Depth:<br>6900           | Shut In<br>3-10-70        |
| Stimulation Method<br>SWP                                  |                      | Flow Through Casing            | Flow Through Tubing<br>XX |

|                                          |                             |                              |                                       |                                      |             |
|------------------------------------------|-----------------------------|------------------------------|---------------------------------------|--------------------------------------|-------------|
| Choke Size, Inches<br>1" OR, 2.750 plt.  |                             | Choke Constant: C<br>42.9803 |                                       | Tested through a 3/4" variable choke |             |
| Shut-In Pressure, Casing, PSIG<br>1955   | + 12 = PSIA<br>1947         | Days Shut-In<br>7            | Shut-In Pressure, Tubing PSIG<br>1330 | + 12 = PSIA<br>1342                  |             |
| Flowing Pressure: P PSIG<br>143 WH 41 MR | + 12 = PSIA<br>155 WH 52 MR |                              | Working Pressure: Pw PSIG<br>483      | + 12 = PSIA<br>495                   |             |
| Temperature:<br>T = 82 °F Ft = .9795     | n =<br>.75                  |                              | Fpv (From Tables)<br>1.003            | Gravity<br>.700                      | Fg = 1.1922 |

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = \text{Calc. from orifice meter reading} = \underline{1,412} \text{ MCF/D}$$

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

Note: Well produced 49.23 bbl of 42.6 API Gravity oil during test.

$$Aof = \left( \frac{3790809}{3545784} \right)^{n \cdot .75} = (1.0691)^{.75}(1412) = (1.0514)(1412)$$

$$Aof = \underline{1,485} \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

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

*H. L. Kendrick*  
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