

Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 11-25-58
Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 29-6 Well No. 50-36
Unit H Sec. 36 Twp. 29N Rge. 6W Pay Zone: From 5108' To 5650'
Casing: OD 3 1/2" WT. 14.05 Set At 5605' Tubing: OD 1 1/2" WT. 2.44 T. Perf. 5612'
Produced Through: Casing Tubing XXX Gas Gravity: Measured .711 Estimated
Date of Flow Test: From 10-7-58 To 10-15-58 * Date S.I.P. Measured 7-31-58
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 449 psig + 12 = 461 psia (g)
Square root chart average reading () ² x sp. const. = 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) 1104 psig + 12 = 1116 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1102 psig + 12 = 1114 psia (k)
P_c = (j) or (k) whichever well flowed through = 1116 psia (l)
Flowing Temp. (Meter Run) 73°F + 460 = 533 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 558 psia (n)

Q = 1033 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{ }}{\sqrt{(d)}} = \text{ }} \right)^* = \underline{1033} MCF/da
(integrated)$

DELIVERABILITY CALCULATION

D = Q 1033 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{(1.073)^{.75}}{1.056} = \underline{1091} MCF/da.$

SUMMARY

P_c = 1116 psia
Q = 1033 Mcf/day
P_w = 613 psia
P_d = 558 psia
D = 1091 Mcf/day

Company PACIFIC NORTHWEST PIPELINE
By Original signed by G. H. Peppin
Title District Production 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
4011	0.253	646.787	163.637	212.501	376.158	613

OK



