Initial Deliverability Test

74-899

Form C-122-A

Revised April 20, 1955

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 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 28-6 Well No. 85 (P)

Unit G Sec. 25 Twp. 27 Rge. 6 Pay Zone: From 3066 To 3116

Casing: OD 7-5/8 WT. 26.4 Set At 3245 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 3057

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .651 Estimated ____

Date of Flow Test: From 12/15/59 To 12/22/59* Date S.I.P. Measured 10/22/59

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 (____)^2 x sp. const. 230		= 242 psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)		= 242 psia	(h)
P_t = (h) + (f)		= 242 psia	(i)
Wellhead casing shut-in pressure (Dwt) ____ psig + 12 = 1080 psia			(j)
Wellhead tubing shut-in pressure (Dwt) ____ psig + 12 = 1080 psia			(k)
P_c = (j) or (k) whichever well flowed through		= 1080 psia	(l)
Flowing Temp. (Meter Run) 52 °F + 460		= 512 °Abs	(m)
P_d = ½ P_c = ½ (l)		= 540 psia	(n)

FLOW RATE CALCULATION

$$Q = \text{____ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \frac{\quad}{\quad} \right)^{*} = 300 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \, 300 \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{874800}{1100471} \right]^{n} \frac{.7949}{.8227} = 247 \text{ MCF/da.}$$

SUMMARY

P_c = 1080 psia

Q = 300 Mcf/day

P_w = 257 psia

P_d = 540 psia

D = 247 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	$(1-e^{-S})$	$(F_cQ)2$	$\frac{(FcQ)^2}{R^2}$ $(1-e^{-S})$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
1990	.135	54.553	7,365	58564	65929	257

D at 250 = 298

RECEIVED
JAN 18 1960
OIL CON. COM.
DIST. 3