

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 January 9, 1957
Operator Pacific Northwest Pipeline Lease Rosa Well No. 13-31
Unit G Sec. 31 Twp. 31 Rge. 5 Pay Zone: From 5510 To 5968
Casing: OD 5 1/2 WT. 15.5 Set At 5977 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5959
Produced Through: Casing 5 Tubing X Gas Gravity: Measured _____ Estimated .650
Date of Flow Test: From 11-17-56 To 11-25-56 * Date S.I.P. Measured 5-17-56
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 (_____) ² 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 (_____) ² x sp. const. _____ = 475 psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 475 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ 1201 psig + 12 = 1213 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ 1201 psig + 12 = 1213 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1213 psia (l)
Flowing Temp. (Meter Run) _____ 47 °F + 460 _____ = 507 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 607 psia (n)

FLOW RATE CALCULATION

Q = 424 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{_____} = \text{_____} \text{ MCF/da}$
(integrated)

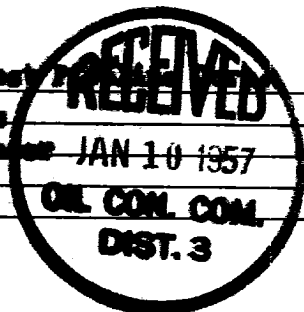
DELIVERABILITY CALCULATION

D = Q 424 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.75} = \frac{1,102,920}{1,241,851}^{.75} = \frac{.8881^{.75} \times 9142}{1} = \text{388} \text{ MCF/da.}$

SUMMARY

P_c = 1213 psia
Q = 424 Mcf/day
P_w = 480 479 psia
P_d = 607 psia
D = 388 Mcf/day

Company Pacific Northwest
By Donald G. Adams
Title Well Test Engineer
Witnessed by _____
Company _____



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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3873</u>	<u>.245</u>	<u>15888</u>	<u>3893</u>	<u>225625</u>	<u>229518</u>	<u>479</u> <u>480</u>

3-H.M.O.C.C.-Astos
1-L. G. Truby
3-File

OK

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