

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 SOUTHERN LAS PINOS FRUITLAND Formation FRUITLAND County SAN JUAN
Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORPORATION Date Test Filed JANUARY 16, 1957
Operator Pacific Northwest Pipeline Lease San Juan Unit 32-3 Well No. 6-17
Unit A Sec. 17 Twp. 31 Rge. 7 Pay Zone: From 3075 To 3040
Casing: OD 7 WT. 23 Set At 3074 Tubing: OD 2 3/8 WT. 4.77 T. Perf. 3002
Produced Through: Casing - Tubing - Gas Gravity: Measured - Estimated .670
Date of Flow Test: From 12-18-56 To 12-23-56 * Date S.I.P. Measured 4-27-56
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. 435 = 448 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 448 psia (i)
Wellhead casing shut-in pressure (Dwt) 1492 psig + 12 = 1504 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1492 psig + 12 = 1504 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1504 psia (l)
Flowing Temp. (Meter Run) 35 °F + 460 _____ = 495 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 752 psia (n)

Q = 181 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(d)}} \right) = \text{_____ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 181 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{1,696,512}{2,850,904} \times \frac{(.8732)^{.85}}{.8475} = \text{_____ MCF/da.}$

SUMMARY

P_c = 1504 psia
Q = 181 Mcf/day
P_w = 448 psia
P_d = 752 psia
D = 153 Mcf/day

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

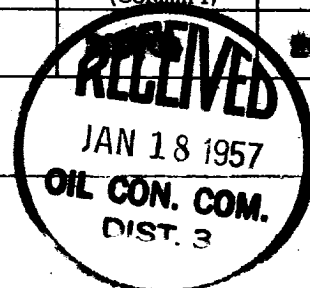
- * This is date of completion test.
- * Meter error correction factor

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>3074</u>	<u>.141</u>	<u>2897</u>	<u>408</u>		<u>2897,112</u>	<u>448</u>

3-M.O.C.C.-Adams
3-Phillips Petroleum Co. (Wayne Smith)
3-File

OLL



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UNITED STATES DEPARTMENT OF THE ARMY
HEADQUARTERS, ARMY
WASHINGTON, D. C.

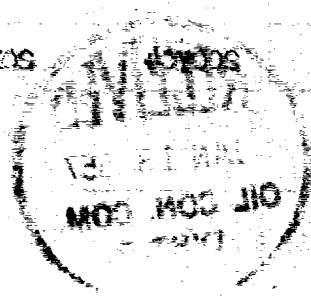
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