

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 Mesaverde County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corp. Date Test Filed May 22, 1956
Operator Pacific Northwest Pipeline Corporation Lease 29-6 Well No. 21-11
Unit A Sec. 11 Twp. 29N Rge. 6W Pay Zone: From 5293 To 5812
Casing: OD 7" WT. 26 Set At 5648 Tubing: OD 2" WT. 4.7 T. Perf. 5604
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .662
Date of Flow Test: From 5-9 To 5-17-56 * Date S.I.P. Measured 8-16-55
Meter Run Size 4" Orifice Size 1-3/4" Type Chart Normal Type Taps Flange

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: _____ = _____ psi (f)
(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 605 psig + 12 = 617 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 617 psia (h)
P_t = (h) + (f) _____ = 617 psia (i)
Wellhead casing shut-in pressure (Dwt) 1048 psig + 12 = 1060 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1034 psig + 12 = 1046 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1046 psia (l)
Flowing Temp. (Meter Run) 67 °F + 460 _____ = 527 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 523 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

D = Q 1087 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.75} \frac{1.192}{1.141} =$ 1240 MCF/da.

SUMMARY

P_c = 1046 psia
Q = 1087 Mcf/day
P_w = 637 psia
P_d = 523 psia
D = 1240 Mcf/day

Company PACIFIC NORTHWEST PIPELINE CORP.
By M. B. Richardson
Title Measurement Engineer (Richardson III)
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
3710	.236	104.45	24.650	380.689	405.339	636.7

3 - N.M.O.C.C.
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