

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 Corp. Date Test Filed 1-16-57
Operator Pacific Northwest Lease San Juan Unit 29-6 Well No. 18-5
Unit N Sec. 25 Twp. 29 Rge. 6 Pay Zone: From 5460 To 5950
Casing: OD 5" WT. 11.5 Set At 5954 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5950
Produced Through: Casing Tubing ✓ Gas Gravity: Measured .650 Estimated
Date of Flow Test: From 11-17-56 To 11-25-56 Date S.I.P. Measured 10-4-55
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. = 475 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) = psia (h)
P_t = (h) + (f) = 475 psia (i)
Wellhead casing shut-in pressure (Dwt) 1013 psig + 12 = 1025 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1013 psig + 12 = 1025 psia (k)
P_c = (j) or (k) whichever well flowed through = 1025 psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 = 522 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 513 psia (n)

FLOW RATE CALCULATION

Q = 795 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{_____ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 795 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.75} = \text{_____ MCF/da.}$
787465 811310 (.9706) .75 = .9778 777

SUMMARY

P_c = 1025 psia
Q = 795 Mcf/day
P_w = 489 psia
P_d = 513 psia
D = 777 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
3868	.245	55876	13690	239315	239315	489

3- NMOCC
2- Phillips Petro (Wayne Smith)
1- File

OK

