

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 Blanco Formation Mesa Verde County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 28-7 Unit Well No. 62

Unit 3 Sec. 12 Twp. 27 Rge. 7 Pay Zone: From 4894 To 5498

Casing: OD 5.5 WT. 15.5 Set At 5638 Tubing: OD 2 WT. 4.7 T. Perf. 5456

Produced Through: Casing _____ Tubing X Gas Gravity: Measured .700 Estimated _____

Date of Flow Test: From 10/23/56 To 10/31/56 * Date S.I.P. Measured 6/19/56

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 (7.65) ² x sp. const. 10 _____ = 585 psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 585 psia (h)

P_t = (h) + (f) _____ = 585 psia (i)

Wellhead casing shut-in pressure (Dwt) 1094 psig + 12 = 1106 psia (j)

Wellhead tubing shut-in pressure (Dwt) 1093 psig + 12 = 1105 psia (k)

P_c = (j) or (k) whichever well flowed through _____ = 1105 psia (l)

Flowing Temp. (Meter Run) 75 °F + 460 _____ = 535 °Abs (m)

P_d = ½ P_c = ½ (l) _____ = 553 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right)^* = \underline{1517} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1517 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1.1032 \cdot 75}{1.0764} = \underline{1633} \text{ MCF/da.}$

SUMMARY

P_c = 1105 psia
Q = 1517 Mcf/day
P_w = 626 psia
P_d = 553 psia
D = 1633 Mcf/day

Company El Paso Natural Gas
By L. B. Galloway
Title Jr. Gas Engineer
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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3519</u>	<u>.242</u>	<u>203,133</u>	<u>49,231</u>		<u>342,225</u>	<u>391,456</u>	<u>626</u>

D0500 = 1620

