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)

TB-195

Pool **South Blanco** Formation **Pictured Cliffs** County **Rio Arriba**

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

Operator **El Paso Natural Gas** Lease **Rincon** Well No. **106**

Unit **0** Sec. **18** Twp. **27** Rge. **6** Pay Zone: From **3184** To **3220**

Casing: OD **5-1/2** WT. **15.5** Set At **3294** Tubing: OD **1-1/4** WT. **2.4** T. Perf. **3184**

Produced Through: Casing _____ Tubing **9/15/58** Gas Gravity: Measured **.720** Estimated _____

Date of Flow Test: From **9/7/58** To **9/15/58** * Date S.I.P. Measured **5/29/58**

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 **6.9** psig + 12 = **250** psia (g)

Square root chart average reading (**6.9**)^2 x sp. const. **5** = **250** psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) = **250** psia (h)

P_t = (h) + (f) = **250** psia (i)

Wellhead casing shut-in pressure (Dwt) **1080** psig + 12 = **1094** psia (j)

Wellhead tubing shut-in pressure (Dwt) **1082** psig + 12 = **1094** psia (k)

P_c = (j) or (k) whichever well flowed through **63** = **1094** psia (l)

Flowing Temp. (Meter Run) _____ °F + 460 = **525** °Abs (m)

$P_d = \frac{1}{2} P_c = \frac{1}{2}$ (l) = **547** psia (n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\rule{2cm}{0.4pt}} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \rule{2cm}{0.4pt} = \rule{1cm}{0.4pt} \right) = \textbf{253} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\ \textbf{253} \left[\frac{\left(P_c^2 - P_d^2 \right)= \textbf{891,627}}{\left(P_c^2 - P_w^2 \right)= \textbf{1,134,256}} \right]^n\ \frac{.7914}{.8195} = \textbf{207} \text{ MCF/da.}$$

SUMMARY

P_c = **1094** psia

Q = **253** Mcf/day

P_w = **250** psia

P_d = **547** psia

D = **207** 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	$(1-e^{-s})$	$(F_cQ)2$	$\dfrac{(F_cQ)^2\ (1-e^{-s})}{R^2}$	$\dfrac{P_t^2}{\text{(Column i)}}$	$P_t^2 + R^2$	P_w
3292	**.153**	**53.000**	**5,936**	**56,644**	**62,580**	**250**

R at 250 = 251