

Deliverability

NEW MEXICO OIL CONSERVATION COMMISSION
WELL DELIVERABILITY TEST REPORT FOR 19 68

Form C122-A
Revised 1-1-68

| | | | |
|---------------------------|-----------------------------|----------------------------|---------------------|
| POOL NAME BASIN | POOL SLOPE n = 75 | FORMATION DAKOTA | COUNTY RA |
|---------------------------|-----------------------------|----------------------------|---------------------|

86-575

| | | | | | |
|--|--------------------------------------|---|---|---|--|
| COMPANY EL PASO NATURAL GAS CO | | | WELL NAME AND NUMBER SJ 28-4 UNIT #29 | | |
| UNIT LETTER M | SECTION 31 | TOWNSHIP 28 | RANGE 4 | PURCHASING PIPELINE EL PASO NATURAL GAS CO. | |
| CASING O.D. - INCHES 4.500 | CASING I.D. - INCHES 4.052 | SET AT DEPTH - FEET 8651 | TUBING O.D. - INCHES 2.375 | TUBING I.D. - INCHES 1.995 | TOP - TUBING PERF. - FEET 8383 |
| GAS PAY ZONE FROM 8502 TO 8600 | | WELL PRODUCING THRU CASING _____ TUBING X | | GAS GRAVITY 0.678 | GRAVITY X LENGTH 5684 |
| DATE OF FLOW TEST FROM 03/16/68 TO 03/24/68 | | | DATE SHUT-IN PRESSURE MEASURED 10/10/67 | | |

PRESSURE DATA - ALL PRESSURES IN PSIA

| | | | | | | |
|--|--|--|--|---|---|--|
| (a) Flowing Casing Pressure (DWt) 0 | (b) Flowing Tubing Pressure (DWt) 0 | (c) Flowing Meter Pressure (DWt) 0 | (d) Flow Chart Static Reading 0 | (e) Meter Error (Item c - Item d) 0 | (f) Friction Loss (a-c) or (b-c) 0 | (g) Average Meter Pressure (Integr.) 484 |
| (h) Corrected Meter Pressure (g+e) 484 | (i) Avg. Wellhead Press. $P_f = (h+f)$ 484 | (j) Shut-in Casing Pressure (DWt) 2537 | (k) Shut-in Tubing Pressure (DWt) 2537 | (l) $P_c =$ higher value of (j) or (k) 2537 | (m) Del. Pressure $P_d = 50\% P_c$ 1269 | (n) Separator or Dehydrator Pr. (DWt) for critical flow only |

FLOW RATE CORRECTION (METER ERROR)

| | | | |
|---|--|---|--|
| Integrated Volume - MCF/D 365 | Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0000 | $\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0000 | Corrected Volume Q = 365 MCF/D |
|---|--|---|--|

WORKING PRESSURE CALCULATION

| | | | | | |
|-----------------------------|---------------------------------------|--|--------------------------|--|------------------------------------|
| $(1-e^{-s})$.339 | $(F_c Q_m)^2 (1000)$ 11,779 | $R^2 = (1-e^{-s}) (F_c Q_m)^2 (1000)$ 3993 | P_t^2 234256 | $P_w^2 = P_t^2 + R^2$ 238249 | $P_w = \sqrt{P_w^2}$ 488 |
|-----------------------------|---------------------------------------|--|--------------------------|--|------------------------------------|

DELIVERABILITY CALCULATION

| | | | | | | |
|--|------------|--|-----------------------------|---------------|-----|------------------|
| $D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ | 365 | $\left[\frac{4826008}{6198120} \right]^n =$ | $\left[0.7786 \right]^n =$ | 0.8289 | $=$ | 303 MCF/D |
|--|------------|--|-----------------------------|---------------|-----|------------------|

REMARKS: **New Well First Delivered 3-1-68.**

SUMMARY

| | | |
|--------|-------------|-------|
| Item h | 484 | Psia |
| P_c | 2537 | Psia |
| Q | 365 | MCF/D |
| P_w | 488 | Psia |
| P_d | 1269 | Psia |
| D | 303 | MCF/D |

Company **EL PASO NATURAL GAS CO**
By _____
Title _____
Witnessed By _____
Company _____



