

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 Mesa Verde Formation Mesa Verde County Rio Arriba  
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed January 8, 1957  
Operator Pacific Northwest Pipeline Lease San Juan Unit 30-3 Well No. 4-35  
Unit B Sec. 35 Twp. 30 Rge. 5 Pay Zone: From 9797 To 6370  
Casing: OD 7" WT. 20 lbs Set At 7590 Tubing: OD 1" WT. 1.7 & 1.8 T. Perf. 6243  
Produced Through: Casing    Tubing X Gas Gravity: Measured .603 Estimated     
Date of Flow Test: From 11-22-56 To 11-27-56 \* Date S.I.P. Measured 12-21-53  
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:    =    psi (f)  
(b) - (c) Flow through tubing: (a) - (c) Flow through casing  
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. (pf) (g) + (e)    =    psia (h)  
P<sub>t</sub> = (h) + (f)    =    psia (i)  
Wellhead casing shut-in pressure (Dwt) 999 psig + 12 = 973 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 964 psig + 12 = 976 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through    =    psia (l)  
Flowing Temp. (Meter Run) 67 °F + 460    = 507 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l)    = 488 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{75.8}{(\text{integrated})} \times \left( \frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{MCF/da}$$

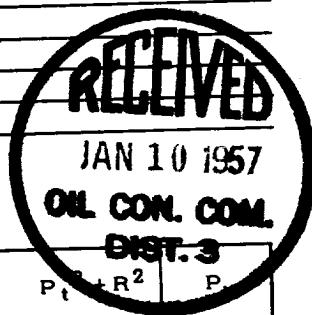
DELIVERABILITY CALCULATION

$$D = Q \frac{75.8}{\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n} = 81.4 \text{ MCF/da}$$

SUMMARY

P<sub>c</sub> = 976 psia  
Q = 75.8 Mcf/day  
P<sub>w</sub> = 76 psia  
P<sub>d</sub> = 488 psia  
D = 81.4 Mcf/day

Pacific Northwest Pipeline Corporation  
Company Daniel C. 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>-8</sup> )	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</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
3765	.239	14592	3487	299209	302,696	550

3-H.M.O.C.C.-Antec  
2-Phillips Petroleum-Wayne Smith  
1-L.G. Truby  
1-File

OK

