Form C-122-A

Revised April 20, 1955

Initial Deliverability Test

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 Choza Mesa Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed

Operator El Paso Natural Gas Co. Lease San Juan 28-4 Well No. 6-11

Unit P Sec. 11 Twp. 28 Rge. 4 Pay Zone: From 4244 To

Casing: OD 5-1/2 WT. 15.5 Set At 6571 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 4244

Produced Through: Casing X Tubing Gas Gravity: Measured Estimated

Date of Flow Test: From 9-21-60 To 9-29-60 * Date S.I.P. Measured 8-14-60

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 ( )^2 x sp. const.	=		psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	511	psia	(h)
P_t = (h) + (f)	=	511	psia	(i)
Wellhead casing shut-in pressure (Dwt) 911	psig + 12 =	511	psia	(j)
Wellhead tubing shut-in pressure (Dwt) ---	psig + 12 =	923	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	---	psia	(l)
Flowing Temp. (Meter Run) 65 °F + 460	=	923	°Abs *	(m)
P_d = ½ P_c = ½ (l)	=	523 462	psia	(n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\quad} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \quad = \quad \right)^{*} = 56 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\,56 \left[\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right) = \frac{638,485}{590,808} \right]^{n} \quad \begin{matrix} 1.0806 \\ 1.0681 \end{matrix} = 60 \text{ MCF/da.}$$

SUMMARY

P_c =	923	psia	
Q =	56	Mcf/day	
P_w =	511	psia	
P_d =	462	psia	
D =	60	Mcf/day	

Company El Paso Natural Gas Company

By Original Signed H. L. Kendrick

Title Prod. Gas Engineer

Witnessed by

Company

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2 \quad (1-e^{-s})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w

Friction Negligible

* Use SIPC for Pc. SIPT not obtainable.

Intermitter Installed @ 8/22/60

D at 250 = 71