

3-100000 Antea
1-1111 Outlar
1-L. B. Galloway
1-Wayne Smith
2-File

Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 Blanco Mesa Verde Formation Mesa Verde County Rio Arriba
Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORPORATION Date Test Filed 9/9/58
Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 29-6 Well No. 92-3
Unit I Sec. 5 Twp. 29N Rge. 6W Pay Zone: From 3094' To 9740'
Casing: OD 9 1/2" WT. 14.75 Set At 5030' Tubing: OD 1-1/4" WT. 2.44 T. Perf. 9704'
Produced Through: Casing _____ Tubing xxx Gas Gravity: Measured .633 Estimated _____
Date of Flow Test: From 7-22-58 To 7-30-58 * Date S.I.P. Measured 7-26-58
Meter Run Size _____ 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: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = _____ psi (f)
Seven day average static meter pressure (from meter chart): 436 psig + 12 = 448 psia (g)
Normal chart average reading _____ = _____ psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (h)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (i)
P_t = (h) + (f) _____ = _____ psia (j)
Wellhead casing shut-in pressure (Dwt) 1084 psig + 12 = 1096 psia (j)
Wellhead tubing shut-in pressure (Dwt) 975 psig + 12 = 987 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) 68 °F + 460 _____ = 473.5 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

FLOW RATE CALCULATION

Q = 896 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{896}{1.095} = 818$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 896 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{701.317}{621.470} \times \frac{1.126}{1.095} = 983$ MCF/da.

SUMMARY

P_c = 967 psia
Q = 896 Mcf/day
P_w = 750 psia
P_d = 481.5 psia
D = 983 Mcf/day

Company PACIFIC NORTHWEST PIPELINE CORPORATION
By Original signed by G. H. Pepin
Title District Production Engineer
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 (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3611</u>	<u>0.231</u>	<u>488.808</u>	<u>112.915</u>	<u>800.704</u>	<u>811.619</u>	<u>750</u>



