

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 Hlanco Mesa Verde Formation Mesa Verde County El Paso
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Co. Lease San Juan 29-7 Unit Well No. 49
Unit A Sec. 20 Twp. 29 Rge. 7 Pay Zone: From 4880 To 5452
Casing: OD 51 WT. 15.5 Set At 5515 Tubing: OD 2 WT. 4.7 T. Perf. 5423
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .710 Estimated _____
Date of Flow Test: From 2/28 To 3/9/57 * Date S.I.P. Measured 10/24/56
Meter Run Size _____ Orifice Size 2.000 Type Chart Sq. Rt. Type Taps Flange

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 (7.50) ² x sp. const. 1000 = 563 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 563 psia (h)
P_t = (h) + (f) = 563 psia (i)
Wellhead casing shut-in pressure (Dwt) 1075 psig + 12 = 1087 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1054 psig + 12 = 1066 psia (k)
P_c = (j) or (k) whichever well flowed through = 1066 psia (l)
Flowing Temp. (Meter Run) 81 °F + 460 = 541 °Abs (m)
P_d = ½ P_c = ½ (l) = 533 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{1536} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1536 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{1660} \text{ MCF/da.}$
 $\frac{852,267}{768,503}$ $\frac{1.1089}{1.0806}$

SUMMARY

P_c = 1066 psia
Q = 1536 Mcf/day
P_w = 607 psia
P_d = 533 psia
D = 1660 Mcf/day

Company El Paso Natural Gas Company
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 i)	P _t ² + R ²	P _w
<u>3850</u>	<u>.244</u>	<u>208.542</u>	<u>50,884</u>	<u>316,969</u>	<u>317,213</u>	<u>607</u>

D @ 500 = 1612



