

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 Date Test Filed _____
Operator El Paso Natural Gas Lease San Juan 28-6 Unit Well No. 29
Unit A Sec. 27 Twp. 28 Rge. 6 Pay Zone: From 5568 To 5212
Casing: OD 7 WT. 20 Set At 5688 Tubing: OD 2 WT. 4.7 T. Perf. 5623
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .690 Estimated _____
Date of Flow Test: From 9/8 To 9/16/57 Date S.I.P. Measured 10/26/55
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 (7.30) ² x sp. const. 10 = 533 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 533 psia (h)
P_t = (h) + (f) = 533 psia (i)
Wellhead casing shut-in pressure (Dwt) 1084 psig + 12 = 1096 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1079 psig + 12 = 1091 psia (k)
P_c = (j) or (k) whichever well flowed through = 1091 psia (l)
Flowing Temp. (Meter Run) 74 °F + 460 = 534 °Abs (m)
P_d = ½ P_c = ½ (l) = 546 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right)^* = \underline{731} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 731 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{892,165}{894,571} \right]^n \frac{.9973}{.9979} = \underline{729} \text{ MCF/da.}$

SUMMARY

P_c = 1091 psia
Q = 731 Mcf/day
P_w = 544 psia
P_d = 546 psia
D = 729 Mcf/day

Company El Paso Natural Gas
By _____
Title Original Signed
Witnessed by Lewis D. Gallo
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	P _d
<u>3880</u>	<u>.246</u>	<u>47.238</u>	<u>11,621</u>	<u>284,089</u>	<u>295,710</u>	<u>544</u>

D at 500 = 744

OK

