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)

72-274-01

Pool East Companero Formation Dakota County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease San Juan 27-4 Well No. 16

Unit M Sec. 17 Twp. 27 Rge. 4 Pay Zone: From 7864 To 8016

Casing: OD 5-1/2 WT. 15.5 Set At 7864 Tubing: OD 2" WT. 4.7 T. Perf. 7932

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .601 Estimated ____

Date of Flow Test: From 11/21/58 To 11/29/58 * Date S.I.P. Measured 7/10/58 (13)

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 (7.65)^2 x sp. const. 10	=	585	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	585	psia	(h)
P_t = (h) + (f)	=	585	psia	(i)
Wellhead casing shut-in pressure (Dwt) 2487	psig + 12 =	2499	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 2470	psig + 12 =	2482	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	2482	psia	(l)
Flowing Temp. (Meter Run) 69 °F + 460	=	529	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	1241	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{____ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \text{____} = \text{____} \right)^{*} = 2725 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \, 2725 \left[\frac{\left(P_c^2 - P_d^2\right) = 4620243}{\left(P_c^2 - P_w^2\right) = 5625778} \right]^{n} \, .8212 / .8628 = 2351 \text{ MCF/da.}$$

SUMMARY

P_c = 2482 psia
Q = 2725 Mcf/day
P_w = 731 psia
P_d = 1241 psia
D = 2351 Mcf/day

Company El Paso Natural Gas
By ____
Title ____
Witnessed by ____
Company ____

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)2$	$\frac{(FcQ)^2 (1-e^{-s})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
4767	.293	656,384	1 92321	342225	534546	731

D at 500 = 2753

RECEIVED
DEC 16 1958
OIL CON. COM.
DIST. 3