1-HMMCO Aztec
1-Bill Collier
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 PACIFIC NORTHWEST PIPELINE CORPORATION Date Test Filed 7- -58

Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 29-6 Well No. 73-31

Unit B Sec. 31 Twp. 29N Rge. 6W Pay Zone: From 5054' To 5608'

Casing: OD 5½" WT. 14.0# Set At 5645' Tubing: OD 2" WT. 4.7# T. Perf. 5579'

Produced Through: Casing ___ Tubing ___ Gas Gravity: Measured .690 Estimated ___

Date of Flow Test: From ___ To ___ * Date S.I.P. Measured 9-11-58

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 477	psig + 12 =	~~[illegible]~~ 489	psia	(g)
Square root chart average reading ( ) ^{2} x sp. const.	=		psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	489	psia	(h)
P_t = (h) + (f)	=	~~[illegible]~~	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1115	psig + 12 =	1127	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1103	psig + 12 =	1115	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1115	psia	(l)
Flowing Temp. (Meter Run) 88 °F + 460	=	548	°Abs	(m)
$P_d = ½ P_c = ½$ (l)	=	557.5	psia	(n)

FLOW RATE CALCULATION

Q = 2,108 (integrated) X ($\sqrt{(c)}$ / $\sqrt{(d)}$ = ___ = ___) * = ___ MCF/da

DELIVERABILITY CALCULATION

D = Q 2,108 $\left[\frac{(P_c^2 - P_d^2) = 932,419}{(P_c^2 - P_w^2) = 906,383} \right]^n$ $\frac{1.029}{1.022}$ = 2,154 MCF/da.

SUMMARY

P_c = 1115 psia

Q = 2,108 Mcf/day

P_w = ~~580~~ 578 psia

P_d = 557.5 psia

D = 2,154 Mcf/day

Company PACIFIC NORTHWEST PIPELINE CORP.

By Original signed by G. H. Pappin

Title [illegible]

Witnessed by ___

Company ___

* 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)	$P_t^2 + R^2$	P_w
3850	0.244	392.793	95.841	241,081	336,922	~~580~~ 578

RECEIVED
JUL 16 1958
OIL CON. COM.
DIST. 3