

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)

72-058

Pool Blanco Formation Mesa Verde County San Juan

Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Aztec Well No. 1-A

Unit M Sec. 22 Twp. 31N Rge. 11W Pay Zone: From 4810 To 4842

Casing: OD 7 7/8 WT. 26.4 Set At 4564 Tubing: OD 2 WT. 4.7 T. Perf. 4818

Produced Through: Casing _____ Tubing X Gas Gravity: Measured .690 Estimated _____

Date of Flow Test: From 4/1 To 4/9/58 * Date S.I.P. Measured 2/12/58

Meter Run Size _____ Orifice Size 1.500 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 (7.35)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) 964 psig + 12 = 976 psia (j)

Wellhead tubing shut-in pressure (Dwt) 969 psig + 12 = 981 psia (k)

P_c = (j) or (k) whichever well flowed through _____ = 981 psia (l)

Flowing Temp. (Meter Run) 60 °F + 460 = 520 ° Abs (m)

P_d = 1/2 P_c = 1/2 (l) = 491 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right)^* = \underline{1024} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1024 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{1.1082}{1.0801} = \underline{1106} \text{ MCF/da.}$

SUMMARY

P_c = 981 psia
Q = 1024 Mcf/day
P_w = 558 psia
P_d = 491 psia
D = 1106 Mcf/day

Company El Paso Natural Gas
By Harold L. Kendrick
Title _____
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>3324</u>	<u>1.215</u>	<u>92698</u>	<u>19,930</u>	<u>291,600</u>	<u>311,530</u>	<u>558</u>

D at 500 = 1057

OK

