

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 Basin Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Company (Products) Date Test Filed April 5, 1961

Operator Antec Oil and Gas Company Lease Angled "D" Well No. 3
Unit F Sec. 34 Twp. 29 Rge. 13 Pay Zone: From 6274 To 6380
Casing: OD 4 1/2 WT. 9.70 Set At 5012 Tubing: OD 2 3/8 WT. 4.70 T. Perf. 6275
Produced Through: Casing Tubing X Gas Gravity: Measured 0.653 Estimated
Date of Flow Test: From 2/27 To 3/4 * Date S.I.P. Measured 3/21/60
Meter Run Size 4 Orifice Size 1.850 Type Chart 8 R Type Taps F

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 (7.15) ² x sp. const. 30 _____ = 211 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) 2843 psig + 12 = 2855 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2843 psig + 12 = 2855 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) 70 °F + 460 _____ = 530 °Abs (m)
P_d = 1/2 P_c = 1/2 (.) _____ = 1428 psia (n)

Q = 696 (integrated) X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right) = \underline{696} \text{ MCF/day}$

DELIVERABILITY CALCULATION

D = Q 696 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.75} \frac{1}{0.0470} = \underline{590} \text{ MCF/day}$

SUMMARY

P_c = 2855 psia
Q = 696 Mcf/day
P_w = 522 psia
P_d = 1428 psia
D = 590 Mcf/day

Company Antec Oil and Gas Company
By ORIGINAL SIGNED BY L. M. STEVENS
Title L. M. Stevens, Dist. Engr.
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
<u>4885</u>	<u>0.257</u>	<u>42.824</u>	<u>11.006</u>	<u>261.121</u>	<u>272.127</u>	<u>522</u>