

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 Formation Mesa Verde County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed 12-17-57
Operator Northwest Production Corp. Lease "X" Well No. 5-28
Unit M Sec. 28 Twp. 26N Rge. 3W Pay Zone: From 5526 To 6133
Casing: OD 5 1/2 WT. 14 & 15.5 Set At 6219 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 5501
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .710 Estimated _____
Date of Flow Test: From 11-22-57 To 11-30-57 * Date S.I.P. Measured 7-5-57
Meter Run Size 2 Orifice Size 1.00 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 347 psig + 12 = 359 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = 359 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 359 psia (h)
P_t = (h) + (f) _____ = 359 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1289 psig + 12 = 1221 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1221 psia (l)
Flowing Temp. (Meter Run) 37 °F + 460 _____ = 497 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 611 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 850 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{.8697}{(.8361)} =$ 739 MCF/da.

SUMMARY

P_c = 1221 psia
Q = 850 Mcf/day
P_w = 380 psia
P_d = 611 psia
D = 739 Mcf/day

Company Northwest Production Corporation
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 i)	P _t ² + R ²	P _w
3906	0.247	63.872	15,776	128,881	144,657	380.3

7c = 9.402

OK



