

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)

Blanco Mesa Verde

Mesa Verde

Rio Arriba

Pool _____ Formation _____ County _____
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Co. Lease San Juan 28-6 Well No. 24
Unit I Sec. 10 Twp. 27N Rge. 6W Pay Zone: From 4674 To 4826
Casing: OD 7" WT. 20 & 23 Set At 5407 Tubing: OD 2 WT. 4.7 T. Perf. 5296
Produced Through: Casing _____ Tubing I Gas Gravity: Measured _____ Estimated .695
Date of Flow Test: From 1/16 To 1/23 * Date S.I.P. Measured 12/1/55
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:
(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 (7.45)² x sp. const. 10 = 555 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 555 psia (h)
P_t = (h) + (f) _____ = 555 psia (i)
Wellhead casing shut-in pressure (Dwt) 1082 psig + 12 = 1094 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1065 psig + 12 = 1077 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1077 psia (l)
Flowing Temp. (Meter Run) 53 °F + 460 _____ = 513 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 539 psia (n)

FLOW RATE CALCULATION

Q = 389 (integrated) × $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{_____ MCF/day}$

DELIVERABILITY CALCULATION

D = Q 389 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{869,408}{845,761} \times \frac{1.0243}{1.0182} = \text{_____ MCF/day}$

SUMMARY

P_c = 1077 psia
Q = 389 Mcf/day
P_w = 558 psia
P_d = 539 psia
D = 396 Mcf/day

Company El Paso Natural Gas Company
Original Signed _____
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 DIST. _(Column - i)	P _t ² + R ²	P _w
<u>3681</u>	<u>0.235</u>	<u>13,374</u>	<u>3,143</u>	<u>308,025</u>	<u>311,168</u>	<u>558</u>

D @ 500 = 405

Handwritten signature/initials

