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** Lease **San Juan 32-8** Well No. **23-14**
Unit **N** Sec. **14** Twp. **31N** Rge. **8W** Pay Zone: From **5478'** To **5998'**
Casing: OD **5-½"** WT. **14.0** Set At **6030'** Tubing: OD **1-1/4"** WT. **2.4** T. Perf. **5998'**
Produced Through: Casing ____ Tubing **x x** Gas Gravity: Measured **.585** Estimated ____
Date of Flow Test: From **1-16-58** To **1-23-58** * Date S.I.P. Measured **10-4-57**
Meter Run Size ____ Orifice Size **1.00** 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 = **490** psia (g)
Square root chart average reading (**7.00**) ^{2} x sp. const. **10** = ____ 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) **1113** psig + 12 = **1125** psia (j)
Wellhead tubing shut-in pressure (Dwt) **1065** psig + 12 = **1077** psia (k)
P_c = (j) or (k) whichever well flowed through = **1125** psia (l)
Flowing Temp. (Meter Run) **57** °F + 460 = **517** °Abs (m)
P_d = ½ P_c = ½ (l) = **562.5** psia (n)

FLOW RATE CALCULATION

Q = **590** (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \_\_\_\_ = \_\_\_\_ \right)^{*}$ = **590** MCF/da

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DELIVERABILITY CALCULATION

$$D = Q \; 590 \left[\frac{\left(P_c^2 - P_d^2\right) = 949219}{\left(P_c^2 - P_w^2\right) = 978049} \right]^{n} \frac{(0.9705)^{.75}}{0.9778} = 577 \text{ MCF/da.}$$

SUMMARY

P_c = **1125** psia
Q = **590** Mcf/day
P_w = **536** psia
P_d = **562.5** psia
D = **577** 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})	$(F_cQ)2$	$(FcQ)^2$ (1-e^{-s}) R^2	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
3509	0.225	211.004	47.476	240.100	287.576	536

OV

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FEB 14 1958
OIL CON. COM.
DIST. 3