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 Blanco Formation Mesa Verde County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed

Operator El Paso Natural Gas Lease San Juan 28-7 Well No. 51

Unit B Sec. 24 Twp. 28 Rge. 7 Pay Zone: From 4980 To 5076

Casing: OD 7 5/8 WT. 26.4 Set At 3618 Tubing: OD 2 WT. 4.7 T. Perf. 5593
5½ at 5717

Produced Through: Casing Tubing X Gas Gravity: Measured .700 Estimated

Date of Flow Test: From 1/16/57 To 1/24 * Date S.I.P. Measured 7/17/56 (9 days)

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 (7.35) ^{2} x sp. const. 10	= 540	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 540	psia	(h)
P_t = (h) + (f)	= 540	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1069	psig + 12 = 1081	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1061	psig + 12 = 1073	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 1073	psia	(l)
Flowing Temp. (Meter Run) 66 °F + 460	= 526	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 537	psia	(n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\quad} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \quad = \quad \right)^{*} = 1208 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{\left(P_c^2 - P_d^2\right)}{\left(P_c^2 - P_w^2\right)} = \frac{862,960}{827,736} \right]^{n} \frac{1.0425}{1.0317} = 1246 \text{ MCF/da.}$$

SUMMARY

P_c =	1073	psia
Q =	1208	Mcf/day
P_w =	569	psia
P_d =	537	psia
D =	1246	Mcf/day

Company El Paso Natural Gas Company
By Original Signed
Title Lewis D. Galloway
Witnessed by
Company

RECEIVED
FEB 8 1957
OIL CON. COM.
DIST. 3

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

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)2$	$\frac{(FcQ)^2}{R^2}$ $(1-e^{-s})$	Pt^2 (Column i)	$P_t^2 + R^2$	P
3915	.248	129.004	31,993	291,600	323,593	569

D @ 500 = 1239