

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 Aztec Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease Florance Well No. 3-C (P)
Unit K Sec. 19 Twp. 28 Rge. 8 Pay Zone: From 2106 To 2154
Casing: OD 7-5/8 WT. 26.4 Set At 2290 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 2295
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .653 Estimated _____
Date of Flow Test: From 5/1 To 5/9/58 * Date S.I.P. Measured 10/16/57
Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

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 (7.70) ² x sp. const. 5 = 296 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 296 psia (h)
P_t = (h) + (f) _____ = 296 psia (i)
Wellhead casing shut-in pressure (Dwt) 805 psig + 12 = 817 psia (j)
Wellhead tubing shut-in pressure (Dwt) 805 psig + 12 = 817 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 817 psia (l)
Flowing Temp. (Meter Run) 66 °F + 460 _____ = 526 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 409 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{516} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 516 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{(.8880)^{.85}}{.9040} = \underline{466} \text{ MCF/da.}$
516 $\left[\frac{(817^2 - 409^2)}{(817^2 - 323^2)} \right]^{.85} \frac{(.8880)^{.85}}{.9040}$

SUMMARY

P_c = 817 psia
Q = 516 Mcf/day
P_w = 323 psia
P_d = 409 psia
D = 466 Mcf/day
Company El Paso Natural Gas
By Harold A. Hendrich
Title _____
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
1499	.103	161.392	16,623	87,616	104,239	323

D at 250 = 530

