

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 Klamath Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Co. Lease Heaton Well No. 2
Unit X Sec. 30 Twp. 31 Rge. 11 Pay Zone: From 4684 To 4820
Casing: OD 5 1/2 WT. 13.5 Set At 4990 Tubing: OD 2 WT. 4.7 T. Perf. 4752
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .700 Estimated _____
Date of Flow Test: From 5/16 To 5/23 * Date S.I.P. Measured 2/10/56
Meter Run Size _____ 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 7.15 _____ psig + 12 = 511 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = 511 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 511 psia (h)
P_t = (h) + (f) _____ = 1039 psia (i)
Wellhead casing shut-in pressure (Dwt) 1039 psig + 12 = 1051 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 1051 psia (k)
P_c = (j) or (k) whichever well flowed through 72 _____ °F + 460 = 532 °Abs (m)
Flowing Temp. (Meter Run) _____ = 526 psia (n)
P_d = 1/2 P_c = 1/2 (l)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \underline{832}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION
D = Q 832 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{830}$ MCF/da.
 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{837,935}{830,385}$ n $\frac{.9972}{.9978}$

SUMMARY
P_c = 1051 psia
Q = 832 Mcf/day
P_w = 526 psia
P_d = 530 psia
D = _____ 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
<u>3326</u>	<u>.215</u>	<u>61.184</u>	<u>13.195</u>	<u>261,121</u>	<u>274,276</u>	<u>524</u>

D @ 500 = 831

OK



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