

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 San Juan Formation San Juan County San Juan
Purchasing Pipeline Santa Fe Natural Gas Company Date Test Filed June 6, 1961
Operator Antero Oil and Gas Company Lease McDonnell Well No. 250
Unit 7 Sec. 23 Twp. 22N Rge. 22E Pay Zone: From 600 To 650
Casing: OD 4 1/2 WT. 2.30 Set At 600 Tubing: OD 2 3/8 WT. 1.70 T. Perf. 600
Produced Through: Casing Tubing X Gas Gravity: Measured 0.80 Estimated
Date of Flow Test: From 5/25 To 5/26/61 * Date S.I.P. Measured 6/1/61
Meter Run Size 1 Orifice Size 2.000 Type Chart 0.2 Type Taps 7

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 = psia (g)
Square root chart average reading () ² x sp. const. = psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = psia (i)
Wellhead casing shut-in pressure (Dwt) psig + 12 = psia (j)
Wellhead tubing shut-in pressure (Dwt) psig + 12 = psia (k)
P_c = (j) or (k) whichever well flowed through = psia (l)
Flowing Temp. (Meter Run) °F + 460 = °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = psia (n)

Q = 2000 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \frac{\text{ }}{\text{ }} = \frac{\text{ }}{\text{ }}} \right) = \text{ }$ MCF/day
(integrated)

D = Q 2000 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{0.75} = \text{ }$ MCF/day
 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{0.75} = \frac{2.707-0.00}{2.707-0.00} = 1.00$

SUMMARY

P_c = 2000 psia Company Antero Oil and Gas Company
Q = 2000 Mcf/day By
P_w = 600 psia Title L. E. Shuman, Dist. Eng.
P_d = 0 psia Witnessed by
D = 2000 Mcf/day 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>1.00</u> | <u>0.970</u> | <u>300.00</u> | <u>291.00</u> | <u>2000.00</u> | <u>2000.00</u> | <u>600</u> |



