

Revised April 20, 1955

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 Miss. Yarde County San Juan

Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Hughes Well No. 6

Unit 4 Sec. 21 Twp. 29 Rge. 8 Pay Zone: From 4794 To 5479

Casing: OD 7 WT. 23 Set At 4680 Tubing: OD 2 WT. 4.7 T. Perf. 4789

Produced Through: Casing _____ Tubing X Gas Gravity: Measured .687 Estimated _____

Date of Flow Test: From 9/21/58 To 9/29/58 * Date S.I.P. Measured May 22, 1958

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 (6.70) ² x sp. const. 10 = 449 psia (g)

Corrected seven day avge. meter press. (P_f) (g) + (e) = 449 psia (h)

P_t = (h) + (f) = 449 psia (i)

Wellhead casing shut-in pressure (Dwt) 925 psig + 12 = 937 psia (j)

Wellhead tubing shut-in pressure (Dwt) 769 psig + 12 = 772 psia (k)

P_c = (j) or (k) whichever well flowed through = 937 psia (l)

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

P_d = 1/2 P_c = 1/2 (l) = 469 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{291} \text{ MCF/day}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 291 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{286} \text{ MCF/day}$
 $\frac{658008}{674773}$ $\frac{.9751}{.9813}$

SUMMARY

P_c = 937 psia
Q = 291 Mcf/day
P_w = 451 psia
P_d = 469 psia
D = 286 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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
3290	.213	7.486	1,595		201,401	203,196	451

D at 500 = 271

+ SIPC used for P_c. Tubing perforated 9/2/58

