

Corrected Test

Form C-122-A
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)

72-161-01

Pool Elencos Formation Mesa Verde County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 27-5 Well No. 29 (10)

Unit M Sec. 13 Twp. 27 Rge. 5 Pay Zone: From 5550 To 5750

Casing: OD 7-5/8 WT. 26.5 Set At 3614 Tubing: OD 2 WT. 4.7 T. Perf. 5631

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

Date of Flow Test: From 11/7/58 To 11/15/58 * Date S.I.P. Measured 5/29/58 (20 days)

Meter Run Size _____ Orifice Size .750 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) 801 psig + 12 = _____ psia (j)

Wellhead tubing shut-in pressure (Dwt) 1105 psig + 12 = 1117 psia (k)

P_c = (j) or (k) whichever well flowed through _____ = 1117 psia (l)

Flowing Temp. (Meter Run) 78 °F + 460 _____ = 538 °Abs (m)

P_d = ½ P_c = ½ (l) _____ = 559 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{290 MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \text{ 290 } \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \text{286 MCF/da.}$$

SUMMARY

P_c = 1117 psia
Q = 290 Mcf/day
P_w = 542 psia
P_d = 559 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 (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
3885	.246	7.437	1830	291600	293430	542

D at 2 500 = 297

