

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)

Blanco Mesa Verde Rio Arriba
Pool _____ Formation _____ County _____
Purchasing Pipeline **El Paso Natural Gas Company** Date Test Filed _____

Operator **El Paso Natural Gas** Lease **San Juan 29-7 Unit** Well No. **58**
Unit **M** Sec. **26** Twp. **29** Rge. **7** Pay Zone: From **4894** To **5491**
Casing: OD **5** WT. **11.5** Set At **5568** Tubing: OD **2** WT. **4.7** T. Perf. **5418**
Produced Through: Casing **X** Tubing **X** Gas Gravity: Measured **.705** Estimated _____
Date of Flow Test: From **7/9/57** To **7/17/57** * Date S.I.P. Measured **2/26/57**

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 (_____) $\frac{1}{2}$ x spring constant _____ = _____ psia (d)

Meter error (c) - (d) or (d) - (c) \pm _____ = _____ 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 (_____) $\frac{1}{2}$ x sp. const. _____ = _____ psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)

P_t = (h) + (f) _____ = _____ psia (i)

Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)

Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)

P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)

Flowing Temp. (Meter Run) _____ °F + 460 = _____ °Abs (m)

P_d = $\frac{1}{2}$ P_c = $\frac{1}{2}$ (l) = _____ psia (n)

FLOW RATE CALCULATION

Q = _____ x $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = 1726$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q $\left[\begin{array}{l} \left(P_c^2 - P_d^2 \right) = 921,856 \\ \left(P_c^2 - P_w^2 \right) = 881,798 \end{array} \right]^n \frac{1.0454}{1.0558} = 1784$ MCF/da.

SUMMARY

P_c = **1109** psia
Q = **1726** Mcf/day
P_w = **590** psia
P_d = **555** psia
D = **1784** Mcf/day

Company **El Paso Natural Gas**
By **J. L. Sandwell**
Title _____
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 R ²	(1-e ^{-s}) (Column 4)	P _c P _w	P _c P _w
3820	.243	263.348	63,994	284,089	548,083	590



D at 500 = 1756

