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)

72-402-CL

Pool South Blanco Formation Pictured Cliffs 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 (PC)

Unit A Sec. 23 Twp. 27 Rge. 7 Pay Zone: From 3120 To 3194

Casing: OD 7-5/8 WT. 26.4 Set At 3213 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 3180

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

Date of Flow Test: From 4/7/59 To 4/15/59 * Date S.I.P. Measured 1/13/59

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	psig + 12 =	psia	(g)
Square root chart average reading (6.90) ^{2} x sp. const. 5	= 238	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 238	psia	(h)
P_t = (h) + (f)	= 238	psia	(i)
Wellhead casing shut-in pressure (Dwt) 932	psig + 12 = 944	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 933	psig + 12 = 945	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 945	psia	(l)
Flowing Temp. (Meter Run) 59 °F + 460	= 519	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 473	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \frac{\quad}{\quad} \right)^* = 592 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{\left(P_c^2 - P_d^2\right) = 666206}{\left(P_c^2 - P_w^2\right) = 208977} \right]^n \frac{.8273}{.8512} = 504 \text{ MCF/da.}$$

SUMMARY

P_c =	945	psia
Q =	592	Mcf/day
P_w =	290	psia
P_d =	473	psia
D =	504	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	$(1-e^{-s})$	$(F_cQ)2$	$\frac{(FcQ)^2 \quad (1-e^{-s})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
1900	.129	212.432	27,404	56,644	84,048	290

D at 250 = 585

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


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