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)

Initial Deliverability Test

72-340

Pool **Blanco** Formation **Mesa Verde** County **San Juan**

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

Operator **El Paso Natural Gas** Lease **Allison** Well No. **13 (M)**

Unit **M** Sec. **12** Twp. **32** Rge. **7** Pay Zone: From **5748** To **5890**

Casing: OD **5.5** WT. **15.5** Set At **5748** Tubing: OD **2** WT. **4.7** T. Perf. **5873**

Produced Through: Casing **X** Tubing _____ Gas Gravity: Measured **.586** Estimated _____

Date of Flow Test: From **7/30/59** To **8/7/59** *Date S.I.P. Measured **9/18/59**

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 = **462** psia (g)

  Square root chart average reading (_____) ^{2} x sp. const. _____ = **462** psia (g)

  Corrected seven day avge. meter press. (p_f) (g) + (e) = **462** psia (h)

P_t = (h) + (f)   **1154** = **1166** psia (i)

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

Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = **1166** psia (k)

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

Flowing Temp. (Meter Run) _____ °F + 460   = **585** °Abs (m)

P_d = ½ P_c = ½ (l)   = _____ psia (n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\underline{\hspace{2cm}}} \quad X \quad \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \right) = \textbf{346} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \; \textbf{346} \left[\frac{P_c^2 - P_d^2 = \textbf{1019667}}{P_c^2 - P_w^2 = \textbf{1146112}} \right]^n \frac{\textbf{.8896}}{\textbf{.9159}} = \textbf{317} \text{ MCF/da.}$$

SUMMARY

P_c = **1166** psia

Q = **346** Mcf/day

P_w = **462** psia

P_d = **585** psia

D = **317** Mcf/day

Company **El Paso Natural Gas Company**

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	$\frac{(F_cQ)^2 \quad (1-e^{-s})}{R^2}$	$\frac{Pt^2}{\text{(Column i)}}$	$P_t^2 + R^2$	P_w
			Friction Negligible			

D at 500 = 335

CORRECTED COPY