

Initial Deliverability
Test

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 MESA VERDE Formation M V County S J
Purchasing Pipeline EL PASO NATURAL GAS CO. Date Test Filed September 1, 1959
Operator R & G DRILLING CO. Lease Mannon Well No. 42
Unit M Sec. 22 Twp. 27 Rge. 8 Pay Zone: From 6918 To 6996
Casing: OD 4 1/2 WT. _____ Set At 6610 Tubing: OD 2 WT. _____ T. Perf. 6560
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .724 Estimated _____
Date of Flow Test: From 8 - 7 To 8 - 15 * Date S.I.P. Measured 5 - 25 - 1959
Meter Run Size 4" Orifice Size .500 Type Chart S R Type Taps FLANGE

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 (6.55) ² x sp. const. _____ = 483 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 483 psia (h)
P_t = (h) + (f) _____ = 483 psia (i)
Wellhead casing shut-in pressure (Dwt) 1012 psig + 12 = 1024 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1024 psia (l)
Flowing Temp. (Meter Run) 90 °F + 460 _____ = 550 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 512 psia (n)

Q = 103 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{V(c)}{V(d)}} \right) = \text{_____ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 103 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \cdot .9734 = \text{_____ MCF/da.}$
 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{786,432}{815,257}$

SUMMARY

P_c = 1024 psia
Q = 103 Mcf/day
P_w = 483 psia
P_d = 512 psia
D = 100 Mcf/day

Company GEOLECTRIC, INC.
By T. B. H. Hagen
Title AGENT
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

