Form C-122-A
Revised April 20, 1955

70-235
Initial Deliverability Test

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 B - MV Formation MV County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed

Operator El Paso Natural Gas Company Lease Marshall Well No. 1

Unit L Sec. 19 Twp. 29 Rge. 7 Pay Zone: From 5,012 To 5,775

Casing: OD 7 WT. 23 Set At 5,003 Tubing: OD 2 WT. 4.7 T. Perf. 5101

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .761 Estimated ____

Date of Flow Test: From 12/22/58 To 12/30/58 * Date S.I.P. Measured 5-22-58

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 (7.20)^2 x sp. const. 1000	= 518	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 518	psia	(h)
P_t = (h) + (f)	= 518	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1012	psig + 12 = 1024	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 847	psig + 12 = 859	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 859	psia	(l)
Flowing Temp. (Meter Run) 60 °F + 460	= 520	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 430	psia	(n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q\ 251 \left[\frac{P_c^2 - P_d^2 = 552,981}{P_c^2 - P_w^2 = 468,187} \right]^{n} \frac{1.1811}{1.1330} = 284 \text{ MCF/da.}$$

SUMMARY

P_c =	859	psia
Q =	251	Mcf/day
P_w =	519	psia
P_d =	430	psia
D =	284	Mcf/day

Company El Paso Natural Gas Company
By Original Signed
Title Harold L. Kendrick
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
3882	.246	5.570	1,370	268,324	269,694	519

D500 = $\frac{475,737}{469,557} = \frac{1.0131}{1.0098} = .253$

OK

RECEIVED
FEB 17 1959
OIL CON. COM.
DIST. 3