

J. M. O. C. C. Antec  
1-Mill Outlier  
1-L. D. Galloway  
2-Villa

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 Elanco Formation Mesa Verde County Rio Arriba

Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORP. Date Test Filed 11-26-57

Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 29-4 Well No. 7-8

Unit 3 Sec. 8 Twp. 23N Rge. 4W Pay Zone: From 6366' To 5906'

Casing: OD        WT.        Set At        Tubing: OD 2-1/8" WT. 4.7 T. Perf. 5859'

Produced Through: Casing        Tubing ✓ Gas Gravity: Measured .618 Estimated       

Date of Flow Test: From 10-8-57 To 10-16-57 Date S.I.P. Measured 10-15-55

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 (        )<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 587 psig + 12 = 587 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)        = 527 psia (i)

Wellhead casing shut-in pressure (Dwt)        psig + 12 = 587 psia (j)

Wellhead tubing shut-in pressure (Dwt) 1052 psig + 12 = 1064 psia (k)

P<sub>c</sub> = (j) or (k) whichever well flowed through        = 1064 psia (l)

Flowing Temp. (Meter Run) 98 °F + 460        = 558 °Abs (m)

P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l)        = 532 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{565}{(\text{Integrated})} \times \left( \frac{\sqrt{V(c)}}{\sqrt{V(d)}} \right) = \text{MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{565}{\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.75}} = 565 \text{ MCF/da.}$$

SUMMARY

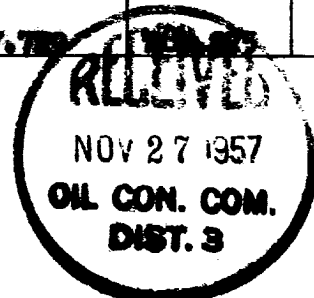
P<sub>c</sub> = 1064 psia  
Q = 565 Mcf/day  
P<sub>w</sub> = 532 psia  
P<sub>d</sub> = 532 psia  
D = 565 Mcf/day

Company PACIFIC NORTHWEST PIPELINE CORP.  
By Original signed by G. H. Popp  
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 i)	P <sub>t</sub> <sup>2</sup> + R <sup>2</sup>	P <sub>w</sub>
<u>3602</u>	<u>.232</u>	<u>28.217</u>	<u>6.546</u>	<u>877.782</u>	<u>877.782</u>	<u>533</u>



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