## 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)

**72-205**

Pool __Blanco__ Formation __Mesa Verde__ County __Rio Arriba__

Purchasing Pipeline __El Paso Natural Gas__ Date Test Filed _____

Operator __El Paso Natural Gas__ Lease __Rincon Unit__ Well No. __101__

Unit __L__ Sec. __1__ Twp. __26__ Rge. __7__ Pay Zone: From __5022__ To __5156__

Casing: OD __5-1/2__ WT. __15.5__ Set At __5275__ Tubing: OD __2__ WT. __4.7__ T. Perf. __5169__

Produced Through: Casing _____ Tubing __X__ Gas Gravity: Measured __.714__ Estimated _____

Date of Flow Test: From __8/30/58__ To __9/7/58__ * Date S.I.P. Measured __5/19/58__

Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

### 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 ( __7.10__ ) $^2$ x sp. const. __10__ = __504__ psia (g)

Corrected seven day avge. meter press. ($p_f$) (g) + (e) = __504__ psia (h)

$P_t$ = (h) + (f) = __504__ psia (i)

Wellhead casing shut-in pressure (Dwt) __1086__ psig + 12 = __1098__ psia (j)

Wellhead tubing shut-in pressure (Dwt) __792__ psig + 12 = __804__ psia (k)

$P_c$ = (j) or (k) whichever well flowed through = __804__ psia (l)

Flowing Temp. (Meter Run) __72__ °F + 460 = __532__ °Abs (m)

$P_d$ = ½ $P_c$ = ½ (l) = __402__ psia (n)

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### FLOW RATE CALCULATION

$$Q = \underline{\hspace{2cm}} \times \left( \frac{\sqrt{(c)}}{\sqrt{(d)}} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \right) = \underline{\textbf{155}} \text{ MCF/da}$$

(integrated)

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### DELIVERABILITY CALCULATION

$$D = Q \underline{\textbf{155}} \left[ \frac{\left( P_c^2 - P_d^2 \right) = \frac{484812}{392400}}{\left( P_c^2 - P_w^2 \right) = \underline{\hspace{1cm}}} \right]^n \frac{1.2355}{1.1720} = \underline{\textbf{182}} \text{ MCF/da.}$$

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### SUMMARY

$P_c$ = __804__ psia

$Q$ = __155__ Mcf/day

$P_w$ = __504__ psia

$P_d$ = __402__ psia

$D$ = __182__ Mcf/day

Company __El Paso Natural Gas__

By __Original Signed__

Title __Harold L. Kendrick__

Witnessed by _____

Company _____

* This is date of completion test.
* Meter error correction factor

### REMARKS OR FRICTION CALCULATIONS

| GL | $(1-e^{-s})$ | $(F_cQ)2$ | $\frac{(F_cQ)^2 \quad (1-e^{-s})}{R^2}$ | $\frac{P_t^2}{\text{(Column i)}}$ | $P_t^2 + R^2$ | $P_w$ |
|---|---|---|---|---|---|---|
| 3691 | .235 | 2.123 | 499 | 254,016 | 254,515 | 504 |

**Friction Negligible**

**D at 500 = 153**