

3-H.M.O.C.G. Artes
1-Mill Outlier
1-L.D. Galloway
2-File

Form C-122-A
Revised April 20, 1955

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 11-26-57

Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 29-5 Well No. 34-34
Unit 2 Sec. 34 Twp. 23N Rge. 5W Pay Zone: From 5496' To 5992'
Casing: OD 5 1/2" WT. Set At 6017' Tubing: OD 2-3/8" WT. 4.7 T. Perf. 5938'
Produced Through: Casing Tubing xx Gas Gravity: Measured Estimated .670
Date of Flow Test: From 9-30-57 To 10-8-57 * Date S.I.P. Measured 9-25-56
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 549 psig + 12 = 561 psia (g)
Square root chart average reading () ² x sp. const. = 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) 1122 psig + 12 = 1134 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1122 psig + 12 = 1134 psia (k)
P_c = (j) or (k) whichever well flowed through = 1134 psia (l)
Flowing Temp. (Meter Run) 138 °F + 460 = 598 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 567 psia (n)

Q = 767 (integrated) x $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \underline{767} \text{ MCF/da}$

D = Q 767 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{(1.006)^{.75}}{(1.004)} = \underline{770} \text{ MCF/da.}$

SUMMARY
P_c = 1134 psia
Q = 767 Mcf/day
P_w = 572 psia
P_d = 567 psia
D = 770 Mcf/day
Company PACIFIC NORTHWEST PIPELINE CORP.
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
3860	0.245	51.999	12.740	314.721	327.461	572

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