

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 11-25-58
Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 29-5 Well No. 41-31
Unit A Sec. 31 Twp. 29N Rge. 5W Pay Zone: From 5186' To 5712'
Casing: OD 5 1/2" WT. 14.04 Set At 5780' Tubing: OD 1-1/4" WT. 2.44 T. Perf. 5684'
Produced Through: Casing _____ Tubing xxx Gas Gravity: Measured .710 Estimated _____
Date of Flow Test: From 10-7-58 To 10-15-58 * Date S.I.P. Measured 6-4-58
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) 1112 psig + 12 = 1124 psia (j)
Wellhead tubing shut-in pressure (Dwt) 614 psig + 12 = 626 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1124 psia (l)
Flowing Temp. (Meter Run) 66 °F + 460 _____ = 586 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 562 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \dots = \dots} \right)^* = \underline{906} MCF/da
(integrated) $\sqrt{(d)} = \dots$$

DELIVERABILITY CALCULATION

D = Q 906 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{(1.025)^{.75}}{1.019} = \underline{923} MCF/da.$

SUMMARY

P_c = 1124 psia Company PACIFIC NORTHWEST PIPELINE
Q = 906 Mcf/day By Original signed by G. H. Peppin
P_w = 582 psia Title District Production Engineer
P_d = 562 psia Witnessed by _____
D = 923 Mcf/day 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
4035	0.254	497.558	126.380	212.521	338.901	582

OK

