

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 Formation Mesaverde County Rio Arriba  
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed May 13, 1958  
Operator Northwest Production Corp. Lease "N" Well No. 10-7  
Unit L Sec. 7 Twp. 26N Rge. 4W Pay Zone: From 5502 To 6126  
Casing: OD 5 1/2 WT. 14 & 15.5 Set At 6240 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 6001  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured 0.681 Estimated \_\_\_\_\_  
Date of Flow Test: From 4-21-58 To 4-29-58 \* Date S.I.P. Measured 8-2-57  
Meter Run Size 4.023 Orifice Size 1.000 Type Chart L-10 Type Taps F1.

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 727 psig + 12 = 739 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) \_\_\_\_\_ = 739 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1023 psig + 12 = 1035 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1020 psig + 12 = 1032 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 1032 psia (l)  
Flowing Temp. (Meter Run) 66 °F + 460 \_\_\_\_\_ = 526 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 516 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 619  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1.3998}{(1.566)^N} = \text{866 MCF/da.}$

SUMMARY

P<sub>c</sub> = 1032 psia Company Northwest Production Corp.  
Q = 619 Mcf/day By M. B. Jones  
P<sub>w</sub> = 745 psia Title Asst Mgr. Prod Opr  
P<sub>d</sub> = 516 psia Witnessed by \_\_\_\_\_  
D = 866 Mcf/day Company \_\_\_\_\_

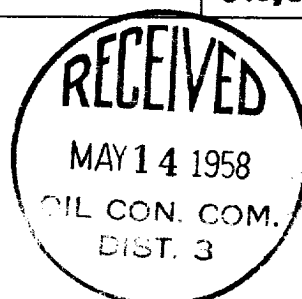
- \* This is date of completion test.
- \* Meter error correction factor

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>
4087	0.257	33.872	8,705	546,121	554,826	744.9

F<sub>c</sub> = 9.402

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