

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 SAN JUAN
Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORPORATION Date Test Filed JAN 17 1957
Operator Pacific Northwest Pipeline Lease San Juan Unit 32-7 Well No. 10-32
Unit N Sec. 32 Twp. 32N Rge. 7W Pay Zone: From 5406 To 5894
Casing: OD 5 1/2 WT. 15.5 Set At 5922 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5879
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .650
Date of Flow Test: From 12-26-56 To 1-1-57 * Date S.I.P. Measured 10-30-55
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. 449 = 461 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 461 psia (i)
Wellhead casing shut-in pressure (Dwt) 1125 psig + 12 = 1137 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1045 psig + 12 = 1057 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1057 psia (l)
Flowing Temp. (Meter Run) 96 °F + 460 _____ = 516 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 529 psia (n)

FLOW RATE CALCULATION

Q = 176 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) =$ _____ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 176 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{(.9263) \cdot 75}{.9442} =$ 166 MCF/day

SUMMARY

P_c = 1057 psia
Q = 176 Mcf/day
P_w = 462 psia
P_d = 529 psia
D = 166 Mcf/day

Company Pacific Northwest Pipeline Corp.
By Donald W. Adams
Title Well Test Engineer
Witnessed by _____
Company _____

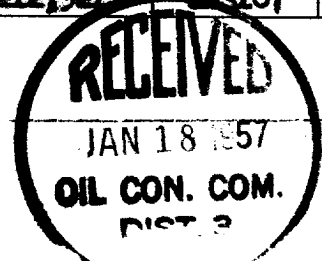
- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3821</u>	<u>.243</u>	<u>2739</u>	<u>666</u>		<u>212,521</u>	<u>213187</u>	<u>462</u>

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

Oil



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