

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 Mesaverde County Nio Arriba

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Company Lease San Juan 28-7 Unit Well No. 63

Unit K Sec. 12 Twp. 28 27 Rge. 7 Pay Zone: From 1894 To 5570

Casing: OD 5 1/2 WT. 15.5 Set At 5664 Tubing: OD 2 WT. 4.7 T. Perf. 5539

Produced Through: Casing _____ Tubing I Gas Gravity: Measured 680 Estimated _____

Date of Flow Test: From 11/22/56 To 11/30/56 * Date S.I.P. Measured 7/12/56

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 (8.15) ² x sp. const. 10 _____ = 664 psia (g)

Corrected seven day ave. meter press. (p_f) (g) + (e) _____ = 664 psia (h)

P_t = (h) + (f) _____ = 664 psia (i)

Wellhead casing shut-in pressure (Dwt) 1054 psig + 12 = 1066 psia (j)

Wellhead tubing shut-in pressure (Dwt) 1048 psig + 12 = 1060 psia (k)

P_{ci} = (j) or (k) whichever well flowed through _____ = 1060 psia (l)

Flowing Temp. (Meter Run) 72 °F + 460 _____ = 532 ° Abs (m)

P_{di} = 1/2 P_c = 1/2 (l) _____ = 530 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{1336}{1} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{1336}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n} = \frac{1336}{\left[\frac{1060^2 - 530^2}{1060^2 - 692^2} \right]^{1.3068}} = 1633 \text{ MCF/da.}$$

SUMMARY

P_c = 1060 psia
Q = 1336 Mcf/dcy
P_w = 692 psia
P_d = 530 psia
D = 1633 Mcf/dcy

Company El Paso Natural Gas Company
By L.D. Galloway
Title Sr. Gas Engineer
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
3767	.240	157.779	37,867	440,896	478,763	692

D @ 500 = 1590

Off

