

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 FC Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corp. Date Test Filed May 13, 1958
Operator Northwest Production Corp. Lease "C" Well No. 12-7
Unit 0 Sec. 7 Twp. 25N Rge. 4W Pay Zone: From 3368 To 3398
Casing: OD 5 1/2 WT. 15.50 Set At 3694 Tubing: OD 1 1/2 WT. 2.3 T. Perf. 3535
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 0.673 Estimated _____
Date of Flow Test: From 4-21-58 To 4-29-58 * Date S.I.P. Measured 1-9-58
Meter Run Size 4.030 Orifice Size 1.500 Type Chart L-10 Type Taps F1.

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 549 psig + 12 = 561 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (pg) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 561 psia (i)
Wellhead casing shut-in pressure (Dwt) 1025 psig + 12 = 1037 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1025 psig + 12 = 1037 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1037 psia (l)
Flowing Temp. (Meter Run) 73 °F + 460 _____ = 533 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 519 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 649 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{1.1011}{(1.120)^n} = \text{_____ MCF/da.}$
715

SUMMARY

P_c = 1037 psia Company Northwest Production Corp.
Q = 649 Mcf/day By M. B. Jones M. B. JONES
P_w = 506 psia Title Asst. Mgr., Prod. Ops.
P_d = 519 psia Witnessed by _____
D = 715 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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
<u>2400</u>	<u>0.160</u>	<u>233,296</u>	<u>40,847</u>		<u>314,721</u>	<u>355,568</u>	<u>596.3</u>

P_c = 1037

OLL

