

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 25-5 Unit Well No. 29
Unit 18 Sec. 28 Twp. 5 Pay Zone: From 5424 To 5888
Casing: OD 5-1/2 WT. 15.5 Set At 5937 Tubing: OD 2 WT. 4.7 T. Perf. 5820
Produced Through: Casing _____ Tubing _____ Gas Gravity: Measured _____ Estimated _____
Date of Flow Test: From 7/7/58 To 7/15/58 * Date S.I.P. Measured 3/20/58
Meter Run Size _____ Orifice Size 2.000 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: _____ = _____ psi (f)
(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 _____ 10 psig + 12 = _____ psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) _____ 1072 psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ 1070 psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) _____ 77 °F + 460 _____ = _____ ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

FLOW RATE CALCULATION

$$Q = \text{(Integrated)} \times \left(\frac{\sqrt{(c)} = \text{_____}}{\sqrt{(d)} = \text{_____}} \right) = \text{1087 MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \text{ 1087 } \left[\frac{(P_c^2 - P_d^2) = \text{878043}}{(P_c^2 - P_w^2) = \text{866996}} \right]^n \frac{1.0127}{1.0095} = \text{1097 MCF/da.}$$

SUMMARY

P_c = 1082 psia
Q = 1087 Mcf/day
P_w = 951 psia
P_d = 951 psia
D = 1097 Mcf/day

El Paso Natural Gas

Company _____
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
4115	.259	104.448	27,052	276,676	303,728	951

D at 500 = 1100

