

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 Company Date Test Filed _____

Operator El Paso Natural Gas Co. Lease San Juan 28-6 Well No. 25
Unit M Sec. 10 Twp. 27 Rge. 6 Pay Zone: From 4814 To 5500
Casing: OD 5½ WT. 15.5 Set At 5540 Tubing: OD 2 WT. 4.7 T. Perf. 5454
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .690
Date of Flow Test: From 3/8 To 3/16 * Date S.I.P. Measured 10/27/55
Meter Run Size 4 Orifice Size _____ 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: _____ = _____ psi (f)
(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 (7.9) ² x sp. const. 10 = 624 psia (g)
Corrected seven day avge. meter press. (pf) (g) + (e) = 624 psia (h)
P_t = (h) + (f) = 624 psia (i)
Wellhead casing shut-in pressure (Dwt) 1037 psig + 12 = 1049 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1025 psig + 12 = 1037 psia (k)
P_c = (j) or (k) whichever well flowed through = 1037 psia (l)
Flowing Temp. (Meter Run) 63 °F + 460 = 523 °Abs (m)
P_d = ½ P_c = ½ (l) = 519 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \frac{\sqrt{(d)}}{\sqrt{(d)}}} \right) = \underline{459}$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 459 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{521}$ MCF/day
 $\frac{806,008}{681,541}$ $\frac{1.1826}{1.1340}$

SUMMARY

P_c = 1037 psia
Q = 459 Mcf/day
P_w = 628 psia
P_d = 519 psia
D = 521 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>3763</u>	<u>.239</u>	<u>18.628</u>	<u>4,452</u>	<u>389,376</u>	<u>393,828</u>	<u>628</u>

D @ 500 = 521

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