Form C-122-A
Revised April 30, 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 Company Date Test Filed:

Operator: El Paso Natural Gas Lease: Mansfield Well No. 1

Unit: M Sec. 29 Twp. 30 Rge. 9 Pay Zone: From 4178 To 4954

Casing: OD 7 WT. 20 Set At 4145 Tubing: OD 2 WT. 4.7 T. Perf. 4230

Produced Through: Casing Tubing X Gas Gravity: Measured .680 Estimated

Date of Flow Test: From 2/8/58 To 2/16/58 * Date S.I.P. Measured 5-25-57 (7 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) - (a) 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 (5.75) ^{2} x sp. const. 15	=	496	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	496	psia	(h)
P_t = (h) + (f)	=	496	psia	(i)
Wellhead casing shut-in pressure (Dwt) 977	psig + 12 =	989	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 644	psig + 12 =	656 ~~660~~	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	989	psia	(l)
Flowing Temp. (Meter Run) 61 °F + 460	=	521	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	495	psia	(n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\_\_\_\_} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \_\_\_\_ = \_\_\_\_ \right)^{*} = 685 \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q\ 685 \left[\frac{P_c^2 - P_d^2 = 733096}{P_c^2 - P_w^2 = 724266} \right]^n \frac{1.0121}{1.0091} = 691 \text{ MCF/day}$$

SUMMARY

P_c = 989 +	psia	Company	El Paso Natural Gas
Q = 685	Mcf/day	By	Original Signed
P_w = 504	psia	Title	Lewis D. Galloway
P_d = 495	psia	Witnessed by	
D = 691	Mcf/day	Company	

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)^2$	$\frac{(F_cQ)^2 (1-e^{-S})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
8876	.189	41.494	7839	246016	253855	504

R at 500 = 674

+ Tubing perforated 8/10/58 therefore SIPC used for PC

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