Form C-122-A
Revised April 20, 1955

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)

72-105-01

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 28-7 Well No. 97 (M)

Unit A Sec. 21 Twp. 27 Rge. 7 Pay Zone: From 5080 To 5334

Casing: OD 5-1/2 WT. 15.5 Set At 5465 Tubing: OD 2 WT. 4.7 T. Perf. 5334

Produced Through: Casing ^ Tubing X Gas Gravity: Measured .691 Estimated

Date of Flow Test: From 4/21/59 To 4/29/59 * Date S.I.P. Measured 1/5/59

Meter Run Size Orifice Size .500 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 (7.10) ^{2} x sp. const. 10	= 504	psia	(g)
Corrected seven day avge. meter press. (P_f) (g) + (e)	= 504	psia	(h)
P_t = (h) + (f)	= 504	psia	(i)
Wellhead casing shut-in pressure (Dwt) 995	psig + 12 = 1007	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	psig + 12 = 1007	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 518	psia	(l)
Flowing Temp. (Meter Run) 58 °F + 460	= 505	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	psia	(n)

FLOW RATE CALCULATION

Q = (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \frac{\quad}{\quad} \right)^*$ = 91 MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{757816}{756009} \right]^n$ 1.0023 / 1.0010 = 91 MCF/da.

SUMMARY

P_c = 1005 psia
Q = 91 Mcf/day
P_w = 504 psia
P_d = 505 psia
D = 91 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title
Witnessed by Harold L. Kendrick
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 (Column i)	$P_t^2 + R^2$	P_w
			Friction Multiplier			

D at 500 = 90

RECEIVED
SEP 14 1959
OIL CON. COM.
DIST. 3