

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 Corporation Date Test Filed 2-12-58
Operator Northwest Production Corp. Lease "C" Well No. 6-6
Unit M Sec. 6 Twp. 25N Rge. 4W Pay Zone: From 3428 To 3449
Casing: OD 5 WT. 11.5 Set At 3510 Tubing: OD 1 1/2 WT. 2.3 T. Perf. 3418
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .685 Estimated _____
Date of Flow Test: From 1-23-58 To 1-31-58 * Date S.I.P. Measured 9-25-57
Meter Run Size 4.028 Orifice Size 1.000 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 535 psig + 12 = 547 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = 547 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 547 psia (h)
P_t = (h) + (f) _____ = 547 psia (i)
Wellhead casing shut-in pressure (Dwt) 999 psig + 12 = 1011 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1000 psig + 12 = 1012 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1012 psia (l)
Flowing Temp. (Meter Run) 47 °F + 460 _____ = 507 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 506 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 223 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{768,108}{720,203} \right]^n \frac{1.0562}{(1.0665)} = \text{236}$ MCF/da.

SUMMARY

P _c =	<u>1012</u>	psia	Company	<u>Northwest Production Corp.</u>
Q =	<u>223</u>	Mcf/day	By	<u>Ray Phillips</u> RAY PHILLIPS
P _w =	<u>551</u>	psia	Title	<u>Asst Mgr. Prod Operations</u>
P _d =	<u>506</u>	psia	Witnessed by	_____
D =	<u>236</u>	Mcf/day	Company	_____

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(FcQ) ²	(FcQ) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
2341	0.157	30.140	4,732	299,209	302,941	551.3

Fc = 24.62

OK

