

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 Formation Mesa Verde County San Juan
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed January 7, 1957
Operator Pacific Northwest Pipeline Lease San Juan Unit 32-7 Well No. 5-8
Unit H Sec. 8 Twp. 31 Rge. 7 Pay Zone: From 5365 To 5950
Casing: OD 5 1/2" Liner WT. 20 & 23# Set At 5950 Tubing: OD 1" WT. 1.8 T. Perf. 5899
Produced Through: Casing - Tubing 2 Gas Gravity: Measured - Estimated .650
Date of Flow Test: From 12-2-56 To 12-10-56 Date S.I.P. Measured 11-5-53
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. - = 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) 1018 psig + 12 = 1030 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1018 psig + 12 = 1030 psia (k)
P_c = (j) or (k) whichever well flowed through - = 1030 psia (l)
Flowing Temp. (Meter Run) 32 °F + 460 - = 492 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) - = 515 psia (n)

FLOW RATE CALCULATION

Q = 87.9 X $\left(\frac{\sqrt{V(c)}}{\sqrt{V(d)}} \right)^* =$ - MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 87.9 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{795675}{843610}^{.75} = .9572 =$ 84.1 MCF/day.

SUMMARY:

P_c = 1030 psia
Q = 87.9 Mcf/day
P_w = 466 psia
P_d = 515 psia
D = 84.1 Mcf/day

Company Pacific Northwest Pipeline
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)	DIST. 3 2 + R ²	P _d
3834	.243	19625	4769	212521	217290	466

3-N.M.O.C.C. - Argue
2-Phillips Petroleum - Wayne Smith
1-L.G. Treadwell
1-File



OK

