

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)

72-134-01

Pool Blanco - MV 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. 87-20
Unit M Sec. 20 Twp. 28N Rge. 6W Pay Zone: From 4962 To 5622
Casing: OD 5.5" WT. 15.5 Set At 5677 Tubing: OD 1.25 WT. 2.3 T. Perf. 5582
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .701 Estimated _____
Date of Flow Test: From 8/22/58 To 8/30/58 * Date S.I.P. Measured 5/5/58 (10 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 (7.15)² x sp. const. 1000 = 511 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 511 psia (h)
P_t = (h) + (f) _____ = 511 psia (i)
Wellhead casing shut-in pressure (Dwt) 1103 psig + 12 = 1115 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1096 psig + 12 = 1108 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1108 psia (l)
Flowing Temp. (Meter Run) 70 °F + 460 _____ = 530 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 554 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{924}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 924 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{991}$ MCF/da.
920748 1.0984
838199 1.0729

SUMMARY

P_c = 1108 psia Company El Paso Natural Gas
Q = 924 Mcf/day By Original Signed
P_w = 624 psia Title Harold L. Kendrick
P_d = 554 psia Witnessed by _____
D = 991 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
3913	.248	517.517	128,344	261,121	389,465	624

D at 500 = 923

