

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 Elmore NF Formation San Juan County San Juan
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 1-20-56
Operator Falcon Development, Inc. Lease State Well No. 10
Unit A Sec. 2 Twp. 24N Rge. 2E Pay Zone: From 3170 To 3740
Casing: OD 8 1/2 WT. 10 1/2 Set At 3170 Tubing: OD 2" WT. 4.7 T. Perf. 3030
Produced Through: Casing Tubing X Gas Gravity: Measured .600 Estimated
Date of Flow Test: From 12-13-55 To 1-9-56 * Date S.I.P. Measured 12-13-55
Meter Run Size 4" Orifice Size 1 3/4 Type Chart Sp. 10 Type Taps Stange

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 (7.50) ² x sp. const. 10 _____ = 620 psia (g)
Corrected seven day avg. meter press. (p_f) (g) + (e) _____ = 620 psia (h)
P_t = (h) + (f) _____ = 620 psia (i)
Wellhead casing shut-in pressure (Dwt) 1000 psig + 12 = 1012 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1000 psig + 12 = 1012 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1012 psia (l)
Flowing Temp. (Meter Run) 80 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 506 psia (n)

FLOW RATE CALCULATION ✓

Q = 872 (Integrated) X $\left(\frac{\sqrt{(c)} = \text{Prod. Test Only}}{\sqrt{(d)}} \right) = \underline{872} \text{ MCF/day}$

DELIVERABILITY CALCULATION

D = Q 872 ✓ $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{(1.18885)^{.75}}{1.141} = \underline{970} \text{ MCF/day}$ Use

SUMMARY

P_c = 1012 psia
Q = 872 Mcf/day
P_w = 507 psia
P_d = 506 psia
D = 970 Mcf/day

Company Falcon Development, Inc.
By E. H. Russell, Jr.
Title Mgr. Prod. Dept.
Witnessed by Walter Martin
Company Falcon Development, Inc.

- * 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>8707</u>	<u>.500</u>	<u>67,000</u>	<u>15000</u>	<u>300070</u>	<u>300000</u>	<u>507</u>

(0.300)²

OK



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