

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

Mesa Verde

Rio Arriba

Pool _____ Formation _____ County _____

Purchasing Pipeline _____ Date Test Filed _____

Operator _____ Lease _____ Well No. _____

Unit **A** Sec. **17** Twp. **29N** Rge. **7W** Pay Zone: From **5169** To **5776**

Casing: OD **7** WT. _____ Set At **5169** Tubing: OD **2** WT. **4.7** T. Perf. **5605**

Produced Through: Casing _____ Tubing **I** Gas Gravity: Measured _____ Estimated **.685**

Date of Flow Test: From **1/16** To **1/23/56** * Date S.I.P. Measured **8/11/55**

Meter Run Size **4** Orifice Size _____ Type Chart **Sq. Rt.** Type Taps **Flange**

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 (**7.35**) ² x sp. const. **10** _____ = **540** psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = **540** psia (h)

P_t = (h) + (f) _____ = **540** psia (i)

Wellhead casing shut-in pressure (Dwt) **989** psig + 12 = **1001** psia (j)

Wellhead tubing shut-in pressure (Dwt) **988** psig + 12 = **1000** psia (k)

P_c = (j) or (k) whichever well flowed through _____ = **1000** psia (l)

Flowing Temp. (Meter Run) **70** °F + 460 _____ = **530** °Abs (m)

P_d = ½ P_c = ½ (l) _____ = **500** psia (n)

Q = **1286** X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{ } }{\sqrt{(d)}} \right) = \text{1286 MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q **1286** $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \text{1395 MCF/da.}$
 $\frac{750,000}{672,729}$ $\frac{1.1149}{1.0849}$

SUMMARY

P_c = **1000** psia
Q = **1286** Mcf/day
P_w = **572** psia
P_d = **500** psia
D = **1395** Mcf/day

Company **El Paso Natural Gas Company**
By **Original Signed**
Title **Lewis D. Galloway**
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
3839	0.244	146.192	35.671	291,600	327,271	572

D @ 500 = 1326

OK



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