H-3. Individual Slug Test Analyses Sheets

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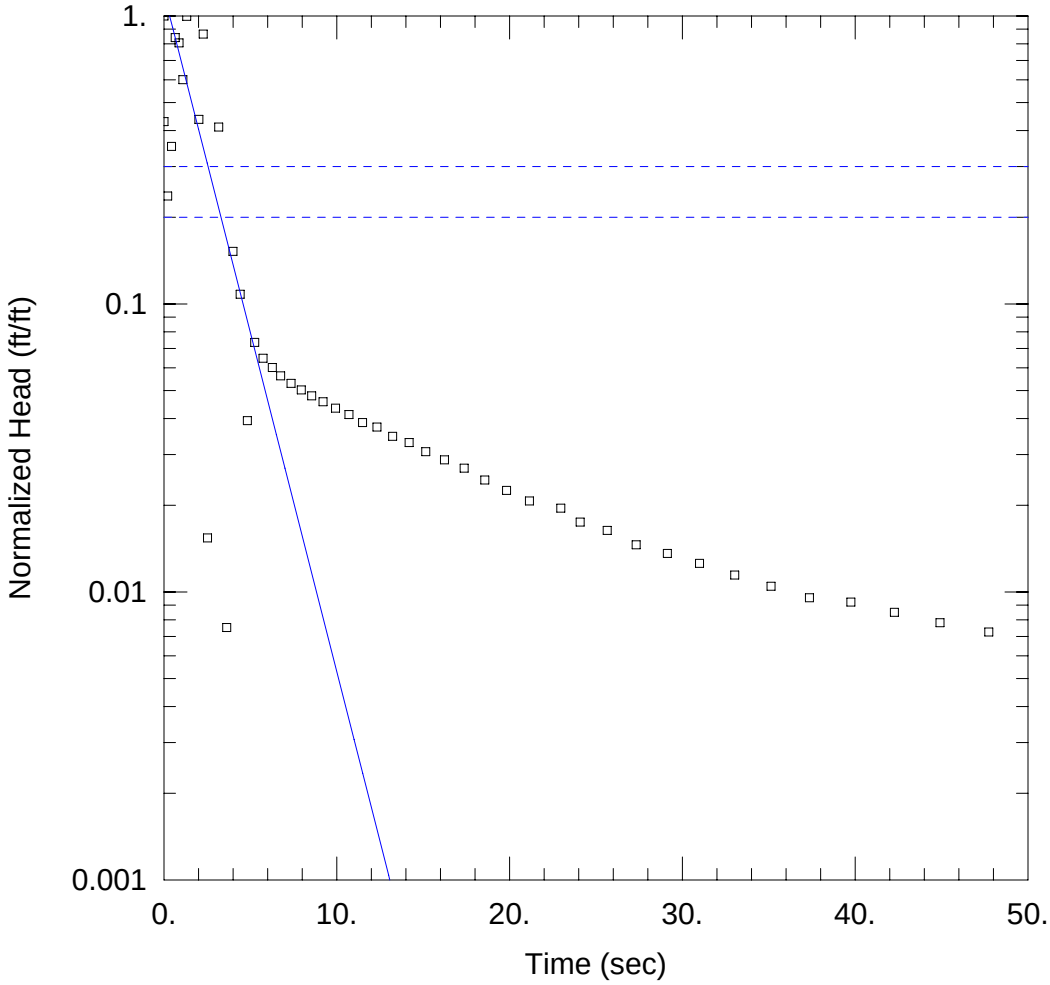


KAFB10610IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10610IN-BR.aqt
Date: 08/25/11 Time: 08:23:28

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10610
Test Date: 7/21/11

AQUIFER DATA

Saturated Thickness: 31.86 ft
Anisotropy Ratio (Kz/Kr): 0.1

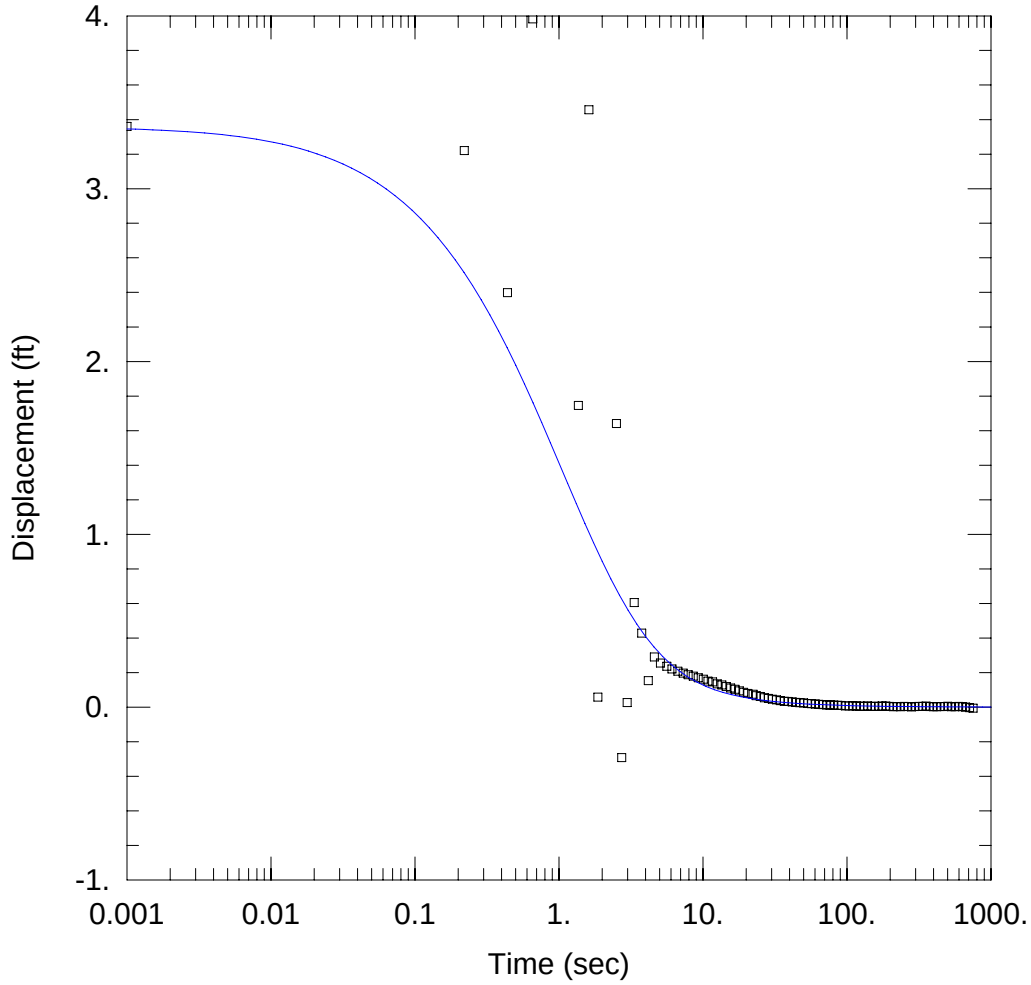
WELL DATA (KAFB 10610)

Initial Displacement: 4. ft
Total Well Penetration Depth: 20.86 ft
Casing Radius: 0.167 ft
Static Water Column Height: 23.36 ft
Screen Length: 20.86 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 137.2 ft/day
y0 = 4.781 ft



KAFB10610IN

Data Set: C:\...\KAFB10610IN-KGS[2].aqt
Date: 08/25/11 Time: 08:25:37

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10610
Test Date: 7/21/11

AQUIFER DATA

Saturated Thickness: 31.86 ft

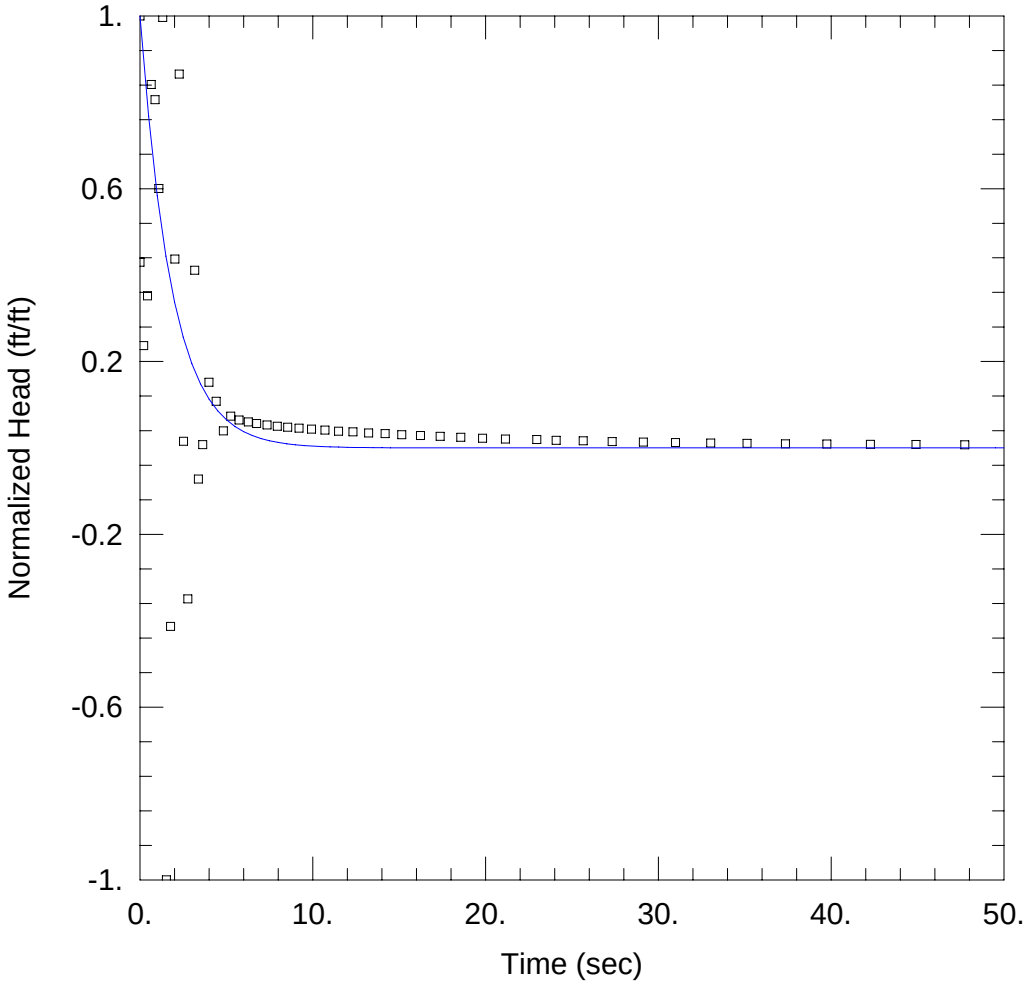
WELL DATA (KAFB 10610)

Initial Displacement: 3.36 ft
Total Well Penetration Depth: 20.86 ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 23.36 ft
Screen Length: 20.86 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 102.6 ft/day
Kz/Kr = 0.03802
Ss' = 3.162E-5 ft^{-1}
Ss = 0.000631 ft^{-1}
Kr' = 199.4 ft/day
Kz/Kr' = 0.08913



KAFB10610IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10610IN-SG.aqt
Date: 08/25/11 Time: 08:24:28

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10610
Test Date: 7/21/11

AQUIFER DATA

Saturated Thickness: 31.86 ft Anisotropy Ratio (Kz/Kr): 0.1

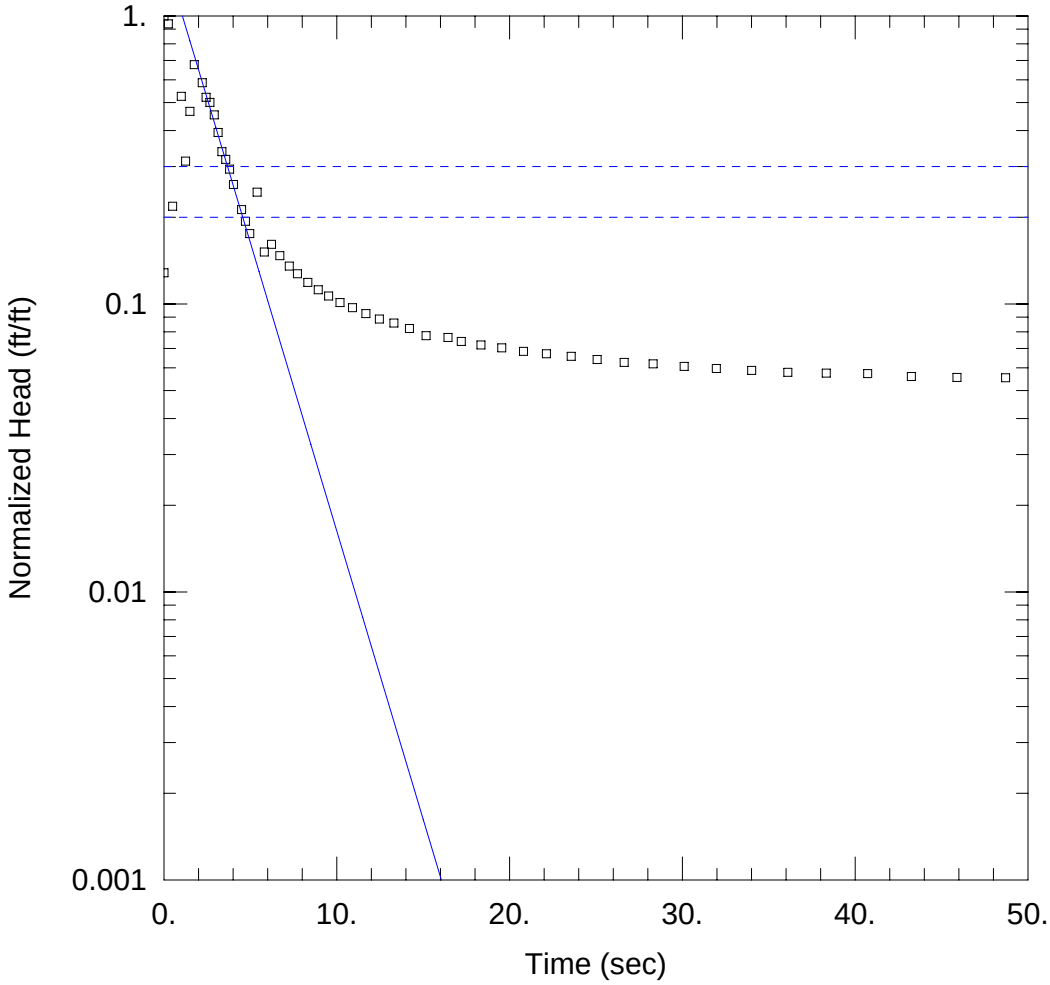
WELL DATA (KAFB 10610)

Initial Displacement: 4. ft
Total Well Penetration Depth: 20.86 ft
Casing Radius: 0.167 ft
Static Water Column Height: 23.36 ft
Screen Length: 20.86 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Springer-Gelhar

K = 137.5 ft/day Le = 1. ft



KAFB10610OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10610OUT2-BR.aqt
Date: 08/25/11 Time: 08:26:23

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10610
Test Date: 7/21/11

AQUIFER DATA

Saturated Thickness: 31.86 ft Anisotropy Ratio (Kz/Kr): 0.1

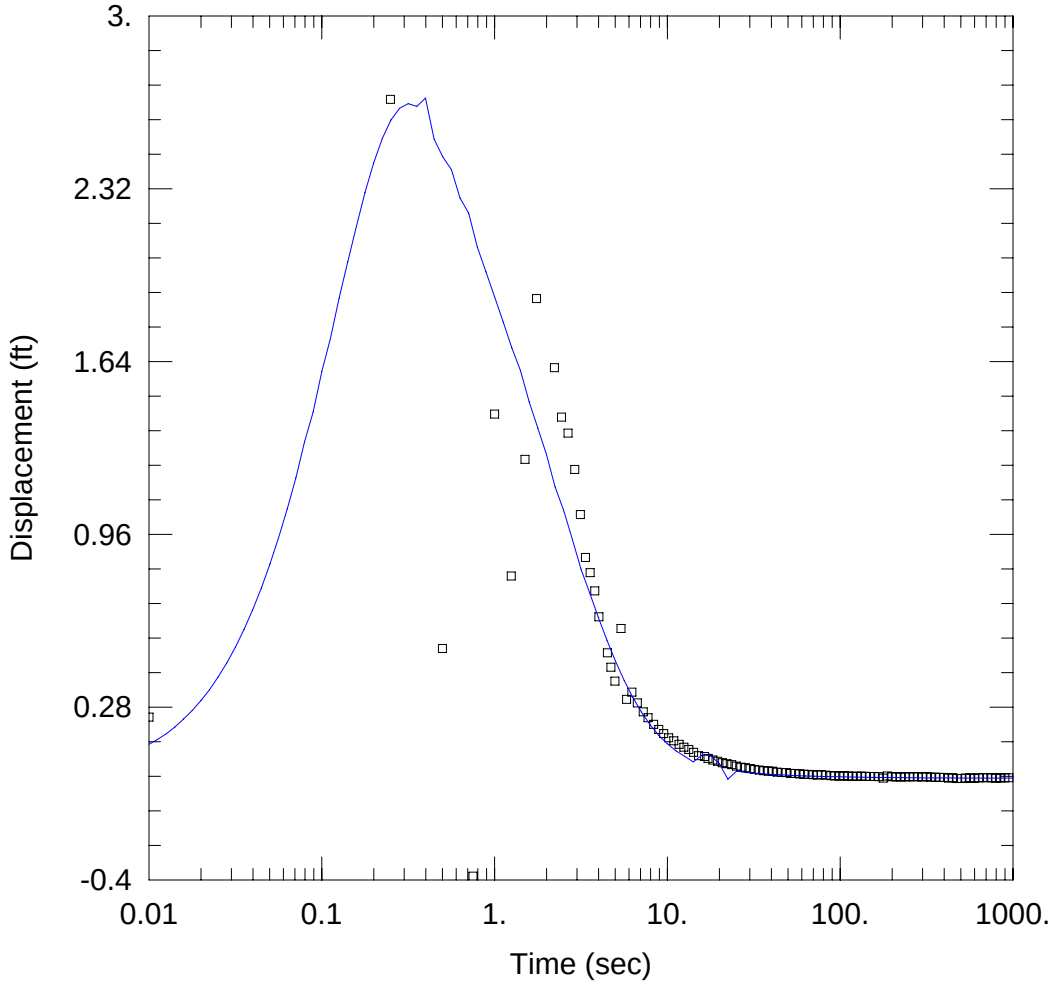
WELL DATA (KAFB 10610)

Initial Displacement: 3. ft
Total Well Penetration Depth: 20.86 ft
Casing Radius: 0.167 ft
Static Water Column Height: 23.36 ft
Screen Length: 20.86 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 116.7 ft/day y0 = 4.903 ft



KAFB10610OUT

Data Set: C:\...\KAFB10610OUT2-BZ[1].aqt
Date: 08/25/11 Time: 08:28:17

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10610
Test Date: 7/21/11

AQUIFER DATA

Saturated Thickness: 31.86 ft Anisotropy Ratio (Kz/Kr): 1.

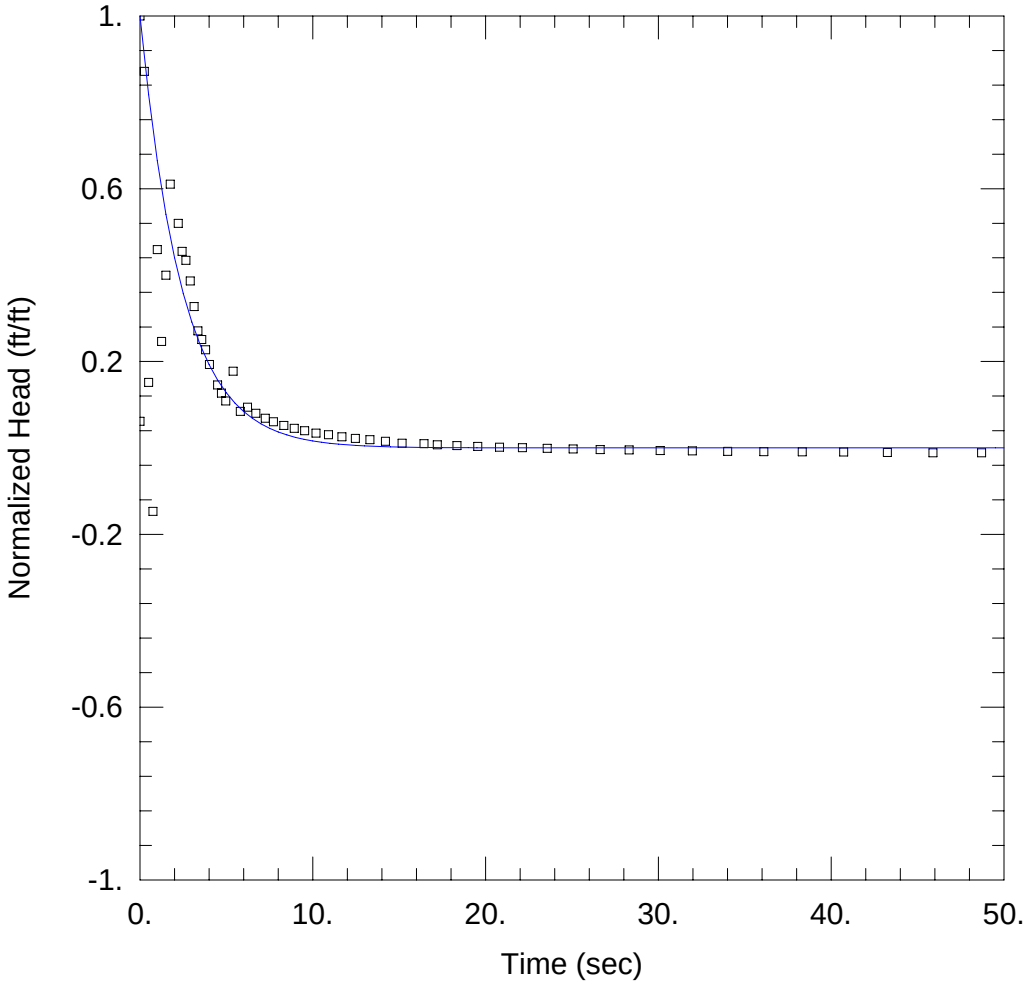
WELL DATA (KAFB 10610)

Initial Displacement: 2.815 ft
Total Well Penetration Depth: 20.86 ft
Casing Radius: 0.167 ft
Static Water Column Height: 23.36 ft
Screen Length: 20.86 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 102.4 ft/day
Kz/Kr = 1.
Ss = 1.514E-5 ft^{-1}
Le = 6.31 ft



KAFB10610OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10610OUT2-SG.aqt
Date: 08/25/11 Time: 08:27:09

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10610
Test Date: 7/21/11

AQUIFER DATA

Saturated Thickness: 31.86 ft
Anisotropy Ratio (Kz/Kr): 0.1

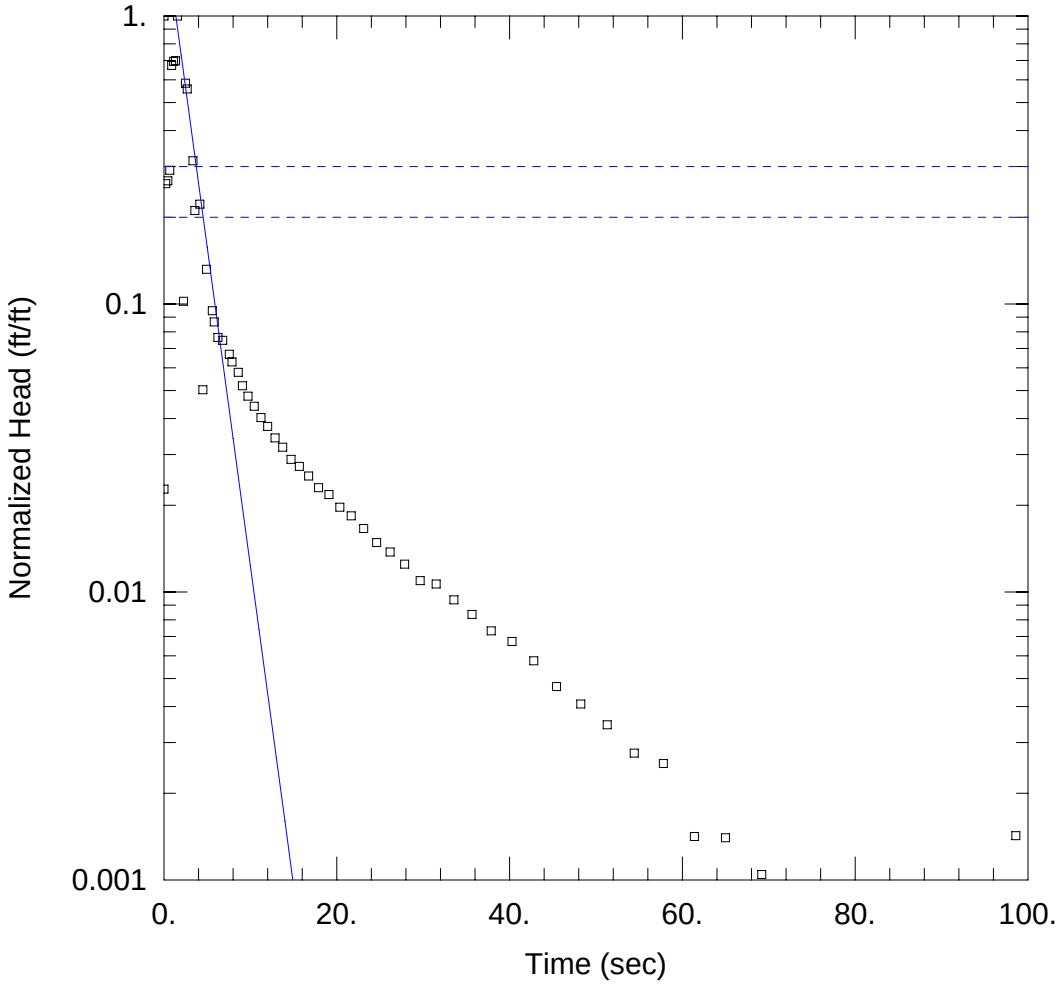
WELL DATA (KAFB 10610)

Initial Displacement: 3. ft
Total Well Penetration Depth: 20.86 ft
Casing Radius: 0.167 ft
Static Water Column Height: 23.36 ft
Screen Length: 20.86 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 104.1 ft/day
Le = 1. ft



KAFB10613IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10613IN-BR.aqt
Date: 08/24/11 Time: 09:29:45

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10613
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 19.66 ft
Anisotropy Ratio (Kz/Kr): 0.1

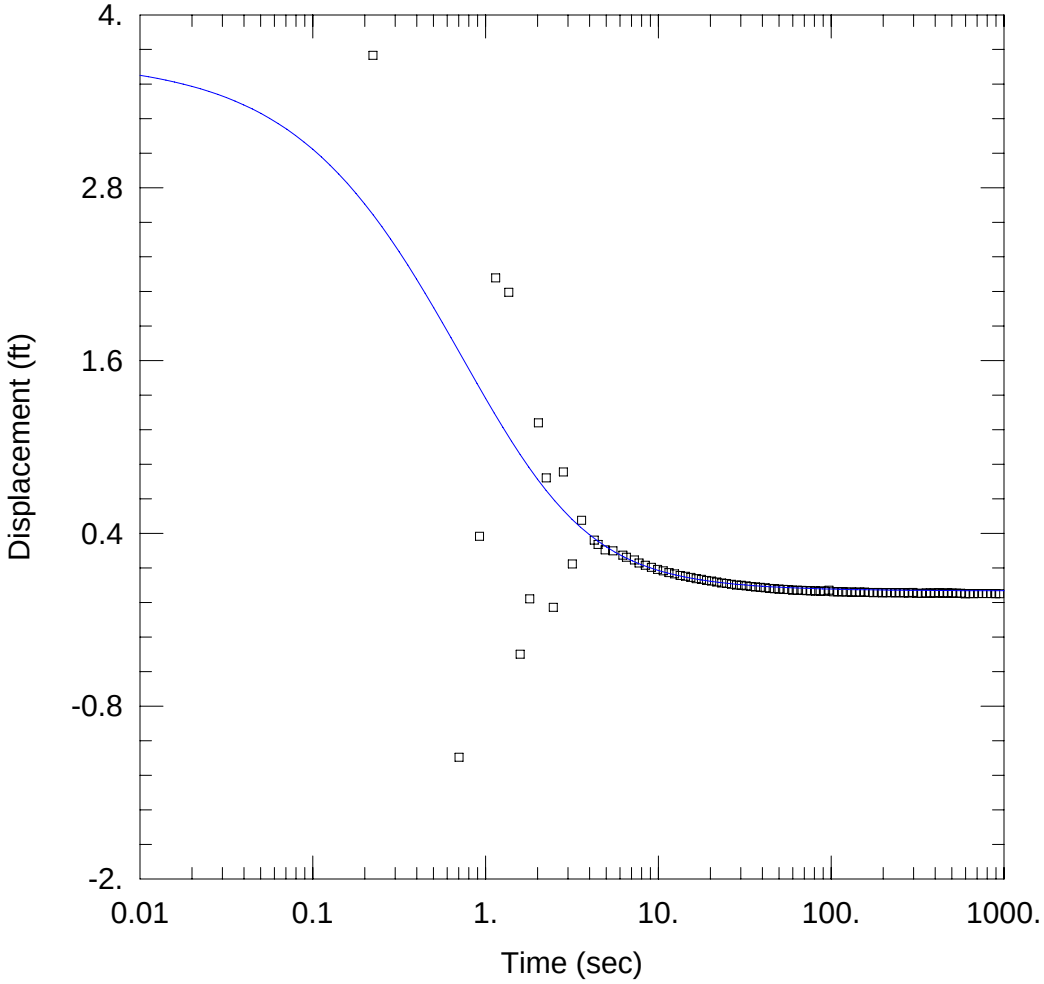
WELL DATA (KAFB10613)

Initial Displacement: 3.72 ft
Total Well Penetration Depth: 14.66 ft
Casing Radius: 0.167 ft
Static Water Column Height: 19.66 ft
Screen Length: 14.66 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 171.6 ft/day
y0 = 7.503 ft



KAFB10613IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10613IN-KGS.aqt
Date: 08/24/11 Time: 13:17:16

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10613
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 19.66 ft

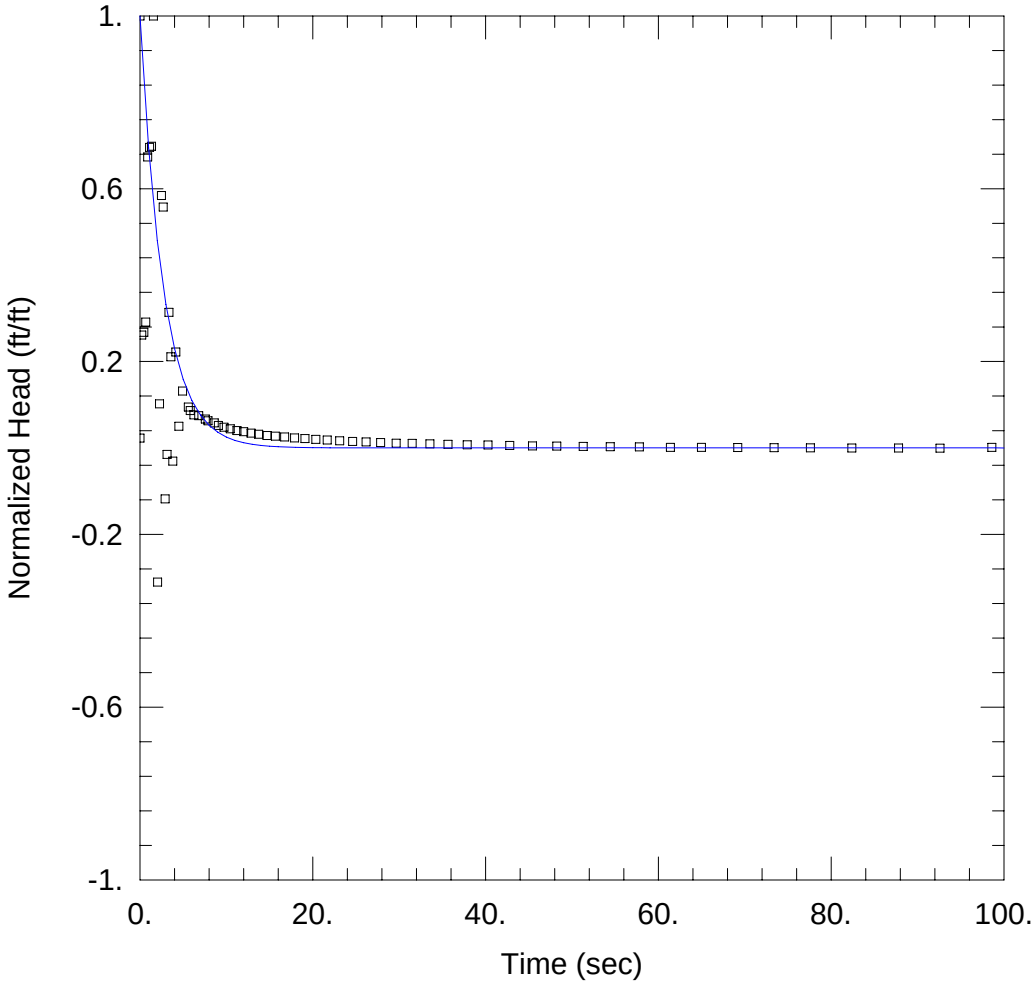
WELL DATA (KAFB10613)

Initial Displacement: 3.72 ft
Total Well Penetration Depth: 14.66 ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 19.66 ft
Screen Length: 14.66 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 120.4 ft/day
Kz/Kr = 0.001
Ss' = 0.001 ft^{-1}
Ss = 0.006026 ft^{-1}
Kr' = 178.6 ft/day
Kz/Kr' = 1.



KAFB10613IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10613IN-SG.aqt
Date: 08/24/11 Time: 09:30:25

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10613
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 19.66 ft
Anisotropy Ratio (Kz/Kr): 0.1

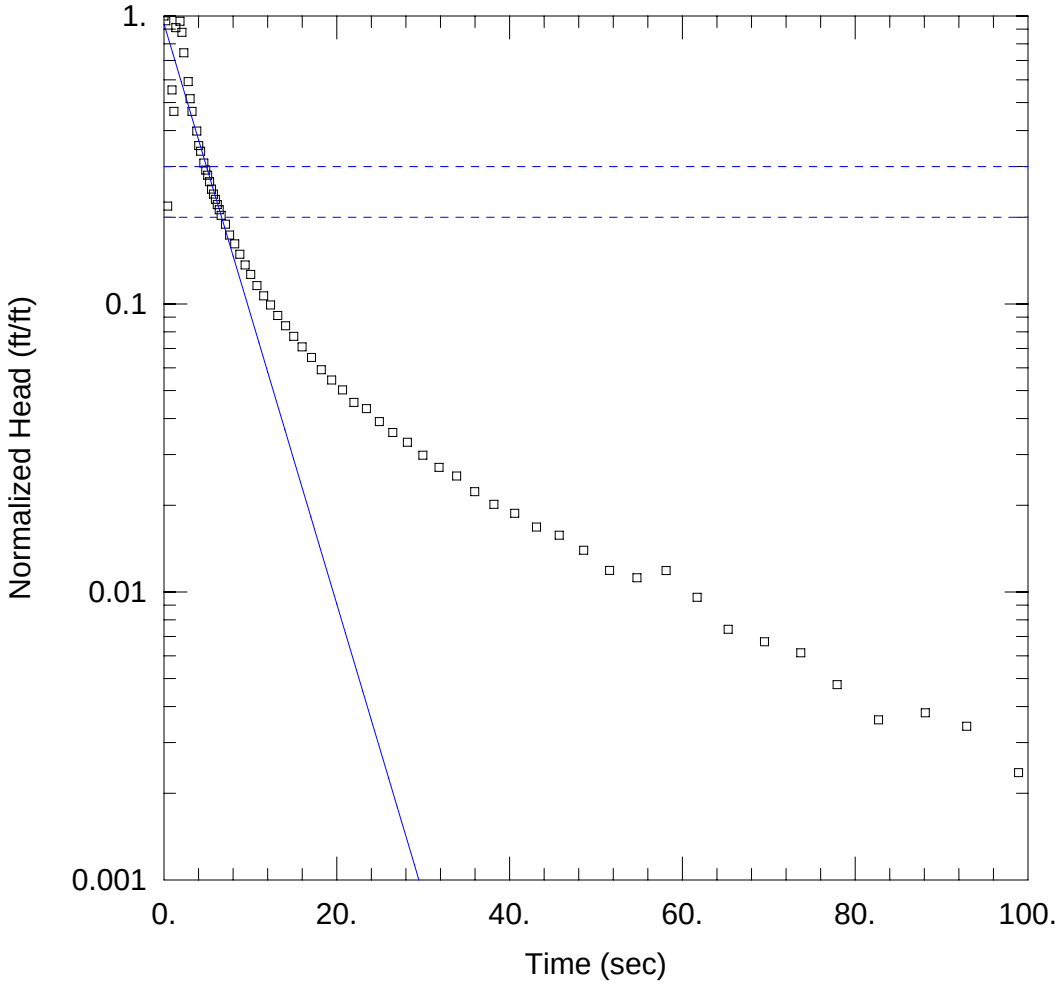
WELL DATA (KAFB10613)

Initial Displacement: 3.72 ft
Total Well Penetration Depth: 14.66 ft
Casing Radius: 0.167 ft
Static Water Column Height: 19.66 ft
Screen Length: 14.66 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 123.7 ft/day
Le = 1. ft



KAFB10613OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10613OUT-BR.aqt
Date: 08/24/11 Time: 09:28:09

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10613
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 19.66 ft
Anisotropy Ratio (Kz/Kr): 0.1

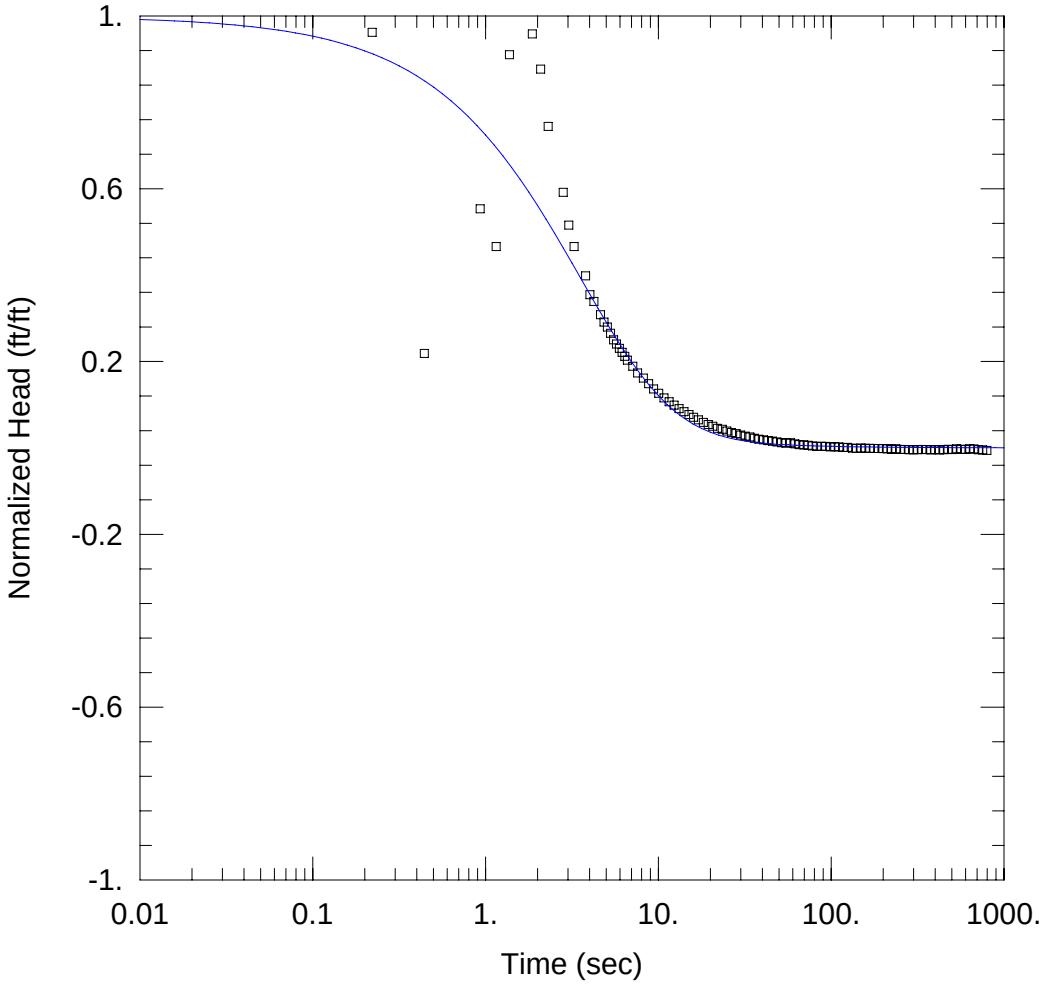
WELL DATA (KAFB10613)

Initial Displacement: 1.785 ft
Total Well Penetration Depth: 14.66 ft
Casing Radius: 0.167 ft
Static Water Column Height: 19.66 ft
Screen Length: 14.66 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 78.05 ft/day
y0 = 1.675 ft



KAFB10613OUT

Data Set: C:\...\KAFB10613OUT-KGS[1].aqt
Date: 08/24/11 Time: 09:25:55

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10613
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 19.66 ft

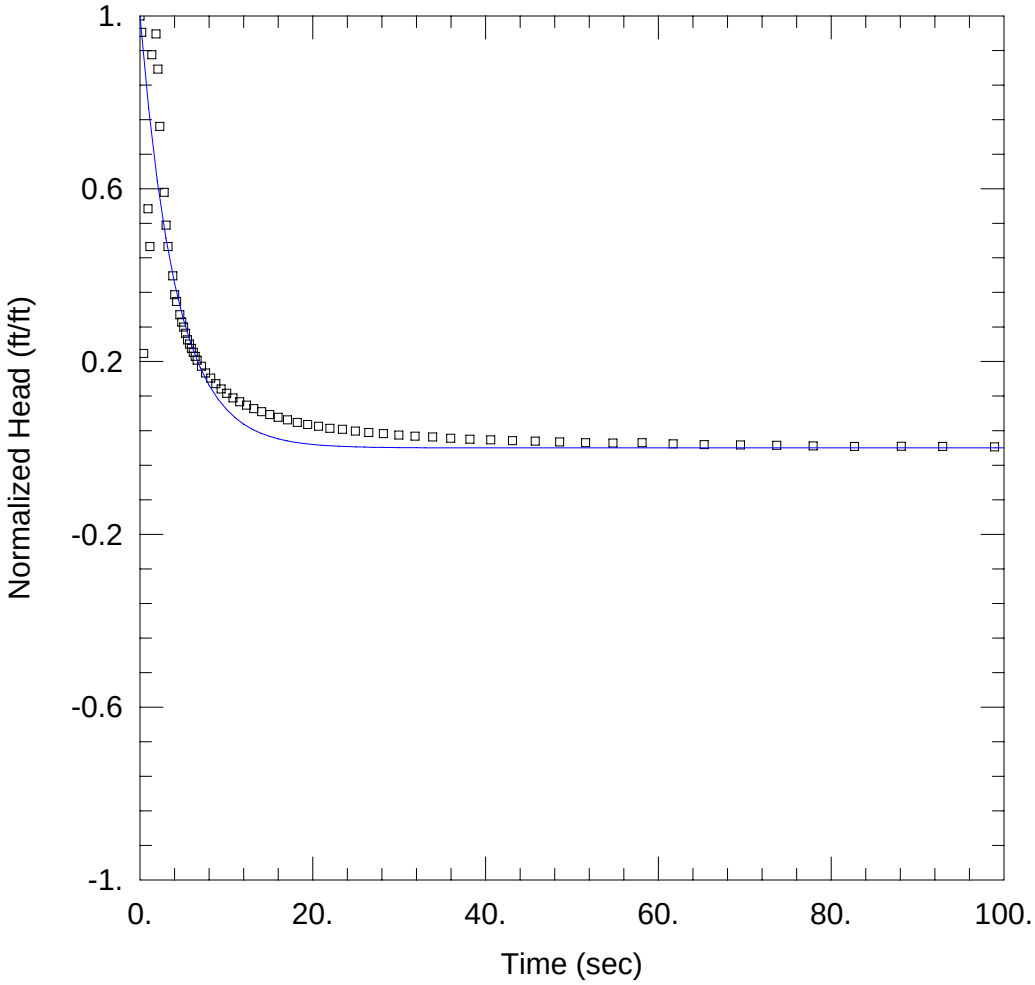
WELL DATA (KAFB10613)

Initial Displacement: 1.785 ft
Total Well Penetration Depth: 14.66 ft
Casing Radius: 0.167 ft
Static Water Column Height: 19.66 ft
Screen Length: 14.66 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 91.58 ft/day
Kz/Kr = 0.1
Ss = 3.846E-5 ft^{-1}



KAFB10613OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10613OUT-SG.aqt
Date: 08/24/11 Time: 09:29:13

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10613
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 19.66 ft
Anisotropy Ratio (Kz/Kr): 0.1

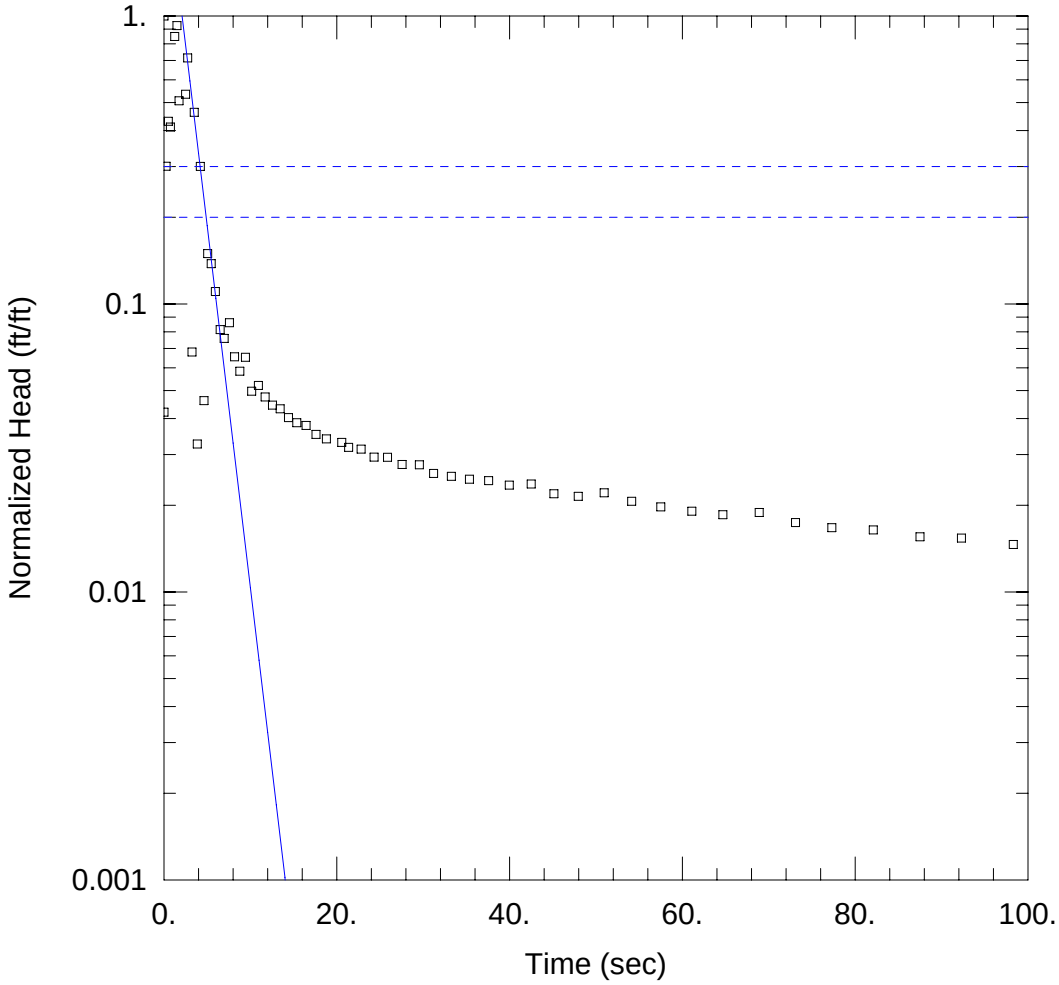
WELL DATA (KAFB10613)

Initial Displacement: 1.785 ft
Total Well Penetration Depth: 14.66 ft
Casing Radius: 0.167 ft
Static Water Column Height: 19.66 ft
Screen Length: 14.66 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 81.2 ft/day
Le = 1. ft



KAFB10617IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10617IN-BR.aqt
Date: 08/25/11 Time: 08:34:38

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10617
Test Date: 7/20/11

AQUIFER DATA

Saturated Thickness: 28.95 ft
Anisotropy Ratio (Kz/Kr): 0.1

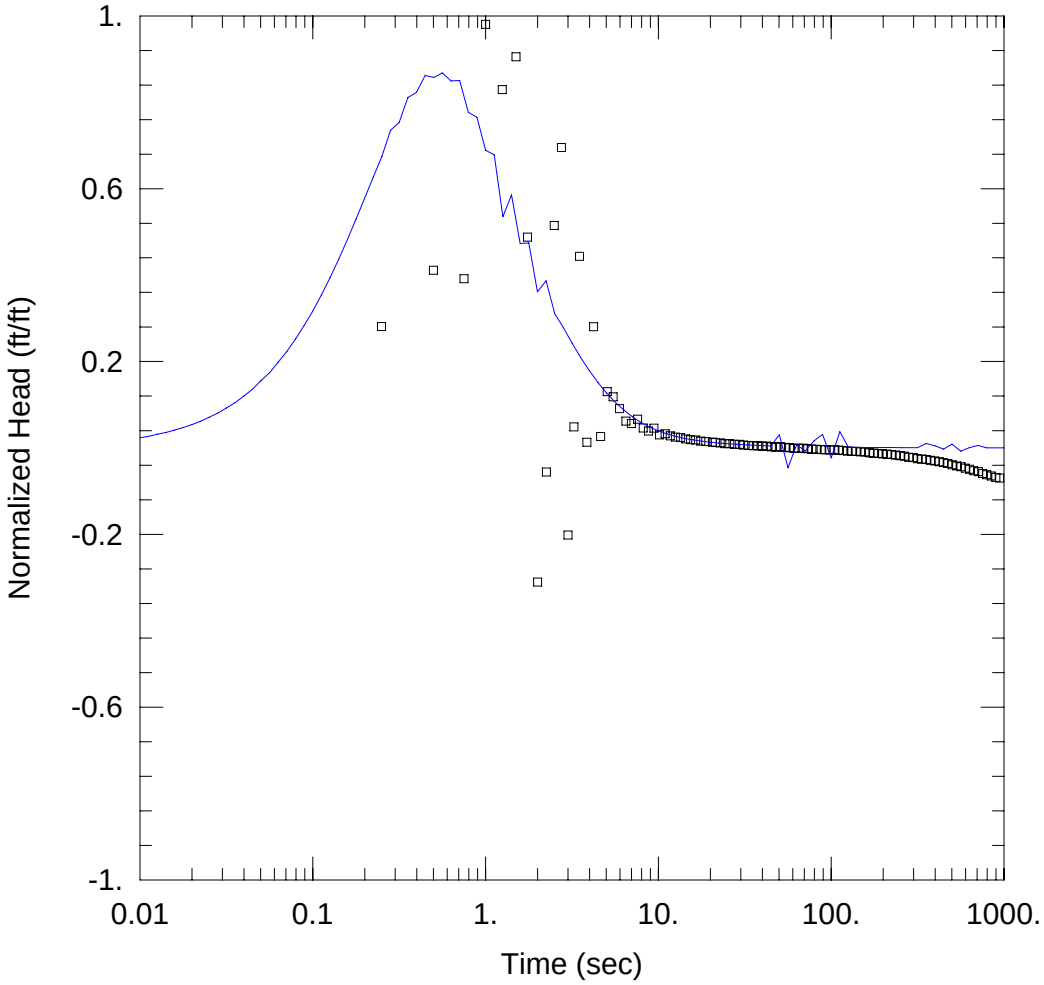
WELL DATA (KAFB10617)

Initial Displacement: 3.592 ft
Total Well Penetration Depth: 20.95 ft
Casing Radius: 0.167 ft
Static Water Column Height: 25.95 ft
Screen Length: 20.95 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 147. ft/day
y0 = 12.12 ft



KAFB10617IN

Data Set: C:\...\KAFB10617IN-BZ[1].aqt
Date: 08/25/11 Time: 08:41:58

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10617
Test Date: 7/20/11

AQUIFER DATA

Saturated Thickness: 28.95 ft Anisotropy Ratio (Kz/Kr): 0.003589

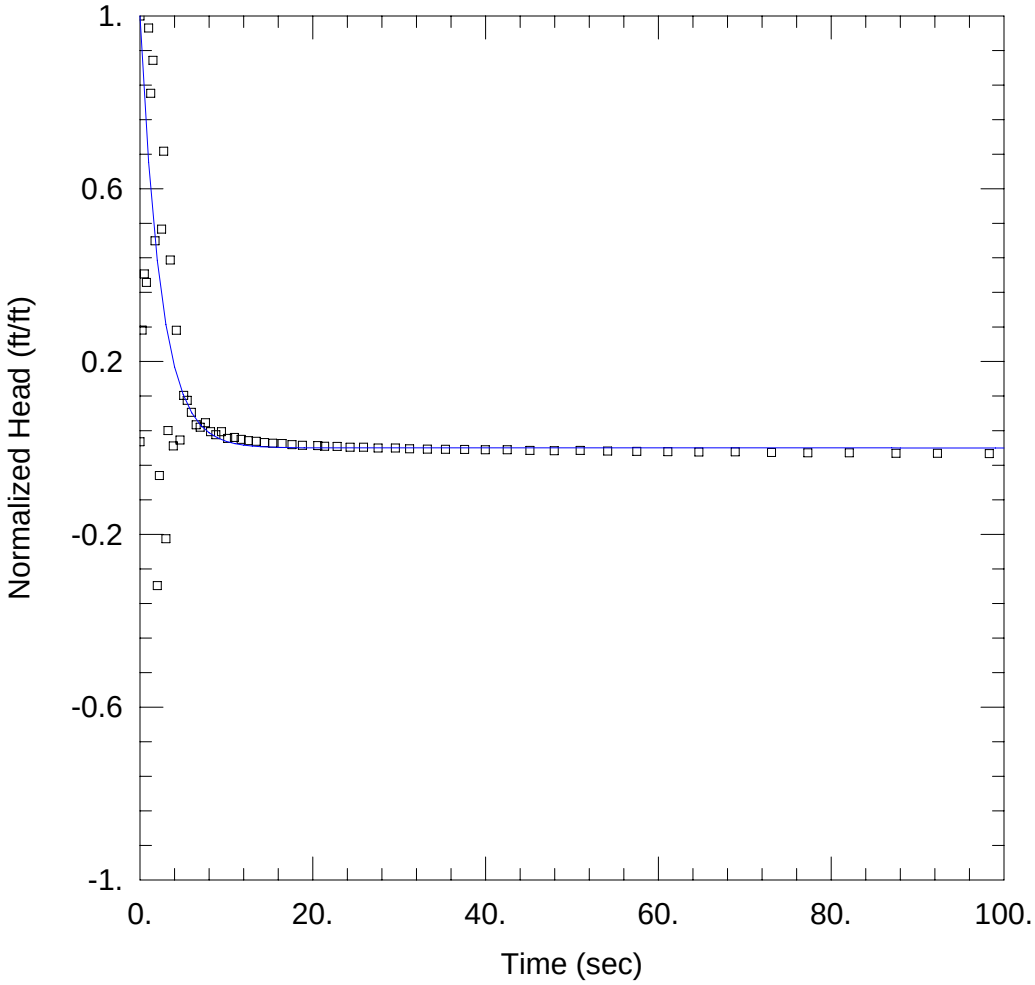
WELL DATA (KAFB10617)

Initial Displacement: 3.592 ft
Total Well Penetration Depth: 20.95 ft
Casing Radius: 0.167 ft
Static Water Column Height: 25.95 ft
Screen Length: 20.95 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined Solution Method: Butler-Zhan

Kr = 137. ft/day
Kz/Kr = 0.003589
Ss = 1.161E-5 ft^{-1}
Le = 10.96 ft



KAFB10617IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10617IN-SG.aqt
Date: 08/25/11 Time: 08:35:21

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10617
Test Date: 7/20/11

AQUIFER DATA

Saturated Thickness: 28.95 ft
Anisotropy Ratio (Kz/Kr): 0.1

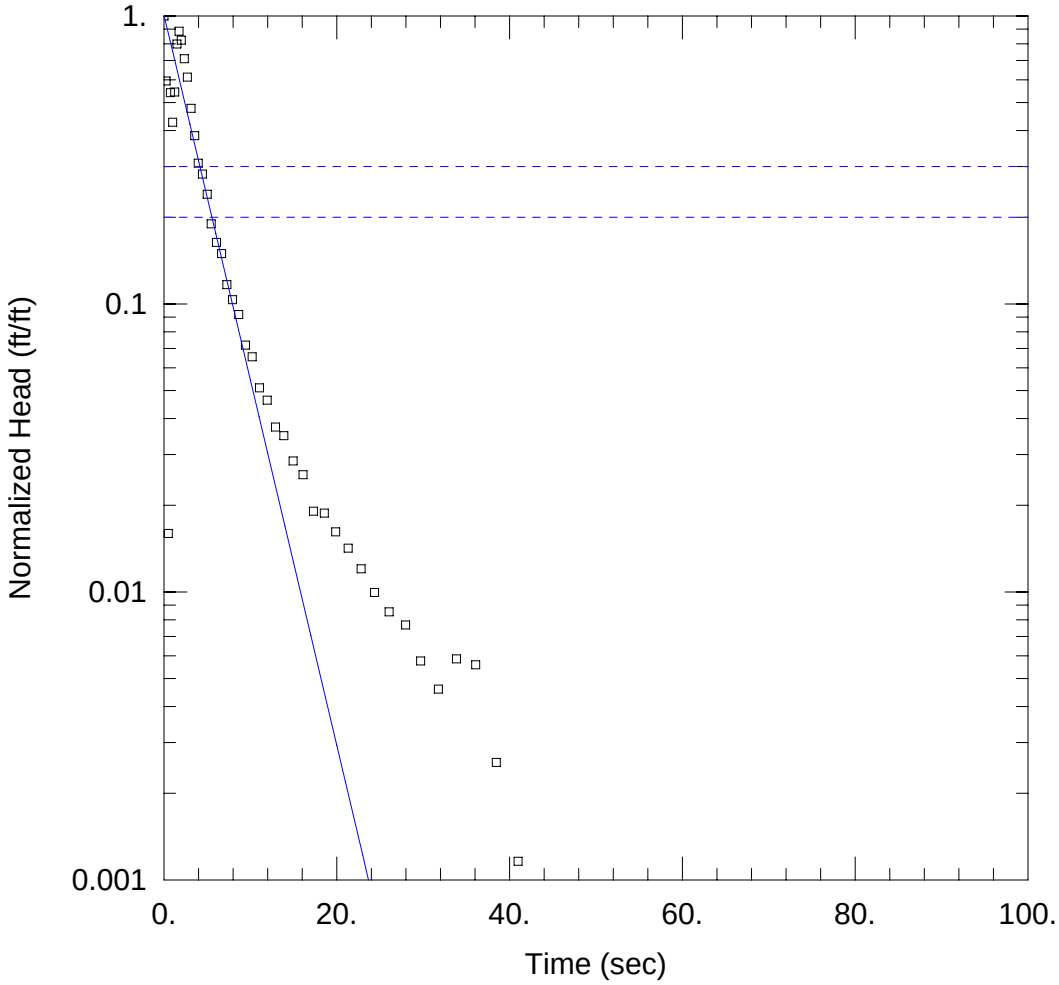
WELL DATA (KAFB10617)

Initial Displacement: 3.592 ft
Total Well Penetration Depth: 20.95 ft
Casing Radius: 0.167 ft
Static Water Column Height: 25.95 ft
Screen Length: 20.95 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 106.1 ft/day
Le = 1. ft



KAFB10617OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10617OUT-BR.aqt
Date: 08/25/11 Time: 08:36:09

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10617
Test Date: 7/20/11

AQUIFER DATA

Saturated Thickness: 28.95 ft
Anisotropy Ratio (Kz/Kr): 0.1

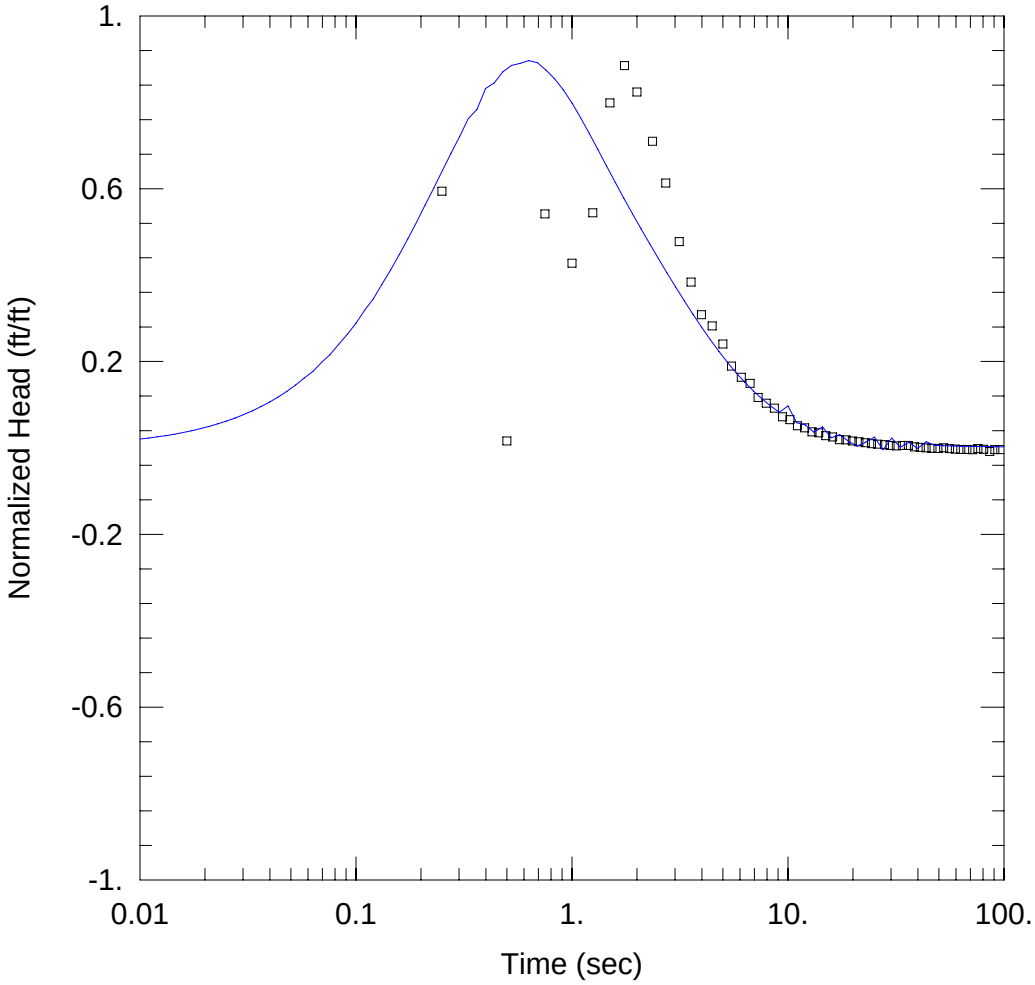
WELL DATA (KAFB10617)

Initial Displacement: 2.075 ft
Total Well Penetration Depth: 20.95 ft
Casing Radius: 0.167 ft
Static Water Column Height: 25.95 ft
Screen Length: 20.95 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 74.17 ft/day
y0 = 2.096 ft



KAFB10617OUT

Data Set: C:\...\KAFB10617OUT-BZ[1].aqt
Date: 08/25/11 Time: 08:45:22

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10617
Test Date: 7/20/11

AQUIFER DATA

Saturated Thickness: 28.95 ft Anisotropy Ratio (Kz/Kr): 0.1259

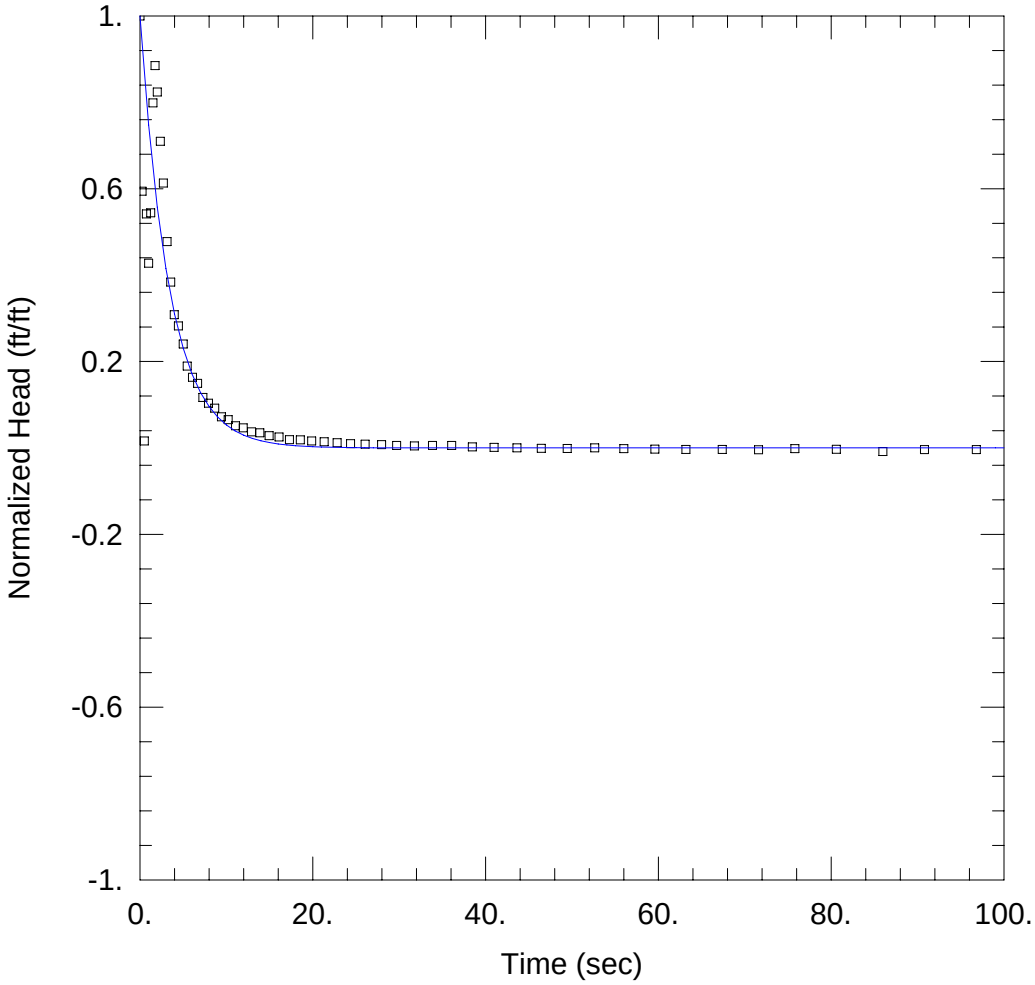
WELL DATA (KAFB10617)

Initial Displacement: 2.075 ft
Total Well Penetration Depth: 20.95 ft
Casing Radius: 0.167 ft
Static Water Column Height: 25.95 ft
Screen Length: 20.95 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined Solution Method: Butler-Zhan

Kr = 91.8 ft/day Ss = 1.365E-5 ft^{-1}
Kz/Kr = 0.1259 Le = 16.6 ft



KAFB10617OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10617OUT-SG.aqt
Date: 08/25/11 Time: 08:36:48

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10617
Test Date: 7/20/11

AQUIFER DATA

Saturated Thickness: 28.95 ft
Anisotropy Ratio (Kz/Kr): 0.1

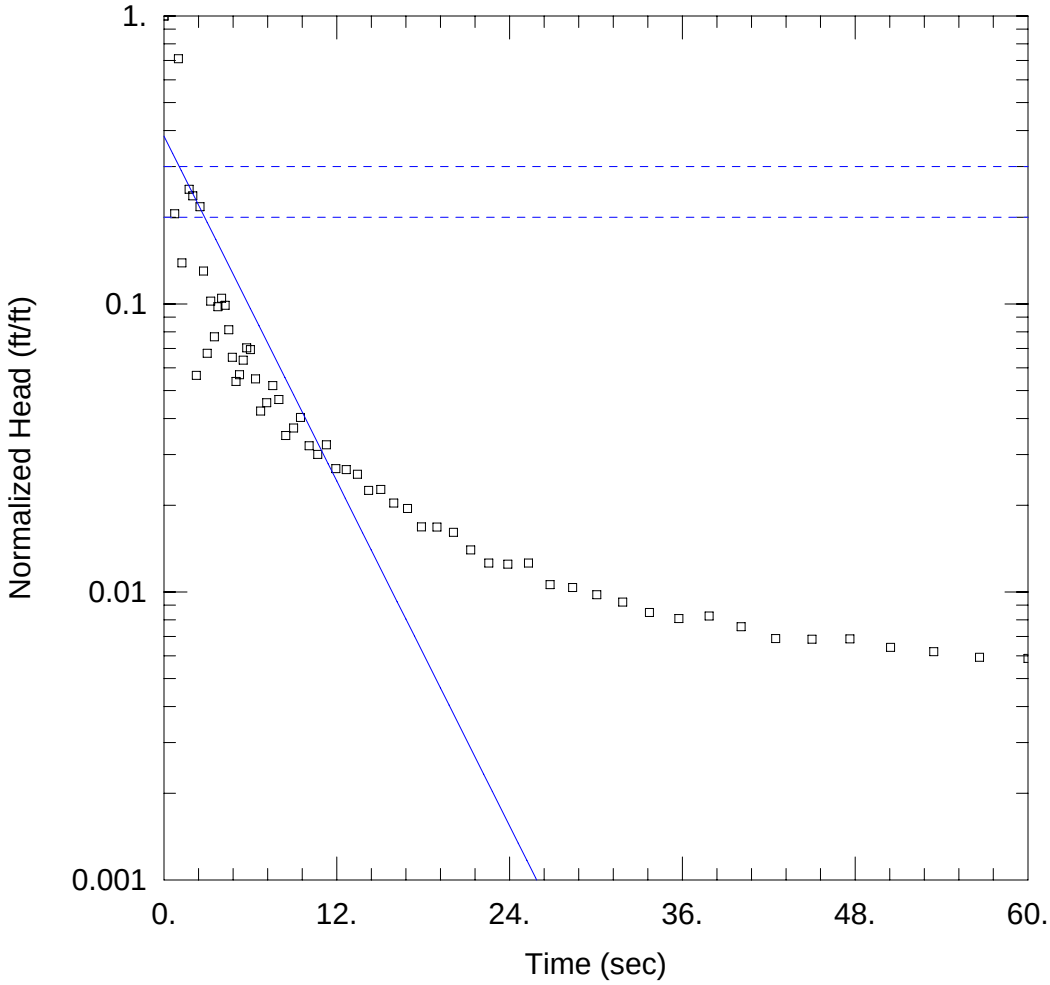
WELL DATA (KAFB10617)

Initial Displacement: 2.075 ft
Total Well Penetration Depth: 20.95 ft
Casing Radius: 0.167 ft
Static Water Column Height: 25.95 ft
Screen Length: 20.95 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 74.45 ft/day
Le = 1. ft



KAFB 10618 IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10618IN-BR.aqt
Date: 08/25/11 Time: 08:49:45

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10618
Test Date: 7/19/11

AQUIFER DATA

Saturated Thickness: 43.18 ft Anisotropy Ratio (Kz/Kr): 0.1

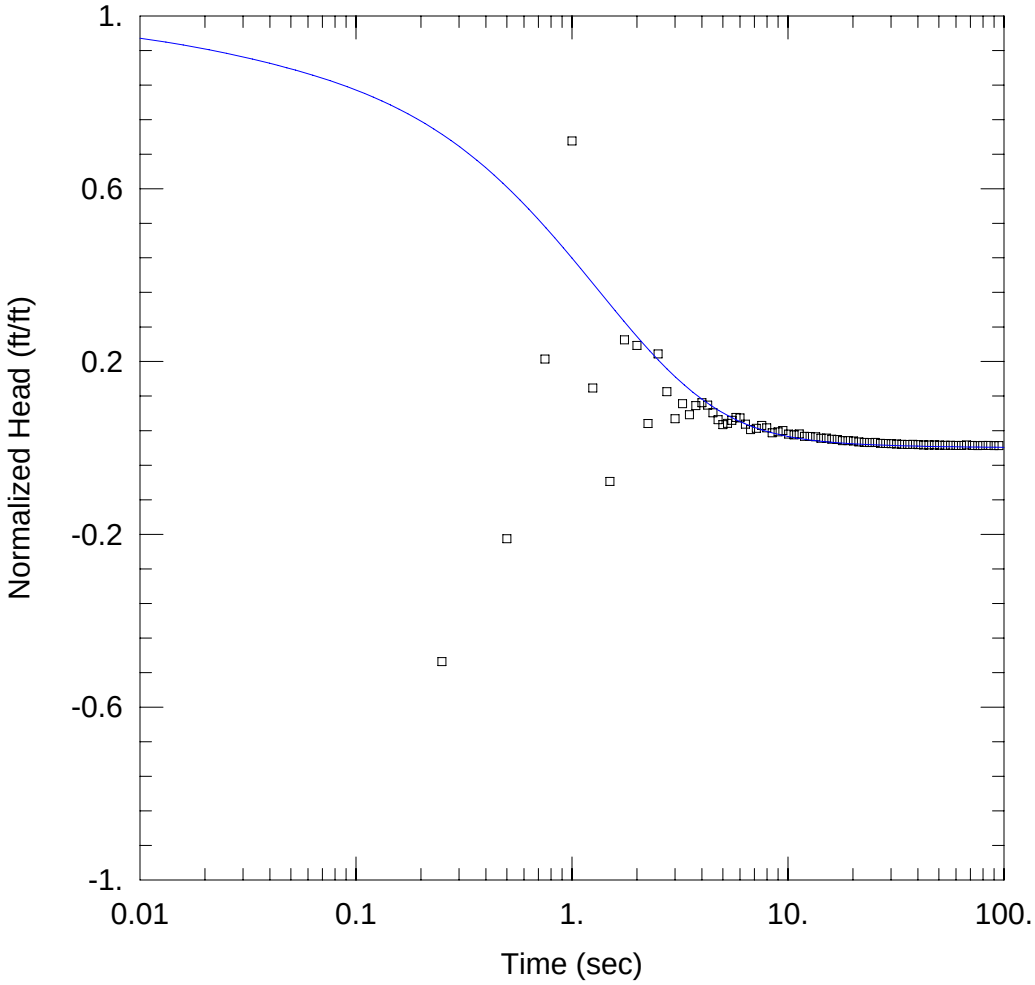
WELL DATA (KAFB 10618)

Initial Displacement: 3.762 ft
Total Well Penetration Depth: 24.18 ft
Casing Radius: 0.167 ft
Static Water Column Height: 29.18 ft
Screen Length: 24.18 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 51.42 ft/day y0 = 1.439 ft



KAFB 10618 IN

Data Set: C:\...\KAFB10618IN-KSG[2].aqt
Date: 08/25/11 Time: 08:54:28

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10618
Test Date: 7/19/11

AQUIFER DATA

Saturated Thickness: 43.18 ft

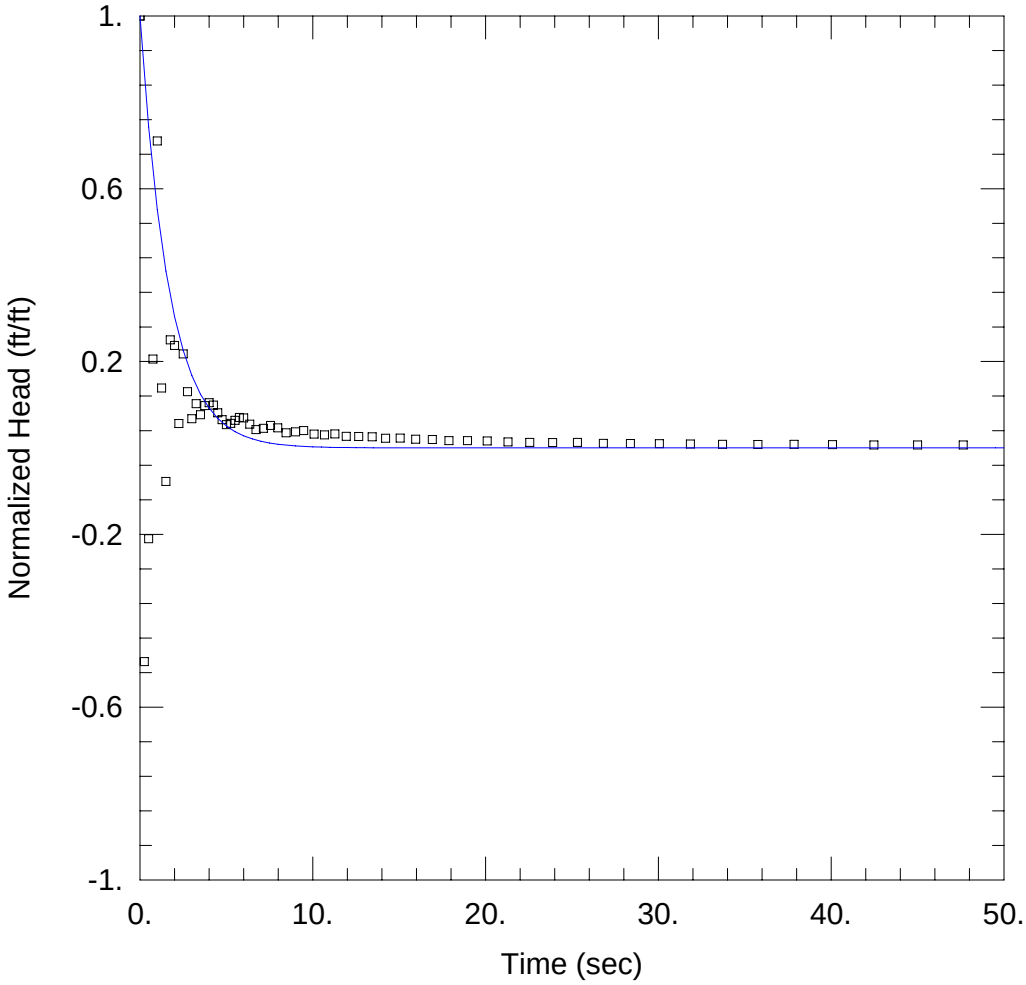
WELL DATA (KAFB 10618)

Initial Displacement: 3.762 ft
Total Well Penetration Depth: 24.18 ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 29.18 ft
Screen Length: 24.18 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 137.2 ft/day
Kz/Kr = 0.09886
Ss' = 0.001 ft^{-1}
Ss = 7.943E-5 ft^{-1}
Kr' = 137.2 ft/day
Kz/Kr' = 1.



KAFB 10618 IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10618IN-SG.aqt
Date: 08/25/11 Time: 08:50:41

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10618
Test Date: 7/19/11

AQUIFER DATA

Saturated Thickness: 43.18 ft
Anisotropy Ratio (Kz/Kr): 0.1

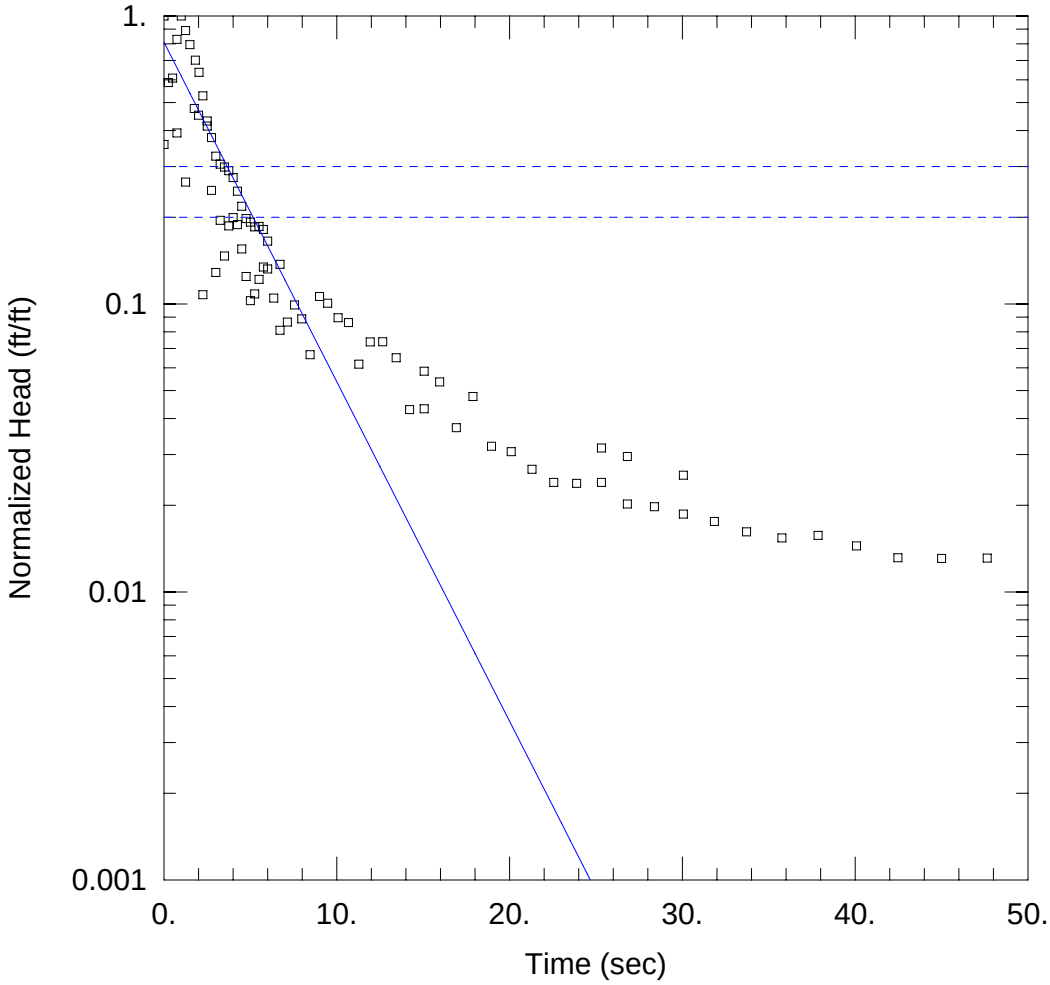
WELL DATA (KAFB 10618)

Initial Displacement: 3.762 ft
Total Well Penetration Depth: 24.18 ft
Casing Radius: 0.167 ft
Static Water Column Height: 29.18 ft
Screen Length: 24.18 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 133.4 ft/day
Le = 0.1 ft



KAFB 10618 OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10618OUT2-BR.aqt
Date: 08/25/11 Time: 08:52:22

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10618
Test Date: 7/19/11

AQUIFER DATA

Saturated Thickness: 43.18 ft Anisotropy Ratio (Kz/Kr): 0.1

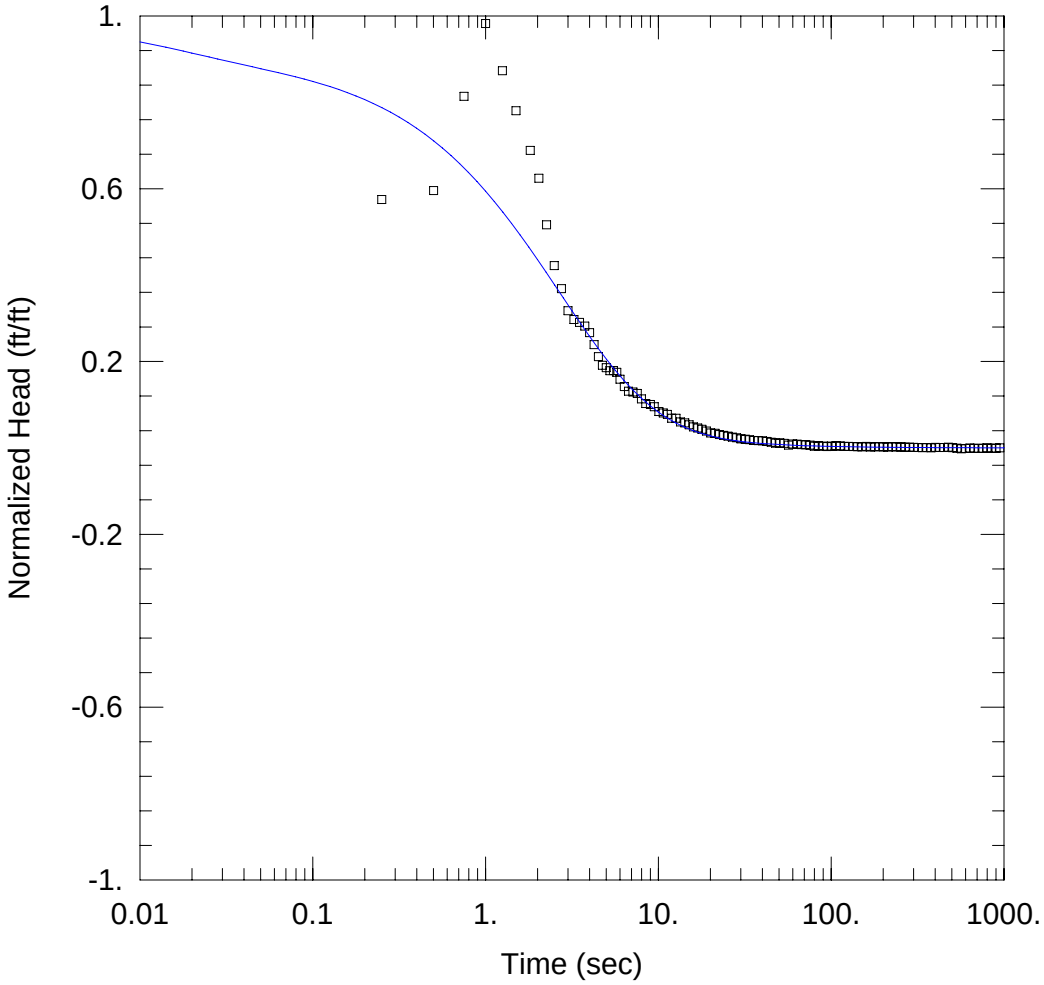
WELL DATA (KAFB 10618)

Initial Displacement: 1.973 ft Static Water Column Height: 29.18 ft
Total Well Penetration Depth: 24.18 ft Screen Length: 24.18 ft
Casing Radius: 0.156 ft Well Radius: 0.156 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 53.8 ft/day y0 = 1.598 ft



WELL TEST ANALYSIS

Data Set: C:\...\KAFB10618out_KGS[1].aqt
Date: 08/25/11 Time: 08:55:31

PROJECT INFORMATION

Company: Shaw Environmental, Inc.
Location: Kirtland AFB
Test Date: 7/19/11

AQUIFER DATA

Saturated Thickness: 43.18 ft

WELL DATA (10618)

Initial Displacement: 2. ft
Total Well Penetration Depth: 24.18 ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.413 ft

Static Water Column Height: 29.18 ft
Screen Length: 24.18 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

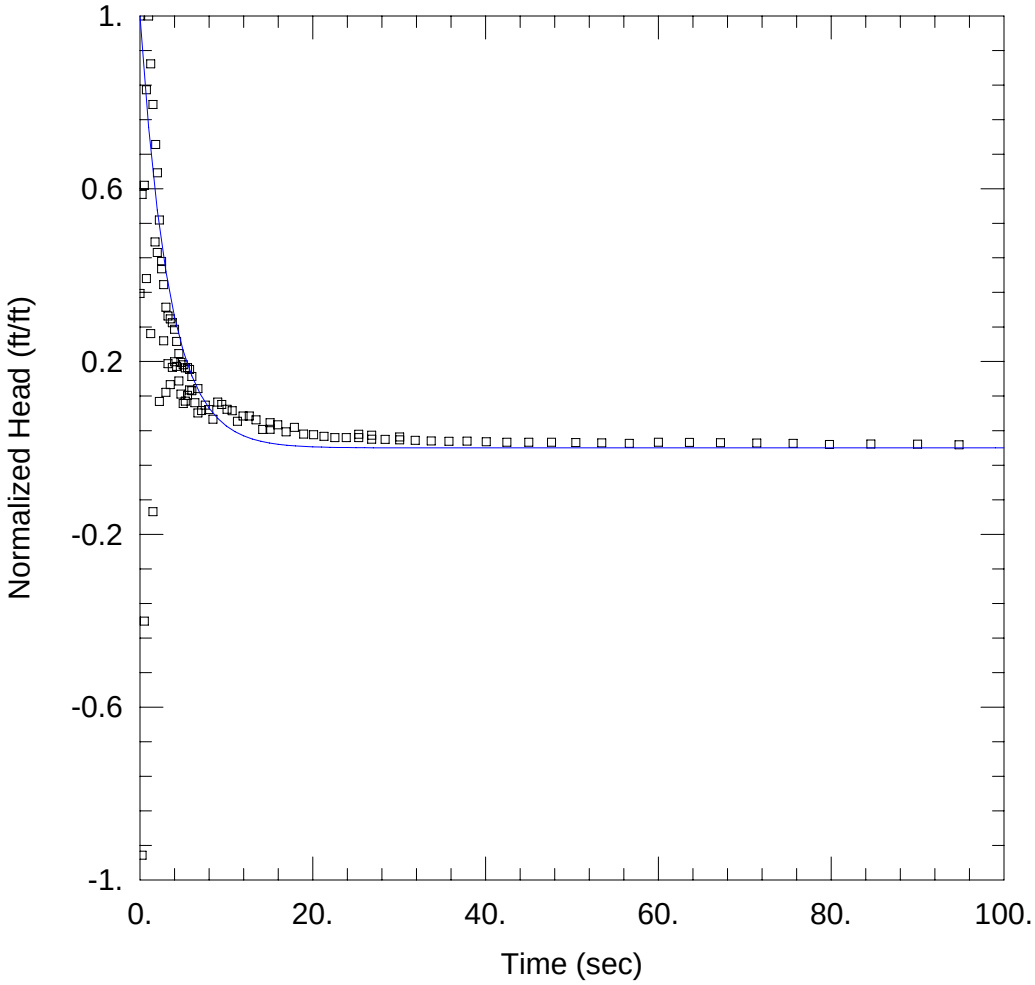
SOLUTION

Aquifer Model: Confined

Kr = 67.73 ft/day
Kz/Kr = 0.01259
Ss' = 0.001 ft^{-1}

Solution Method: KGS Model w/skin

Ss = 2.818E-5 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB 10618 OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10618OUT2-SG.aqt
Date: 08/25/11 Time: 08:53:12

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10618
Test Date: 7/19/11

AQUIFER DATA

Saturated Thickness: 43.18 ft Anisotropy Ratio (Kz/Kr): 0.1

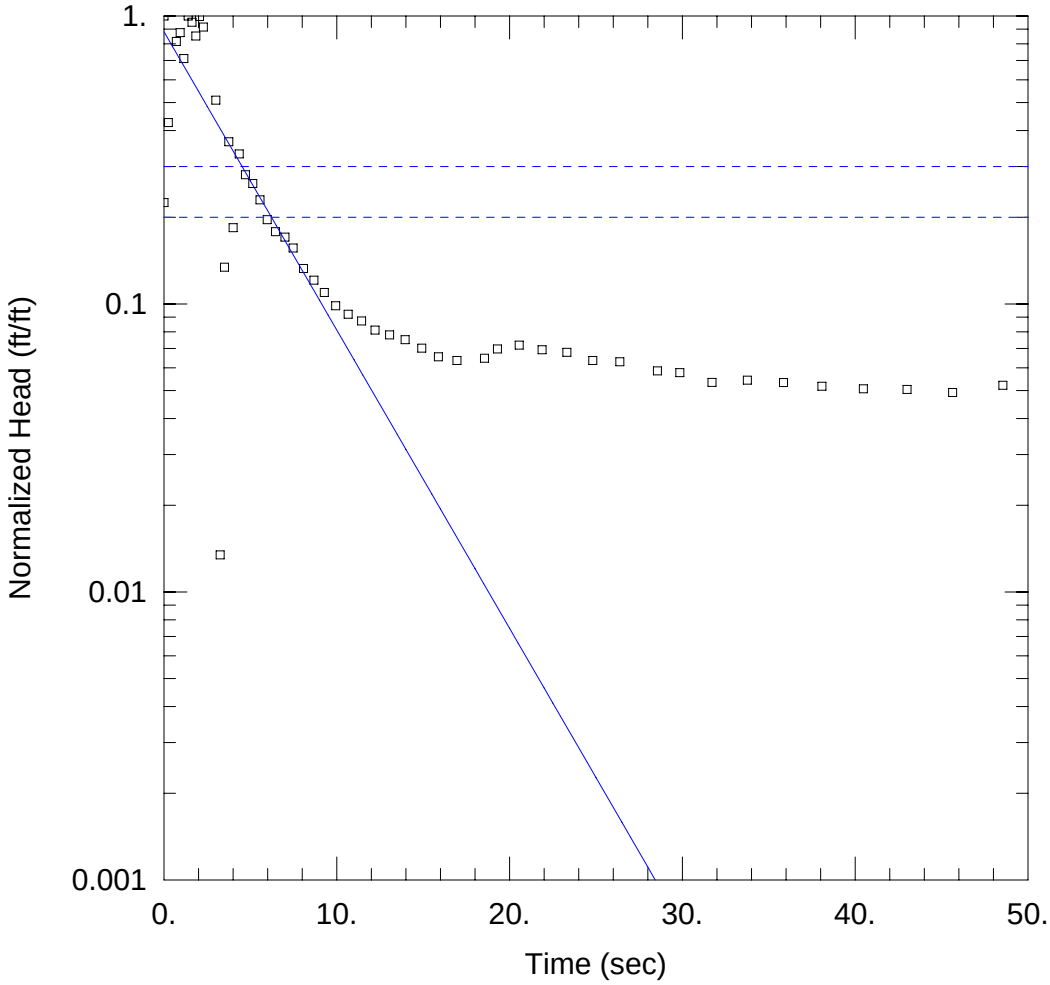
WELL DATA (KAFB 10618)

Initial Displacement: 1.973 ft Static Water Column Height: 29.18 ft
Total Well Penetration Depth: 24.18 ft Screen Length: 24.18 ft
Casing Radius: 0.156 ft Well Radius: 0.156 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Springer-Gelhar

K = 59.19 ft/day Le = 0.01 ft



KAFB10619IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10619IN-BR.aqt
Date: 08/25/11 Time: 09:03:14

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10619
Test Date: 7/20/11

AQUIFER DATA

Saturated Thickness: 29.68 ft
Anisotropy Ratio (Kz/Kr): 0.1

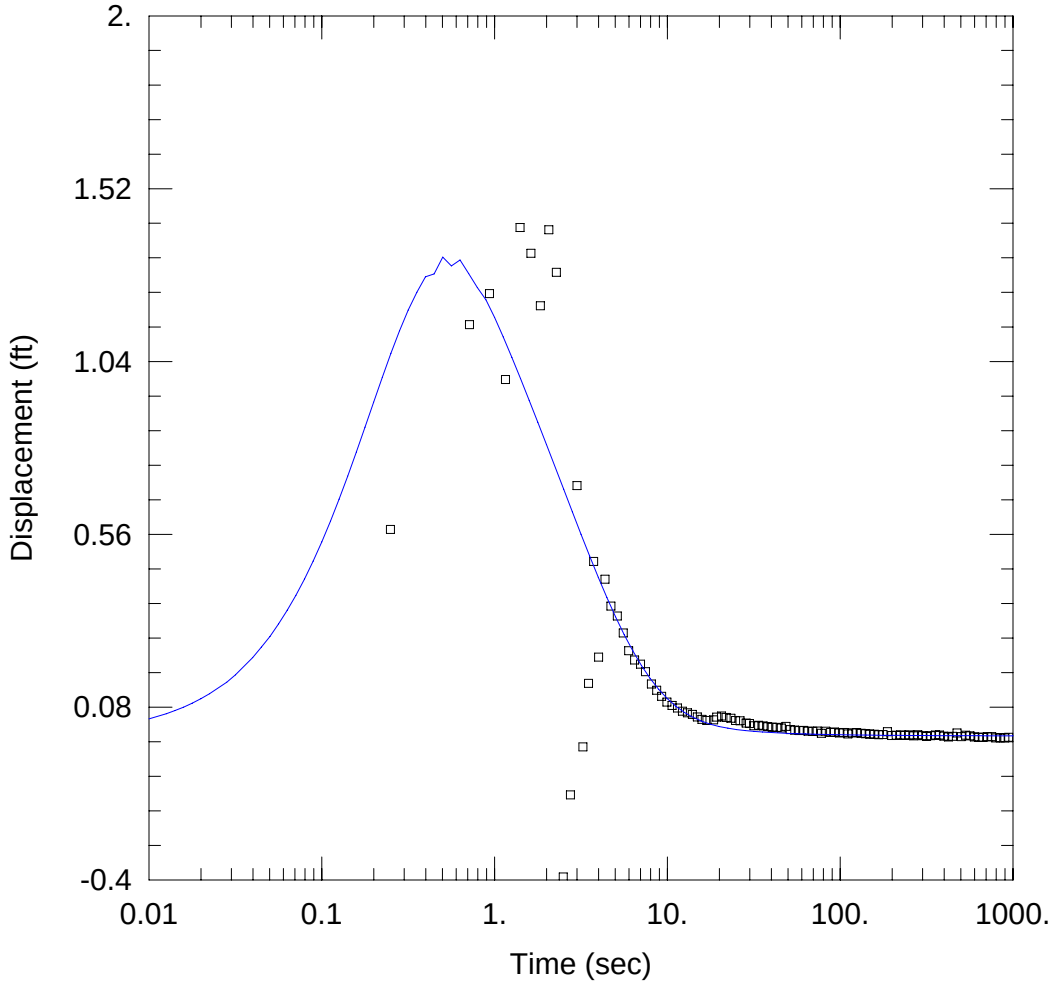
WELL DATA (10619)

Initial Displacement: 1.462 ft
Total Well Penetration Depth: 22.68 ft
Casing Radius: 0.167 ft
Static Water Column Height: 27.68 ft
Screen Length: 22.68 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 57.17 ft/day
y0 = 1.288 ft



KAFB10619IN

Data Set: C:\...\KAFB10619IN-BZ[1].aqt
Date: 08/25/11 Time: 09:07:48

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10619
Test Date: 7/20/11

AQUIFER DATA

Saturated Thickness: 29.68 ft
Anisotropy Ratio (Kz/Kr): 0.09886

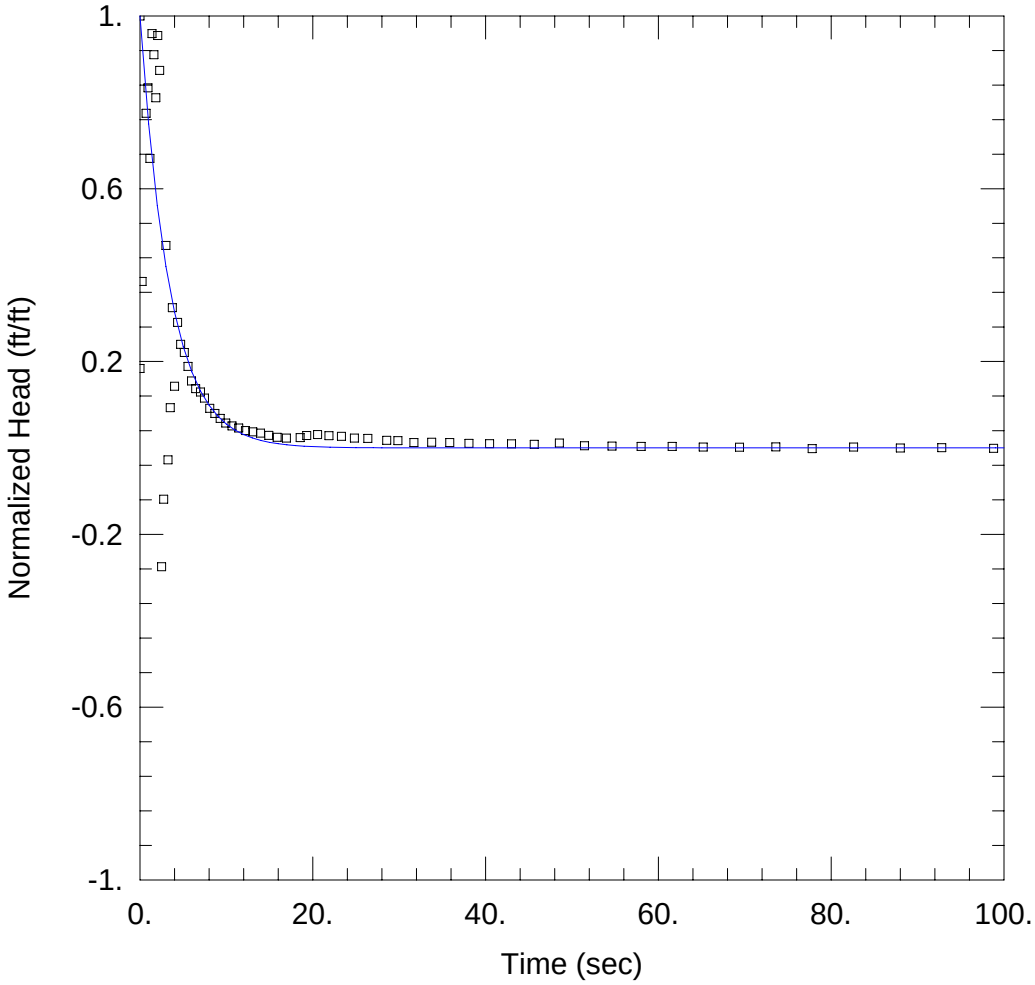
WELL DATA (10619)

Initial Displacement: 1.462 ft
Total Well Penetration Depth: 22.68 ft
Casing Radius: 0.167 ft
Static Water Column Height: 27.68 ft
Screen Length: 22.68 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 99.11 ft/day
Kz/Kr = 0.09886
Ss = 7.943E-7 ft^{-1}
Le = 15.85 ft



KAFB10619IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10619IN-SG.aqt
Date: 08/25/11 Time: 09:02:36

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10619
Test Date: 7/20/11

AQUIFER DATA

Saturated Thickness: 29.68 ft
Anisotropy Ratio (Kz/Kr): 0.1

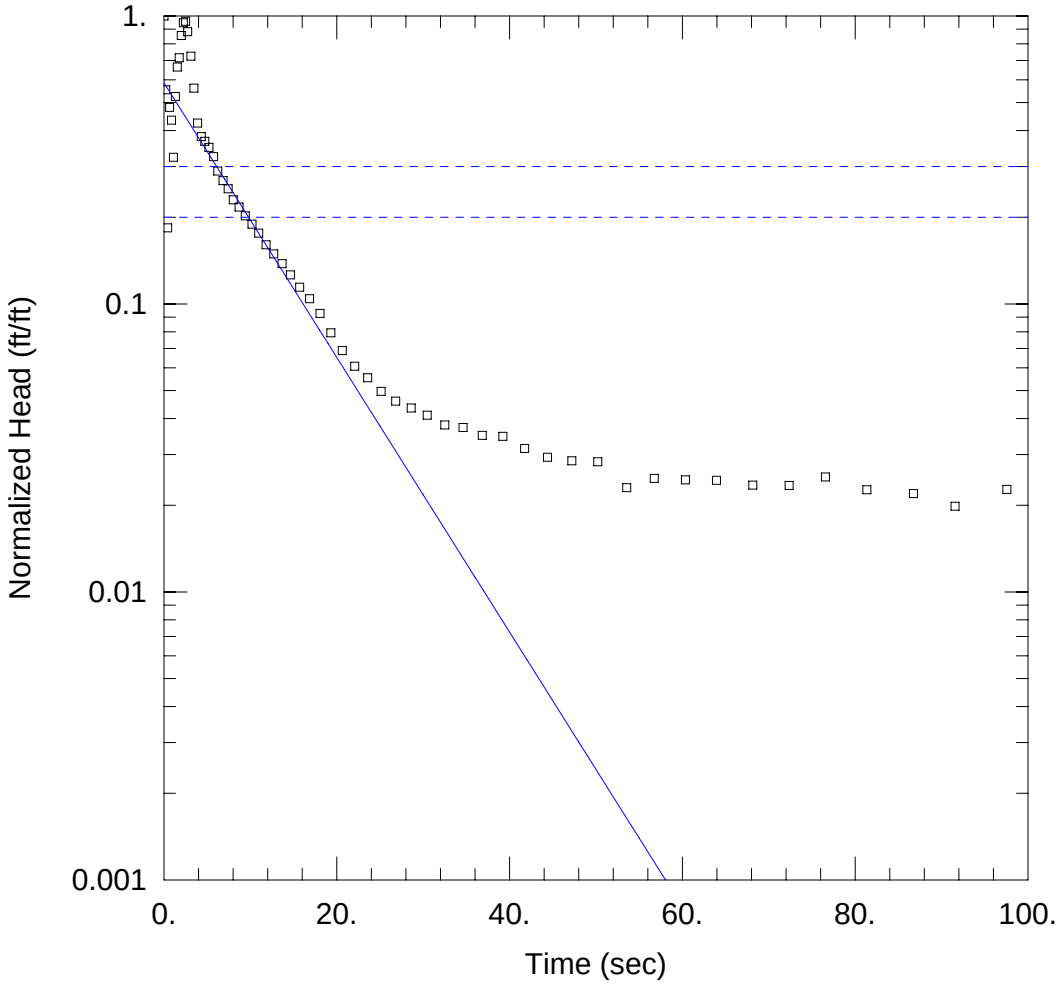
WELL DATA (10619)

Initial Displacement: 1.462 ft
Total Well Penetration Depth: 22.68 ft
Casing Radius: 0.167 ft
Static Water Column Height: 27.68 ft
Screen Length: 22.68 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 69.37 ft/day
Le = 1. ft



KAFB10619OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10619OUT-BR.aqt
Date: 08/25/11 Time: 09:05:26

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10619
Test Date: 7/20/11

AQUIFER DATA

Saturated Thickness: 29.68 ft
Anisotropy Ratio (Kz/Kr): 0.1

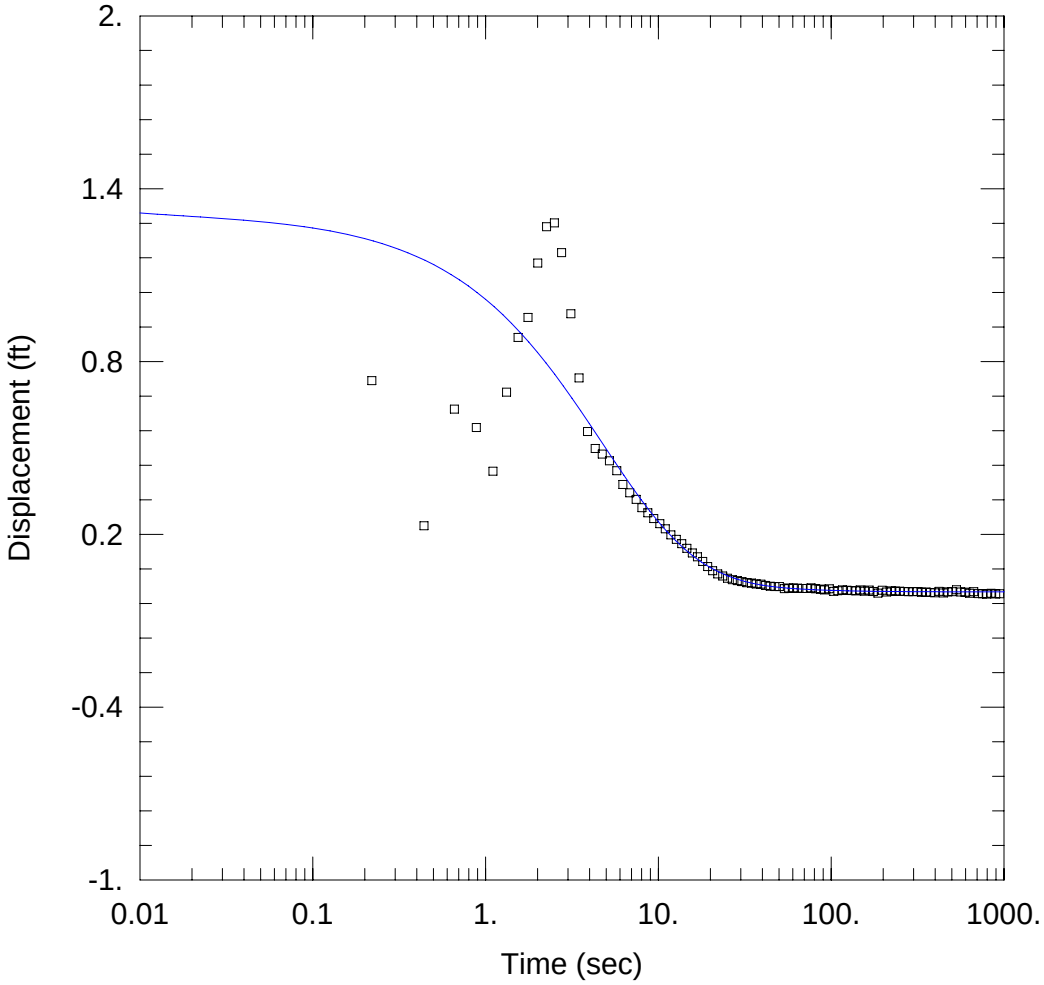
WELL DATA (10619)

Initial Displacement: 1.359 ft
Total Well Penetration Depth: 22.68 ft
Casing Radius: 0.167 ft
Static Water Column Height: 27.68 ft
Screen Length: 22.68 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 26.32 ft/day
y0 = 0.7961 ft



KAFB10619OUT

Data Set: C:\...\KAFB10619OUT-KGS[1].aqt
Date: 08/25/11 Time: 09:08:41

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10619
Test Date: 7/20/11

AQUIFER DATA

Saturated Thickness: 29.68 ft

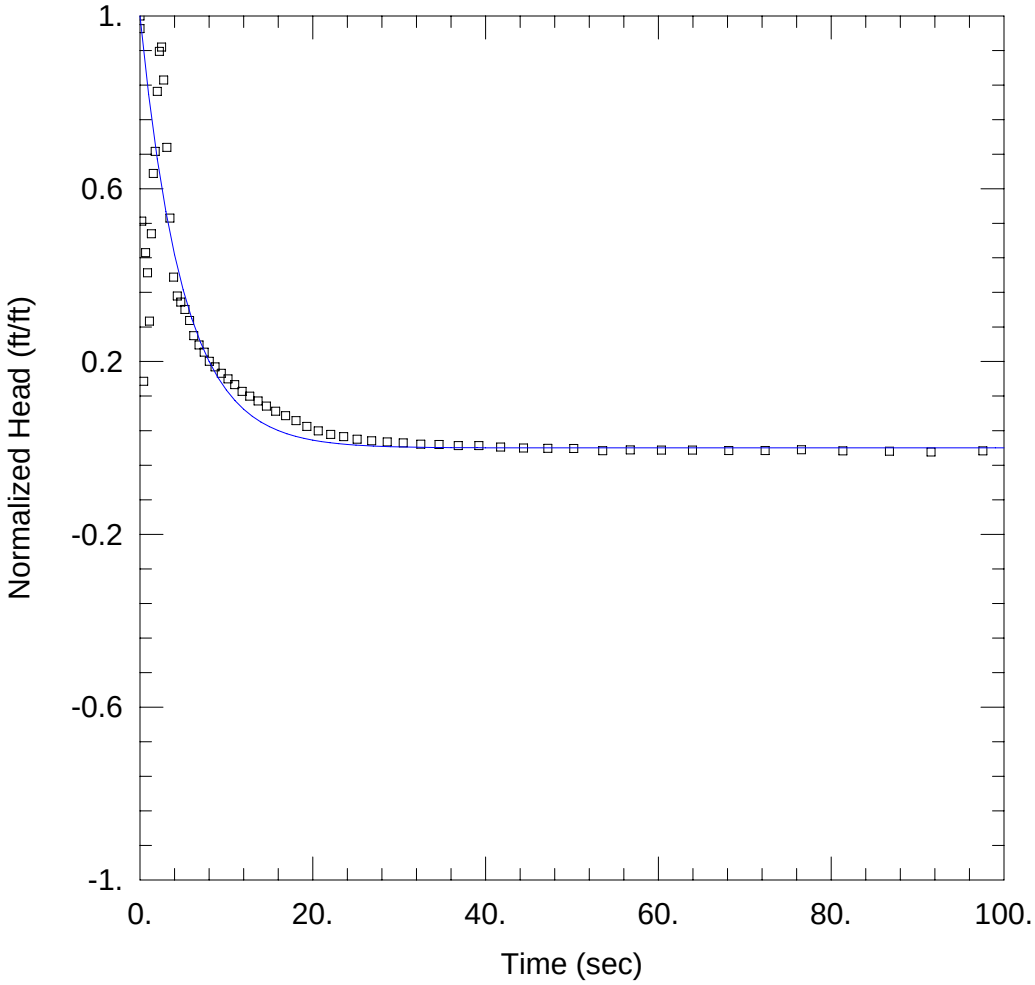
WELL DATA (10619)

Initial Displacement: 1.359 ft
Total Well Penetration Depth: 22.68 ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 27.68 ft
Screen Length: 22.68 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 40.68 ft/day
Kz/Kr = 0.01
Ss' = 0.0003162 ft^{-1}
Ss = 1.0E-5 ft^{-1}
Kr' = 166.2 ft/day
Kz/Kr' = 1.



KAFB10619

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10619OUT-SG.aqt
Date: 08/25/11 Time: 09:06:21

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10619
Test Date: 7/20/11

AQUIFER DATA

Saturated Thickness: 29.68 ft
Anisotropy Ratio (Kz/Kr): 0.1

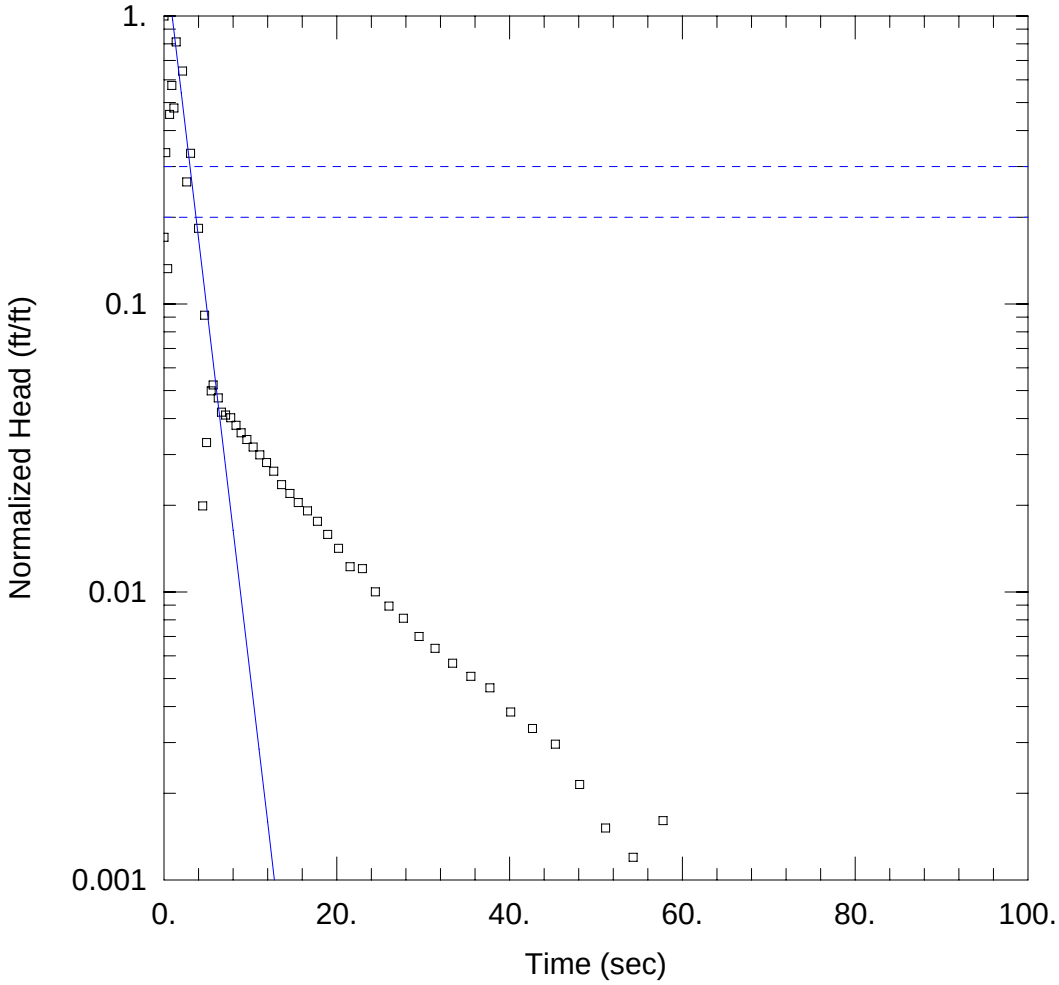
WELL DATA (10619)

Initial Displacement: 1.359 ft
Total Well Penetration Depth: 22.68 ft
Casing Radius: 0.167 ft
Static Water Column Height: 27.68 ft
Screen Length: 22.68 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 48.22 ft/day
Le = 0.1 ft



KAFB106020IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10620IN-BR.aqt
Date: 08/25/11 Time: 09:13:12

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106020
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 38.12 ft
Anisotropy Ratio (Kz/Kr): 0.1

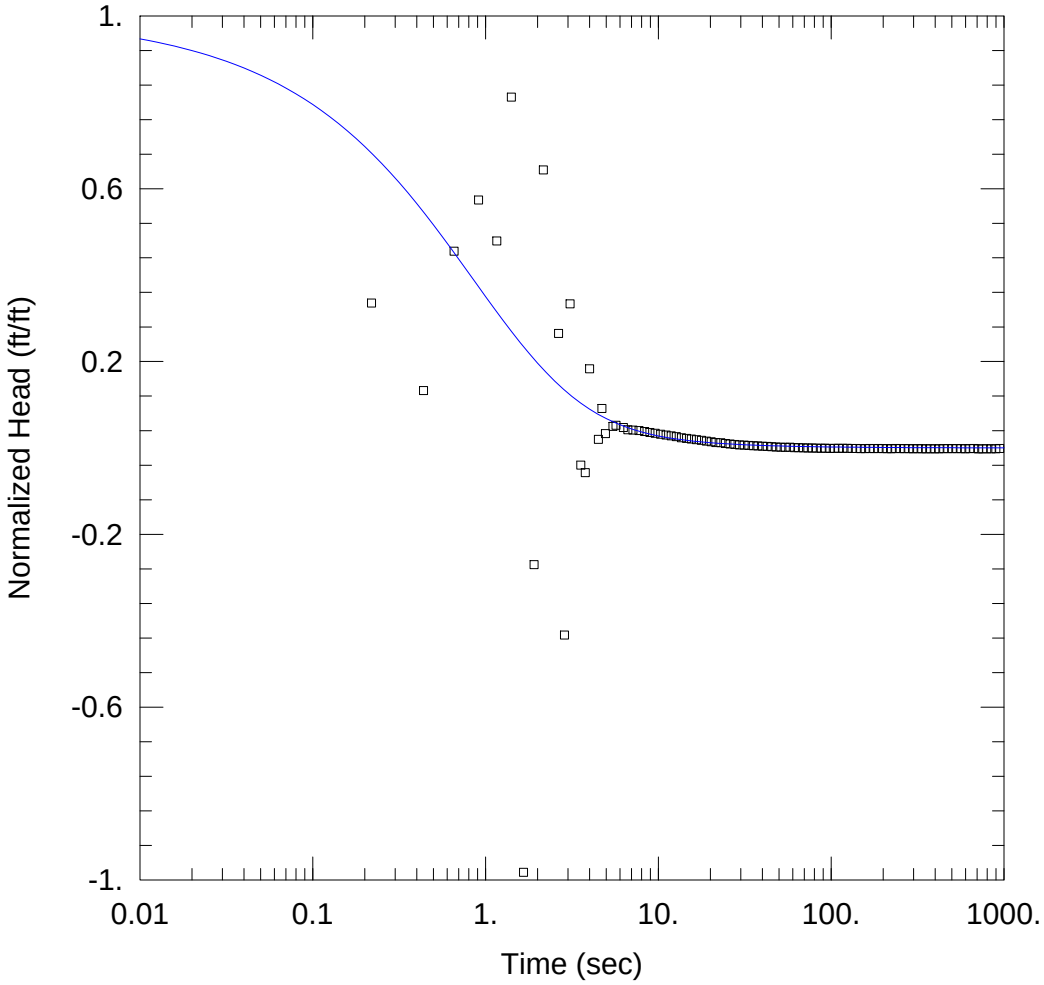
WELL DATA (KAFB106020)

Initial Displacement: 4.8 ft
Total Well Penetration Depth: 21.12 ft
Casing Radius: 0.167 ft
Static Water Column Height: 26.12 ft
Screen Length: 21.12 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 144.9 ft/day
y0 = 8.327 ft



KAFB106020IN

Data Set: C:\...\KAFB10620IN-KGS[1].aqt
Date: 08/26/11 Time: 20:52:05

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106020
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 38.12 ft

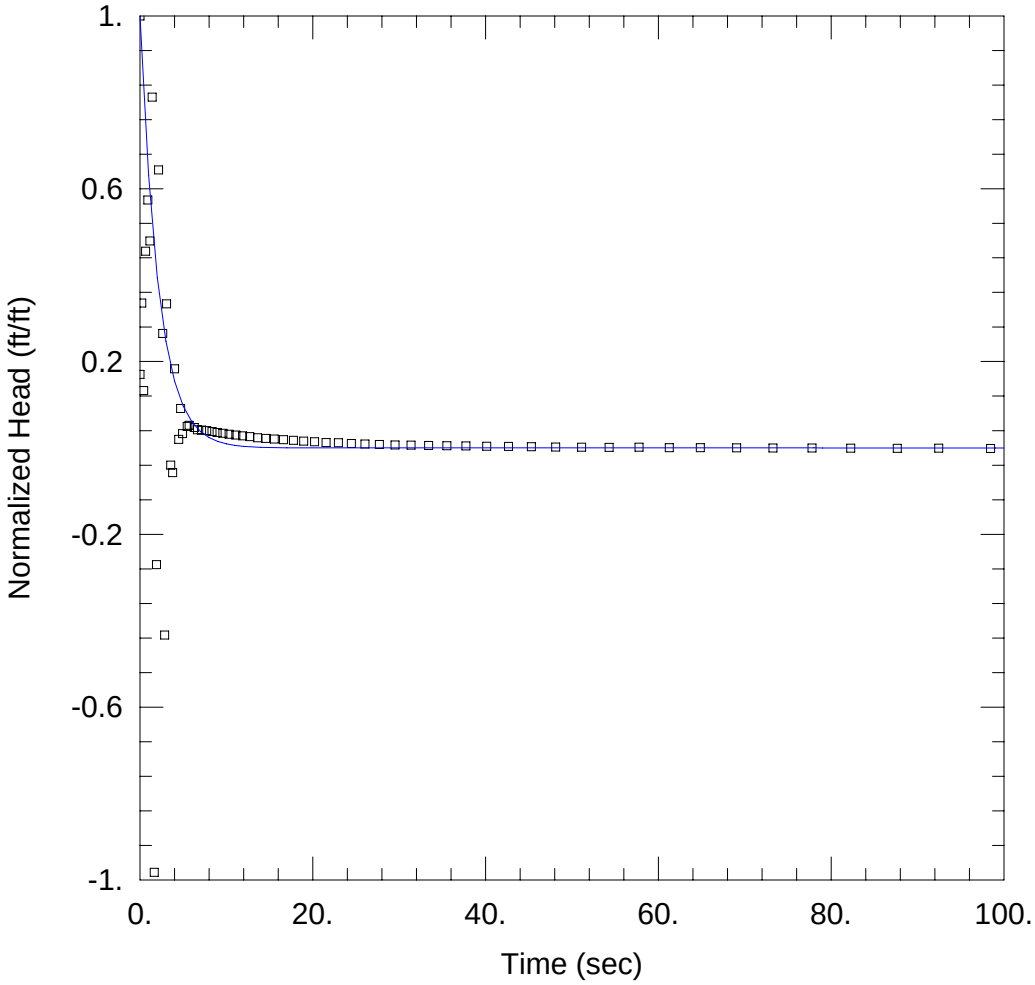
WELL DATA (KAFB106020)

Initial Displacement: 4.8 ft
Total Well Penetration Depth: 21.12 ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 26.12 ft
Screen Length: 21.12 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 131.9 ft/day
Kz/Kr = 0.01334
Ss' = 0.001 ft^{-1}
Ss = 0.0009016 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB10620IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10620IN-SG.aqt
Date: 08/25/11 Time: 09:14:07

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106020
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 38.12 ft
Anisotropy Ratio (Kz/Kr): 0.1

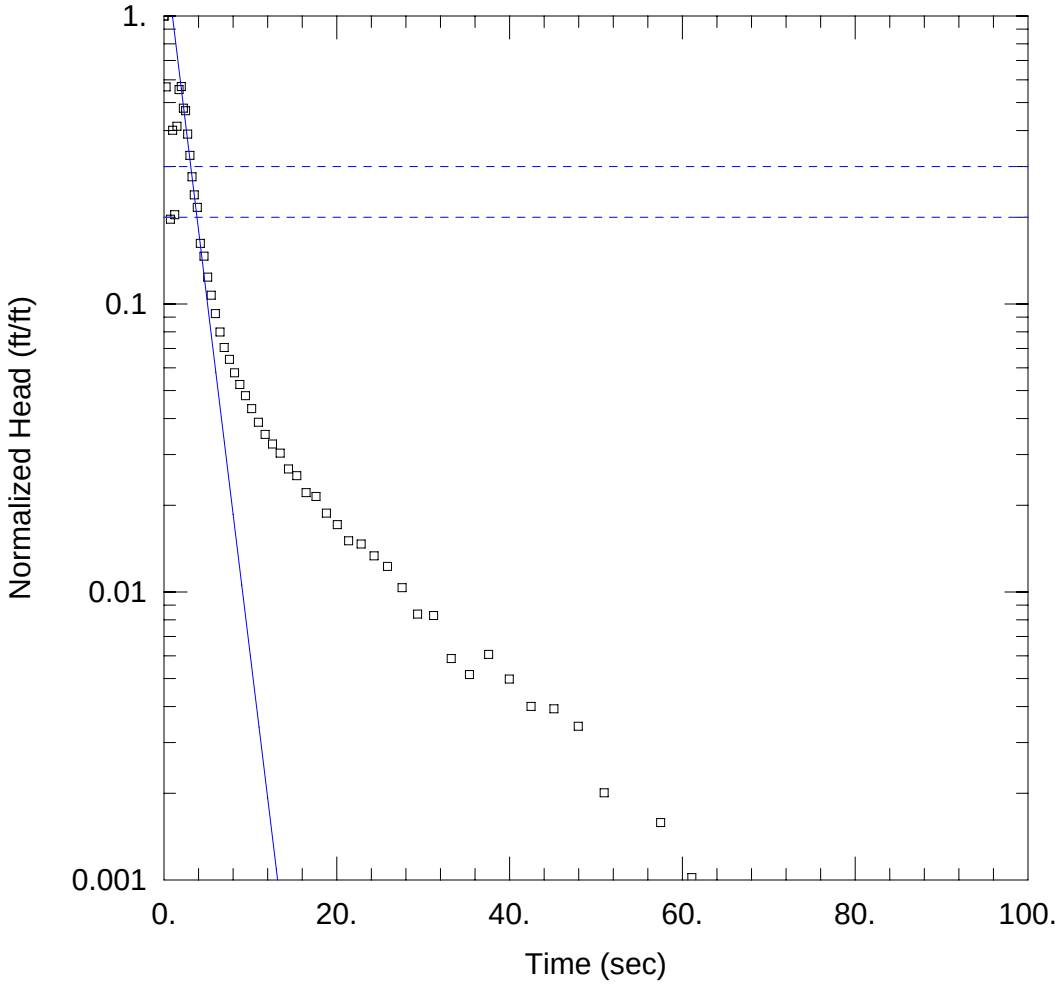
WELL DATA (KAFB106020)

Initial Displacement: 4.8 ft
Total Well Penetration Depth: 21.12 ft
Casing Radius: 0.167 ft
Static Water Column Height: 26.12 ft
Screen Length: 21.12 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 115.7 ft/day
Le = 1. ft



KAFB10620OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10620OUT-BR.aqt
Date: 08/25/11 Time: 09:15:37

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106020
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 38.12 ft
Anisotropy Ratio (Kz/Kr): 0.1

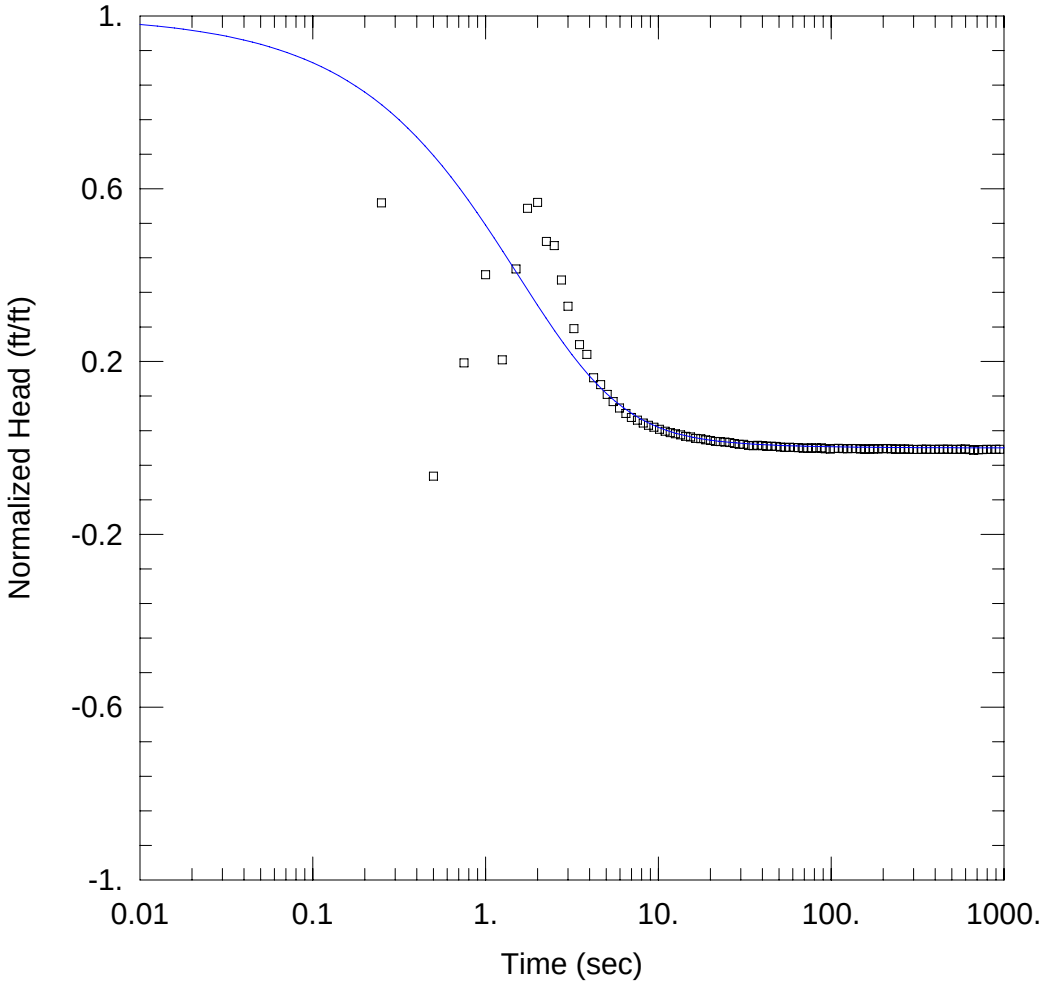
WELL DATA (KAFB106020)

Initial Displacement: 2.688 ft
Total Well Penetration Depth: 21.12 ft
Casing Radius: 0.167 ft
Static Water Column Height: 26.12 ft
Screen Length: 21.12 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 141. ft/day
y0 = 4.685 ft



KAFB10620OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10620OUT-KGS.aqt
Date: 08/25/11 Time: 09:18:03

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106020
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 38.12 ft

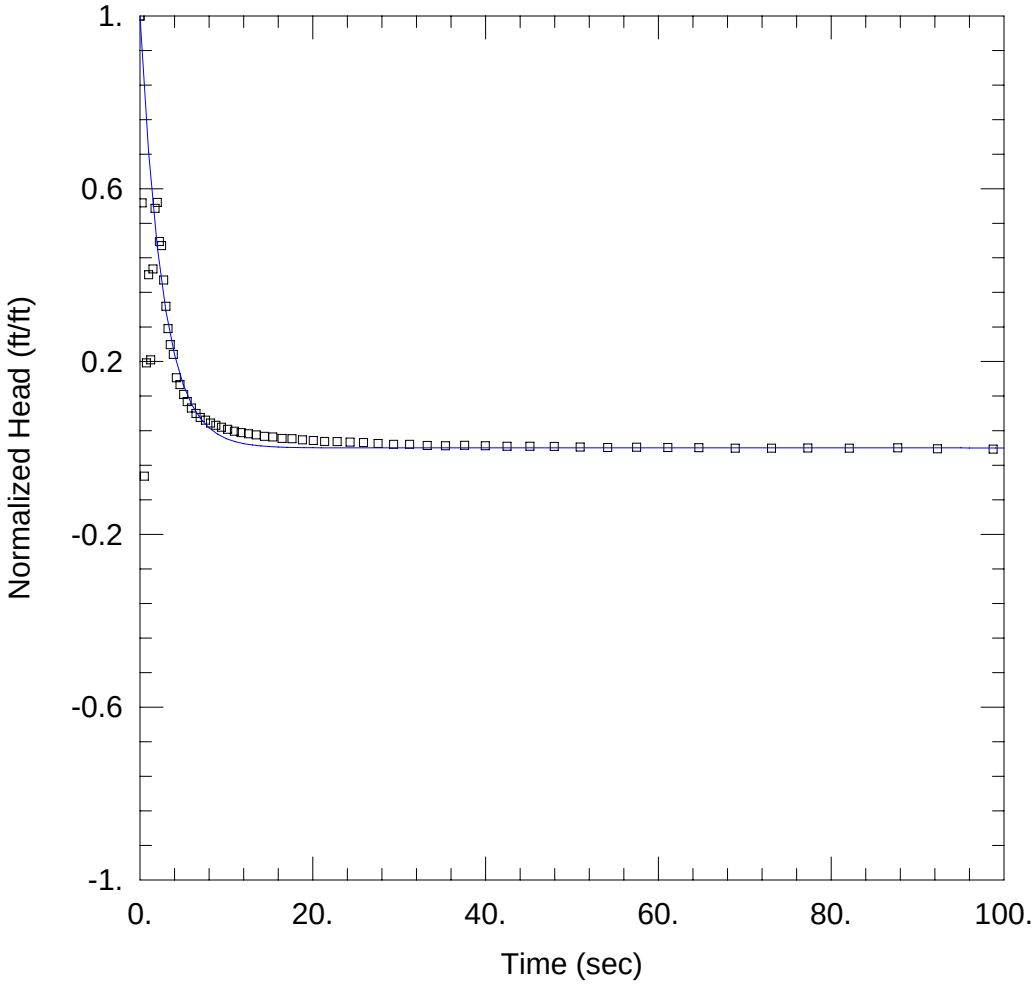
WELL DATA (KAFB106020)

Initial Displacement: 2.688 ft
Total Well Penetration Depth: 21.12 ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 26.12 ft
Screen Length: 21.12 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 93.18 ft/day
Kz/Kr = 0.1
Ss' = 3.162E-5 ft^{-1}
Ss = 0.0001905 ft^{-1}
Kr' = 167.2 ft/day
Kz/Kr' = 1.



KAFB10620OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10620OUT-SG.aqt
Date: 08/25/11 Time: 09:16:10

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106020
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 38.12 ft
Anisotropy Ratio (Kz/Kr): 0.1

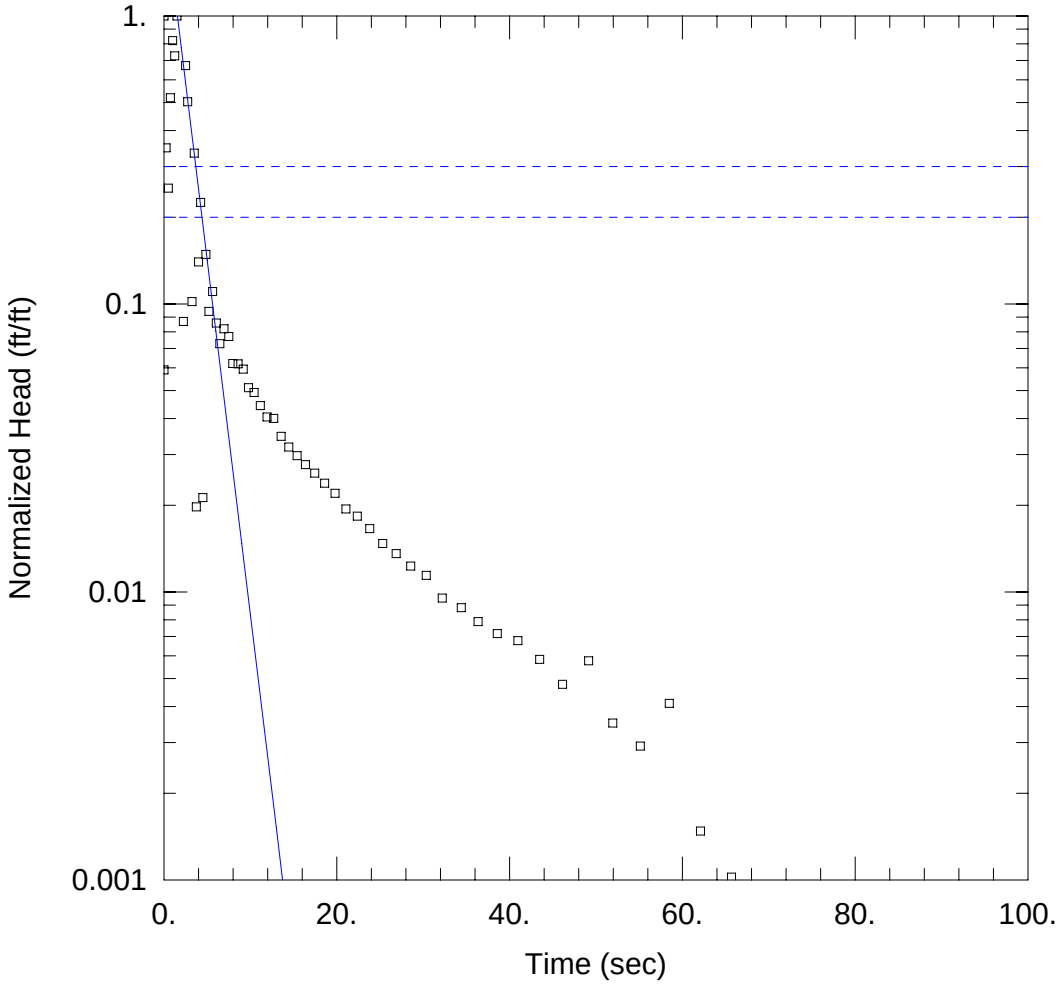
WELL DATA (KAFB106020)

Initial Displacement: 2.688 ft
Total Well Penetration Depth: 21.12 ft
Casing Radius: 0.167 ft
Static Water Column Height: 26.12 ft
Screen Length: 21.12 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 95.21 ft/day
Le = 1. ft



KAFB10621IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10621IN-BR.aqt
Date: 08/25/11 Time: 09:21:06

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10621
Test Date: 7/22/11

AQUIFER DATA

Saturated Thickness: 36.03 ft
Anisotropy Ratio (Kz/Kr): 0.1

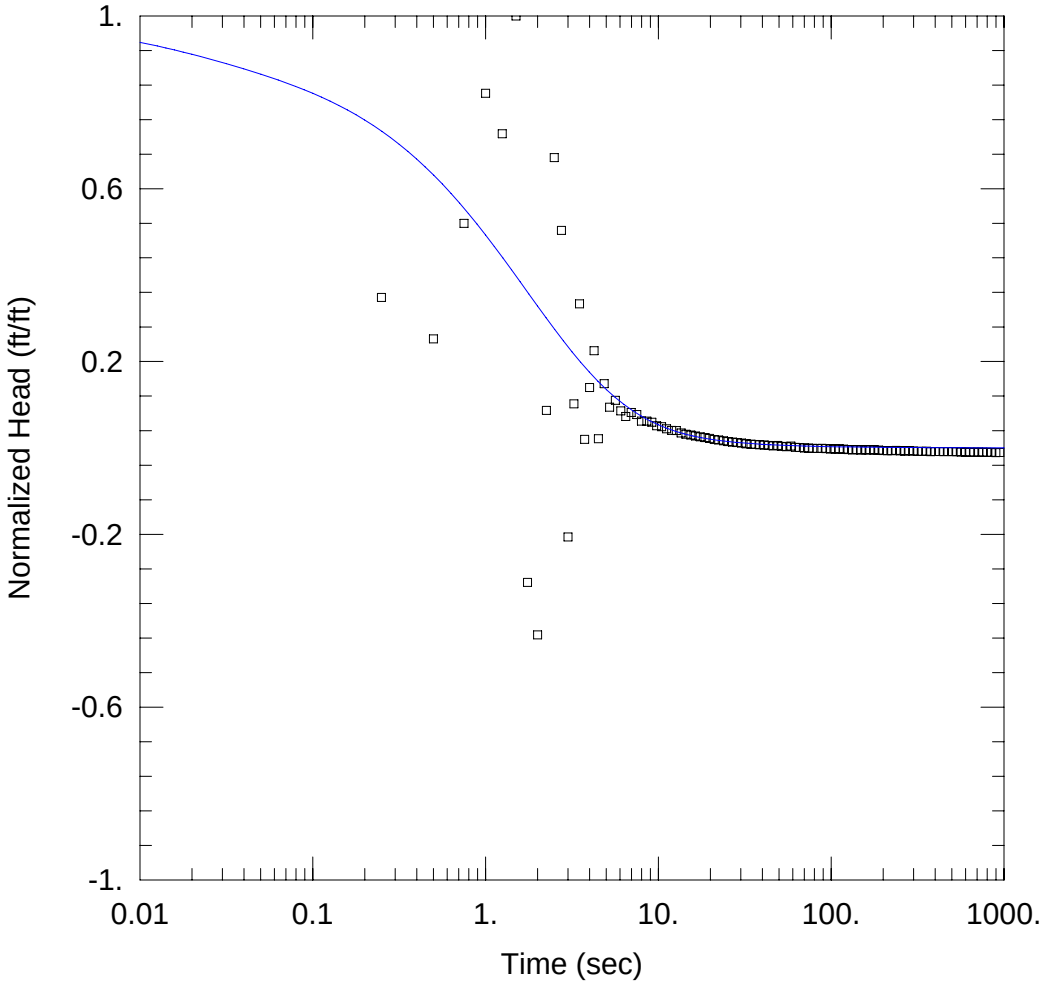
WELL DATA (KAFB 10621)

Initial Displacement: 3.534 ft
Total Well Penetration Depth: 24.03 ft
Casing Radius: 0.167 ft
Static Water Column Height: 29.03 ft
Screen Length: 24.03 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 128.6 ft/day
y0 = 8.545 ft



KAFB10621IN

Data Set: C:\...\KAFB10621IN-KSG[1].aqt
Date: 08/25/11 Time: 09:24:53

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10621
Test Date: 7/22/11

AQUIFER DATA

Saturated Thickness: 36.03 ft

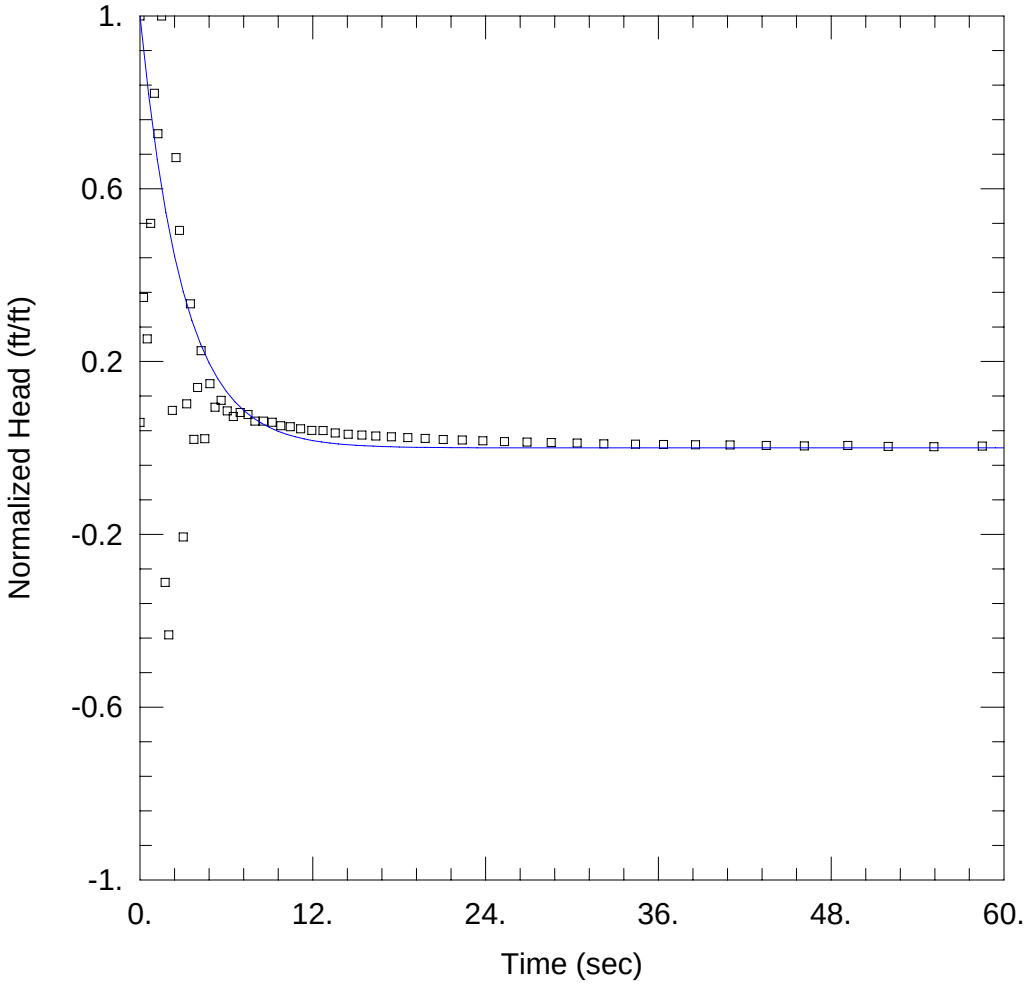
WELL DATA (KAFB 10621)

Initial Displacement: 3.534 ft
Total Well Penetration Depth: 24.03 ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 29.03 ft
Screen Length: 24.03 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 77.51 ft/day
Kz/Kr = 0.0871
Ss' = 0.001 ft^{-1}
Ss = 0.0001641 ft^{-1}
Kr' = 185.8 ft/day
Kz/Kr' = 1.



KAFB10621IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10621IN-SG.aqt
Date: 08/25/11 Time: 09:21:49

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10621
Test Date: 7/22/11

AQUIFER DATA

Saturated Thickness: 36.03 ft Anisotropy Ratio (Kz/Kr): 0.1

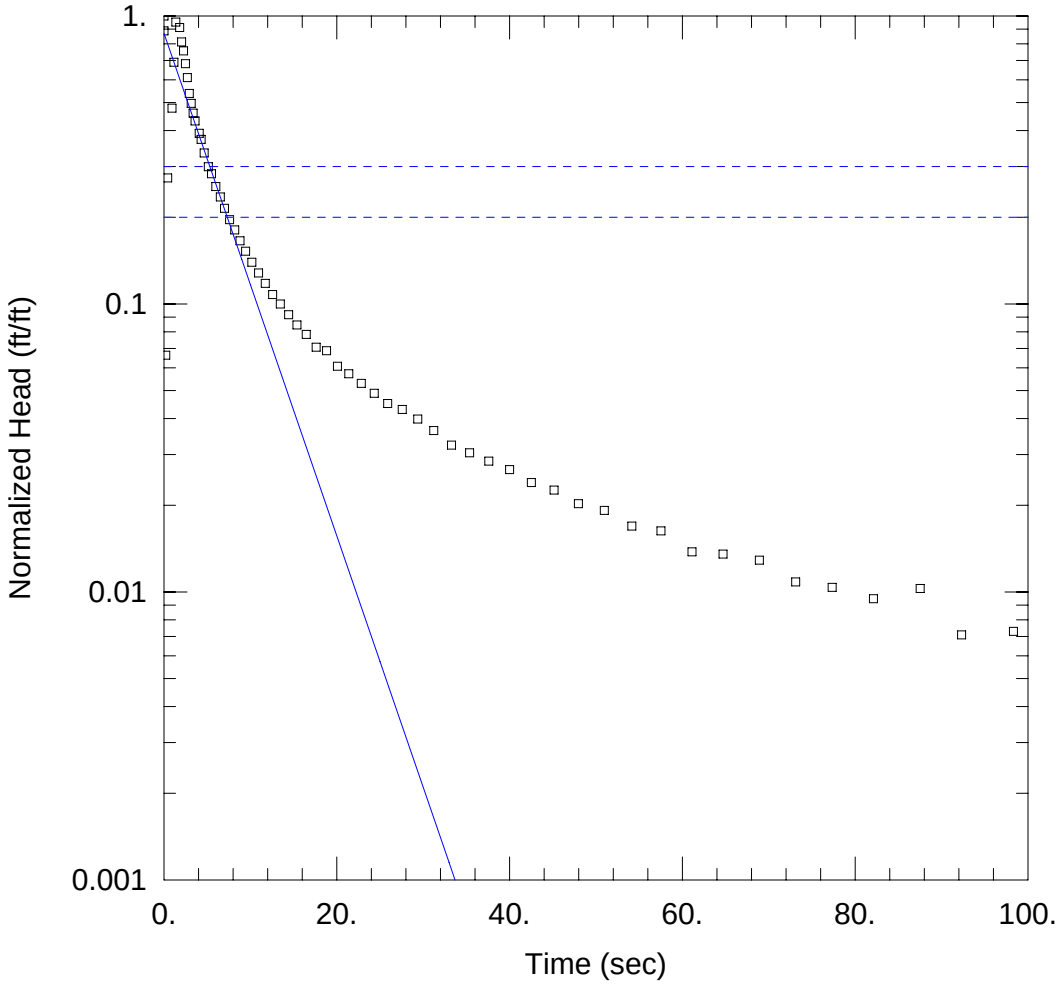
WELL DATA (KAFB 10621)

Initial Displacement: 3.534 ft
Total Well Penetration Depth: 24.03 ft
Casing Radius: 0.167 ft
Static Water Column Height: 29.03 ft
Screen Length: 24.03 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Springer-Gelhar

K = 76.88 ft/day Le = 1. ft



KAFB10621OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10621OUT-BR.aqt
Date: 08/25/11 Time: 09:22:38

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10621
Test Date: 7/22/11

AQUIFER DATA

Saturated Thickness: 36.03 ft
Anisotropy Ratio (Kz/Kr): 0.1

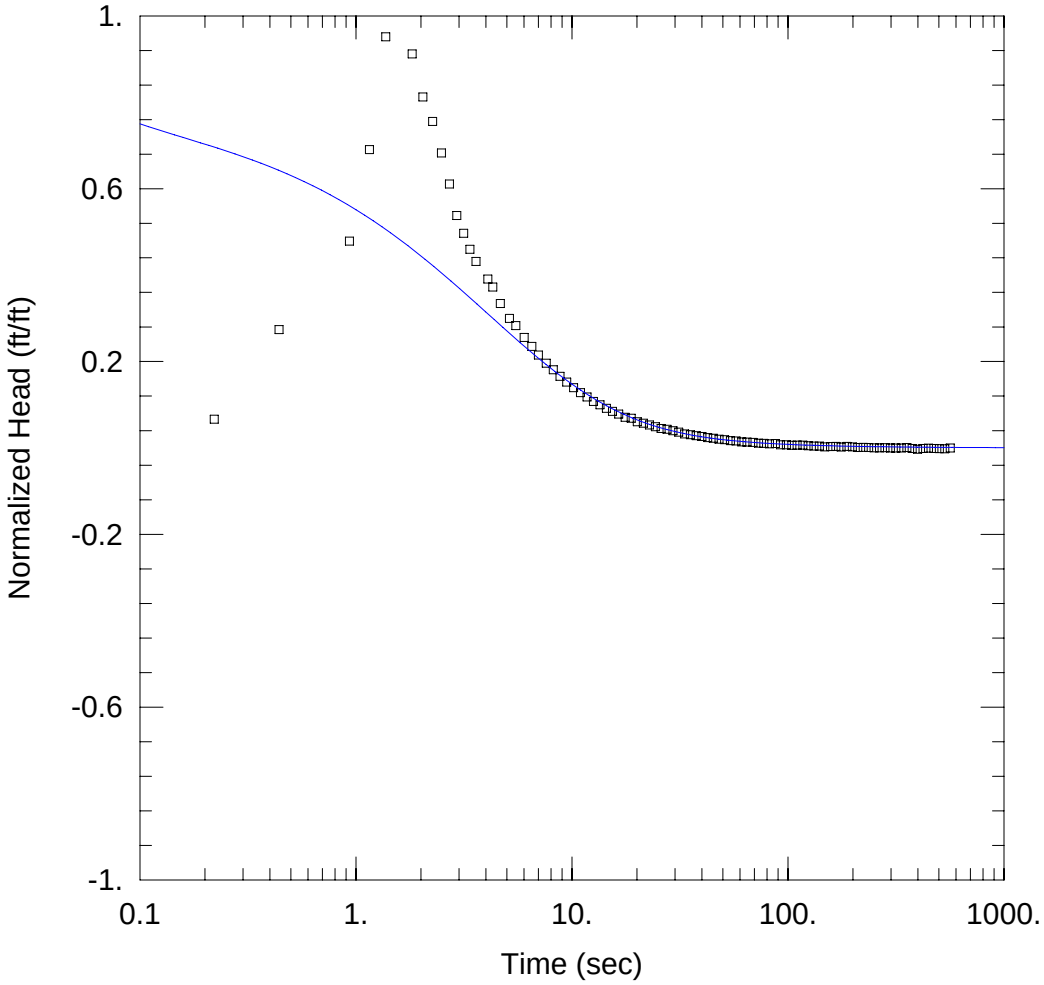
WELL DATA (KAFB 10621)

Initial Displacement: 1.804 ft
Total Well Penetration Depth: 24.03 ft
Casing Radius: 0.167 ft
Static Water Column Height: 29.03 ft
Screen Length: 24.03 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 45.58 ft/day
y0 = 1.57 ft



KAFB10621OUT

Data Set: C:\...\KAFB10621OUT-KGS[1].aqt
Date: 11/04/11 Time: 11:03:32

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10621
Test Date: 7/22/11

AQUIFER DATA

Saturated Thickness: 36.03 ft

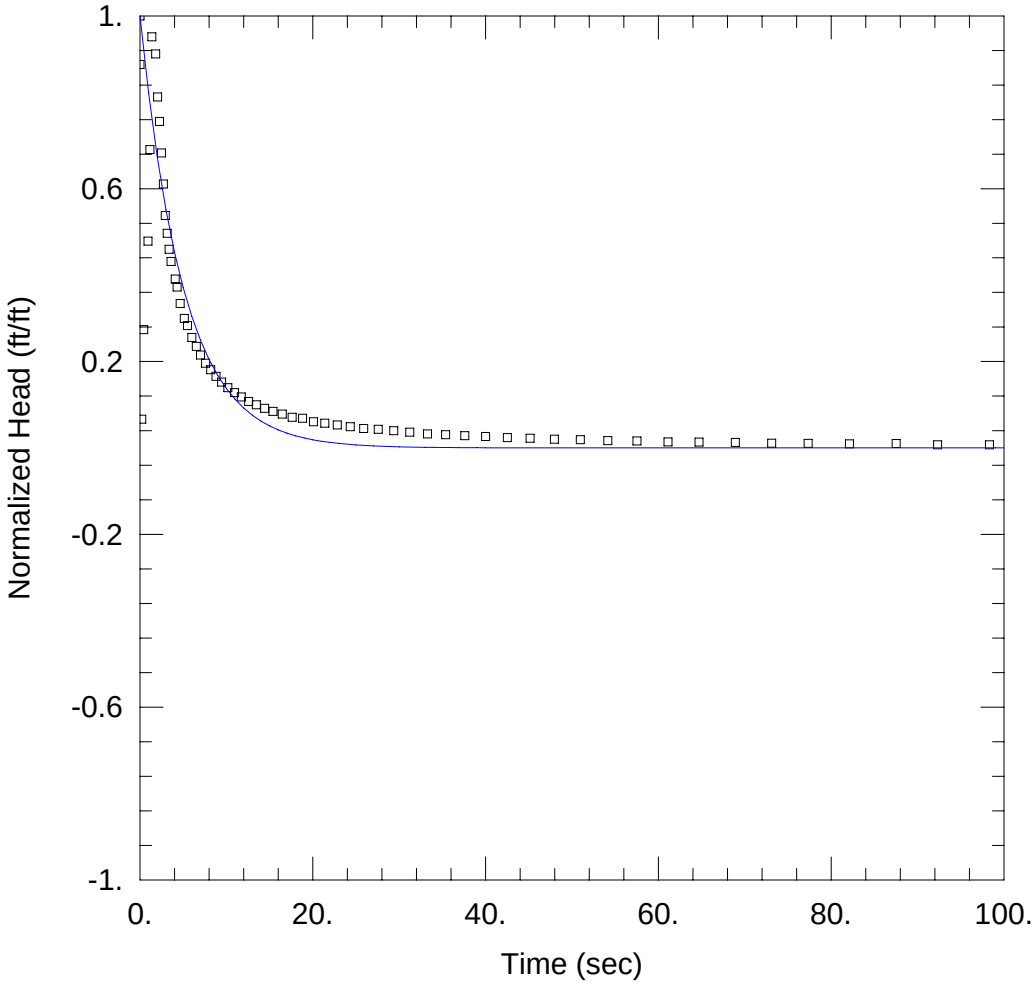
WELL DATA (KAFB 10621)

Initial Displacement: 1.804 ft
Total Well Penetration Depth: 24.03 ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 29.03 ft
Screen Length: 24.03 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 30.12 ft/day
Kz/Kr = 0.01096
Ss' = 0.002512 ft^{-1}
Ss = 0.0002712 ft^{-1}
Kr' = 177.4 ft/day
Kz/Kr' = 1.



