

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 Pacific Northwest Date Test Filed _____
Operator El Paso Natural Gas Lease San Juan 30-d Unit Well No. 14
Unit N Sec. 32 Twp. 30 Rge. 6 Pay Zone: From 5250 To 5730
Casing: OD 5-1/2 WT. _____ Set At 5800 Tubing: OD 2 WT. _____ T. Perf. 5653
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .450 Estimated _____
Date of Flow Test: From 10/23 To 10/31/57 Date S.I.P. Measured 2/13/57 (8 days)
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 (7.71) ² x sp. const. 1.0 = 524 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 524 psia (h)
P_t = (h) + (f) = 524 psia (i)
Wellhead casing shut-in pressure (Dwt) 1122 psig + 12 = 1134 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1107 psig + 12 = 1119 psia (k)
P_c = (j) or (k) whichever well flowed through = 1119 psia (l)
Flowing Temp. (Meter Run) 81 °F + 460 = 541 °Abs (m)
P_d = ½ P_c = ½ (l) = 560 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{2199} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 2199 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{938,561}{799,300} \cdot \frac{1.1742}{1.1281} = \underline{2481} \text{ MCF/da.}$

SUMMARY

P_c = 1119 psia Company El Paso Natural Gas
Q = 2199 Mcf/day By _____
P_w = 573 psia Title Original Signed
P_d = 560 psia Witnessed by Louis D. Galloway
D = 2481 Mcf/day 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>5674</u>	<u>.254</u>	<u>427.456</u>	<u>106,825</u>	<u>352,836</u>	<u>452,851</u>	<u>673</u>