

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 1-15-58
Operator Northwest Production Corp. Lease "C" Well No. 10-31
Unit B Sec. 31 Twp. 26N Rge. 4W Pay Zone: From 3206 To 3252
Casing: OD 5 WT. 11.5 Set At 3330 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 3225
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .650 Estimated _____
Date of Flow Test: From 12-16-57 To 12-23-57 * Date S.I.P. Measured 8-26-57
Meter Run Size 4.029 Orifice Size 1.500 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 709 psig + 12 = 721 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = 721 psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) _____ = 721 psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 1056 psig + 12 = 1068 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1056 psig + 12 = 1068 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1068 psia (l)
Flowing Temp. (Meter Run) 45 °F + 460 _____ = 505 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 534 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 314 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{855,468}{612,356} \right]^n \frac{1.3286}{(1.3970)^n} = \underline{417}$ MCF/day

SUMMARY

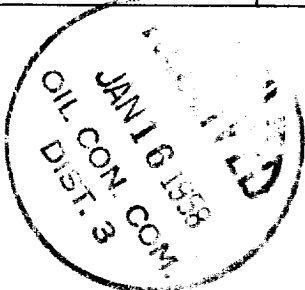
P _c =	<u>1068</u>	psia	Company	<u>Northwest Production Corp.</u>
Q =	<u>314</u>	Mcf/day	By	<u>Ray Phillips RAY PHILLIPS</u>
P _w =	<u>727</u>	psia	Title	<u>Asst Mgr, Prod Operations</u>
P _d =	<u>534</u>	psia	Witnessed by	_____
D =	<u>417</u>	Mcf/day	Company	_____

- * 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
2096	0.141	59.768	8,427	519,841	528,268	726.8

F_c = 24.62



1. What is the main purpose of the document?

2. What are the key findings of the study?

3. What are the implications of the findings for practice?

4. What are the limitations of the study?

5. What are the conclusions of the study?

6. What are the recommendations for future research?

7. What are the references of the study?

8. What are the appendices of the study?

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10. What are the conclusions of the study?

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12. What are the conclusions of the study?

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41. What are the conclusions of the study?

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