KAFB10621OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10621OUT-SG.aqt
Date: 08/25/11 Time: 09:23:12

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10621
Test Date: 7/22/11

AQUIFER DATA

Saturated Thickness: 36.03 ft
Anisotropy Ratio (Kz/Kr): 0.1

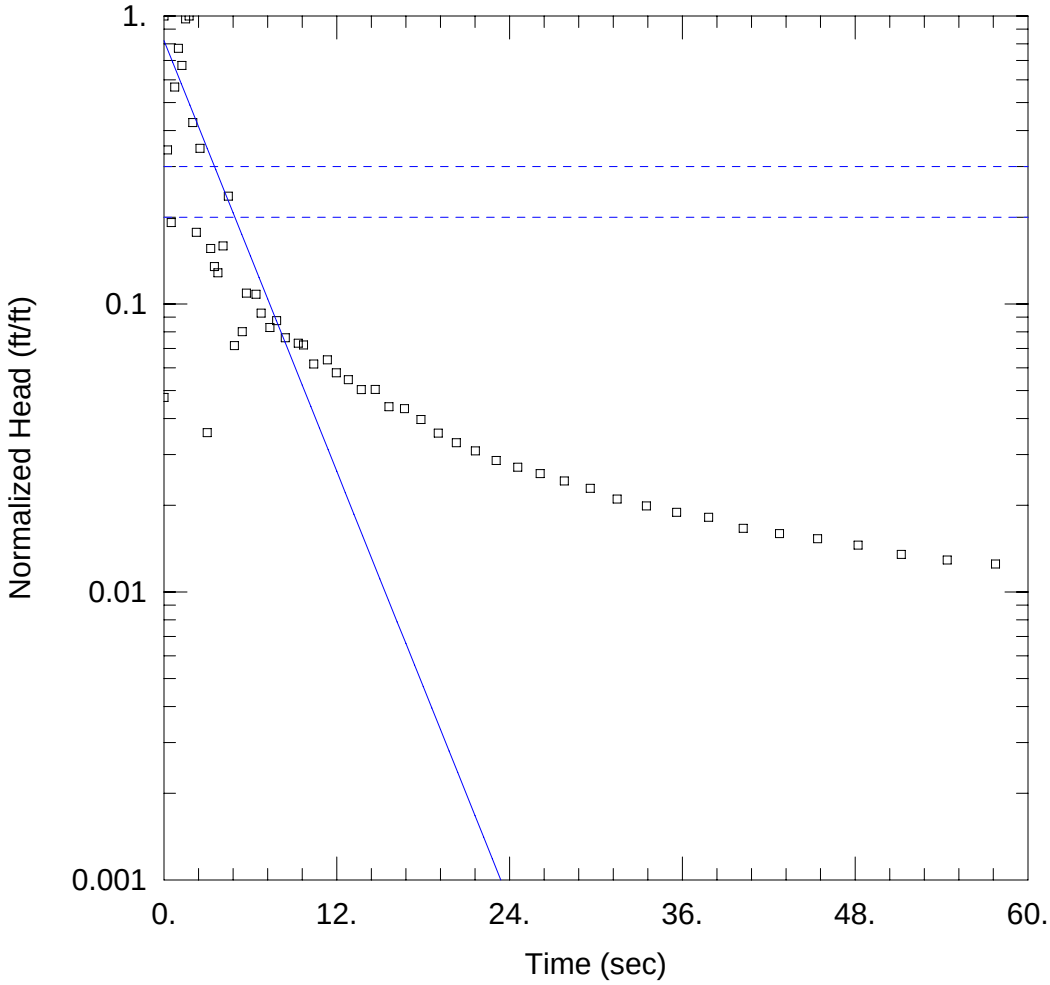
WELL DATA (KAFB 10621)

Initial Displacement: 1.804 ft
Total Well Penetration Depth: 24.03 ft
Casing Radius: 0.167 ft
Static Water Column Height: 29.03 ft
Screen Length: 24.03 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 45.02 ft/day
Le = 1. ft



KAFB10625IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10625IN-BR.aqt
Date: 08/25/11 Time: 09:38:34

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10625
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 34.95 ft
Anisotropy Ratio (Kz/Kr): 0.1

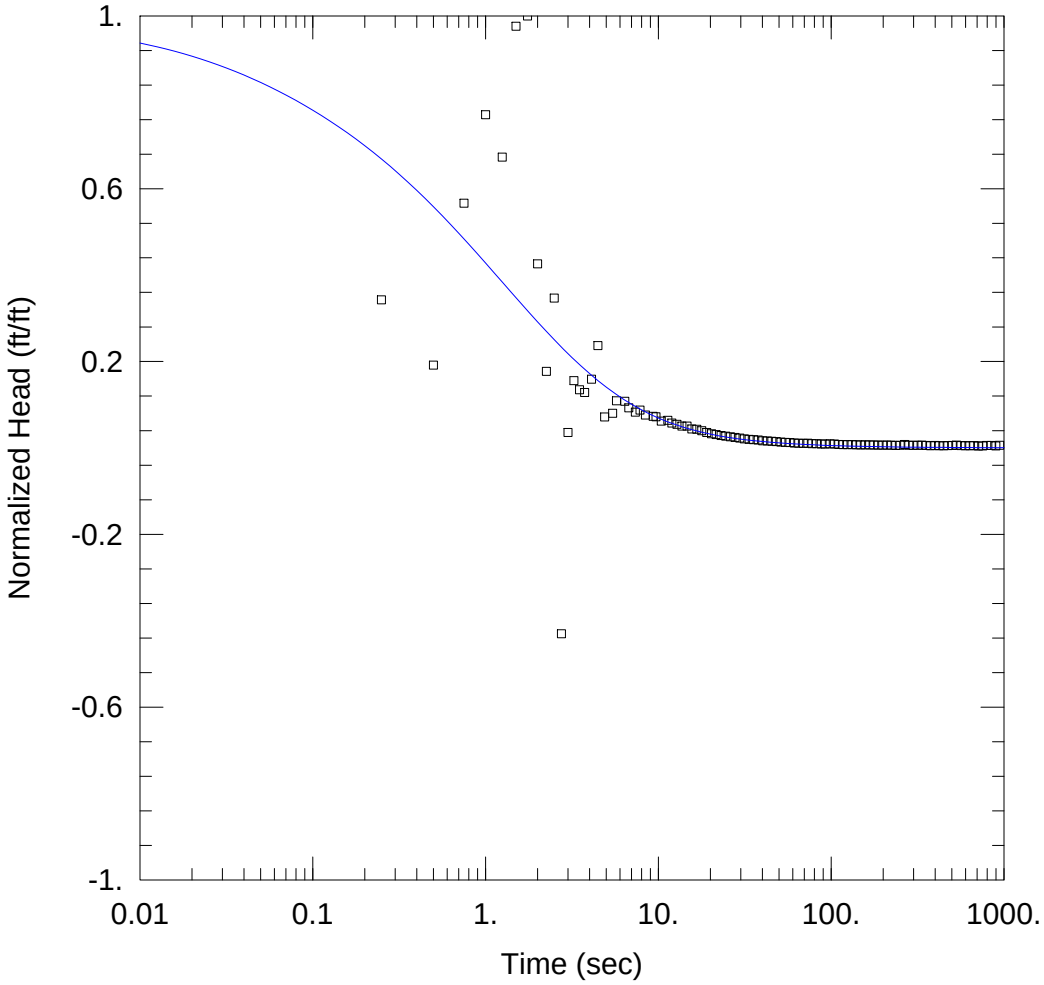
WELL DATA (KAFB10625)

Initial Displacement: 4.093 ft
Total Well Penetration Depth: 19.95 ft
Casing Radius: 0.167 ft
Static Water Column Height: 24.95 ft
Screen Length: 19.95 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 74.65 ft/day
y0 = 3.36 ft



KAFB10625IN

Data Set: C:\...\KAFB10625IN-KGS[1].aqt
Date: 08/26/11 Time: 21:07:12

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10625
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 34.95 ft

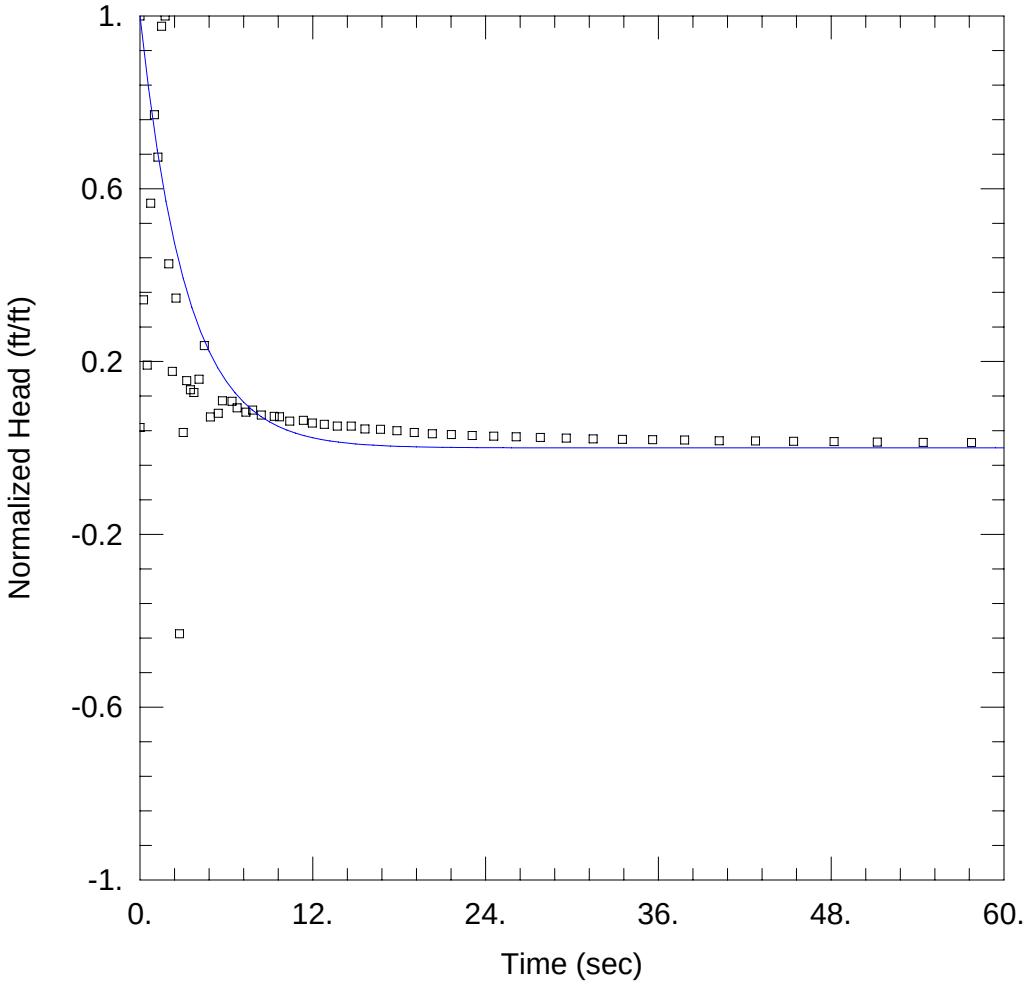
WELL DATA (KAFB10625)

Initial Displacement: 4.093 ft
Total Well Penetration Depth: 19.95 ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 24.95 ft
Screen Length: 19.95 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 54.51 ft/day
Kz/Kr = 0.1
Ss' = 0.001778 ft^{-1}
Ss = 0.002291 ft^{-1}
Kr' = 180.9 ft/day
Kz/Kr' = 1.



KAFB10625IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10625IN-SG.aqt
Date: 08/25/11 Time: 09:40:31

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10625
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 34.95 ft
Anisotropy Ratio (Kz/Kr): 0.1

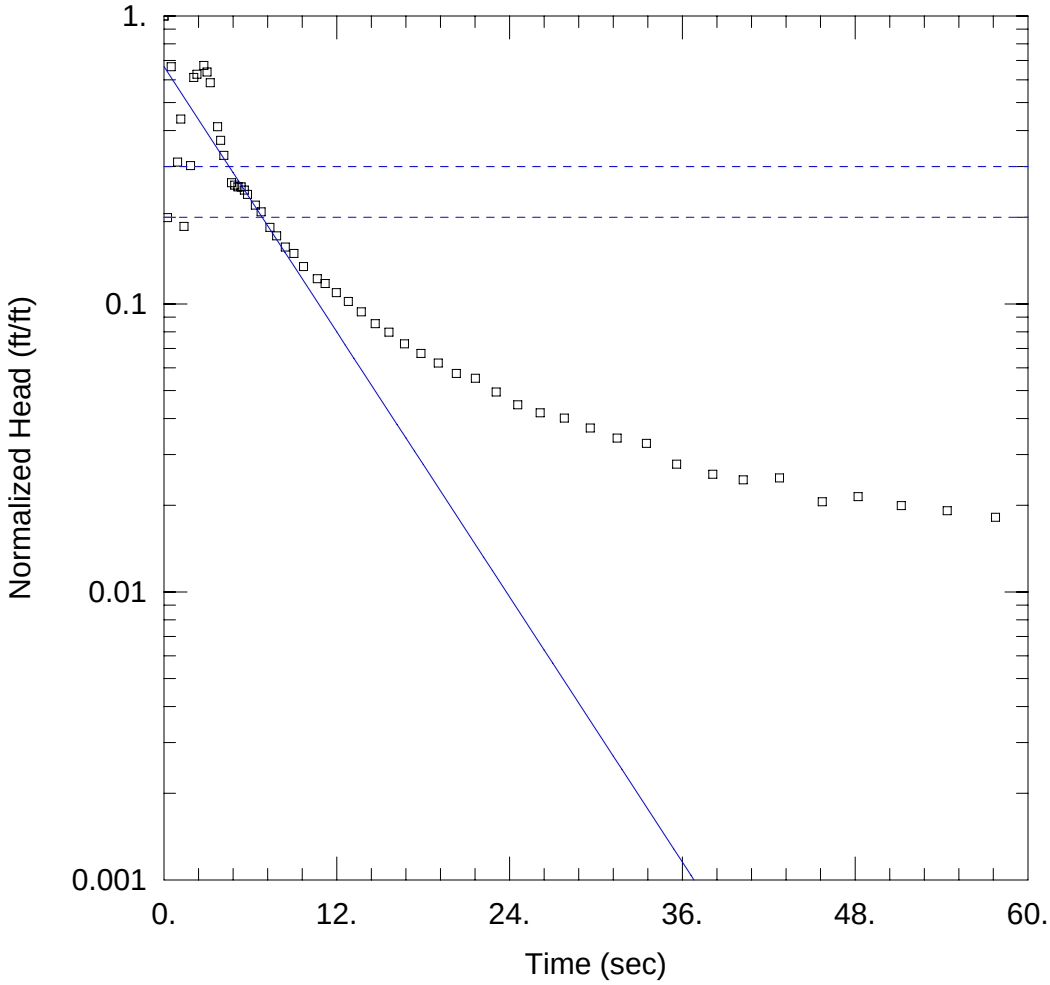
WELL DATA (KAFB10625)

Initial Displacement: 4.093 ft
Total Well Penetration Depth: 19.95 ft
Casing Radius: 0.167 ft
Static Water Column Height: 24.95 ft
Screen Length: 19.95 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 81.14 ft/day
Le = 1. ft



KAFB10625OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10625OUT-BR.aqt
Date: 08/25/11 Time: 09:42:01

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10625
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 34.95 ft
Anisotropy Ratio (Kz/Kr): 0.1

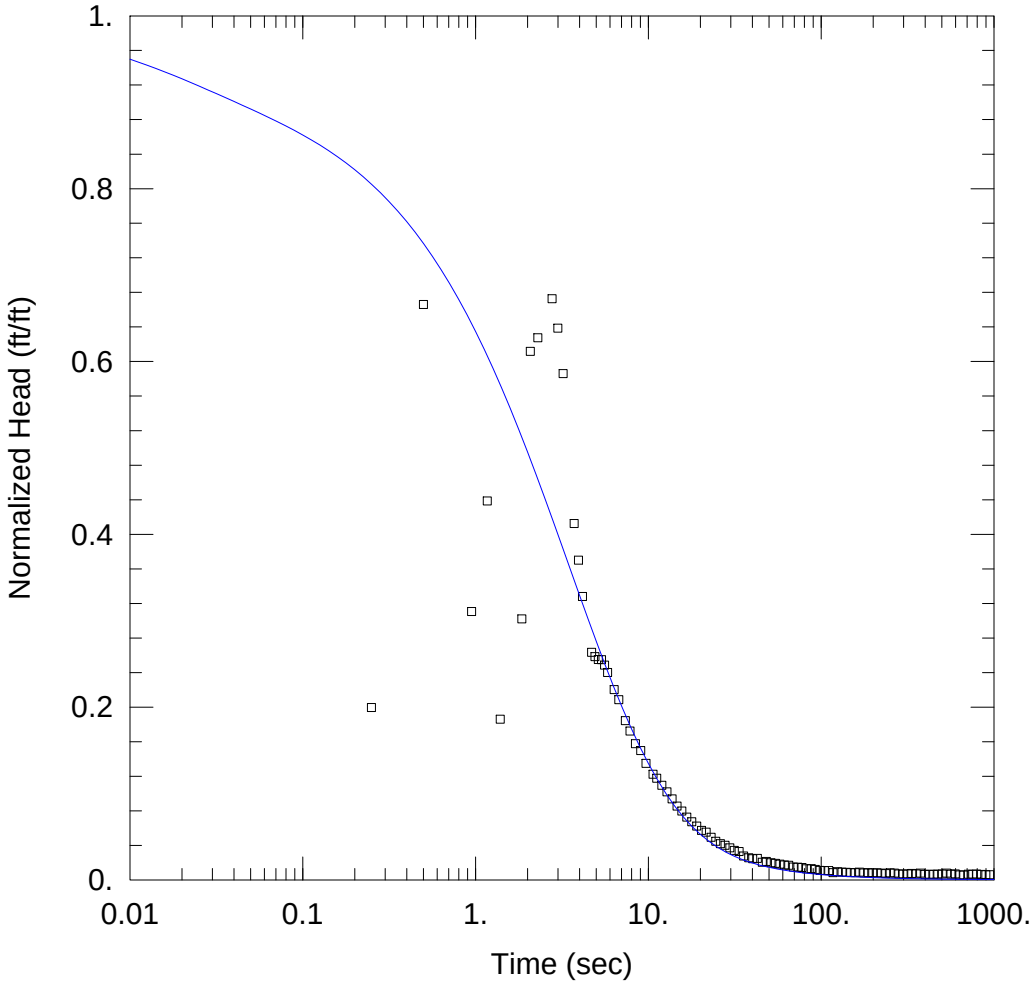
WELL DATA (KAFB10625)

Initial Displacement: 2.662 ft
Total Well Penetration Depth: 19.95 ft
Casing Radius: 0.167 ft
Static Water Column Height: 24.95 ft
Screen Length: 19.95 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 45.97 ft/day
y0 = 1.775 ft



KAFB10625OUT

Data Set: C:\...\KAFB10625OUT-KGS[1].aqt
Date: 08/26/11 Time: 21:05:24

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10625
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 34.95 ft

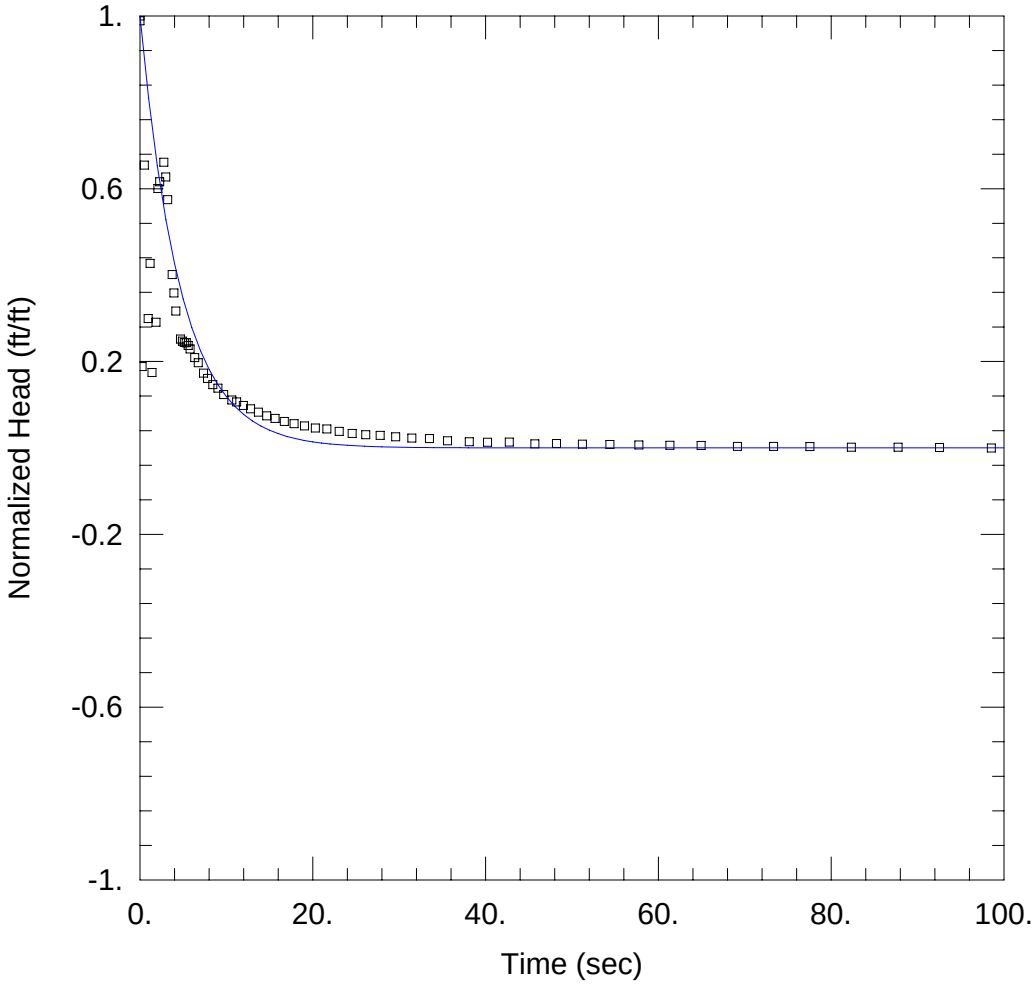
WELL DATA (KAFB10625)

Initial Displacement: 2.662 ft
Total Well Penetration Depth: 19.95 ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 24.95 ft
Screen Length: 19.95 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 46.11 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.0001479 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB10625OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB10625OUT-SG.aqt
Date: 08/25/11 Time: 09:42:54

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 10625
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 34.95 ft
Anisotropy Ratio (Kz/Kr): 0.1

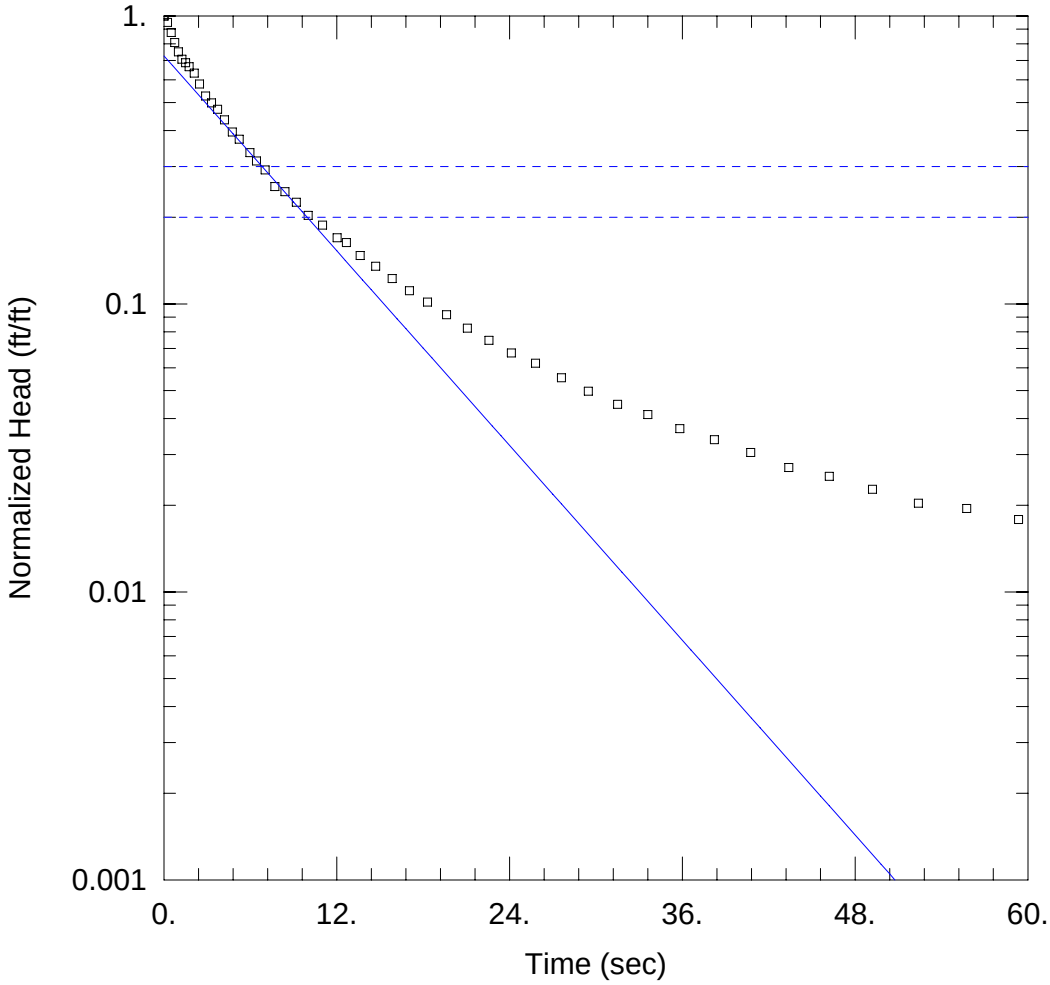
WELL DATA (KAFB10625)

Initial Displacement: 2.662 ft
Total Well Penetration Depth: 19.95 ft
Casing Radius: 0.167 ft
Static Water Column Height: 24.95 ft
Screen Length: 19.95 ft
Well Radius: 0.167 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 55.45 ft/day
Le = 1. ft



KAFB106030P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106030P1-BR.aqt
Date: 08/25/11 Time: 09:48:48

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106030
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 0.1

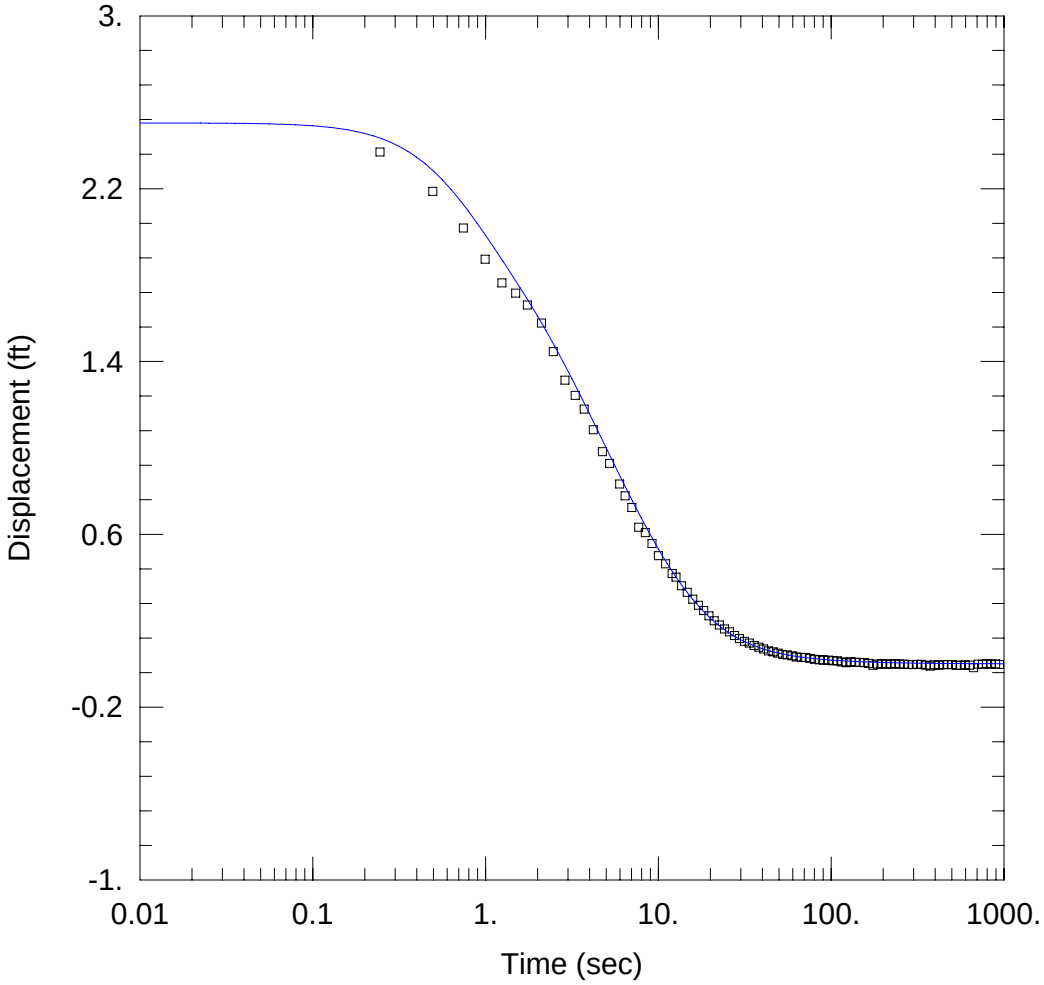
WELL DATA (KAFB106030P1)

Initial Displacement: 2.504 ft
Total Well Penetration Depth: 28.52 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33.92 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 63.03 ft/day
y0 = 1.819 ft



KAFB106030P1

Data Set: C:\...\KAFB106030P1-BZ[1].aqt
Date: 11/01/11 Time: 14:19:14

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106030
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.1

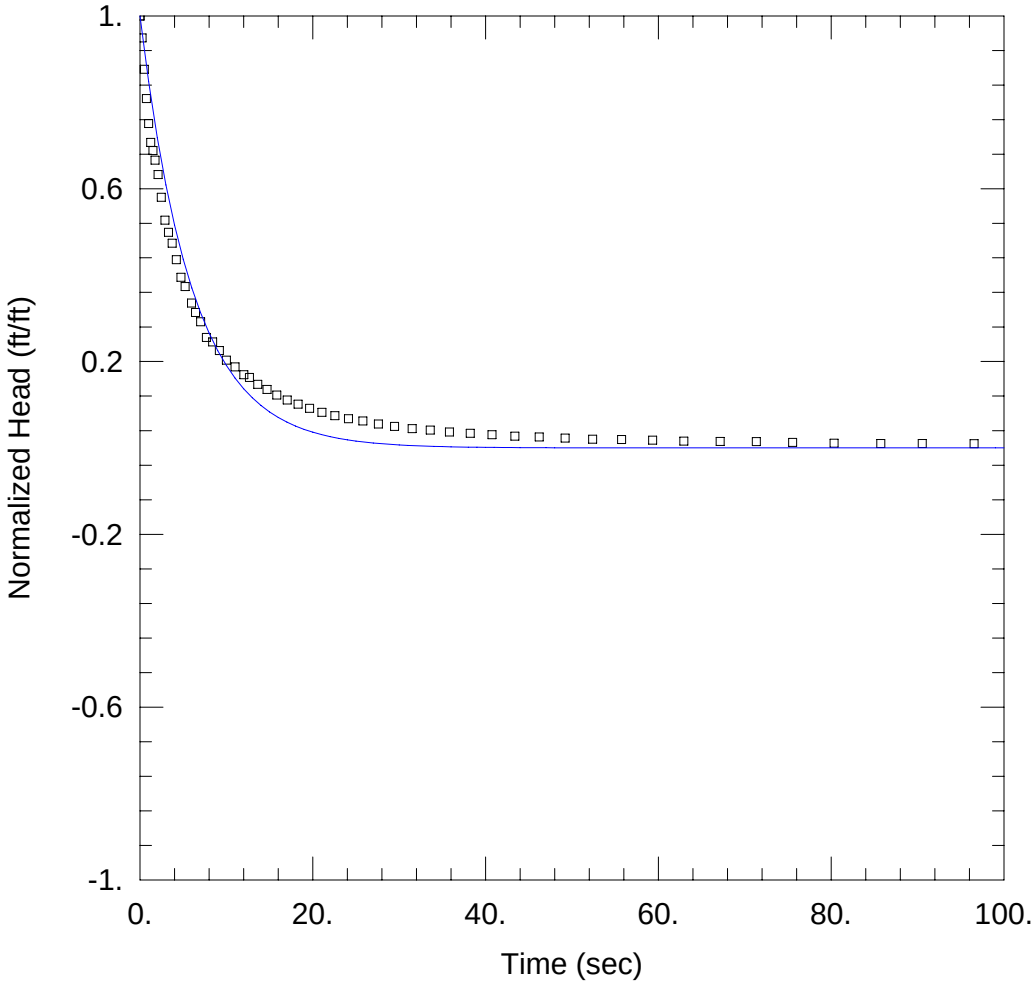
WELL DATA (KAFB106030P1)

Initial Displacement: 2.504 ft
Total Well Penetration Depth: 28.52 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33.92 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 63.39 ft/day
Kz/Kr = 0.1
Ss = 0.0003055 ft^{-1}
Le = 28.84 ft



KAFB106030P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106030P1-SG.aqt
Date: 08/25/11 Time: 09:49:47

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106030
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 0.1

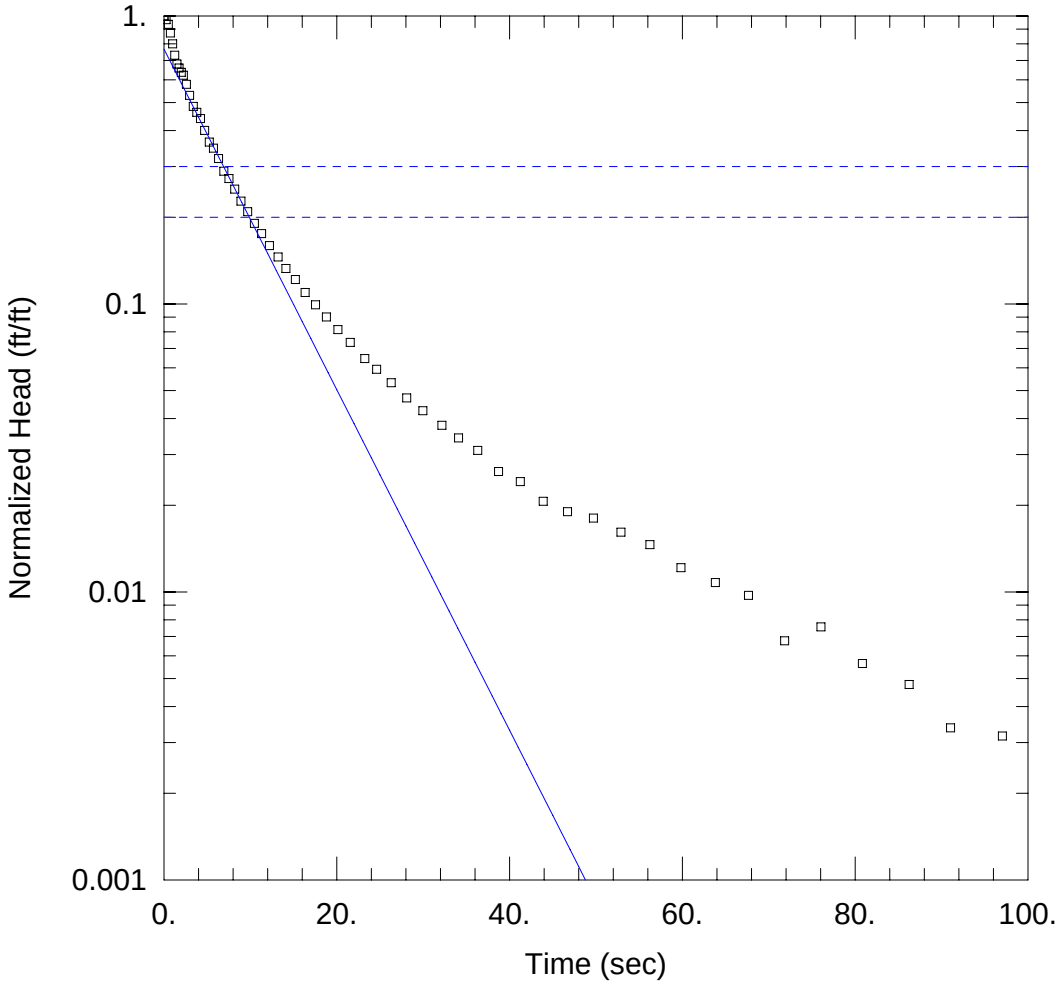
WELL DATA (KAFB106030P1)

Initial Displacement: 2.504 ft
Total Well Penetration Depth: 28.52 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33.92 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 80.47 ft/day
Le = 1. ft



KAFB106030P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106030P2-BR.aqt
Date: 08/25/11 Time: 09:57:29

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106030
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 0.1

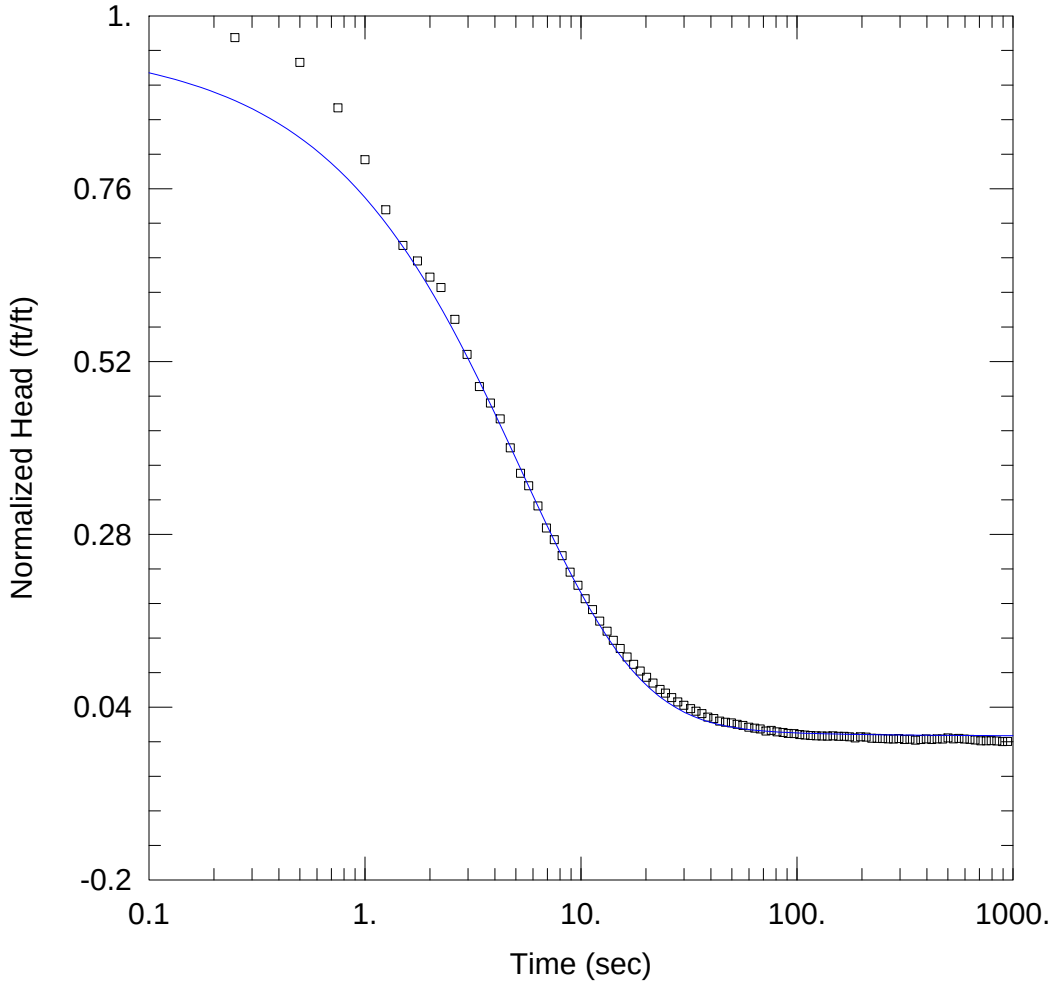
WELL DATA (KAFB106030)

Initial Displacement: 2.379 ft
Total Well Penetration Depth: 28.52 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33.92 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 66.13 ft/day
y0 = 1.824 ft



KAFB106030P2

Data Set: C:\...\KAFB106030P2-KGS[1].aqt
Date: 08/26/11 Time: 21:15:21

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106030
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 35. ft

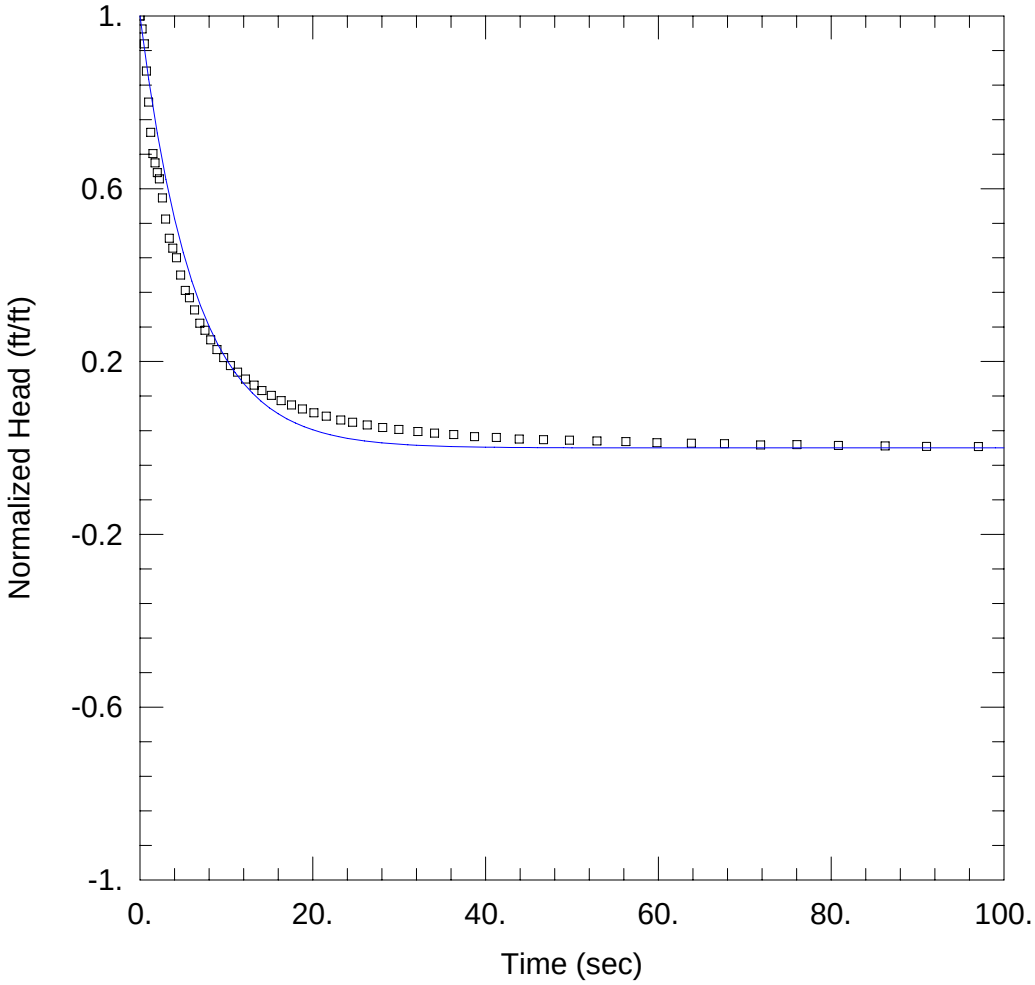
WELL DATA (KAFB106030)

Initial Displacement: 2.379 ft
Total Well Penetration Depth: 28.52 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 33.92 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 71.07 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 5.821E-5 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106030P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106030P2-SG.aqt
Date: 08/25/11 Time: 09:58:26

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106030
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 0.1

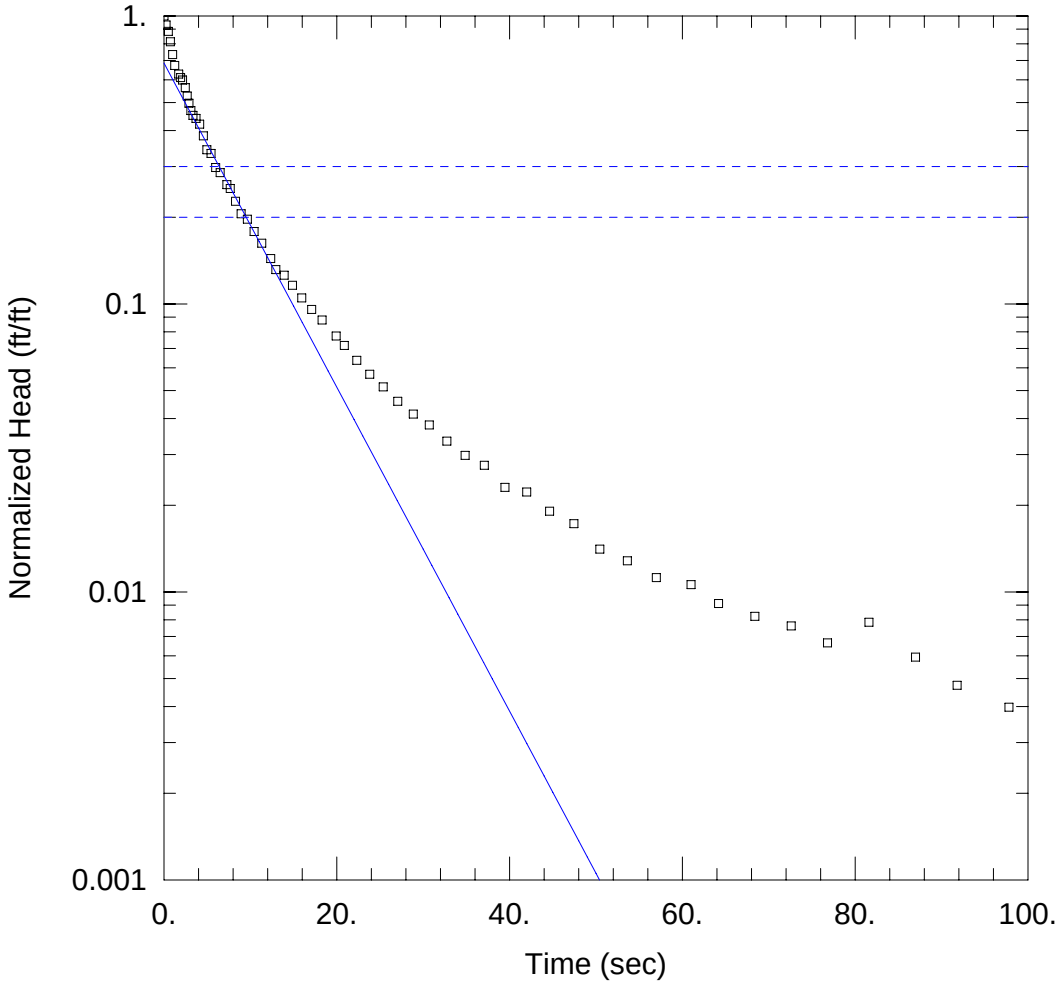
WELL DATA (KAFB106030)

Initial Displacement: 2.379 ft
Total Well Penetration Depth: 28.52 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33.92 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 77.04 ft/day
Le = 1. ft



KAFB106030P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106030P3-BR.aqt
Date: 08/25/11 Time: 10:01:57

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106030
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 0.1

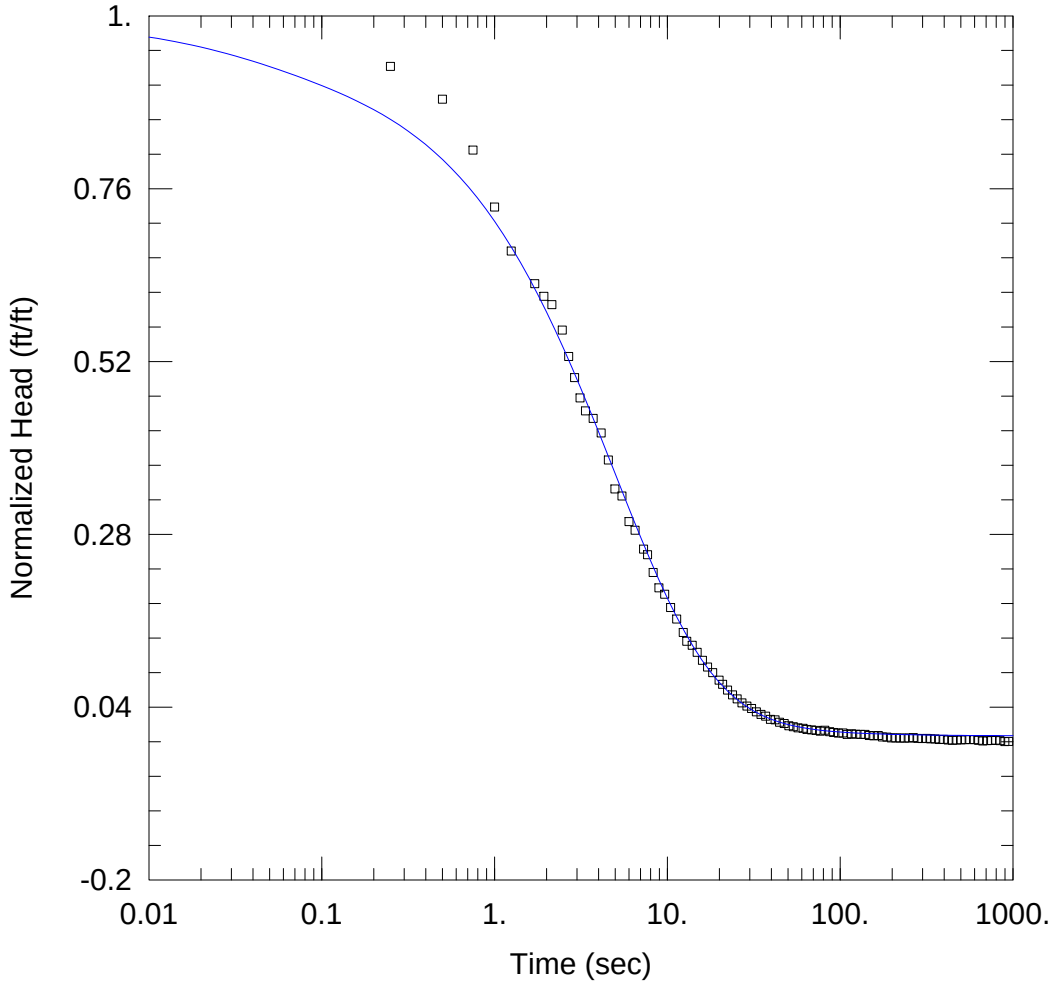
WELL DATA (KAFB106030)

Initial Displacement: 2.17 ft
Total Well Penetration Depth: 28.52 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33.92 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 62.92 ft/day
y0 = 1.488 ft



KAFB106030P3

Data Set: C:\...\KAFB106030P3-KGS[1].aqt
Date: 08/26/11 Time: 21:13:25

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106030
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 35. ft

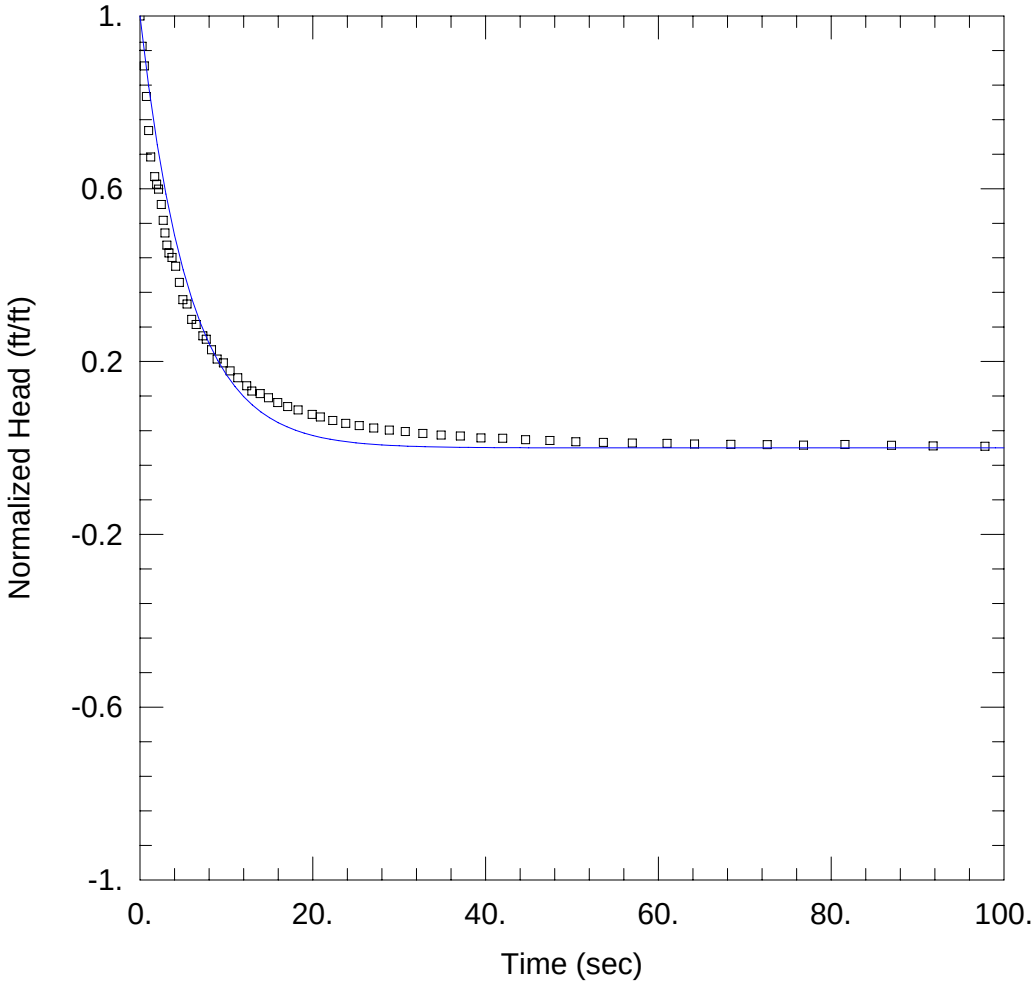
WELL DATA (KAFB106030)

Initial Displacement: 2.17 ft
Total Well Penetration Depth: 28.52 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 33.92 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 69.56 ft/day
Kz/Kr = 0.1
Ss' = 0.001778 ft^{-1}
Ss = 0.000182 ft^{-1}
Kr' = 106.8 ft/day
Kz/Kr' = 1.



KAFB106030P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106030P3-SG.aqt
Date: 08/25/11 Time: 10:02:46

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106030
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 0.1

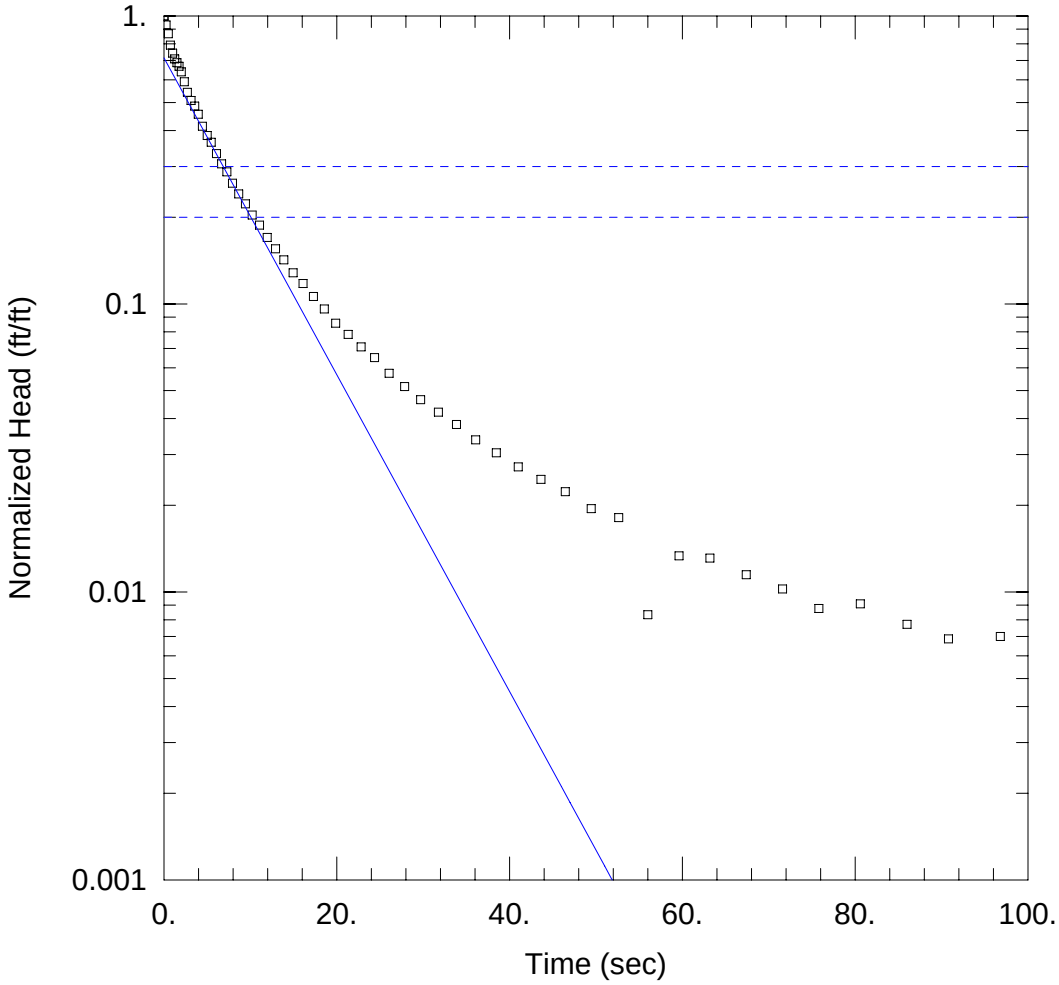
WELL DATA (KAFB106030)

Initial Displacement: 2.17 ft
Total Well Penetration Depth: 28.52 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33.92 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 86.19 ft/day
Le = 1. ft



KAFB106030P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106030P4-BR.aqt
Date: 08/25/11 Time: 10:12:04

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106030
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 0.1

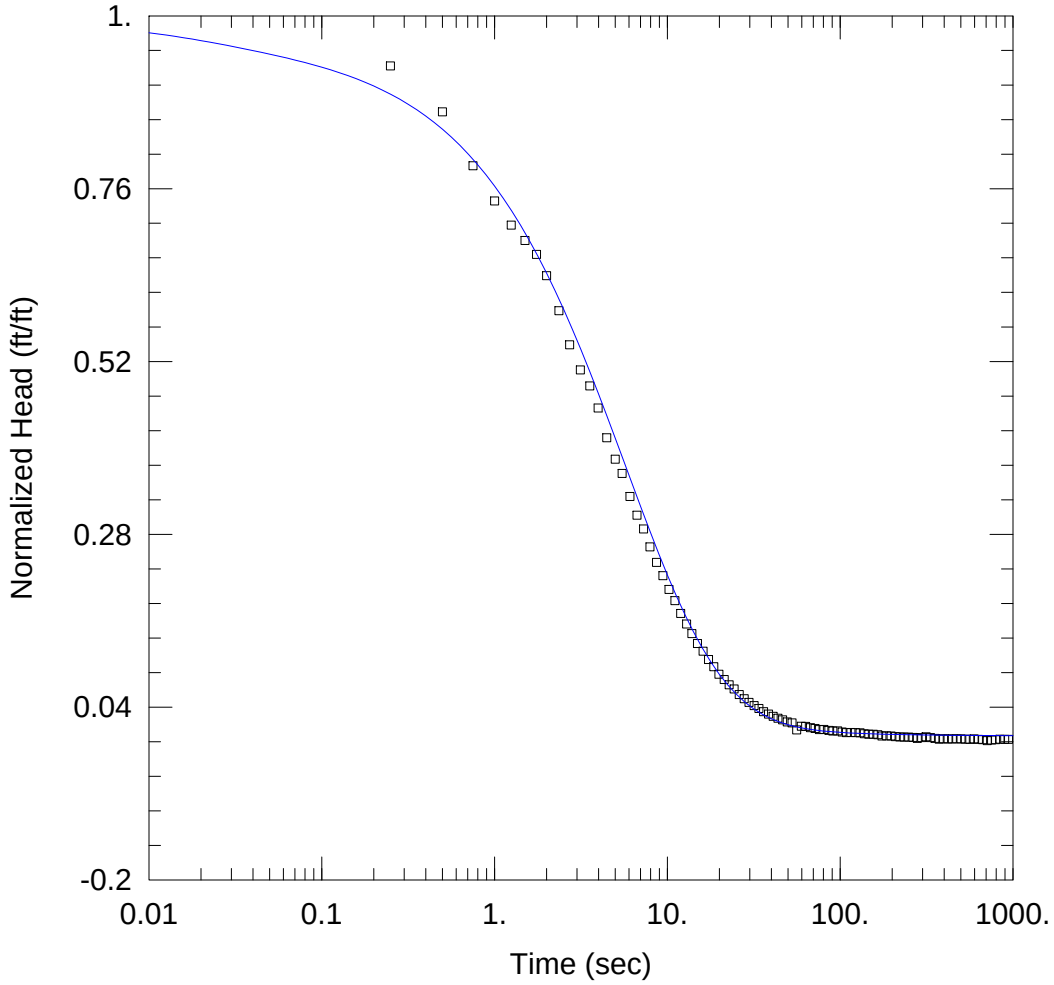
WELL DATA (KAFB106030)

Initial Displacement: 2.542 ft
Total Well Penetration Depth: 28.52 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33.92 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 61.52 ft/day
y0 = 1.818 ft



KAFB106030P4

Data Set: C:\...\KAFB106030P4-KGS[1].aqt
Date: 08/26/11 Time: 21:11:45

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106030
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 35. ft

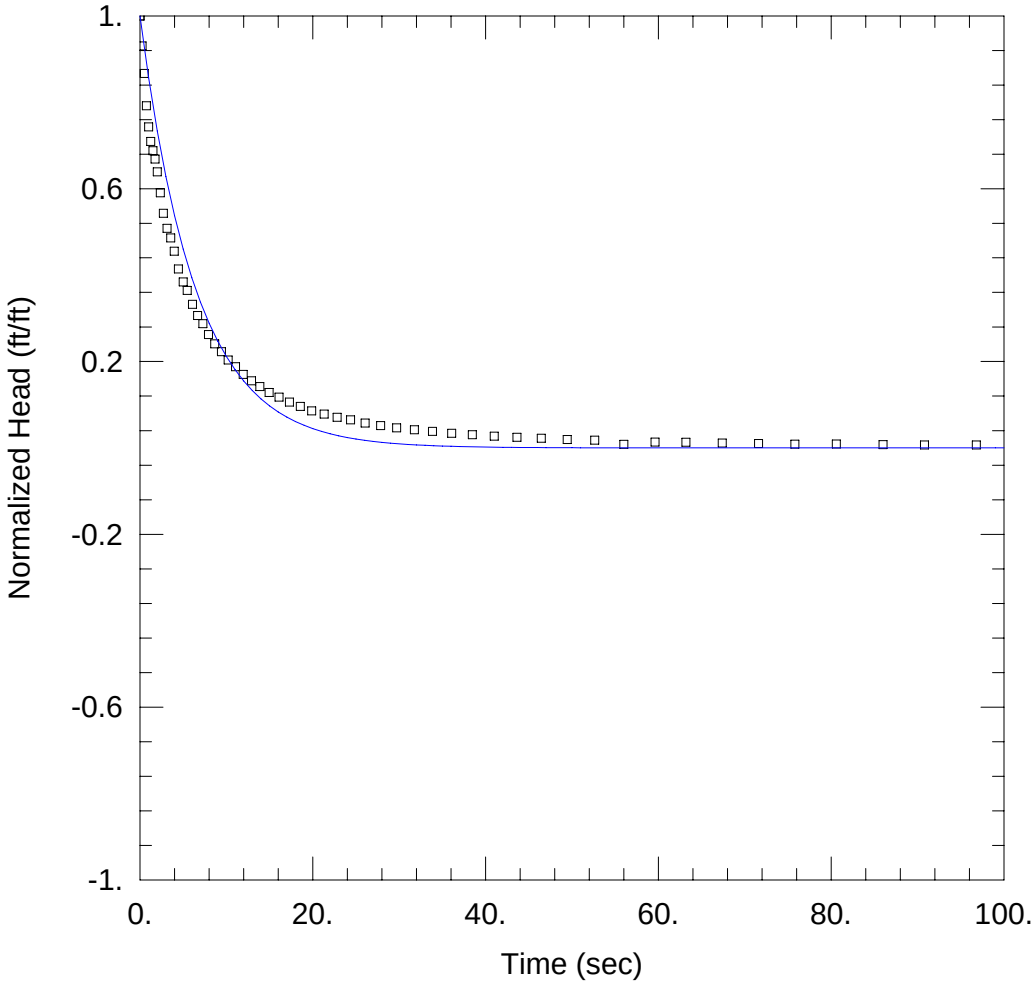
WELL DATA (KAFB106030P1)

Initial Displacement: 2.542 ft
Total Well Penetration Depth: 28.52 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 33.92 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 65.32 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 7.943E-5 ft^{-1}
Kr' = 109.1 ft/day
Kz/Kr' = 1.



KAFB106030P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106030P4-SG.aqt
Date: 08/25/11 Time: 10:06:51

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106030
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 0.1

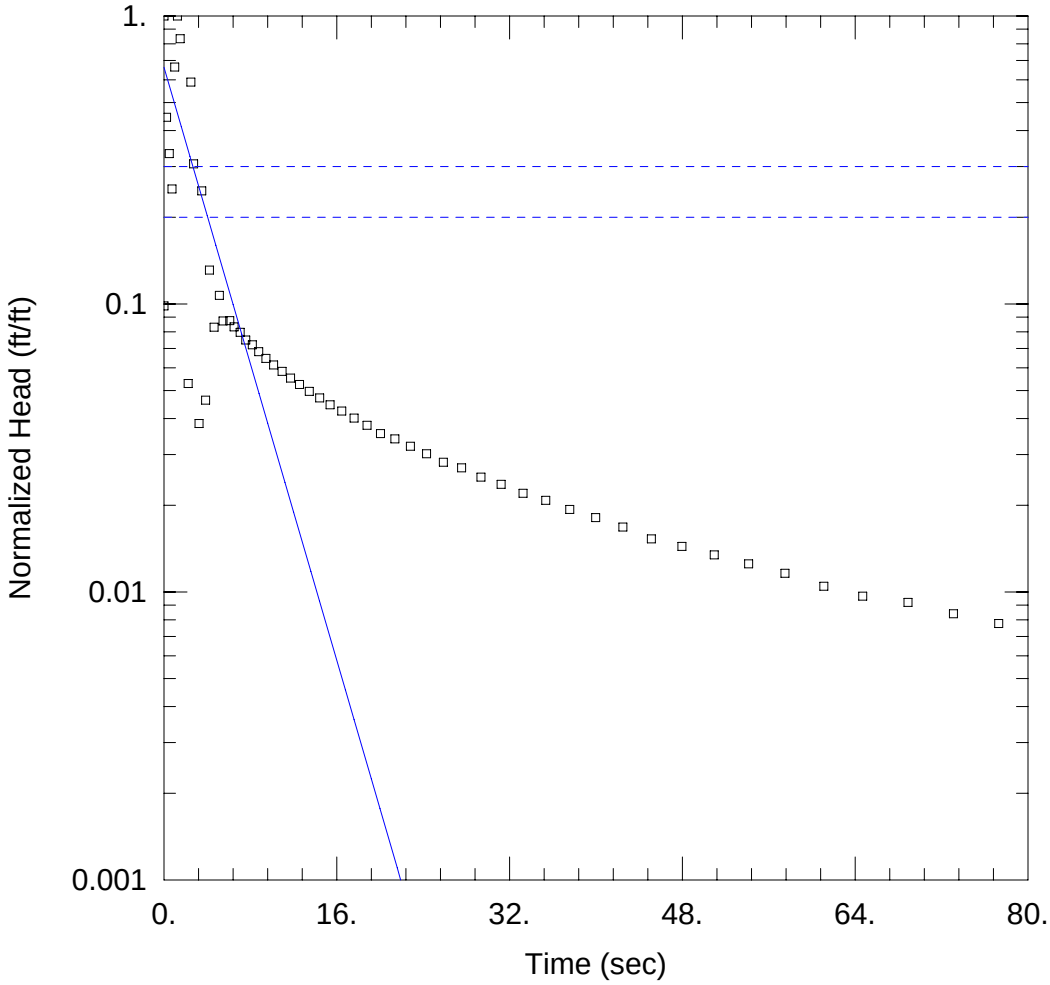
WELL DATA (KAFB106030P1)

Initial Displacement: 2.542 ft
Total Well Penetration Depth: 28.52 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33.92 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 75.43 ft/day
Le = 1. ft



KAFB106032IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106032IN-BR.aqt
Date: 08/29/11 Time: 14:32:35

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106032
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 30.58 ft
Anisotropy Ratio (Kz/Kr): 0.1

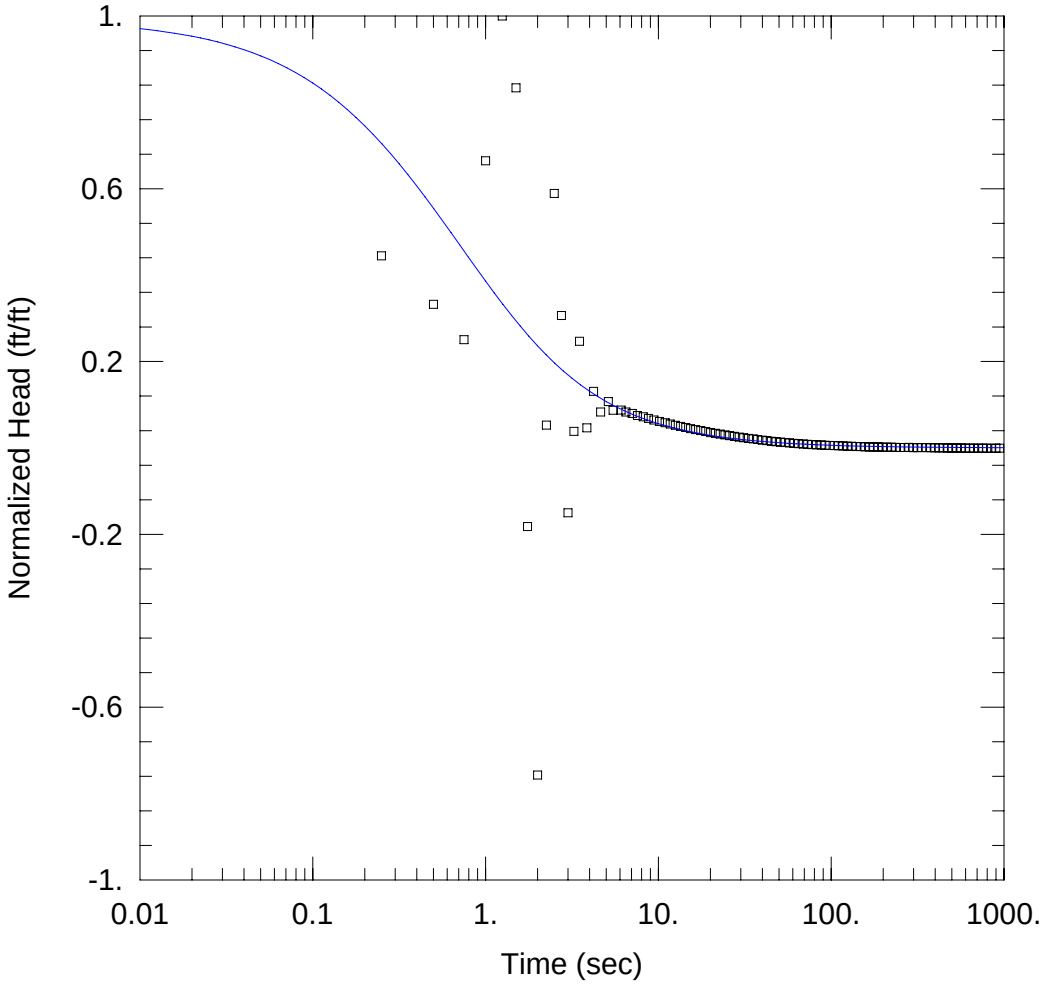
WELL DATA (KAFB106032)

Initial Displacement: 10.12 ft
Total Well Penetration Depth: 13.58 ft
Casing Radius: 0.198 ft
Static Water Column Height: 18.08 ft
Screen Length: 13.58 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 139.4 ft/day
y0 = 6.713 ft



KAFB106032IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106032IN-KGS.aqt
Date: 08/29/11 Time: 14:35:11

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106032
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 30.58 ft

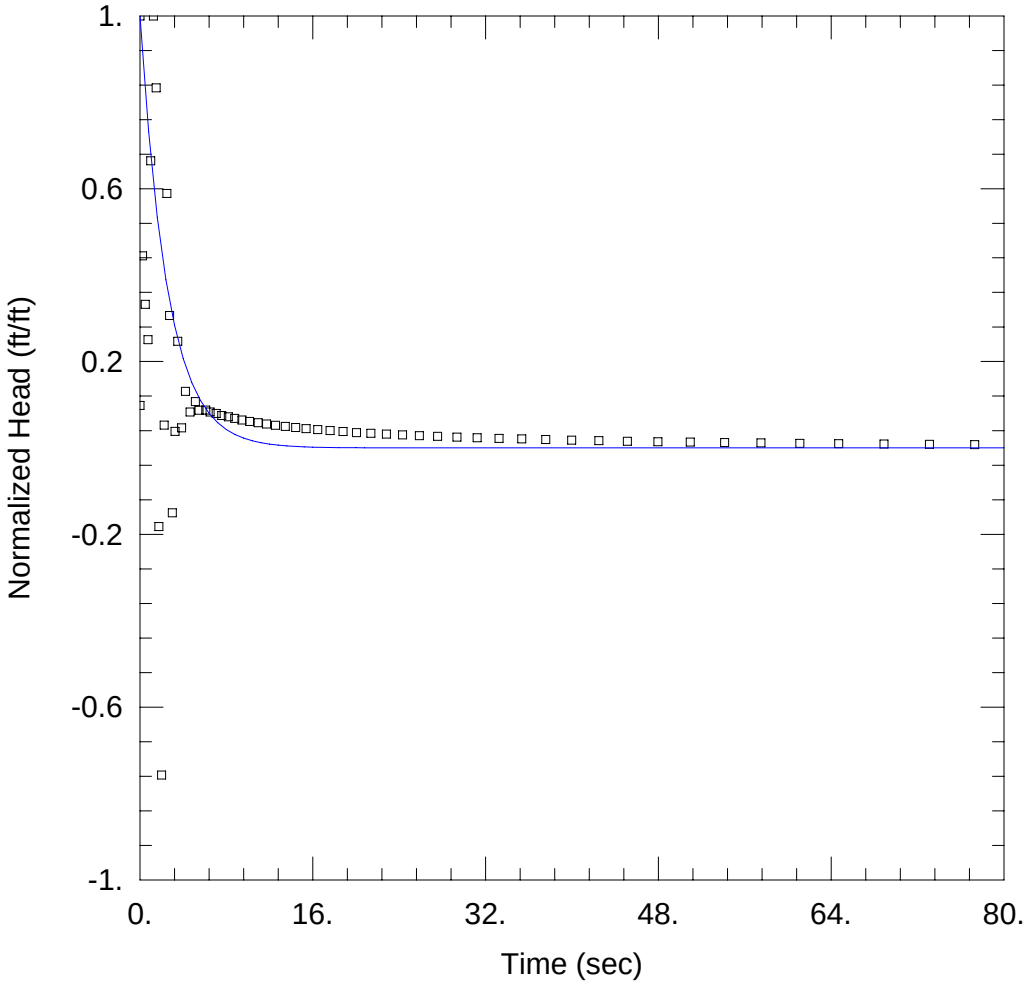
WELL DATA (KAFB106032)

Initial Displacement: 10.12 ft
Total Well Penetration Depth: 13.58 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 18.08 ft
Screen Length: 13.58 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 96.41 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.02399 ft^{-1}
Kr' = 188.5 ft/day
Kz/Kr' = 1.



KAFB106032IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106032IN-SG.aqt
Date: 08/29/11 Time: 14:33:57

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106032
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 30.58 ft
Anisotropy Ratio (Kz/Kr): 0.1

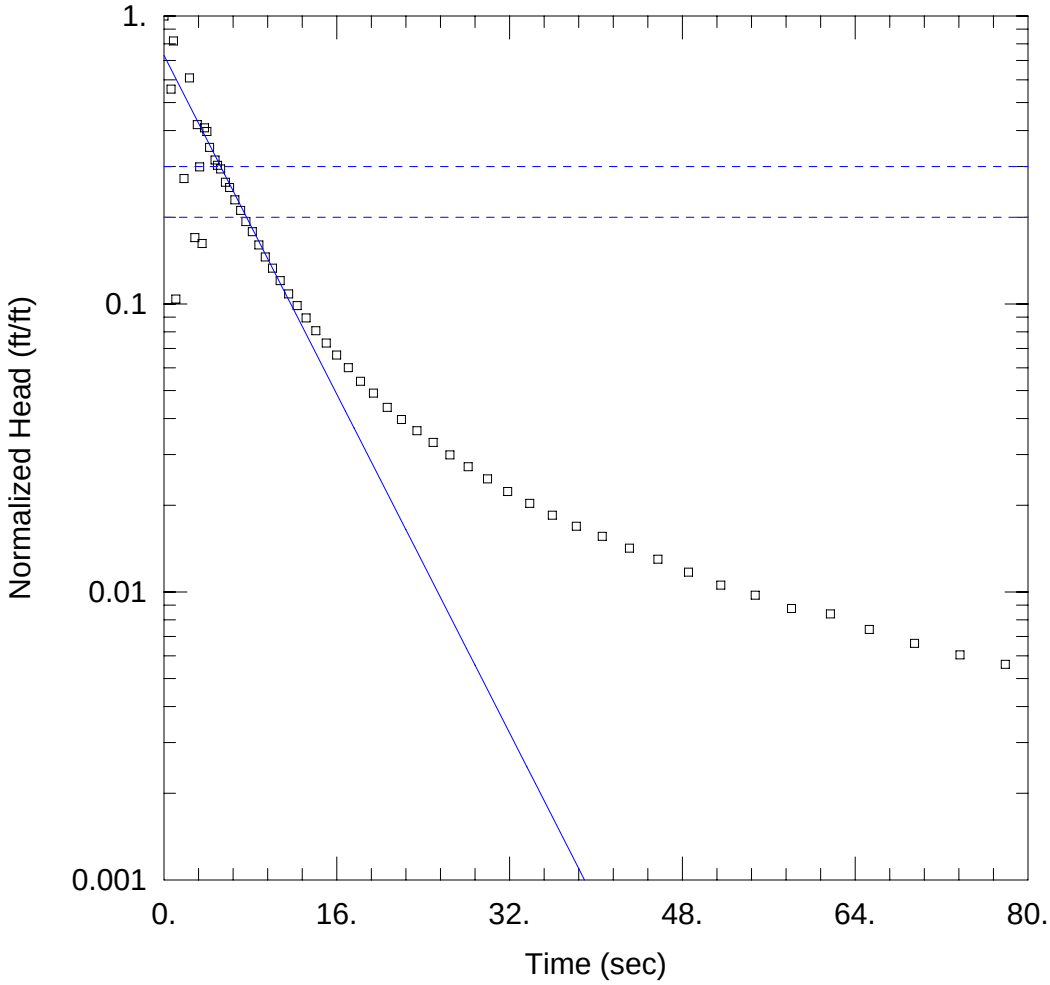
WELL DATA (KAFB106032)

Initial Displacement: 10.12 ft
Total Well Penetration Depth: 13.58 ft
Casing Radius: 0.198 ft
Static Water Column Height: 18.08 ft
Screen Length: 13.58 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 185. ft/day
Le = 1. ft



KAFB106032OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106032OUT-BR.aqt
Date: 08/29/11 Time: 14:36:14

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106032
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 30.58 ft
Anisotropy Ratio (Kz/Kr): 0.1

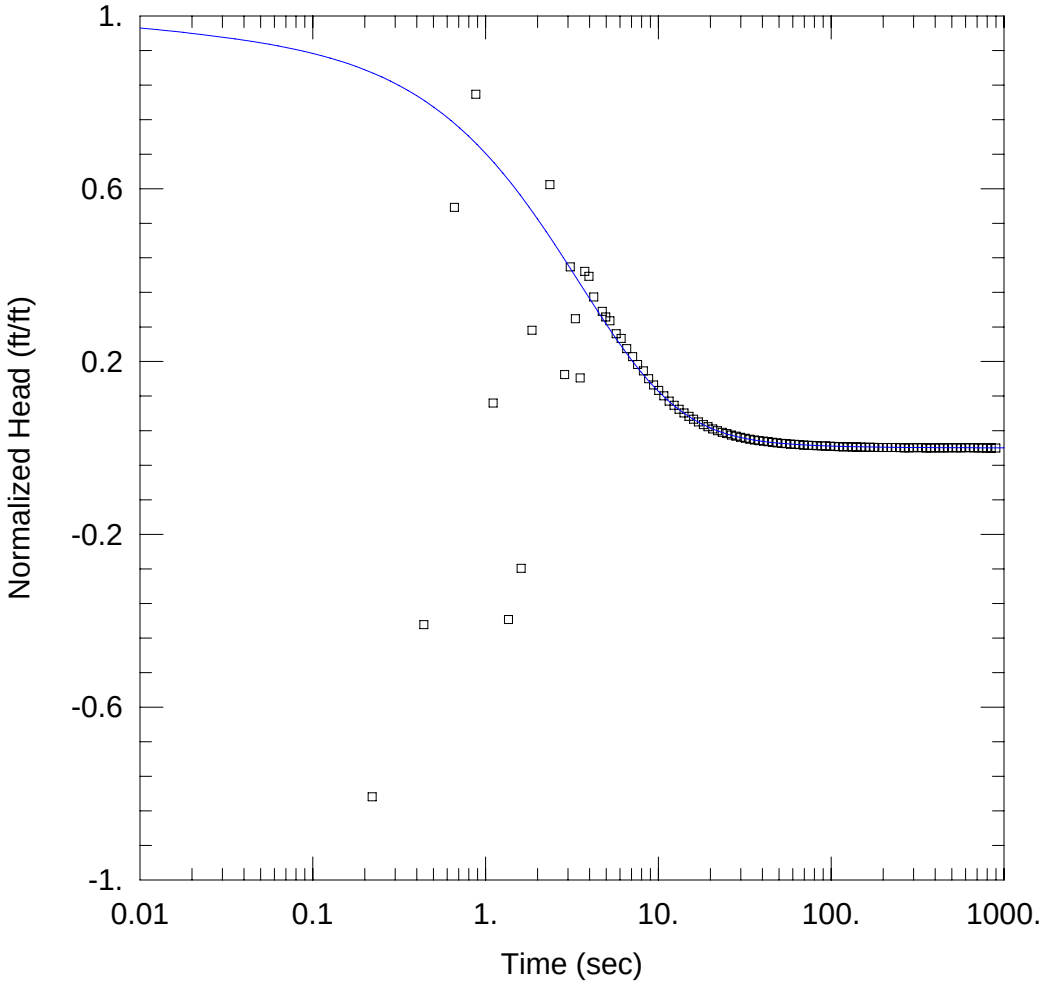
WELL DATA (KAFB106032)

Initial Displacement: 10.56 ft
Total Well Penetration Depth: 13.58 ft
Casing Radius: 0.198 ft
Static Water Column Height: 18.08 ft
Screen Length: 13.58 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 79.6 ft/day
y0 = 7.699 ft



KAFB106032OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106032OUT-KGS.aqt
Date: 08/29/11 Time: 14:37:13

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106032
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 30.58 ft

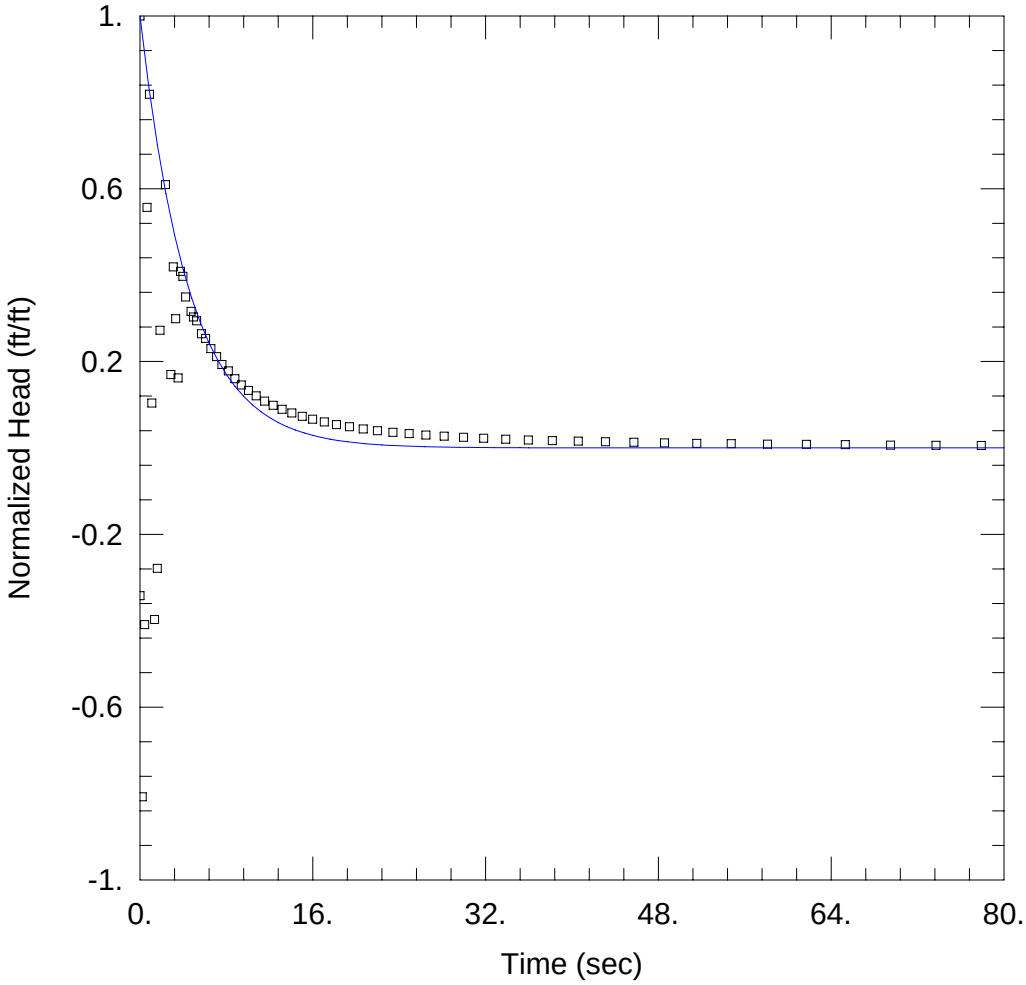
WELL DATA (KAFB106032)

Initial Displacement: 10.56 ft
Total Well Penetration Depth: 13.58 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 18.08 ft
Screen Length: 13.58 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 108.2 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.000166 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106032OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106032OUT-SG.aqt
Date: 08/29/11 Time: 14:37:55

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106032
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 30.58 ft
Anisotropy Ratio (Kz/Kr): 0.1

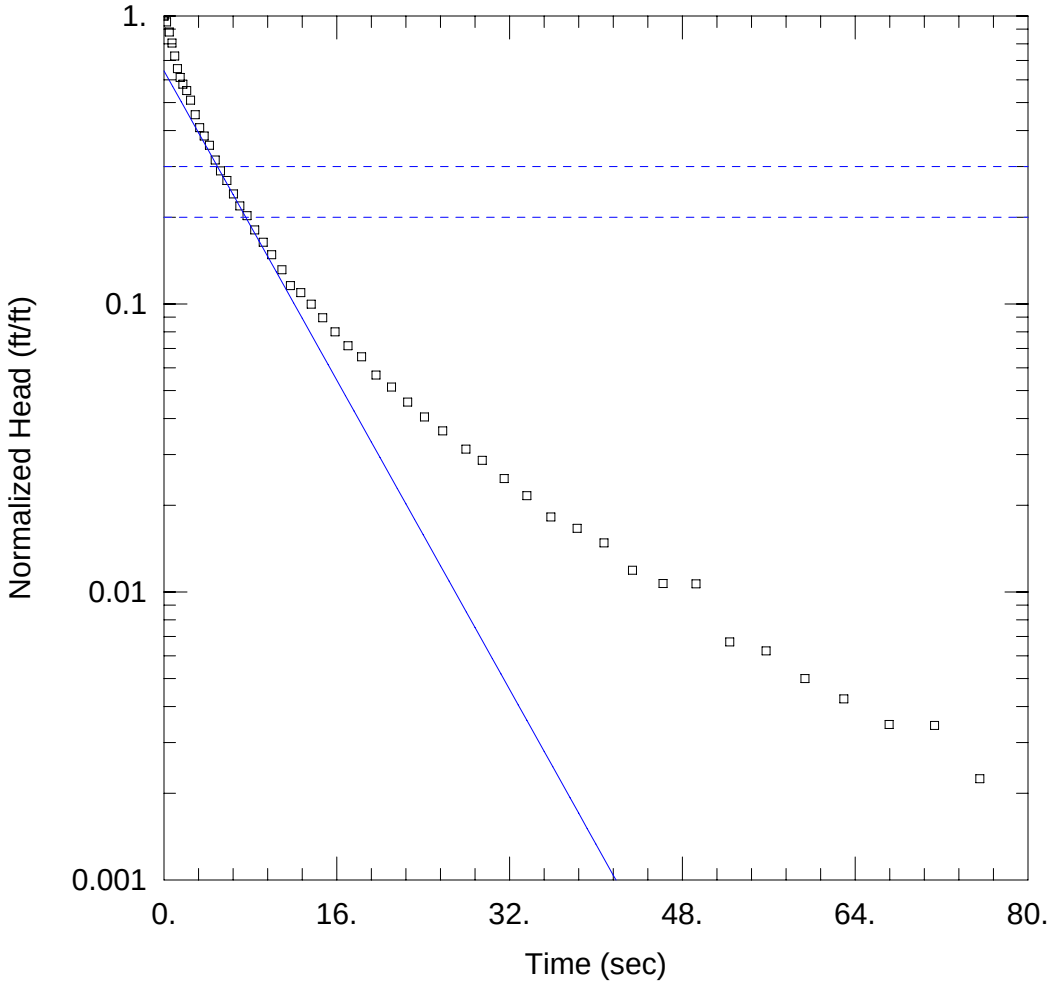
WELL DATA (KAFB106032)

Initial Displacement: 10.56 ft
Total Well Penetration Depth: 13.58 ft
Casing Radius: 0.198 ft
Static Water Column Height: 18.08 ft
Screen Length: 13.58 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 104.1 ft/day
Le = 1. ft



KAFB106033P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106033P1-BR.aqt
Date: 08/25/11 Time: 10:29:45

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106033
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 45. ft
Anisotropy Ratio (Kz/Kr): 0.1

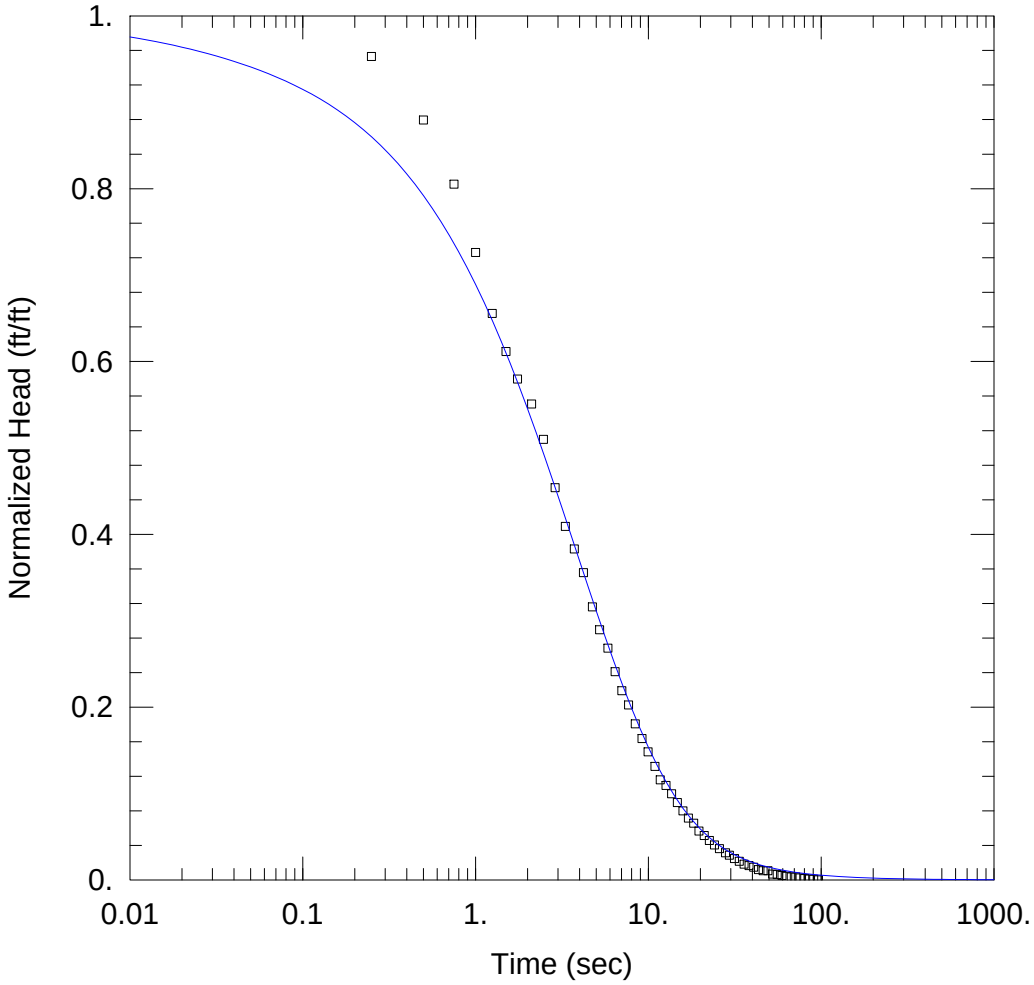
WELL DATA (KAFB106033)

Initial Displacement: 2.437 ft
Total Well Penetration Depth: 29.8 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 73.98 ft/day
y0 = 1.57 ft



KAFB106033P1

Data Set: C:\...\KAFB106033P1-KGS[1].aqt
Date: 08/26/11 Time: 20:17:15

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106033
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 45. ft

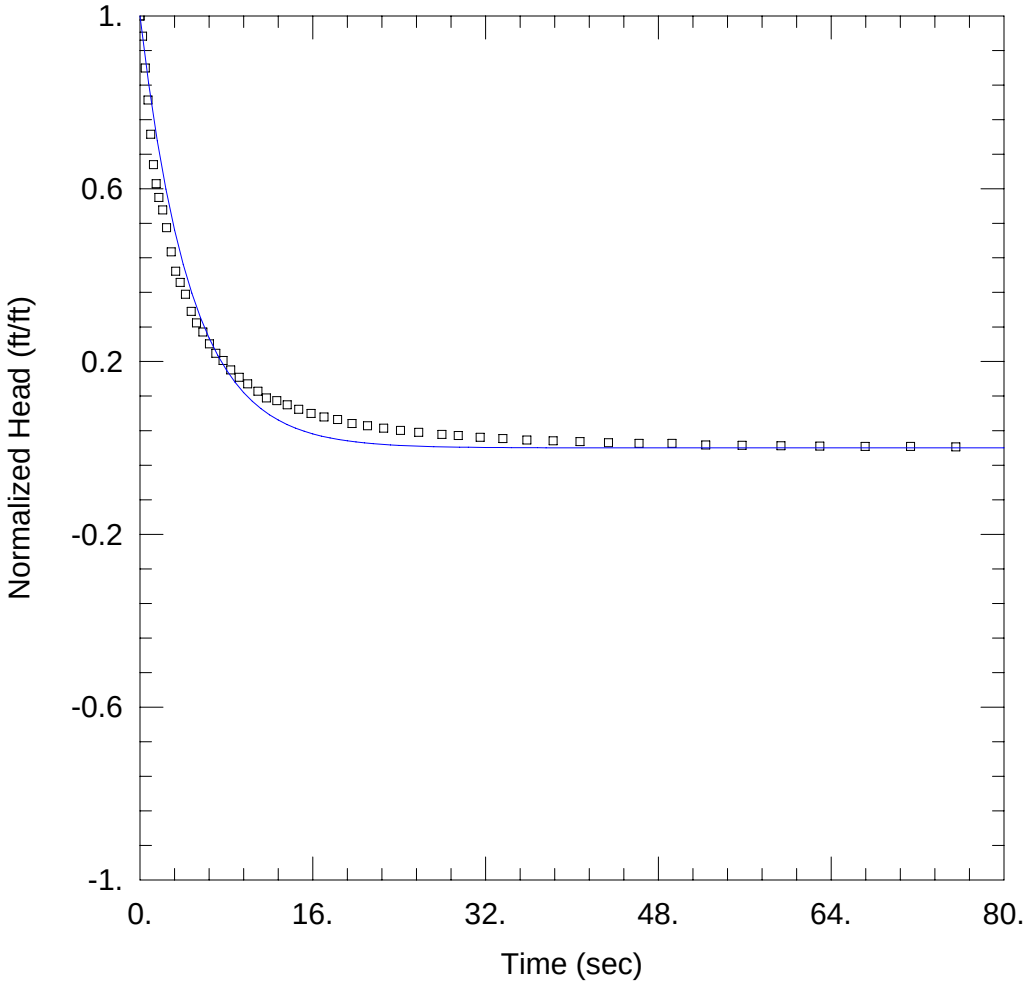
WELL DATA (KAFB106033)

Initial Displacement: 2.437 ft
Total Well Penetration Depth: 29.8 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.415 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 75.86 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.0003758 ft^{-1}
Kr' = 117.6 ft/day
Kz/Kr' = 1.



KAFB106033P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106033P1-SG.aqt
Date: 08/25/11 Time: 10:30:27

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106033
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 45. ft
Anisotropy Ratio (Kz/Kr): 0.1

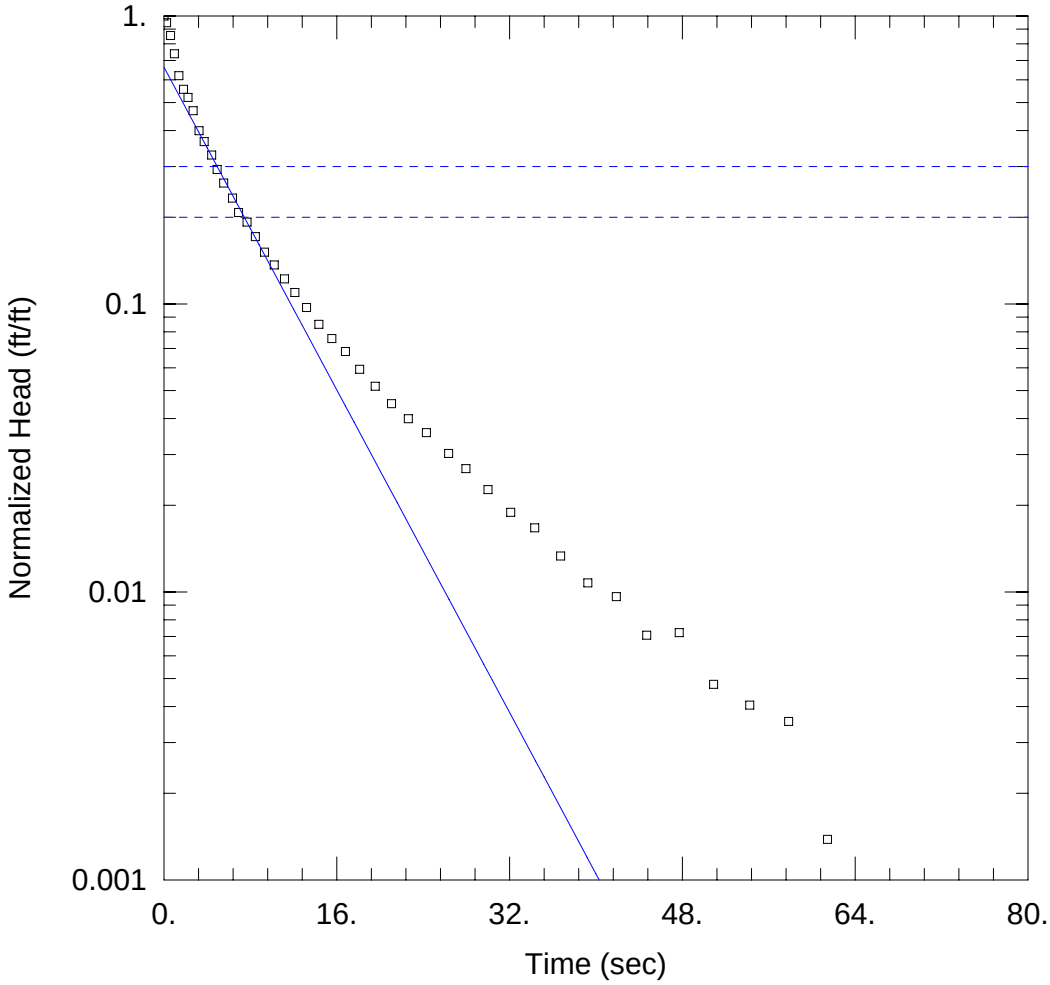
WELL DATA (KAFB106033)

Initial Displacement: 2.437 ft
Total Well Penetration Depth: 29.8 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 102.4 ft/day
Le = 1. ft



KAFB106033P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106033P2-BR.aqt
Date: 08/25/11 Time: 10:32:45

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106033
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 45. ft
Anisotropy Ratio (Kz/Kr): 0.1

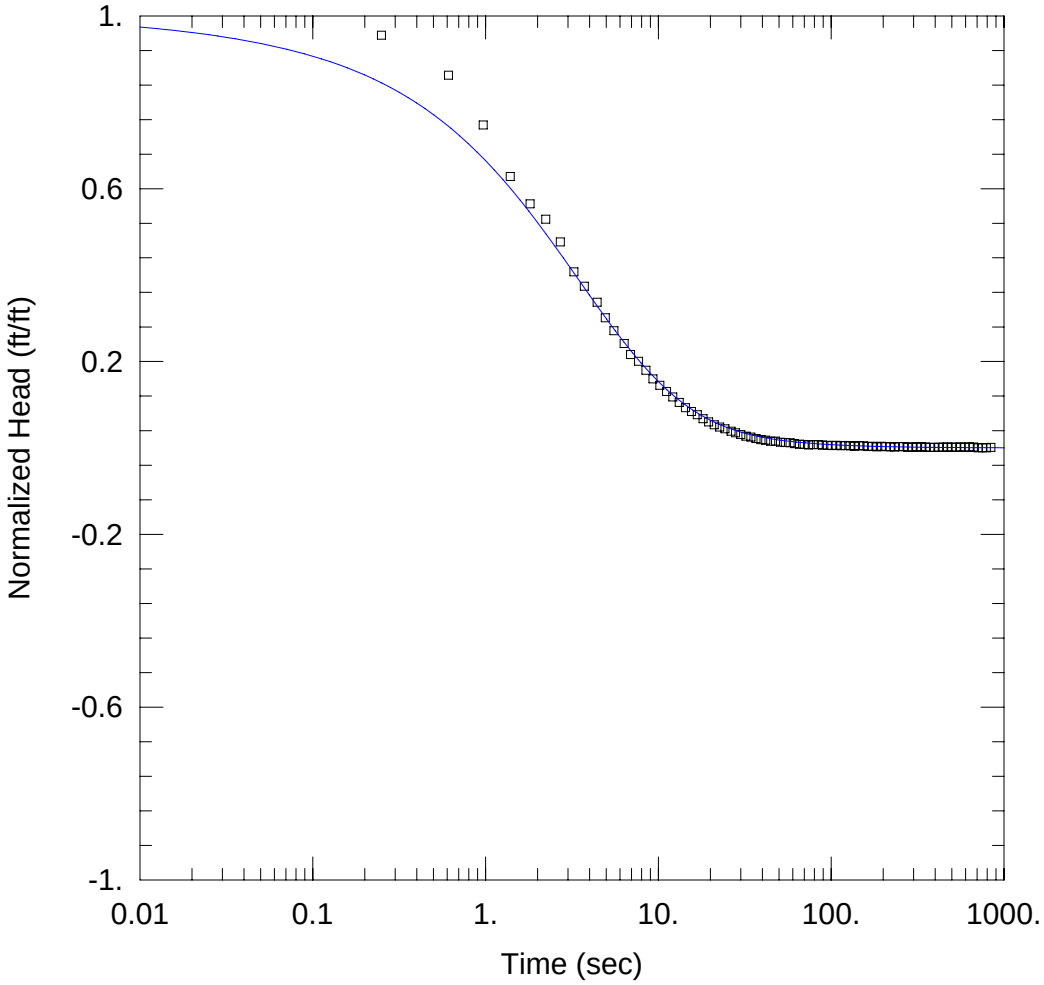
WELL DATA (KAFB106033)

Initial Displacement: 2.38 ft
Total Well Penetration Depth: 29.8 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 77.17 ft/day
y0 = 1.579 ft



KAFB106033P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106033P2-KGS.aqt
Date: 08/25/11 Time: 10:35:29

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106033
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 45. ft

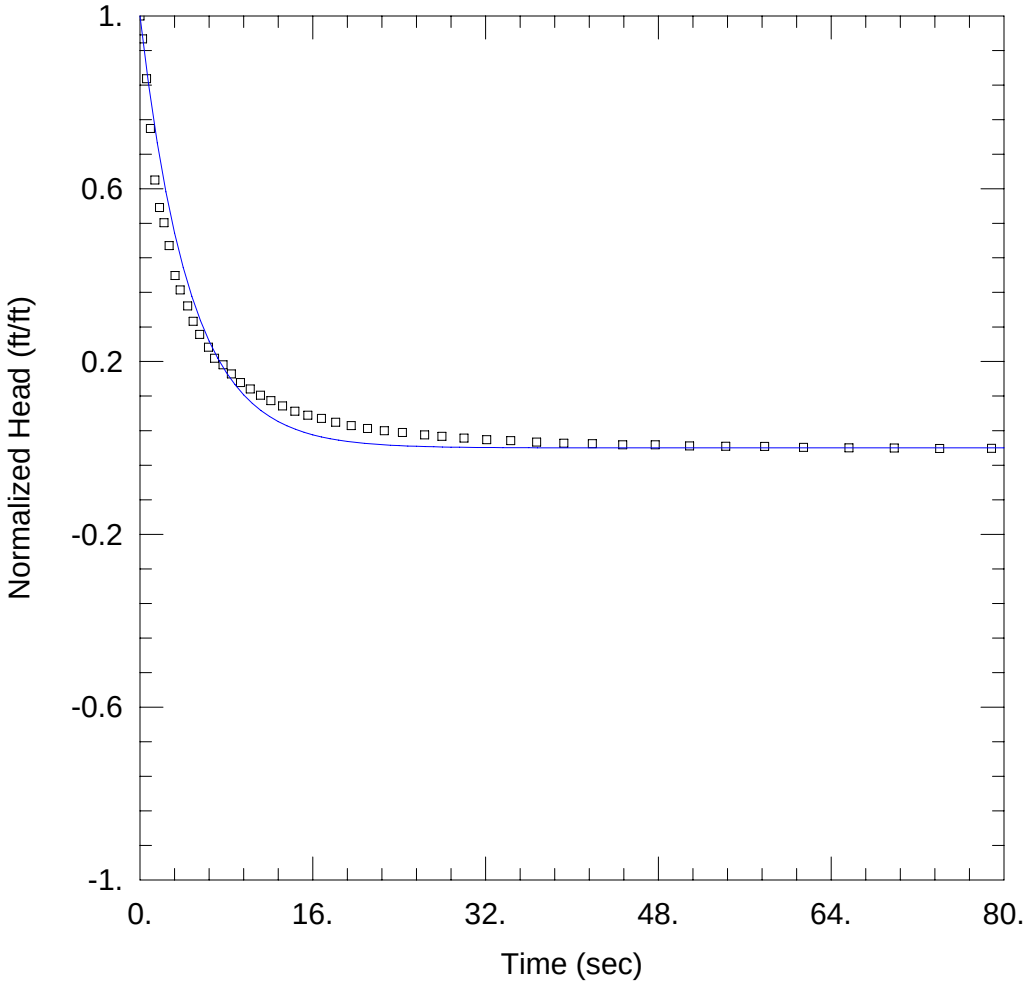
WELL DATA (KAFB106033)

Initial Displacement: 2.38 ft
Total Well Penetration Depth: 29.8 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.415 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 65.5 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.0008128 ft^{-1}
Kr' = 129.5 ft/day
Kz/Kr' = 1.



KAFB106033P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106033P2-SG.aqt
Date: 08/25/11 Time: 10:33:32

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106033
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 45. ft
Anisotropy Ratio (Kz/Kr): 0.1

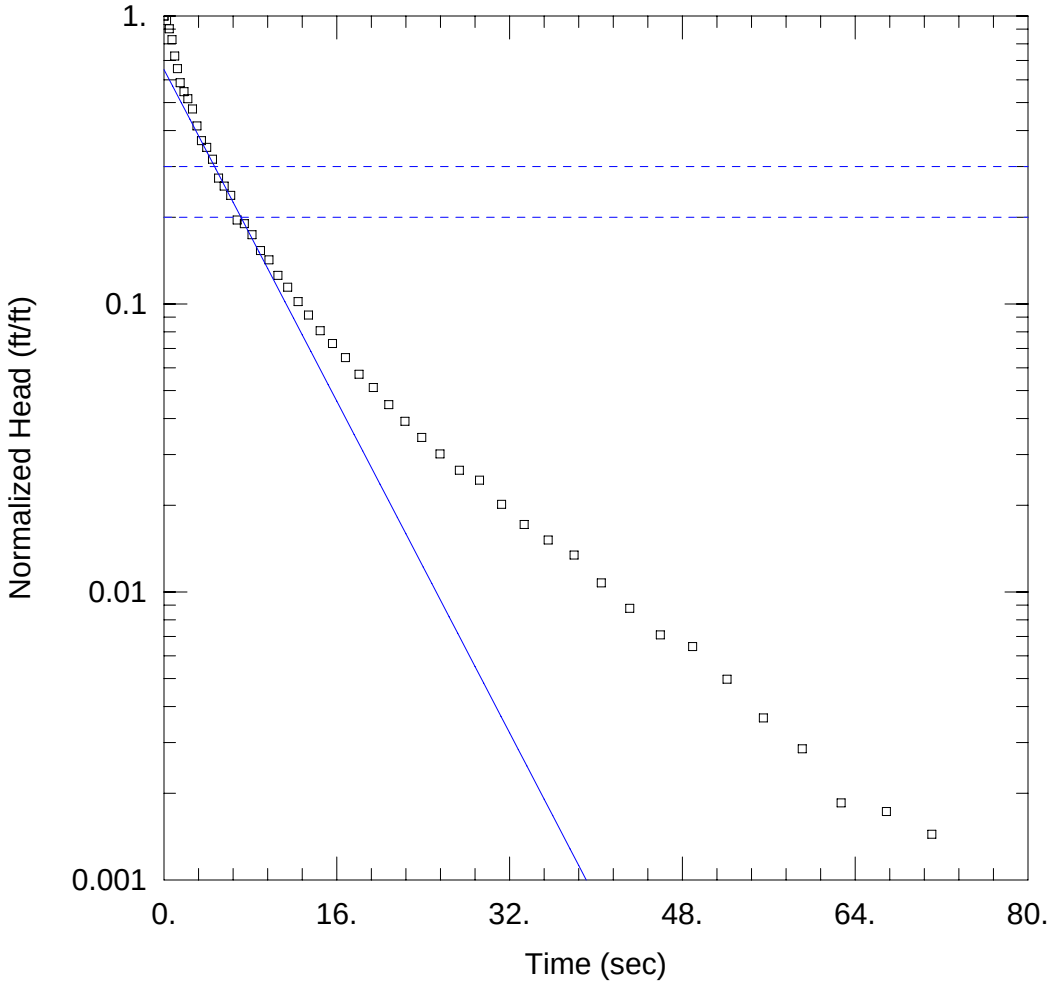
WELL DATA (KAFB106033)

Initial Displacement: 2.38 ft
Total Well Penetration Depth: 29.8 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 104.5 ft/day
Le = 1. ft



KAFB106033P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106033P3-BR.aqt
Date: 08/25/11 Time: 10:37:43

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106033
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 45. ft
Anisotropy Ratio (Kz/Kr): 0.1

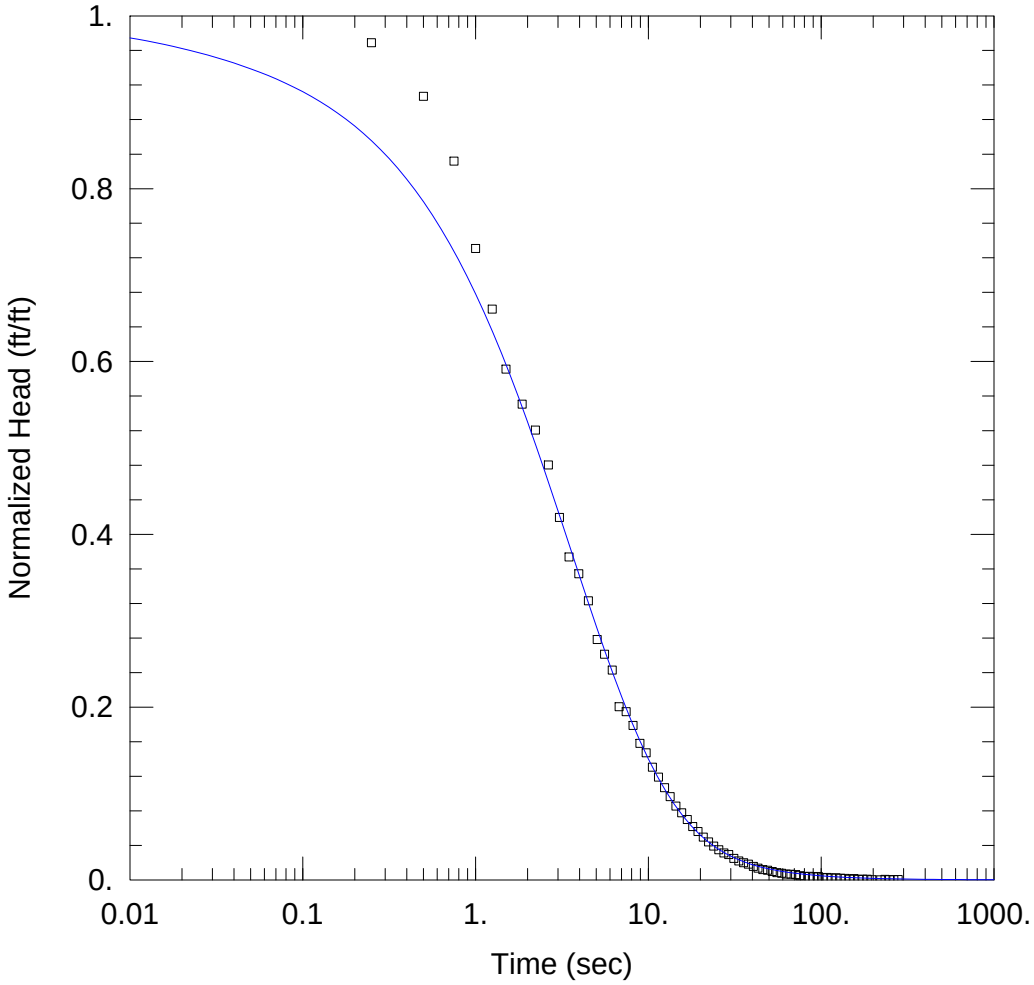
WELL DATA (KAFB106033)

Initial Displacement: 2.074 ft
Total Well Penetration Depth: 29.8 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 79.33 ft/day
y0 = 1.351 ft



KAFB106033P3

Data Set: C:\...\KAFB106033P3-KGS[1].aqt
Date: 08/26/11 Time: 20:17:40

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106033
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 45. ft

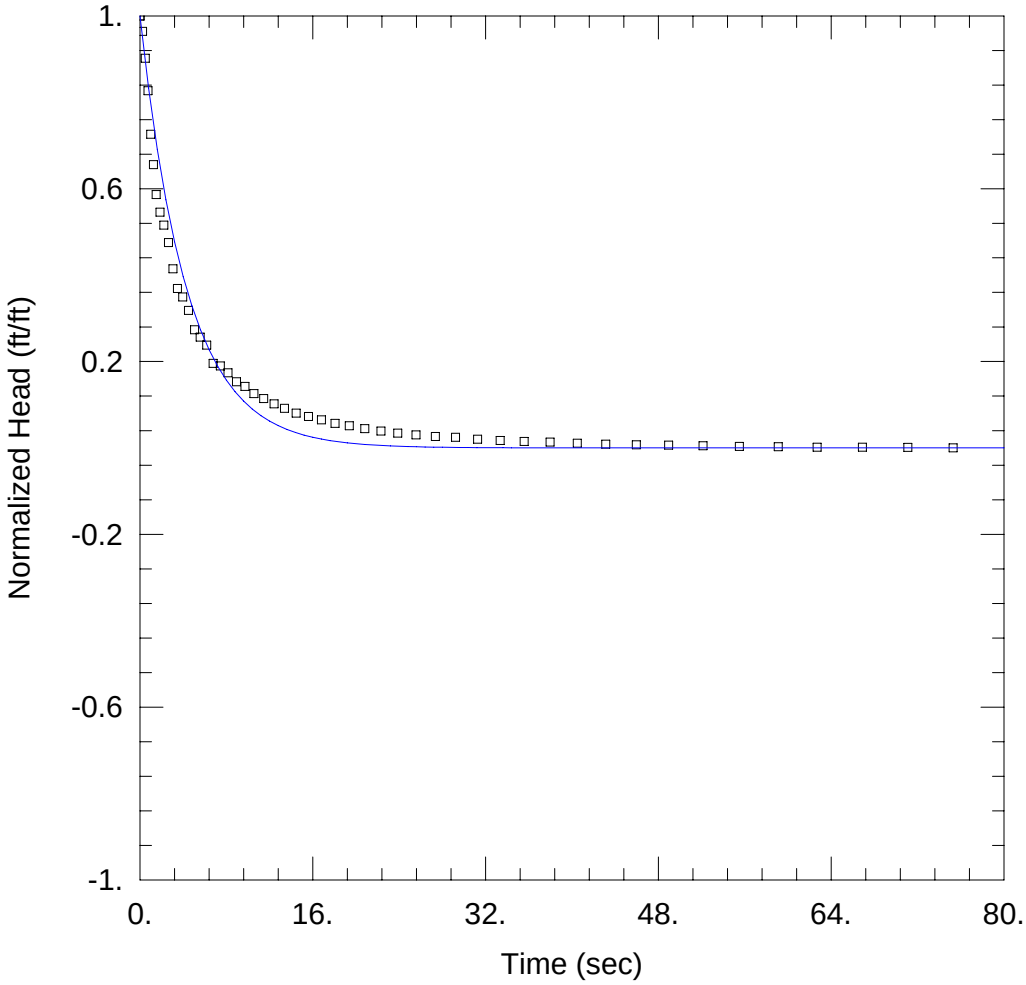
WELL DATA (KAFB106033)

Initial Displacement: 2.074 ft
Total Well Penetration Depth: 29.8 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.415 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 82.97 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.0003388 ft^{-1}
Kr' = 126.8 ft/day
Kz/Kr' = 1.



KAFB106033P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106033P3-SG.aqt
Date: 08/25/11 Time: 10:38:28

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106033
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 45. ft
Anisotropy Ratio (Kz/Kr): 0.1

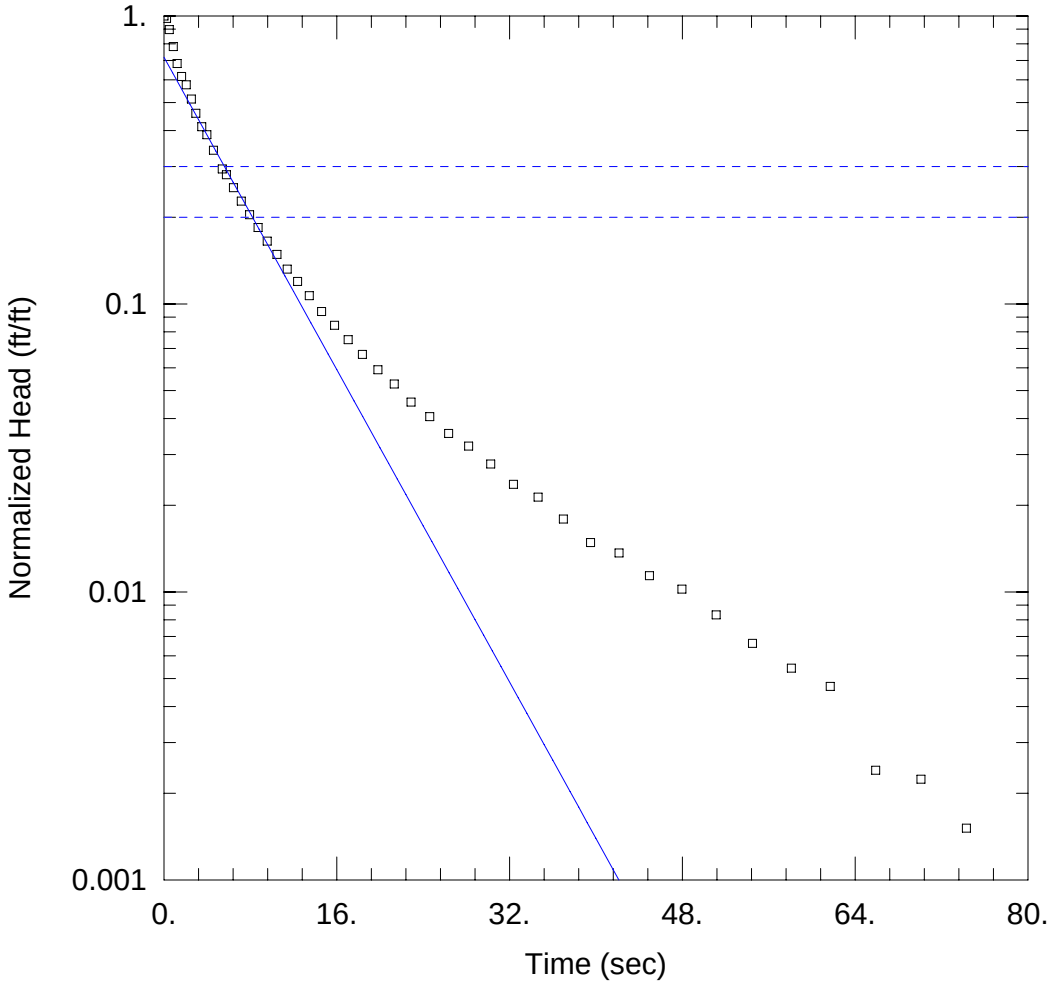
WELL DATA (KAFB106033)

Initial Displacement: 2.074 ft
Total Well Penetration Depth: 29.8 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 110.8 ft/day
Le = 1. ft



KAFB106033P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106033P4-BR.aqt
Date: 08/25/11 Time: 10:44:52

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106033
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 45. ft
Anisotropy Ratio (Kz/Kr): 0.1

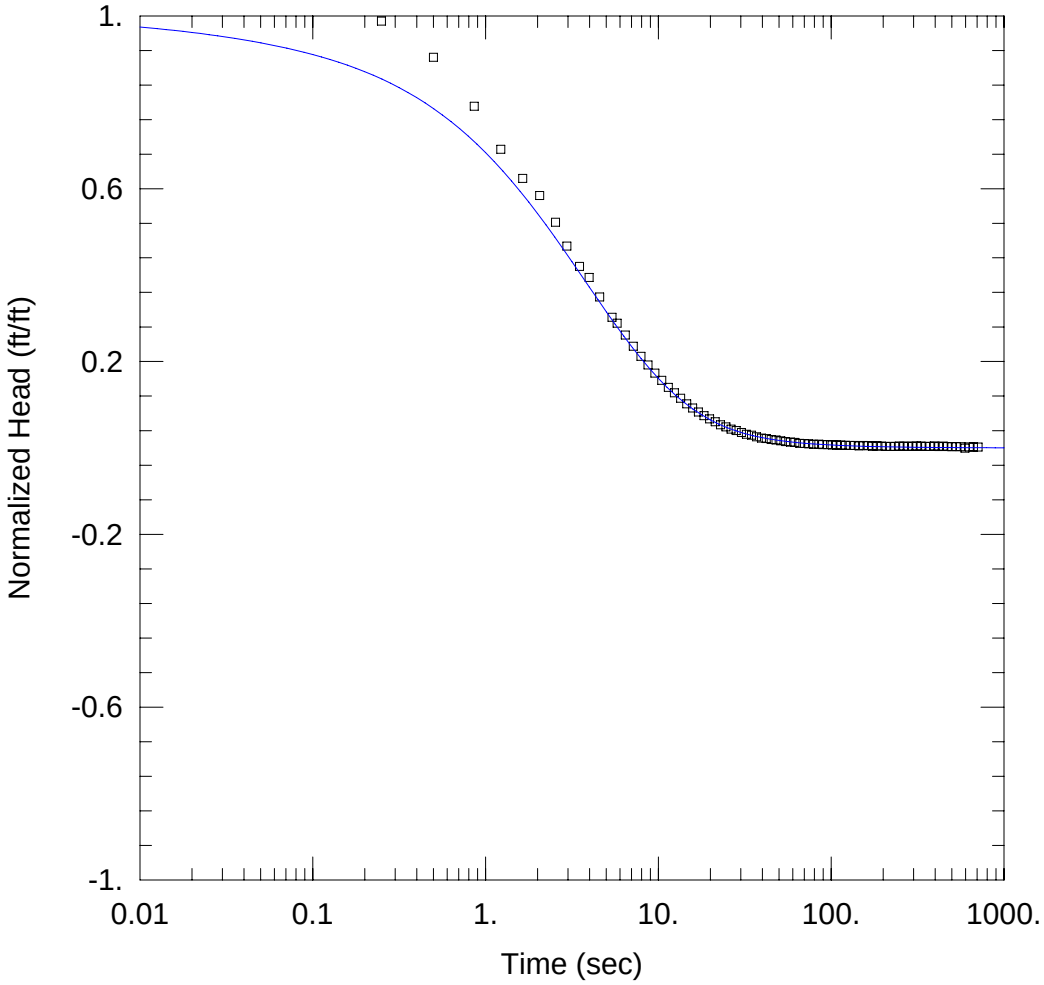
WELL DATA (KAFB106033)

Initial Displacement: 2.498 ft
Total Well Penetration Depth: 29.8 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 74.73 ft/day
y0 = 1.795 ft



KAFB106033P4

Data Set: C:\...\KAFB106033P4-KGS[1].aqt
Date: 11/01/11 Time: 16:25:07

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106033
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 45. ft

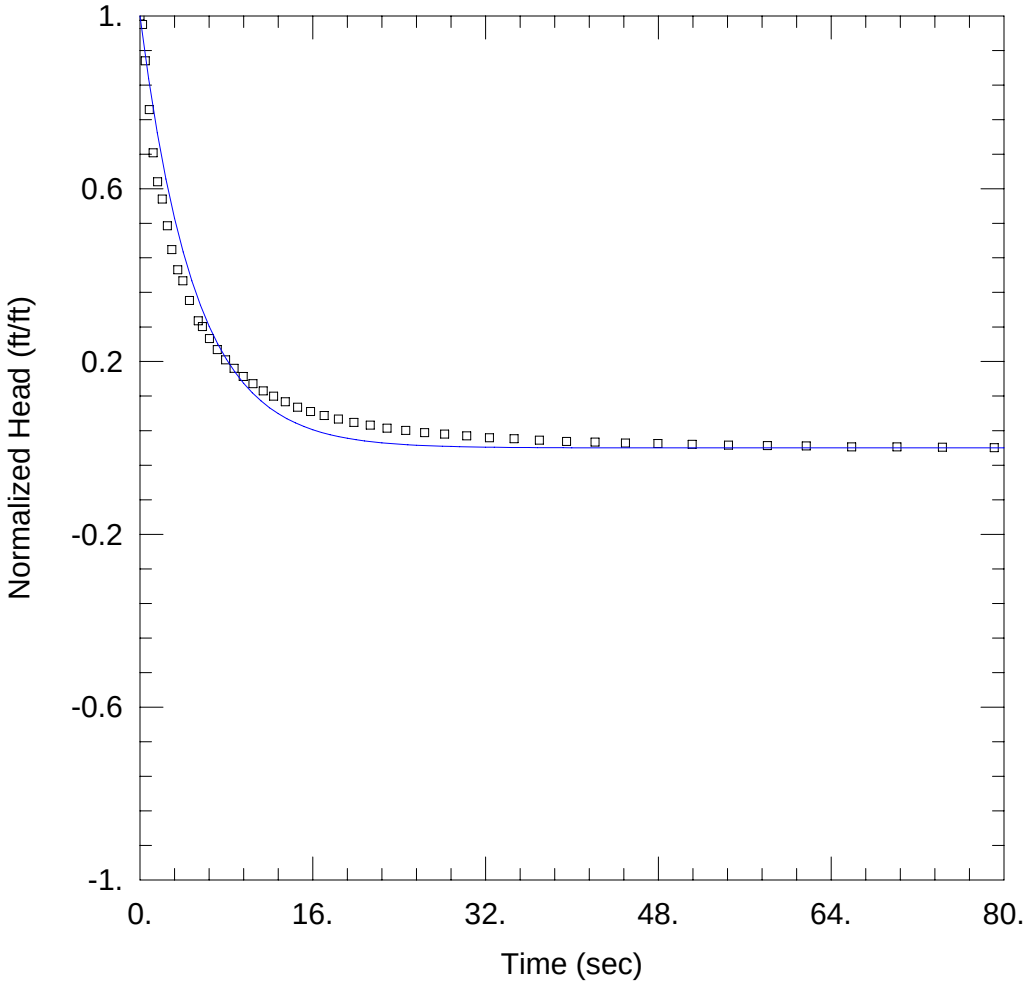
WELL DATA (KAFB106033)

Initial Displacement: 2.498 ft
Total Well Penetration Depth: 29.8 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.415 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 67.72 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.0005129 ft^{-1}
Kr' = 130. ft/day
Kz/Kr' = 1.



KAFB106033P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106033P4-SG.aqt
Date: 08/25/11 Time: 10:49:39

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106033
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 45. ft
Anisotropy Ratio (Kz/Kr): 0.1

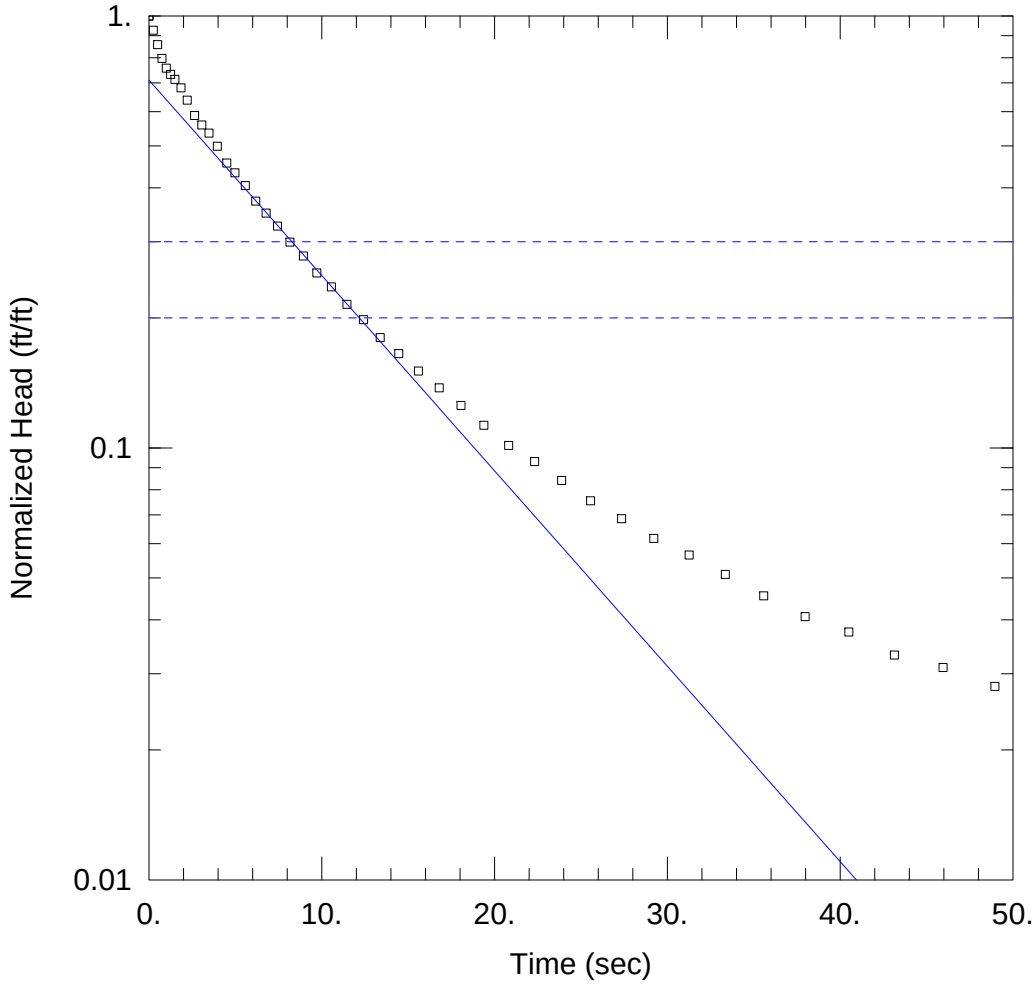
WELL DATA (KAFB106033)

Initial Displacement: 2.498 ft
Total Well Penetration Depth: 29.8 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 94.74 ft/day
Le = 1. ft



KAFB106034P1

Data Set: C:\...\KAFB106034P1-BR[1].aqt
Date: 08/26/11 Time: 20:06:45

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106034
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 30.5 ft Anisotropy Ratio (Kz/Kr): 0.1

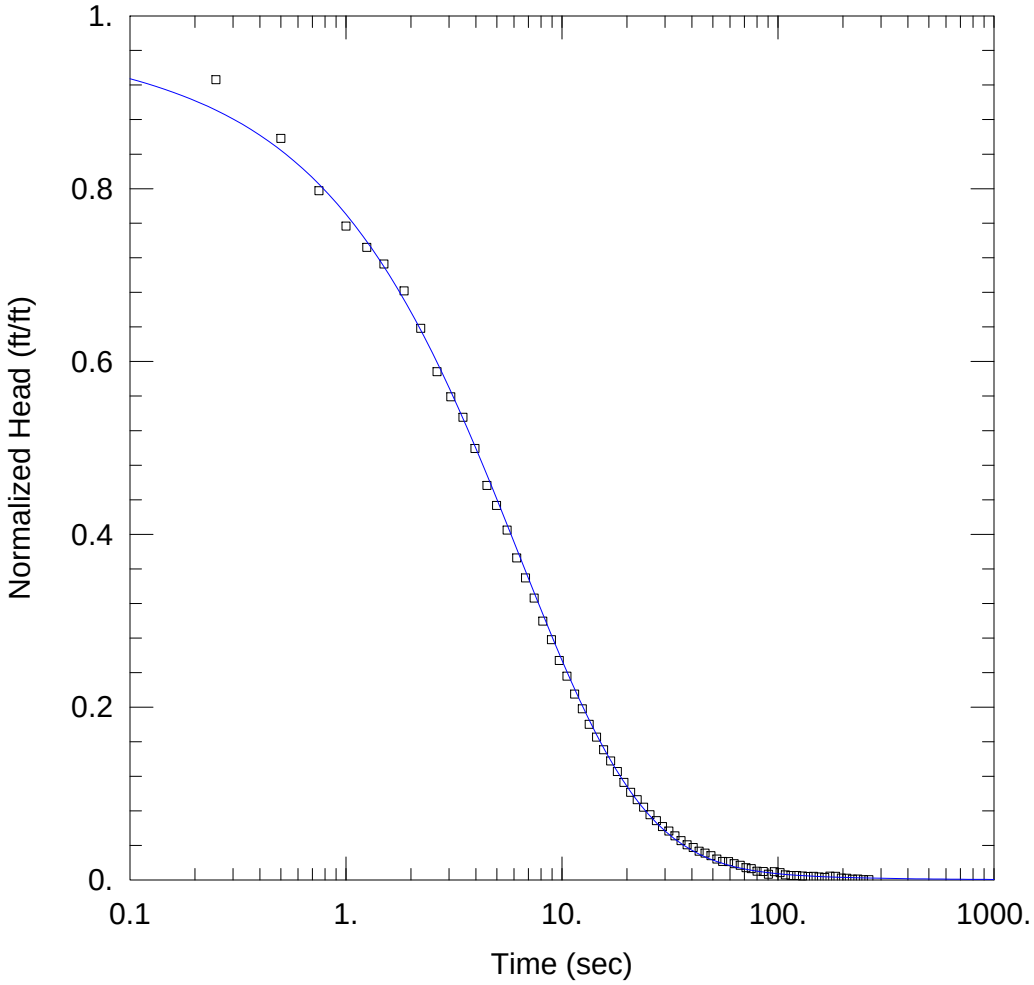
WELL DATA (KAFB106034)

Initial Displacement: 2.649 ft
Total Well Penetration Depth: 54.05 ft
Casing Radius: 0.198 ft
Static Water Column Height: 59.05 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 60.4 ft/day y0 = 1.881 ft



KAFB106034P1

Data Set: C:\...\KAFB106034P1-KGS[1].aqt
Date: 08/26/11 Time: 20:07:51

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106034
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 30.5 ft

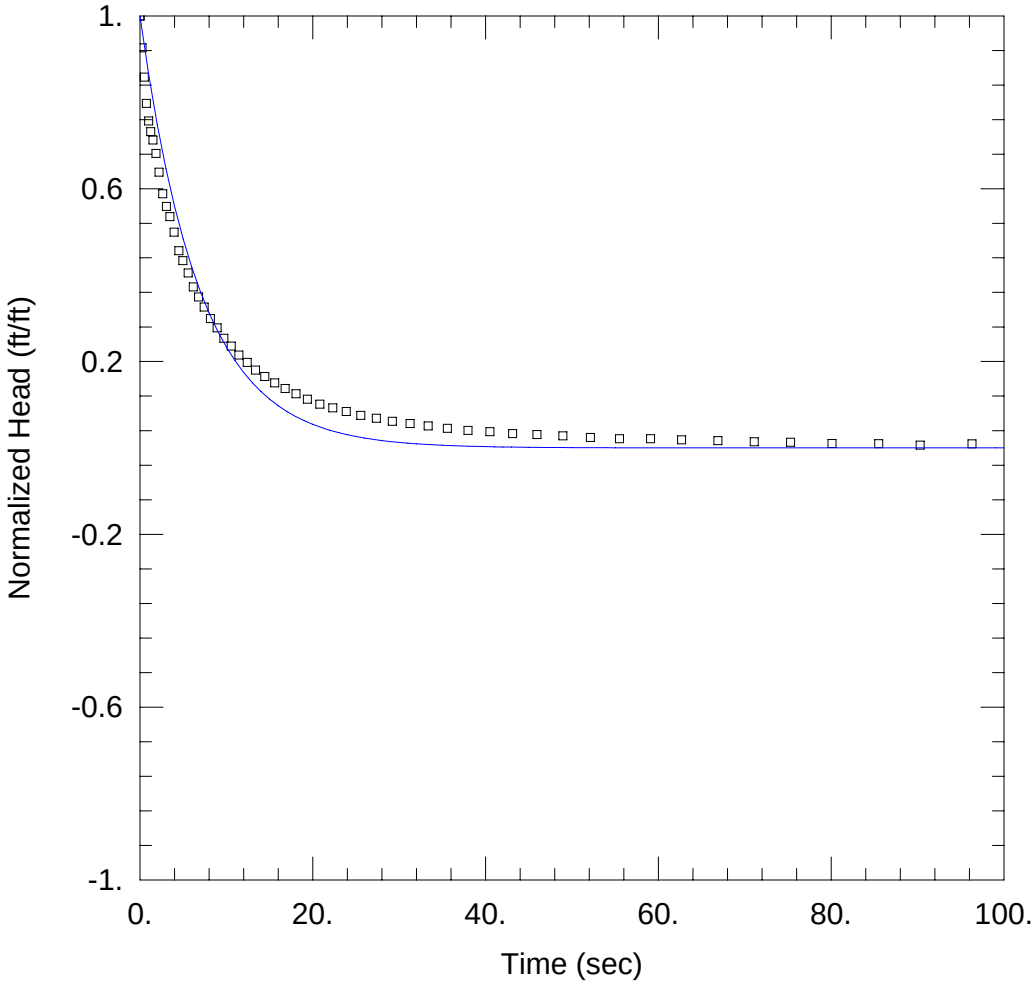
WELL DATA (KAFB106034)

Initial Displacement: 2.649 ft
Total Well Penetration Depth: 54.05 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 59.05 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 53.15 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.0001202 ft^{-1}
Kr' = 117.6 ft/day
Kz/Kr' = 1.



KAFB106034P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106034P1-SG.aqt
Date: 08/25/11 Time: 10:56:39

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106034
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 30.5 ft
Anisotropy Ratio (Kz/Kr): 0.1

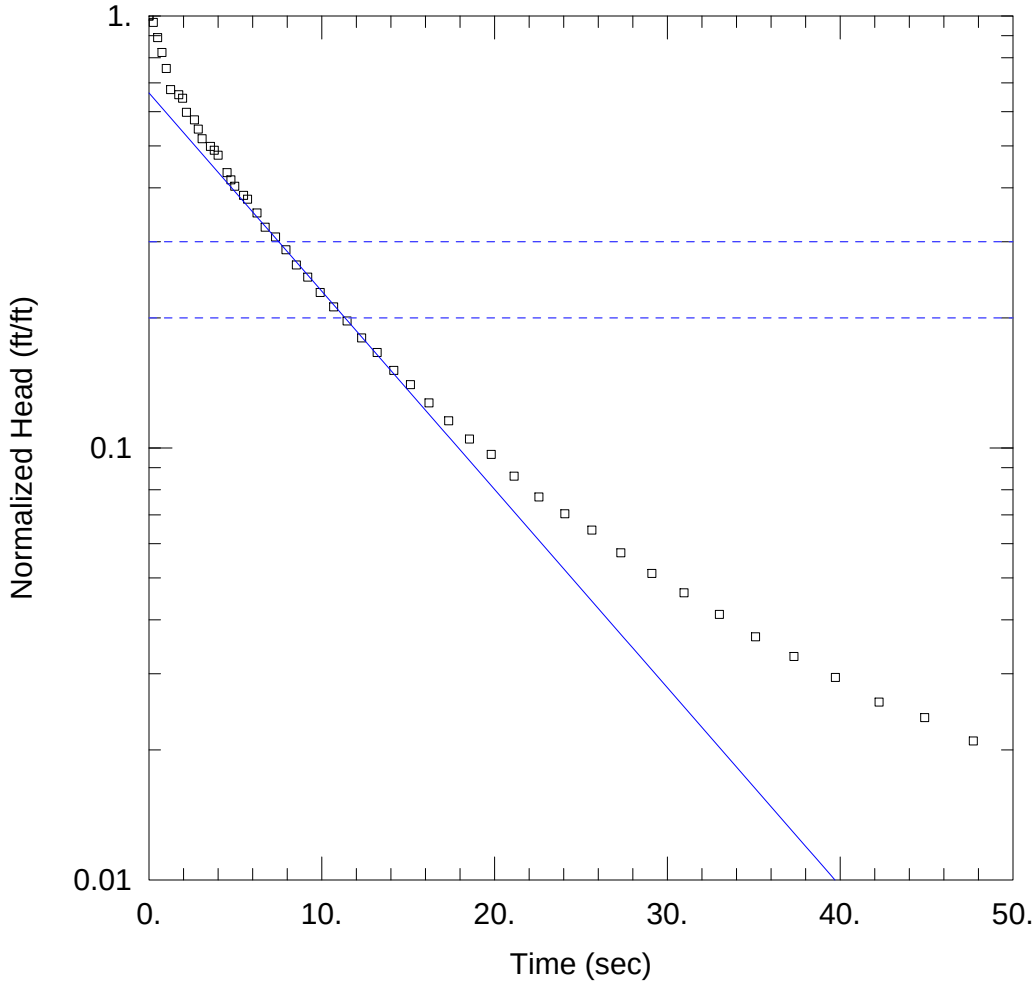
WELL DATA (KAFB106034)

Initial Displacement: 2.649 ft
Total Well Penetration Depth: 54.05 ft
Casing Radius: 0.198 ft
Static Water Column Height: 59.05 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 84.39 ft/day
Le = 1. ft



KAFB106034P2

Data Set: C:\...\KAFB106034P2-BR[1].aqt
Date: 08/26/11 Time: 20:08:52

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106034
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 30.5 ft Anisotropy Ratio (Kz/Kr): 0.1

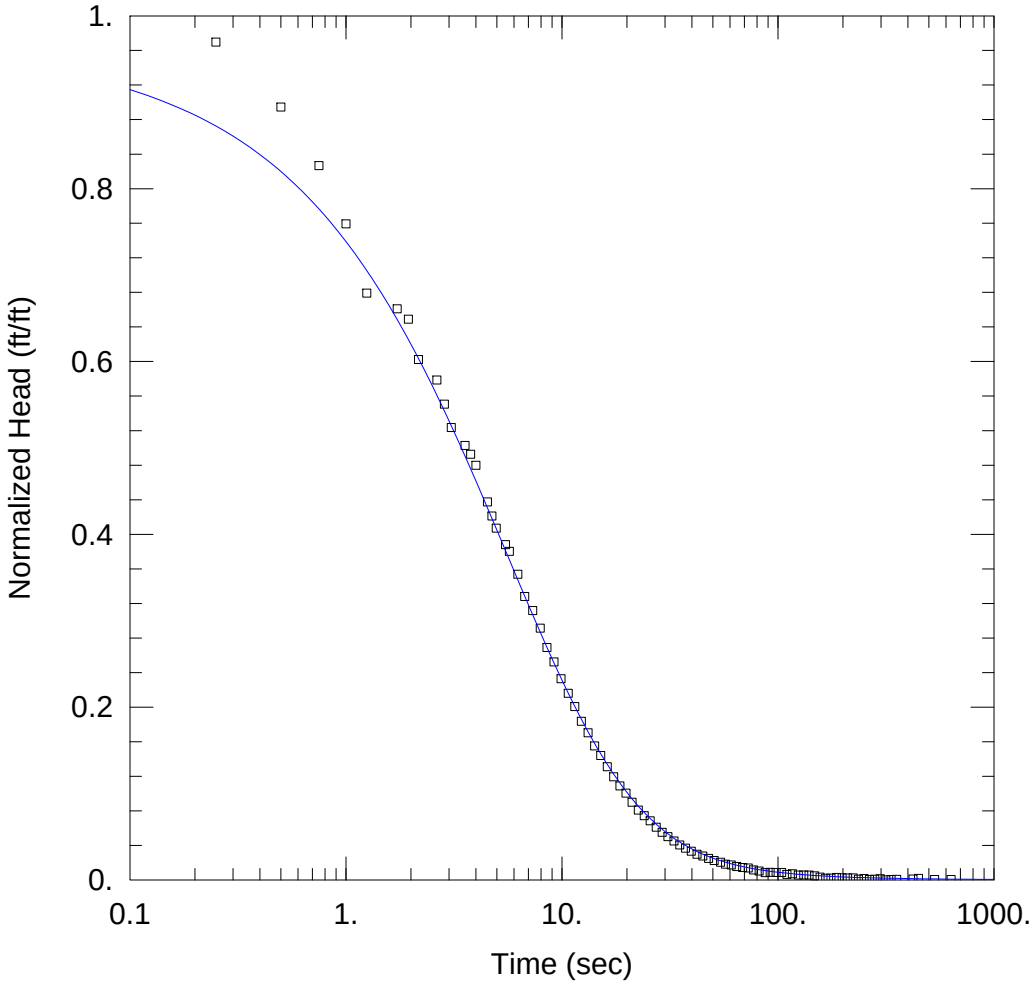
WELL DATA (KAFB106034)

Initial Displacement: 2.571 ft
Total Well Penetration Depth: 54.05 ft
Casing Radius: 0.198 ft
Static Water Column Height: 59.05 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 61.28 ft/day y0 = 1.705 ft



KAFB106034P2

Data Set: C:\...\KAFB106034P2-KGS[1].aqt
Date: 08/26/11 Time: 20:10:35

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106034
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 30.5 ft

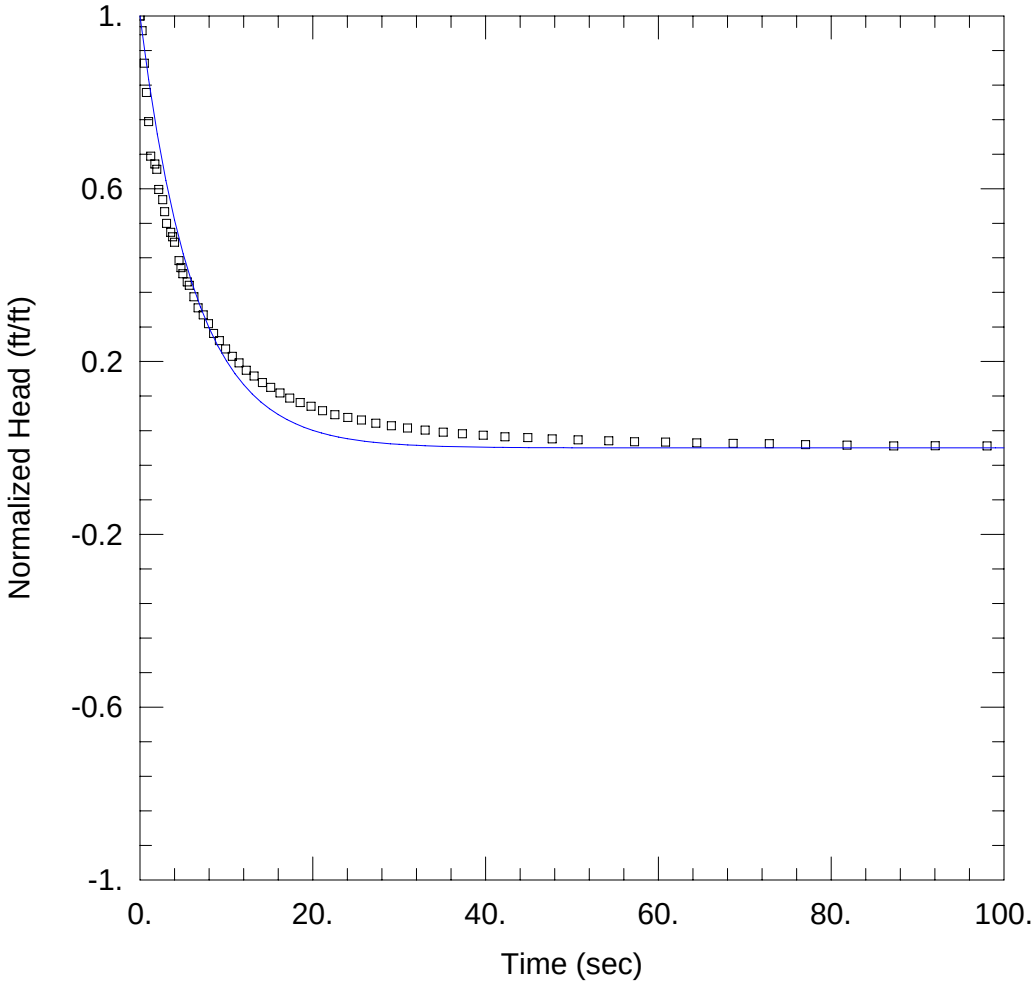
WELL DATA (KAFB106034)

Initial Displacement: 2.571 ft
Total Well Penetration Depth: 54.05 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 59.05 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 50.04 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.0002483 ft^{-1}
Kr' = 178.7 ft/day
Kz/Kr' = 1.



