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)

72-349-01

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

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

Operator **El Paso Natural Gas** Lease **Burroughs State** Well No. **2**

Unit **G** Sec. **16** Twp. **32** Rge. **10** Pay Zone: From **5328** To **5632**

Casing: OD **5-1/2** WT. **15.5** Set At **5750** Tubing: OD **2** WT. **4.7** T. Perf. **5645**

Produced Through: Casing _____ Tubing **X** Gas Gravity: Measured **.622** Estimated _____

Date of Flow Test: From **11/29/58** To **12/7/58** *Date S.I.P. Measured **9/29/58**

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 _____ psig + 12 = _____ psia (g)

  Square root chart average reading (**7.25**)^2 x sp. const. **10** = **526** psia (g)

  Corrected seven day avge. meter press. (p_f) (g) + (e) = **526** psia (h)

P_t = (h) + (f)   = **526** psia (i)

Wellhead casing shut-in pressure (Dwt) **944** psig + 12 = **956** psia (j)

Wellhead tubing shut-in pressure (Dwt) **944** psig + 12 = **956** psia (k)

P_c = (j) or (k) whichever well flowed through   = **956** psia (l)

Flowing Temp. (Meter Run) **69** °F + 460 = **529** °Abs (m)

P_d = ½ P_c = ½ (l)   = **478** psia (n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\rule{3cm}{0.4pt}} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \rule{2cm}{0.4pt} = \rule{2cm}{0.4pt} \right)^* = \mathbf{914} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\,\mathbf{914} \left[\frac{\left(P_c^2 - P_d^2\right) = 685452}{\left(P_c^2 - P_w^2\right) = 620{,}646} \right]^n \frac{1.1044}{1.0773} = \mathbf{985} \text{ MCF/da.}$$

SUMMARY

P_c = **956** psia

Q = **914** Mcf/day

P_w = **542** psia

P_d = **478** psia

D = **799** 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	$(1-e^{-S})$	$(F_cQ)2$	$(F_cQ)^2$ $(1-e^{-S})$ / R^2	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
3511	.225	73.840	16,614	276676	293290	542

D at 500 = 930