

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 Tapacito Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed 7-25-57
Operator Northwest Production Corp. Lease "N" Well No. 6-7
Unit A Sec. 7 Twp. 26N Rge. 4W Pay Zone: From 3810 To 3832
Casing: OD 5 WT. 11.5 Set At 3924 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 3824
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .660 Estimated _____
Date of Flow Test: From 5-31-57 To 6-8-57 * Date S.I.P. Measured 5-3-57
Meter Run Size 2" 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 701 psig + 12 = 713 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 713 psia (i)
Wellhead casing shut-in pressure (Dwt) 1062 psig + 12 = 1074 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1062 psig + 12 = 1074 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1074 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ ° Abs (m)
P_d = ½ P_c = ½ (l) _____ = 537 psia (n)

FLOW RATE CALCULATION

Q = 2,187 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) =$ _____ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 2,187 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n =$ 3,099 MCF/da.
865.107 574.077 1.4170

SUMMARY

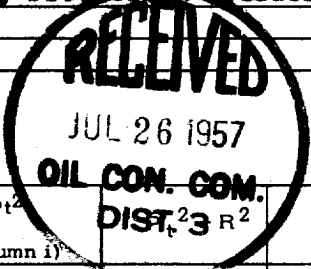
P_c = 1074 psia
Q = 2187 Mcf/day
P_w = 761 psia
P_d = 537 psia
D = 3099 Mcf/day

Company Northwest Production Corporation
By Ray Phillips RAY PHILLIPS
Title Asst Mgr, Production 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 (Column i)	P _w
<u>2,524</u>	<u>0.168</u>	<u>422.796</u>	<u>71.030</u>	<u>508.269</u>	<u>761</u>



OK

THE UNIVERSITY OF CHICAGO

LIBRARY

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960

1960