

Initial Deliverability
Test

Form C-123-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)

74-500

Pool West Kutz Formation Pictured Cliffs County San Juan

Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Huerfano Well No. 81

Unit D Sec. 32 Twp. 27 Rge. 10 Pay Zone: From 1738 To 1770

Casing: OD 5-1/2 WT. 15.5 Set At 1834 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 1721

Produced Through: Casing X Tubing _____ Gas Gravity: Measured .643 Estimated _____

Date of Flow Test: From 9/21/59 To 9/29/59 * Date S.I.P. Measured 7/6/59

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 (6.96) ² x sp. const. 5 _____ = 242 psia (g)

Corrected seven day avg. meter press. (p_f) (g) + (e) _____ = 242 psia (h)

P_t = (h) + (f) _____ = 242 psia (i)

Wellhead casing shut-in pressure (Dwt) 335 psig + 12 = 347 psia (j)

Wellhead tubing shut-in pressure (Dwt) 335 psig + 12 = 347 psia (k)

P_c = (j) or (k) whichever well flowed through _____ = 347 psia (l)

Flowing Temp. (Meter Run) 69 °F + 460 _____ = 529 °Abs (m)

P_d = 1/2 P_c = 1/2 (l) _____ = 174 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \underline{99} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 99 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{1.4574}{1.3775} = \underline{136} \text{ MCF/da.}$

SUMMARY

P_c = 347 psia
Q = 99 Mcf/day
P_w = 242 psia
P_d = 174 psia
D = 136 Mcf/day

Company El Paso Natural Gas
By [Signature]
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
			Friction Negligible			

D at 250 = 85

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