

# NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 19 71

Form C-20-2  
Revised 1-1-71

|                    |                    |                     |                    |
|--------------------|--------------------|---------------------|--------------------|
| WELL NAME<br>Basin | PERM. SCORE<br>.75 | FORMATION<br>Dakota | COUNTY<br>San Juan |
|--------------------|--------------------|---------------------|--------------------|

|                                        |                               |                                               |                               |
|----------------------------------------|-------------------------------|-----------------------------------------------|-------------------------------|
| COMPANY<br>El Paso Natural Gas Company |                               | WELL NAME AND NUMBER<br>Huerfano Unit No. 211 |                               |
| TEST TYPE<br>F                         | TEST DATE<br>10               | TEST TIME<br>26N                              | TEST TIME<br>10N              |
| TESTING DEPTH - FEET<br>4.50           | TESTING DEPTH - FEET<br>4.052 | TESTING DEPTH - FEET<br>705.0                 | TESTING DEPTH - FEET<br>2.325 |
| TESTING DEPTH - FEET<br>1.885          | TESTING DEPTH - FEET<br>6950  | TESTING DEPTH - FEET<br>1.708                 | TESTING DEPTH - FEET<br>4921  |
| DATE OF FLOW TEST<br>10-2-71           | DATE OF FLOW TEST<br>10-10-71 | DATE OF FLOW TEST<br>7-13-71                  |                               |

## PRESSURE DATA - ALL PRESSURES IN PSIA

|                                   |                                   |                                  |                                       |                                       |                                      |                              |
|-----------------------------------|-----------------------------------|----------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|------------------------------|
| (a) Flowing Casing Pressure (Dwt) | (b) Flowing Tubing Pressure (Dwt) | (c) Flowing Meter Pressure (Dwt) | (d) Flow Casing Static Pressure (Dwt) | (e) Flow Tubing Static Pressure (Dwt) | (f) Flow Meter Static Pressure (Dwt) | (g) Average A Pressure (Dwt) |
| 358                               | 558                               | 1892                             | 1897                                  | 1892                                  | 0                                    | 358                          |

## FLOW RATE CORRECTION - METER ERROR

|                           |                             |                  |
|---------------------------|-----------------------------|------------------|
| Integrated Volume - MCF/D | Quotient of Item c / Item d | Corrected Volume |
| 336                       | 1.0000                      | 336              |

## WORKING PRESSURE CALCULATION

|              |                      |                                       |         |                       |                      |
|--------------|----------------------|---------------------------------------|---------|-----------------------|----------------------|
| $(1-e^{-s})$ | $(F_c Q_c)^2 (1000)$ | $R^2 = (1-e^{-s}) (F_c Q_c)^2 (1000)$ | $P_c^2$ | $P_w^2 = P_c^2 + R^2$ | $P_w = \sqrt{P_w^2}$ |
| .501         | 9980                 | 3004                                  | 139164  | 131168                | 362                  |

## DELIVERABILITY CALCULATION

|                                                                |     |                                              |       |     |       |     |           |
|----------------------------------------------------------------|-----|----------------------------------------------|-------|-----|-------|-----|-----------|
| $D = Q \left[ \frac{P_c^2 - P_w^2}{P_c^2 - P_w^2} \right]^r =$ | 336 | $\left[ \frac{2684748}{3448496} \right]^r =$ | .7785 | $=$ | .8288 | $=$ | 278 MCF/D |
|----------------------------------------------------------------|-----|----------------------------------------------|-------|-----|-------|-----|-----------|

REMARKS: New Well ; First Delivered September 16, 1971.

## SUMMARY

Item. h 358 Psia  
P<sub>c</sub> 1892 Psia  
Q 336 MCF/D  
P<sub>w</sub> 362 Psia  
P<sub>d</sub> 946 Psia  
D 278 MCF/D

Company EL PASO NATURAL GAS COMPANY

By

Title

Witnessed By

Company

