# NEW MEXICO OIL CONSERVATION COMMISSION
## GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

### (TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA EXCEPT BARKER DOME STORAGE AREA)

Pool **South Blanco Pictured Cliff** Formation **Pictured Cliff** County **Rio Arriba**

Purchasing Pipeline **El Paso Natural Gas Company** Date Test Filed _____

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Operator **El Paso Natural Gas Co.** Lease **Rincon** Well No. **67**

Unit **I** Sec. **22** Twp. **27N** Rge. **7W** Pay Zone: From **3072** To **3090**

Casing: OD **5½** WT. **15.5** Set At **3150** Tubing: OD **2** WT. **4.7** T. Perf. **3057**

Produced Through: Casing _____ Tubing **X** Gas Gravity: Measured **.645** Estimated _____

Date of Flow Test: From **12/8/56** To **12/17/56** * Date S.I.P. Measured **9/17/56 (9 days)**

Meter Run Size **4** Orifice Size _____ Type Chart **Sq. Rt.** Type Taps **Flange**

## OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)

Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)

Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia (c)

Flowing meter pressure (meter reading when Dwt. measurement taken:

    Normal chart reading _____ psig + 12 = _____ psia (d)

    Square root chart reading ( _____ )$^2$ x spring constant _____ = _____ psia (d)

Meter error (c) - (d) or (d) - (c) ± = _____ psi (e)

Friction loss, Flowing column to meter:

    (b) - (c) Flow through tubing: (a) - (c) Flow through casing = _____ psi (f)

Seven day average static meter pressure (from meter chart):

    Normal chart average reading _____ psig + 12 = _____ psia (g)

    Square root chart average reading ( **7.45** )$^2$ x sp. const. **5** = **278** psia (g)

    Corrected seven day avge. meter press. ($p_f$) (g) + (e) = **278** psia (h)

$P_t$ = (h) + (f) = **278** psia (i)

Wellhead casing shut-in pressure (Dwt) **1018** psig + 12 = **1030** psia (j)

Wellhead tubing shut-in pressure (Dwt) **1017** psig + 12 = **1029** psia (k)

$P_c$ = (j) or (k) whichever well flowed through = **1029** psia (l)

Flowing Temp. (Meter Run) **64** °F + 460 = **524** °Abs (m)

$P_d = \frac{1}{2} P_c = \frac{1}{2}$ (l) = **515** psia (n)

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## FLOW RATE CALCULATION

$$Q = \underline{\hspace{2cm}} \quad X \quad \left( \frac{\sqrt{(c)}}{\sqrt{(d)}} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \right)^* = \underline{\textbf{1414}} \text{ MCF/da}$$

(integrated)

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## DELIVERABILITY CALCULATION

$$D = Q \underline{\textbf{1414}} \left[ \frac{\left(P_c^2 - P_d^2\right) = \textbf{793,616}}{\left(P_c^2 - P_w^2\right) = \textbf{957,875}} \right]^n \frac{.8285}{.8521} = \underline{\textbf{1205}} \text{ MCF/da.}$$

## SUMMARY

$P_c$ = **1029** psia

$Q$ = **1414** Mcf/day

$P_w$ = **318** psia

$P_d$ = **515** psia

$D$ = **1205** Mcf/day

Company **El Paso Natural Gas Co.**

By **Original Signed**

Title **Lewis D. Galloway**

Witnessed by _____

Company _____

\* This is date of completion test.

\* Meter error correction factor

### REMARKS OR FRICTION CALCULATIONS

| GL | (1-e$^{-s}$) | (F$_c$Q)2 | $\frac{(FcQ)^2 \quad (1-e^{-s})}{R^2}$ | $\frac{Pt^2}{(\text{Column i})}$ | $P_t{}^2 + R^2$ | $P_w$ |
|---|---|---|---|---|---|---|
| **1972** | **.134** | **176,730** | **23,682** | **77,284** | **100,966** | **318** |

D @ 250 = **1425**