

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**WELL DELIVERABILITY TEST REPORT FOR 19 69**

Form C122-A  
 Revised 1-1-68

|                           |                              |                            |                             |
|---------------------------|------------------------------|----------------------------|-----------------------------|
| POOL NAME<br><b>Basin</b> | POOL SLOPE<br><b>n = .75</b> | FORMATION<br><b>Dakota</b> | COUNTY<br><b>Rio Arriba</b> |
|---------------------------|------------------------------|----------------------------|-----------------------------|

75931

|                                                            |                                      |                                                |                                                    |                                                   |                                          |
|------------------------------------------------------------|--------------------------------------|------------------------------------------------|----------------------------------------------------|---------------------------------------------------|------------------------------------------|
| COMPANY<br><b>El Paso Natural Gas</b>                      |                                      |                                                | WELL NAME AND NUMBER<br><b>Rincon Unit No. 146</b> |                                                   |                                          |
| UNIT LETTER<br><b>G</b>                                    | SECTION<br><b>23</b>                 | TOWNSHIP<br><b>27</b>                          | RANGE<br><b>6</b>                                  | PURCHASING PIPELINE<br><b>El Paso Natural Gas</b> |                                          |
| CASING O.D. - INCHES<br><b>4.500</b>                       | CASING I.D. - INCHES<br><b>4.012</b> | SET AT DEPTH - FEET<br><b>7800</b>             | TUBING O.D. - INCHES<br><b>2.375</b>               | TUBING I.D. - INCHES<br><b>1.995</b>              | TOP - TUBING PERF. - FEET<br><b>7510</b> |
| GAS PAY ZONE<br>FROM <b>7536</b> TO <b>7748</b>            |                                      | WELL PRODUCING THRU<br>CASING TUBING <b>XX</b> |                                                    | GAS GRAVITY<br><b>.678</b>                        | GRAVITY X LENGTH<br><b>5092</b>          |
| DATE OF FLOW TEST<br>FROM <b>1-24-69</b> TO <b>2-01-69</b> |                                      |                                                | DATE SHUT-IN PRESSURE MEASURED<br><b>12-03-68</b>  |                                                   |                                          |

**PRESSURE DATA - ALL PRESSURES IN PSIA**

|                                                      |                                                          |                                                      |                                                      |                                                             |                                                                           |                                                              |
|------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------|
| (a) Flowing Casing Pressure (DWt)<br><br><b>456</b>  | (b) Flowing Tubing Pressure (DWt)<br><br><b>456</b>      | (c) Flowing Meter Pressure (DWt)<br><br><b>2606</b>  | (d) Flow Chart Static Reading<br><br><b>2584</b>     | (e) Meter Error (Item c - Item d)<br><br><b>2606</b> ✓      | (f) Friction Loss (a-c) or (b-c)<br><br><b>0</b>                          | (g) Average Meter Pressure (Integr.)<br><br><b>456</b>       |
| (h) Corrected Meter Pressure (g+e)<br><br><b>456</b> | (i) Avg. Wellhead Press. $P_t = (h+f)$<br><br><b>456</b> | (j) Shut-in Casing Pressure (DWt)<br><br><b>2606</b> | (k) Shut-in Tubing Pressure (DWt)<br><br><b>2584</b> | (l) $P_w$ = higher value of (i) or (k)<br><br><b>2606</b> ✓ | (m) Del. Pressure $P_d = \frac{50}{1303} \times P_c$<br><br><b>1303</b> ✓ | (n) Separator or Dehydrator Pr. (DWt) for critical flow only |

**FLOW RATE CORRECTION (METER ERROR)**

|                                         |                                                                    |                                                               |                                            |
|-----------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------|
| Integrated Volume - MCF/D<br><b>641</b> | Quotient of $\frac{\text{Item c}}{\text{Item d}}$<br><b>1.0000</b> | $\sqrt{\frac{\text{Item c}}{\text{Item d}}}$<br><b>1.0000</b> | Corrected Volume<br><b>Q = 641</b> ✓ MCF/D |
|-----------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------|

**WORKING PRESSURE CALCULATION**

|                               |                                        |                                                         |                            |                                          |                                      |
|-------------------------------|----------------------------------------|---------------------------------------------------------|----------------------------|------------------------------------------|--------------------------------------|
| $(1-e^{-s})$<br><b>.309</b> ✓ | $(F_c Q_m)^2 (1000)$<br><b>36325</b> ✓ | $R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$<br><b>11224</b> ✓ | $P_t^2$<br><b>207936</b> ✓ | $P_w^2 = P_t^2 + R^2$<br><b>219160</b> ✓ | $P_w = \sqrt{P_w^2}$<br><b>468</b> ✓ |
|-------------------------------|----------------------------------------|---------------------------------------------------------|----------------------------|------------------------------------------|--------------------------------------|

**DELIVERABILITY CALCULATION**

|                                                                              |                                                                |                       |                         |
|------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------|-------------------------|
| $D = Q \left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$<br><b>641</b> | $\left( \frac{5093427}{6572076} \right)^n =$<br><b>.7750</b> ✓ | $=$<br><b>.8259</b> ✓ | $=$<br><b>529</b> MCF/D |
|------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------|-------------------------|

**REMARKS:**

**New well first delivered 1-06-69**

**SUMMARY**

Item h **456** Psia  
 P<sub>c</sub> **2606** Psia  
 Q **641** MCF/D  
 P<sub>w</sub> **468** Psia  
 P<sub>d</sub> **1303** Psia  
 D **529** MCF/D

Company **EL PASO NATURAL GAS COMPANY**  
 Title **Regional Well Test Engineer**  
 Witnessed By \_\_\_\_\_  
 Company \_\_\_\_\_

