Form C-122-A
Revised April 20, 1955

Initial Deliverability Test

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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 EL PASO NATURAL GAS COMPANY Date Test Filed 1-12-59

Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 31-6 Well No. 13-4

Unit L Sec. 4 Twp. 30 N Rge. 6 W Pay Zone: From 5234' To 5688'

Casing: OD 5½" WT. ____ Set At 5763' Tubing: OD 2" WT. 4.7# T. Perf. 5784'

Produced Through: Casing ____ Tubing xxx Gas Gravity: Measured .591 Estimated ____

Date of Flow Test: From 12-15-58 To 12-22-58 * Date S.I.P. Measured 10-8-58

Meter Run Size ____ Orifice Size 1.250 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 (6.90)^2 x sp. const. 10.00	=	476	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	____	psia	(h)
P_t = (h) + (f)	=	476	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1053	psig + 12 =	1065	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1058	psig + 12 =	1070	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1070	psia	(l)
Flowing Temp. (Meter Run) 67 °F + 460	=	527	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	535	psia	(n)

FLOW RATE CALCULATION

$$Q = 274 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^{*} = 274 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{858,675}{918,324} \right]^{n} \frac{(0.9350)^{.75}}{0.9508} = 261 \text{ MCF/da.}$$

SUMMARY

P_c = 1070 psia
Q = 274 Mcf/day
P_w = 476 psia
P_d = 535 psia
D = 261 Mcf/day

Company PACIFIC NORTHWEST PIPELINE
By ____
Title District Proration Engineer
Witnessed by ____
Company ____

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(F_cQ)^2}{R^2}(1-e^{-s})$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w

RECEIVED
JAN 21 1959
OIL CON. COM.
DIST. 3

OK