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)

70-071

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

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

Operator **El Paso Natural Gas** _____ Lease **Roelofs A** _____ Well No. **1**

Unit **L** ___ Sec. **10** ___ Twp. **29** ___ Rge. **8** ___ Pay Zone: From **4675** ___ To **5405**

Casing: OD **7** WT. **20** Set At **4651** Tubing: OD **2** WT. **4.7** T. Perf. **4732**

Produced Through: Casing _____ Tubing **X** _____ Gas Gravity: Measured **.702** Estimated _____

Date of Flow Test: From **12/22/58** To **12/30/58** *Date S.I.P. Measured **5/22/58**

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 (**7.05**)^2 x sp. const. **1000** = **497** psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) = **497** psia (h)

P_t = (h) + (f) = **497** psia (i)

Wellhead casing shut-in pressure (Dwt) **714** psig + 12 = **726** psia (j)

Wellhead tubing shut-in pressure (Dwt) **650** psig + 12 = **662** psia (k)

P_c = (j) or (k) whichever well flowed through = **662** psia (l)

Flowing Temp. (Meter Run) **55** °F + 460 = **515** °Abs (m)

P_d = ½ P_c = ½ (l) = **331** psia (n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\underline{\hspace{3cm}}} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \right)^* = \underline{\hspace{2cm}} \text{MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \underline{\quad 248 \quad} \left[\frac{\left(P_c^2 - P_d^2\right) = \; 388,683}{\left(P_c^2 - P_w^2\right) = \; 190,066} \right]^n \; \frac{1.7293}{1.5075} = \underline{\quad 574 \quad} \text{MCF/da.}$$

SUMMARY

P_c = **662** psia

Q = **248** Mcf/day

P_w = **498** psia

P_d = **331** psia

D = **574** 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$_c$Q)2	$\dfrac{(F_cQ)^2 \; (1-e^{-S})}{R^2}$	$\dfrac{P_t^2}{\text{(Column i)}}$	$P_t^2 + R^2$	P_w
3322	.215	5.438	1,169	247,009	248,178	498

D at 500 = 233