FIRE HYDRANT FLOW TEST FORM

NEW BRAUNFELS UTILITIES

355 FM 306, NEW BRAUNFELS TX 78130

I. PROJECT INFORMATION (TO BE COMPLETED BY APPLICANT)				
Name:	Phone: <u>(</u>)		
Company Address:				
Project Name:				
Address (Lot / Block):				
Nearest Cross Street / Distance (ft):				
II. FLOW TEST DATA (TO BE COMPLETED BY APP	PLICANT)			
FLOW HYDRANT:				
Plan Sheet: Hydrant #:	Outle	t Diameter: 5"	2-½"	
Size and Material of Main:				
Static PSI: Residual PSI:	Pitot (PSI):	Pitot 2(PSI): _		
Observed Flow (GPM):				
Calculated Fire Flow @ 20 PSI: Duration of Flow:		Date and Time:		
TEST (STATIC) HYDRANT:				
Plan Sheet: Hydrant #:				
Size and Material of Main:	Static PSI:	Resid	dual PSI:	
TEST (STATIC) HYDRANT:				
Plan Sheet: Hydrant #:				
Size and Material of Main:	Static PSI:	Resid	dual PSI:	
III. NBFD FIRE HYDRANT FLOW REQUIREMENTS	(TO BE COMPLETE			
Signature of Please Print Name FIRE DEPARTMENT REVIEWER				
Date: / Title:				
Time:(am / pm)	Decline:			
Comments (if applicable):				
IV.TESTER / COMPANY INFORMATION (TO BE C	OMPLETED BY APP	LICANT)		
Flow Test Conducted by:	Phone: ()			
Company Name				
Texas Dept. of Insurance State Fire Marshal's Office License #:				
Company Address:				
Date:/ Signature:				

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V. CALCULATIONS AND SKETCH (TO BE COMPLETED BY APPLICANT)

EQUATIONS:

Indicate North

Following equations should be used to determine the Residual and Fire Flows			
Residual Flow	Fire Flow		
$Q_r = 29.83 \times c_d \times D^2 VP_p \times H_f$	$Q_f = Q_r \times ((P_s-20 / (P_s-P_r))^{0.54}$		
Where :	Where:		
Q_r = the residual flow at the pitot pressure measured in gpm	Q _f = the Fire Flow in gpm at 20 psi		
c_d = the friction loss coefficient (usually 0.9 for a smooth 2-½"	P_s = the static pressure in psi		
opening)	P _r = the residual pressure in psi		
D = the diameter of the opening in inches			
P_p = the pitot pressure in psi			
H _f = the number of hydrants flowed			
CALCULATIONS:			
Residual Flow:	Fire Flow:		

Residual Flow:	Fire Flow:	
SKETCH (LOCATION OF RESIDUAL AND FIRE FLOW HYDRANTS):		
Label Hydrant #'s and Street Name(s)		