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 CORPORATION** _____ Date Test Filed **JAN 1957**

Operator **EL PASO NATURAL GAS** _____ Lease **SAN JUAN UNIT 28-6** _____ Well No. **44-20**

Unit **B** Sec. **20** Twp. **28N** Rge. **6W** Pay Zone: From **5494** To **5638**

Casing: OD **5½"** WT. **15.5** Set At **5673** Tubing: OD **2-3/8** WT. **4.7** T. Perf. **5683**

Produced Through: Casing _____ Tubing **X** Gas Gravity: Measured _____ Estimated **.650**

Date of Flow Test: From **12-18-56** To **12-26-56** * Date S.I.P. Measured **9-21-56**

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 _____ psig + 12 = _____ psia (g)

  Square root chart average reading (_____)^2 x sp. const. **643** = **655** psia (g)

  Corrected seven day avge. meter press. (p_f) (g) + (e) = _____ psia (h)

P_t = (h) + (f)   = **655** psia (i)

Wellhead casing shut-in pressure (Dwt) **1122** psig + 12 = **1134** psia (j)

Wellhead tubing shut-in pressure (Dwt) **1095** psig + 12 = **1107** psia (k)

P_c = (j) or (k) whichever well flowed through   = **1107** psia (l)

Flowing Temp. (Meter Run) **73** °F + 460 = **533** °Abs (m)

P_d = ½ P_c = ½ (l)   = **554** psia (n)

FLOW RATE CALCULATION

$$Q = \frac{\textbf{1671}}{\text{(integrated)}} \times \left(\frac{\sqrt{(c)} = \_\_\_ = \_\_\_}{\sqrt{(d)} \_\_\_} \right)^* = \_\_\_ \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \underline{\textbf{1671}} \left[\begin{matrix} P_c^2 - P_d^2 = \textbf{918533} \\ P_c^2 - P_w^2 = \textbf{738911} \end{matrix} \right]^n \frac{(1.2431)^{.75}}{1.1773} = \underline{\textbf{1967}} \text{ MCF/da.}$$

SUMMARY

P_c = **1107** psia

Q = **1671** Mcf/day

P_w = **697** psia

P_d = **554** psia

D = **1967** Mcf/day

* This is date of completion test.

* Meter error correction factor

Company **PACIFIC NORTHWEST PIPELINE CORPORATION**

By **Donald C. Adams**

Title **Well Test Engineer**

Witnessed by _____

Company _____

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$(F_cQ)^2 \frac{(1-e^{-s})}{R^2}$	$\frac{P_t^2}{\text{(Column i)}}$	$P_t^2 + R^2$	P_w
3655	.233	246836	57513	429,025	486,538	697