

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 Blanco Formation Mesa Verde County San Juan
Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORPORATION Date Test Filed JAN 9 1957
Operator PACIFIC NORTHWEST Lease COX CANYON Well No. 8-8
Unit I Sec. 8 Twp. 38 Rge. 11 Pay Zone: From 5116 To 5730
Casing: OD 5 WT. 11.5 Set At 5745 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 5716
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .670 Estimated _____
Date of Flow Test: From 11-17-56 To 11-25-56 Date S.I.P. Measured 1-10-56
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. _____ = 561 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 561 psia (i)
Wellhead casing shut-in pressure (Dwt) 1042 psig + 12 = 1054 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1038 psig + 12 = 1050 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1050 psia (l)
Flowing Temp. (Meter Run) 89 °F + 460 _____ = 549 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 525 psia (n)

FLOW RATE CALCULATION

Q = 21.39 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) =$ _____ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 21.39 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n (1.1993)^{.75} \cdot 1.1462 =$ 2452 MCF/da.

SUMMARY

P_c = 1050 psia
Q = 21.39 Mcf/day
P_w = 643 psia
P_d = 525 psia
D = 2452 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
3830	.243	404,452	9822	314721	413603
					643

3-N.M.O.C.C.-Aztec
1-L. G. Truby
3-File

OK



