

# Fire Hydrant Flow Test Form



Test form to be filled out and returned in PDF format.

Click to **Reset Fields** in II. Flow Test Data and III. Calculations.

Hover cursor over fields to display ToolTips.

I. Project Information (To be completed by Applicant)		
Name:	V.K. Knowlton Construction & Utilities, Inc.	Phone: (210) 651-6860
Company Address:	18225 FM 2252, San Antonio, Texas 78266	
Project Name:	<b>VERAMENDI PRECINCT 18, UNIT 1</b>	
NBU Work Order Numbers:	W-226995 / WW-226996	

TEST #9

II. Flow Test Data (To be completed by Applicant)				
Test Hydrant	NBU FH ID #: 364 F/H	Plan Sheet/Hydrant #: Exhibit - 364 F/H	Private: No	
	Location Description: Alley 2 (between Primaria and Wellowwood)			
	Size and Material of Main: 8" main C-900 PVC (200)			
	Manufacturer: MUELLER CENTURION	OEM Year: 2024		
	Static PSI: 46	Residual PSI: 30	% Pressure Drop: 34.78	Date and Time: 5/15/2026 9:58 am
Flow Hydrant	NBU FH ID #: 138 F/H	Plan Sheet/Hydrant #: Exhibit - 138 F/H	Diameter: 2.5	
	Size and Material of Main: 8" main C-900 PVC (200)			
	Pitot PSI: 30	Observed Flow (GPM): 919	Mins Flowed: 1	Date and Time: 5/15/2026 9:58 am
	Total Water Loss: 919			
Flow Hydrant	NBU FH ID #: 138 F/H	Plan Sheet/Hydrant #: Exhibit - 138 F/H	Diameter: 2.5	
	Size and Material of Main: 8" main C-900 PVC (200)			
	Pitot PSI: 30	Observed Flow (GPM): 919	Mins Flowed: 1	Date and Time: 5/15/2026 9:58 am
	Total Water Loss: 919			

III. Calculations (Auto-populated)	
<b>Residual Flow</b> $Q_r = 29.83 \times c_d \times D^2 \sqrt{P_p \times H_f}$	<b>Fire Flow at 20 PSI</b> $Q_f = Q_r \times ((P_s - 20) / (P_s - P_r))^{0.54}$
<b>Cd</b> = 0.9	<b>Qr</b> = 1838
<b>D</b> = 2.5	<b>Ps</b> = 46
<b>Pp</b> = 30	<b>Pr</b> = 30
<b>Hf</b> = 2	<b>Qf</b> = 2389
<b>Qr</b> = 1838	<b>NFPA 291 Standard Color Code :</b> 1500 GPM & Above = Light Blue

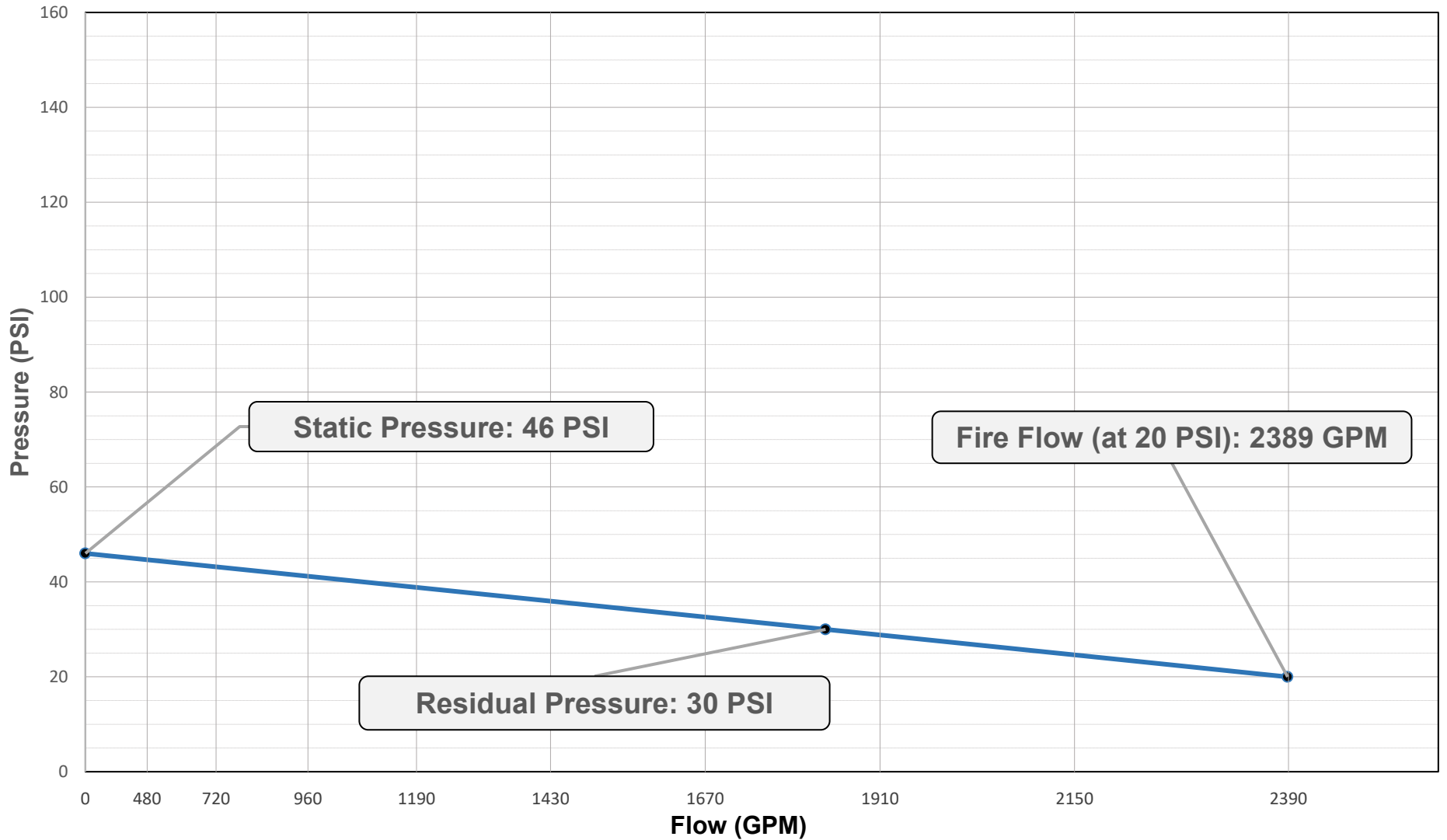
IV. Tester/Company Information (To be completed by Applicant)	
Flow Test Conducted by: Protection Development, Incorporated	Phone: (210) 828-7533
Business License #: Texas Registered Engineering Firm (F-2816)	
Company Address: 8620 N. New Braunfels Avenue, Suite 100, San Antonio, Texas 78217	
Signature: Geoff Owens & Alex Akeroyd <i>Geoff Owens</i>	Date: 05/15/2026

V. NBFDFire Hydrant Flow Requirements (To be completed by Fire Department)		
Print Name:	Title:	Accepted: <input type="checkbox"/>
Signature:	Date and Time:	





<b>Project Name:</b>	Veramendi Pct 18, Unit 1 - Test #9
<b>Project Number:</b>	26-0064
<b>Test Date:</b>	May 15, 2026
<b>City:</b>	New Braunfels



<b>Static Pressure:</b> 46 PSI	<b>Residual Pressure:</b> 30 PSI	<b>Flow Test @ Residual Pressure:</b> 1,838 GPM	<b>Fire Flow (at 20 PSI):</b> 2,389 GPM
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