3-N. M. O. C. C. Aztec
1-Bill Cutler
1-L. D. Galloway
2-Wayne Smith
1-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 **Blanco Mesa Verde** Formation **Mesa Verde** County **San Juan**

Purchasing Pipeline **PACIFIC NORTHWEST PIPELINE CORPORATION** Date Test Filed **11-7-57**

Operator **PACIFIC NORTHWEST PIPELINE** Lease **San Juan 32-8** Well No. **21-15**

Unit **A** Sec. **15** Twp. **31N** Rge. **8W** Pay Zone: From **5922'** To **5470'**

Casing: OD ~~5½~~ 7-5/8" WT. ____ Set At 3629' **5950'** Tubing: OD **1-1/4"** WT. **2/30** T. Perf. **5910'**

Produced Through: Casing ____ Tubing **X X** Gas Gravity: Measured **.590** Estimated ____

Date of Flow Test: From **9-23-57** To **10-1-57** Date S.I.P. Measured **6-30-57**

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:
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 **474** psig + 12 = **486** 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) = **486** psia (i)
Wellhead casing shut-in pressure (Dwt) **948** psig + 12 = **960** psia (j)
Wellhead tubing shut-in pressure (Dwt) **864** psig + 12 = **876** psia (k)
P_c = (j) or (k) whichever well flowed through = **876** psia (l)
Flowing Temp. (Meter Run) **52°** °F + 460 = **512** °Abs (m)
$P_d = ½ P_c = ½$ (l) = **438** psia (n)

FLOW RATE CALCULATION

Q = **493** (integrated) x ($\sqrt{(c)}$ ____ = ____ = ____ / $\sqrt{(d)}$ ____) * = **493** MCF/da

---

DELIVERABILITY CALCULATION

D = Q **493** $\left[\frac{P_c^2 - P_d^2 = 575{,}532}{P_c^2 - P_w^2 = 498{,}178}\right]^n$ $\frac{(1.1553)^{.75}}{1.1143}$ = **549** MCF/da.

SUMMARY

P_c = **876** psia
Q = **493** Mcf/day
P_w = **519** psia
P_d = **438** psia
D = **549** Mcf/day

Company **PACIFIC NORTHWEST PIPELINE CORPORATION**
By ____
Title **DISTRICT PRORATION ENGINEER**
Witnessed by ____
Company ____

RECEIVED
NOV 8 1957
OIL CON. COM
DIST. 3

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

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)2$	$\frac{(F_cQ)^2 \quad (1-e^{-s})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
3487	0.224	147.331	33.002	236.196	269.198	519