3-NMOCC Aztec
1-Bill Cutler
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 MESA VERDE Formation Mesa Verde County Rio Arriba

Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 6-9-58

Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 29-6 Well No. 58-28

Unit K Sec. 28 Twp. 29N Rge. 6W Pay Zone: From 5508' To 4960'

Casing: OD 5-½" WT. 14.0# Set At 5550' Tubing: OD 1-1/4" WT. 2.3# T. Perf. 5505'

Produced Through: Casing ____ Tubing x x Gas Gravity: Measured .688 Estimated ____

Date of Flow Test: From 5-7-58 To 5-15-58 * Date S.I.P. Measured 3-6-58

Meter Run Size ____ Orifice Size 1.500 Type Chart Sq. Rt. 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	____ psig + 12 =	____	psia	(g)
Square root chart average reading (7.35) ^{2} x sp. const. 10.00	=	540	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	____	psia	(h)
P_t = (h) + (f)	=	540	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1079	psig + 12 =	1091	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1091	psig + 12 =	1103	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1103	psia	(l)
Flowing Temp. (Meter Run) 71 °F + 460	=	531	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	551.5	psia	(n)

FLOW RATE CALCULATION

$$Q = 1,486 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \frac{\quad}{\quad} \right)^{*} = 1,486 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{912.457}{602.440} \right]^{n} \frac{(1.515)^{.75}}{1.366} = 2,030 \text{ MCF/da.}$$

SUMMARY

P_c =	1103	psia
Q =	1486	Mcf/day
P_w =	784	psia
P_d =	551.5	psia
D =	2030	Mcf/day

Company PACIFIC NORTHWEST PIPELINE
By Original signed by G. H. Peppin
Title District Proration Engineer
Witnessed by ____
Company ____

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)^2$	$\frac{(FcQ)^2}{R^2}$ $(1-e^{-S})$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
3787	0.241	1,338.462	322.569	291.600	614.169	784

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JUN 10 1958
OIL CON. COM.
DIST. 3