

**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 Mesa Verde County San Juan  
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed January 7, 1957

Operator Pacific Northwest Pipeline Lease Blanco 31-8 Well No. 1-35  
Unit L Sec. 35 Twp. 31 Rge. 8 Pay Zone: From 5320 To 5542  
Casing: OD 5 WT. 12.5 Set At 5547 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5524  
Produced Through: Casing \_\_\_\_\_ Tubing \_\_\_\_\_ Gas Gravity: Measured .650 Estimated \_\_\_\_\_  
Date of Flow Test: From 11-19-56 To 11-27-56 \* Date S.I.P. Measured 1-10-56  
Meter Run Size \_\_\_\_\_ Orifice Size \_\_\_\_\_ Type Chart \_\_\_\_\_ Type Taps \_\_\_\_\_

OBSERVED DATA

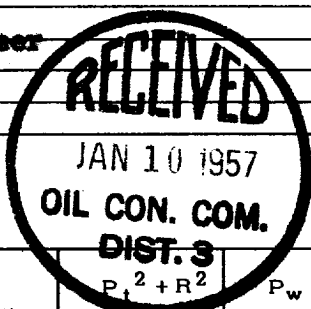
Flowing casing pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (a)  
Flowing tubing pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (b)  
Flowing meter pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (c)  
Flowing meter pressure (meter reading when Dwt. measurement taken):  
Normal 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 \_\_\_\_\_ psig + 12 = \_\_\_\_\_ 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) 1003 psig + 12 = 1015 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1001 psig + 12 = 1013 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 1013 psia (l)  
Flowing Temp. (Meter Run) 76 °F + 460 \_\_\_\_\_ = 536 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 507 psia (n)

Q = 2341 (integrated) X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(d)}}} \right)^* = \text{_____ MCF/da}$

DELIVERABILITY CALCULATION  
D = Q 2341  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n (1.5187)^{.75} = 1.3680 = \text{3202 MCF/da.}$

SUMMARY  
P<sub>c</sub> = 1013 psia  
Q = 2341 Mcf/day  
P<sub>w</sub> = 721 psia  
P<sub>d</sub> = 507 psia  
D = 3202 Mcf/day

Pacific Northwest Pipeline Corp.  
Company Donald G. Adams  
By Well Test Engineer  
Title \_\_\_\_\_  
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>
3591	.230	484440	111421	408321	519742	721

3-N.M.O.C.C. - Astec  
2-Phillips Petroleum - Wayne Smith  
1-G. G. Truby  
1-File

*OK*

THE UNIVERSITY OF CHICAGO

DEPARTMENT OF CHEMISTRY

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