

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)

72-278-01

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 27-5 Unit Well No. 38-16 (M)
Unit G Sec. 16 Twp. 27 Rge. 5 Pay Zone: From 5078 To 5744
Casing: OD 5-1/2 WT. 15.5 Set At 5807 Tubing: OD 2 WT. 4.7 T. Perf. 5691
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .673 Estimated _____
Date of Flow Test: From 10/30/58 To 11/7/58 * Date S.I.P. Measured 6/23/58
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 (7.25) 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) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1011 psig + 12 = 1023 psia (k)
P_c = (j) or (k) whichever well flowed through = 1023 psia (l)
Flowing Temp. (Meter Run) 96 °F + 460 = 516 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 512 psia (n)

Q = 376 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{376} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 376 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{382} \text{ MCF/da.}$
 $\frac{784385}{766816}$ $\frac{1.0229}{1.0171}$

SUMMARY

P_c = 1023 psia
Q = 376 Mcf/day
P_w = 529 psia
P_d = 512 psia
D = 382 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
3830	.243	12,496	3,037	276,676	279,713	529

D at 500 = 381

