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: Tapacito Formation: Pictured Cliffs County: Rio Arriba

Purchasing Pipeline: Pacific Northwest Pipeline Corporation Date Test Filed: May 13, 1958

Operator: Northwest Production Corp. Lease: "N" Well No.: 11-7

Unit: D Sec.: 7 Twp.: 26N Rge.: 4W Pay Zone: From: 3788 To: 3841

Casing: OD: 5½ WT.: 15.5 Set At: 3886 Tubing: OD: 1-1/4 WT.: 2.3 T. Perf.: 3797

Produced Through: Casing: ____ Tubing: X Gas Gravity: Measured: 0.674 Estimated: ____

Date of Flow Test: From: 3-30-58 To: 4-7-58 * Date S.I.P. Measured: 12-20-57

Meter Run Size: 4.025 Orifice Size: 0.500 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	709	psig + 12 =	721	psia	(g)
Square root chart average reading (____)^2 x sp. const.		=		psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)		=		psia	(h)
P_t = (h) + (f)		=	721	psia	(i)
Wellhead casing shut-in pressure (Dwt)	1033	psig + 12 =	1045	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	1032	psig + 12 =	1044	psia	(k)
P_c = (j) or (k) whichever well flowed through		=	1044	psia	(l)
Flowing Temp. (Meter Run)	58 °F + 460	=	518	°Abs	(m)
P_d = ½ P_c = ½ (l)		=	522	psia	(n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q \; 154 \left[\frac{P_c^2 - P_d^2 = 817{,}452}{P_c^2 - P_w^2 = 567{,}651} \right]^n \frac{1.3633}{(1.440)^N} = 210 \text{ MCF/da.}$$

SUMMARY

P_c =	1044	psia
Q =	154	Mcf/day
P_w =	723	psia
P_d =	522	psia
D =	210	Mcf/day

Company: Northwest Production Corp.
By: M. B. Jones M. B. JONES
Title: Asst Mgr. Prod Opr
Witnessed by: ____
Company: ____

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

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)^2$	$\frac{(F_cQ)^2 (1-e^{-S})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
2559	0.170	14.379	2,444	519,841	522,285	722.7

Fc = 24.62

RECEIVED
MAY 14 1958
OIL CON. COM.
DIST. 3