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 Mesa Verde** 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 27-4** Well No. **10**

Unit **A** Sec. **23** Twp. **27N** Rge. **5W** Pay Zone: From **5050** To **5144**

Casing: OD **5½** WT. **15.5** Set At **5735** Tubing: OD **2** WT. **4.7** T. Perf. **5503**

Produced Through: Casing _____ Tubing **X** Gas Gravity: Measured **.615** Estimated _____

Date of Flow Test: From **5/31** To **6/8** * Date S.I.P. Measured **10/13/55**

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 = **533** psia (g)

Square root chart average reading (**7.30**)^2 x sp. const. **1000** = **533** psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) = **533** psia (h)

P_t = (h) + (f) = **533** psia (i)

Wellhead casing shut-in pressure (Dwt) **960** psig + 12 = **976** psia (j)

Wellhead tubing shut-in pressure (Dwt) **964** psig + 12 = **976** psia (k)

P_c = (j) or (k) whichever well flowed through = **976** psia (l)

Flowing Temp. (Meter Run) **70** °F + 460 = _____ °Abs (m)

$P_d = \frac{1}{2} P_c = \frac{1}{2}$ (l) = **488** psia (n)

FLOW RATE CALCULATION

$Q =$ _____ (integrated) X $\left(\dfrac{\sqrt{(c)}}{\sqrt{(d)}} = \text{_____} = \text{_____} \right)$ * = _____ MCF/da

DELIVERABILITY CALCULATION

$D = Q$ **156** $\left[\dfrac{(P_c^2 - P_d^2) = \mathbf{714,432}}{(P_c^2 - P_w^2) = \mathbf{667,350}} \right]^n$ **1.0694** **1.0637** = **164** MCF/da.

SUMMARY

P_c = **976** psia

Q = **156** Mcf/day

P_w = **533** psia

P_d = **488** psia

D = **164** 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	$(1-e^{-S})$	$(F_cQ)2$	$\dfrac{(FcQ)^2 \quad (1-e^{-S})}{R^2}$	$\dfrac{Pt^2}{\text{(Column i)}}$	$P_t^2 + R^2$	P_w
1000	**.246**	**2.152**	**529**	**284,087**	**284,611**	**533**

D = 500 = 164

OK