Form C-122-A
Revised April 20, 1955

Initial Deliverability Test

71-408

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 Undesignated East Company Formation Dakota County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed

Operator El Paso Natural Gas Lease San Juan 27-4 Unit Well No. 7

Unit N Sec. 9 Twp. 27 Rge. 4 Pay Zone: From 7680 To 8026

Casing: OD 5-1/2 WT. 15.5 Set At 8073 Tubing: OD 2 WT. 4.7 T. Perf. 7971

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .640 Estimated ____

Date of Flow Test: From 7/17/57 To 7/24/57* Date S.I.P. Measured Aug. 2, 1956

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 (7.25)^2 x sp. const. 10	=	526	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	526	psia	(h)
P_t = (h) + (f)	=	526	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1824	psig + 12 =	1836	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1234	psig + 12 =	1246	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1246	psia	(l)
Flowing Temp. (Meter Run) 72 °F + 460	=	532	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	623	psia	(n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\_\_\_\_} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\_\_\_\_}{\_\_\_\_} = \_\_\_\_ \right)^{*} = 264 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{116,4387}{1273930} \right]^{n} \frac{.9140}{.9349} = 247 \text{ MCF/da.}$$

SUMMARY

P_c =	1246	psia	
Q =	264	Mcf/day	
P_w =	528	psia	
P_d =	623	psia	
D =	247	Mcf/day	

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

RECEIVED
OCT 3 1957
OIL CON. COM.
DIST. 3

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

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(F_cQ)^2 (1-e^{-s})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
5101	.310	6.160	1,910	276,676	278,586	528

D at 500 = 266