

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)

Poo. Blanco Mesa Verde Formation Mesa Verde County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed January 8, 1957
Operator Pacific Northwest Pipeline Lease San Juan Unit 29-6 Well No. 32-11
Unit L Sec. 11 Twp. 29 Rge. 6 Pay Zone: From 5238 To 5762
Casing: OD 5 1/2 WT. 15.5 Set At 5790 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5755
Produced Through: Casing - Tubing 2 Gas Gravity: Measured .720 Estimated -
Date of Flow Test: From 11-18-56 To 11-26-56 Date S.I.P. Measured 2-27-56
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. - = 633 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) - = - psia (h)
P_t = (h) + (f) - = 633 psia (i)
Wellhead casing shut-in pressure (Dwt) 842 psig + 12 = 854 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1080 psig + 12 = 1092 psia (k)
P_c = (j) or (k) whichever well flowed through - = 1092 psia (l)
Flowing Temp. (Meter Run) 85 °F + 460 - = 545 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) - = 546 psia (n)

Q = 1742 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{ }{\text{ }}}{\text{ }} = \text{ } \right) = \text{ } \text{MCF/da}$
(Integrated)

D = Q 1742 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{894348}{722033} \right]^n (1.2387)^{.75} = 1.1748 = \text{2047} \text{ MCF/da.}$

SUMMARY

P_c = 1092 psia
Q = 1742 Mcf/day
P_w = 686 psia
P_d = 546 psia
D = 2047 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 + R ²	P
4144	.860	268,239	69742	400689	470431	686

3-M.M.O.C.C.-Astec
2-Phillips Petroleum-Wayne Smith
1-L.G. Truly
1-File

OK



