

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)

72-346-01

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 No. Well No. 88
Unit L Sec. 35 Twp. 28 Rge. 6 Pay Zone: From 4972 To 5638
Casing: OD 5-1/2 WT. 15.5 Set At 5700 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 5584
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .678 Estimated _____
Date of Flow Test: From 1/14/58 To 1/22/59 * Date S.I.P. Measured 10/13/58
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 (7.75)² x sp. const. 10 _____ = 601 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 601 psia (h)
P_t = (h) + (f) _____ = 601 psia (i)
Wellhead casing shut-in pressure (Dwt) 1064 psig + 12 = 1076 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1068 psig + 12 = 1080 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1076 psia (l)
Flowing Temp. (Meter Run) 57 °F + 460 _____ = 517 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 538 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^*$ = 1038 MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 1038 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$ $\frac{1.0900}{1.0668}$ = 1107 MCF/day.

SUMMARY

P_c = 1076 psia
Q = 1038 Mcf/day
P_w = 601 psia
P_d = 538 psia
D = 1107 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Harold L. Kendrick
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
			Friction Negligible			

D at 500 = 1133



OK