

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 Wildcat Formation Dakota County San Juan
Purchasing Pipeline Pacific Northwest Pipeline Corp. Date Test Filed 6-28-57
Operator Northwest Production Corp. Lease T Well No. 1-7
Unit 11 Sec. 7 Twp. 26N Rge. 3E Pay Zone: From 7432 To 7623
Casing: OD 5 7/8 WT. 4 1/2 Set At 7615 Tubing: OD 2 3/8 WT. 4.7 T. Perf.
Produced Through: Casing Tubing 2 Gas Gravity: Measured .660 Estimated
Date of Flow Test: From 9-17-57 To 9-25-57 * Date S.I.P. Measured 9-25-57
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 327 psig + 12 = 339 psia (g)
Square root chart average reading () ² x sp. const. = psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 339 psia (h)
P_t = (h) + (f) = psia (i)
Wellhead casing shut-in pressure (Dwt) 1364 psig + 12 = 1376 psia (j)
Wellhead tubing shut-in pressure (Dwt) psig + 12 = 1376 psia (k)
P_c = (j) or (k) whichever well flowed through = 1376 psia (l)
Flowing Temp. (Meter Run) °F + 460 = 1200 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = psia (n)

Q = 127 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(d)}} \right) = \text{MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 127 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \text{MCF/da.}$
4976.832 0.8336 106
6343.328

SUMMARY

P_c = 1376 psia
Q = 127 Mcf/day
P_w = 940.6 psia
P_d = 1200 psia
D = 106 Mcf/day

Company Northwest Production Corp.
By Ray Phillips RAY PHILLIPS
Title Asst. Mgr., Prod. Ops.
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
4007	0.299	3.940	1.779	100.321	102.300	940.6



100-4-100
5-16-10
100-4-100