

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 Company Date Test Filed _____
Operator El Paso Natural Gas Co. Lease San Juan 28-6 Unit Well No. 30
Unit A Sec. 28 Twp. 28 Rge. 6 Pay Zone: From 4964 To 5592
Casing: OD 7 WT. 20 & 23 Set At 5620 Tubing: OD 2 WT. 4.7 T. Perf. 5495
Produced Through: Casing _____ Tubing I Gas Gravity: Measured _____ Estimated .720
Date of Flow Test: From 1/31 To 2/8/56 * Date S.I.P. Measured 11/21/55
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 (6.10)² x sp. const. 10 = 656 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 656 psia (h)
P_t = (h) + (f) = 656 psia (i)
Wellhead casing shut-in pressure (Dwt) 1087 psig + 12 = 1099 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1081 psig + 12 = 1093 psia (k)
P_c = (j) or (k) whichever well flowed through = 1093 psia (l)
Flowing Temp. (Meter Run) 66 °F + 460 = 526 °Abs (m)
P_d = ½ P_c = ½ (l) = 547 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{730}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 730 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{832}$ MCF/da.
 $\frac{895,440}{752,538}$ $\frac{1.1899}{1.1391}$

SUMMARY

P_c = 1093 psia Company El Paso Natural Gas Company
Q = 730 Mcf/day By Original Signed
P_w = 665 psia Title Lewis D. Galloway
P_d = 547 psia Witnessed by _____
D = 832 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})	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3956</u>	<u>.250</u>	<u>47.101</u>	<u>11,775</u>	<u>430,336</u>	<u>442,111</u>	<u>665</u>

D @ 500 = 848



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