

3-N. H. O. C. G. Artec

1-Bill Cutler

1-L. D. Galloway

2-Wayne Smith

1-File

Form C-122-A  
Revised April 20, 1955

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 Blanco Mesa Verde Formation Mesa Verde County San Juan

Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORPORATION Date Test Filed 11-7-57

Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 32-8 Well No. 19-3

Unit M Sec. 3 Twp. 31N Rge. 8W Pay Zone: From 6048' To 5584'

Casing: OD 5-1/2" WT. 14.0 Set At 6100' Tubing: OD 1-1/4" WT. 2.3 T. Perf. 6041'

Produced Through: Casing \_\_\_\_\_ Tubing x x Gas Gravity: Measured .597 Estimated \_\_\_\_\_

Date of Flow Test: From 9-23-57 To 10-1-57 \* Date S.I.P. Measured 5-24-57

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 ( \_\_\_\_\_ )<sup>2</sup> 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 457 psig + 12 = 469 psia (g)

Square root chart average reading ( \_\_\_\_\_ )<sup>2</sup> x sp. const. \_\_\_\_\_ = \_\_\_\_\_ psia (g)

Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = \_\_\_\_\_ psia (h)

P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 469 psia (i)

Wellhead casing shut-in pressure (Dwt) 1121 psig + 12 = 1133 psia (j)

Wellhead tubing shut-in pressure (Dwt) 1120 psig + 12 = 1132 psia (k)

P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 1132 psia (l)

Flowing Temp. (Meter Run) 63 °F + 460 \_\_\_\_\_ = 523 °Abs (m)

P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 566 psia (n)

FLOW RATE CALCULATION

Q = 346 (integrated) X  $\left( \frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{346}$  MCF/da

DELIVERABILITY CALCULATION

D = Q 346  $\left[ \frac{(P_c^2 - P_d^2) - 961,068}{(P_c^2 - P_w^2) - 1,044,699} \right]^n \frac{(0.9199)^{.75}}{0.9394} = \underline{325}$  MCF/da.

SUMMARY

P<sub>c</sub> = 1132 psia

Q = 346 Mcf/day

P<sub>w</sub> = 1137 psia

P<sub>d</sub> = 566 psia

D = 325 Mcf/day

Company PACIFIC NORTHWEST PIPELINE CORPORATION

By \_\_\_\_\_

Title DISTRICT PRODUCTION ENGINEER

Witnessed by \_\_\_\_\_

Company \_\_\_\_\_

\* This is date of completion test.

\* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e <sup>-S</sup> )	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-S</sup> ) R <sup>2</sup>	P <sub>1</sub> (Column 1)	CON. 2 COM. DIST. 3	P <sub>w</sub>
<u>3606</u>	<u>0.231</u>	<u>72.573</u>	<u>16.764</u>	<u>219.961</u>	<u>256.725</u>	<u>487</u>



OK