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 8/3/60

Operator Tennessee Gas Transmission Co. Lease USA Walter O. Berger Well No. 5

Unit O Sec. 14 Twp. 26N Rge. 11W Pay Zone: From 6270 To 6400'

Casing: OD 7" WT. 20# Set At 6450' Tubing: OD 2 3/8" WT. 4.7 T. Perf. 6270

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .713 Estimated ____

Date of Flow Test: From 7/10/60 To 7/16/60 * Date S.I.P. Measured 2/22/60

Meter Run Size 4" Orifice Size 2" Type Chart SR Type Taps F

OBSERVED DATA

Flowing casing pressure (Dwt) ____ psig + 12 =	----	psia	(a)
Flowing tubing pressure (Dwt) ____ psig + 12 =	498	psia	(b)
Flowing meter pressure (Dwt) ____ psig + 12 =	484	psia	(c)
Flowing meter pressure (meter reading when Dwt. measurement taken:			
Normal chart reading ____ psig + 12 =	____	psia	(d)
Square root chart reading (6.95)^2 x spring constant 1000 =	483	psia	(d)
Meter error (c) - (d) or (d) - (c) ± =	1	psi	(e)
Friction loss, Flowing column to meter:			
(b) - (c) Flow through tubing: (a) - (c) Flow through casing =	14	psi	(f)
Seven day average static meter pressure (from meter chart):			
Normal chart average reading ____ psig + 12 =	____	psia	(g)
Square root chart average reading (6.95)^2 x sp. const. 1000 =	483	psia	(g)
Corrected seven day avge. meter press. (P_f) (g) + (e) =	484	psia	(h)
P_t = (h) + (f) =	498	psia	(i)
Wellhead casing shut-in pressure (Dwt) dual ____ psig + 12 =	----	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) 86 °F + 460 =	546	°Abs	(m)
P_d = ½ P_c = ½ (l) =	983	psia	(n)

FLOW RATE CALCULATION

$$Q = 1327 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{22.00}{21.95} = \right)^{*} = 1327 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\left\{ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right\} = \frac{2902800}{3587256} \right]^{n} .856 = 1136 \text{ MCF/da.}$$

SUMMARY

P_c = 1967 psia
Q = 1327 Mcf/day
P_w = 529 psia
P_d = 983 psia
D = 1136 Mcf/day

Company Tennessee Gas Transmission Company
By J. J. Lacey
Title District Petroleum Engineer
Witnessed by ____
Company ____

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)^2$	$\frac{(FcQ)^2}{R^2}$ $(1-e^{-S})$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
4560	.282	119963	33829	248004	281833	529

RECEIVED
OIL CON. COM.
DIST. 3