

# 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 #:
22	13812566.6000	2273269.2560	669.909	F/H	15	15

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 C6.0	<b>Private:</b> No
	<b>Location Description:</b> Landing Way a Climb Ridge		
	<b>Size and Material of Main:</b> 12 inch main C-900 (200)		
	<b>Manufacturer:</b> CLOW		<b>OEM Year:</b> 2023
	<b>Static PSI:</b> 91	<b>Residual PSI:</b> 54	<b>% Pressure Drop:</b> 40.66 <b>Date and Time:</b> 2/13/2025 10:55 am
Flow Hydrant 1	<b>NBU FH ID #:</b>	<b>Plan Sheet/Hydrant #:</b> Sheet C6.0	<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 C6.0	<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> $Q_f = Q_r \times ((P_s - 20) / (P_s - P_r))^{0.54}$
<b>Cd</b> = 0.9	<b>Qr</b> = 1898
<b>D</b> = 2.5	<b>Ps</b> = 91
<b>Pp</b> = 32	<b>Pr</b> = 54
<b>Hf</b> = 2	<b>Qf</b> = 2699
<b>Qr</b> = 1898	<b>NFPA 291 Standard Color Code :</b> 1500 GPM & Above = Light Blue

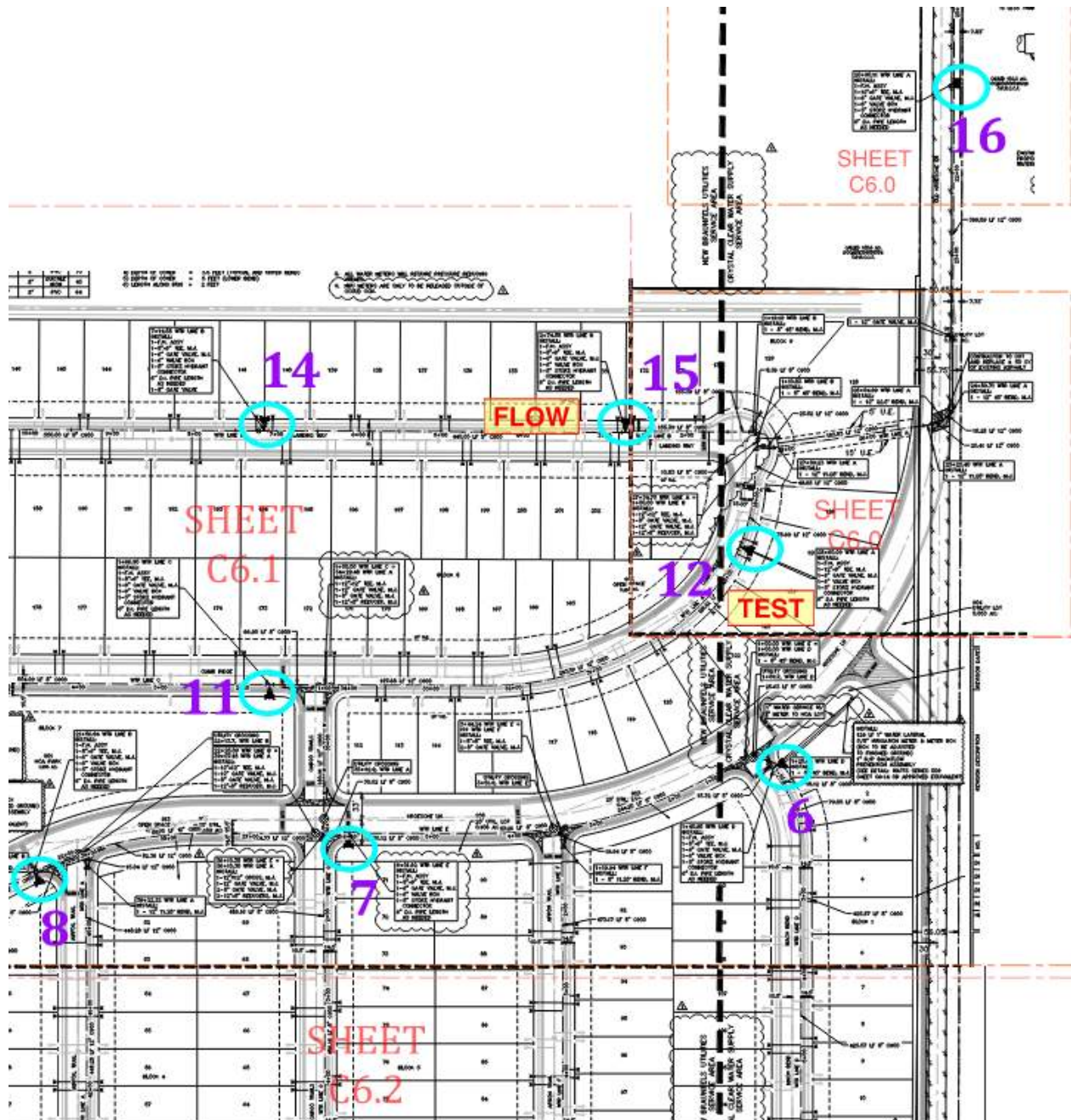
IV. Tester/Company Information	
<b>Flow Test Conducted by:</b> PROTECTION DEVELOPMENT, INCORPORATED	<b>Phone:</b> (210) 828-7533
<b>Business License #:</b> Texas Registered Engineering Firm (F-2816)	
<b>Company Address:</b> 8620 North New Braunfels Avenue, Suite 100, San Antonio, Texas 78217	
<b>Print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

