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 San Juan

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease Stewart Well No. 2-A

Unit M Sec. 32 Twp. 30 Rge. 10 Pay Zone: From 4468 To 4704

Casing: OD 5-1/2 WT. 15.5 Set At 4904 Tubing: OD 2 WT. 4.7 T. Perf. 4691

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .735 Estimated ____

Date of Flow Test: From 7/16 To 7/24/57 * Date S.I.P. Measured 3/27/57 (11 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 (6.65)^2 x sp. const. 10	=	442	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	442	psia	(h)
P_t = (h) + (f)	=	442	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1042	psig + 12 =	1054	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1045	psig + 12 =	1057	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1057	psia	(l)
Flowing Temp. (Meter Run) 104 °F + 460	=	564	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	529	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{____ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^{*} = 293 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{837,408}{920,200} \right]^{n} \frac{.9100}{.9317} = 273 \text{ MCF/da.}$$

SUMMARY

P_c =	1057	psia	
Q =	293	Mcf/day	
P_w =	444	psia	
P_d =	529	psia	
D =	273	Mcf/day	

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

* 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 (Col	R^2	P_w
3448	.222	7.590	1,685	195,364	197,049	444

RECEIVED
AUG 5 1957
OIL CON. COM.

D at 500 = 277