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 Wildcat Formation Dakota County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed

Operator El Paso Natural Gas Lease San Juan 27-4 Well No. 5

Unit A Sec. 7 Twp. 27N Rge. 4W Pay Zone: From 8034 To 8305

Casing: OD 7 WT. 23 & 26 Set At 8089 Tubing: OD 2 WT. 4.7 T. Perf. 8242

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .615 Estimated ____

Date of Flow Test: From 7/16/56 To 7/23/56 * Date S.I.P. Measured 9/14/55

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 7.15	psig + 12 =	511	psia	(g)
Square root chart average reading (____)^2 x sp. const. 10	=	511	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) 2549	psig + 12 =	2561	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 2545	psig + 12 =	2557	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	2557	psia	(l)
Flowing Temp. (Meter Run) 120 °F + 460	=	580	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	1279	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{____ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \text{____} = \text{____} \right)^{*} = 513 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{(P_c^2 - P_d^2) = 4{,}902{,}408}{(P_c^2 - P_w^2) = 6{,}269{,}964} \right]^{n} \frac{.7818}{.8312} = 426 \text{ MCF/da.}$$

SUMMARY

P_c =	2557	psia
Q =	513	Mcf/day
P_w =	518	psia
P_d =	1279	psia
D =	426	Mcf/day

Company El Paso Natural Gas Company
By Original Signed
Title Lewis D. Galloway
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
5069	.308	23.261	7164	261,121	268,285	518

D @ 500 = 513

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OIL CON. COM.
DIST. 3


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