

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 Wildcat Formation Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 27-4 Well No. 3
Unit B Sec. NE15 Twp. 27N Rge. 4W Pay Zone: From 5459 To 5993
Casing: OD 7 WT. 20 & 23 Set At 5285 Tubing: OD 2 WT. 4.7 T. Perf. 5875
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .680 Estimated _____
Date of Flow Test: From 6/22 To 6/30 * Date S.I.P. Measured 1/15/54
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 (7.40) ² x sp. const. 10 _____ = 54.8 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 54.8 psia (h)
P_t = (h) + (f) _____ = 54.8 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ 881 psig + 12 = 893 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ 883 psig + 12 = 895 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 895 psia (l)
Flowing Temp. (Meter Run) 95 °F + 460 _____ = 555 ° Abs (m)
P_d = ½ P_c = ½ (l) _____ = 448 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{11} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 11 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{600,321}{500,721}^n = \frac{1.1989}{1.1459} = \text{13} \text{ MCF/da.}$

SUMMARY

P_c = 895 psia
Q = 11 Mcf/day
P_w = 54.8 psia
P_d = 44.8 psia
D = 13 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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w

FRICTION NEGLIGIBLE

D @ 500 = 12

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