

# Fire Hydrant Flow Test Form

Required fields highlighted in blue.

Auto-populated Fields:

% Pressure Drop, Total Water Loss, Residual Flow, Fire Flow at 20PSI, and NFPA 291 Standard Color Code.

I. Project Information						
<b>Name:</b> V.K. Knowlton Construction & Utilities, Inc.				<b>Phone:</b> (210) 651-6860		
<b>Company Address:</b> 18225 FM 2282 San Antonio, TX 78266						
<b>Project Name:</b> THE LANDING - UNIT 1						
<b>NBU Work Order Numbers:</b>						

Point #	Grid Easting	Grid Northing	Elevation	Code	FH#	Test #: 11
26	13812026.3300	2273194.8550	667.466	F/H	11	

II. Flow Test Data						
Click <b>Reset Fields</b> to recalculate auto-populated fields.						
Test Hydrant	<b>NBU FH ID #:</b>		<b>Plan Sheet/Hydrant #:</b> Sheet C6.1		10	<b>Private:</b> No
	<b>Location Description:</b> Climb Ridge at Cargo Trails					
	<b>Size and Material of Main:</b> 8 inch main C-900 (200)					
	<b>Manufacturer:</b> CLOW			<b>OEM Year:</b> 2023		
	<b>Static PSI:</b> 99	<b>Residual PSI:</b> 62	<b>% Pressure Drop:</b> 37.37	<b>Date and Time:</b> 2/13/2025 10:25 am		
Flow Hydrant 1	<b>NBU FH ID #:</b>		<b>Plan Sheet/Hydrant #:</b> Sheet C6.1		11	<b>Diameter:</b> 2.5
	<b>Size and Material of Main:</b> 8 inch main C-900 (200)					
	<b>Pitot PSI:</b> 32	<b>Observed Flow:</b>		949	<b>Minutes Flowed:</b> 2	
	<b>Total Water Loss:</b> 1898					
Flow Hydrant 2 (OPTIONAL)	<b>NBU FH ID #:</b>		<b>Plan Sheet/Hydrant #:</b> Sheet C6.1		11	<b>Diameter:</b> 2.5
	<b>Size and Material of Main:</b> ~~FLOWING BOTH OUTLETS OF HYDRANT 1~~					
	<b>Pitot PSI:</b> 32	<b>Observed Flow:</b>		949	<b>Minutes Flowed:</b> 2	
	<b>Total Water Loss:</b> 1898					

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> $Q_f = Q_r \times \left( \frac{P_s - 20}{P_s - P_r} \right)^{0.54}$
<b>Cd</b> = 0.9	<b>Qr</b> = 1898
<b>D</b> = 2.5	<b>Ps</b> = 99
<b>Pp</b> = 32	<b>Pr</b> = 62
<b>Hf</b> = 2	<b>Qf</b> = 2859
<b>Qr</b> = 1898	<b>NFPA 291 Standard Color Code :</b> 1500 GPM & Above = Light Blue

