

Fire Hydrant Flow Test Form

Required fields highlighted in blue.

Auto-populated Fields:

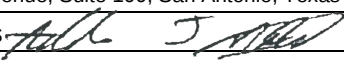
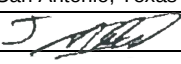
% Pressure Drop, Total Water Loss, Residual Flow, Fire Flow at 20PSI, and NFPA 291 Standard Color Code.

I. Project Information	
Name: V.K. Knowlton Construction & Utilities, Inc.	Phone: (210) 651-6860
Company Address: 18225 FM 2252, San Antonio, Texas 78266	
Project Name: STEELWOOD TRAIL UNIT 4	
NBU Work Order Numbers: W-209398	

TEST # 4

II. Flow Test Data		Click Reset Fields to recalculate auto-populated fields.	
Test Hydrant	NBU FH ID #: 15126	Plan Sheet/Hydrant #: NBU Asset Map / 15126	Private: No
	Location Description: S. Solms Road north of Moon Hill Road		
	Size and Material of Main: 12" C900 (DR-18)		
	Manufacturer: CLOW		OEM Year: 2024
	Static PSI: 82	Residual PSI: 68	% Pressure Drop: 17.07 Date and Time: 9/16/2025 12:00 pm
Flow Hydrant 1	NBU FH ID #: ID #1	Plan Sheet/Hydrant #: C6.00 / ID #1	Diameter: 2.5
	Size and Material of Main: 8" C900 (DR-18)		
	Pitot PSI: 34	Observed Flow: 978	Minutes Flowed: 2
	Total Water Loss: 1956		
Flow Hydrant 2 (OPTIONAL)	NBU FH ID #: ID #1	Plan Sheet/Hydrant #: C6.00 / ID #1	Diameter: 2.5
	Size and Material of Main: ***flowing both outlets of hydrant***		
	Pitot PSI: 34	Observed Flow: 978	Minutes Flowed: 2
	Total Water Loss: 1956		

III. Calculations (Auto-populated)	
Residual Flow $Q_r = 29.83 \times c_d \times D^2 \sqrt{P_p \times H_f}$	Fire Flow at 20 PSI $Q_f = Q_r \times ((P_s - 20) / (P_s - P_r))^{0.54}$
Cd = 0.9	Qr = 1957
D = 2.5	Ps = 82
Pp = 34	Pr = 68
Hf = 2	Qf = 4370
Qr = 1957	NFPA 291 Standard Color Code: 1500 GPM & Above = Light Blue

IV. Tester/Company Information	
Flow Test Conducted by: Protection Development, Incorporated	Phone: (210) 828-7533
Business License #: Texas Registered Engineering Firm (F-2816)	
Company Address: 8620 North New Braunfels Avenue, Suite 100, San Antonio, Texas 78217	
Print Name: Alex Akeroyd and Geoff Owens  	Date: 09/16/2025

2025-0223

V. NBFD Fire Hydrant Flow Requirements (To be completed by Fire Department)		
Print Name:	Title:	Accepted: ☐
Signature:		Date and Time:

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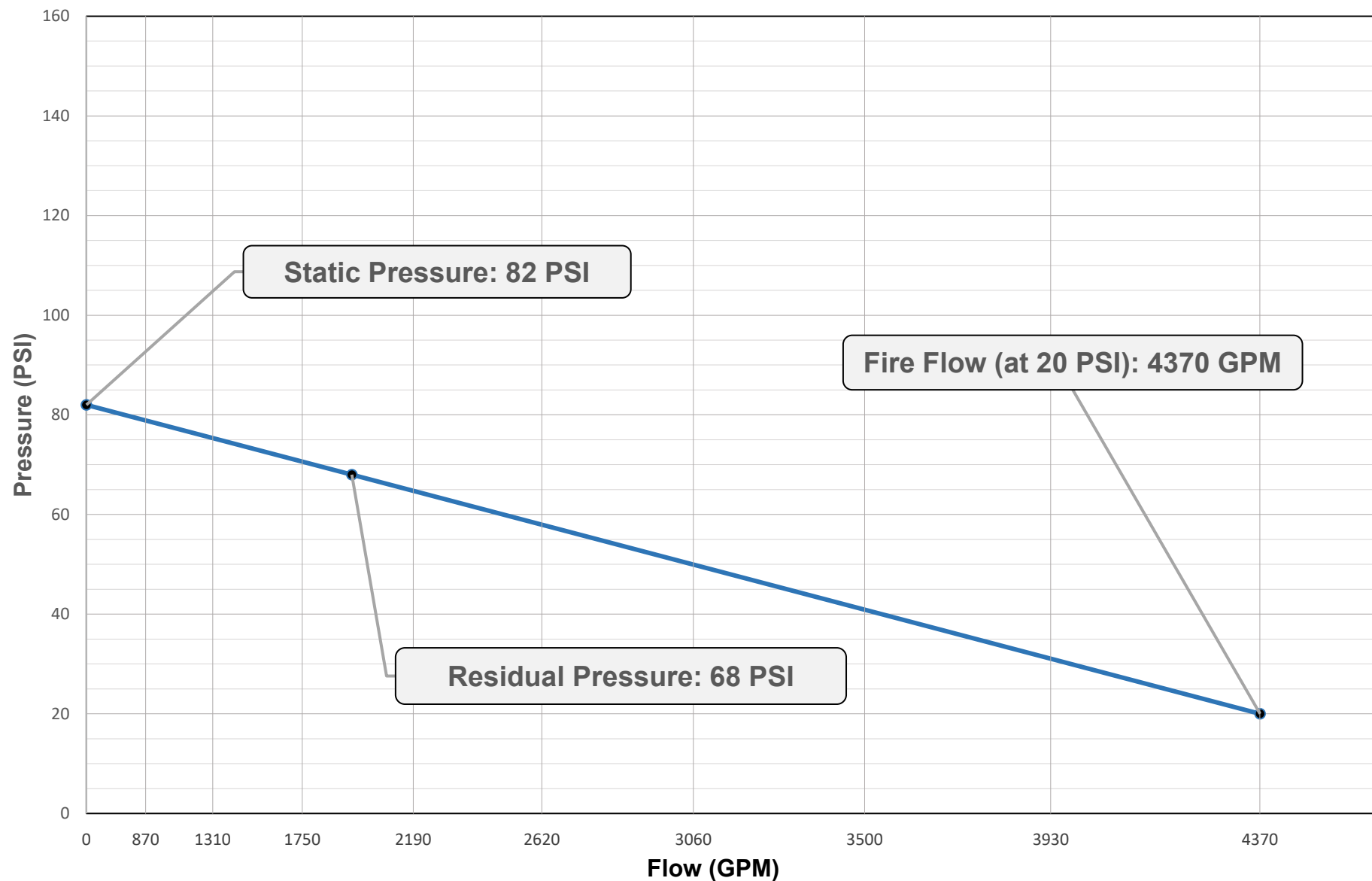


VI. Sketch (Attach any additional calculations and graphs made by testing company)

Label Hydrant Numbers and Street Names



Project Name:	Steelwood Trail Unit 4 - Test #4
Project Number:	25-0223
Test Date:	September 16, 2025
City:	New Braunfels



Static Pressure:	82 PSI	Residual Pressure:	68 PSI	Flow Test @ Residual Pressure:	1,957 GPM	Fire Flow (at 20 PSI):	4,370 GPM
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