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: South Blanco Formation: Pictured Cliff County: Rio Arriba

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

Operator: El Paso Natural Gas Lease: Johnston State Well No.: 2

Unit: B Sec.: 36 Twp.: 26 Rge.: 6 Pay Zone: From: 2860 To: 2870

Casing: OD 5 1/2 WT. 15.5 Set At 2900 Tubing: OD 1 1/4 WT. 2.3 T. Perf. 2825

Produced Through: Casing _____ Tubing X Gas Gravity: Measured .685 Estimated _____

Date of Flow Test: From 6/8/57 To 6/16/57 * Date S.I.P. Measured 10/19/56 (8 days)

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 (7.40)^2 x sp. const. 5	=	274	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	274	psia	(h)
P_t = (h) + (f)	=	274	psia	(i)
Wellhead casing shut-in pressure (Dwt) 993	psig + 12 =	1005	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 993	psig + 12 =	1005	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1005	psia	(l)
Flowing Temp. (Meter Run) 62 °F + 460	=	522	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	503	psia	(n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\_\_\_\_} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \_\_\_\_ = \_\_\_\_ \right)^{*} = 221 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\ 221 \left[\frac{P_c^2 - P_d^2 = 757{,}016}{P_c^2 - P_w^2 = 931{,}071} \right]^{n\ .8130/.8387} = 185 \text{ MCF/da.}$$

SUMMARY

P_c =	1005	psia
Q =	221	Mcf/day
P_w =	281	psia
P_d =	503	psia
D =	185	Mcf/day

Company: El Paso Natural Gas

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	$(1-e^{-S})$	$(F_cQ)^2$	$\frac{(F_cQ)^2}{R^2}(1-e^{-S})$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
1935	.131	29.604	3,878	75,076	78,954	281

D at 250 = 222