

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 Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed January 9, 1957

Operator Pacific Northwest Pipeline Lease Reese Well No. 15-29
Unit H Sec. 29 Twp. 31 Rge. 5 Pay Zone: From 5468 To 9856
Casing: OD 5 WT. 11.5 Set At 5813 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5811
Produced Through: Casing Tubing H Gas Gravity: Measured Estimated .670
Date of Flow Test: From 11-17-56 To 11-23-56 * Date S.I.P. Measured 8-27-56
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. = 489 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = 489 psia (i)
Wellhead casing shut-in pressure (Dwt) 1189 psig + 12 = 1121 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1131 psig + 12 = 1123 psia (k)
P_c = (j) or (k) whichever well flowed through = 1123 psia (l)
Flowing Temp. (Meter Run) 71 °F + 460 = 531 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 562 psia (n)

FLOW RATE CALCULATION

Q = 414 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 414 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{(9282)^{.75}}{1,018,372} = \text{392 MCF/da.}$

SUMMARY

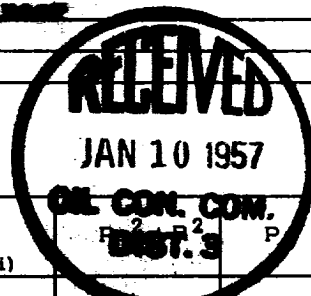
P_c = 1123 psia
Q = 414 Mcf/day
P_w = 493 psia
P_d = 562 psia
D = 392 Mcf/day

Company Pacific Northwest Pipeline Corp.
By Ronald 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})	P _t ²	P _f ² - P _w ²	P
			R ²	(Column 1)		
3777	.240	15148	3636	2912.2	242757	493



3-N.M.O.C.C.-A files
1-L.G. Trust
3-File

OK

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