

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 Mesaverde Formation Mesaverde County San Juan
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed JAN 9 1957

Operator PACIFIC NORTHWEST Lease COX CANYON Well No. 7-17
Unit G Sec. 17 Twp. 32 Rge. 11 Pay Zone: From 5236 To 5810
Casing: OD 5" WT. 11.5 Set At 5879 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 5780
Produced Through: Casing X Tubing X Gas Gravity: Measured .685 Estimated
Date of Flow Test: From 11-17-56 To 11-25-56 * Date S.I.P. Measured 4-4-56
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. = psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = psia (i)
Wellhead casing shut-in pressure (Dwt) 1041 psig + 12 = 1053 psia (j)
Wellhead tubing shut-in pressure (Dwt) 972 psig + 12 = 984 psia (k)
P_c = (j) or (k) whichever well flowed through 79 = 539 psia (l)
Flowing Temp. (Meter Run) 79 °F + 460 = 492 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 492 psia (n)

FLOW RATE CALCULATION

Q = 1475 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \text{MCF/da}$
(integrated)

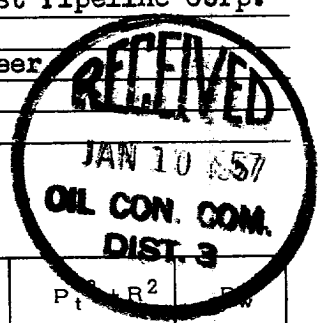
DELIVERABILITY CALCULATION

D = Q 1475 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n (1.1994)^{-75} = 1.1462 = 1691 \text{ MCF/da.}$

SUMMARY

P_c = 984 psia
Q = 1475 Mcf/day
P_w = 602 psia
P_d = 492 psia
D = 1691 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
3959	.250	192,321	48,080	314721	362801	602

3-N.M.O.C.C.-Aztec
1-L.G. Truby
3-File

OK

X

1940-1941

1942-1943

1944-1945

1946-1947

1948-1949

1950-1951

1952-1953

1954-1955

1956-1957

1958-1959

1960-1961

1962-1963

1964-1965

1966-1967

1968-1969

1970-1971

1972-1973

1974-1975

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2006-2007

2008-2009

2010-2011

2012-2013

2014-2015

2016-2017

2018-2019

2020-2021

2022-2023

2024-2025

2026-2027

2028-2029

2030-2031

2032-2033

2034-2035

2036-2037

2038-2039

2040-2041

2042-2043