

BELLISSIMA ESTATES

NW QUARTER SECTION 20

TOWNSHIP 3 NORTH, RANGE 5 EAST

GILA & SALT RIVER BASE AND MERIDIAN

MARICOPA COUNTY, ARIZONA

WATER DESIGN REPORT

Accepted For:
City of Scottsdale
Water Resources Department
9379 E. San Salvador
Scottsdale, Arizona

By: David Mann
Date: 9.29.16

SEE comments



4-PP-2016
9/26/2016

ROSENDAHL ENGINEERING PLLC

URBAN DESIGN & INFRASTRUCTURE

RESIDENTIAL & COMMERCIAL

WATER DESIGN REPORT:

There exists a 6 inch diameter ACP water line in N. 98th Street, which ties into an 8 inch ACP water line extending East within the E. Jenan Drive right-of-way. Flow tests have been performed on a hydrant existing on E. Cactus Road in the NE quadrant of its intersection with N. 98th Street and taking a static pressure reading on a hydrant 600 feet to the West. The second test was performed on a hydrant 635 feet East of the intersection of E. Jenan Drive and N. 98th Street with the static hydrant lying 1200 feet East of that hydrant on E. Jenan Drive. From the enclosed flow test results we can conclude that placement of an additional fire hydrant approximately midway between the two hydrant flow tests that were made will yield the same results as either of them. The system as it exists will be adequate for servicing these 6 new custom homes.

No FEE credit available

LEACH lot to have a water.

Project requires a FIRE hydrant between lots 2+3



EXP: 3-31-19



21630 N 9th Ave Suite 101
Phoenix, AZ 85027
Phone: 623-582-3369
Fax: 623-582-4078

FIRE HYDRANT FLOW TEST SUMMARY REPORT

Licensed - Bonded - Insured
AZ ROC # 216491, 219214

LOCATION 98 Th Street and Cactus
Scottsdale AZ

DATE: 08/15/16
TIME: 9:00AM
Report# _____
Tech: _____

Static Hydrant Number: 2
Elevation: 0

Flowing Hydrant Number: 1
Elevation: 0

Dist. Between Hydrants: 200YDS

Diameter of Main: 8"

Type of Supply: Public

Outlet Diameter: 2.5

Number flowing: 1
Coeff. of Discharge: 0.90

Static Pressure: 65.00

Residual Pressure: 62

Pitot Reading: 50.00

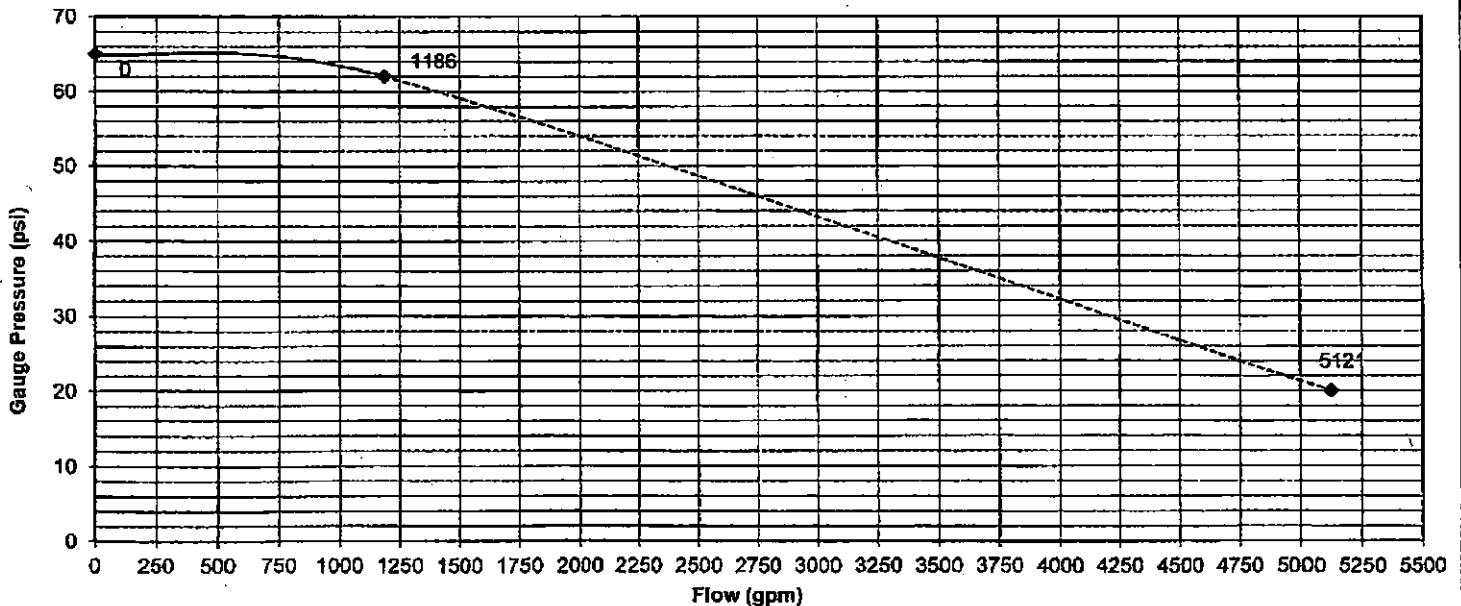
Flow: 1186.5 gpm

Pump Present: No

Static pressure of	65 psi @	0 gpm
Residual pressure of	62 psi @	1186.5 gpm
Available flow @	20 psi -	5120.9 gpm

