

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 Huaco Mesa Verde Formation Mesa Verde County Mo Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed January 8, 1957
Operator Pacific Northwest Pipeline Lease San Juan Unit 30-5 Well No. 11-23
Unit L Sec. 23 Twp. 30 Rge. 5 Pay Zone: From 5612 To 5986
Casing: OD 5 1/2 WT. 15.5 Set At 6020 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5977
Produced Through: Casing _____ Tubing x Gas Gravity: Measured .650 Estimated _____
Date of Flow Test: From 11-19-56 To 11-27-56 * Date S.I.P. Measured 10-28-55
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. _____ = 577 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 577 psia (i)
Wellhead casing shut-in pressure (Dwt) 1147 psig + 12 = 1159 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1142 psig + 12 = 1154 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1154 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 500 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 577 psia (n)

Q = 542 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \dots = \dots} \right)^* = \dots$ MCF/da
(integrated) $\sqrt{(d)} = \dots$

DELIVERABILITY CALCULATION

D = Q 542 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{998787}{992399} \right]^n (1.0064)^{.75} = 1.0048 = \underline{545}$ MCF/da.

SUMMARY

P_c = 1154 psia
Q = 542 Mcf/day
P_w = 582 psia
P_d = 577 psia
D = 545 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 - P _w ²	P _w
3885	.246	25969	6388	332929	339317	582

3-N.M.O.C.C.-Artec
2-Phillips Petroleum-Wayne Smith
1-L. G. Truby
10 File

OK

