

3-H.N.O.C.G. Antec

1-L.G. Study

2-Phillips Pot

2-File

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 N. M. Formation Mesa Verde County Nio Abriba
Purchasing Pipeline Pacific Northwest Pipeline Corp Date Test Filed 5-1-57Operator Pacific Northwest Pipeline Lease San Juan 29-6 Well No. 40-33
Unit I Sec. 23 Twp. 29 Rge. 6 Pay Zone: From 5490 To 5970
Casing: OD 5 1/2 WT. 6040 Set At 2 3/8 WT. 5971 T. Perf. 5971
Produced Through: Casing XX Tubing XX Gas Gravity: Measured .675 Estimated
Date of Flow Test: From 4-9-57 To 4-17-57 Date S.I.P. Measured 8-13-57
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) 474 psig + 12 = 486 psia (d)
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: = psi (f)
(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. = psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) 1893 = 1893 psia (i)
Wellhead casing shut-in pressure (Dwt) 1873 psig + 12 = 1885 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1873 psig + 12 = 1885 psia (k)
P_c = (j) or (k) whichever well flowed through 90 = 990 psia (l)
Flowing Temp. (Meter Run) 90 °F + 460 = 540 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 540 psia (n)

FLOW RATE CALCULATION

Q = 1,841 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{1,841}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 1,841 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{(1.021)^{.75}}{1.021} = \underline{1,870}$ MCF/da.

SUMMARY

P_c = 1885 psia
Q = 1841 Mcf/day
P_w = 990 psia
P_d = 540 psia
D = 1870 Mcf/dayCompany Pacific Northwest Pipeline Corp
By George R. 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 ⁻⁸)	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
4003	0.253	239.641	75.799	236.196	311.995	559



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