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)

100002

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

Purchasing Pipeline **Pacific Northwest**   Date Test Filed _____

Operator **El Paso Natural Gas**   Lease **San Juan 27-4**   Well No. **15**

Unit **B**   Sec. **6**   Twp. **27** Rge. **4**   Pay Zone: From **6174**   To **6324**

Casing: OD **5-1/2** WT. **15.50** Set At **6429** Tubing: OD **2"** WT. **4.7** T. Perf. **6317**

Produced Through: Casing _____ Tubing **X** Gas Gravity: Measured **.688** Estimated ____

Date of Flow Test: From **12/22/58** To **12/30/58*** Date S.I.P. Measured **8/26/58**

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 (**7.19**)^2 x sp. const. **10** = **517** psia   (g)

  Corrected seven day avge. meter press. (p$_f$) (g) + (e)   = **517** psia   (h)

P_t = (h) + (f)   = **517** psia   (i)

Wellhead casing shut-in pressure (Dwt) **1154** psig + 12 = **1166** psia   (j)

Wellhead tubing shut-in pressure (Dwt) **1141** psig + 12 = **1153** psia   (k)

P_c = (j) or (k) whichever well flowed through   = **1153** psia   (l)

Flowing Temp. (Meter Run) **60** °F + 460   = **520** °Abs   (m)

$P_d = \frac{1}{2} P_c = \frac{1}{2}$ (l)   = **577** psia   (n)

FLOW RATE CALCULATION

$$Q = \underline{\hspace{2cm}} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \right)^* = \textbf{483} \text{ MCF/da}$$

(integrated)

DELIVERABILITY CALCULATION

$$D = Q \; \textbf{483} \left[\frac{P_c^2 - P_d^2 =}{P_c^2 - P_w^2 =} \frac{\textbf{996,480}}{\textbf{1056532}} \right]^n \frac{\textbf{.9431}}{\textbf{.9570}} = \textbf{462} \text{ MCF/da.}$$

SUMMARY

P_c = **1153** psia

Q = **483** Mcf/day

P_w = **522** psia

P_d = **577** psia

D = **462** 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$_c$Q)2	$\dfrac{(F_cQ)^2 \;\; (1-e^{-S})}{R^2}$	$\dfrac{Pt^2}{\text{(Column i)}}$	$P_t^2 + R^2$	P_w
4346	**.271**	**20.621**	**5,588**	**267,289**	**272,877**	**522**

D at 500 = 485

OLC