

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 West Edge Dakota Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed June 8, 1960
Operator Tennessee Gas Transmission Company (BNA) Glenn H. Callow Well No. 9
Unit 7 Sec. 28 Twp. 29N Rge. 13W Pay Zone: From 6143' To 6222'
Casing: OD 7" WT. 23 Set At 6380' Tubing: OD 2 3/8" WT. 4.7 T. Perf. 6143'
Produced Through: Casing X Tubing X Gas Gravity: Measured .677 Estimated
Date of Flow Test: From 5/18/60 To 5/24/60 * Date S.I.P. Measured 10/6/59
Meter Run Size 4" Orifice Size 2.5" Type Chart SR Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) psig + 12 = Packer psia (a)
Flowing tubing pressure (Dwt) psig + 12 = 770 psia (b)
Flowing meter pressure (Dwt) psig + 12 = 515 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: = 255 psi (f)
(b) - (c) Flow through tubing; (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading psig + 12 = 512 psia (g)
Square root chart average reading (7.15)² x sp. const. 1000 = 512 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 767 psia (i)
P_t = (h) + (f) = 2026 psia (j)
Wellhead casing shut-in pressure (Dwt) psig + 12 = 2026 psia (k)
Wellhead tubing shut-in pressure (Dwt) psig + 12 = 2026 psia (l)
P_c = (j) or (k) whichever well flowed through = 2026 psia (l)
Flowing Temp. (Meter Run) 67 °F + 460 = 527 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 1013 psia (n)

Q = X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{ } = \text{ }} \right) = \text{2480} \text{ MCF/da}$
(integrated) $\sqrt{(d)} = \text{ }$

DELIVERABILITY CALCULATION

D = Q 2480 $\left[\frac{(P_c^2 - P_d^2) = 3078307}{(P_c^2 - P_w^2) = 3373651} \right]^n \cdot (.9125)^{.75} = \text{2315} \text{ MCF/da.}$

SUMMARY

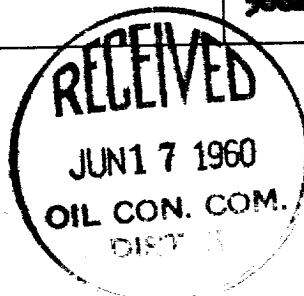
P_c = 2026 psia
Q = 2480 Mcf/day
P_w = 855 psia
P_d = 1013 psia
D = 2315 Mcf/day

Company Tennessee Gas Transmission Company
By J. J. Incey
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 _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
4158	.261	543356	141815	508289	730104	855



the 1990s, the number of people in the world who are under 15 years of age is expected to increase by 1.5 billion (United Nations, 1994). The United Nations also predicts that the number of people in the world who are 65 years of age and older will increase by 1 billion in the next 20 years (United Nations, 1994). The United Nations predicts that the number of people in the world who are 65 years of age and older will increase by 1 billion in the next 20 years (United Nations, 1994).

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