



Flow Test Summary

Project Name: EJFT 22154 - Artesia
Project Address: North Scottsdale Road & East Indian Bend Road, Scottsdale, Az 85253
Date of Flow Test: 2022-04-14
Time of Flow Test: 7:23 AM
Data Reliable Until: 2022-10-14
Conducted By: Steven Saethre & Caleb Crabbs (EJ Flow Test) 602.999.7637
Witnessed By: Christopher Mendez (City of Scottsdale) 602.908.9046
City Forces Contacted: City of Scottsdale (602.908.9046)
Permit Number: C68359

Note Scottsdale requires a max static pressure of 72 psi for safety factor.

Raw Flow Test Data

Static Pressure: 82.0 PSI
Residual Pressure: 50.0 PSI
Flowing GPM: 1,573
GPM @ 20 PSI: 2,248

Data with a 10 PSI Safety Factor

Static Pressure: 72.0 PSI
Residual Pressure: 40.0 PSI
Flowing GPM: 1,573
GPM @ 20 PSI: 2,044

Hydrant F₁

Pitot Pressure (1): 24 PSI
Coefficient of Discharge (1): 0.9
Hydrant Orifice Diameter (1): 2.5 inches
Pitot Pressure (2): 20 PSI
Coefficient of Discharge (2): 0.9
Hydrant Orifice Diameter (2): 2.5 inches



Static-Residual
Hydrant

Flow Hydrant

Distance Between F₁ and R
541 ft (measured linearly)

Static-Residual Elevation
1291 ft (above sea level)

Flow Hydrant (F₁) Elevation
1296 ft (above sea level)

Elevation & distance values are
approximate

EJ Flow Tests, LLC

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Static-Residual Hydrant



Flow Hydrant (only hydrant F1 shown for clarity)



Approximate Project Site



Water Supply Curve $N^{1.85}$ Graph

