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 Mesaverde Formation Mesaverde County Rio Arriba

Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed January 7, 1957

Operator Pacific Northwest Pipeline Lease San Juan Unit 31-6 Well No. 5-31

Unit K Sec. 31 Twp. 31 Rge. 6 Pay Zone: From 5060 To 5569

Casing: OD 5 1/2 WT. 15.5 Set At 5569 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5542

Produced Through: Casing — — Tubing — X Gas Gravity: Measured .650 Estimated

Date of Flow Test: From 11-10-56 To 11-18-56 * Date S.I.P. Measured 11-2-55

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	psig + 12 =	psia	(g)
Square root chart average reading ( ) ^{2} x sp. const.	= 577	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	psia	(h)
P_t = (h) + (f)	= 577	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1056	psig + 12 = 1068	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1030	psig + 12 = 1042	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 1042	psia	(l)
Flowing Temp. (Meter Run) 66 °F + 460	= 526	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 521	psia	(n)

FLOW RATE CALCULATION

Q = 993 (integrated) X ($\sqrt{(c)}$ = ____ = ____ / $\sqrt{(d)}$ ____) * = ____ MCF/da

DELIVERABILITY CALCULATION

D = Q 993 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]$ = 814,323 / 732,788 ^{n} $(1.1113)^{.75}$ = 1.0824 = 1075 MCF/da.

SUMMARY

P_c = 1042 psia
Q = 993 Mcf/day
P_w = 594 psia
P_d = 521 psia
D = 1075 Mcf/day

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

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DIST. 3

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

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)2$	$(F_cQ)^2$ $(1-e^{-s})$ R^2	Pt^2 (Column i)	$P_t + R^2$	P_w
3602	.230	87161	20047	332929	352976	594

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

Ok