

Initial Deliverability
Test

Form O-198-2
Revised April 30, 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 WEST KUTZ Formation P 8 County 3 J
Purchasing Pipeline EL PASO NATURAL GAS CO. Date Test Filed JANUARY 5, 1960
Operator CALTO OIL CO. Lease NAYAGO Well No. 1
Unit H Sec. 3 Twp. 24N Rge. 11W Pay Zone: From 1794 To 1840
Casing: OD 5 1/2 WT. Set At 1794 Tubing: OD 1" WT. T. Perf. 1830
Produced Through: Casing Tubing X Gas Gravity: Measured .630 Estimated .1
Date of Flow Test: From To * Date S.I.P. Measured JUNE 6, 1959
Meter Run Size 4" Orifice Size .375 Type Chart 5A 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 (7.38) ² x sp. const. 500 = 270 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 270 psia (h)
P_t = (h) + (f) = 270 psia (i)
Wellhead casing shut-in pressure (Dwt) 442 psig + 12 = 454 psia (j)
Wellhead tubing shut-in pressure (Dwt) 442 psig + 12 = 454 psia (k)
P_c = (j) or (k) whichever well flowed through = 454 psia (l)
Flowing Temp. (Meter Run) °F + 460 = °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 227 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

D = Q 25 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \cdot 1.1302 = \text{25 MCF/da.}$

SUMMARY

P_c = 454 psia
Q = 25 Mcf/day
P_w = 270 psia
P_d = 227 psia
D = 25 Mcf/day

Company Quilley, Inc.
By B. N. Rogers
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



OK

