

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)

74-710-01

Pool South Blanco Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Johnston State Well No. 4

Unit M Sec. 36 Twp. 26 Rge. 6 Pay Zone: From 2563 To 2616

Casing: OD 5-1/2 WT. 15-1/2 Set At 2668 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 2602

Produced Through: Casing _____ Tubing X Gas Gravity: Measured 659 Estimated _____

Date of Flow Test: From 11/7/58 To 11/15/58* Date S.I.P. Measured 7/23/58 (15 days)

Meter Run Size _____ Orifice Size _____ 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 (6.85)² x sp. const. 5 = 235 psia (g)

Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 235 psia (h)

P_t = (h) + (f) _____ = 235 psia (i)

Wellhead casing shut-in pressure (Dwt) 873 psig + 12 = 885 psia (j)

Wellhead tubing shut-in pressure (Dwt) 873 psig + 12 = 885 psia (k)

P_c = (j) or (k) whichever well flowed through _____ = 885 psia (l)

Flowing Temp. (Meter Run) 57 °F + 460 _____ = 517 ° Abs (m)

P_d = ½ P_c = ½ (l) _____ = 443 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{527} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 527 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{8287}{8523} = \underline{449} \text{ MCF/da.}$

SUMMARY

P_c = 885 psia
Q = 527 Mcf/day
P_w = 274 psia
P_d = 443 psia
D = 449 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
1715	0.117	168.351	19.697	55225	74922	274

D at 250 = 519



