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 # 1

II. Flow	Test Data			Clic	k Reset Fiel	ds to recalcu	ılate auto-populated fi	ields.
Test	NBU FH ID #: 15126		Plan Sheet/Hydrant #: NBU Asset Map / 15126			Private: No		
Hydrant	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: 80	Residual	PSI: 70	% Pressure D	rop: 12.50	Date and	Time: 9/16/2025 10:4	0 am
Flow	NBU FH ID #: ID	#59	Plan Sheet	/ Hydrant #: C6.	00 / ID #59		Diameter: 2.5	
Hydrant 1	Size and Material of Main: 12" C900 (DR-18)							
	Pitot PSI: 26	Observed 1	Flow:	856	Minutes Fl	owed:		2
	Total Water Loss: 1712							
Flow Hydrant 2 (OPTIONAL)	NBU FH ID #: ID #59 Plan Shee		et/Hydrant #: C6.00 / ID #59			Diameter: 2.5		
	Size and Material of Main: ***flowing both outlets of hydrant***							
(OI HONAL)	Pitot PSI: 26	Observed 1	Flow:	856	Minutes Fl	owed:		2
	Total Water Loss: 1712							

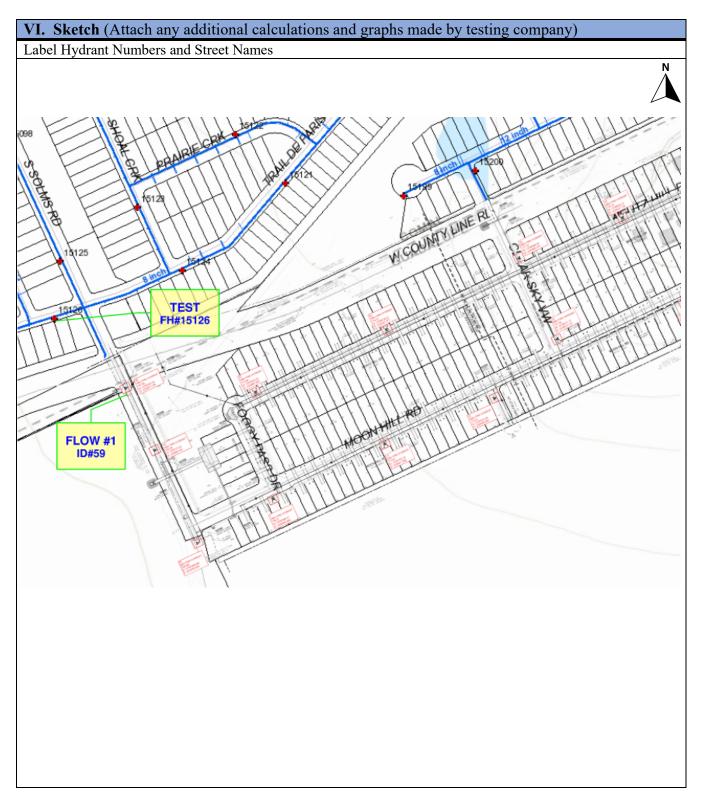
III. Calculations (Auto-populated)			
Residual Flow $Qr = 29.83 \times cd \times D^2 \sqrt{Pp} \times Hf$	Fire Flow at 20 PSI $Qf = Qr \times ((Ps-20 / (Ps -Pr))^0.54$		
Cd = 0.9	Qr = 1711		
D = 2.5	$\mathbf{P}\mathbf{s} = 80$		
$\mathbf{Pp} = 26$	Pr = 70		
$\mathbf{Hf} = 2$	Qf = 4503		
$\mathbf{Qr} = 1711$	NFPA 291 Standard Color Code: 1500 GPM & Above = Light Blue		

IV. Tester/Company Information				
Flow Test Conducted by: Protection Development, Incorporated		Phone: (21	0) 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	4/1 7	Alle	Date: 09/16/2025	
	and a	11/200	2025-0223	

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

Fire Hydrant Flow Test Form







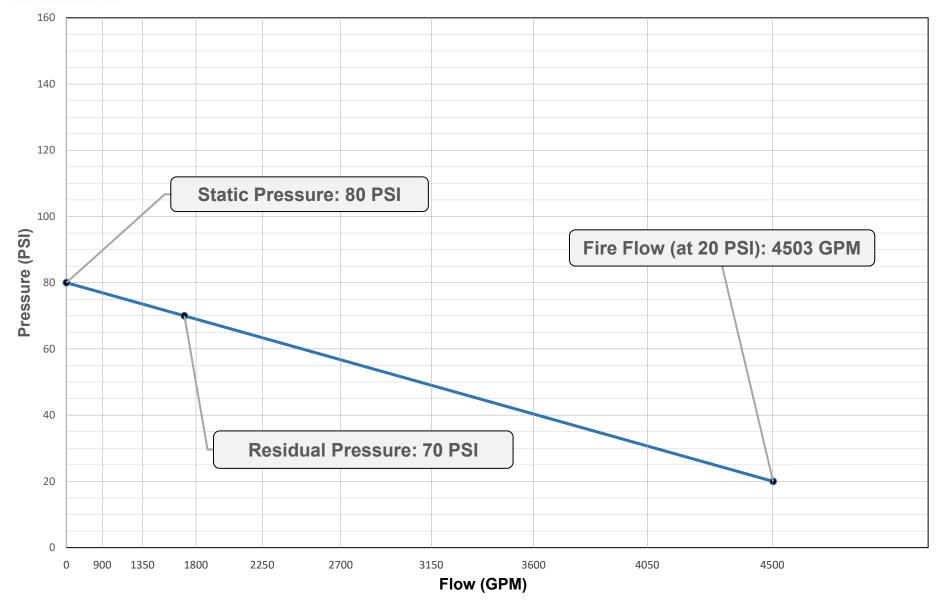


80 PSI

Static Pressure:

Residual Pressure: 70 PSI

Project Name:	Steelwood Trail Unit 4 - Test #1
Project Number:	25-0223
Test Date:	September 16, 2025
City:	New Braunfels



Flow Test @

Residual Pressure:

1,711 GPM

Fire Flow (at 20 PSI):

4,503 GPM