

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 De Blanco Formation Pictured Cliffs County Rio Arriba  
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed 6-25-57  
Operator Northwest Production Corp. Lease "g" Well No. 10-11  
Unit D Sec. 11 Twp. 24N Rge. 4W Pay Zone: From 2928 To 2990  
Casing: OD 4 1/2 WT. 9.3 Set At 3000 Tubing: OD 1 1/2 WT. 2.3 T. Perf. \_\_\_\_\_  
Produced Through: Casing x Tubing \_\_\_\_\_ Gas Gravity: Measured .707 Estimated \_\_\_\_\_  
Date of Flow Test: From 4-17-57 To 4-23-57 \* Date S.I.P. Measured 2-14-57  
Meter Run Size 2" 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 535 psig + 12 = 547 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) 830 psig + 12 = 842 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 830 psig + 12 = 842 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = \_\_\_\_\_ psia (l)  
Flowing Temp. (Meter Run) \_\_\_\_\_ °F + 460 \_\_\_\_\_ = \_\_\_\_\_ °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 421 psia (n)

Q = 20 (integrated) x  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \frac{\text{_____}}{\sqrt{(d)} = \text{_____}}} \right)^* = \text{_____ MCF/da}$

DELIVERABILITY CALCULATION

D = Q 20  $\left[ \frac{(P_c^2 - P_d^2) = \text{391.723}}{(P_c^2 - P_w^2) = \text{402.735}} \right]^n \frac{1.3483}{\text{_____}} = \text{25 MCF/da.}$

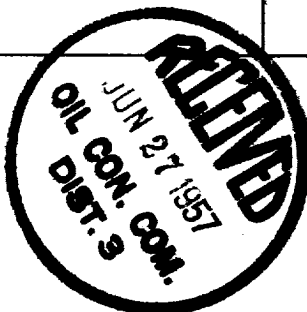
SUMMARY

P<sub>c</sub> = 842 psia Company Northwest Production Corp.  
Q = 20 Mcf/day By Ray Phillips RAY PHILLIPS  
P<sub>w</sub> = 547 psia Title Asst Mgr. Prod Operations  
P<sub>d</sub> = 421 psia Witnessed by \_\_\_\_\_  
D = 25 Mcf/day 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>



OK