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 **San Juan**

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

Operator **El Paso Natural Gas**　　Lease **Barrett**　　Well No. **3**

Unit **K**　Sec. **20**　Twp. **31**　Rge. **9**　Pay Zone: From **5149** To **5739**

Casing: OD **7** WT. **23** Set At **5050** Tubing: OD **2** WT. **4.7** T. Perf. **5185 +**

Produced Through: Casing _____ Tubing **X** Gas Gravity: Measured **.661** Estimated _____

Date of Flow Test: From **6/7/58** To **6/15/58** * Date S.I.P. Measured **4/14/58**

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 (**6.81**)^2 x sp. const. **10** = **464** psia　(g)

　Corrected seven day avge. meter press. (p$_f$) (g) + (e)　= **464** psia　(h)

P_t = (h) + (f)　= **464** psia　(i)

Wellhead casing shut-in pressure (Dwt) **942** psig + 12 = **954** psia　(j)

Wellhead tubing shut-in pressure (Dwt) **925** psig + 12 = **937** psia　(k)

P_c = (j) or (k) whichever well flowed through　= **954** psia　(l)

Flowing Temp. (Meter Run) **72** °F + 460　= **532** °Abs　(m)

P_d = ½ P_c = ½ (l)　= **477** psia　(n)

FLOW RATE CALCULATION

$$Q = \underline{\quad} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \underline{\quad} = \underline{\quad} \right) = \textbf{739} \text{ MCF/da}$$

(integrated)

DELIVERABILITY CALCULATION

$$D = Q\ \textbf{739}\ \left[\frac{\left(P_c^2 - P_d^2 \right) = \textbf{682587}}{\left(P_c^2 - P_w^2 \right) = \textbf{684,151}} \right]^n\ \frac{.9977}{.9983} = \textbf{738} \text{ MCF/da.}$$

SUMMARY

P_c = **954** psia

Q = **739** Mcf/day

P_w = **475** psia

P_d = **477** psia

D = **738** Mcf/day

CORRECTED COPY

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
3427	.221	48.275	10,669	215,296	225,965	475

D at 500 = 701

+ Tubing perforated on 5/22/58 at 5185'. SIPC used for P_c