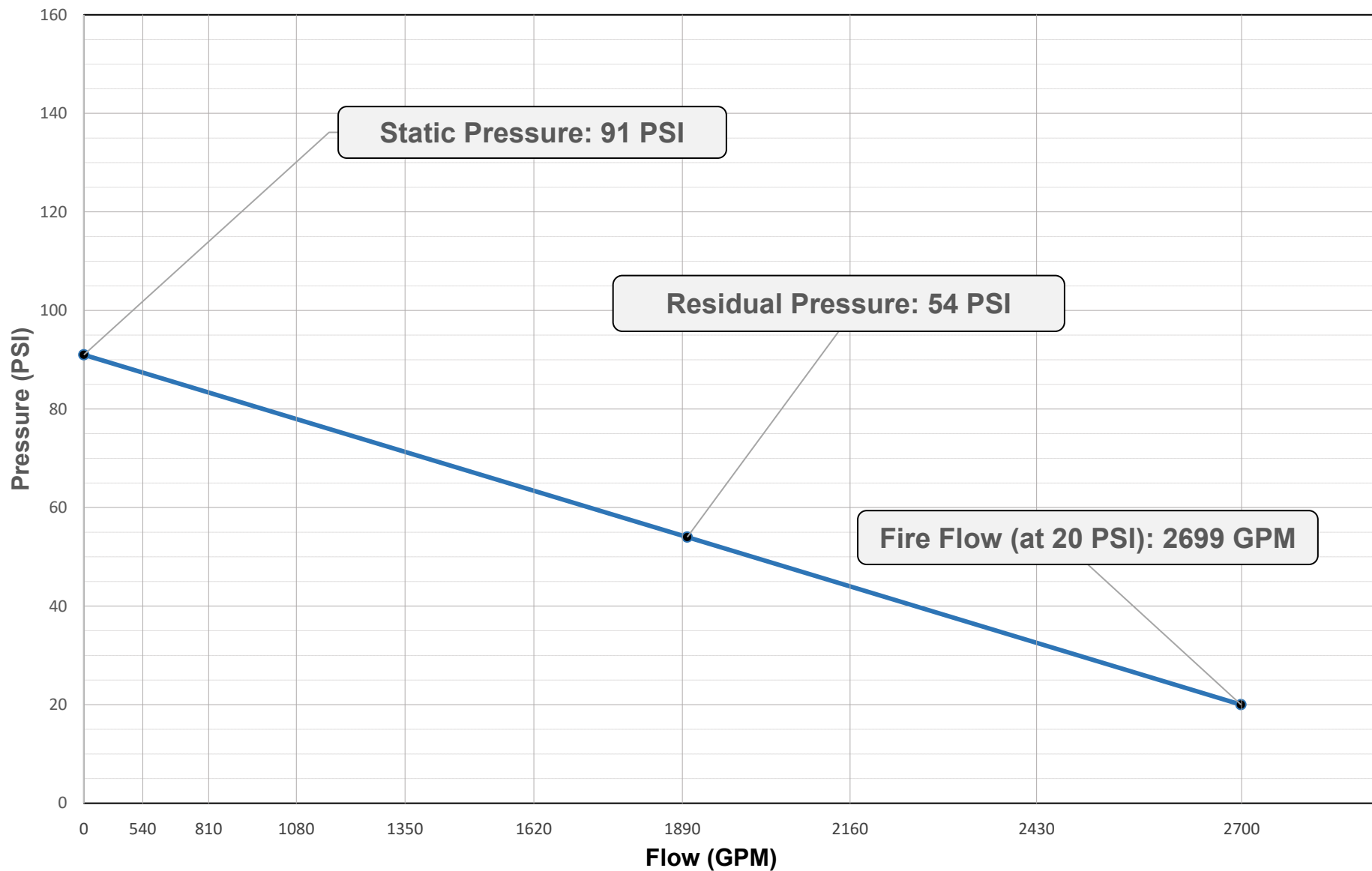
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## VI. Sketch (Attach any additional calculations and graphs made by testing company)

Label Hydrant Numbers and Street Names



Project Name:	The Landing Unit 1 - Test #15
Project Number:	25-0033
Test Date:	February 13, 2025
City:	New Braunfels



<b>Static Pressure:</b> 91 PSI	<b>Residual Pressure:</b> 54 PSI	<b>Flow Test @ Residual Pressure:</b> 1,898 GPM	<b>Fire Flow (at 20 PSI):</b> 2,699 GPM
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