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____South Blanco____ Formation____Pictured Cliff____ County____San Juan____

Purchasing Pipeline____El Paso Natural Gas Company____ Date Test Filed____

Operator____El Paso Natural Gas Co.____ Lease____G. Hughes____ Well No.____4-3____

Unit____A____ Sec.____3____ Twp.____27____ Rge.____9____ Pay Zone: From____2289____ To____2365____

Casing: OD____5½____ WT.____15.5____ Set At____2294____ Tubing: OD____1____ WT.____1.68____ T. Perf.____2323____

Produced Through: Casing____X____ Tubing____ Gas Gravity: Measured____.645____ Estimated____

Date of Flow Test: From____4/30____ To____5/8____ *Date S.I.P. Measured____12/9/55____

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 = ____ psia   (g)

Square root chart average reading (____7.75____)^2 x sp. const.____5____ = ____300____ psia   (g)

Corrected seven day avge. meter press. (p_f) (g) + (e)   = ____300____ psia   (h)

P_t = (h) + (f)   = ____300____ psia   (i)

Wellhead casing shut-in pressure (Dwt)____747____ psig + 12 = ____759____ psia   (j)

Wellhead tubing shut-in pressure (Dwt)____747____ psig + 12 = ____759____ psia   (k)

P_c = (j) or (k) whichever well flowed through   = ____759____ psia   (l)

Flowing Temp. (Meter Run)____58____°F + 460   = ____518____ °Abs   (m)

P_d = ½ P_c = ½ (l)   = ____380____ psia   (n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\underline{\qquad}} \times \left(\frac{\sqrt{(c)} = \underline{\qquad} = \underline{\qquad}}{\sqrt{(d)}} \right) = \underline{\quad 509 \quad} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\ \underline{509}\ \left[\frac{P_c^2 - P_d^2 = \underline{431,681}}{P_c^2 - P_w^2 = \underline{456,681}} \right]^n\ \frac{.8880}{.9040} = \underline{460}\ \text{ MCF/da.}$$

SUMMARY

P_c = ____759____ psia

Q = ____509____ Mcf/day

P_w = ____300____ psia

P_d = ____380____ psia

D = ____460____ 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	$(1-e^{-S})$	$(F_cQ)2$	$(F_cQ)^2$ R^2	$(1-e^{-S})$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
			FRICTION ENGINEERING				

D @ 250 = 528

OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received 3		
DISTRIBUTION		
	NO. FURNISHED	
Operator		
Santa Fe	/	
Proration Office		
State Land Office		
U. S. G. S.	/	
Transporter		
File	/	↙