

Initial Deliverability
Test

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 Beck Formation Beck County San Juan
Purchasing Pipeline Southwest Union Gas Company Date Test Filed January 13, 1961
Operator Antero Oil and Gas Company Lease Beck Well No. 204
Unit 6 Sec. 24 Twp. 24N Rge. 2E Pay Zone: From 600 To 600
Casing: OD 4 1/2 WT 20 Set At 600 Tubing: OD 2 3/8 WT 10 T. Perf. 600
Produced Through: Casing 1 Tubing 1 Gas Gravity: Measured 0.65 Estimated 0.65
Date of Flow Test: From 12/7/60 To 12/7/60 * Date S.I.P. Measured 12/7/60
Meter Run Size 1 Orifice Size 0.005 Type Chart 0.2 Type Taps 1/2

OBSERVED DATA

Flowing casing pressure (Dwt) 1200 psig + 12 = 1212 psia (a)
Flowing tubing pressure (Dwt) 1140 psig + 12 = 1152 psia (b)
Flowing meter pressure (Dwt) 1140 psig + 12 = 1152 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading 1140 psig + 12 = 1152 psia (d)
Square root chart reading (1140) ² x spring constant 1152 psia (d)
Meter error (c) - (d) or (d) - (c) 0 ± 0 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing 0 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading 1140 psig + 12 = 1152 psia (g)
Square root chart average reading (1140) ² x sp. const. 1152 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) 1152 psia (h)
P_f = (h) + (f) 1152 psia (i)
Wellhead casing shut-in pressure (Dwt) 1140 psig + 12 = 1152 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1140 psig + 12 = 1152 psia (k)
P_c = (j) or (k) whichever well flowed through 1152 psia (l)
Flowing Temp. (Meter Run) 509 °F + 460 = 969 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) 576 psia (n)

FLOW RATE CALCULATION

Q = 2978 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 2978 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$ MCF/da.

SUMMARY

P_c = 1152 psia
Q = 2978 Mcf/day
P_w = 1152 psia
P_d = 576 psia
D = 2978 Mcf/day

Company Antero Oil and Gas Company
By ORIGINAL SIGNED BY L. M. STEVENS
Title L. M. Stevens, 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 _d ² (Column 1)

Wellhead casing pressure measured. Well produced through tubing and casing.

OK



