

3-N.M. O.S.G. Antone
1-1- E. Tracy

2-Phillips Res
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 Elmore M. V. Formation Mesa Verde County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Date Test Filed 5-1-57

Operator Pacific Northwest Pipeline Lease San Juan 29-5 Well No. 8-35
Unit K Sec. 35 Twp. 29 Rge. 5 Pay Zone: From 6000 To 6700
Casing: OD 5 1/2 WT. Set At 6700 Tubing: OD 2 3/8 WT. T. Perf. 6700
Produced Through: Casing Tubing 1 1/2 Gas Gravity: Measured Estimated .650
Date of Flow Test: From 3-17-57 To 3-23-57 * Date S.I.P. Measured 10-25-55
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
Seven day average static meter pressure (from meter chart):
Normal chart average reading 529 psig + 12 = 541 psia (g)
Square root chart average reading ()² x sp. const. = psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 541 psia (h)
P_t = (h) + (f) = 541 psia (i)
Wellhead casing shut-in pressure (Dwt) 1046 psig + 12 = 1058 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1045 psig + 12 = 1057 psia (k)
P_c = (j) or (k) whichever well flowed through = 1057 psia (l)
Flowing Temp. (Meter Run) 5.8 °F + 460 = °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 528 psia (n)

Q = 600 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{ }}{\sqrt{(d)}} = \text{ }} \right)^* = \text{ }$ MCF/da
(Integrated)

D = Q 600 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{(1.057)^{.75}}{1.043} = \text{ }$ MCF/da.

SUMMARY

P_c = 1057 psia
Q = 600 Mcf/day
P_w = 528 psia
P_d = 528 psia
D = 600 Mcf/day

Company Pacific Northwest Pipeline Corp
By Original signed by G. H. Peppin
Title Assistant 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>4300</u>	<u>0.273</u>	<u>34.50</u>	<u>9.35</u>	<u>34.72</u>	<u>34.27</u>	<u>529</u>

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