KAFB106034P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106034P2-SG.aqt
Date: 08/25/11 Time: 11:00:51

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106034
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 30.5 ft
Anisotropy Ratio (Kz/Kr): 0.1

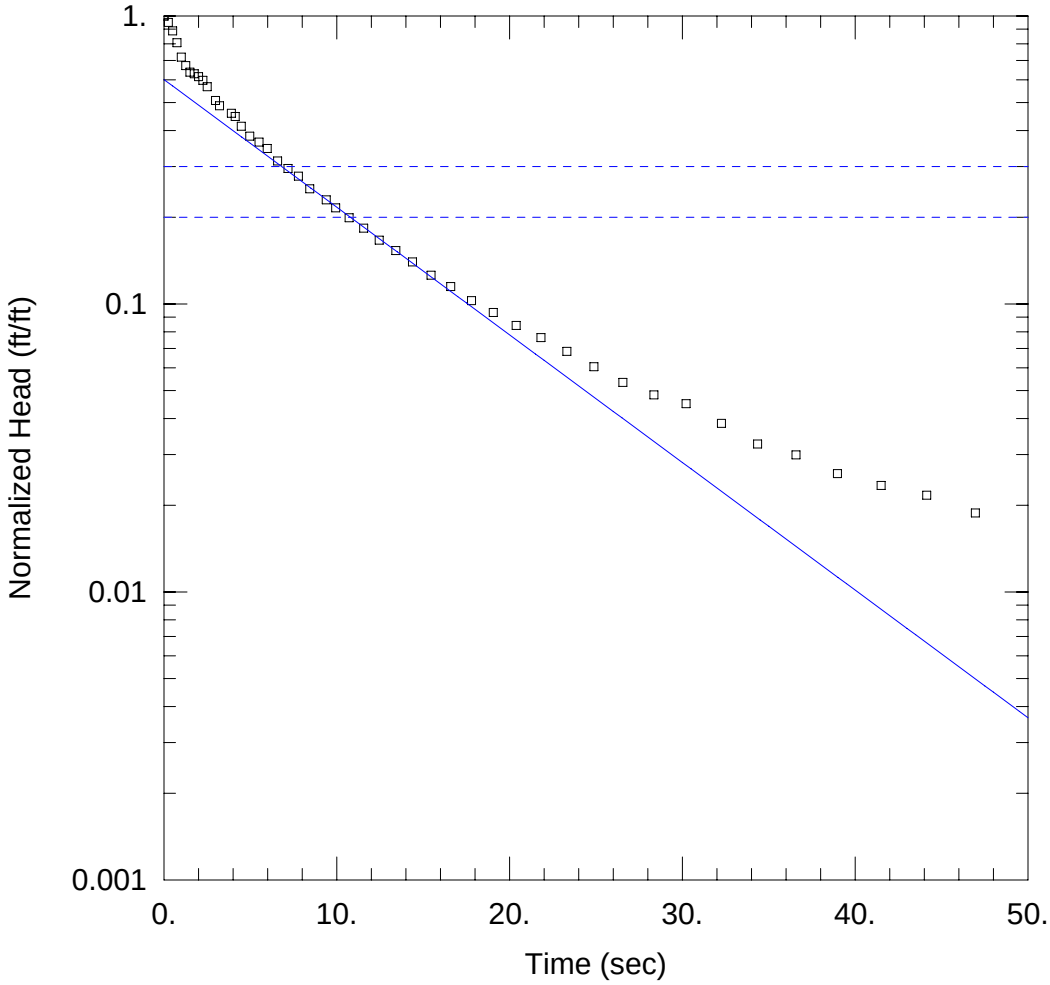
WELL DATA (KAFB106034)

Initial Displacement: 2.571 ft
Total Well Penetration Depth: 54.05 ft
Casing Radius: 0.198 ft
Static Water Column Height: 59.05 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 92.92 ft/day
Le = 1. ft



KAFB106034P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106034P3-BR.aqt
Date: 08/25/11 Time: 11:02:45

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106034
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 30.5 ft
Anisotropy Ratio (Kz/Kr): 0.1

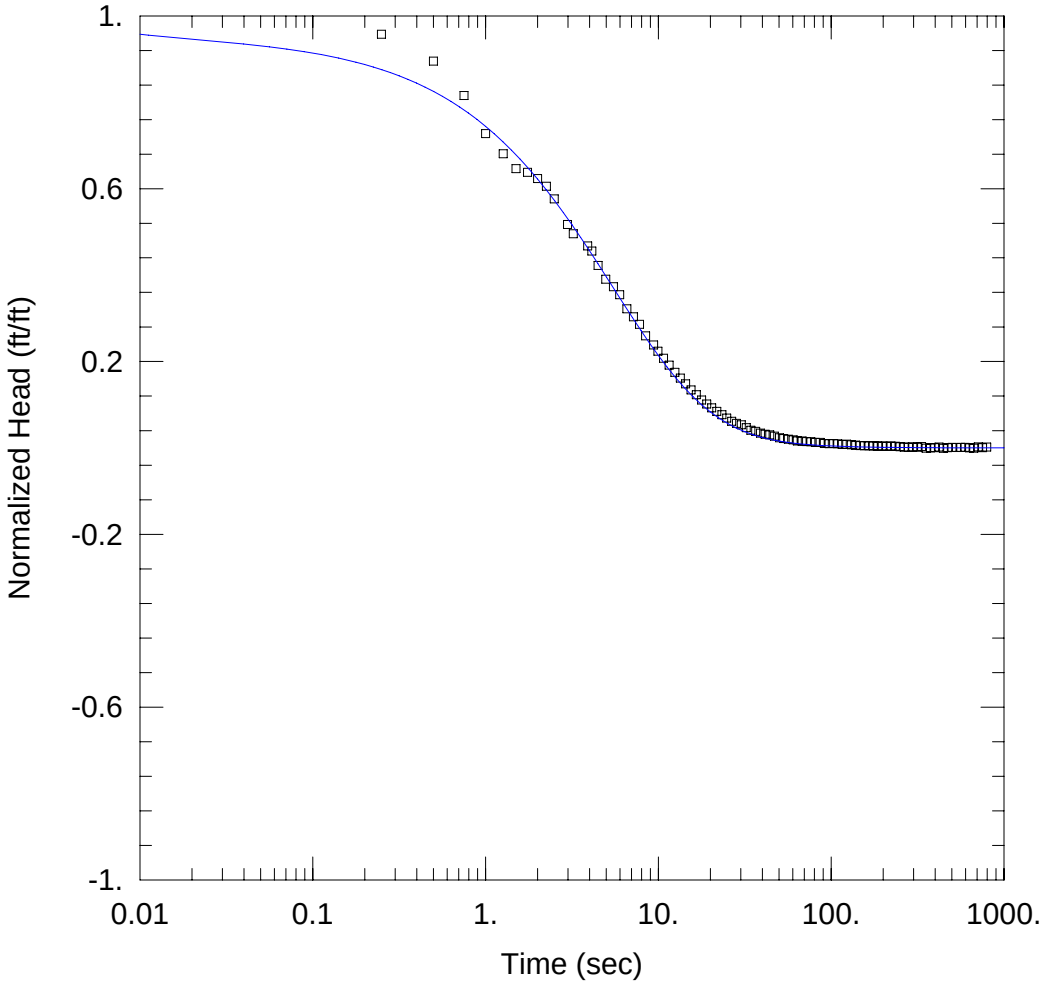
WELL DATA (KAFB106034)

Initial Displacement: 2.381 ft
Total Well Penetration Depth: 54.05 ft
Casing Radius: 0.198 ft
Static Water Column Height: 59.05 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 59.18 ft/day
y0 = 1.431 ft



KAFB106034P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106034P3-KGDS.aqt
Date: 08/25/11 Time: 11:05:04

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106034
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 30.5 ft

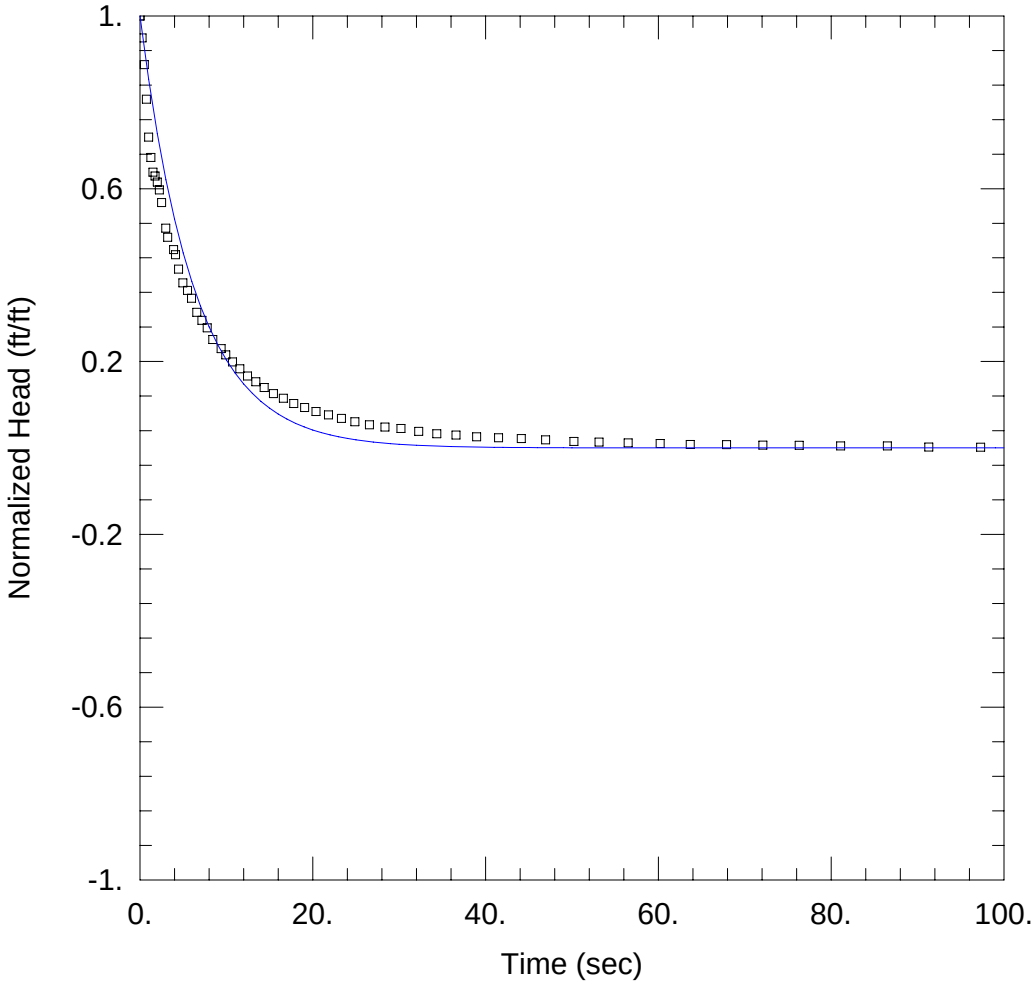
WELL DATA (KAFB106034)

Initial Displacement: 2.381 ft
Total Well Penetration Depth: 54.05 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 59.05 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 60.16 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 7.943E-5 ft^{-1}
Kr' = 353.8 ft/day
Kz/Kr' = 1.



KAFB106034P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106034P3-SG.aqt
Date: 08/25/11 Time: 11:03:33

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106034
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 30.5 ft
Anisotropy Ratio (Kz/Kr): 0.1

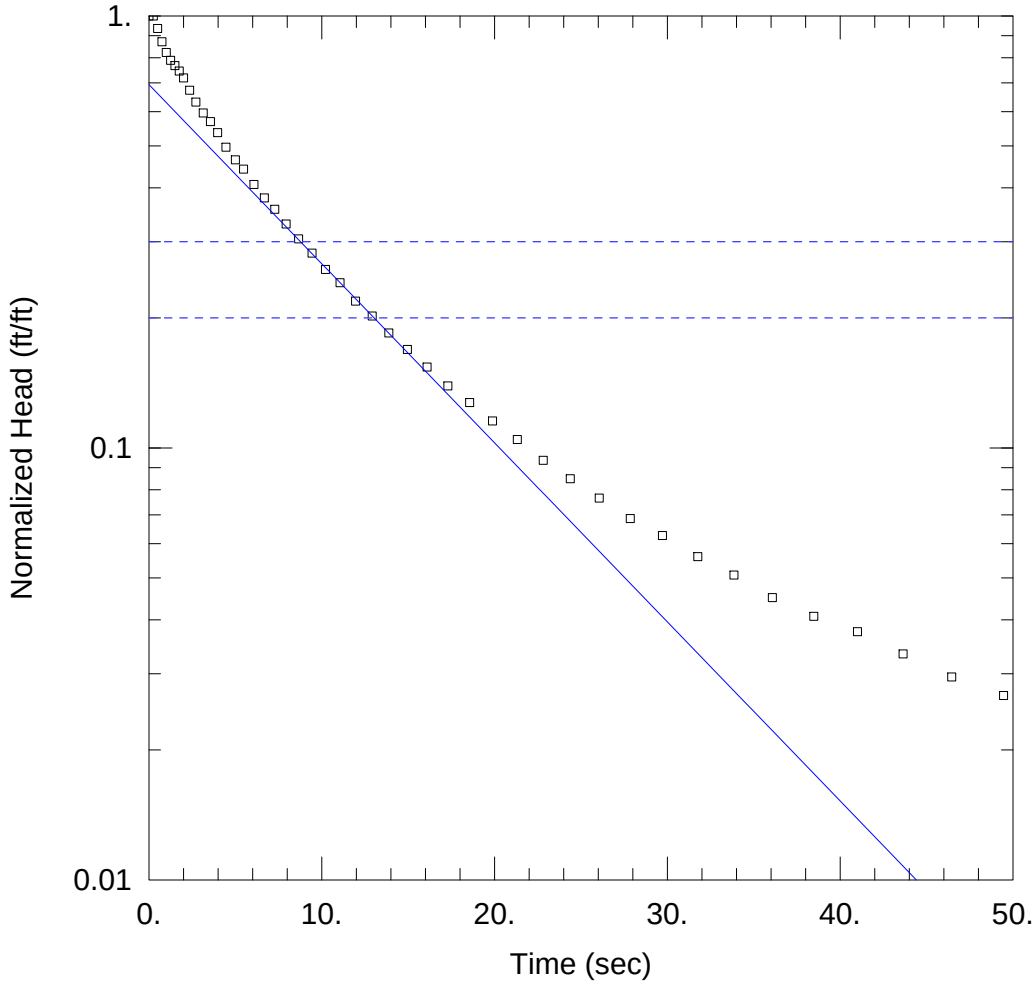
WELL DATA (KAFB106034)

Initial Displacement: 2.381 ft
Total Well Penetration Depth: 54.05 ft
Casing Radius: 0.198 ft
Static Water Column Height: 59.05 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 92.33 ft/day
Le = 1. ft



KAFB106034P4

Data Set: C:\...\KAFB106034P4-BR[1].aqt
Date: 08/26/11 Time: 20:14:43

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106034
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 30.5 ft Anisotropy Ratio (Kz/Kr): 0.1

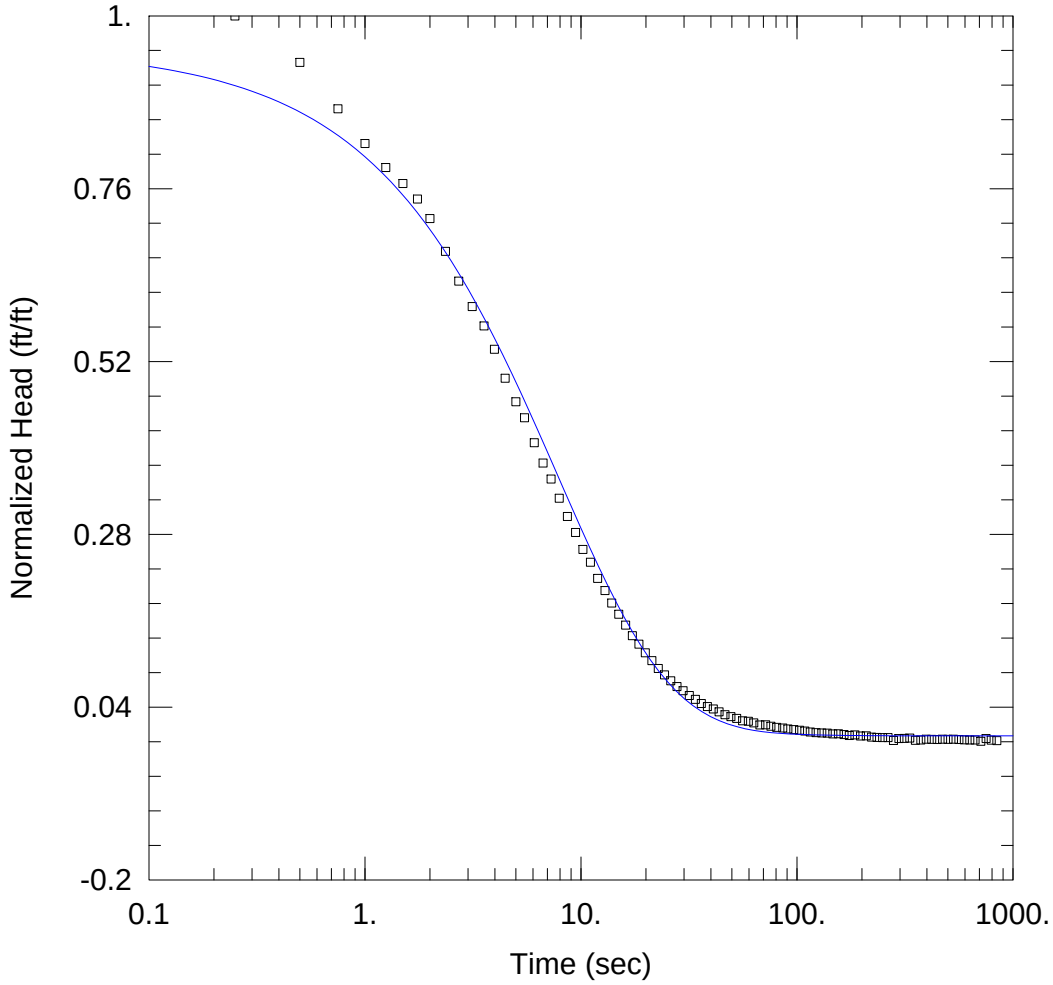
WELL DATA (KAFB106034)

Initial Displacement: 2.65 ft
Total Well Penetration Depth: 54.05 ft
Casing Radius: 0.198 ft
Static Water Column Height: 59.05 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 55.35 ft/day y0 = 1.837 ft



KAFB106034P4

Data Set: C:\...\KAFB106034P4-KGS[1].aqt
Date: 09/29/11 Time: 14:23:07

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106034
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 30.5 ft

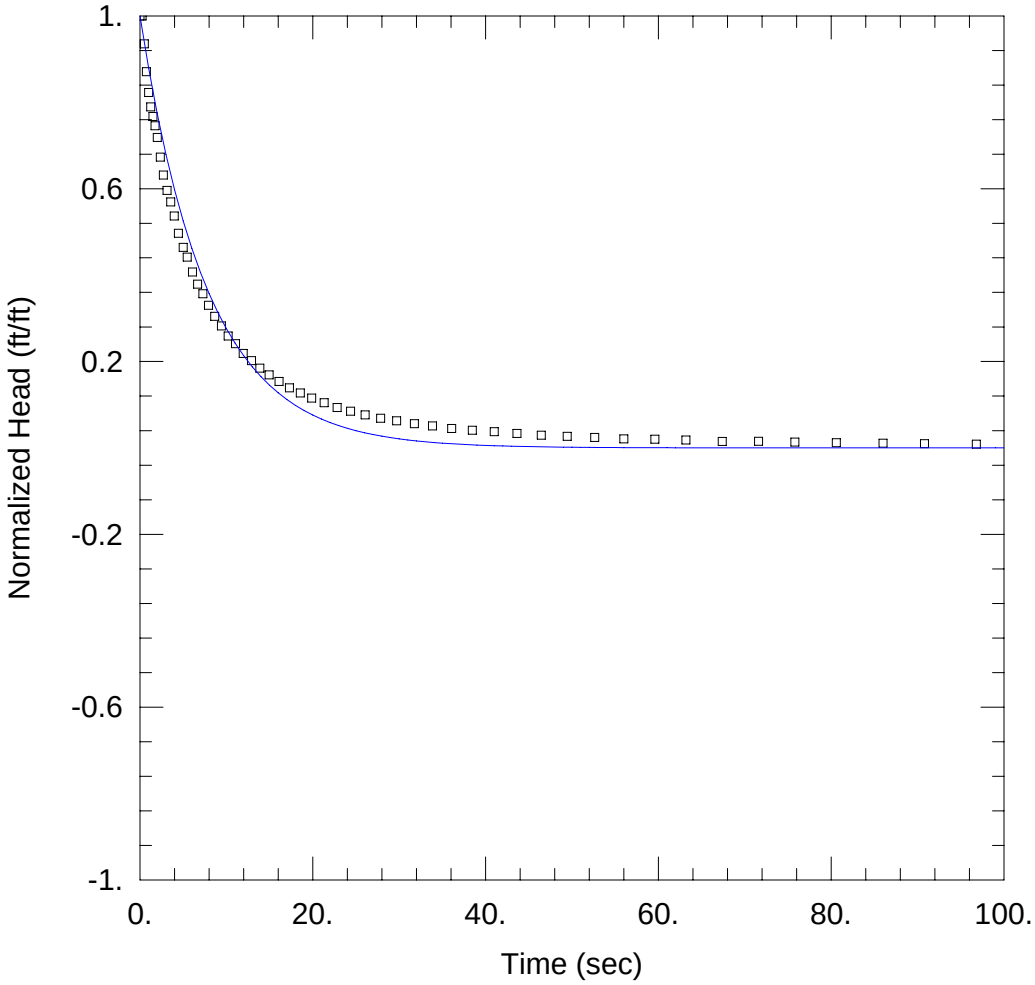
WELL DATA (KAFB106034)

Initial Displacement: 2.65 ft
Total Well Penetration Depth: 54.05 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 59.05 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 53.97 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 1.679E-5 ft^{-1}
Kr' = 225.5 ft/day
Kz/Kr' = 1.



KAFB106034P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106034P4-SG.aqt
Date: 08/25/11 Time: 11:06:44

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106034
Test Date: 7/27/11

AQUIFER DATA

Saturated Thickness: 30.5 ft
Anisotropy Ratio (Kz/Kr): 0.1

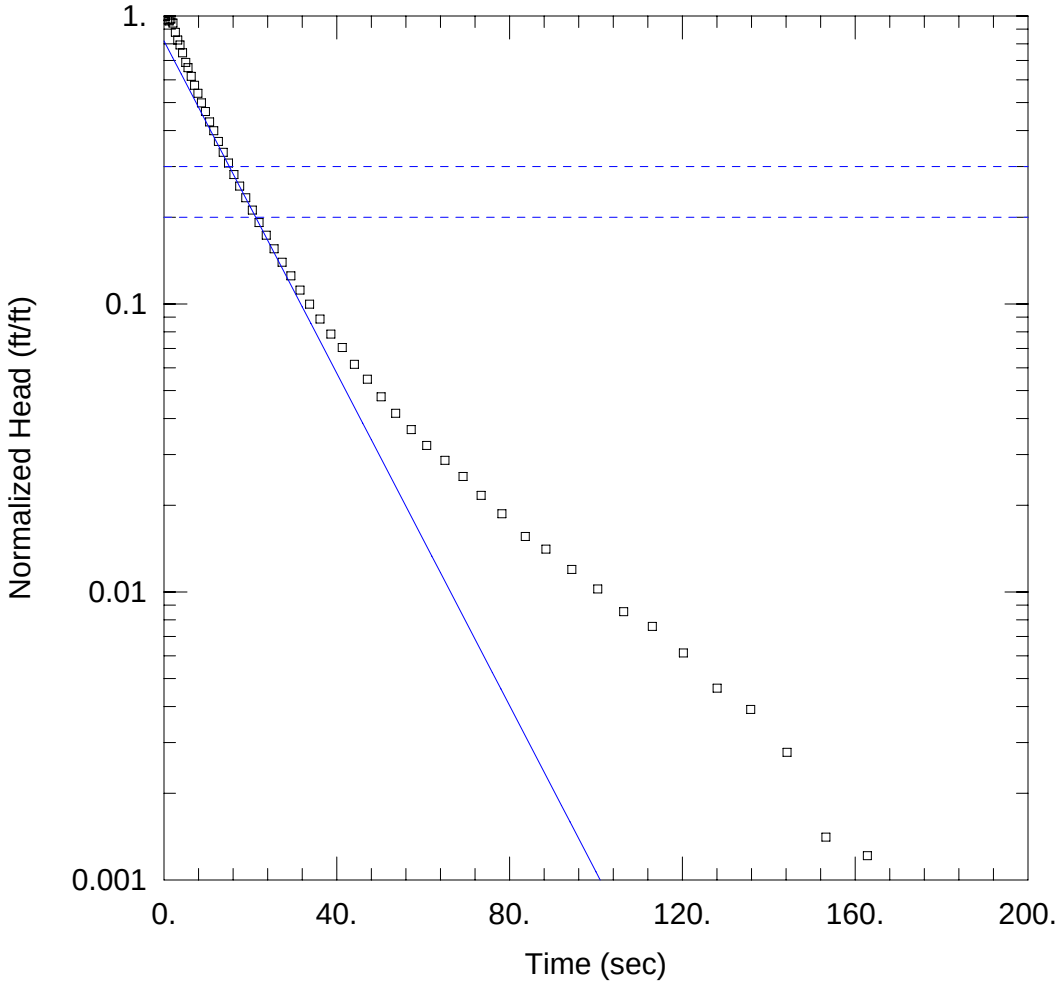
WELL DATA (KAFB106034)

Initial Displacement: 2.65 ft
Total Well Penetration Depth: 54.05 ft
Casing Radius: 0.198 ft
Static Water Column Height: 59.05 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 74.69 ft/day
Le = 1. ft



KAFB106036P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106036P1-BR.aqt
Date: 10/06/11 Time: 13:44:05

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106036
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.1

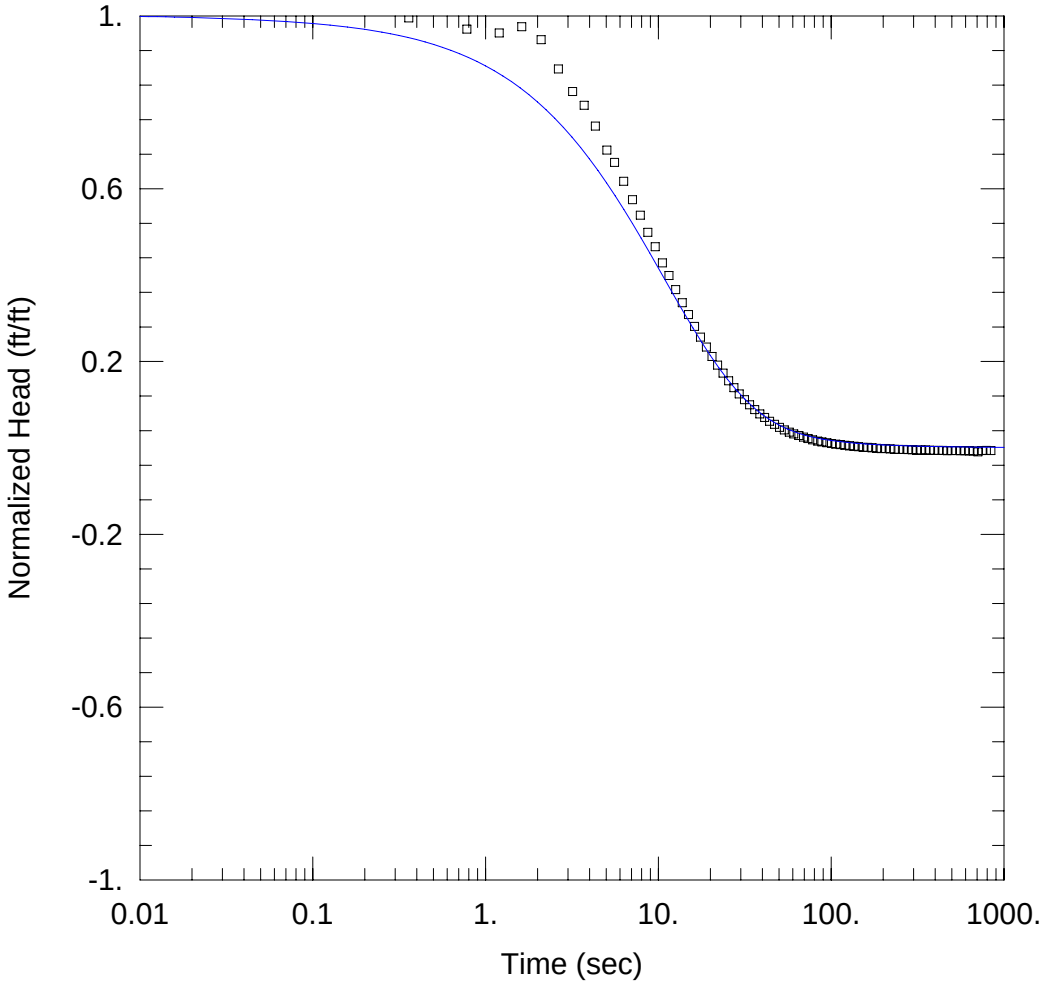
WELL DATA (KAFB106036)

Initial Displacement: 2.439 ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.198 ft
Static Water Column Height: 35. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 33.08 ft/day
y0 = 1.997 ft



KAFB106036P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106036P1-BZ.aqt
Date: 10/06/11 Time: 13:46:59

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106036
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 1.0E-7

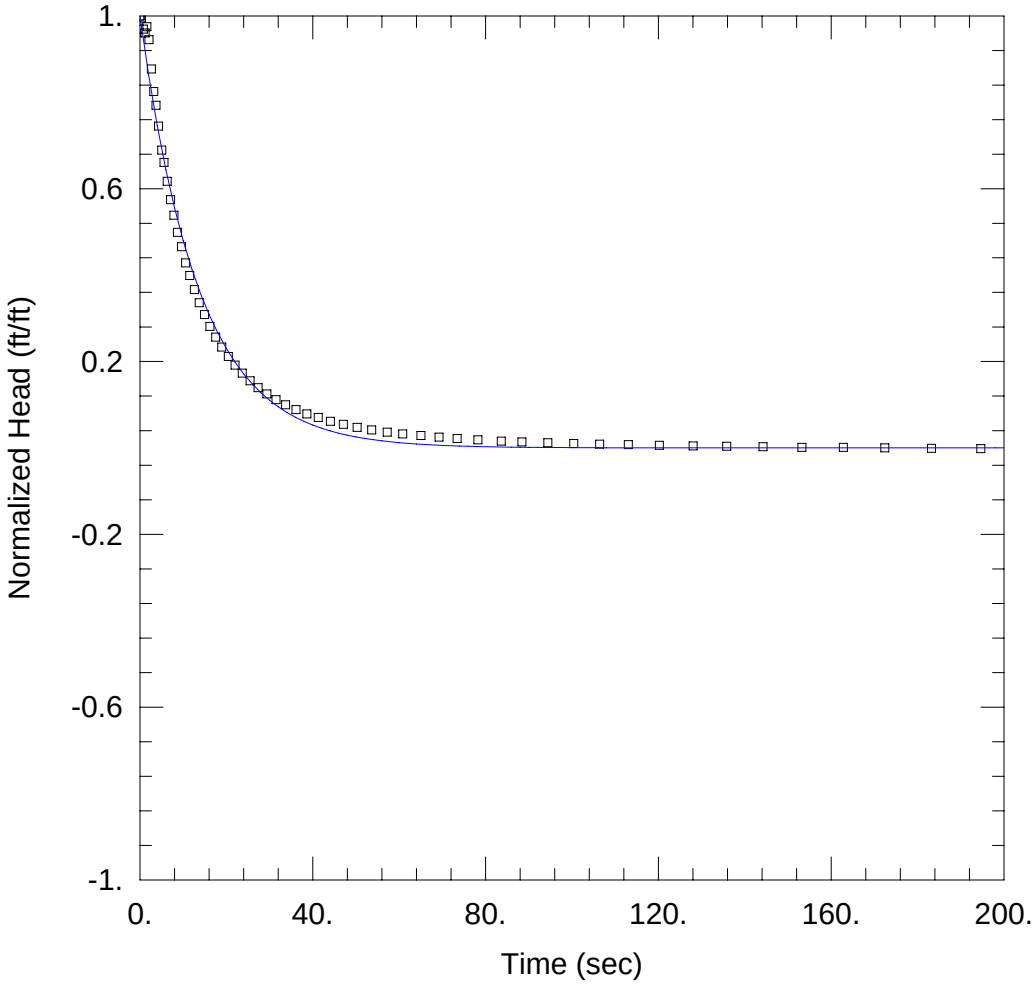
WELL DATA (KAFB106036)

Initial Displacement: 2.439 ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.198 ft
Static Water Column Height: 35. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 47.43 ft/day
Kz/Kr = 1.0E-7
Ss = 1.514E-5 ft^{-1}
Le = 1. ft



KAFB106036P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106036P1-SG.aqt
Date: 10/06/11 Time: 13:49:18

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106036
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.0001

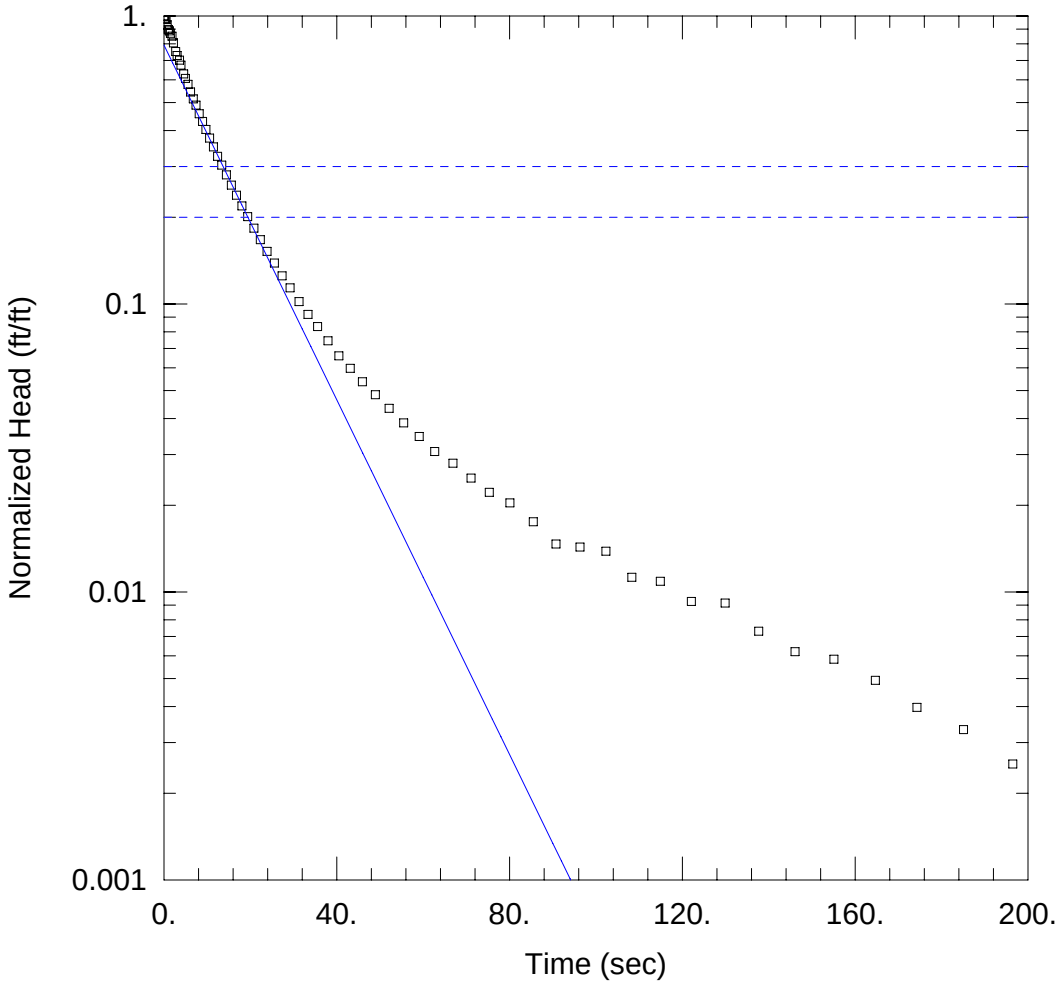
WELL DATA (KAFB106036)

Initial Displacement: 2.439 ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.198 ft
Static Water Column Height: 35. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 69.2 ft/day
Le = 1. ft



KAFB106036P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106036P2-BR.aqt
Date: 10/06/11 Time: 13:50:20

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106036
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.0001

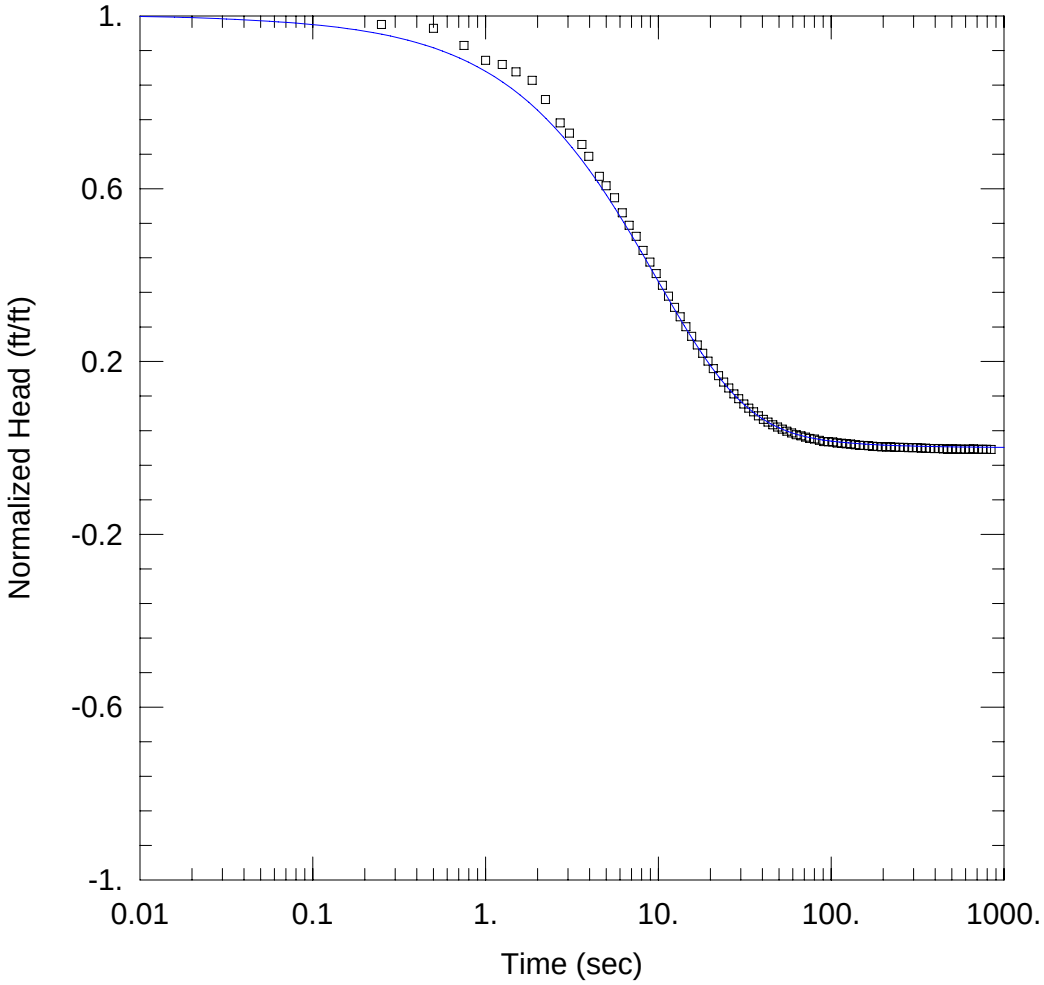
WELL DATA (KAFB106036)

Initial Displacement: 2.472 ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.198 ft
Static Water Column Height: 35. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 66.77 ft/day
y0 = 1.958 ft



KAFB106036P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106036P2-BZ.aqt
Date: 10/06/11 Time: 13:51:41

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106036
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 1.0E-7

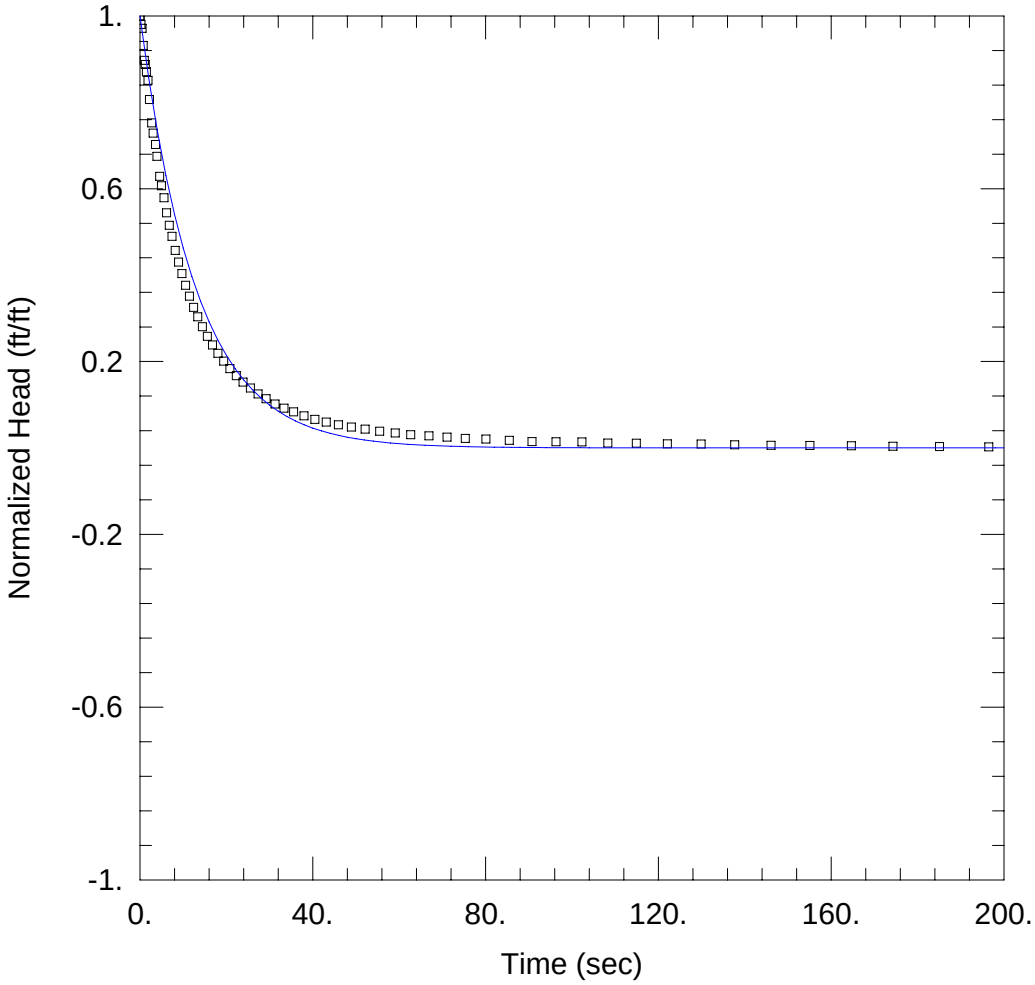
WELL DATA (KAFB106036)

Initial Displacement: 2.472 ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.198 ft
Static Water Column Height: 35. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 49.43 ft/day
Kz/Kr = 1.0E-7
Ss = 2.541E-5 ft^{-1}
Le = 1. ft



KAFB106036P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106036P2-SG.aqt
Date: 10/06/11 Time: 13:53:48

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106036
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.0001

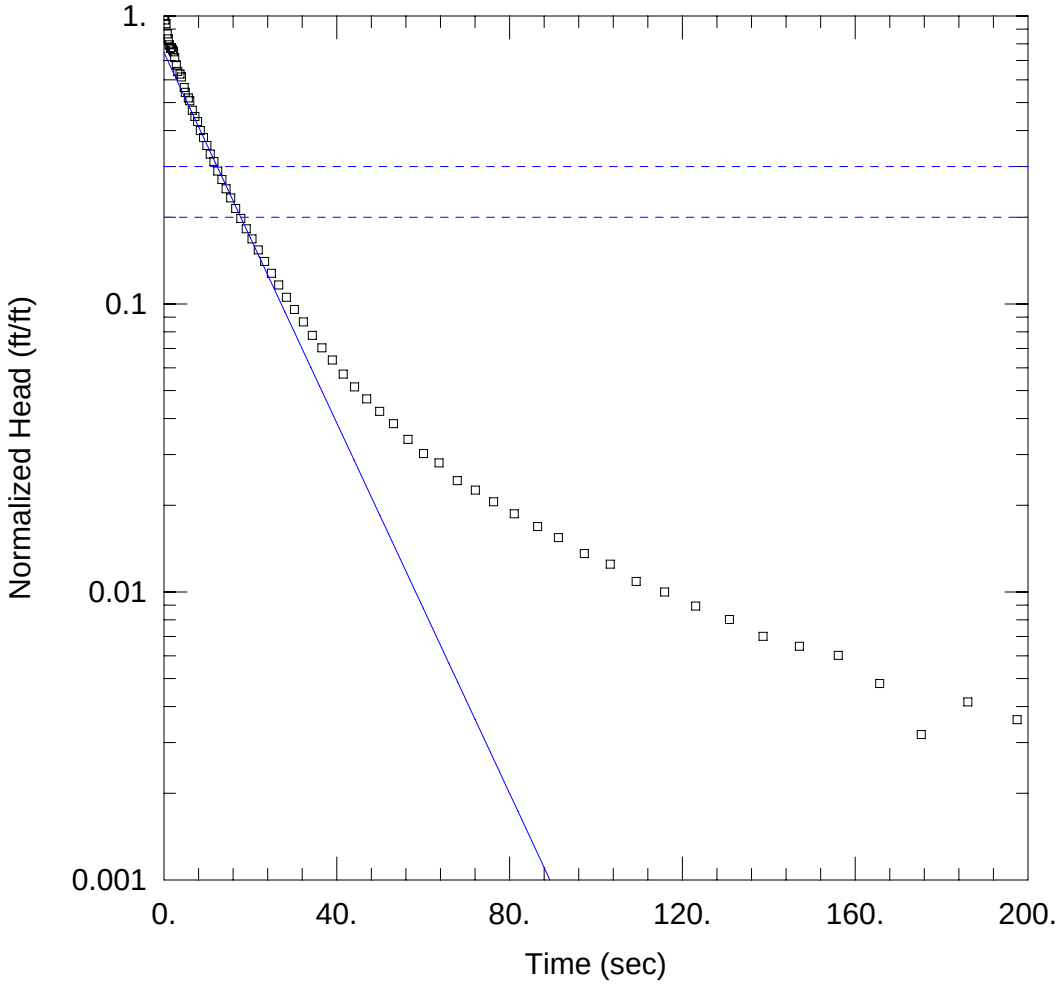
WELL DATA (KAFB106036)

Initial Displacement: 2.472 ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.198 ft
Static Water Column Height: 35. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 72.53 ft/day
Le = 1. ft



KAFB106036P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106036P3-BR.aqt
Date: 10/06/11 Time: 13:54:42

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106036
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.0001

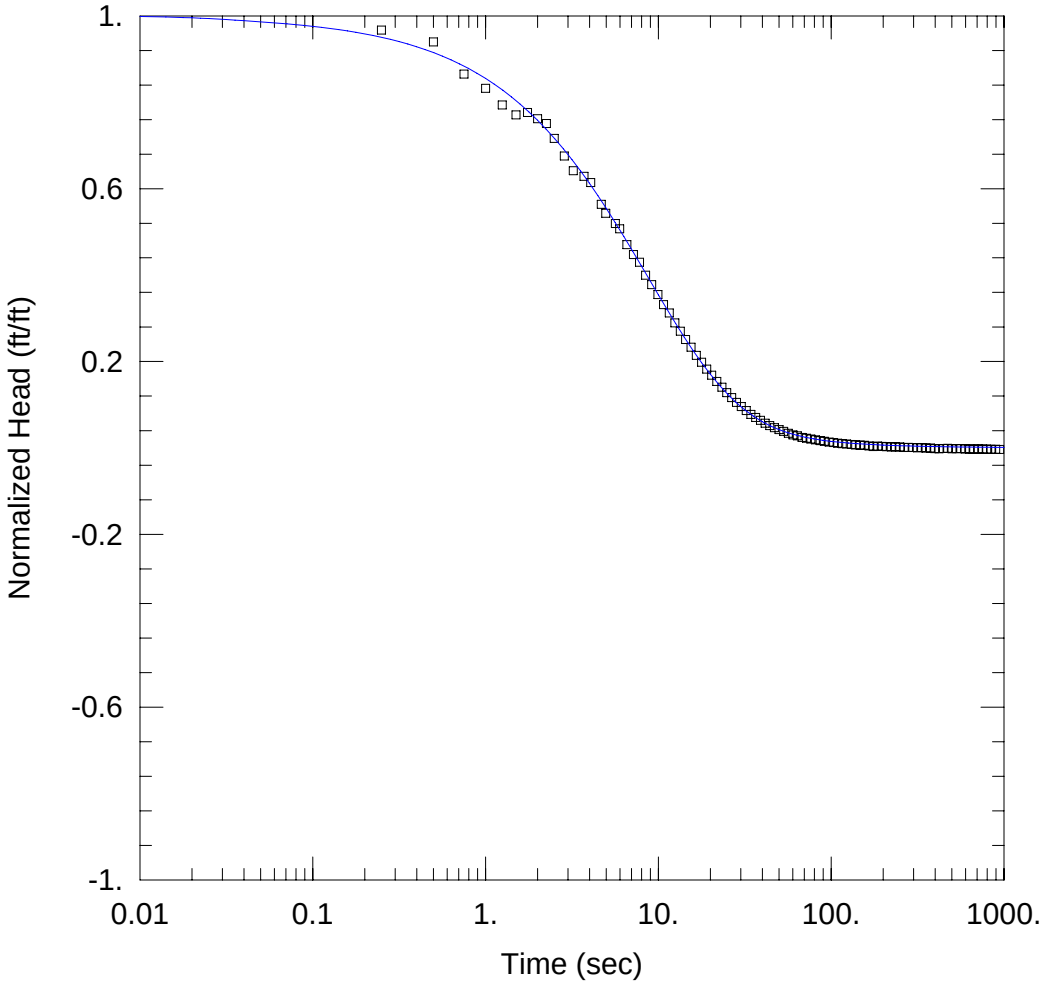
WELL DATA (KAFB106036)

Initial Displacement: 2.427 ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.198 ft
Static Water Column Height: 35. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 69.7 ft/day
y0 = 1.809 ft



KAFB106036P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106036P3-BZ.aqt
Date: 10/06/11 Time: 14:02:22

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106036
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 1.0E-7

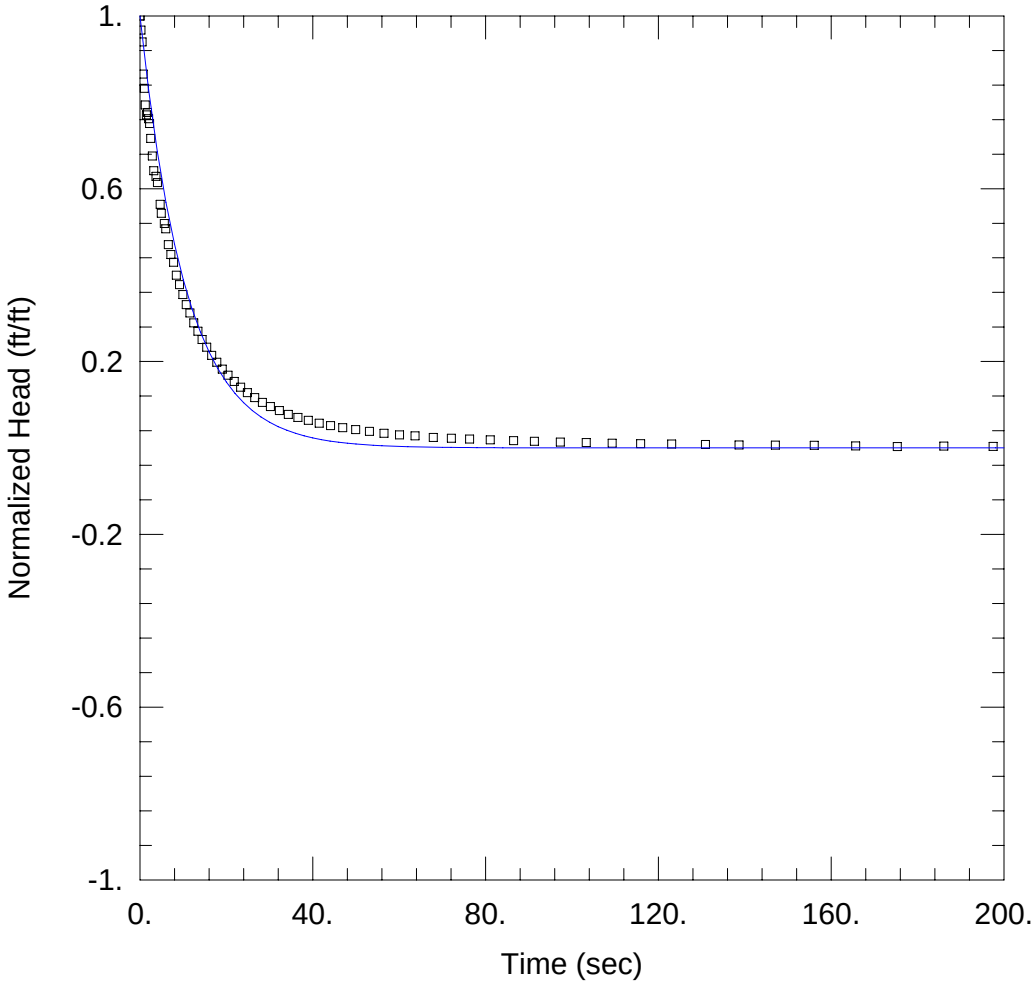
WELL DATA (KAFB106036)

Initial Displacement: 2.427 ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.198 ft
Static Water Column Height: 35. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 49.43 ft/day
Kz/Kr = 1.0E-7
Ss = 5.821E-5 ft^{-1}
Le = 1. ft



KAFB106036P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106036P3-SG.aqt
Date: 10/06/11 Time: 13:43:13

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106036
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.0001

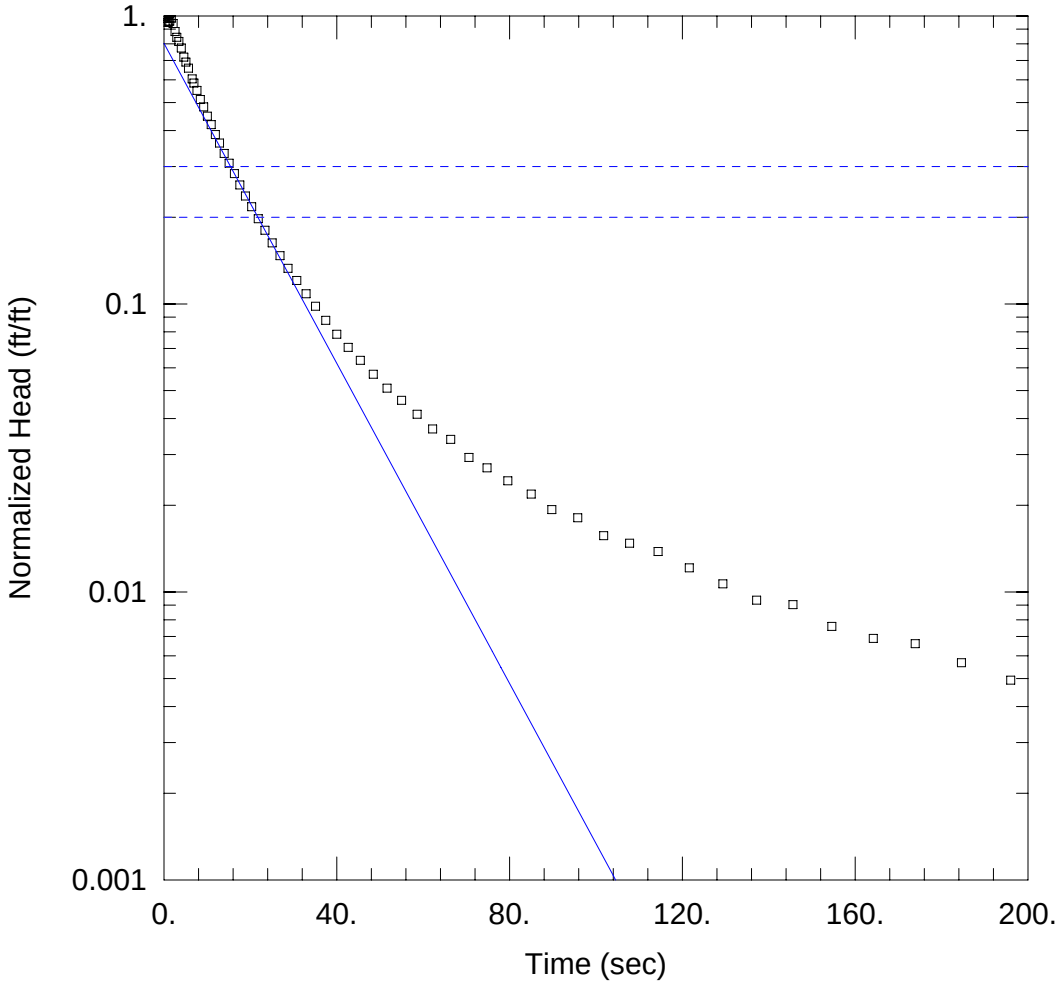
WELL DATA (KAFB106036)

Initial Displacement: 2.427 ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.198 ft
Static Water Column Height: 35. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 88.62 ft/day
Le = 1. ft



KAFB106036P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106036P4-BR.aqt
Date: 10/06/11 Time: 13:36:56

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106036
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.0001

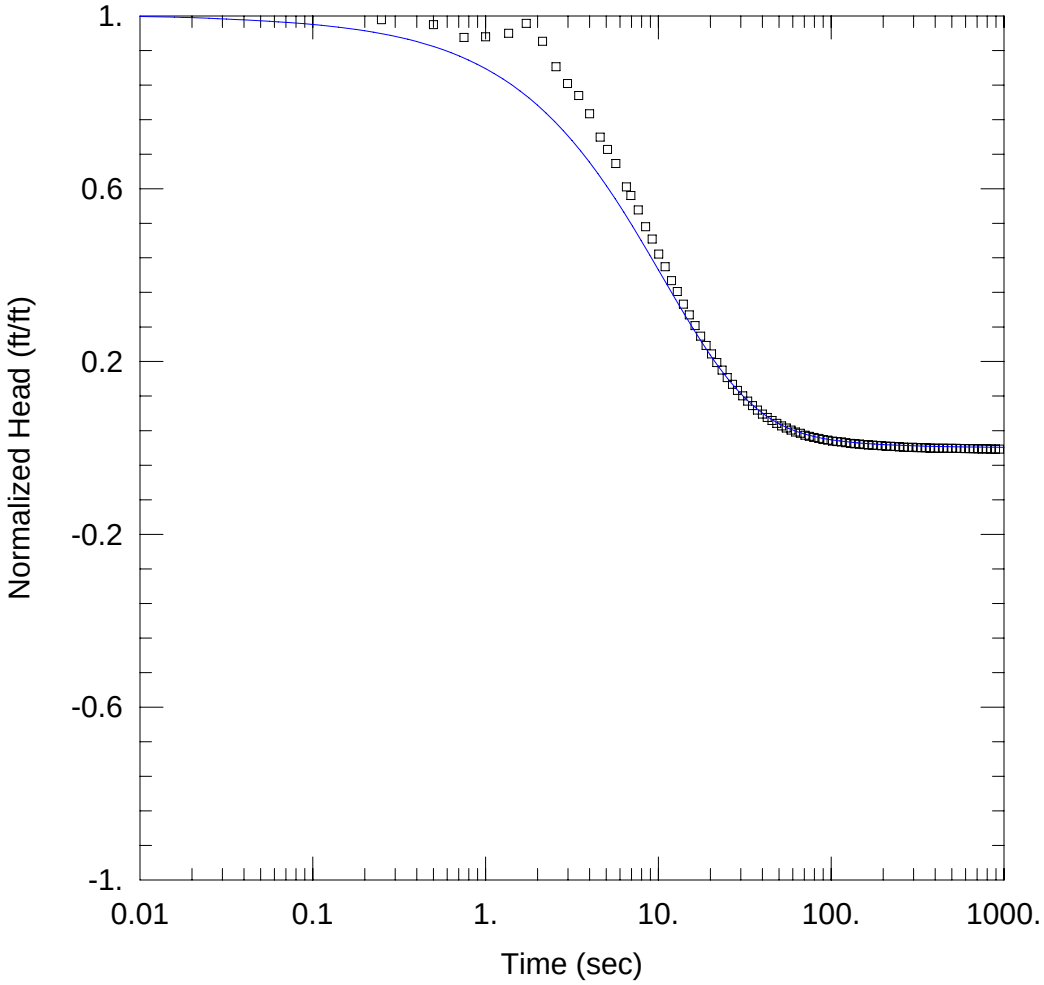
WELL DATA (KAFB106036)

Initial Displacement: 2.471 ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.198 ft
Static Water Column Height: 35. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 60.24 ft/day
y0 = 1.985 ft



KAFB106036P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106036P4-BZ.aqt
Date: 10/06/11 Time: 13:36:07

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106036
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 1.0E-7

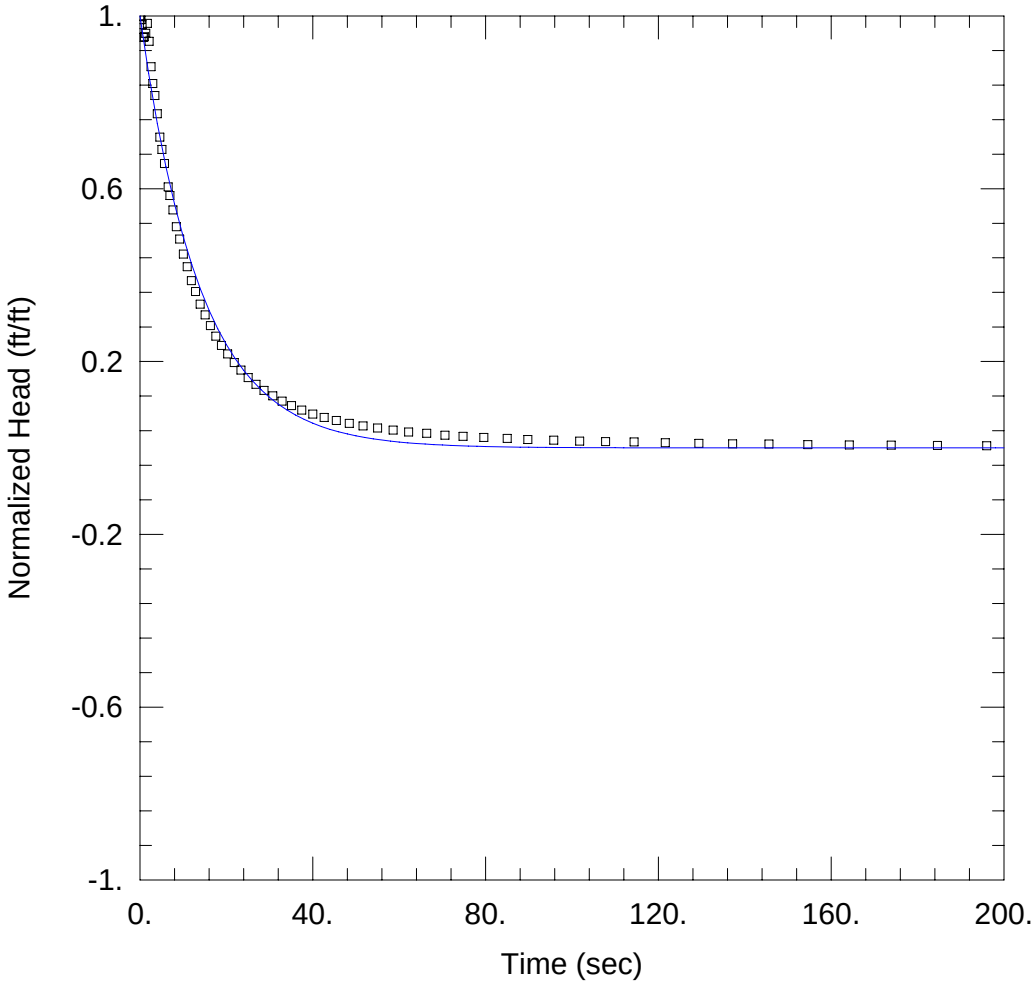
WELL DATA (KAFB106036)

Initial Displacement: 2.471 ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.198 ft
Static Water Column Height: 35. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 42.92 ft/day
Kz/Kr = 1.0E-7
Ss = 3.846E-5 ft^{-1}
Le = 1. ft



KAFB106036P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106036P4-SG.aqt
Date: 10/06/11 Time: 13:40:53

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106036
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.0001

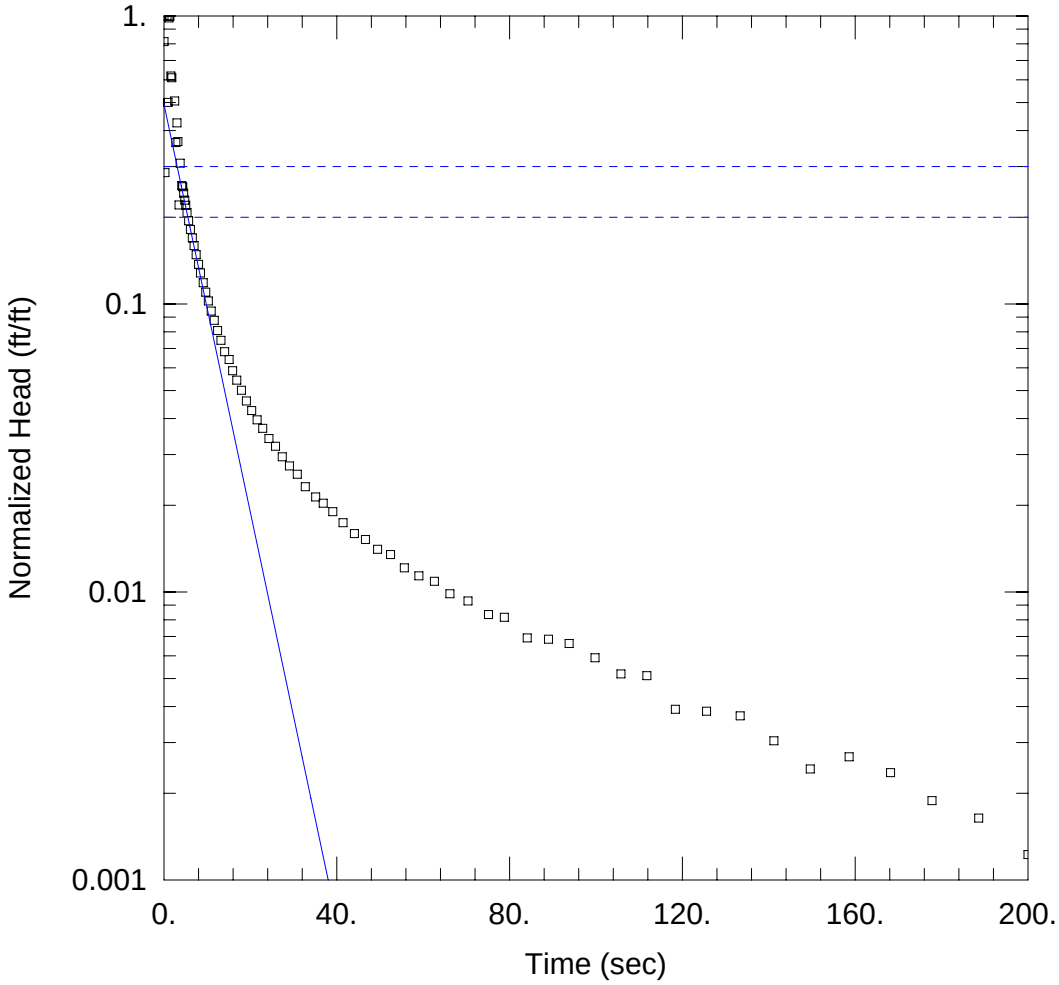
WELL DATA (KAFB106036)

Initial Displacement: 2.471 ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.198 ft
Static Water Column Height: 35. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 67.37 ft/day
Le = 1. ft



KAFB106038IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106038IN-BR.aqt
Date: 10/06/11 Time: 16:33:06

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106038
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 23. ft
Anisotropy Ratio (Kz/Kr): 0.1

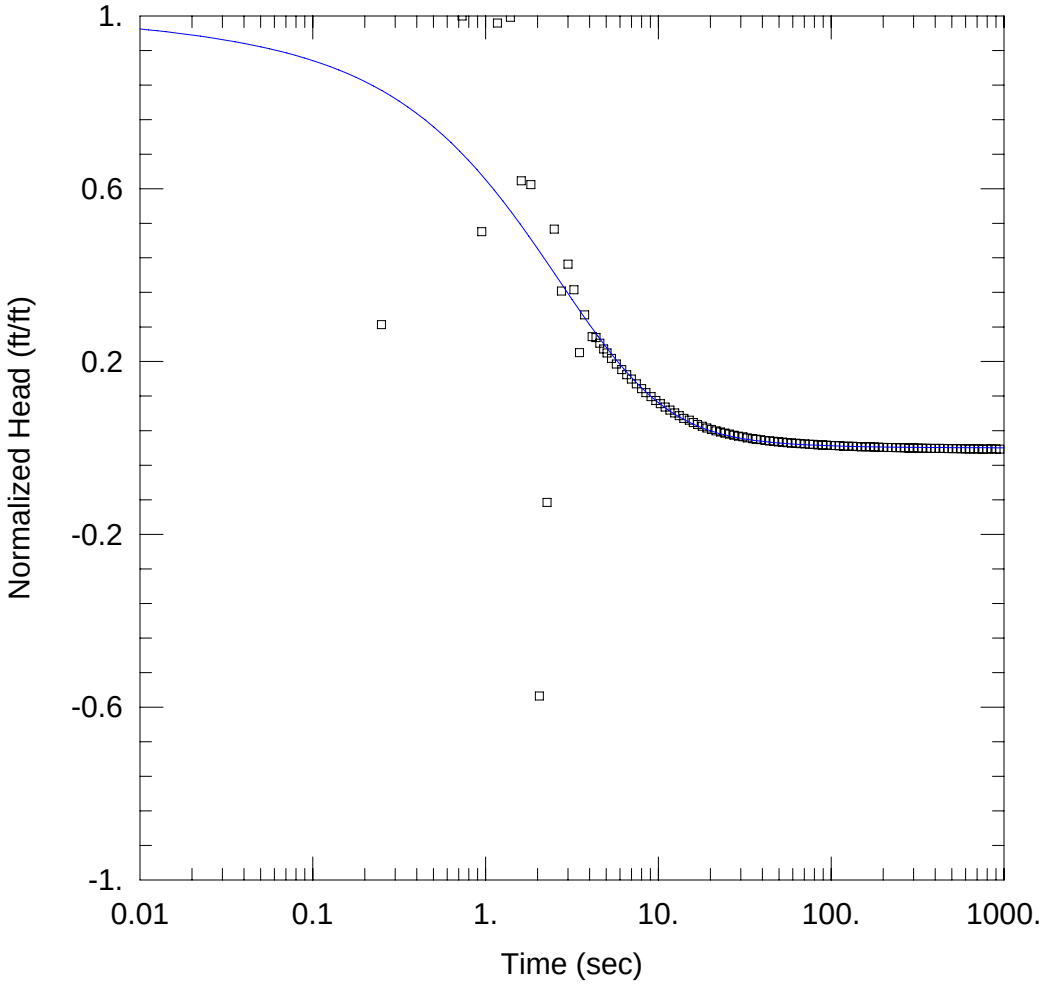
WELL DATA (KAFB106038)

Initial Displacement: 5.005 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.198 ft
Static Water Column Height: 18. ft
Screen Length: 13. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 80.2 ft/day
y0 = 2.468 ft



KAFB106038IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106038IN-KGS.aqt
Date: 10/06/11 Time: 16:38:14

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106038
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 23. ft

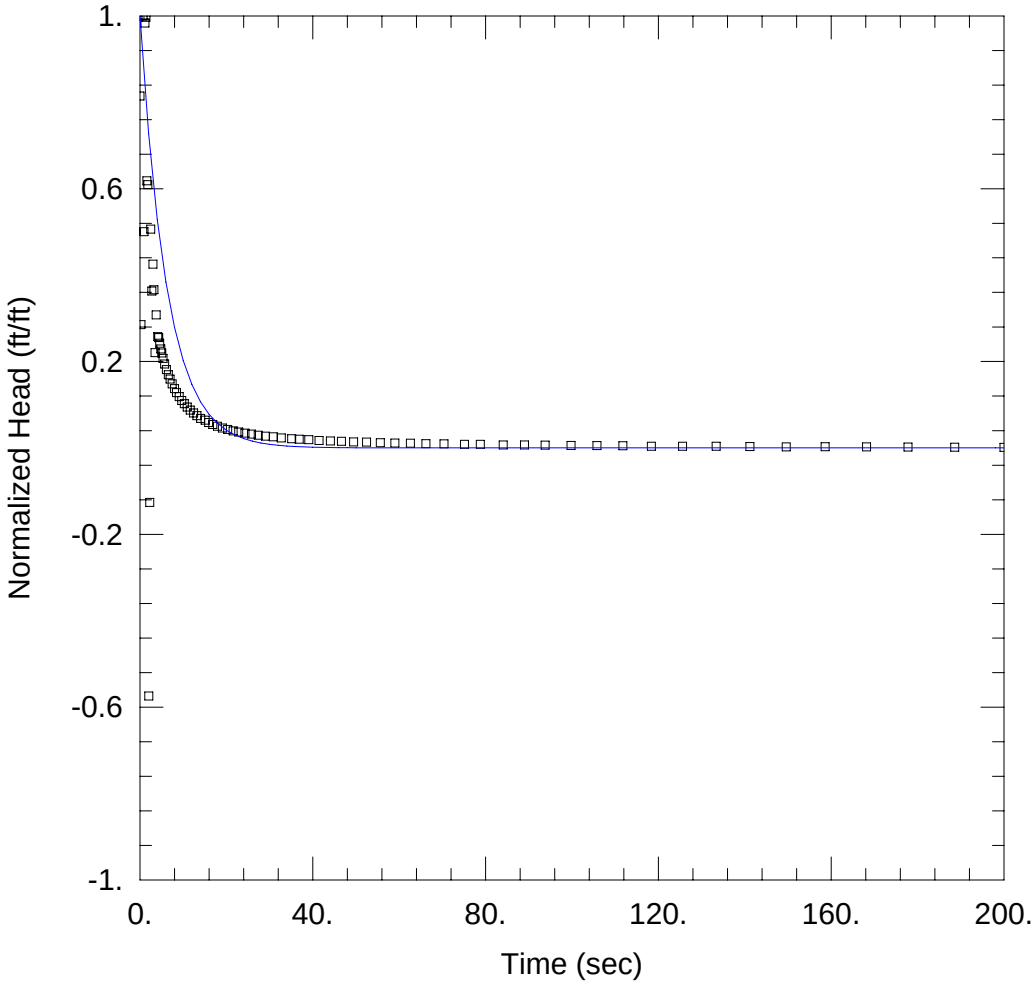
WELL DATA (KAFB106038)

Initial Displacement: 5.005 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 18. ft
Screen Length: 13. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 115.9 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.0005162 ft^{-1}
Kr' = 219.9 ft/day
Kz/Kr' = 1.



KAFB106038IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106038IN-SG.aqt
Date: 10/06/11 Time: 16:36:54

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106038
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 23. ft
Anisotropy Ratio (Kz/Kr): 0.1

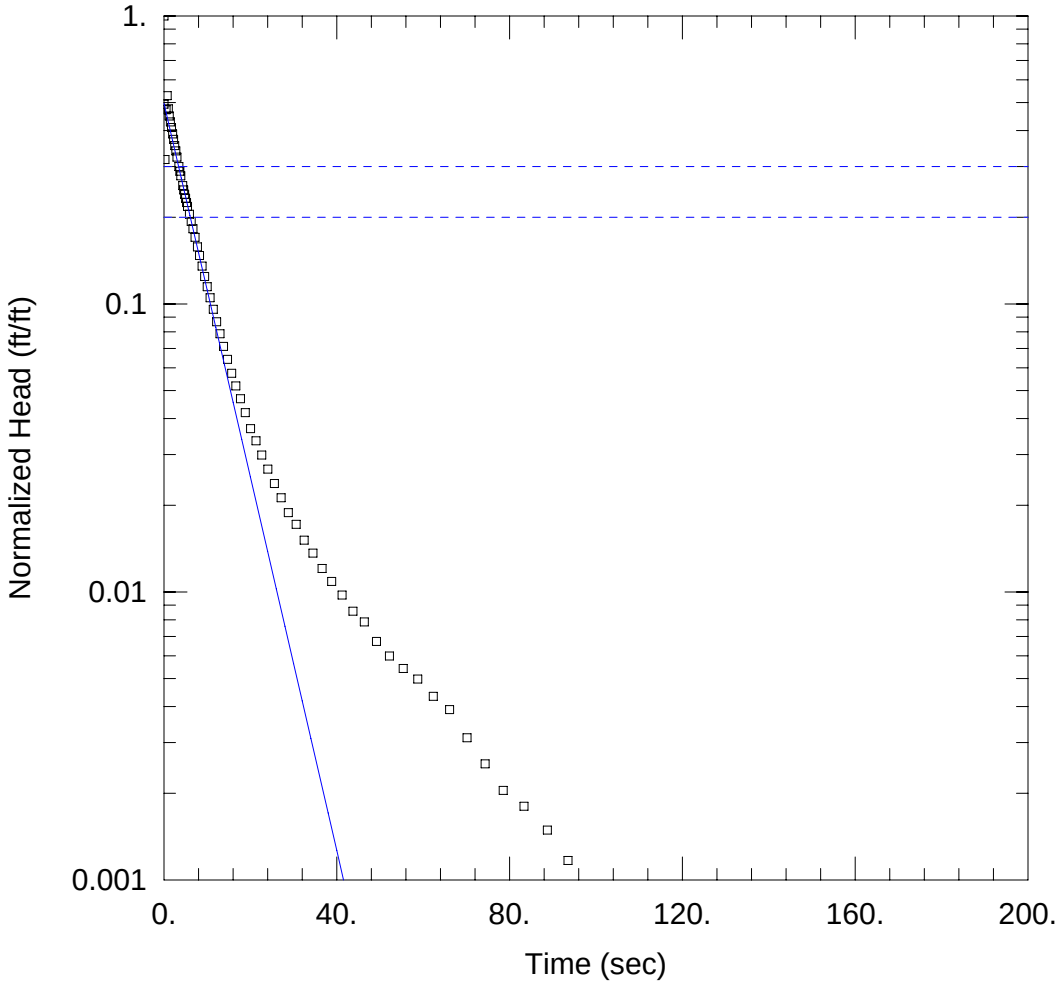
WELL DATA (KAFB106038)

Initial Displacement: 5.005 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.198 ft
Static Water Column Height: 18. ft
Screen Length: 13. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 78.49 ft/day
Le = 1. ft



KAFB106038OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106038OUT-BR.aqt
Date: 10/06/11 Time: 14:08:34

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106038
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 23. ft
Anisotropy Ratio (Kz/Kr): 0.01

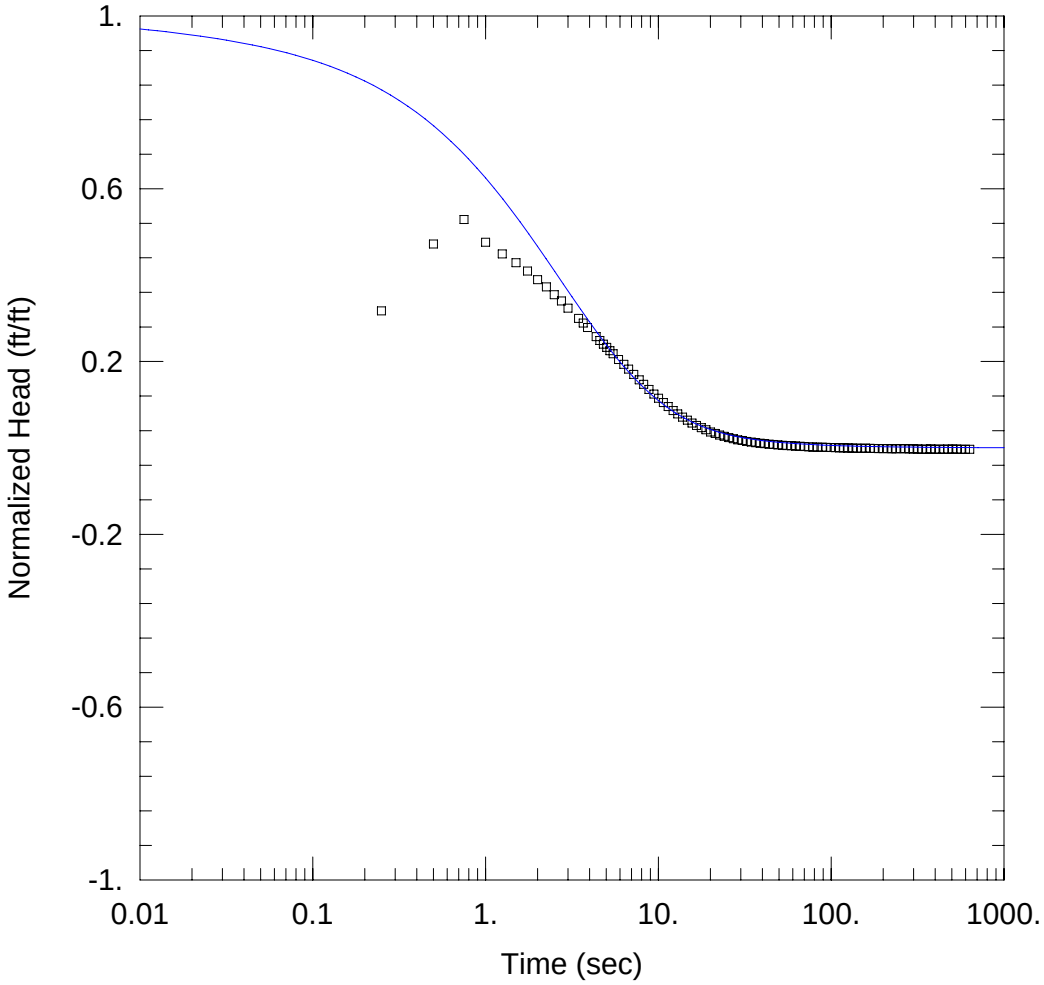
WELL DATA (KAFB106038)

Initial Displacement: 7.945 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.198 ft
Static Water Column Height: 18. ft
Screen Length: 13. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 95.01 ft/day
y0 = 3.948 ft



KAFB106038OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106038OUT-KGS.aqt
Date: 10/06/11 Time: 16:35:50

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106038
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 23. ft

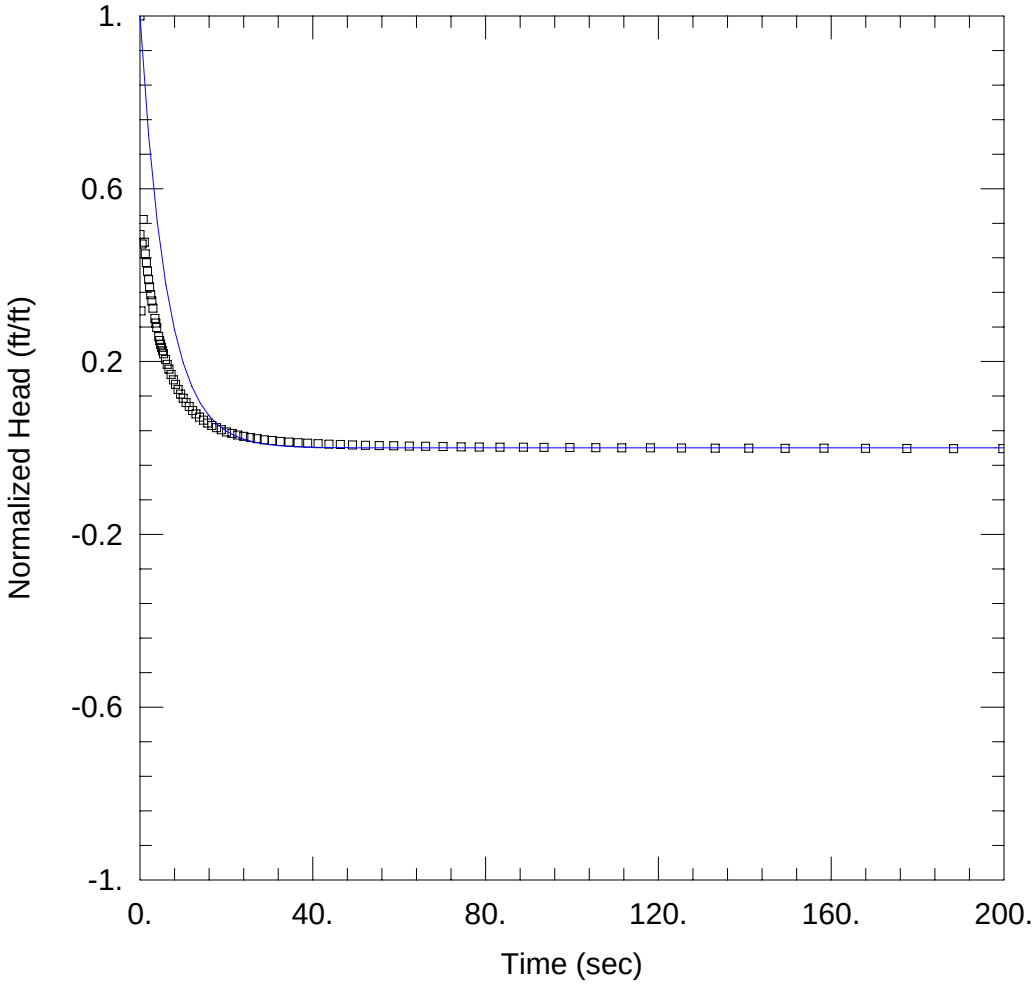
WELL DATA (KAFB106038)

Initial Displacement: 7.945 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 18. ft
Screen Length: 13. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 113.2 ft/day
Kz/Kr = 0.01
Ss' = 0.001 ft^{-1}
Ss = 0.0005162 ft^{-1}
Kr' = 219.9 ft/day
Kz/Kr' = 1.



KAFB106038OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106038OUT-SG.aqt
Date: 10/06/11 Time: 16:38:42

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106038
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 23. ft
Anisotropy Ratio (Kz/Kr): 0.01

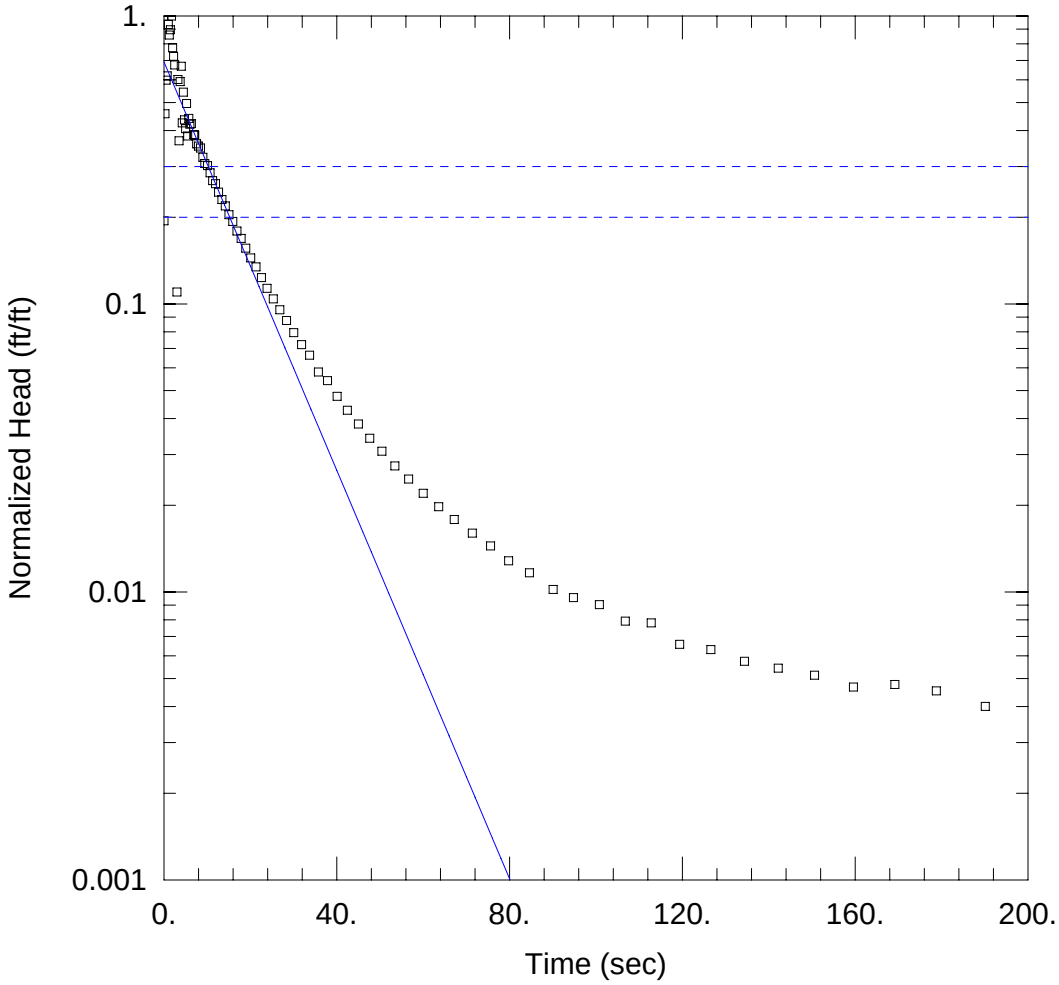
WELL DATA (KAFB106038)

Initial Displacement: 7.945 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.198 ft
Static Water Column Height: 18. ft
Screen Length: 13. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 103.4 ft/day
Le = 1. ft



KAFB106039IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106039IN-BR.aqt
Date: 10/06/11 Time: 14:25:18

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106039
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 32. ft
Anisotropy Ratio (Kz/Kr): 0.1

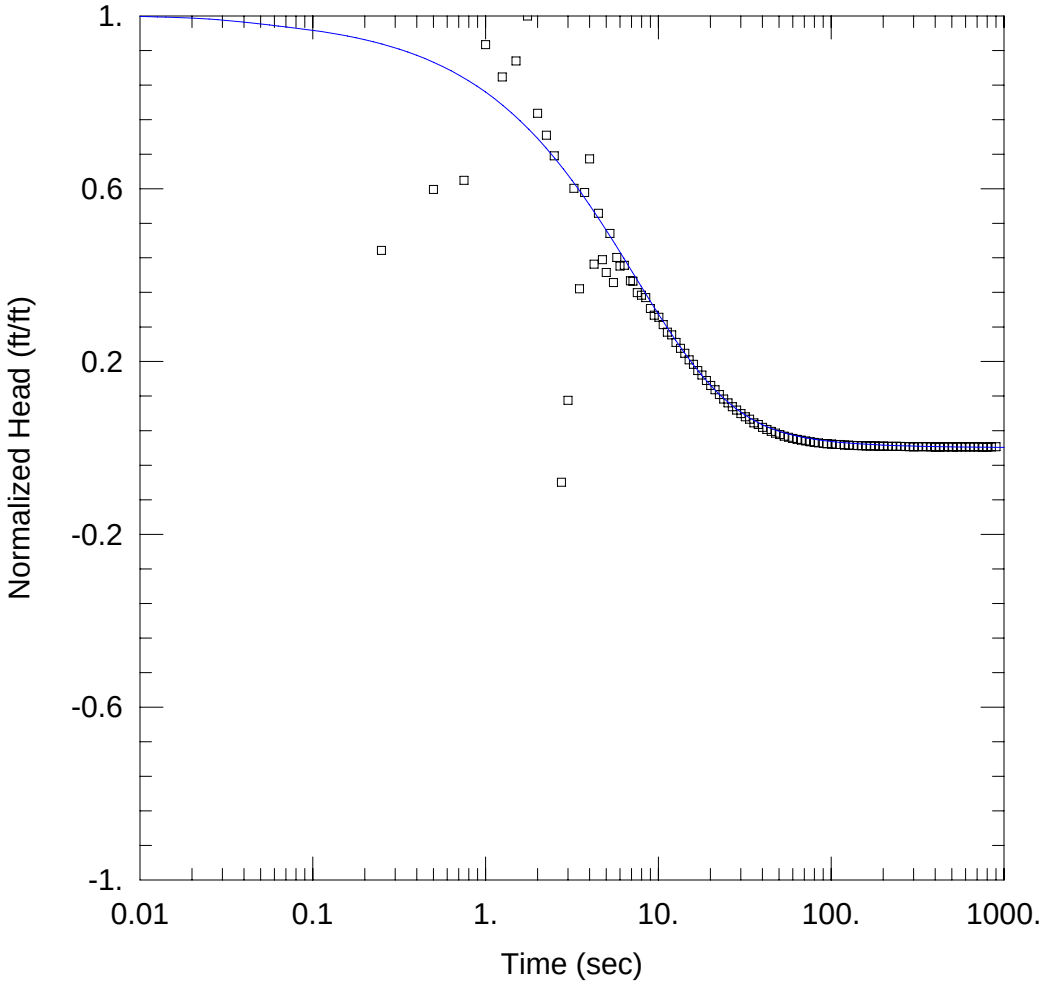
WELL DATA (KAFB106039)

Initial Displacement: 6.43 ft
Total Well Penetration Depth: 31. ft
Casing Radius: 0.198 ft
Static Water Column Height: 36. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 41.94 ft/day
y0 = 4.454 ft



KAFB106039IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106039IN-BZ.aqt
Date: 10/06/11 Time: 14:24:44

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106039
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 32. ft
Anisotropy Ratio (Kz/Kr): 1.0E-6

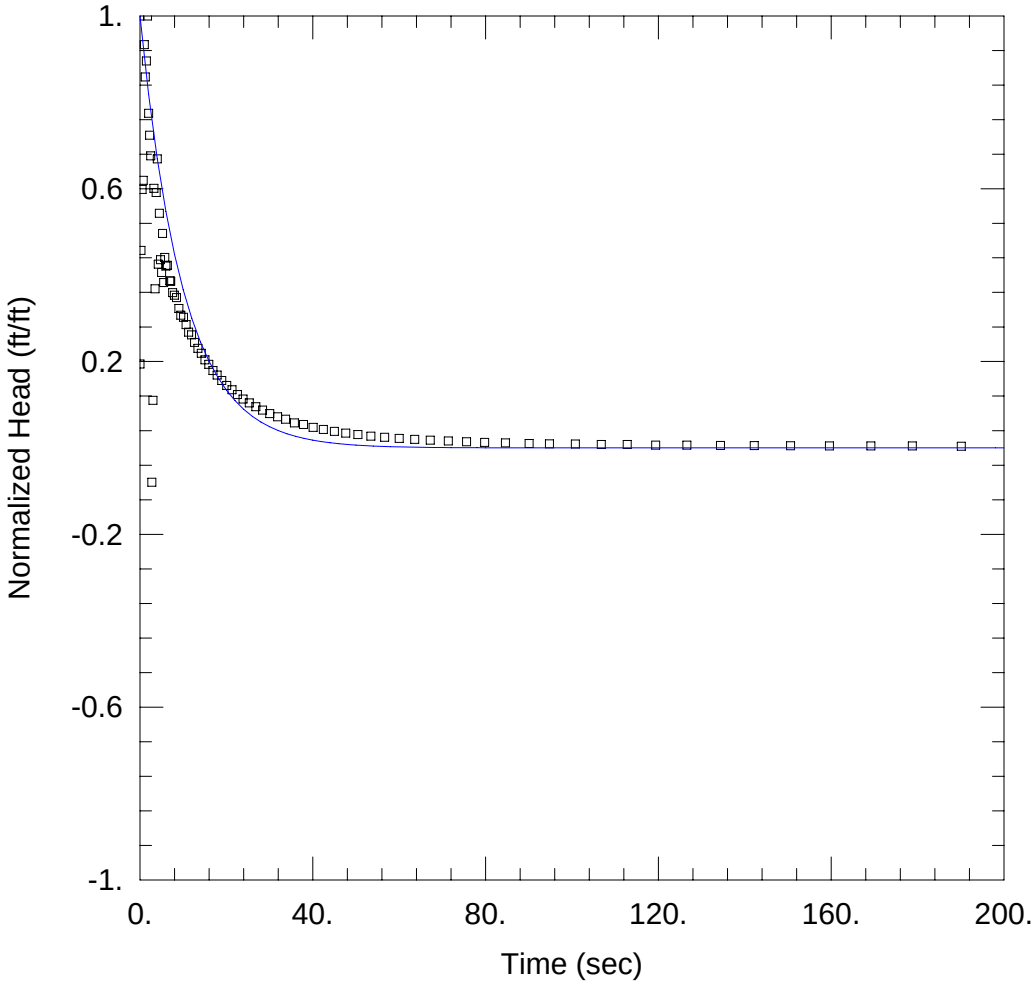
WELL DATA (KAFB106039)

Initial Displacement: 6.43 ft
Total Well Penetration Depth: 31. ft
Casing Radius: 0.198 ft
Static Water Column Height: 36. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 48.29 ft/day
Kz/Kr = 1.0E-6
Ss = 0.0002099 ft^{-1}
Le = 1. ft



KAFB106039IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106039IN-SG.aqt
Date: 10/06/11 Time: 14:21:14

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106039
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 32. ft
Anisotropy Ratio (Kz/Kr): 0.1

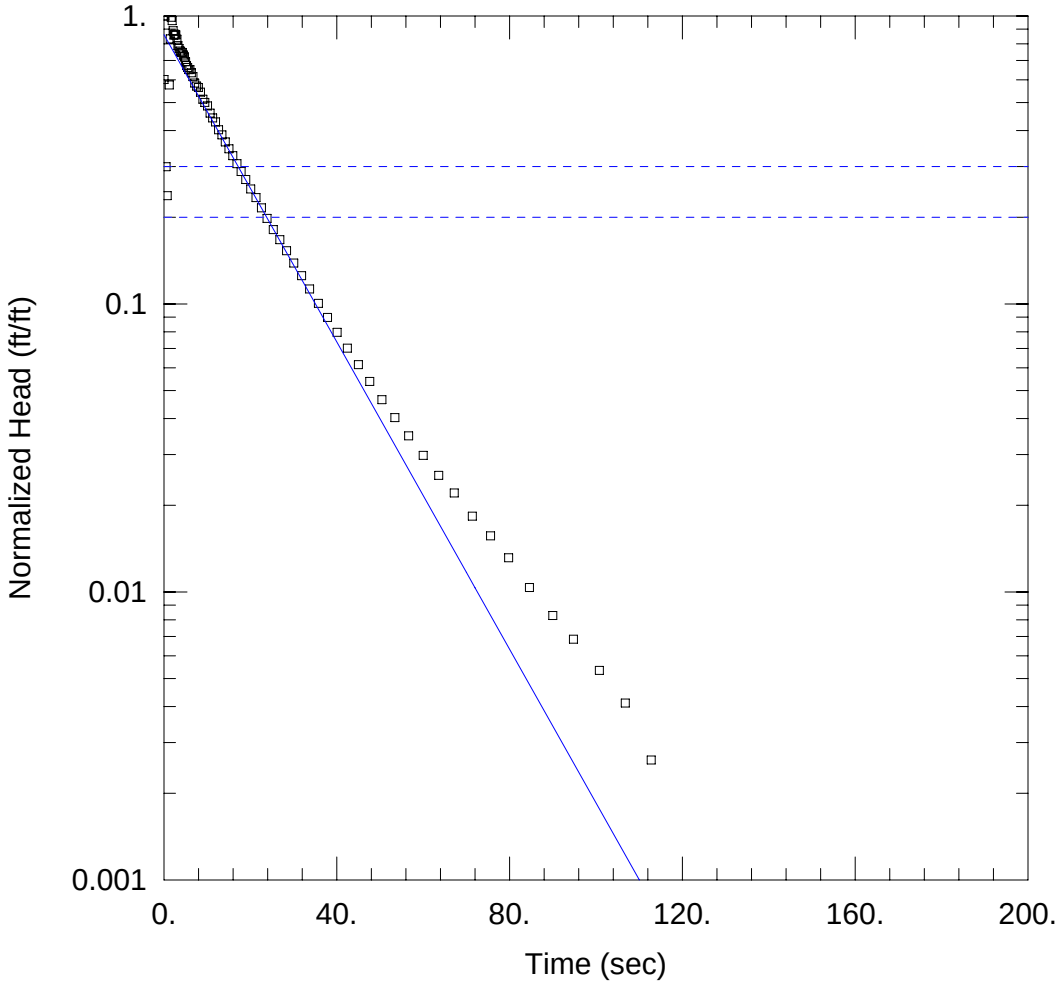
WELL DATA (KAFB106039)

Initial Displacement: 6.43 ft
Total Well Penetration Depth: 31. ft
Casing Radius: 0.198 ft
Static Water Column Height: 36. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 51.63 ft/day
Le = 1. ft



KAFB106039OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106039OUT-BR.aqt
Date: 10/06/11 Time: 14:20:28

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106039
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 32. ft
Anisotropy Ratio (Kz/Kr): 0.1

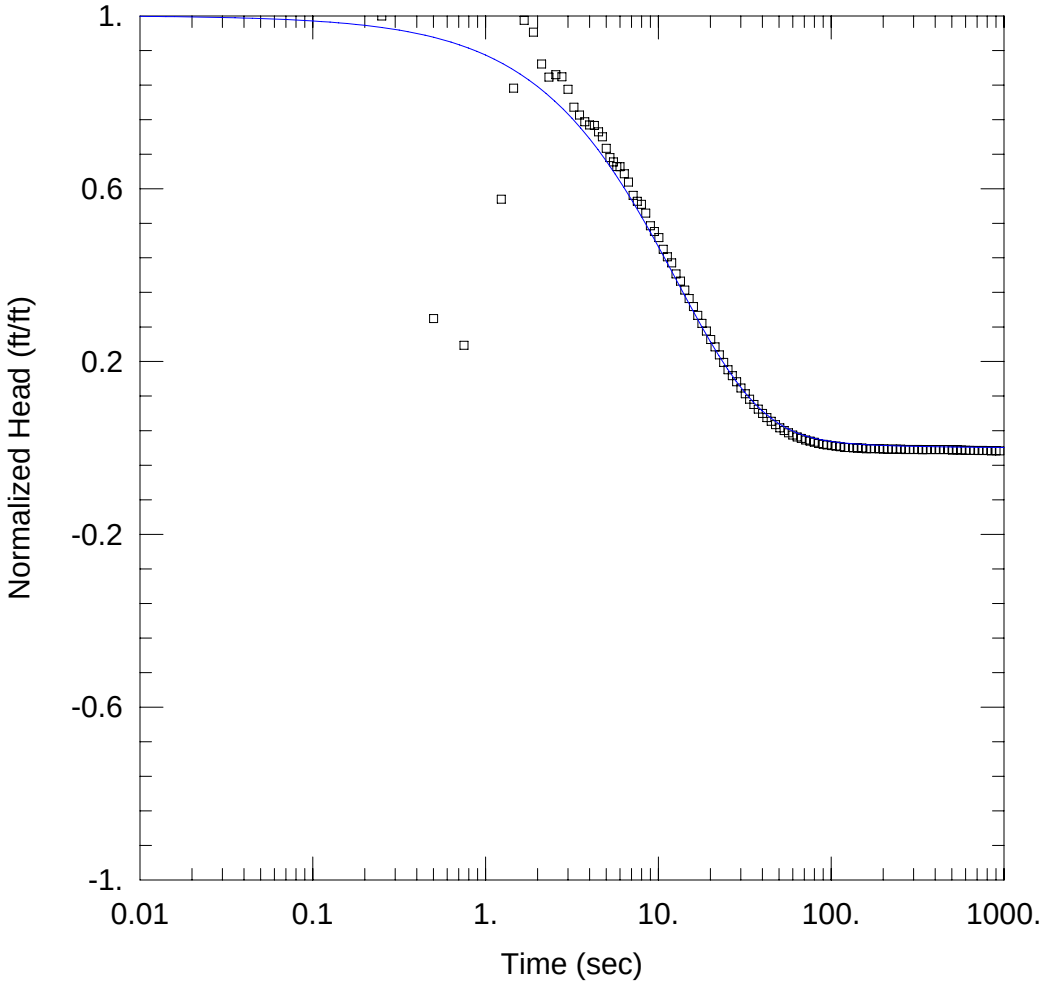
WELL DATA (KAFB106039)

Initial Displacement: 4.911 ft
Total Well Penetration Depth: 31. ft
Casing Radius: 0.198 ft
Static Water Column Height: 36. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 31.55 ft/day
y0 = 4.227 ft



KAFB106039OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106039OUT-BZ.aqt
Date: 10/06/11 Time: 14:19:43

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106039
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 32. ft
Anisotropy Ratio (Kz/Kr): 1.0E-9

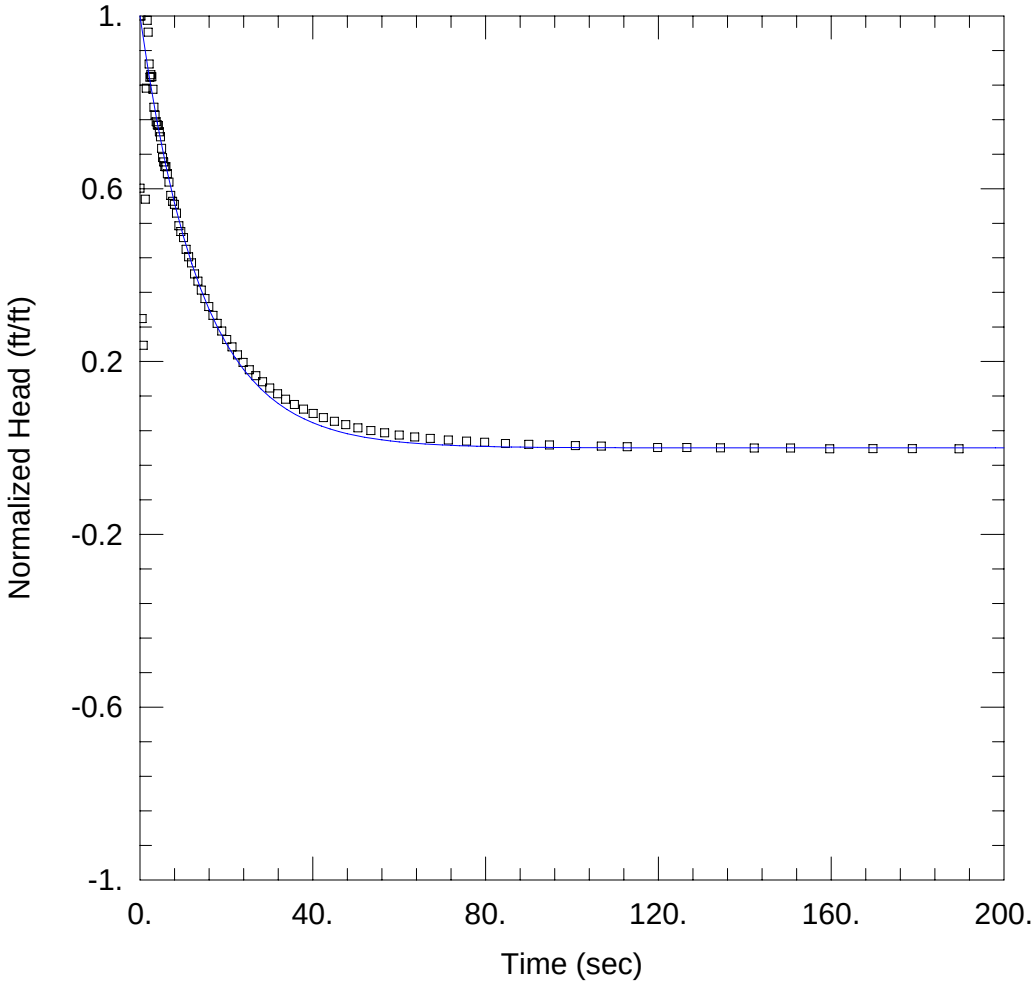
WELL DATA (KAFB106039)

Initial Displacement: 4.911 ft
Total Well Penetration Depth: 31. ft
Casing Radius: 0.198 ft
Static Water Column Height: 36. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 59. ft/day
Kz/Kr = 1.0E-9
Ss = 2.767E-7 ft^{-1}
Le = 1. ft



KAFB106039OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106039OUT-SG.aqt
Date: 10/06/11 Time: 14:25:56

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106039
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 32. ft
Anisotropy Ratio (Kz/Kr): 0.01

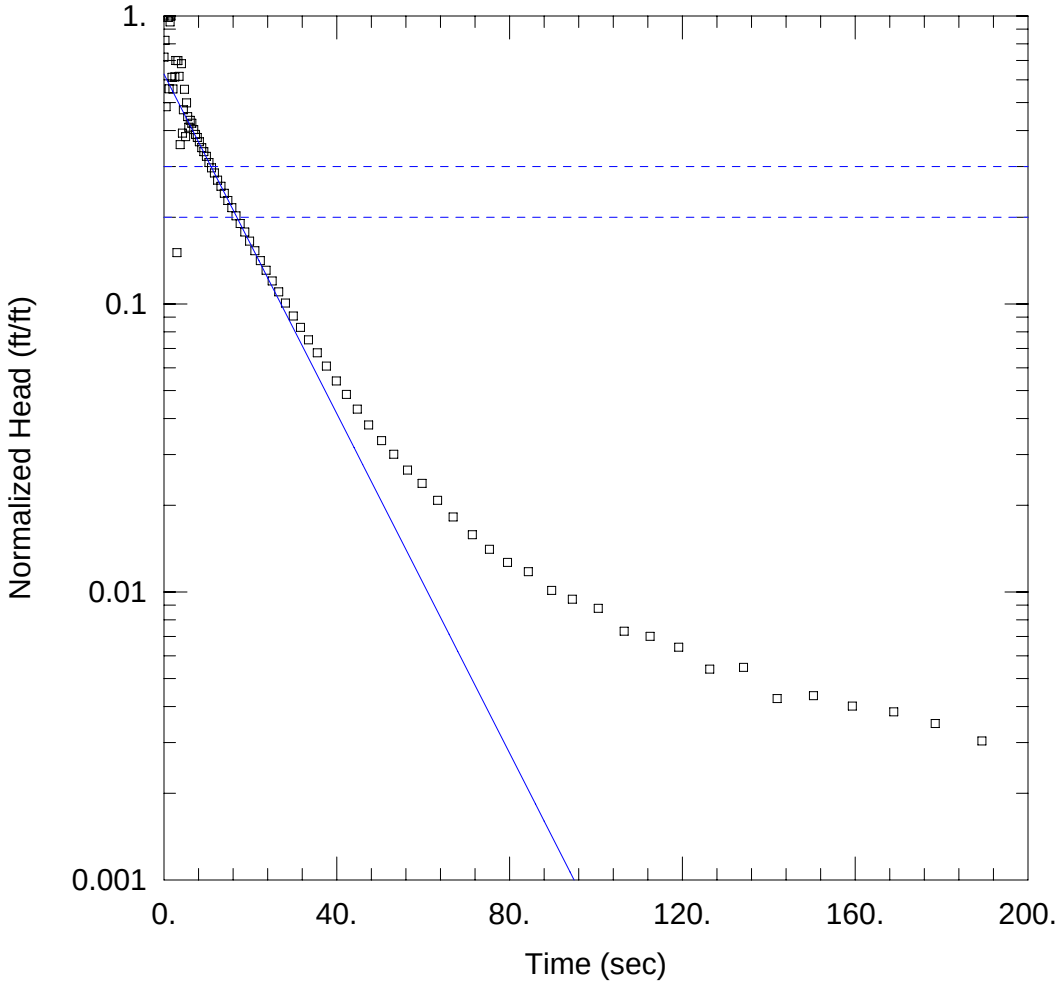
WELL DATA (KAFB106039)

Initial Displacement: 4.911 ft
Total Well Penetration Depth: 31. ft
Casing Radius: 0.198 ft
Static Water Column Height: 36. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 46.03 ft/day
Le = 1. ft



KAFB106040IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106040IN-BR.aqt
Date: 10/06/11 Time: 14:35:08

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106040
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 0.1

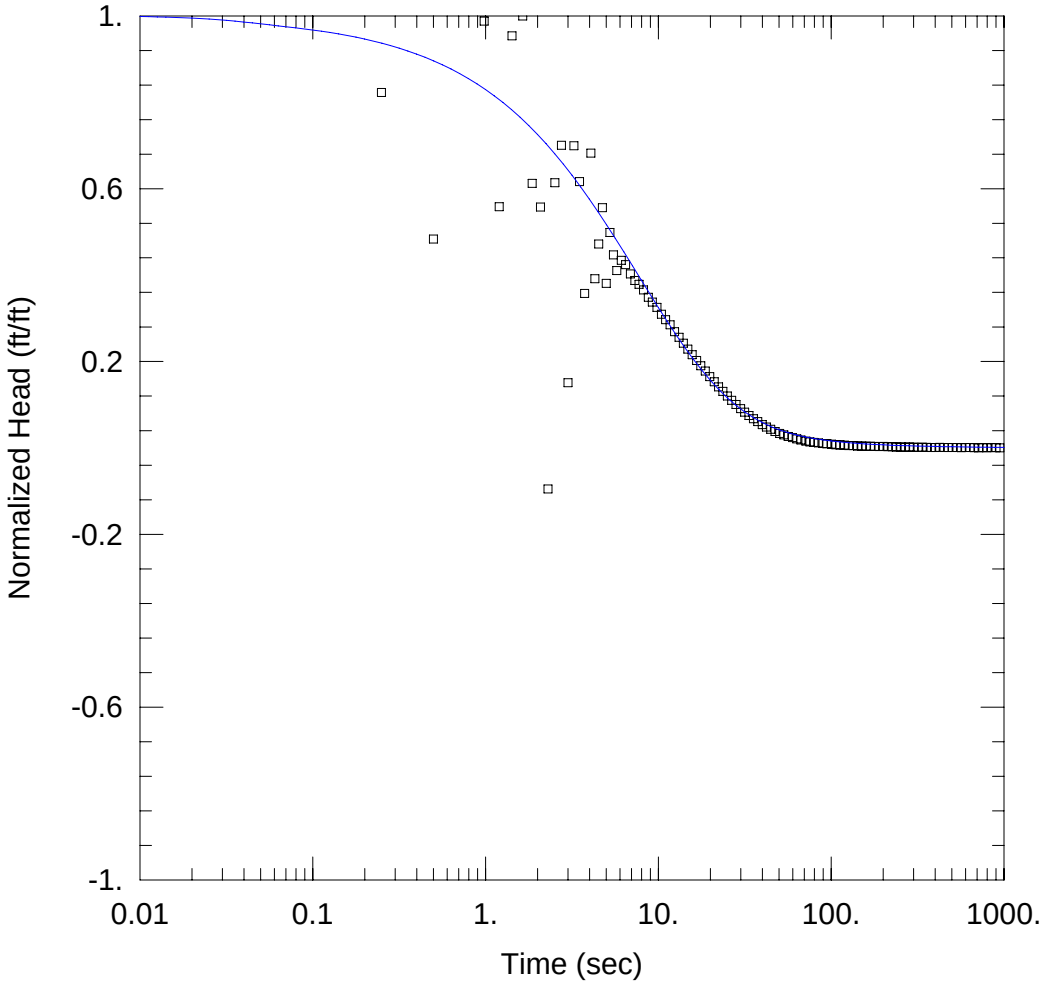
WELL DATA (KAFB106040)

Initial Displacement: 6.64 ft
Total Well Penetration Depth: 55. ft
Casing Radius: 0.198 ft
Static Water Column Height: 60. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 39.44 ft/day
y0 = 4.169 ft



KAFB106040IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106040IN-BZ.aqt
Date: 10/06/11 Time: 14:34:38

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106040
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 1.0E-6

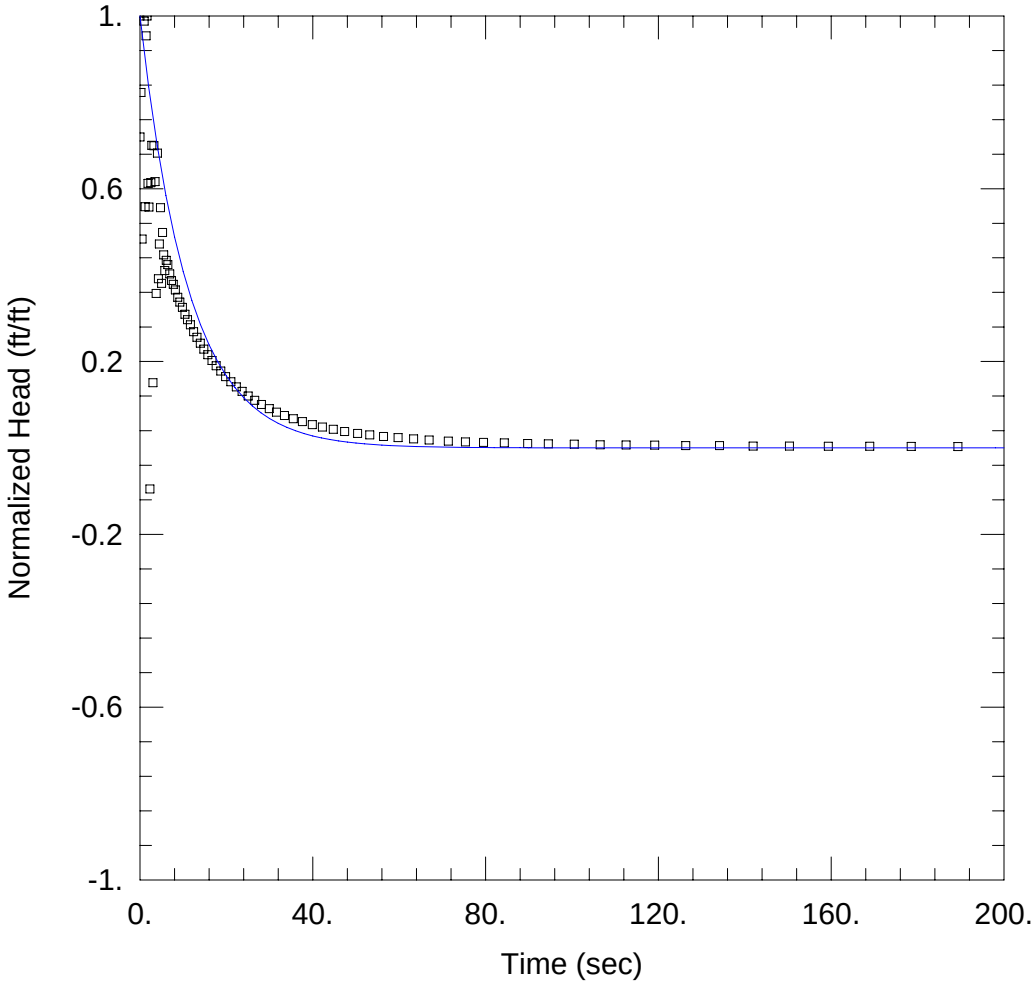
WELL DATA (KAFB106040)

Initial Displacement: 6.64 ft
Total Well Penetration Depth: 55. ft
Casing Radius: 0.198 ft
Static Water Column Height: 60. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 45.28 ft/day
Kz/Kr = 1.0E-6
Ss = 0.0002239 ft^{-1}
Le = 1. ft



KAFB106040IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106040IN-SG.aqt
Date: 10/06/11 Time: 14:32:18

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106040
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 0.1

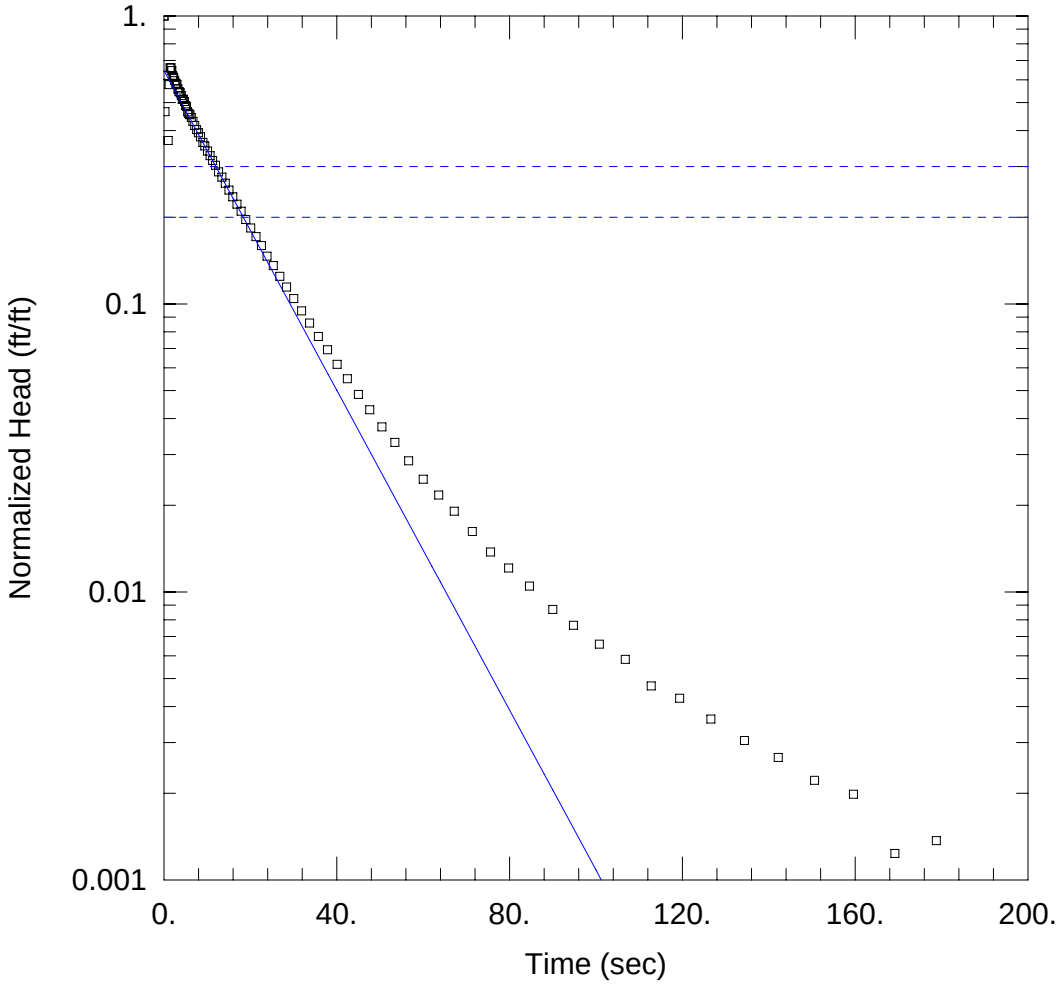
WELL DATA (KAFB106040)

Initial Displacement: 6.64 ft
Total Well Penetration Depth: 55. ft
Casing Radius: 0.198 ft
Static Water Column Height: 60. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 52.09 ft/day
Le = 1. ft



KAFB106040OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106040OUT-BR.aqt
Date: 10/06/11 Time: 14:31:31

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106040
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 0.01

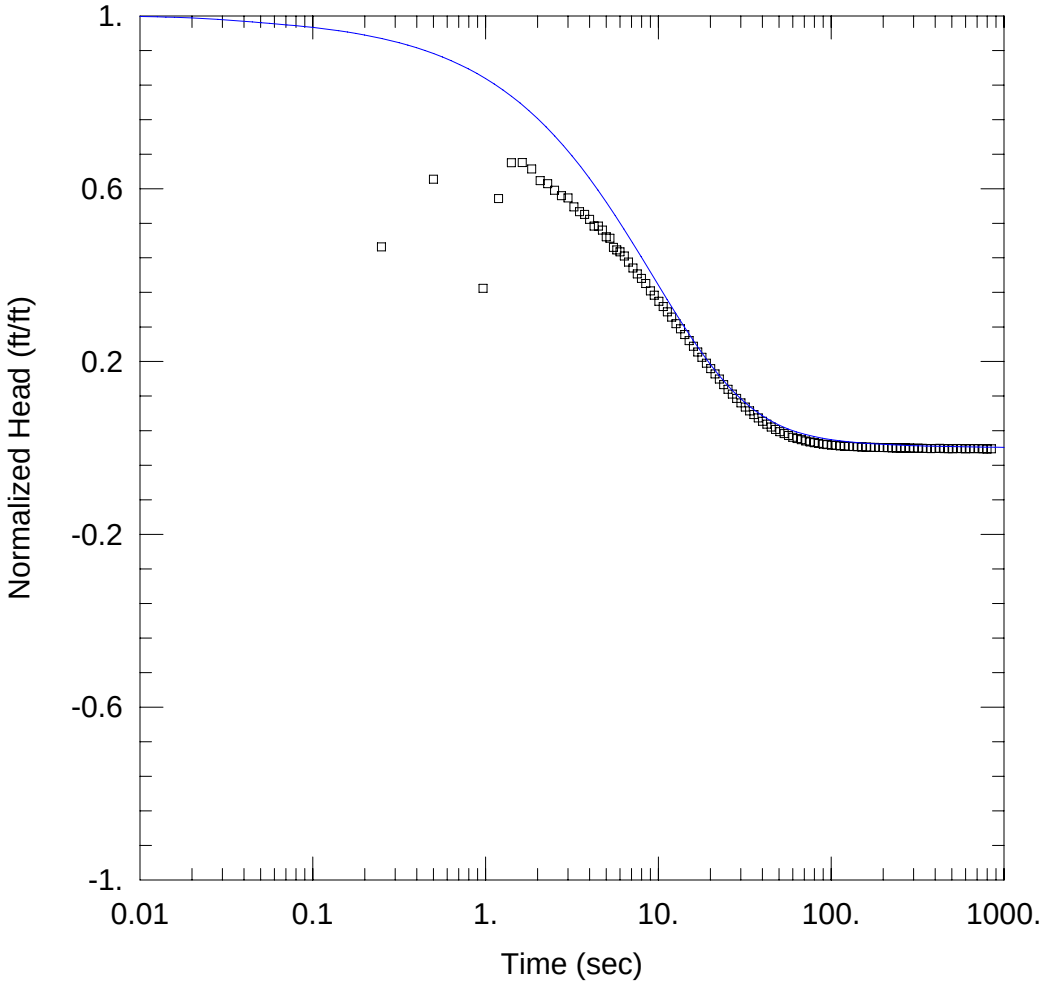
WELL DATA (KAFB106040)

Initial Displacement: 7.296 ft
Total Well Penetration Depth: 55. ft
Casing Radius: 0.198 ft
Static Water Column Height: 60. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 46.75 ft/day
y0 = 4.713 ft



KAFB106040OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106040OUT-BZ.aqt
Date: 10/06/11 Time: 14:31:10

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106040
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 1.0E-7

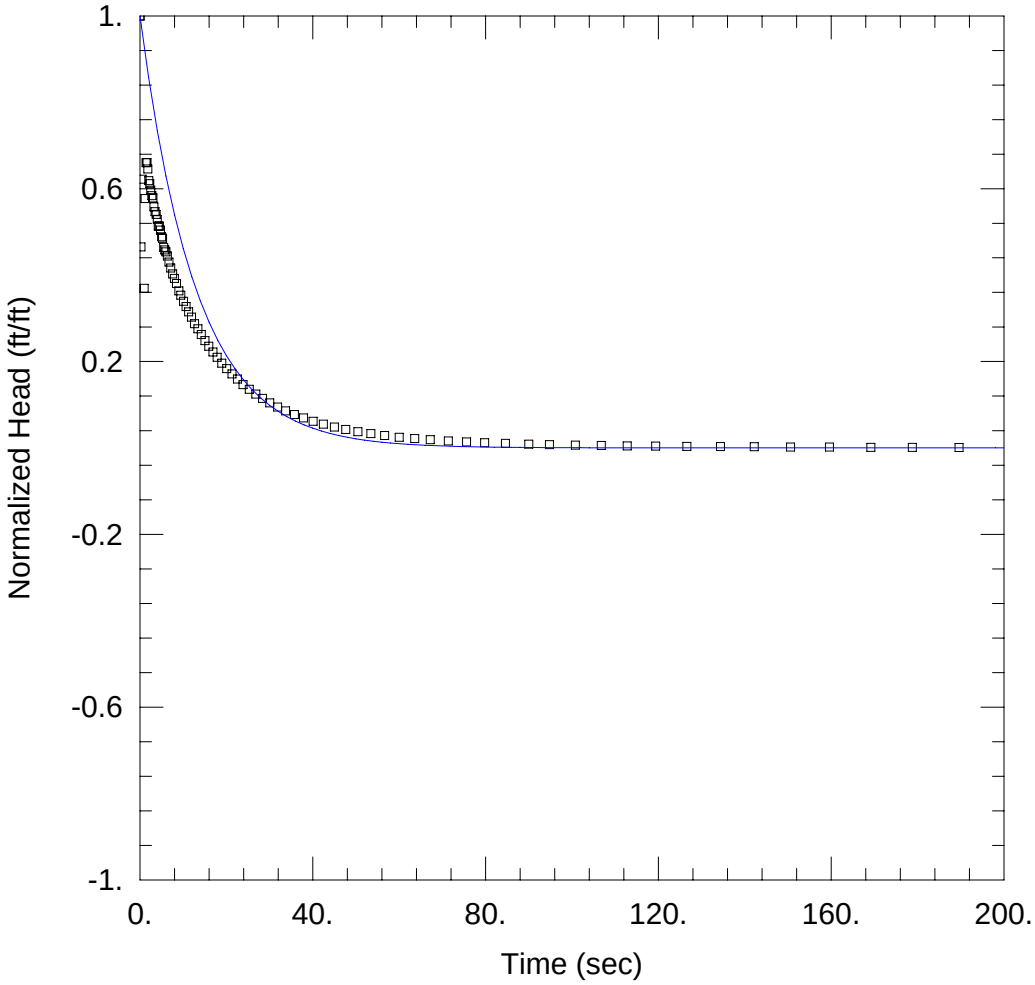
WELL DATA (KAFB106040)

Initial Displacement: 7.296 ft
Total Well Penetration Depth: 55. ft
Casing Radius: 0.198 ft
Static Water Column Height: 60. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 40.12 ft/day
Kz/Kr = 1.0E-7
Ss = 0.0001479 ft^{-1}
Le = 1. ft



KAFB106040OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106040OUT-SG.aqt
Date: 10/06/11 Time: 14:35:38

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106040
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 0.01

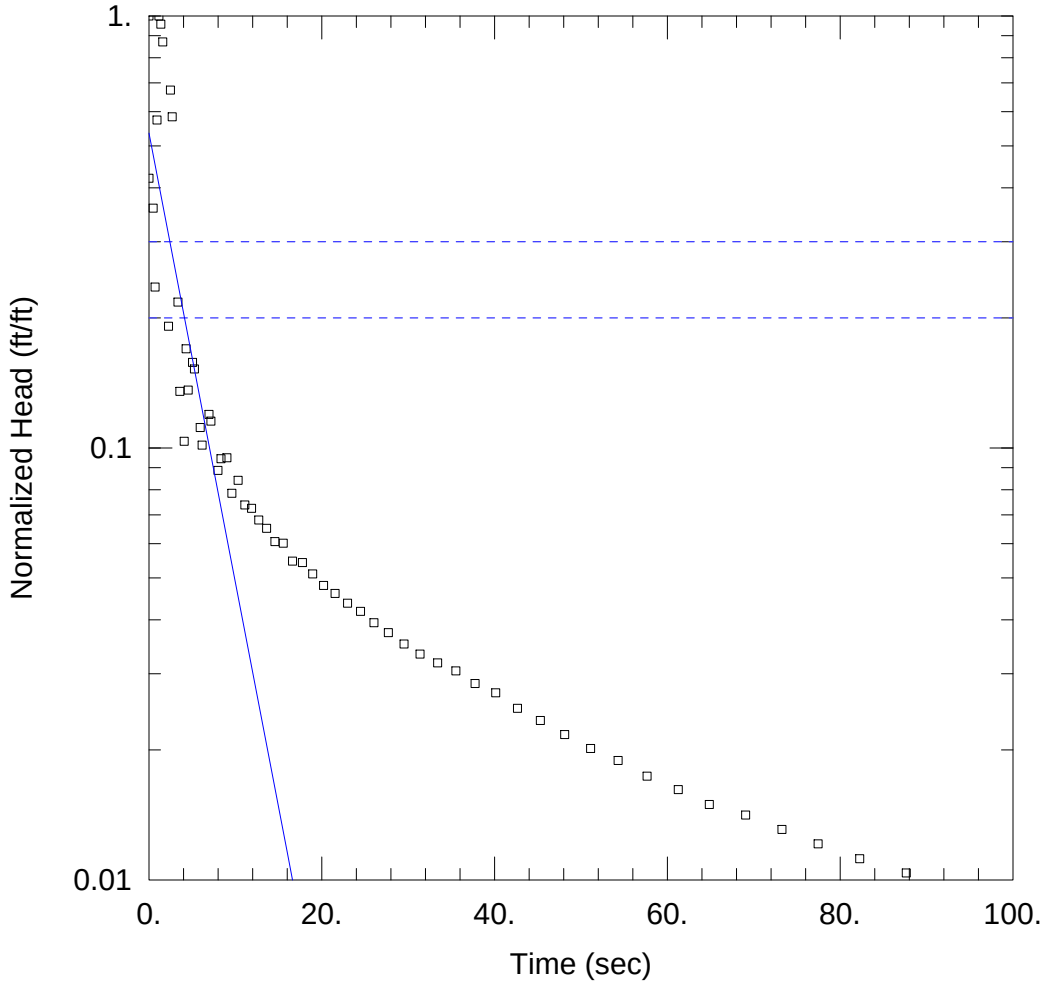
WELL DATA (KAFB106040)

Initial Displacement: 7.296 ft
Total Well Penetration Depth: 55. ft
Casing Radius: 0.198 ft
Static Water Column Height: 60. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 56.48 ft/day
Le = 1. ft



KAFB106042IN

Data Set: C:\...\KAFB106042IN-BR[1].aqt
Date: 08/27/11 Time: 13:05:40

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106042
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 31.1 ft Anisotropy Ratio (Kz/Kr): 0.1

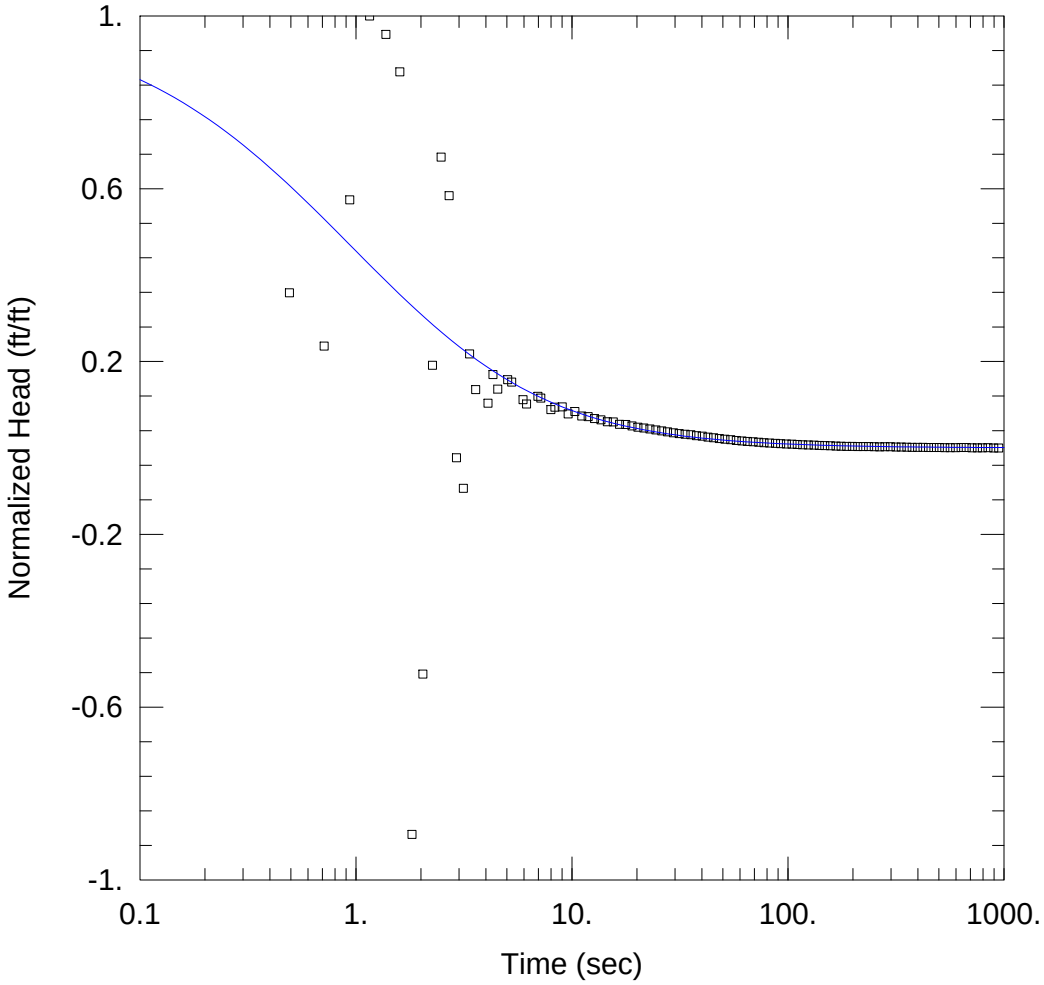
WELL DATA (KAFB106042)

Initial Displacement: 10.91 ft
Total Well Penetration Depth: 14.73 ft
Casing Radius: 0.198 ft
Static Water Column Height: 19.63 ft
Screen Length: 14.63 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 106.7 ft/day y0 = 5.843 ft



KAFB106042IN

Data Set: C:\...\KAFB106042IN-KGS[1].aqt
Date: 08/27/11 Time: 13:07:32

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106042
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 31.1 ft

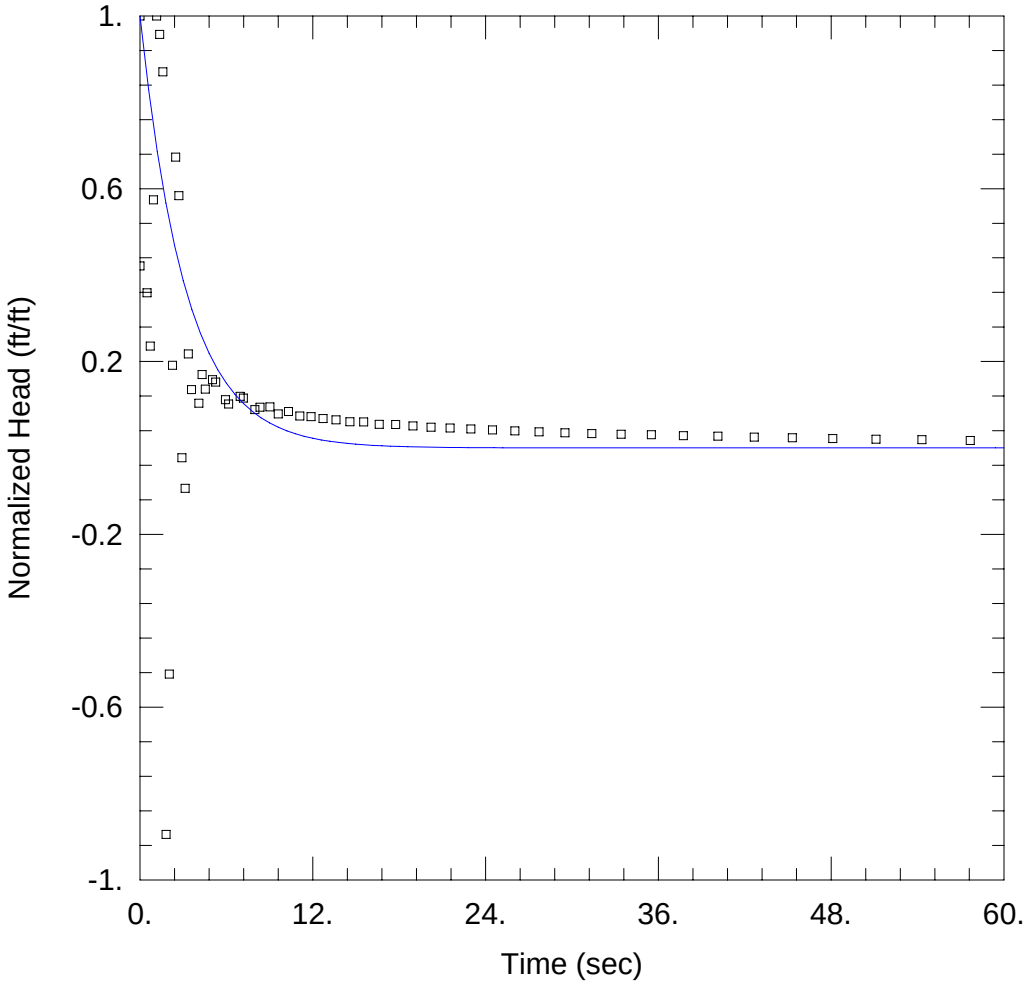
WELL DATA (KAFB106042)

Initial Displacement: 10.91 ft
Total Well Penetration Depth: 14.73 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 19.63 ft
Screen Length: 14.63 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 55.97 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.01585 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106042IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106042IN-SG.aqt
Date: 08/29/11 Time: 15:02:37

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106042
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 31.1 ft
Anisotropy Ratio (Kz/Kr): 0.1

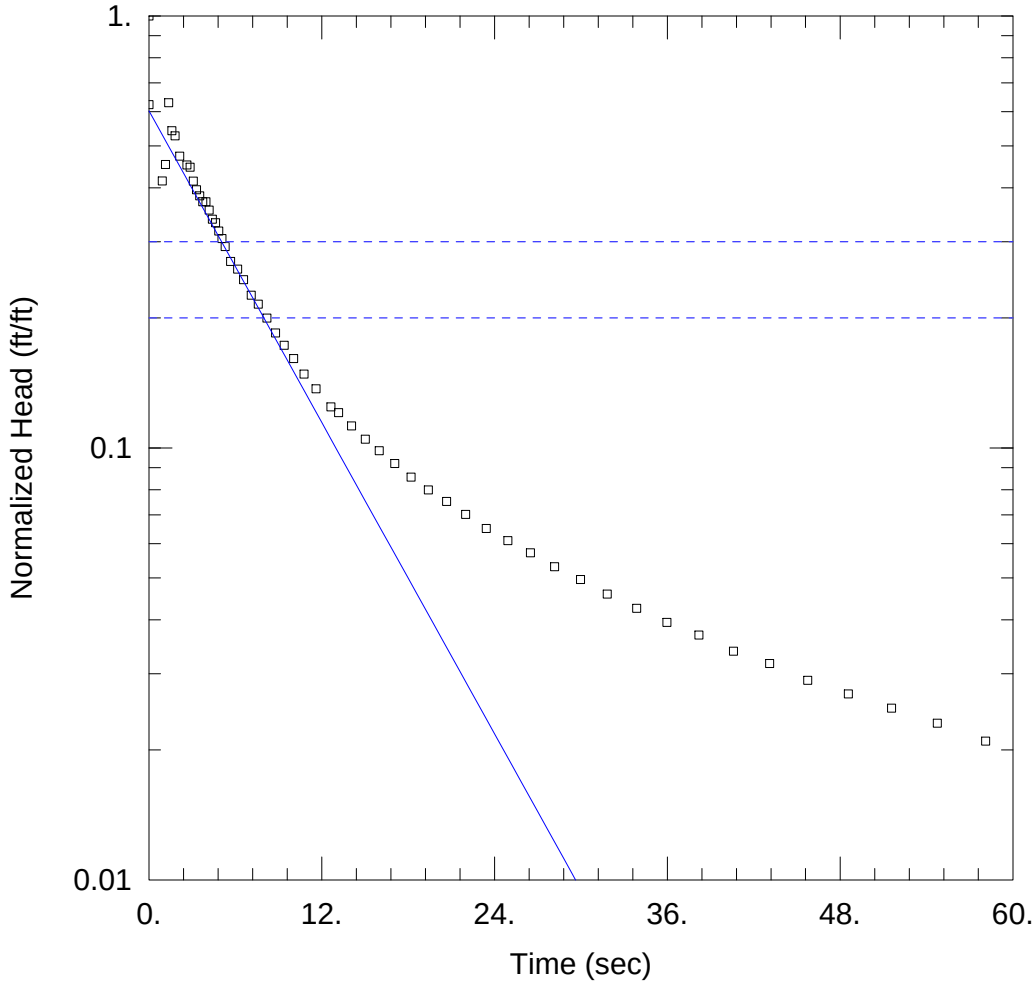
WELL DATA (KAFB106042)

Initial Displacement: 10.91 ft
Total Well Penetration Depth: 14.1 ft
Casing Radius: 0.198 ft
Static Water Column Height: 19.63 ft
Screen Length: 14.1 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 144.5 ft/day
Le = 1. ft



KAFB106042OUT

Data Set: C:\...\KAFB106042OUT-BR[1].aqt
Date: 08/27/11 Time: 13:09:53

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106042
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 31.1 ft Anisotropy Ratio (Kz/Kr): 0.1

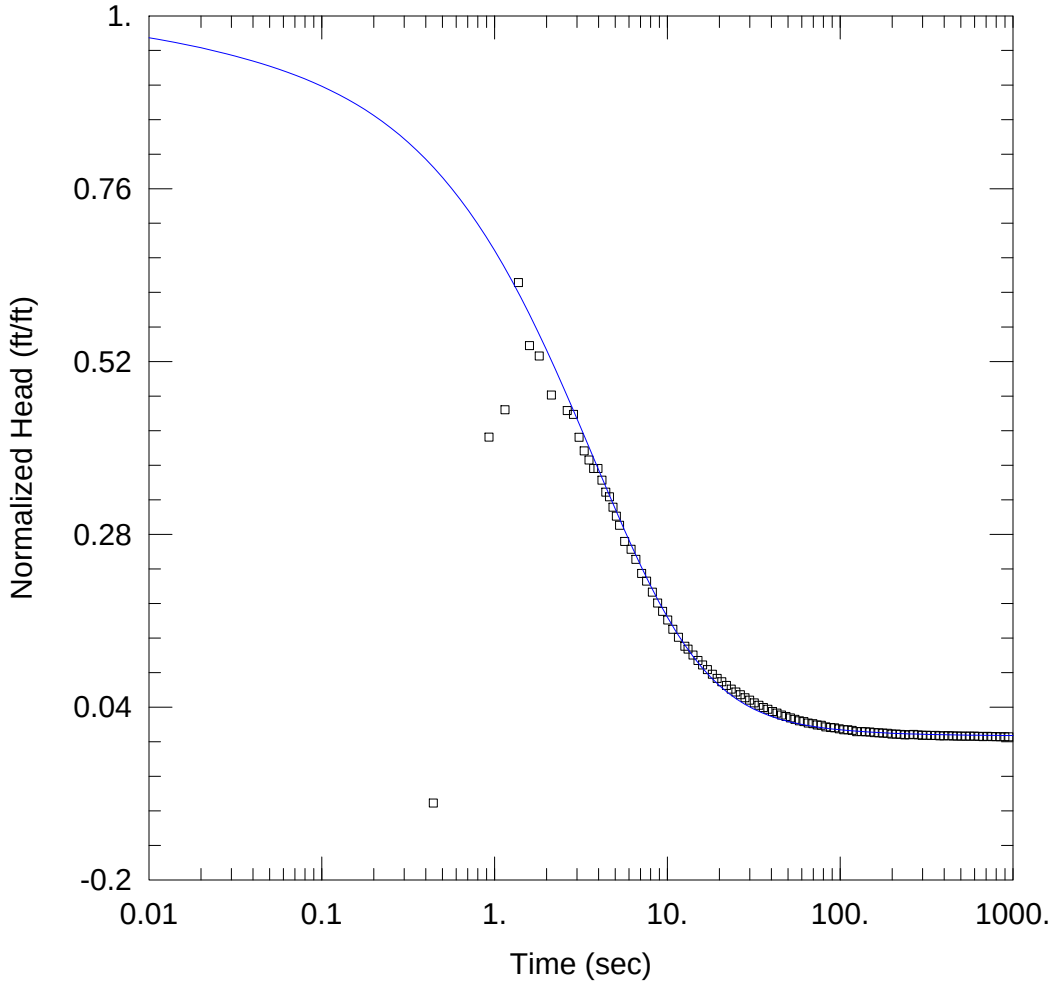
WELL DATA (KAFB106042)

Initial Displacement: 7.166 ft
Total Well Penetration Depth: 14.73 ft
Casing Radius: 0.198 ft
Static Water Column Height: 19.63 ft
Screen Length: 14.63 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 61.61 ft/day y0 = 4.32 ft



KAFB106042OUT

Data Set: C:\...\KAFB106042OUT-KGS[1].aqt
Date: 08/27/11 Time: 13:11:33

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106042
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 31.1 ft

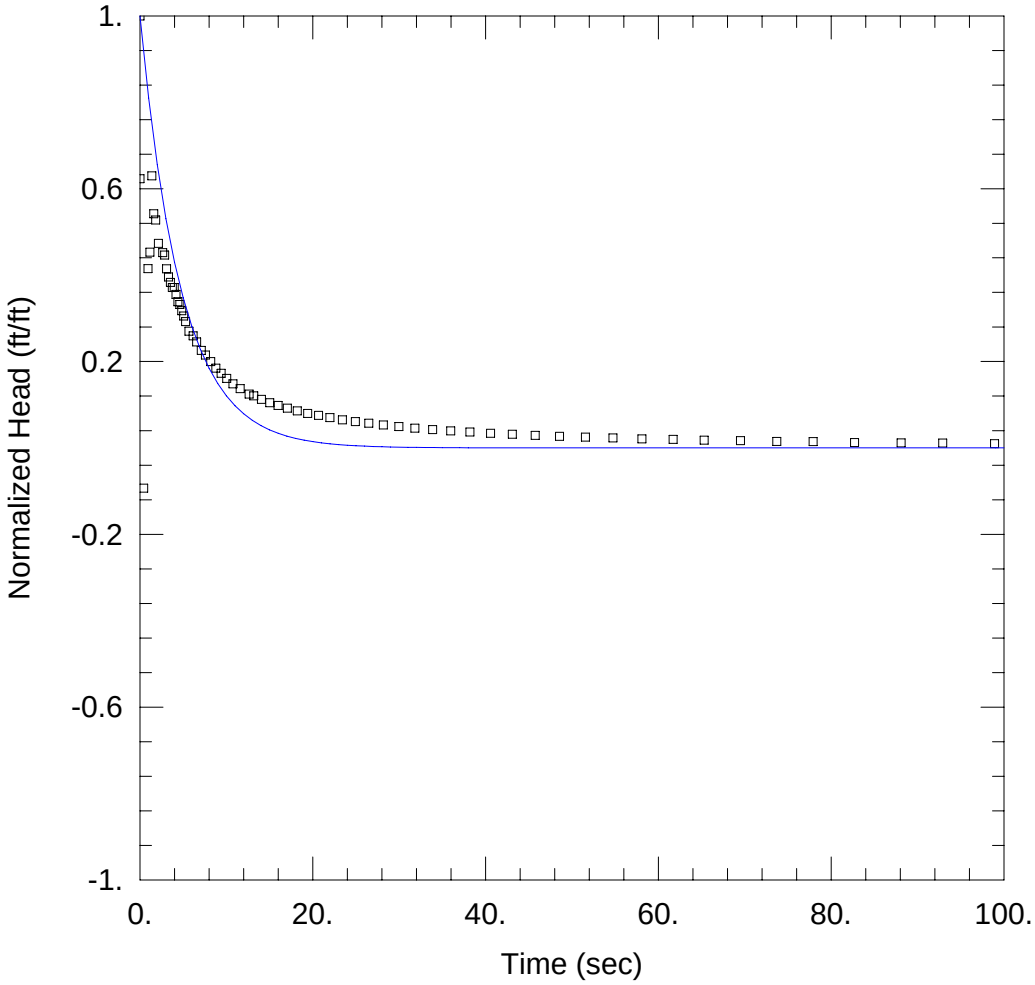
WELL DATA (KAFB106042)

Initial Displacement: 7.166 ft
Total Well Penetration Depth: 14.73 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 19.63 ft
Screen Length: 14.63 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 65.88 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.0005689 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106042OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106042OUT-SG.aqt
Date: 08/29/11 Time: 15:07:19

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106042
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 31.1 ft
Anisotropy Ratio (Kz/Kr): 0.1

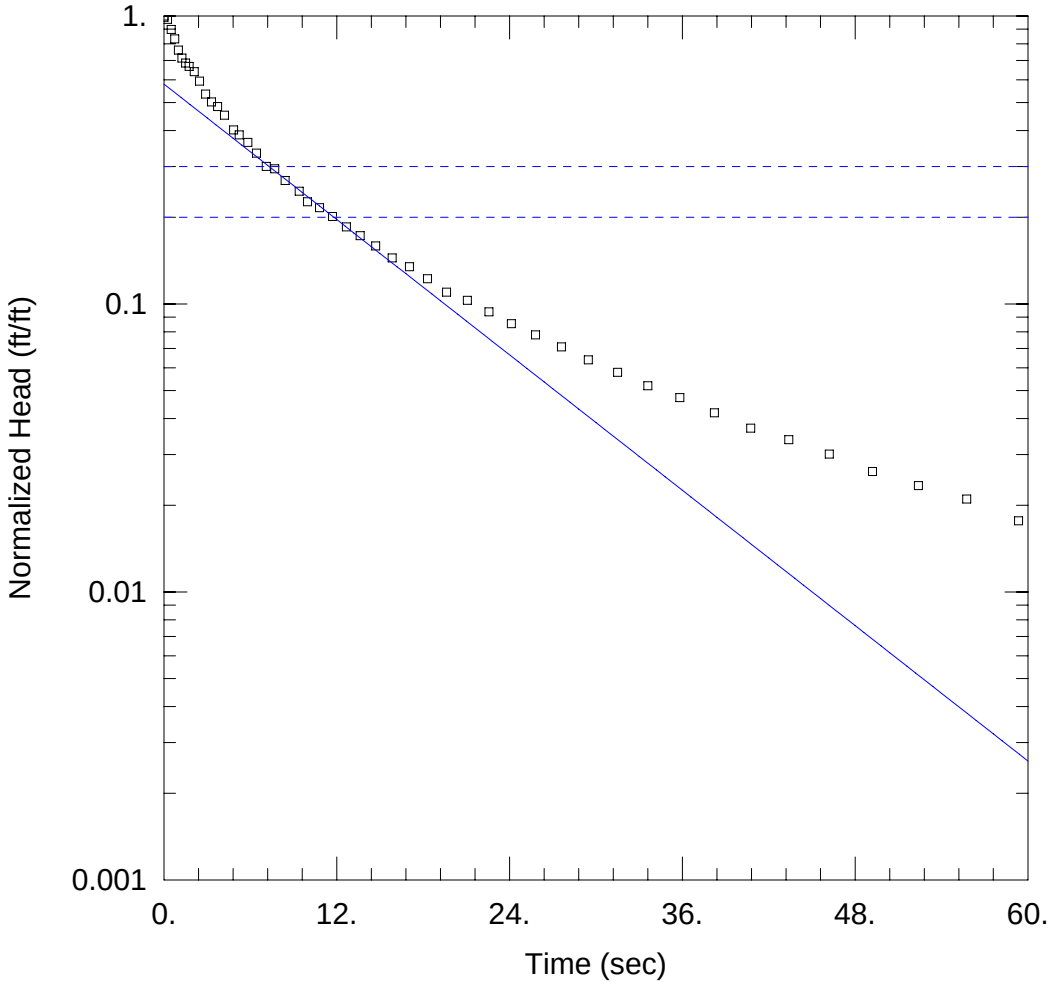
WELL DATA (KAFB106042)

Initial Displacement: 7.166 ft
Total Well Penetration Depth: 14.1 ft
Casing Radius: 0.198 ft
Static Water Column Height: 19.63 ft
Screen Length: 14.1 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 96.65 ft/day
Le = 1. ft



KAFB106050P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106050P1-BR.aqt
Date: 08/29/11 Time: 15:19:21

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106050
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 23. ft
Anisotropy Ratio (Kz/Kr): 0.1

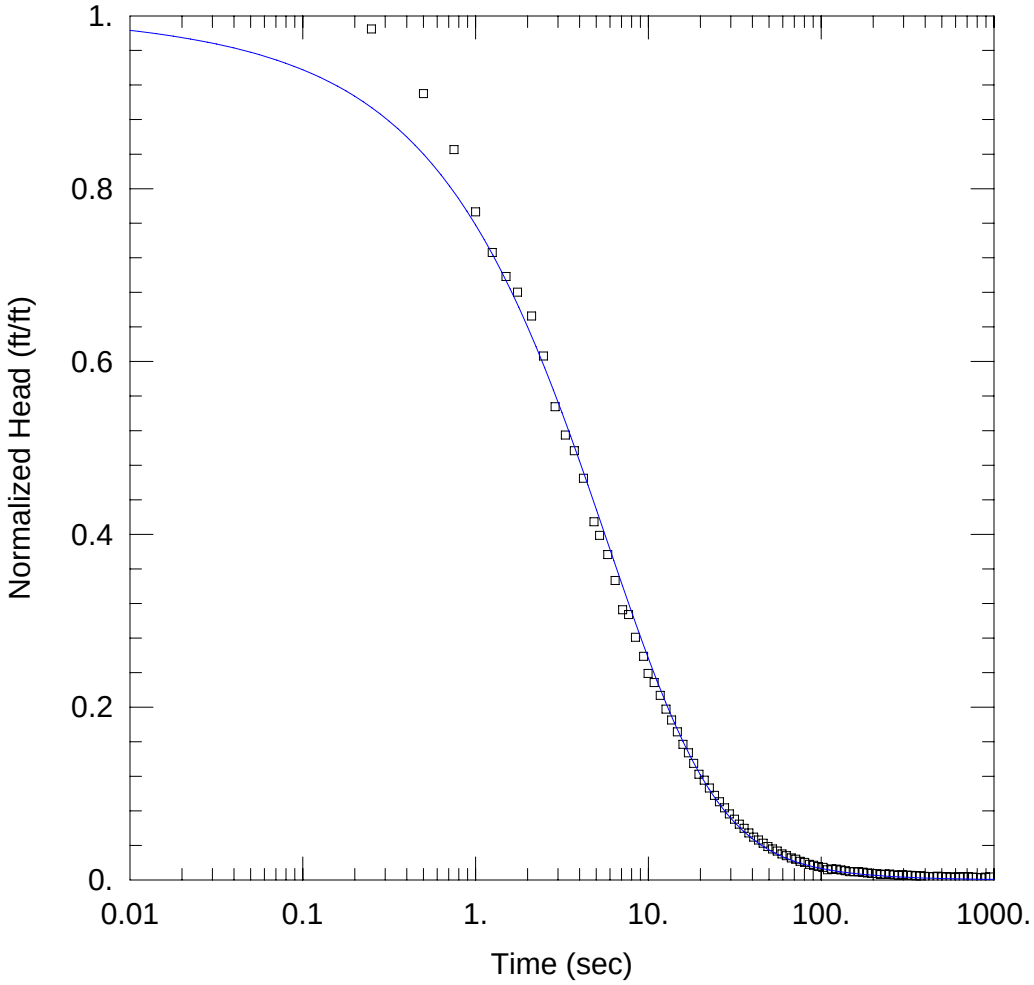
WELL DATA (KAFB106050)

Initial Displacement: 2.4 ft
Total Well Penetration Depth: 30.4 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.57 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 48.54 ft/day
y0 = 1.391 ft



KAFB106050P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106050P1-KGS.aqt
Date: 08/29/11 Time: 15:20:06

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106050
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 23. ft

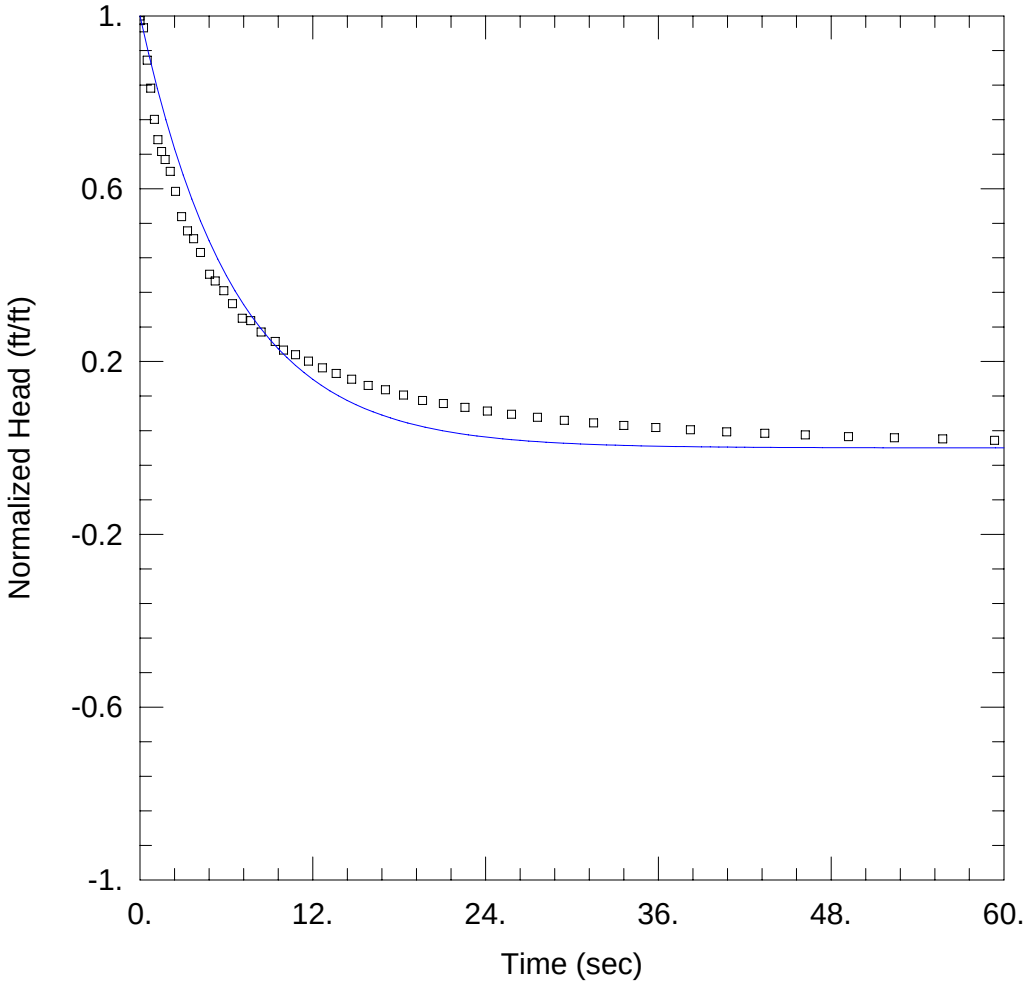
WELL DATA (KAFB106050)

Initial Displacement: 2.4 ft
Total Well Penetration Depth: 30.4 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 34.57 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 81.02 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.001148 ft^{-1}
Kr' = 199. ft/day
Kz/Kr' = 1.