Tank Present: No

Flow at 20 psi: 5120.9 gpm



Comments:

NOTES:

1. Flowing hydrant is assumed to be on a circulating main or downstream of the pressure test hydrant on a dead-end system.
2. Flow analysis assumes a gravity flow system with no distribution pumps and having no demand, other than the test
3. The distance between hydrants, elevations & main diameters are for information only.



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Licensed - Bonded - Insured
AZ ROC # 216491, 219214

LOCATION 98 Th Street and Jenan Dr
Scottsdale AZ

DATE: 08/15/16
TIME: 9:00AM

Report# _____
Tech: _____

Static Hydrant Number: 2
Elevation: 0

Flowing Hydrant Number: 1
Elevation: 0

Dist. Between Hydrants: 400YDS

Diameter of Main: 8"

Type of Supply: Public

Outlet Diameter: 2.5

Number flowing: 1
Coeff. of Discharge: 0.90

Static Pressure: 68.00

Residual Pressure: 62

Pitot Reading: 50.00

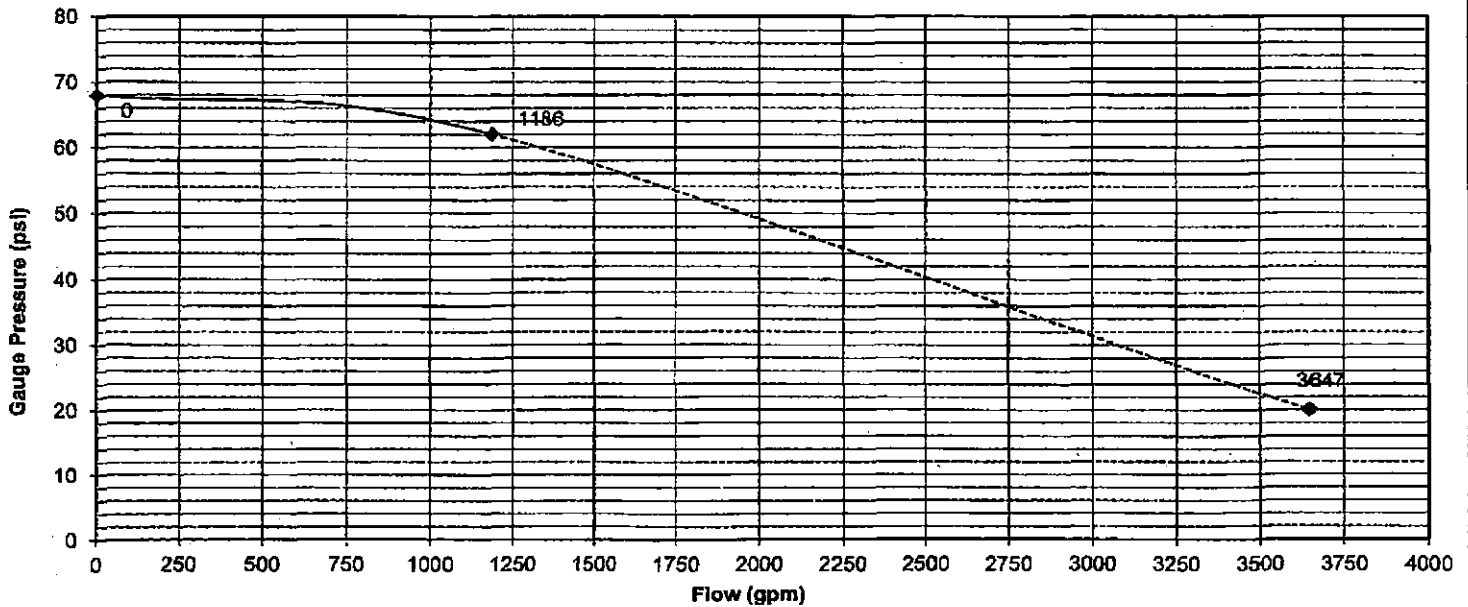
Flow: 1186.5 gpm

Pump Present: No

Static pressure of 68 psi @ 0 gpm
Residual pressure of 62 psi @ 1186.5 gpm
Available flow @ 20 psi - 3646.9 gpm

Tank Present: No

Flow at 20 psi: 3646.9 gpm



Comments:

NOTES:

1. Flowing hydrant is assumed to be on a circulating main or downstream of the pressure test hydrant on a dead-end system.
2. Flow analysis assumes a gravity flow system with no distribution pumps and having no demand, other than the test
3. The distance between hydrants, elevations & main diameters are for information only.