Form C-122-A
Revised April 20, 1955

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___**Aztec Pictured Cliff**___Formation___**Pictured Cliff**___County___**San Juan**___

Purchasing Pipeline___**El Paso Natural Gas Company**___Date Test Filed_____

Operator___**El Paso Natural Gas**___Lease___**Morris**___Well No.___**4**___

Unit___**M**___Sec.___**28**___Twp.___**30N**___Rge.___**11W**___Pay Zone: From___**2289**___To___**2234**___

Casing: OD___**7**___WT.___**20**___Set At___**2289**___Tubing: OD___**1¼**___WT.___**2.3**___T. Perf.___**2310**___

Produced Through: Casing_____Tubing___**X**___Gas Gravity: Measured___**.645**___Estimated_____

Date of Flow Test: From___**7/16**___To___**7/23**___* Date S.I.P. Measured___**3/20/56**___

Meter Run Size___**4**___Orifice Size_____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 = __**211**__ psia (g)

  Square root chart average reading (__**6.50**__) ^{2} x sp. const.__**5**__ = __**211**__ psia (g)

  Corrected seven day avge. meter press. (p_f) (g) + (e) = __**211**__ psia (h)

P_t = (h) + (f) = __**211**__ psia (i)

Wellhead casing shut-in pressure (Dwt) __**639**__ psig + 12 = __**651**__ psia (j)

Wellhead tubing shut-in pressure (Dwt) __**639**__ psig + 12 = __**651**__ psia (k)

P_c = (j) or (k) whichever well flowed through = __**651**__ psia (l)

Flowing Temp. (Meter Run) __**78**__ °F + 460 = __**538**__ °Abs (m)

P_d = ½ P_c = ½ (l) = __**326**__ psia (n)

FLOW RATE CALCULATION

$$Q = \underline{\hspace{2cm}} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \underline{\hspace{1.5cm}} = \underline{\hspace{1cm}} \right) = \underline{\hspace{1.5cm}} \mathbf{40} \quad \text{MCF/da}$$

(integrated)

DELIVERABILITY CALCULATION

$$D = Q \underline{\quad \mathbf{40} \quad} \left[\frac{\left(P_c^2 - P_d^2 \right) = \mathbf{317,525}}{\left(P_c^2 - P_w^2 \right) = \mathbf{379,200}} \right]^n \frac{\mathbf{.8371}}{\mathbf{.8598}} = \underline{\quad \mathbf{34} \quad} \text{MCF/da.}$$

SUMMARY

P_c = __**651**__ psia

Q = __**40**__ Mcf/day

P_w = __**211**__ psia

P_d = __**326**__ psia

D = __**34**__ Mcf/day

Company___**El Paso Natural Gas Company**___

By___Original Signed___

Title___Lewis D. Galloway___

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 @ 250 = 38