

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 Extn Formation Mesaverde County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corp. Date Test Filed 7-5-57

Operator Northwest Production Corp. Lease "C" Well No. 2-29
Unit L Sec. 29 Twp. 26N Rge. 4W Pay Zone: From 4996 To 5390
Casing: OD 5 WT. 11.5, 13 Set At 7800 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 4996
Produced Through: Casing X Tubing _____ Gas Gravity: Measured _____ Estimated .650
Date of Flow Test: From 6-8-57 To 6-17-57 * Date S.I.P. Measured 4-15-57
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 545 psig + 12 = 557 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_f = (h) + (f) _____ = 557 psia (i)
Wellhead casing shut-in pressure (Dwt) 1288 psig + 12 = 1300 psia (j)
Wellhead tubing shut-in pressure (Dwt) --- psig + 12 = 1300 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1300 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 650 psia (n)

Q = 50 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) =$ _____ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 50 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n =$ 0.9383 = 47 MCF/da.
 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right] = \frac{1,267,500}{1,379,751}$

SUMMARY

P_c = 1300 psia
Q = 50 Mcf/day
P_w = 557 psia
P_d = 650 psia
D = 47 Mcf/day

Company Northwest Production Corp.
By Ray Phillips RAY PHILLIPS
Title Asst Mgr, Prod Opr
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 _w
3247	0.210	0.003	0	310.24	557

