

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 Wildcat Formation Graneros-Dakota County Rio Arriba  
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed 8-8-57  
Operator Northwest Production Corp. Lease "H" Well No. 8-8  
Unit M Sec. 8 Twp. 26N Rge. 4W Pay Zone: From 7828 To 7880  
Casing: OD 5 1/2 WT. 15.5, 17 Set At 7910 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 7673  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .707 Estimated \_\_\_\_\_  
Date of Flow Test: From 7-17-57 To 7-24-57 \* Date S.I.P. Measured 5-27-57  
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 545 psig + 12 = 557 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) \_\_\_\_\_ = 557 psia (i)  
Wellhead casing shut-in pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (j)  
Wellhead tubing shut-in pressure (Dwt) 2243 psig + 12 = 2255 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 2255 psia (l)  
Flowing Temp. (Meter Run) \_\_\_\_\_ °F + 460 \_\_\_\_\_ = \_\_\_\_\_ °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 1128 psia (n)

Q = 216 X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(d)}}} \right) = \text{_____ MCF/da}$   
(Integrated)

DELIVERABILITY CALCULATION

D = Q 216  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{3,812,641}{4,773,431} \right]^n$  0.84487 = 182 MCF/da.

SUMMARY

P<sub>c</sub> = 2255 psia  
Q = 216 Mcf/day  
P<sub>w</sub> = 1128 psia  
P<sub>d</sub> = 182 psia  
D = \_\_\_\_\_ Mcf/day

Company Northwest Production Corp.  
By Ray Phillips RAY PHILLIPS  
Title Asst Mgr, Prod Operations  
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>5425</u>	<u>0.326</u>	<u>4.125</u>	<u>1,345</u>	<u>310,249</u>	<u>311,594</u>	<u>558</u>



