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Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 MARCO MESAVERDE Formation MESAVERDE County SAN JUAN
Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORPORATION Date Test Filed JAN 17 1957
Operator Pacific Northwest Pipeline Lease Cox Canyon Well No. 1-16
Unit 1 Sec. 16 Twp. 32 Rge. 11 Pay Zone: From To
Casing: OD 7" WT. 23# Set At 5716 Tubing: OD 2 3/8 WT. 4.7 T. Perf. —
Produced Through: Casing — Tubing — Gas Gravity: Measured — Estimated .650
Date of Flow Test: From 12-25-56 To 1-1-57 * Date S.I.P. Measured 6-11-56
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. 520 = 532 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 532 psia (h)
P_t = (h) + (f) = 532 psia (i)
Wellhead casing shut-in pressure (Dwt) 1004 psig + 12 = 1016 psia (j)
Wellhead tubing shut-in pressure (Dwt) 85 psig + 12 = 97 psia (k)
P_c = (j) or (k) whichever well flowed through = 1016 psia (l)
Flowing Temp. (Meter Run) 98 °F + 460 = 558 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 548 psia (n)

FLOW RATE CALCULATION

Q = 459 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{_____ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 459 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{(.9812)^{.75}}{.9859} = \text{453 MCF/da.}$

SUMMARY

P_c = 1016 psia
Q = 459 Mcf/day
P_w = 97 psia
P_d = 548 psia
D = 453 Mcf/day

Pacific Northwest Pipeline Corp.
Company
By Ronald 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})	P _t ² (Column i)	P _t ² + R ²	P _w
			R ²			

FRICTION CALCULATIONS P_t = P_t



OK

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