

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 Ballard Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed February 17, 1958

Operator Wofford Cain Lease Hughes Well No. 4-30
Unit J Sec. 30 Twp. 26N Rge. 7W Pay Zone: From 2187 To 2280
Casing: OD 5 1/2" WT. 14# Set At 2326 Tubing: OD 1" WT. 1.7# T. Perf. 2194
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.664 Estimated _____
Date of Flow Test: From 1-24-58 To 1-31-58 Date S.I.P. Measured 10-11-57
Meter Run Size 5 4" Orifice Size 1.000" Type Chart Sq. Rt. Type Taps Flange

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 (6.80) ² x sp. const. 5 _____ = 231 psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) _____ = 231 psia (h)
P_t = (h) + (f) _____ = 231 psia (i)
Wellhead casing shut-in pressure (Dwt) 725 psig + 12 = 737 psia (j)
Wellhead tubing shut-in pressure (Dwt) 725 psig + 12 = 737 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 737 psia (l)
Flowing Temp. (Meter Run) 51 °F + 460 _____ = 511 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 369 psia (n)

Q = 368 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \frac{1.000}{\sqrt{(d)}}} \right) = \underline{\hspace{2cm}} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 368 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{\hspace{2cm}} \text{ MCF/da.}$
 $\frac{407,008}{489,808}$ ^{0.85} $\frac{0.8544}{0.8544}$

SUMMARY

P_c = 737 psia
Q = 368 Mcf/day
P_w = 231 psia
P_d = 369 psia
D = 314 Mcf/day

Company WOFFORD CAIN
By L. M. Stevens
Title Representative
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 negligible

OK

