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 28-5 Unit Well No. 20

Unit L Sec. 30 Twp. 28 Rge. 5 Pay Zone: From 5116 To 5643

Casing: OD 5-1/2 WT. 15.5 Set At 5760 Tubing: OD 2 WT. 4.7 T. Perf. 5605

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .705 Estimated ____

Date of Flow Test: From 7/16 To 7/24 * Date S.I.P. Measured 5/23/57 (14 days)

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) 1070 1056	psig + 12 = 1082	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	psig + 12 = 1068	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 1068	psia	(l)
Flowing Temp. (Meter Run) 77 °F + 460	= 537	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 534	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^{*} = 1291 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 1291 \left[\frac{855,468}{812,191} \right]^{1.0532} = 1342 \text{ MCF/da.}$$

(1.0532 = 1.0397)

SUMMARY

P_c =	1068	psia
Q =	1291	Mcf/day
P_w =	573	psia
P_d =	534	psia
D =	1342	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	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2}{R^2}$ $(1-e^{-s})$	Pt^2 (Colur	P_w
3952	.250	147.331	36,833	291,600	.3

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

D at 500 = 1324

OK