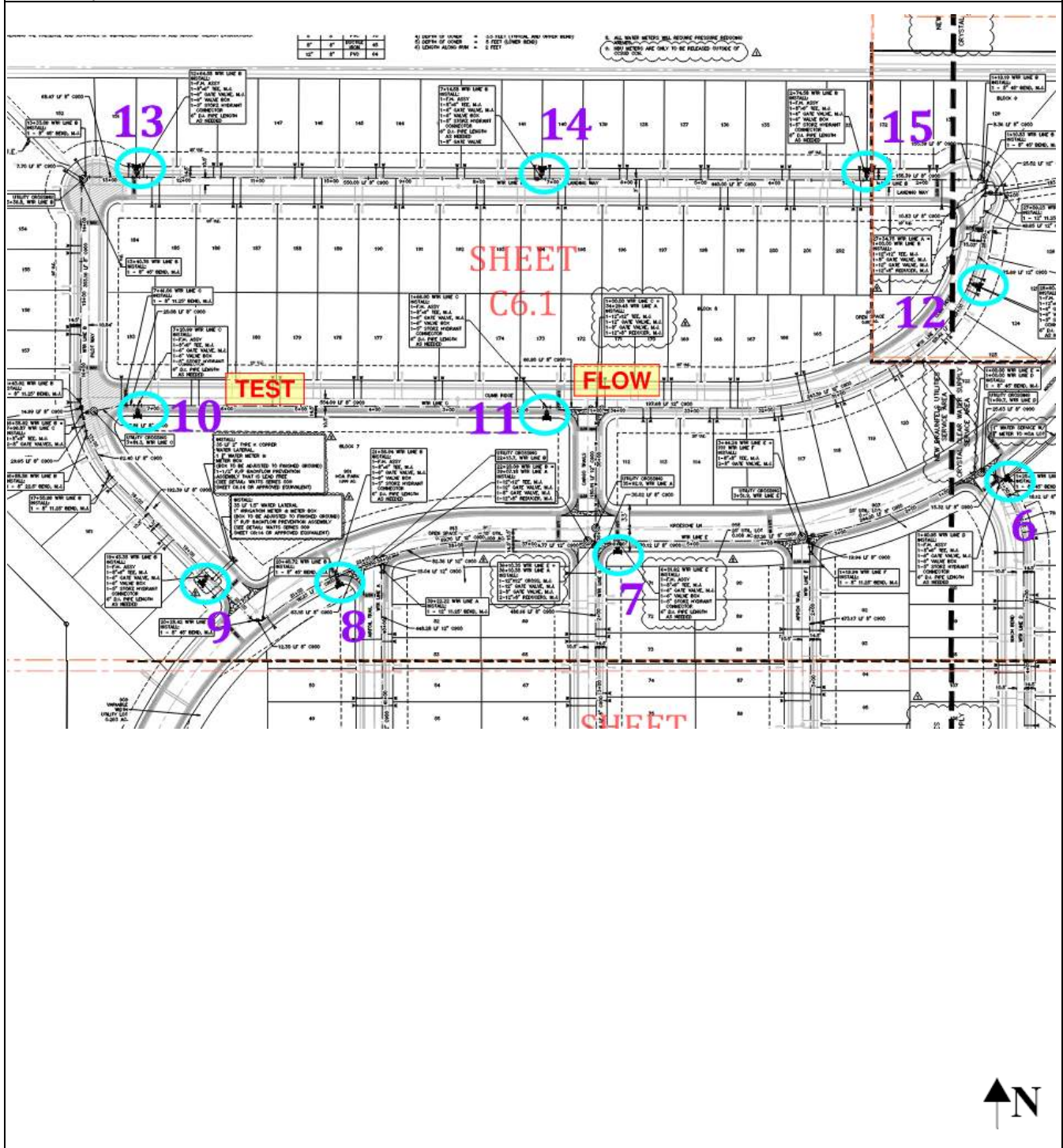
IV. Tester/Company Information	
<b>Flow Test Conducted by:</b> PROTECTION DEVELOPMENT, INCORPORATED	<b>Phone:</b> (210) 828-7533
<b>Business License #:</b> Texas Registered Engineering Firm (F-2816)	
<b>Company Address:</b> 8620 North New Braunfels Avenue, Suite 100, San Antonio, Texas 78217	
<b>Print Name:</b> Alex Akeroyd and Nicholas Balanciere	<b>Date:</b> 02/13/2025

