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

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

Operator **El Paso Natural Gas Co.** Lease **San Juan 28-6 Unit** Well No. **49**

Unit **N** Sec. **16** Twp. **28** Rge. **6** Pay Zone: From **5640** To **5804**

Casing: OD **5½** WT. **14** Set At **5804** Tubing: OD **2** WT. **4.7** T. Perf. **5699**

Produced Through: Casing _____ Tubing **X** Gas Gravity: Measured _____ Estimated **.680**

Date of Flow Test: From **2/21** To **2/29** *Date S.I.P. Measured **1/9/56**

Meter Run Size **4** Orifice Size _____ Type Chart **Sq. Rt.** Type Taps **Flange**

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 = **616** psia (g)

Square root chart average reading (**7.85**) ^{2} x sp. const. **10** = **616** psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) = **616** psia (h)

P_t = (h) + (f) = **616** psia (i)

Wellhead casing shut-in pressure (Dwt) **1075** psig + 12 = **1087** psia (j)

Wellhead tubing shut-in pressure (Dwt) **1076** psig + 12 = **1088** psia (k)

P_c = (j) or (k) whichever well flowed through = **1088** psia (l)

Flowing Temp. (Meter Run) **44** °F + 460 = **504** °Abs (m)

$P_d = ½ P_c = ½ (1)$ = **544** psia (n)

FLOW RATE CALCULATION

$$Q = \underline{\hspace{2cm}}_{\text{(integrated)}} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \right) = \textbf{1212} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \; \textbf{1212} \; \left[\frac{P_c^2 - P_d^2 =}{P_c^2 - P_w^2 =} \; \frac{\textbf{887,808}}{\textbf{772,346}} \right]^n \; \frac{\textbf{1.1495}}{\textbf{1.1101}} = \textbf{1345} \text{ MCF/da.}$$

SUMMARY

P_c =	**1088**	psia
Q =	**1212**	Mcf/day
P_w =	**641**	psia
P_d =	**544**	psia
D =	**1345**	Mcf/day

Company **El Paso Natural Gas Company**

By **Original Signed**

Title **Lewis D. Galloway**

Witnessed by _____

Company _____

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)2$	$\frac{(F_cQ)^2 \quad (1-e^{-s})}{R^2}$	$\frac{Pt^2}{\text{(Column i)}}$	$P_t^2 + R^2$	P_w
3875	**.246**	**189.846**	**31,942**	**379,456**	**411,398**	**641**

D @ 500 = **1342**