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)

72-313

Pool **Blanco** _____ Formation **Mesa Verde** _____ County **Rio Arriba** _____

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

Operator **El Paso Natural Gas** _____ Lease **San Juan 28-5** _____ Well No. **30**

Unit **B** ___ Sec. **22** ___ Twp. **28** ___ Rge. **5** ___ Pay Zone: From **5422** ___ To **5900**

Casing: OD **5-1/2** WT. **15.5** Set At **5984** Tubing: OD **2"** WT. **4.7** T. Perf. **5876**

Produced Through: Casing _____ Tubing **X** Gas Gravity: Measured **676** Estimated _____

Date of Flow Test: From **11/29/58** To **12/7/58** * Date S.I.P. Measured **8/11/58 (10)**

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 (**7.50**)^2 x sp. const. **10** = **563** psia (g)

  Corrected seven day avge. meter press. (p_f) (g) + (e) = **563** psia (h)

P_t = (h) + (f) = **563** psia (i)

Wellhead casing shut-in pressure (Dwt) **1050** psig + 12 = **1062** psia (j)

Wellhead tubing shut-in pressure (Dwt) **837** psig + 12 = **849** psia (k)

P_c = (j) or (k) whichever well flowed through = **849** psia (l)

Flowing Temp. (Meter Run) **70** °F + 460 = **530** °Abs (m)

P_d = ½ P_c = ½ (l) = **425** psia (n)

FLOW RATE CALCULATION

$$Q = \underline{\quad\quad} \times \left(\frac{\sqrt{(c)} = \underline{\quad} = \underline{\quad}}{\sqrt{(d)} \quad \underline{\quad}} \right) = \textbf{790} \text{ MCF/da}$$

(integrated)

DELIVERABILITY CALCULATION

$$D = Q \;\textbf{790}\; \frac{\left[\frac{(P_c^2 - P_d^2) = \;\textbf{540176}}{(P_c^2 - P_w^2) = \;\textbf{389983}} \right]^n}{} \;\; \frac{\textbf{1.3851}}{\textbf{1.2768}} = \textbf{1009} \text{ MCF/da.}$$

SUMMARY

P_c = **849** psia

Q = **790** Mcf/day.

P_w = **575** psia

P_d = **425** psia

D = **1009** 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	$(1-e^{-S})$	$(F_cQ)2$	$\dfrac{(F_cQ)^2 \quad (1-e^{-S})}{R^2}$	$\dfrac{P_t^2}{\text{(Column i)}}$	$P_t^2 + R^2$	P_w
3972	.251	55.175	13,849	316,969	330,818	575

D at 500 = 868

OK