3-NMOCC Aztec
1-Bill Cutler
1-L. D. 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 **Blanco** Formation **Mesa Verde** County **Rio Arriba**

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

Operator **PACIFIC NORTHWEST PIPELINE C** Lease **San Juan 32-8** Well No. **26-16**

Unit **M** Sec. **16** Twp. **31N** Rge. **8W** Pay Zone: From **5380'** To **5878'**

Casing: OD **5-1/2"** WT. **14.0** Set At **5960'** Tubing: OD **1-1/4"** WT. **2.4** T. Perf. **5855'**

Produced Through: Casing ____ Tubing **x x** Gas Gravity: Measured **.616** Estimated ____

Date of Flow Test: From **1-9-58** To **1-17-58** *Date S.I.P. Measured **9-5-57**

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 (**6.90**) ^{2} x sp. const. **10** = **476** psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = ____ psia (h)
P_t = (h) + (f) = **476** psia (i)
Wellhead casing shut-in pressure (Dwt) **1101** psig + 12 = **1113** psia (j)
Wellhead tubing shut-in pressure (Dwt) **910** psig + 12 = **922** psia (k)
P_c = (j) or (k) whichever well flowed through = **1113** psia (l)
Flowing Temp. (Meter Run) **80** °F + 460 = **540** °Abs (m)
$P_d = \frac{1}{2} P_c = \frac{1}{2}$ (l) = **556.5** psia (n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{625} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \_\_\_\_ = \_\_\_\_ \right)^{*} = 625 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\ 625 \left[\frac{\left(P_c^2 - P_d^2\right) = 929077}{\left(P_c^2 - P_w^2\right) = 957495} \right]^n \frac{(0.9703)^{.75}}{0.9776} = 611 \text{ MCF/da.}$$

SUMMARY

P_c = **1113** psia
Q = **625** Mcf/day
P_w = **530** psia
P_d = **556.5** psia
D = **611** 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	$(1-e^{-s})$	$(F_cQ)2$	$(FcQ)^2 \quad (1-e^{-s})$ R^2	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
3607	0.231	236790	54.698	226.576	281.274	530

OK

RECEIVED
FEB 14 1958
OIL CON. COM.
DIST. 3