

Initial  
Deliverability Test

# NEW MEXICO OIL CONSERVATION COMMISSION WELL DELIVERABILITY TEST REPORT FOR 1968

Form C122-A  
Revised 1-1-68

|                           |                       |                     |                      |
|---------------------------|-----------------------|---------------------|----------------------|
| POOL NAME<br>Undesignated | POOL SLOPE<br>n = .75 | FORMATION<br>Chacra | COUNTY<br>Rio Arriba |
|---------------------------|-----------------------|---------------------|----------------------|

75863

|                                              |                               |                                        |                                                   |                                                    |                                 |
|----------------------------------------------|-------------------------------|----------------------------------------|---------------------------------------------------|----------------------------------------------------|---------------------------------|
| COMPANY<br>El Paso Natural Gas Company       |                               |                                        | WELL NAME AND NUMBER<br>Canyon Largo Unit No. 143 |                                                    |                                 |
| UNIT LETTER<br>C                             | SECTION<br>24                 | TOWNSHIP<br>25                         | RANGE<br>6                                        | PURCHASING PIPELINE<br>El Paso Natural Gas Company |                                 |
| CASING O.D. - INCHES<br>2.875                | CASING I.D. - INCHES<br>2.441 | SET AT DEPTH - FEET<br>3468            | TUBING O.D. - INCHES<br>No Tubing                 | TUBING I.D. - INCHES<br>--                         | TOP - TUBING PERF. - FEET<br>-- |
| GAS PAY ZONE<br>FROM 3297 TO 3406            |                               | WELL PRODUCING THRU<br>CASING X TUBING | GAS GRAVITY<br>.690                               | GRAVITY X LENGTH<br>2275                           |                                 |
| DATE OF FLOW TEST<br>FROM 11-1-68 TO 11-9-68 |                               |                                        | DATE SHUT-IN PRESSURE MEASURED<br>7-25-68         |                                                    |                                 |

## PRESSURE DATA - ALL PRESSURES IN PSIA

|                                           |                                               |                                          |                                        |                                               |                                                     |                                                              |
|-------------------------------------------|-----------------------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------|
| (a) Flowing Casing Pressure (DWt)<br>205  | (b) Flowing Tubing Pressure (DWt)<br>205      | (c) Flowing Meter Pressure (DWt)<br>893  | (d) Flow Chart Static Reading<br>-     | (e) Meter Error (Item c - Item d)<br>893      | (f) Friction Loss (a-c) or (b-c)<br>0               | (g) Average Meter Pressure (Integr.)<br>205                  |
| (h) Corrected Meter Pressure (g+e)<br>205 | (i) Avg. Wellhead Press. $P_i = (h+f)$<br>205 | (j) Shut-in Casing Pressure (DWt)<br>893 | (k) Shut-in Tubing Pressure (DWt)<br>- | (l) $P_c$ = higher value of (j) or (k)<br>893 | (m) Del. Pressure $P_d = \frac{80}{714} P_c$<br>714 | (n) Separator or Dehydrator Pr. (DWt) for critical flow only |

## FLOW RATE CORRECTION (METER ERROR)

|                                   |                                                             |                                                        |                                    |
|-----------------------------------|-------------------------------------------------------------|--------------------------------------------------------|------------------------------------|
| Integrated Volume - MCF/D<br>1019 | Quotient of $\frac{\text{Item c}}{\text{Item d}}$<br>1.0000 | $\sqrt{\frac{\text{Item c}}{\text{Item d}}}$<br>1.0000 | Corrected Volume<br>Q = 1019 MCF/D |
|-----------------------------------|-------------------------------------------------------------|--------------------------------------------------------|------------------------------------|

## WORKING PRESSURE CALCULATION

|                      |                               |                                               |                  |                                |                             |
|----------------------|-------------------------------|-----------------------------------------------|------------------|--------------------------------|-----------------------------|
| $(1-e^{-s})$<br>.152 | $(F_c Q_m)^2 (1000)$<br>31995 | $R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$<br>4863 | $P_i^2$<br>42025 | $P_w^2 = P_i^2 + R^2$<br>46888 | $P_w = \sqrt{P_w^2}$<br>217 |
|----------------------|-------------------------------|-----------------------------------------------|------------------|--------------------------------|-----------------------------|

## DELIVERABILITY CALCULATION

|                                                                     |                                                  |                                             |       |
|---------------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|-------|
| $D = Q \left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 1019$ | $\left( \frac{287653}{750561} \right)^n = .3832$ | $\left( \frac{4870}{4868} \right)^n = .496$ | MCF/D |
|---------------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|-------|

REMARKS: New Well First Delivered 10-10-68.

## SUMMARY

|                |      |       |
|----------------|------|-------|
| Item h         | 205  | Psia  |
| P <sub>c</sub> | 893  | Psia  |
| Q              | 1019 | MCF/D |
| P <sub>w</sub> | 217  | Psia  |
| P <sub>d</sub> | 714  | Psia  |
| D              | 496  | MCF/D |

OK

RECEIVED  
OCT 4 1968  
OIL CON. COM.  
DIST. 3

Company: EL PASO NATURAL GAS COMPANY  
By: H. L. Kendrick  
Regional Well Test Engineer

