

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 2-11-58
Operator Northwest Production Corp. Lease "E" Well No. 7-28
Unit B Sec. 28 Twp. 26N Rge. 3W Pay Zone: From 3898 To 3958
Casing: OD 7-5/8 WT. 26.4 Set At 4125 Tubing: OD 1 1/2 WT. 2.3 T. Perf. 3868
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .678 Estimated _____
Date of Flow Test: From 1-16-58 To 1-23-58 * Date S.I.P. Measured 7-15-57
Meter Run Size 2.068 Orifice Size 1.250 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 595 psig + 12 = 607 psia (g)
Square root chart average reading (_____)² x sp. const. _____ = 607 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 607 psia (h)
P_t = (h) + (f) _____ = 607 psia (i)
Wellhead casing shut-in pressure (Dwt) 909 psig + 12 = 921 psia (j)
Wellhead tubing shut-in pressure (Dwt) --- psig + 12 = --- psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 921 psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 _____ = 522 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 461 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 476 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{635,720}{479,759} \times \frac{1.2702}{(1.325)} = \text{605 MCF/da.}$

SUMMARY

P_c = 921 psia
Q = 476 Mcf/day
P_w = 607 psia
P_d = 461 psia
D = 605 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 i)	P _t ² + R ²	P _w
2643	0.175	0.186	33	368,449	368,482	607

F_c = 0.905

OK

