

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 Alanco 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 30-5 Well No. 13-16
Unit B Sec. 16 Twp. 30 Rge. 5 Pay Zone: From 5660 To 5700
Casing: OD 5 1/2 WT. 15.5 Set At 5693 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5670
Produced Through: Casing Tubing x Gas Gravity: Measured .674 Estimated
Date of Flow Test: From 11-19-56 To 11-27-56 * Date S.I.P. Measured 1-25-56
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) 1810 psig + 12 = 1822 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1814 psig + 12 = 1826 psia (k)
P_c = (j) or (k) whichever well flowed through = 1826 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 = 500 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 613 psia (n)

Q = 636 (Integrated) X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{ } = \text{ }} \right)^* = \text{ }$ MCF/day

D = Q 636 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{1,127,307}{1,155,257} \right]^n (1.0290)^{75} = 1.012 = \text{645}$ MCF/day.

SUMMARY
P_c = 1826 psia
Q = 636 Mcf/day
P_w = 630 psia
P_d = 613 psia
D = 645 Mcf/day

Company Pacific Northwest Pipeline Corp.
By Donald C. Adams
Title Well Test Engineer
Witnessed by
Company

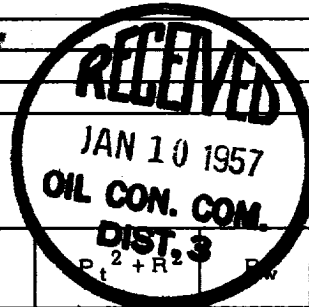
* This is date of completion test.
* Meter error correction factor

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 _w
3622	.243	35760	8690	368129	396819	630

3-M.N.O.C.C. - Adams
2-Phillips Petroleum-Wayne Smith
1-M. G. Truly
1-Phillips

OK



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