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 West Kutz Formation Pictured Cliffs County San Juan

Purchasing Pipeline Southern Union Gas Company Date Test Filed February 1, 1956

Operator Aztec Oil & Gas Company Lease Whitley Well No. 1-A

Unit C Sec. 17 Twp. 27 Rge. 11 Pay Zone: From _____ To _____

Casing: OD _____ WT. _____ Set At _____ Tubing: OD _____ WT. _____ T. Perf. _____

Produced Through: Casing _____ Tubing _____ Gas Gravity: Measured _____ Estimated _____

Date of Flow Test: From 12-31-55 To 1-8-56 * Date S.I.P. Measured 1-18-56

Meter Run Size _____ Orifice Size _____ 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 150	psig + 12 =	162	psia	(g)
Square root chart average reading (_____)^2 x sp. const.	=	_____	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	162	psia	(h)
P_t = (h) + (f)	=	162	psia	(i)
Wellhead casing shut-in pressure (Dwt) 317	psig + 12 =	329	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 317	psig + 12 =	329	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	329	psia	(l)
Flowing Temp. (Meter Run) 60 °F + 460	=	520	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	165	psia	(n)

FLOW RATE CALCULATION

$$Q = 17 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \frac{\quad}{\quad} \right)^{*} = \text{_____ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{n} = 17 \left[\frac{81,181}{81,997} \right]^{.85} = 17 \left[.9915 \right]^{.85} = 17 \left[.9898 \right]$$

SUMMARY

P_c =	329	psia	
Q =	17	Mcf/day	
P_w =	162	psia	
P_d =	165	psia	
D =	17	Mcf/day	

Company AZTEC OIL & GAS COMPANY
By ORIGINAL SIGNED BY BILL R. HASTINGS
Title Production Engineer
Witnessed by _____
Company _____

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)^2$	$\frac{(FcQ)^2 \quad (1-e^{-S})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
		Friction loss negligible				

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