KAFB106050P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106050P1-SG.aqt
Date: 08/29/11 Time: 15:20:53

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106050
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 23. ft
Anisotropy Ratio (Kz/Kr): 0.1

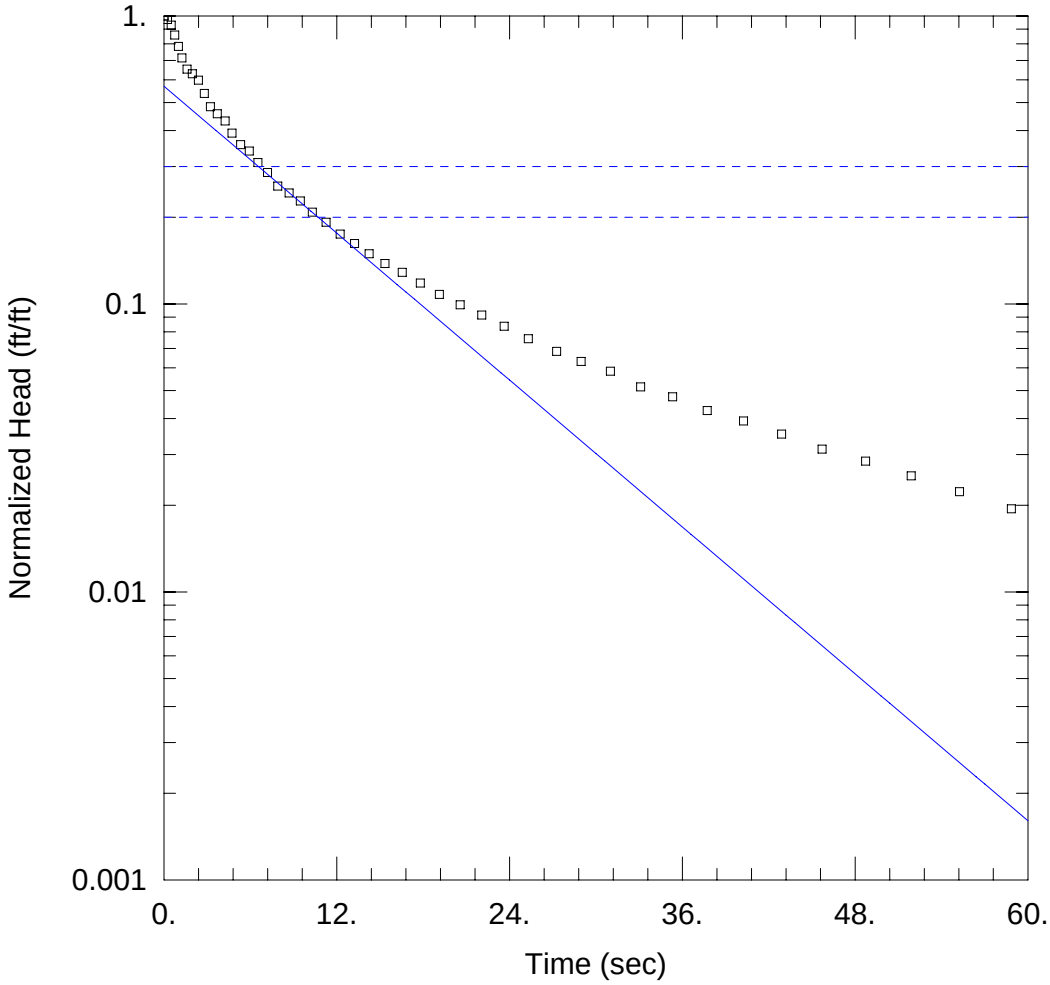
WELL DATA (KAFB106050)

Initial Displacement: 2.4 ft
Total Well Penetration Depth: 30.4 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.57 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 82.5 ft/day
Le = 1. ft



KAFB106050P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106050P2-BR.aqt
Date: 08/29/11 Time: 15:21:30

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106050
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 23. ft
Anisotropy Ratio (Kz/Kr): 0.1

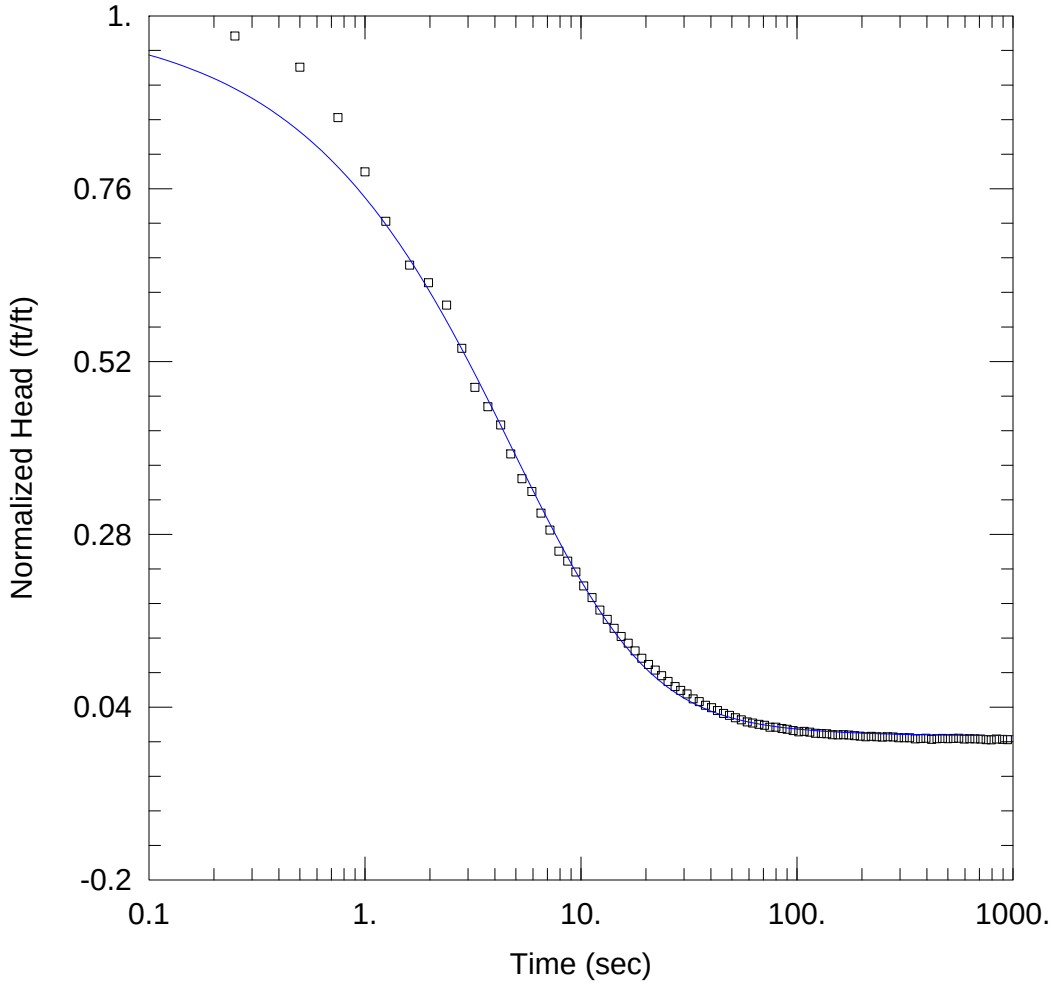
WELL DATA (KAFB106050)

Initial Displacement: 2.352 ft
Total Well Penetration Depth: 30.4 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.57 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 52.67 ft/day
y0 = 1.34 ft



KAFB106050P2

Data Set: C:\...\KAFB106050P2-KGS[1].aqt
Date: 08/27/11 Time: 13:27:26

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106050
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 23. ft

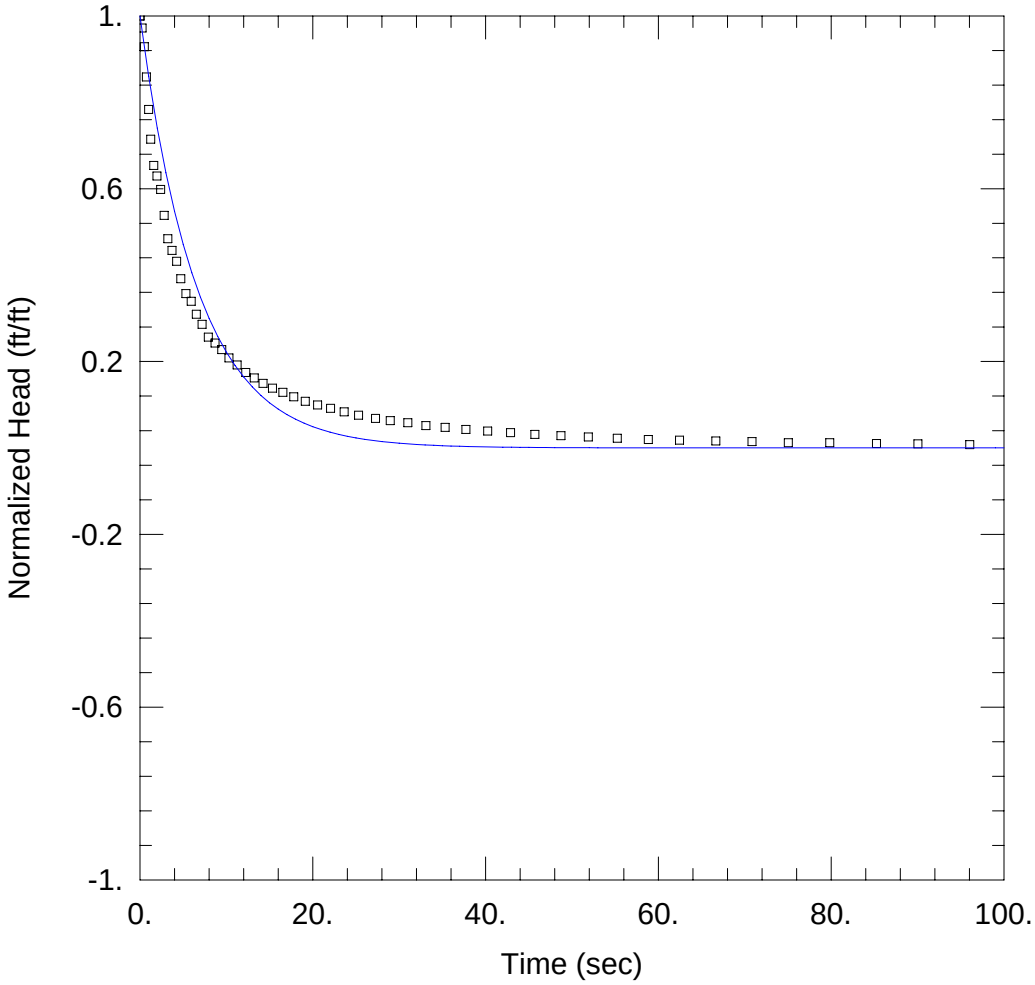
WELL DATA (KAFB106050)

Initial Displacement: 2.352 ft
Total Well Penetration Depth: 30.4 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 34.75 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 103.5 ft/day
Kz/Kr = 0.1
Ss' = 0.0003548 ft^{-1}
Ss = 0.001 ft^{-1}
Kr' = 193.1 ft/day
Kz/Kr' = 1.



KAFB106050P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106050P2-SG.aqt
Date: 08/29/11 Time: 15:22:39

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106050
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 23. ft
Anisotropy Ratio (Kz/Kr): 0.1

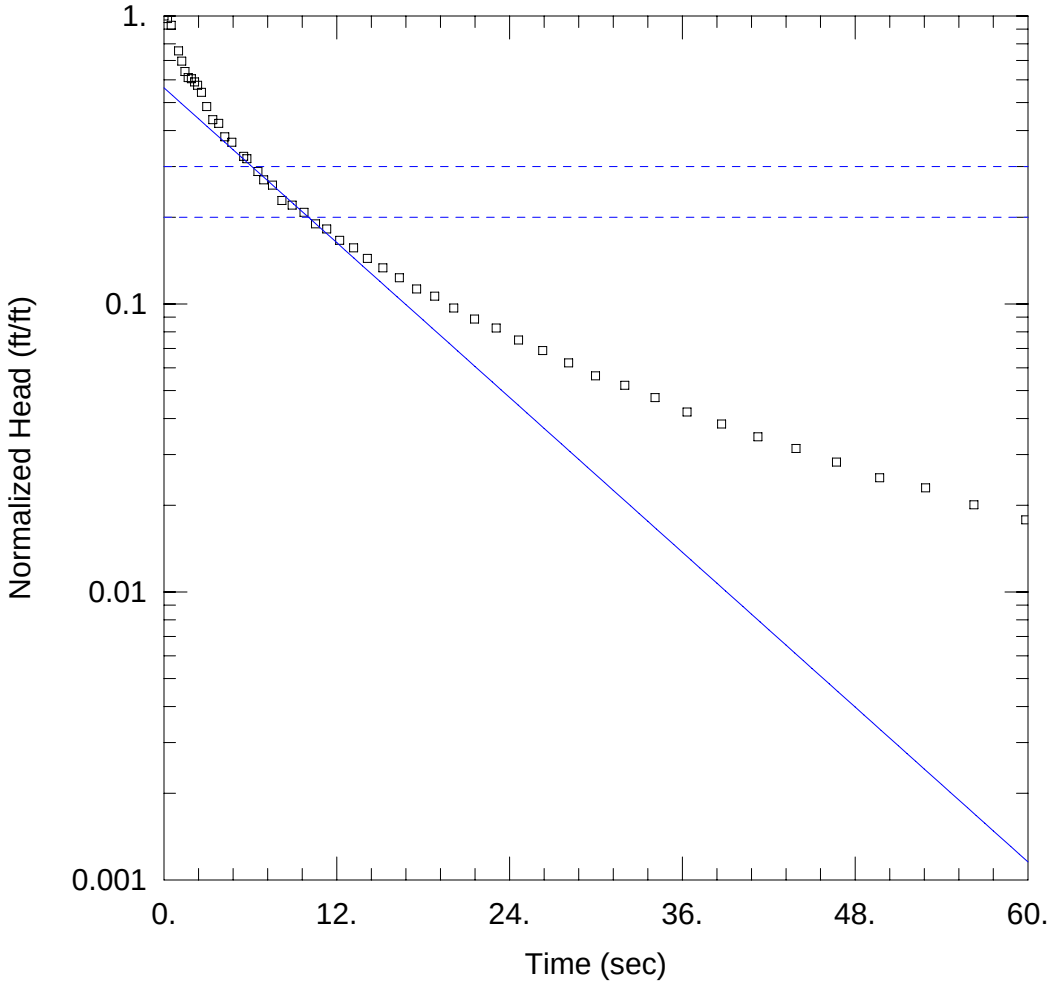
WELL DATA (KAFB106050)

Initial Displacement: 2.352 ft
Total Well Penetration Depth: 30.4 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.57 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 81.05 ft/day
Le = 1. ft



KAFB106050P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106050P3-BR.aqt
Date: 08/29/11 Time: 15:23:50

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106050
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 23. ft
Anisotropy Ratio (Kz/Kr): 0.1

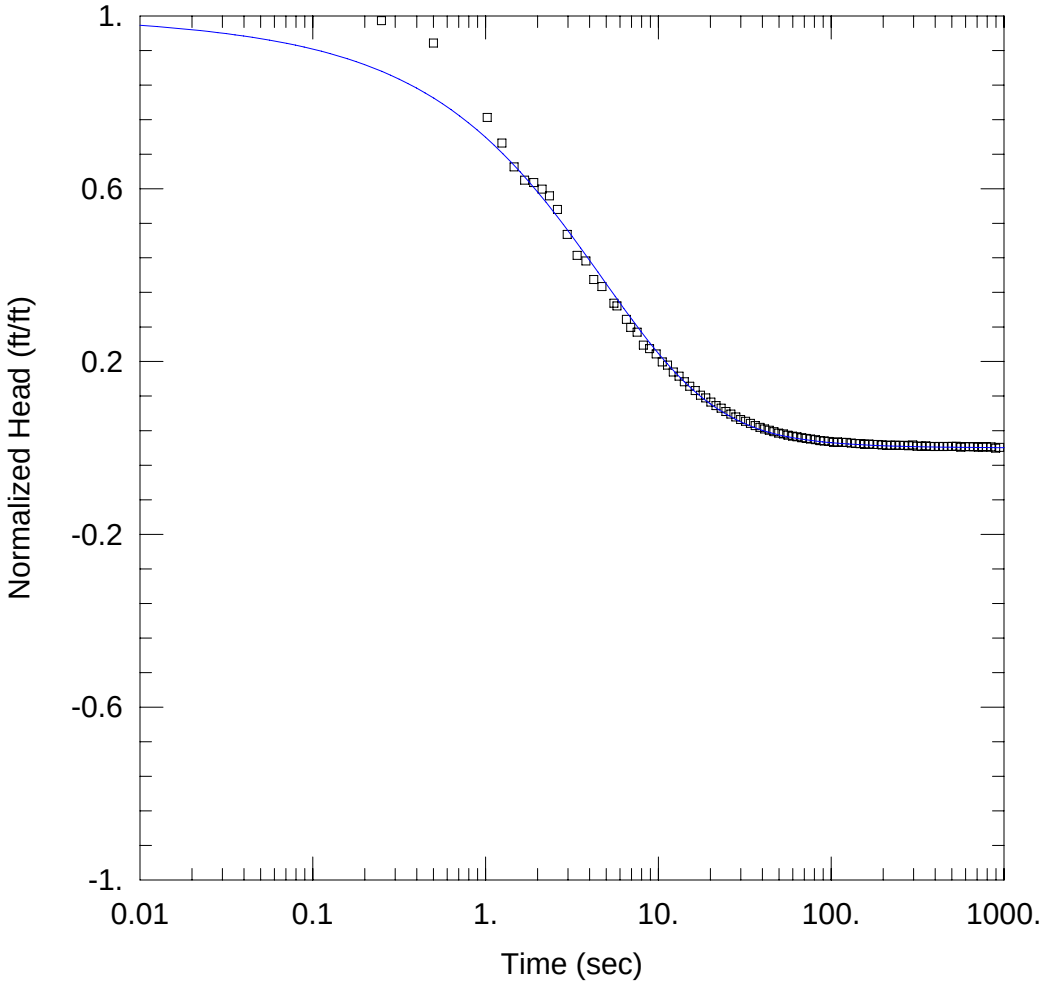
WELL DATA (KAFB106050)

Initial Displacement: 2.125 ft
Total Well Penetration Depth: 30.4 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.57 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 55.51 ft/day
y0 = 1.196 ft



KAFB106050P3

Data Set: C:\...\KAFB106050P3-KGS[1].aqt
Date: 11/03/11 Time: 16:15:09

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106050
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 23. ft

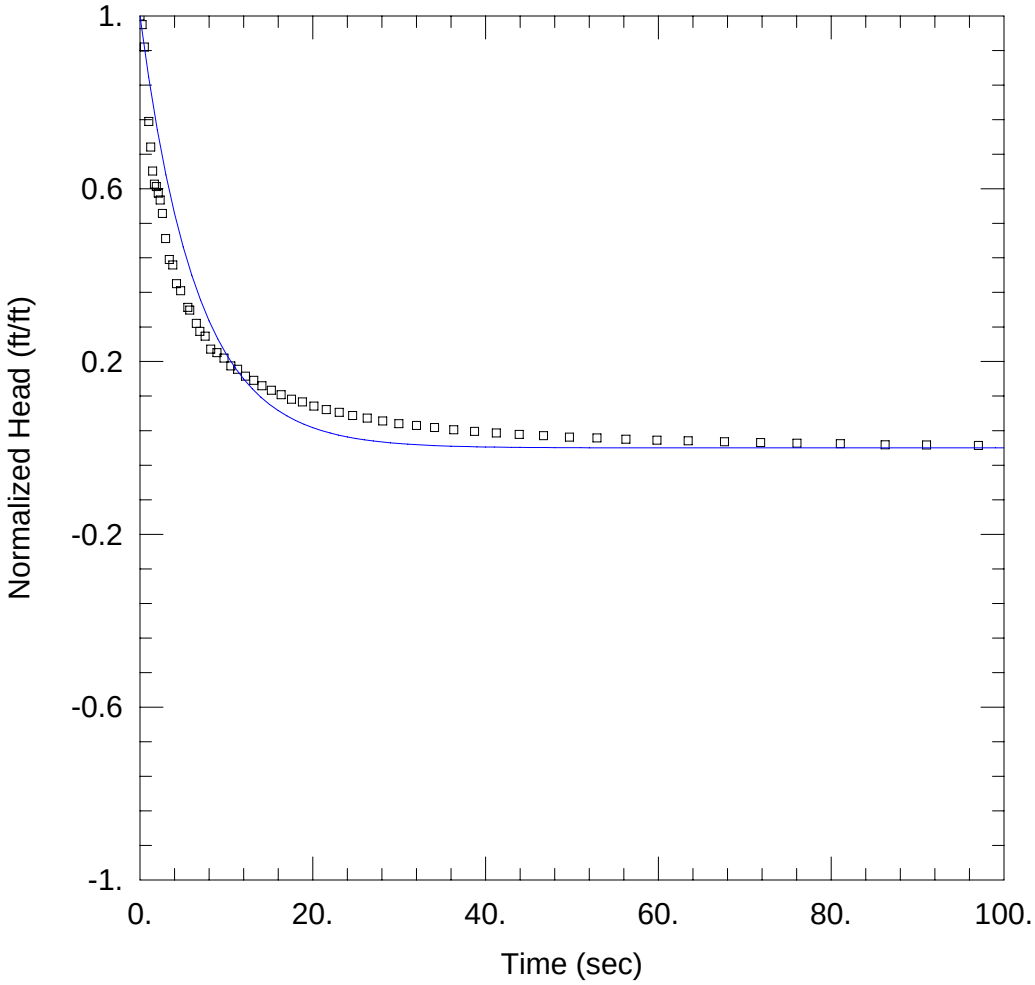
WELL DATA (KAFB106050)

Initial Displacement: 2.125 ft
Total Well Penetration Depth: 30.4 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 34.57 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 86.76 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.001514 ft^{-1}
Kr' = 312.2 ft/day
Kz/Kr' = 1.



KAFB106050P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106050P3-SG.aqt
Date: 08/29/11 Time: 15:25:24

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106050
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 23. ft
Anisotropy Ratio (Kz/Kr): 0.1

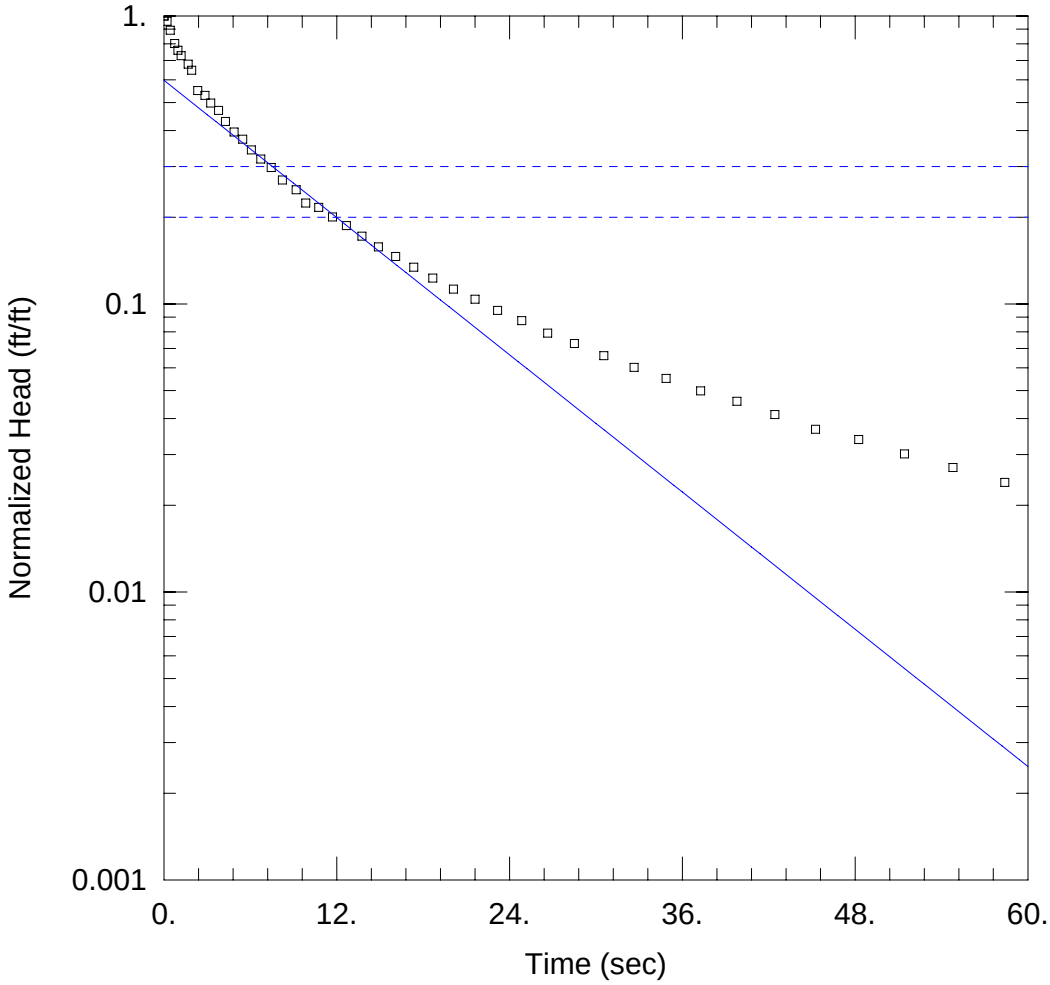
WELL DATA (KAFB106050)

Initial Displacement: 2.125 ft
Total Well Penetration Depth: 30.4 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.57 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 82.35 ft/day
Le = 1. ft



KAFB106050P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106050P4-BR.aqt
Date: 08/29/11 Time: 15:25:59

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106050
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 23. ft
Anisotropy Ratio (Kz/Kr): 0.1

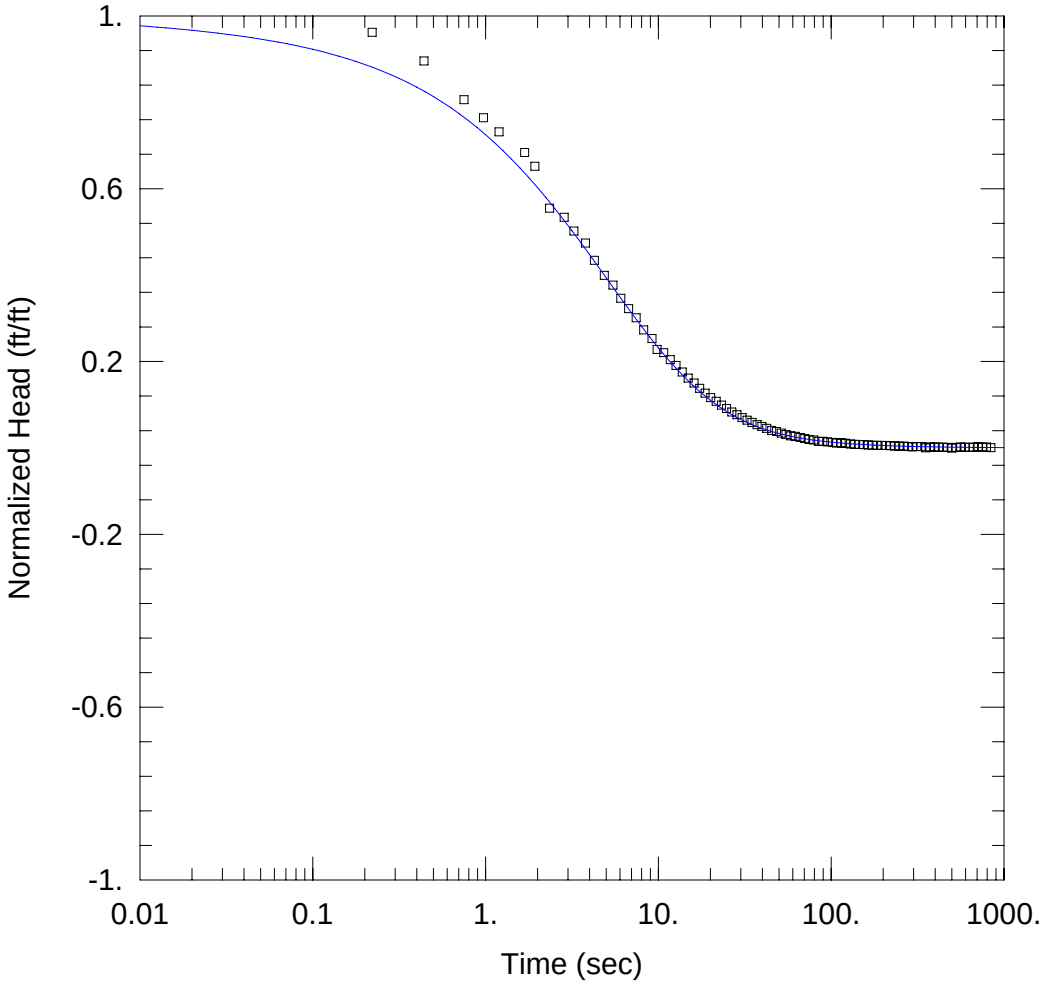
WELL DATA (KAFB106050)

Initial Displacement: 2.503 ft
Total Well Penetration Depth: 30.4 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.57 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 49.21 ft/day
y0 = 1.496 ft



KAFB106050P4

Data Set: C:\...\KAFB106050P4-KGS[1].aqt
Date: 11/03/11 Time: 16:24:30

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106050
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 23. ft

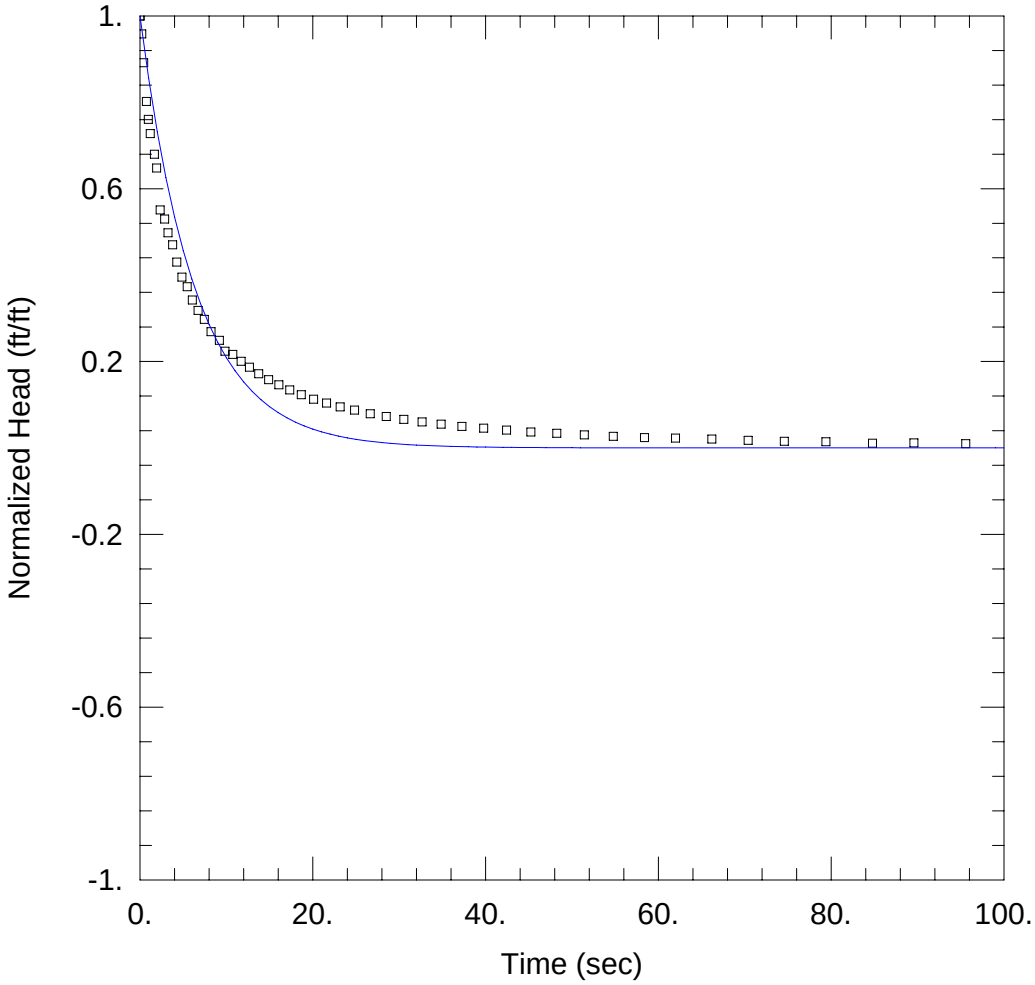
WELL DATA (KAFB106050)

Initial Displacement: 2.503 ft
Total Well Penetration Depth: 30.4 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 34.57 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 79.98 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.001514 ft^{-1}
Kr' = 345. ft/day
Kz/Kr' = 1.



KAFB106050P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106050P4-SG.aqt
Date: 08/29/11 Time: 15:27:33

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106050
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 23. ft
Anisotropy Ratio (Kz/Kr): 0.1

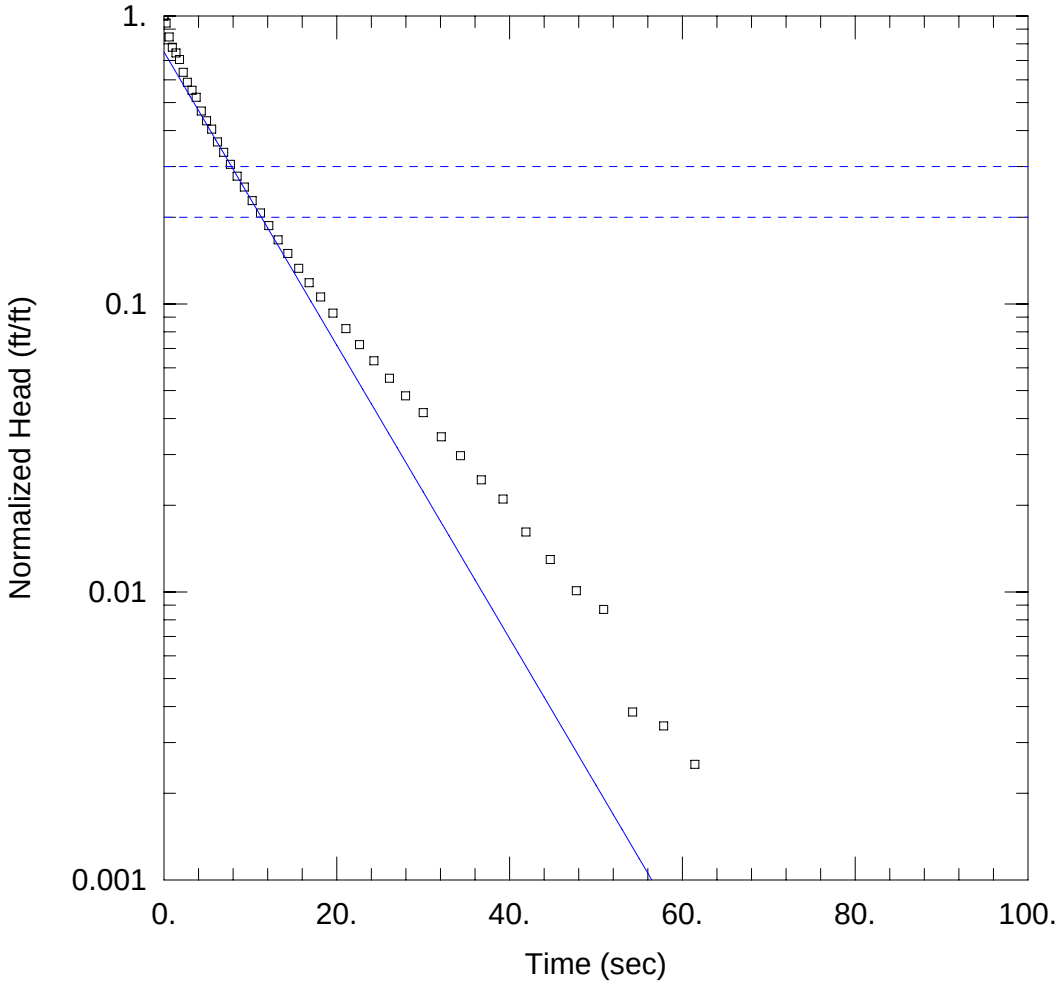
WELL DATA (KAFB106050)

Initial Displacement: 2.503 ft
Total Well Penetration Depth: 30.4 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.57 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 84.29 ft/day
Le = 1. ft



KAFB106053P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106053P1-BR.aqt
Date: 08/25/11 Time: 11:34:47

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106053
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 40. ft
Anisotropy Ratio (Kz/Kr): 0.1

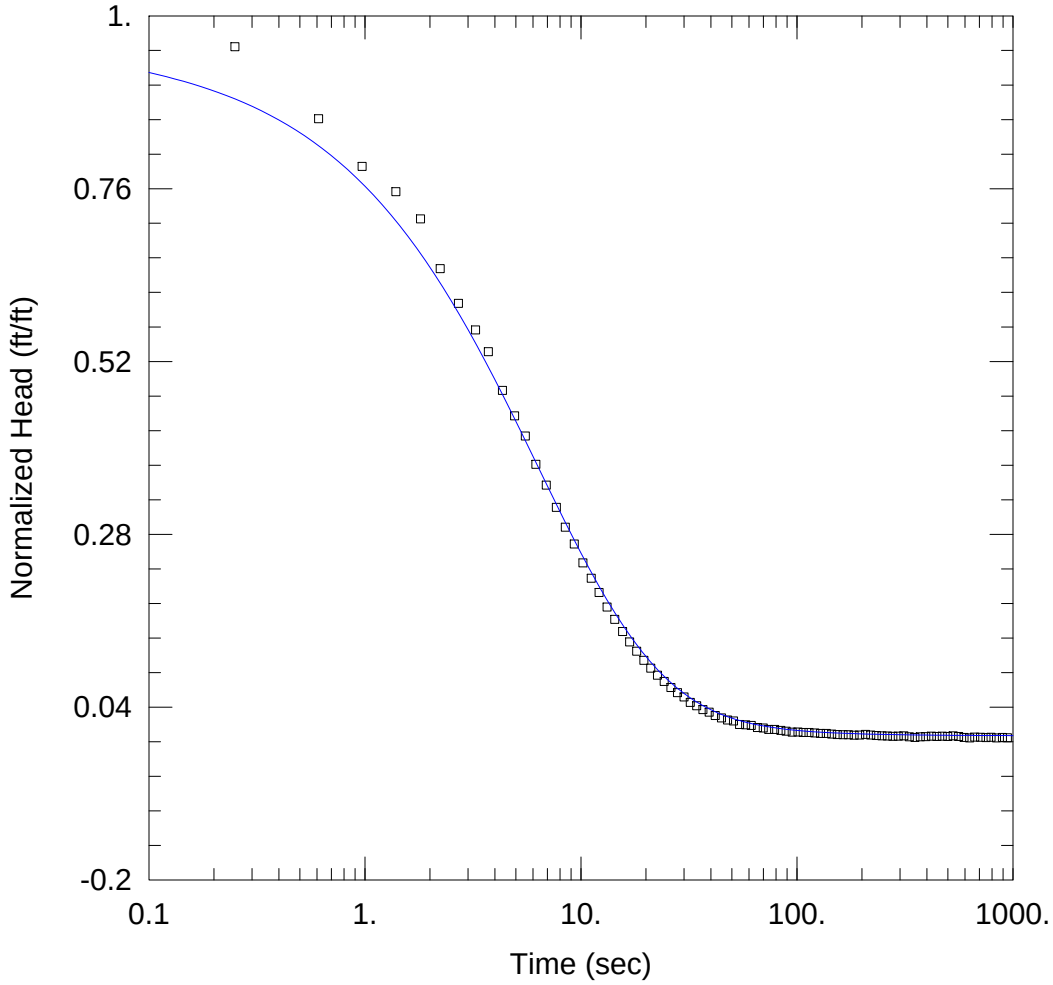
WELL DATA (KAFB106053)

Initial Displacement: 2.48 ft
Total Well Penetration Depth: 30.26 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.43 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 56.82 ft/day
y0 = 1.859 ft



KAFB106053P1

Data Set: C:\...\KAFB106053P1-KGS[1].aqt
Date: 08/27/11 Time: 13:47:39

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106053
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 40. ft

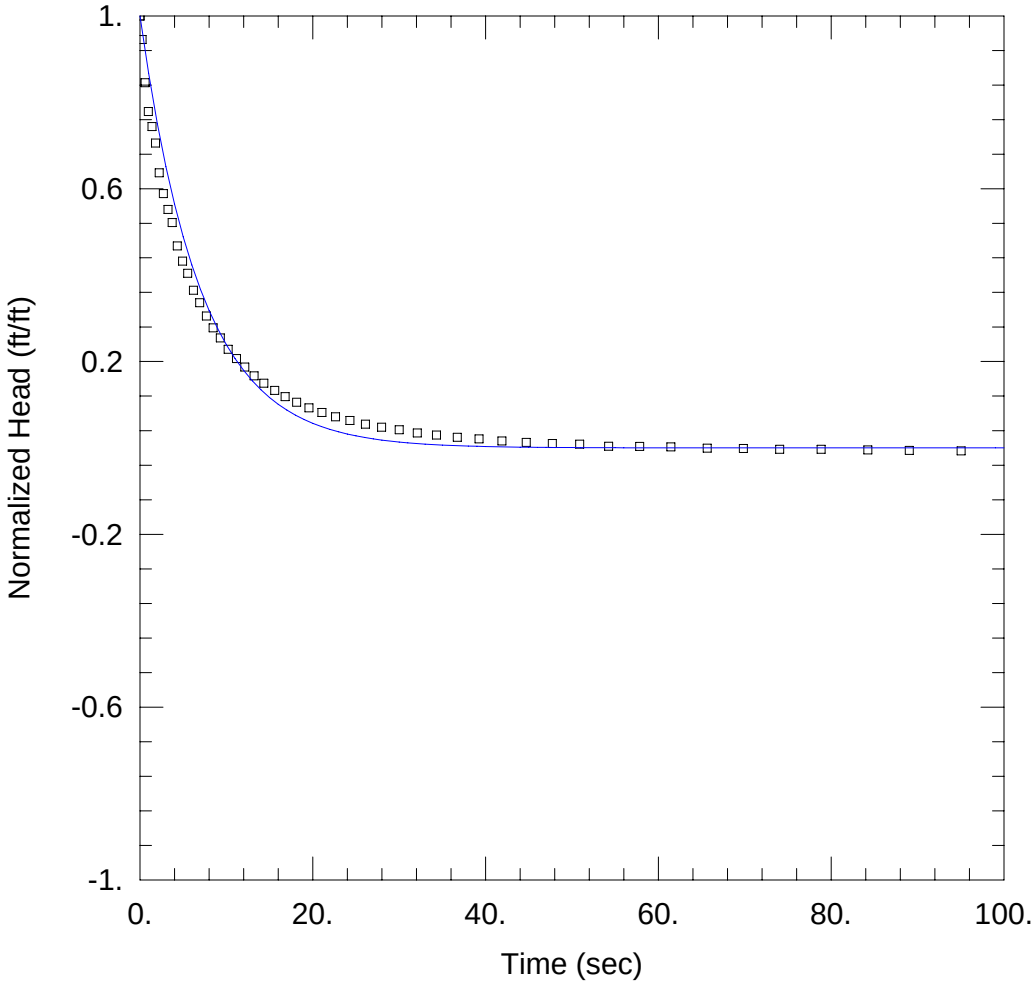
WELL DATA (KAFB106053)

Initial Displacement: 2.48 ft
Total Well Penetration Depth: 30.26 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 34.43 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 50.16 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.0001334 ft^{-1}
Kr' = 167. ft/day
Kz/Kr' = 1.



KAFB106053P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106053P1-SG.aqt
Date: 08/25/11 Time: 11:36:50

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106053
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 40. ft
Anisotropy Ratio (Kz/Kr): 0.1

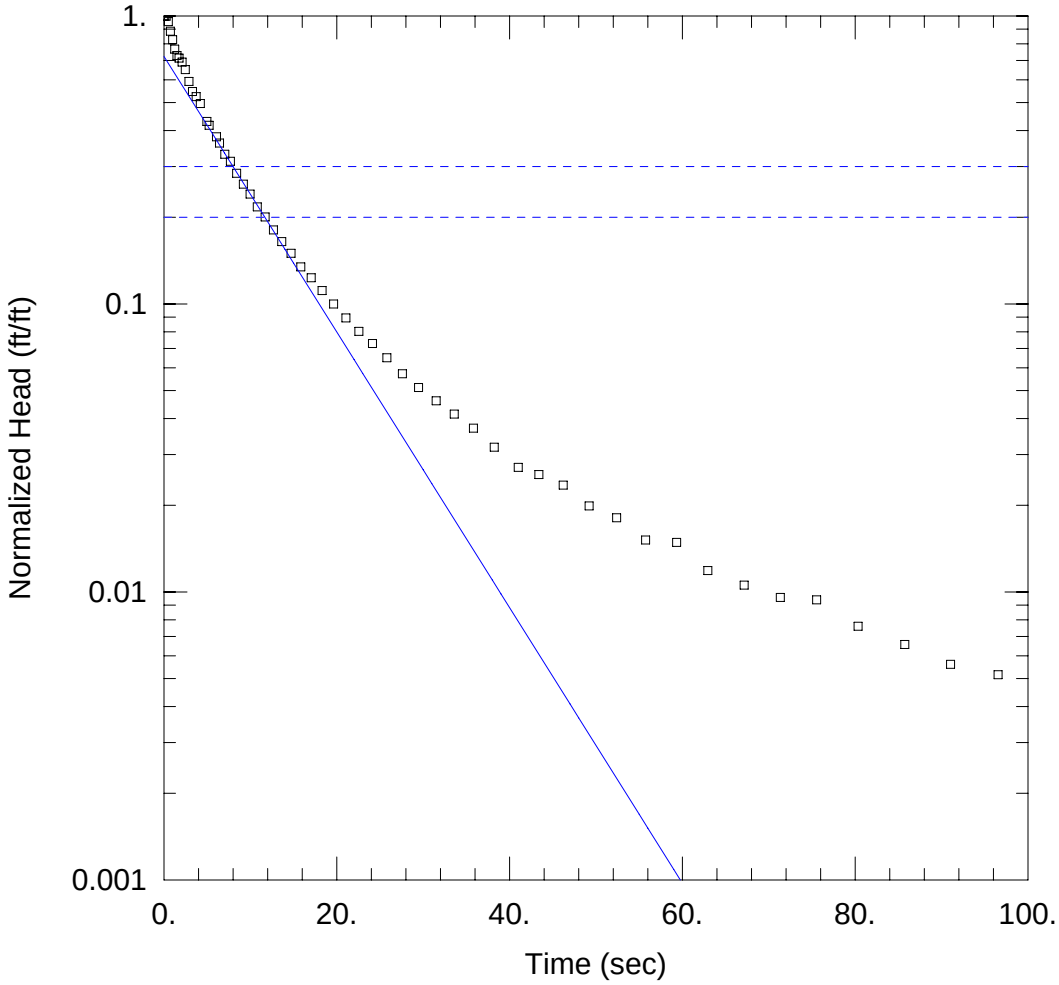
WELL DATA (KAFB106053)

Initial Displacement: 2.48 ft
Total Well Penetration Depth: 30.26 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.43 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 69.42 ft/day
Le = 1. ft



KAFB106053P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106053P2-BR.aqt
Date: 08/25/11 Time: 11:39:18

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106053
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 40. ft
Anisotropy Ratio (Kz/Kr): 0.1

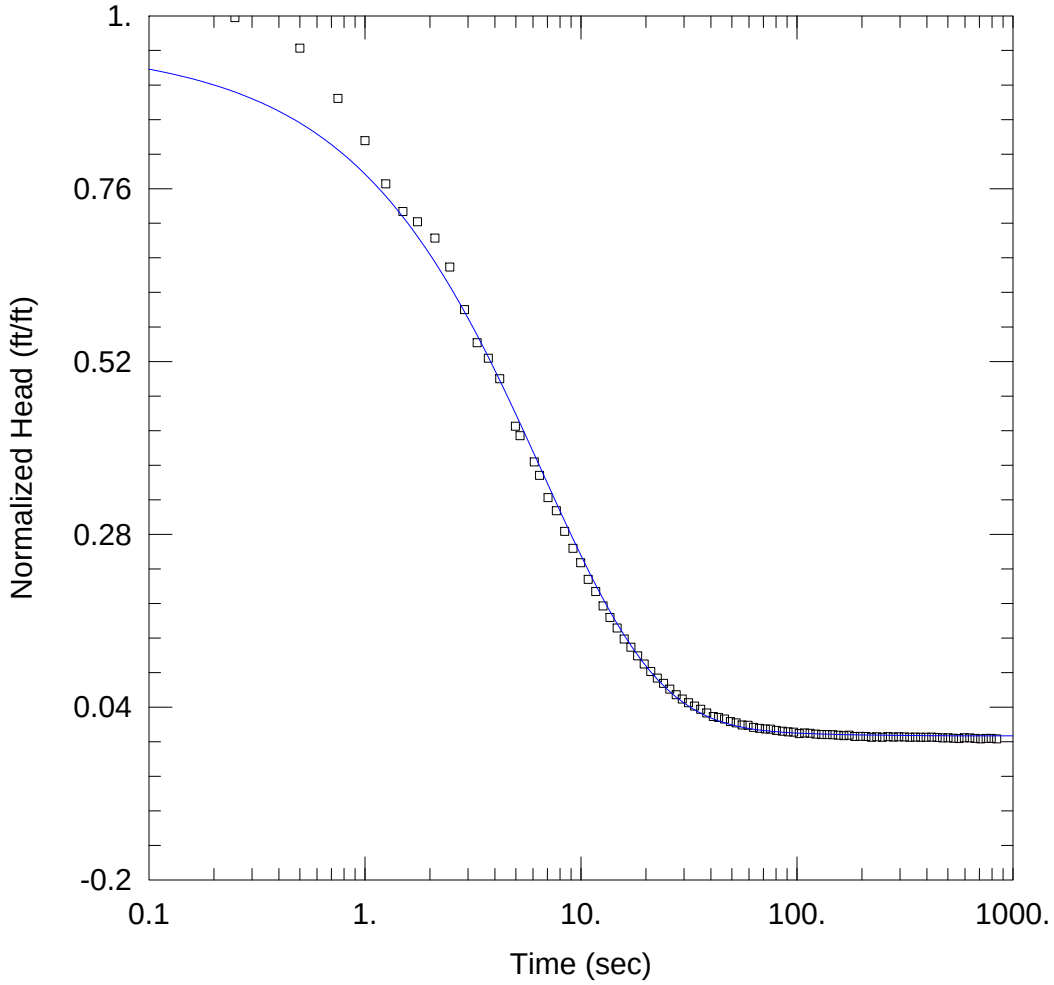
WELL DATA (KAFB106053)

Initial Displacement: 2.417 ft
Total Well Penetration Depth: 30.26 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.43 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 53.39 ft/day
y0 = 1.748 ft



KAFB106053P2

Data Set: C:\...\KAFB106053P2-KGS[1].aqt
Date: 08/27/11 Time: 13:49:23

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106053
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 40. ft

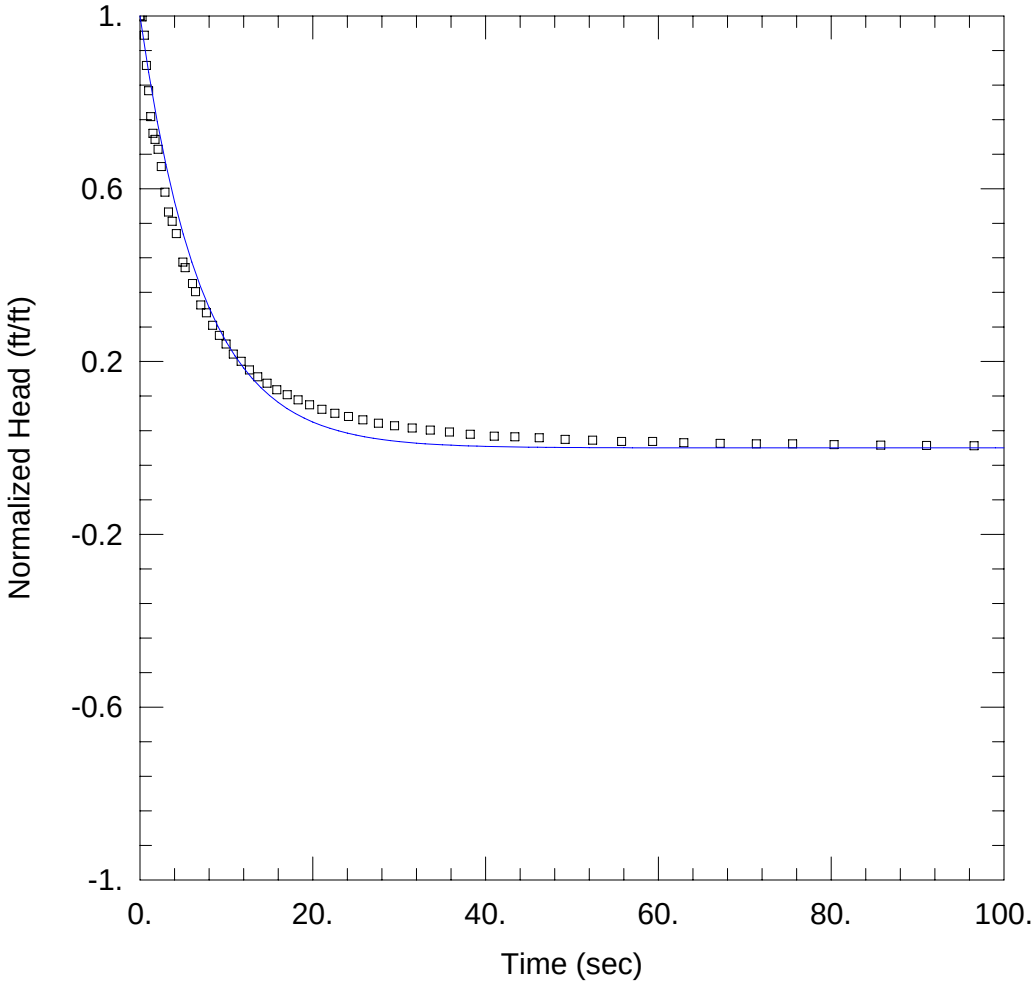
WELL DATA (KAFB106053)

Initial Displacement: 2.417 ft
Total Well Penetration Depth: 30.26 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 34.43 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 59.23 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 3.631E-5 ft^{-1}
Kr' = 189.2 ft/day
Kz/Kr' = 1.



KAFB106053P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106053P2-SG.aqt
Date: 08/25/11 Time: 11:40:06

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106053
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 40. ft
Anisotropy Ratio (Kz/Kr): 0.1

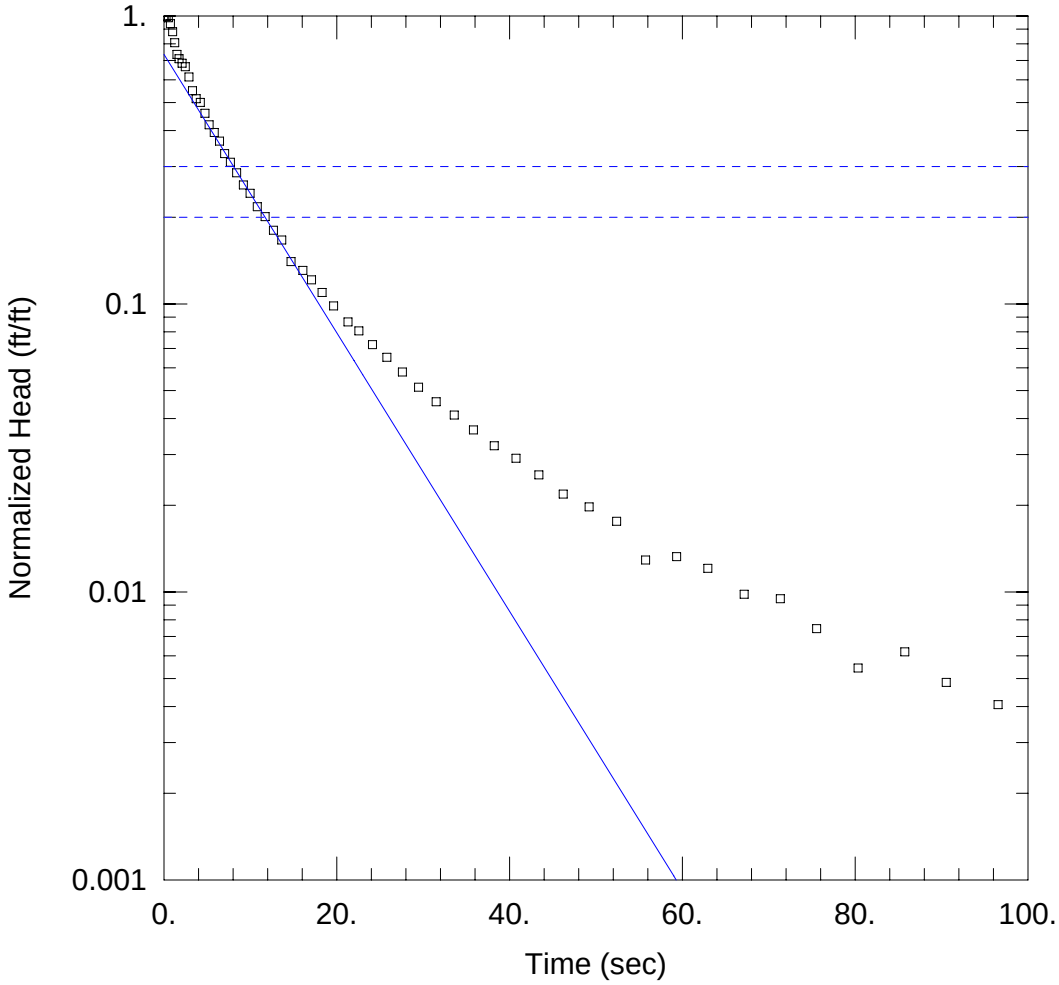
WELL DATA (KAFB106053)

Initial Displacement: 2.417 ft
Total Well Penetration Depth: 30.26 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.43 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 68.18 ft/day
Le = 1. ft



KAFB106053P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106053P3-BR.aqt
Date: 08/25/11 Time: 11:42:22

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106053
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 40. ft
Anisotropy Ratio (Kz/Kr): 0.1

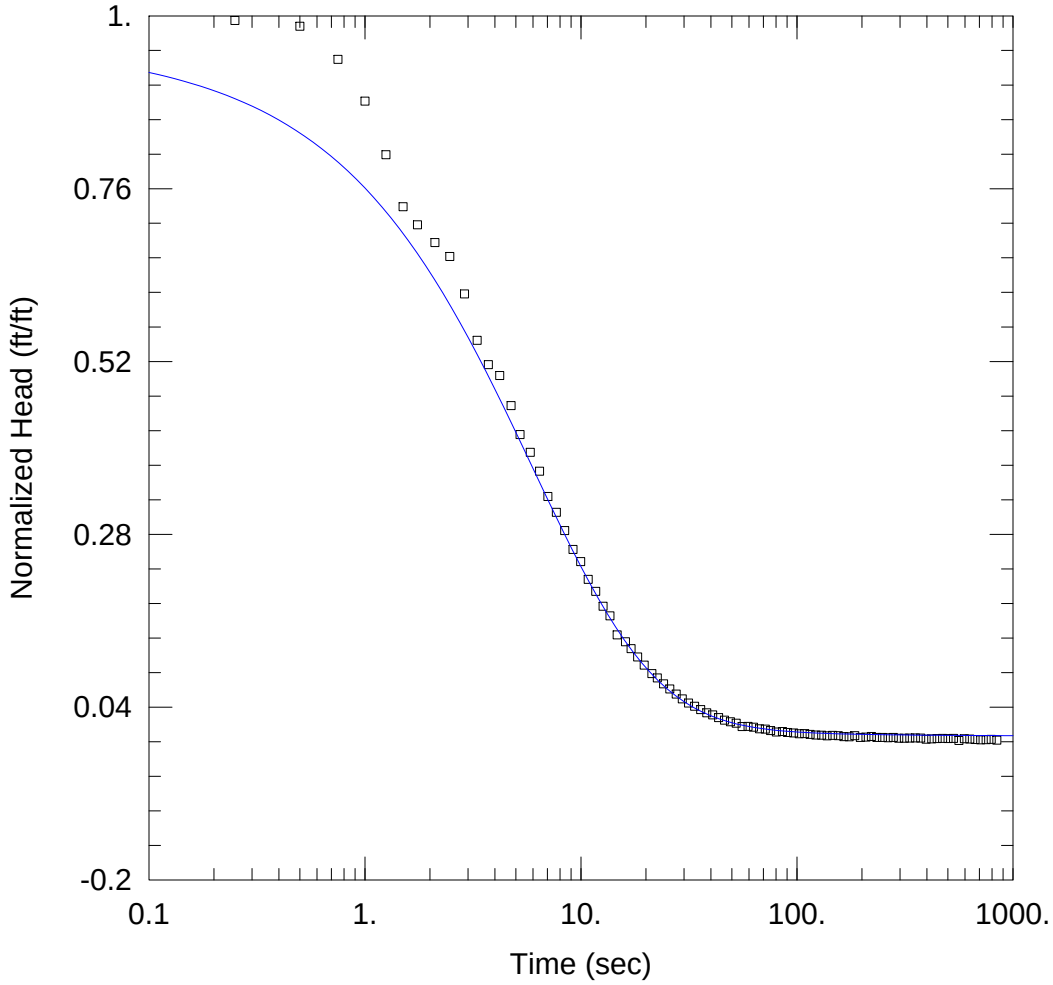
WELL DATA (KAFB106053)

Initial Displacement: 2.107 ft
Total Well Penetration Depth: 30.26 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.43 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 53.94 ft/day
y0 = 1.549 ft



KAFB106053P3

Data Set: C:\...\KAFB106053P3-KGS[1].aqt
Date: 08/27/11 Time: 13:50:30

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106053
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 40. ft

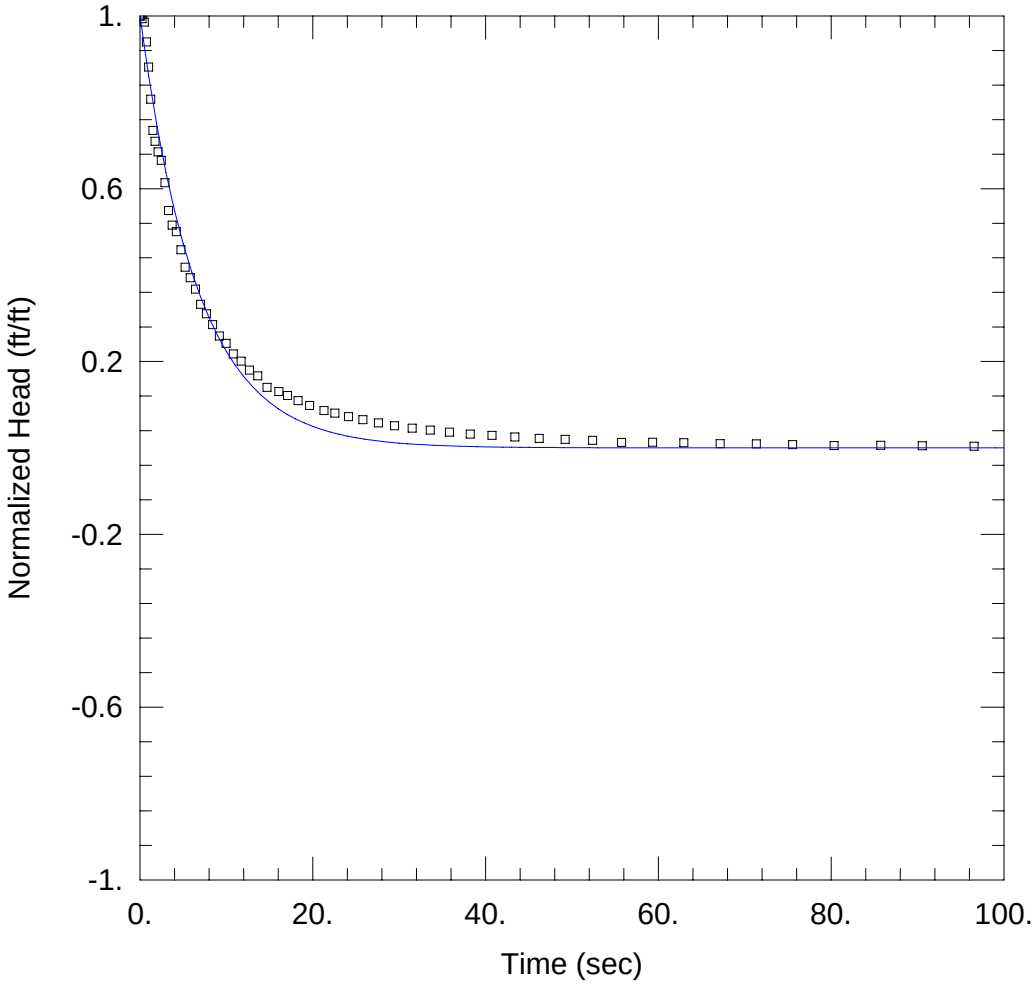
WELL DATA (KAFB106053)

Initial Displacement: 2.107 ft
Total Well Penetration Depth: 30.26 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 34.43 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 57.68 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 8.318E-5 ft^{-1}
Kr' = 184.6 ft/day
Kz/Kr' = 1.



KAFB106053P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106053P3-SG.aqt
Date: 08/25/11 Time: 11:43:07

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106053
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 40. ft
Anisotropy Ratio (Kz/Kr): 0.1

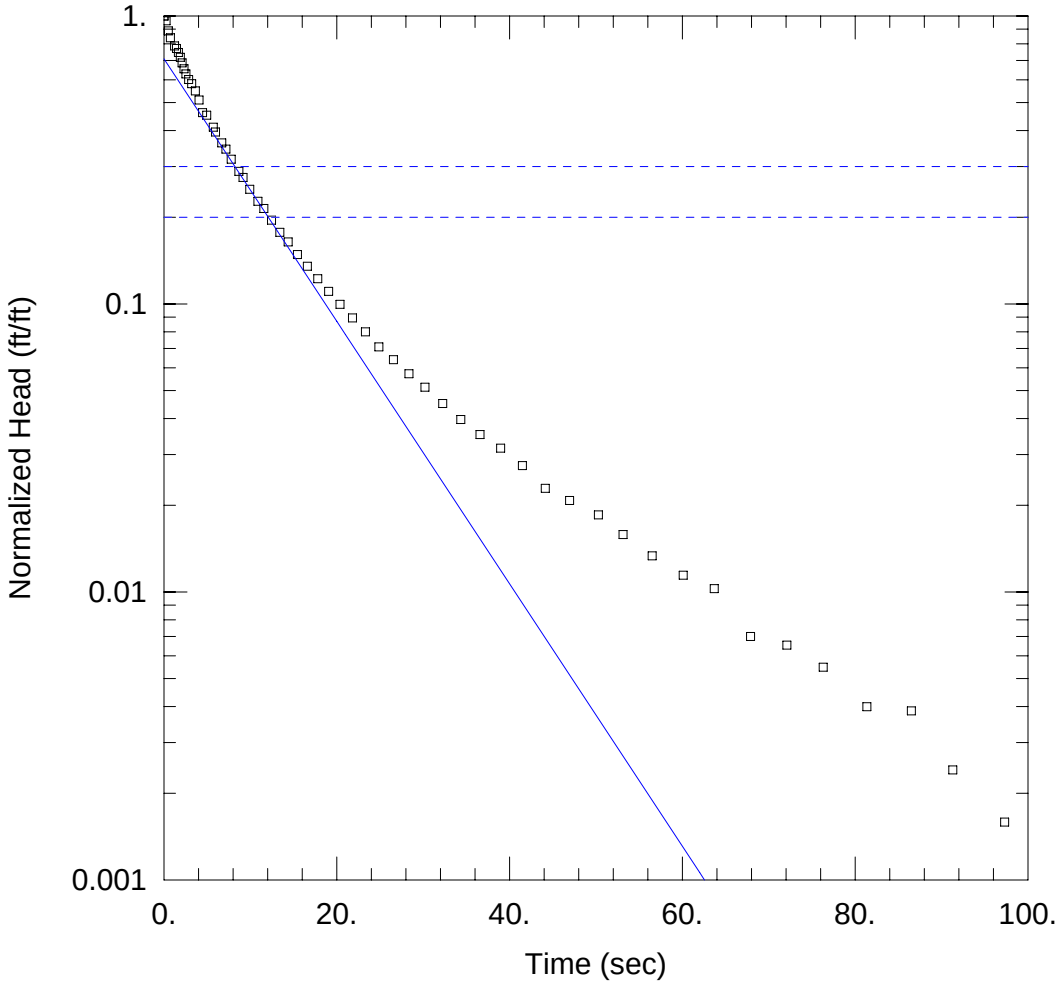
WELL DATA (KAFB106053)

Initial Displacement: 2.107 ft
Total Well Penetration Depth: 30.26 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.43 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 72.69 ft/day
Le = 1. ft



KAFB106053P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106053P4-BR.aqt
Date: 08/25/11 Time: 11:47:20

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106053
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 40. ft
Anisotropy Ratio (Kz/Kr): 0.1

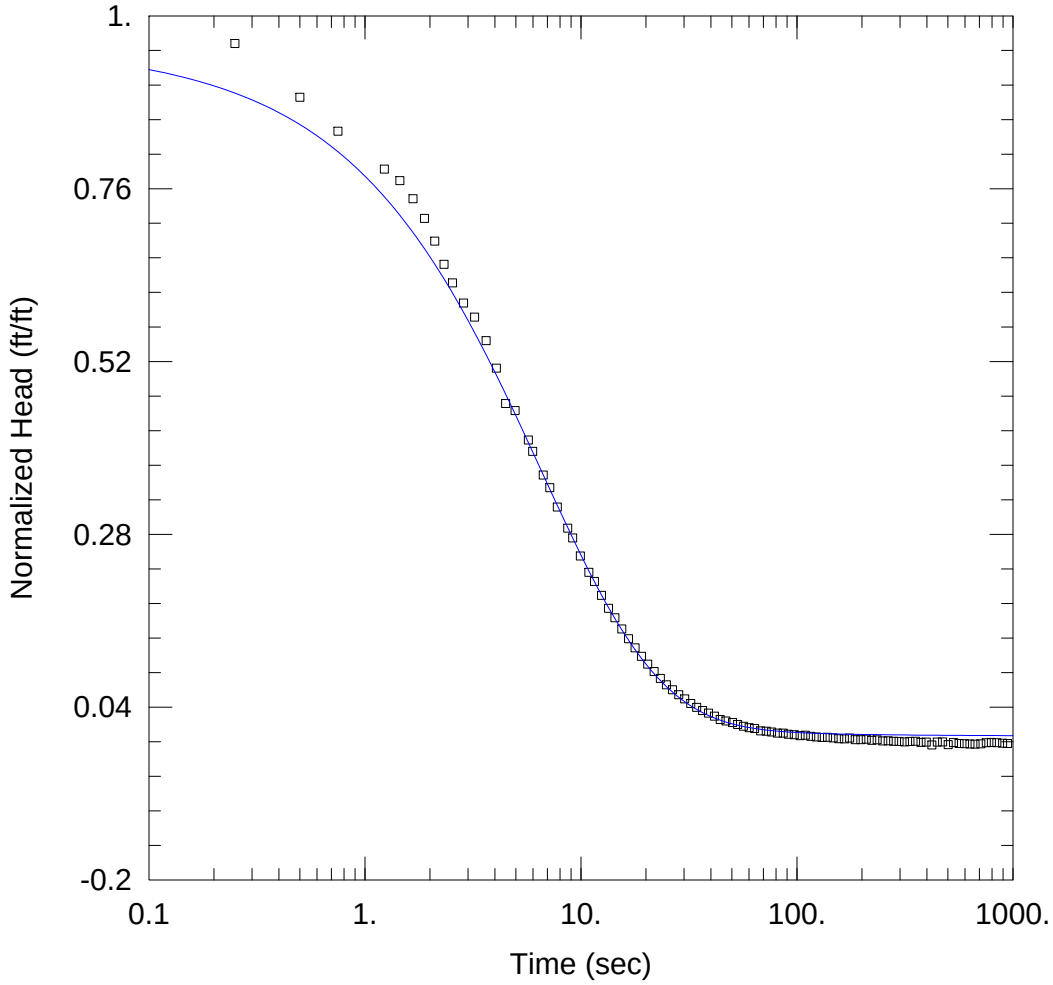
WELL DATA (KAFB106053)

Initial Displacement: 2.518 ft
Total Well Penetration Depth: 30.26 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.43 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 50.84 ft/day
y0 = 1.786 ft



KAFB106053P4

Data Set: C:\...\KAFB106053P4-KGS[1].aqt
Date: 08/27/11 Time: 13:34:47

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106053
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 40. ft

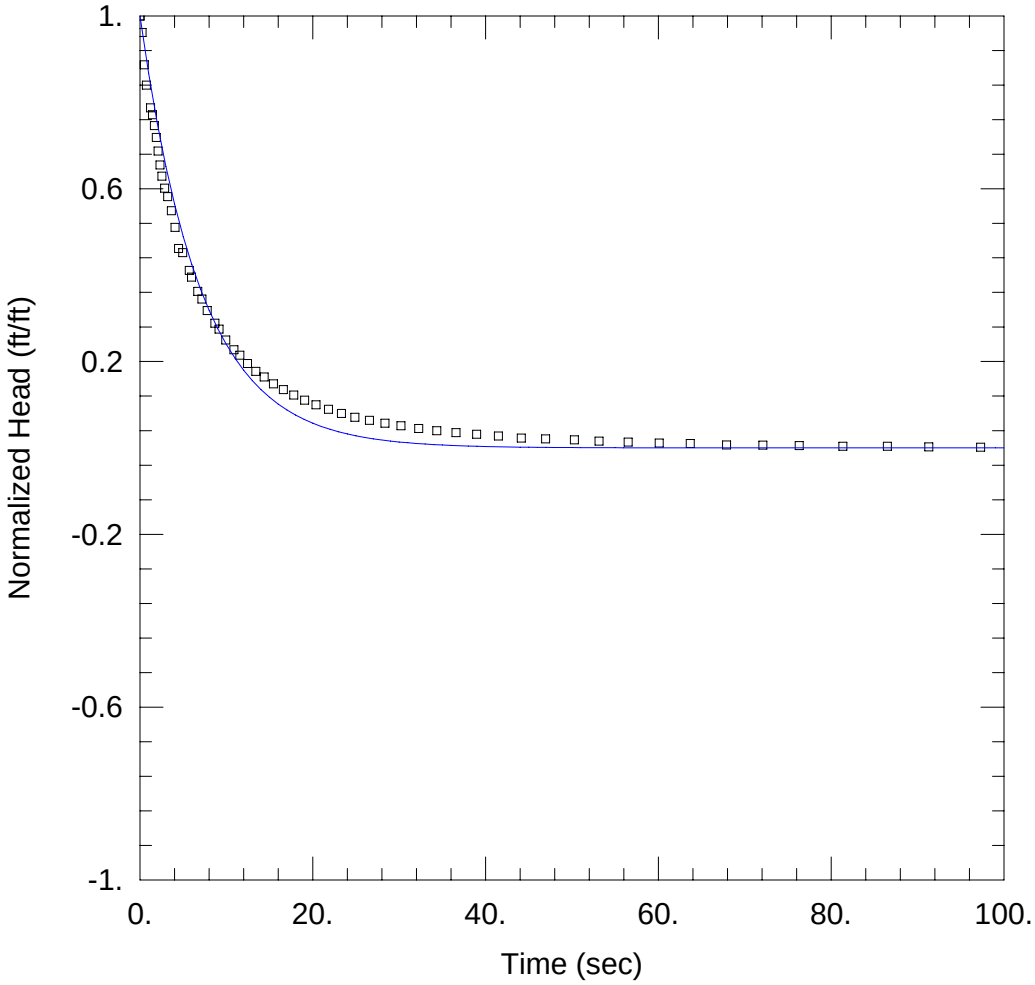
WELL DATA (KAFB106053)

Initial Displacement: 2.518 ft
Total Well Penetration Depth: 30.26 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 34.43 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 57.75 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 4.732E-5 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106053P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106053P4-SG.aqt
Date: 08/25/11 Time: 11:48:12

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106053
Test Date: 8/5/11

AQUIFER DATA

Saturated Thickness: 40. ft
Anisotropy Ratio (Kz/Kr): 0.1

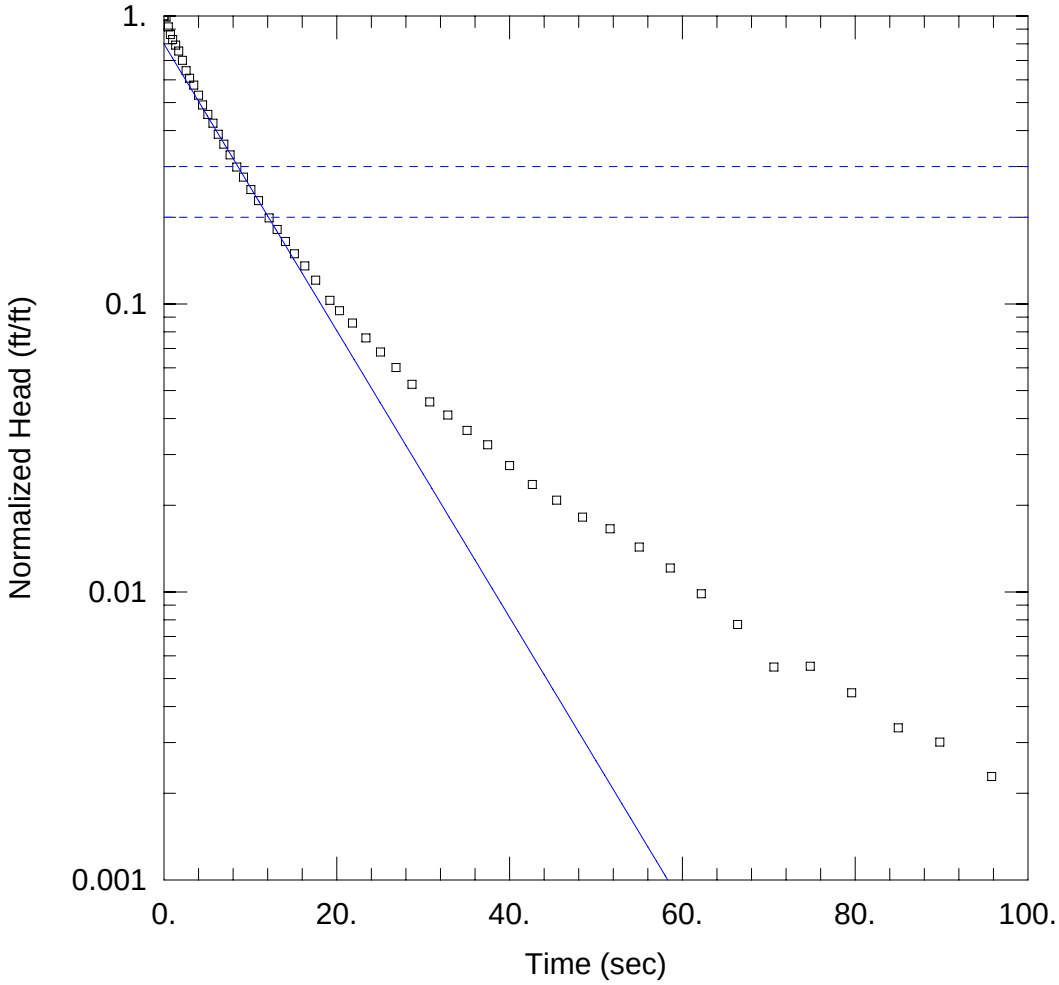
WELL DATA (KAFB106053)

Initial Displacement: 2.518 ft
Total Well Penetration Depth: 30.26 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.43 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 69.31 ft/day
Le = 1. ft



KAFB106057P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106057P1-BR.aqt
Date: 08/25/11 Time: 12:46:11

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106057
Test Date: 8/8/11

AQUIFER DATA

Saturated Thickness: 38. ft
Anisotropy Ratio (Kz/Kr): 0.1

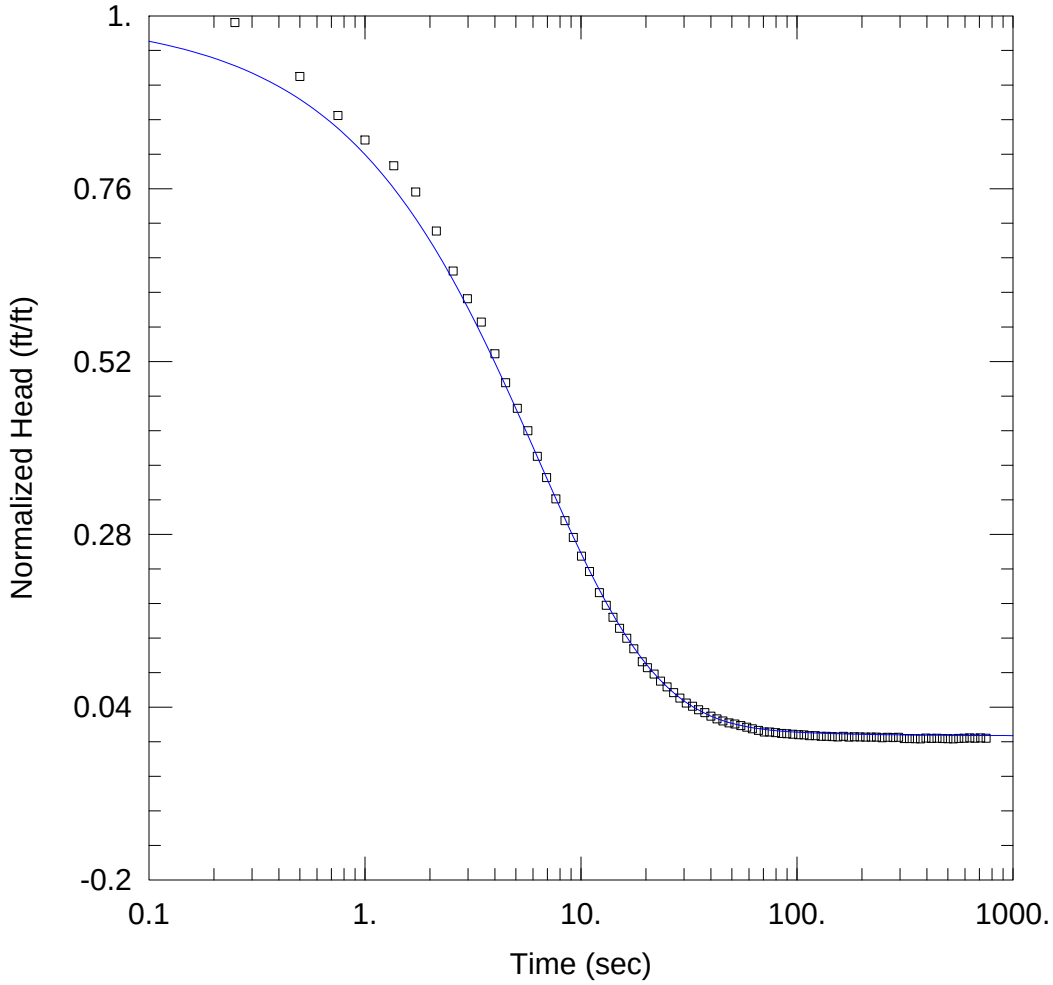
WELL DATA (KAFB106057)

Initial Displacement: 2.516 ft
Total Well Penetration Depth: 29.39 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33.56 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 55.51 ft/day
y0 = 2.012 ft



KAFB106057P1

Data Set: C:\...\KAFB106057P1-KGS[1].aqt
Date: 08/27/11 Time: 13:59:51

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106057
Test Date: 8/8/11

AQUIFER DATA

Saturated Thickness: 38. ft

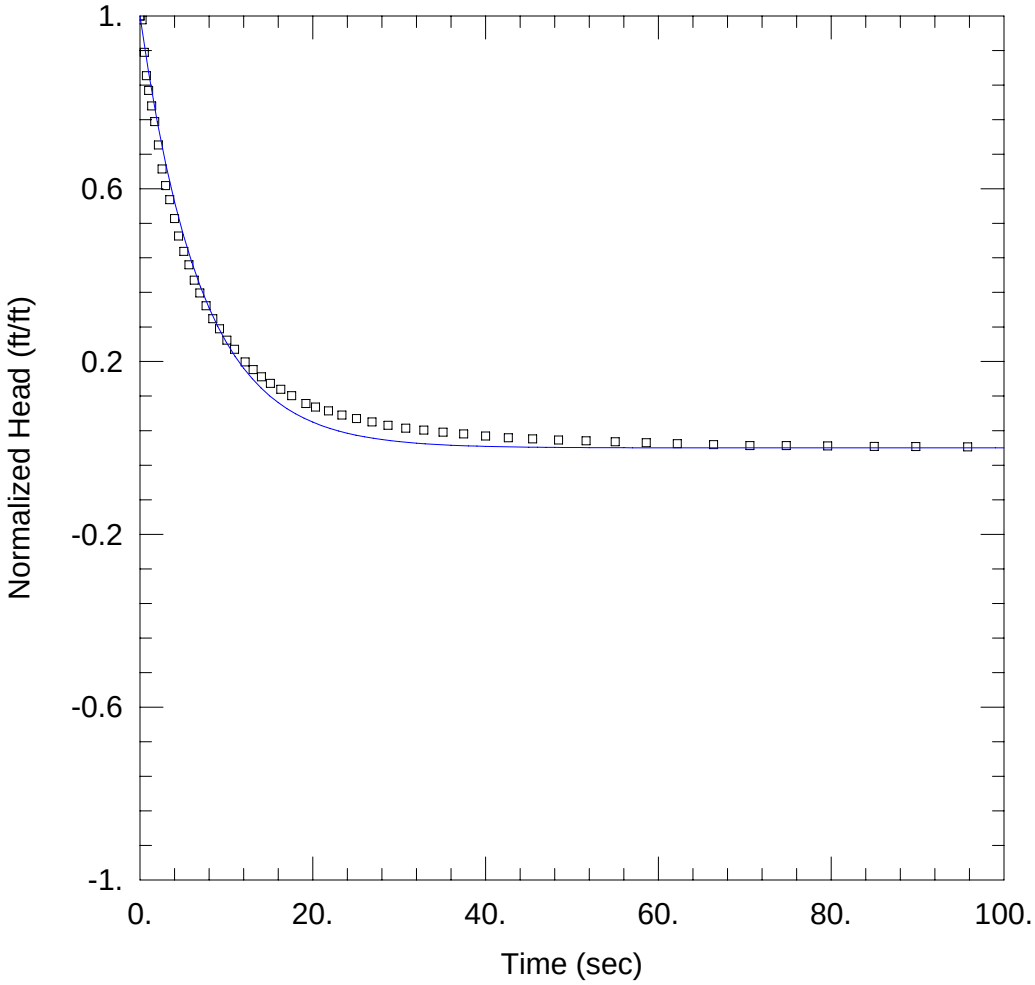
WELL DATA (KAFB106057)

Initial Displacement: 2.516 ft
Total Well Penetration Depth: 29.39 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 33.56 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 55.94 ft/day
Kz/Kr = 0.1
Ss' = 1.0E-5 ft^{-1}
Ss = 5.248E-5 ft^{-1}
Kr' = 182.4 ft/day
Kz/Kr' = 1.



KAFB106057P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106057P1-SG.aqt
Date: 08/25/11 Time: 12:46:48

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106057
Test Date: 8/8/11

AQUIFER DATA

Saturated Thickness: 38. ft
Anisotropy Ratio (Kz/Kr): 0.1

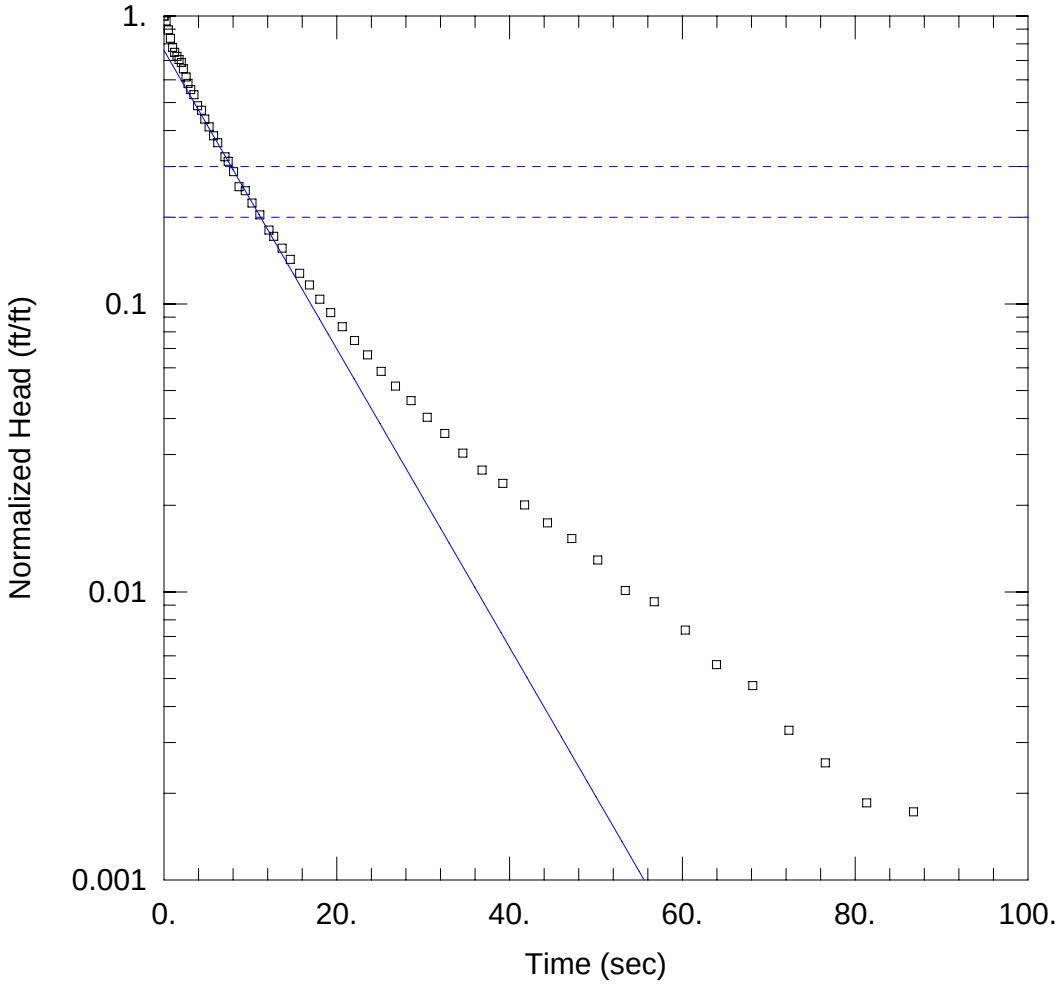
WELL DATA (KAFB106057)

Initial Displacement: 2.516 ft
Total Well Penetration Depth: 29.39 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33.56 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 68.26 ft/day
Le = 1. ft



KAFB106057P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106057P2-BR.aqt
Date: 08/25/11 Time: 12:49:03

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106057
Test Date: 8/8/11

AQUIFER DATA

Saturated Thickness: 38. ft
Anisotropy Ratio (Kz/Kr): 0.1

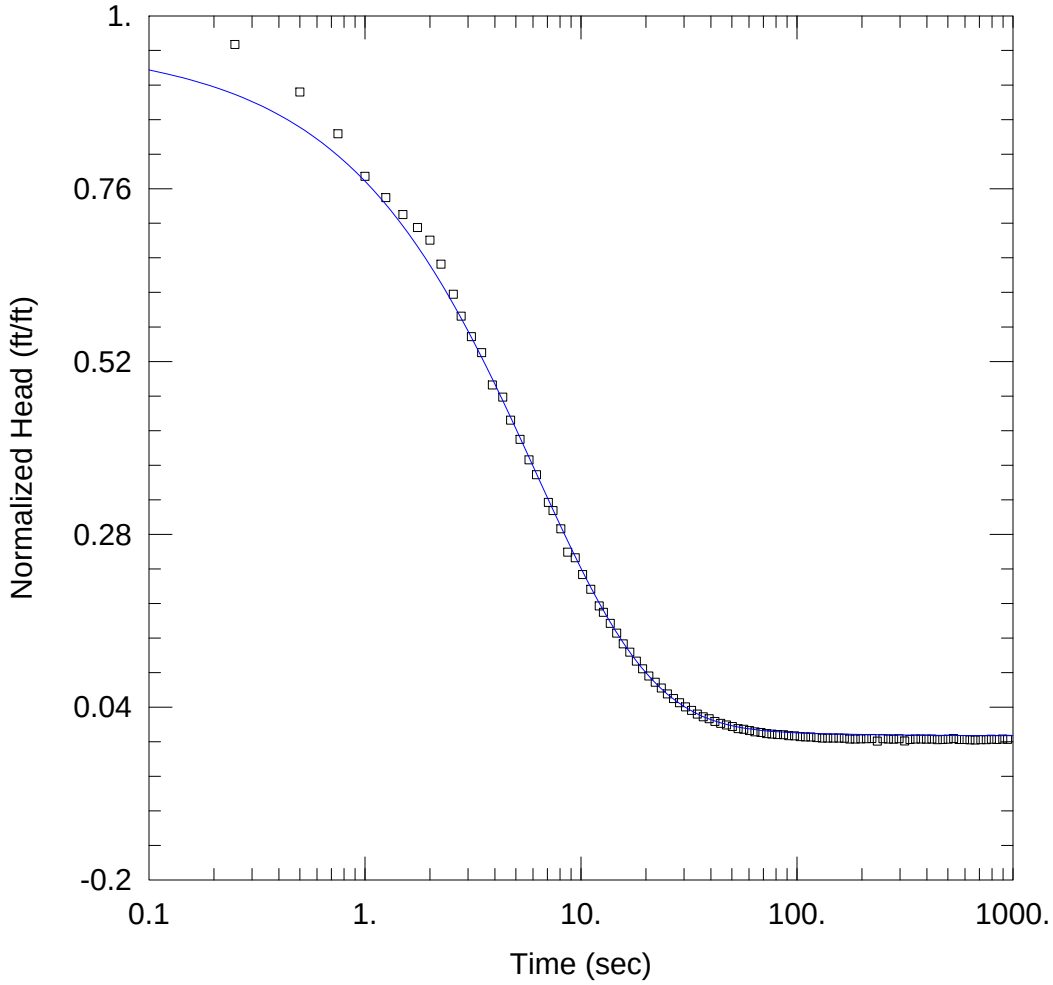
WELL DATA (KAFB106057)

Initial Displacement: 2.519 ft
Total Well Penetration Depth: 29.39 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33.56 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 57.79 ft/day
y0 = 1.912 ft



KAFB106057P2

Data Set: C:\...\KAFB106057P2-KGS[1].aqt
Date: 08/27/11 Time: 14:05:31

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106057
Test Date: 8/8/11

AQUIFER DATA

Saturated Thickness: 38. ft

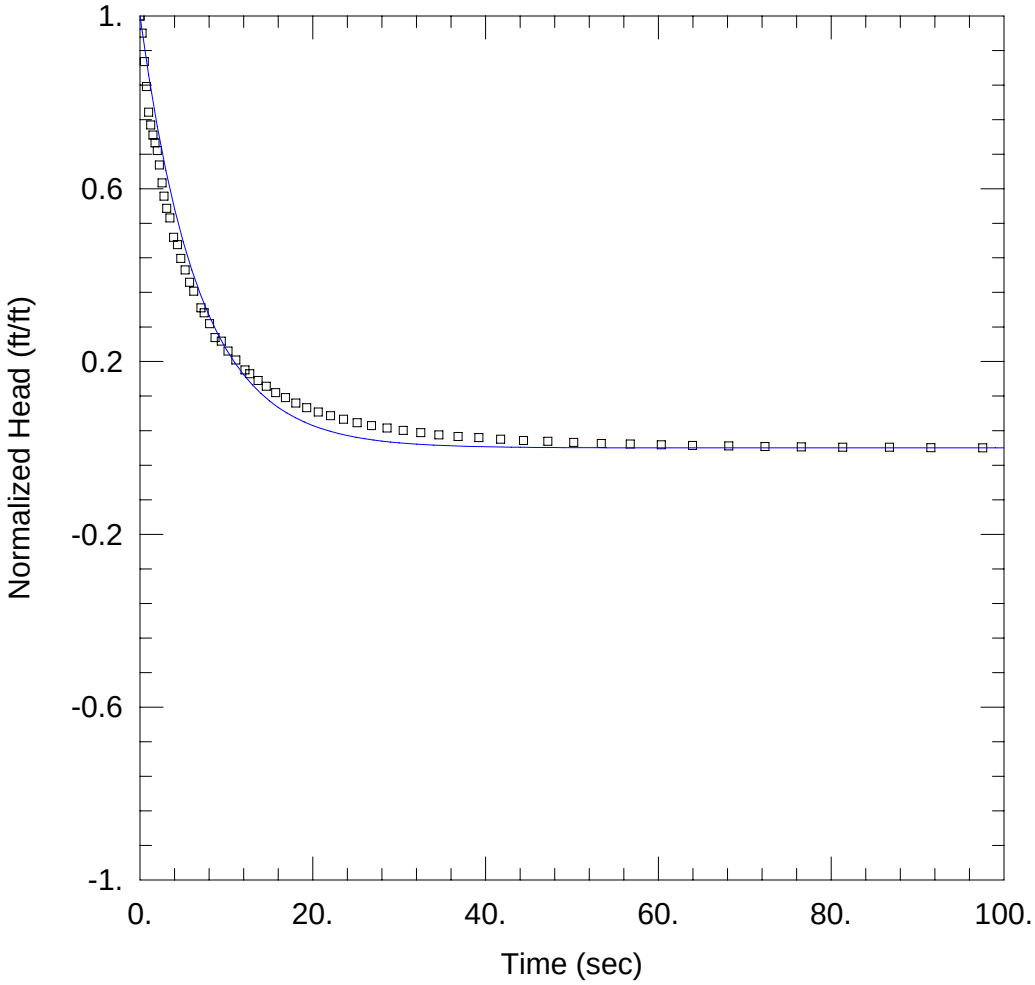
WELL DATA (KAFB106057)

Initial Displacement: 2.519 ft
Total Well Penetration Depth: 29.39 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 33.56 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 63.04 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 4.266E-5 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106057P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106057P2-SG.aqt
Date: 08/25/11 Time: 12:49:54

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106057
Test Date: 8/8/11

AQUIFER DATA

Saturated Thickness: 38. ft
Anisotropy Ratio (Kz/Kr): 0.1

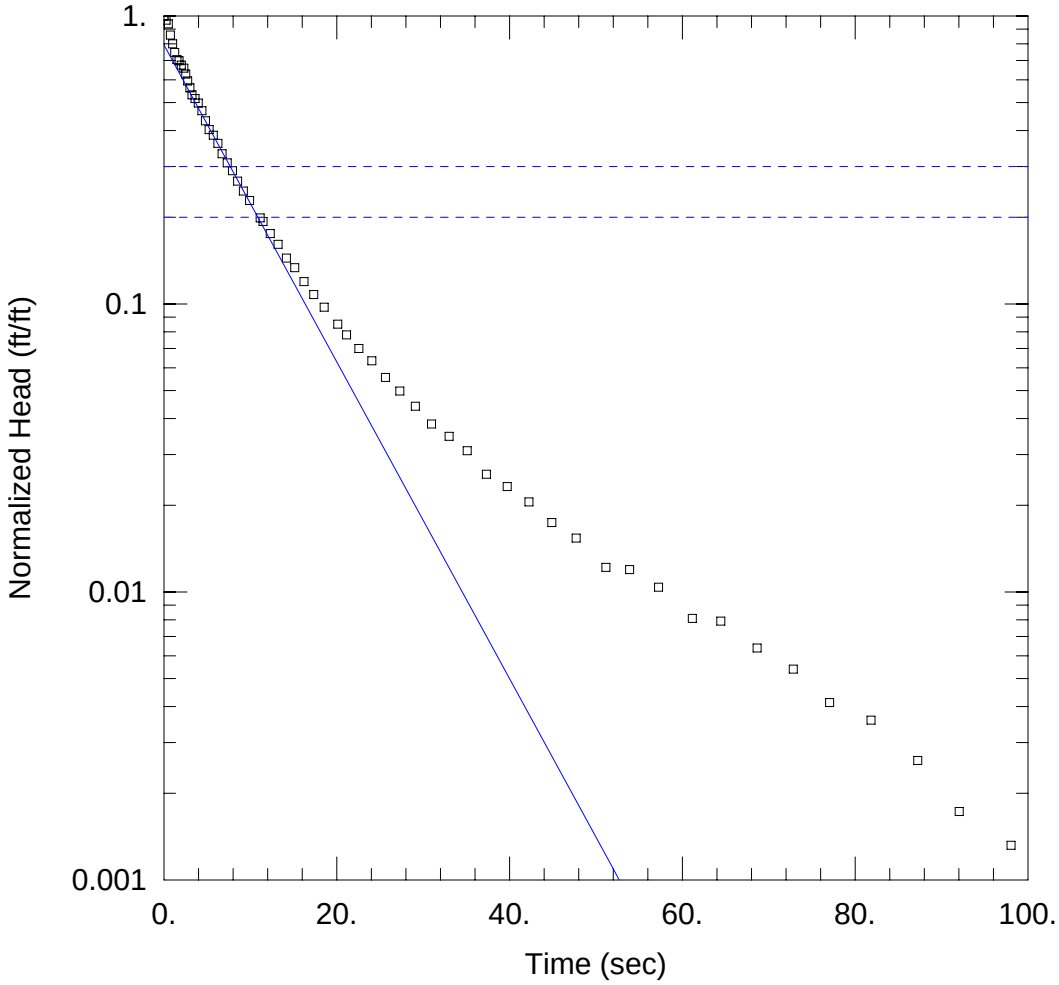
WELL DATA (KAFB106057)

Initial Displacement: 2.519 ft
Total Well Penetration Depth: 29.39 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33.56 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 71.66 ft/day
Le = 1. ft



KAFB106057P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106057P3-BR.aqt
Date: 08/25/11 Time: 12:51:43

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106057
Test Date: 8/8/11

AQUIFER DATA

Saturated Thickness: 38. ft
Anisotropy Ratio (Kz/Kr): 0.1

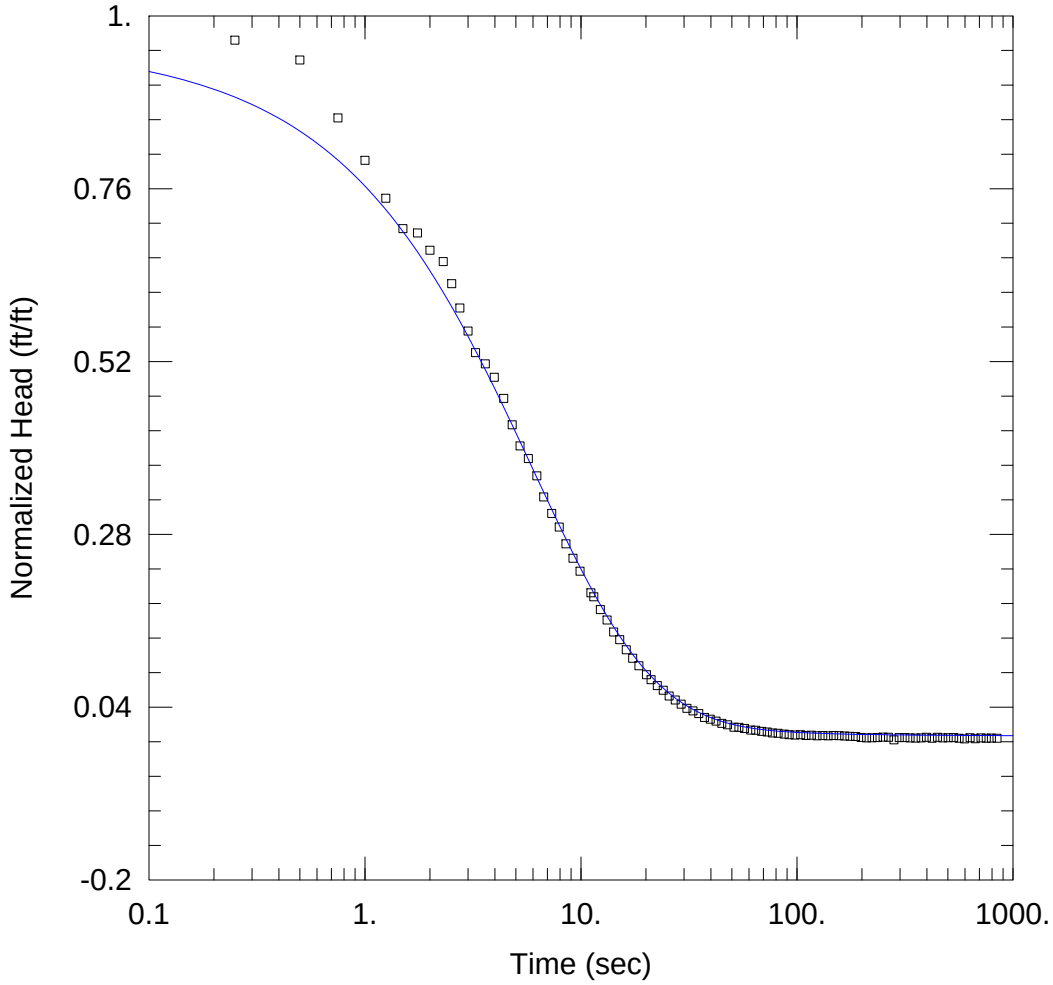
WELL DATA (KAFB106057)

Initial Displacement: 2.284 ft
Total Well Penetration Depth: 29.39 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33.56 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 61.34 ft/day
y0 = 1.81 ft



KAFB106057P3

Data Set: C:\...\KAFB106057P3-KGS[1].aqt
Date: 08/27/11 Time: 13:56:35

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106057
Test Date: 8/8/11

AQUIFER DATA

Saturated Thickness: 38. ft

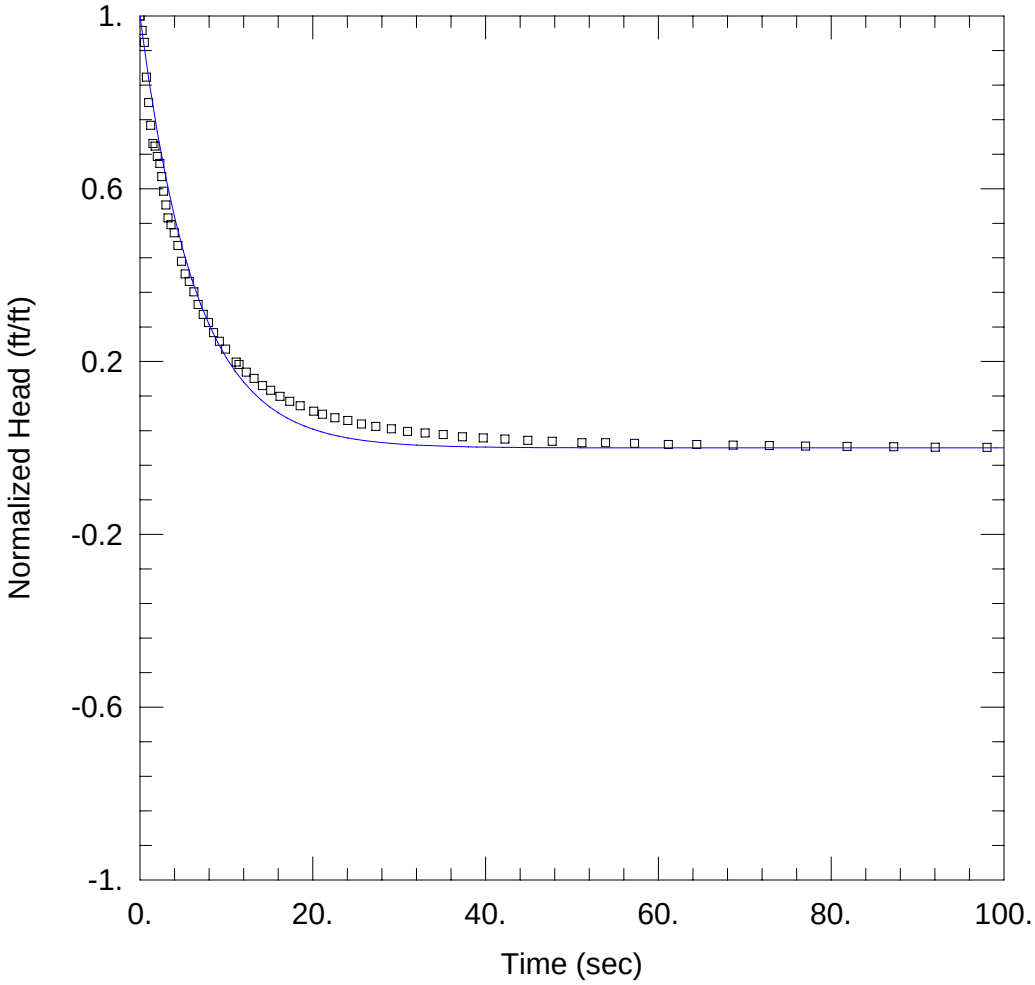
WELL DATA (KAFB106057)

Initial Displacement: 2.284 ft
Total Well Penetration Depth: 29.39 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 33.56 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 60.52 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 6.457E-5 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106057P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106057P3-SG.aqt
Date: 08/25/11 Time: 12:52:28

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106057
Test Date: 8/8/11

AQUIFER DATA

Saturated Thickness: 38. ft
Anisotropy Ratio (Kz/Kr): 0.1

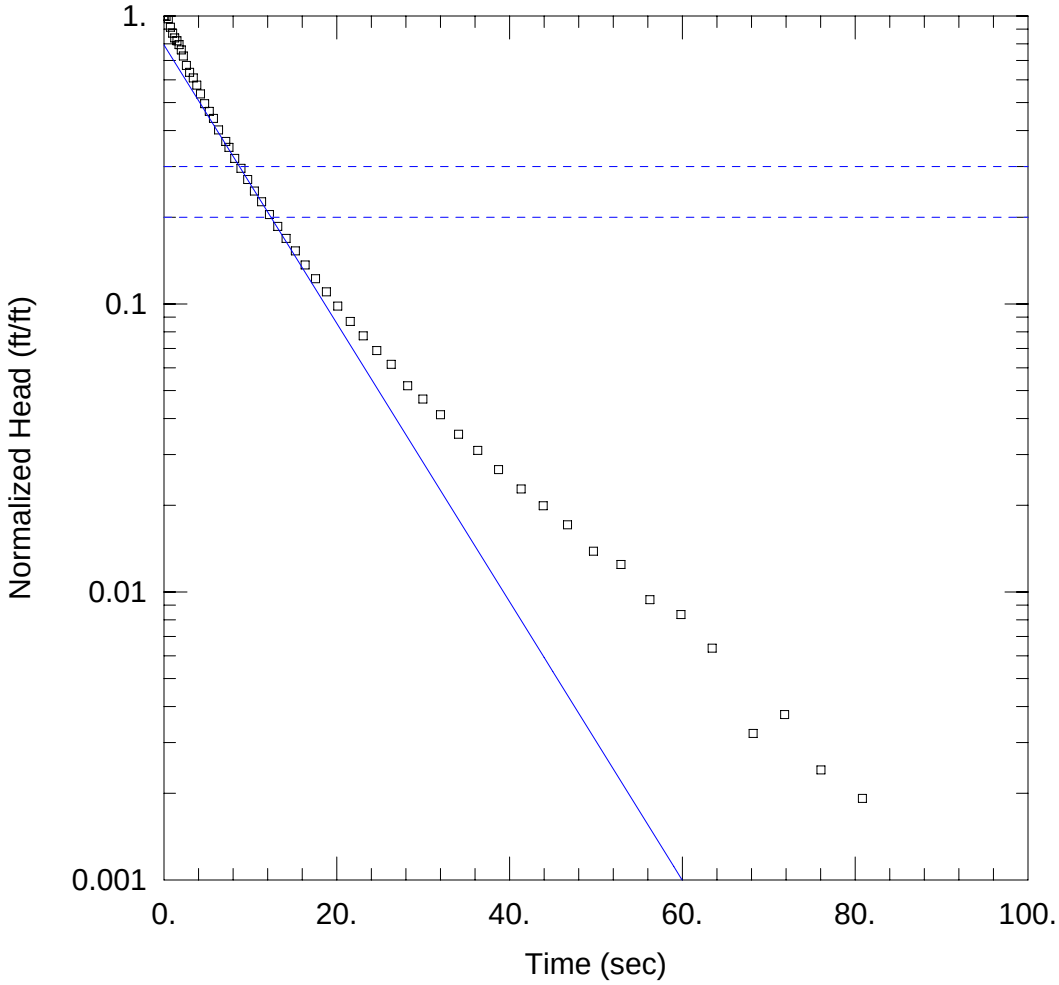
WELL DATA (KAFB106057)

Initial Displacement: 2.284 ft
Total Well Penetration Depth: 29.39 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33.56 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 75.96 ft/day
Le = 1. ft



KAFB106057P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106057P4-BR.aqt
Date: 08/25/11 Time: 12:54:42

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106057
Test Date: 8/8/11

AQUIFER DATA

Saturated Thickness: 38. ft
Anisotropy Ratio (Kz/Kr): 0.1

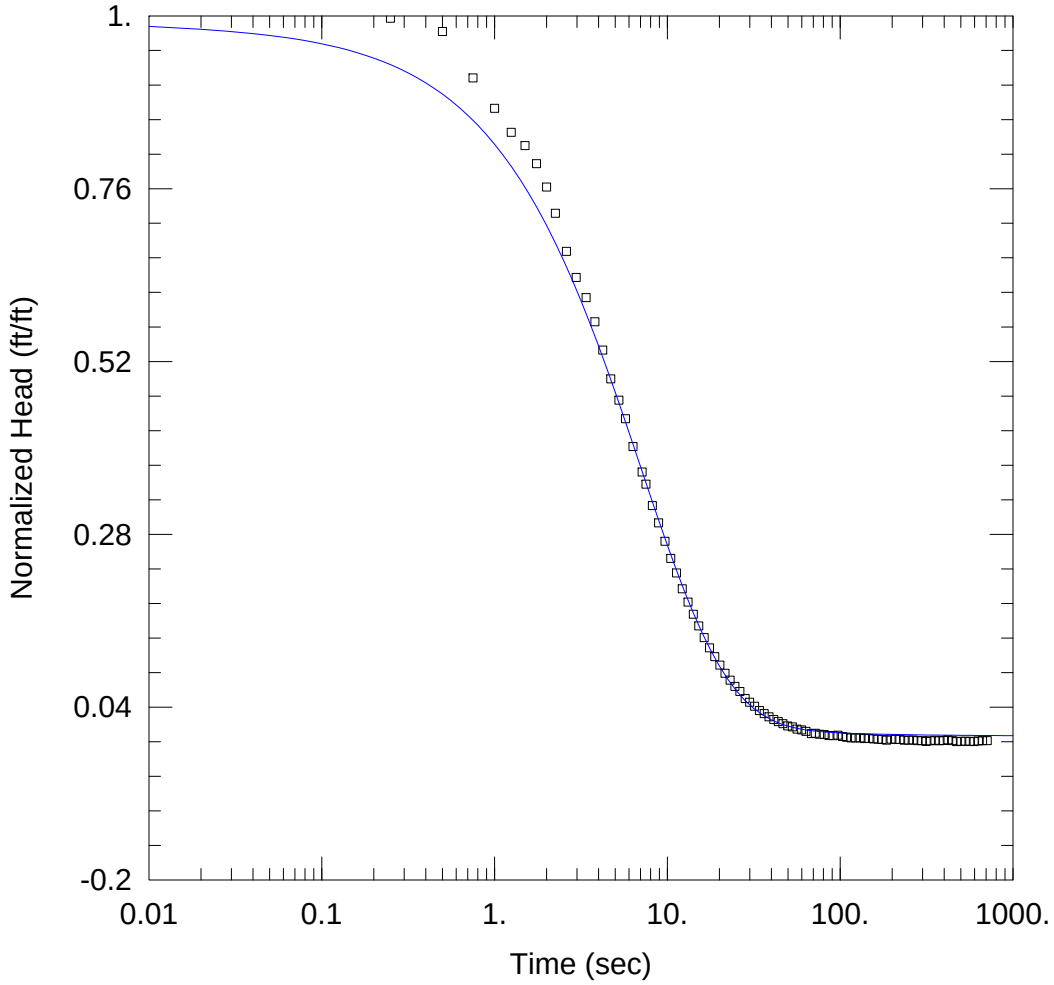
WELL DATA (KAFB106057)

Initial Displacement: 2.535 ft
Total Well Penetration Depth: 29.39 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33.56 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 53.91 ft/day
y0 = 2.01 ft



KAFB106057P4

Data Set: C:\...\KAFB106057P4-KGS[1].aqt
Date: 08/27/11 Time: 14:09:24

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106057
Test Date: 8/8/11

AQUIFER DATA

Saturated Thickness: 38. ft

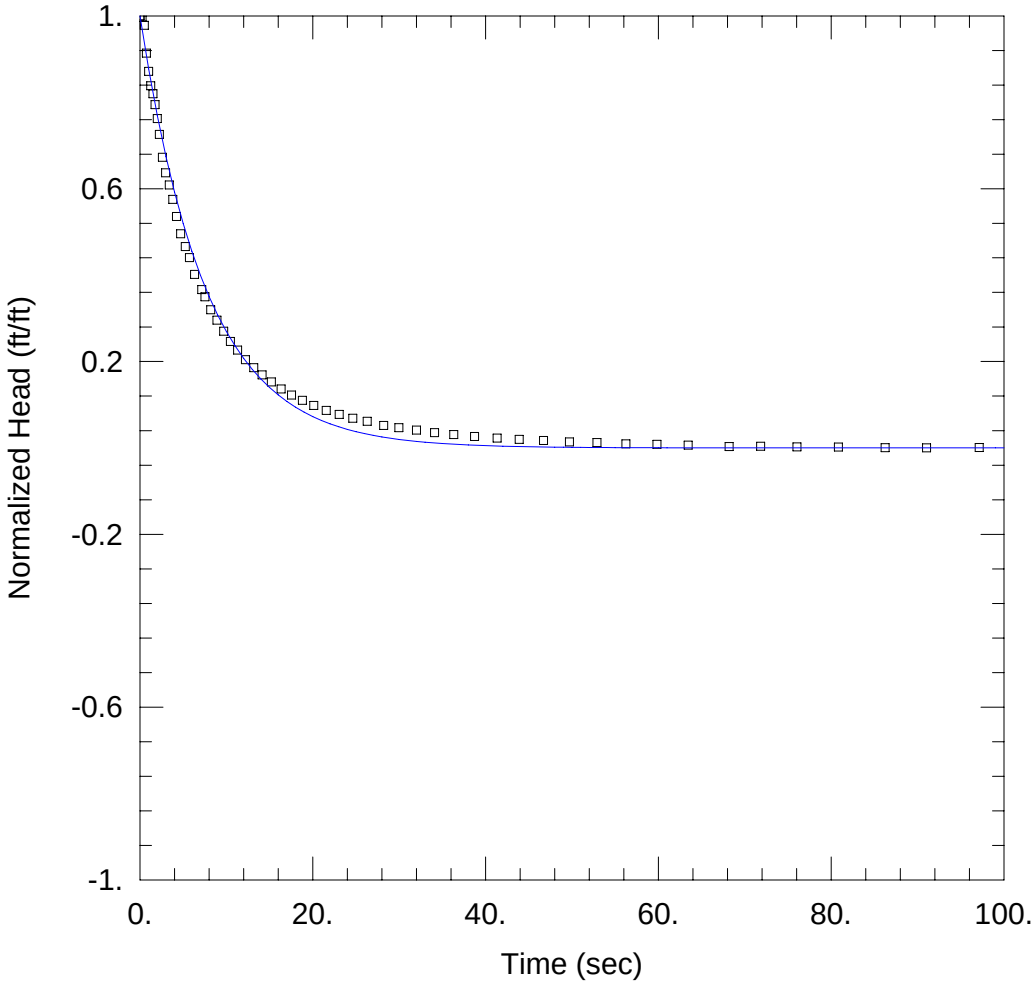
WELL DATA (KAFB106057)

Initial Displacement: 2.535 ft
Total Well Penetration Depth: 29.39 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 33.56 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 60.16 ft/day
Kz/Kr = 0.1
Ss' = 0.0002512 ft^{-1}
Ss = 1.585E-5 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106057P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106057P4-SG.aqt
Date: 08/25/11 Time: 12:55:16

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106057
Test Date: 8/8/11

AQUIFER DATA

Saturated Thickness: 38. ft
Anisotropy Ratio (Kz/Kr): 0.1

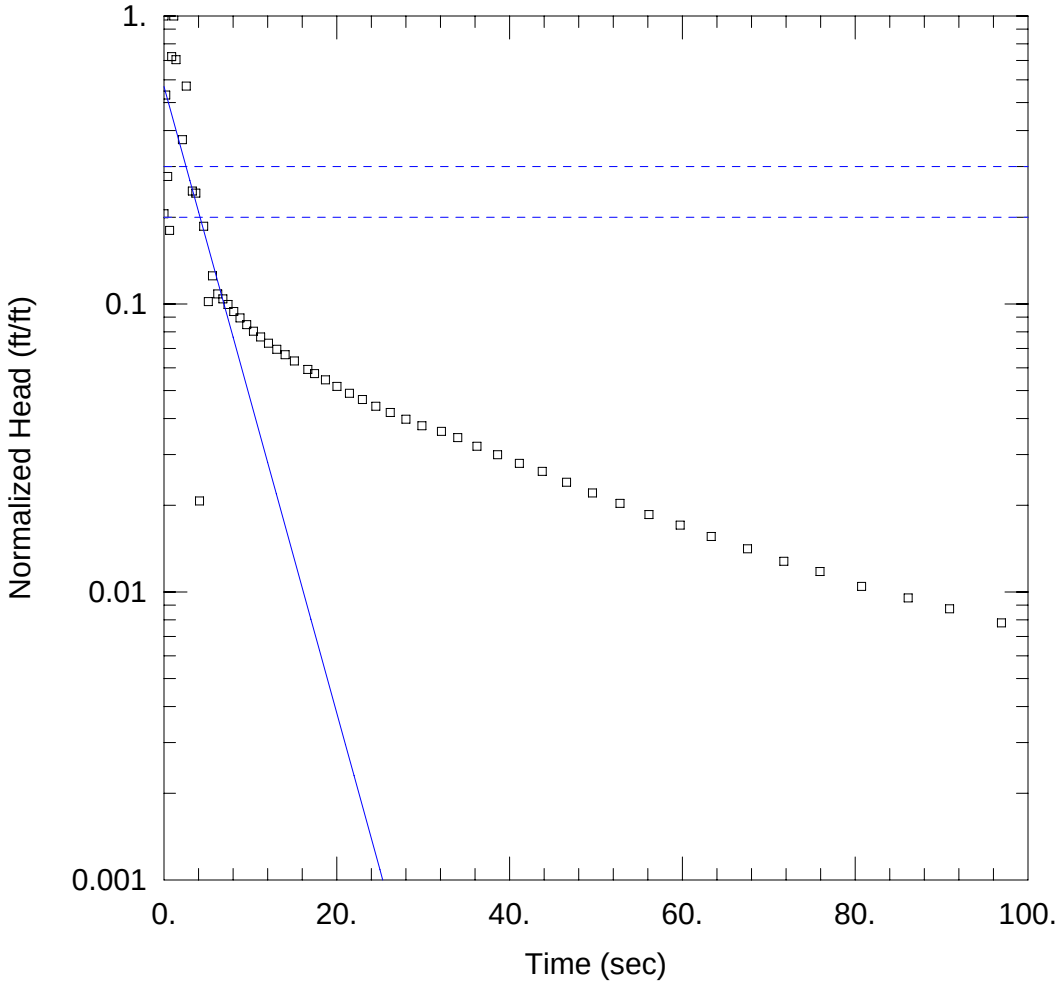
WELL DATA (KAFB106057)

Initial Displacement: 2.535 ft
Total Well Penetration Depth: 29.39 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33.56 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 63.51 ft/day
Le = 1. ft



KAFB106067IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106067IN-BR.aqt
Date: 08/29/11 Time: 10:08:48

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106067
Test Date: 7/21/11

AQUIFER DATA

Saturated Thickness: 28.44 ft
Anisotropy Ratio (Kz/Kr): 0.1

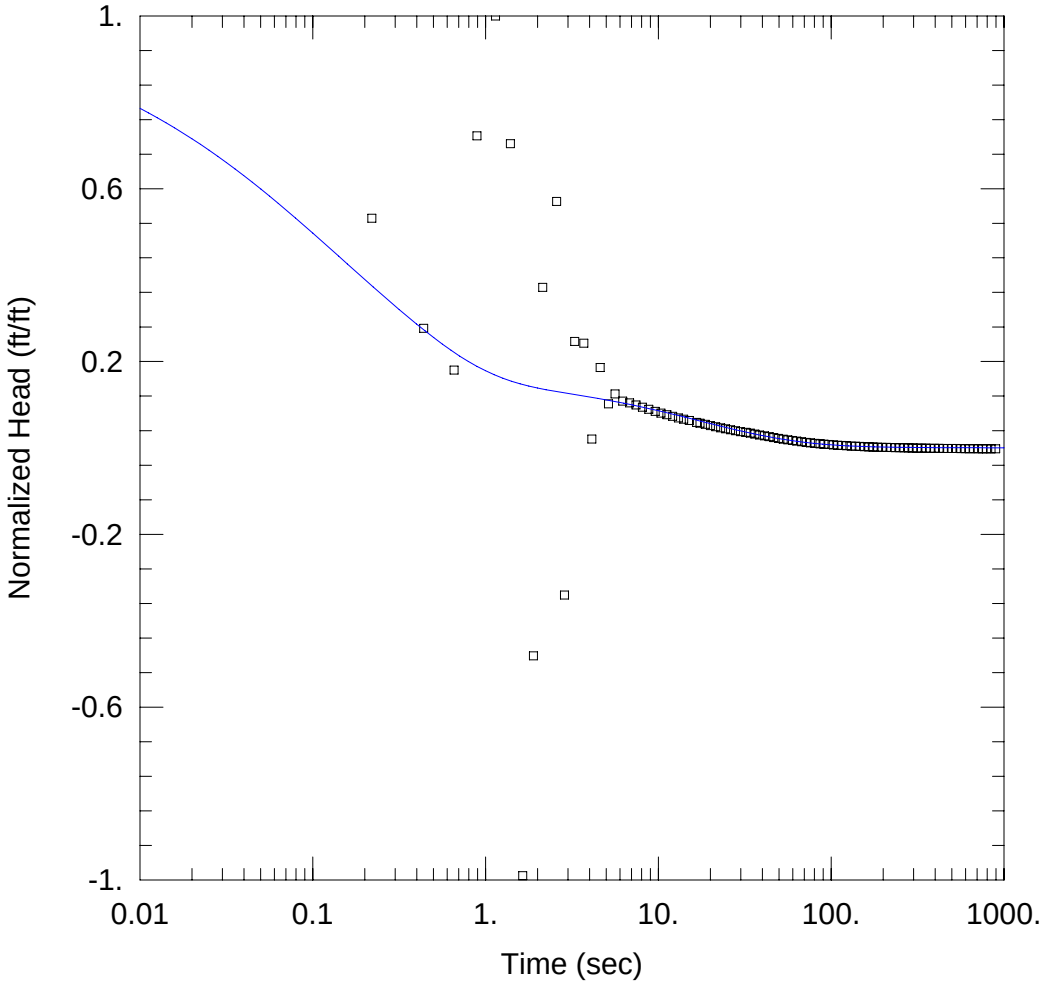
WELL DATA (KAFB106067)

Initial Displacement: 13.01 ft
Total Well Penetration Depth: 13.44 ft
Casing Radius: 0.198 ft
Static Water Column Height: 18.44 ft
Screen Length: 13.44 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 119. ft/day
y0 = 7.393 ft



KAFB106067IN

Data Set: C:\...\KAFB106067IN-KGS[1].aqt
Date: 08/29/11 Time: 10:14:43

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106067
Test Date: 7/21/11

AQUIFER DATA

Saturated Thickness: 28.44 ft

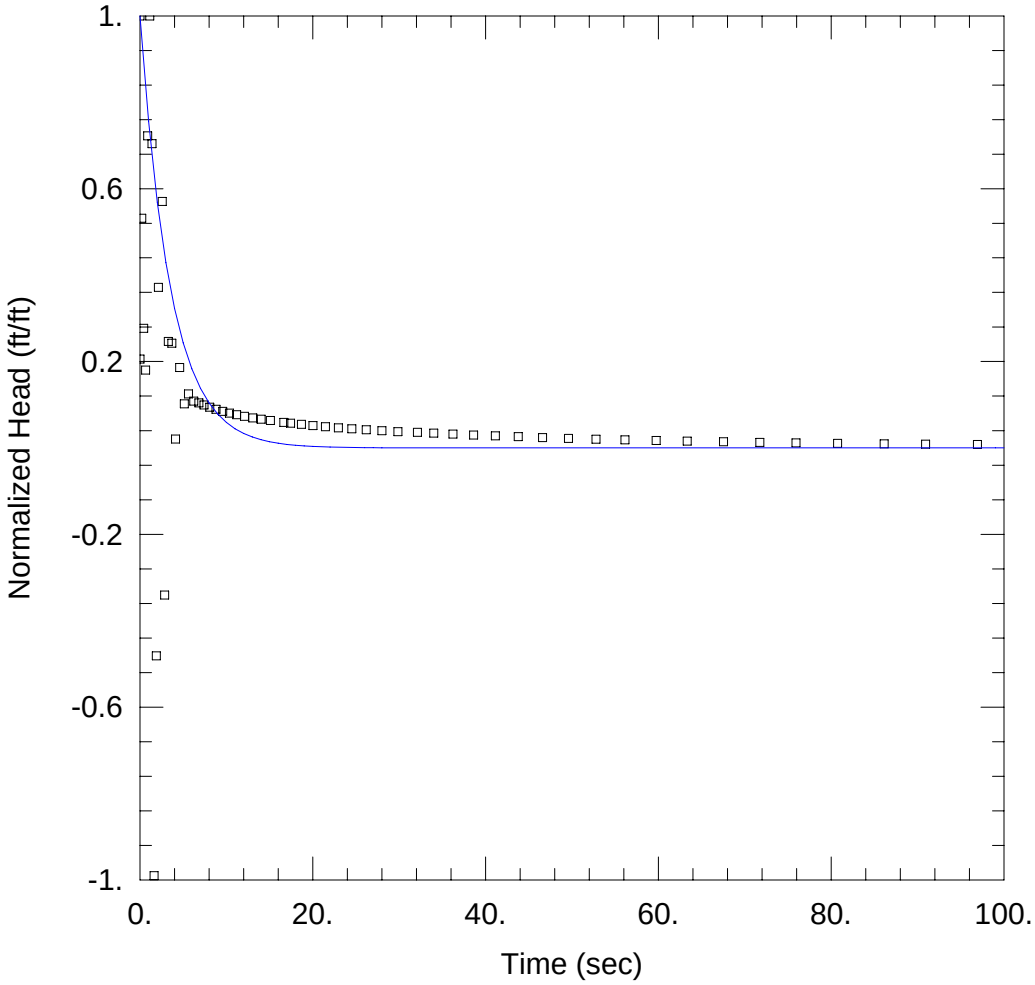
WELL DATA (KAFB106067)

Initial Displacement: 13.01 ft
Total Well Penetration Depth: 13.44 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 18.44 ft
Screen Length: 13.44 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 124. ft/day
Kz/Kr = 0.5559
Ss' = 0.1259 ft^{-1}
Ss = 0.001 ft^{-1}
Kr' = 183.2 ft/day
Kz/Kr' = 0.4677



KAFB106067IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106067IN-SG.aqt
Date: 08/29/11 Time: 10:07:46

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106067
Test Date: 7/21/11

AQUIFER DATA

Saturated Thickness: 28.44 ft
Anisotropy Ratio (Kz/Kr): 0.1

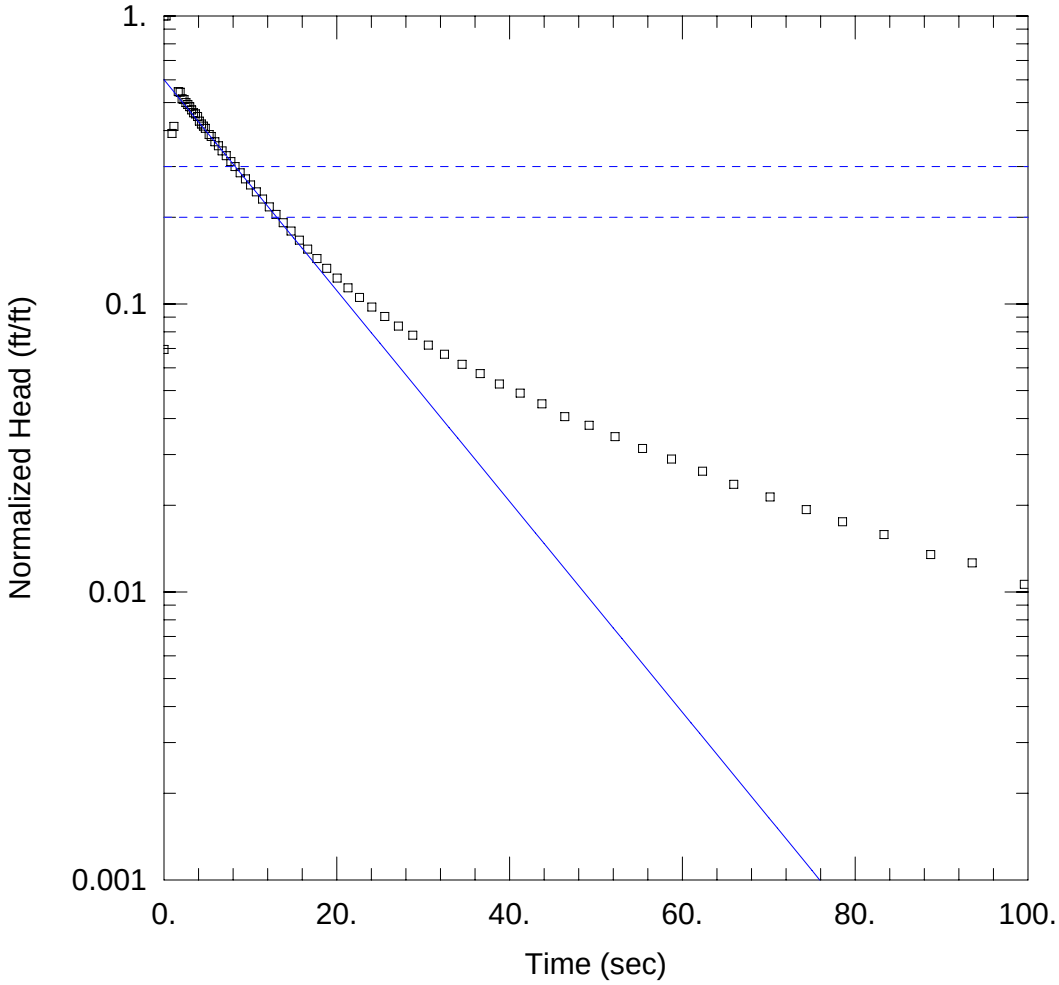
WELL DATA (KAFB106067)

Initial Displacement: 13.01 ft
Total Well Penetration Depth: 13.44 ft
Casing Radius: 0.198 ft
Static Water Column Height: 18.44 ft
Screen Length: 13.44 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 134.3 ft/day
Le = 1. ft



KAFB106067OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106067OUT-BR.aqt
Date: 08/29/11 Time: 10:09:45

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106067
Test Date: 7/21/11

AQUIFER DATA

Saturated Thickness: 28.44 ft
Anisotropy Ratio (Kz/Kr): 0.1

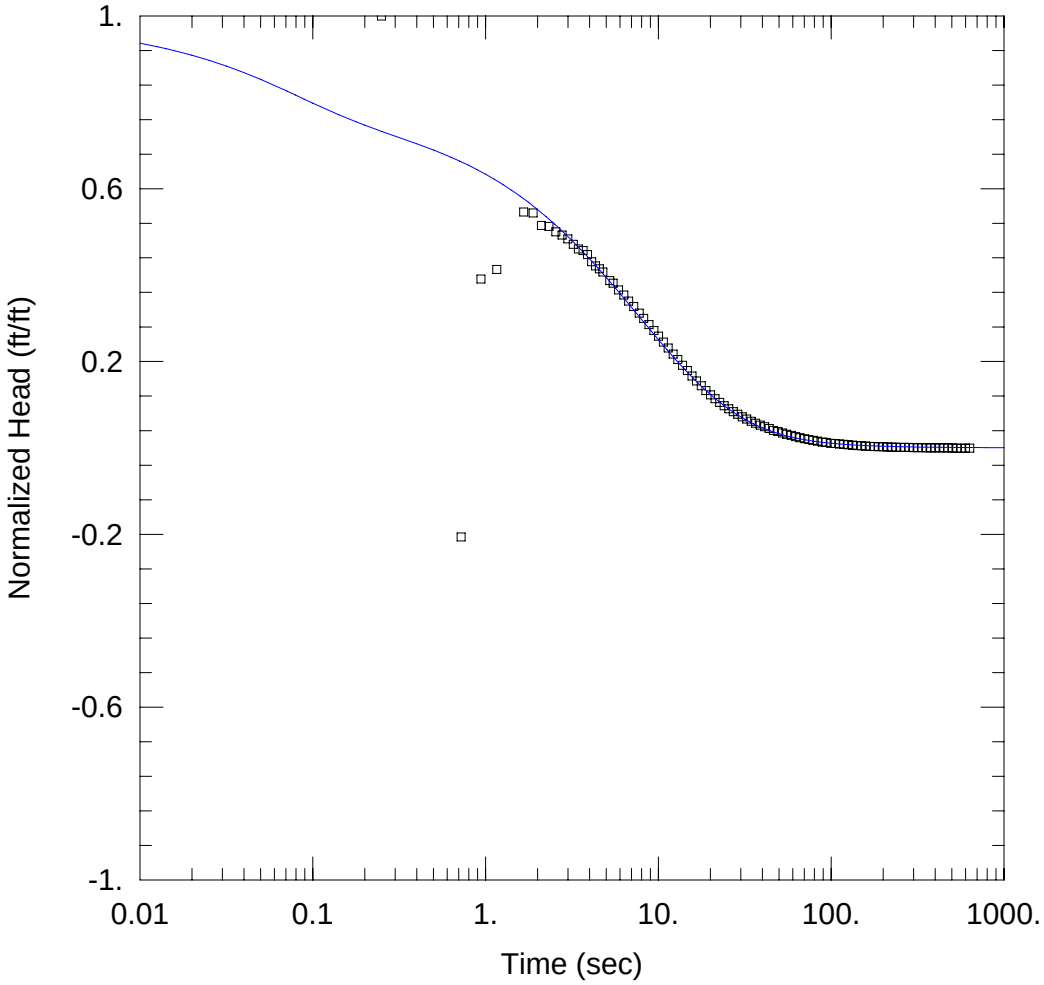
WELL DATA (KAFB106067)

Initial Displacement: 8.086 ft
Total Well Penetration Depth: 13.44 ft
Casing Radius: 0.198 ft
Static Water Column Height: 18.44 ft
Screen Length: 13.44 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 40.06 ft/day
y0 = 4.856 ft



KAFB106067OUT

Data Set: C:\...\KAFB106067OUT-KSD[1].aqt
Date: 08/29/11 Time: 10:14:21

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106067
Test Date: 7/21/11

AQUIFER DATA

Saturated Thickness: 28.44 ft

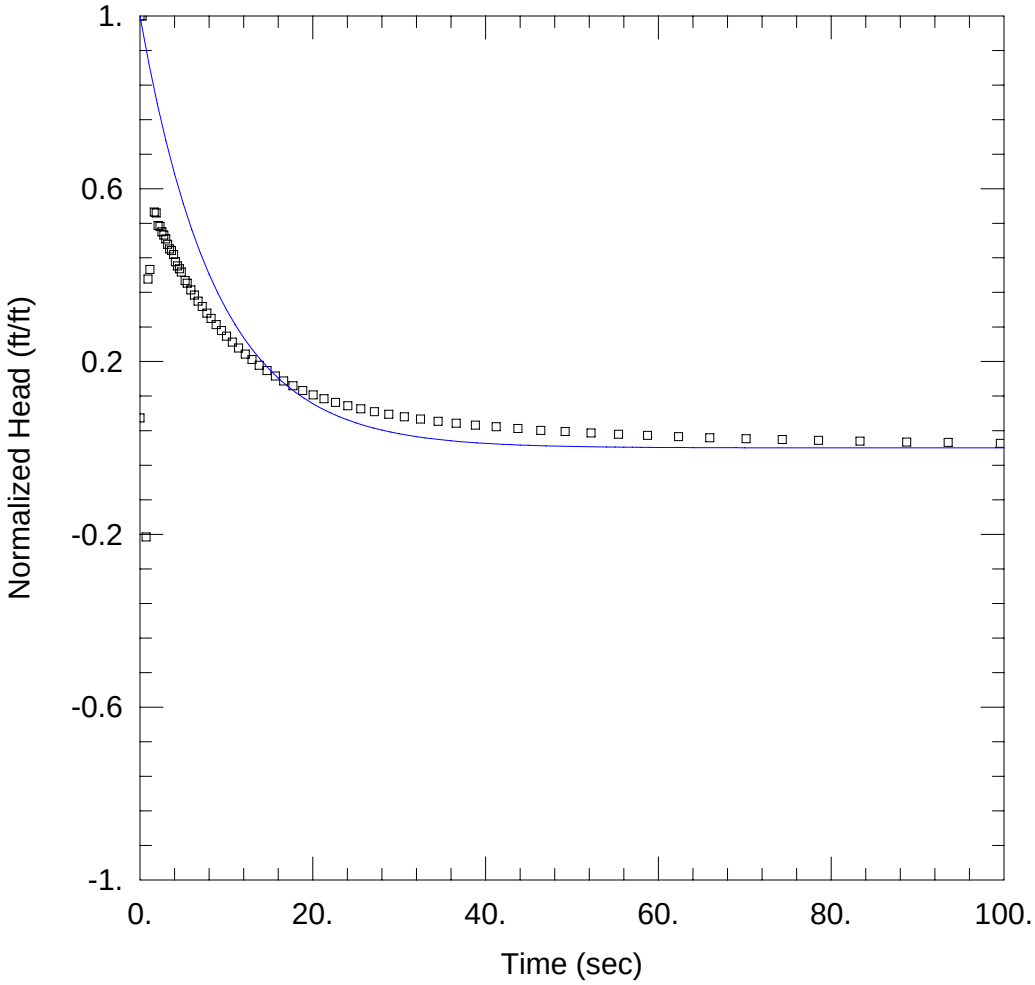
WELL DATA (KAFB106067)

Initial Displacement: 8.086 ft
Total Well Penetration Depth: 13.44 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 18.44 ft
Screen Length: 13.44 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 54.16 ft/day
Kz/Kr = 0.2213
Ss' = 0.007079 ft^{-1}
Ss = 0.0002483 ft^{-1}
Kr' = 183.2 ft/day
Kz/Kr' = 1.



