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 Aztec FORMATION Pictured Cliff COUNTY San Juan

PURCHASING PIPELINE El Paso Natural Gas Co. DATE TEST FILED 12-14-55

OPERATOR Pubco Development, Inc. LEASE State WELL NO. 20

UNIT J SEC. 36 TWP. 29N RGE. 10W PAY ZONE: From 2051 To 2086

CASING: OD 5½ WT. 14 SET AT 2041 Gr. TUBING: OD 1" WT. 1.7 T.Perf. 2047

PRODUCED THROUGH: CASING X TUBING ____ GAS GRAVITY: MEASURED .670 ESTIMATED ____

DATE OF FLOW TEST: From 11-23-55 To 11-30-55 *Date S.I.P. MEASURED 9-16-55

METER RUN SIZE 4" ORIFICE SIZE 1" TYPE CHART Sq.Rt. TYPE TAPS Flange

OBSERVED DATA

Flowing casing pressure (Dwt)	-0- psig + 12 =	-0-	psia	(a)
Flowing tubing pressure (Dwt)	-0- psig + 12 =	-0-	psia	(b)
Flowing meter pressure (Dwt)	-0- psig + 12 =	-0-	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 (6.20) ^{2} x sp. const. 5 =		192	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e) =		-0-	psia	(h)
P_t = (h) + (f) =		192	psia	(i)
Wellhead casing shut-in pressure (Dwt) 679 psig + 12 =		691	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 380 psig + 12 =		692	psia	(k)
P_c = (j) or (k) whichever well flowed through. =		691	psia	(l)
Flowing Temp. (Meter Run) 53 °F + 460 =		513	°Abs	(m)
$P_d = \frac{1}{2} P_c = \frac{1}{2}$ (l) =		346	psia	(n)

FLOW RATE CALCULATION

$$Q = \frac{286}{\text{(integrated)}} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^{*} = 286 \text{ MCF/da.}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{\left| P_c^2 - P_d^2 \right| = 357,765}{\left| P_c^2 - P_w^2 \right| = 440,617} \right]^{n} \quad \frac{.85 = .8366}{(81196)} = 240 \text{ MCF/da.}$$

SUMMARY

P_c =	691 psia	Company	Pubco Development, Inc.
Q =	286 Mcf/day	By	M. E. Maxwell, Jr.
P_w =	192 psia	Title	Supt. Prod. Dept.
P_d =	346 psia	Witnessed by	Wayne Martin
D =	240 Mcf/day	Company	Pubco Development, Inc.

* 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
Friction too small to measure through casing.				36,864	36,864	192

Initial Production Deliverability. First delivery to El Paso on 11-7-55.