

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)

71-881
Pool Blanco Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease Bruington P.V. Well No. 3 (M)
Unit I Sec. 6 Twp. 30N Rge. 11W Pay Zone: From 4538 To 4692
Casing: OD 5-1/2 WT. 15.5 Set At 4771 Tubing: OD 2 WT. 4.7 T. Perf. 4610
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .699 Estimated _____
Date of Flow Test: From 4/1/58 To 4/9/58 * Date S.I.P. Measured 4-22-58
Meter Run Size _____ Orifice Size 1.250 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. 10 _____ = 593 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 593 psia (h)
P_t = (h) + (f) _____ = 593 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 800 psig + 12 = 812 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 812 psia (l)
Flowing Temp. (Meter Run) _____ 61 °F + 460 _____ = 521 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 406 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{163} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 163 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{1.6071}{1.4270} = \underline{233} \text{ MCF/da.}$

SUMMARY

P_c = 812 psia
Q = 163 Mcf/day
P_w = 593 psia
P_d = 406 psia
D = 233 Mcf/day

Company El Paso Natural Gas
By Harold L. Kendrick
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	$\frac{(F_c Q)^2 (1-e^{-S})}{R^2}$	P _t ² (Column i)	P _t ² + R ²	P _w
			Friction Negligible			

D at 500 = 197

