Form C-122-A
Revised April 20, 1955

Initial Deliverability Test

72-452

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 Aztec Formation Pictured Cliffs County San Juan

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease Payne Well No. 2

Unit O Sec. 35 Twp. 30 Rge. 11 Pay Zone: From 3856 To 3880

Casing: OD 5-1/2 WT. 15.5 Set At 2243 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 2147

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .654 Estimated ____

Date of Flow Test: From 8/22/59 To 8/30/59 Date S.I.P. Measured 5/20/59

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 216	psig + 12 =	228	psia	(g)
Square root chart average reading (____)^2 x sp. const.	=	____	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	228	psia	(h)
P_t = (h) + (f)	=	228	psia	(i)
Wellhead casing shut-in pressure (Dwt) 599	psig + 12 =	611	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 599	psig + 12 =	611	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	611	psia	(l)
Flowing Temp. (Meter Run) 69 °F + 460	=	529	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	306	psia	(n)

FLOW RATE CALCULATION

Q = ____ (integrated) $\times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^n$ = 728 MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$ = 728 $\left[\frac{279685}{290177} \right]^{.9638/.9691}$ = 706 MCF/da.

SUMMARY

P_c =	611	psia
Q =	728	Mcf/day
P_w =	288	psia
P_d =	306	psia
D =	706	Mcf/day

Company El Paso Natural Gas
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	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2 \quad (1-e^{-s})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
1401	.097	321.234	31,160	51984	83144	288

D at 250 = 696

RECEIVED
OCT 30 1959
OIL CON. COM.
DIST. 3