

Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 Mesa Verde Formation Mesa Verde County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed January 3, 1957
Operator Pacific Northwest Pipeline Lease San Juan Unit 29-5 Well No. 10-16
Unit L Sec. 16 Twp. 29 Rge. 5 Pay Zone: From 5416 To 6028
Casing: OD 5 1/2 WT. 15.5 Set At 6029 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5859
Produced Through: Casing _____ Tubing x Gas Gravity: Measured _____ Estimated 650
Date of Flow Test: From 11-11-56 To 11-19-56 * Date S.I.P. Measured 10-12-55
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. _____ = 549 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 549 psia (i)
Wellhead casing shut-in pressure (Dwt) 1106 psig + 12 = 1118 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1106 psig + 12 = 1118 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1118 psia (l)
Flowing Temp. (Meter Run) 84 °F + 460 _____ = 544 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 559 psia (n)

FLOW RATE CALCULATION

Q = 1766 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* =$ _____ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 1766 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n (1.0631)^{.75} = 1.0470 =$ 1849 MCF/da.

SUMMARY

P_c = 1118 psia
Q = 1766 Mcf/day
P_w = 607 psia
P_d = 559 psia
D = 1849 Mcf/day

Pacific Northwest Pipeline Corp.

Company Donald G. Adams

By _____

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
3808	.242	275,693	66,718	301,401	368,119	607

3- N.M.O.C.C.-Astec
2-Phillips Petroleum (Wayne Smith)
1-L. G. Truby
1-File

OK

