

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 ONE CANYON Well No. 5-21
Unit K Sec. 21 Twp. 32 Rge. 11 Pay Zone: From 5854 To 6018
Casing: OD 5" WT. 11.5 Set At 6022 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 5986
Produced Through: Casing Tubing X Gas Gravity: Measured .650 Estimated
Date of Flow Test: From 11-17-56 To 11-25-56 * Date S.I.P. Measured 1-24-56
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. = 592 psia (g)
Corrected seven day avge. meter press. (pg) (g) + (e) = psia (h)
P_t = (h) + (f) = 592 psia (i)
Wellhead casing shut-in pressure (Dwt) 980 psig + 12 = 992 psia (j)
Wellhead tubing shut-in pressure (Dwt) 986 psig + 12 = 998 psia (k)
P_c = (j) or (k) whichever well flowed through = 998 psia (l)
Flowing Temp. (Meter Run) 68 °F + 460 = 528 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 499 psia (n)

FLOW RATE CALCULATION

Q = 1251 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \text{MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1251 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n (1.2216)^{.75} = 1.1620 = \text{1454 MCF/da.}$
747003
611507

SUMMARY

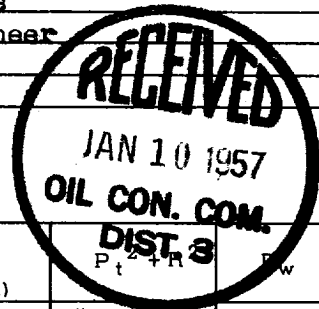
P_c = 998 psia
Q = 1251 Mcf/day
P_w = 680 psia
P_d = 499 psia
D = 1454 Mcf/day

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 DIST. 3	P _w
3891	.246	138345	34033	350464	384497	620



OK

X

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