

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 MESA VERDE Formation MESA VERDE County RIO ARriba
 Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORPORATION Date Test Filed JANUARY 16, 1957
 Operator Pacific Northwest Pipeline Lease San Juan Unit 29-6 Well No. 85-32
 Unit B Sec. 22 Twp. 29 Rge. 6 Pay Zone: From 3004 To 3507
 Casing: OD 9 1/8 WT. 13.5 Set At 5460 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5476
 Produced Through: Casing _____ Tubing X Gas Gravity: Measured .672 Estimated _____
 Date of Flow Test: From 11-9-56 To 11-27-56 * Date S.I.P. Measured 8-18-55
 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. _____ = 534 psia (g)
 Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
 P_t = (h) + (f) _____ = _____ psia (i)
 Wellhead casing shut-in pressure (Dwt) 1023 psig + 12 = 1135 psia (j)
 Wellhead tubing shut-in pressure (Dwt) 1027 psig + 12 = 1139 psia (k)
 P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
 Flowing Temp. (Meter Run) 77 °F + 460 _____ = 537 °Abs (m)
 P_d = 1/2 P_c = 1/2 (l) _____ = 569 psia (n)

Q = 1678 (integrated) X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \dots = \dots} \right) = \dots$ MCF/day

D = Q 1678 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{809121}{73952} \right]^n (1.074)^{-75} = 1.070$ 1768 MCF/day

SUMMARY

P _c =	<u>1039</u>	psia
Q =	<u>1678</u>	Mcf/day
P _w =	<u>583</u>	psia
P _d =	<u>569</u>	psia
D =	<u>1768</u>	Mcf/day

Pacific Northwest Pipeline Corporation
 Company _____
 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 1)	P _t ² + R ²	P _w
<u>3579</u>	<u>.228</u>	<u>812,843</u>	<u>55003</u>		<u>340,199</u>	<u>583</u>

W.M.O.C.C. - Acton
 W. Phillips Petroleum (Wayne Smith)
 J. W. Hill

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