

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 South Blanco Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 4-18-58
Operator Northwest Production Corp. Lease San Juan 27-8 Well No. 3-13
Unit H Sec. 13 Twp. 27N Rge. 8W Pay Zone: From 2940 To 2980
Casing: OD 5 1/2 WT. 15.5 Set At 3038 Tubing: OD 1 1/2 WT. 2.3 T. Perf. 2966
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .683 Estimated _____
Date of Flow Test: From 2-8-58 To 2-16-58 * Date S.I.P. Measured 12-9-57
Meter Run Size 4.062 Orifice Size .750 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 _____ psig + 12 = _____ psia (g)
Square root chart average reading (8.00) ² x sp. const. 500 = 320 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 320 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ 823 psig + 12 = 835 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ 822 psig + 12 = 834 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 834 psia (l)
Flowing Temp. (Meter Run) _____ 49 °F + 460 _____ = 509 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 417 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

D = Q 287 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \text{_____ MCF/da.}$
521,647 .9055
586,316 (.8897)ⁿ

SUMMARY

P_c = 834 psia
Q = 287 Mcf/day
P_w = 331 psia
P_d = 417 psia
D = 260 Mcf/day

Company Northwest Production Corp.
By Ray Phillips RAY PHILLIPS
Title Mgr. Production Operations
Witnessed by _____
Company _____

- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ⁻⁸)	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
2026	0.137	49.928	6.840	102,400	109,240	330.5

Fe = 24.62

Ray Phillips

