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 Formation MESAVERDE County SAN JUAN

Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORP. Date Test Filed JANUARY 17, 1957

Operator Pacific Northwest Pipeline Lease Cox Canyon Well No. 4-21

Unit A Sec. 21 Twp. 32 Rge. 11 Pay Zone: From 5078 To 5716

Casing: OD 5" WT. 11.5 Set At 5719 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5705

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

Date of Flow Test: From 11-17-56 To 11-25-56 * Date S.I.P. Measured 8-[illegible]-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	psig + 12 =		psia	(g)
Square root chart average reading ( ) ^{2} x sp. const.	=	592	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=		psia	(h)
P_t = (h) + (f)	=	592	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1004	psig + 12 =	1016	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1003	psig + 12 =	1015	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1015	psia	(l)
Flowing Temp. (Meter Run) 85 °F + 460	=	545	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	508	psia	(n)

FLOW RATE CALCULATION

Q = 1937 (integrated) X ($\sqrt{(c)}$ / $\sqrt{(d)}$ = ______ = ______) = ______ MCF/da

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DELIVERABILITY CALCULATION

D = Q 1937 $\left[\frac{(P_c^2 - P_d^2) = 772161}{(P_c^2 - P_w^2) = 621465}\right]^n$ (1.2038)$^{.75}$ = 1.[illegible] = 2336 MCF/da.

SUMMARY

P_c =	1015	psia	Company Pacific Northwest Pipeline Corp.
Q =	1937	Mcf/day	By Donald C. [illegible]
P_w =	655	psia	Title Well Test Engineer
P_d =	508	psia	Witnessed by ______
D =	2336	Mcf/day	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
3708	.236	331677	78276	350[illegible]	[illegible]8740	655

3-N.M.O.C.C.-Aztec
1-L.G. Truby
3-File

Oil

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JAN 21 57
OIL CON. COM.
DIST. 3