Form C-122-A
Revised April 20, 1955

Initial Deliverability Test

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 SAN JUAN

Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORPORATION Date Test Filed JANUARY 24, 1957

Operator Pacific Northwest Pipeline Lease Aztec "A" Well No. 1-17

Unit A Sec. 17 Twp. 32 Rge. 10 Pay Zone: From 5394 To 6118

Casing: OD 7" WT. 20 & 23 # Set At 5320 Tubing: OD 1" WT. 1.8 T. Perf. 5474

Produced Through: Casing x Tubing — Gas Gravity: Measured — Estimated .65

Date of Flow Test: From 11-19-56 To 11-27-56 * Date S.I.P. Measured 4-30-56

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 535	psig + 12 = 547	psia	(g)
Square root chart average reading ( ) ^{2} x sp. const.	=	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 547	psia	(h)
P_t = (h) + (f)	= 1002	psia	(i)
Wellhead casing shut-in pressure (Dwt) 990	psig + 12 = 1002	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 990	psig + 12 = 1002	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 1002	psia	(l)
Flowing Temp. (Meter Run) 42 °F + 460	= 502	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 501	psia	(n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{40.6} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^{*} = \quad \text{MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{753003}{704795} \right]^{n} \frac{(1.0684)^{.75}}{1.0509} = 43 \text{ MCF/da.}$$

SUMMARY

P_c = 1002 psia
Q = 40.6 Mcf/day
P_w = 547 psia
P_d = 501 psia
D = 43 Mcf/day

Company Pacific Northwest Pipeline Corp.
By Donald C. Adams
Title Well Test Engineer
Witnessed by —
Company —

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

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)^2$	$\frac{(F_cQ)^2 \quad (1-e^{-S})}{R^2}$	P_t^2 = (Column i)	$P_t^2 + R^2$	P_w
			FRICTION NEGLIGIBLE $P_w = P_t$			

3-N.M.O.C.C.-Aztec
2-Phillips Petroleum-Wayne Smith
1-L. G. Truby
1-File

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JAN 26 1957
OIL CON. COM.
DIST. 3