

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)

72-290

Pool Undesignated Formation Chacra County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Johnston State Well No. 3 (C)

Unit A Sec. 32 Twp. 26 Rge. 6 Pay Zone: From 3724 To 3840

Casing: OD 5-1/2 WT. 15.5 Set At 5291 Tubing: OD 2 WT. 4.7 T. Perf. 3804

Produced Through: Casing _____ Tubing X Gas Gravity: Measured 649 Estimated _____

Date of Flow Test: From 11/29/58 To 12/7/58 * Date S.I.P. Measured 8/1/58 (28)

Meter Run Size 4 Orifice Size 1.250 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 (7.05) ² x sp. const. 10 _____ = 497 psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 497 psia (h)

P_t = (h) + (f) _____ = 497 psia (i)

Wellhead casing shut-in pressure (Dwt) 827 psig + 12 = 839 psia (j)

Wellhead tubing shut-in pressure (Dwt) 905 psig + 12 = 917 psia (k)

P_c = (j) or (k) whichever well flowed through _____ = 917 psia (l)

Flowing Temp. (Meter Run) 63 °F + 460 _____ = 523 °Abs (m)

P_d = 1/2 P_c = 1/2 (l) _____ = 459 psia (n)

$$Q = \text{(integrated)} \times \left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{421} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \underline{421} \left[\frac{\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right) = \frac{630208}{591311}}{1.0657} \right]^n \frac{1.0556}{1.0556} = \underline{444} \text{ MCF/da.}$$

SUMMARY

P_c = 917 psia
Q = 421 Mcf/day
P_w = 500 psia
P_d = 459 psia
D = 444 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
<u>2469</u>	<u>.164</u>	<u>15.666</u>	<u>2,569</u>	<u>247,009</u>	<u>249,578</u>	<u>500</u>

D at 250 = 526

OK



