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 FORMATION Mesaverde COUNTY San Juan

PURCHASING PIPELINE Southern Union Gathering System DATE TEST FILED July 27, 1960

OPERATOR Aztec Oil & Gas Company LEASE East WELL NO. 4

UNIT B SEC. 24 TWP. 31 RGE. 12 PAY ZONE: From 4867 To 5047

CASING: OD 7 WT. 20 SET AT 4897 TUBING: OD 2 WT. 4.7 T.Perf. 4874

PRODUCED THROUGH: CASING ____ TUBING X GAS GRAVITY: MEASURED 0.668 ESTIMATED ____

DATE OF FLOW TEST: From 5/31 To 6/7 *Date S.I.P. MEASURED 6/14/60

METER RUN SIZE 4 ORIFICE SIZE 0.500 TYPE CHART S R TYPE TAPS Flg.

OBSERVED DATA

Flowing casing pressure (Dwt)	590 psig + 12 =	602	psia	(a)
Flowing tubing pressure (Dwt)	551 psig + 12 =	563	psia	(b)
Flowing meter pressure (Dwt)	551 psig + 12 =	563	psia	(c)
Flowing meter pressure (meter reading when Dwt. measurement taken:				
Normal chart reading	____ psig + 12 =	____	psia	(d)
Square root chart reading (7.50)^2 x spring constant 10	=	563	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	=	0	psi	(f)
Seven day average static meter pressure (from meter chart):				
Normal chart average reading	550 psig + 12 =	562	psia	(g)
Square root chart average reading (____)^2 x sp. const.	=	____	psia	(g)
Corrected seven day avge. meter press. (Pf) (g) + (e)	=	562	psia	(h)
P_t = (h) + (f)	=	562	psia	(i)
Wellhead casing shut-in pressure (Dwt)	664 psig + 12 =	677	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	663 psig + 12 =	675	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	675	psia	(l)
Flowing Temp. (Meter Run)	____ °F + 460 =	____	°Abs	(m)
$P_d = \frac{1}{2} P_c = \frac{1}{2}$ (l)	=	338	psia	(n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\text{9k}} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = 1.0000 \right)^{*} = \text{9k MCF/da.}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{|P_c^2 - P_d^2|}{|P_c^2 - P_w^2|} = \frac{\text{341961}}{\text{139761}} \right]^{n} = 0.75 \quad 1.9534 = \text{18k MCF/da.}$$

SUMMARY

P_c =	675 psia	Company	Aztec Oil & Gas Company
Q =	9k Mcf/day	By	ORIGINAL SIGNED BY I. M. STEVENS
P_w =	562 psia	Title	I. M. Stevens, Dist. Engr.
P_d =	338 psia	Witnessed by	
D =	18k Mcf/day	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
Friction Loss Is Negligible						

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except Barker Dome Storage Area)

POOL Blanco FORMATION Mesaverde COUNTY San Juan

PURCHASING PIPELINE Southern Union Gathering System DATE TEST FILED July 27, 1960

OPERATOR Aztec Oil & Gas Company LEASE East WELL NO. [illegible]

UNIT B SEC. 24 TWP. [illegible] RGE. [illegible] PAY ZONE: From [illegible] To [illegible]

CASING: OD 7 WT. 20 SET AT [illegible] TUBING: OD [illegible] WT. [illegible] T.Perf. [illegible]

PRODUCED THROUGH: CASING ____ TUBING X GAS GRAVITY: MEASURED [illegible] ESTIMATED ____

DATE OF FLOW TEST: From [illegible] To [illegible] *Date S.I.P. MEASURED [illegible]

METER RUN SIZE 4 ORIFICE SIZE 0.500 TYPE CHART [illegible] TYPE TAPS [illegible]

OBSERVED DATA

Flowing casing pressure (Dwt) ________ psig + 12 = 602 psia (a)

Flowing tubing pressure (Dwt) ________ psig + 12 = [illegible] psia (b)

Flowing meter pressure (Dwt) ________ psig + 12 = [illegible] psia (c)

Flowing meter pressure (meter reading when Dwt. measurement taken:

Normal chart reading . . . . ________ psig + 12 = ________ psia (d)

Square root chart reading ([illegible])^2 x spring constant ________ = [illegible] 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 . . = [illegible] psi (f)

Seven day average static meter pressure (from meter chart):

Normal chart average reading . . . . . . ________ psig + 12 = [illegible] psia (g)

Square root chart average reading (________)^2 x sp. const. ________ = ________ psia (g)

Corrected seven day avge. meter press. (pf) (g) + (e) = [illegible] psia (h)

P_t = (h) + (f) . . . . = [illegible] psia (i)

Wellhead casing shut-in pressure (Dwt) ________ psig + 12 = [illegible] psia (j)

Wellhead tubing shut-in pressure (Dwt) ________ psig + 12 = [illegible] psia (k)

P_c = (j) or (k) whichever well flowed through . . . . = [illegible] psia (l)

Flowing Temp. (Meter Run) ________ °F + 460 . . . . . = ________ °Abs (m)

$P_d = \frac{1}{2} P_c = \frac{1}{2}$ (l) . . . . = [illegible] psia (n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{[\text{illegible}]} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \underline{\qquad} = [\text{illegible}] \right)^{*} = [\text{illegible}] \text{ MCF/da.}$$

DELIVERABILITY CALCULATION

$$D = Q \; [\text{illegible}] \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{[\text{illegible}]}{[\text{illegible}]} \right]^{n \; 0.75} = [\text{illegible}] = [\text{illegible}] \text{ MCF/da.}$$

SUMMARY

P_c = [illegible] psia Company [illegible]

Q = [illegible] Mcf/day By ORIGINAL SIGNED BY L. M. STEVENS

P_w = [illegible] psia Title [illegible]

P_d = [illegible] psia Witnessed by ________

D = [illegible] Mcf/day Company ________

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e^{-s})	(F$_c$Q)^2	(F$_c$Q)^2 (1-e^{-s}) / R^2	Pt^2 (Column i)	P$_t^2$ + R^2	P$_w$
Friction loss negligible						