

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 Mesa Verde Formation Mesa Verde County Rio Arriba  
Purchasing Pipeline Pacific Northwest Pipeline Corp. Date Test Filed May 31, 1957  
Operator Northwest Production Corp. Lease "B" Well No. 2-33  
Unit H Sec. 33 Twp. 26N Rge. 3W Pay Zone: From 5740 To 6336  
Casing: OD 5 WT. 11.5 Set At 6438 Tubing: OD 2-3/8 WT. 4.7 T. Perf. \_\_\_\_\_  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured \_\_\_\_\_ Estimated .670  
Date of Flow Test: From 4-17-57 To 4-25-57 \* Date S.I.P. Measured 3-6-57  
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 335 psig + 12 = 347 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) \_\_\_\_\_ = 347 psia (i)  
Wellhead casing shut-in pressure (Dwt) 961 psig + 12 = 973 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1203 psig + 12 = 1215 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 1215 psia (l)  
Flowing Temp. (Meter Run) 49 °F + 460 \_\_\_\_\_ = 509 °Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l) \_\_\_\_\_ = 608 psia (n)

FLOW RATE CALCULATION

Q = 485 X  $\left( \frac{\sqrt{(c)} - \sqrt{(d)}}{\sqrt{(c)}} \right) =$  \_\_\_\_\_ MCF/da  
(Integrated)

DELIVERABILITY CALCULATION

D = Q 485  $\left[ \frac{(P_c^2 - P_d^2) - 1106.961}{(P_c^2 - P_w^2) - 1171.631} \right]^n$  .9300 = 465 MCF/da.

SUMMARY

P<sub>c</sub> = 1215 psia  
Q = 485 Mcf/day  
P<sub>w</sub> = 551.9 psia  
P<sub>d</sub> = 608 psia  
D = 465 Mcf/day

Company Northwest Production Corporation  
By Ray Phillips RAY PHILLIPS  
Title Asst Mgr., Production 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>4186</u>	<u>0.262</u>	<u>20.7933</u>	<u>5.448</u>	<u>299.209</u>	<u>304.657</u>	<u>551.9</u>



THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY

1954-1955  
FACULTY OF SCIENCE

1. The following is a list of the names of the members of the  
Faculty of Science, who are also members of the

Department of Chemistry, for the year 1954-1955.

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