

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 Basin Formation Dakota County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed September 7, 1961
Operator Val R. Reese & Assoc. Inc. Lease Mesa Well No. 1-25
Unit D Sec. 25 Twp. 24N Rge. 7W Pay Zone: From 6264 To 6436
Casing: OD 5-1/2 WT. 15.5 Set At 6557 Tubing: OD 1-1/4 WT. 2.7 T. Perf. 6368
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 0.651 Estimated _____
Date of Flow Test: From 6-18-61 To 6-24-61 * Date S.I.P. Measured 7-19-1960
Meter Run Size 4.067 Orifice Size 0.250 Type Chart L-10 Type Taps F1.

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 (7.15) ² x sp. const. 10.0 _____ = 511 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 511 psia (h)
P_t = (h) + (f) _____ = 511 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 2005 psig + 12 = 2017 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 2017 psia (l)
Flowing Temp. (Meter Run) 78 °F + 460 _____ = 538 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 1008 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{V(c)}{V(d)}} \right) =$

(integrated)

DELIVERABILITY CALCULATION

D = Q 30 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{3,052,225}{3,807,033} \times \frac{0.8473}{(0.8017)^n} = \underline{25} \text{ MCF/da.}$

SUMMARY

P_c = 2017 psia
Q = 30 Mcf/day
P_w = 511 psia
P_d = 1008 psia
D = 25 Mcf/day

Company Val R. Reese & Associates, Inc.
By Morris B. Jones
Title Engineer Original Signed by _____
Witnessed by _____
Company MORRIS B. JONES

- * 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})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column i)		
<u>4146</u>	<u>0.248</u>	<u>0.546</u>	<u>135</u>	<u>261,121</u>	<u>261,256</u>	<u>511.1</u>

P_c = 24.62