/

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN
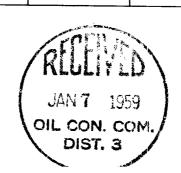### (TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA EXCEPT BARKER DOME STORAGE AREA)

74-705-01

Pool **South Blanco** Formation **Pictured Cliffs** County **Rio Arriba**

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

Operator **El Paso Natural Gas** Lease **Jicarilla** Well No. **7-G**

Unit **G** Sec. **23** Twp. **26** Rge. **5** Pay Zone: From **3164** To **3202**

Casing: OD **5-1/2** WT. **15.5** Set At **3244** Tubing: OD **1-1/4** WT. **2.4** T. Perf. **3163**

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

Date of Flow Test: From **11/29/58** To **12/7/58** * Date S.I.P. Measured **7/31/58**

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 (**6.85**) ^{2} x sp. const. **5** = **235** psia (g)

  Corrected seven day avge. meter press. (p_f) (g) + (e) = **235** psia (h)

P_t = (h) + (f)   = **235** psia (i)

Wellhead casing shut-in pressure (Dwt) **1007** psig + 12 = **1019** psia (j)

Wellhead tubing shut-in pressure (Dwt) **1007** psig + 12 = **1019** psia (k)

P_c = (j) or (k) whichever well flowed through   = **1019** psia (l)

Flowing Temp. (Meter Run)   **57** °F + 460   = **517** °Abs (m)

P_d = ½ P_c = ½ (l)   = **510** psia (n)

FLOW RATE CALCULATION

$$Q = \underline{\hspace{3cm}} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \right)^* = \underline{\textbf{521}} \text{ MCF/da}$$

(integrated)

DELIVERABILITY CALCULATION

$$D = Q \underline{\textbf{521}} \left[\frac{\left(P_c^2 - P_d^2 \right) =}{\left(P_c^2 - P_w^2 \right) =} \frac{\textbf{778,261}}{\textbf{959,937}} \right]^n \frac{\textbf{.8107}}{\textbf{.8366}} = \underline{\textbf{436}} \text{ MCF/da.}$$

SUMMARY

P_c = **1019** psia   Company **El Paso Natural Gas**

Q = **521** Mcf/day   By **Original Signed**

P_w = **280** psia   Title **Harold L. Kendrick**

P_d = **510** psia   Witnessed by _____

D = **436** Mcf/day   Company _____

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)2$	$\dfrac{(F_cQ)^2 \quad (1-e^{-s})}{R^2}$	$\dfrac{Pt^2}{\text{(Column i)}}$	$P_t^2 + R^2$	P_w
2091	.141	164.532	23,199	55,225	78,424	280

D at 250 = 515