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)

74-585

Pool **Otero Pictured Cliffs** Formation **Pictured Cliffs** County **Rio Arriba**

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

Operator **El Paso Natural Gas** Lease **Donnell** C.L.U **2083** Well No. **#59** **2152**

Unit **J** Sec. **22** Twp. **24** Rge. **6** Pay Zone: From **2083** To **2104**

Casing: OD **5-1/2** WT. **15.50** Set At **2263** Tubing: OD **1-1/4** WT. **.683** T. Perf.

Produced Through: Casing **X** Tubing **3/23** Gas Gravity: Measured **6/8/57 (10 days)** Estimated

Date of Flow Test: From **3/23** To **3/30/58** * Date S.I.P. Measured

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 **6.65** **5** psig + 12 = **221** psia (g)

Square root chart average reading (_____) ^{2} x sp. const. _____ = **221** psia (g)

Corrected seven day avge. meter press. (p$_f$) (g) + (e) = **221** psia (h)

P_t = (h) + (f) **687** = **699** psia (i)

Wellhead casing shut-in pressure (Dwt) **687** psig + 12 = **699** psia (j)

Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = **699** psia (k)

P_c = (j) or (k) whichever well flowed through = **510** psia (l)

Flowing Temp. (Meter Run) **50** °F + 460 = **350** °Abs (m)

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

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\underline{\hspace{2cm}}} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \right) = \underline{\hspace{1cm}} \text{MCF/da}$$

250

DELIVERABILITY CALCULATION

$$D = Q \underset{\textbf{250}}{\underline{\hspace{1cm}}} \left[\frac{\left(P_c^2 - P_d^2 \right) = \textbf{366101}}{\left(P_c^2 - P_w^2 \right) = \textbf{439760}} \right]^n \quad \textbf{.8325} \quad = \underline{\hspace{1cm}} \textbf{214} \text{ MCF/da.}$$

.8558

SUMMARY

P_c = **699** **250** psia

Q = **221** Mcf/day

P_w = **350** psia

P_d = **214** psia

D = _____ 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	$(1-e^{-S})$	$(F_cQ)2$	$\dfrac{(F_cQ)^2 \quad (1-e^{-S})}{R^2}$	$\dfrac{P_t^2}{\text{(Column i)}}$	$P_t^2 + R^2$	P_w
			Friction Negligible			

D at 250 = 240