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 Mesaverde County Rio Arriba

Purchasing Pipeline Pacific Northwest Pipeline Corp. Date Test Filed 5-29-56

Operator Pacific Northwest Pipeline Corporation Lease Unit 29-5 Well No. 16-21

Unit N Sec. 21 Twp. 29N Rge. 5W Pay Zone: From 5840 To 6030

Casing: OD 7" WT. 23 Set At 6040 Tubing: OD 2" WT. 4.7 T. Perf. 5960

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

Date of Flow Test: From 5-17 To 5-25-56 * Date S.I.P. Measured 12-27-55

Meter Run Size 4" Orifice Size 1½ Type Chart Normal Type Taps Flange

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 465	psig + 12 =	477	psia	(g)
Square root chart average reading (____) ^{2} x sp. const.	=	-	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	477	psia	(h)
P_t = (h) + (f)	=	477	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1095	psig + 12 =	1107	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1101	psig + 12 =	1113	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1113	psia	(l)
Flowing Temp. (Meter Run) 60 °F + 460	=	520	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	557	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{____ (Integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \text{____} = \text{____} \right)^{*} = \text{____ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{928,320}{1,000,625} \right]^{n} \quad n = .75 \quad .9279 \div .9454 = 669 \text{ MCF/da.}$$

SUMMARY

P_c =	1113	psia	
Q =	708	Mcf/day	
P_w =	488	psia	
P_d =	557	psia	
D =	669	Mcf/day	

Company PACIFIC NORTHWEST PIPELINE CORP.

By W. B. Richardson

Title Gas Measurement Engineer

Witnessed by ____

Company ____

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2 (1-e^{-s})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
3874	.245	44.316	10.857	227.529	238.386	488.2

3 - N.M.O.C.C.
1 - W. R. Johnston
1 - L. G. Truby
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