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 Cundiff Well No. 1-X

Unit A Sec. 19 Twp. 32 Rge. 12 Pay Zone: From 4336 To 4490

Casing: OD 5-1/2 WT. 15.5 Set At 4700 Tubing: OD 2" WT. 4.7 T. Perf. 4604

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .705 Estimated ____

Date of Flow Test: From 12-24-57 To 12-31-57 * Date S.I.P. Measured 7-5-57 (12 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 (7.60) ^{2} x sp. const. 10	= 578	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 578	psia	(h)
P_t = (h) + (f)	= 578	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1051	psig + 12 = 1063	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 771	psig + 12 = 783	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 783	psia	(l)
Flowing Temp. (Meter Run) 54 °F + 460	= 514	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 392	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \frac{\quad}{\quad} \right)^{*} = 179 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{459,425}{278,410} \right]^{n} \frac{1.6501}{1.4560} = 261 \text{ MCF/da.}$$

SUMMARY

P_c =	783 psia	Company	El Paso Natural Gas
Q =	179 Mcf/day	By	Original Signed
P_w =	579 psia	Title	Lewis D. Galloway
P_d =	392 psia	Witnessed by	
D =	261 Mcf/day	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 (Column i)	$P_t^2 + R^2$	P_w
3246	.210	2.832	595	334,084	334,679	579

D at 500 = 213

RECEIVED
JAN 22 1958
OIL CON. COM.
DIST. 3