

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 MESAVERDE Formation MESAVERDE County SAN JUAN  
Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORPORATION Date Test Filed JANUARY 24, 1957

Operator Pacific Northwest Pipeline Lease Artes "A" Well No. 1-17  
Unit A Sec. 17 Twp. 32 Rge. 10 Pay Zone: From 5394 To 6118  
Casing: OD 7" WT. 20 & 23 # Set At 5320 Tubing: OD 1" WT. 1.8 T. Perf. 5474  
Produced Through: Casing X Tubing - Gas Gravity: Measured - Estimated .65  
Date of Flow Test: From 11-19-56 To 11-27-56 \* Date S.I.P. Measured 4-30-56  
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 \_\_\_\_\_ psig + 12 = \_\_\_\_\_ 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) \_\_\_\_\_ = \_\_\_\_\_ psia (i)  
Wellhead casing shut-in pressure (Dwt) 990 psig + 12 = 1002 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 990 psig + 12 = 1002 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through 42 = 502 psia (l)  
Flowing Temp. (Meter Run) \_\_\_\_\_ °F + 460 \_\_\_\_\_ = 501 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = \_\_\_\_\_ psia (n)

Q = 40.6 (integrated) ×  $\left( \frac{\sqrt{(c)}}{\sqrt{(d)}} \right) =$  \_\_\_\_\_ MCF/da

FLOW RATE CALCULATION

D = Q 40.6  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{(1.0684)^{.75}}{1.0509} =$  43 MCF/da.

DELIVERABILITY CALCULATION

SUMMARY  
P<sub>c</sub> = 1002 psia  
Q = 40.6 Mcf/day  
P<sub>w</sub> = 547 psia  
P<sub>d</sub> = 501 psia  
D = 43 Mcf/day

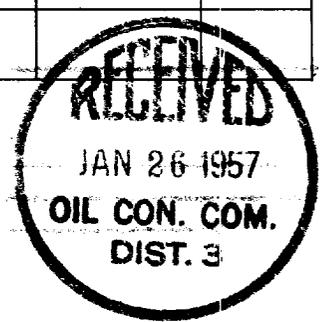
Pacific Northwest Pipeline Corp.  
Company \_\_\_\_\_  
By Donald C. Adams  
Title Well Test Engineer  
Witnessed by \_\_\_\_\_  
Company \_\_\_\_\_

\* This is date of completion test.  
\* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e <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>t</sub> <sup>2</sup> = (Column i)	P <sub>t</sub> <sup>2</sup> + R <sup>2</sup>	P <sub>w</sub>
<b>FRICTION NEGLIGIBLE P<sub>w</sub> = P<sub>t</sub></b>						

3-N.M.O.C.C.-Artes  
2-Phillips Petroleum-Wayne Smith  
1-L. G. Truby  
1-File



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