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)

Pool **South Blanco** Formation **Pictured Cliffs** County **San Juan**

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

Operator **El Paso Natural Gas** Lease **Florance** Well No. **11-D (P)**

Unit **G** Sec. **18** Twp. **27** Rge. **8** Pay Zone: From **2826** To **2876**

Casing: OD **7-5/8** WT. **26.4** Set At **4910** Tubing: OD **1-1/4** WT. **2.4** T. Perf. **2848**

Produced Through: Casing _____ Tubing **X** Gas Gravity: Measured **.657** Estimated _____

Date of Flow Test: From **6/29/58** To **7/9/58** * Date S.I.P. Measured **4/7/58**

Meter Run Size _____ Orifice Size **2.250** 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 (**7.20**) ^{2} x sp. const. **5** = **259** psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) = **259** psia (h)

P_t = (h) + (f) = **259** psia (i)

Wellhead casing shut-in pressure (Dwt) **795** psig + 12 = **807** psia (j)

Wellhead tubing shut-in pressure (Dwt) **802** psig + 12 = **814** psia (k)

P_c = (j) or (k) whichever well flowed through = **814** psia (l)

Flowing Temp. (Meter Run) **68** °F + 460 = **528** °Abs (m)

P_d = ½ P_c = ½ (l) = **407** psia (n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\rule{2cm}{0.4pt}} \quad X \quad \left(\frac{\sqrt{(c)} = \rule{1.5cm}{0.4pt} = \rule{1.5cm}{0.4pt}}{\sqrt{(d)} \quad \rule{1.5cm}{0.4pt}} \right)^* = \textbf{1676} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \, \textbf{1676} \quad \left[\frac{(P_c^2 - P_d^2) = \textbf{406947}}{(P_c^2 - P_w^2) = \textbf{379280}} \right]^n \quad \frac{\textbf{1.3102}}{\textbf{1.2582}} = \textbf{2109} \text{ MCF/da.}$$

SUMMARY

P_c = **814** psia
Q = **1676** Mcf/day
P_w = **532** psia
P_d = **407** psia
D = **2109** 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
1871	.127	1702.635	216,235	67,081	283,316	532

D at 250 = 1672