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

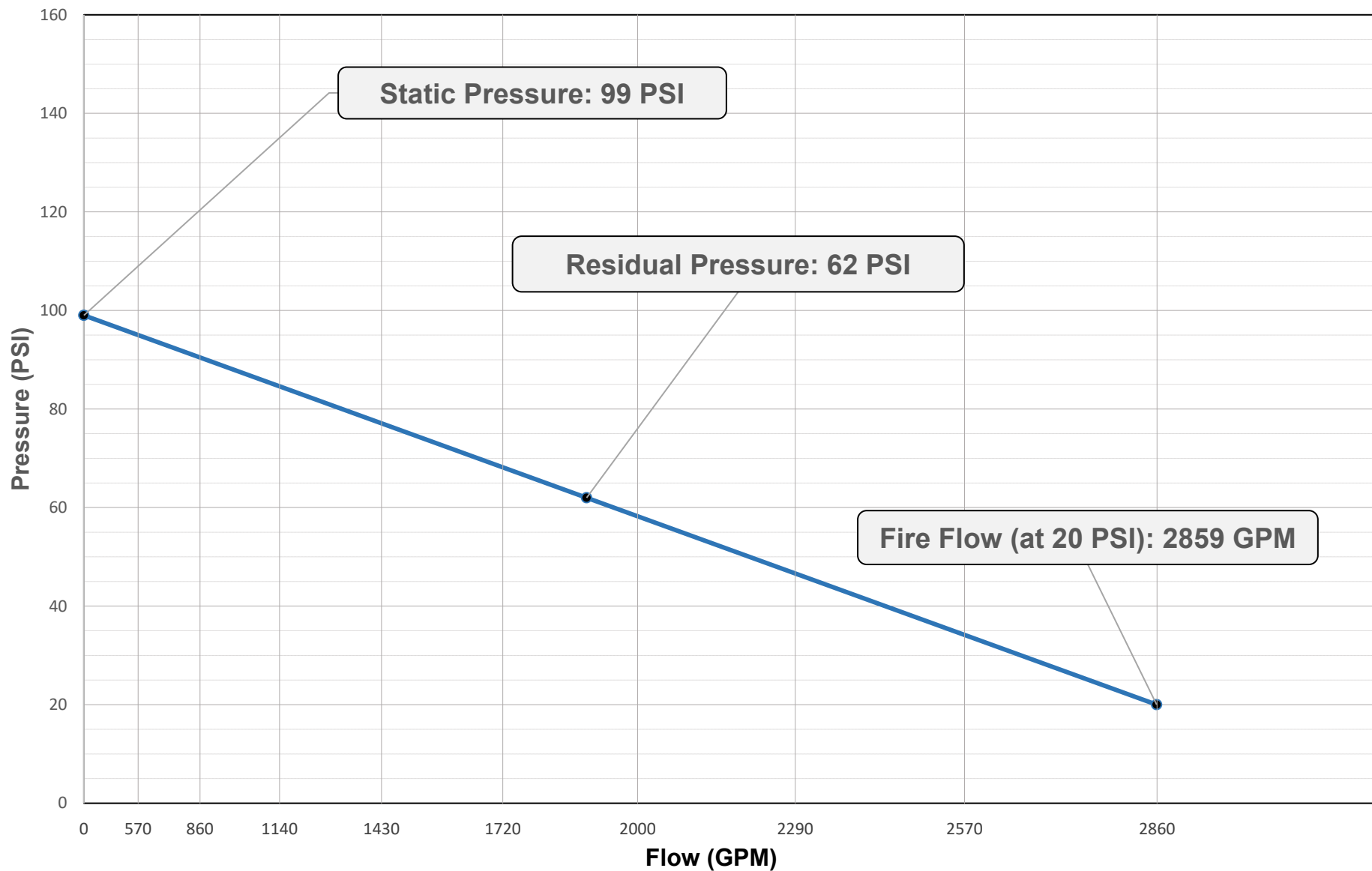
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## VI. Sketch (Attach any additional calculations and graphs made by testing company)

Label Hydrant Numbers and Street Names



Project Name:	The Landing Unit 1 - Test #11
Project Number:	25-0033
Test Date:	February 13, 2025
City:	New Braunfels



Static Pressure: 99 PSI	Residual Pressure: 62 PSI	Flow Test @ Residual Pressure: 1,898 GPM	Fire Flow (at 20 PSI): 2,859 GPM
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