

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 Mesa Verde County San Juan
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed 7-18-57
Operator Northwest Production Corp. Lease 74 Well No. 2-7
Unit N Sec. 7 Twp. 26N Rge. 3W Pay Zone: From 4200 To 3400
Casing: OD 2-3/8 WT. 140 Set At 7615 Tubing: OD 2-3/8 WT. 4.5 T. Perf. 4200
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .640 Estimated _____
Date of Flow Test: From 3-31-57 To 6-8-57 * Date S.I.P. Measured 3-11-57
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: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____
Seven day average static meter pressure (from meter chart): 621 psig + 12 = 633 psia (g)
Normal chart average reading _____ = _____ psia (g)
Square root chart average reading () ² x sp. const. _____ = _____ psia (h)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 633 psia (i)
P_t = (h) + (f) _____
Wellhead casing shut-in pressure (Dwt) 1150 psig + 12 = 1171 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
P_c = (j) or (k) whichever well flowed through _____ °F + 460 = _____ °Abs (m)
Flowing Temp. (Meter Run) _____ = 300 psia (n)
P_d = 1/2 P_c = 1/2 (l)

FLOW RATE CALCULATION

Q = 68 X $\left(\frac{V(c)}{V(d)} \right) =$ _____ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 68 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 1.0442 = 71 MCF/day

SUMMARY

P_c = 1171 psia
Q = 68 Mcf/day
P_w = 633.3 psia
P_d = 300 psia
D = 71 Mcf/day

Company Northwest Production Corp.
By Ray Phillips RAY PHILLIPS
Title Asst. Mgr. Prod. Operations
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 1)	P _t ² + R ²	P _w
<u>3173</u>	<u>0.206</u>	<u>1.924</u>	<u>.396</u>	<u>400.600</u>	<u>401.005</u>	<u>633.3</u>



