

Initial Deliverability
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)

Pool Manuel Formation Manuelito County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease Schmidt Well No. 9
Unit 1 Sec. 27 Twp. 32 Rge. 9 Pay Zone: From 4047 To 5500
Casing: OD 7 WT. 20 Set At 4665 Tubing: OD 2 WT. 4.7 T. Perf. 942
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .692 Estimated _____
Date of Flow Test: From 3/6/62 To 3/14/62 * Date S.I.P. Measured 4/14/60
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: _____ = _____ psi (f)
(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 (_____) ² x sp. const. _____ = 240 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 240 psia (h)
_____ = 240 psia (i)
P_t = (h) + (f) _____ = 413 psia (j)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 413 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 356 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 356 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = 52 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 178 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \underline{240} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 240 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{240} \text{ MCF/da.}$
565,068 1.2268
460,584 1.1658

SUMMARY

P_c = 356 psia
Q = 240 Mcf/day
P_w = 240 psia
P_d = 178 psia
D = 240 Mcf/day

Company El Paso Natural Gas Company
By _____
Title H. L. Kendrick Sr., Gas Engineer
Witnessed by _____
Company _____

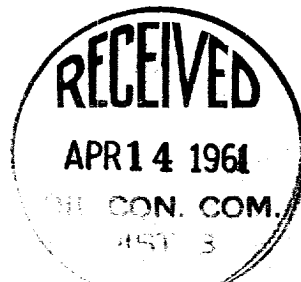
- * This is date of completion test.
- * Meter error correction factor

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
<u>7756</u>	<u>.228</u>	<u>3.478</u>	<u>1240</u>	<u>232,600</u>	<u>232,600</u>	<u>240</u>

* Use SIFC for P_w. SIFC too low.

3 at 500 = 260



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