

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 Artec Pictured Cliff Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease Warren Well No. 4(P)
Unit 2 1/4 Sec. 14 Twp. 28 Rge. 9 Pay Zone: From 2454 To 2490
Casing: OD 7-5/8 WT. 26.4 Set At 2618 Tubing: OD 2 WT. 4.7 T. Perf. 4725
Produced Through: Casing I Tubing _____ Gas Gravity: Measured .652 Estimated _____
Date of Flow Test: From 1/8/58 To 1/16/58 * Date S.I.P. Measured 8/21/57
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 (5.30) ² x sp. const. 10 _____ = 281 psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) _____ = 281 psia (h)
P_t = (h) + (f) _____ = 281 psia (i)
Wellhead casing shut-in pressure (Dwt) 816 psig + 12 = 828 psia (j)
Wellhead tubing shut-in pressure (Dwt) 816 psig + 12 = 828 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 828 psia (l)
Flowing Temp. (Meter Run) 55 °F + 460 _____ = 515 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 414 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{411} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 411 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{357} \text{ MCF/da.}$
 $\frac{514,188}{606,623}$ $\frac{.8476}{.8689}$

SUMMARY

P_c = 828 psia
Q = 411 Mcf/day
P_w = 281 psia
P_d = 414 psia
D = 357 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Lewis D. Galloway
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 l)	P _t ² + R ²	P _w
			FRICTION NEGLIGIBLE			

D at 250 = 417

OK



