

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 Wildcat Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 6-28-57
Operator Northwest Production Corp. Lease Blanco 30-12 Well No. 11-9
Unit 0 F Sec. 9 Twp. 30N Rge. 12W Pay Zone: From 2002 To 2022
Casing: OD 4 1/2 WT. 9.5 Set At 2103 Tubing: OD 4 1/2 WT. 2.9 T. Perf. _____
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .670 Estimated _____
Date of Flow Test: From 5-17-57 To 5-24-57 * Date S.I.P. Measured 6-4-57
Meter Run Size _____ Orifice Size .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 380 psig + 12 = 392 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 392 psia (i)
Wellhead casing shut-in pressure (Dwt) 636 psig + 12 = 648 psia (j)
Wellhead tubing shut-in pressure (Dwt) 636 psig + 12 = 648 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 648 psia (l)
Flowing Temp. (Meter Run) 55 °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 324 psia (n)

Q = 158 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{_____} = \text{_____}} \right)^* = \text{_____ MCF/da}$
(integrated) $\sqrt{(d)} = \text{_____}$

DELIVERABILITY CALCULATION

D = Q 158 $\left[\frac{(P_c^2 - P_d^2) = \text{314.928}}{(P_c^2 - P_w^2) = \text{264.826}} \right]^n \frac{1.1595}{\text{_____}} = \text{183 MCF/da.}$

SUMMARY

P_c = 648 psia Company Northwest Production Corp.
Q = 158 Mcf/day By Ray Phillips RAY PHILLIPS
P_w = 393.8 psia Title Asst Mgr. Prod Opr
P_d = 324 psia Witnessed by _____
D = 183 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
1338	0.093	15.132	1.407	153.664	155.071	393.8

