3-NMOCC Aztec
1-Bill Cutler
2-Galloway
1-Wayne Smith
2-File

Initial Deliverability Test

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 **Undesignated** _____ Formation **Pictured Cliffs** _____ County **Rio Arriba**

Purchasing Pipeline **EL PASO NATURAL GAS COMPANY** _____ Date Test Filed **9-25-58**

Operator **PACIFIC NORTHWEST PIPELINE** __ Lease **Indian "H"** __ Well No. **1**

Unit **X T** __ Sec. **15** __ Twp. **28N** __ Rge. **3W** __ Pay Zone: From **3810'** __ To **3920'**

Casing: OD **5½"** __ WT. **15.5#** __ Set At **5986'** __ Tubing: OD _____ WT. _____ T. Perf. _____

Produced Through: Casing _____ Tubing _____ Gas Gravity: Measured **.670** __ Estimated _____

Date of Flow Test: From **6-29-58** __ To **7-7-58** __ *Date S.I.P. Measured **8-26-55**

Meter Run Size _____ Orifice Size **.500** __ 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 (**7.30**) ^{2} x sp. const. **10.00** = **533** psia (g)

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

P_t = (h) + (f) = **533** psia (i)

Wellhead casing shut-in pressure (Dwt) **925** psig + 12 = **937** psia (j)

Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)

P_c = (j) or (k) whichever well flowed through = **937** psia (l)

Flowing Temp. (Meter Run) **72** °F + 460 = **532** %Abs (m)

$P_d = \frac{1}{2} P_c = \frac{1}{2}$ (l) = **468.5** psia (n)

FLOW RATE CALCULATION

$Q = $ **16** (integrated) $\times \left(\dfrac{\sqrt{(c)} = ___ = ___}{\sqrt{(d)} ___} \right)^* = $ _____ MCF/da

DELIVERABILITY CALCULATION

$D = Q$ **16** $\left[\dfrac{\left(P_c^2 - P_d^2\right) = \textbf{658,477}}{\left(P_c^2 - P_w^2\right) = \textbf{593,880}} \right]^n$ $(\textbf{1.109})^{.85} = $ **17** MCF/da.

SUMMARY

$P_c = $ **937** psia

$Q = $ **16** Mcf/day

$P_w = $ **533** psia

$P_d = $ **468.5** psia

$D = $ **17** Mcf/day

Company **PACIFIC NORTHWEST PIPELINE CORP.**

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	$(1-e^{-s})$	$(F_cQ)2$	$\dfrac{(F_cQ)^2 \quad (1-e^{-s})}{R^2}$	$\dfrac{P_t^2}{\text{(Column i)}}$	$P_t^2 + R^2$	P_w

DUAL COMPLETION PICTURED CLIFFS PRODUCING THROUGH CASING-TUBING ANNULUS.