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)

Pool Undesignated Dakota Formation Dakota County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed April 22, 1960

Operator Tennessee Gas Transmission Lease W. O. Berger Gas Unit "A" Well No. 1

Unit J Sec. 22 Twp. 26N Rge. 11W Pay Zone: From 5996' To 6070'

Casing: OD 4 1/2 WT. 9.5# Set At 6146' Tubing: OD 2 3/8" WT. 4.7 T. Perf. 5996'

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .681 Estimated ____

Date of Flow Test: From 3/27/60 To 4/2/60 * Date S.I.P. Measured 12/22/59

Meter Run Size 4" Orifice Size 1.250" Type Chart ____ Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) ____ psig + 12 =	____	psia	(a)
Flowing tubing pressure (Dwt) ____ psig + 12 =	534	psia	(b)
Flowing meter pressure (Dwt) ____ psig + 12 =	497	psia	(c)
Flowing meter pressure (meter reading when Dwt. measurement taken):			
Normal chart reading ____ psig + 12 =	496	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 =	37	psi	(f)
Seven day average static meter pressure (from meter chart):			
Normal chart average reading ____ psig + 12 =	497	psia	(g)
Square root chart average reading (7.05)^2 x sp. const. 1000 =	497	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e) =	497	psia	(h)
P_t = (h) + (f) =	534	psia	(i)
Wellhead casing shut-in pressure (Dwt) ____ psig + 12 =	1967	psia	(j)
Wellhead tubing shut-in pressure (Dwt) ____ psig + 12 =	1967	psia	(k)
P_c = (j) or (k) whichever well flowed through =	1967	psia	(l)
Flowing Temp. (Meter Run) 75 °F + 460 =	535	°Abs	(m)
P_d = ½ P_c = ½ (l) =	984	psia	(n)

FLOW RATE CALCULATION

Q = ____ (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^*$ = 809 MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2 = 3908800}{P_c^2 - P_w^2 = 3567698} \right]^n$ n = .75 .857 = 693 MCF/da.

SUMMARY

P_c = 1967 psia
Q = 809 Mcf/day
P_w = 549 psia
P_d = 983 psia
D = 693 Mcf/day

Company Tennessee Gas Transmission Company
By John J. Leary
Title District Petroleum Engineer
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
4145	.860	37854	13048	285156	298198	549

RECEIVED
APR 25 1960
OIL CON. COM.
DIST. 3