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__ Lease __San Juan 28-7__ Well No. __78__

Unit __A__ Sec. __19__ Twp. __27__ Rge. __7__ Pay Zone: From __4978__ To __5366__

Casing: OD __5-1/2__ WT. __15.5__ Set At __5407__ Tubing: OD __2__ WT. __4.7__ T. Perf. __5353__

Produced Through: Casing ____ Tubing __X__ Gas Gravity: Measured __.735__ Estimated ____

Date of Flow Test: From __8/23__ To __8/31/57__ Date S.I.P. Measured __2/26/57__

Meter Run Size __4__ Orifice Size __.750__ 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 = ____ psia (g)

Square root chart average reading (__7.75__)^2 x sp. const. __10__ = __601__ psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) = __601__ psia (h)

P_t = (h) + (f) = __601__ psia (i)

Wellhead casing shut-in pressure (Dwt) __1071__ psig + 12 = __1083__ psia (j)

Wellhead tubing shut-in pressure (Dwt) __1071__ psig + 12 = __1083__ psia (k)

P_c = (j) or (k) whichever well flowed through = __1083__ psia (l)

Flowing Temp. (Meter Run) __71__ °F + 460 = __531__ °Abs (m)

P_d = ½ P_c = ½ (1) = __542__ psia (n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\text{\_\_\_\_\_}} \times \left(\frac{\sqrt{\text{(c)}} = \text{\_\_\_} = \text{\_\_\_}}{\sqrt{\text{(d)}} \quad \text{\_\_\_}} \right)^* = \underline{119} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \underline{119} \left[\frac{\left(P_c^2 - P_d^2 \right) = \underline{879,125}}{\left(P_c^2 - P_w^2 \right) = \underline{811,688}} \right]^n \quad \frac{1.0830}{1.0616} = \underline{126} \text{ MCF/da.}$$

SUMMARY

P_c = __1083__ psia

Q = __119__ Mcf/day

P_w = __601__ psia

P_d = __542__ psia

D = __126__ Mcf/day

Company __El Paso Natural Gas Company__

By ____ Lewis D. Galloway

Title ____

Witnessed by ____

Company ____

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_c Q)2$	$\dfrac{(F_c Q)^2 \quad (1-e^{-s})}{R^2}$	$\dfrac{P_t^2}{\text{(Column i)}}$	$P_t^2 + R^2$	P_w
			FRICTION NEGLIGIBLE			

D at 500 = 130