

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 El Paso Formation El Paso County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease Newton Well No. 8 (H)

Unit 1 Sec. 30 Twp. 11 Rge. 11 Pay Zone: From 4756 To 4770

Casing: OD 7 WT. 100 Set At 4685 Tubing: OD 2 WT. 4.7 T. Perf. 4767

Produced Through: Casing _____ Tubing I Gas Gravity: Measured .700 Estimated _____

Date of Flow Test: From July 11 To Aug. 8 * Date S.I.P. Measured June 5, 1956

Meter Run Size 1 Orifice Size _____ Type Chart Sq. Ed. 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. _____ = 520 psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 520 psia (h)

P_t = (h) + (f) _____ = 520 psia (i)

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

Wellhead tubing shut-in pressure (Dwt) 1005 psig + 12 = 1017 psia (k)

P_c = (j) or (k) whichever well flowed through _____ = 1017 psia (l)

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

P_d = ½ P_c = ½ (l) _____ = 509 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{798} \text{ MCF/da}$

(integrated)

DELIVERABILITY CALCULATION

D = Q 798 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{(1.01073)^{.75}}{1.0152} = \underline{828} \text{ MCF/da.}$

$\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{775,208}{730,681}$

SUMMARY

P_c = 1017 psia
Q = 798 Mcf/day
P_d = 509 psia
P_w = 509 psia
P = 509 Mcf/day

Company El Paso Natural Gas
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
<u>1126</u>	<u>.214</u>	<u>55,443</u>	<u>11,865</u>	<u>271,400</u>	<u>283,465</u>	<u>531</u>

2 0 500 3 025

OK





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