

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 Antero Formation Flint County San Juan
Purchasing Pipeline Southern Union Gas Company Date Test Filed August 8, 1960
Operator Antero Oil & Gas Company Lease Field Well No. 26
Unit 1 Sec. 28 Twp. 30N Rge. 7W Pay Zone: From 1376 To 2004
Casing: OD 8 7/8 WT. 5.4 Set At 2394 Tubing: OD WT. T. Perf. 2098
Produced Through: Casing X Tubing Gas Gravity: Measured 0.615 Estimated
Date of Flow Test: From 7/1 To 7/6 * Date S.I.P. Measured 8/29/60
Meter Run Size Orifice Size Type Chart Type Taps

OBSERVED DATA

Flowing casing pressure (Dwt) psig + 12 = psia (a)
Flowing tubing pressure (Dwt) psig + 12 = psia (b)
Flowing meter pressure (Dwt) psig + 12 = 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:
(b) - (c) Flow through tubing; (a) - (c) Flow through casing = psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading psig + 12 = 253 psia (g)
Square root chart average reading ()² x sp. const. = psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 293 psia (h)
P_t = (h) + (f) = 293 psia (i)
Wellhead casing shut-in pressure (Dwt) 636 psig + 12 = 650 psia (j)
Wellhead tubing shut-in pressure (Dwt) psig + 12 = psia (k)
P_c = (j) or (k) whichever well flowed through = 650 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 = 500 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 325 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 292 $\left[\frac{(P_c^2 - P_d^2) = 341875}{(P_c^2 - P_w^2) = 70045} \right]^n \frac{0.85}{3.6074} = 3993$ MCF/day

SUMMARY

P_c = 650 psia
Q = 292 Mcf/day
P_w = 325 psia
P_d = 325 psia
D = 3993 1956 Mcf/day

Company Antero Oil & Gas Company
By ORIGINAL SIGNED BY L. M. STEVENS
Title Asst. Dir. of Conservation
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
1376	0.009	2.074	0.006	351.69	352.495	324



