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 Formation Pictured Cliff County San Juan

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease Heaton Well No. 9 (P)

Unit B Sec. 32 Twp. 31 Rge. 11 Pay Zone: From 2400 To 2442

Casing: OD 7-5/8 WT. 26.4 Set At 4559 Tubing: OD 1-1/2 WT. 2.3 T. Perf. 2431

Produced Through: Casing X Tubing Gas Gravity: Measured .690 Estimated

Date of Flow Test: From 8/8/57 To 8/16/57* Date S.I.P. Measured 3/13/57 (10 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 (6.70) ^{2} x sp. const. 5	=	224	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	224	psia	(h)
P_t = (h) + (f)	=	224	psia	(i)
Wellhead casing shut-in pressure (Dwt) 635 620	psig + 12 =	647	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	psig + 12 =	632	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	632	psia	(l)
Flowing Temp. (Meter Run) 69 °F + 460	=	529	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	316	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \frac{\quad}{\quad} \right)^{*} = 468 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{299,568}{333,981} \right]^{n} \frac{.8969}{.9116} = 427 \text{ MCF/da.}$$

SUMMARY

P_c =	632 468	psia
Q =	256	Mcf/day
P_w =	316	psia
P_d =	427	psia
D =		Mcf/day

Company El Paso Natural Gas Company

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	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2 (1-e^{-s})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
1677	.115	132.756	15,267	50,176	65,443	256

D at 250 = 447