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1- L.E. Truby
1-File
2- Phillips Petroleum Co.

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 Mesaverde Formation Mesaverde County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Date Test Filed 4-11-57
Operator Pacific Northwest Lease San Juan 29-6 Well No. 4-6
Unit L Sec. 6 Twp. 29N Rge. 6W Pay Zone: From 5364 To 5963
Casing: OD 7" WT. Set At 5960.96 Tubing: OD 1" WT. T. Perf. 5904
Produced Through: Casing XX Gas Gravity: Measured Estimated .650
Date of Flow Test: From 2-19-57 To 2-27-57 * Date S.I.P. Measured
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: = psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading 520 psig + 12 = 532 psia (g)
Square root chart average reading () ² x sp. const. = 532 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 532 psia (h)
P_t = (h) + (f) = 532 psia (i)
Wellhead casing shut-in pressure (Dwt) 1138 psig + 12 = 1144 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1132 psig + 12 = 1144 psia (k)
P_c = (j) or (k) whichever well flowed through = 1144 psia (l)
P_c = (j) or (k) whichever well flowed through 67 °F + 460 = 527 °Abs (m)
Flowing Temp. (Meter Run) = 527 572 psia (n)
P_d = ½ P_c = ½ (l)

FLOW RATE CALCULATION

Q = 380 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 380 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{(1.0484)^{.75}}{1.0360} = \text{394 MCF/da.}$

SUMMARY

P_c = 1144 psia
Q = 380 MCF/day
P_w = 610 psia
P_d = 572 psia
D = 394 MCF/day

* This is date of completion test.
* Meter error correction factor

Company Pacific Northwest Pipeline Corp
By George H. Peppin
Title District Production Engineer
Witnessed by
Company

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-s})	(F _c Q) ²	(F _c Q) ² R ²	(1-e ^{-s})	P _t ² (Column i)	P _t ² + R ²	P _w
3838	0.244	366.708	89.499		283.02	372.523	610



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