KAFB106067OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106067OUT-SG.aqt
Date: 08/29/11 Time: 15:48:58

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106067
Test Date: 7/21/11

AQUIFER DATA

Saturated Thickness: 28.44 ft
Anisotropy Ratio (Kz/Kr): 0.1

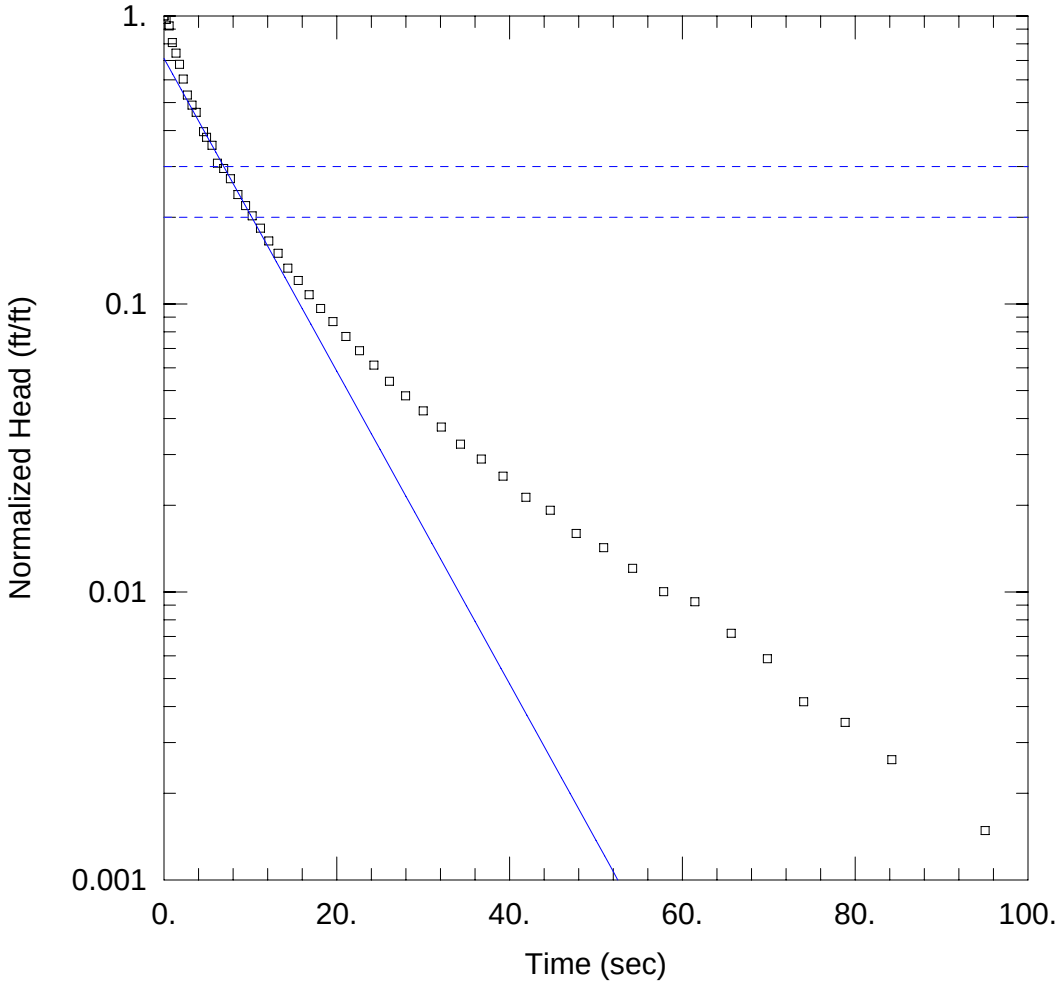
WELL DATA (KAFB106067)

Initial Displacement: 8.086 ft
Total Well Penetration Depth: 13.44 ft
Casing Radius: 0.198 ft
Static Water Column Height: 18.44 ft
Screen Length: 13.44 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 54.12 ft/day
Le = 1. ft



KAFB106068P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106068P1-BR.aqt
Date: 08/25/11 Time: 13:06:50

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106068
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 28. ft
Anisotropy Ratio (Kz/Kr): 0.1

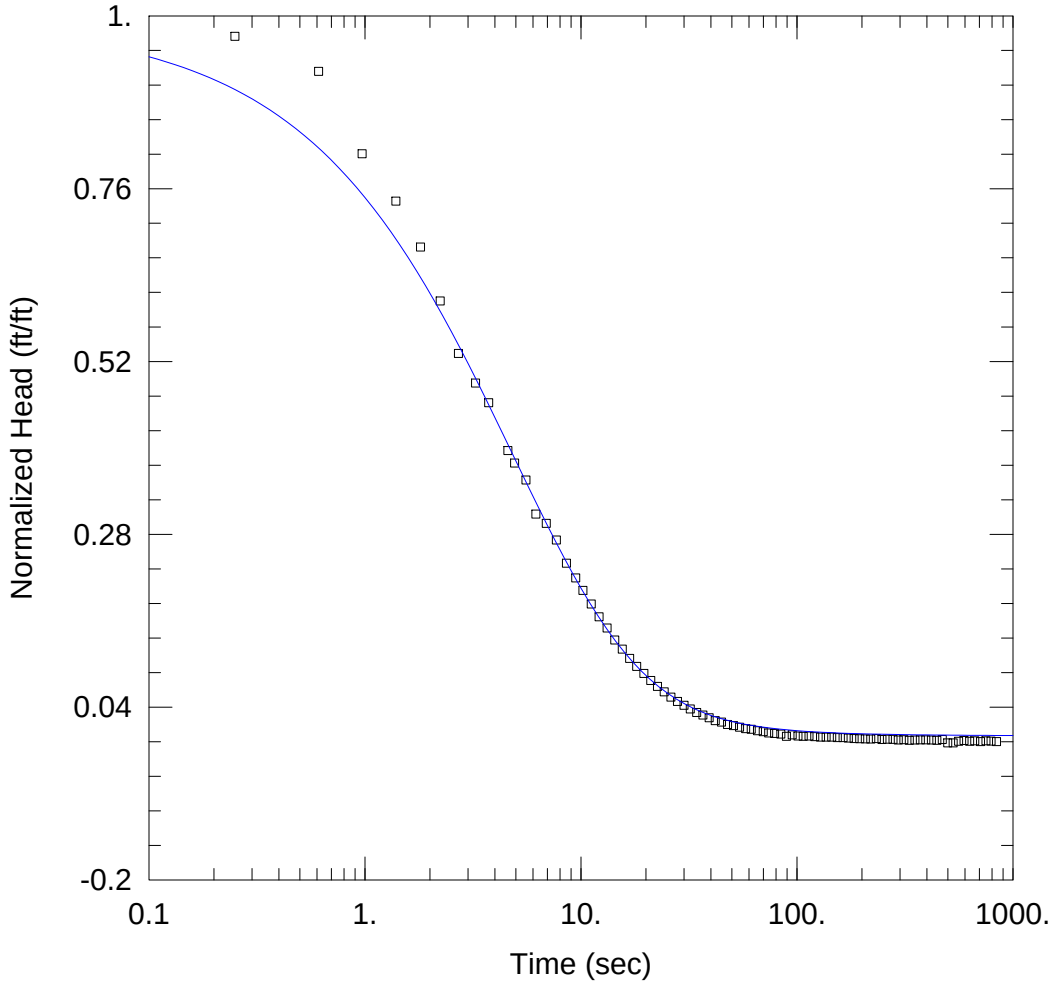
WELL DATA (KAFB106068)

Initial Displacement: 2.299 ft
Total Well Penetration Depth: 104.8 ft
Casing Radius: 0.198 ft
Static Water Column Height: 109.8 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 78.35 ft/day
y0 = 1.637 ft



KAFB106068P1

Data Set: C:\...\KAFB106068P1-KGS[1].aqt
Date: 08/27/11 Time: 14:22:00

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106068
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 28. ft

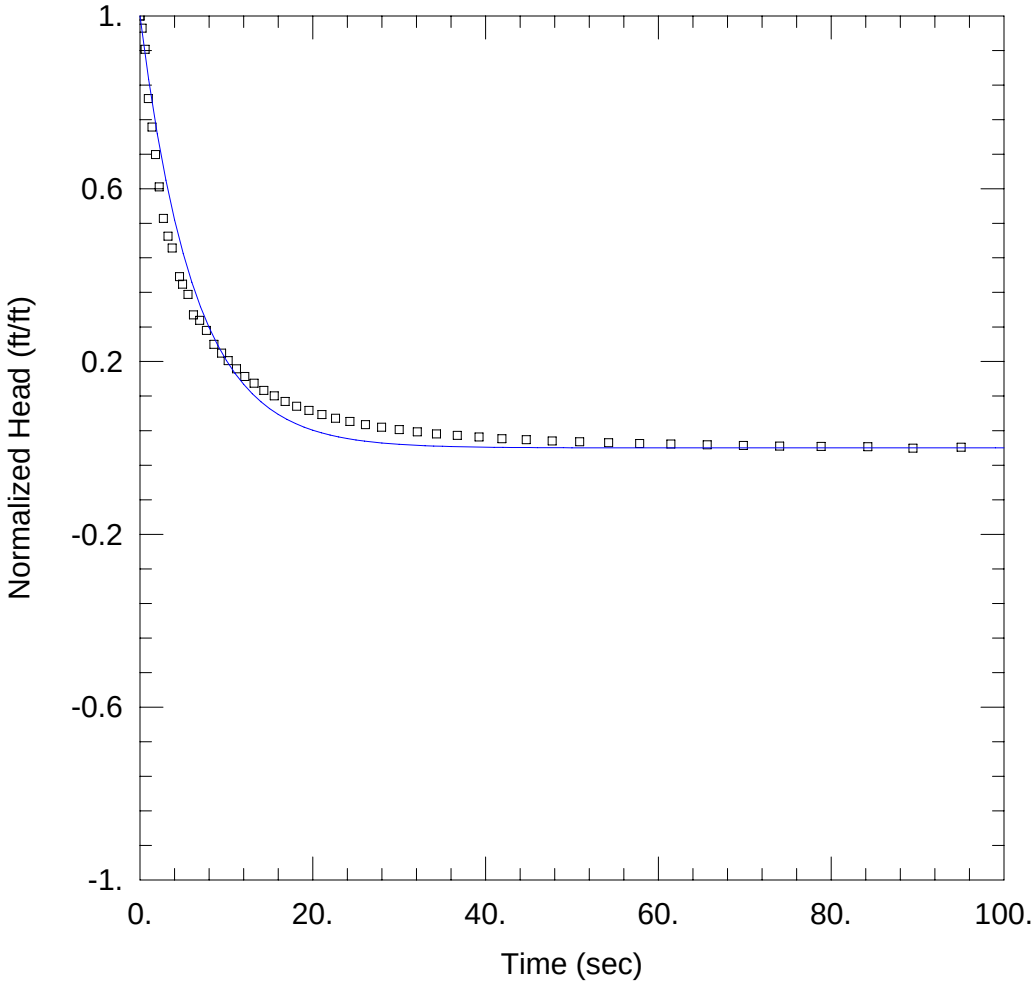
WELL DATA (KAFB106068)

Initial Displacement: 2.299 ft
Total Well Penetration Depth: 104.8 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 109.8 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 57.34 ft/day
Kz/Kr = 0.1
Ss' = 0.0001585 ft^{-1}
Ss = 0.0002239 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106068P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106068P1-SG.aqt
Date: 08/25/11 Time: 13:07:28

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106068
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 28. ft
Anisotropy Ratio (Kz/Kr): 0.1

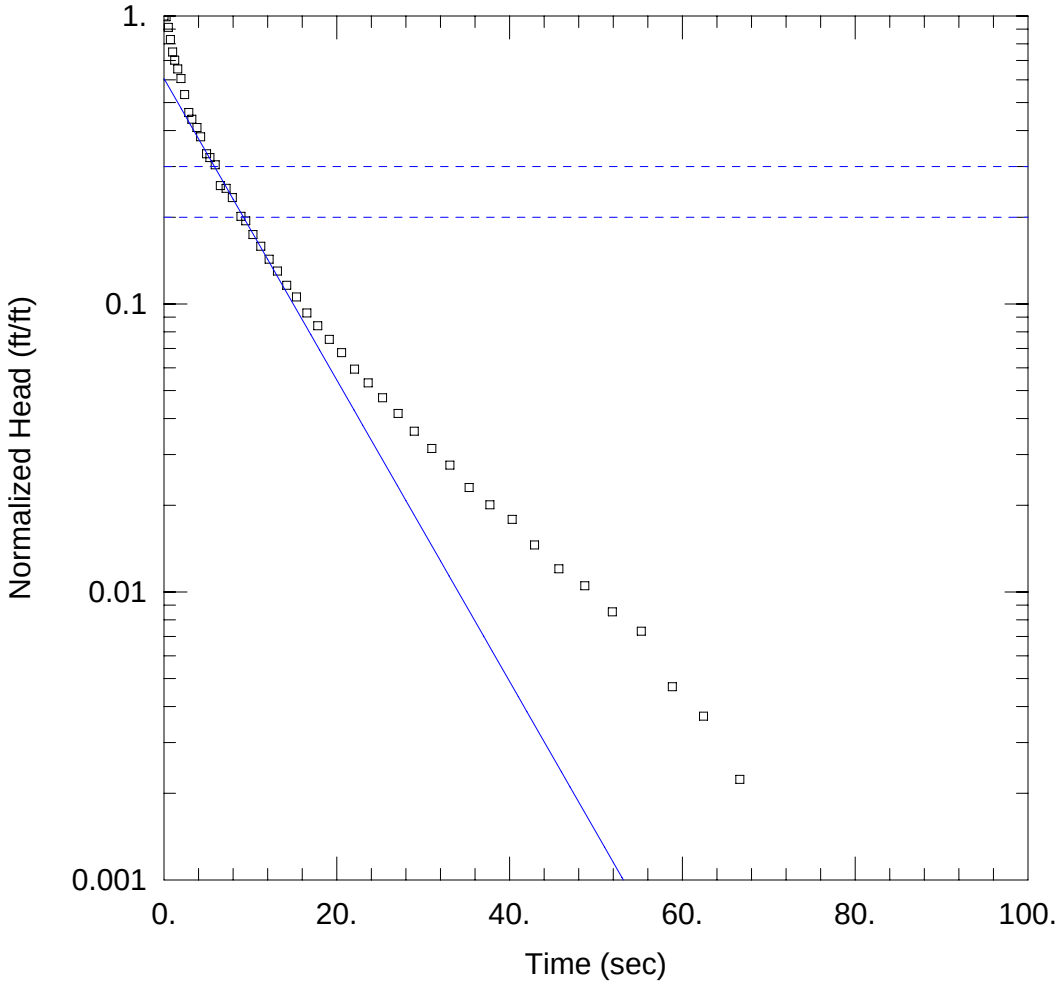
WELL DATA (KAFB106068)

Initial Displacement: 2.299 ft
Total Well Penetration Depth: 104.8 ft
Casing Radius: 0.198 ft
Static Water Column Height: 109.8 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 100.2 ft/day
Le = 1. ft



KAFB106068P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106068P2-BR.aqt
Date: 08/25/11 Time: 13:10:04

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106068
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 28. ft
Anisotropy Ratio (Kz/Kr): 0.1

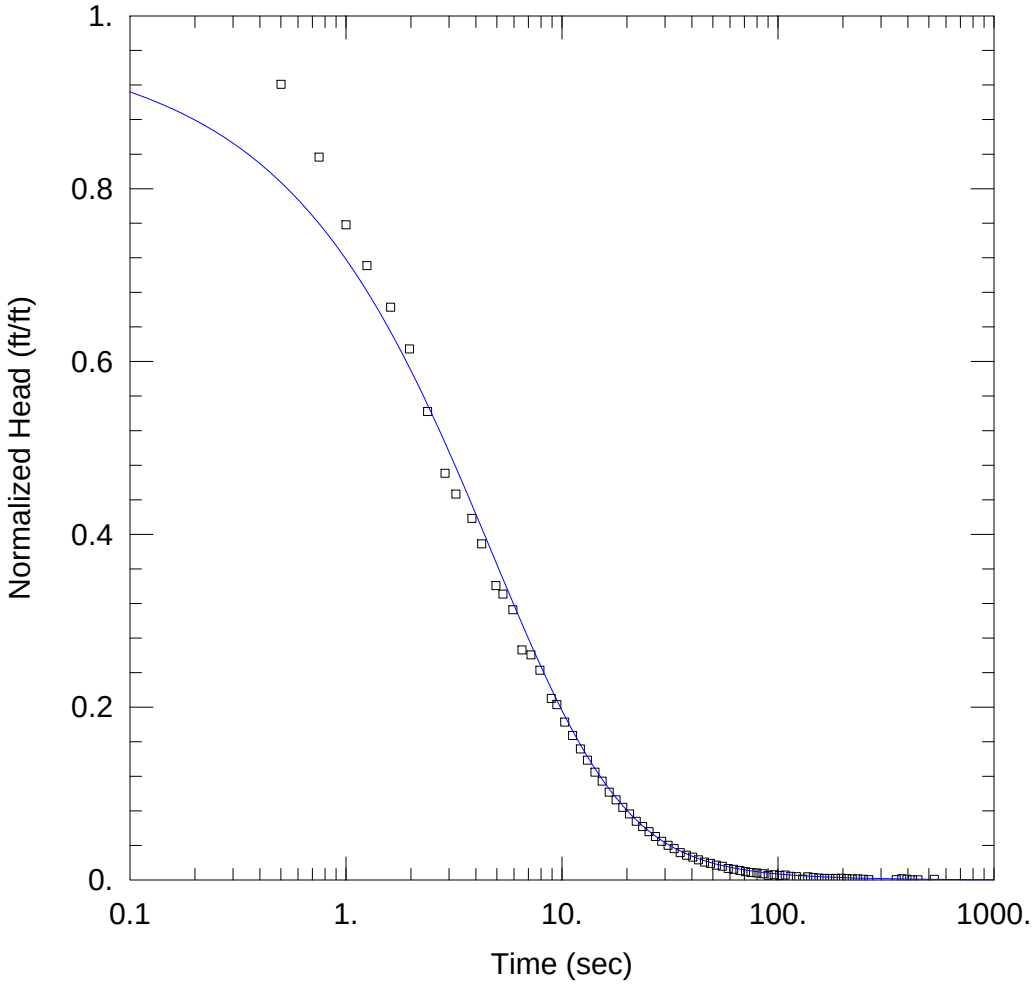
WELL DATA (KAFB106068)

Initial Displacement: 2.323 ft
Total Well Penetration Depth: 104.8 ft
Casing Radius: 0.198 ft
Static Water Column Height: 109.8 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 75.52 ft/day
y0 = 1.408 ft



KAFB106068P2

Data Set: C:\...\KAFB106068P2-KGS[1].aqt
Date: 08/27/11 Time: 14:35:02

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106068
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 28. ft

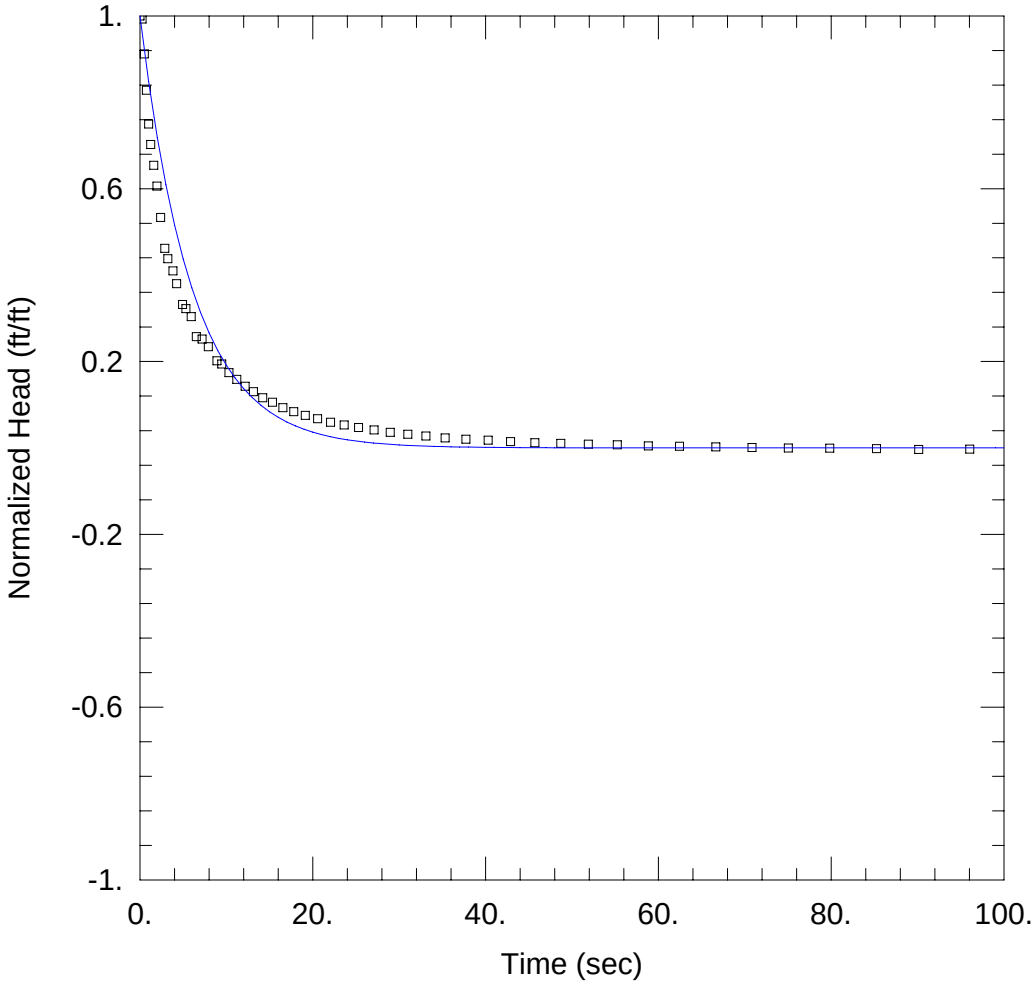
WELL DATA (KAFB106068)

Initial Displacement: 2.323 ft
Total Well Penetration Depth: 104.8 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 109.8 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 59.84 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.0002483 ft^{-1}
Kr' = 174.3 ft/day
Kz/Kr' = 1.



KAFB106068P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106068P2-SG.aqt
Date: 08/25/11 Time: 13:10:40

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106068
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 28. ft
Anisotropy Ratio (Kz/Kr): 0.1

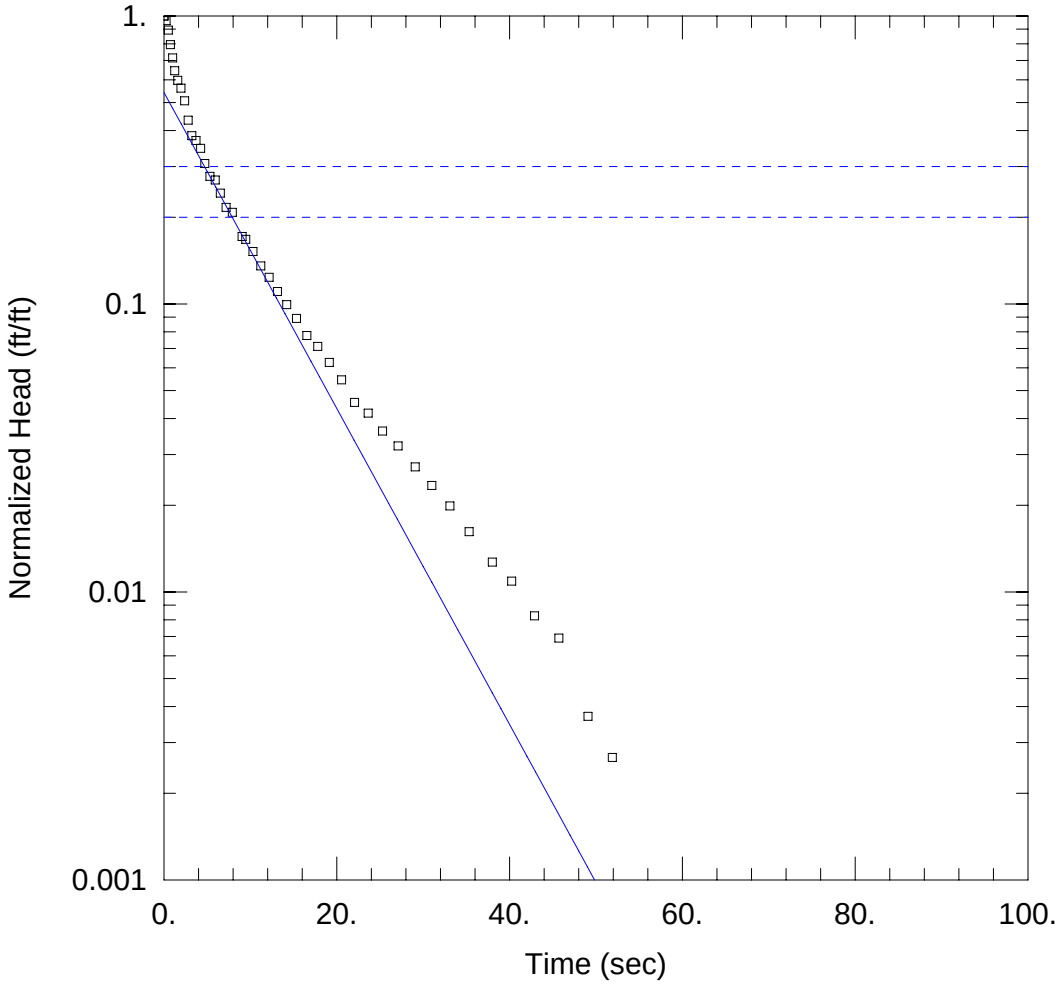
WELL DATA (KAFB106068)

Initial Displacement: 2.323 ft
Total Well Penetration Depth: 104.8 ft
Casing Radius: 0.198 ft
Static Water Column Height: 109.8 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 103.8 ft/day
Le = 1. ft



KAFB106068P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106068P3-BR.aqt
Date: 08/25/11 Time: 13:13:29

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106068
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 28. ft
Anisotropy Ratio (Kz/Kr): 0.1

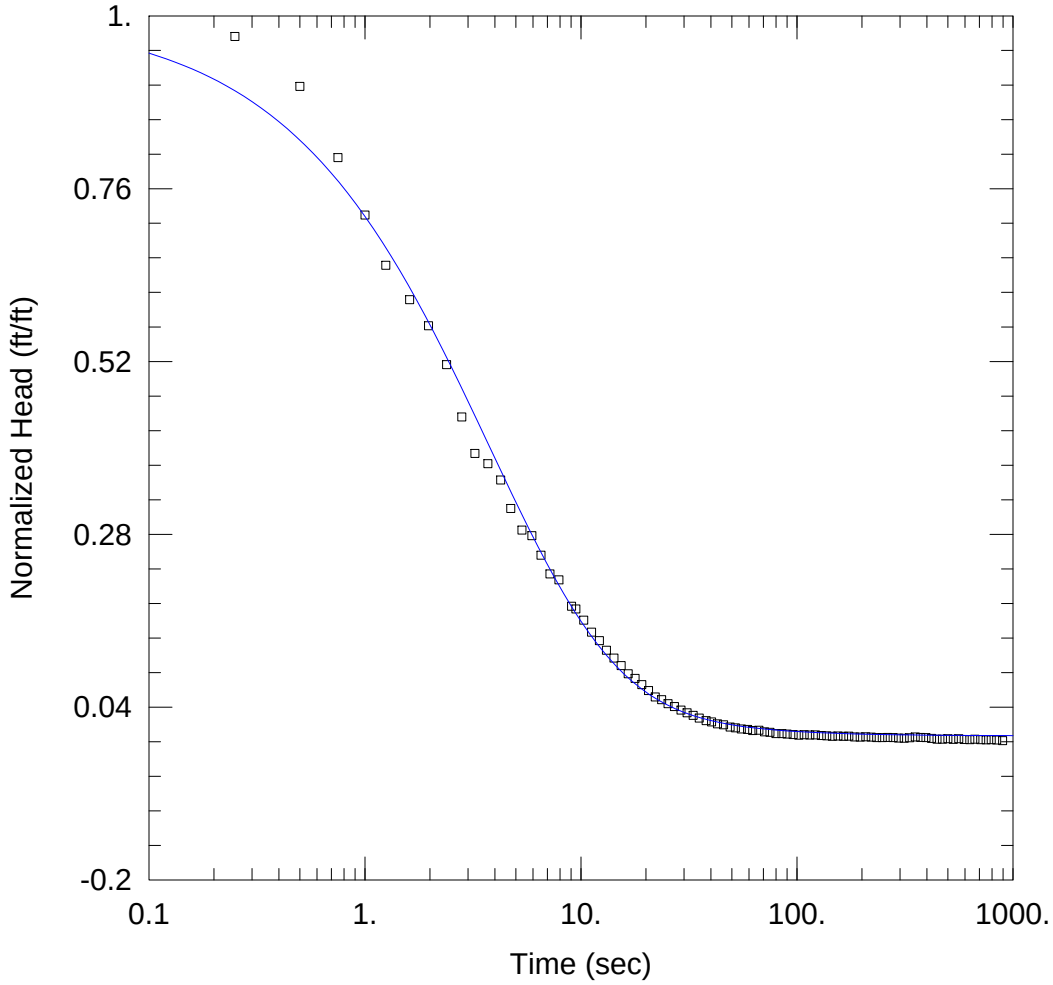
WELL DATA (KAFB106068)

Initial Displacement: 2.318 ft
Total Well Penetration Depth: 104.8 ft
Casing Radius: 0.198 ft
Static Water Column Height: 109.8 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 79.17 ft/day
y0 = 1.257 ft



KAFB106068P3

Data Set: C:\...\KAFB106068P3-KGS[1].aqt
Date: 08/27/11 Time: 14:39:07

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106068
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 28. ft

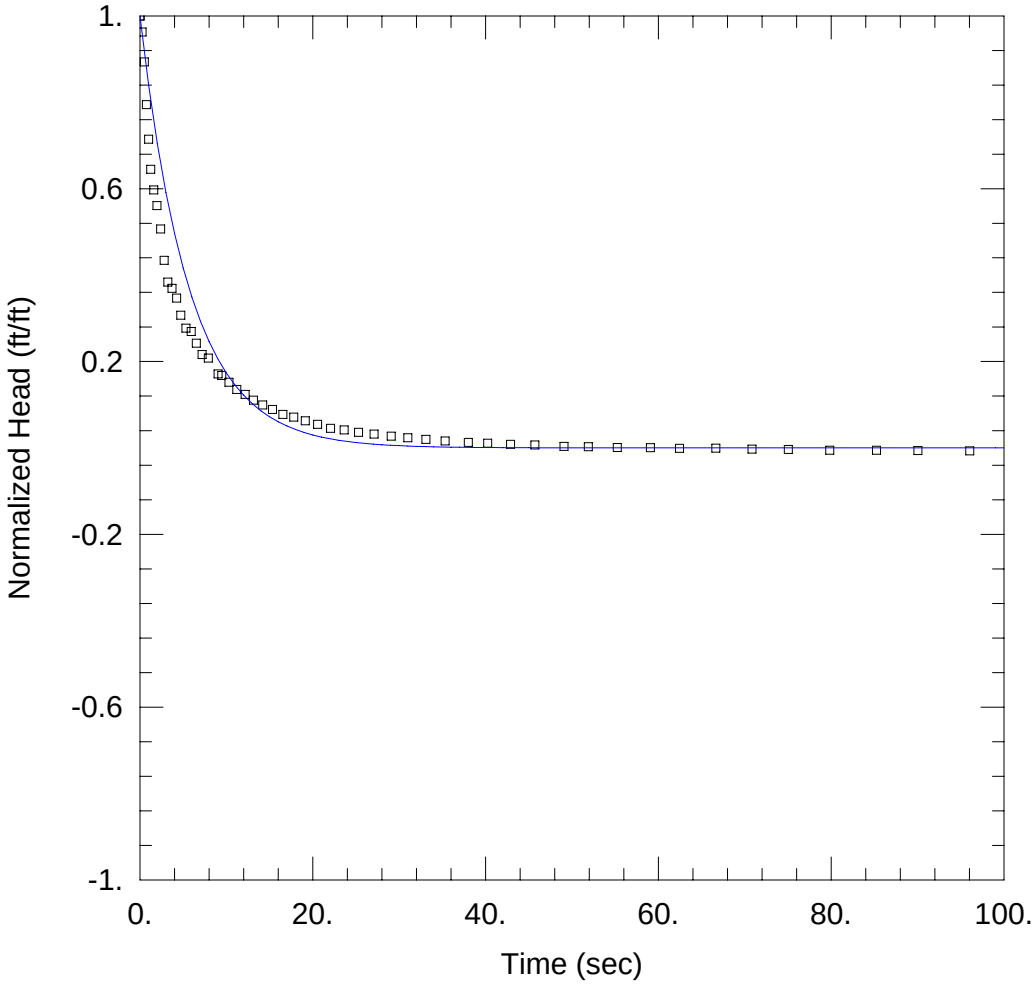
WELL DATA (KAFB106068)

Initial Displacement: 2.318 ft
Total Well Penetration Depth: 104.8 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 109.8 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 75.22 ft/day
Kz/Kr = 0.1
Ss' = 8.913E-5 ft^{-1}
Ss = 0.0005556 ft^{-1}
Kr' = 74.96 ft/day
Kz/Kr' = 1.



KAFB106068P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106068P3-SG.aqt
Date: 08/25/11 Time: 13:14:18

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106068
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 28. ft
Anisotropy Ratio (Kz/Kr): 0.1

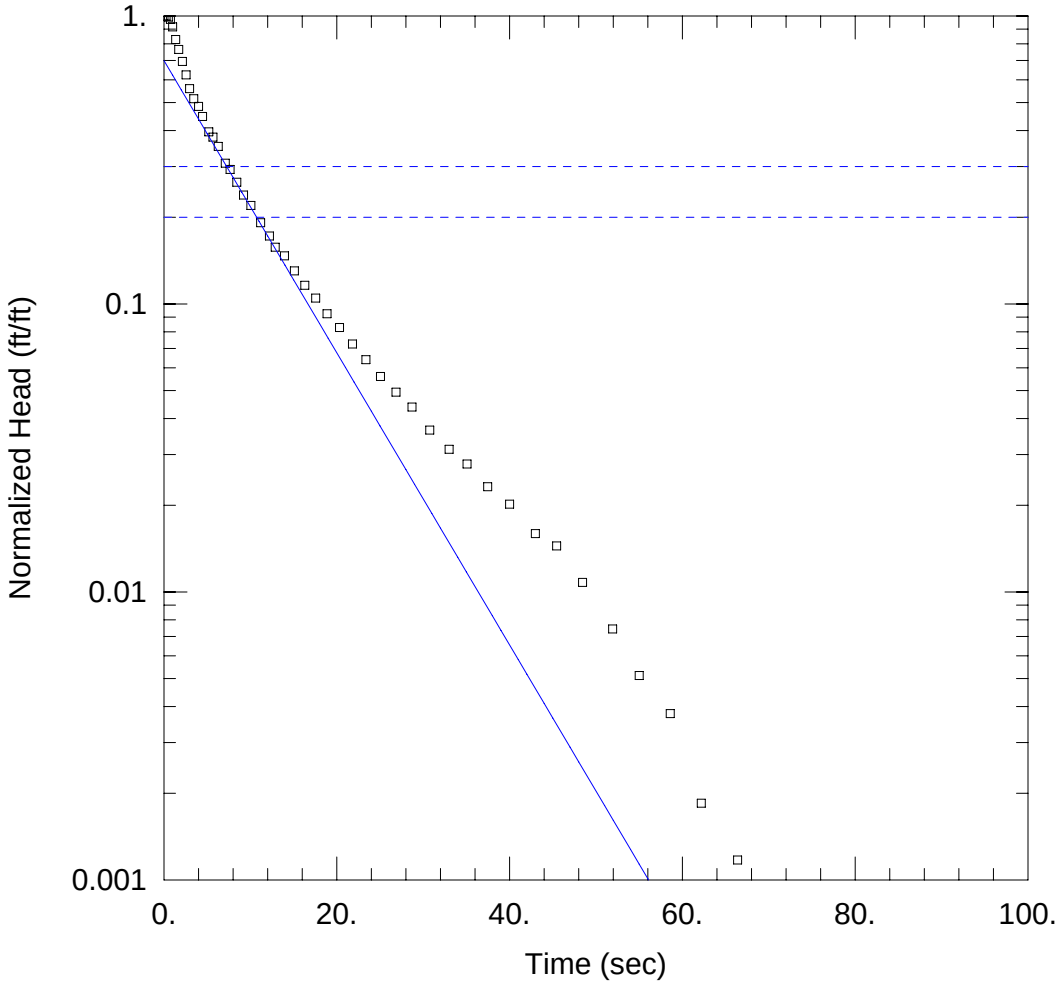
WELL DATA (KAFB106068)

Initial Displacement: 2.318 ft
Total Well Penetration Depth: 104.8 ft
Casing Radius: 0.198 ft
Static Water Column Height: 109.8 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 110. ft/day
Le = 1. ft



KAFB106068P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106068P4-BR.aqt
Date: 08/25/11 Time: 13:16:53

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106068
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 28. ft
Anisotropy Ratio (Kz/Kr): 0.1

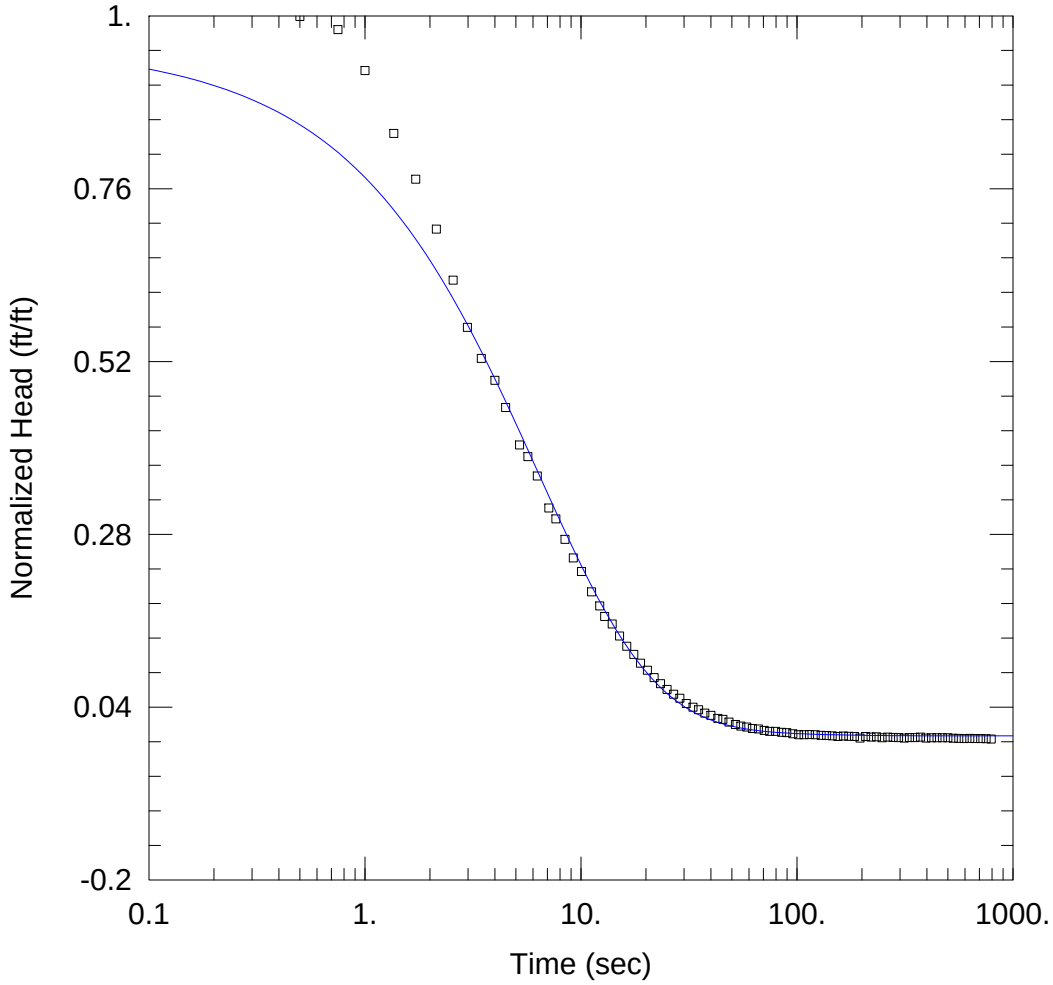
WELL DATA (KAFB106068)

Initial Displacement: 2.355 ft
Total Well Penetration Depth: 104.8 ft
Casing Radius: 0.198 ft
Static Water Column Height: 109.8 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 73.19 ft/day
y0 = 1.647 ft



KAFB106068P4

Data Set: C:\...\KAFB106068P4-KGS[1].aqt
Date: 08/27/11 Time: 14:42:35

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106068
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 28. ft

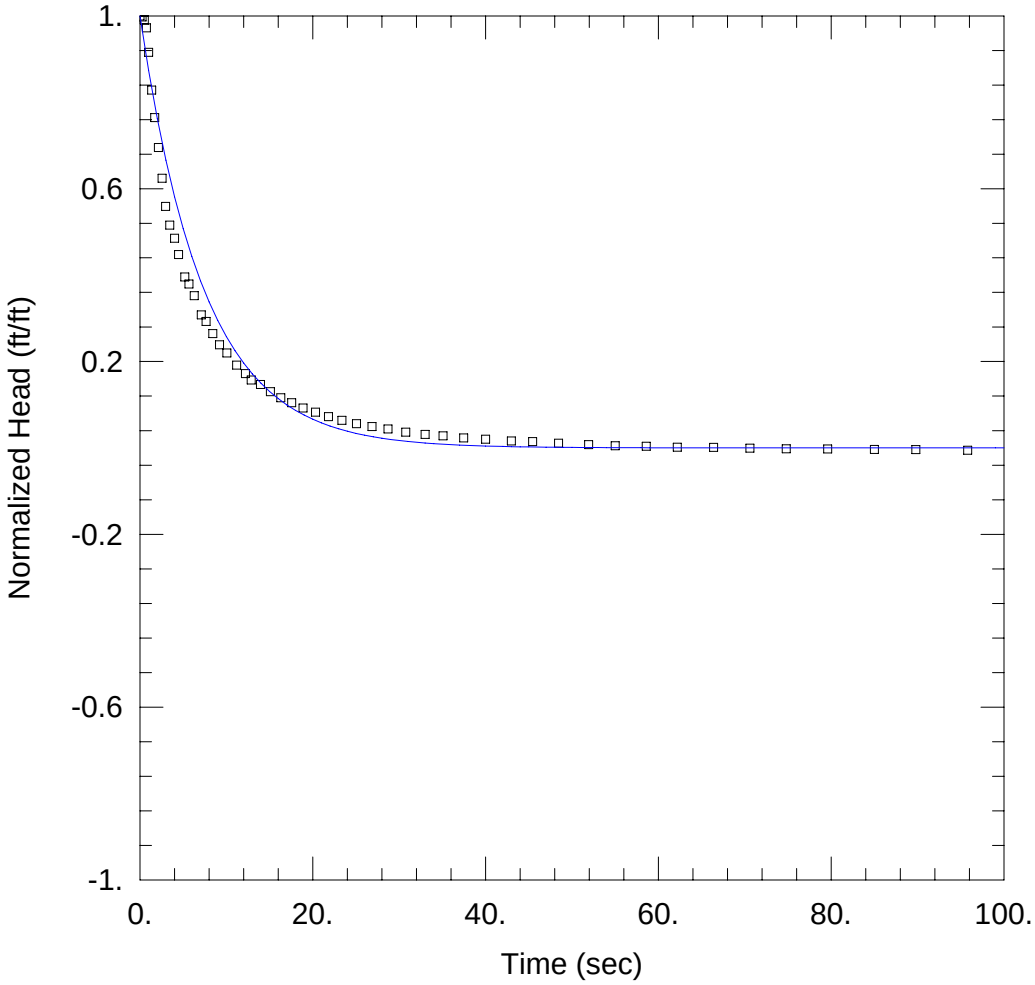
WELL DATA (KAFB106068)

Initial Displacement: 2.355 ft
Total Well Penetration Depth: 104.8 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 109.8 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 63.1 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 3.467E-5 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106068P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106068P4-SG.aqt
Date: 08/25/11 Time: 13:17:27

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106068
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 28. ft
Anisotropy Ratio (Kz/Kr): 0.1

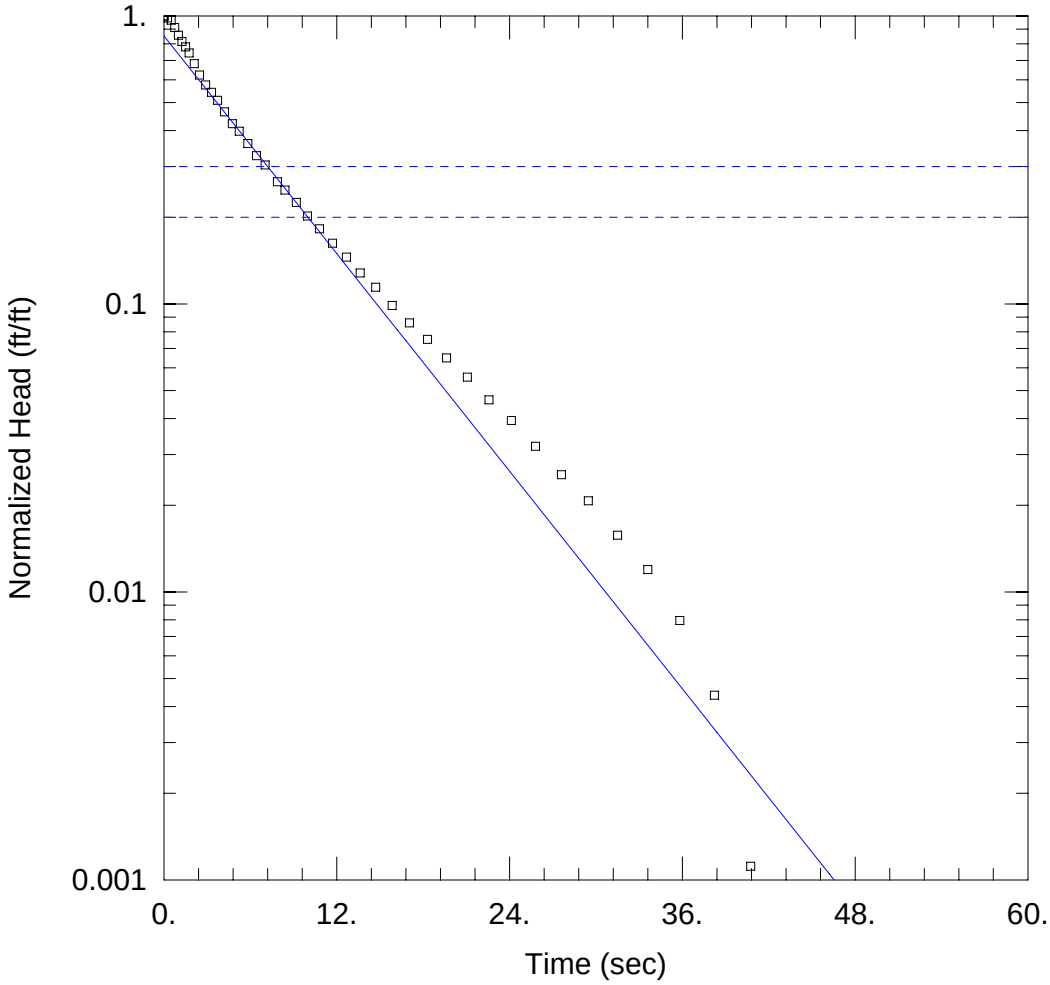
WELL DATA (KAFB106068)

Initial Displacement: 2.355 ft
Total Well Penetration Depth: 104.8 ft
Casing Radius: 0.198 ft
Static Water Column Height: 109.8 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 85.09 ft/day
Le = 1. ft



KAFB106071P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106071P1-BR.aqt
Date: 08/25/11 Time: 13:36:56

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106071
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 37. ft
Anisotropy Ratio (Kz/Kr): 0.1

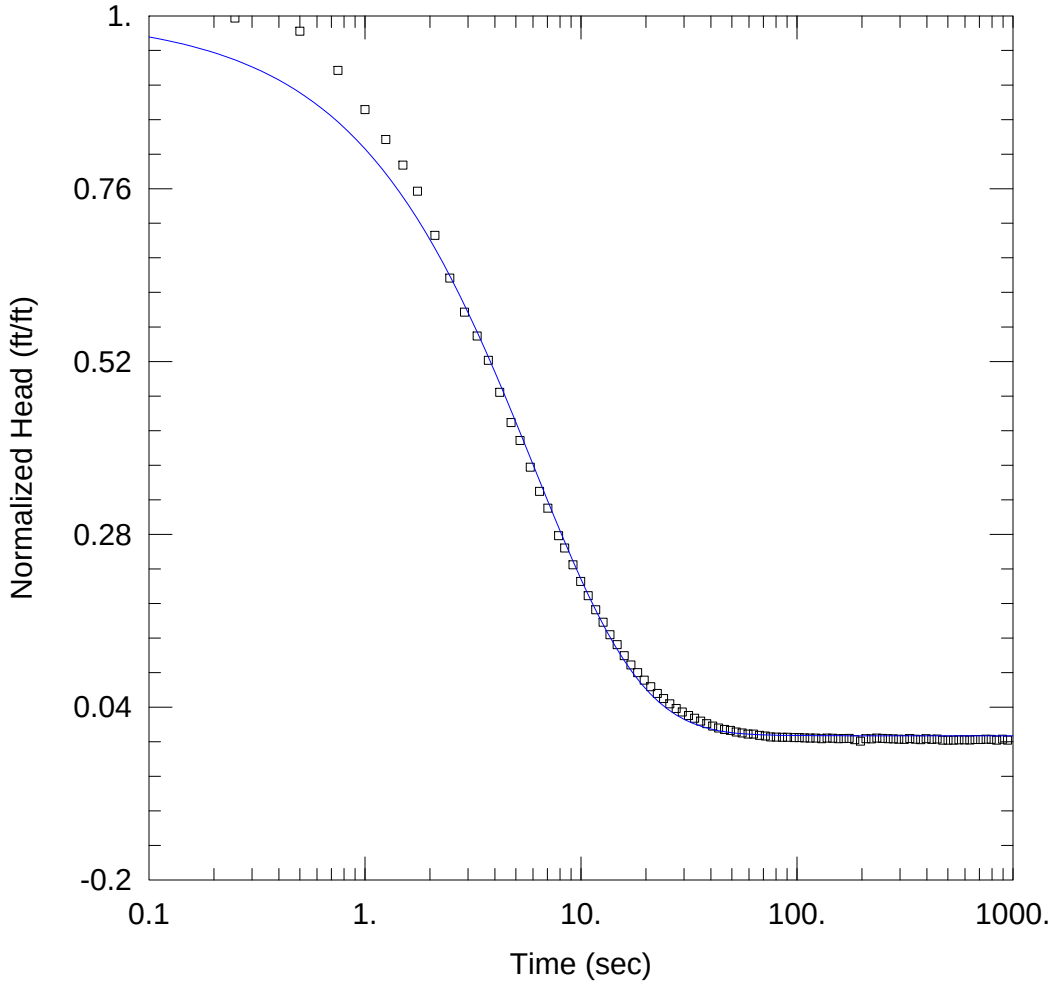
WELL DATA (New Well)

Initial Displacement: 2.395 ft
Total Well Penetration Depth: 97.68 ft
Casing Radius: 0.198 ft
Static Water Column Height: 102.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 90.16 ft/day
y0 = 2.04 ft



KAFB106071P1

Data Set: C:\...\KAFB106071P1-kgs[1].aqt
Date: 08/27/11 Time: 15:12:17

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106071
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 37. ft

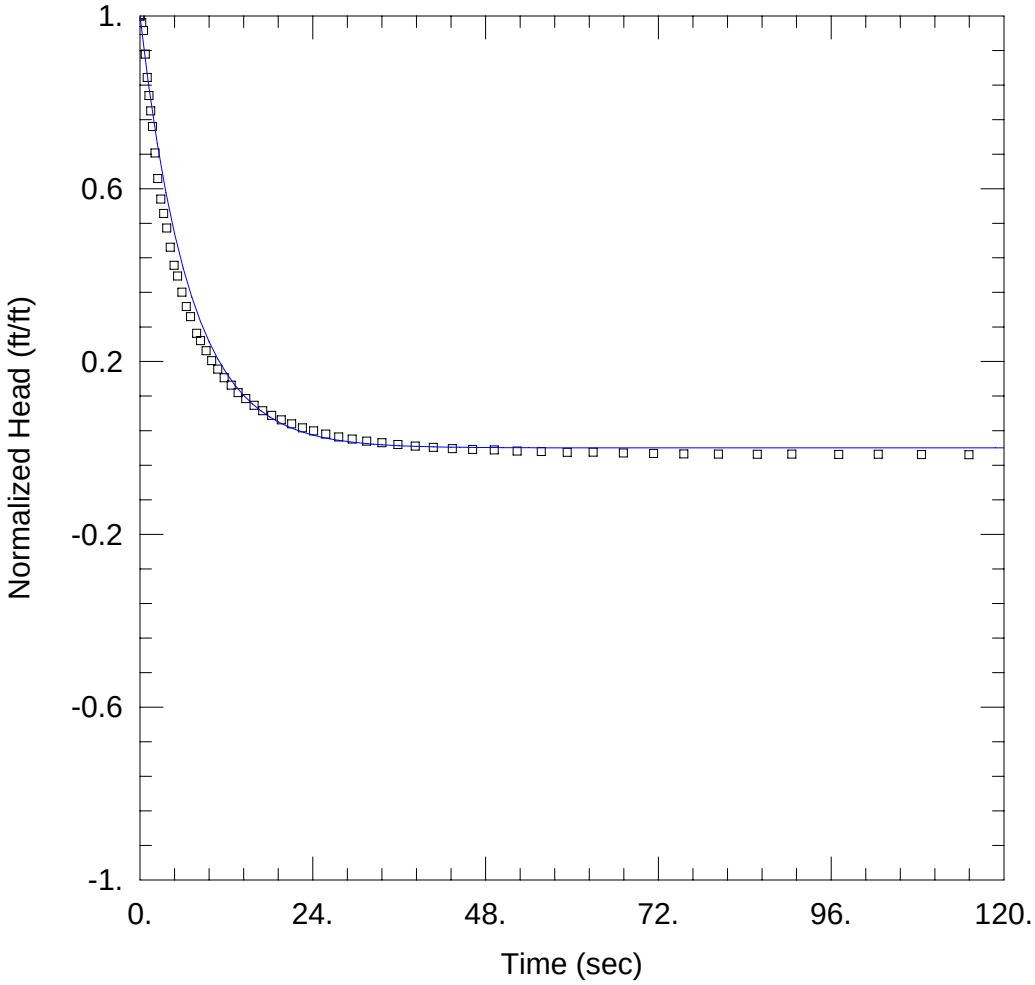
WELL DATA (106071)

Initial Displacement: 2.395 ft
Total Well Penetration Depth: 97.68 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 102.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 73.48 ft/day
Kz/Kr = 0.1
Ss' = 5.623E-6 ft^{-1}
Ss = 1.0E-5 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106071P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106071P1-SG.aqt
Date: 08/25/11 Time: 13:38:50

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106071
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 37. ft
Anisotropy Ratio (Kz/Kr): 0.1

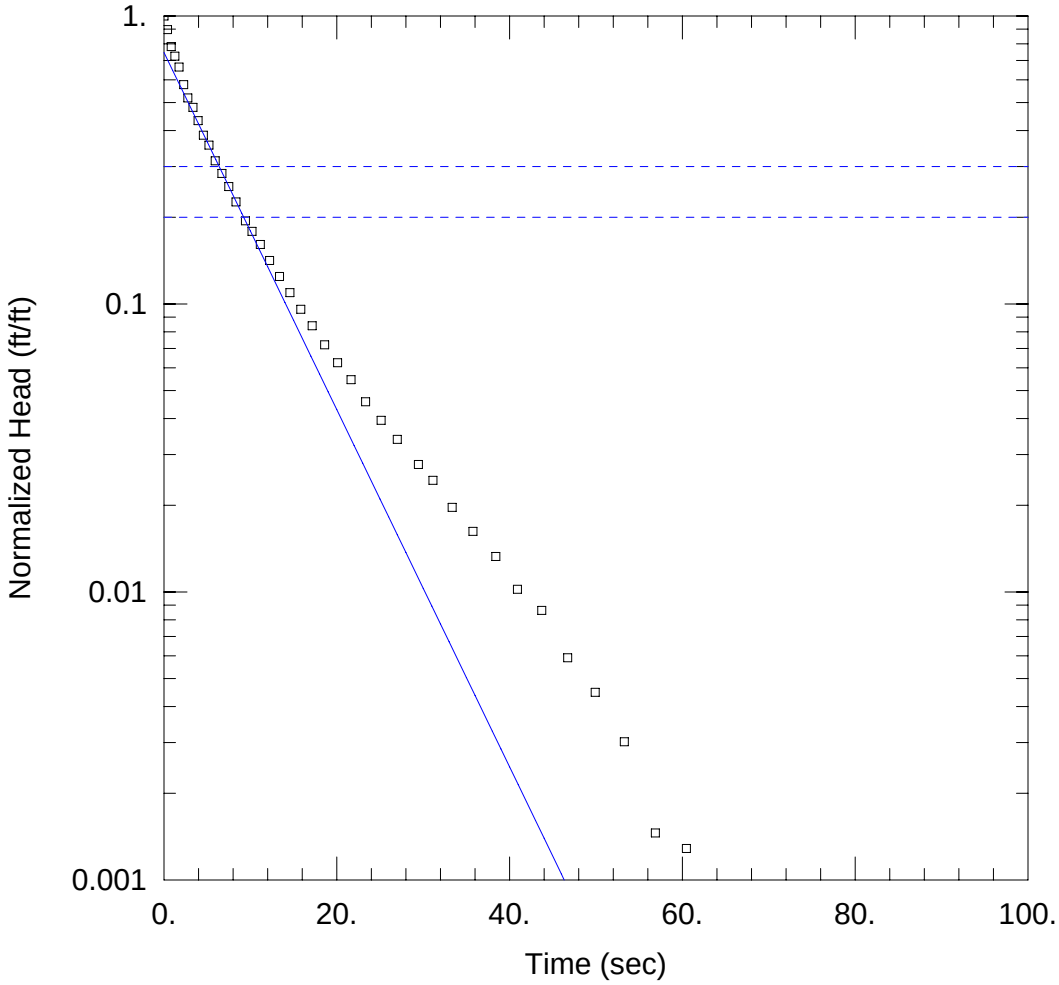
WELL DATA (New Well)

Initial Displacement: 2.395 ft
Total Well Penetration Depth: 97.68 ft
Casing Radius: 0.198 ft
Static Water Column Height: 102.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 90.98 ft/day
Le = 1. ft



KAFB106071P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106071P2-BR.aqt
Date: 08/25/11 Time: 13:41:28

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106071
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 37. ft
Anisotropy Ratio (Kz/Kr): 0.1

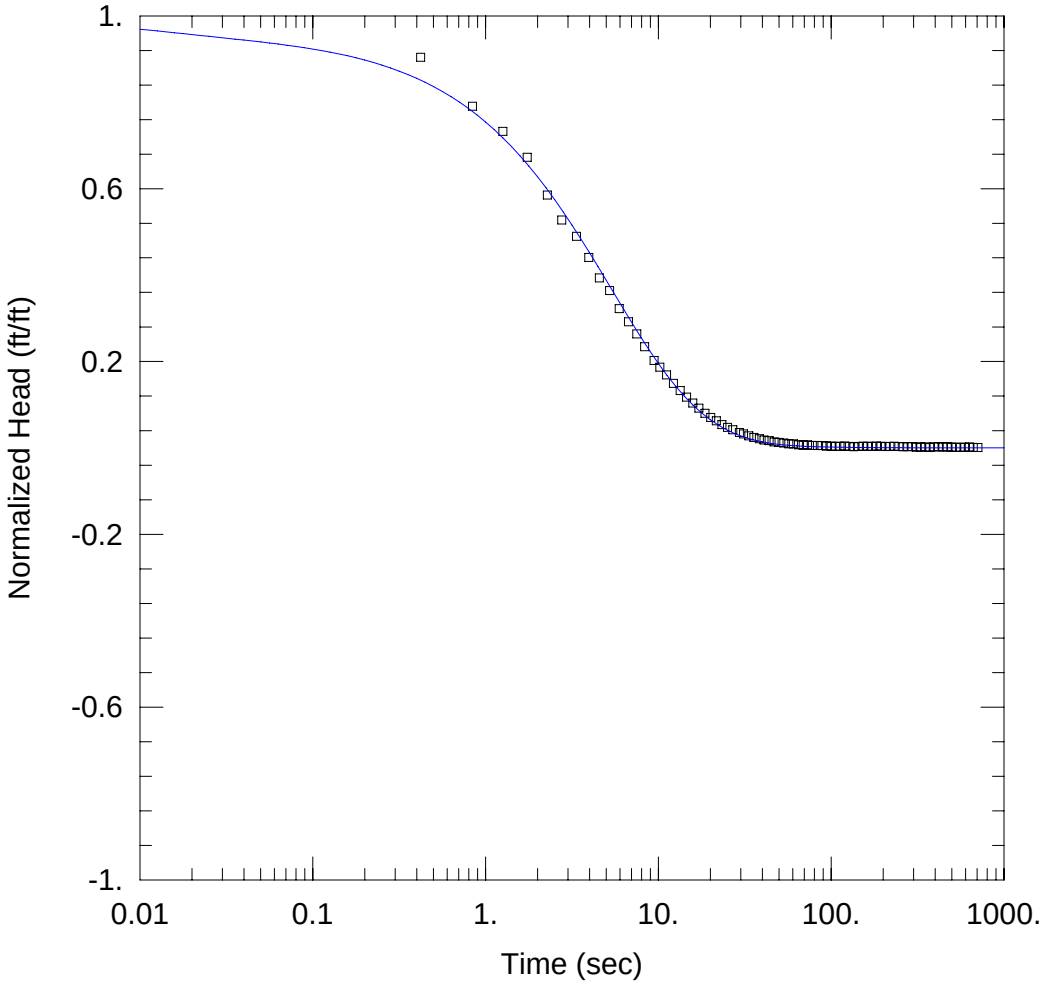
WELL DATA (KAFB106071)

Initial Displacement: 2.449 ft
Total Well Penetration Depth: 97.68 ft
Casing Radius: 0.198 ft
Static Water Column Height: 102.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 88.78 ft/day
y0 = 1.828 ft



KAFB106071P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106071P2-KGS.aqt
Date: 08/25/11 Time: 13:43:51

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106071
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 37. ft

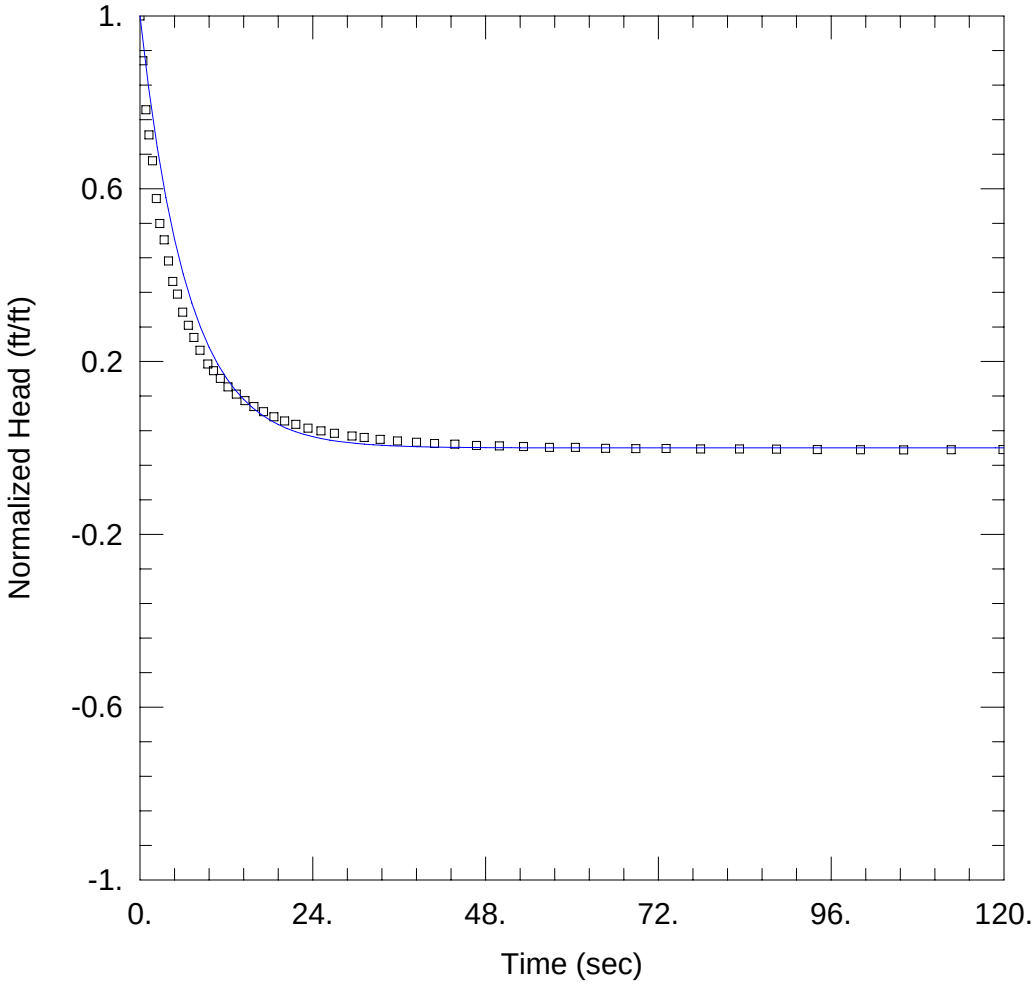
WELL DATA (KAFB106071)

Initial Displacement: 2.449 ft
Total Well Penetration Depth: 97.68 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 102.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 75.58 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 3.467E-5 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106071P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106071P2-SG.aqt
Date: 08/25/11 Time: 13:42:45

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106071
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 37. ft
Anisotropy Ratio (Kz/Kr): 0.1

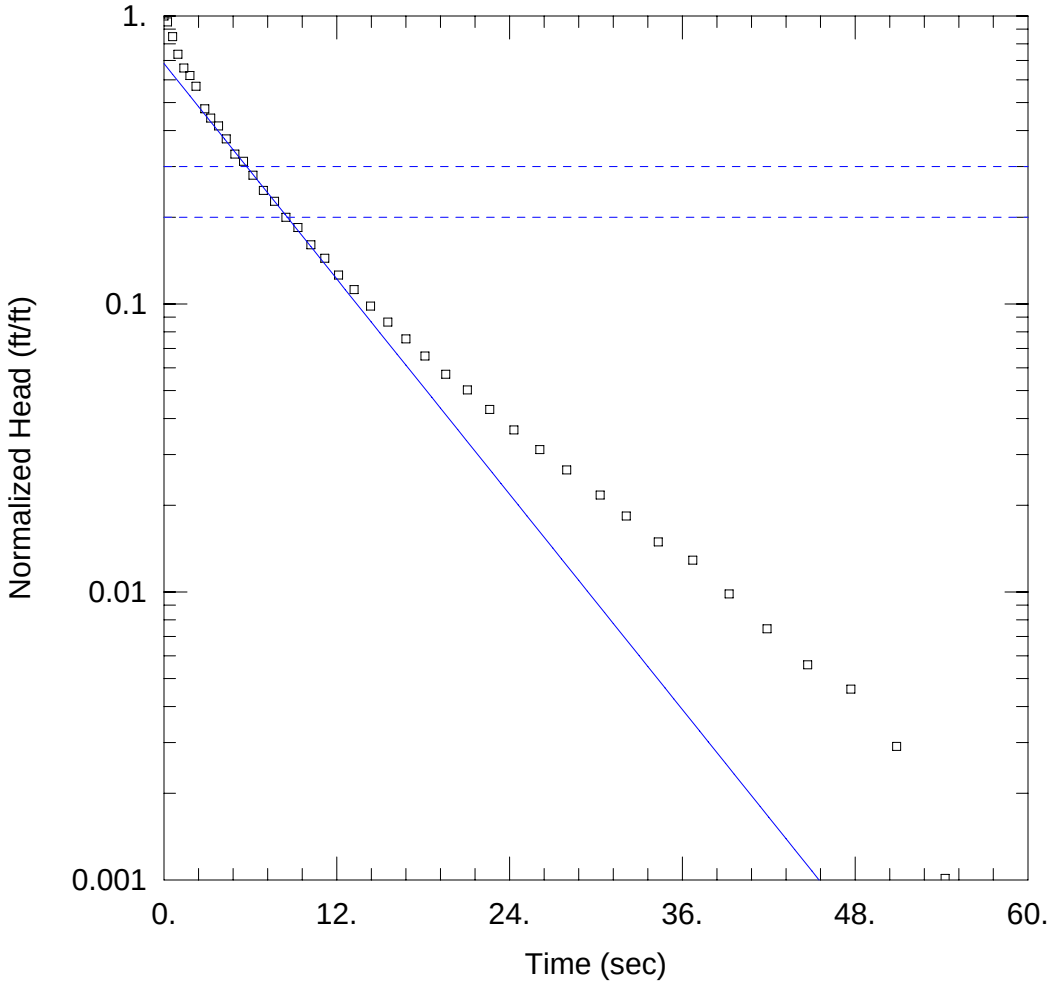
WELL DATA (KAFB106071)

Initial Displacement: 2.449 ft
Total Well Penetration Depth: 97.68 ft
Casing Radius: 0.198 ft
Static Water Column Height: 102.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 94.49 ft/day
Le = 1. ft



KAFB106071P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106071P3-BR.aqt
Date: 08/25/11 Time: 13:45:13

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106071
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 37. ft
Anisotropy Ratio (Kz/Kr): 0.1

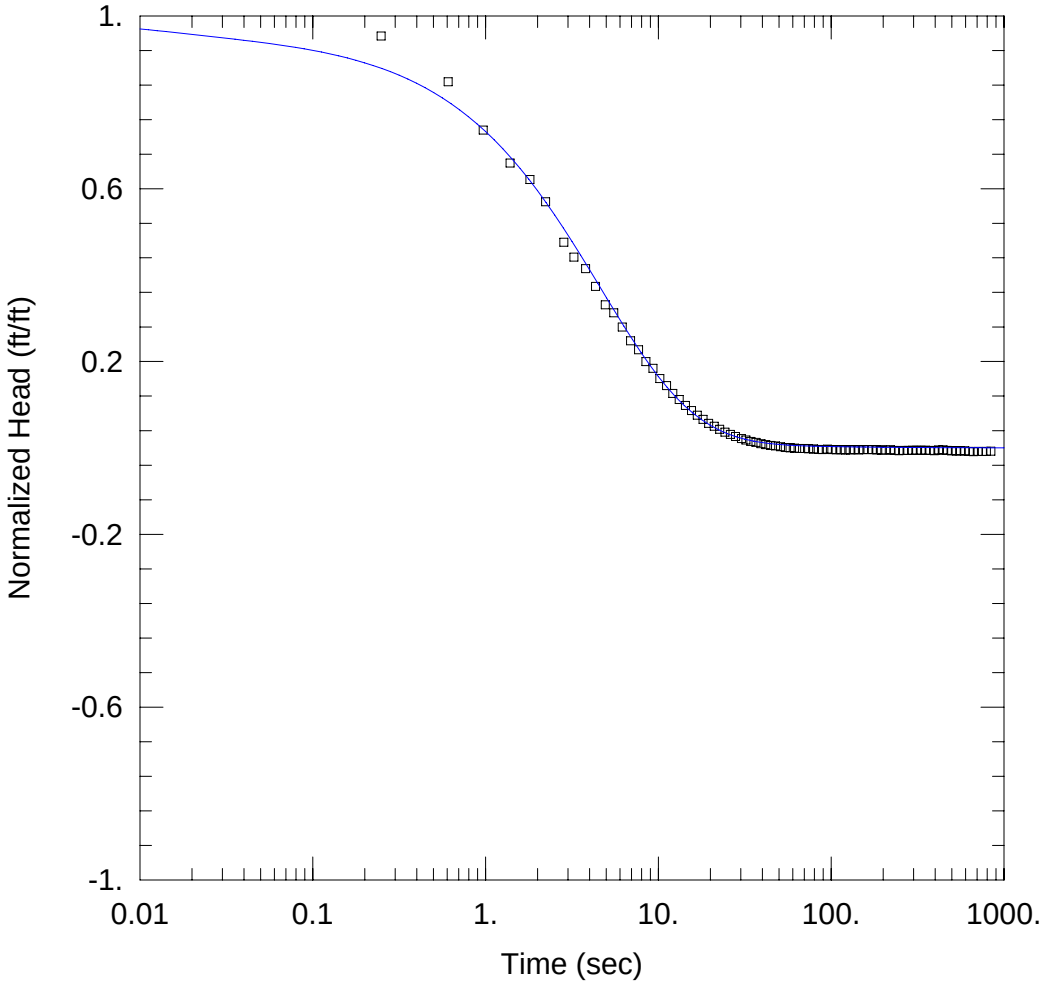
WELL DATA (KAFB106071)

Initial Displacement: 2.459 ft
Total Well Penetration Depth: 97.68 ft
Casing Radius: 0.198 ft
Static Water Column Height: 102.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 89.21 ft/day
y0 = 1.68 ft



KAFB106071P3

Data Set: C:\...\KAFB106071P3-KGS[2].aqt
Date: 08/25/11 Time: 13:54:13

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106071
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 37. ft

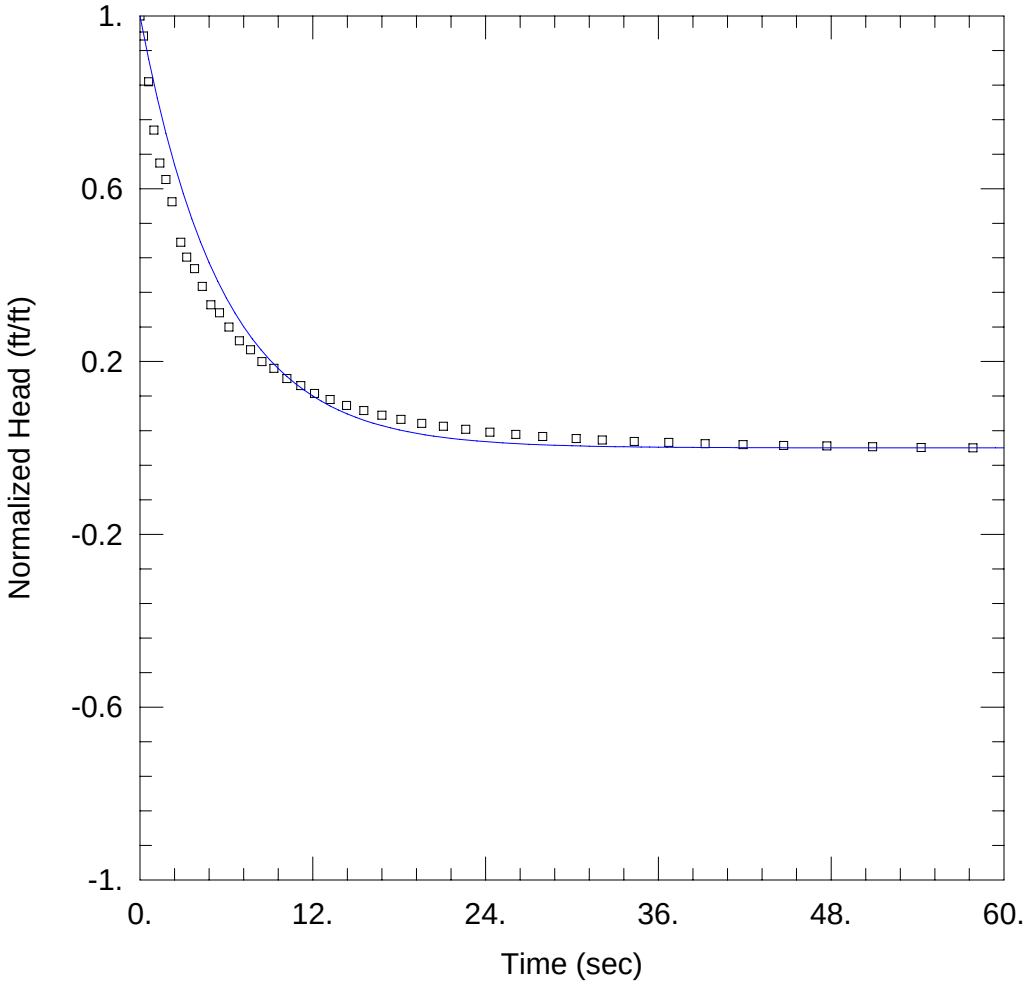
WELL DATA (KAFB106071)

Initial Displacement: 2.459 ft
Total Well Penetration Depth: 97.68 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 102.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 85.78 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 4.506E-5 ft^{-1}
Kr' = 173.3 ft/day
Kz/Kr' = 1.



KAFB106071P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106071P3-SG.aqt
Date: 08/25/11 Time: 13:46:53

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106071
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 37. ft
Anisotropy Ratio (Kz/Kr): 0.1

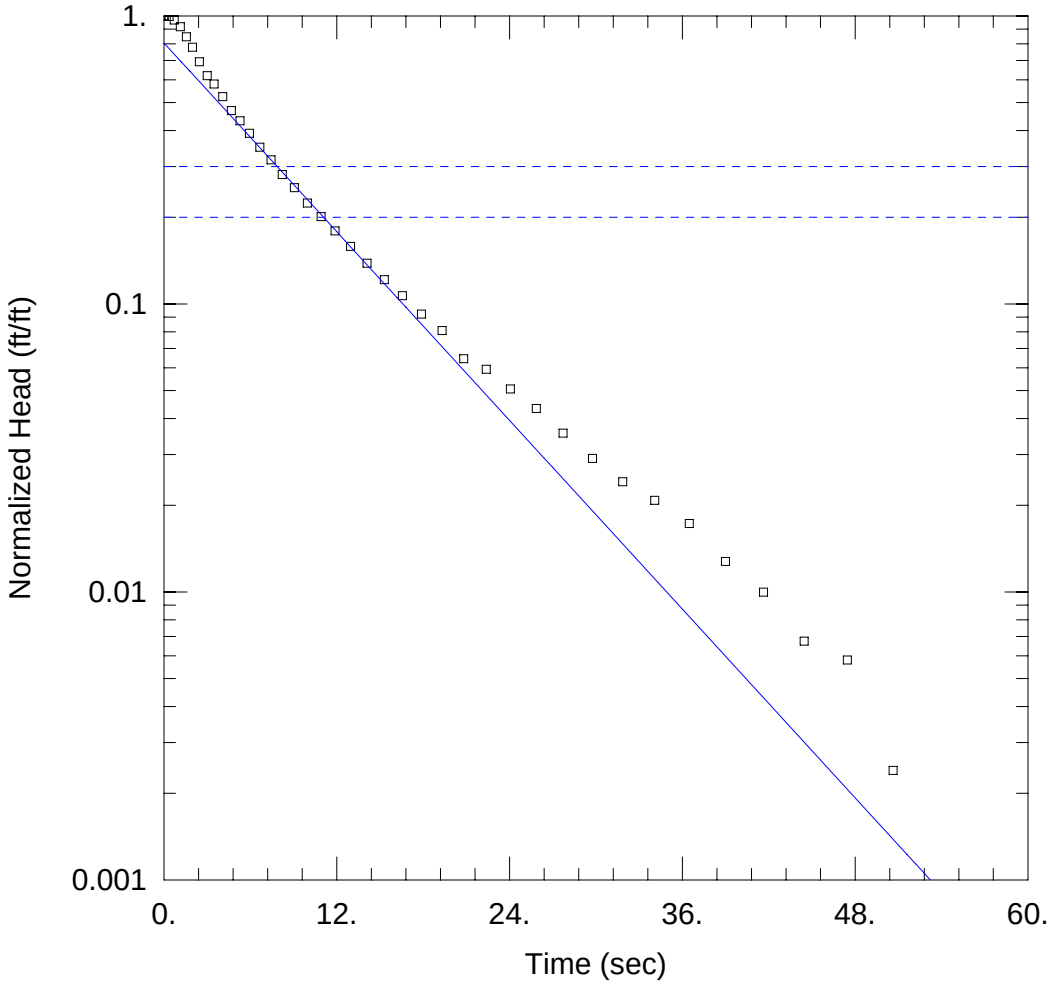
WELL DATA (KAFB106071)

Initial Displacement: 2.459 ft
Total Well Penetration Depth: 97.68 ft
Casing Radius: 0.198 ft
Static Water Column Height: 102.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 109.8 ft/day
Le = 1. ft



KAFB106071P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106071P4-BR.aqt
Date: 08/25/11 Time: 13:48:37

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106071
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 37. ft
Anisotropy Ratio (Kz/Kr): 0.1

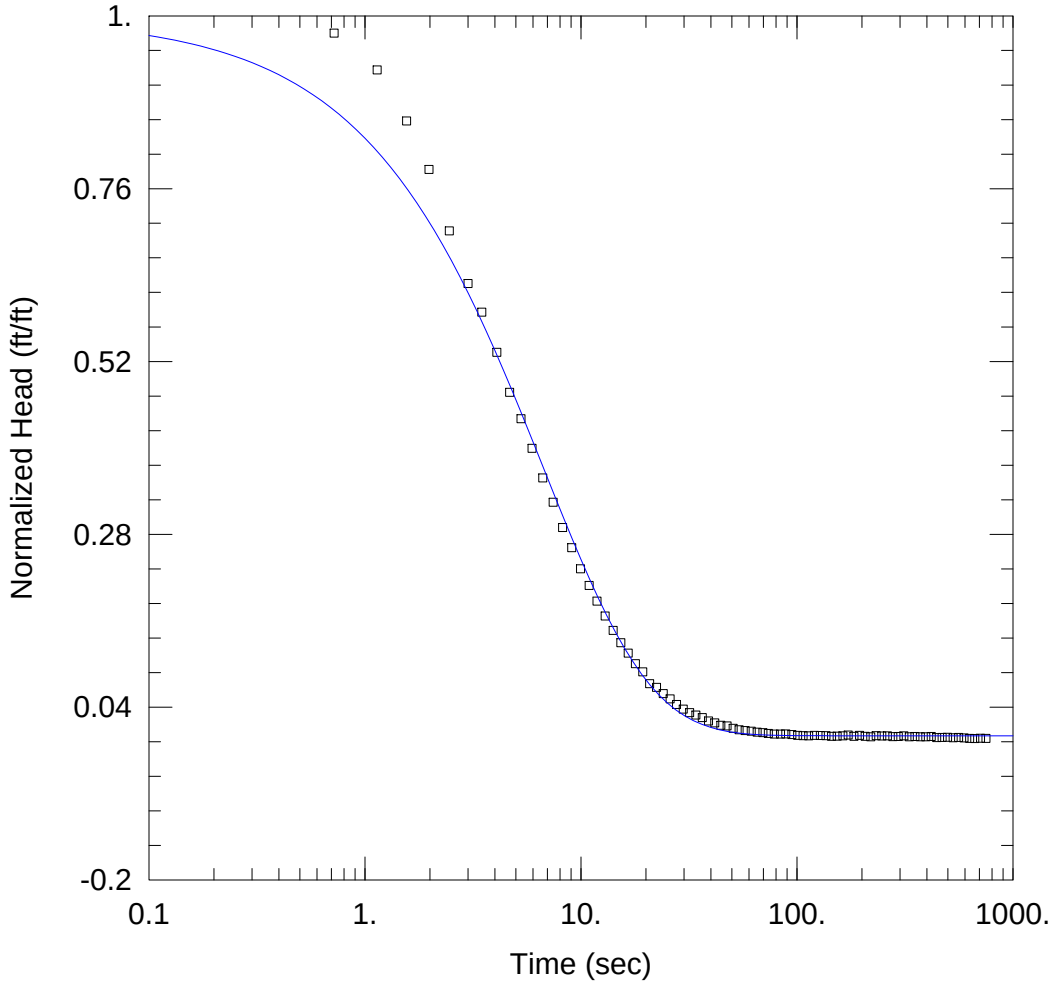
WELL DATA (KAFB106071)

Initial Displacement: 2.467 ft
Total Well Penetration Depth: 97.68 ft
Casing Radius: 0.198 ft
Static Water Column Height: 102.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 78.18 ft/day
y0 = 1.988 ft



KAFB106071P4

Data Set: C:\...\KAFB106071P4-KGS[1].aqt
Date: 08/27/11 Time: 14:57:02

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106071
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 37. ft

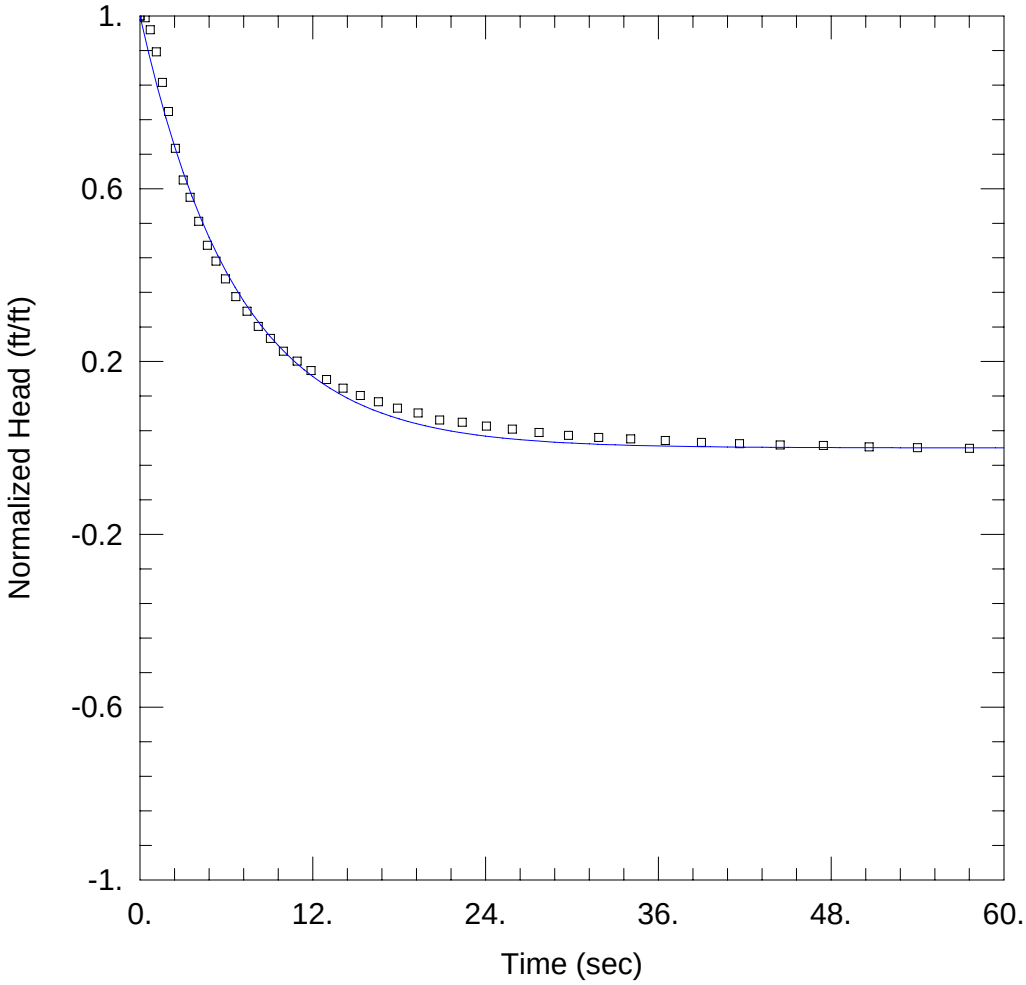
WELL DATA (KAFB106071)

Initial Displacement: 2.467 ft
Total Well Penetration Depth: 97.68 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 102.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 64.91 ft/day
Kz/Kr = 0.1
Ss' = 1.122E-5 ft^{-1}
Ss = 7.328E-6 ft^{-1}
Kr' = 280.4 ft/day
Kz/Kr' = 1.



KAFB106071P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106071P4-SG.aqt
Date: 08/25/11 Time: 13:49:51

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106071
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 37. ft
Anisotropy Ratio (Kz/Kr): 0.1

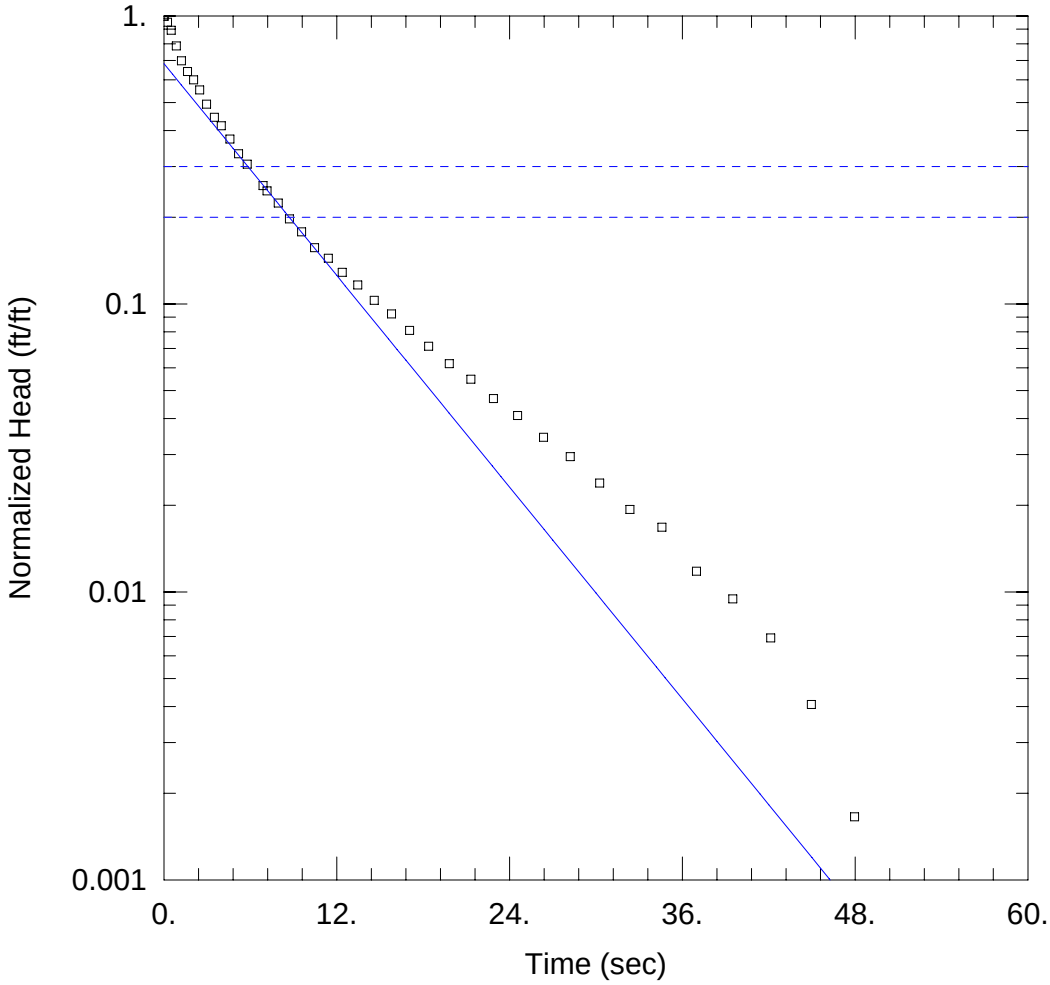
WELL DATA (KAFB106071)

Initial Displacement: 2.467 ft
Total Well Penetration Depth: 97.68 ft
Casing Radius: 0.198 ft
Static Water Column Height: 102.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 93.3 ft/day
Le = 1. ft



KAFB106073P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106073P1-BR.aqt
Date: 08/25/11 Time: 14:05:19

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106073
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.1

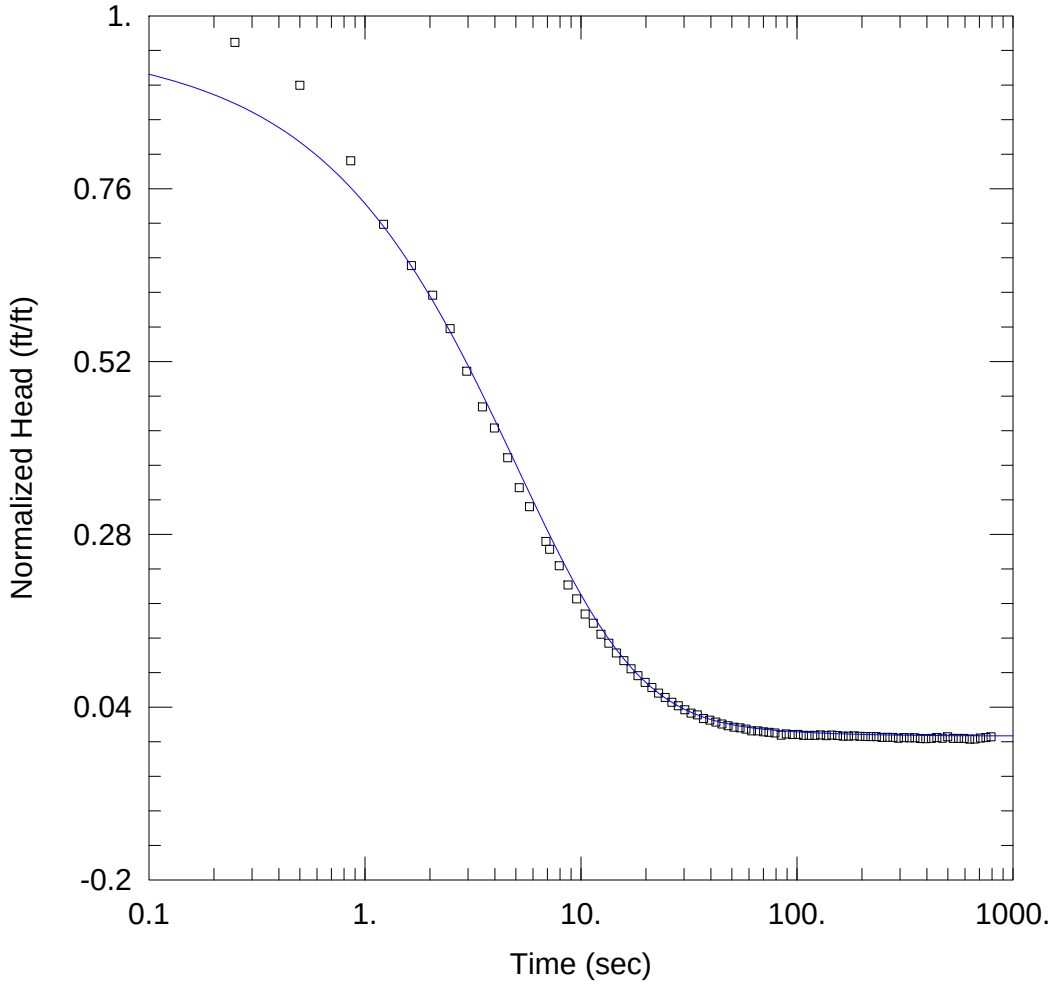
WELL DATA (KAFB106073)

Initial Displacement: 2.42 ft
Total Well Penetration Depth: 31.6 ft
Casing Radius: 0.198 ft
Static Water Column Height: 36.13 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 72.03 ft/day
y0 = 1.651 ft



KAFB106073P1

Data Set: C:\...\KAFB106073P1-KGS[1].aqt
Date: 08/27/11 Time: 18:33:57

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106073
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 33. ft

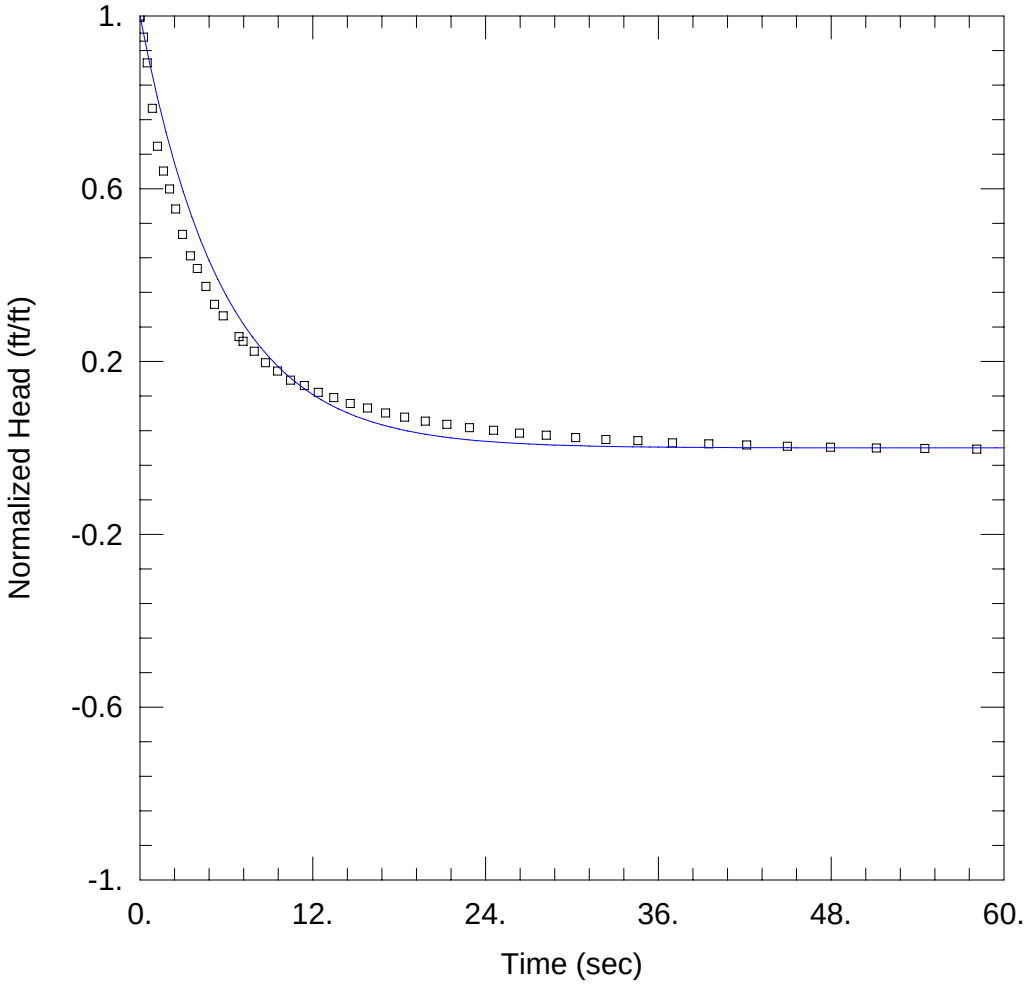
WELL DATA (KAFB106073)

Initial Displacement: 2.42 ft
Total Well Penetration Depth: 31.6 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 36.13 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 70.3 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 7.943E-5 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106073P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106073P1-SG.aqt
Date: 08/25/11 Time: 14:21:49

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106073
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.1

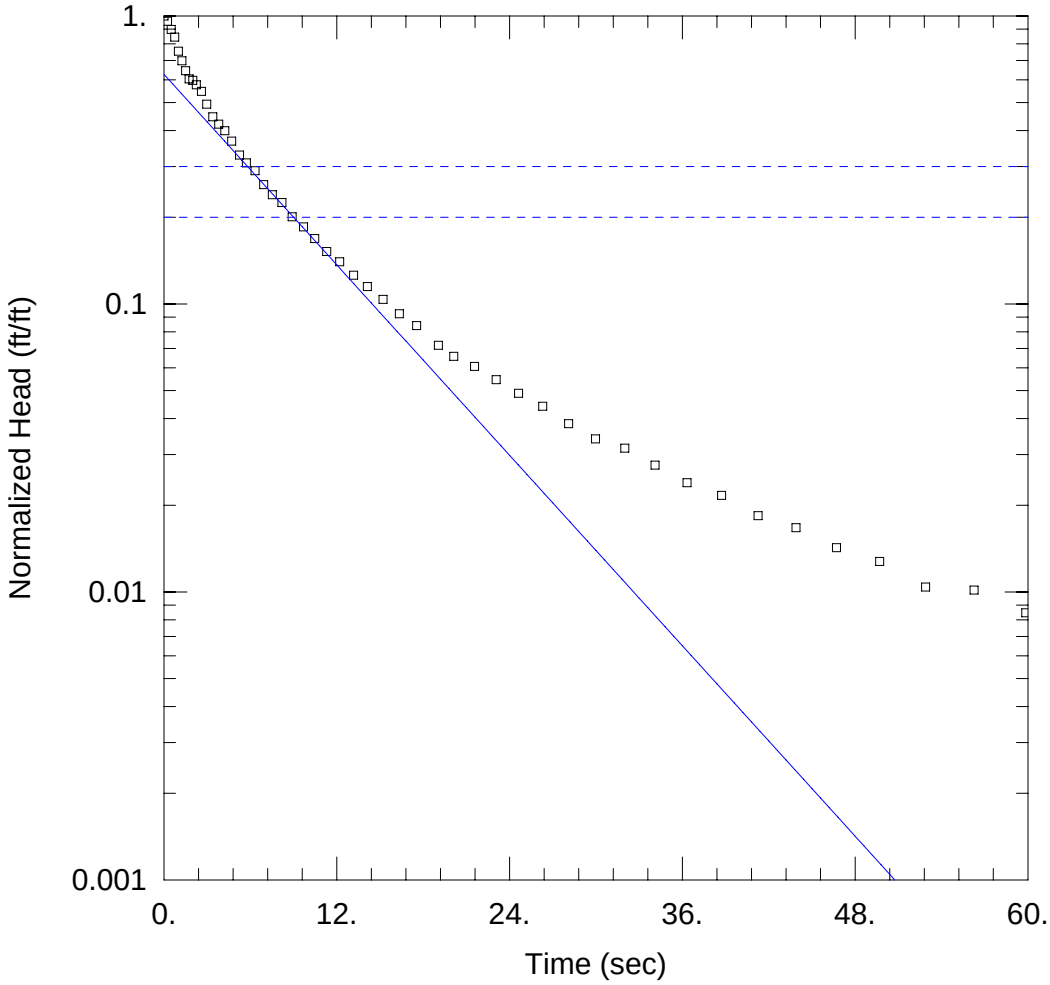
WELL DATA (KAFB106073)

Initial Displacement: 2.42 ft
Total Well Penetration Depth: 31.6 ft
Casing Radius: 0.198 ft
Static Water Column Height: 36.13 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 88.95 ft/day
Le = 1. ft



KAFB106073P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106073P2-BR.aqt
Date: 08/25/11 Time: 14:23:34

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106073
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.1

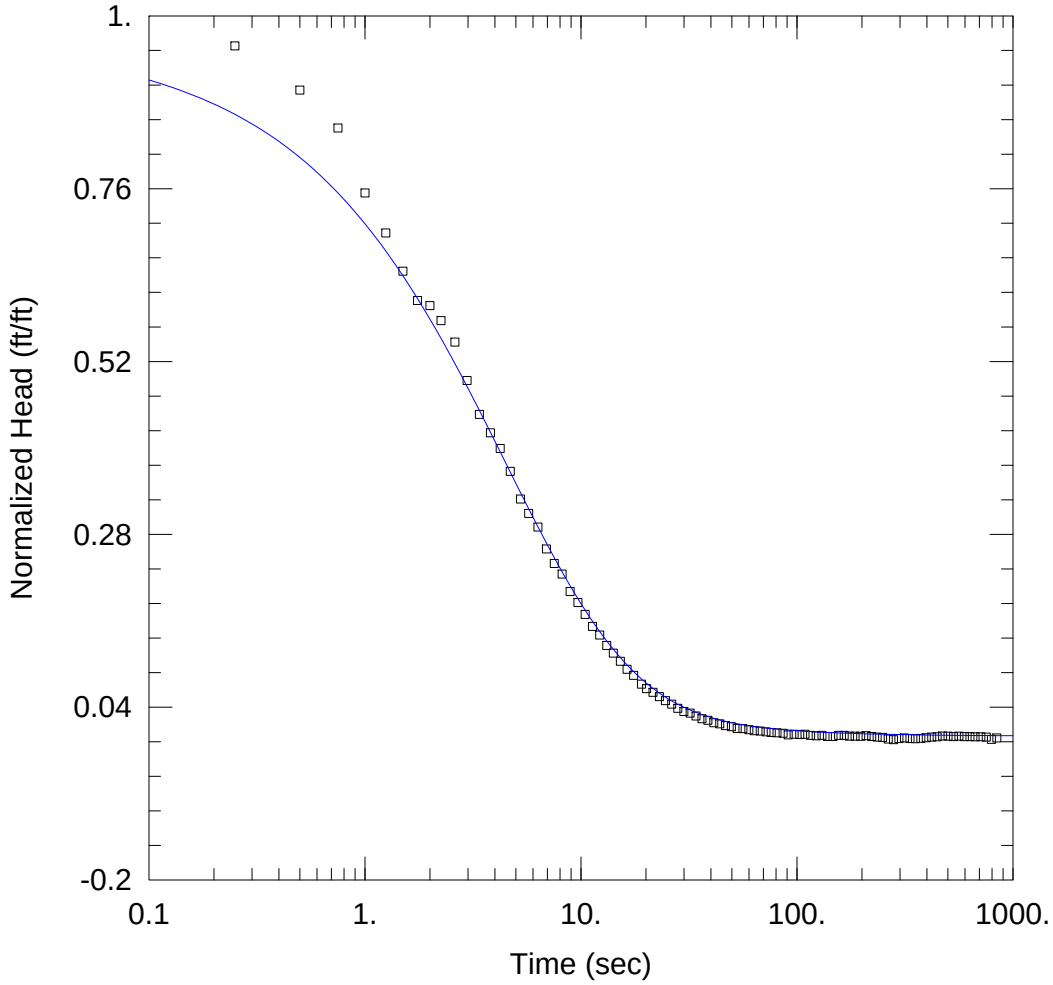
WELL DATA (KAFB106073)

Initial Displacement: 2.359 ft
Total Well Penetration Depth: 31.6 ft
Casing Radius: 0.198 ft
Static Water Column Height: 36.13 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 64.8 ft/day
y0 = 1.478 ft



KAFB106073P2

Data Set: C:\...\KAFB106073P2-KGS[1].aqt
Date: 08/27/11 Time: 18:36:42

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106073
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 33. ft

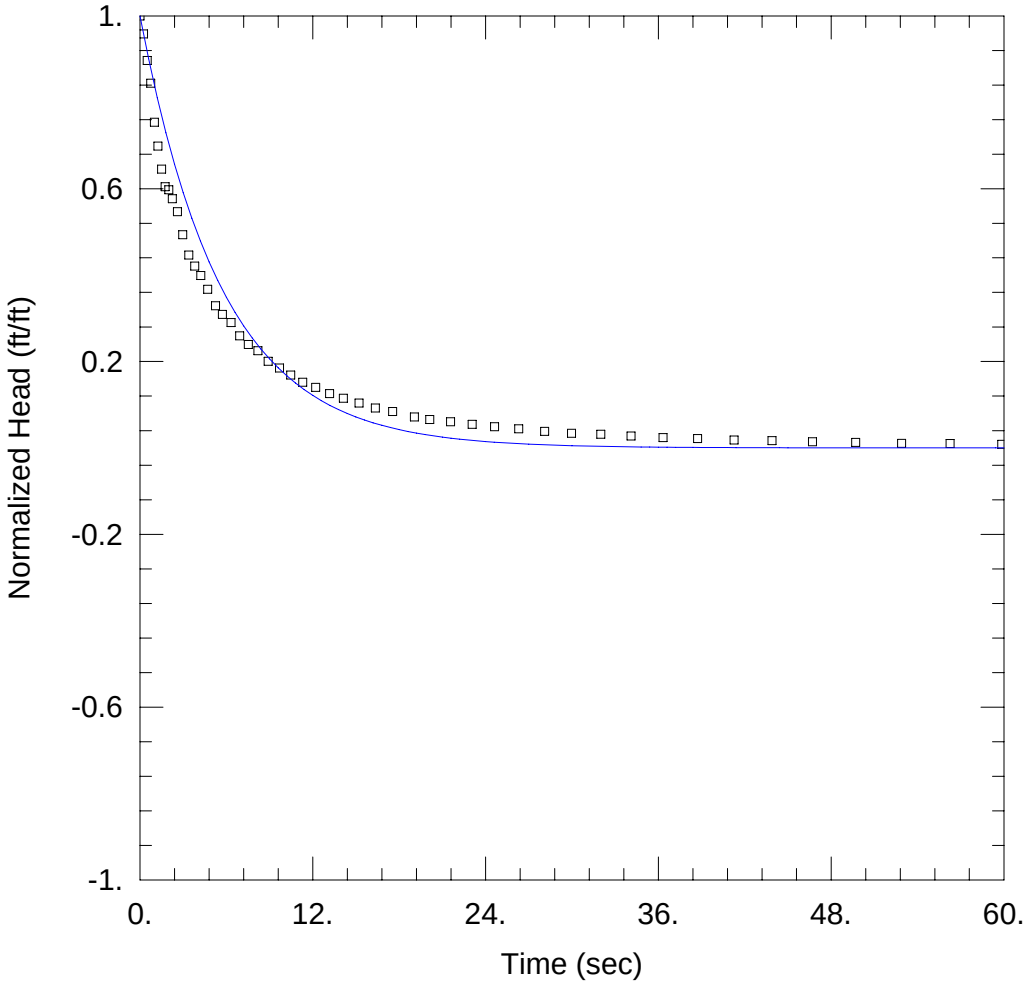
WELL DATA (KAFB106073)

Initial Displacement: 2.359 ft
Total Well Penetration Depth: 31.6 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 36.13 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 64.95 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.0002239 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106073P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106073P2-SG.aqt
Date: 08/25/11 Time: 14:24:20

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106073
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.1

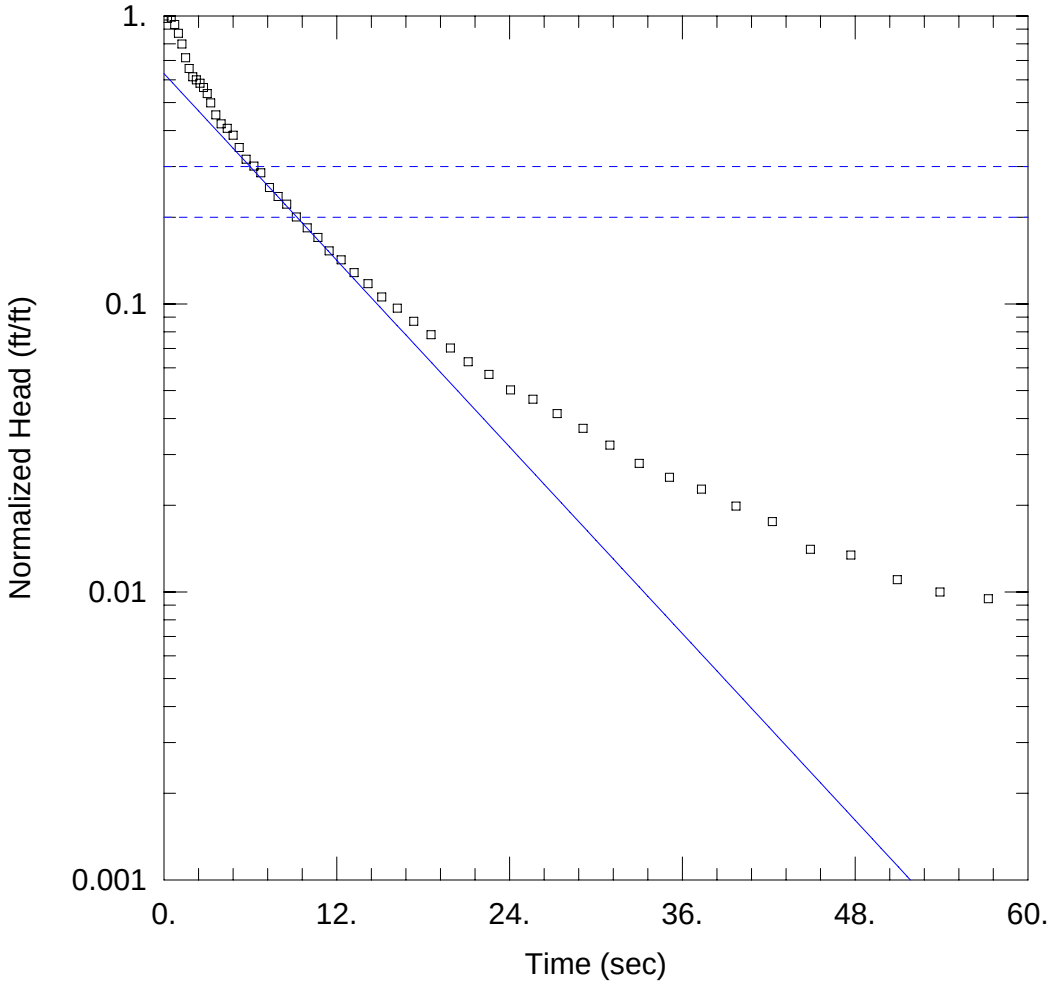
WELL DATA (KAFB106073)

Initial Displacement: 2.359 ft
Total Well Penetration Depth: 31.6 ft
Casing Radius: 0.198 ft
Static Water Column Height: 36.13 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 89.67 ft/day
Le = 1. ft



KAFB106073P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106073P3-BR.aqt
Date: 08/25/11 Time: 14:25:51

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106073
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.1

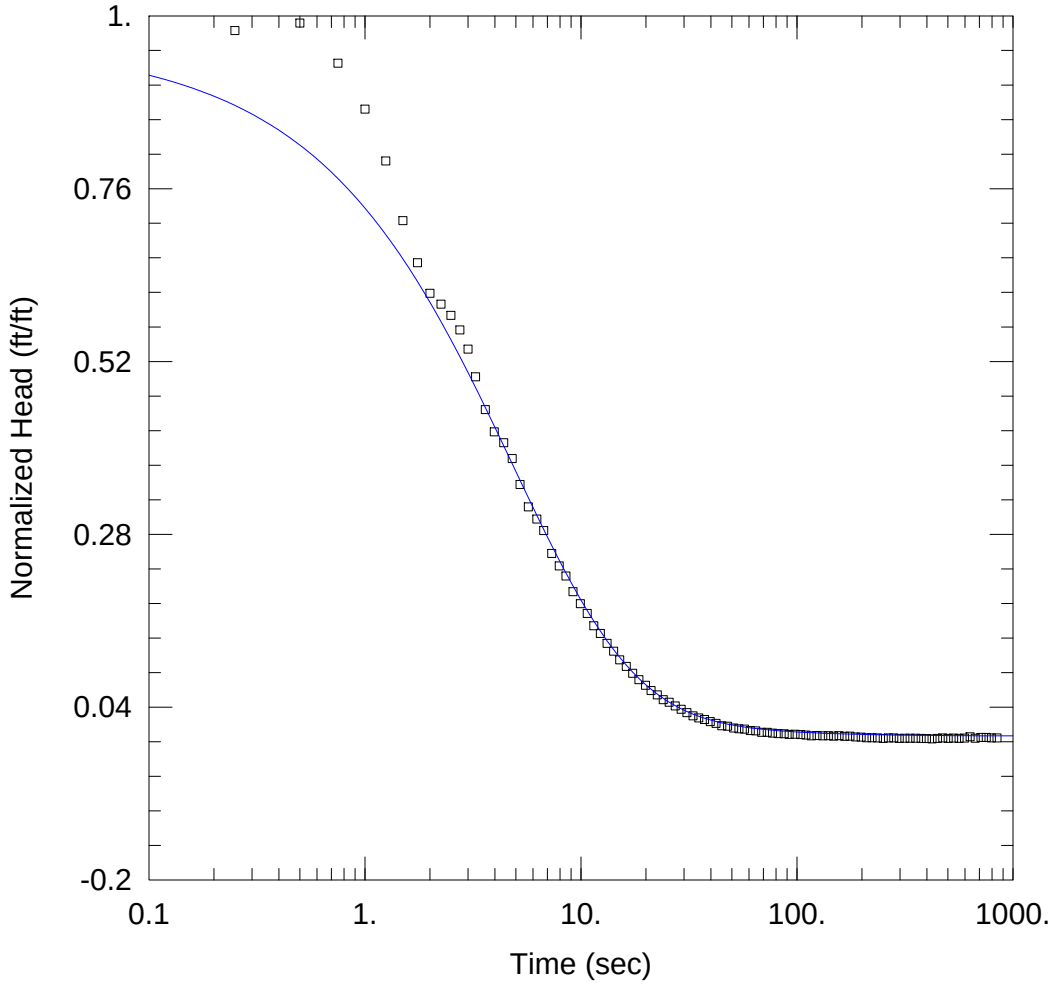
WELL DATA (KAFB106073)

Initial Displacement: 2.081 ft
Total Well Penetration Depth: 31.6 ft
Casing Radius: 0.198 ft
Static Water Column Height: 36.13 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 63.51 ft/day
y0 = 1.312 ft



KAFB106073P3

Data Set: C:\...\KAFB106073P3-KGS[1].aqt
Date: 08/27/11 Time: 18:38:30

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106073
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 33. ft

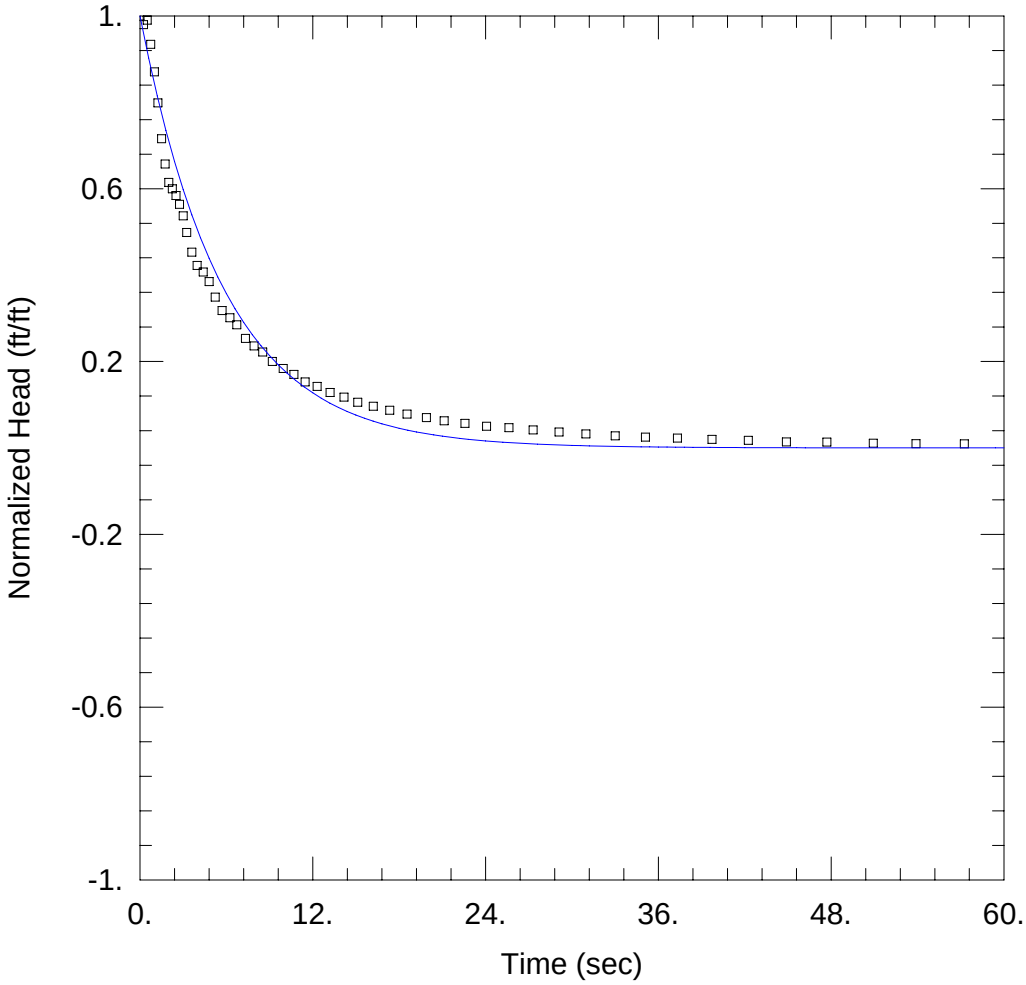
WELL DATA (KAFB106073)

Initial Displacement: 2.081 ft
Total Well Penetration Depth: 31.6 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 36.13 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 71.96 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 8.81E-5 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106073P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106073P3-SG.aqt
Date: 08/25/11 Time: 14:26:36

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106073
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.1

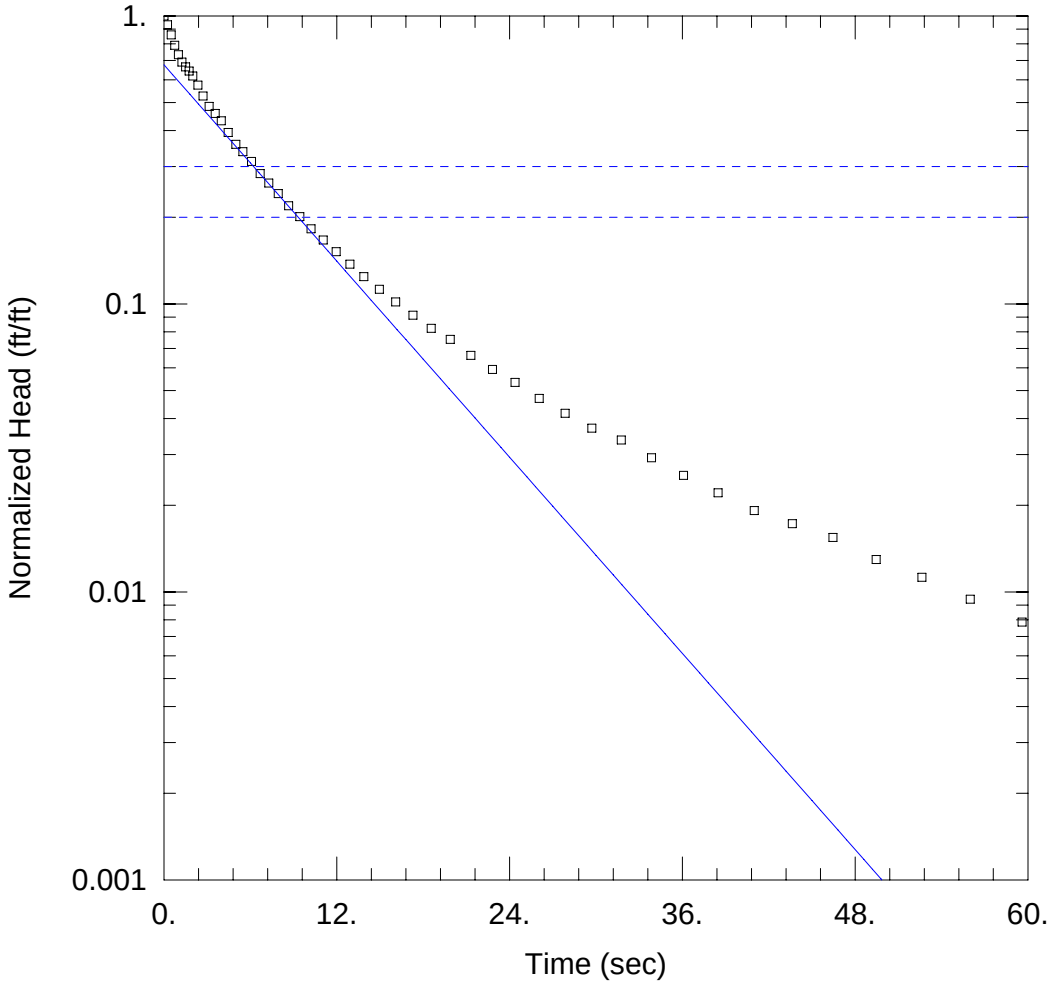
WELL DATA (KAFB106073)

Initial Displacement: 2.081 ft
Total Well Penetration Depth: 31.6 ft
Casing Radius: 0.198 ft
Static Water Column Height: 36.13 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 87.66 ft/day
Le = 1. ft



KAFB106073P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106073P4-BR.aqt
Date: 08/25/11 Time: 14:28:44

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106073
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.1

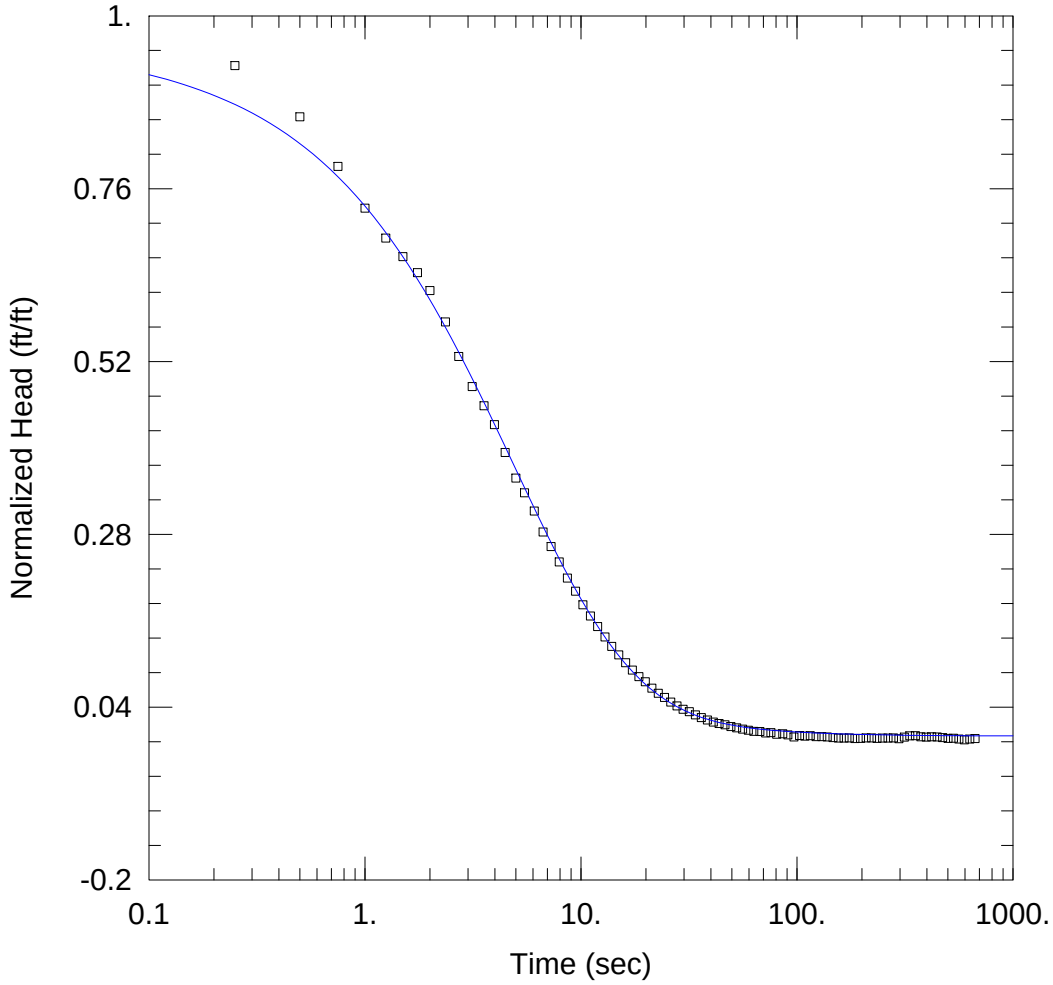
WELL DATA (KAFB106073)

Initial Displacement: 2.53 ft
Total Well Penetration Depth: 31.6 ft
Casing Radius: 0.198 ft
Static Water Column Height: 36.13 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 66.75 ft/day
y0 = 1.711 ft



KAFB106073P4

Data Set: C:\...\KAFB106073P4-KGS[1].aqt
Date: 08/27/11 Time: 18:42:35

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106073
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 33. ft

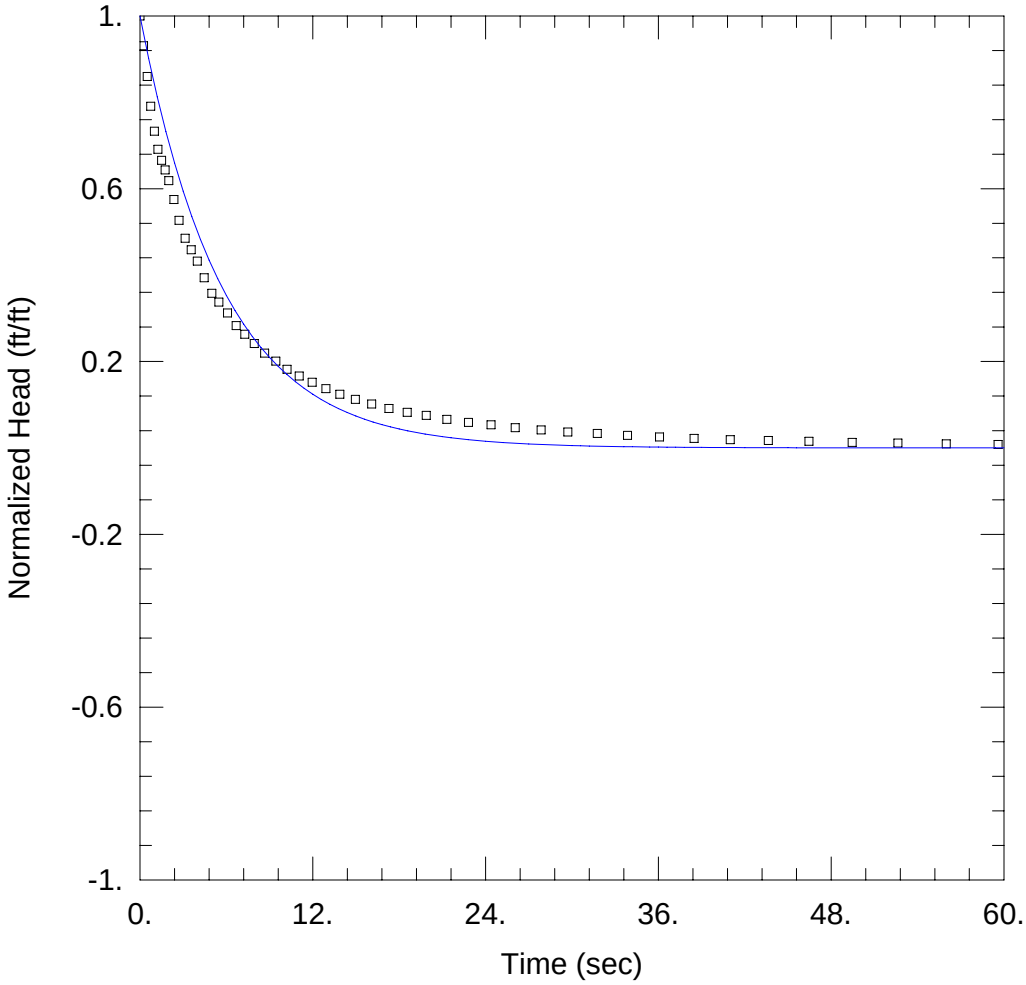
WELL DATA (KAFB106073)

Initial Displacement: 2.53 ft
Total Well Penetration Depth: 31.6 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 36.13 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 72.35 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 7.943E-5 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106073P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106073P4-SG.aqt
Date: 08/25/11 Time: 14:29:24

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106073
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.1

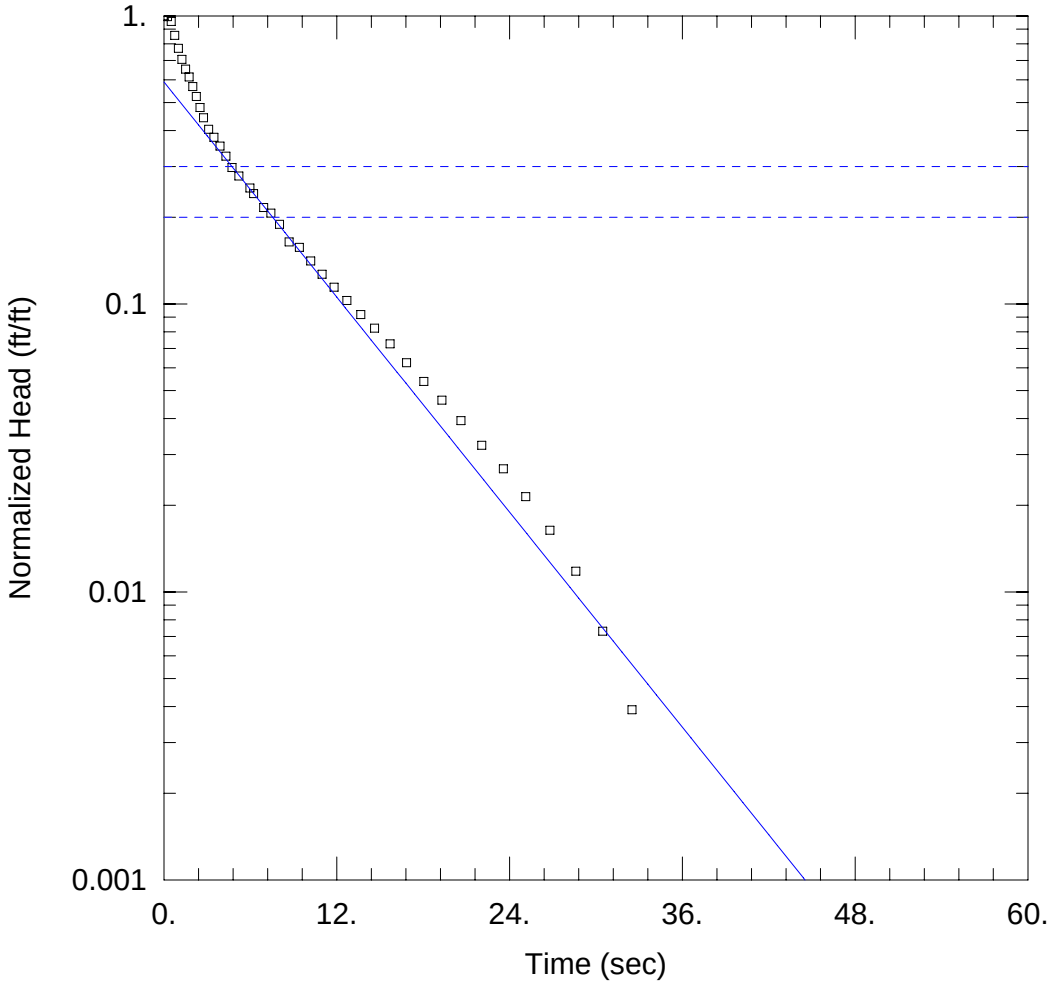
WELL DATA (KAFB106073)

Initial Displacement: 2.53 ft
Total Well Penetration Depth: 31.6 ft
Casing Radius: 0.198 ft
Static Water Column Height: 36.13 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 88.68 ft/day
Le = 1. ft



KAFB106074P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106074P1-BR.aqt
Date: 08/25/11 Time: 14:54:04

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106074
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 56. ft
Anisotropy Ratio (Kz/Kr): 0.1

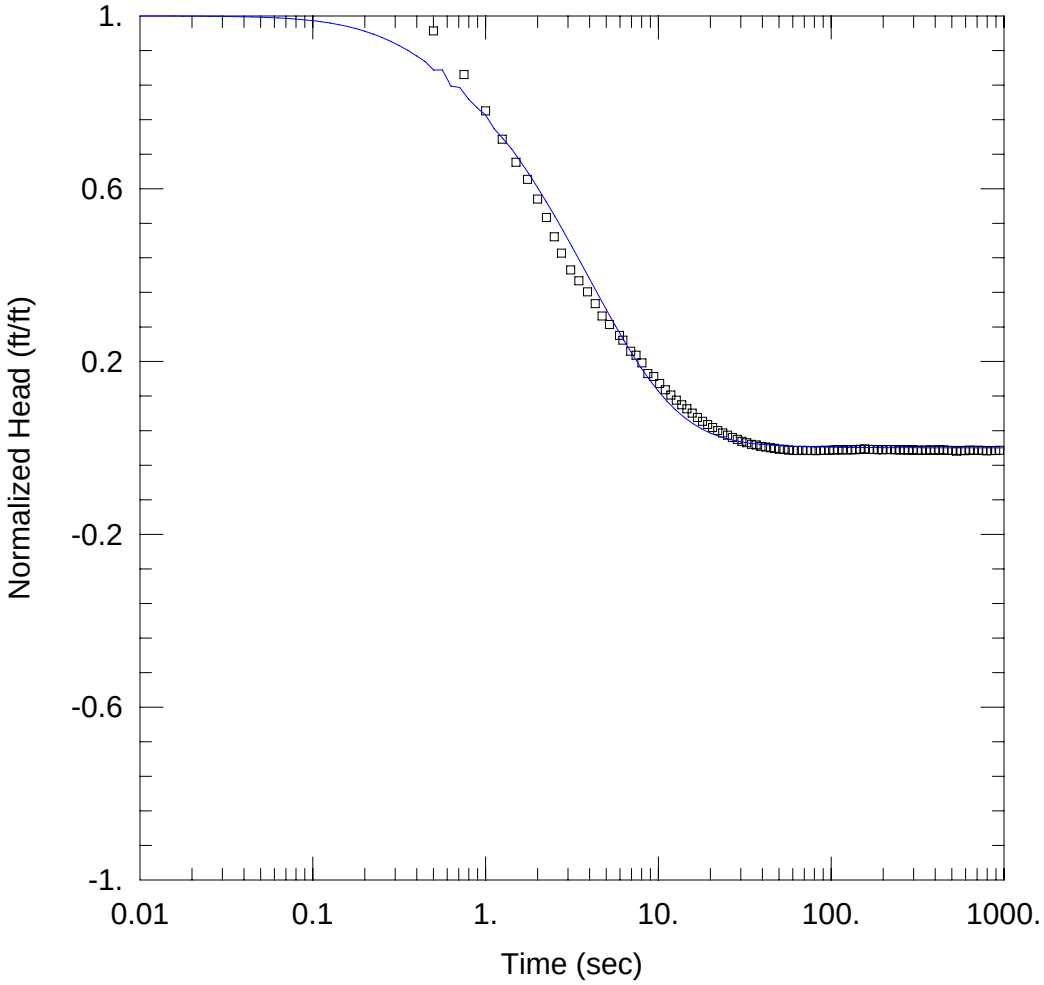
WELL DATA (KAFB106074)

Initial Displacement: 2.513 ft
Total Well Penetration Depth: 100.1 ft
Casing Radius: 0.198 ft
Static Water Column Height: 104.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 89.35 ft/day
y0 = 1.482 ft



KAFB106074P1

Data Set: C:\...\KAFB106074P1-BZ[1].aqt
Date: 08/25/11 Time: 15:02:55

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106074
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 56. ft
Anisotropy Ratio (Kz/Kr): 0.01259

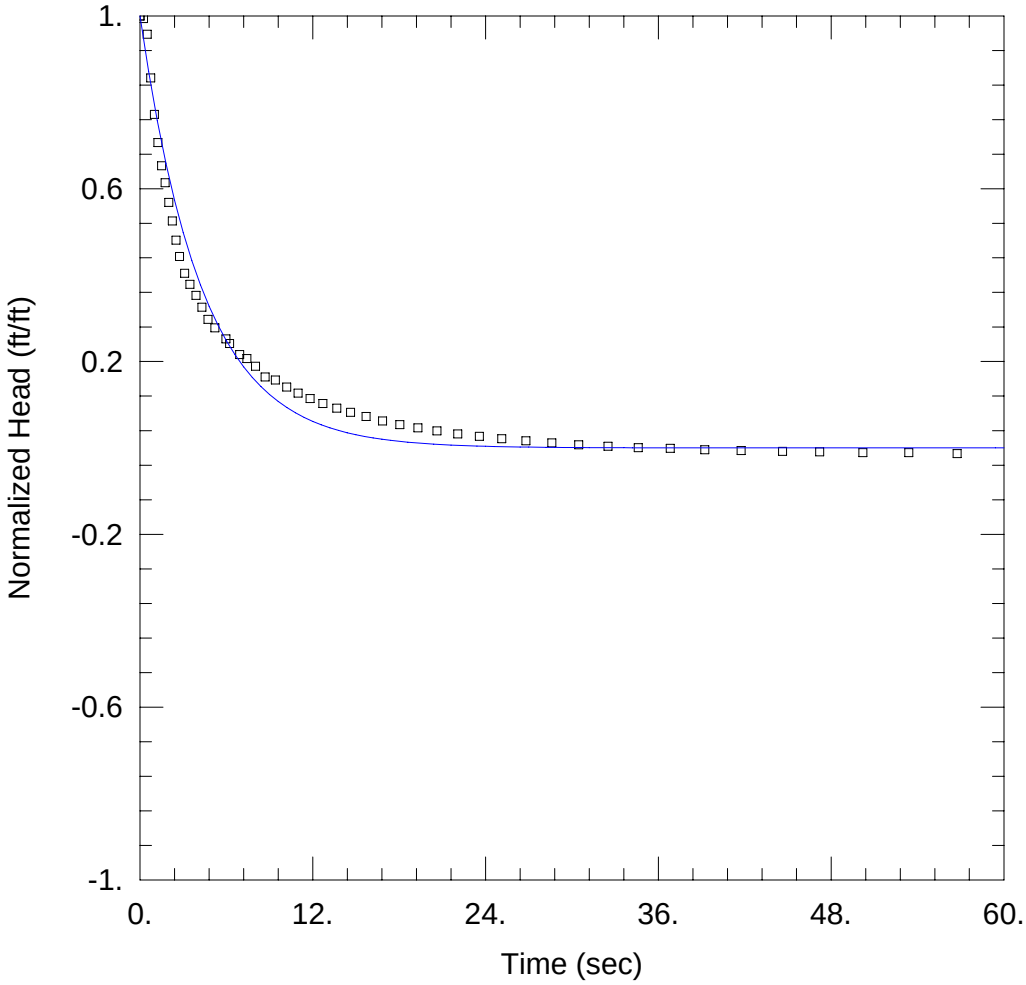
WELL DATA (KAFB106074)

Initial Displacement: 2.513 ft
Total Well Penetration Depth: 100.1 ft
Casing Radius: 0.198 ft
Static Water Column Height: 104.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 129.1 ft/day
Kz/Kr = 0.01259
Ss = 1.0E-5 ft^{-1}
Le = 12.02 ft



KAFB106074P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106074P1-SG.aqt
Date: 08/25/11 Time: 14:54:56

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106074
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 56. ft
Anisotropy Ratio (Kz/Kr): 0.1

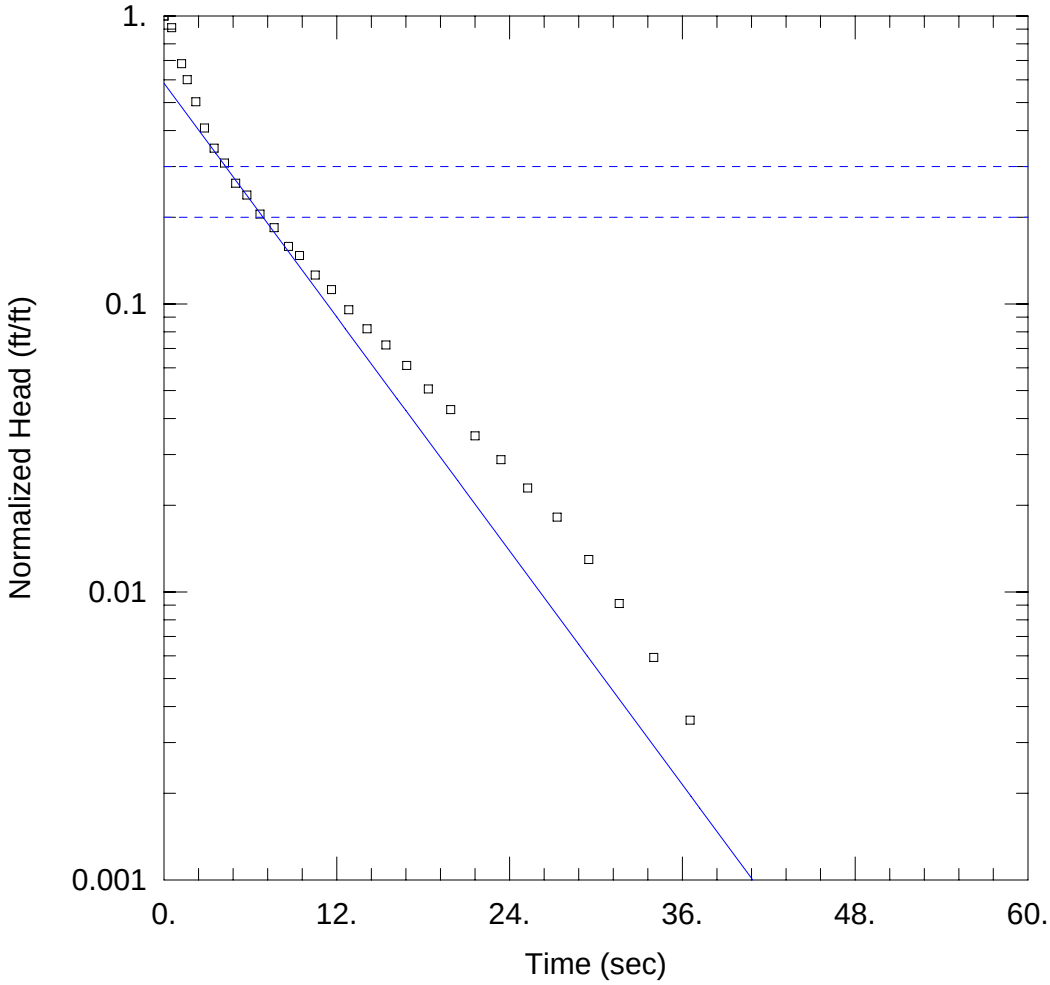
WELL DATA (KAFB106074)

Initial Displacement: 2.513 ft
Total Well Penetration Depth: 100.1 ft
Casing Radius: 0.198 ft
Static Water Column Height: 104.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 145. ft/day
Le = 1. ft



KAFB106074P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106074P2-BR.aqt
Date: 08/25/11 Time: 14:56:13

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106074
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 56. ft
Anisotropy Ratio (Kz/Kr): 0.1

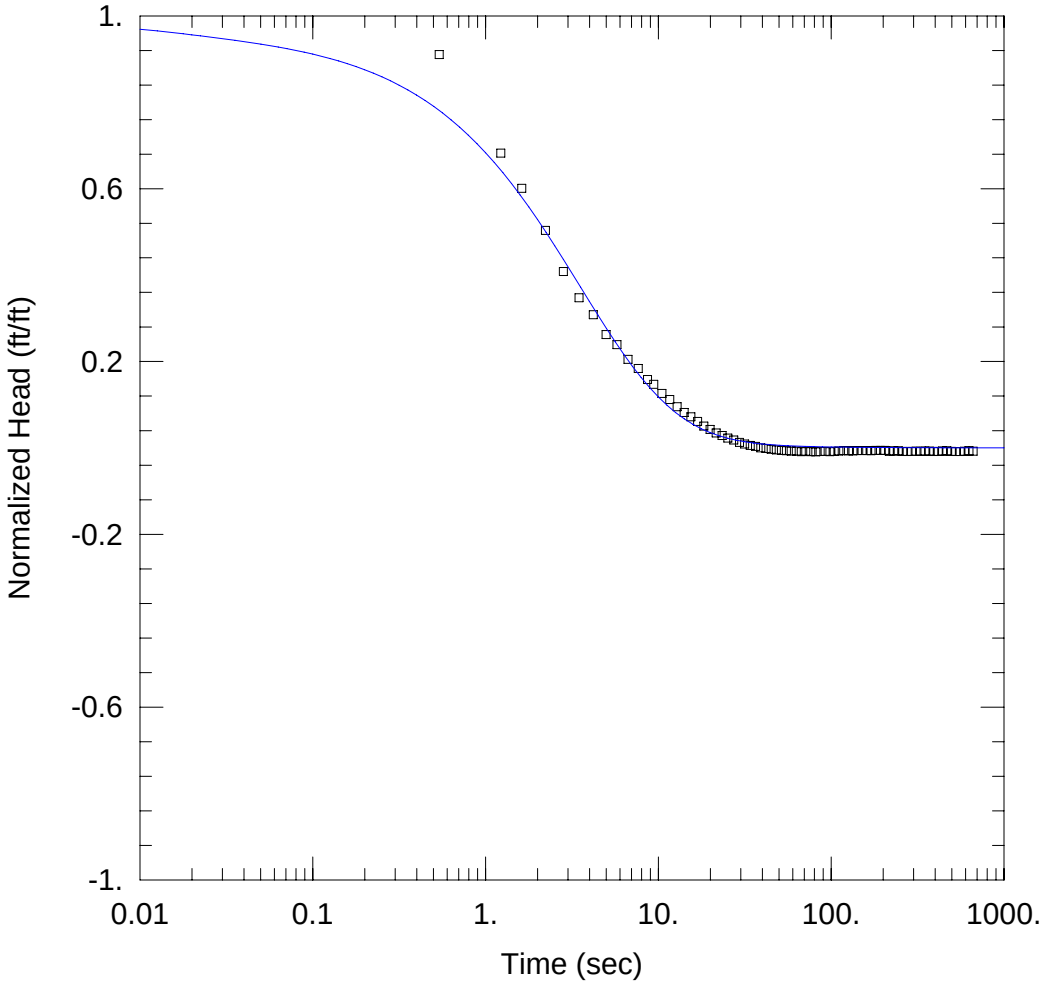
WELL DATA (KAFB106074)

Initial Displacement: 2.532 ft
Total Well Penetration Depth: 100.1 ft
Casing Radius: 0.198 ft
Static Water Column Height: 104.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 97.14 ft/day
y0 = 1.478 ft



KAFB106074P2

Data Set: C:\...\KAFB106074P2-KSG[1].aqt
Date: 08/25/11 Time: 15:03:53

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106074
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 56. ft

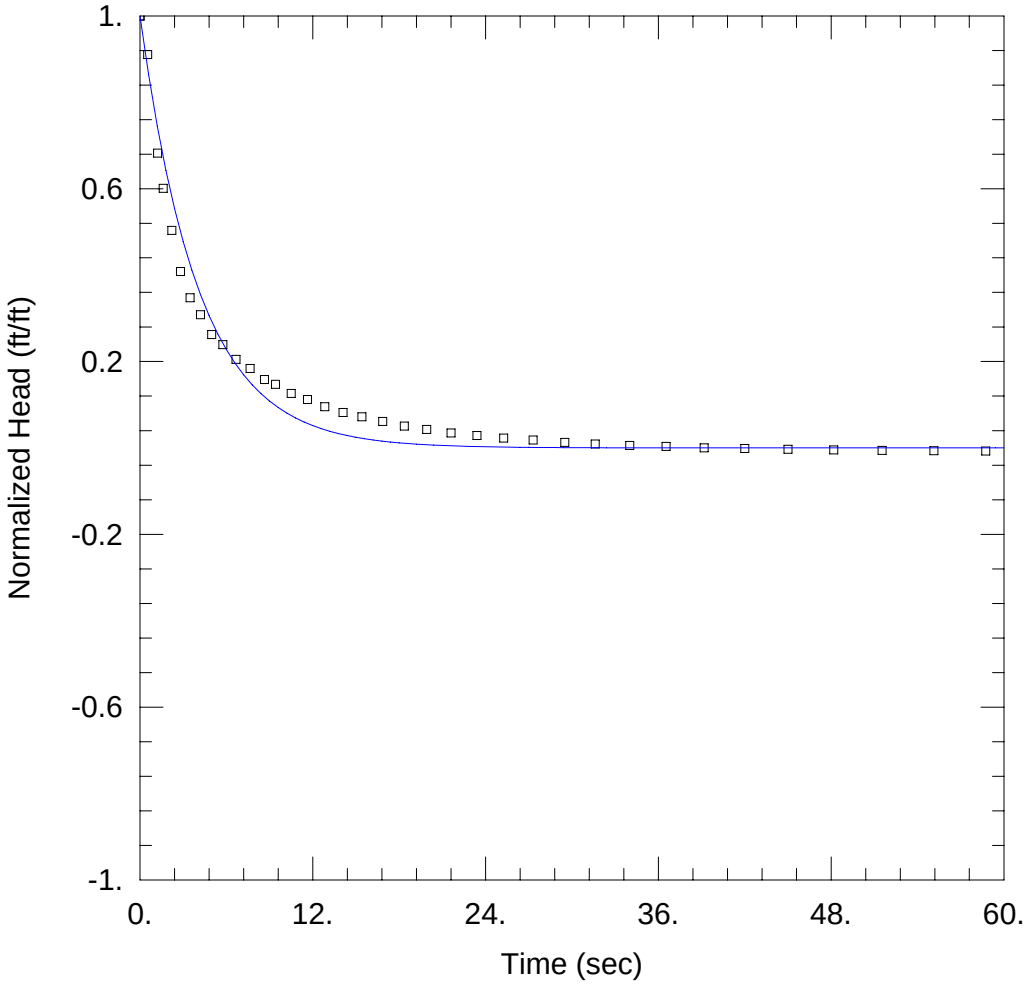
WELL DATA (KAFB106074)

Initial Displacement: 2.532 ft
Total Well Penetration Depth: 100.1 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 104.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 106.5 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 7.943E-5 ft^{-1}
Kr' = 178.2 ft/day
Kz/Kr' = 1.



