

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 Antec Formation Pictured Cliffs County San Juan
Purchasing Pipeline Northern Union Gas Company Date Test Filed February 3, 1960
Operator Antec Oil & Gas Company Lease McChesney Well No. 13
Unit A Sec. 24 Twp. 28N Rge. 10E Pay Zone: From 2000 To 2040
Casing: OD 4 1/2 WT 5.70 Set At 2090 Tubing: OD 1 WT 1.7 T. Perf. 2033
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.670 Estimated _____
Date of Flow Test: From 12/31/59 To 1/7/60 * Date S.I.P. Measured 11/7/59
Meter Run Size 1 Orifice Size 1.000 Type Chart A R Type Taps P

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 (7.77) ² x sp. const. 5 _____ = _____ 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) 630 psig + 12 = 642 psia (j)
Wellhead tubing shut-in pressure (Dwt) 630 psig + 12 = 642 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 640 psia (l)
Flowing Temp. (Meter Run) 94 °F + 460 _____ = 924 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 320 psia (n)

FLOW RATE CALCULATION

Q = 630 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{\hspace{2cm}}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 630 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{\hspace{2cm}}$ MCF/da.
 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{297675}{305696}$ n 0.85

SUMMARY

P_c = 630 psia
Q = 630 Mcf/day
P_w = 320 psia
P_d = 320 psia
D = 630 Mcf/day

Company Antec Oil & Gas Company
By ORIGINAL SIGNED BY L. M. STEVENS
Title L. M. Stevens, Dist. 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
Friction Loss Is Negligible						



