

AMCC Artec
1-Bill Cutler
2-Galloway
2-File

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 Blanco Formation Mesa Verde County Rio Arriba
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 11-24-58
Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 29-5 Well No. 39-23
Unit M Sec. 23 Twp. 29N Rge. 2W Pay Zone: From 390' To 6100'
Casing: OD 5 1/2" WT. 41.97' Set At 6197' Tubing: OD 2-3/8" WT. 4.74' T. Perf. 6105'
Produced Through: Casing ^ Tubing XX Gas Gravity: Measured .609 Estimated ^
Date of Flow Test: From 10-15-58 To 10-22-58 Date S.I.P. Measured 7-2-58
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:
(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 7.40 psig + 12 = 548 psia (g)
Square root chart average reading (7.40) ² x sp. const. 10.00 = 548 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) ^ = 548 psia (h)
P_t = (h) + (f) ^ = 548 psia (i)
Wellhead casing shut-in pressure (Dwt) 1121 psig + 12 = 1133 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1121 psig + 12 = 1133 psia (k)
P_c = (j) or (k) whichever well flowed through ^ = 1133 psia (l)
Flowing Temp. (Meter Run) 98 °F + 460 ^ = 518 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) ^ = 566.5 psia (n)

Q = 609 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{^} = \text{^}} \right)^* = \text{609}$ MCF/da
(Integrated) $\sqrt{(d)} = \text{^}$

DELIVERABILITY CALCULATION

D = Q 609 $\left[\frac{(P_c^2 - P_d^2) = \text{962,767}}{(P_c^2 - P_w^2) = \text{975,385}} \right]^n \frac{(0.9871)^{.75}}{0.9903} = \text{603}$ MCF/da.

SUMMARY

P_c = 1133 psia
Q = 609 Mcf/day
P_w = 555 psia
P_d = 566.5 psia
D = 603 Mcf/day

Company PACIFIC NORTHWEST PIPELINE
By Original signed by G. H. Peppin
Title District Production 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
3840	0.244	32.787	8.000	300.304	308.304	555



OK

