

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 Co. Date Test Filed 6/1/60
Operator Tenn Gas Trans Co Lease (USA) Clyde B. Gartner Well No. 1
Unit D Sec. 27 Twp. 26N Rge. 11W Pay Zone: From 5918' To 6080'
Casing: OD 4 1/2 WT. 9.5 Set At 6135' Tubing: OD 2 3/8 WT. 4.75 T. Perf. 5918
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .690 Estimated _____
Date of Flow Test: From May 8, 1960 To May 14, 1960 Date S.I.P. Measured 12/29/59
Meter Run Size 4" Orifice Size 2.250" Type Chart BE Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = 968 psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = 742 psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = 492 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 = 484 psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = 8 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = 150 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 = 484 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 492 psia (h)
P_t = (h) + (f) _____ = 742 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 2007 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 2007 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 2007 psia (l)
Flowing Temp. (Meter Run) _____ 83 °F + 460 _____ = 543 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 1003 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \underline{3445} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 3445 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \cdot (.9417)^{.75} = \underline{3293} \text{ MCF/da.}$

SUMMARY

P_c = 2007 psia
Q = 3445 Mcf/day
P_w = 905 psia
P_d = 1003 psia
D = 3293 Mcf/day

Company Tennessee Gas Trans. Co.
By J. J. Lacey
Title District 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
<u>4083</u>	<u>.257</u>	<u>1049</u>	<u>269593</u>	<u>550,564</u>	<u>820157</u>	<u>905</u>



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