

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)

72-157

Pool Alanco Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Florence Well No. 10-B
Unit B Sec. 17 Twp. 27 Rge. 8 Pay Zone: From 5186 To 5306
Casing: OD 5-1/2 WT. 15.5 Set At 5340 Tubing: OD 2 WT. 4.7 T. Perf. 2874
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .730 Estimated _____
Date of Flow Test: From 9/29/58 To 10/7/58 * Date S.I.P. Measured 6/13/58
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 6.85 _____ psig + 12 = 469 _____ psia (g)
Square root chart average reading (_____) ² x sp. const. 10 _____ = 469 _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 469 _____ psia (h)
P_t = (h) + (f) _____ = 890 _____ psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 890 _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 890 _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 890 _____ psia (l)
Flowing Temp. (Meter Run) 70 °F + 460 _____ = 530 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 445 _____ psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{1097}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 1097 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{1.1168}{1.0864} = \underline{1148}$ MCF/da.

SUMMARY

P_c = 890 psia
Q = 1097 Mcf/day
P_w = 494 psia
P_d = 445 psia
D = 1148 Mcf/day

CONNECTED COPY

Company El Paso Natural Gas
By Original Signed
Title Harold L. Kendrick
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
<u>3850</u>	<u>.244</u>	<u>98,764</u>	<u>24,098</u>	<u>219961</u>	<u>244059</u>	<u>494</u>

D at 500 = 998



