

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 South Blanco Formation Pictured Cliffs County Rio Arriba  
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed 12-16-57  
Operator Northwest Production Corp. Lease "G" Well No. 8-30  
Unit 6 Sec. 30 Twp. 26N Rge. 4W Pay Zone: From 3260 To 3295  
Casing: OD 5 WT. 11.5 Set At 3413 Tubing: OD 1 1/2 WT. 2.3 T. Perf. 3281  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .650 Estimated \_\_\_\_\_  
Date of Flow Test: From 11-16-57 To 11-23-57 \* Date S.I.P. Measured 8-15-57  
Meter Run Size 4 Orifice Size 1.25 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 676 psig + 12 = 688 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) \_\_\_\_\_ = 688 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 688 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1035 psig + 12 = 1047 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1039 psig + 12 = 1051 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 1051 psia (l)  
Flowing Temp. (Meter Run) \_\_\_\_\_ °F + 460 \_\_\_\_\_ = \_\_\_\_\_ °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 526 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 416  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{859,745}{658,592} \right]^n \frac{1.2541}{(1.3054)} = \text{522 MCF/da.}$

SUMMARY

P<sub>c</sub> = 1051 psia Company Northwest Production Corporation  
Q = 416 Mcf/day By Ray Phillips RAY PHILLIPS  
P<sub>w</sub> = 688 psia Title Asst. Mgr., Prod. Opr.  
P<sub>d</sub> = 526 psia Witnessed by \_\_\_\_\_  
D = 522 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> )<br>R <sup>2</sup> | P <sub>t</sub> <sup>2</sup><br>(Column i) | P <sub>t</sub> <sup>2</sup> + R <sup>2</sup> | P <sub>w</sub> |
|------|----------------------|---------------------------------|------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
| 2133 | 0.144                | 104.899                         | 15,105                                                                 | 473,344                                   | 488,449                                      | 698.9          |

F<sub>c</sub> = 24.62

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