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 Aztec Pictured Cliff Formation Pictured Cliff County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed

Operator El Paso Natural Gas Company Lease Morris Well No. 5

Unit H Sec. 29 Twp. 30 Rge. 11 Pay Zone: From 2140 To 2170

Casing: OD 5 1/2 WT. 15.5 Set At 2220 Tubing: OD 1 1/4 WT. 2.3 T. Perf. 2151

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

Date of Flow Test: From 8-23-56 To 8-31-56 * Date S.I.P. Measured 7-25-56

Meter Run Size 4 Orifice Size - Type Chart Sq. Root 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 (6.75) ^{2} x sp. const. 5	= 228	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 228	psia	(h)
P_t = (h) + (f)	= 228	psia	(i)
Wellhead casing shut-in pressure (Dwt) 611	psig + 12 = 623	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 611	psig + 12 = 623	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 623	psia	(l)
Flowing Temp. (Meter Run) 67 °F + 460	=	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 312	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{}{} = \frac{}{} \right)^{*} = 157 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q = 157 \left[\frac{\left(P_c^2 - P_d^2\right) = 290,785}{\left(P_c^2 - P_w^2\right) = 336,145} \right]^{n} \frac{.8650}{.8840} = 139 \text{ MCF/da.}$$

SUMMARY

P_c =	623	psia
Q =	157	Mcf/day
P_w =	228	psia
P_d =	312	psia
D =	139	Mcf/day

Company El Paso Natural Gas Company
By L. D. Galloway by Tom Grant
Title Senior Gas Engr.
Witnessed by
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
			Friction Negligible			

D @ 250 = 150

RECEIVED