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)

72-062-01

Pool **South Blanco** Formation **Pictured Cliffs** County **San Juan**

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

Operator **El Paso Natural Gas** Lease **Riddle** Well No. **5-F (P)**

Unit **A** Sec. **32** Twp. **28** Rge. **8** Pay Zone: From **2250** To **2290**

Casing: OD **7-5/8** WT. **264** Set At **2405** Tubing: OD **1-1/4** WT. **2.4** T. Perf. **2281**

Produced Through: Casing _____ Tubing **X** Gas Gravity: Measured **654** Estimated _____

Date of Flow Test: From **4/29/58** To **5/7/58** * Date S.I.P. Measured **11/18/57**

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) $\pm$ = _____ 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 (**7.55**)^2 x sp. const. **5** = **285** psia (g)

   Corrected seven day avge. meter press. (p_f) (g) + (e) = **285** psia (h)

P_t = (h) + (f) = **285** psia (i)

Wellhead casing shut-in pressure (Dwt) **808** psig + 12 = **820** psia (j)

Wellhead tubing shut-in pressure (Dwt) **808** psig + 12 = **820** psia (k)

P_c = (j) or (k) whichever well flowed through = **820** psia (l)

Flowing Temp. (Meter Run) **70** °F + 460 = **530** °Abs (m)

$P_d = \frac{1}{2} P_c = \frac{1}{2}$ (l) = **410** psia (n)

FLOW RATE CALCULATION

$$Q = \underline{\hspace{2cm}} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \right)^* = \underline{\hspace{1cm}} \textbf{523} \hspace{0.3cm} \text{MCF/da}$$

(integrated)

DELIVERABILITY CALCULATION

$$D = Q \, \underline{\textbf{523}} \left[\frac{P_c^2 - P_d^2 = \textbf{504,300}}{P_c^2 - P_w^2 = \textbf{574,099}} \right]^n \frac{.8784}{.8958} = \underline{\textbf{469}} \hspace{0.3cm} \text{MCF/da.}$$

SUMMARY

P_c = **820** psia

Q = **523** Mcf/day

P_w = **314** psia

P_d = **410** psia

D = **469** 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	$(1-e^{-S})$	$(F_cQ)2$	$(F_cQ)^2 \quad (1-e^{-S})$ / R^2	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
1492	**.103**	**165.791**	**17,076**	**81,225**	**98,301**	**314**

D at 250 = 532