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 Blanco Formation Mesa Verde County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease San Juan 28-7 Unit Well No. 77

Unit N Sec. 32 Twp. 28 Rge. 7 Pay Zone: From 5376 To 5598

Casing: OD 5-1/2 WT. 15.5 Set At 5636 Tubing: OD 2 WT. 4.7 T. Perf. 5535

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .695 Estimated ____

Date of Flow Test: From 10/23/57 To 10/31/57 * Date S.I.P. Measured 3/26/57

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 (7.35)^2 x sp. const. 10	=	540	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	540	psia	(h)
P_t = (h) + (f)	=	540	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1004	psig + 12 =	1016	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1010	psig + 12 =	1022	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1022	psia	(l)
Flowing Temp. (Meter Run) 60 °F + 460	=	520	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	511	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{____ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \text{____} = \text{____} \right)^{*} = 516 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{783,363}{747,142} \right]^{n} \frac{1.0484}{1.0361} = 535 \text{ MCF/da.}$$

SUMMARY

P_c =	1022	psia
Q =	516	Mcf/day
P_w =	545	psia
P_d =	511	psia
D =	535	Mcf/day

Company El Paso Natural Gas
By ____
Title Original Signed
Witnessed by Lewis D. Galloway
Company ____

RECEIVED
DEC 2 1957
OIL CON. COM.
DIST. 3

* 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
3847	.244	23.532	5.742	291,600	297,342	545

D at 500 = 531