KAFB106074P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106074P2-SG.aqt
Date: 08/25/11 Time: 14:57:25

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106074
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 56. ft
Anisotropy Ratio (Kz/Kr): 0.1

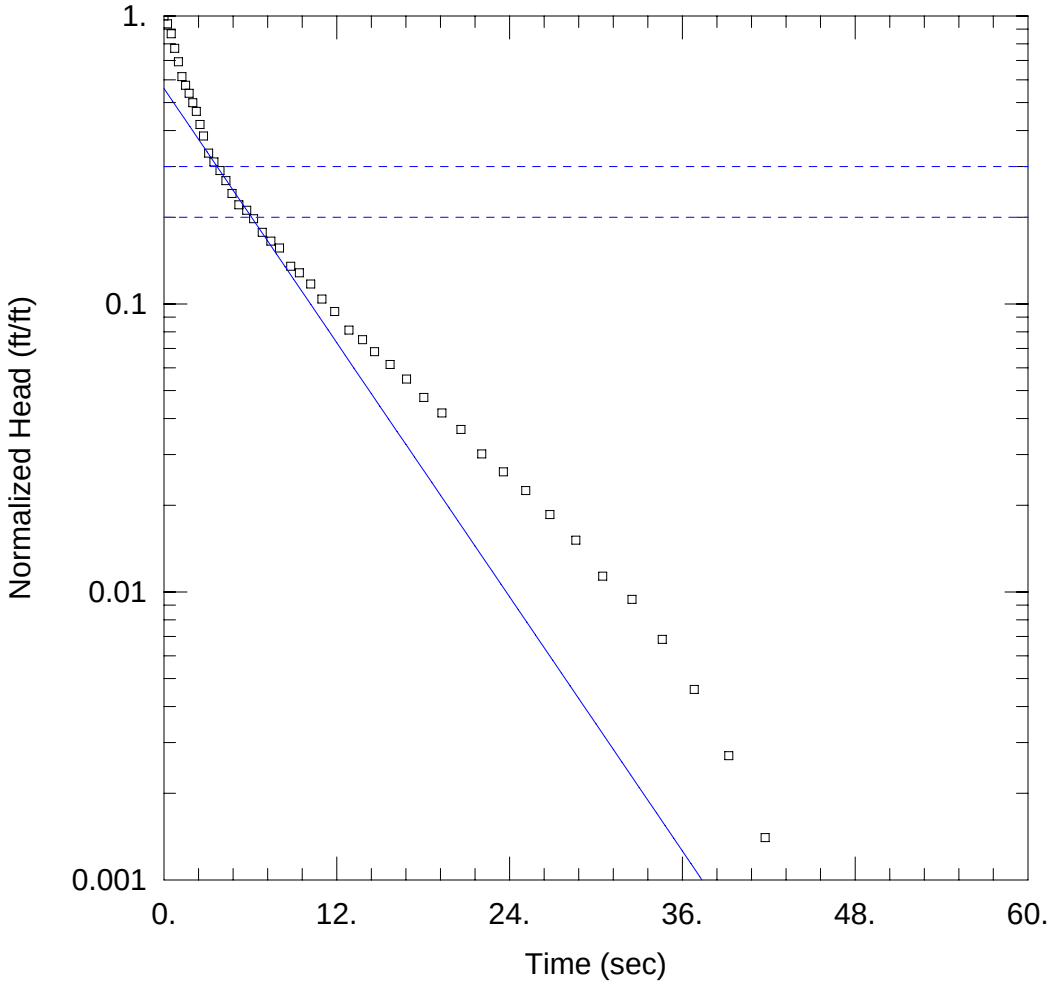
WELL DATA (KAFB106074)

Initial Displacement: 2.532 ft
Total Well Penetration Depth: 100.1 ft
Casing Radius: 0.198 ft
Static Water Column Height: 104.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 154. ft/day
Le = 1. ft



KAFB106074P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106074P3-BR.aqt
Date: 08/25/11 Time: 14:58:10

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106074
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 56. ft
Anisotropy Ratio (Kz/Kr): 0.1

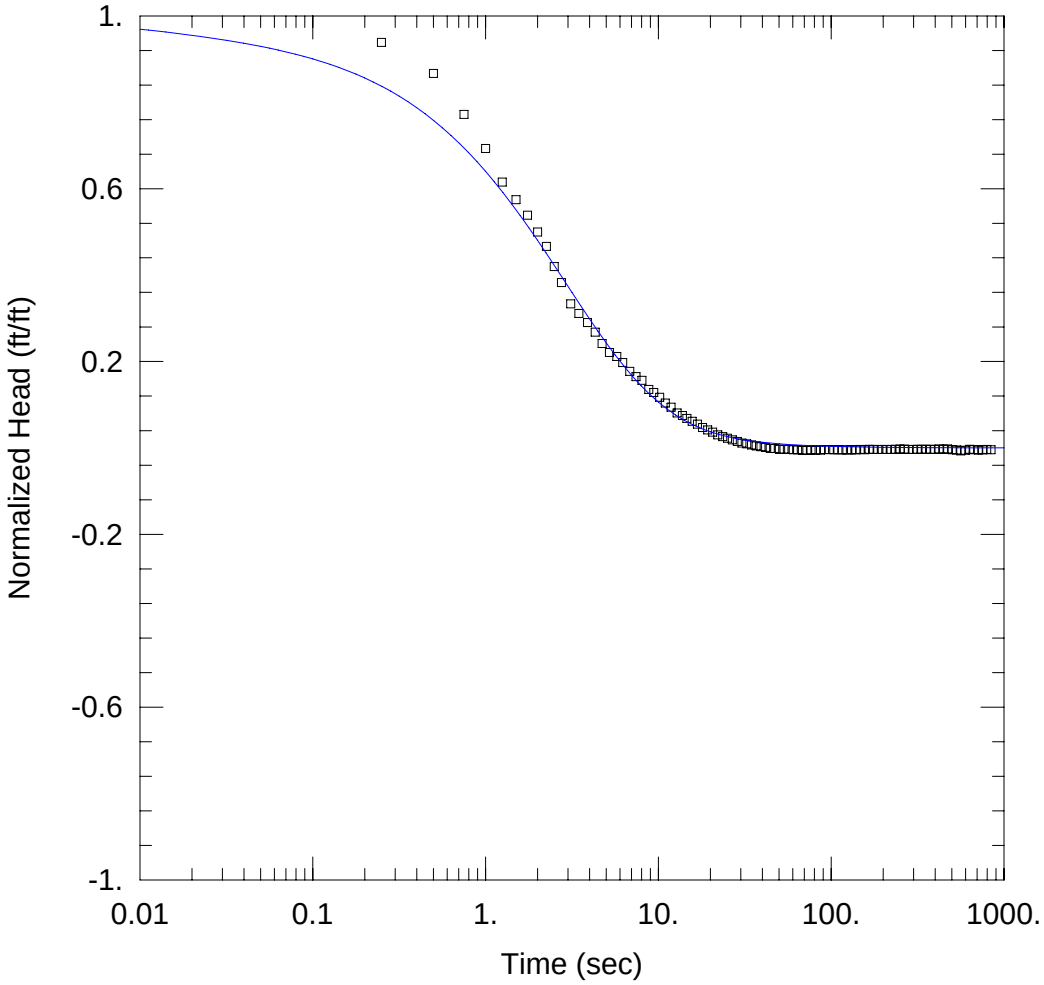
WELL DATA (KAFB106074)

Initial Displacement: 2.511 ft
Total Well Penetration Depth: 100.1 ft
Casing Radius: 0.198 ft
Static Water Column Height: 104.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 105.6 ft/day
y0 = 1.405 ft



KAFB106074P3

Data Set: C:\...\KAFB106074P3-KGS[1].aqt
Date: 08/25/11 Time: 15:04:36

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106074
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 56. ft

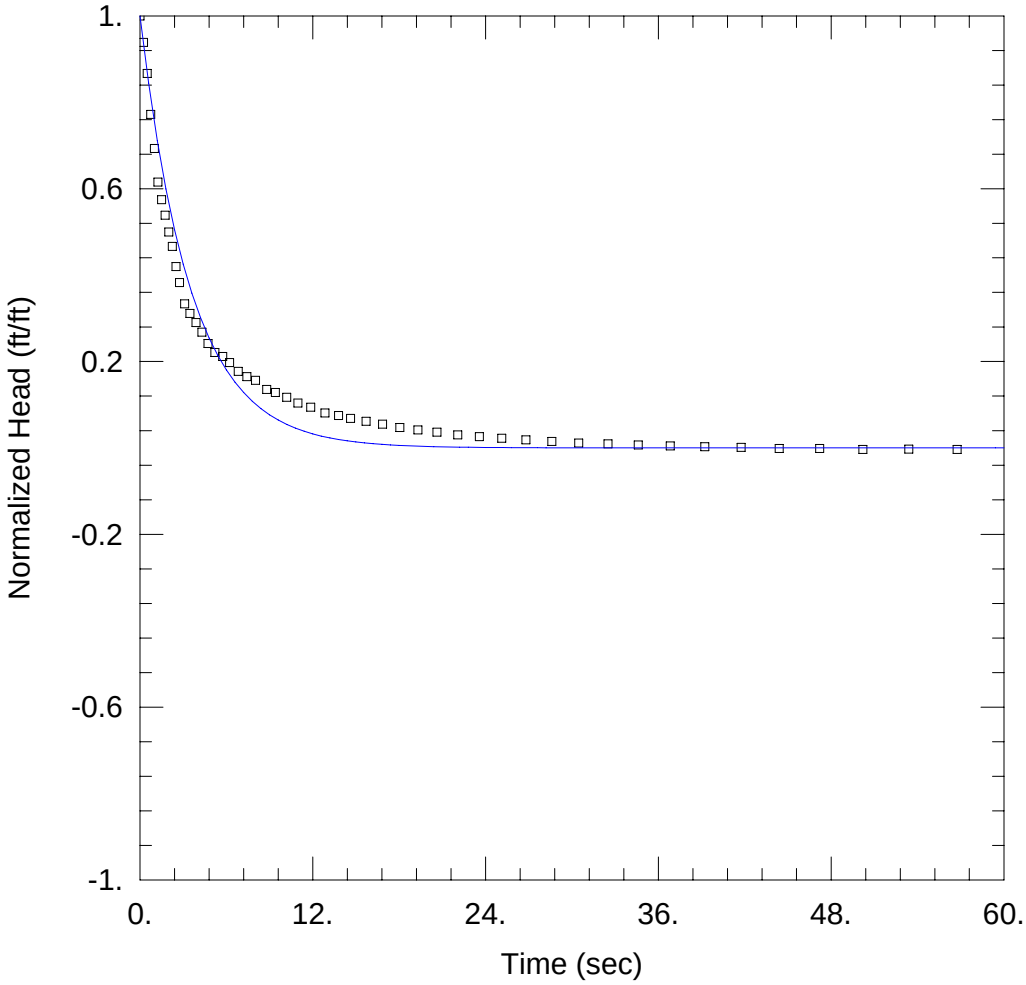
WELL DATA (KAFB106074)

Initial Displacement: 2.511 ft
Total Well Penetration Depth: 100.1 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 104.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 105.6 ft/day
Kz/Kr = 0.0537
Ss' = 0.001 ft^{-1}
Ss = 0.0002483 ft^{-1}
Kr' = 178.2 ft/day
Kz/Kr' = 1.



KAFB106074P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106074P3-SG.aqt
Date: 08/25/11 Time: 14:59:09

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106074
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 56. ft
Anisotropy Ratio (Kz/Kr): 0.1

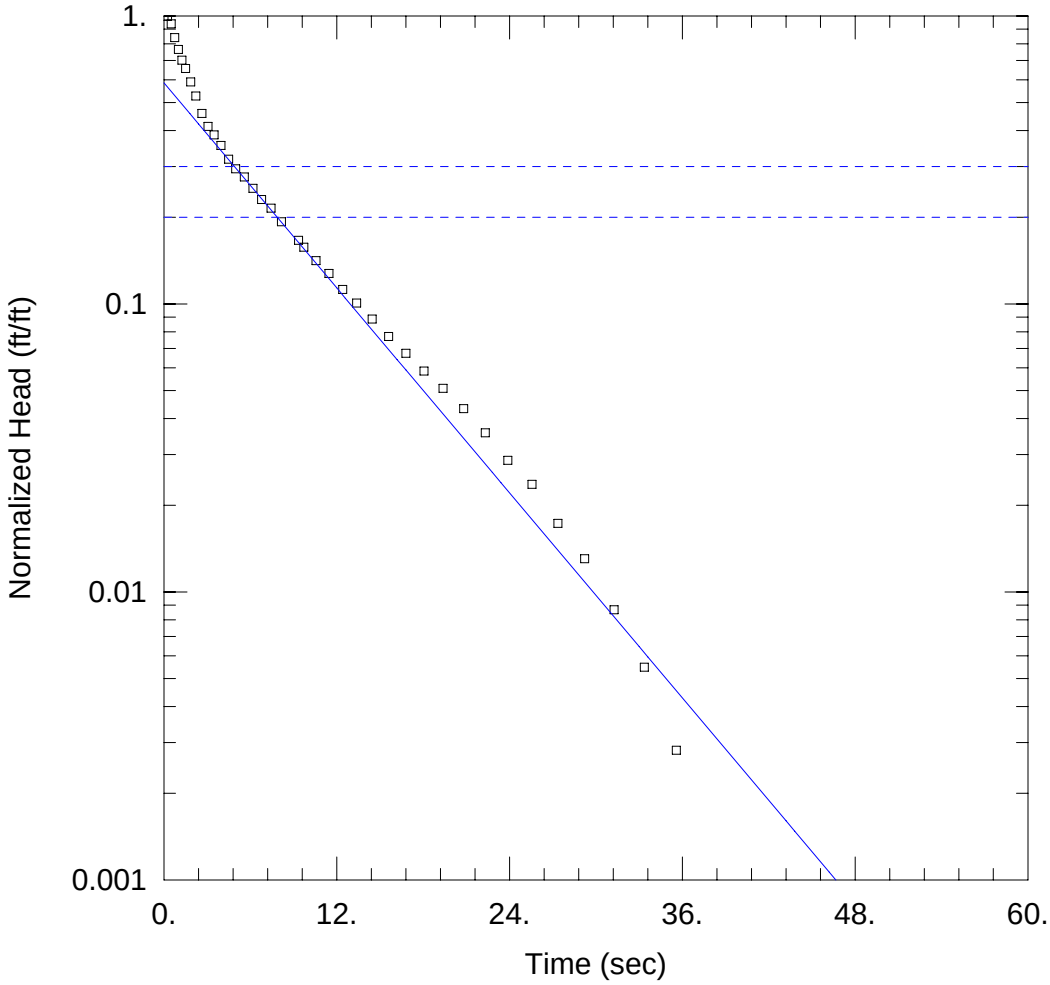
WELL DATA (KAFB106074)

Initial Displacement: 2.511 ft
Total Well Penetration Depth: 100.1 ft
Casing Radius: 0.198 ft
Static Water Column Height: 104.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 178.1 ft/day
Le = 1. ft



KAFB106074P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106074P4-BR.aqt
Date: 08/25/11 Time: 14:59:49

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106074
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 56. ft
Anisotropy Ratio (Kz/Kr): 0.1

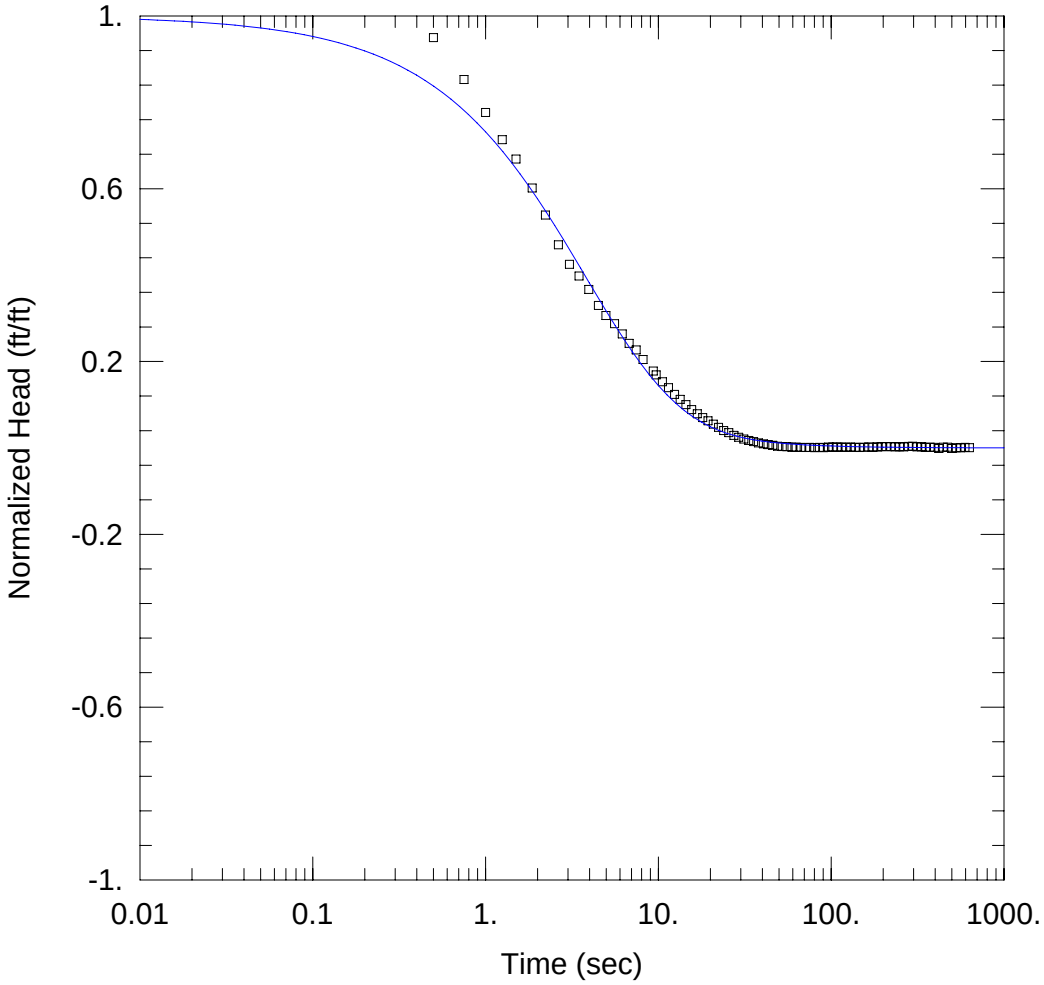
WELL DATA (KAFB106074)

Initial Displacement: 2.557 ft
Total Well Penetration Depth: 100.1 ft
Casing Radius: 0.198 ft
Static Water Column Height: 104.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 85.16 ft/day
y0 = 1.497 ft



KAFB106074P4

Data Set: C:\...\KAFB106074P4-KGS[1].aqt
Date: 08/25/11 Time: 15:08:18

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106074
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 56. ft

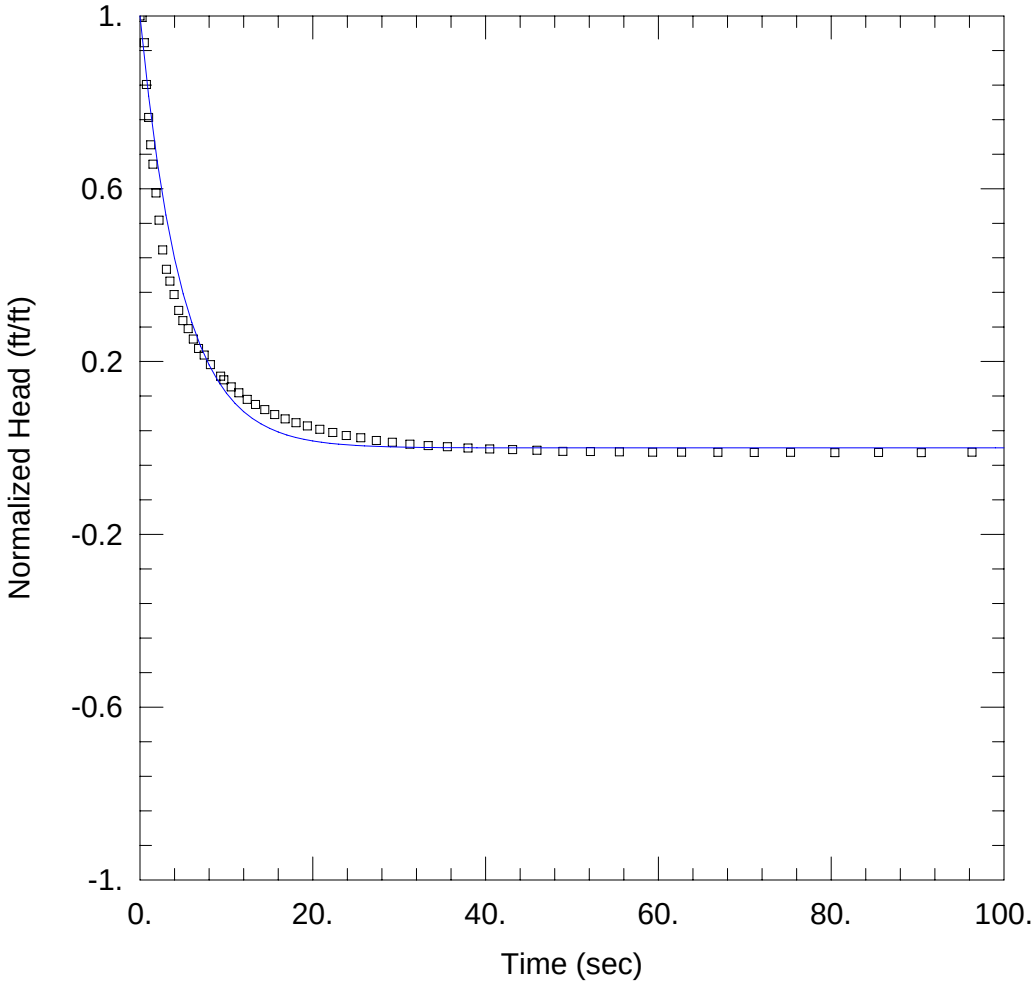
WELL DATA (KAFB106074)

Initial Displacement: 2.557 ft
Total Well Penetration Depth: 100.1 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 104.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 99.95 ft/day
Kz/Kr = 0.01023
Ss' = 1.0E-5 ft^{-1}
Ss = 7.161E-5 ft^{-1}
Kr' = 131.9 ft/day
Kz/Kr' = 1.



KAFB106074P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106074P4-SG.aqt
Date: 08/25/11 Time: 15:01:03

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106074
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 56. ft
Anisotropy Ratio (Kz/Kr): 0.1

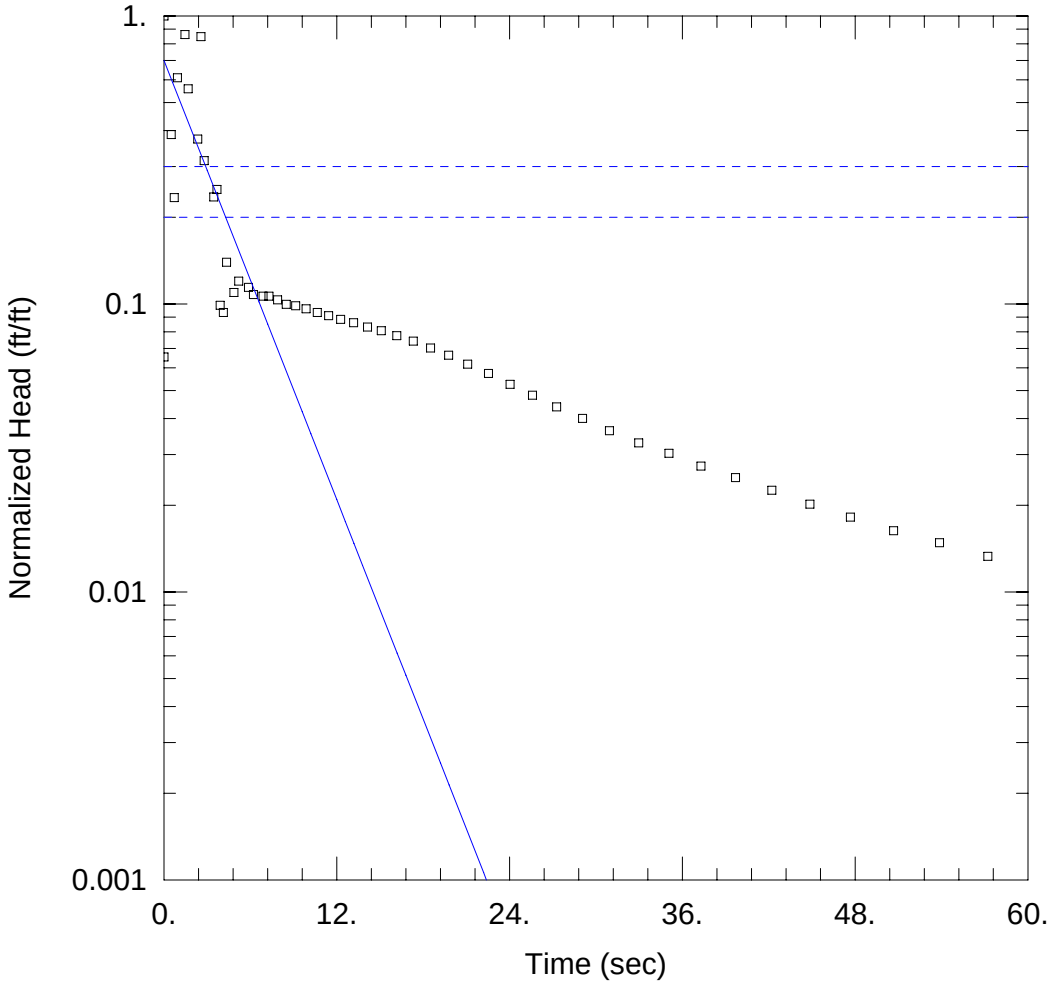
WELL DATA (KAFB106074)

Initial Displacement: 2.557 ft
Total Well Penetration Depth: 100.1 ft
Casing Radius: 0.198 ft
Static Water Column Height: 104.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 128.8 ft/day
Le = 1. ft



KAFB106075IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106075IN-BR.aqt
Date: 08/25/11 Time: 15:14:36

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106075
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 32. ft
Anisotropy Ratio (Kz/Kr): 0.1

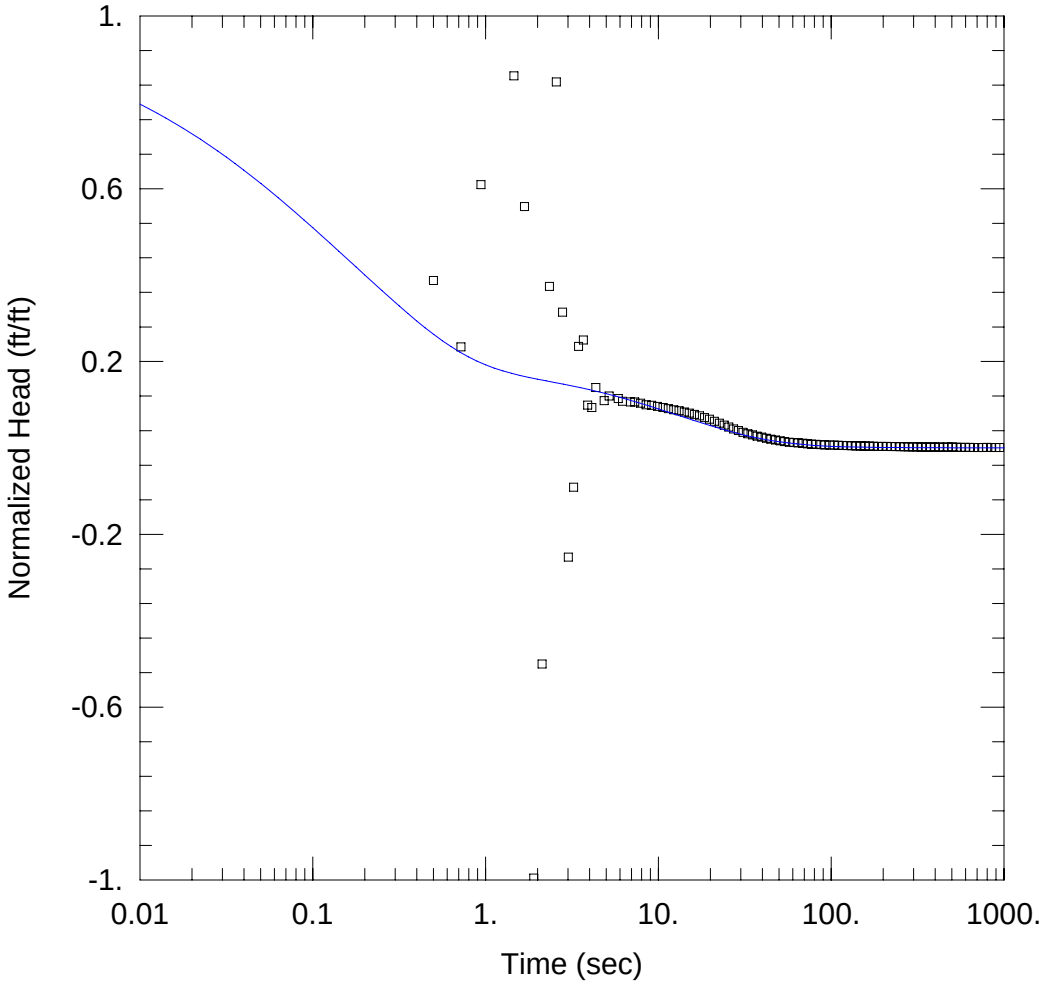
WELL DATA (KAFB106075)

Initial Displacement: 10.4 ft
Total Well Penetration Depth: 15.2 ft
Casing Radius: 0.198 ft
Static Water Column Height: 20.2 ft
Screen Length: 15.2 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 126.3 ft/day
y0 = 7.279 ft



KAFB106075IN

Data Set: C:\...\KAFB106075IN-KGS[1].aqt
Date: 08/25/11 Time: 15:21:37

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106075
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 32. ft

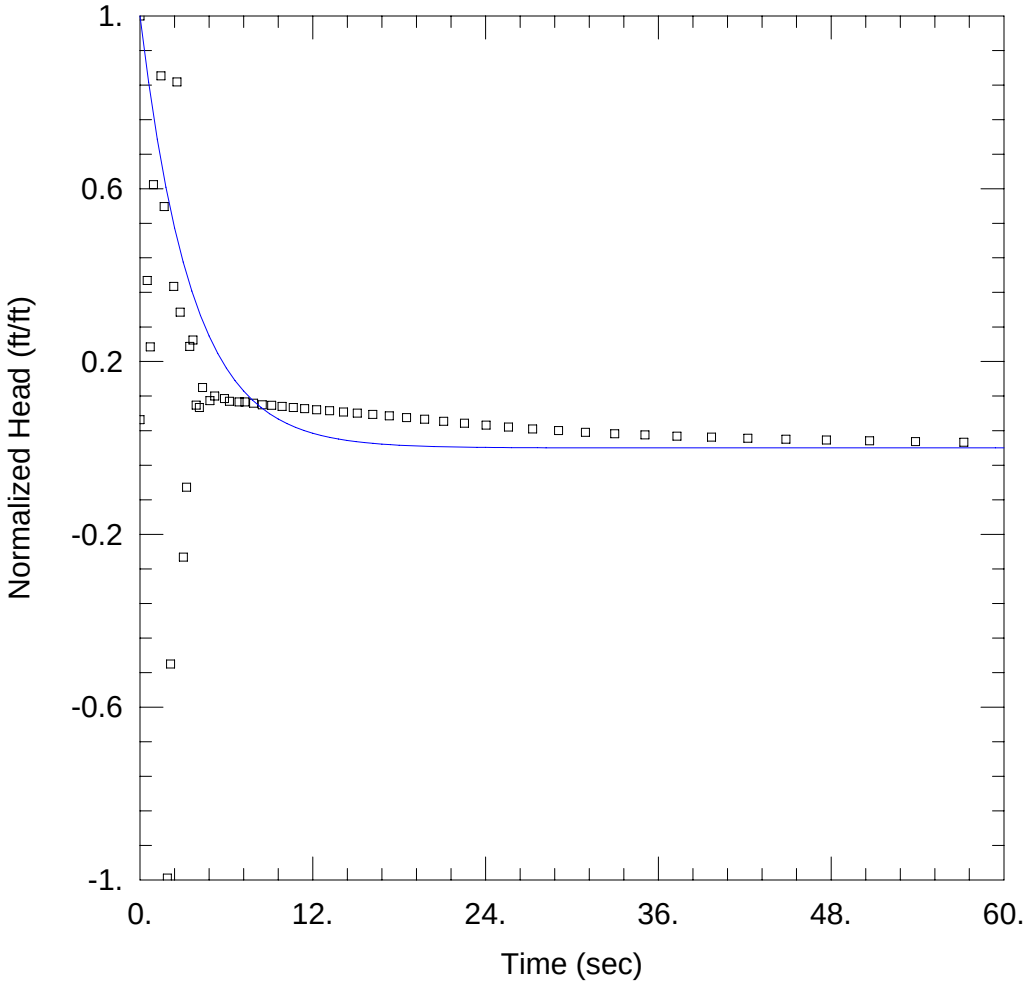
WELL DATA (KAFB106075)

Initial Displacement: 10.4 ft
Total Well Penetration Depth: 15.2 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 20.2 ft
Screen Length: 15.2 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 167.1 ft/day
Kz/Kr = 0.1
Ss' = 0.08913 ft^{-1}
Ss = 0.0001259 ft^{-1}
Kr' = 179.1 ft/day
Kz/Kr' = 1.



KAFB106075IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106075IN-SG.aqt
Date: 08/25/11 Time: 15:15:35

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106075
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 32. ft
Anisotropy Ratio (Kz/Kr): 0.1

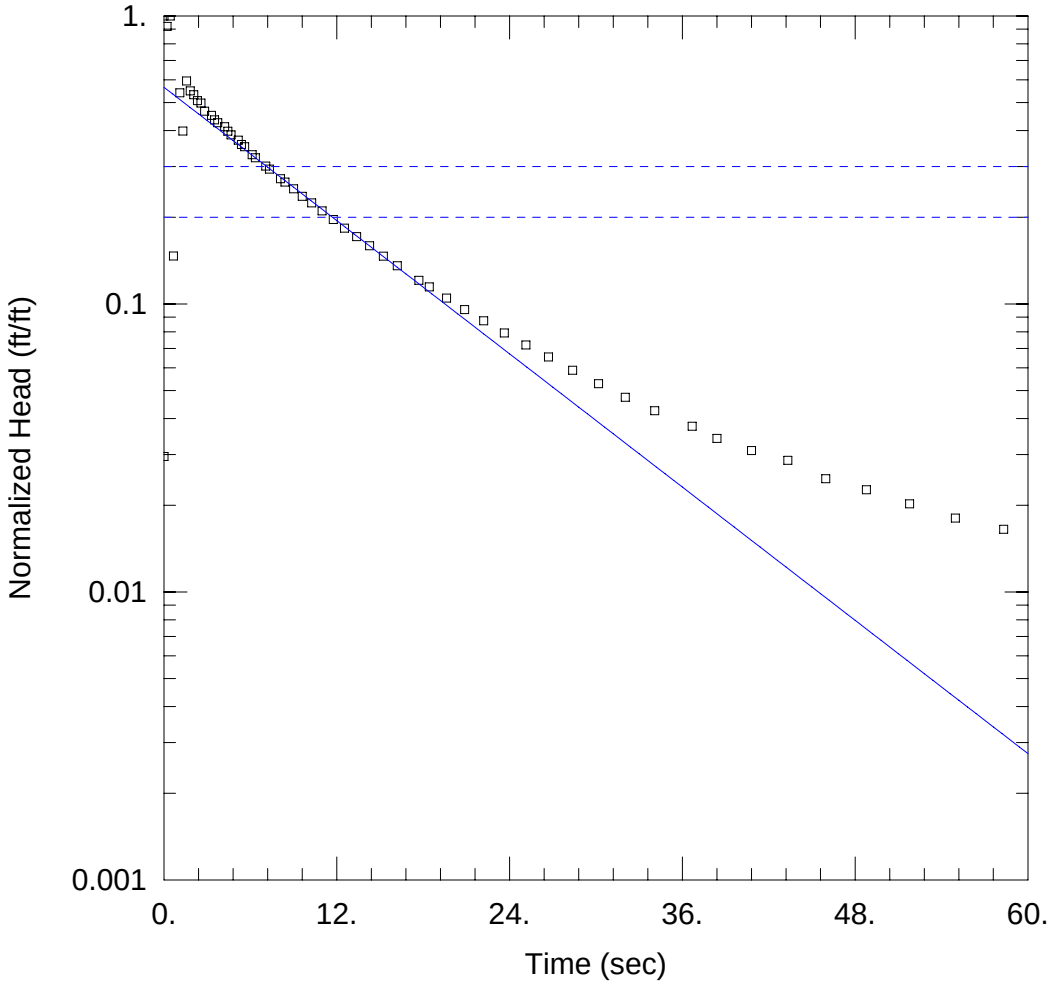
WELL DATA (KAFB106075)

Initial Displacement: 10.4 ft
Total Well Penetration Depth: 15.2 ft
Casing Radius: 0.198 ft
Static Water Column Height: 20.2 ft
Screen Length: 15.2 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 121.6 ft/day
Le = 1. ft



KAFB106075OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106075OUT-BR.aqt
Date: 08/25/11 Time: 15:16:26

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106075
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 32. ft
Anisotropy Ratio (Kz/Kr): 0.1

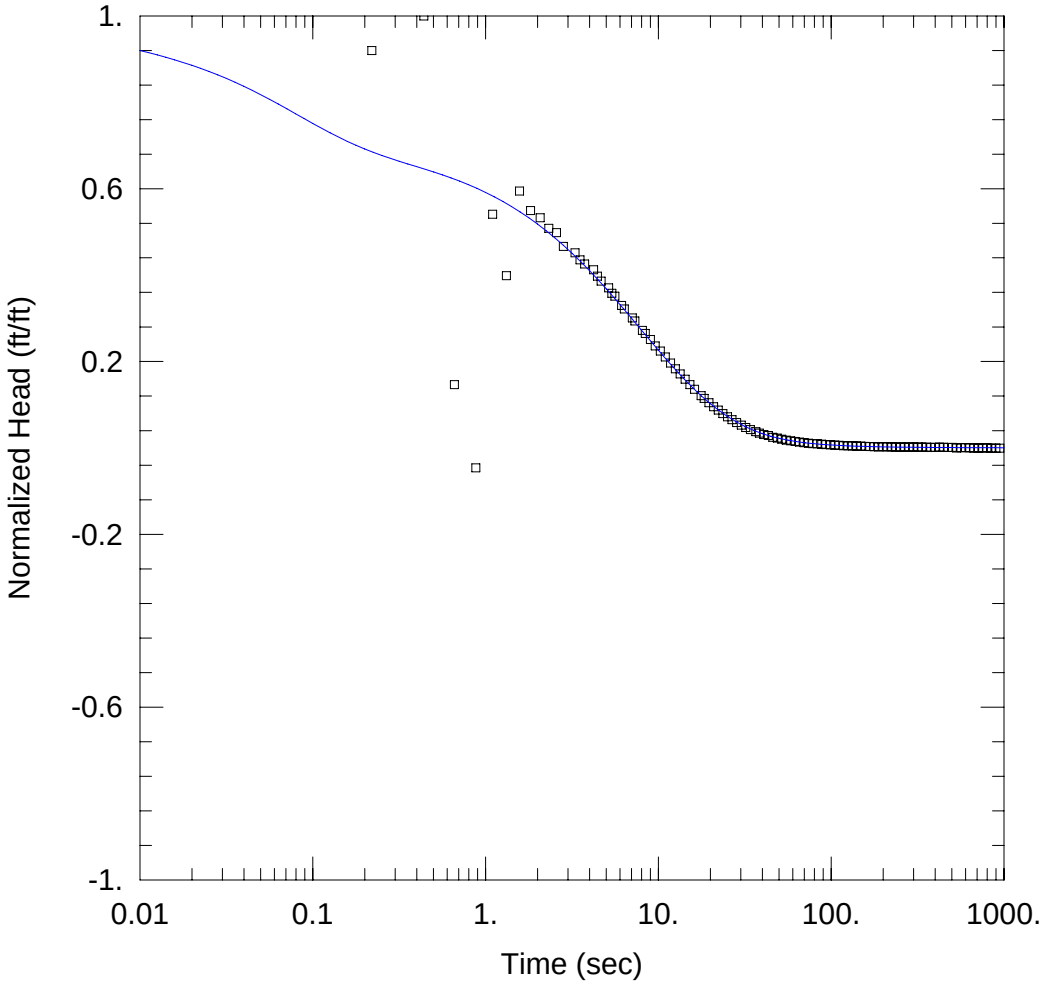
WELL DATA (KAFB106075)

Initial Displacement: 7.504 ft
Total Well Penetration Depth: 15.2 ft
Casing Radius: 0.198 ft
Static Water Column Height: 20.2 ft
Screen Length: 15.2 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 38.36 ft/day
y0 = 4.241 ft



KAFB106075OUT

Data Set: C:\...\KAFB106075OUT-KGS[1].aqt
Date: 08/25/11 Time: 15:22:25

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106075
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 32. ft

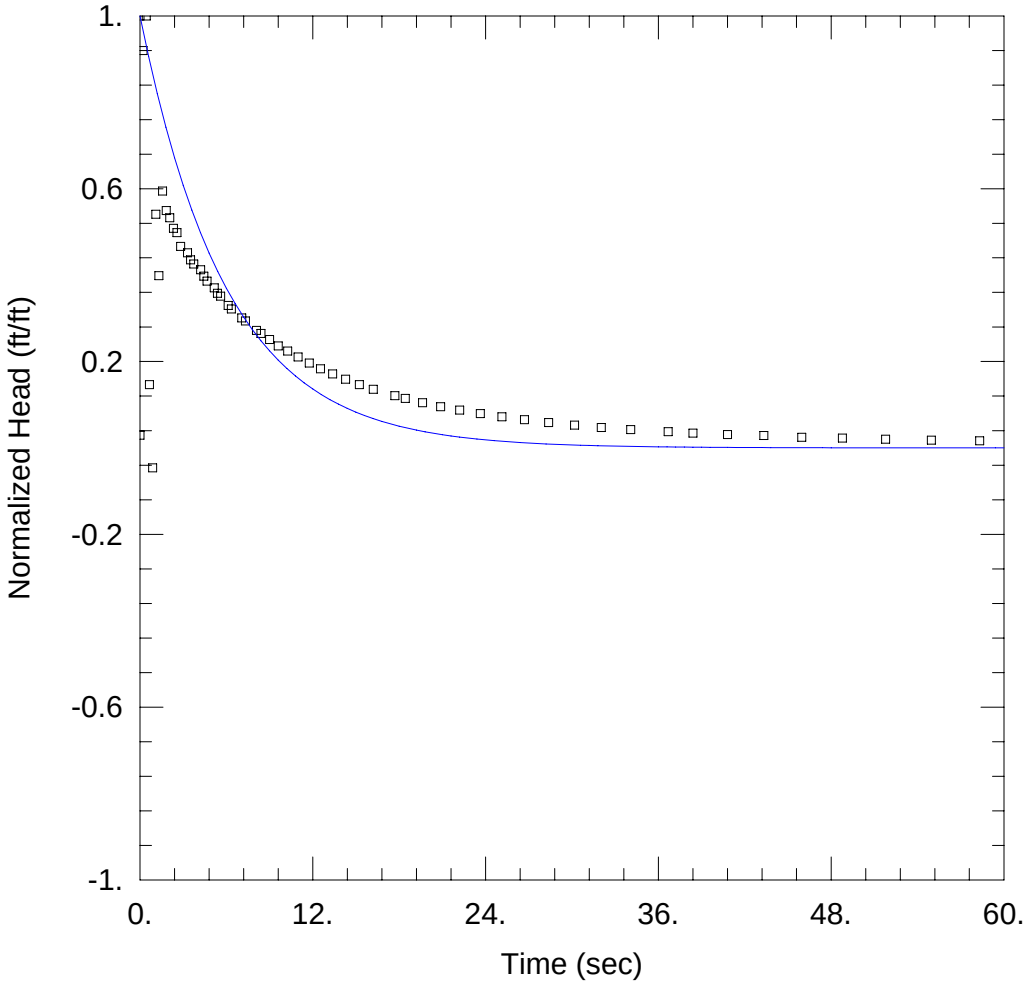
WELL DATA (KAFB106075)

Initial Displacement: 7.504 ft
Total Well Penetration Depth: 15.2 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 20.2 ft
Screen Length: 15.2 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 76.53 ft/day
Kz/Kr = 0.01905
Ss' = 0.008913 ft^{-1}
Ss = 2.541E-5 ft^{-1}
Kr' = 191.4 ft/day
Kz/Kr' = 1.



KAFB106075OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106075OUT-SG.aqt
Date: 08/25/11 Time: 15:17:29

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106075
Test Date: 7/28/11

AQUIFER DATA

Saturated Thickness: 32. ft
Anisotropy Ratio (Kz/Kr): 0.1

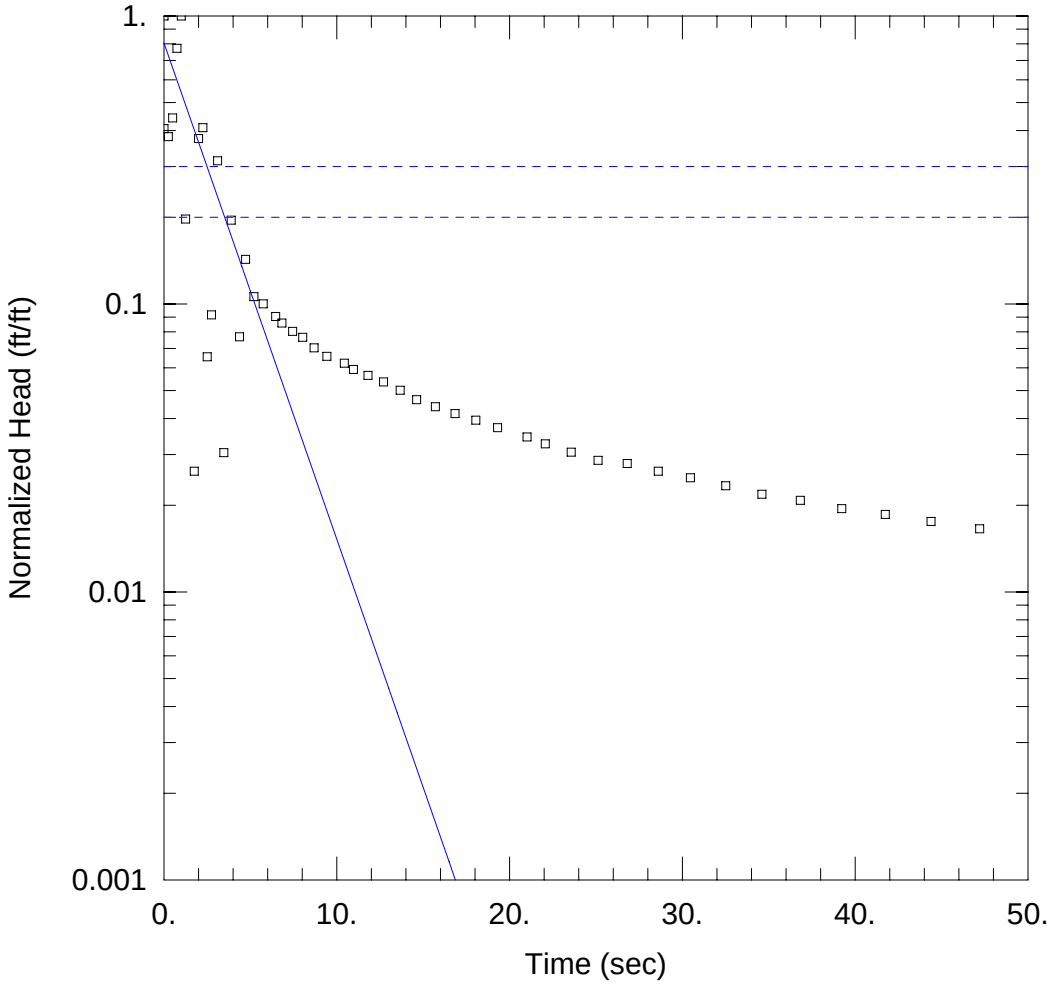
WELL DATA (KAFB106075)

Initial Displacement: 7.504 ft
Total Well Penetration Depth: 15.2 ft
Casing Radius: 0.198 ft
Static Water Column Height: 20.2 ft
Screen Length: 15.2 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 71.7 ft/day
Le = 1. ft



KAFB106079IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106079IN-BR.aqt
Date: 08/29/11 Time: 16:21:06

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106079
Test Date: 8/2/11

AQUIFER DATA

Saturated Thickness: 29.34 ft Anisotropy Ratio (Kz/Kr): 0.1

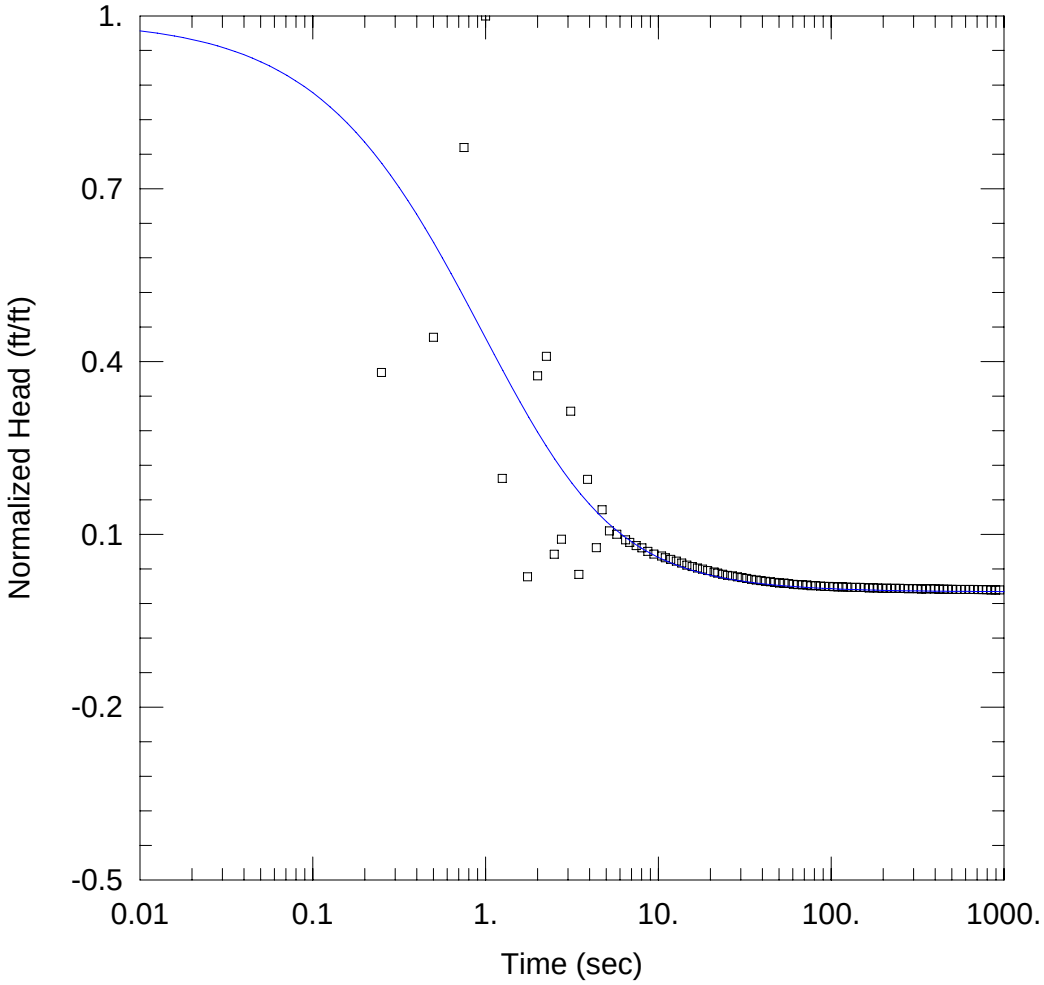
WELL DATA (KAFB106079)

Initial Displacement: 8.321 ft
Total Well Penetration Depth: 12.34 ft
Casing Radius: 0.198 ft
Static Water Column Height: 16.8 ft
Screen Length: 12.34 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 200.5 ft/day y0 = 6.699 ft



KAFB106079IN

Data Set: C:\...\KAFB106079IN-KGS[1].aqt
Date: 08/29/11 Time: 16:29:13

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106079
Test Date: 8/2/11

AQUIFER DATA

Saturated Thickness: 100. ft

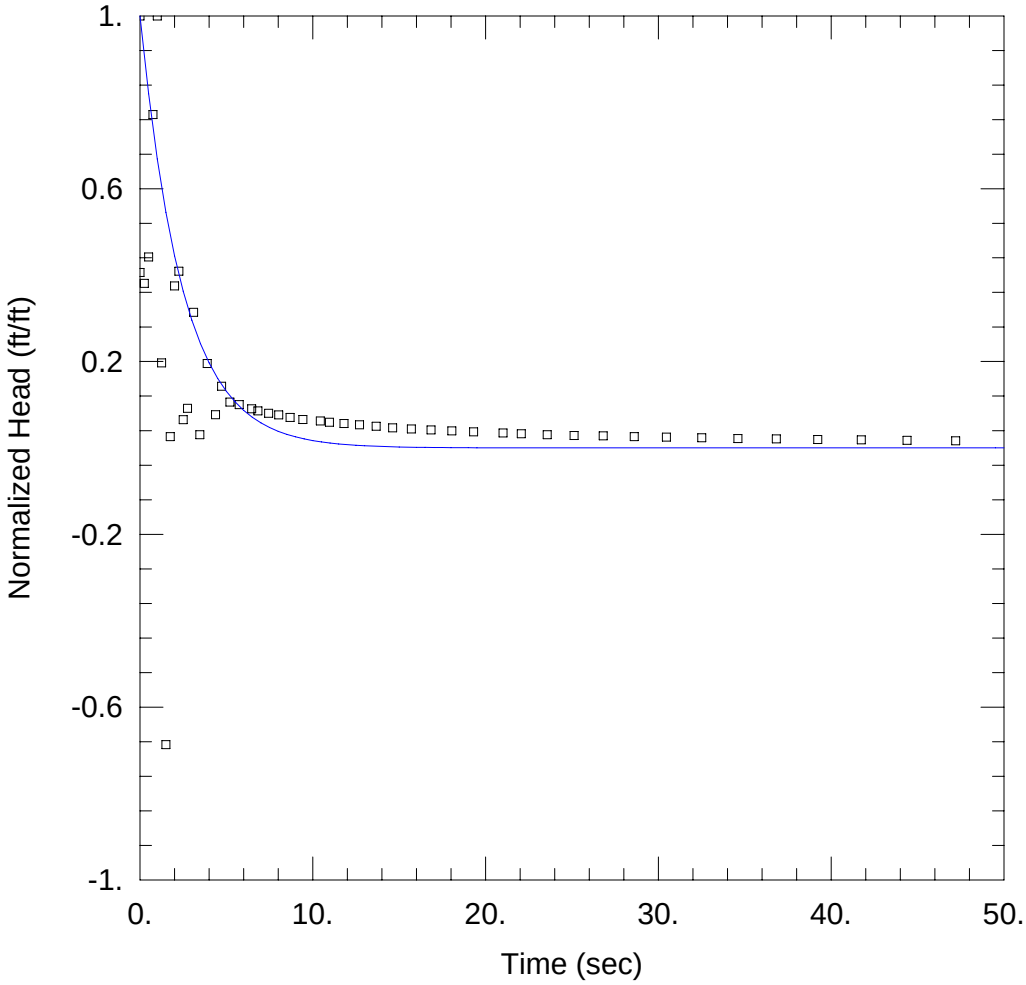
WELL DATA (KAFB106079)

Initial Displacement: 8.321 ft
Total Well Penetration Depth: 12.34 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 16.8 ft
Screen Length: 12.34 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 121. ft/day
Kz/Kr = 0.00861
Ss' = 0.001 ft^{-1}
Ss = 0.01378 ft^{-1}
Kr' = 176.2 ft/day
Kz/Kr' = 1.



KAFB106079IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106079IN-SG.aqt
Date: 08/29/11 Time: 16:22:15

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106079
Test Date: 8/2/11

AQUIFER DATA

Saturated Thickness: 29.34 ft
Anisotropy Ratio (Kz/Kr): 0.1

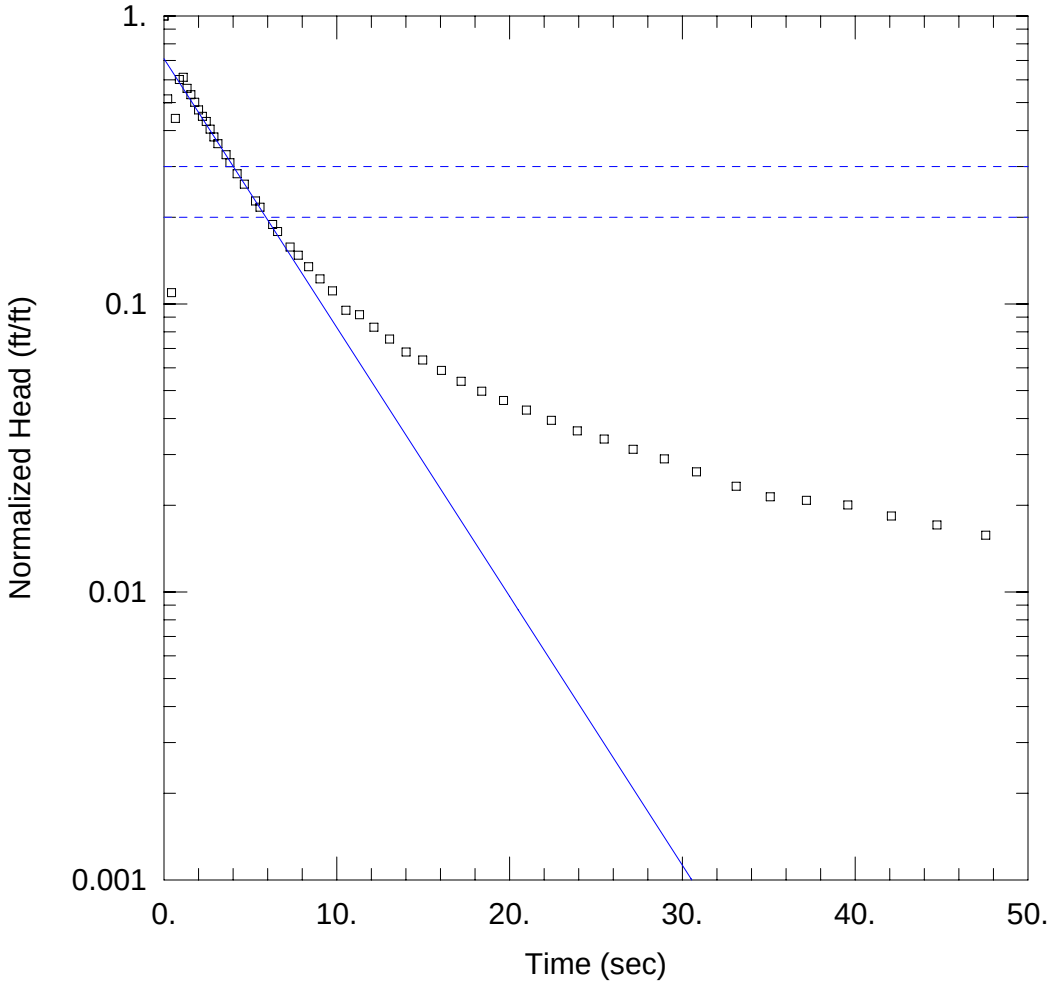
WELL DATA (KAFB106079)

Initial Displacement: 8.321 ft
Total Well Penetration Depth: 12.34 ft
Casing Radius: 0.198 ft
Static Water Column Height: 16.8 ft
Screen Length: 12.34 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 205.1 ft/day
Le = 1. ft



KAFB106079OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106079OUT-BR.aqt
Date: 08/29/11 Time: 16:23:44

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106079
Test Date: 8/2/11

AQUIFER DATA

Saturated Thickness: 29.34 ft
Anisotropy Ratio (Kz/Kr): 0.1

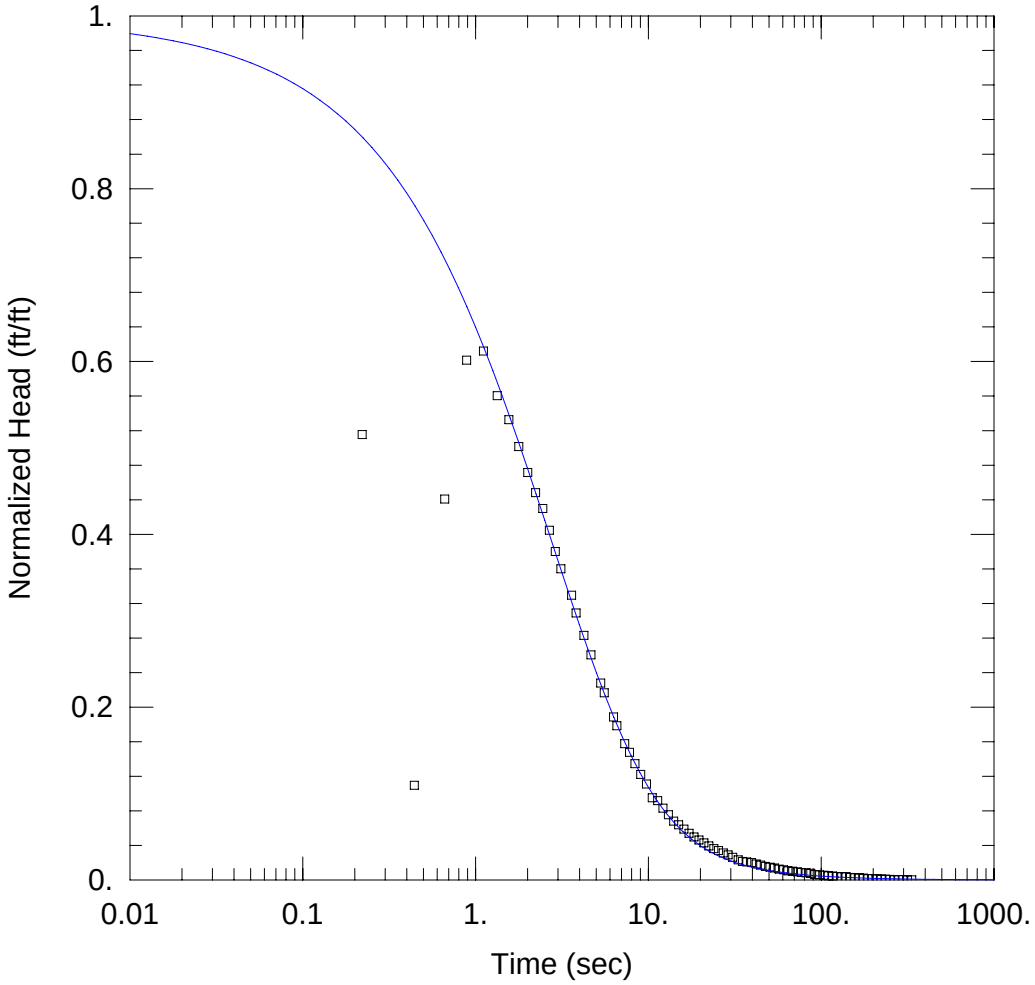
WELL DATA (KAFB106079)

Initial Displacement: 6.462 ft
Total Well Penetration Depth: 12.34 ft
Casing Radius: 0.198 ft
Static Water Column Height: 16.8 ft
Screen Length: 12.34 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 108.7 ft/day
y0 = 4.59 ft



KAFB106079OUT

Data Set: C:\...\KAFB106079OUT-KGS[1].aqt
Date: 08/29/11 Time: 16:31:11

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106079
Test Date: 8/2/11

AQUIFER DATA

Saturated Thickness: 100. ft

WELL DATA (KAFB106079)

Initial Displacement: 6.462 ft
Total Well Penetration Depth: 12.34 ft
Casing Radius: 0.198 ft

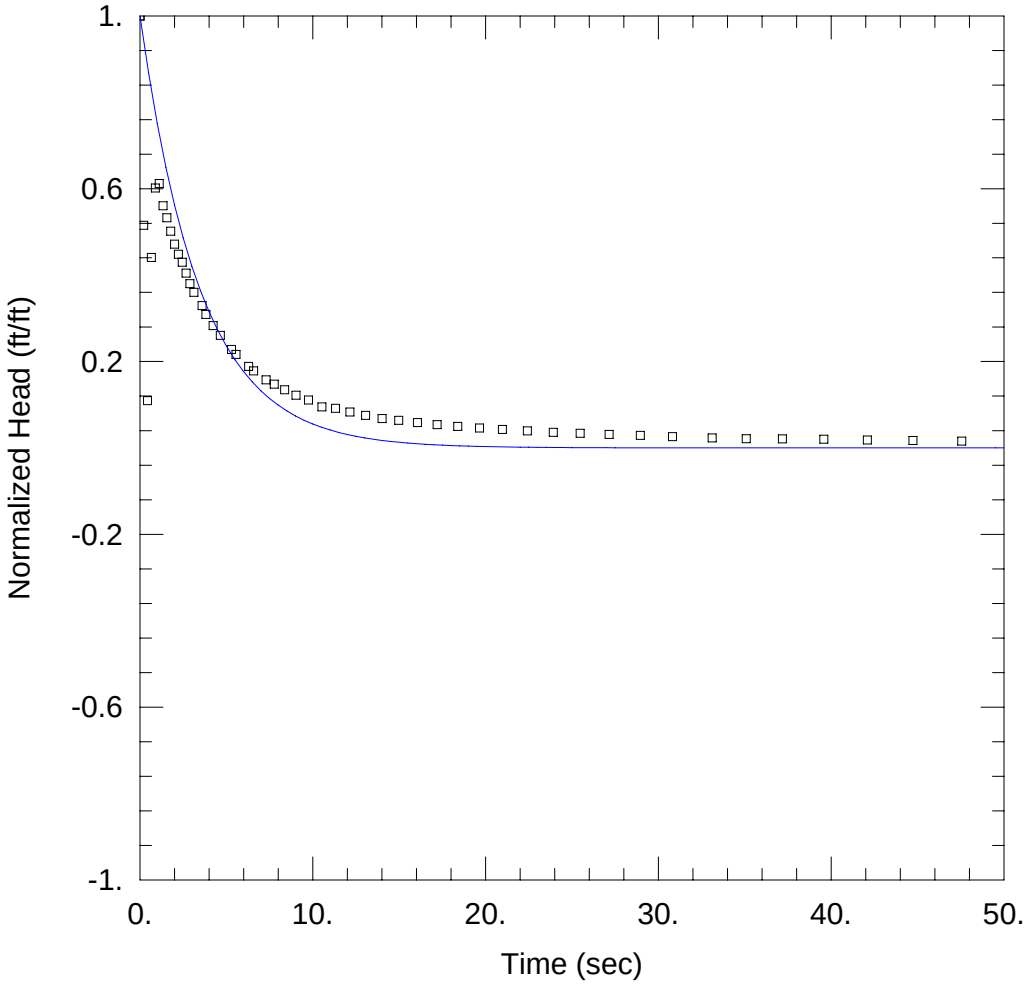
Static Water Column Height: 16.8 ft
Screen Length: 12.34 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 120.7 ft/day
Kz/Kr = 0.3199

Ss = 0.001 ft^{-1}



KAFB106079OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106079OUT-SG.aqt
Date: 08/29/11 Time: 16:24:19

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106079
Test Date: 8/2/11

AQUIFER DATA

Saturated Thickness: 29.34 ft
Anisotropy Ratio (Kz/Kr): 0.1

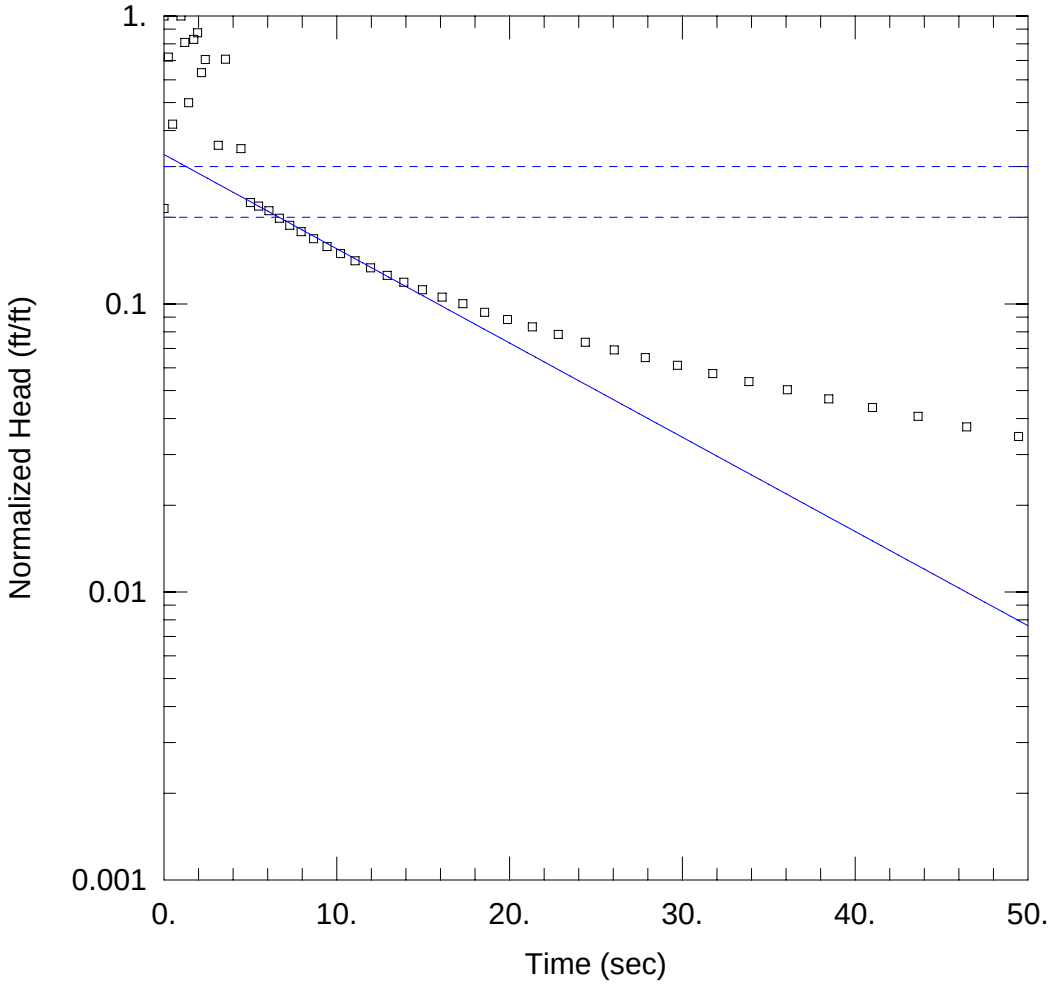
WELL DATA (KAFB106079)

Initial Displacement: 6.462 ft
Total Well Penetration Depth: 12.34 ft
Casing Radius: 0.198 ft
Static Water Column Height: 16.8 ft
Screen Length: 12.34 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 146. ft/day
Le = 1. ft



KAFB106082IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106082IN-BR.aqt
Date: 08/25/11 Time: 15:41:15

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106082
Test Date: 7/21/11

AQUIFER DATA

Saturated Thickness: 21.31 ft Anisotropy Ratio (Kz/Kr): 0.1

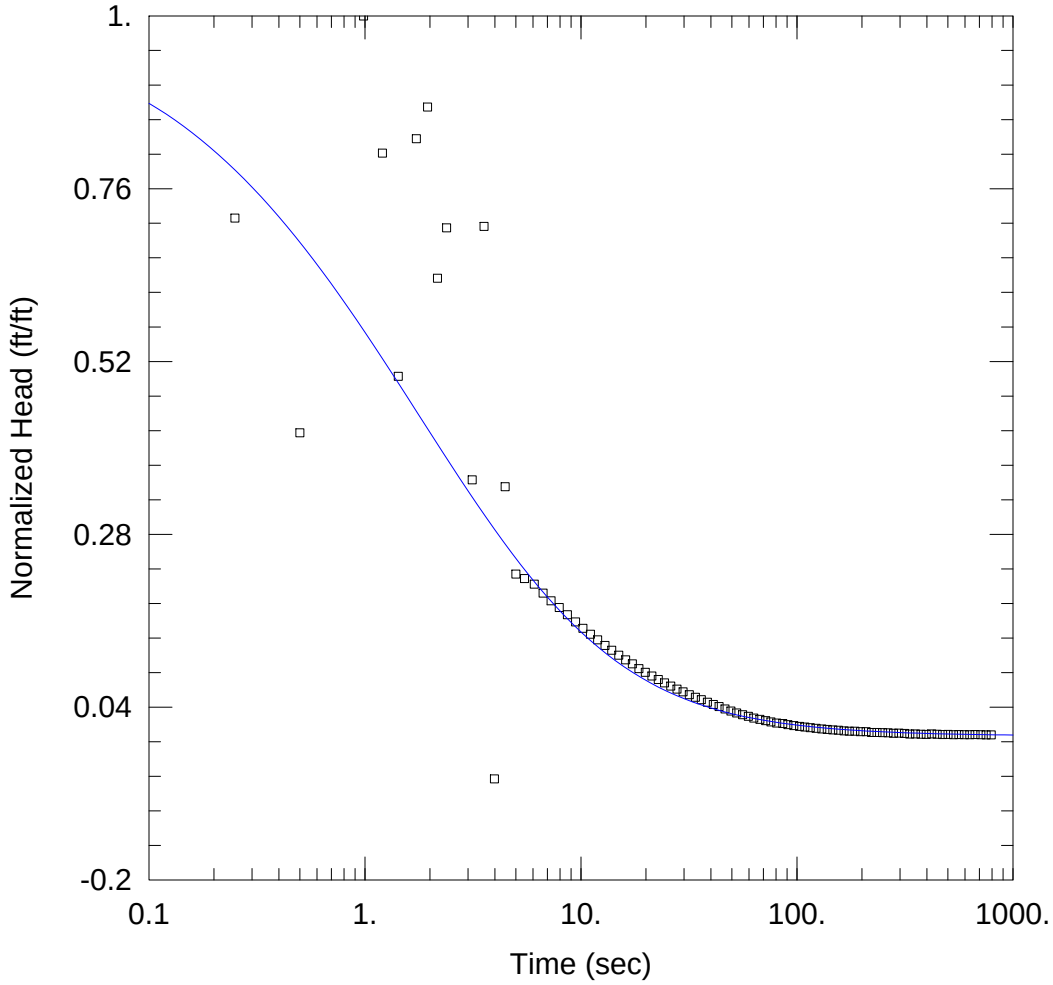
WELL DATA (KAFB106082)

Initial Displacement: 6.476 ft
Total Well Penetration Depth: 12.84 ft
Casing Radius: 0.198 ft
Static Water Column Height: 17.84 ft
Screen Length: 12.84 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 37.52 ft/day y0 = 2.138 ft



KAFB106082IN

Data Set: C:\...\KAFB106082IN-KGS[1].aqt
Date: 08/27/11 Time: 17:40:12

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106082
Test Date: 7/21/11

AQUIFER DATA

Saturated Thickness: 21.31 ft

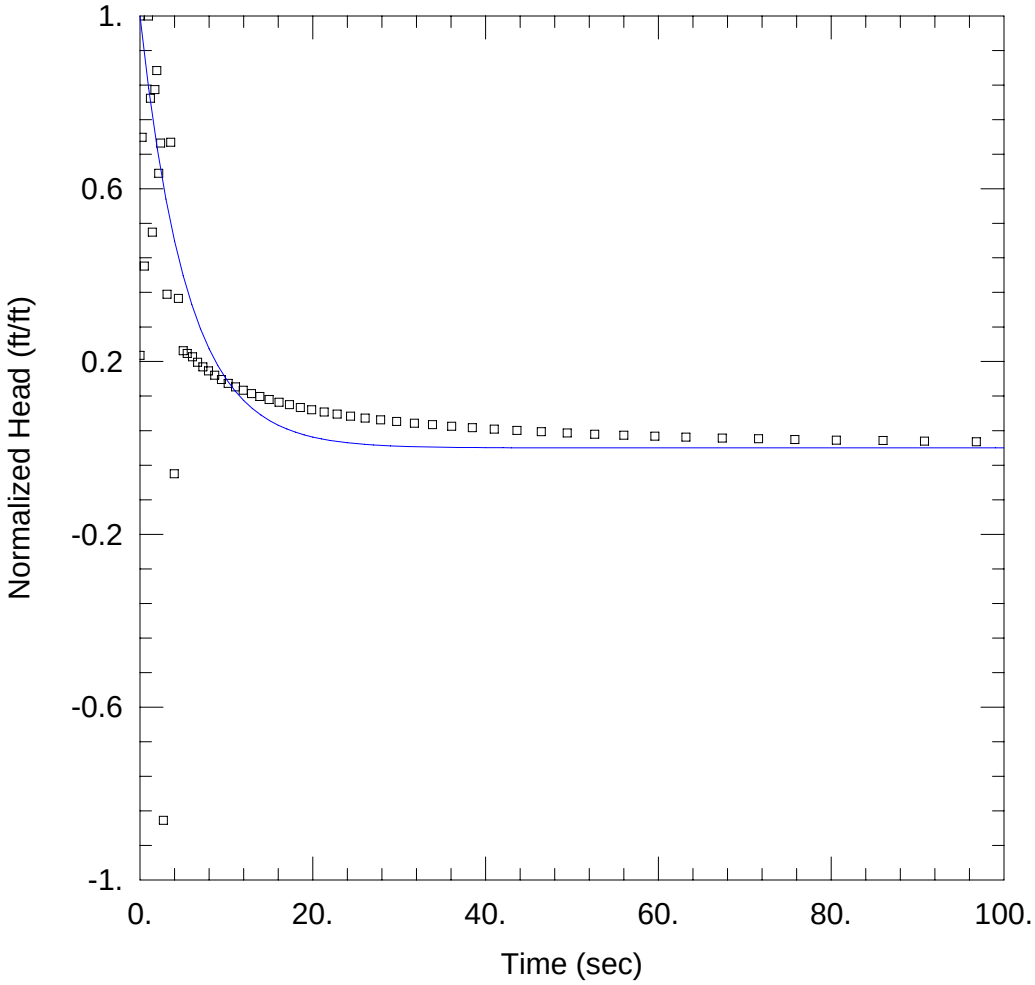
WELL DATA (KAFB106082)

Initial Displacement: 6.476 ft
Total Well Penetration Depth: 12.84 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 17.84 ft
Screen Length: 12.84 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 37.52 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.01202 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106082IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106082IN-SG.aqt
Date: 08/25/11 Time: 15:42:14

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106082
Test Date: 7/21/11

AQUIFER DATA

Saturated Thickness: 21.31 ft
Anisotropy Ratio (Kz/Kr): 0.1

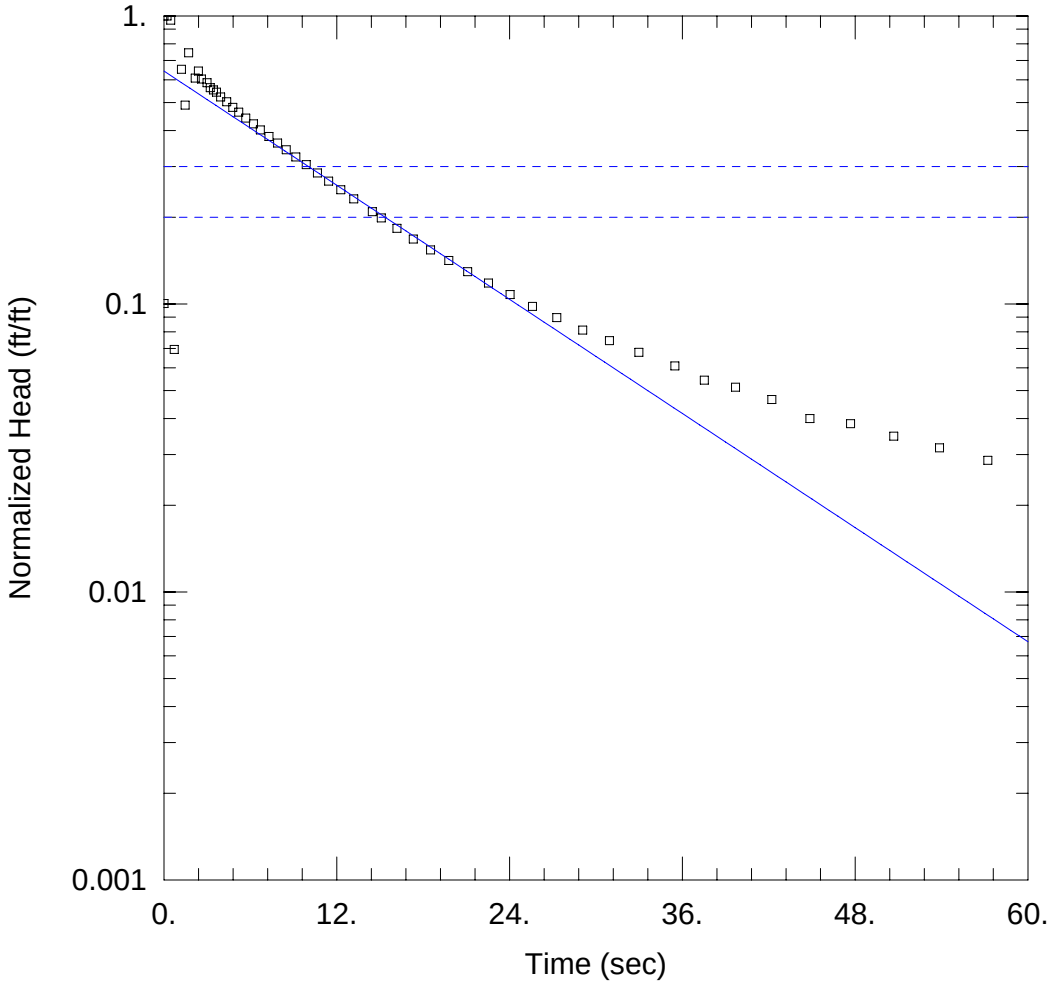
WELL DATA (KAFB106082)

Initial Displacement: 6.476 ft
Total Well Penetration Depth: 12.84 ft
Casing Radius: 0.198 ft
Static Water Column Height: 17.84 ft
Screen Length: 12.84 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 91.64 ft/day
Le = 1. ft



KAFB106082OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106082OUT-BR.aqt
Date: 08/31/11 Time: 10:09:37

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106082
Test Date: 7/21/11

AQUIFER DATA

Saturated Thickness: 21.31 ft
Anisotropy Ratio (Kz/Kr): 0.1

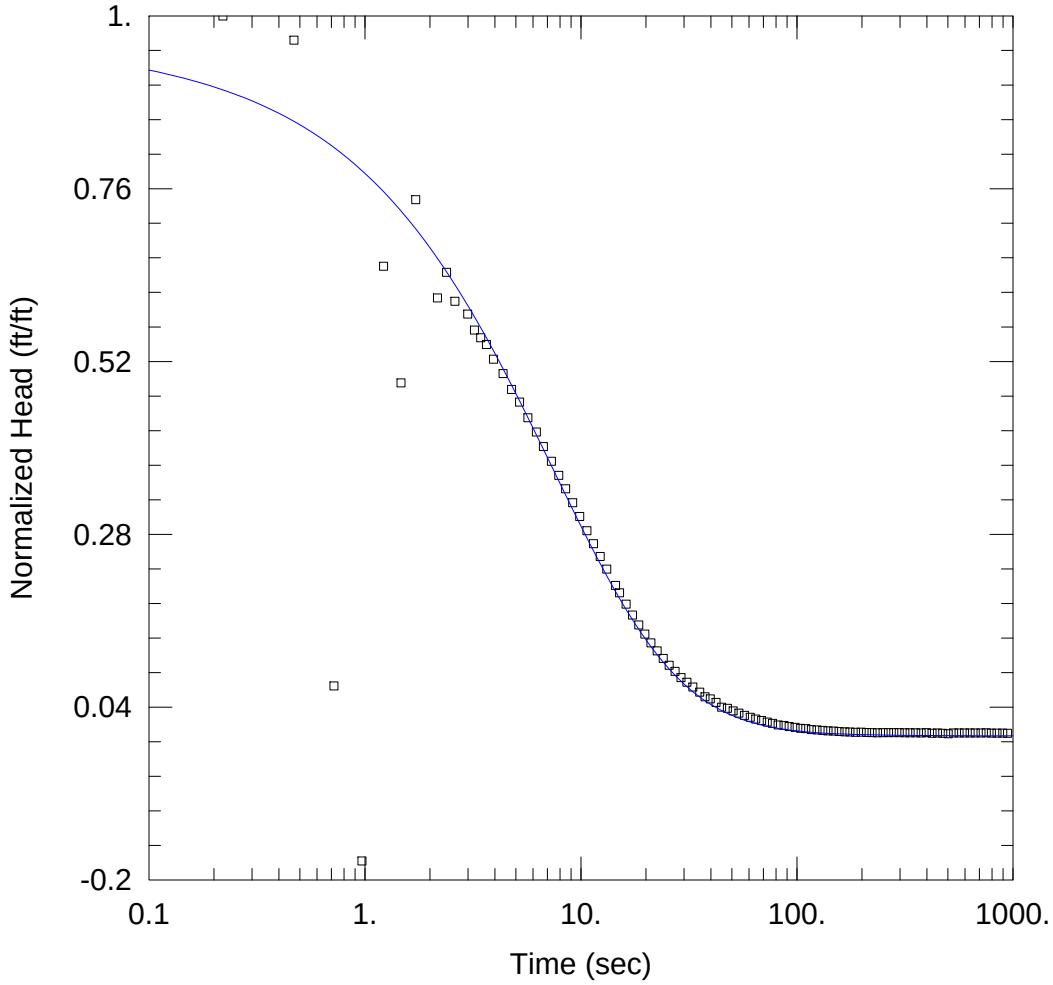
WELL DATA (KAFB106082)

Initial Displacement: 6.364 ft
Total Well Penetration Depth: 12.84 ft
Casing Radius: 0.198 ft
Static Water Column Height: 17.84 ft
Screen Length: 12.84 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 37.87 ft/day
y0 = 4.094 ft



KAFB106082OUT

Data Set: C:\...\KAFB106082OUT-KGS[1].aqt
Date: 08/27/11 Time: 17:44:16

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106082
Test Date: 7/21/11

AQUIFER DATA

Saturated Thickness: 21.31 ft

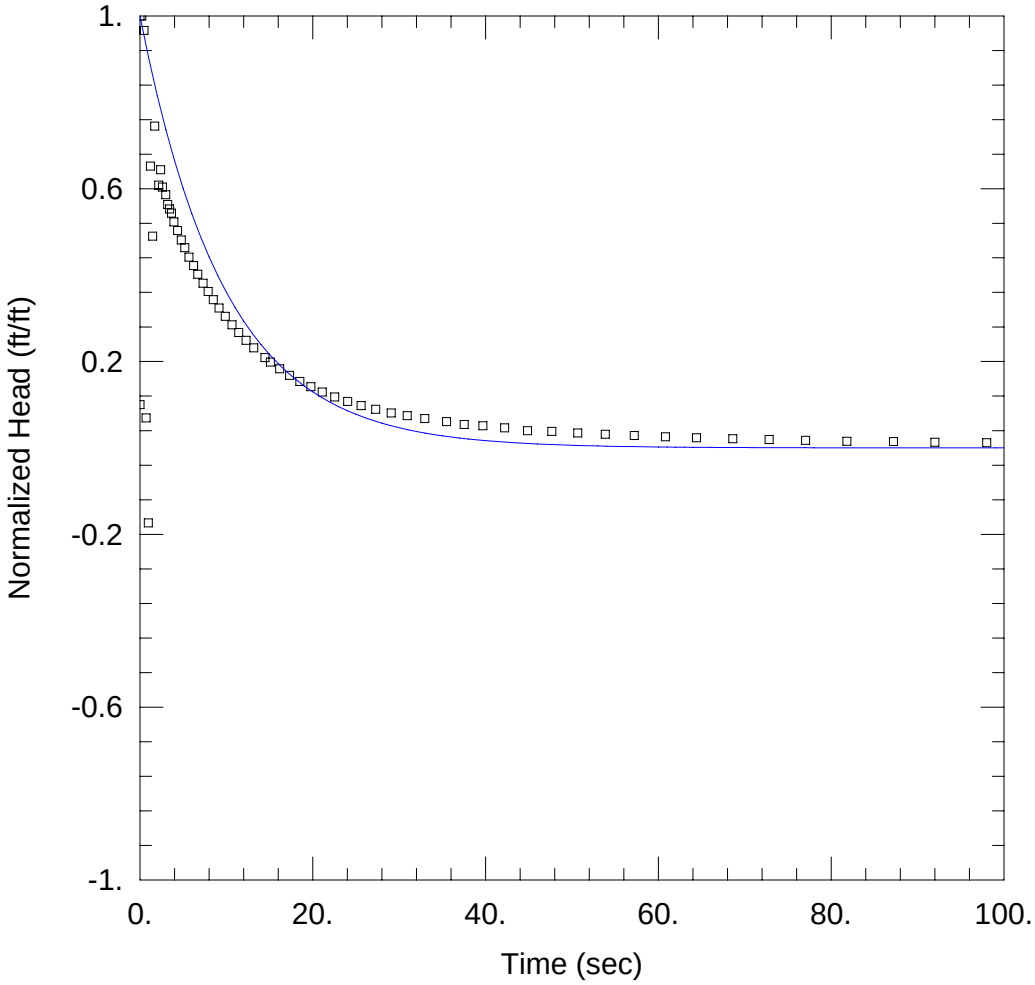
WELL DATA (KAFB106082)

Initial Displacement: 6.364 ft
Total Well Penetration Depth: 12.84 ft
Casing Radius: 0.189 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 17.84 ft
Screen Length: 12.84 ft
Well Radius: 0.189 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 40.93 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.0001641 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106082OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106082OUT-SG.aqt
Date: 08/31/11 Time: 10:13:15

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106082
Test Date: 7/21/11

AQUIFER DATA

Saturated Thickness: 21.31 ft
Anisotropy Ratio (Kz/Kr): 0.1

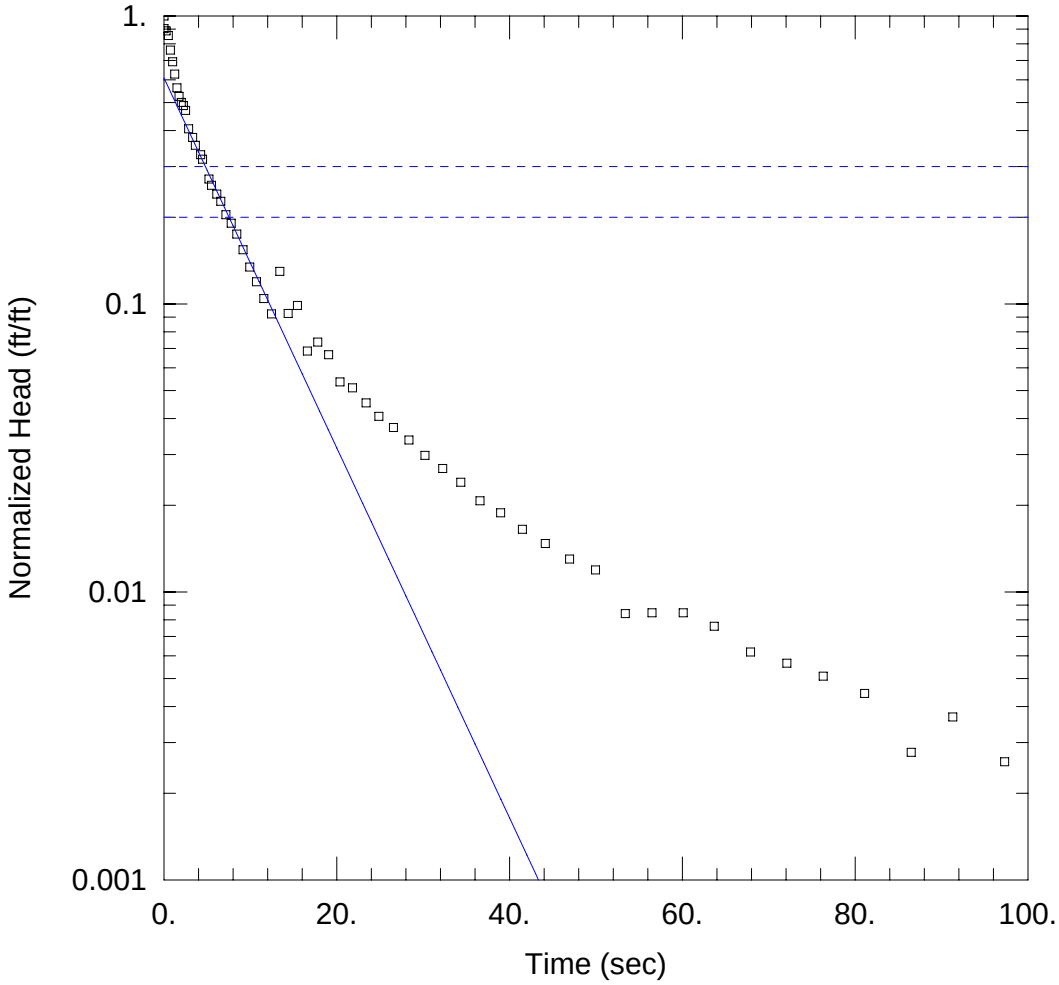
WELL DATA (KAFB106082)

Initial Displacement: 6.364 ft
Total Well Penetration Depth: 12.84 ft
Casing Radius: 0.198 ft
Static Water Column Height: 17.84 ft
Screen Length: 12.84 ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 50.85 ft/day
Le = 1. ft



KAFB 106083 P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106083P1-BR.aqt
Date: 08/25/11 Time: 15:51:48

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106083
Test Date: 7/22/11

AQUIFER DATA

Saturated Thickness: 42. ft
Anisotropy Ratio (Kz/Kr): 0.1

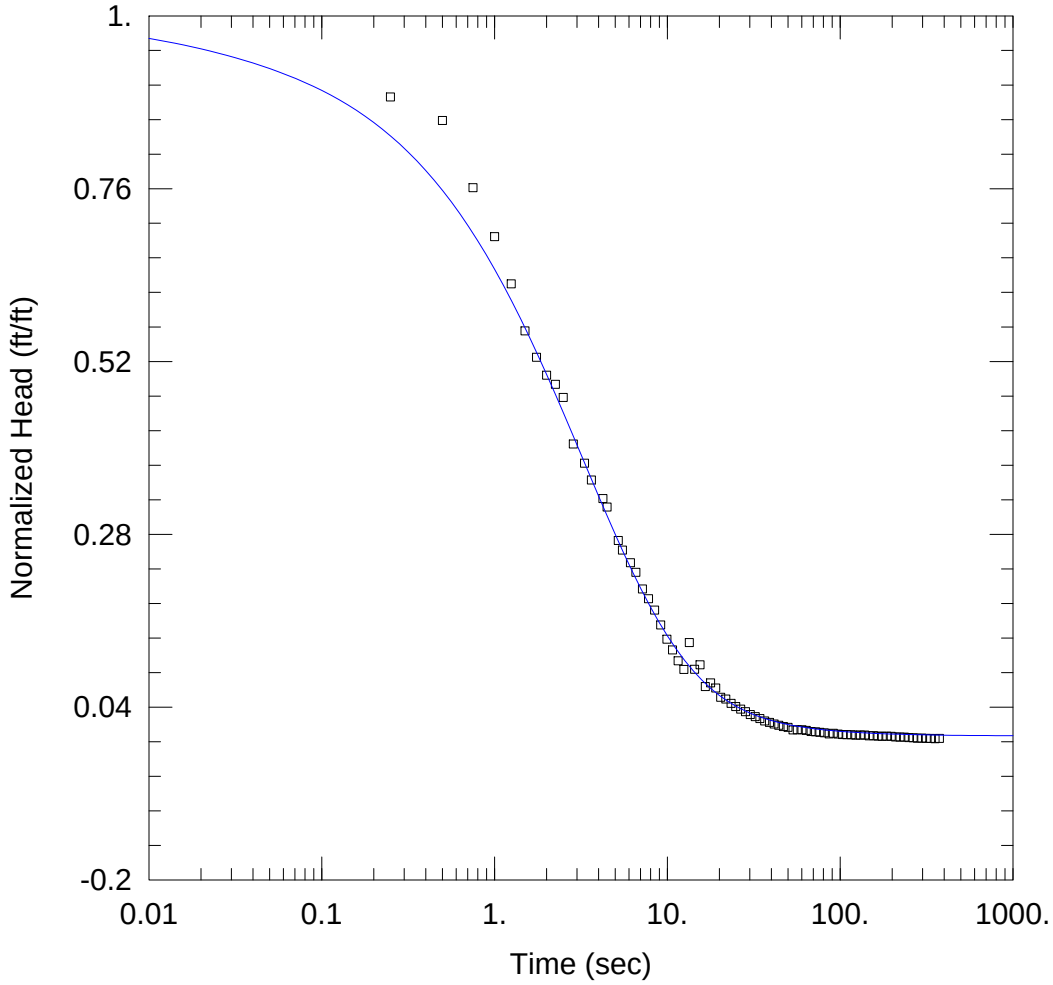
WELL DATA (KAFB 106083)

Initial Displacement: 2.5 ft
Total Well Penetration Depth: 31.5 ft
Casing Radius: 0.198 ft
Static Water Column Height: 36.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 71.91 ft/day
y0 = 1.522 ft



KAFB 106083 P1

Data Set: C:\...\KAFB106083P1-KGS[1].aqt
Date: 08/27/11 Time: 17:52:16

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106083
Test Date: 7/22/11

AQUIFER DATA

Saturated Thickness: 42. ft

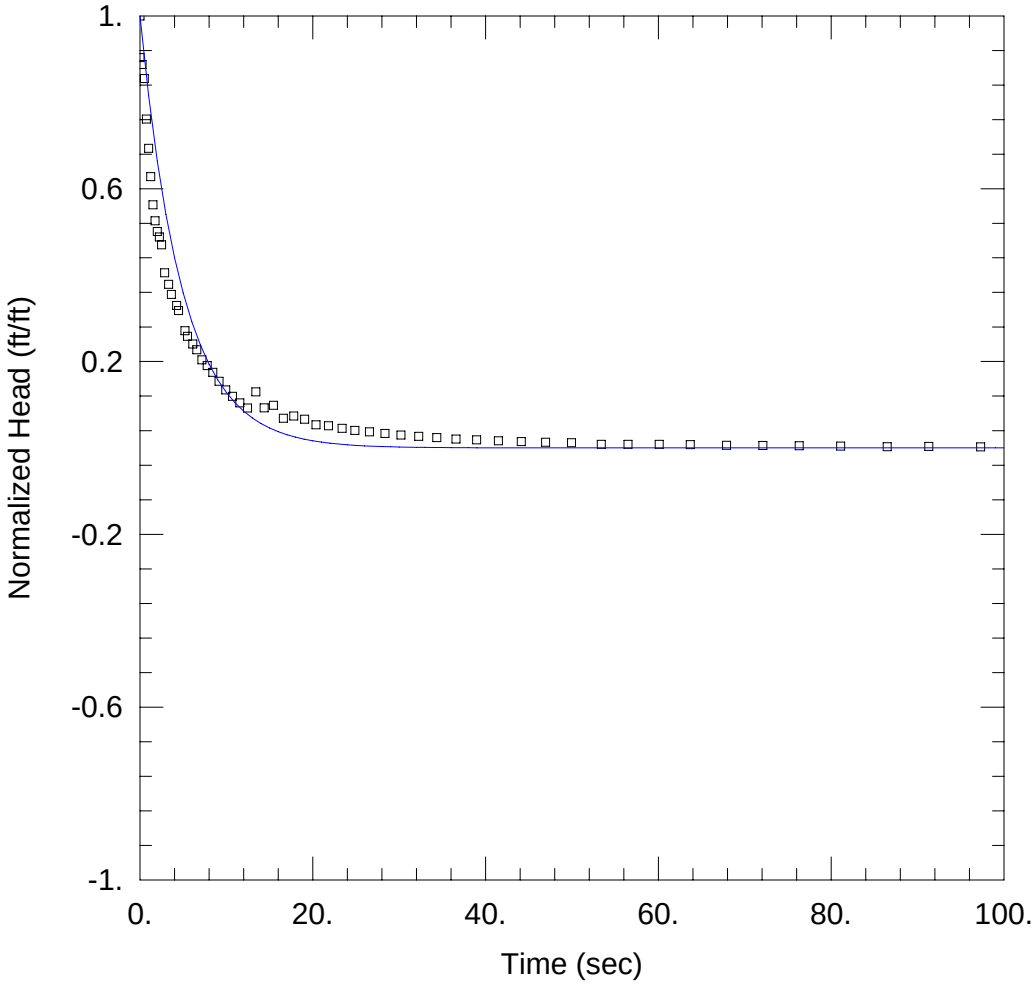
WELL DATA (KAFB 106083)

Initial Displacement: 2.5 ft
Total Well Penetration Depth: 31.5 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 36.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 71.91 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.000631 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB 106083 P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106083P1-SG.aqt
Date: 08/25/11 Time: 15:53:32

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106083
Test Date: 7/22/11

AQUIFER DATA

Saturated Thickness: 42. ft
Anisotropy Ratio (Kz/Kr): 0.1

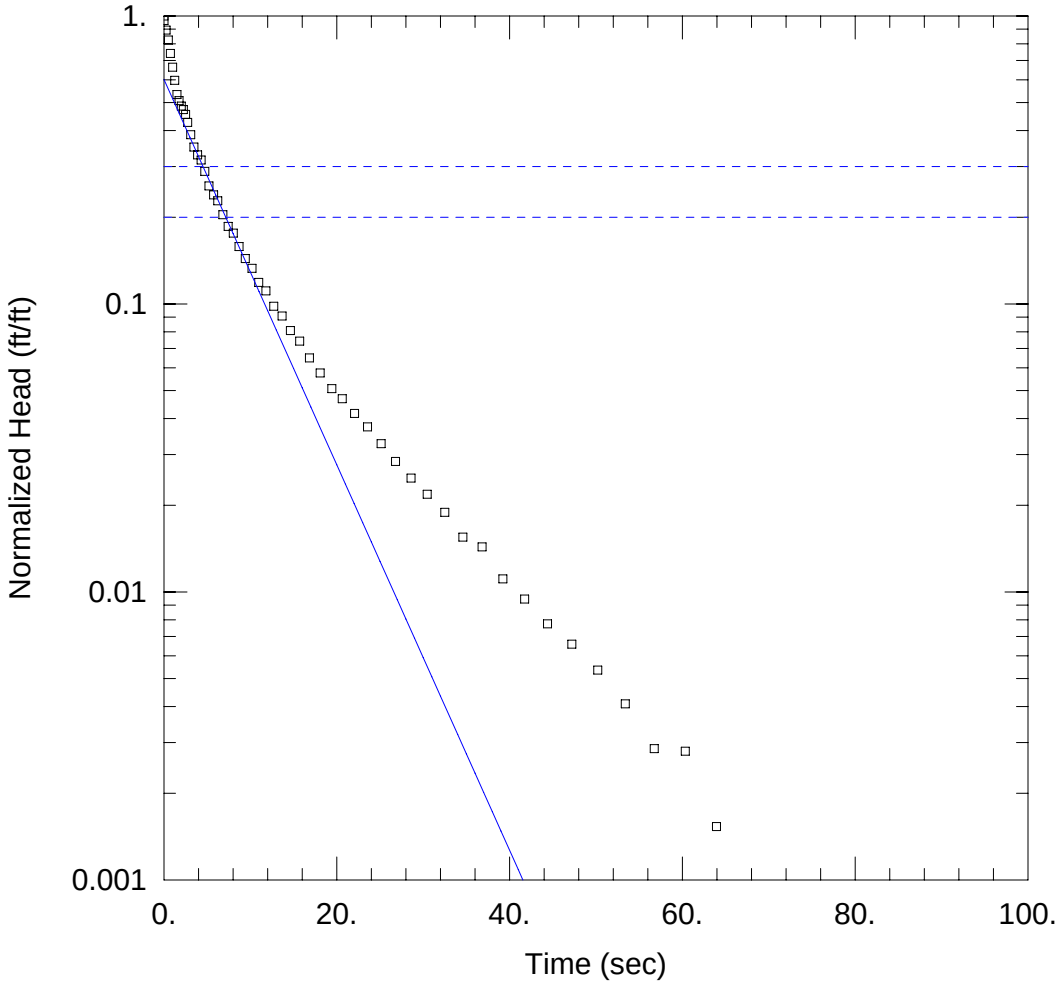
WELL DATA (KAFB 106083)

Initial Displacement: 2.5 ft
Total Well Penetration Depth: 31.5 ft
Casing Radius: 0.198 ft
Static Water Column Height: 36.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 99.77 ft/day
Le = 1. ft



KAFB 106083 P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106083P2-BR.aqt
Date: 08/25/11 Time: 15:55:25

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106083
Test Date: 7/22/11

AQUIFER DATA

Saturated Thickness: 42. ft
Anisotropy Ratio (Kz/Kr): 0.1

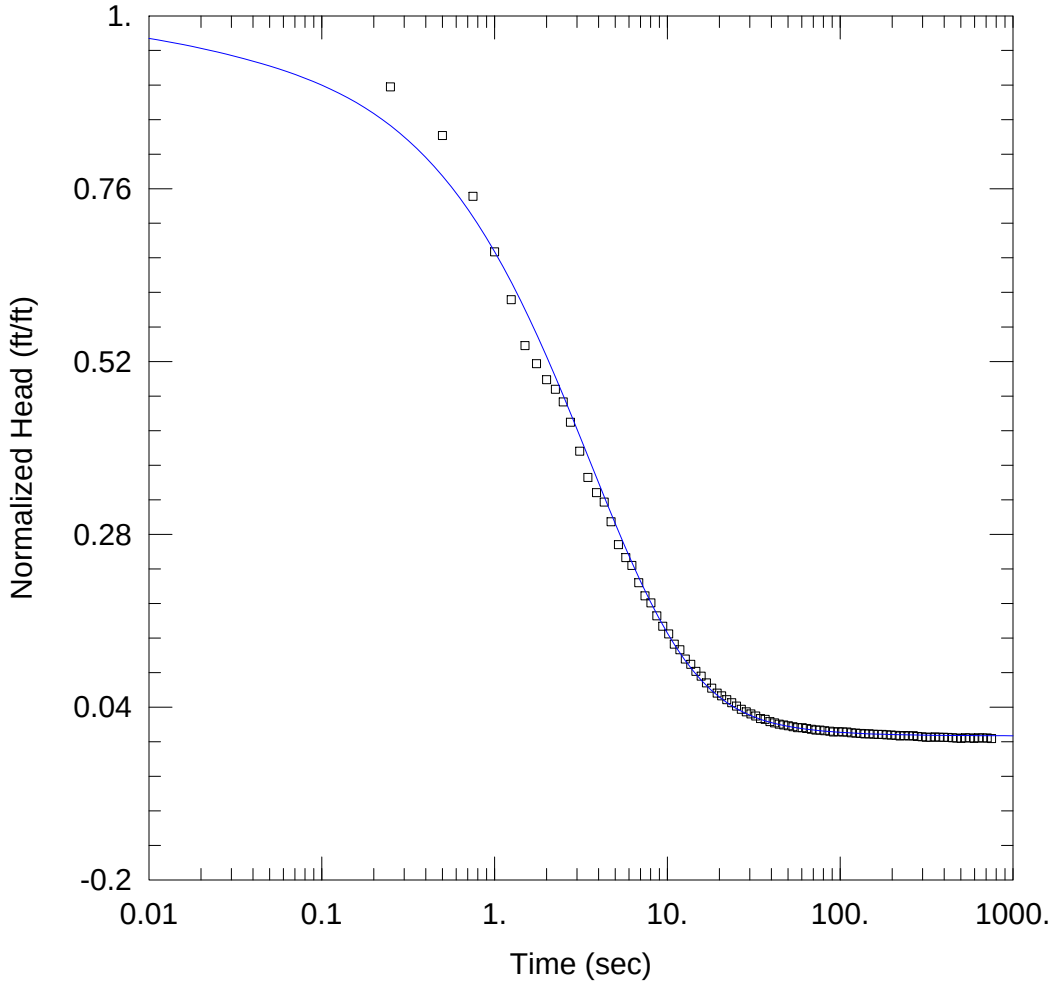
WELL DATA (KAFB 106083)

Initial Displacement: 2.3 ft
Total Well Penetration Depth: 31.5 ft
Casing Radius: 0.198 ft
Static Water Column Height: 36.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 74.89 ft/day
y0 = 1.383 ft



KAFB 106083 P2

Data Set: C:\...\KAFB106083P2-KGS[1].aqt
Date: 08/27/11 Time: 17:56:33

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106083
Test Date: 7/22/11

AQUIFER DATA

Saturated Thickness: 42. ft

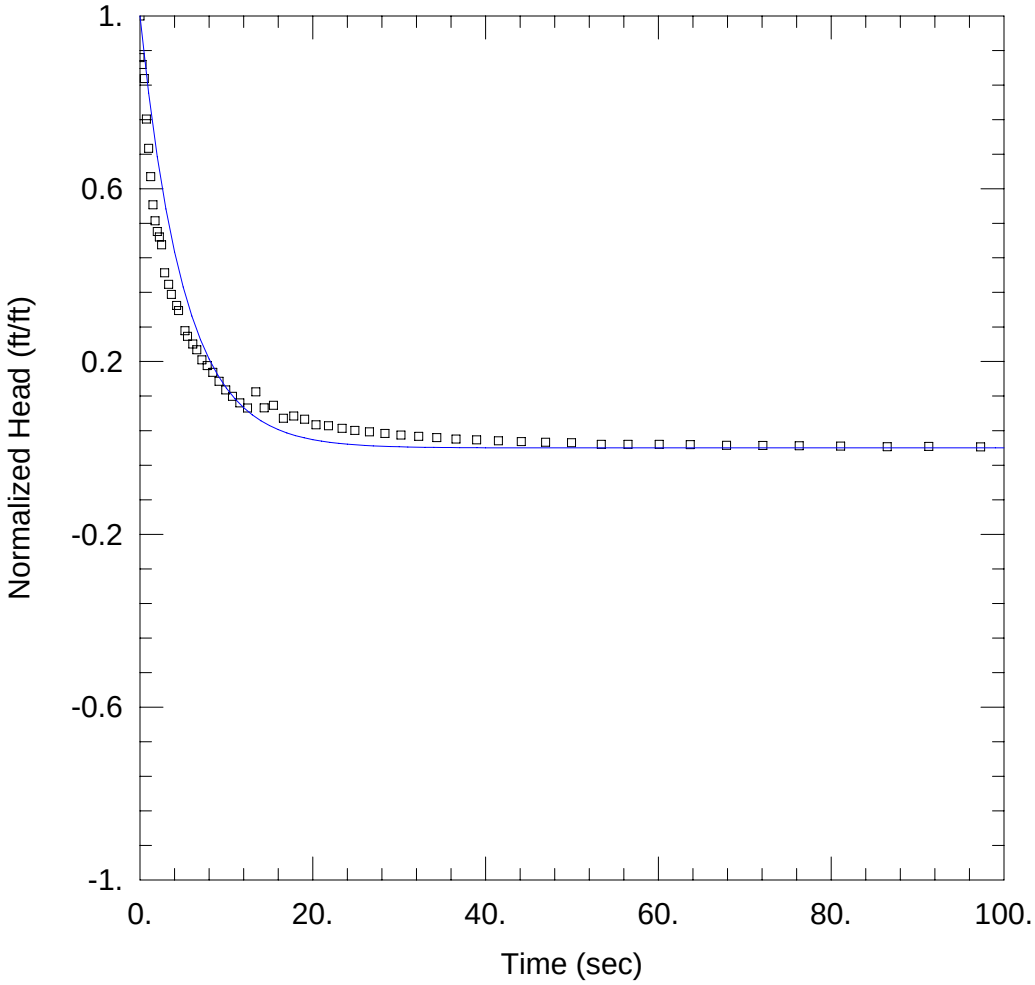
WELL DATA (KAFB 106083)

Initial Displacement: 2.3 ft
Total Well Penetration Depth: 31.5 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 36.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 78.42 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.0003055 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB 106083 P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106083P2-SG.aqt
Date: 08/25/11 Time: 15:56:52

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106083
Test Date: 7/22/11

AQUIFER DATA

Saturated Thickness: 42. ft
Anisotropy Ratio (Kz/Kr): 0.1

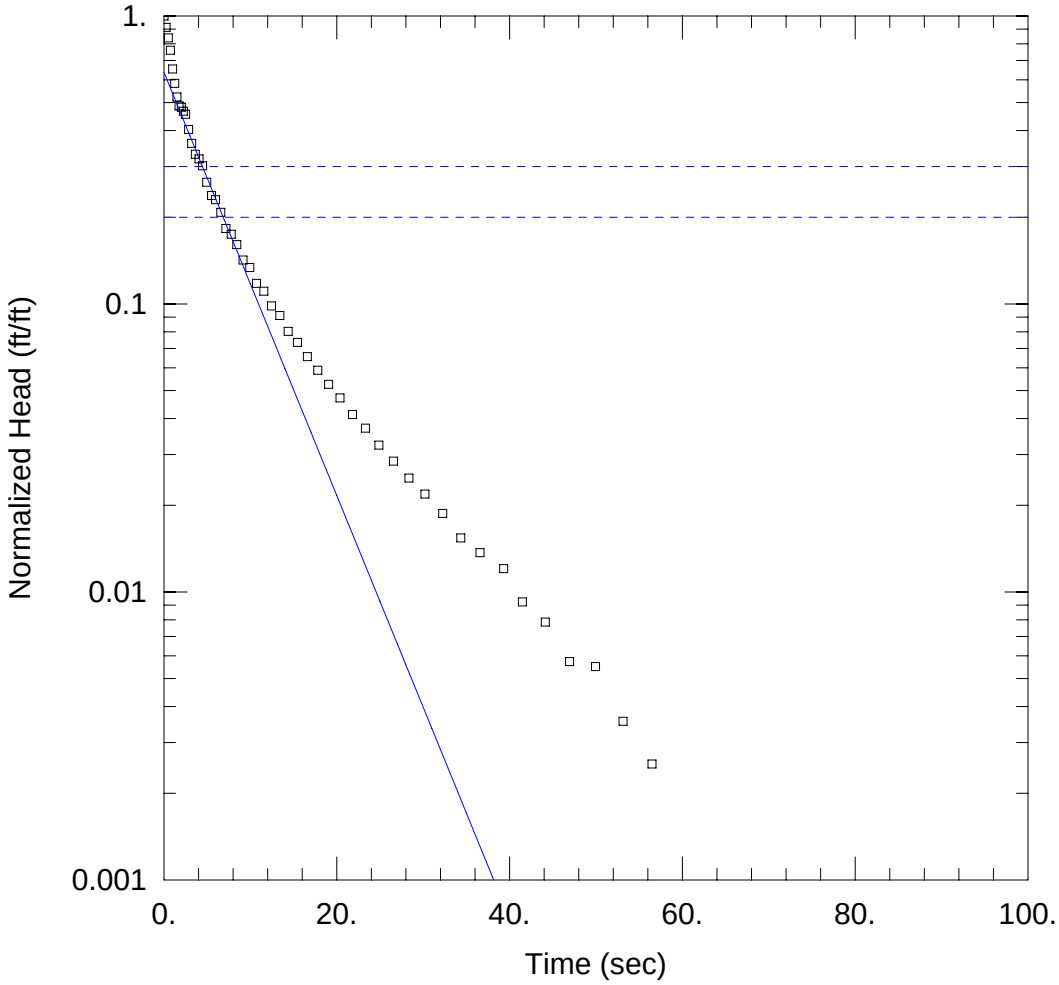
WELL DATA (KAFB 106083)

Initial Displacement: 2.5 ft
Total Well Penetration Depth: 31.5 ft
Casing Radius: 0.198 ft
Static Water Column Height: 36.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 96.11 ft/day
Le = 1. ft



KAFB 106083 P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106083P3-BR.aqt
Date: 08/25/11 Time: 15:58:49

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106083
Test Date: 7/22/11

AQUIFER DATA

Saturated Thickness: 42. ft
Anisotropy Ratio (Kz/Kr): 0.1

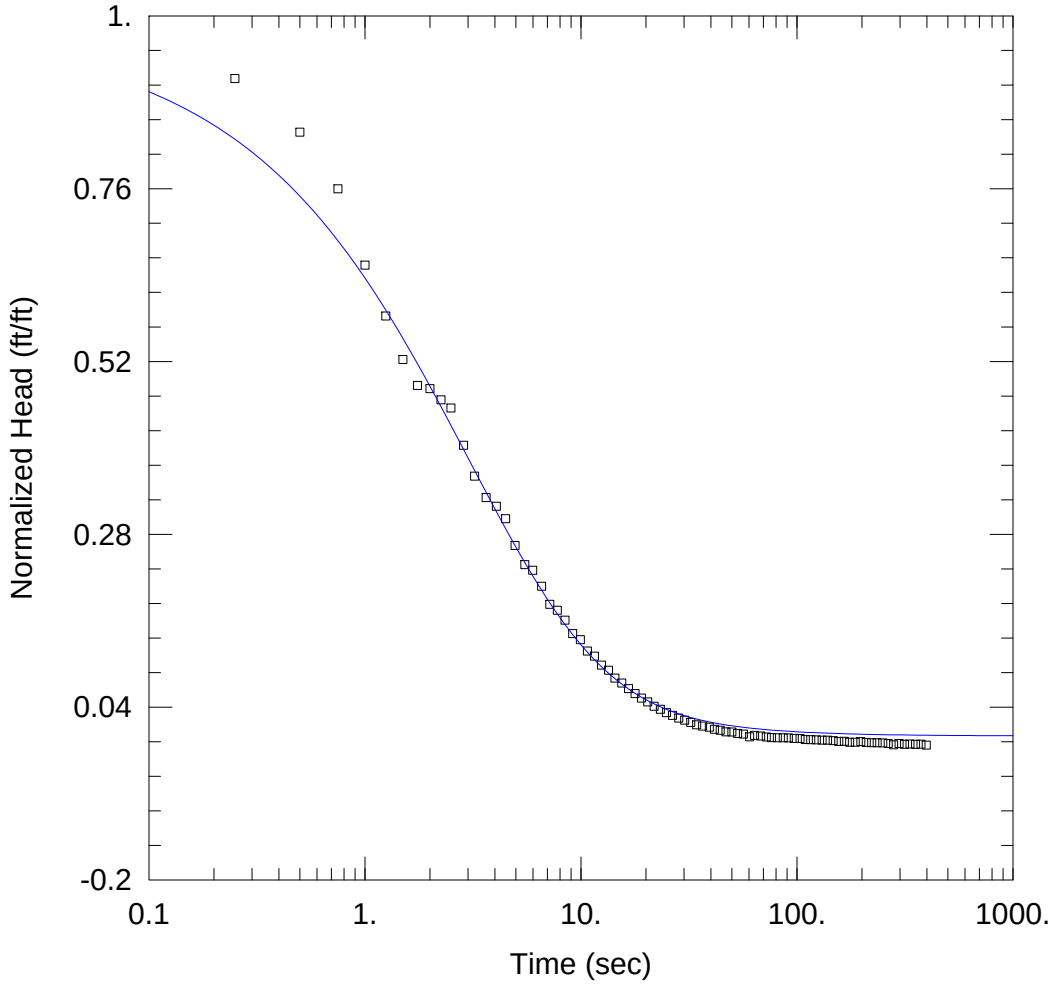
WELL DATA (KAFB 106083)

Initial Displacement: 1.971 ft
Total Well Penetration Depth: 31.5 ft
Casing Radius: 0.198 ft
Static Water Column Height: 36.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 82.27 ft/day
y0 = 1.256 ft



KAFB 106083 P3

Data Set: C:\...\KAFB106083P3-KGS[1].aqt
Date: 08/27/11 Time: 18:00:49

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106083
Test Date: 7/22/11

AQUIFER DATA

Saturated Thickness: 42. ft

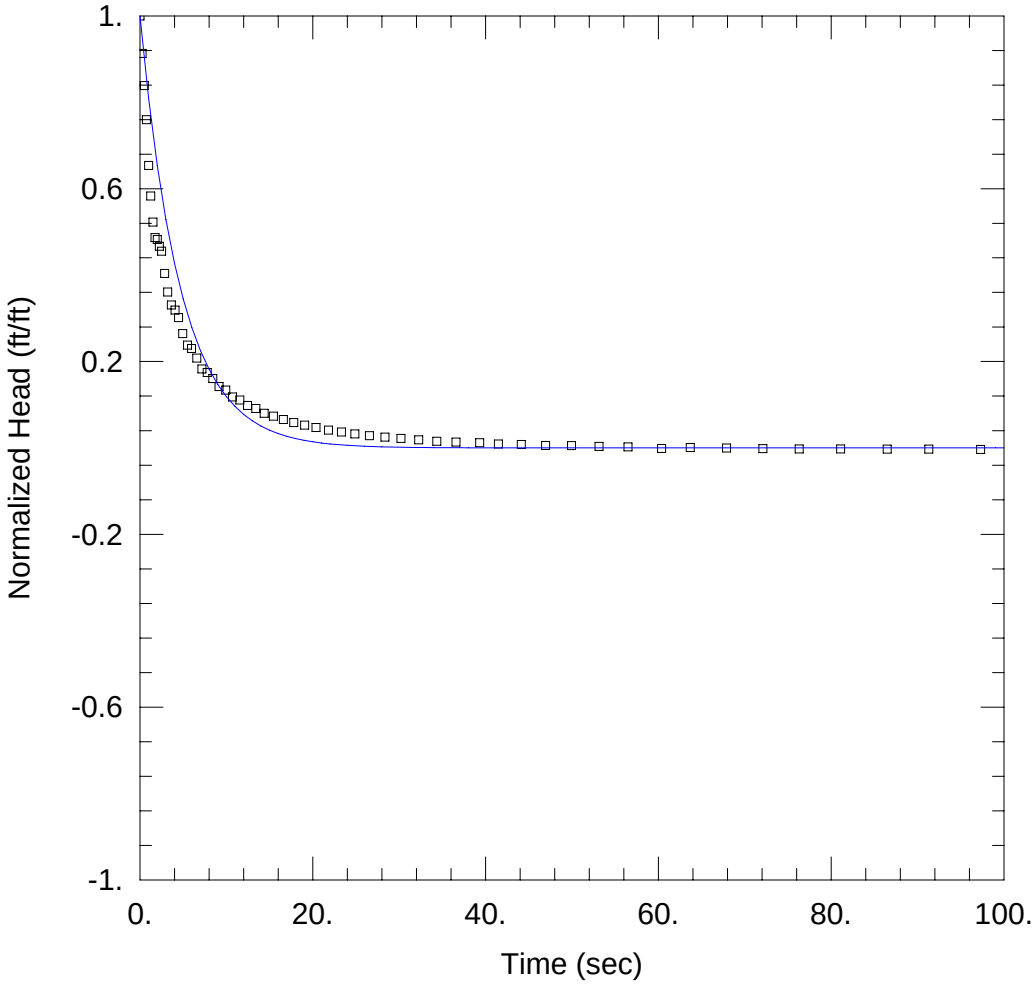
WELL DATA (KAFB 106083)

Initial Displacement: 1.971 ft
Total Well Penetration Depth: 31.5 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 36.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 78.57 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.000631 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB 106083 P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106083P3-SG.aqt
Date: 08/25/11 Time: 15:59:54

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106083
Test Date: 7/22/11

AQUIFER DATA

Saturated Thickness: 40. ft
Anisotropy Ratio (Kz/Kr): 0.1

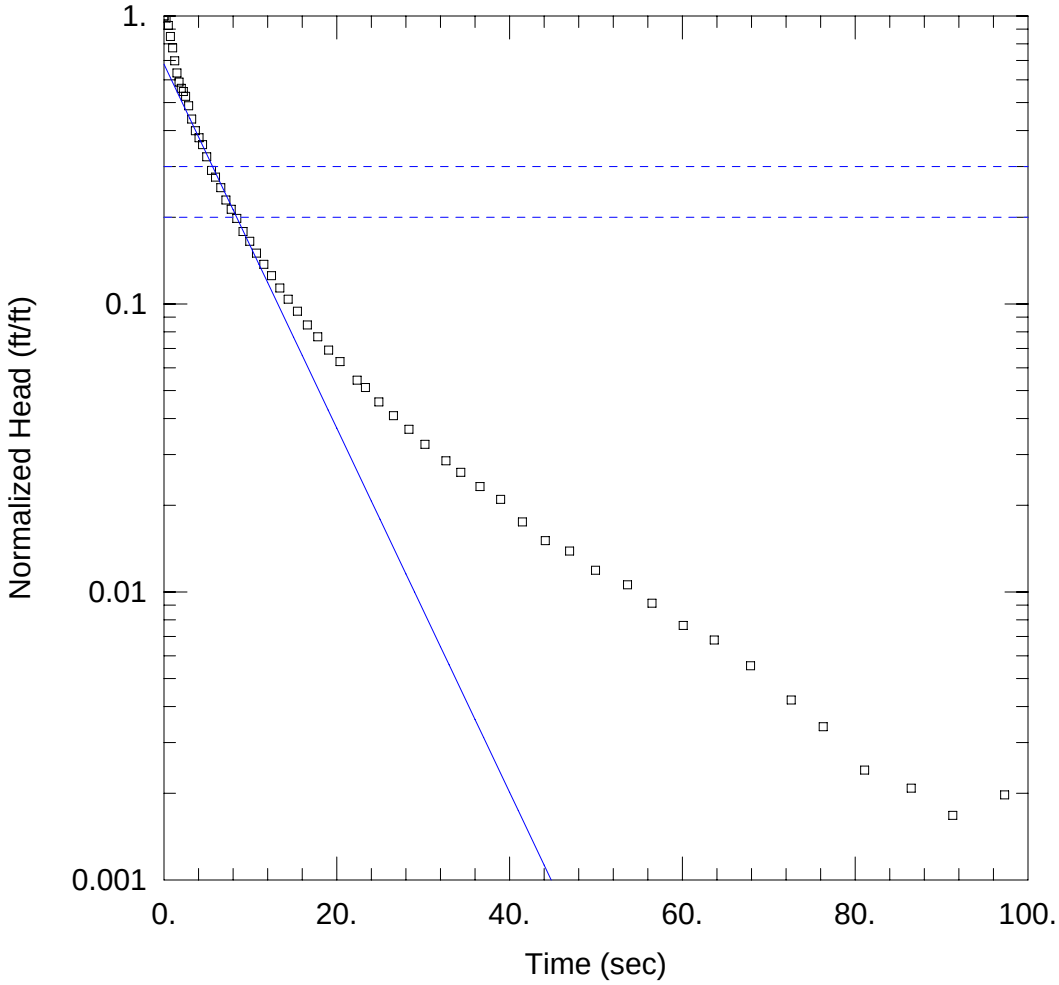
WELL DATA (KAFB 106083)

Initial Displacement: 1.971 ft
Total Well Penetration Depth: 31.5 ft
Casing Radius: 0.198 ft
Static Water Column Height: 36.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 104.1 ft/day
Le = 1. ft



KAFB 106083 P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106083P4-BR.aqt
Date: 08/25/11 Time: 16:01:44

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106083
Test Date: 7/22/11

AQUIFER DATA

Saturated Thickness: 42. ft
Anisotropy Ratio (Kz/Kr): 0.1

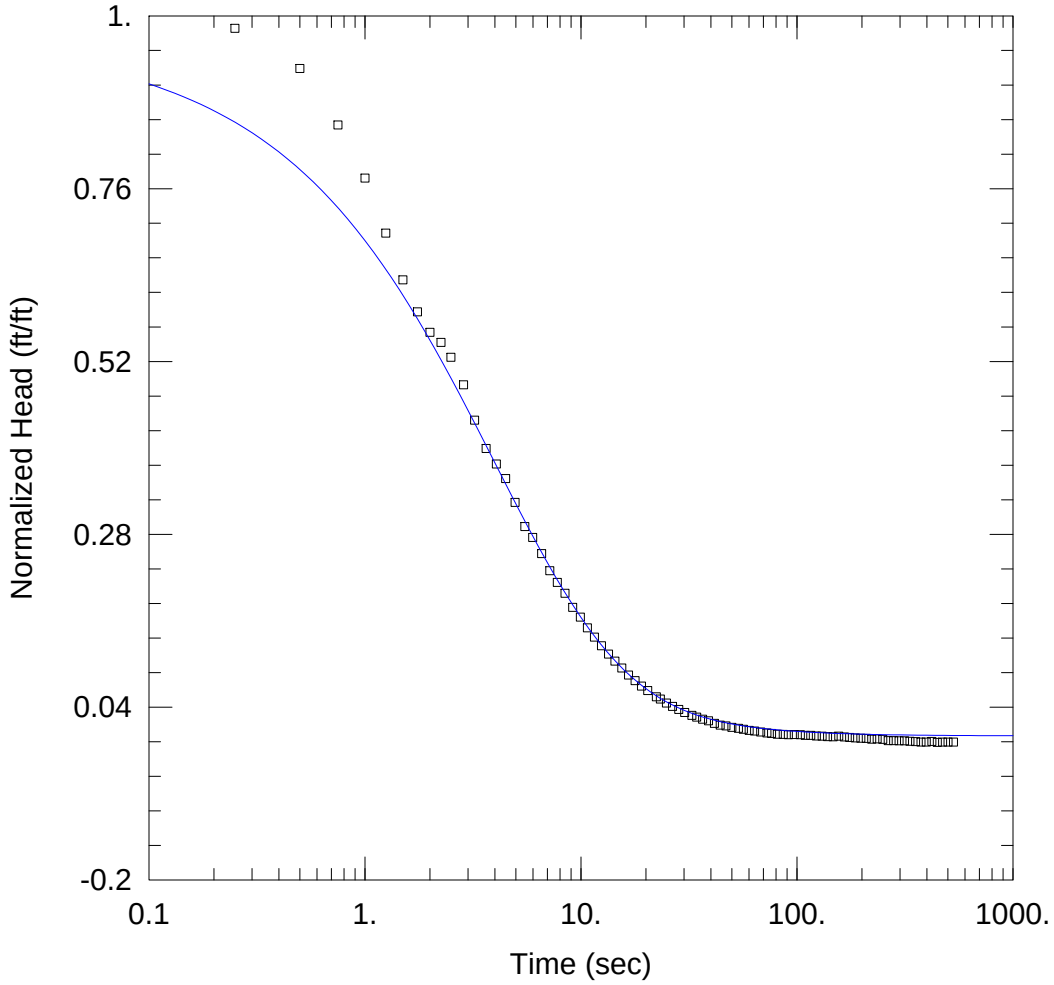
WELL DATA (KAFB 106083)

Initial Displacement: 2.341 ft
Total Well Penetration Depth: 31.5 ft
Casing Radius: 0.198 ft
Static Water Column Height: 36.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 70.75 ft/day
y0 = 1.591 ft



KAFB 106083 P4

Data Set: C:\...\KAFB106083P4-KGS[1].aqt
Date: 08/27/11 Time: 18:03:39

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106083
Test Date: 7/22/11

AQUIFER DATA

Saturated Thickness: 42. ft

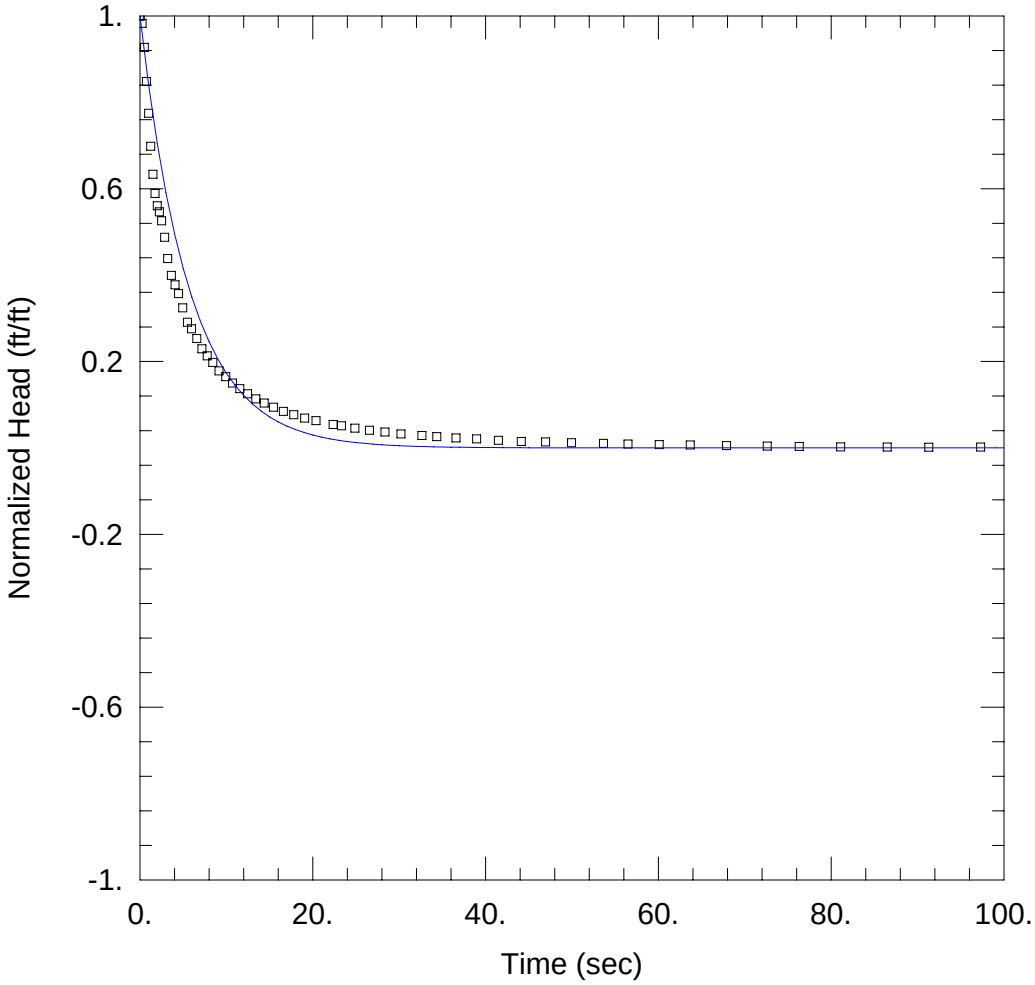
WELL DATA (KAFB 106083)

Initial Displacement: 2.341 ft
Total Well Penetration Depth: 31.5 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 36.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 67.57 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.0003388 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB 106083 P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106083P4-SG.aqt
Date: 08/25/11 Time: 16:02:42

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106083
Test Date: 7/22/11

AQUIFER DATA

Saturated Thickness: 42. ft
Anisotropy Ratio (Kz/Kr): 0.1

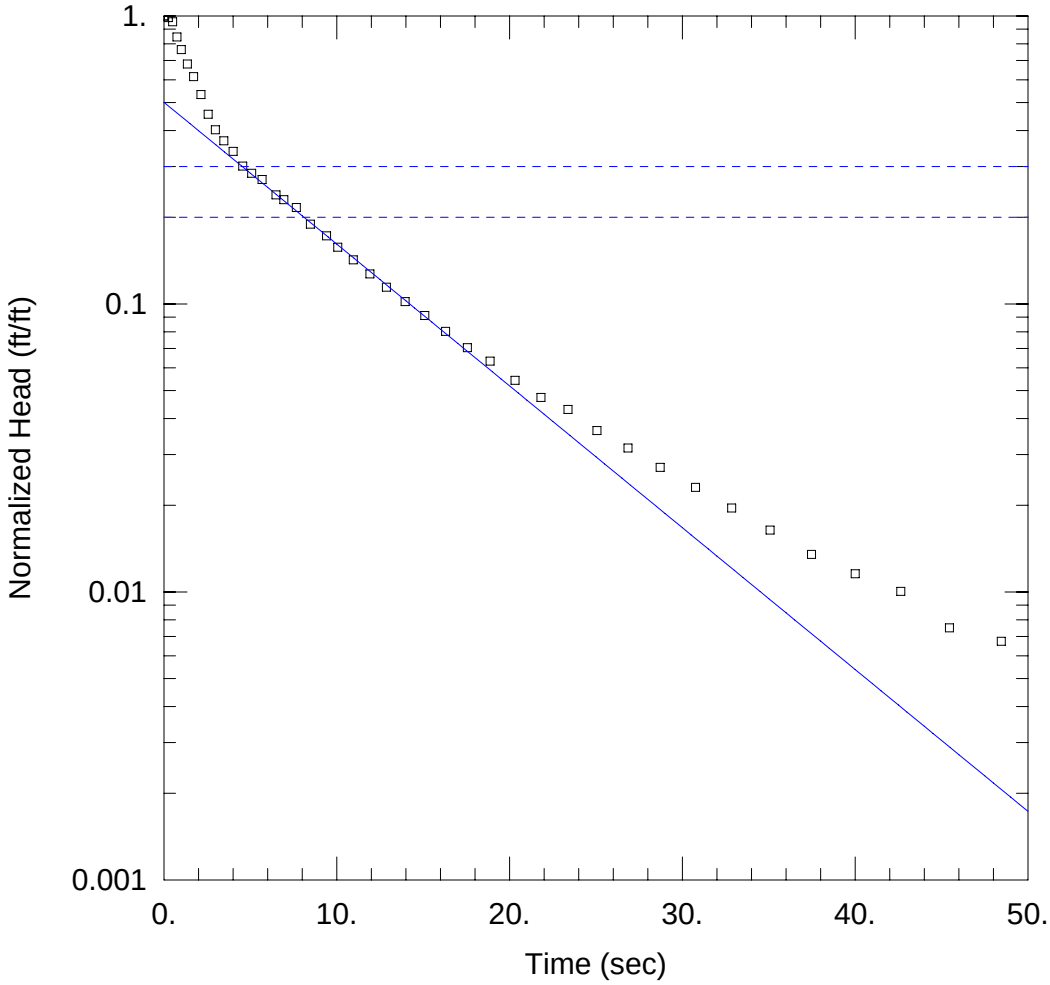
WELL DATA (KAFB 106083)

Initial Displacement: 2.341 ft
Total Well Penetration Depth: 31.5 ft
Casing Radius: 0.198 ft
Static Water Column Height: 36.7 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 85.35 ft/day
Le = 1. ft



KAFB106084P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106084P1-BR.aqt
Date: 08/25/11 Time: 16:13:19

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106084
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 29. ft
Anisotropy Ratio (Kz/Kr): 0.1

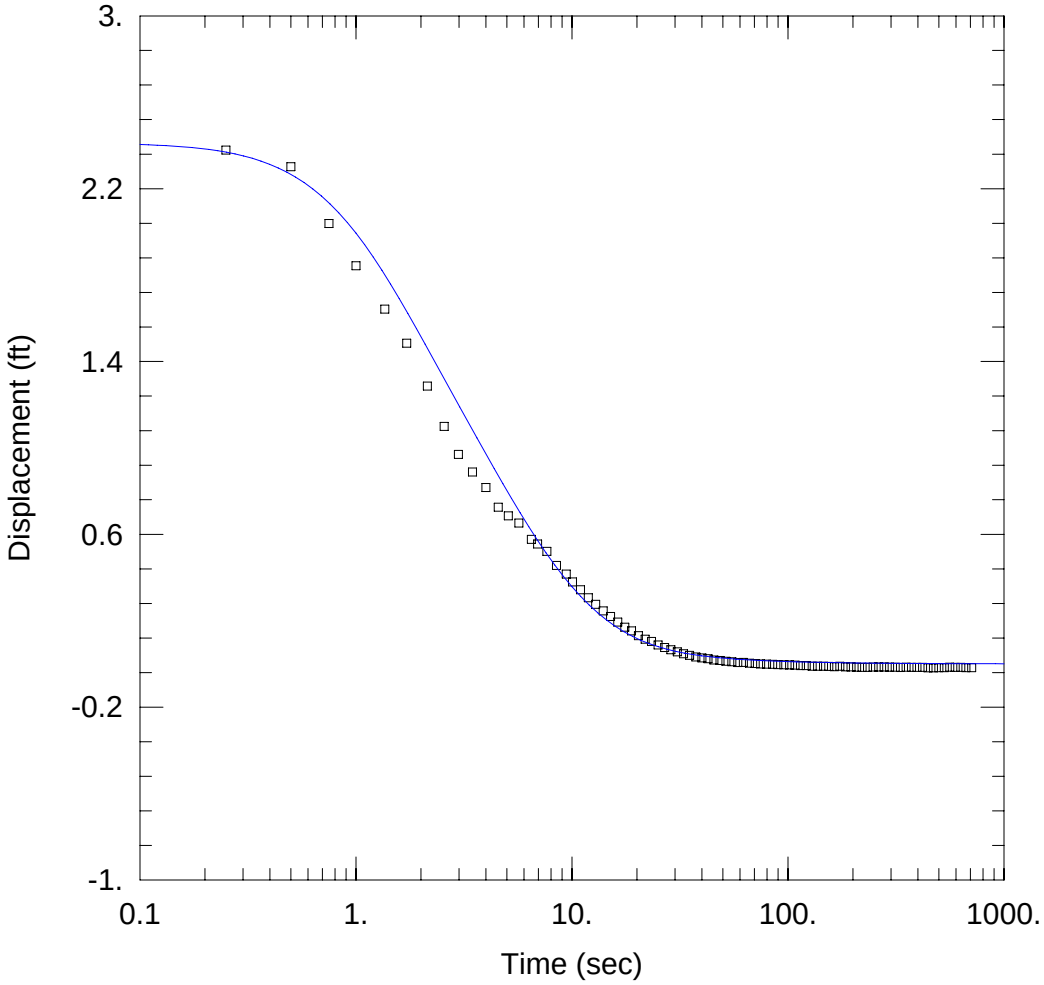
WELL DATA (KAFB106084)

Initial Displacement: 2.412 ft
Total Well Penetration Depth: 103.2 ft
Casing Radius: 0.198 ft
Static Water Column Height: 108. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 70.93 ft/day
y0 = 1.209 ft



KAFB106084P1

Data Set: C:\...\KAFB106084P1-BZ[1].aqt
Date: 08/25/11 Time: 16:23:07

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106084
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 29. ft Anisotropy Ratio (Kz/Kr): 0.01084

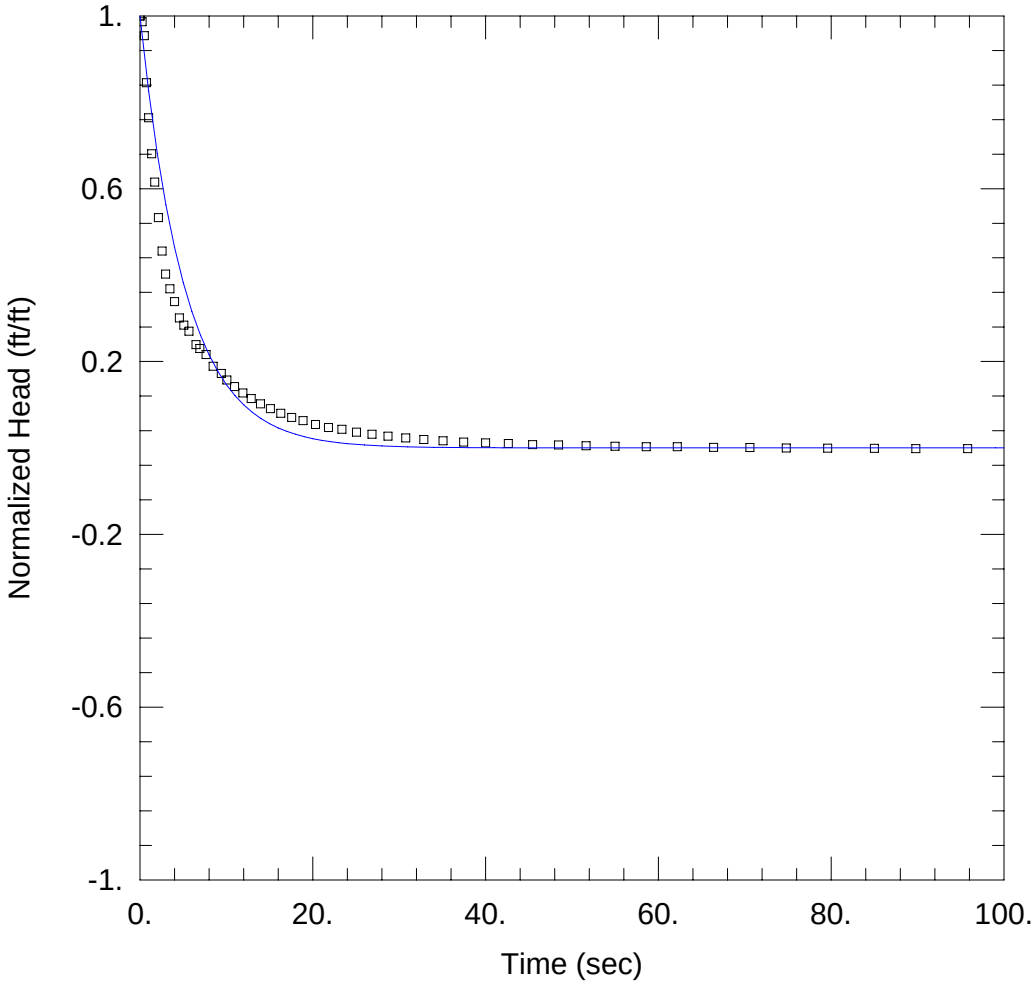
WELL DATA (KAFB106084)

Initial Displacement: 2.412 ft
Total Well Penetration Depth: 103.2 ft
Casing Radius: 0.198 ft
Static Water Column Height: 108. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 105.9 ft/day
Kz/Kr = 0.01084
Ss = 4.027E-5 ft^{-1}
Le = 50.12 ft



KAFB106084P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106084P1-SG.aqt
Date: 08/25/11 Time: 16:14:39

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106084
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 29. ft
Anisotropy Ratio (Kz/Kr): 0.1

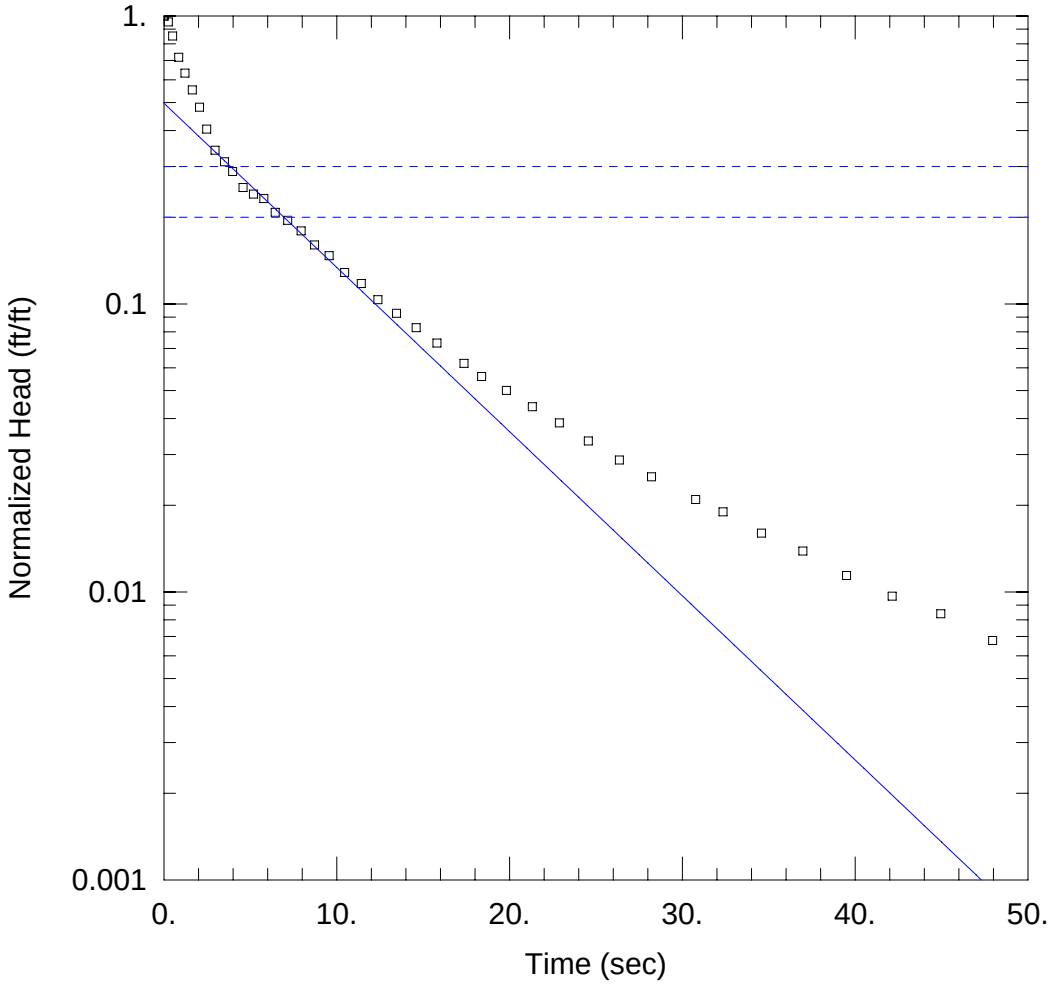
WELL DATA (KAFB106084)

Initial Displacement: 2.412 ft
Total Well Penetration Depth: 103.2 ft
Casing Radius: 0.198 ft
Static Water Column Height: 108. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 120.3 ft/day
Le = 1. ft



KAFB106084P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106084P2-BR.aqt
Date: 08/25/11 Time: 16:15:17

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106084
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 29. ft
Anisotropy Ratio (Kz/Kr): 0.1

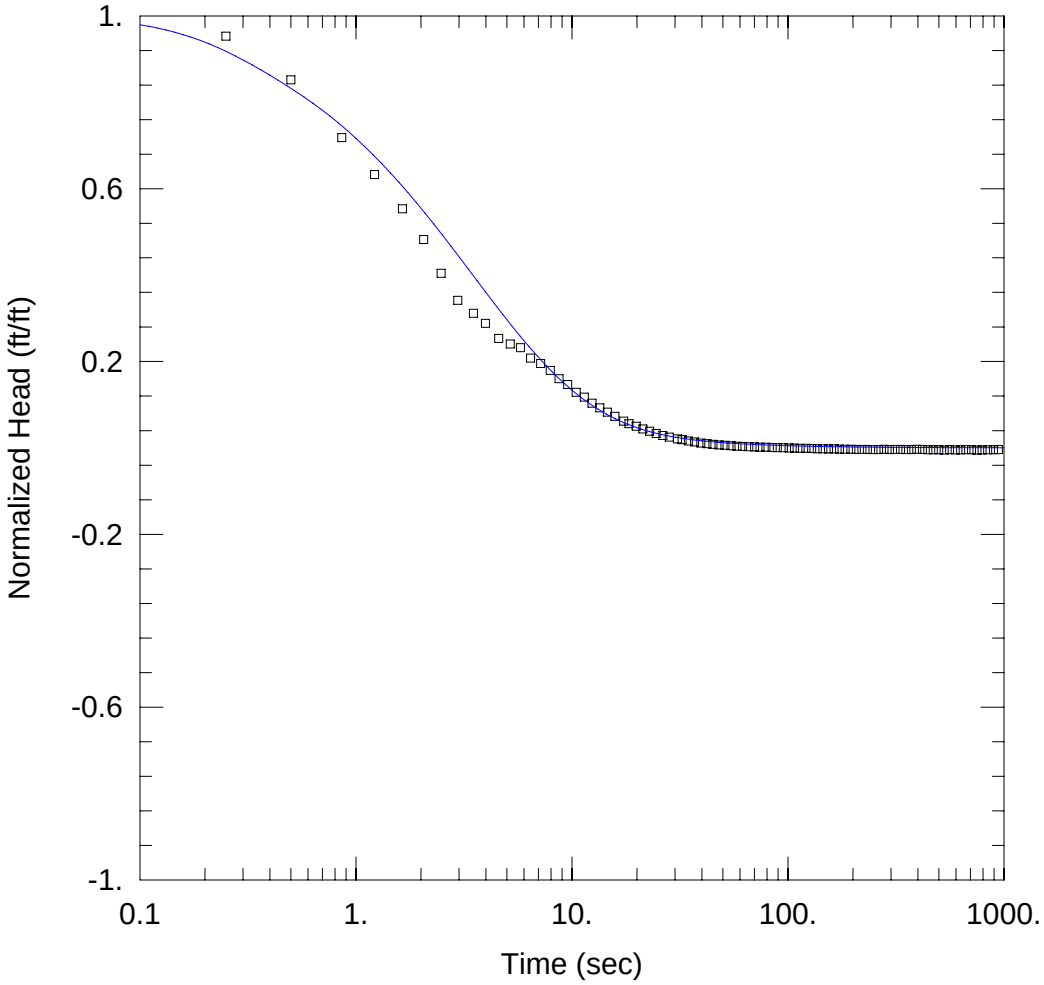
WELL DATA (KAFB106084)

Initial Displacement: 2.435 ft
Total Well Penetration Depth: 103.2 ft
Casing Radius: 0.198 ft
Static Water Column Height: 108. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 82.13 ft/day
y0 = 1.211 ft



KAFB106084P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106084P2-BZ.aqt
Date: 08/25/11 Time: 16:24:58

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106084
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 29. ft
Anisotropy Ratio (Kz/Kr): 0.01531

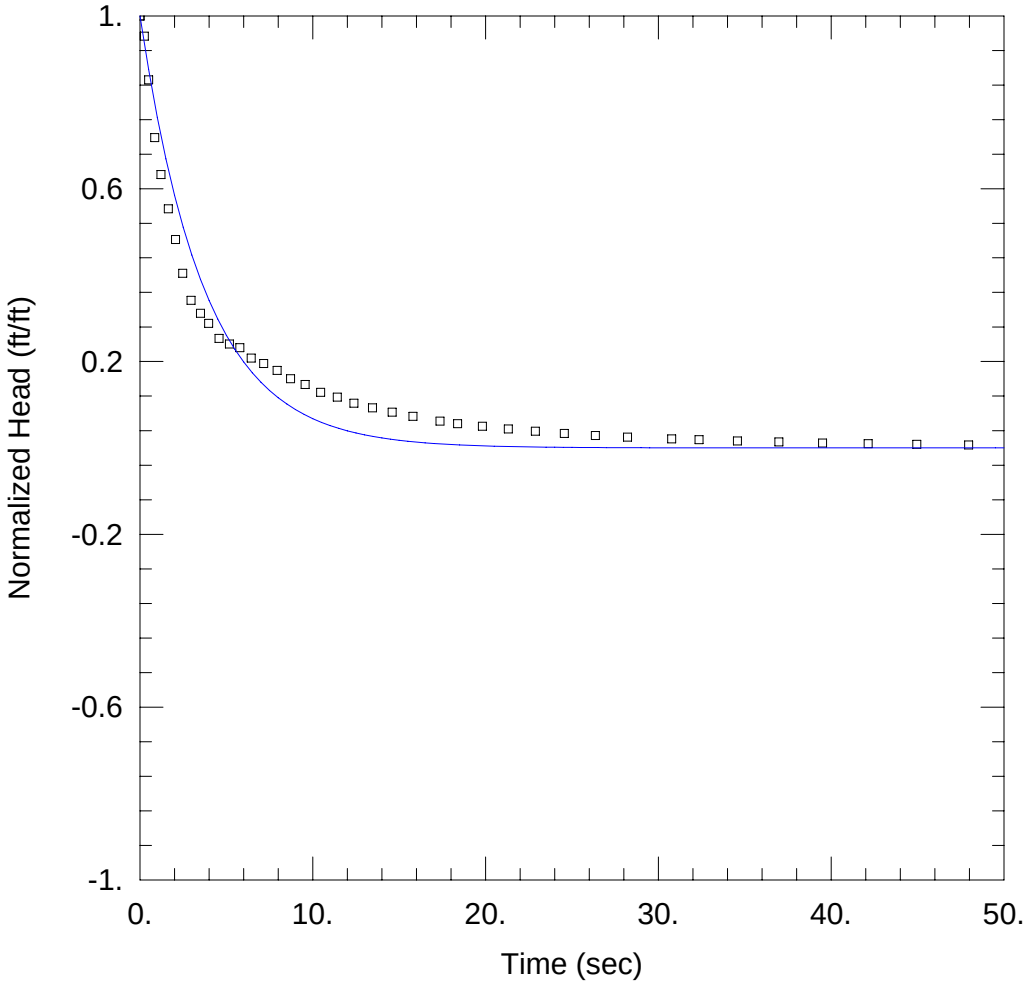
WELL DATA (KAFB106084)

Initial Displacement: 2.435 ft
Total Well Penetration Depth: 103.2 ft
Casing Radius: 0.198 ft
Static Water Column Height: 108. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 102. ft/day
Kz/Kr = 0.01531
Ss = 0.0001764 ft^{-1}
Le = 6.31 ft



