

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 Flora Vista Formation Fruitland County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 6-26-57
Operator Northwest Production Corp. Lease Blanco 30-12 Well No. 1-4
Unit A Sec. 4 Twp. 30N Rge. 12W Pay Zone: From 1944 To 2198
Casing: OD 7-5/8 WT. 240 Set At 2490 Tubing: OD 2-3/8 WT. 4.7 T. Perf. _____
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .673 Estimated _____
Date of Flow Test: From 3-17-57 To 3-24-57 * Date S.I.P. Measured 4-18-57
Meter Run Size 2" 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: _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____
Seven day average static meter pressure (from meter chart):
Normal chart average reading 410 psig + 12 = 422 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) _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 684 psig + 12 = 696 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1021 psig + 12 = 1033 psia (k)
P_c = (j) or (k) whichever well flowed through 696 psia (l)
Flowing Temp. (Meter Run) 55 °F + 460 _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) 348 psia (n)

FLOW RATE CALCULATION

Q = 156 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) =$ _____ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 156 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$ 1.1960 = 180 MCF/da.

SUMMARY

P_c = 696 psia
Q = 156 Mcf/day
P_w = 422 psia
P_d = 348 psia
D = 180 Mcf/day

Company Northwest Production Corp.
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
<u>1326</u>	<u>0.092</u>	<u>.010</u>	<u>0</u>	<u>178.084</u>	<u>178.084</u>	<u>422</u>

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UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

REPORT OF THE COMMISSIONER OF PLANT INDUSTRY
FOR THE YEAR 1910

