

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)

72-200

Pool Blanco Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease Schwerdtfeger Well No. 15-A
Unit B Sec. 21 Twp. 27 Rge. 8 Pay Zone: From 4712 To 4856
Casing: OD 5-1/2 WT. 15-1/2 Set At 4892 Tubing: OD 2 WT. 4.7 T. Perf. 4801
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 749 Estimated _____
Date of Flow Test: From 10/15/58 To 10/22/58 * Date S.I.P. Measured 6/18/58 (34 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 (7.25) ² x sp. const. 10 _____ = 526 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 526 psia (h)
P_t = (h) + (f) _____ = 526 psia (i)
Wellhead casing shut-in pressure (Dwt) 1079 psig + 12 = 1091 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1053 psig + 12 = 1065 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1065 psia (l)
Flowing Temp. (Meter Run) 76 °F + 460 _____ = 536 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 533 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{888}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 888 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{895}$ MCF/da.
 $\frac{850136}{841517}$ $\frac{1.0102}{1.0076}$

SUMMARY

P_c = 1065 psia Company El Paso Natural Gas
Q = 888 Mcf/day By _____
P_w = 541 psia Title _____
P_d = 533 psia Witnessed by Harold L. Kendrick
D = 895 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}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
3596	.230	62.706	16,032	276,676	292,708	541

D at 500 = 899