KAFB106084P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106084P2-SG.aqt
Date: 08/25/11 Time: 16:16:10

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106084
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 29. ft
Anisotropy Ratio (Kz/Kr): 0.1

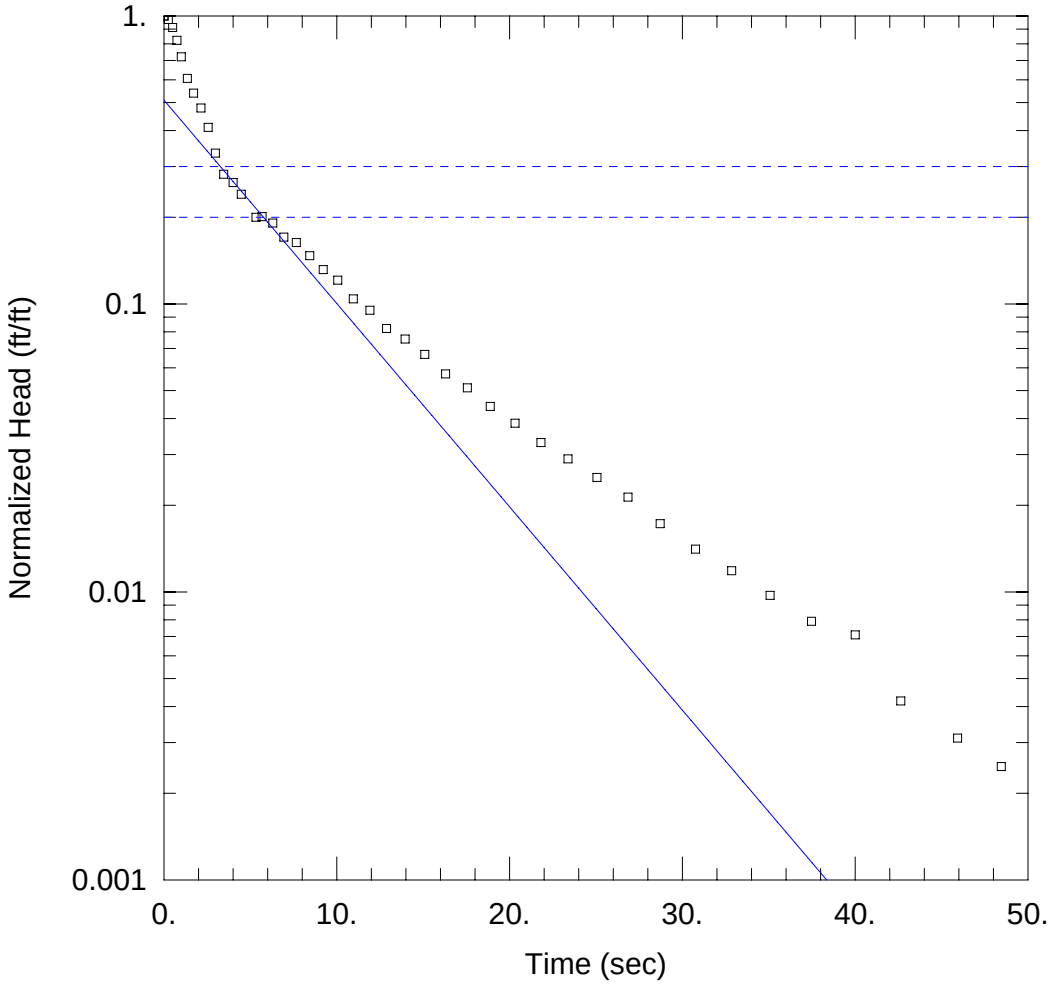
WELL DATA (KAFB106084)

Initial Displacement: 2.435 ft
Total Well Penetration Depth: 103.2 ft
Casing Radius: 0.198 ft
Static Water Column Height: 108. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 168.5 ft/day
Le = 1. ft



KAFB106084P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106084P3-BR.aqt
Date: 08/25/11 Time: 16:17:03

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106084
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 29. ft
Anisotropy Ratio (Kz/Kr): 0.1

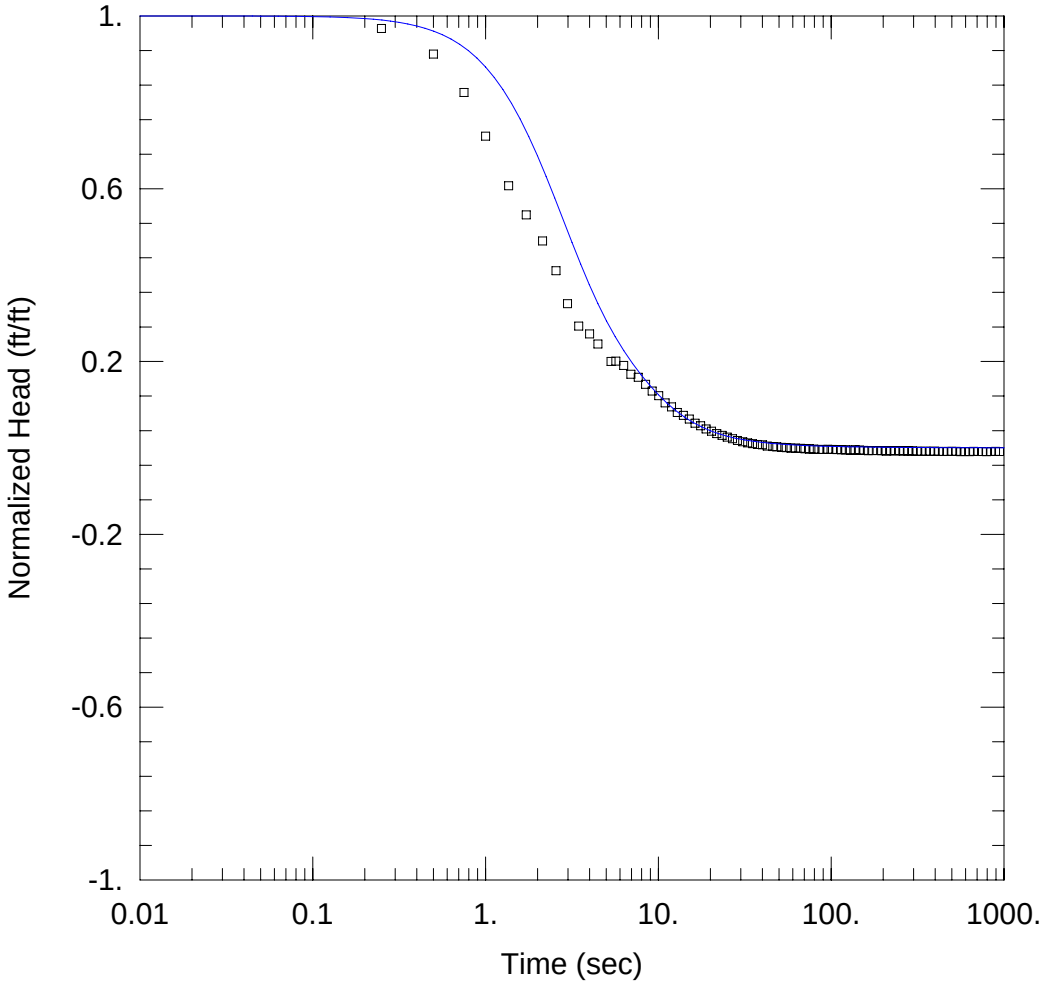
WELL DATA (KAFB106084)

Initial Displacement: 2.408 ft
Total Well Penetration Depth: 103.2 ft
Casing Radius: 0.198 ft
Static Water Column Height: 108. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 101.7 ft/day
y0 = 1.227 ft



KAFB106084P3

Data Set: C:\...\KAFB106084P3-BZ[1].aqt
Date: 08/25/11 Time: 16:38:29

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106084
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 29. ft
Anisotropy Ratio (Kz/Kr): 0.1216

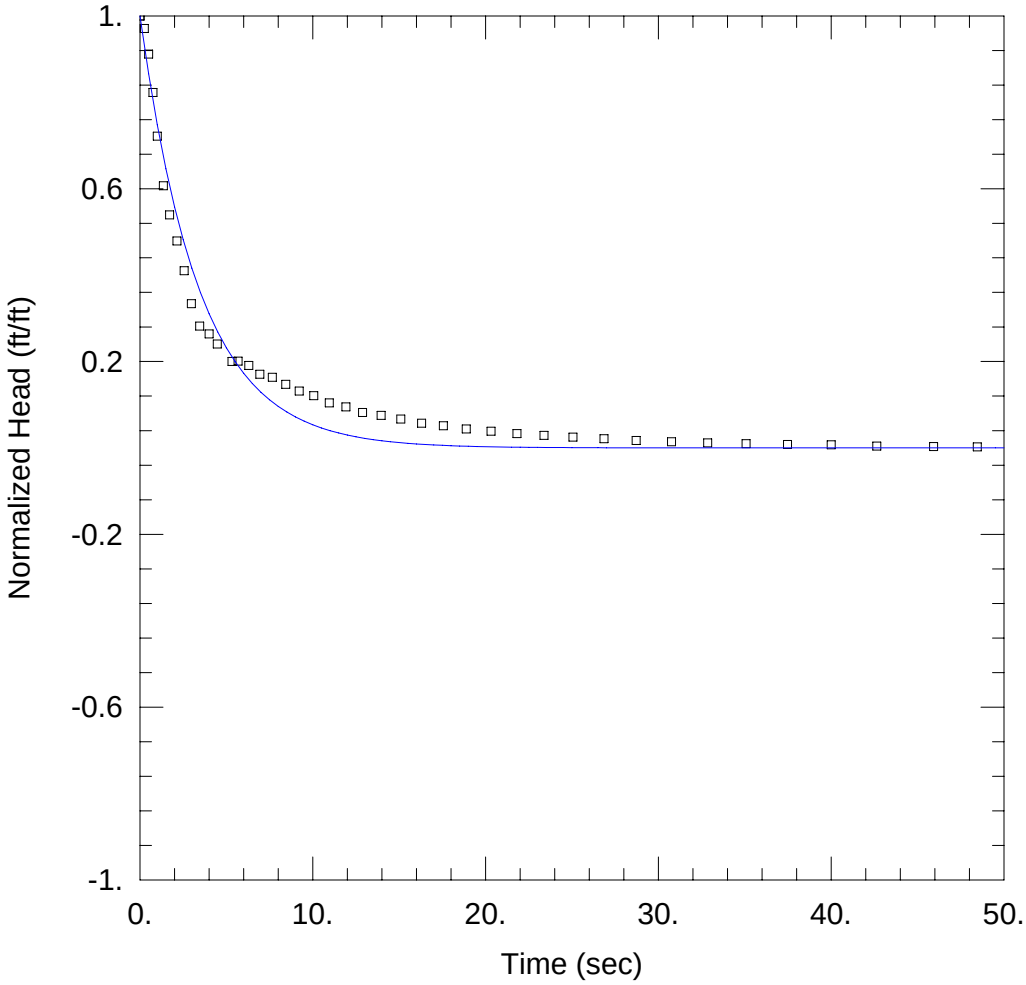
WELL DATA (KAFB106084)

Initial Displacement: 2.408 ft
Total Well Penetration Depth: 103.2 ft
Casing Radius: 0.198 ft
Static Water Column Height: 108. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 102.1 ft/day
Kz/Kr = 0.1216
Ss = 7.161E-5 ft^{-1}
Le = 100. ft



KAFB106084P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106084P3-SG.aqt
Date: 08/25/11 Time: 16:17:49

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106084
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 29. ft
Anisotropy Ratio (Kz/Kr): 0.1

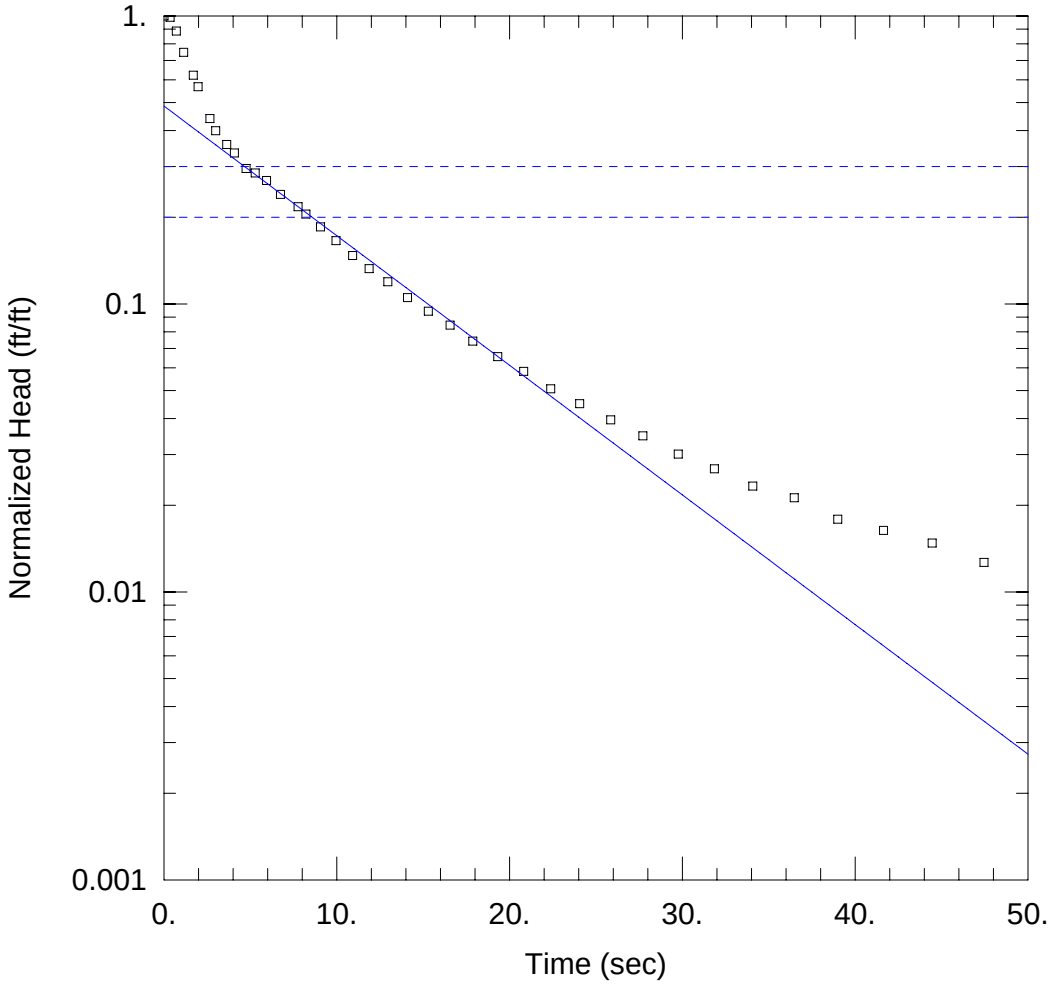
WELL DATA (KAFB106084)

Initial Displacement: 2.408 ft
Total Well Penetration Depth: 103.2 ft
Casing Radius: 0.198 ft
Static Water Column Height: 108. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 183.3 ft/day
Le = 1. ft



KAFB106084P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106084P4-BR.aqt
Date: 08/25/11 Time: 16:18:34

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106084
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 29. ft
Anisotropy Ratio (Kz/Kr): 0.1

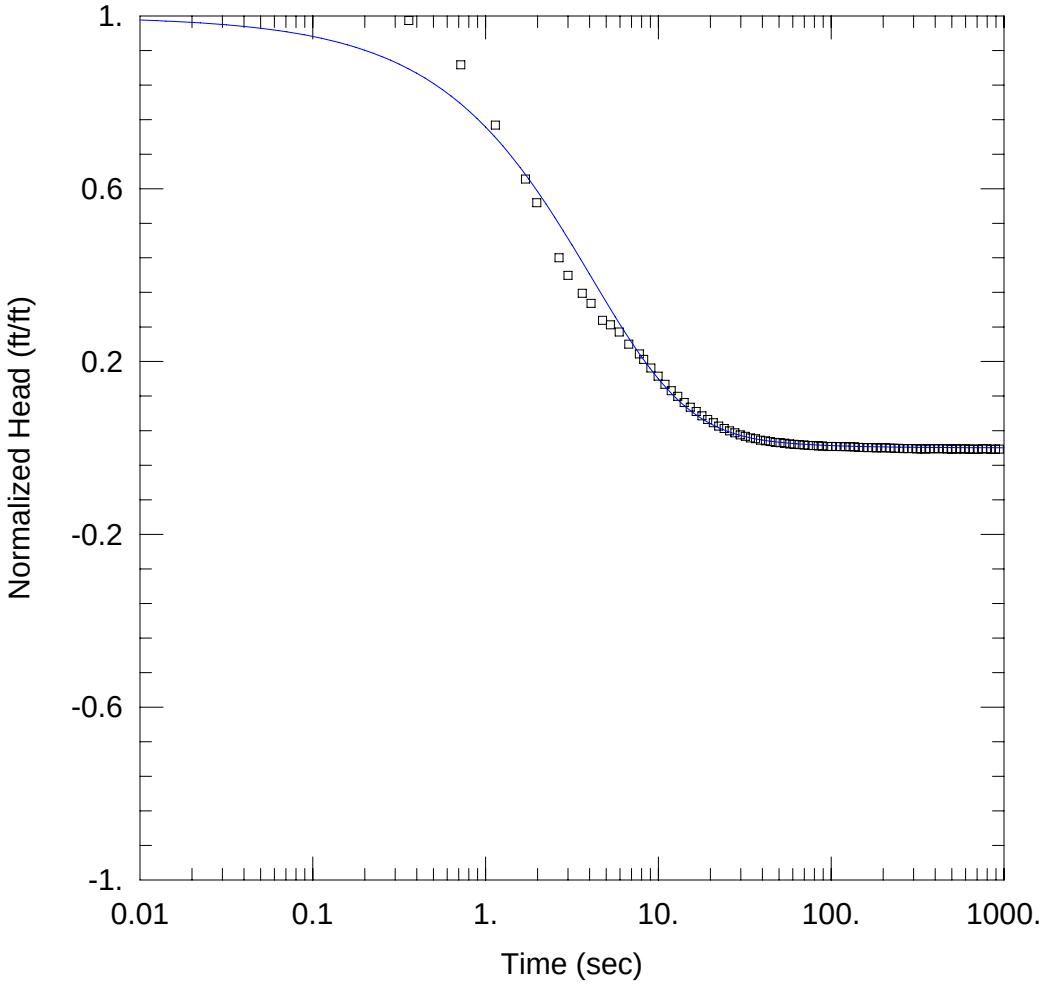
WELL DATA (KAFB106084)

Initial Displacement: 2.445 ft
Total Well Penetration Depth: 103.2 ft
Casing Radius: 0.198 ft
Static Water Column Height: 108. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 64.84 ft/day
y0 = 1.189 ft



KAFB106084P4

Data Set: C:\...\KAFB106084P4-KGS[1].aqt
Date: 08/25/11 Time: 16:39:44

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106084
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 29. ft

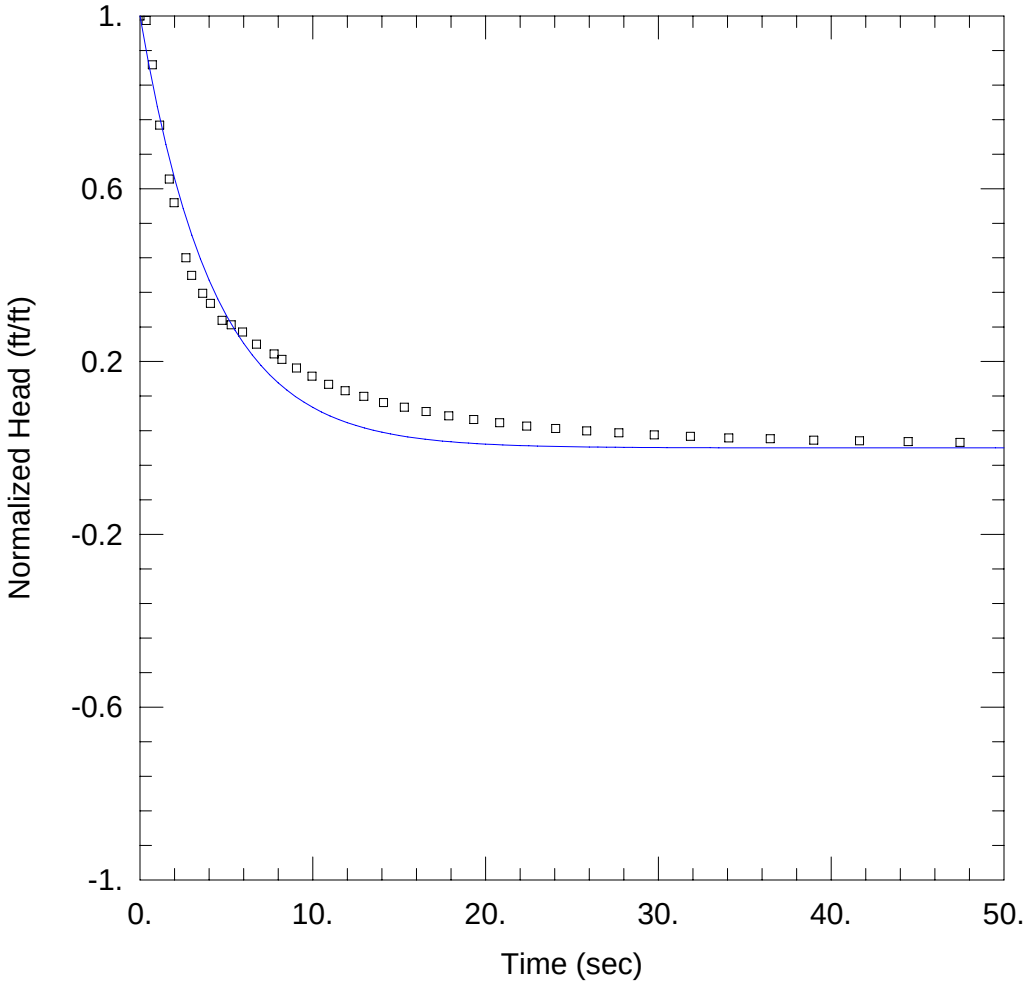
WELL DATA (KAFB106084)

Initial Displacement: 2.445 ft
Total Well Penetration Depth: 103.2 ft
Casing Radius: 0.198 ft
Static Water Column Height: 108. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 94.93 ft/day
Kz/Kr = 0.01216
Ss = 0.0001084 ft^{-1}



KAFB106084P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106084P4-SG.aqt
Date: 08/25/11 Time: 16:19:29

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106084
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 29. ft
Anisotropy Ratio (Kz/Kr): 0.1

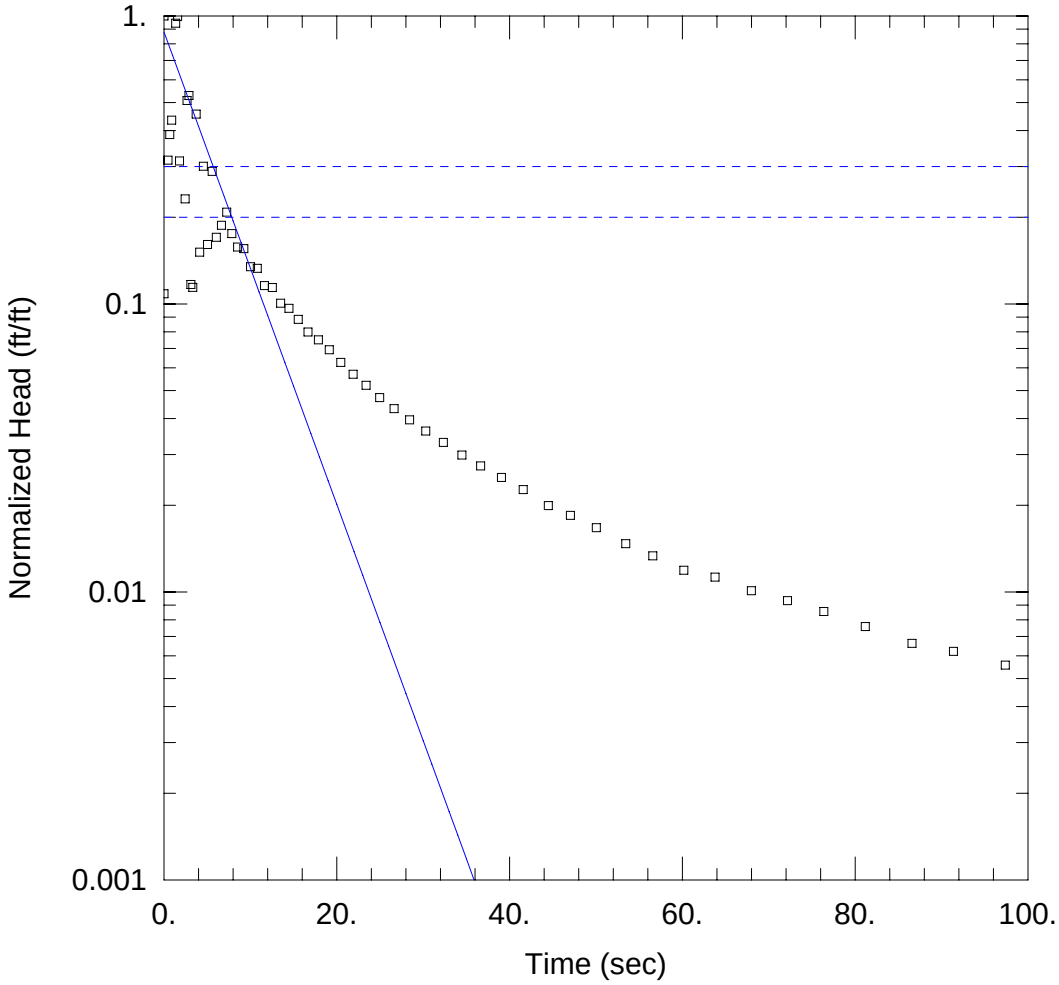
WELL DATA (KAFB106084)

Initial Displacement: 2.445 ft
Total Well Penetration Depth: 103.2 ft
Casing Radius: 0.198 ft
Static Water Column Height: 108. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 148.2 ft/day
Le = 1. ft



KAFB106086IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106086IN-BR.aqt
Date: 08/26/11 Time: 09:04:35

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106086
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 44. ft
Anisotropy Ratio (Kz/Kr): 0.1

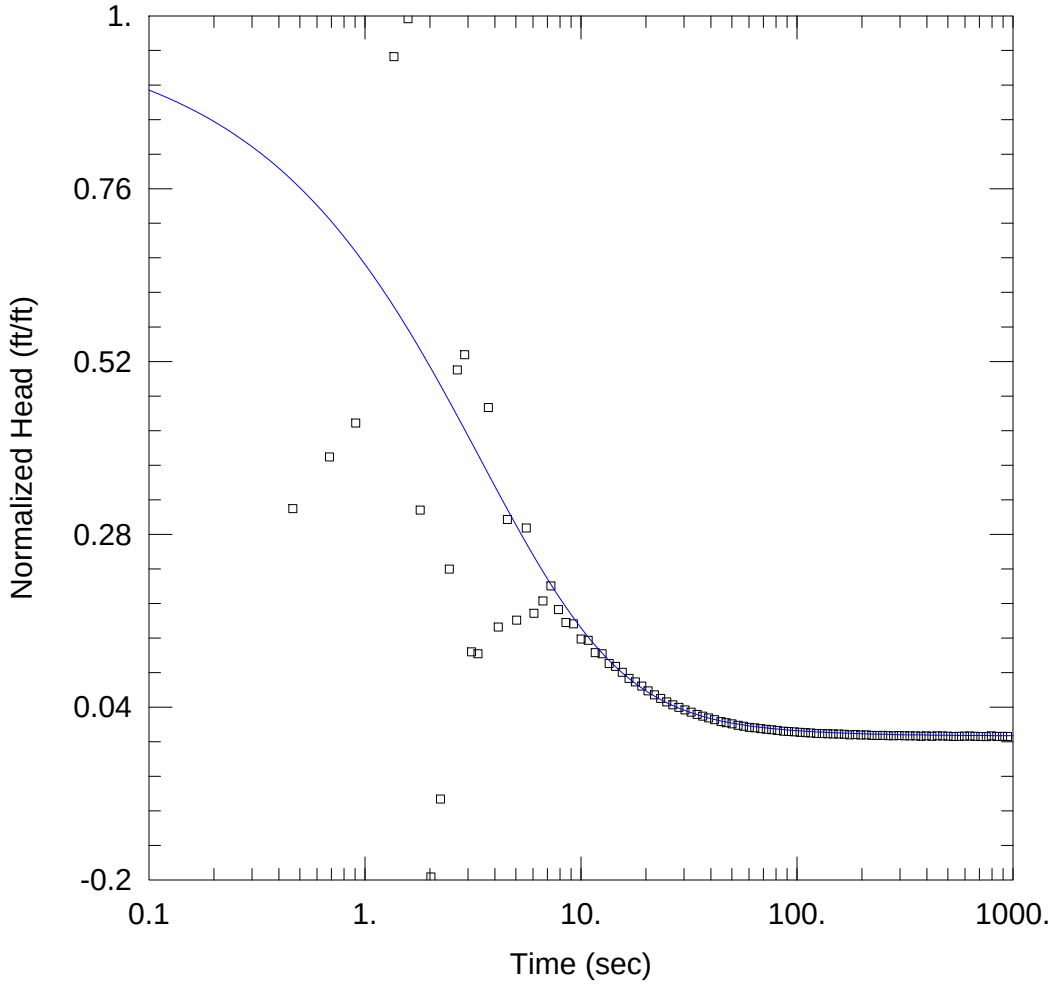
WELL DATA (KAFB106086)

Initial Displacement: 8.2 ft
Total Well Penetration Depth: 29.6 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.6 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 90.45 ft/day
y0 = 7.213 ft



KAFB106086IN

Data Set: C:\...\KAFB106086IN-KGS[1].aqt
Date: 08/27/11 Time: 18:08:08

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106086
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 44. ft

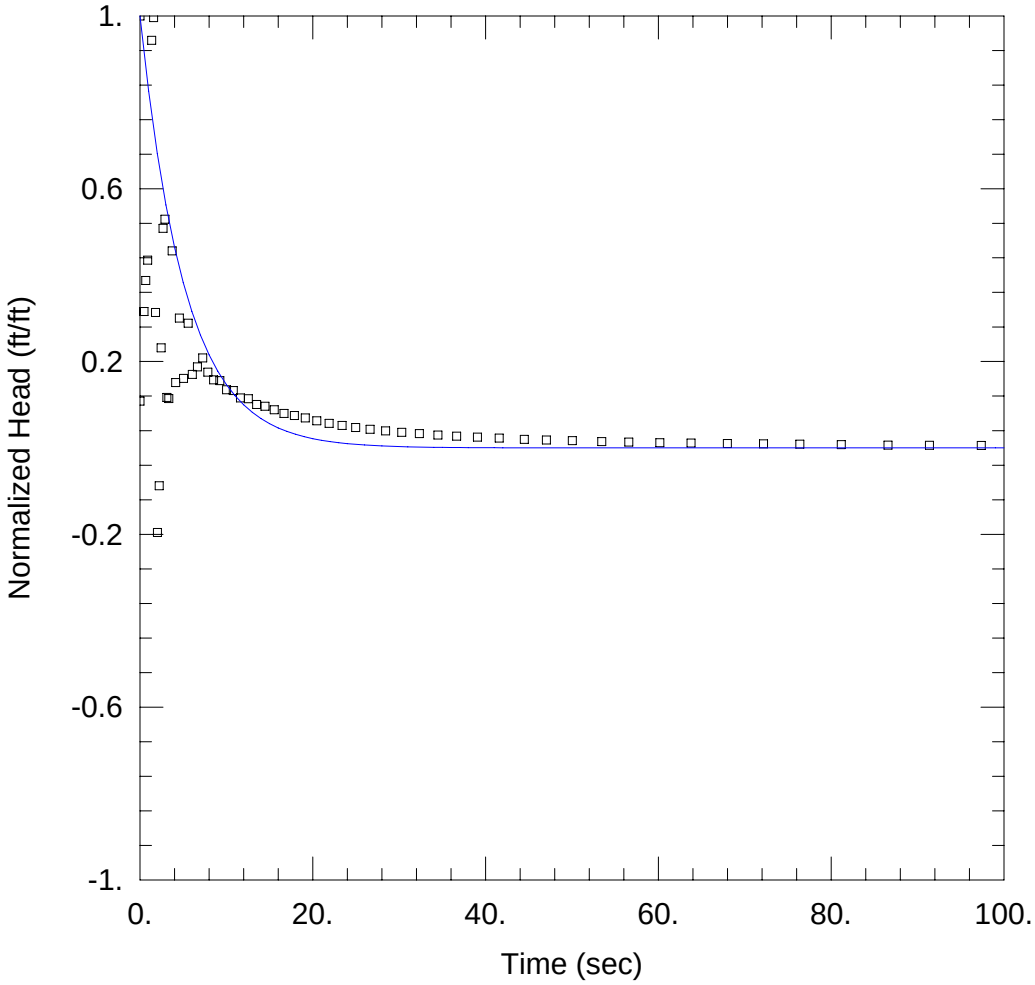
WELL DATA (KAFB106086)

Initial Displacement: 8.2 ft
Total Well Penetration Depth: 29.6 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 34.6 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 65.52 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.0006998 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106086IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106086IN-SG.aqt
Date: 08/26/11 Time: 09:05:44

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106086
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 44. ft
Anisotropy Ratio (Kz/Kr): 0.1

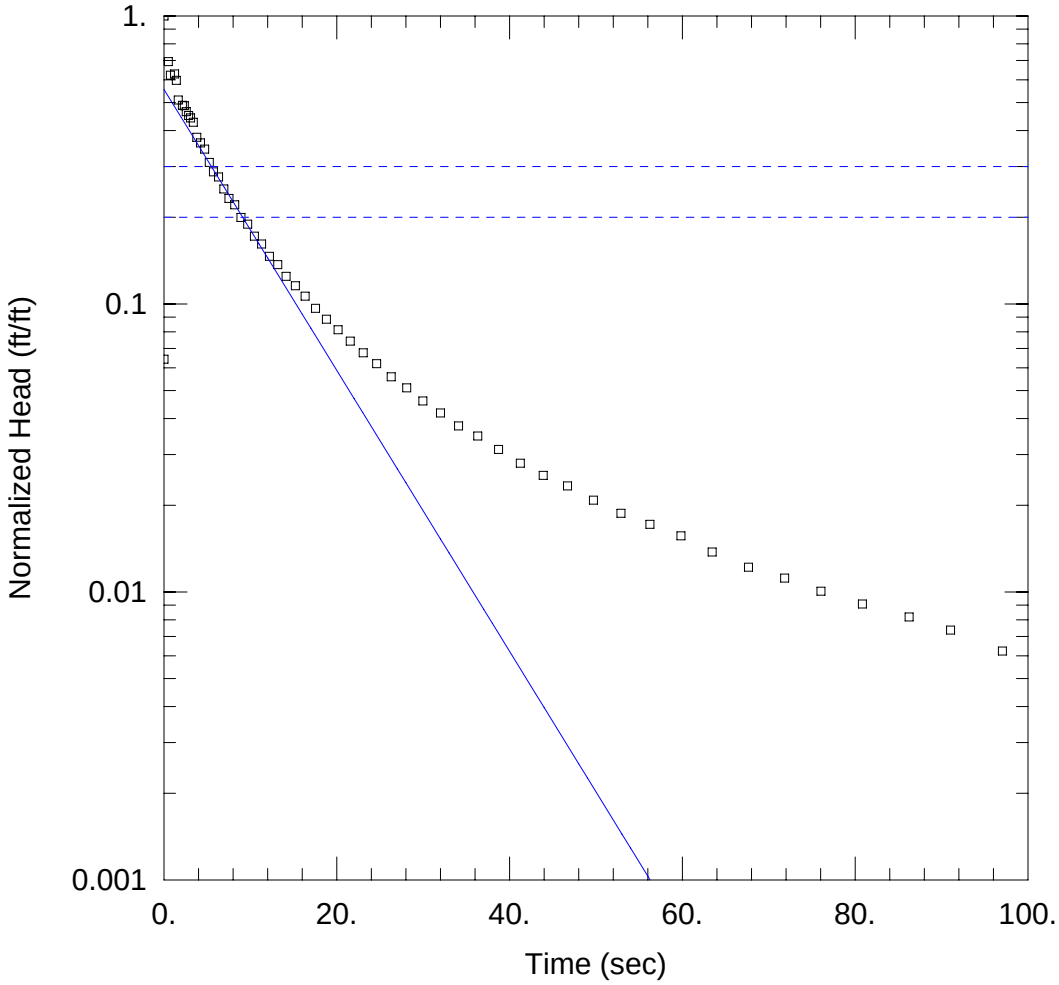
WELL DATA (KAFB106086)

Initial Displacement: 8.2 ft
Total Well Penetration Depth: 29.6 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.6 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 91.96 ft/day
Le = 1. ft



KAFB106086OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106086OUT-BR.aqt
Date: 08/26/11 Time: 09:06:48

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106086
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 44. ft
Anisotropy Ratio (Kz/Kr): 0.1

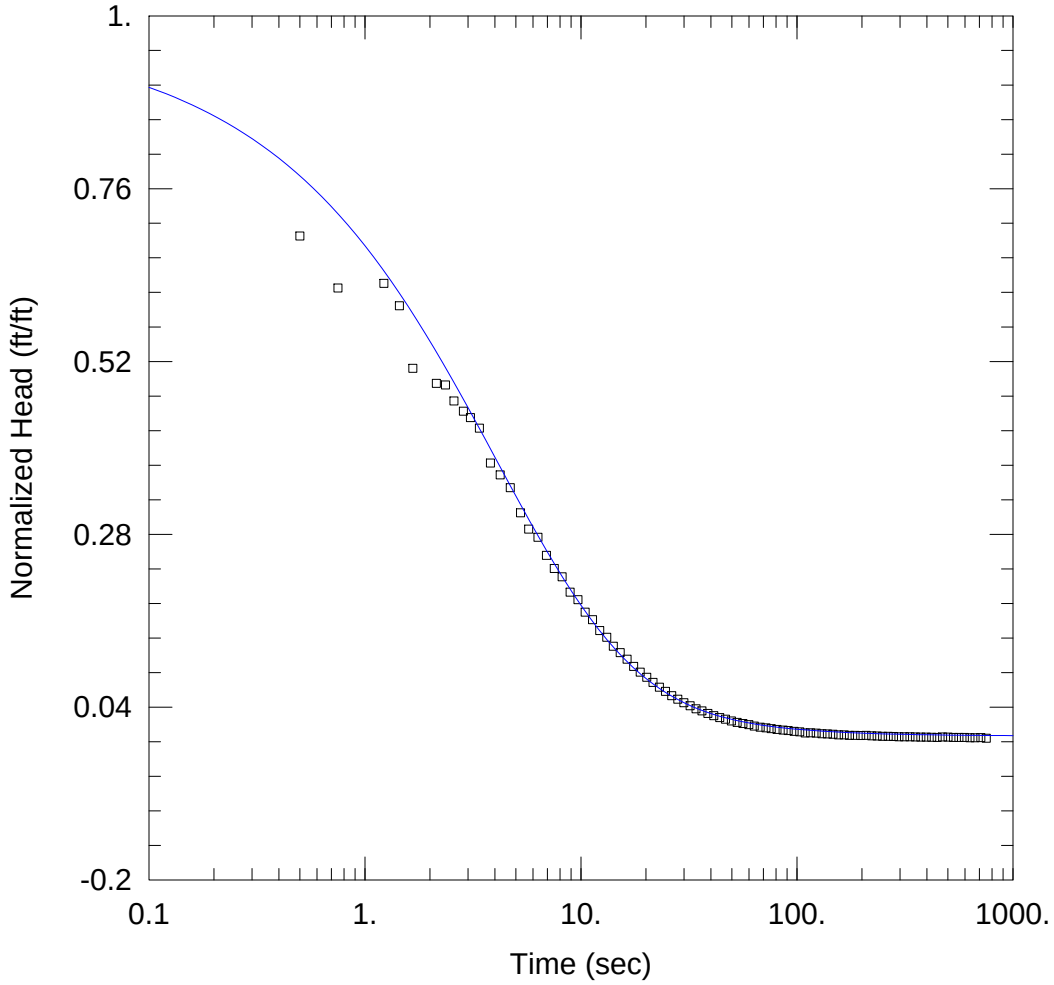
WELL DATA (KAFB106086)

Initial Displacement: 6.651 ft
Total Well Penetration Depth: 29.6 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.6 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 53.79 ft/day
y0 = 3.697 ft



KAFB106086OUT

Data Set: C:\...\KAFB106086OUT-KGS[1].aqt
Date: 08/27/11 Time: 18:12:24

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106086
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 44. ft

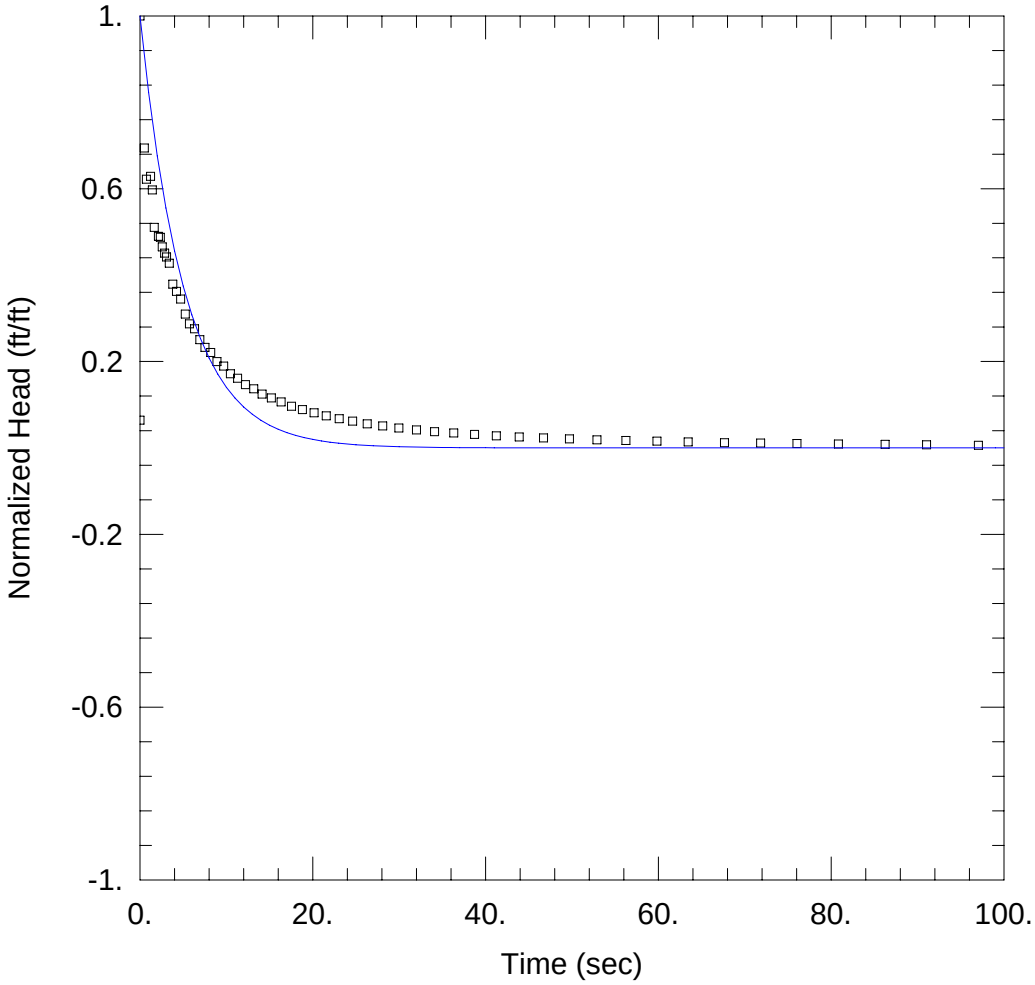
WELL DATA (KAFB106086)

Initial Displacement: 6.651 ft
Total Well Penetration Depth: 29.6 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 34.6 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 53.79 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.0006998 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106086OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106086OUT-SG.aqt
Date: 08/26/11 Time: 09:07:22

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106086
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 44. ft
Anisotropy Ratio (Kz/Kr): 0.1

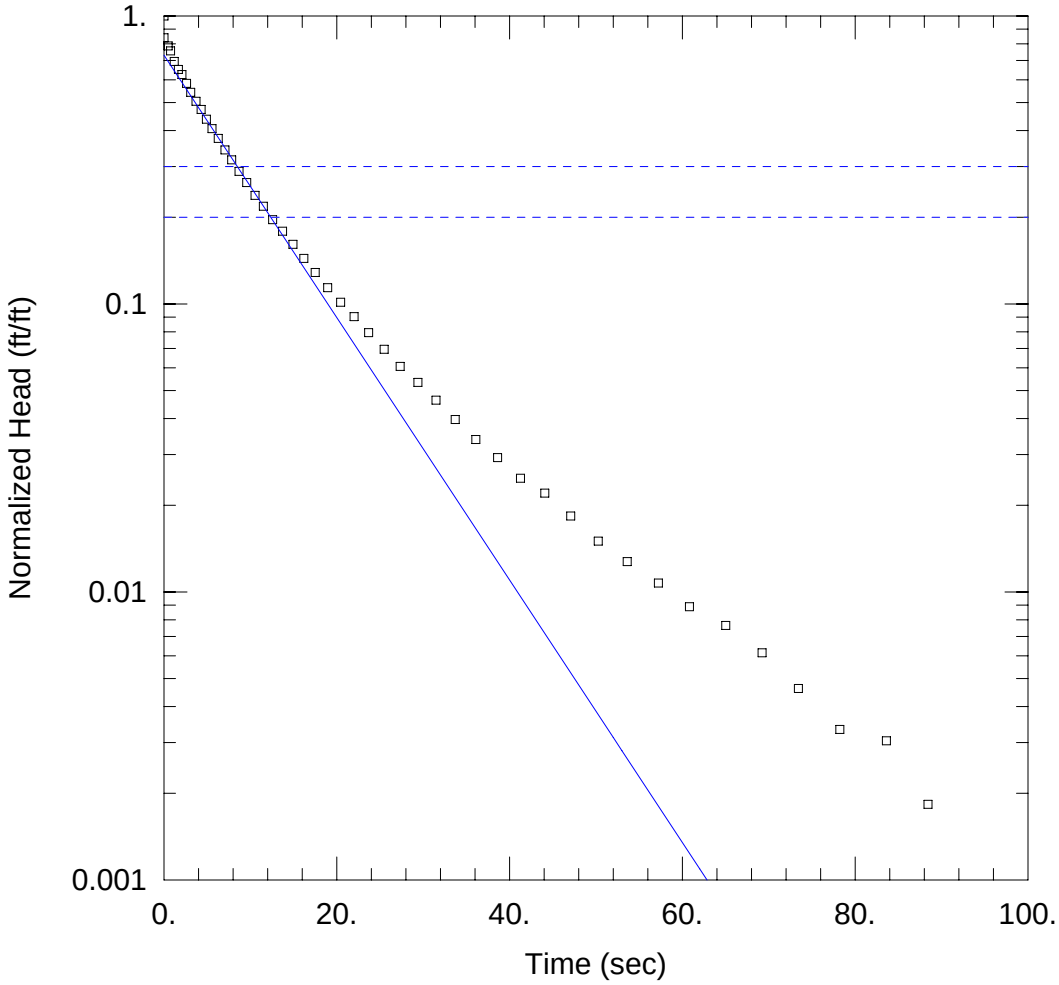
WELL DATA (KAFB106086)

Initial Displacement: 6.651 ft
Total Well Penetration Depth: 29.6 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.6 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 94.04 ft/day
Le = 1. ft



KAFB106089P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106089P1-BR.aqt
Date: 08/26/11 Time: 09:15:01

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 0.1

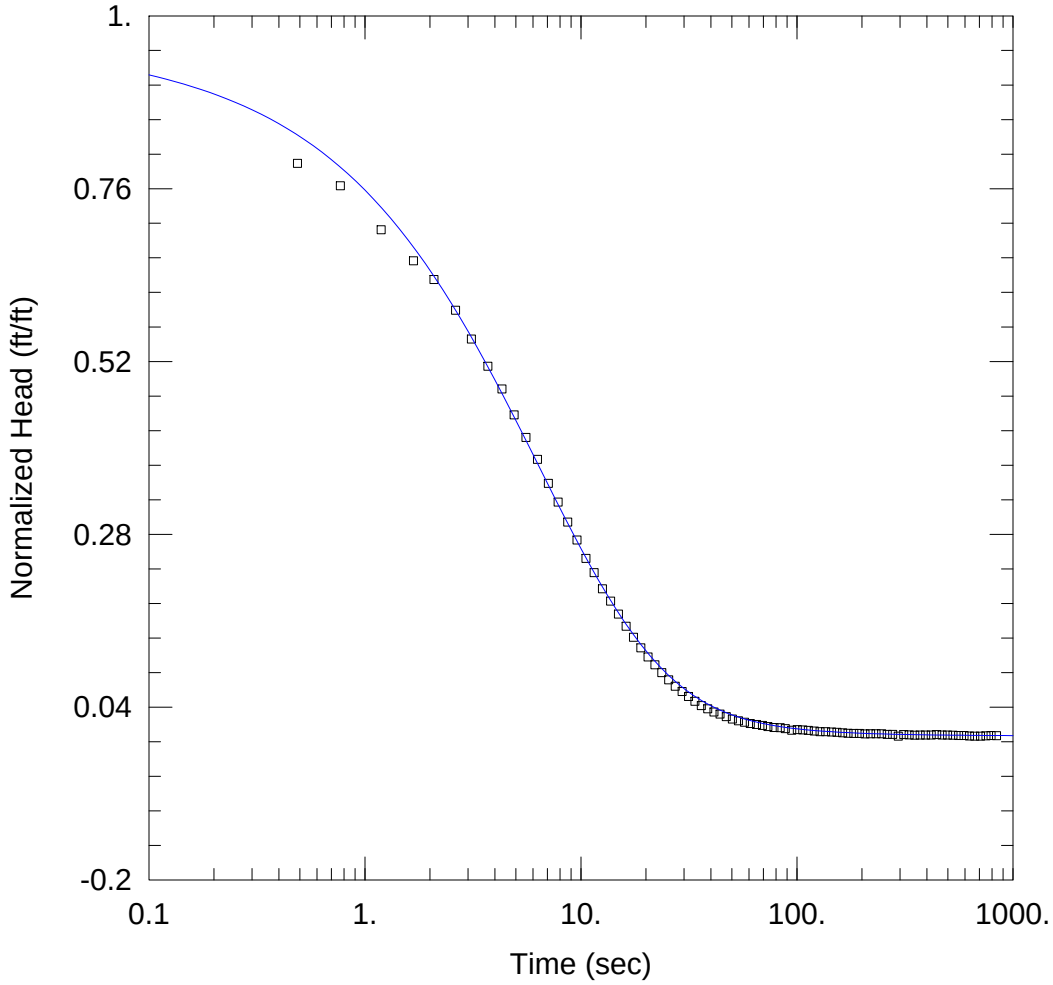
WELL DATA (KAFB 106089)

Initial Displacement: 2.4 ft
Total Well Penetration Depth: 27.96 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 50.73 ft/day
y0 = 1.754 ft



KAFB106089P1

Data Set: C:\...\KAFB106089P1-KGS[1].aqt
Date: 08/27/11 Time: 18:19:41

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 35. ft

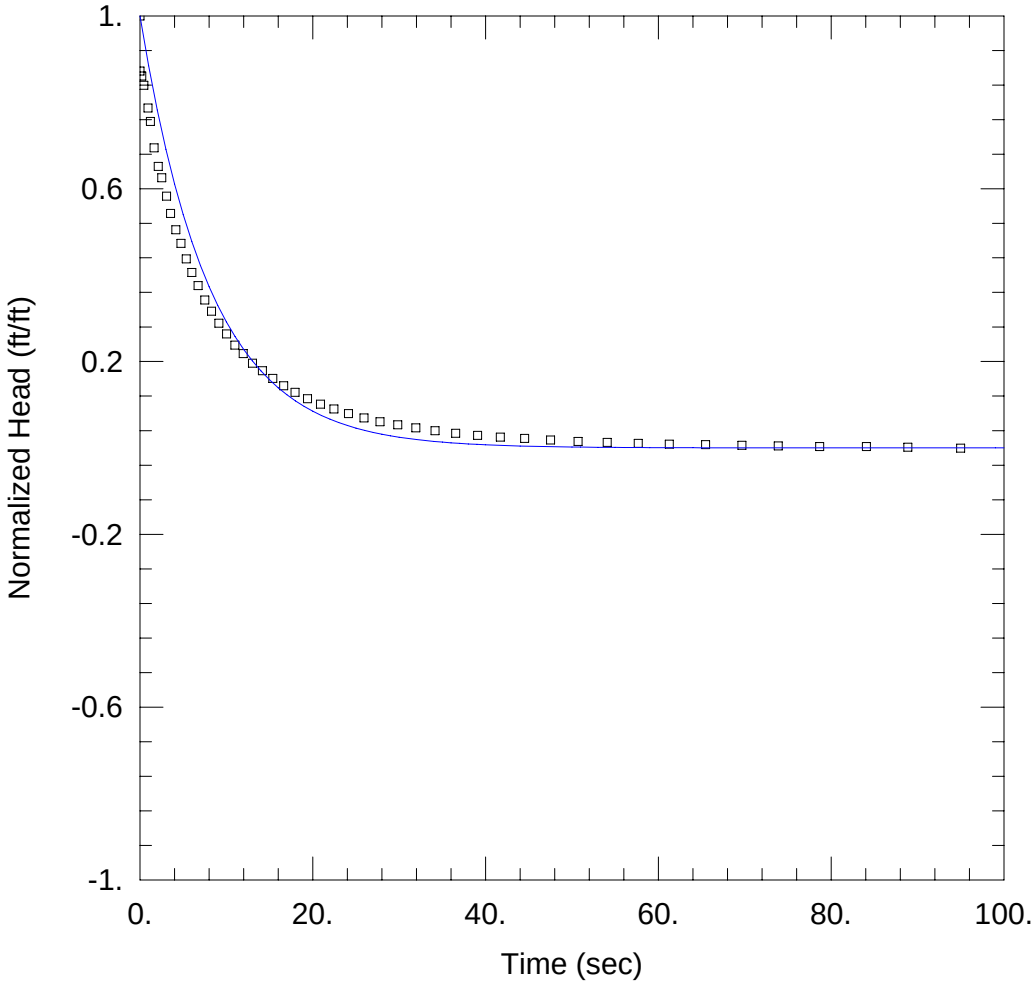
WELL DATA (KAFB 106089)

Initial Displacement: 2.4 ft
Total Well Penetration Depth: 27.96 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 33. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 45.23 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.0002018 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106089P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106089P1-SG.aqt
Date: 08/26/11 Time: 09:15:51

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 0.1

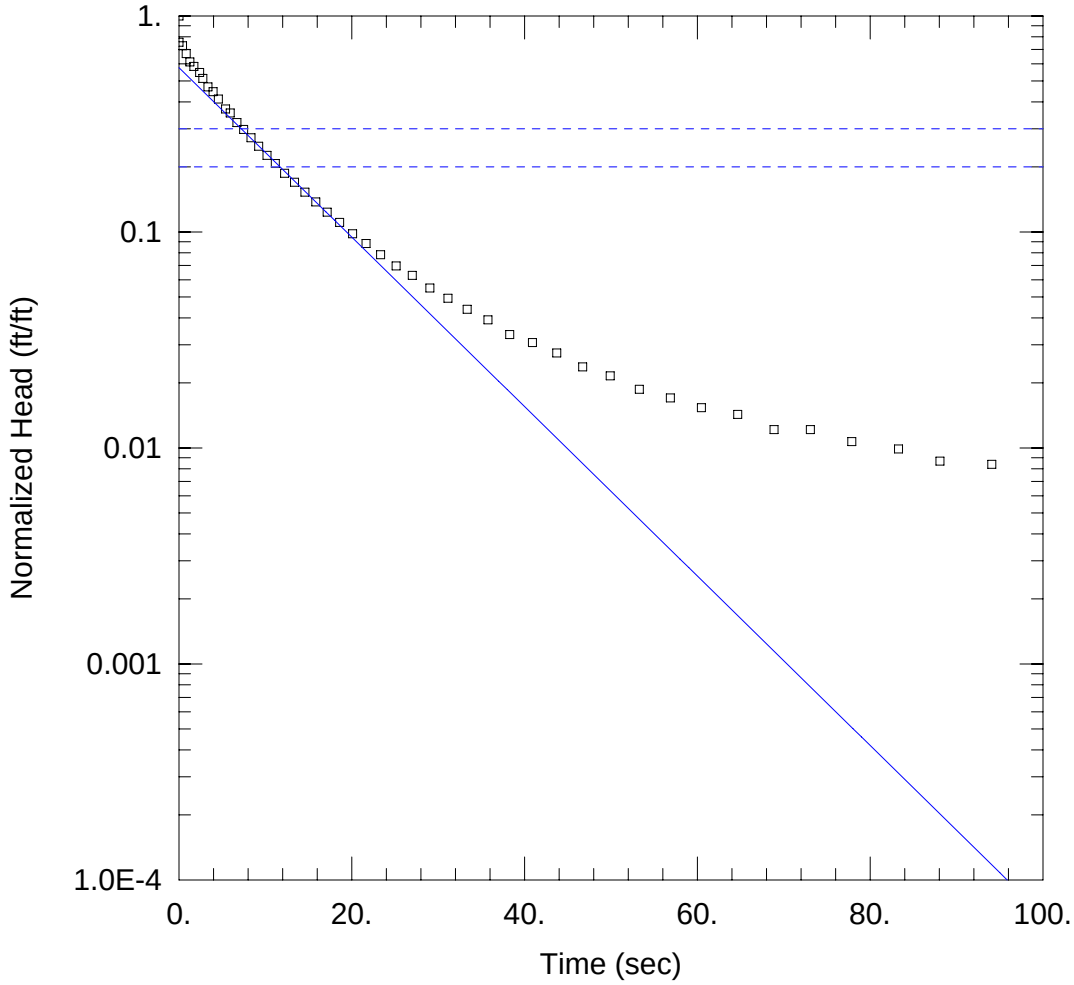
WELL DATA (KAFB 106089)

Initial Displacement: 2.4 ft
Total Well Penetration Depth: 27.96 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 59.59 ft/day
Le = 1. ft



KAFB106089P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106089P2-BR.aqt
Date: 08/26/11 Time: 09:18:33

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 0.1

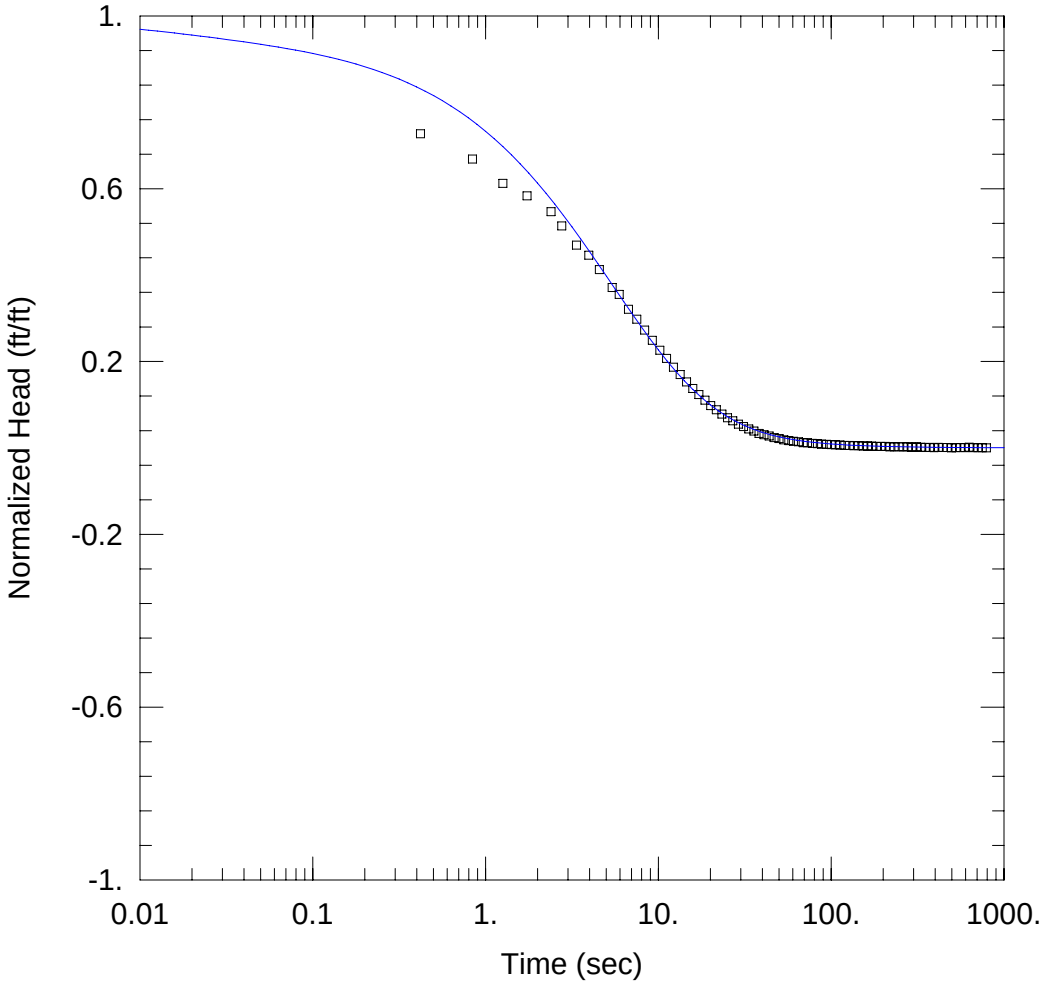
WELL DATA (KAFB 106089)

Initial Displacement: 2.37 ft
Total Well Penetration Depth: 27.96 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 43.67 ft/day
y0 = 1.364 ft



KAFB106089P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106089P2-KGS.aqt
Date: 08/26/11 Time: 09:21:14

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 35. ft

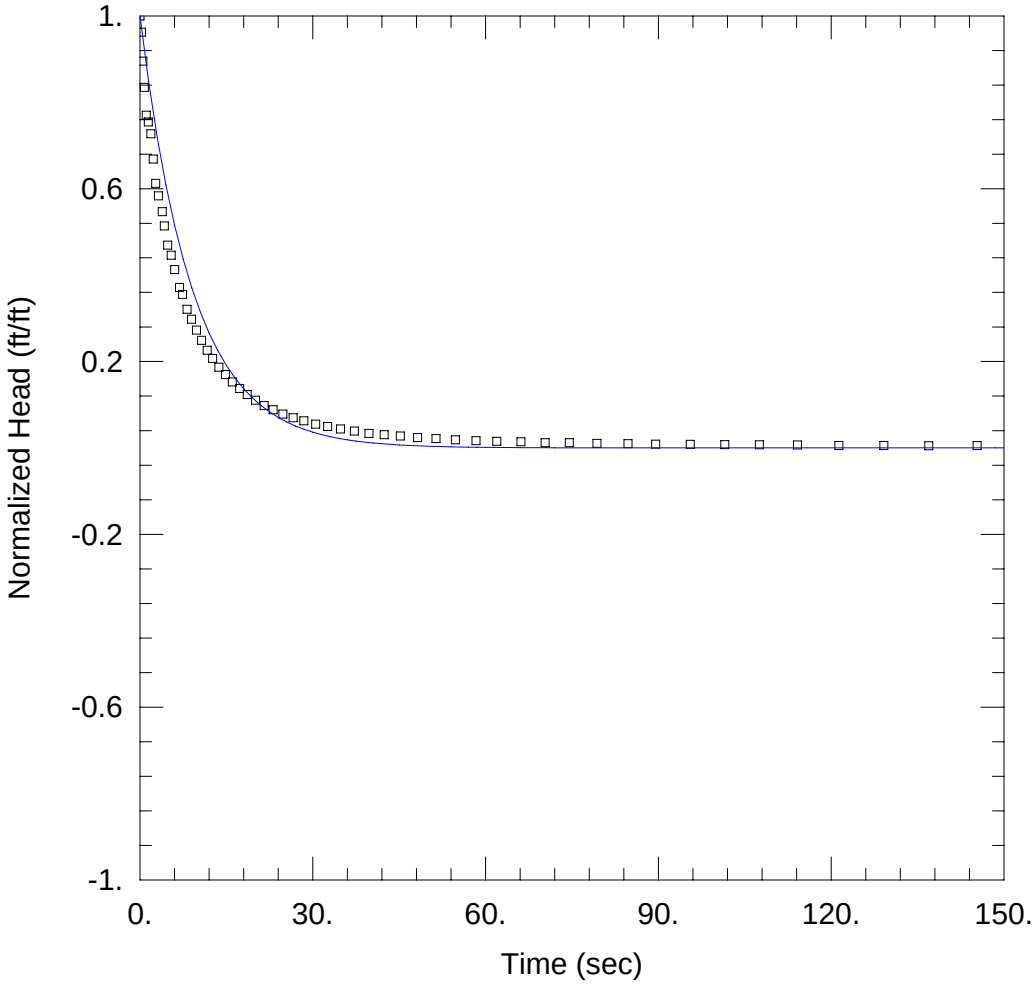
WELL DATA (KAFB 106089)

Initial Displacement: 2.37 ft
Total Well Penetration Depth: 27.96 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 33. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 49.78 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.0002884 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106089P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106089P2-SG.aqt
Date: 08/26/11 Time: 09:19:58

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 0.1

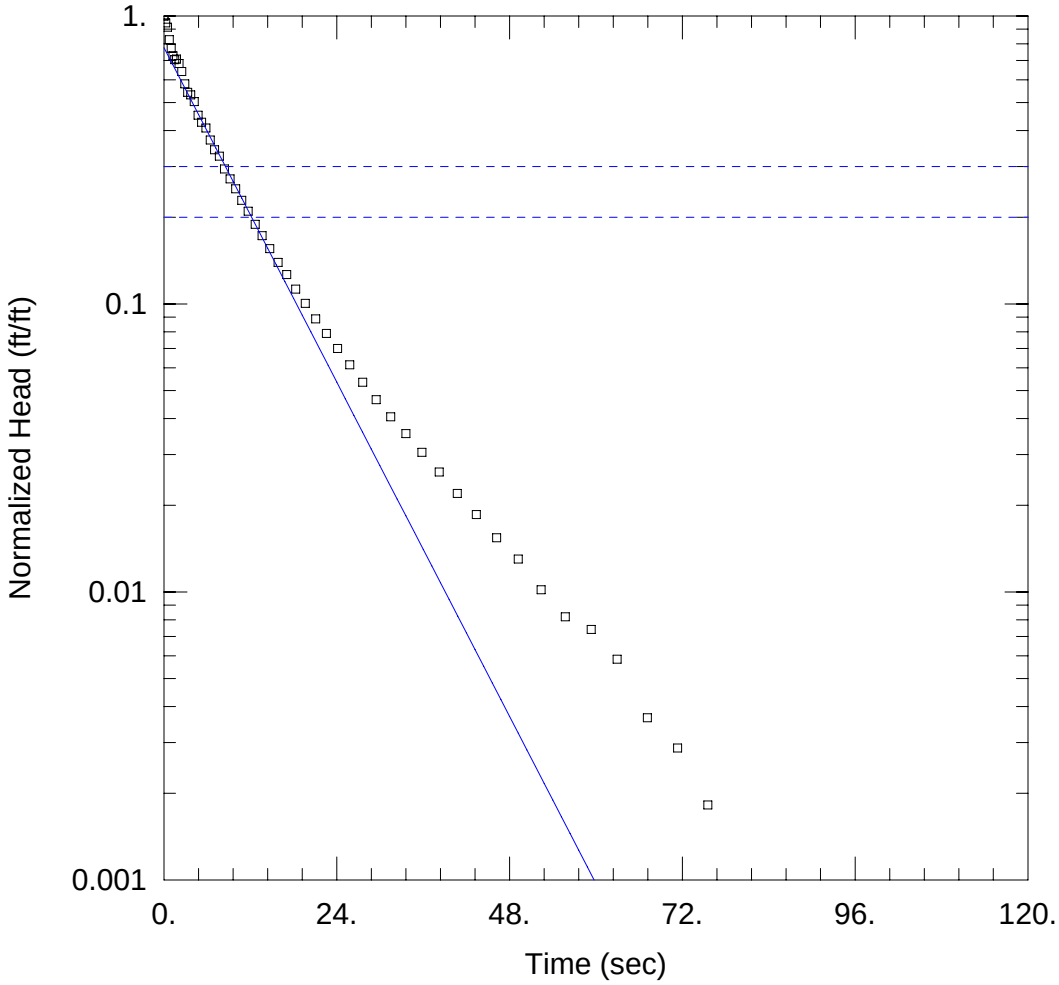
WELL DATA (KAFB 106089)

Initial Displacement: 2.37 ft
Total Well Penetration Depth: 27.96 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 53.39 ft/day
Le = 1. ft



KAFB106089P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106089P3-BR.aqt
Date: 08/26/11 Time: 09:22:30

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 35. ft Anisotropy Ratio (Kz/Kr): 0.1

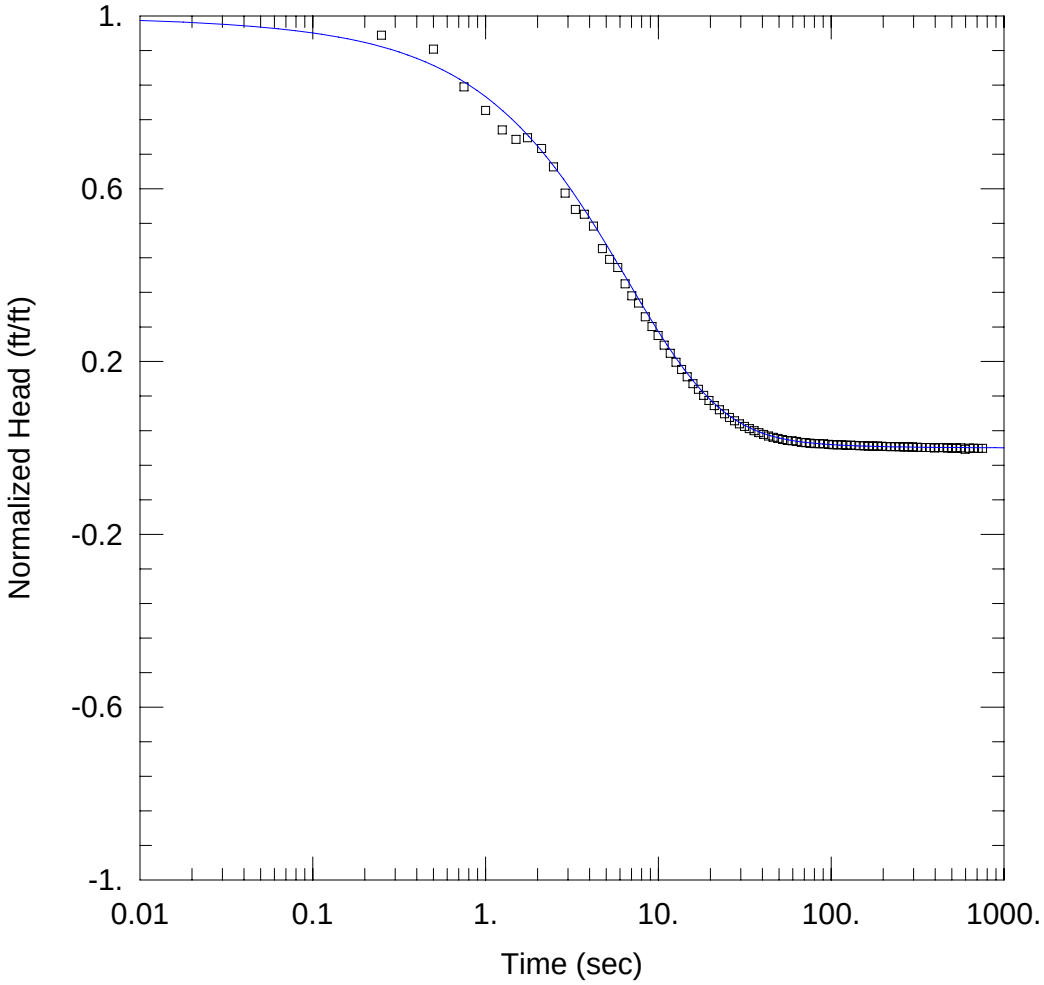
WELL DATA (KAFB 106089)

Initial Displacement: 2.172 ft
Total Well Penetration Depth: 27.96 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 53.86 ft/day y0 = 1.685 ft



KAFB106089P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106089P3-KGS.aqt
Date: 08/26/11 Time: 09:24:24

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 35. ft

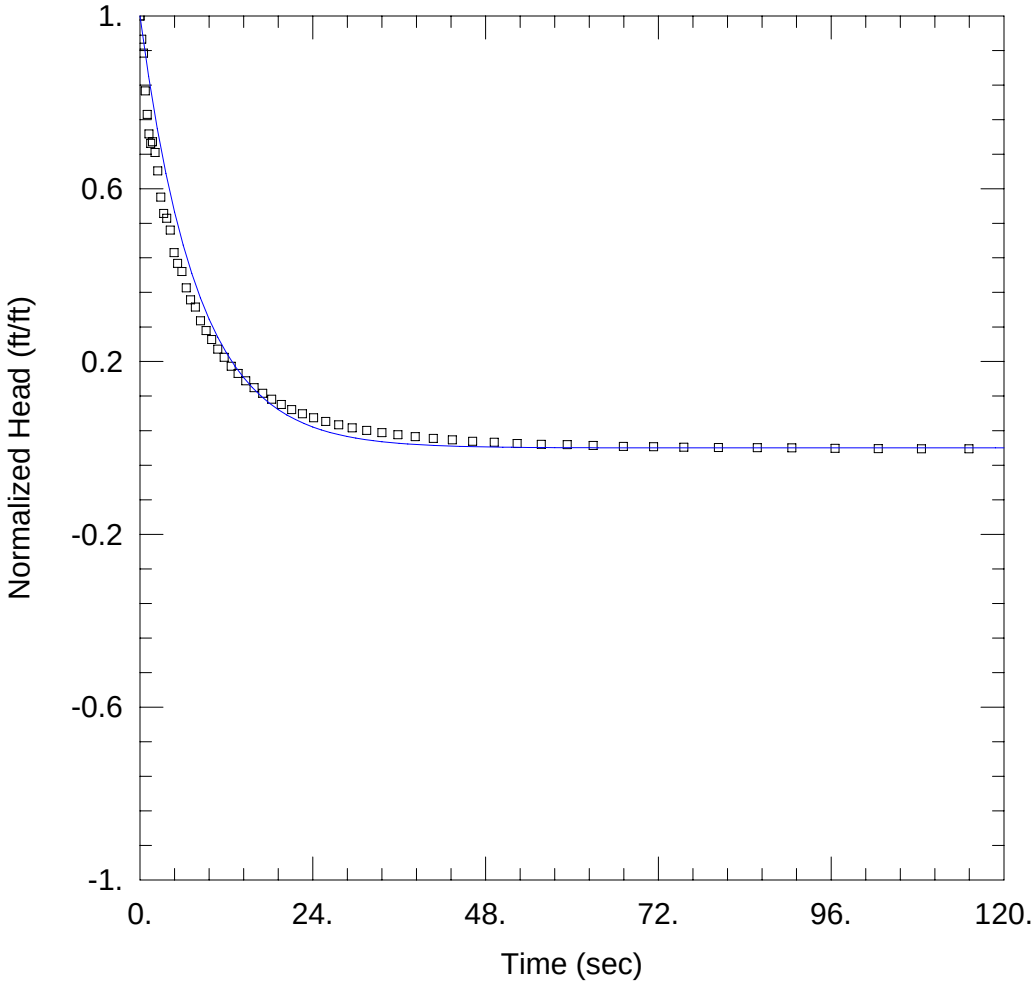
WELL DATA (KAFB 106089)

Initial Displacement: 2.172 ft
Total Well Penetration Depth: 27.96 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 33. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 65.23 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.0005129 ft^{-1}
Kr' = 26.04 ft/day
Kz/Kr' = 1.



KAFB106089P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106089P3-SG.aqt
Date: 08/26/11 Time: 09:23:36

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 0.1

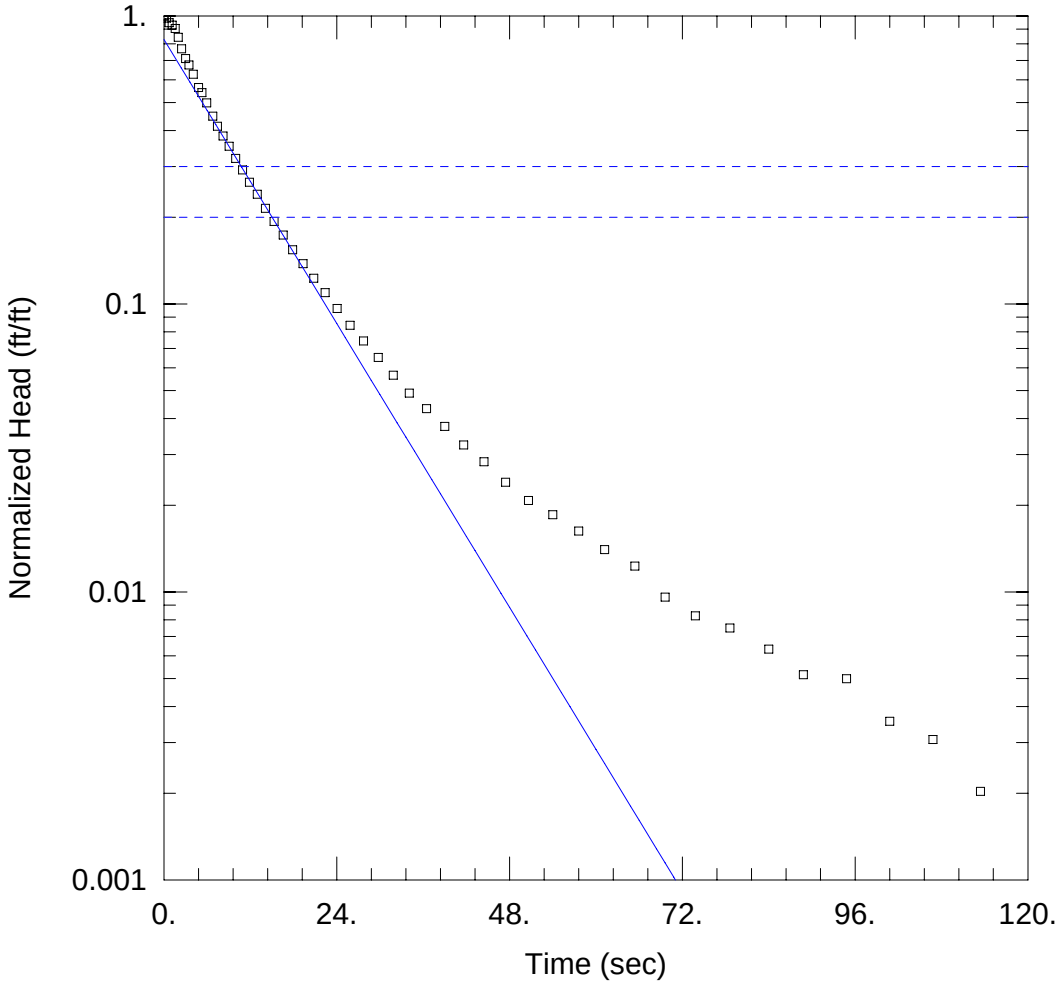
WELL DATA (KAFB 106089)

Initial Displacement: 2.172 ft
Total Well Penetration Depth: 27.96 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 60.99 ft/day
Le = 1. ft



KAFB106089P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106089P4-BR.aqt
Date: 08/26/11 Time: 09:26:03

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 0.1

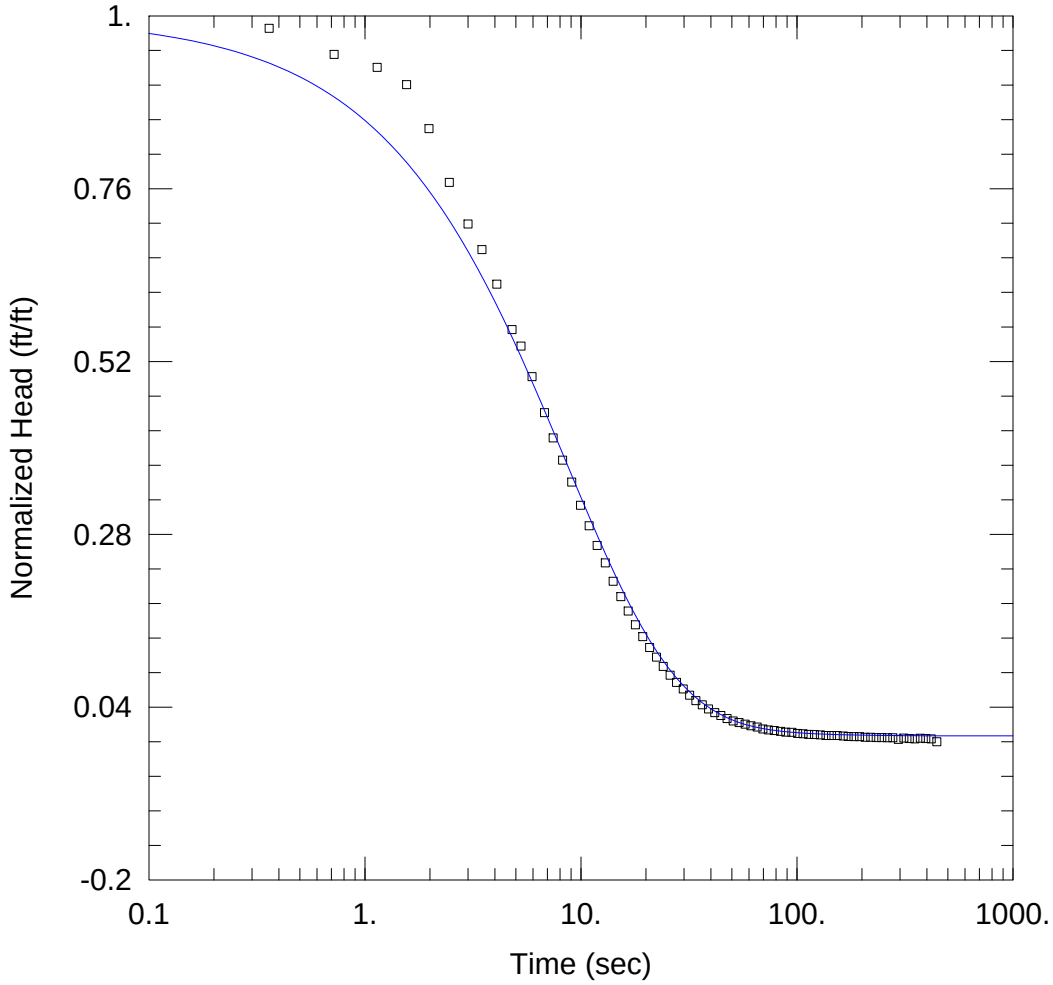
WELL DATA (KAFB 106089)

Initial Displacement: 2.365 ft
Total Well Penetration Depth: 27.96 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 45.74 ft/day
y0 = 1.958 ft



KAFB106089P4

Data Set: C:\...\KAFB106089P4-KGS[1].aqt
Date: 08/27/11 Time: 18:28:27

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 35. ft

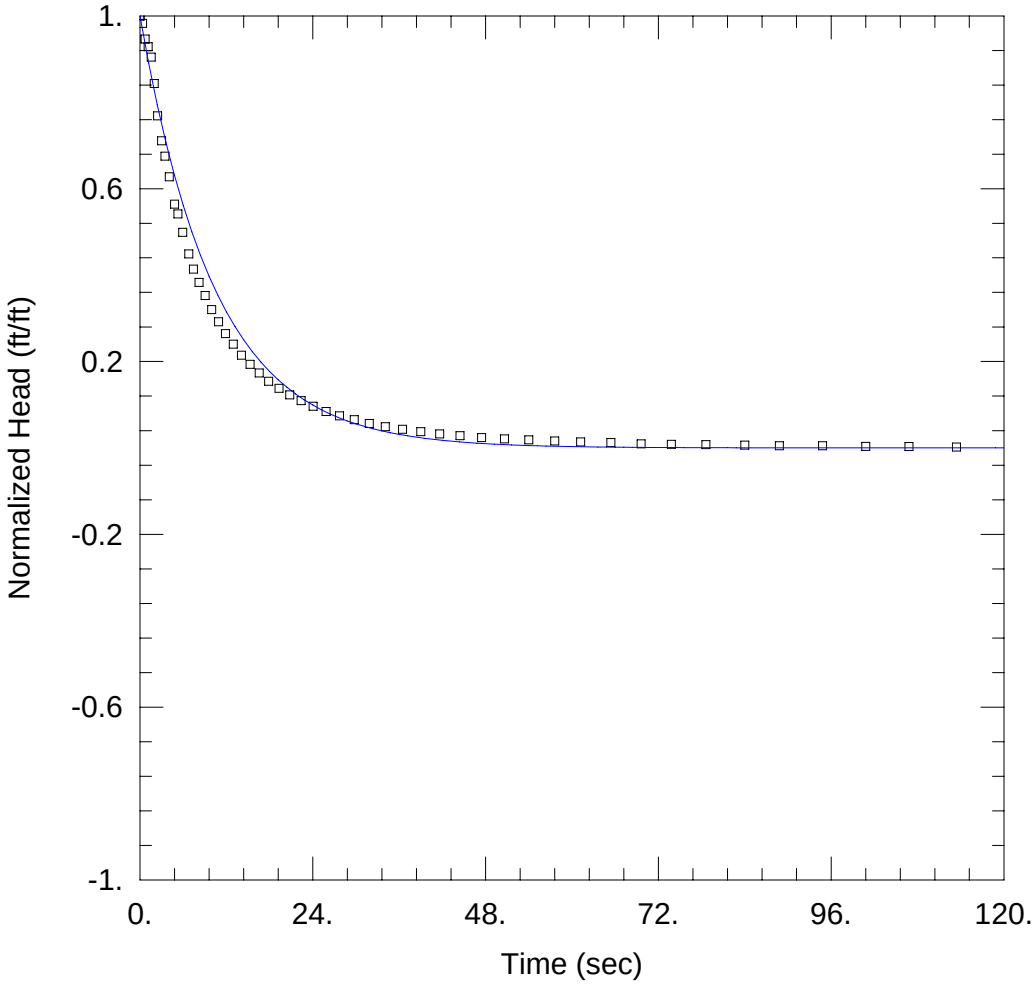
WELL DATA (KAFB 106089)

Initial Displacement: 2.365 ft
Total Well Penetration Depth: 27.96 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 33. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 47.08 ft/day
Kz/Kr = 0.1
Ss' = 5.012E-6 ft^{-1}
Ss = 1.679E-5 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



KAFB106089P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106089P4-SG.aqt
Date: 08/26/11 Time: 09:27:08

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 7/23/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 0.1

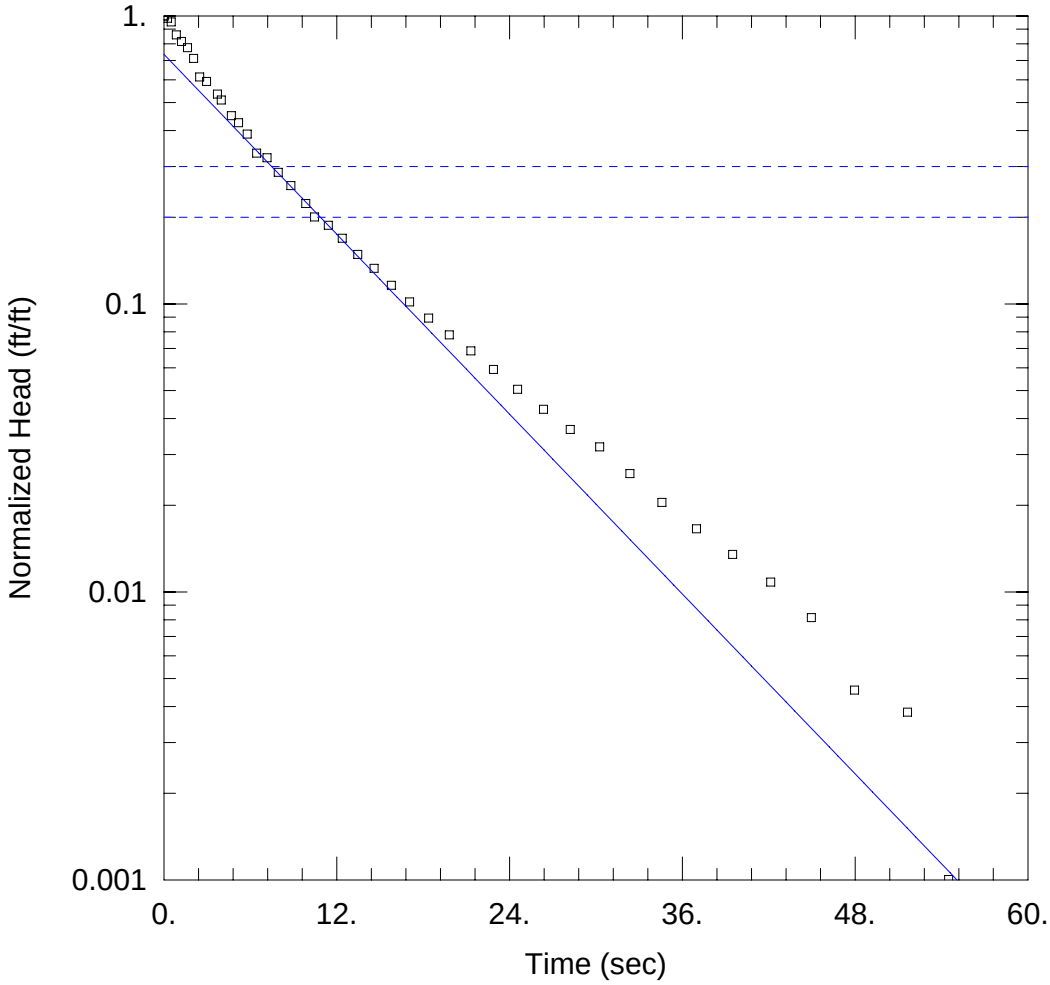
WELL DATA (KAFB 106089)

Initial Displacement: 2.365 ft
Total Well Penetration Depth: 27.96 ft
Casing Radius: 0.198 ft
Static Water Column Height: 33. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 46.53 ft/day
Le = 1. ft



KAFB106092P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106092P1-BR.aqt
Date: 08/26/11 Time: 09:39:36

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106092
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 46. ft
Anisotropy Ratio (Kz/Kr): 0.1

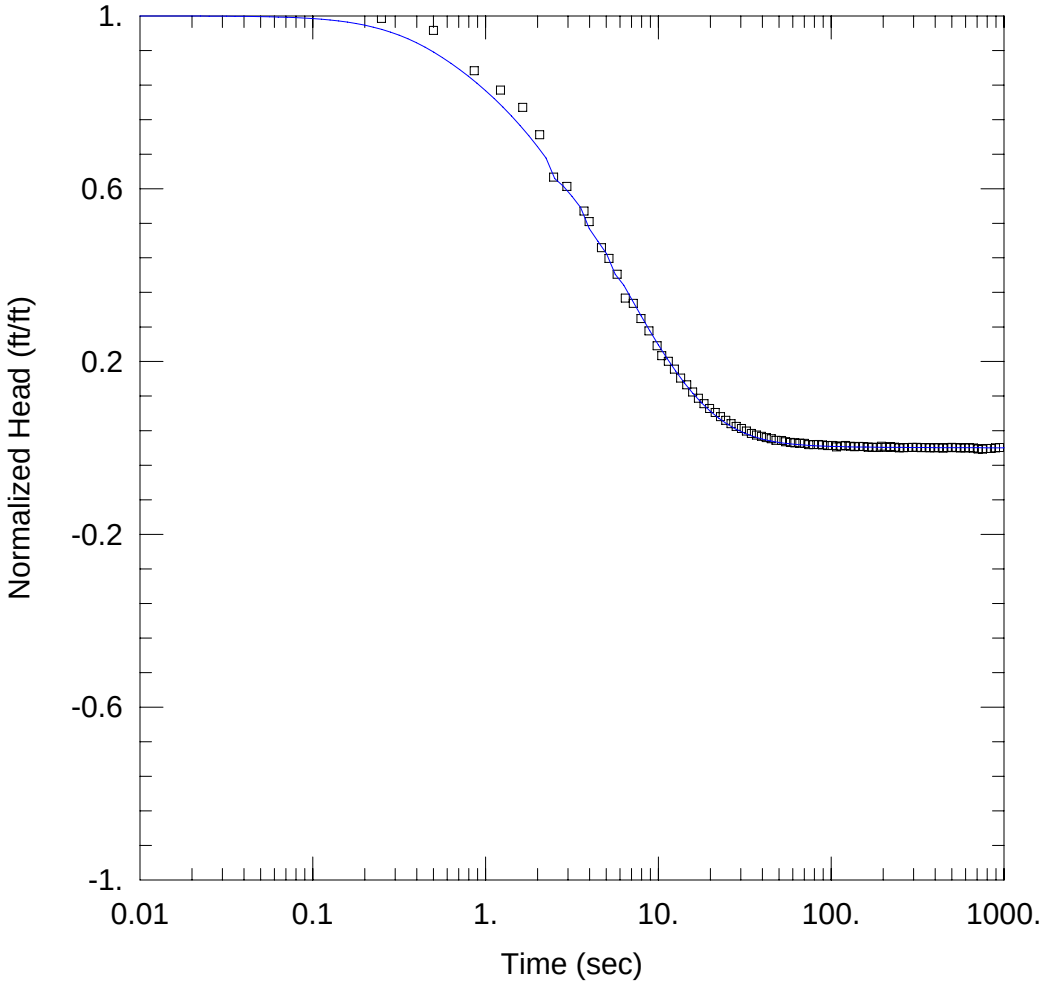
WELL DATA (KAFB106092)

Initial Displacement: 2.271 ft
Total Well Penetration Depth: 29.63 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.23 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 57.23 ft/day
y0 = 1.669 ft



KAFB106092P1

Data Set: C:\...\KAFB106092P1-BZ[1].aqt
Date: 08/30/11 Time: 08:35:13

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106092
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 46. ft
Anisotropy Ratio (Kz/Kr): 0.1

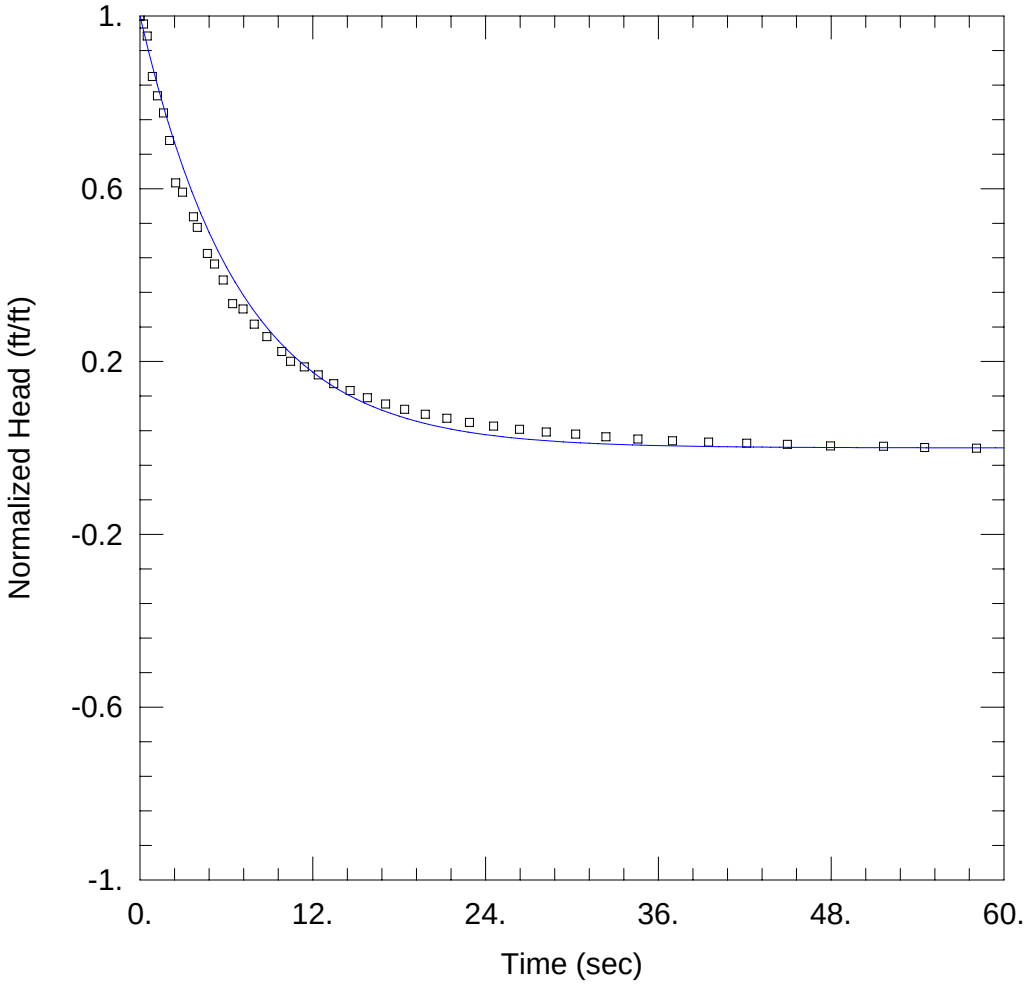
WELL DATA (KAFB106092)

Initial Displacement: 2.271 ft
Total Well Penetration Depth: 29.63 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.23 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 70.09 ft/day
Kz/Kr = 0.1
Ss = 4.732E-5 ft^{-1}
Le = 22.91 ft



KAFB106092P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106092P1-SG.aqt
Date: 08/26/11 Time: 09:40:39

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106092
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 46. ft
Anisotropy Ratio (Kz/Kr): 0.1

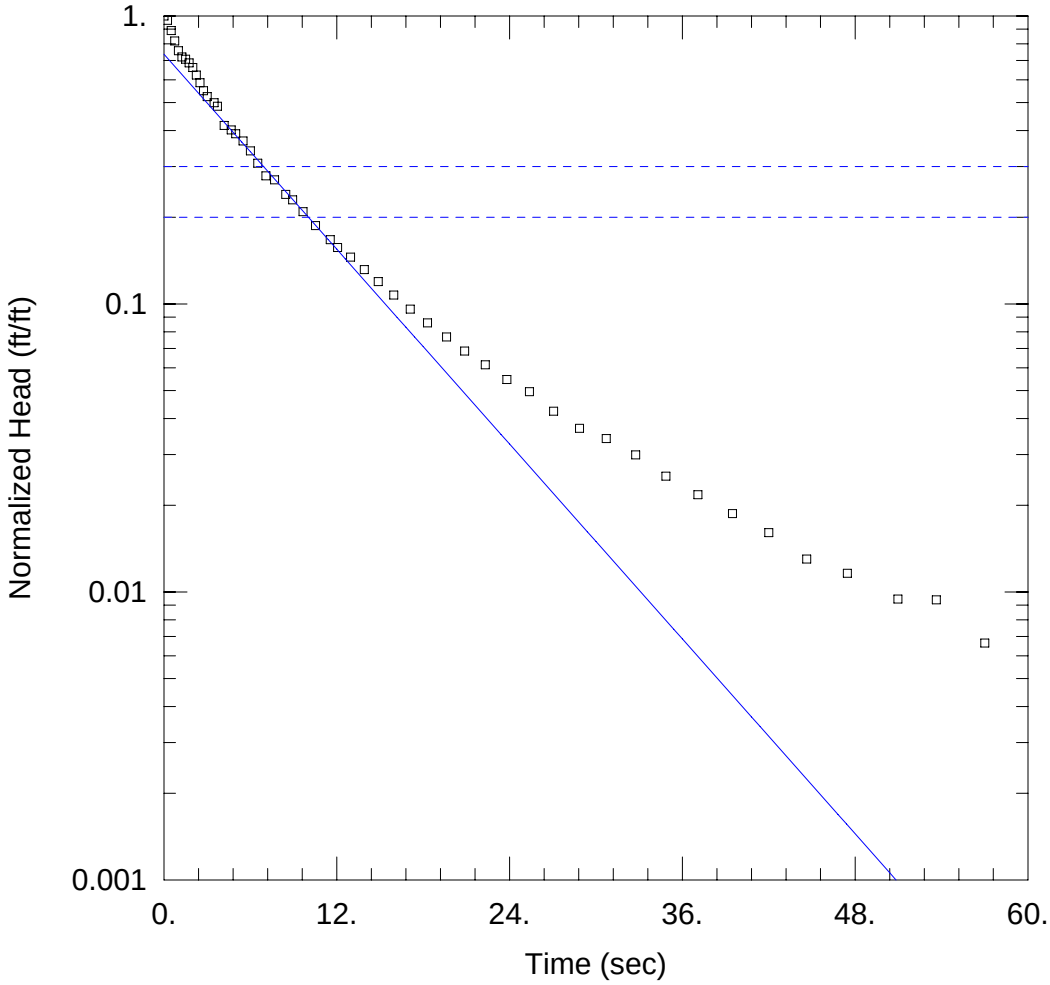
WELL DATA (KAFB106092)

Initial Displacement: 2.271 ft
Total Well Penetration Depth: 29.63 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.23 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 69.29 ft/day
Le = 1. ft



KAFB106092P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106092P2-BR.aqt
Date: 08/26/11 Time: 09:41:42

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106092
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 46. ft
Anisotropy Ratio (Kz/Kr): 0.1

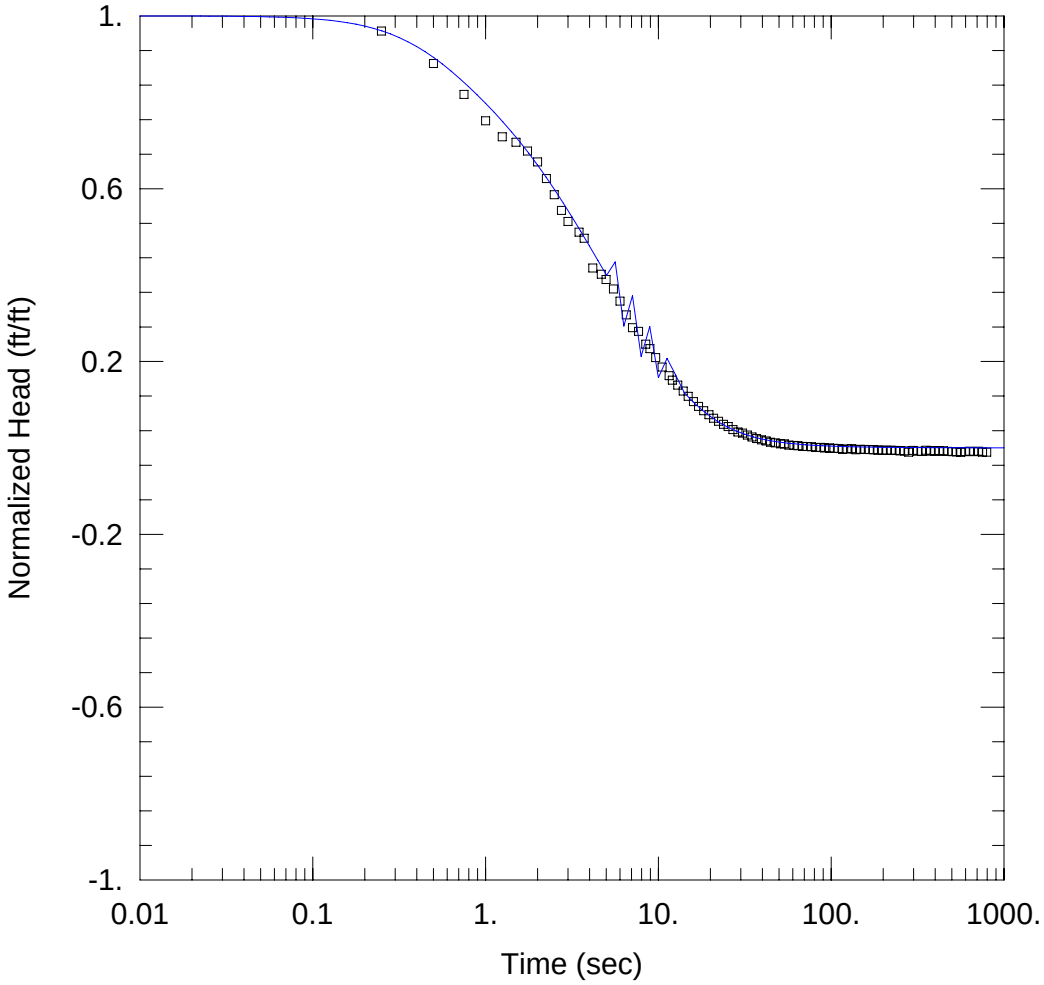
WELL DATA (KAFB106092)

Initial Displacement: 2.313 ft
Total Well Penetration Depth: 29.63 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.23 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 62. ft/day
y0 = 1.702 ft



KAFB106092P2

Data Set: C:\...\KAFB106092P2-BZ[1].aqt
Date: 08/26/11 Time: 09:49:34

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106092
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 46. ft Anisotropy Ratio (Kz/Kr): 0.1

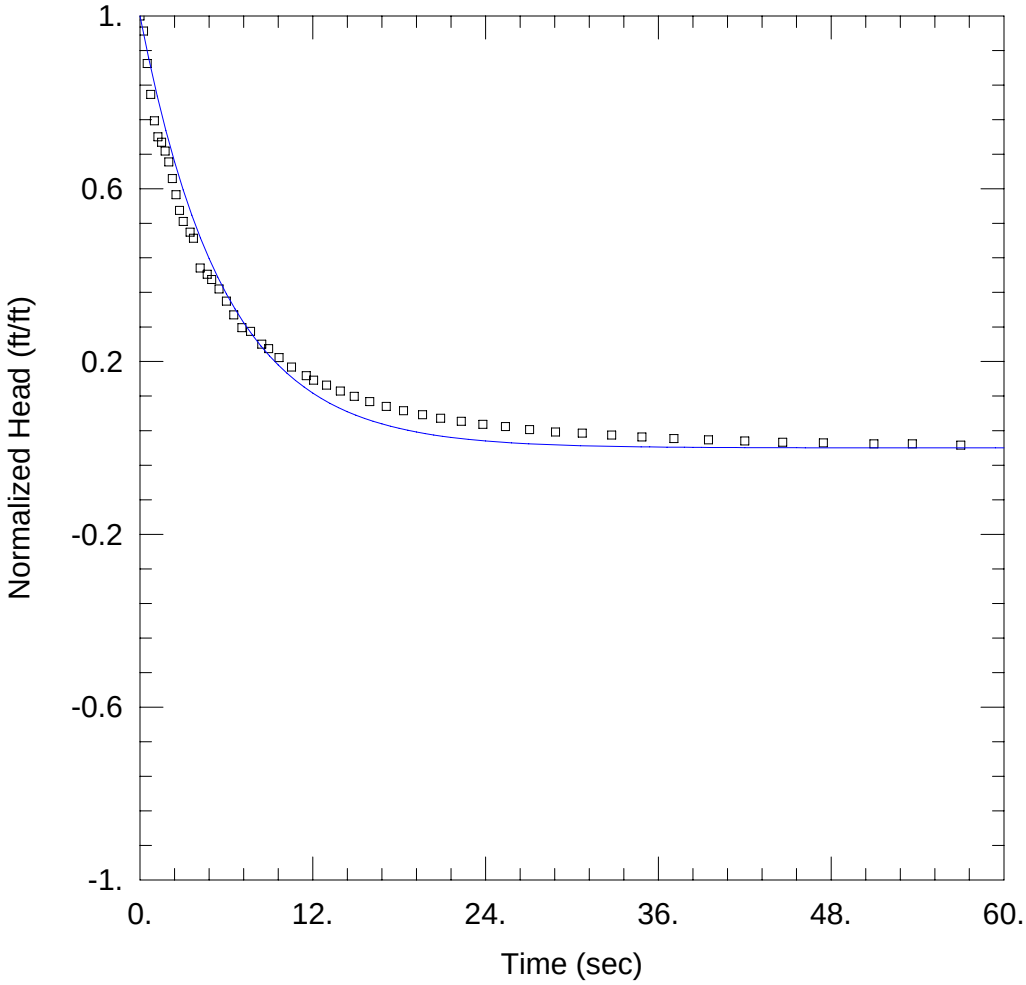
WELL DATA (KAFB106092)

Initial Displacement: 2.313 ft
Total Well Penetration Depth: 29.63 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.23 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 74.08 ft/day
Kz/Kr = 0.1
Ss = 0.0001084 ft^{-1}
Le = 21.88 ft



KAFB106092P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106092P2-SG.aqt
Date: 08/26/11 Time: 09:42:42

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106092
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 46. ft
Anisotropy Ratio (Kz/Kr): 0.1

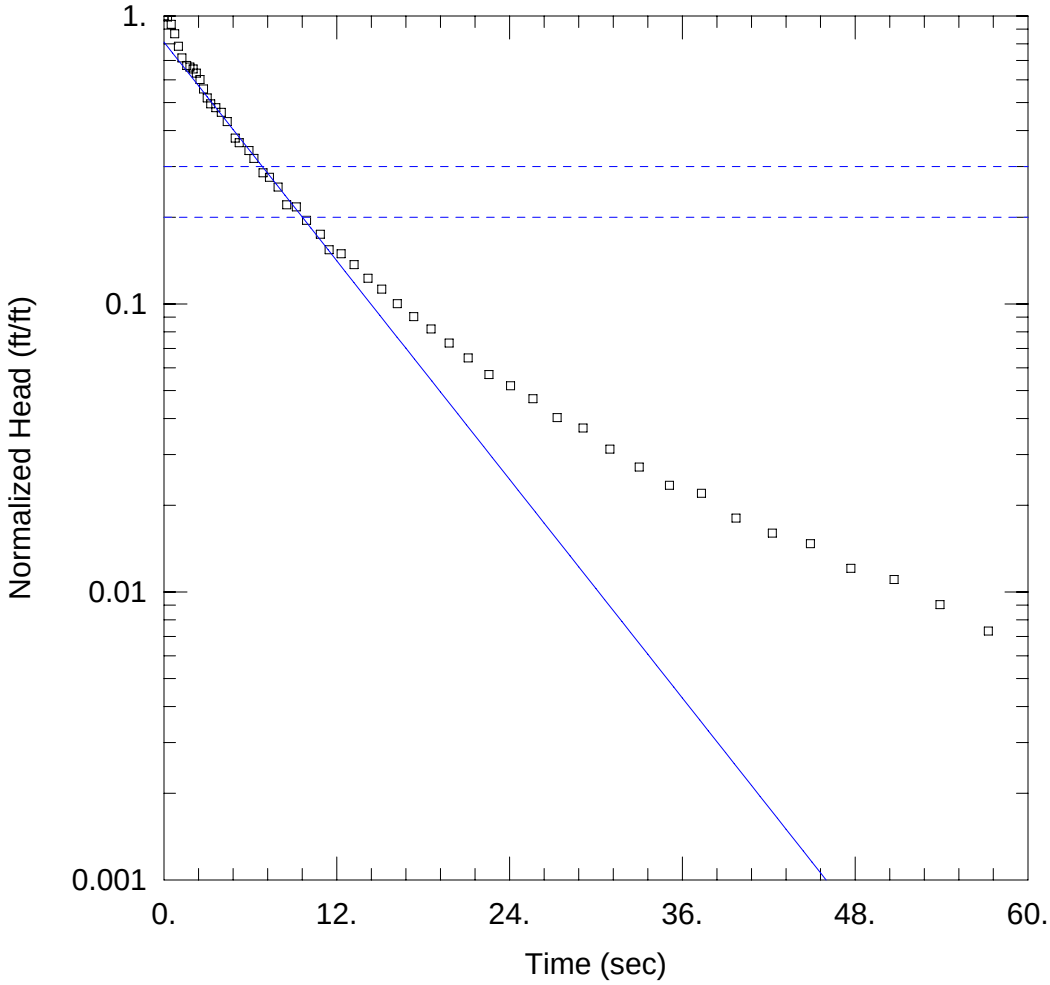
WELL DATA (KAFB106092)

Initial Displacement: 2.313 ft
Total Well Penetration Depth: 29.63 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.23 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 82.12 ft/day
Le = 1. ft



KAFB106092P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106092P3-BR.aqt
Date: 08/26/11 Time: 09:43:23

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106092
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 46. ft
Anisotropy Ratio (Kz/Kr): 0.1

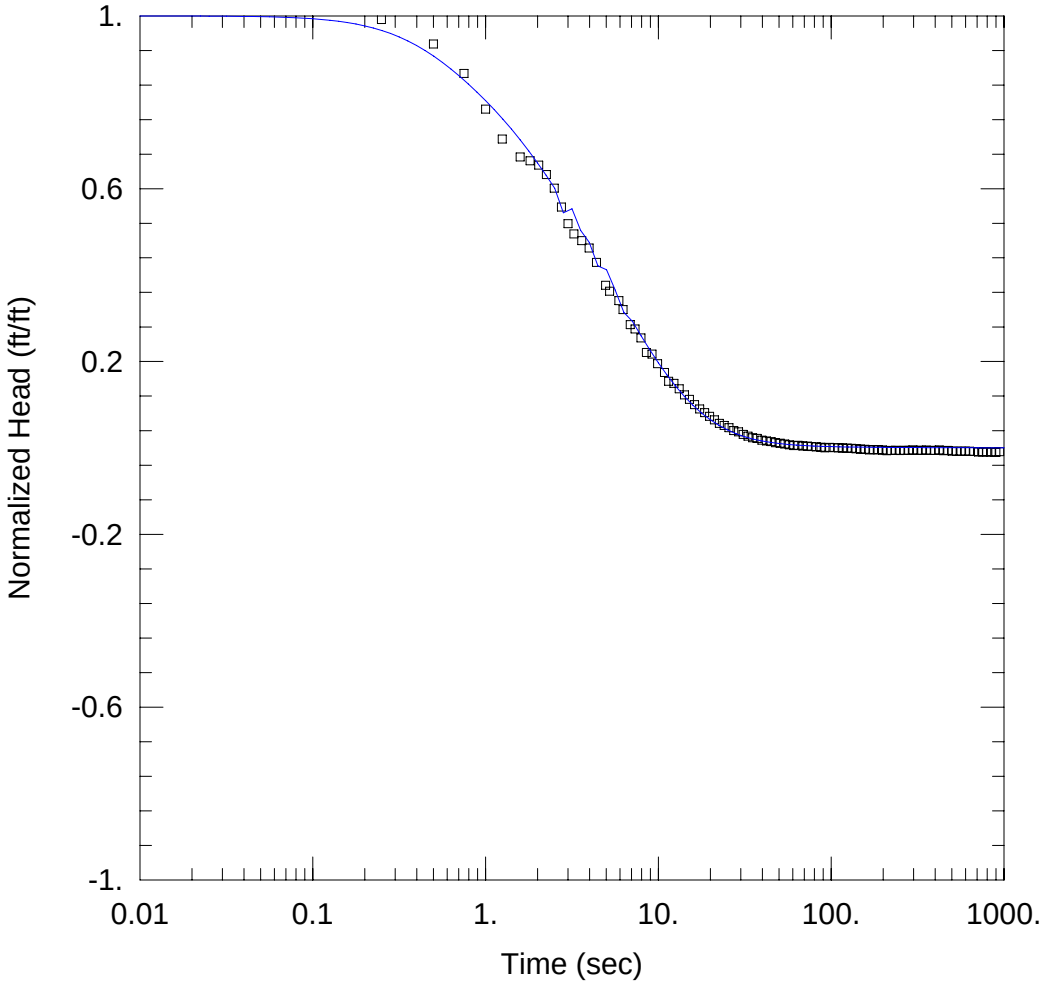
WELL DATA (KAFB106092)

Initial Displacement: 2.107 ft
Total Well Penetration Depth: 29.63 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.23 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 69.56 ft/day
y0 = 1.709 ft



KAFB106092P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106092P3-BZ.aqt
Date: 08/26/11 Time: 09:51:02

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106092
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 46. ft
Anisotropy Ratio (Kz/Kr): 0.09661

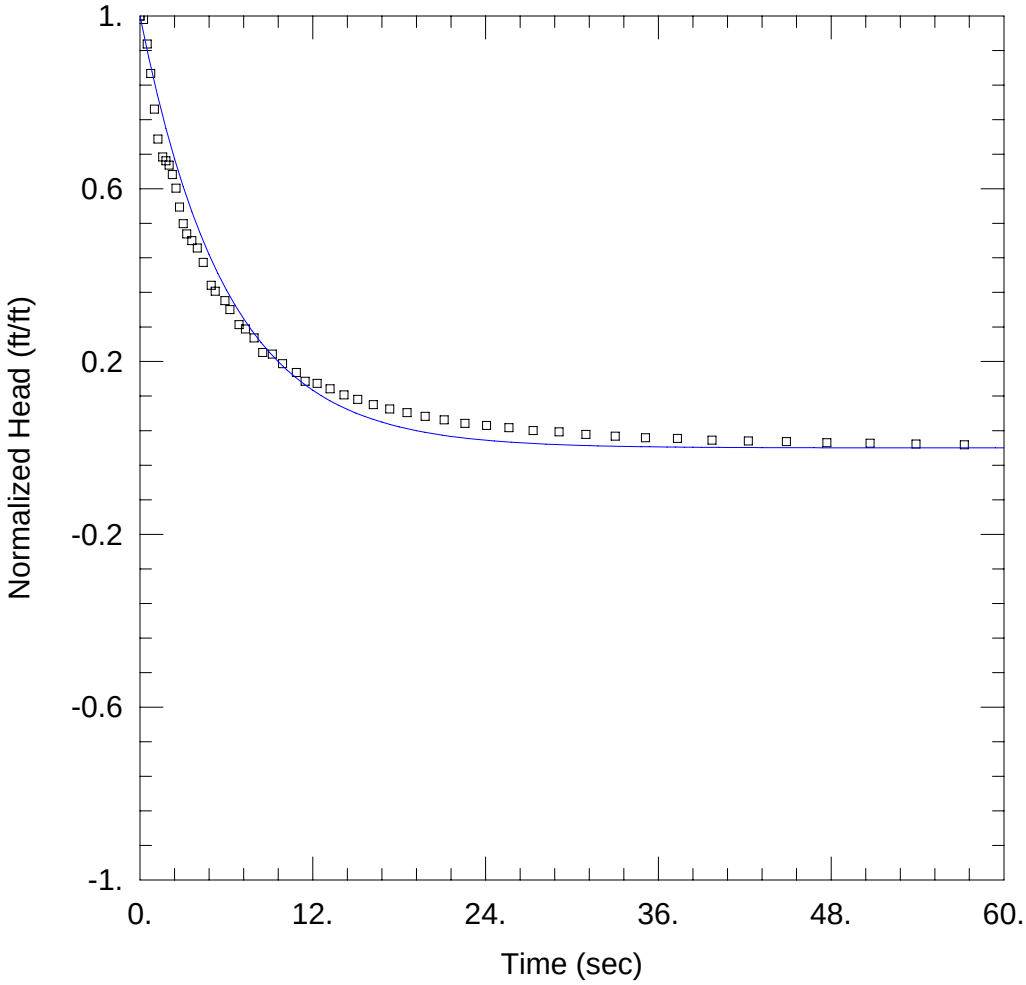
WELL DATA (KAFB106092)

Initial Displacement: 2.107 ft
Total Well Penetration Depth: 29.63 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.23 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 80.44 ft/day
Kz/Kr = 0.09661
Ss = 5.821E-5 ft^{-1}
Le = 21.88 ft



KAFB106092P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106092P3-SG.aqt
Date: 08/26/11 Time: 09:44:10

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106092
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 46. ft
Anisotropy Ratio (Kz/Kr): 0.1

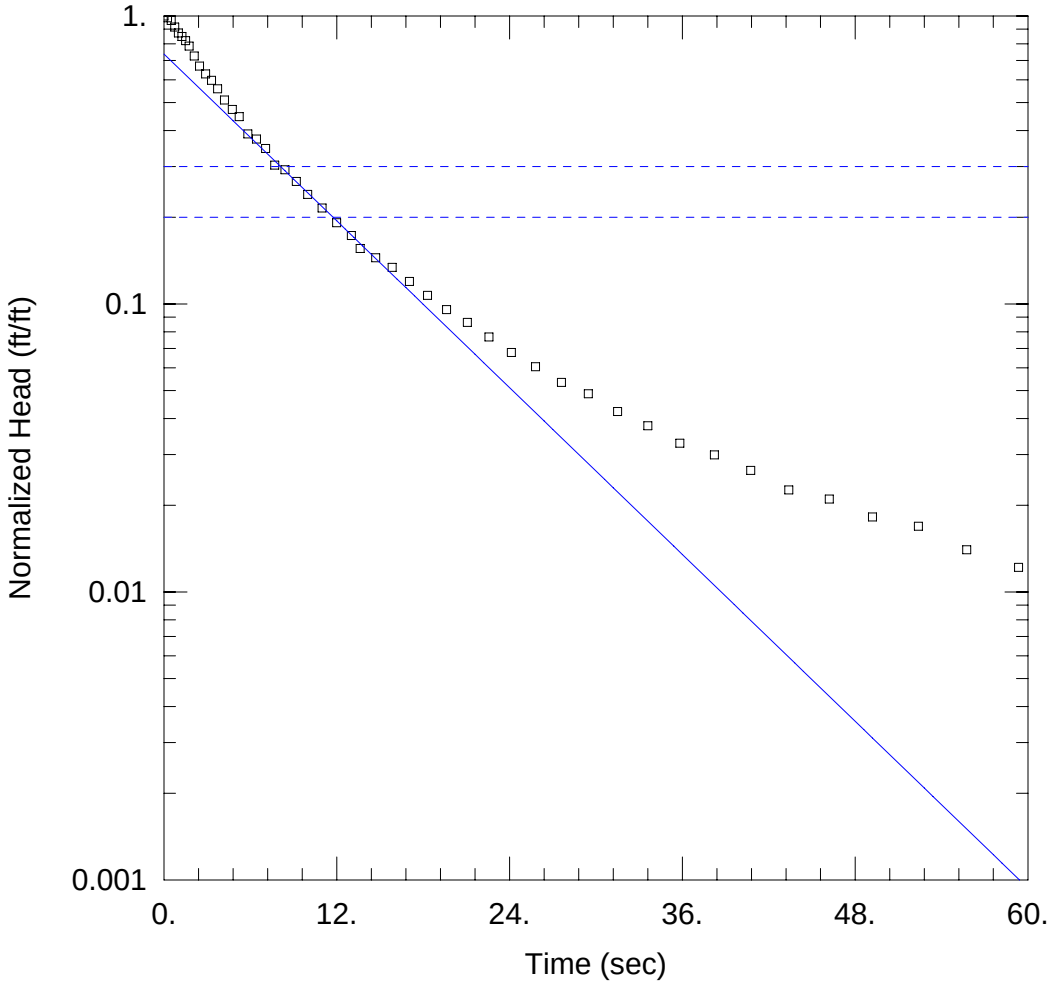
WELL DATA (KAFB106092)

Initial Displacement: 2.107 ft
Total Well Penetration Depth: 29.63 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.23 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 80.11 ft/day
Le = 1. ft



KAFB106092P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106092P4-BR.aqt
Date: 08/26/11 Time: 09:45:01

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106092
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 46. ft
Anisotropy Ratio (Kz/Kr): 0.1

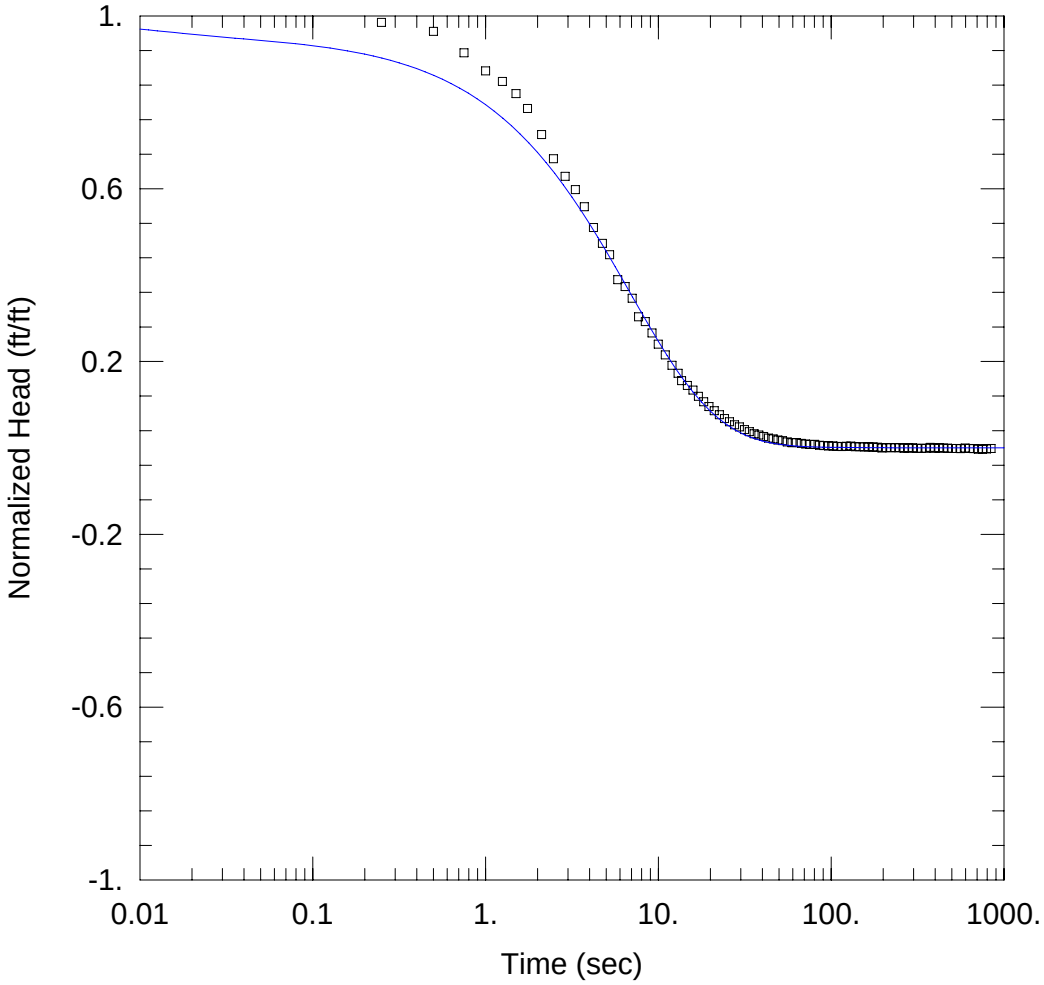
WELL DATA (KAFB106092)

Initial Displacement: 2.351 ft
Total Well Penetration Depth: 29.63 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.23 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 53.08 ft/day
y0 = 1.734 ft



KAFB106092P4

Data Set: C:\...\KAFB106092P4-KGS[1].aqt
Date: 08/26/11 Time: 09:51:59

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106092
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 46. ft

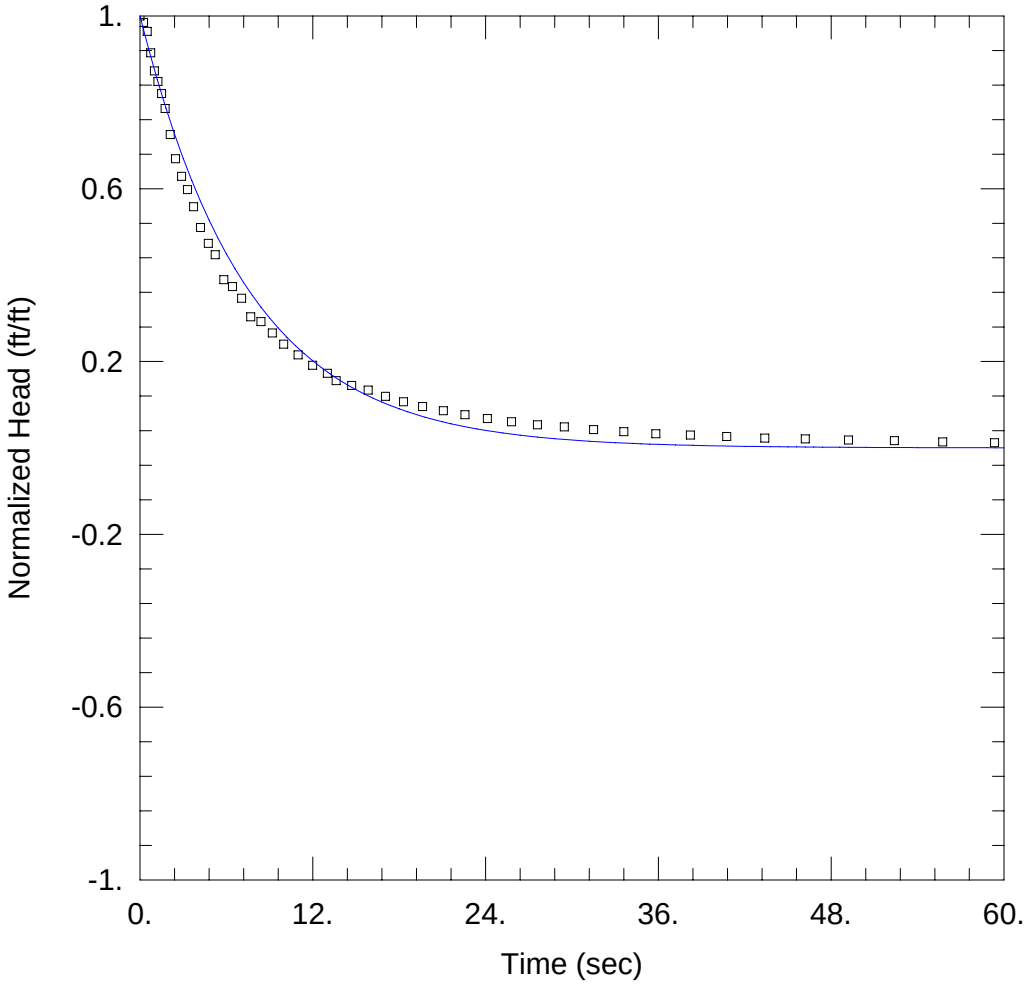
WELL DATA (KAFB106092)

Initial Displacement: 2.351 ft
Total Well Penetration Depth: 29.63 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 34.23 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 69.25 ft/day
Kz/Kr = 0.06383
Ss' = 0.001 ft^{-1}
Ss = 9.016E-6 ft^{-1}
Kr' = 178. ft/day
Kz/Kr' = 1.



KAFB106092P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106092P4-SG.aqt
Date: 08/26/11 Time: 09:45:44

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106092
Test Date: 8/1/11

AQUIFER DATA

Saturated Thickness: 46. ft
Anisotropy Ratio (Kz/Kr): 0.1

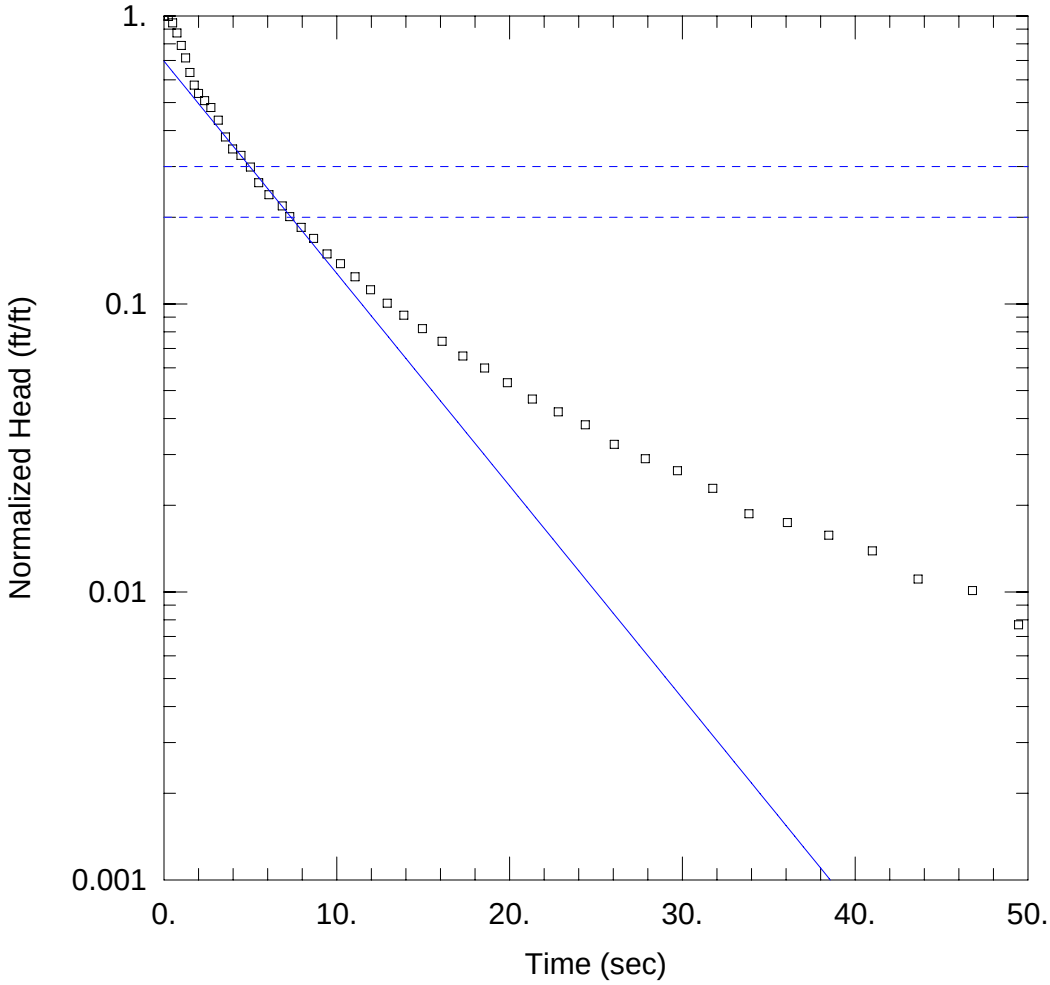
WELL DATA (KAFB106092)

Initial Displacement: 2.351 ft
Total Well Penetration Depth: 29.63 ft
Casing Radius: 0.198 ft
Static Water Column Height: 34.23 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 63.75 ft/day
Le = 1. ft



KAFB106095P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106095P1-BR.aqt
Date: 08/26/11 Time: 10:21:04

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106095
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.1

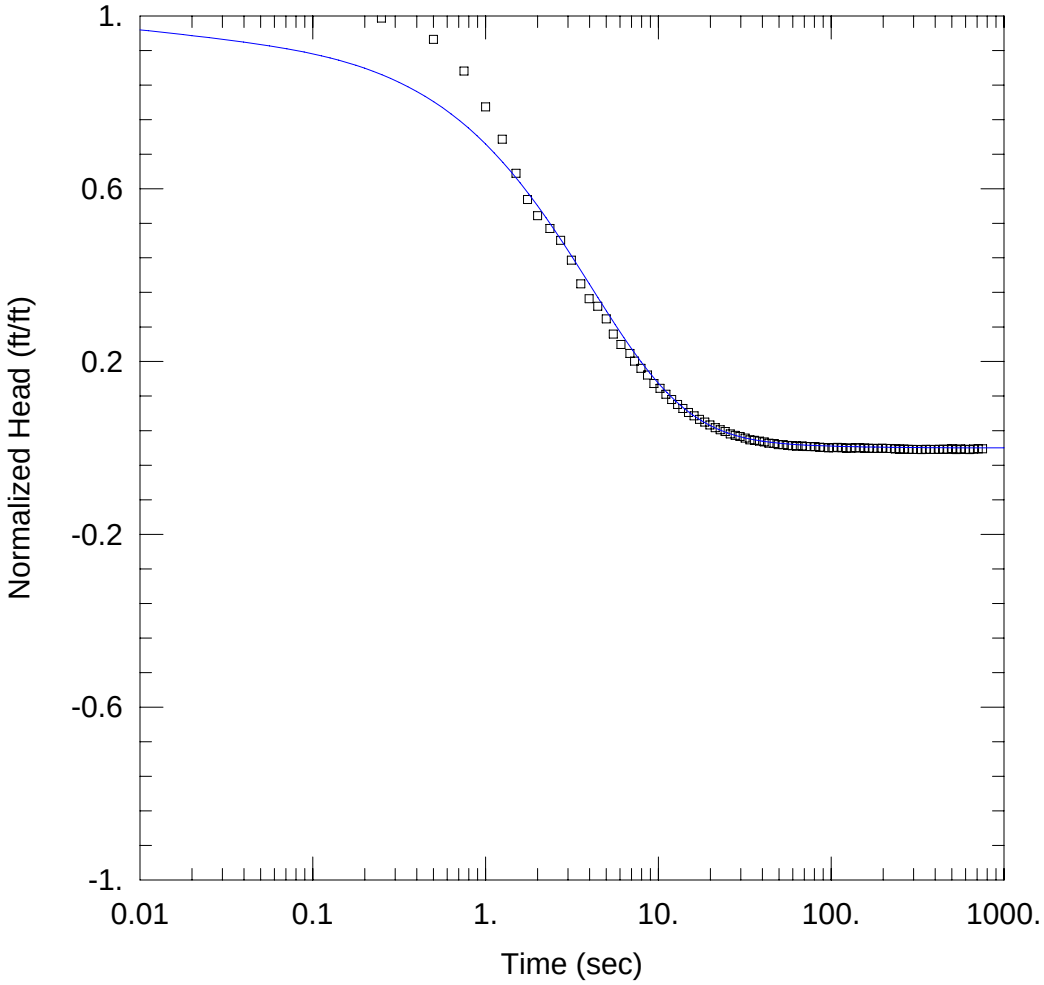
WELL DATA (KAFB106095)

Initial Displacement: 2.205 ft
Total Well Penetration Depth: 30.38 ft
Casing Radius: 0.198 ft
Static Water Column Height: 35.38 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 84.94 ft/day
y0 = 1.535 ft



KAFB106095P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106095P1-KGS.aqt
Date: 08/26/11 Time: 11:01:52

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106095
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 33. ft

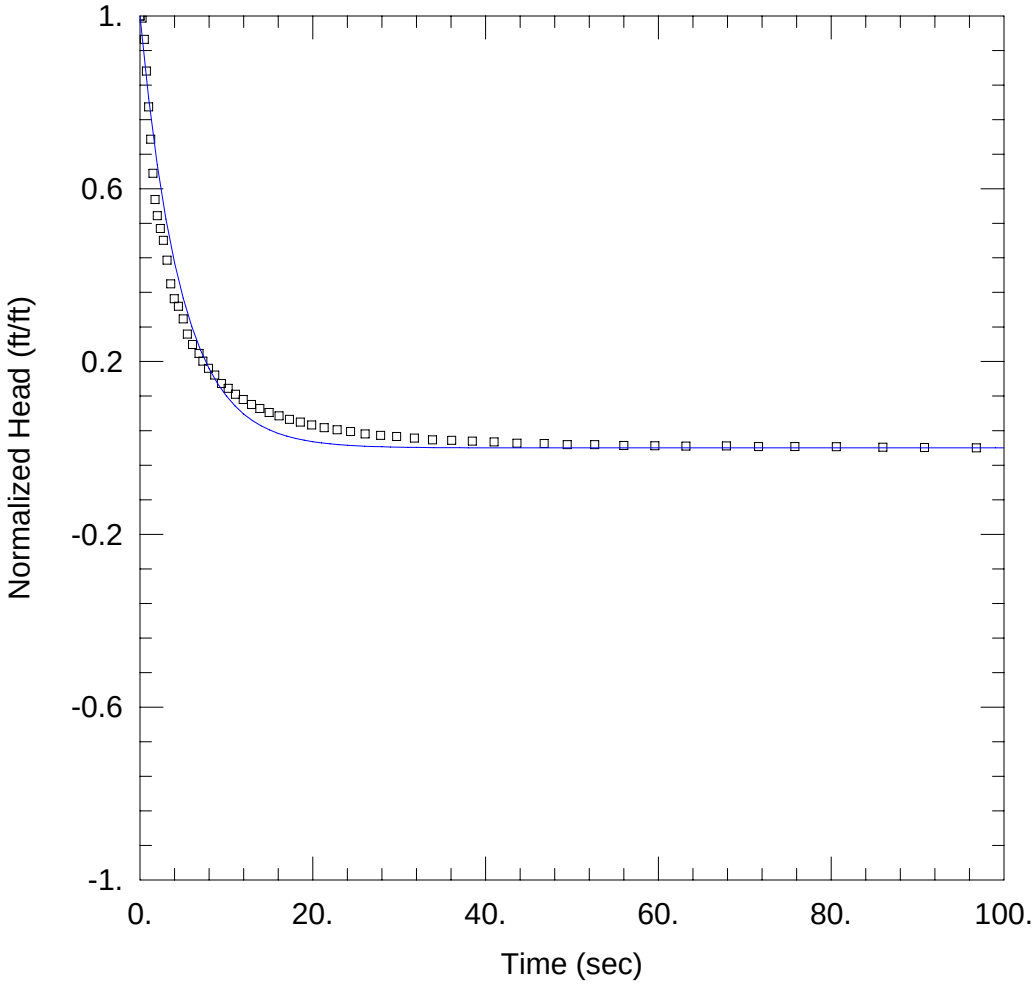
WELL DATA (KAFB106095)

Initial Displacement: 2.205 ft
Total Well Penetration Depth: 30.38 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 35.38 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model w/skin

Kr = 85.76 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 9.772E-5 ft^{-1}
Kr' = 196.1 ft/day
Kz/Kr' = 1.



KAFB106095P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106095P1-SG.aqt
Date: 08/26/11 Time: 10:22:16

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106095
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.1

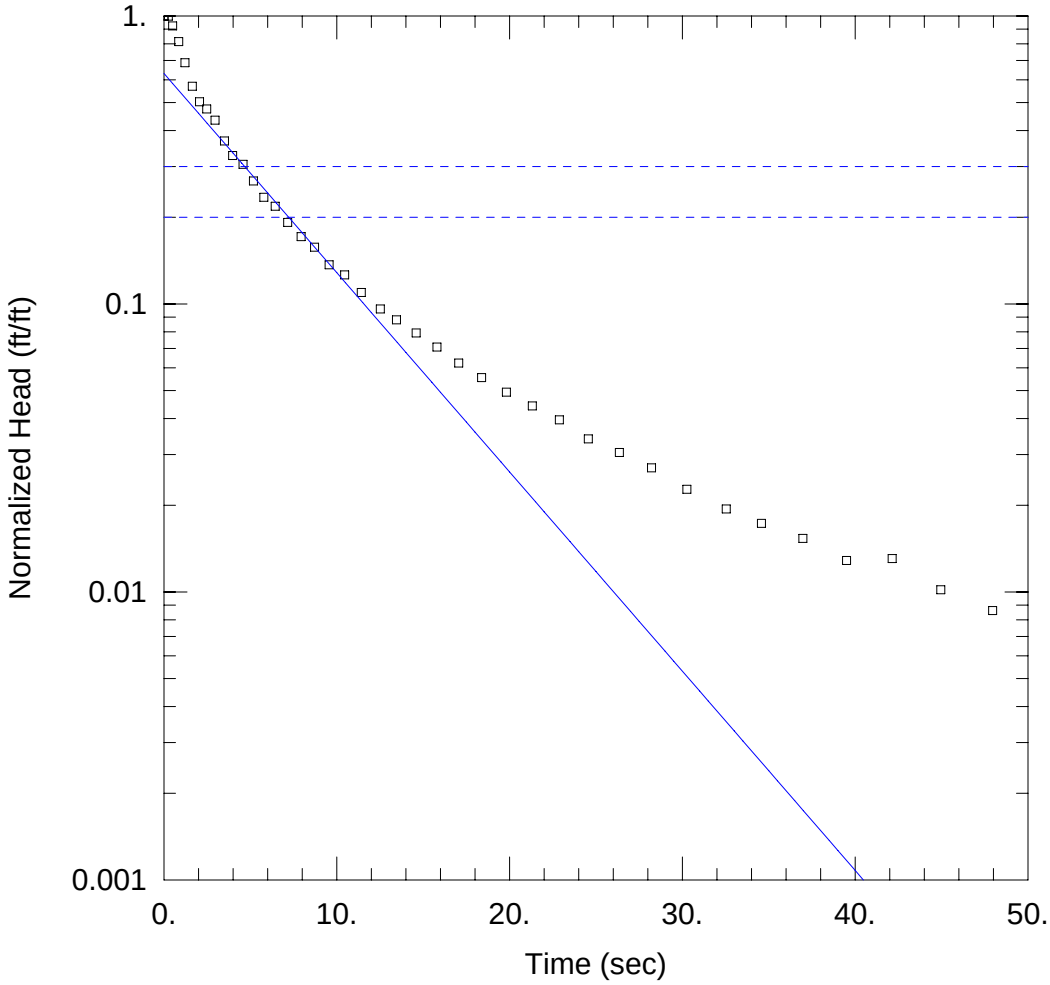
WELL DATA (KAFB106095)

Initial Displacement: 2.205 ft
Total Well Penetration Depth: 30.38 ft
Casing Radius: 0.198 ft
Static Water Column Height: 35.38 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 106.1 ft/day
Le = 1. ft



KAFB106095P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106095P2-BR.aqt
Date: 08/26/11 Time: 10:23:18

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106095
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.1

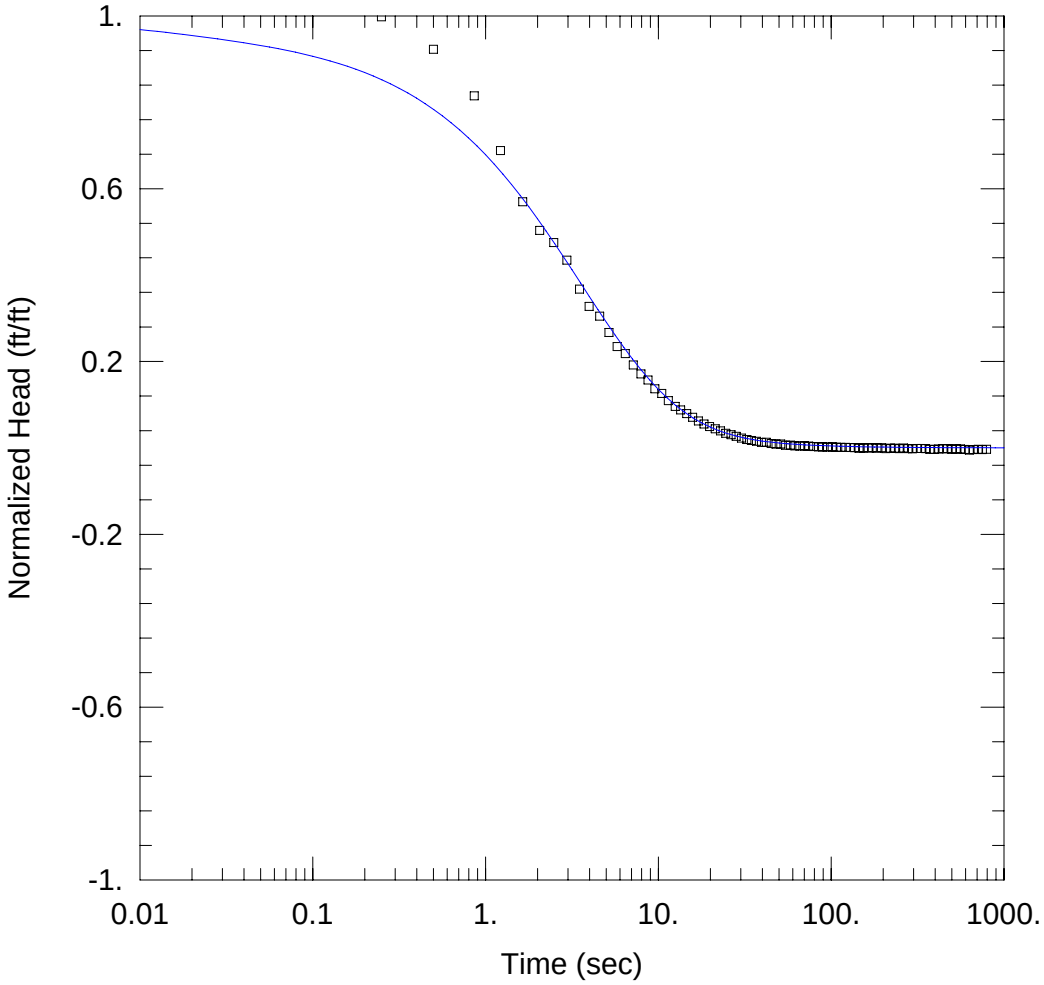
WELL DATA (KAFB106095)

Initial Displacement: 2.083 ft
Total Well Penetration Depth: 30.38 ft
Casing Radius: 0.198 ft
Static Water Column Height: 35.38 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 79.7 ft/day
y0 = 1.315 ft



KAFB106095P2

Data Set: C:\...\KAFB106095P2-KGS[1].aqt
Date: 08/26/11 Time: 10:33:30

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106095
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 33. ft

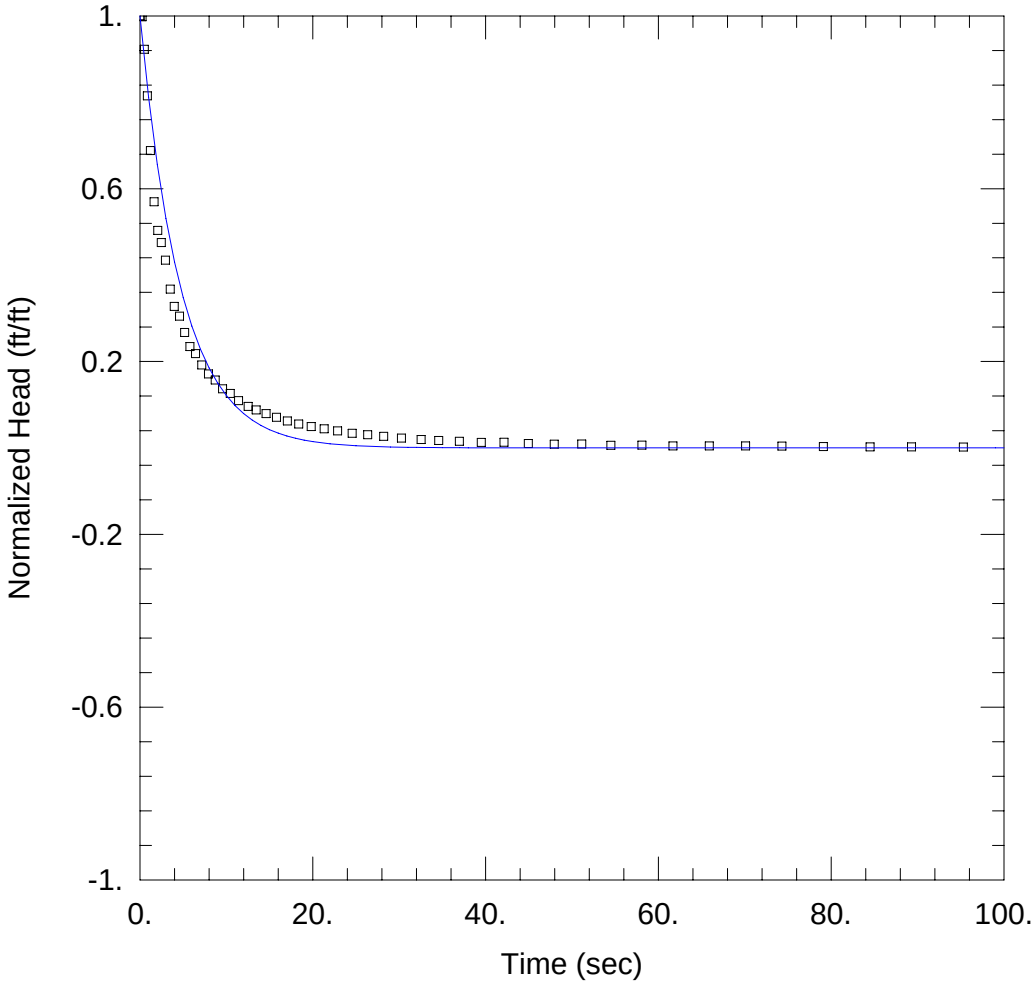
WELL DATA (KAFB106095)

Initial Displacement: 2.083 ft
Total Well Penetration Depth: 30.38 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 35.38 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 87.39 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 0.000182 ft^{-1}
Kr' = 187.3 ft/day
Kz/Kr' = 1.



