

3-ROCC Artes  
 1-Mill Outler  
 1-Wayne Smith  
 2-Galloway  
 2-File

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 Hilanco Formation Mesa Verde County Rio Arriba  
 Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 9-25-58  
 Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 30-5 Well No. 22-17  
 Unit 0 Sec. 17 Twp. 30N Rge. 5W Pay Zone: From 5862' To 5602'  
 Casing: OD 5 1/2" WT. 13.5# Set At 5749' Tubing: OD 2-1/4" WT. 2 1/4# T. Perf. 5504'  
 Produced Through: Casing --- Tubing --- Gas Gravity: Measured .980 Estimated ---  
 Date of Flow Test: From 7-7-58 To 7-17-58 \* Date S.I.P. Measured 1-21-58  
 Meter Run Size --- Orifice Size 1.000 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: \_\_\_\_\_ = \_\_\_\_\_ 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 7.15 \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (g)  
 Square root chart average reading ( 7.15 )<sup>2</sup> x sp. const. 10.00 = \_\_\_\_\_ 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) 1232 \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (j)  
 Wellhead tubing shut-in pressure (Dwt) 1200 \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (k)  
 P<sub>c</sub> = (j) or (k) whichever well flowed through 67 \_\_\_\_\_ °F + 460 = \_\_\_\_\_ °Abs (m)  
 Flowing Temp. (Meter Run) \_\_\_\_\_ = \_\_\_\_\_ °Abs (m)  
 P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = \_\_\_\_\_ psia (n)

Q = 778 (Integrated) X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} \quad \sqrt{(d)}} \right) = \text{_____ MCF/da}$

DELIVERABILITY CALCULATION

D = Q 778  $\left( \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^{.75} = \text{_____ MCF/da.}$   
1,101,708 (0.9743)  
1,130,779 0.9807

SUMMARY

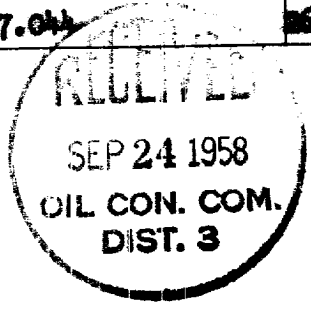
P <sub>c</sub> = <u>1212</u>	psia
Q = <u>778</u>	Mcf/day
P <sub>w</sub> = <u>582</u>	psia
P <sub>d</sub> = <u>606</u>	psia
D = <u>763</u>	Mcf/day

Company PACIFIC NORTHWEST PIPELINE  
 By Original signed by C. H. Toppin  
 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>t</sub> <sup>2</sup> (Column 1)	P <sub>t</sub> <sup>2</sup> + R <sup>2</sup>	P <sub>w</sub>
<u>3239</u>	<u>0.210</u>	<u>366.876</u>	<u>77.044</u>	<u>861.121</u>	<u>338.165</u>	<u>582</u>



7