

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 Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Sanray Well No. 2-E
Unit 1 Sec. 9 Twp. 30 Rge. 10 Pay Zone: From 3232 To 3364
Casing: OD 5-1/2 WT. 19.5 Set At 5426 Tubing: OD 2 WT. 4.7 T. Perf. 3310
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 690 Estimated _____
Date of Flow Test: From 3/23 To 3/31 * Date S.I.P. Measured 1-20-58
Meter Run Size 1 Orifice Size 1.900 Type Chart 2E Type Taps 7

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 (6.80) ² x sp. const. 1000 = 462 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 462 psia (h)
P_t = (h) + (f) _____ = 462 psia (i)
Wellhead casing shut-in pressure (Dwt) 836 psig + 12 = 848 psia (j)
Wellhead tubing shut-in pressure (Dwt) 836 psig + 12 = 848 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 848 psia (l)
Flowing Temp. (Meter Run) 67 °F + 460 _____ = 527 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 424 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{795} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 795 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{838} \text{ MCF/da.}$
565068 1.0724
326905 1.0538

SUMMARY

P_c = 868 psia
Q = 795 Mcf/day
P_w = 476 psia
P_d = 434 psia
D = 838 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 ⁻⁸)	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸) R ²	P _t ² (Column l)	P _t ² + R ²	P _w
<u>347</u>	<u>.234</u>	<u>25.876</u>	<u>13,075</u>	<u>213,444</u>	<u>226,519</u>	<u>476</u>

8 48 300 = 741

