

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 Mesa Verde Formation Mesa Verde County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed January 8, 1957

Operator Pacific Northwest Pipeline Lease San Juan Unit 30-2 Well No. 10-18
Unit H Sec. 18 Twp. 30 Rge. 5 Pay Zone: From 4883 To 9567
Casing: OD _____ WT. _____ Set At _____ Tubing: OD _____ WT. _____ T. Perf. _____
Produced Through: Casing _____ Tubing H Gas Gravity: Measured .670 Estimated _____
Date of Flow Test: From 11-11-56 To 11-19-56 * Date S.I.P. Measured 11-23-56
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. _____ = 534 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 534 psia (i)
Wellhead casing shut-in pressure (Dwt) 1114 psig + 12 = 1126 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1114 psig + 12 = 1126 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1126 psia (l)
Flowing Temp. (Meter Run) 64 °F + 460 _____ = 504 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 563 psia (n)

Q = 760 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{_____} = \text{_____}} \right) = \text{_____}$ MCF/da
(Integrated) $\sqrt{(d)}$ _____

DELIVERABILITY CALCULATION
D = Q 760 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{.9794} \left(\frac{1}{P_c} \right)^{.9806} = \text{_____}$ MCF/da.

SUMMARY
P_c 1126 psia
Q = 760 Mcf/day
P_w 242 psia
P_d 563 psia
D = 748 Mcf/day

Company Pacific Northwest Pipeline Corporation
By Donald E. Jones
Title Well Test Engineer
Witnessed by _____
Company _____

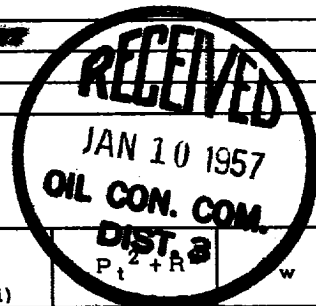
* This is date of completion test.
* Meter error correction factor

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 1)	P _t ² + R ²	w
<u>3619</u>	<u>.231</u>	<u>51865</u>	<u>11796</u>	<u>805156</u>	<u>806922</u>	<u>545</u>

3-N.M.O.C.C. - Jones
2-Phillips Petroleum - Wayne Smith
1-L. G. Kirby
1-File

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