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)

~~74-77501~~ 7240'

Pool South Blanco Formation Pictured Cliffs County San Juan

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease Phillips Well No. 2

Unit E Sec. 32 Twp. 28 Rge. 8 Pay Zone: From 3010 To 3062

Casing: OD 5-1/2 WT. 15.5 Set At 3119 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 3024

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .691 Estimated ____

Date of Flow Test: From 1/22/59 To 1/30/59 * Date S.I.P. Measured 11/5/58

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 (7.85)^2 x sp. const. 5	= 308	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 308	psia	(h)
P_t = (h) + (f)	= 308	psia	(i)
Wellhead casing shut-in pressure (Dwt) 833	psig + 12 = 845	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 833	psig + 12 = 845	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 845	psia	(l)
Flowing Temp. (Meter Run) ____ °F + 460	=	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 423	psia	(n)

FLOW RATE CALCULATION

$$Q = 634 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{1}{\quad} = 1 \right)^{*} = 634 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{535096}{584808} \right]^{n} = 634 \left(\frac{9149}{9272} \right) = 588 \text{ MCF/da.}$$

SUMMARY

P_c =	845	psia
Q =	634	Mcf/day
P_w =	359	psia
P_d =	423	psia
D =	588	Mcf/day

Company El Paso Natural Gas

By ~~Original Signed~~ Harold L. Kendrick

Title

Witnessed by

Company

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)^2$	$\frac{(F_cQ)^2 (1-e^{-S})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
2090	0.141	243.641	34.353	94864	129.217	359

D at 250 = 657