

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 Mesaverde Formation Mesaverde County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed January 7, 1956
Operator Pacific Northwest Pipeline Lease San Juan Unit 29-6 Well No. 21-11
Unit A Sec. 11 Twp. 29 Rge. 6 Pay Zone: From 5283 To 5811
Casing: OD 5 1/2 WT. 15.5 Set At 5648 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5632
Produced Through: Casing - - Tubing x Gas Gravity: Measured .662 Estimated -
Date of Flow Test: From 11-9-56 To 11-17-56 Date S.I.P. Measured 8-16-55
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. - = 594 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) - = - psia (h)
P_t = (h) + (f) - = 594 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) 70 °F + 460 - = 530 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) - = 523 psia (n)

Q = 1245 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{ }{\text{ }}}{\text{ }} = \text{ } \right)^* = \text{ } \text{MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1245 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{820,587}{708,809} \right]^n (1.1577)^{.75} = 1.1162 = \text{ } \text{MCF/da.}$

SUMMARY

P_c = 1046 psia
Q = 1245 Mcf/day
P_w = 621 psia
P_d = 523 psia
D = 1390 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 _w
3728	.237	137,007	32471	352836	621

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

OK

