

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 Mesaverde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Company Lease San Juan 27-5 Unit Well No. 11
Unit H Sec. 27 Twp. 27 Rge. 5 Pay Zone: From 4914 To 5550
Casing: OD 5½ WT. 15.5 Set At 5633 Tubing: OD 2 WT. 4.7 T. Perf. 5507
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 685 Estimated _____
Date of Flow Test: From 11/22/56 To 11/30/56 * Date S.I.P. Measured 11/14/55 (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: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.50) ² x sp. const. 10 = 563 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 563 psia (h)
P_t = (h) + (f) = 563 psia (i)
Wellhead casing shut-in pressure (Dwt) 1033 psig + 12 = 1045 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1026 psig + 12 = 1038 psia (k)
P_c = (j) or (k) whichever well flowed through = 1038 psia (l)
Flowing Temp. (Meter Run) 55 °F + 460 = 515 ° Abs (m)
P_d = ½ P_c = ½ (l) = 519 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{448}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 448 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{471}$ MCF/da.
808,083 1.0685
756,217 1.0509

SUMMARY

P_c = 1038 psia
Q = 448 Mcf/day
P_w = 567 psia
P_d = 519 psia
D = 471 Mcf/day

Company El Paso Natural Gas Company
By L.D. Galloway
Title Sr. Gas Engineer
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 (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
3772	.240	17.741	4258	316969	321227	567

D @ 500 = 472

cc: N. Neely

