1-NMOCC Aztec
1-Phil Cutler
1-El Paso
1-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 Mesa Verde Formation Mesa Verde County Rio Arriba

Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed 6-10-58

Operator Pacific Northwest Lease San Juan 29-6 Well No. 57-33

Unit A Sec. 33 Twp. 29N Rge. 6W Pay Zone: From 5668' To 5842'

Casing: OD 5-1/2" WT. 14.0# Set At 5679' Tubing: OD 1-1/4" WT. 2.3# T. Perf. 5634'

Produced Through: Casing ^ Tubing x Gas Gravity: Measured .692 Estimated

Date of Flow Test: From 5-15-58 To 5-22-58 * Date S.I.P. Measured 4-1-58

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 611	psig + 12 = 623	psia	(g)
Square root chart average reading ( ) ^{2} x sp. const.	=	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 623	psia	(h)
P_t = (h) + (f)	= 623	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1096	psig + 12 = 1108	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1087	psig + 12 = 1099	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 1108	psia	(l)
Flowing Temp. (Meter Run) 59 °F + 460	= 519	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 554	psia	(n)

FLOW RATE CALCULATION

$$Q = 1,183 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^{*} = \quad \text{MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{988.748}{858.786} \right]^{n} \frac{(1.415)^{.75}}{1.297} = 1,457 \text{ MCF/da.}$$

SUMMARY

P_c =	1108 psia	Company	Pacific Northwest Pipeline
Q =	1183 Mcf/day	By	Original signed by G. H. Pepp n
P_w =	760 psia	Title	District Production Engineer
P_d =	554 psia	Witnessed by	
D =	1,457 Mcf/day	Company	

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)2$	$\frac{(FcQ)^2 \quad (1-e^{-S})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
3899	0.847	764.412	188.809	388.129	576.938	760

RECEIVED
JUN 13 1958
OIL CON. COM.
DIST. 3