

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 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. 5-30
Unit F Sec. 30 Twp. 26N Rge. 7W Pay Zone: From 2165 To 2192
Casing: OD 5 1/2" WT. 14# Set At 2290 Tubing: OD 1" WT. 1.7# T. Perf. 2194
Produced Through: Casing x Tubing _____ Gas Gravity: Measured 0.666 Estimated _____
Date of Flow Test: From 1-24-58 To 1-31-58 * Date S.I.P. Measured 9-14-57
Meter Run Size 4" Orifice Size 1.250" Type Chart Sq. Rt. Type Taps Wlange

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 (6.60) ² x sp. const. 5 = 218 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 218 psia (h)
P_t = (h) + (f) _____ = 218 psia (i)
Wellhead casing shut-in pressure (Dwt) 761 psig + 12 = 773 psia (j)
Wellhead tubing shut-in pressure (Dwt) 761 psig + 12 = 773 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 773 psia (l)
Flowing Temp. (Meter Run) 51 °F + 460 _____ = 511 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 387 psia (n)

Q = 336 (integrated) x $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{_____} = 1.000} \right)^* = \underline{336} MCF/da$

DELIVERABILITY CALCULATION

D = Q 336 $\left[\frac{(P_c^2 - P_d^2) = \underline{447,760}}{(P_c^2 - P_w^2) = \underline{550,005}} \right]^n \frac{0.85}{0.8396} = \underline{282} MCF/da.$

SUMMARY

P_c = 773 psia
Q = 336 Mcf/day
P_w = 218 psia
P_d = 387 psia
D = 282 Mcf/day

WOFFORD CAIN

Company EL PASO NATURAL GAS COMPANY
By D. M. Stevens RS
Title Regional 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

