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 **EL PASO NATURAL GAS COMPANY** Date Test Filed **2-12-58**

Operator **PACIFIC NORTHWEST PIPELINE** Lease **Blanco 31-8** Well No. **2-5**

Unit **N** Sec. **5** Twp. **31N** Rge. **8W** Pay Zone: From **5800'** To **5805'**

Casing: OD **5½'** WT. **14.0** Set At **5845'** Tubing: OD **1-1/4"** WT. **2.4** T. Perf. **5802'**

Produced Through: Casing _____ Tubing **X X** Gas Gravity: Measured **.581** Estimated _____

Date of Flow Test: From **1-16-58** To **1-23-58** * Date S.I.P. Measured **9-4-57**

Meter Run Size _____ Orifice Size **1.000** 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 _____ psig + 12 = _____ psia (g)

Square root chart average reading (**7.00**)^2 x sp. const. **10** = **490** psia (g)

Corrected seven day avge. meter press. (p$_f$) (g) + (e) = **490** psia (h)

P_t = (h) + (f) = **490** psia (i)

Wellhead casing shut-in pressure (Dwt) **1120** psig + 12 = **1132** psia (j)

Wellhead tubing shut-in pressure (Dwt) **845** psig + 12 = **857** psia (k)

P_c = (j) or (k) whichever well flowed through = **1132** psia (l)

Flowing Temp. (Meter Run) **57** + 460 = **517** °Abs (m)

P_d = ½ P_c = ½ (l) = **566** psia (n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{893} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \underline{\quad} = \underline{\quad} \right)^* = 893 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\ 893 \left[\frac{(P_c^2 - P_d^2) = 961068}{(P_c^2 - P_w^2) = 936430} \right]^n \frac{(1.026)^{.75}}{1.019} = 910 \text{ MCF/da.}$$

SUMMARY

P_c = **1132** psia

Q = **893** Mcf/day

P_w = **587** psia

P_d = **566** psia

D = **910** Mcf/day

Company **PACIFIC NORTHWEST PIPELINE**

By **Original signed by G. H. Peppin**

Title **District Proration Engineer**

Witnessed by _____

Company _____

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)2$	$(F_cQ)^2$ $(1-e^{-S})$ / R^2	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
3371	0.217	483.384	104.894	240.100	344.994	587