Form C-122-A
Revised April 20, 1955

72472 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 Blanco Formation Mesa Verde County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed

Operator El Paso Natural Gas Co. Lease Russell Well No. 5

Unit G Sec. 25 Twp. 28 Rge. 8 Pay Zone: From 4578 To 5192

Casing: OD 5-1/2 WT. 15.5 lbs Set At 5266 Tubing: OD 2 WT. 4.7 T. Perf. 5109

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .689 Estimated ____

Date of Flow Test: From 9/29/59 To 10/7/59 * Date S.I.P. Measured 8/6/59 (10 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	485 psig + 12 =	497	psia	(g)
Square root chart average reading (____)^2 x sp. const.	=	____	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	497	psia	(h)
P_t = (h) + (f)	=	497	psia	(i)
Wellhead casing shut-in pressure (Dwt)	1058 psig + 12 =	1070	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	1058 psig + 12 =	1070	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1070	psia	(l)
Flowing Temp. (Meter Run)	75 °F + 460 =	535	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	535	psia	(n)

FLOW RATE CALCULATION

$$Q = \frac{11033}{8}\ (\text{integrated}) \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^{*} = 1379 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\ 1379 \left[\frac{P_c^2 - P_d^2 = 858675}{P_c^2 - P_w^2 = 859902} \right]^{n} \frac{.9985}{.9989} = 1377 \text{ MCF/da.}$$

SUMMARY

P_c = 1070	psia	Company	El Paso Natural Gas Company
Q = 1379	Mcf/day	By	
P_w = 534	psia	Title	Original Signed
P_d = 535	psia	Witnessed by	Harold L. Kendrick
D = 1377	Mcf/day	Company	

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(F_cQ)^2 (1-e^{-s})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
3520	.226	168.091	37,989	247009	284998	534

D 500 = 1361