

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 Palmer Ltr Formation PO County SI
Purchasing Pipeline El Paso Natural Gas Date Test Filed January 27, 1958
Operator Glenn E. Allman Lease Murray Well No. 1
Unit B 4 Sec. 24 Twp. 29N Rge. 12W Pay Zone: From 1766 To 1796
Casing: OD 9 1/2 WT. 1858 Set At 1858 Tubing: OD WT. T. Perf.
Produced Through: Casing 1 Tubing Gas Gravity: Measured .645 Estimated
Date of Flow Test: From 11/9/57 To 11/17/57 * Date S.I.P. Measured 1/21/57
Meter Run Size Orifice Size .500 Type Chart SR 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. 5 = 215 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = 215 psia (i)
Wellhead casing shut-in pressure (Dwt) 480 psig + 12 = 492 psia (j)
Wellhead tubing shut-in pressure (Dwt) psig + 12 = 500 psia (k)
P_c = (j) or (k) whichever well flowed through = 492 psia (l)
Flowing Temp. (Meter Run) 48 °F + 460 = 508 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 246 psia (n)

FLOW RATE CALCULATION

Q = 67 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{MCF/day}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 67 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \text{MCF/day}$
181,548 .9376 63

SUMMARY

P_c = 492 psia
Q = 67 Mcf/day
P_w = 215 psia
P_d = 246 psia
D = 63 Mcf/day

Company Gelectria, Inc.
By
Title Agent J.W. Stiles
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 |
|----|----------------------|---------------------------------|--|---|--|----------------|
| | | | | | | |

Negligible



