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

72-282-01

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

Pool _____ **Undesignated** _____ Formation **Pictured Cliffs** County **Rio Arriba**

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

Operator **El Paso Natural Gas** _____ Lease **Canyon Largo Unit** _____ Well No. **13**

Unit **A** Sec. **14** Twp. **25** Rge. **6** Pay Zone: From **2692** To **2730**

Casing: OD **5-1/2** WT. **15-1/2** Set At **2774** Tubing: OD **1-1/4** WT. **2.4** T. Perf. **2678**

Produced Through: Casing _____ Tubing **X** Gas Gravity: Measured **682** Estimated _____

Date of Flow Test: From **11/7/58** To **11/15/58** * Date S.I.P. Measured **7/31/58**

Meter Run Size _____ Orifice Size **1.250** 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 (**6.85**)^2 x sp. const. **5** = **235** psia (g)

   Corrected seven day avge. meter press. (p_f) (g) + (e) = **235** psia (h)

P_t = (h) + (f) = **235** psia (i)

Wellhead casing shut-in pressure (Dwt) **849** psig + 12 = **861** psia (j)

Wellhead tubing shut-in pressure (Dwt) **849** psig + 12 = **861** psia (k)

P_c = (j) or (k) whichever well flowed through = **861** psia (l)

Flowing Temp. (Meter Run) **56** °F + 460 = **516** °Abs (m)

P_d = ½ P_c = ½ (l) = **431** psia (n)

FLOW RATE CALCULATION

$$Q = \underline{\quad\quad} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \underline{\quad} = \underline{\quad} \right) = \mathbf{374} \text{ MCF/da}$$
(integrated)

DELIVERABILITY CALCULATION

$$D = Q \, \mathbf{374} \left[\frac{\left(P_c^2 - P_d^2 \right) = \mathbf{555560}}{\left(P_c^2 - P_w^2 \right) = \mathbf{675582}} \right]^n \frac{\mathbf{8223}}{\mathbf{8467}} = \mathbf{317} \text{ MCF/da.}$$

SUMMARY

P_c = **861** psia

Q = **374** Mcf/day

P_w = **256** psia

P_d = **431** psia

D = *317* 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	$(1-e^{-s})$	$(F_cQ)2$	$\frac{(F_cQ)^2 \quad (1-e^{-s})}{R^2}$	$\frac{P_t2}{\text{(Column i)}}$	$P_t^2 + R^2$	P_w
1826	.124	84.787	10.514	55225	65739	256

D at 250 = 368