

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 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. 15-34
Unit M Sec. 34 Twp. 32N Rge. 7W Pay Zone: From 5742 To 6138
Casing: OD 5 1/2 WT. 15.5 Set At 6147 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 6111
Produced Through: Casing - - - Tubing - x Gas Gravity: Measured - - - Estimated .65
Date of Flow Test: From 12-10-56 To 12-18-56 * Date S.I.P. Measured 8-3-56
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. 449 = 461 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) - - - = 461 psia (h)
P_t = (h) + (f) - - - = 461 psia (i)
Wellhead casing shut-in pressure (Dwt) 1162 psig + 12 = 1174 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1164 psig + 12 = 1176 psia (k)
P_c = (j) or (k) whichever well flowed through - - - = 1176 psia (l)
Flowing Temp. (Meter Run) 28 °F + 460 - - - = 488 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) - - - = 588 psia (n)

$$Q = \frac{129}{(\text{integrated})} \times \left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \text{MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{129}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]} = \frac{1,037,232}{1,170,455} \cdot \frac{(.8862)^{.75}}{.9133} = 118 \text{ MCF/da.}$$

SUMMARY

P_c = 1176 psia
Q = 129 Mcf/day
P_w = 461 psia
P_d = 588 psia
D = 118 Mcf/day

Company Pacific Northwest Pipeline Corp.
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

FRICTION NEGLIGIBLE P_v = P_t

3-N.M.O.C.C.-Artee
1-L. G. Tally
2-Wayne Smith
1-File



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

1976-1977

1978-1979

1980-1981

1982-1983

1984-1985

1986-1987

1988-1989

1990-1991

1992-1993

1994-1995

1996-1997

1998-1999

2000-2001

2002-2003

2004-2005

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
2044-2045
2046-2047
2048-2049

