

3-N.M.O.C.C. Antec
1-Bill Cutler
1-L. D. Galloway
2-File

Form C-122-A
Revised April 20, 1955

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 DOMÉ STORAGE AREA)

Pool Blanco Mesa Verde Formation Mesa Verde County Rio Arriba

Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORPORATION Date Test Filed 11-26-57

Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 23-6 Well No. 27-23

Unit K Sec. 23 Twp. 29N Rge. 6W Pay Zone: From 5406' To 5926'

Casing: OD 5 1/2" WT. Set At 5978' Tubing: OD 2-3/8" WT. T. Perf. 5873'

Produced Through: Casing Tubing Gas Gravity: Measured .709 Estimated

Date of Flow Test: From 9-30-57 To 10-8-57* Date S.I.P. Measured 3-20-57

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 491 psig + 12 = 503 psia (g)

Square root chart average reading () ² x sp. const. = psia (g)

Corrected seven day ave. meter press. (p_f) (g) + (e) = psia (h)

P_t = (h) + (f) = 503 psia (i)

Wellhead casing shut-in pressure (Dwt) 1104 psig + 12 = 1116 psia (j)

Wellhead tubing shut-in pressure (Dwt) 1100 psig + 12 = 1112 psia (k)

P_c = (j) or (k) whichever well flowed through = 1116 psia (l)

Flowing Temp. (Meter Run) 48° F + 460 = 508 ° Abs (m)

P_d = 1/2 P_c = 1/2 (l) = 558 psia (n)

Q = 695 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{ }}{\sqrt{(d)}} = \text{ }} \right)^* = \text{ }$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 695 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{934,092}{981,304} \right]^n \frac{(0.9519)^{.75}}{(0.9636)} = \text{670}$ MCF/da.

SUMMARY

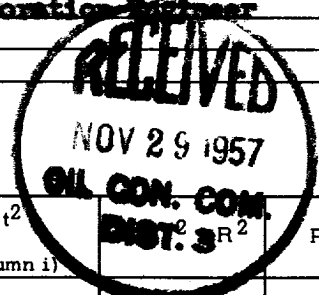
P_c = 1116 psia
Q = 695 Mcf/day
P_w = 514 psia
P_d = 558 psia
D = 670 Mcf/day

Company PACIFIC NORTHWEST PIPELINE CORP.
By Original signed by G. H. Peppin
Title District Promotion 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 _w
4164	0.261	42.693	11.143	253.009	514



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