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

DUAL

Operator El Paso Natural Gas Lease Ludwick Well No. 11-P

Unit B Sec. 19 Twp. 30N Rge. 10W Pay Zone: From 2822 To 2882

Casing: OD 7 WT. 20 & 23 Set At 4716 Tubing: OD 2 WT. 4.7 T. Perf. 5166

5½ @ 1662 - 5¼ @ 4714

Produced Through: Casing X Tubing Gas Gravity: Measured .645 Estimated

Date of Flow Test: From 2/20/57 To 2/28/57 * Date S.I.P. Measured 10/4/56

Meter Run Size 4 Orifice Size Type Chart Sq. Rt. 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 (6.90) ^{2} x sp. const. 5	= 238	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 238	psia	(h)
P_t = (h) + (f)	= 238	psia	(i)
Wellhead casing shut-in pressure (Dwt) 620	psig + 12 = 632	psia	(j)
Wellhead tubing shut-in pressure (Dwt) NV	psig + 12 = NV	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 632	psia	(l)
Flowing Temp. (Meter Run) 57 °F + 460	= 517	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 316	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{\_\_\_\_\_ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^{*} = 281 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{299,568}{342,780} \right]^{n} = 281 \left[\frac{}{} \right]^{.8739}_{.8918} = 251 \text{ MCF/da.}$$

SUMMARY

P_c =	632	psia
Q =	281	Mcf/day
P_w =	238	psia
P_d =	316	psia
D =	251	Mcf/day

Company El Paso Natural Gas Company
By Richard A Ullrich
Title
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 = 273

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