

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 SLOTA
EXCEPT BARKER DOME STORAGE AREA)

Pool Antero Formation Permian County San Juan
Purchasing Pipeline Antero Natural Gas Company Date Test Filled February 4, 1960
Operator Antero Oil & Gas Company Lease Antero Well No. 6
Unit 1 Sec. 13 Twp. 28 Rge. 10 Pay Zone: From 1000 To 1000
Casing: OD 14 WT 9.50 Set At 1000 Tubing: OD 1 WT 1.7 T. Perf. 1000
Produced Through: Casing 1000 Tubing 1000 Gas Gravity: Measured 1000 Estimated 1000
Date of Flow Test: From 1/13 To 1/13/60 Date S.I.P. Measured 1/13/60
Meter Run Size 1 Orifice Size 1.000 Type Chart 1 Type Taps 1

OBSERVED DATA

Flowing casing pressure (Dwt) 1000 psig + 12 = 1000 psia (a)
Flowing tubing pressure (Dwt) 1000 psig + 12 = 1000 psia (b)
Flowing meter pressure (Dwt) 1000 psig + 12 = 1000 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading 1000 psig + 12 = 1000 psia (d)
Square root chart reading (1000) ² x spring constant 1000 = 1000 psia (d)
Meter error (c) - (d) or (d) - (c) 1000 ± = 1000 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing 1000 = 1000 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading 1000 psig + 12 = 1000 psia (g)
Square root chart average reading (1000) ² x sp. const. 1000 = 1000 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) 1000 = 1000 psia (h)
P_t = (h) + (f) 1000 = 1000 psia (i)
Wellhead casing shut-in pressure (Dwt) 1000 psig + 12 = 1000 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1000 psig + 12 = 1000 psia (k)
P_c = (j) or (k) whichever well flowed through 1000 = 1000 psia (l)
Flowing Temp. (Meter Run) 1000 °F + 460 = 1000 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) 1000 = 1000 psia (n)

FLOW RATE CALCULATION

Q = 1000 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{1000}{1000} = 1.000$ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1000 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.579} = \frac{1000}{1000} = 1.000$ MCF/day

SUMMARY

P_c = 1000 psia
Q = 1000 Mcf/day
P_w = 1000 psia
P_d = 1000 psia
D = 1000 Mcf/day

Company Antero Oil & Gas Company
By ORIGINAL SIGNED P. L. STEVENS
Title 1. E. 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})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column 5)		
Friction loss is negligible						

OK



