

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 Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corp. Date Test Filed 6-21-57
Operator Northwest Production Corp. Lease 4th Well No. 1-7
Unit P D Sec. 7 Twp. 25N Rge. 4W Pay Zone: From 3390 To 3414
Casing: OD 4 1/2 WT. 9.5 Set At 3313 Tubing: OD 1 1/2 WT. 2.3 T. Perf. _____
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .630 Estimated _____
Date of Flow Test: From 5-17-57 To 5-25-57 Date S.I.P. Measured 6-14-56
Meter Run Size 3" 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_t = (h) + (f) _____ = 557 psia (i)
Wellhead casing shut-in pressure (Dwt) 935 psig + 12 = 947 psia (j)
Wellhead tubing shut-in pressure (Dwt) 935 psig + 12 = 947 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 947 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 484 psia (n)

Q = 418 (integrated) X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* =$ _____ MCF/da

DELIVERABILITY CALCULATION

D = Q 418 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{700.833}{609.162} \right]^n$ 1.1261 = 471 MCF/da.

SUMMARY

P_c = 947 psia
Q = 418 Mcf/day
P_w = 570.9 psia
P_d = 484 psia
D = 471 Mcf/day

Company Northwest Production Corp.
By Ray Phillips RAY PHILLIPS
Title Asst Mgr. Production 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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
<u>2217</u>	<u>0.149</u>	<u>103,983</u>	<u>13,780</u>		<u>310,269</u>	<u>324,049</u>	<u>570.9</u>

