

Initial Deliverability
Test

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 27-5 Unit Well No. 14
Unit A Sec. 11 Twp. 27 Rge. 5 Pay Zone: From 6042 To 6681
Casing: OD 5-1/2 WT. 15.5 Set At 6738 Tubing: OD 2 WT. 4.7 T. Perf. 6582
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .696 Estimated _____
Date of Flow Test: From 8/23 To 8/31/57 Date S.I.P. Measured 3/1/56 (13 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. 10 = 594 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 594 psia (h)
P_t = (h) + (f) = 594 psia (i)
Wellhead casing shut-in pressure (Dwt) 1102 psig + 12 = 1114 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1105 psig + 12 = 1117 psia (k)
P_c = (j) or (k) whichever well flowed through = 1117 psia (l)
Flowing Temp. (Meter Run) 75 °F + 460 = 535 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 559 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{V(c)}{V(d)}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{566 MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 566 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{935,208}{886,837} \right]^n \frac{1.0545}{1.0406} = \text{589 MCF/da.}$

SUMMARY

P_c = 1117 psia
Q = 566 Mcf/day
P_w = 601 psia
P_d = 559 psia
D = 589 Mcf/day

Company El Paso Natural Gas
By _____
Title Original Signed
Witnessed by Lewis D. Galloway
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>4581</u>	<u>.283</u>	<u>28,324</u>	<u>8,016</u>	<u>352,836</u>	<u>360,852</u>	<u>601</u>

D at 500 = 608

01-

X

