

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 Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 28-7 Well No. 31
Unit N Sec. 20 Twp. 28 Rge. 7 Pay Zone: From 4230 To 4910
Casing: OD 7 WT. 20 Set At 4147 Tubing: OD 2 WT. 4.7 T. Perf. 4315
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .735 Estimated _____
Date of Flow Test: From 5/7/58 To 5/15/58 * Date S.I.P. Measured 4/24/57
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) 946 psig + 12 = 958 + psia (j)
Wellhead tubing shut-in pressure (Dwt) 727 psig + 12 = 739 psia (k)
P_c = (j) or (k) whichever well flowed through = 958 + psia (l)
Flowing Temp. (Meter Run) 70 °F + 460 = 530 °Abs (m)
P_d = ½ P_c = ½ (l) = 479 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{277}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 277 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{293}$ MCF/da.
 $\frac{688323}{639691}$ $\frac{1.07602}{1.0564}$

SUMMARY

P_c = 958 + psia
Q = 277 Mcf/day
P_w = 527 psia
P_d = 479 psia
D = 293 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
3172	.206	6.781	1,397	276676	278073	527

+ Perforated tubing 4/16/58

D at 500 = 282



