

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 MESAS MESAVERDE Formation MESA VERDE County RIO ARriba
Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORPORATION Date Test Filed JAN 17 1957

Operator Pacific Northwest Pipeline Lease San Juan Unit 29-6 Well No. 19-8
Unit B Sec. 8 Twp. 29 Rge. 6 Pay Zone: From 5461 To 6024
Casing: OD 7 WT. 20 Set At 5462 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5608
Produced Through: Casing --- Tubing X Gas Gravity: Measured --- Estimated .650
Date of Flow Test: From 12-17-56 To 12-25-56 * Date S.I.P. Measured 9-9-55
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:
(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 --- psig + 12 = --- psia (g)
Square root chart average reading (---) ² x sp. const. 505 = 517 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) --- = 517 psia (h)
P_t = (h) + (f) --- = 517 psia (i)
Wellhead casing shut-in pressure (Dwt) 982 psig + 12 = 994 psia (j)
Wellhead tubing shut-in pressure (Dwt) 982 psig + 12 = 994 psia (k)
P_c = (j) or (k) whichever well flowed through --- = 994 psia (l)
Flowing Temp. (Meter Run) 59 °F + 460 --- = 519 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) --- = 497 psia (n)

Q = 656 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{---}}{\sqrt{(d)}} = \text{---}} \right) = \text{---}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 656 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{(1.0409)^{-75}}{1.0305} = \text{---}$ MCF/da.
 $\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{741,027}{711,883}$

SUMMARY

P_c = 994 psia
Q = 656 Mcf/day
P_w = 525 psia
P_d = 497 psia
D = 676 Mcf/day

Company Pacific Northwest Pipeline Corp.
By Donald C. Adams
Title Well Test 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>3645</u>	<u>.233</u>	<u>38,044</u>	<u>8864</u>	<u>267,229</u>	<u>276,153</u>	<u>525</u>

3-N.M.O.C.C.-Agree
1-L. G. Truly
2-Wayne Smith (Phillips)
1-File

OK



