

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MEBAVERNE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

Pool Hesperus Main Water Formation Hesperus County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease San Juan 10-0 Well No. 10
Unit M Sec. 1 Twp. 30N Rge. 10W Pay Zone: From 1705 To 2100
Casing: OD 20 WT. 15.4 Set At 1021 Tubing: OD 2 WT. 4.7 T. Perf. 5100
Produced Through: Casing X Tubing _____ Gas Gravity: Measured _____ Estimated _____
Date of Flow Test: From 7/3 To 7/26 * Date S.I.P. Measured 7/26
Meter Run Size 1 Orifice Size _____ Type Chart 20-20 Type Taps 7/8

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 (2.10) ² x sp. const. 10 = 2.10 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 104.7 psig + 12 = 116.7 psia (j)
Wellhead tubing shut-in pressure (Dwt) 104.8 psig + 12 = 116.8 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{V(c)}{V(d)} \right)^* = \underline{1.011} \text{ MCF/day}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1.011 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{1.011} \text{ MCF/day}$
 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right] = \frac{1.011^2}{1.011^2} = 1$

SUMMARY

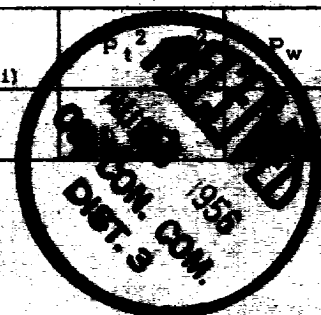
P_c = 116.7 psia
Q = 1.011 Mcf/day
P_w = 116.8 psia
P_d = 116.8 psia
D = 1.011 Mcf/day

Company El Paso Natural Gas Company
By Lewis D. Galloway
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 1)	P _w
<u>1000</u>	<u>.921</u>	<u>66.076</u>	<u>14.84</u>	<u>116.8</u>	<u>116.8</u>



10-10-1955

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