

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 MESAVERT Formation MESAVERDE County RIO ARriba
Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORPORATION Date Test Filed JANUARY 24, 1957
Operator Pacific Northwest Pipeline Lease San Juan Unit 29-6 Well No. 3-25
Unit L Sec. 25 Twp. 29 Rge. 6 Pay Zone: From 5082 To 5710
Casing: OD 7" WT. 23 1/2 Set At 5079 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5651
Produced Through: Casing - Tubing - Gas Gravity: Measured .680 Estimated -
Date of Flow Test: From 11-17-56 To 11-25-56 Date S.I.P. Measured 7-18-56
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 - psig + 12 = - psia (g)
Square root chart average reading (-)² x sp. const. 580 = 592 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) - = 592 psia (h)
P_t = (h) + (f) - = 592 psia (i)
Wellhead casing shut-in pressure (Dwt) 1095 psig + 12 = 1097 psia (j)
Wellhead tubing shut-in pressure (Dwt) 836 psig + 12 = 848 psia (k)
P_c = (j) or (k) whichever well flowed through - = 848 psia (l)
Flowing Temp. (Meter Run) 63 °F + 460 - = 523 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) - = 424 psia (n)

FLOW RATE CALCULATION

Q = 164 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 164 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{(1.4690) \cdot 75}{1.3302} = \text{218 MCF/da.}$

SUMMARY

P_c = 848 psia
Q = 164 Mcf/day
P_w = 592 psia
P_d = 424 psia
D = 218 Mcf/day

Company Pacific Northwest Pipeline Corp.
By Donald C. Adams
Title Well Test 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

FRICTION INCLUDES F_v = F_t

3-N.M.O.C.C.-Adams
2-Wayne Smith
1-L. G. Truby
1-File

