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)

71-715-01

Pool Blanco Formation Mesa Verde County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease San Juan 28-6 Unit Well No. 72

Unit B Sec. 19 Twp. 28 Rge. 6 Pay Zone: From 5048 To 5756

Casing: OD 5-1/2 WT. 14 Set At 5798 Tubing: OD 2 WT. 4.7 T. Perf. 5674

Produced Through: Casing Tubing X Gas Gravity: Measured .704 Estimated

Date of Flow Test: From 6/29/59 To 7/1/59 * Date S.I.P. Measured 12/6/58

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 (7.05) ^{2} x sp. const. 10	= 497	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 497	psia	(h)
P_t = (h) + (f)	= 497	psia	(i)
Wellhead casing shut-in pressure (Dwt) 729	psig + 12 = 741	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 720	psig + 12 = 732	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 732	psia	(l)
Flowing Temp. (Meter Run) 68 °F + 460	= 528	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 366	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \frac{\quad}{\quad} \right)^{*} = 580 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right) = \frac{401,868}{281,322} \right]^{n} \frac{1.4284}{1.3064} = 758 \text{ MCF/da.}$$

SUMMARY

P_c =	732	psia
Q =	580	Mcf/day
P_w =	504	psia
P_d =	366	psia
D =	758	Mcf/day

Company El Paso Natural Gas

By Original Signed

Title Lewis D. Galloway

Witnessed by Harold L. Kendrick

Company

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)^2$	$\frac{(F_cQ)^2 (1-e^{-S})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
3994	.252	29.735	7,493	247,009	254,502	504

D at 500 = 557

Intermitter, 4/9/59

OK

RECEIVED
JUL 27 1959
OIL CON. COM.
DIST. 3