

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 RIO ARriba
Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORPORATION Date Test Filed JAN 17 1957

Operator Pacific Northwest Pipeline Lease San Juan Unit 30-5 Well No. 16-26
Unit N Sec. 26 Twp. 30N Rge. 5W Pay Zone: From 5456 To 5836
Casing: OD 5 WT. 11.5 Set At 5899 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5800
Produced Through: Casing - Tubing X Gas Gravity: Measured .674 Estimated -
Date of Flow Test: From 12-11-56 To 12-19-56 Date S.I.P. Measured 7-19-56
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. 549 = 561 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) - = 561 psia (h)
P_t = (h) + (f) - = 561 psia (i)
Wellhead casing shut-in pressure (Dwt) 997 psig + 12 = 1009 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1006 psig + 12 = 1018 psia (k)
P_c = (j) or (k) whichever well flowed through - = 1018 psia (l)
Flowing Temp. (Meter Run) 53 °F + 460 = 413 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) - = 509 psia (n)

Q = 288 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 288 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{(1.0798) \cdot 75}{1.0594} = \text{305 MCF/da.}$

SUMMARY
P_c = 1018 psia
Q = 288 Mcf/day
P_w = 563 psia
P_d = 509 psia
D = 305 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
3909	.247	7333	1811	314,721	316,532	563

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

OK