KAFB106095P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106095P2-SG.aqt
Date: 08/26/11 Time: 10:25:03

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106095
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.1

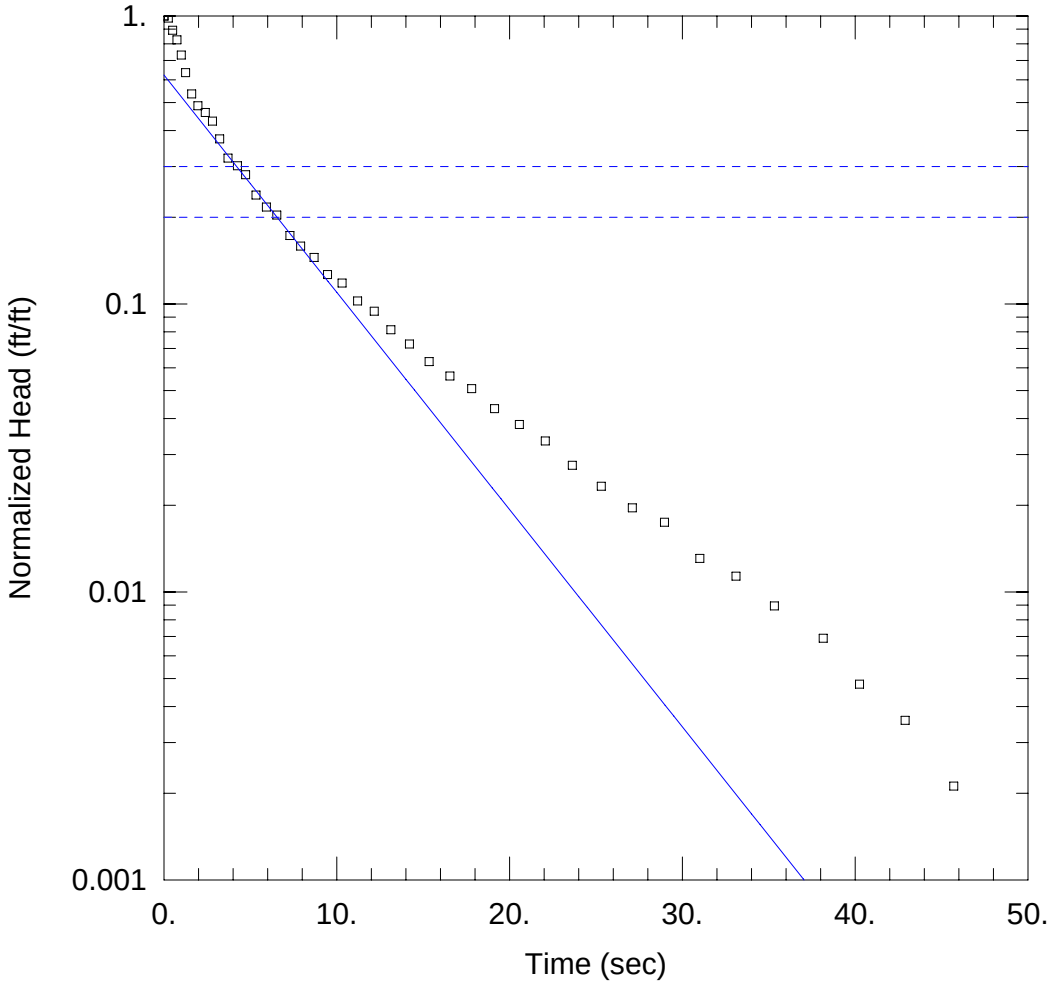
WELL DATA (KAFB106095)

Initial Displacement: 2.083 ft
Total Well Penetration Depth: 30.38 ft
Casing Radius: 0.198 ft
Static Water Column Height: 35.38 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 105.6 ft/day
Le = 1. ft



KAFB106095P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106095P3-BR.aqt
Date: 08/26/11 Time: 10:26:31

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106095
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.1

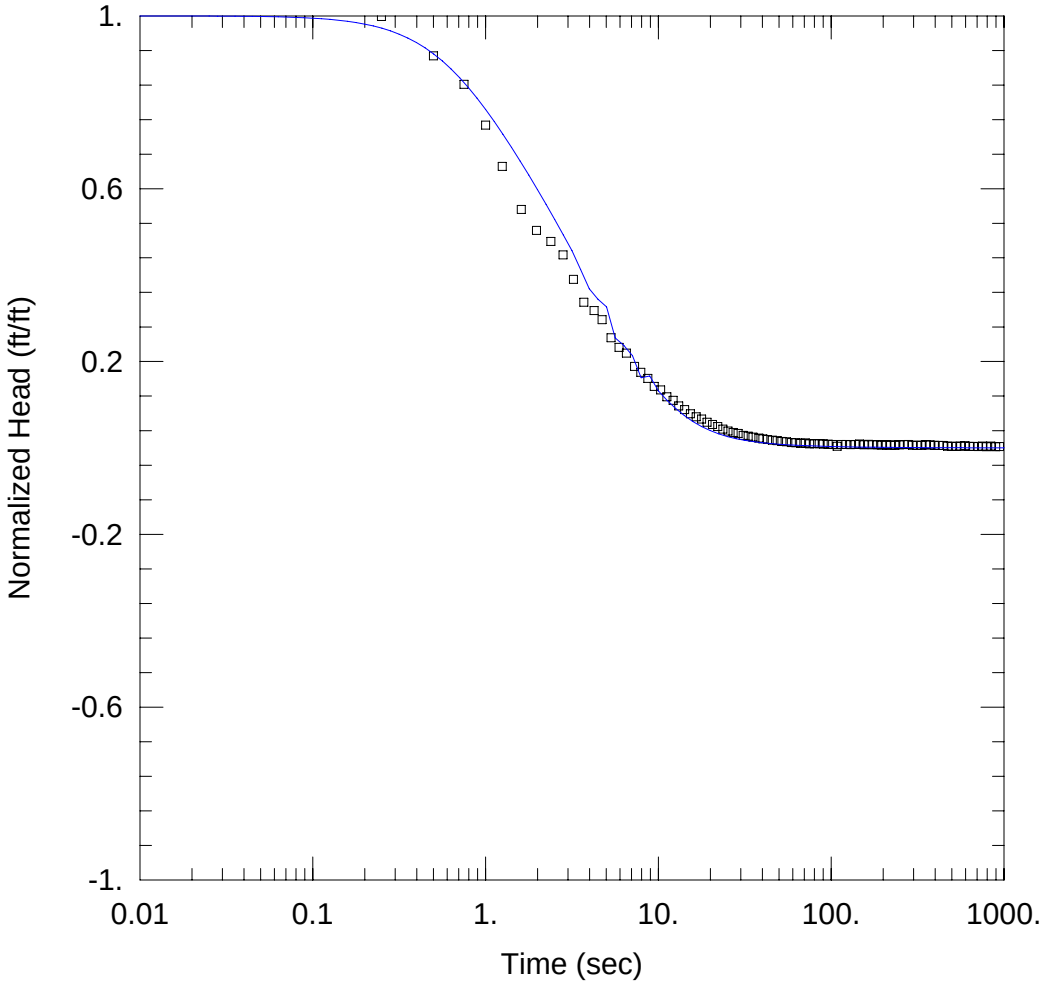
WELL DATA (KAFB106095)

Initial Displacement: 1.877 ft
Total Well Penetration Depth: 30.38 ft
Casing Radius: 0.198 ft
Static Water Column Height: 35.38 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 86.91 ft/day
y0 = 1.169 ft



KAFB106095P3

Data Set: C:\...\KAFB106095P3-BZ[1].aqt
Date: 08/26/11 Time: 10:37:40

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106095
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.01135

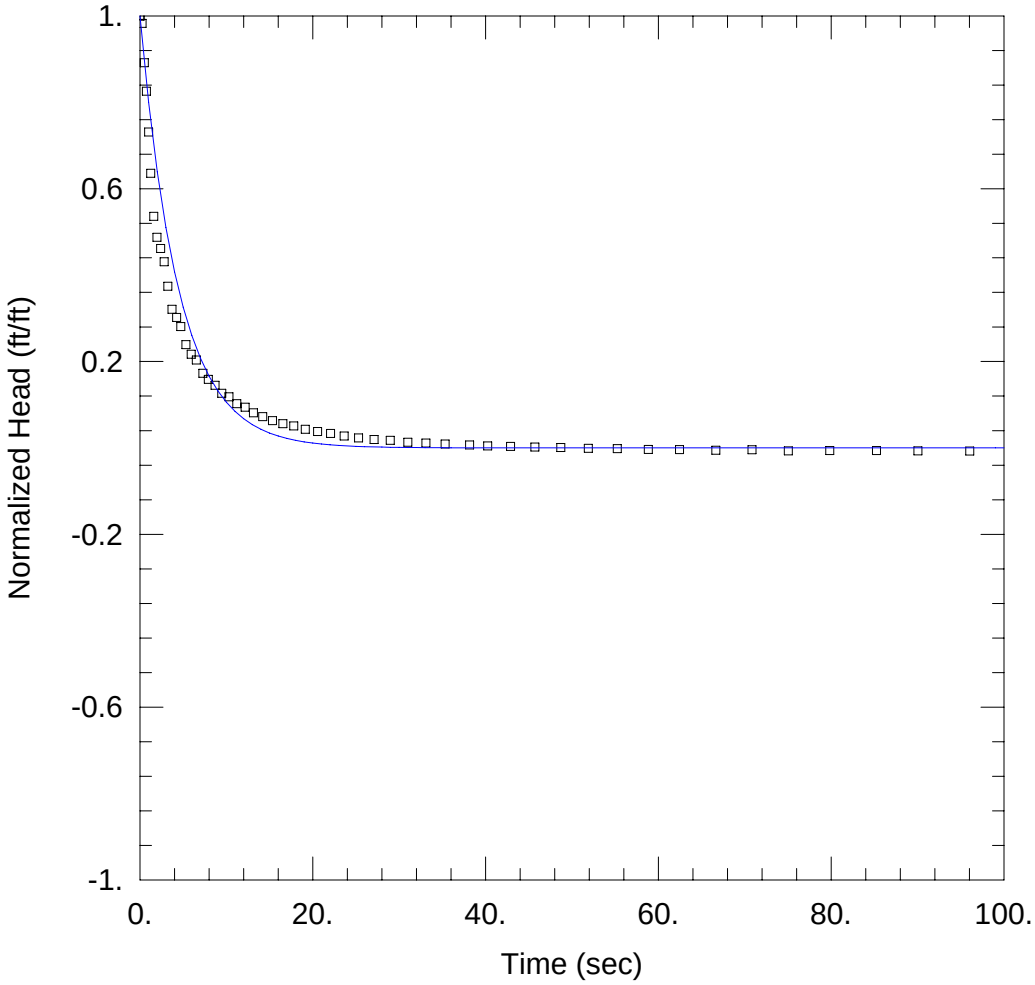
WELL DATA (KAFB106095)

Initial Displacement: 1.877 ft
Total Well Penetration Depth: 30.38 ft
Casing Radius: 0.198 ft
Static Water Column Height: 35.38 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 119.7 ft/day
Kz/Kr = 0.01135
Ss = 2.661E-5 ft^{-1}
Le = 28.84 ft



KAFB106095P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106095P3-SG.aqt
Date: 08/26/11 Time: 10:27:30

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106095
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.1

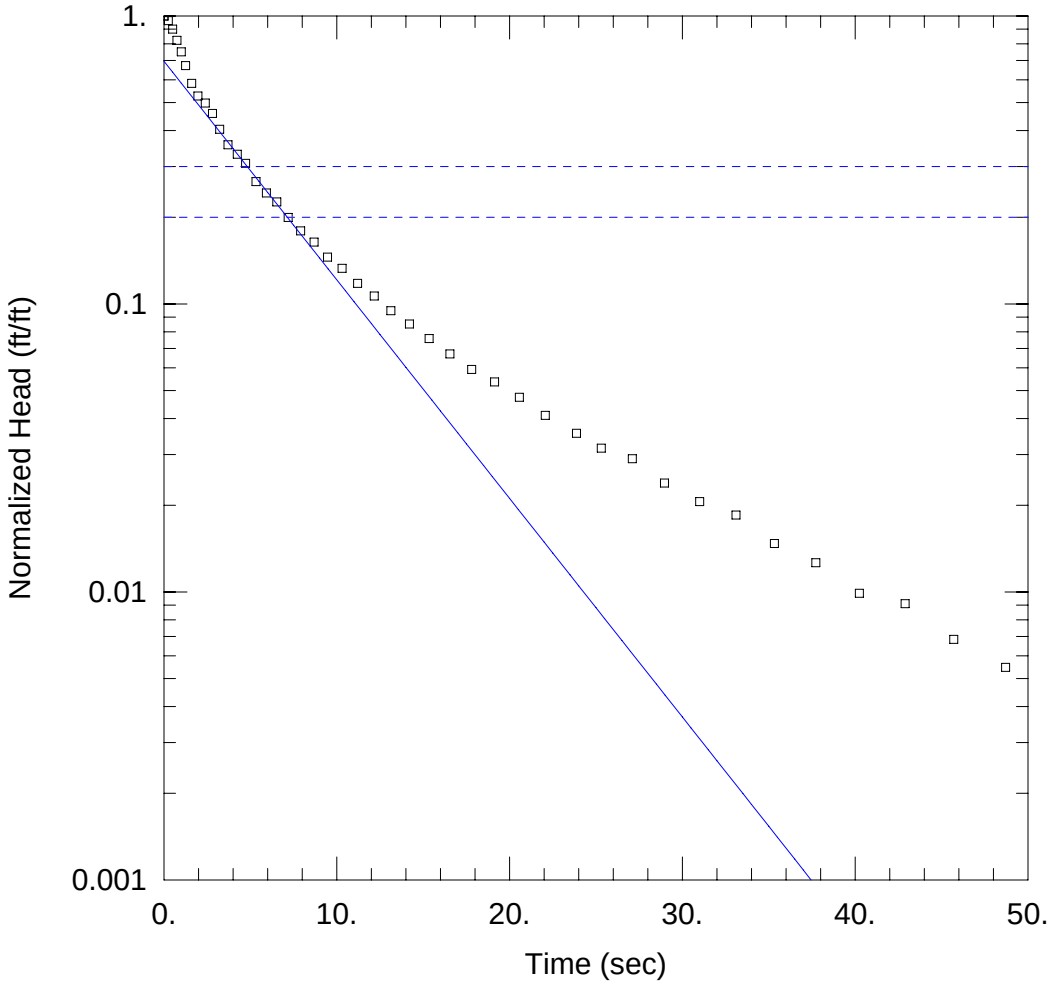
WELL DATA (KAFB106095)

Initial Displacement: 1.877 ft
Total Well Penetration Depth: 30.38 ft
Casing Radius: 0.198 ft
Static Water Column Height: 35.38 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 112.3 ft/day
Le = 1. ft



KAFB106095P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106095P4-BR.aqt
Date: 08/26/11 Time: 10:28:33

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106095
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.1

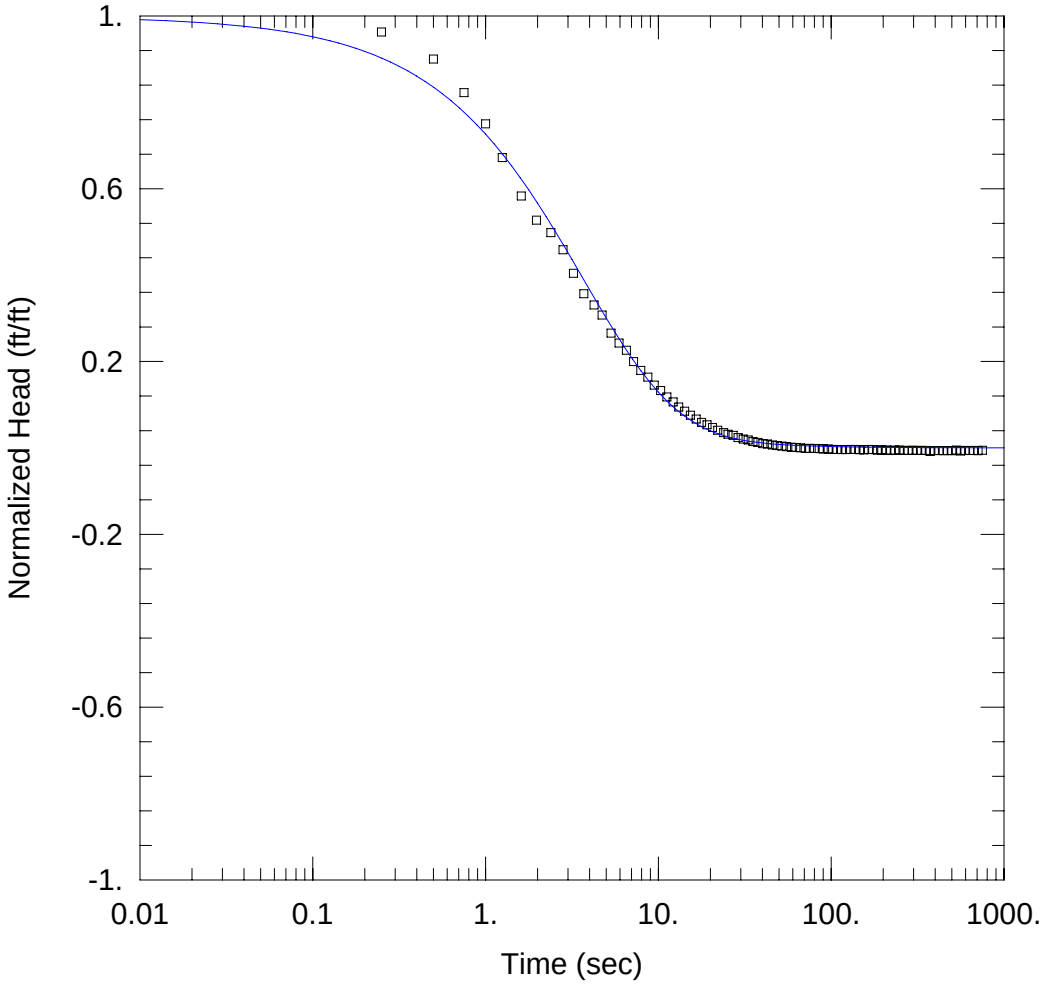
WELL DATA (KAFB106095)

Initial Displacement: 2.313 ft
Total Well Penetration Depth: 30.38 ft
Casing Radius: 0.198 ft
Static Water Column Height: 35.38 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 87.44 ft/day
y0 = 1.61 ft



KAFB106095P4

Data Set: C:\...\KAFB106095P4-KGS[1].aqt
Date: 08/26/11 Time: 10:39:13

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106095
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 33. ft

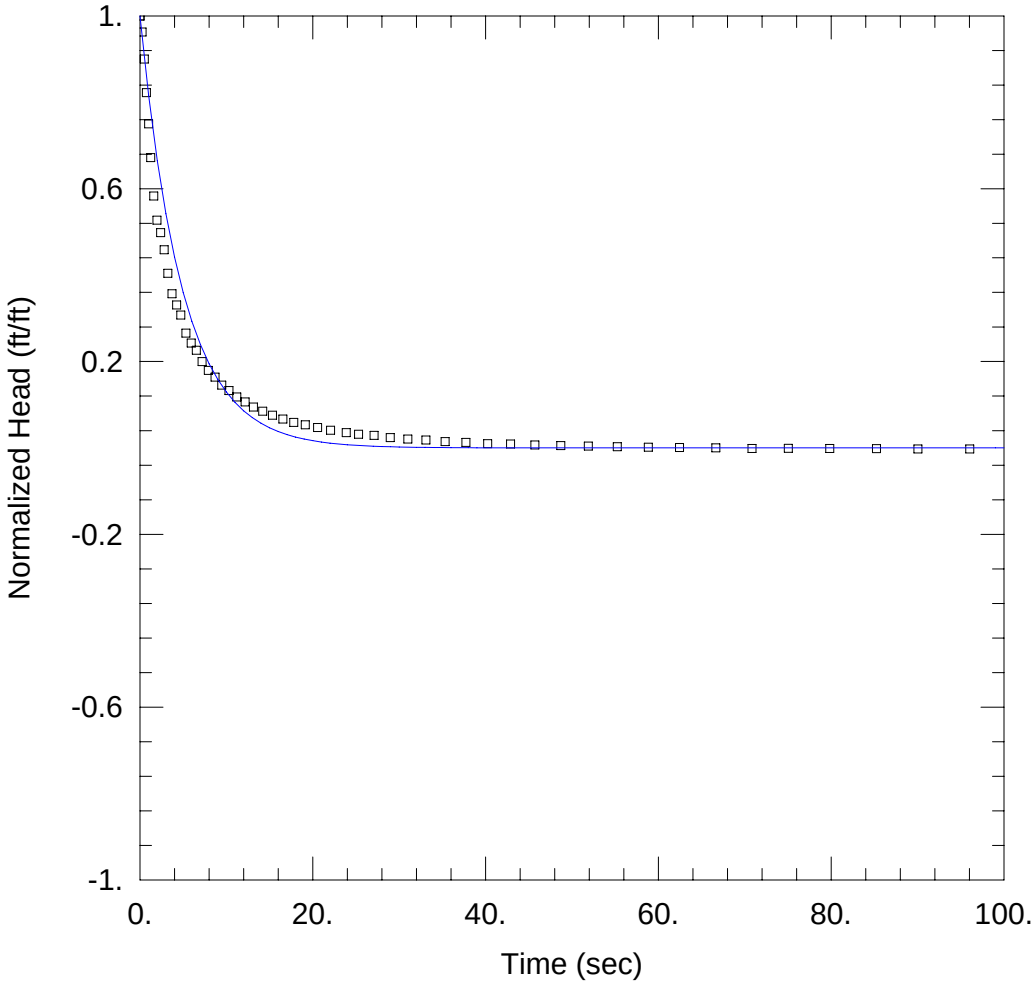
WELL DATA (KAFB106095)

Initial Displacement: 2.313 ft
Total Well Penetration Depth: 30.38 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 35.38 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 108. ft/day
Kz/Kr = 0.03548
Ss' = 1.585E-5 ft^{-1}
Ss = 4.027E-5 ft^{-1}
Kr' = 178.9 ft/day
Kz/Kr' = 1.



KAFB106095P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106095P4-SG.aqt
Date: 08/26/11 Time: 10:29:25

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106095
Test Date: 7/25/11

AQUIFER DATA

Saturated Thickness: 33. ft
Anisotropy Ratio (Kz/Kr): 0.1

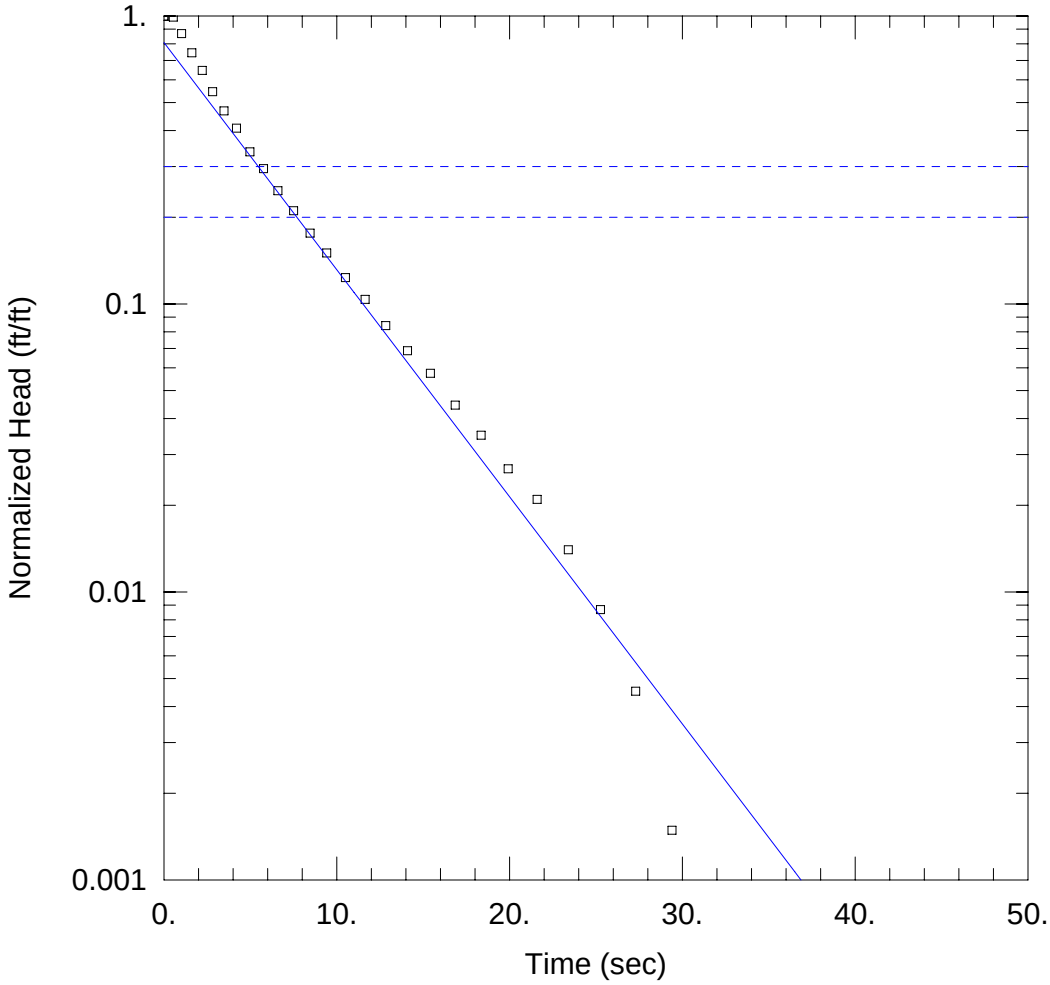
WELL DATA (KAFB106095)

Initial Displacement: 2.313 ft
Total Well Penetration Depth: 30.38 ft
Casing Radius: 0.198 ft
Static Water Column Height: 35.38 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 102.3 ft/day
Le = 1. ft



KAFB106096P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106096P1-BR.aqt
Date: 08/26/11 Time: 10:43:45

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.1

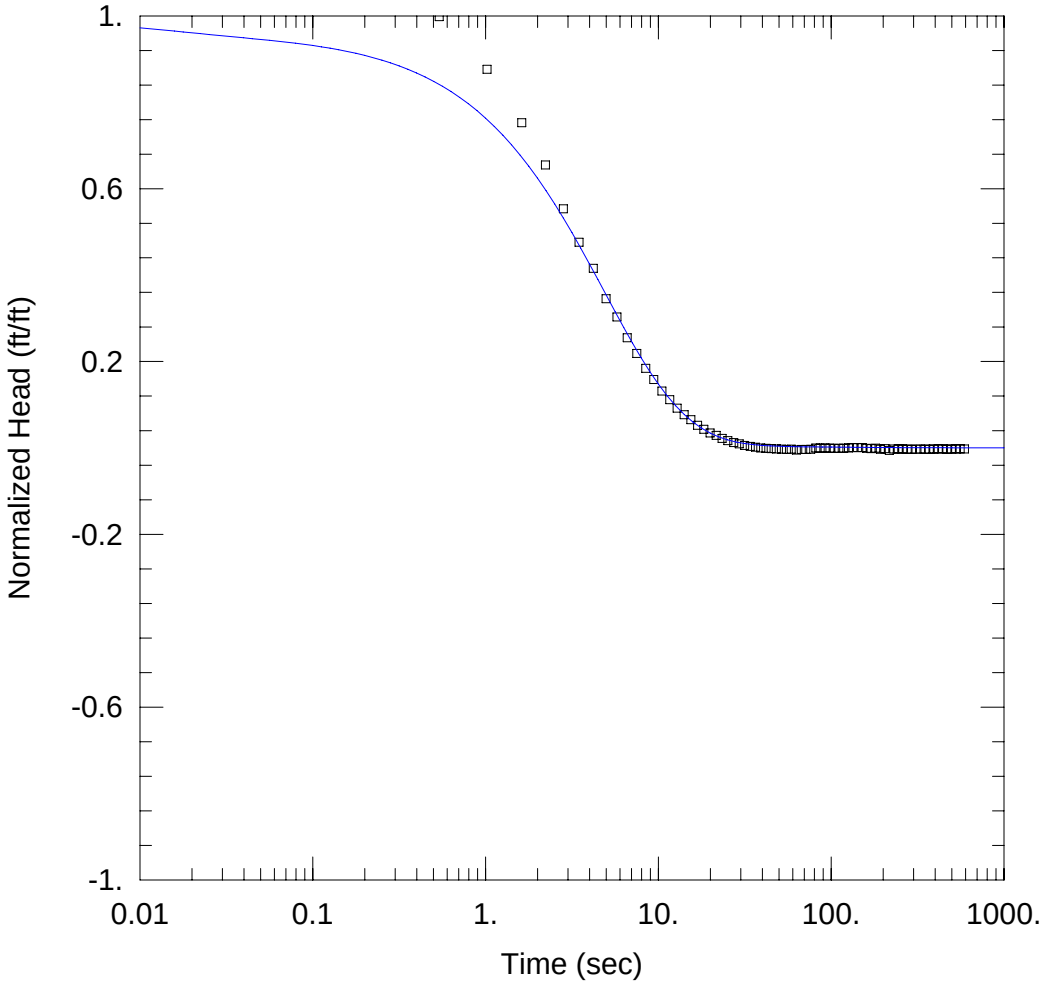
WELL DATA (KAFB106096)

Initial Displacement: 2.5 ft
Total Well Penetration Depth: 102.3 ft
Casing Radius: 0.198 ft
Static Water Column Height: 107.3 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 113.5 ft/day
y0 = 2.021 ft



KAFB106096P1

Data Set: C:\...\KAFB106096P1-KGS[1].aqt
Date: 08/26/11 Time: 10:51:32

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 43. ft

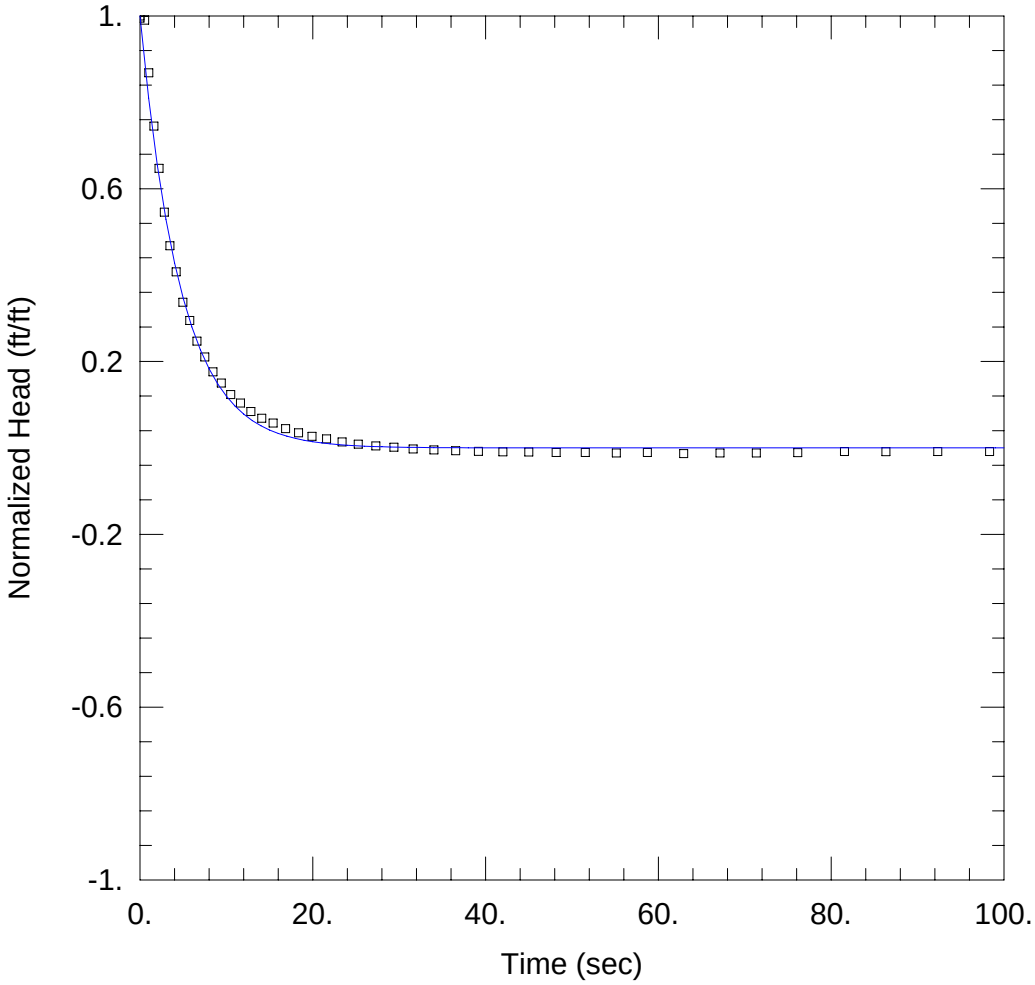
WELL DATA (KAFB106096)

Initial Displacement: 2.5 ft
Total Well Penetration Depth: 102.3 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 107.3 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 119. ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 1.259E-6 ft^{-1}
Kr' = 148.6 ft/day
Kz/Kr' = 1.



KAFB106096P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106096P1-SG.aqt
Date: 08/26/11 Time: 10:44:20

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.1

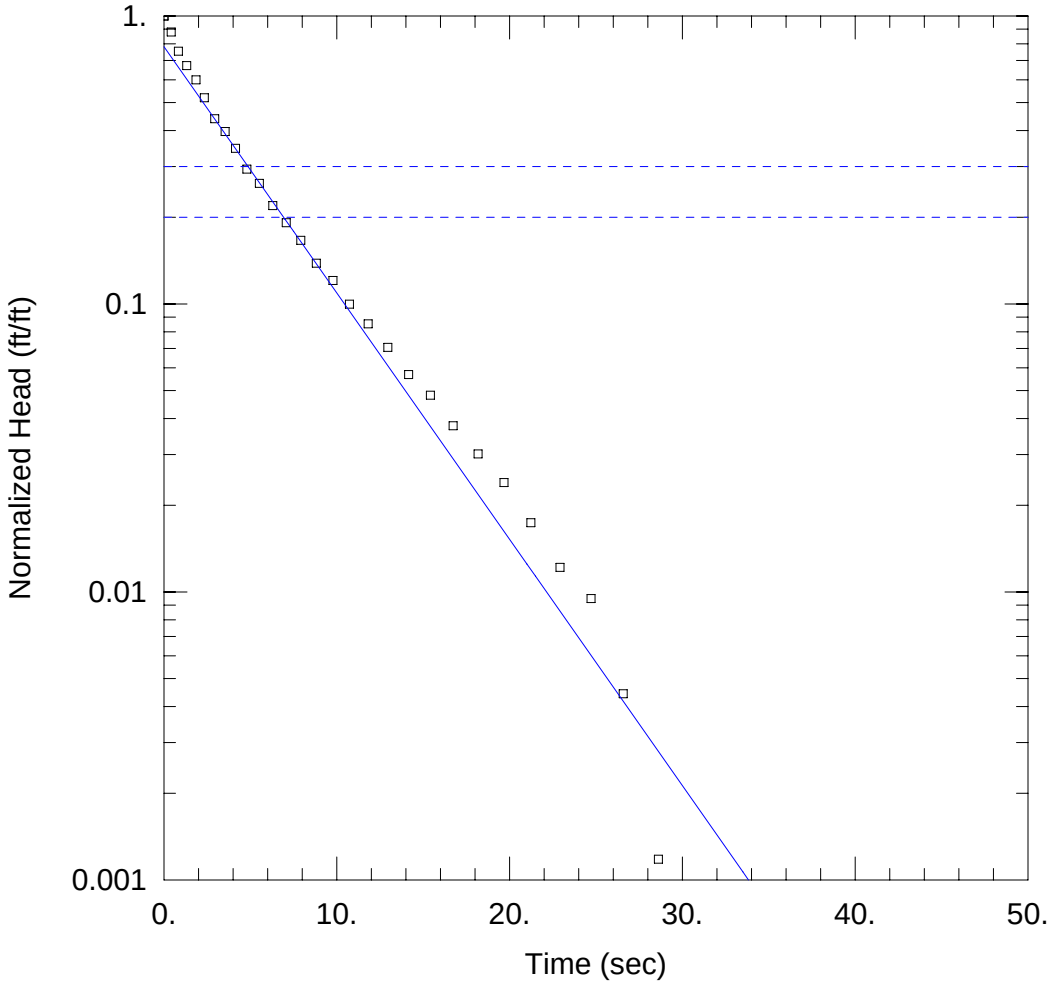
WELL DATA (KAFB106096)

Initial Displacement: 2.5 ft
Total Well Penetration Depth: 102.3 ft
Casing Radius: 0.198 ft
Static Water Column Height: 107.3 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 132.8 ft/day
Le = 1. ft



KAFB106096P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106096P2-BR.aqt
Date: 08/26/11 Time: 10:45:27

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.1

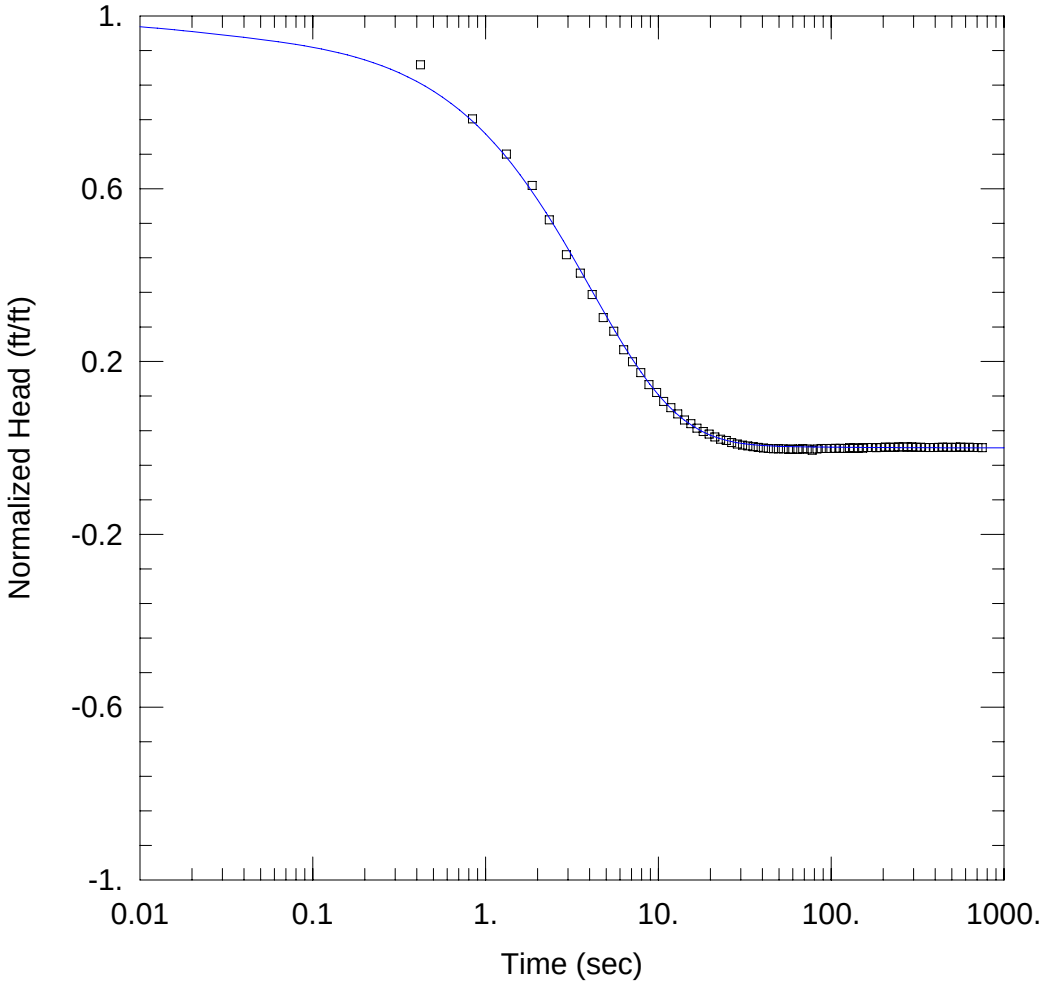
WELL DATA (KAFB106096)

Initial Displacement: 2.537 ft
Total Well Penetration Depth: 102.3 ft
Casing Radius: 0.198 ft
Static Water Column Height: 107.3 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 123.1 ft/day
y0 = 1.983 ft



KAFB106096P2

Data Set: C:\...\KAFB106096P2-KGS[1].aqt
Date: 08/26/11 Time: 10:53:00

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 43. ft

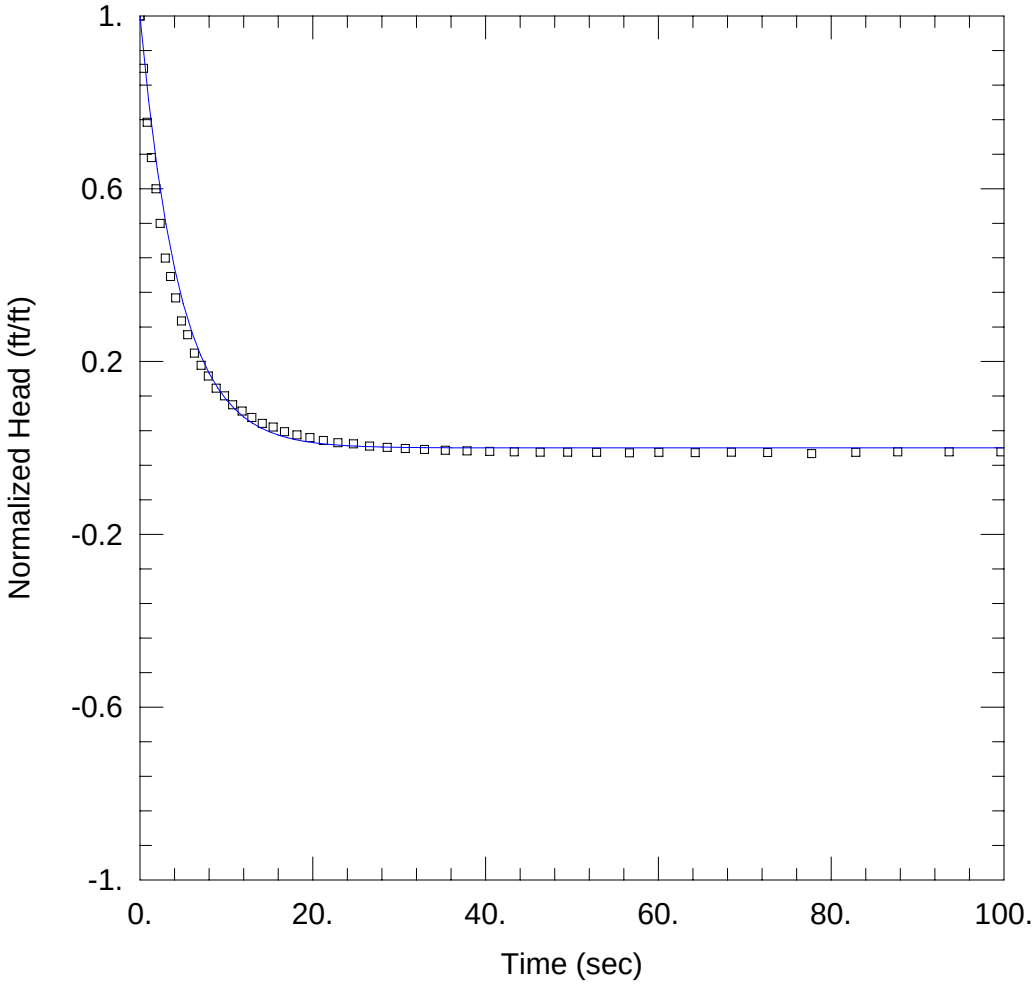
WELL DATA (KAFB106096)

Initial Displacement: 2.537 ft
Total Well Penetration Depth: 102.3 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 107.3 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 128.5 ft/day
Kz/Kr = 0.1096
Ss' = 0.001 ft^{-1}
Ss = 1.0E-5 ft^{-1}
Kr' = 123.1 ft/day
Kz/Kr' = 1.



KAFB106096P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106096P2-SG.aqt
Date: 08/26/11 Time: 10:46:12

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.1

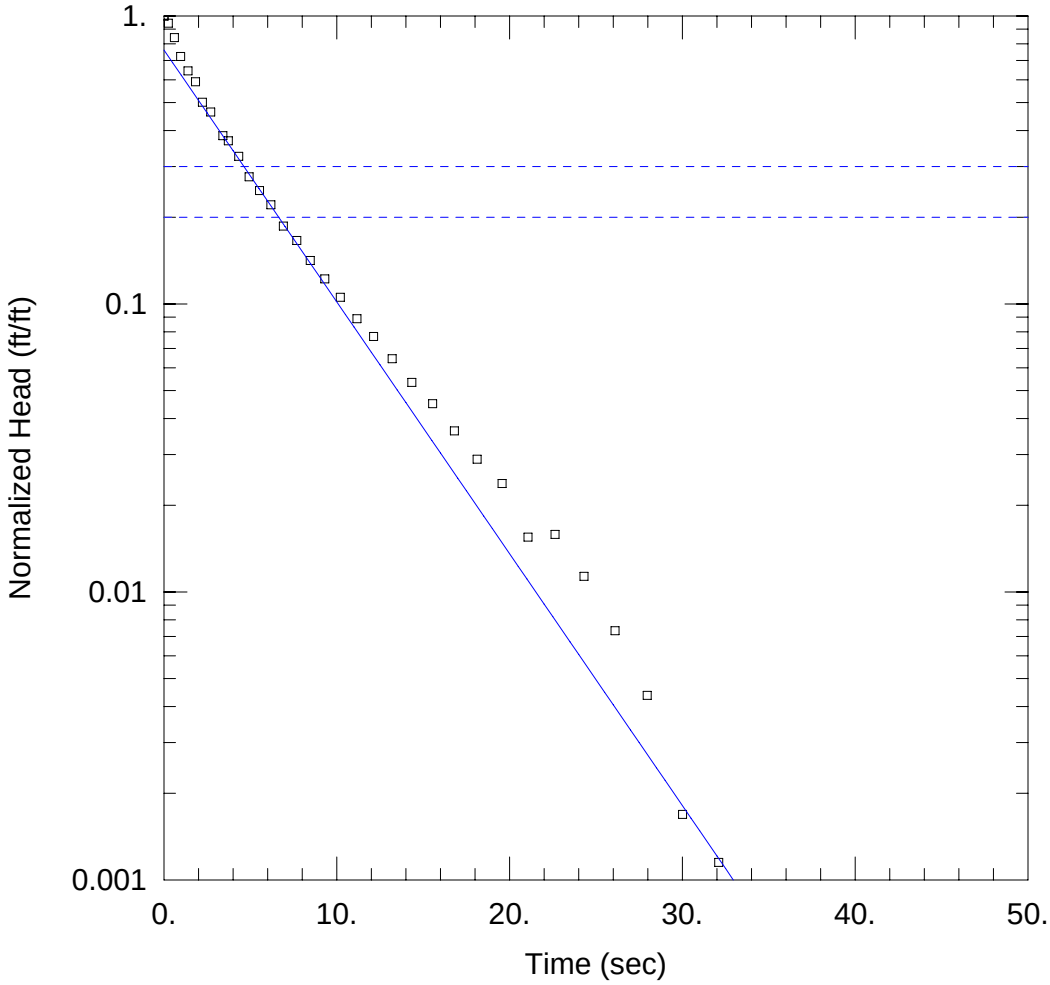
WELL DATA (KAFB106096)

Initial Displacement: 2.537 ft
Total Well Penetration Depth: 102.3 ft
Casing Radius: 0.198 ft
Static Water Column Height: 107.3 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 137.3 ft/day
Le = 1. ft



KAFB106096P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106096P3-BR.aqt
Date: 08/26/11 Time: 10:46:47

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.1

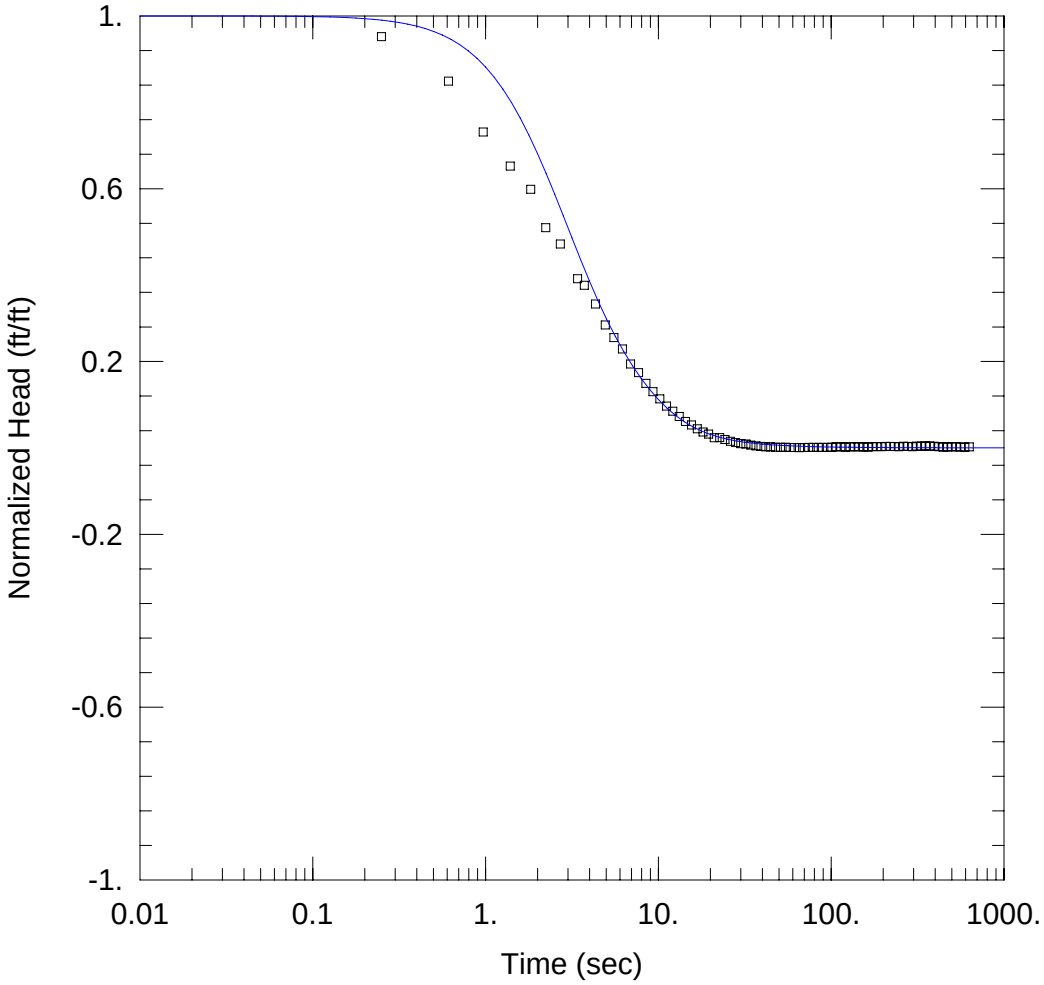
WELL DATA (KAFB106096)

Initial Displacement: 2.477 ft
Total Well Penetration Depth: 102.3 ft
Casing Radius: 0.198 ft
Static Water Column Height: 107.3 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 125.8 ft/day
y0 = 1.885 ft



KAFB106096P3

Data Set: C:\...\KAFB106096P3-BZ[1].aqt
Date: 08/26/11 Time: 10:54:59

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.02399

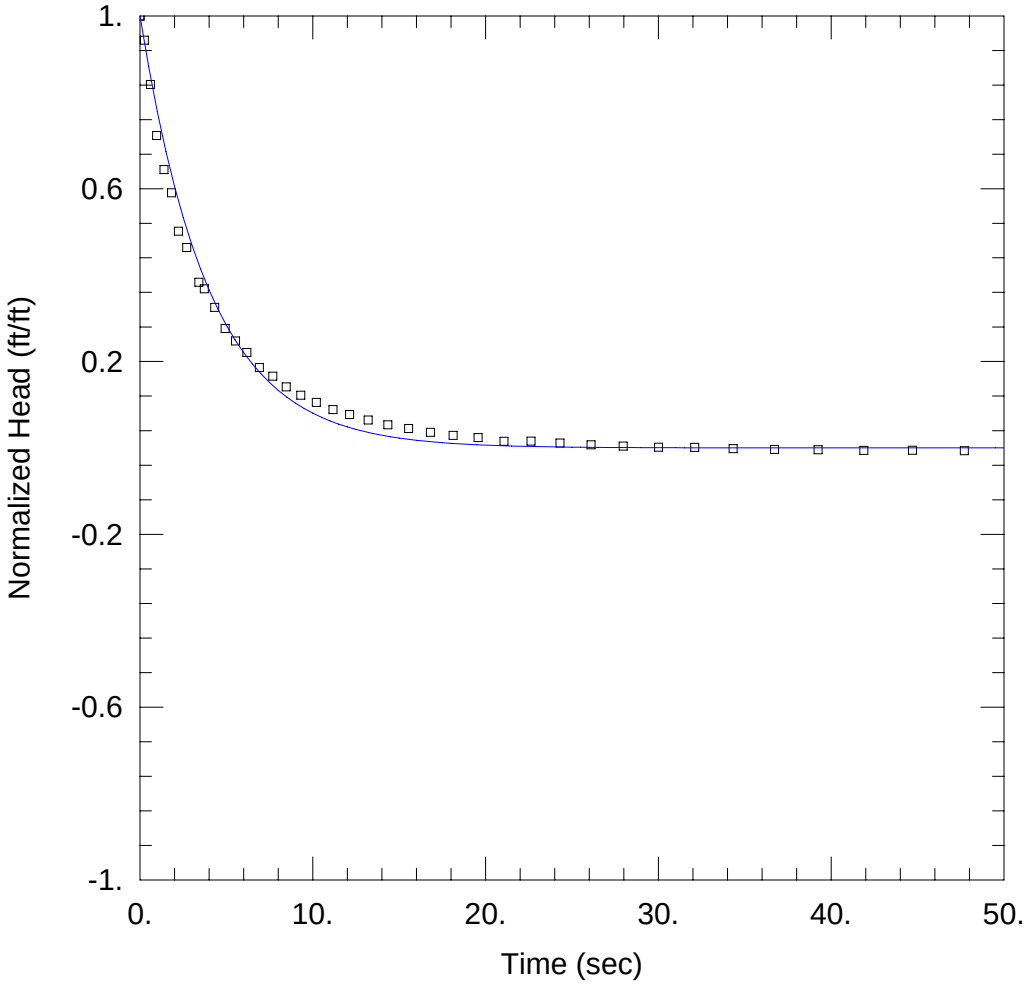
WELL DATA (KAFB106096)

Initial Displacement: 2.477 ft
Total Well Penetration Depth: 102.3 ft
Casing Radius: 0.198 ft
Static Water Column Height: 107.3 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 129.1 ft/day
Kz/Kr = 0.02399
Ss = 1.0E-5 ft^{-1}
Le = 95.5 ft



KAFB106096P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106096P3-SG.aqt
Date: 08/26/11 Time: 10:47:18

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.1

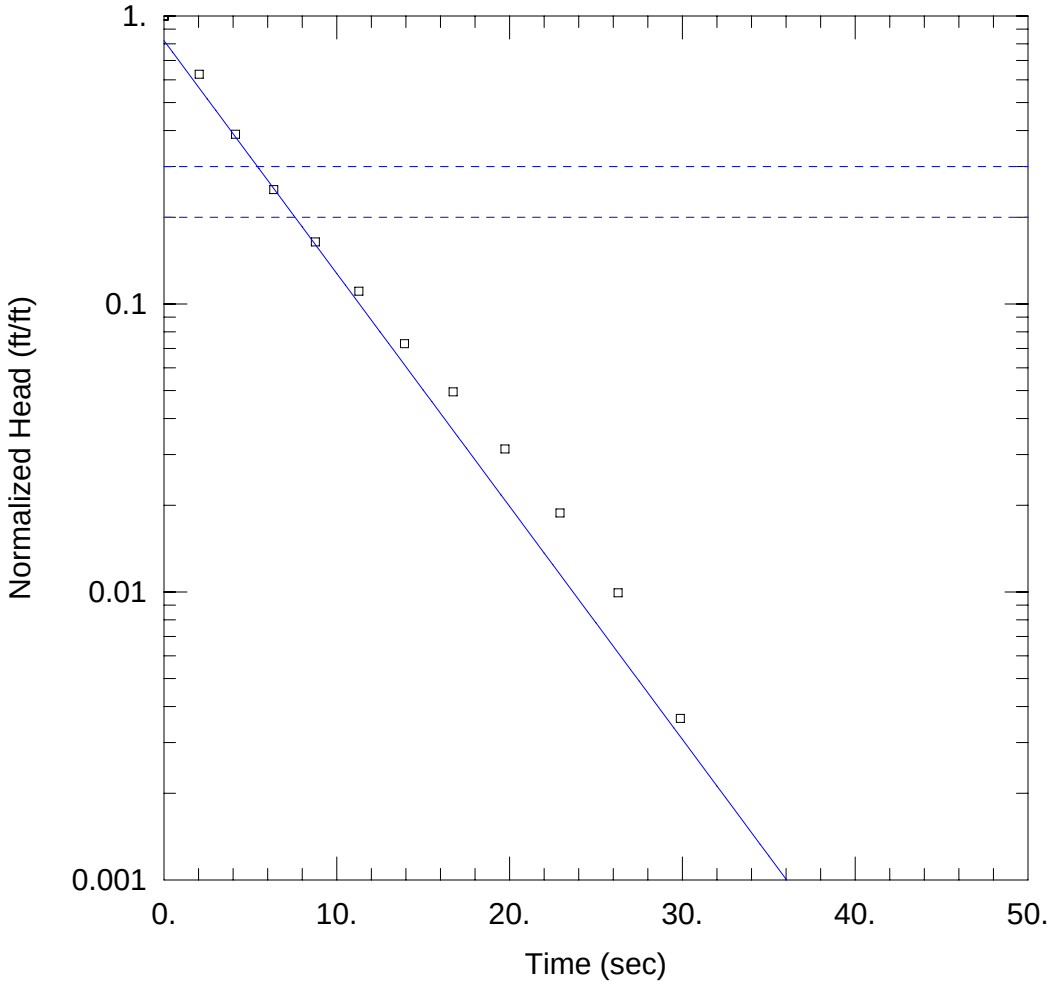
WELL DATA (KAFB106096)

Initial Displacement: 2.477 ft
Total Well Penetration Depth: 102.3 ft
Casing Radius: 0.198 ft
Static Water Column Height: 107.3 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 157.6 ft/day
Le = 1. ft



KAFB106096P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106096P4-BR.aqt
Date: 08/26/11 Time: 10:48:05

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.1

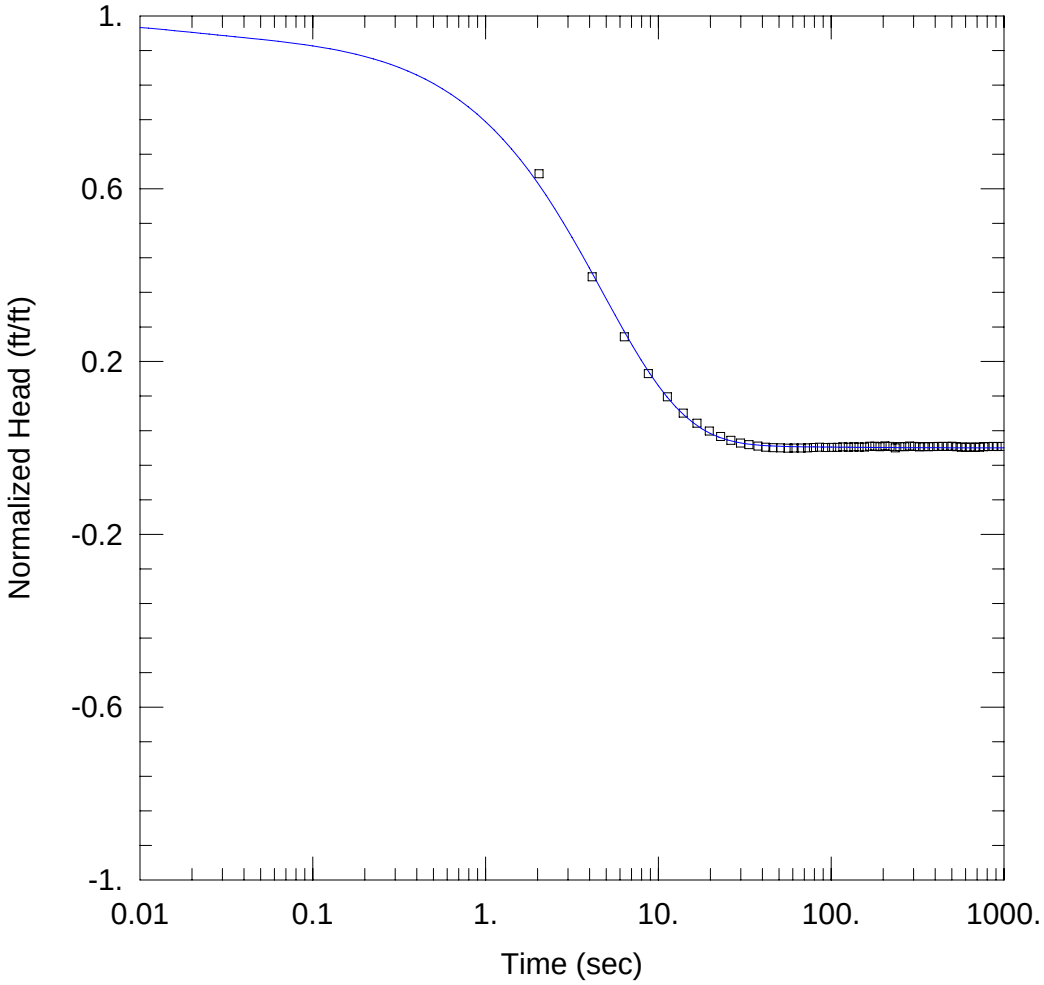
WELL DATA (KAFB106096)

Initial Displacement: 2.568 ft
Total Well Penetration Depth: 102.3 ft
Casing Radius: 0.198 ft
Static Water Column Height: 107.3 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 116.4 ft/day
y0 = 2.108 ft



KAFB106096P4

Data Set: C:\...\KAFB106096P4-KGS[1].aqt
Date: 08/26/11 Time: 10:56:25

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 43. ft

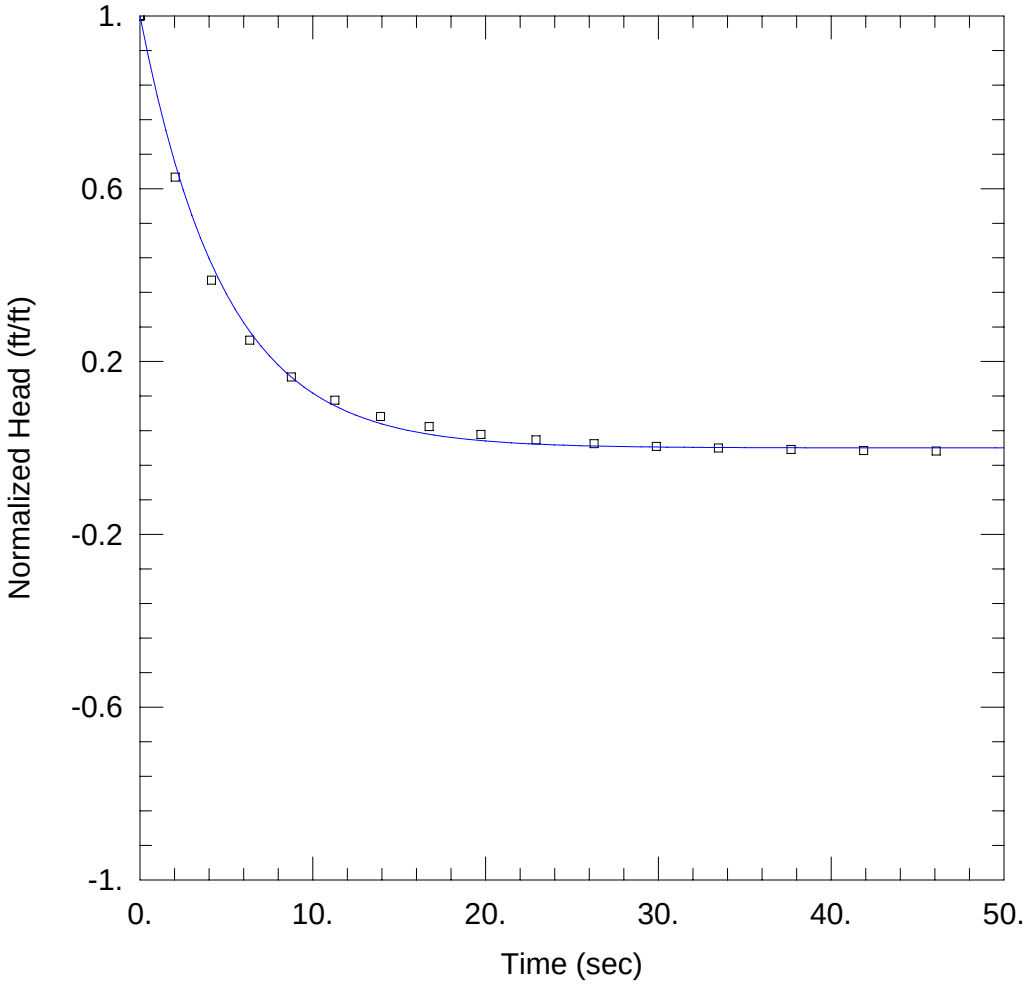
WELL DATA (KAFB106096)

Initial Displacement: 2.568 ft
Total Well Penetration Depth: 102.3 ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 107.3 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 119.5 ft/day
Kz/Kr = 0.1
Ss' = 0.001 ft^{-1}
Ss = 2.6E-6 ft^{-1}
Kr' = 138.9 ft/day
Kz/Kr' = 1.



KAFB106096P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106096P4-SG.aqt
Date: 08/26/11 Time: 10:49:03

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 7/26/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.1

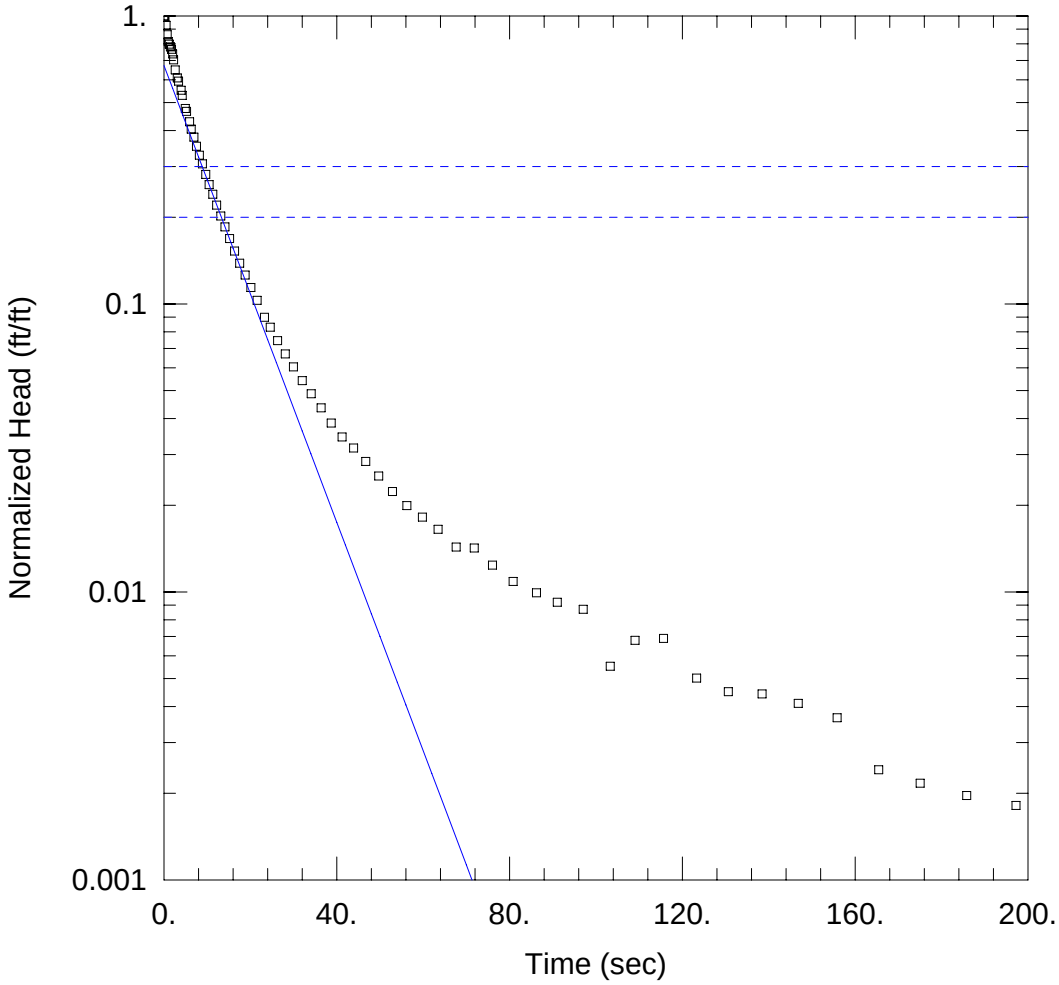
WELL DATA (KAFB106096)

Initial Displacement: 2.568 ft
Total Well Penetration Depth: 102.3 ft
Casing Radius: 0.198 ft
Static Water Column Height: 107.3 ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 129.2 ft/day
Le = 1. ft



KAFB106105P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106105P1-BR.aqt
Date: 10/06/11 Time: 14:57:39

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106105
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 37. ft
Anisotropy Ratio (Kz/Kr): 1.0E-5

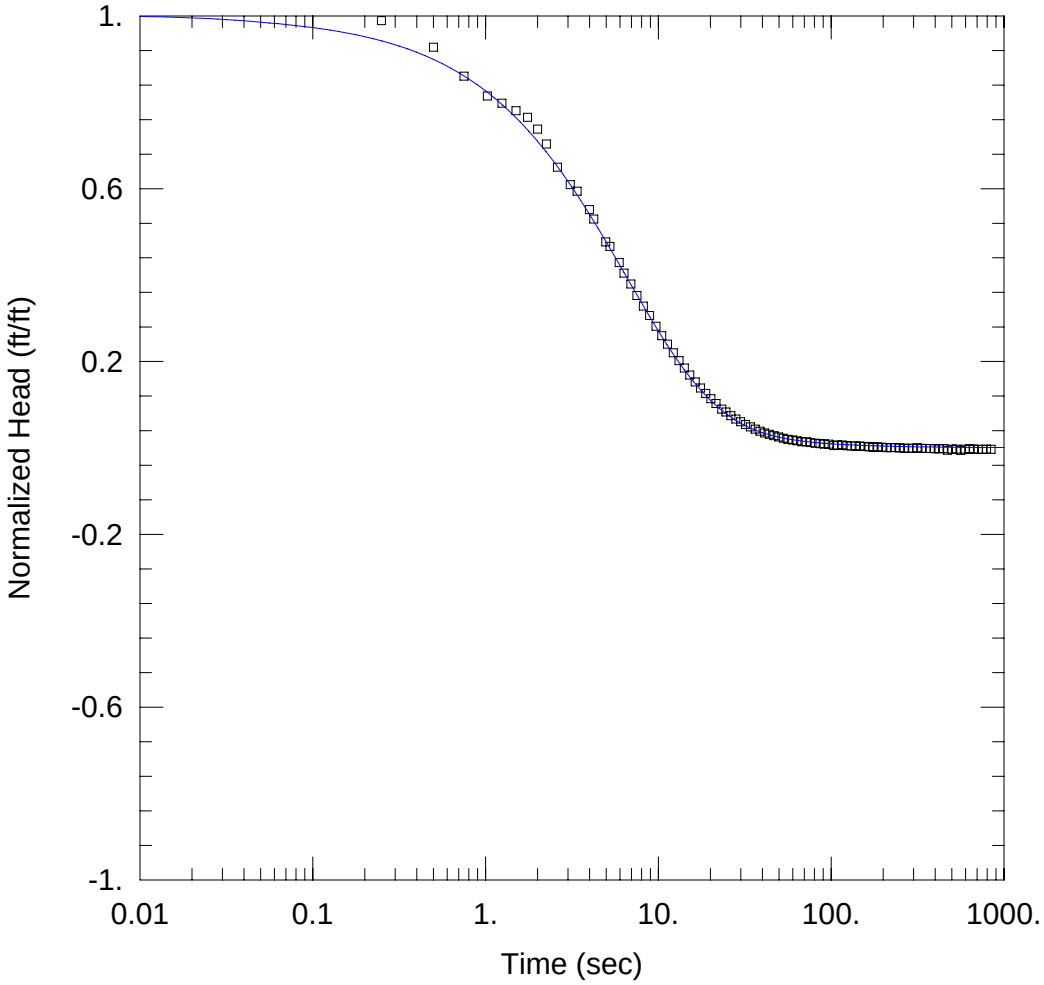
WELL DATA (KAFB106105)

Initial Displacement: 2.375 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 93.37 ft/day
y0 = 1.597 ft



KAFB106105P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106105P1-BZ.aqt
Date: 10/06/11 Time: 14:57:15

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106105
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 37. ft
Anisotropy Ratio (Kz/Kr): 1.0E-5

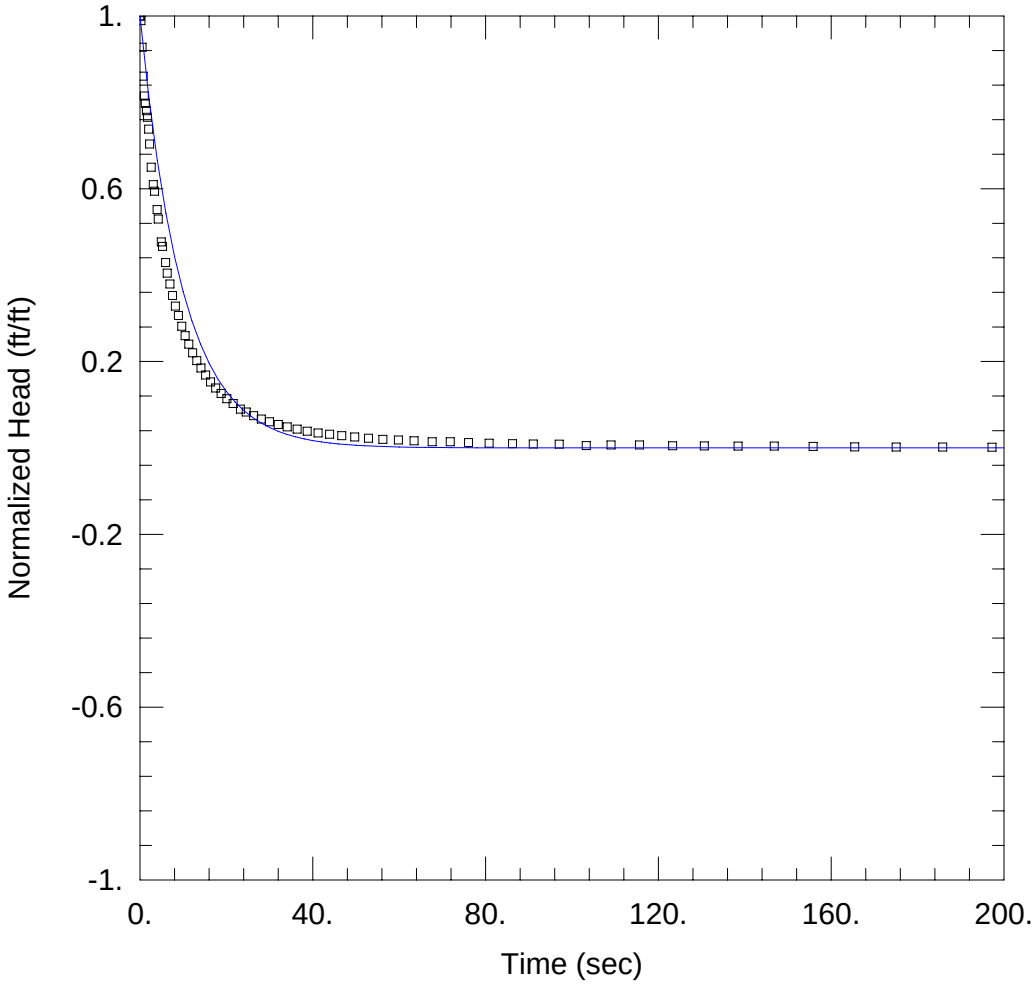
WELL DATA (KAFB106105)

Initial Displacement: 2.375 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 72.02 ft/day
Kz/Kr = 1.0E-5
Ss = 2.703E-5 ft^{-1}
Le = 1. ft



KAFB106105P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106105P1-SG.aqt
Date: 10/06/11 Time: 14:55:55

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106105
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 37. ft
Anisotropy Ratio (Kz/Kr): 1.0E-5

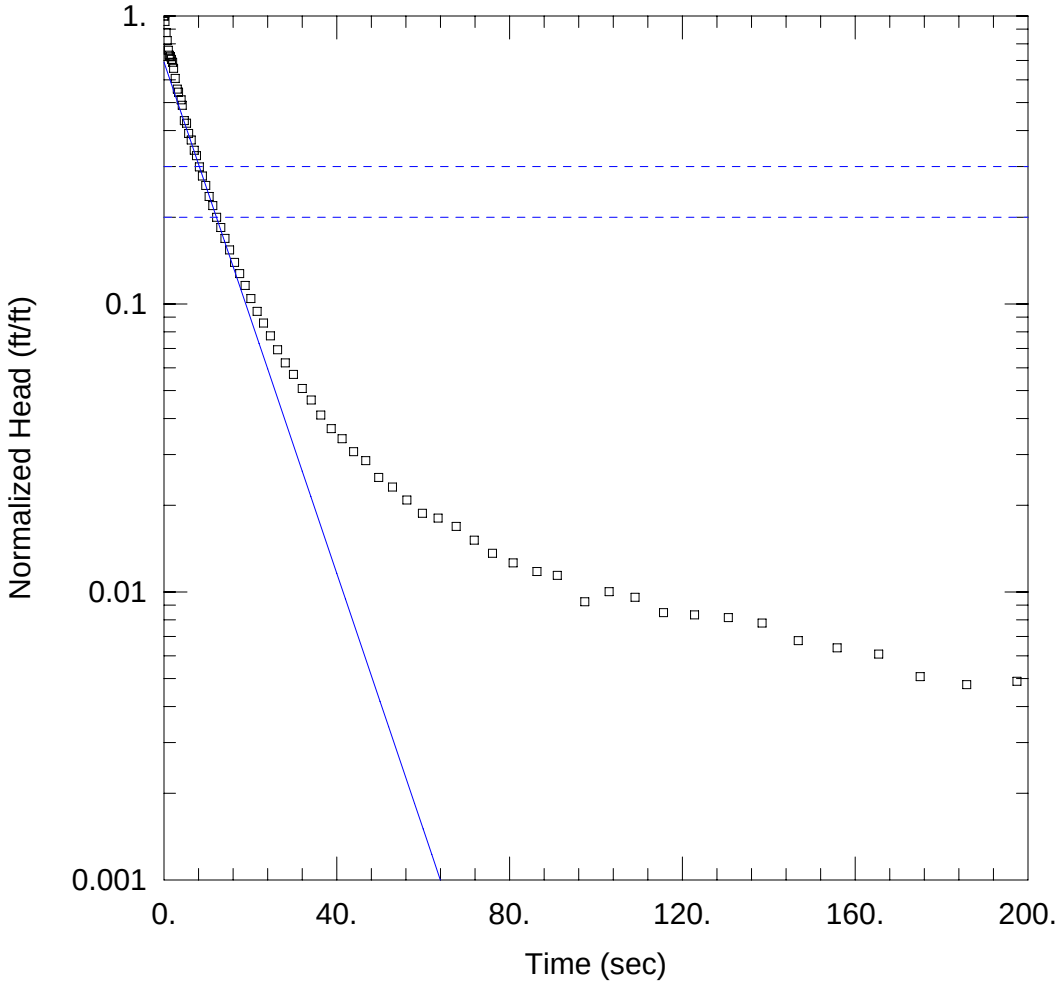
WELL DATA (KAFB106105)

Initial Displacement: 2.375 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 104.1 ft/day
Le = 1. ft



KAFB106105P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106105P2-BR.aqt
Date: 10/06/11 Time: 14:55:24

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106105
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 37. ft
Anisotropy Ratio (Kz/Kr): 1.0E-5

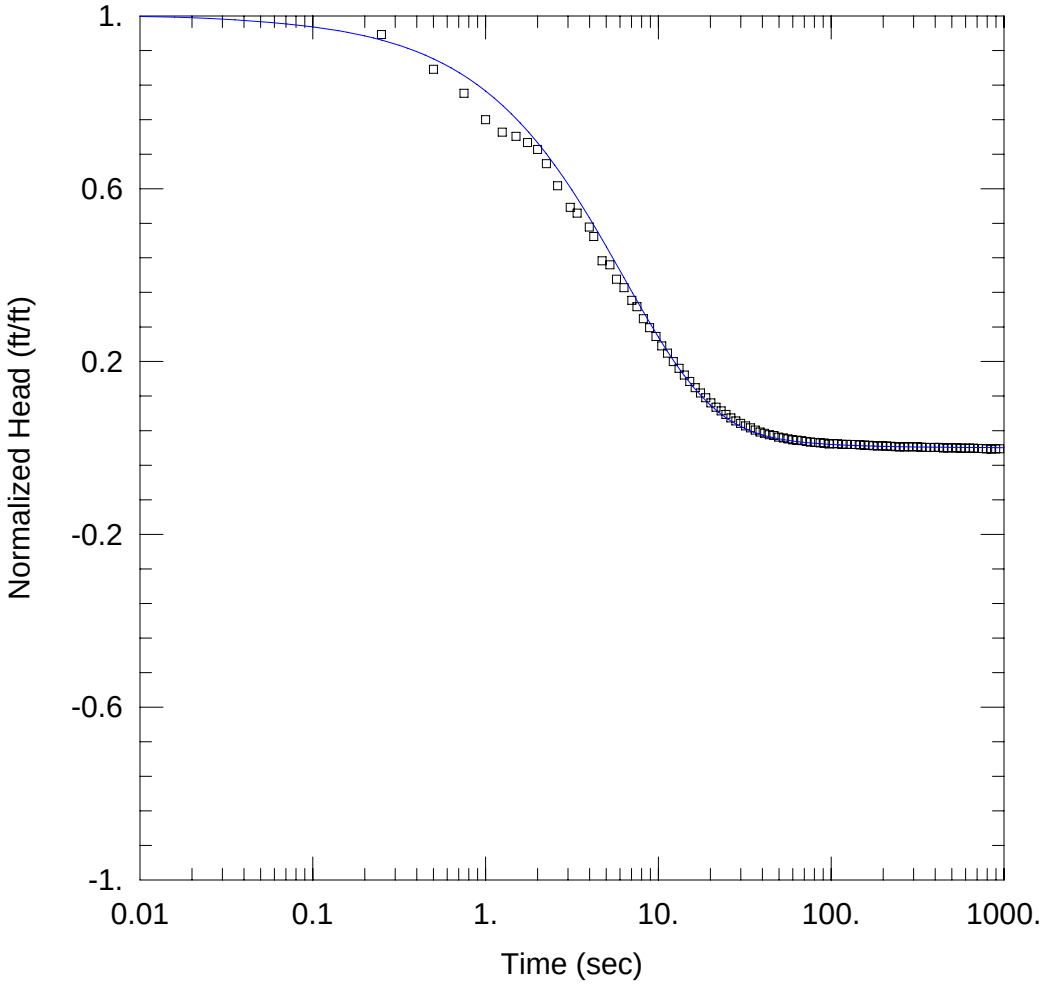
WELL DATA (KAFB106105)

Initial Displacement: 2.296 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 104.5 ft/day
y0 = 1.587 ft



KAFB106105P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106105P2-BZ.aqt
Date: 10/06/11 Time: 14:54:08

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106105
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 37. ft
Anisotropy Ratio (Kz/Kr): 1.0E-5

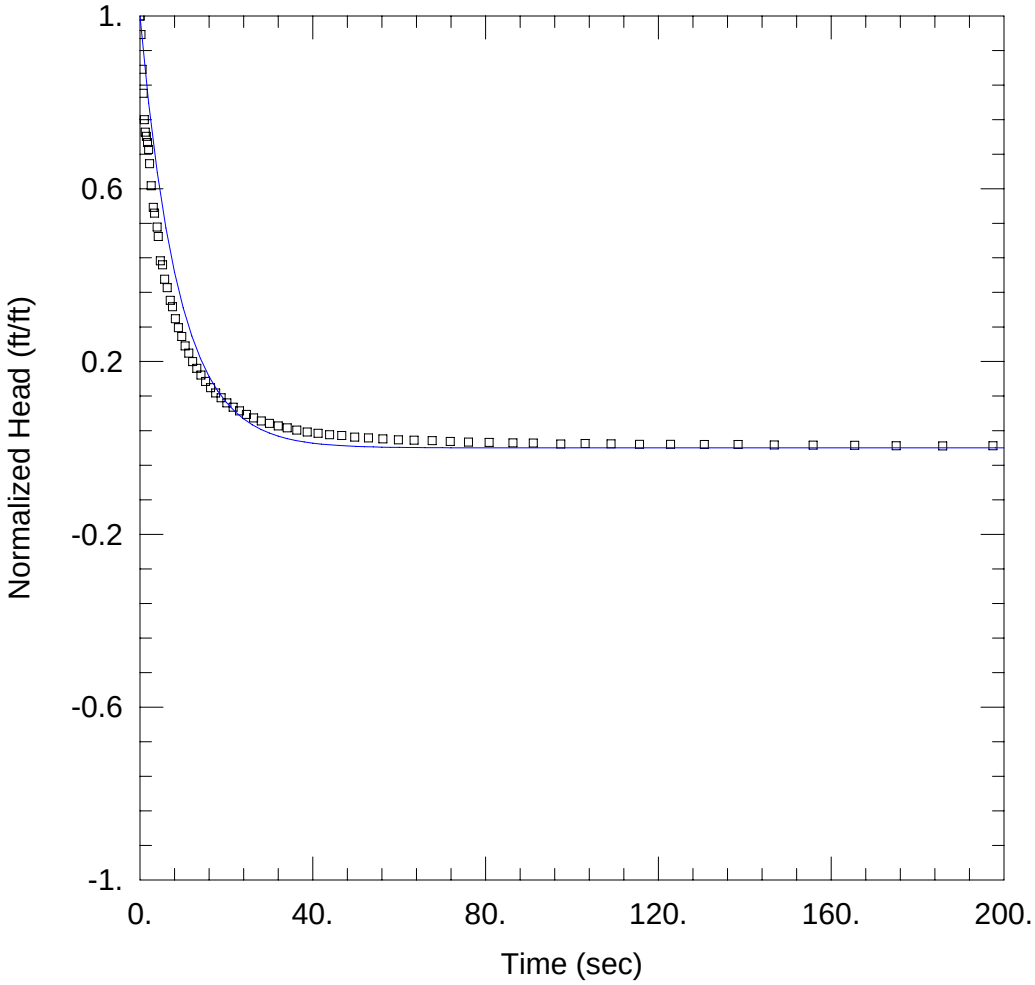
WELL DATA (KAFB106105)

Initial Displacement: 2.296 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 83.43 ft/day
Kz/Kr = 1.0E-5
Ss = 1.064E-5 ft^{-1}
Le = 1. ft



KAFB106105P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106105P2-SG.aqt
Date: 10/06/11 Time: 14:47:00

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106105
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 37. ft
Anisotropy Ratio (Kz/Kr): 1.0E-5

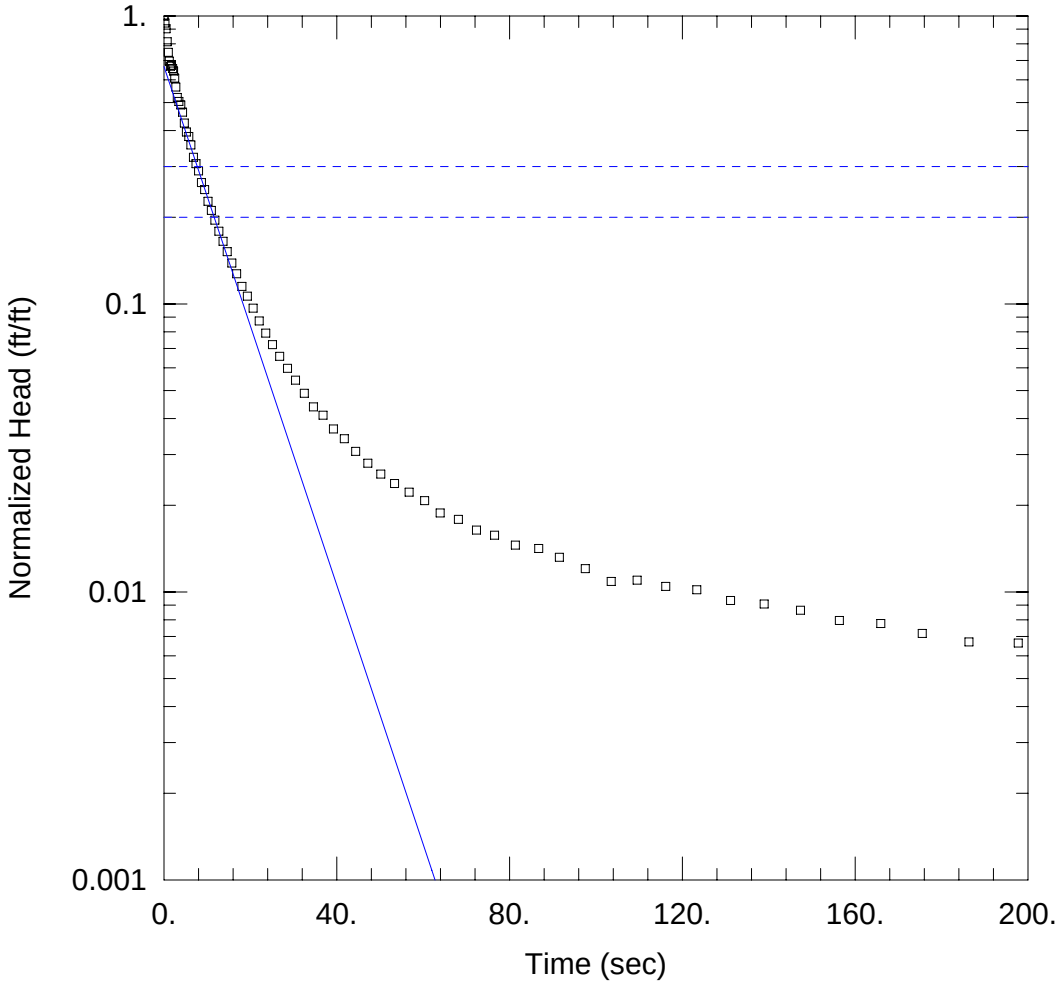
WELL DATA (KAFB106105)

Initial Displacement: 2.296 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 115.2 ft/day
Le = 1. ft



KAFB106105P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106105P3-BR.aqt
Date: 10/06/11 Time: 14:45:42

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106105
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 37. ft
Anisotropy Ratio (Kz/Kr): 0.0001

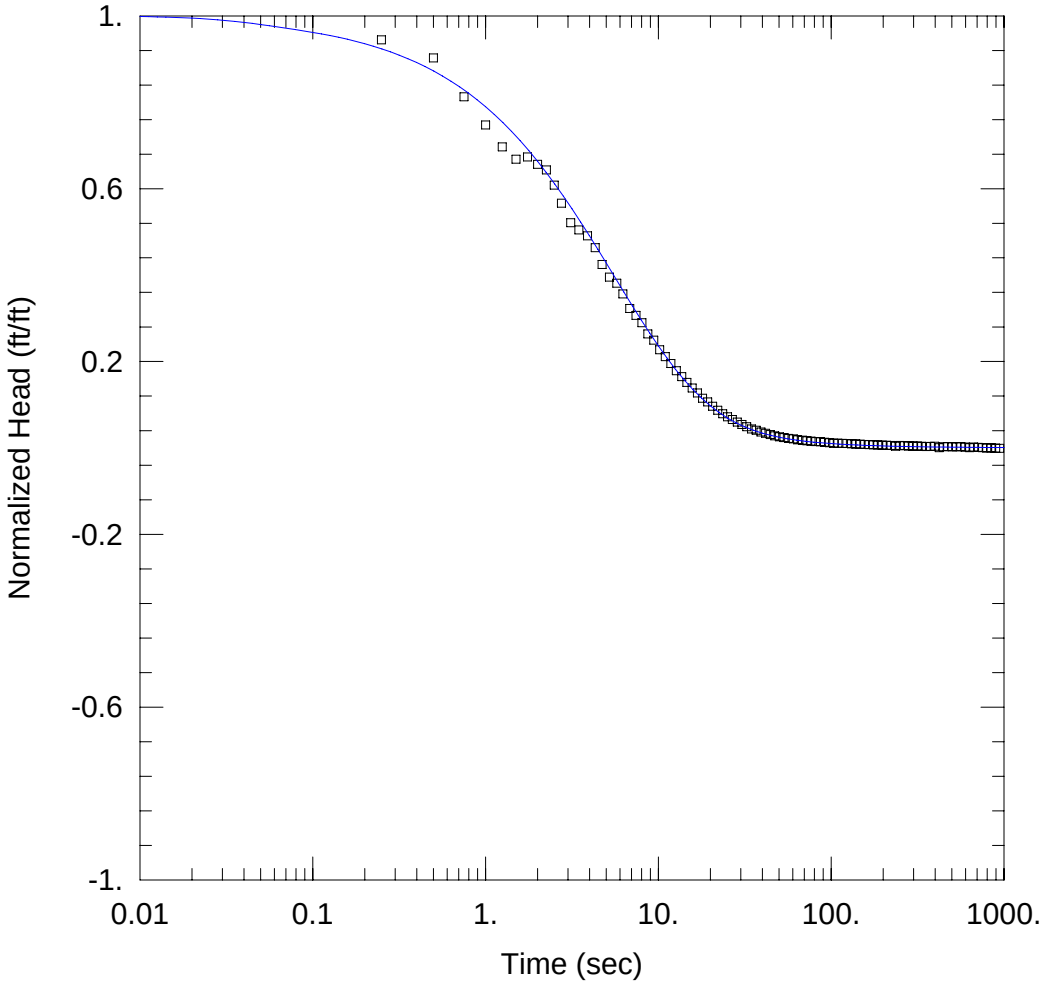
WELL DATA (KAFB106105)

Initial Displacement: 2.112 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 97.26 ft/day
y0 = 1.408 ft



KAFB106105P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106105P3-BZ.aqt
Date: 10/06/11 Time: 14:44:56

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106105
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 37. ft
Anisotropy Ratio (Kz/Kr): 0.0001

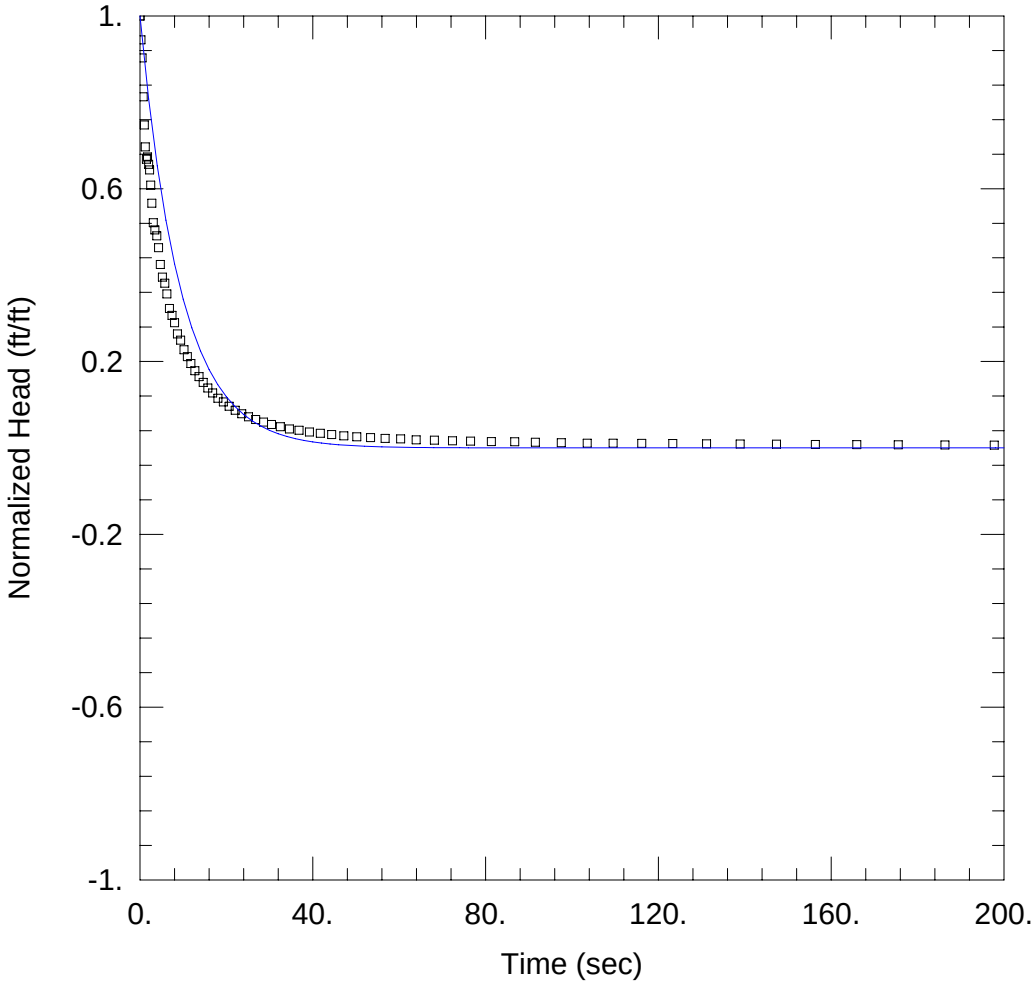
WELL DATA (KAFB106105)

Initial Displacement: 2.112 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 66.18 ft/day
Kz/Kr = 0.0001
Ss = 0.0001573 ft^{-1}
Le = 1. ft



KAFB106105P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106105P3-SG.aqt
Date: 10/06/11 Time: 14:42:13

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106105
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 37. ft
Anisotropy Ratio (Kz/Kr): 1.0E-5

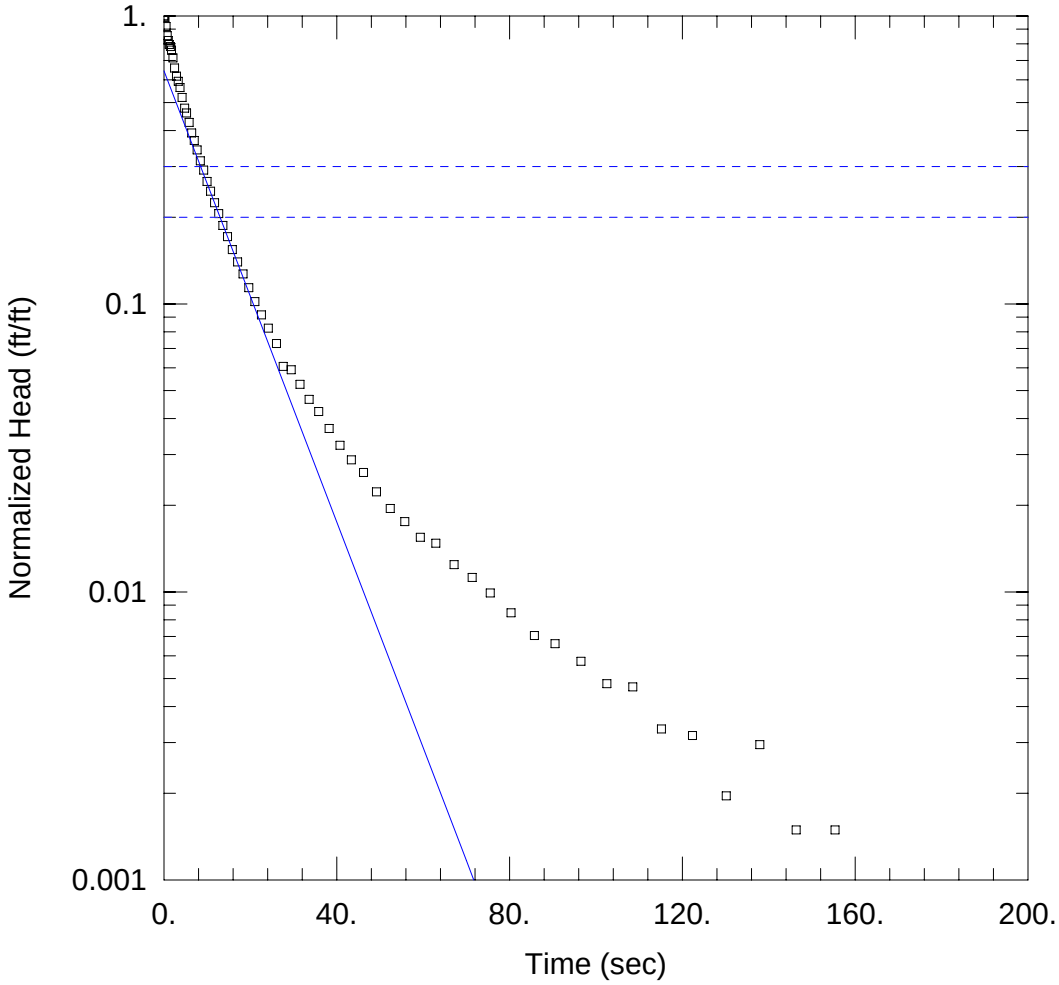
WELL DATA (KAFB106105)

Initial Displacement: 2.112 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 109.1 ft/day
Le = 1. ft



KAFB106105P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106105P4-BR.aqt
Date: 10/06/11 Time: 14:41:04

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106105
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 37. ft
Anisotropy Ratio (Kz/Kr): 0.0001

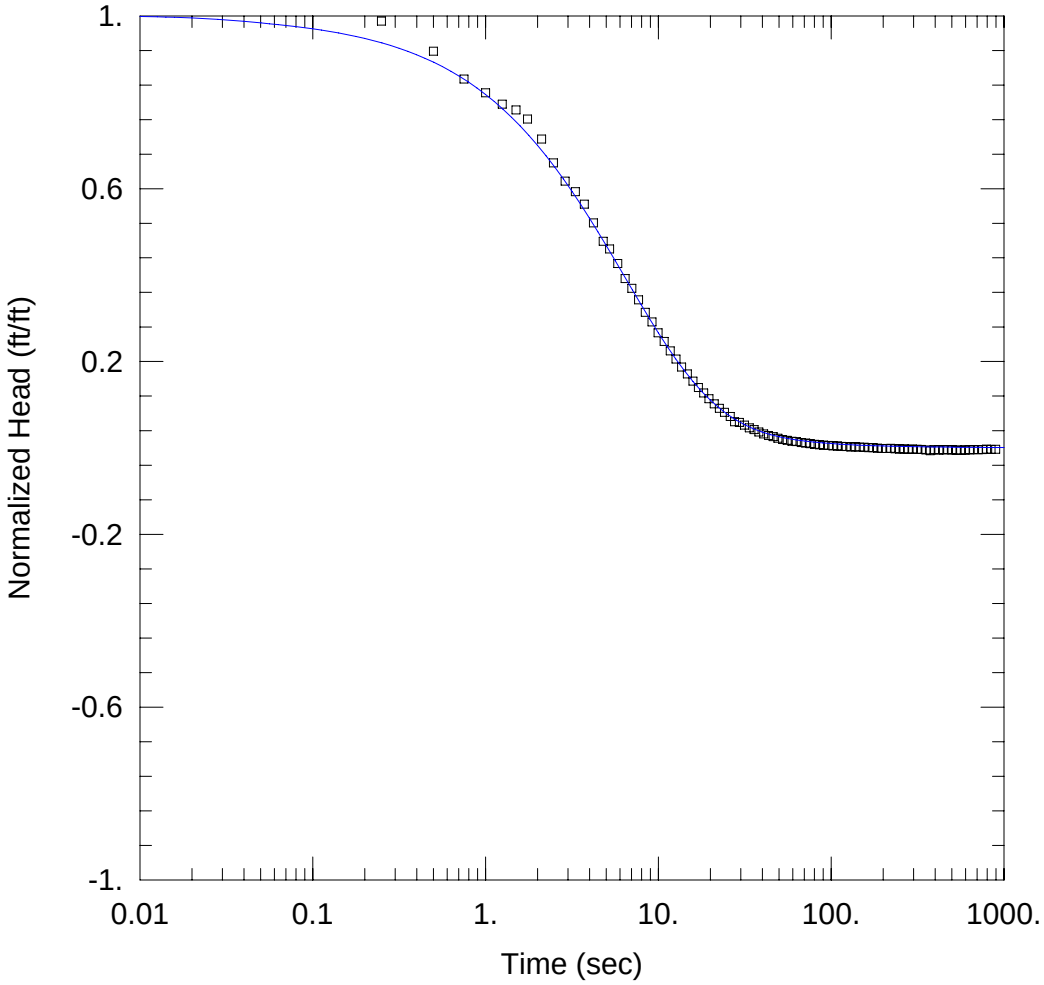
WELL DATA (KAFB106105)

Initial Displacement: 2.391 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 84.65 ft/day
y0 = 1.542 ft



KAFB106105P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106105P4-BZ.aqt
Date: 10/06/11 Time: 14:40:00

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106105
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 37. ft
Anisotropy Ratio (Kz/Kr): 0.0001

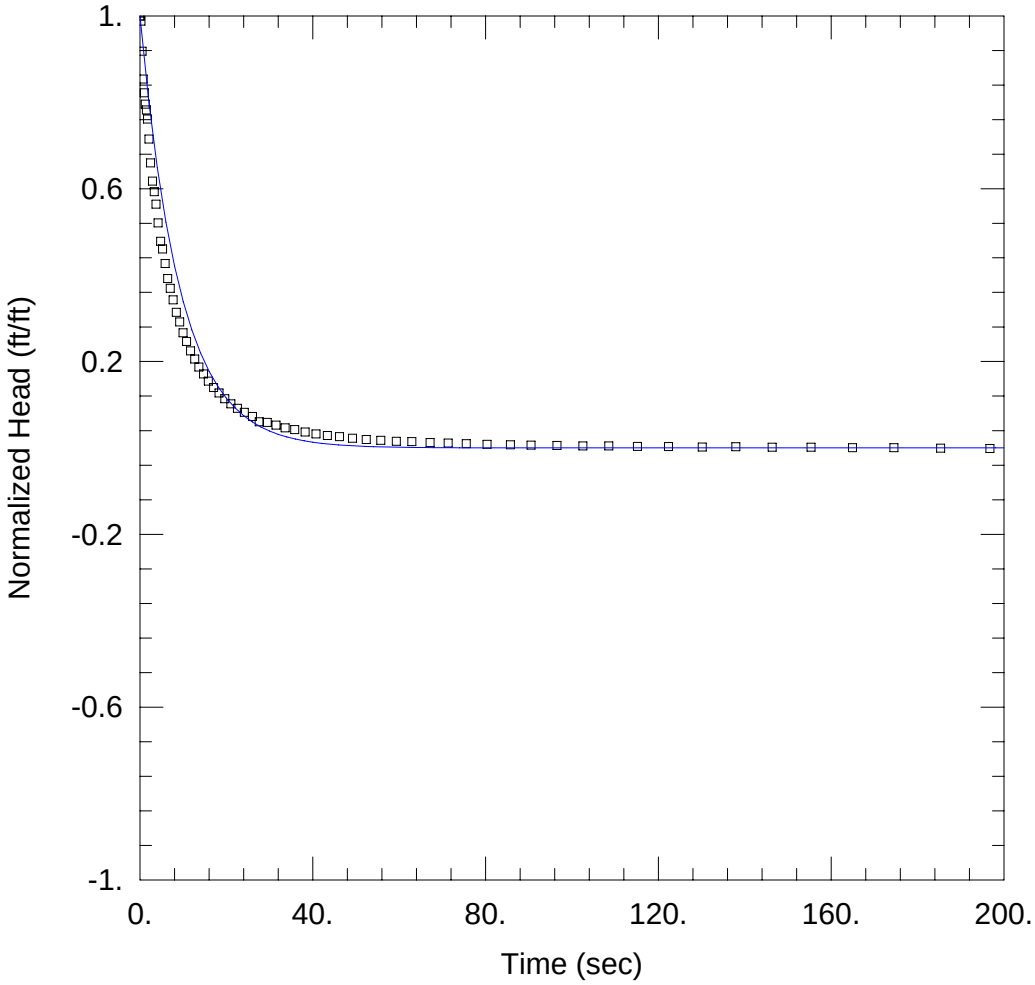
WELL DATA (KAFB106105)

Initial Displacement: 2.391 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 67.24 ft/day
Kz/Kr = 0.0001
Ss = 5.582E-5 ft^{-1}
Le = 1. ft



KAFB106105P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106105P4-SG.aqt
Date: 10/06/11 Time: 14:58:08

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106105
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 37. ft
Anisotropy Ratio (Kz/Kr): 0.0001

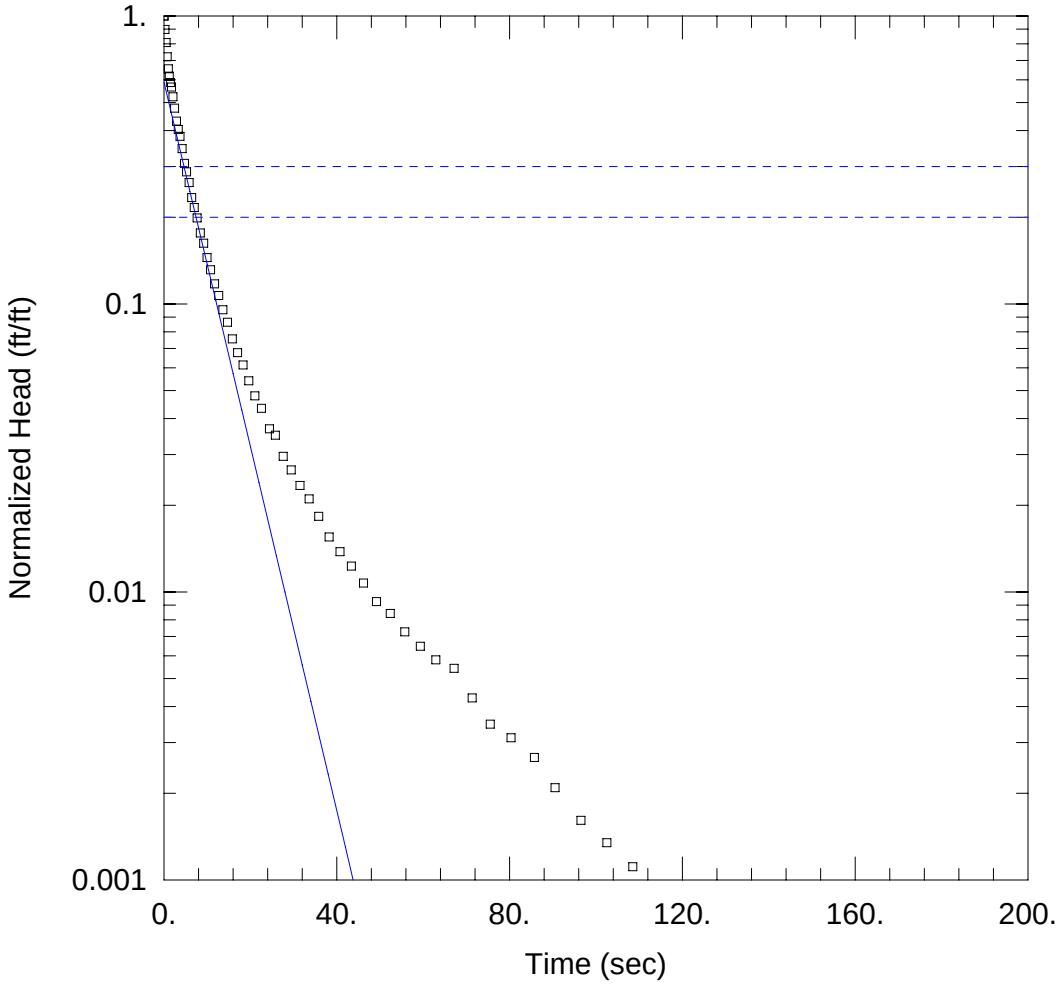
WELL DATA (KAFB106105)

Initial Displacement: 2.391 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 101.5 ft/day
Le = 1. ft



KAFB106107P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106107P1-BR.aqt
Date: 10/06/11 Time: 15:05:55

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106107
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 31. ft
Anisotropy Ratio (Kz/Kr): 0.001

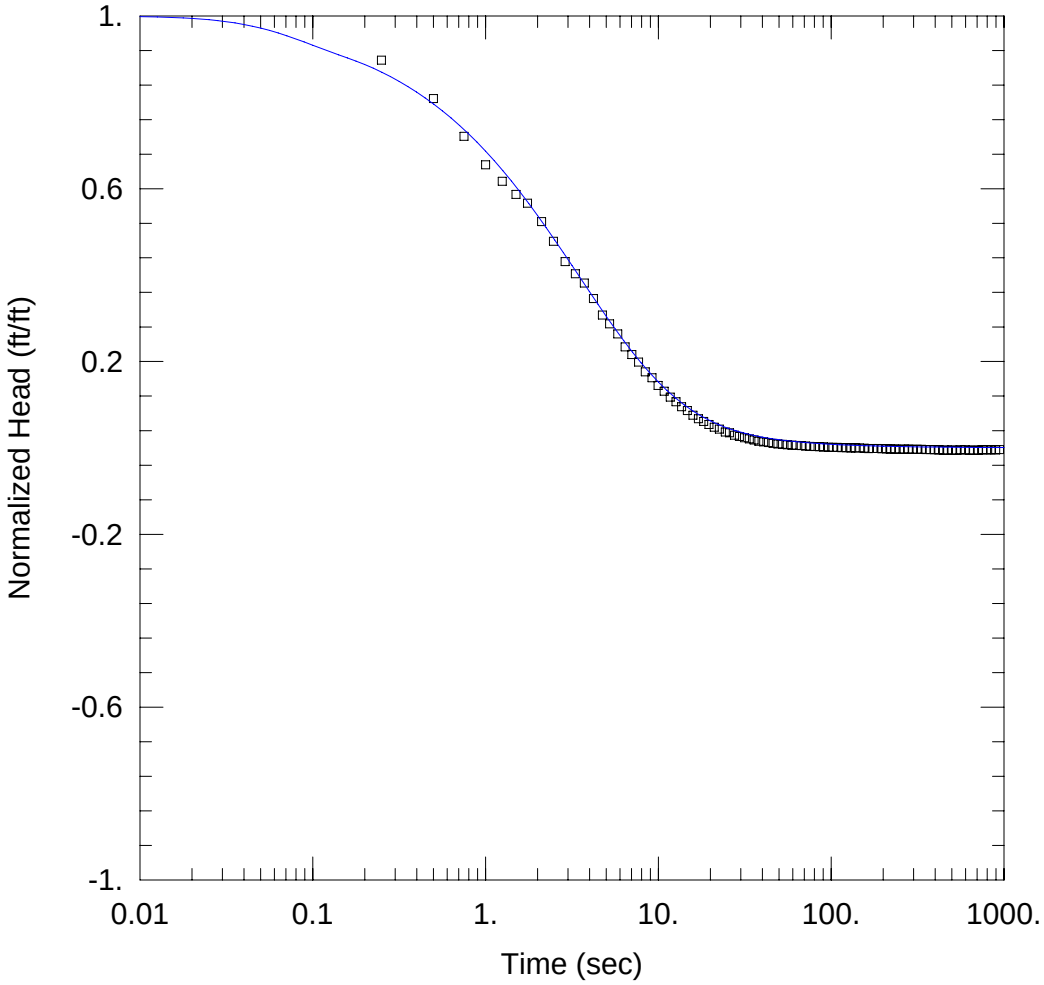
WELL DATA (KAFB106107)

Initial Displacement: 2.477 ft
Total Well Penetration Depth: 56. ft
Casing Radius: 0.198 ft
Static Water Column Height: 61. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 130.1 ft/day
y0 = 1.458 ft



KAFB106107P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106107P1-BZ.aqt
Date: 10/06/11 Time: 15:15:28

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106107
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 31. ft
Anisotropy Ratio (Kz/Kr): 1.0E-6

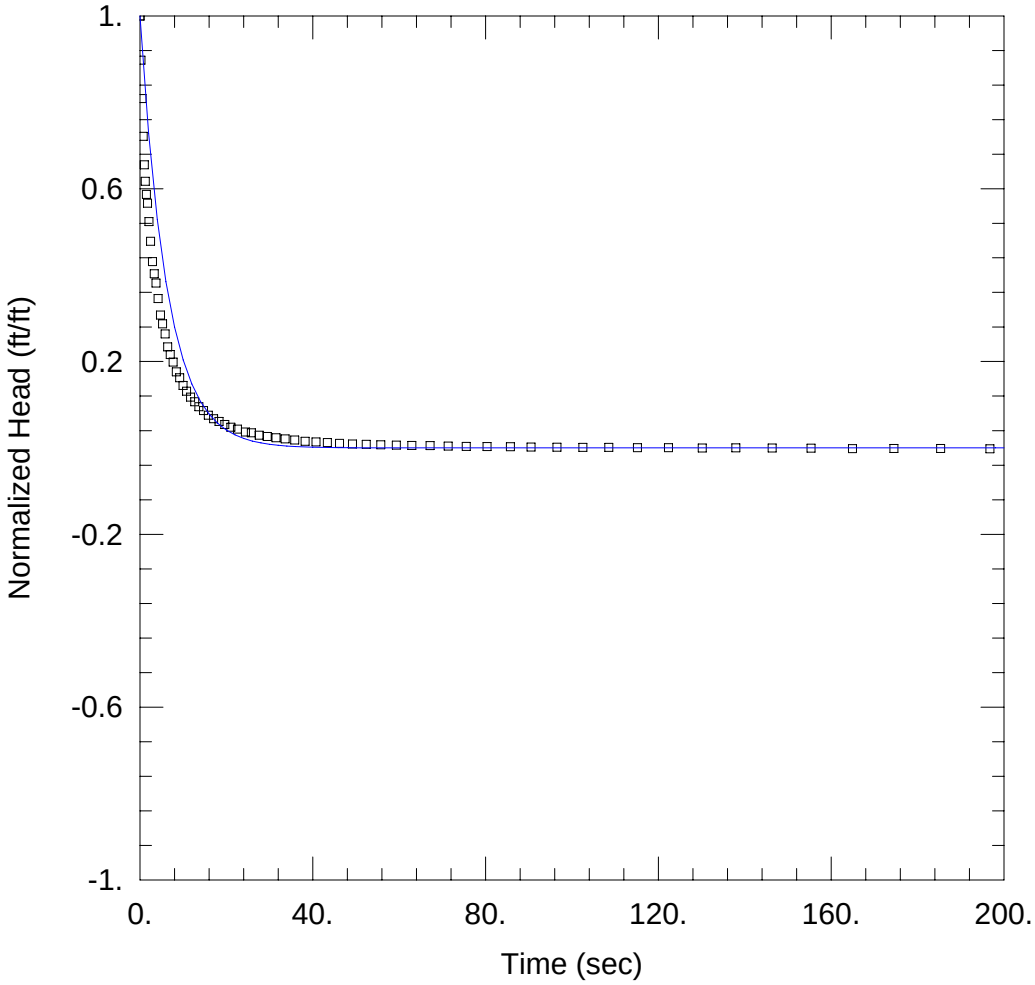
WELL DATA (KAFB106107)

Initial Displacement: 2.477 ft
Total Well Penetration Depth: 56. ft
Casing Radius: 0.198 ft
Static Water Column Height: 61. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 75.61 ft/day
Kz/Kr = 1.0E-6
Ss = 0.0009734 ft^{-1}
Le = 1. ft



KAFB106107P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106107P1-SG.aqt
Date: 10/06/11 Time: 15:04:52

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106107
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 31. ft
Anisotropy Ratio (Kz/Kr): 0.1

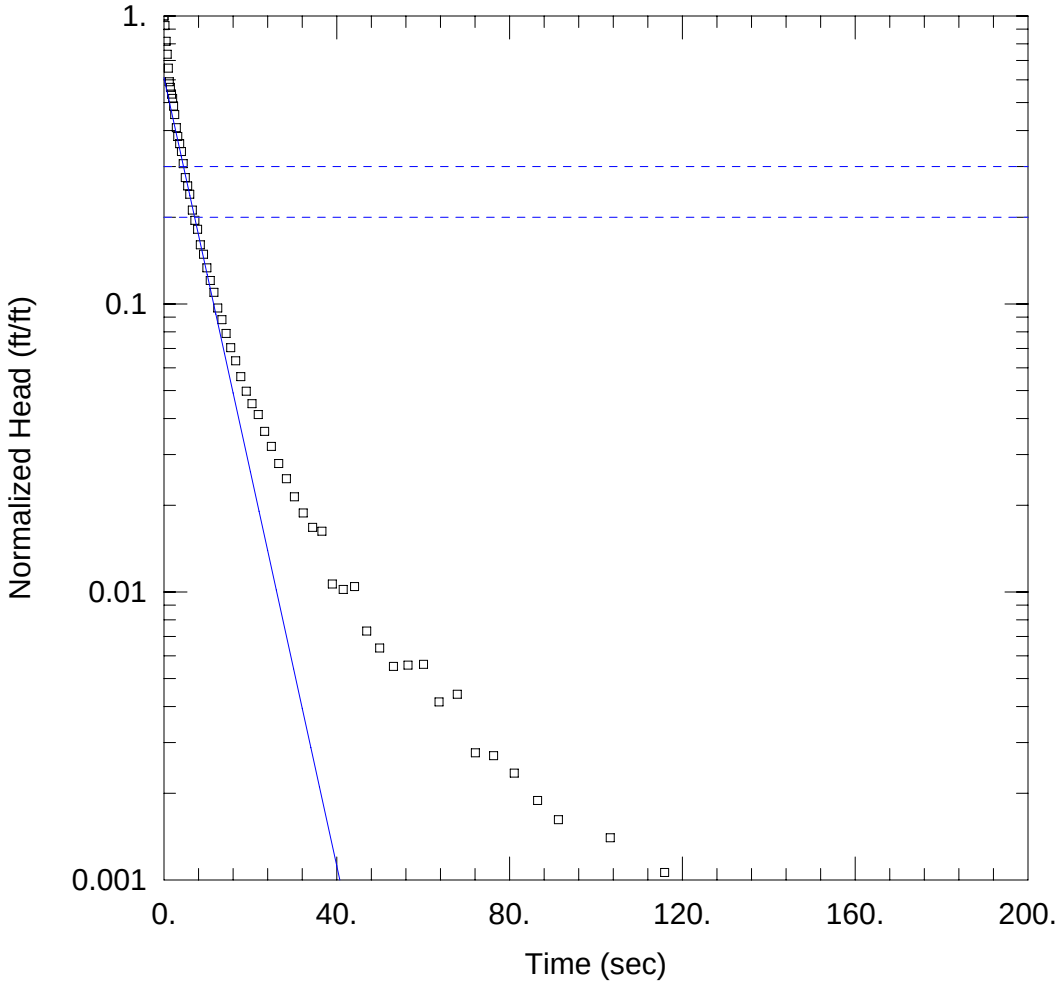
WELL DATA (KAFB106107)

Initial Displacement: 2.477 ft
Total Well Penetration Depth: 56. ft
Casing Radius: 0.198 ft
Static Water Column Height: 61. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 92.81 ft/day
Le = 1. ft



KAFB106107P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106107P2-BR.aqt
Date: 10/06/11 Time: 15:04:30

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106107
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 31. ft
Anisotropy Ratio (Kz/Kr): 0.001

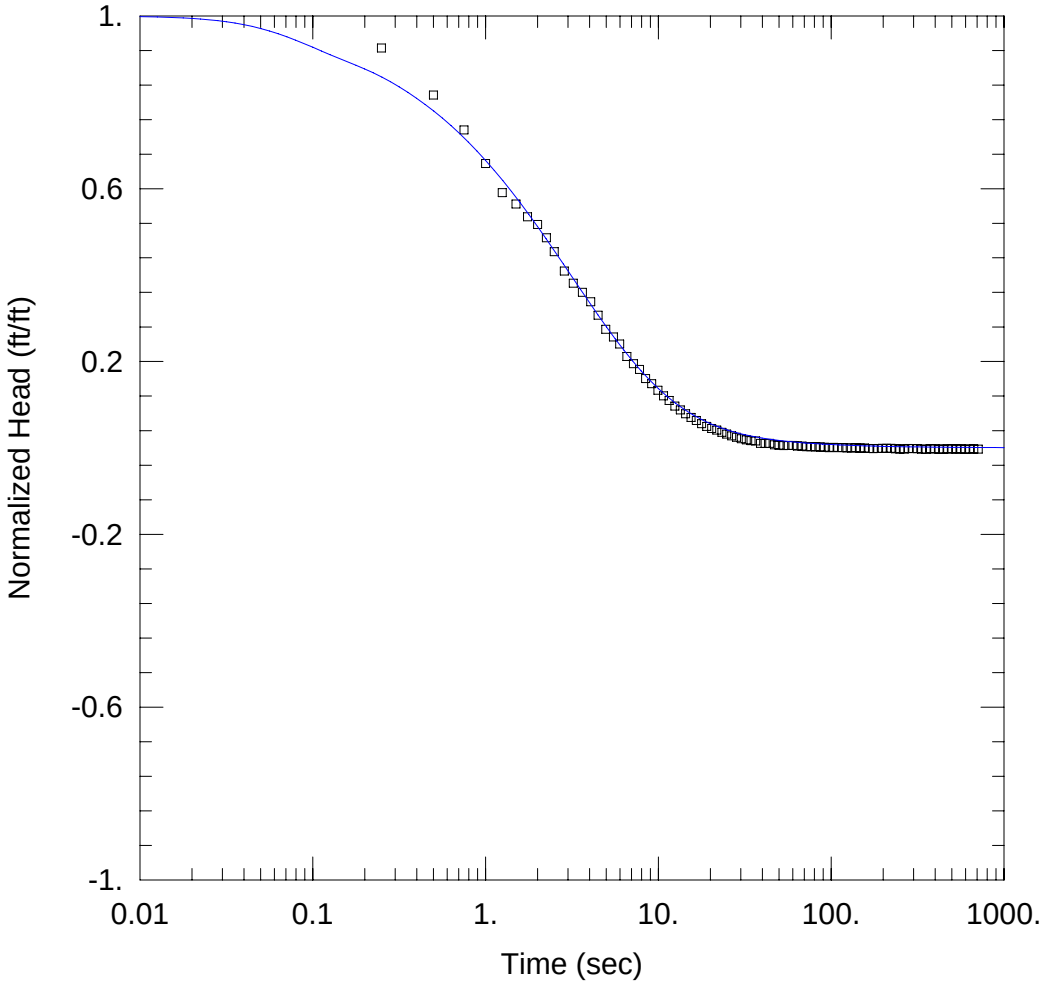
WELL DATA (KAFB106107)

Initial Displacement: 2.432 ft
Total Well Penetration Depth: 56. ft
Casing Radius: 0.198 ft
Static Water Column Height: 61. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 140.8 ft/day
y0 = 1.486 ft



KAFB106107P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106107P2-BZ.aqt
Date: 10/06/11 Time: 15:10:43

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106107
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 31. ft
Anisotropy Ratio (Kz/Kr): 1.0E-6

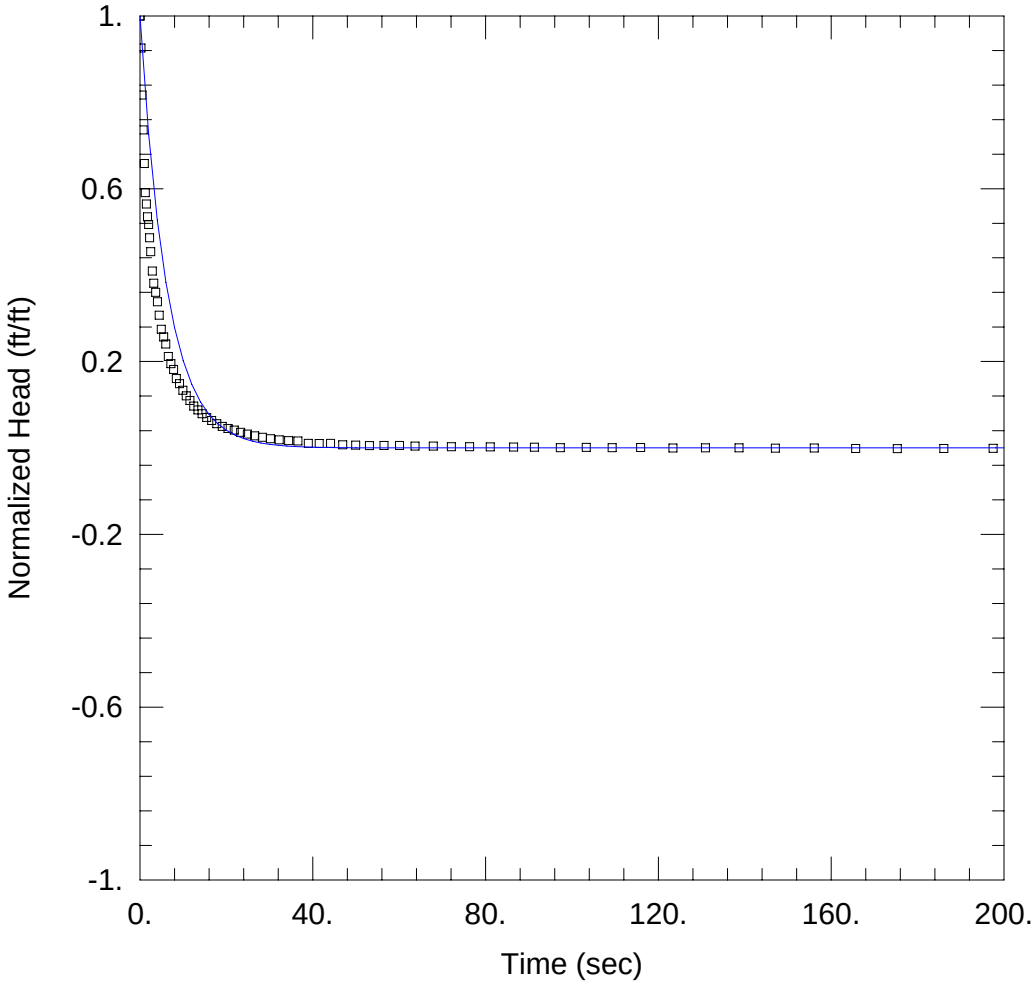
WELL DATA (KAFB106107)

Initial Displacement: 2.432 ft
Total Well Penetration Depth: 56. ft
Casing Radius: 0.198 ft
Static Water Column Height: 61. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 80.89 ft/day
Kz/Kr = 1.0E-6
Ss = 0.001127 ft^{-1}
Le = 1. ft



KAFB106107P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106107P2-SG.aqt
Date: 10/17/11 Time: 08:36:21

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106107
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 31. ft
Anisotropy Ratio (Kz/Kr): 0.1

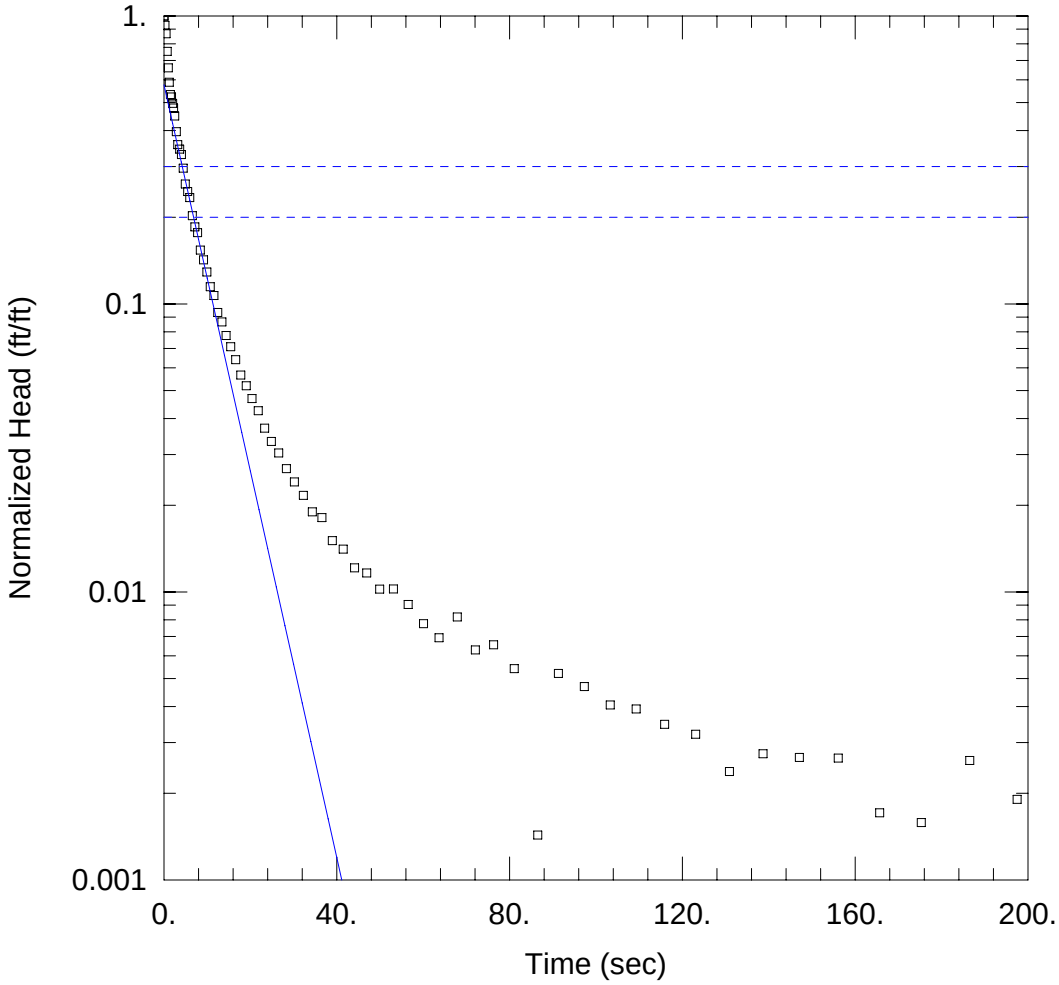
WELL DATA (KAFB106107)

Initial Displacement: 2.432 ft
Total Well Penetration Depth: 56. ft
Casing Radius: 0.198 ft
Static Water Column Height: 61. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 93.18 ft/day
Le = 1. ft



KAFB106107P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106107P3-BR.aqt
Date: 10/06/11 Time: 15:02:46

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106107
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 31. ft
Anisotropy Ratio (Kz/Kr): 0.1

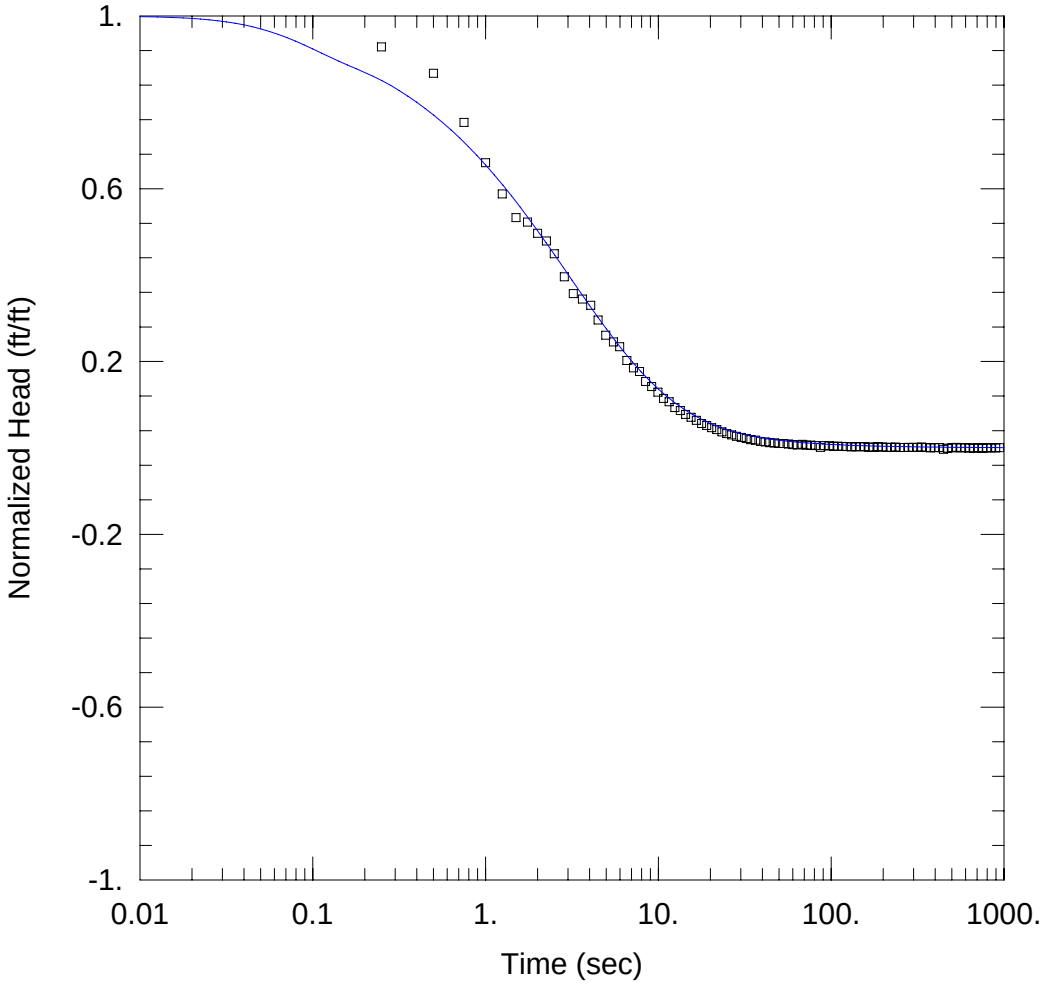
WELL DATA (KAFB106107)

Initial Displacement: 2.3 ft
Total Well Penetration Depth: 56. ft
Casing Radius: 0.198 ft
Static Water Column Height: 61. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 89.96 ft/day
y0 = 1.326 ft



KAFB106107P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106107P3-BZ.aqt
Date: 10/06/11 Time: 15:11:41

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106107
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 31. ft
Anisotropy Ratio (Kz/Kr): 1.0E-6

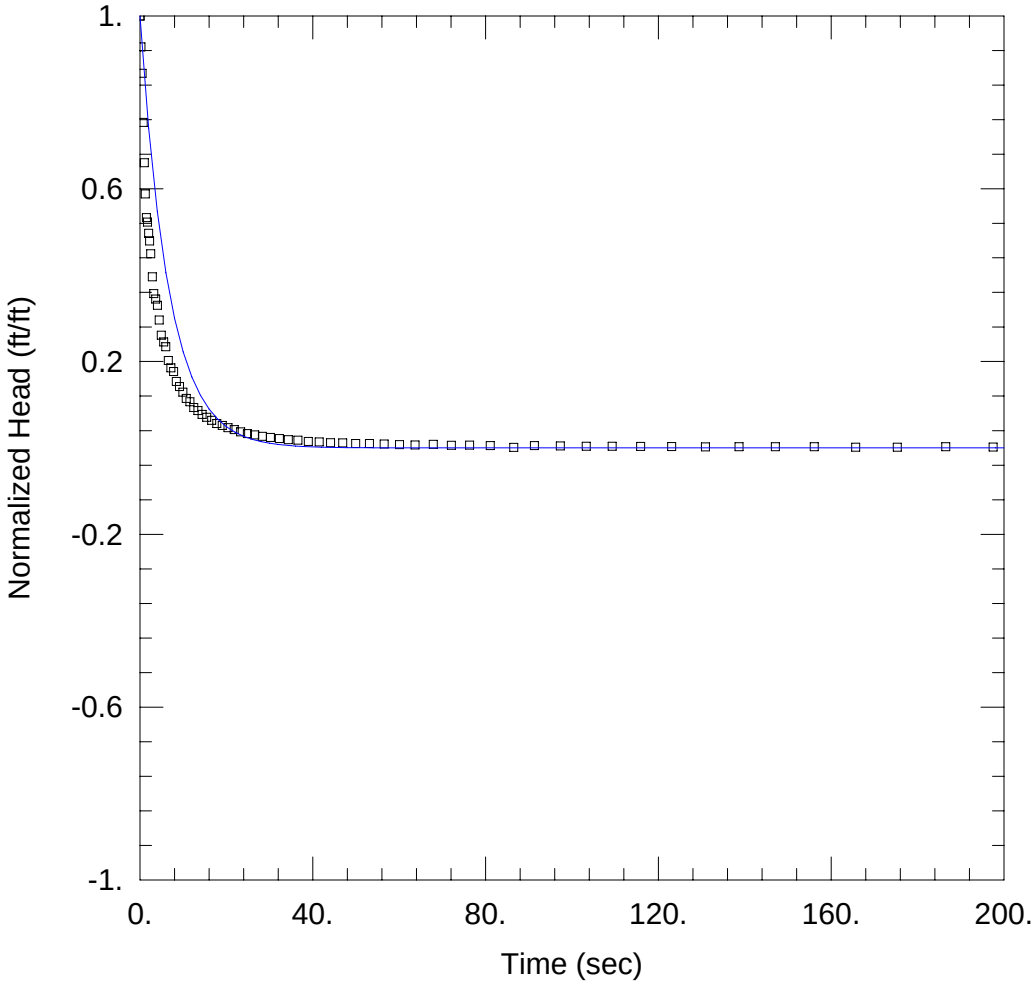
WELL DATA (KAFB106107)

Initial Displacement: 2.3 ft
Total Well Penetration Depth: 56. ft
Casing Radius: 0.198 ft
Static Water Column Height: 61. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 78.2 ft/day
Kz/Kr = 1.0E-6
Ss = 0.001473 ft^{-1}
Le = 1. ft



KAFB106107P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106107P3-SG.aqt
Date: 10/06/11 Time: 15:01:49

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106107
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 31. ft
Anisotropy Ratio (Kz/Kr): 0.1

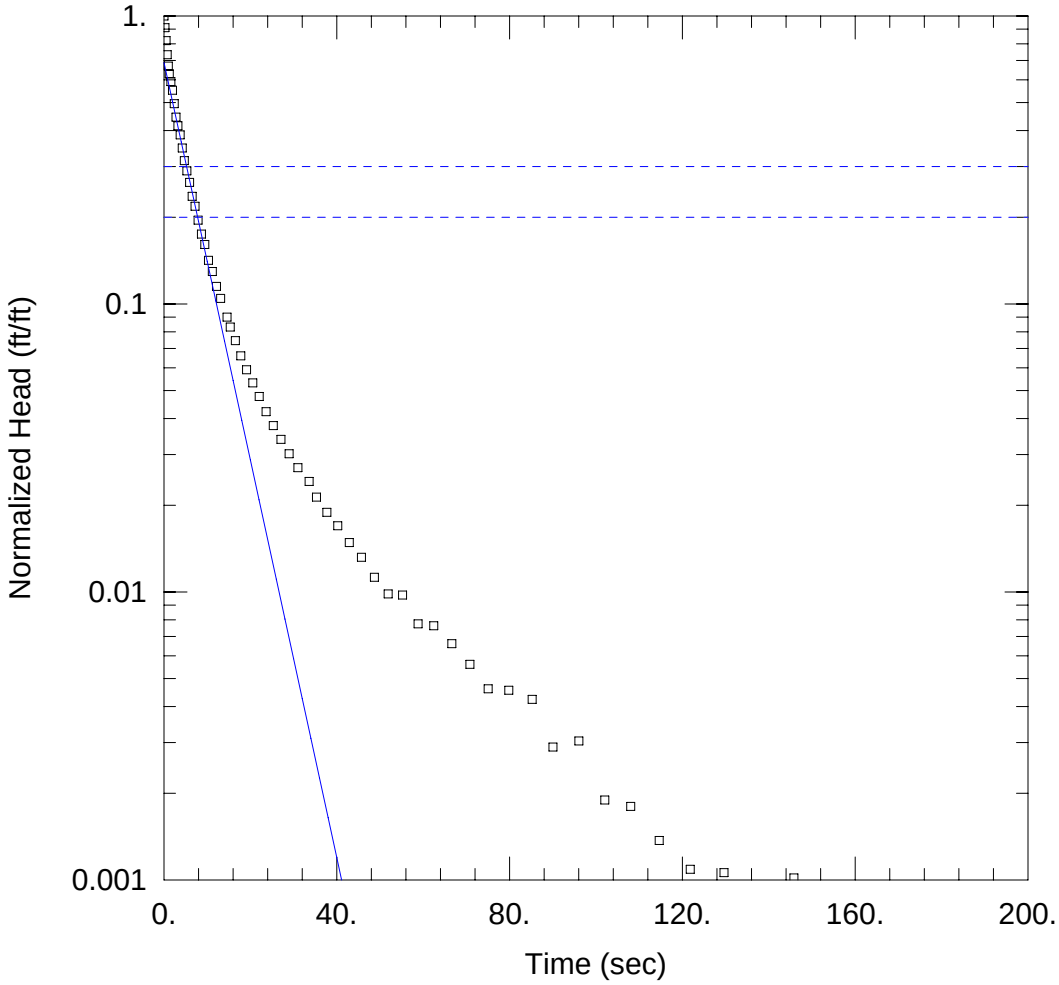
WELL DATA (KAFB106107)

Initial Displacement: 2.3 ft
Total Well Penetration Depth: 56. ft
Casing Radius: 0.198 ft
Static Water Column Height: 61. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 87.73 ft/day
Le = 1. ft



KAFB106107P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106107P4-BR.aqt
Date: 10/06/11 Time: 16:54:31

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106107
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 31. ft
Anisotropy Ratio (Kz/Kr): 0.1

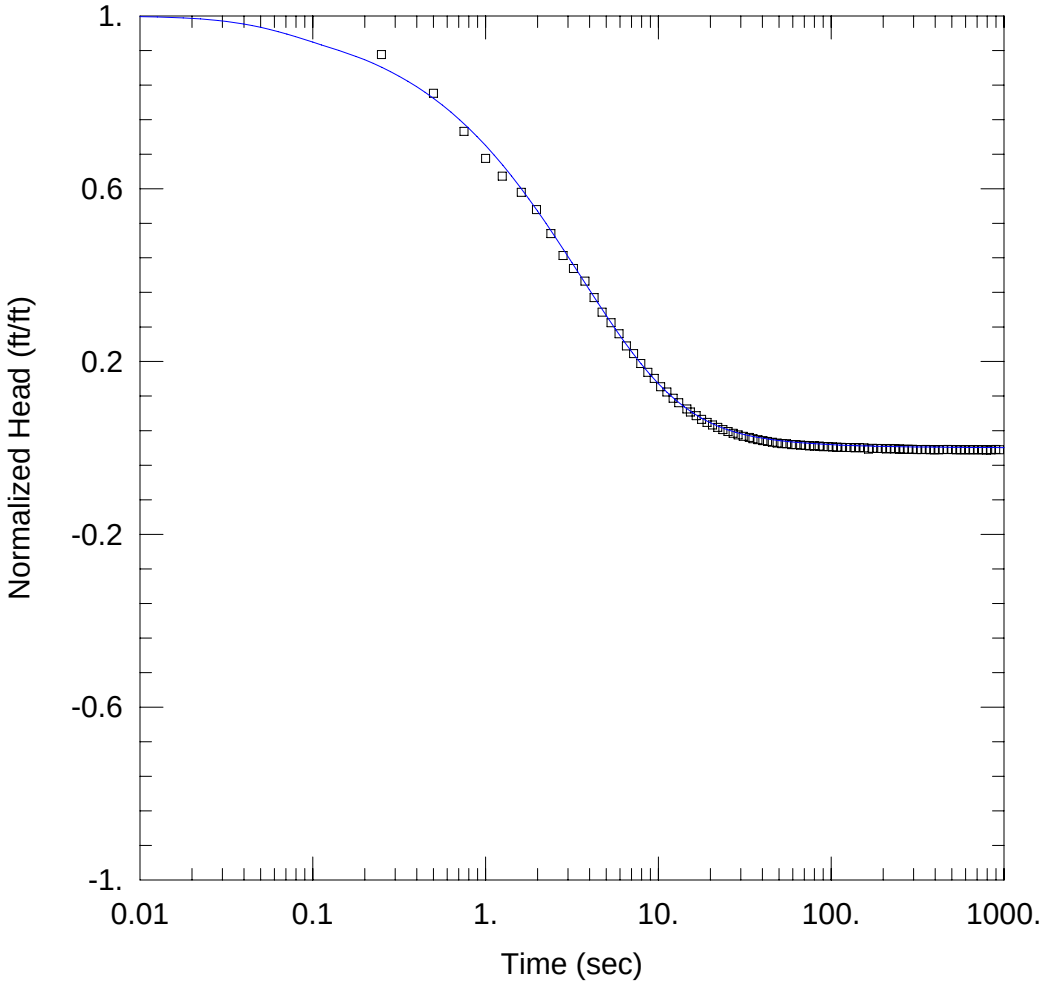
WELL DATA (KAFB106107)

Initial Displacement: 2.485 ft
Total Well Penetration Depth: 56. ft
Casing Radius: 0.198 ft
Static Water Column Height: 61. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 92.56 ft/day
y0 = 1.712 ft



KAFB106107P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106107P4-BZ.aqt
Date: 10/06/11 Time: 15:17:56

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106107
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 31. ft
Anisotropy Ratio (Kz/Kr): 1.0E-7

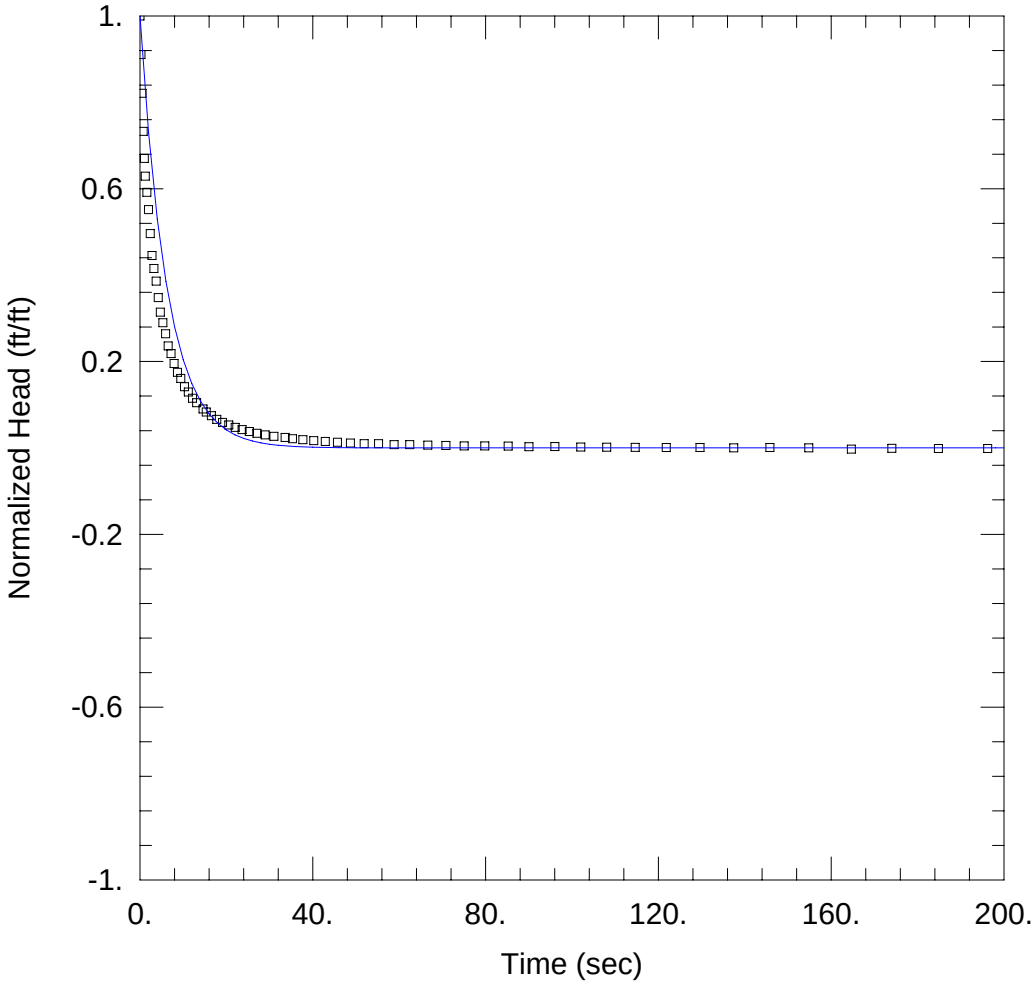
WELL DATA (KAFB106107)

Initial Displacement: 2.485 ft
Total Well Penetration Depth: 56. ft
Casing Radius: 0.198 ft
Static Water Column Height: 61. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 84.42 ft/day
Kz/Kr = 1.0E-7
Ss = 0.0005227 ft^{-1}
Le = 1. ft



KAFB106107P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\KAFB106107P4-SG.aqt
Date: 10/06/11 Time: 15:06:15

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106107
Test Date: 9/22/11

AQUIFER DATA

Saturated Thickness: 31. ft
Anisotropy Ratio (Kz/Kr): 0.1

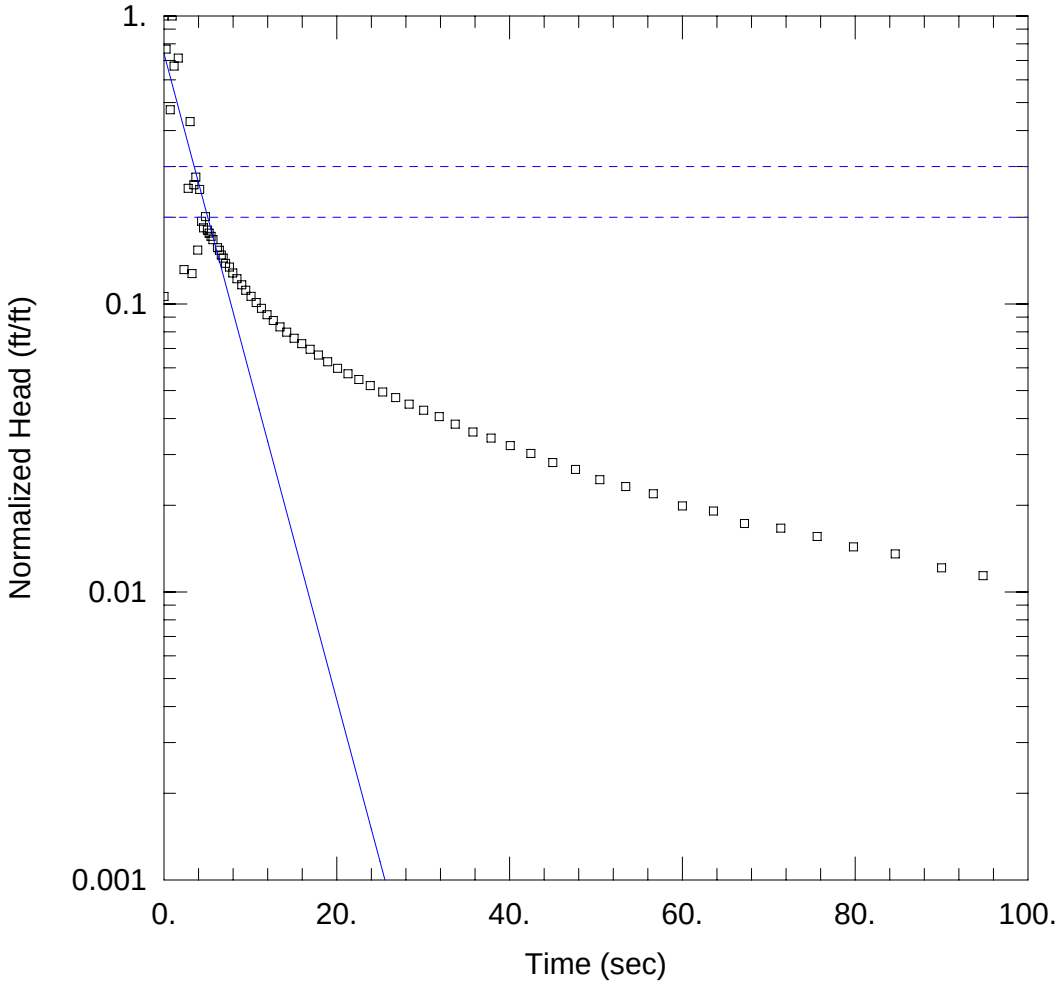
WELL DATA (KAFB106107)

Initial Displacement: 2.485 ft
Total Well Penetration Depth: 56. ft
Casing Radius: 0.198 ft
Static Water Column Height: 61. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 92.56 ft/day
Le = 1. ft



QC_KAFB106032IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106032IN-BR.aqt
Date: 10/06/11 Time: 13:22:00

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106032
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 30. ft
Anisotropy Ratio (Kz/Kr): 0.1

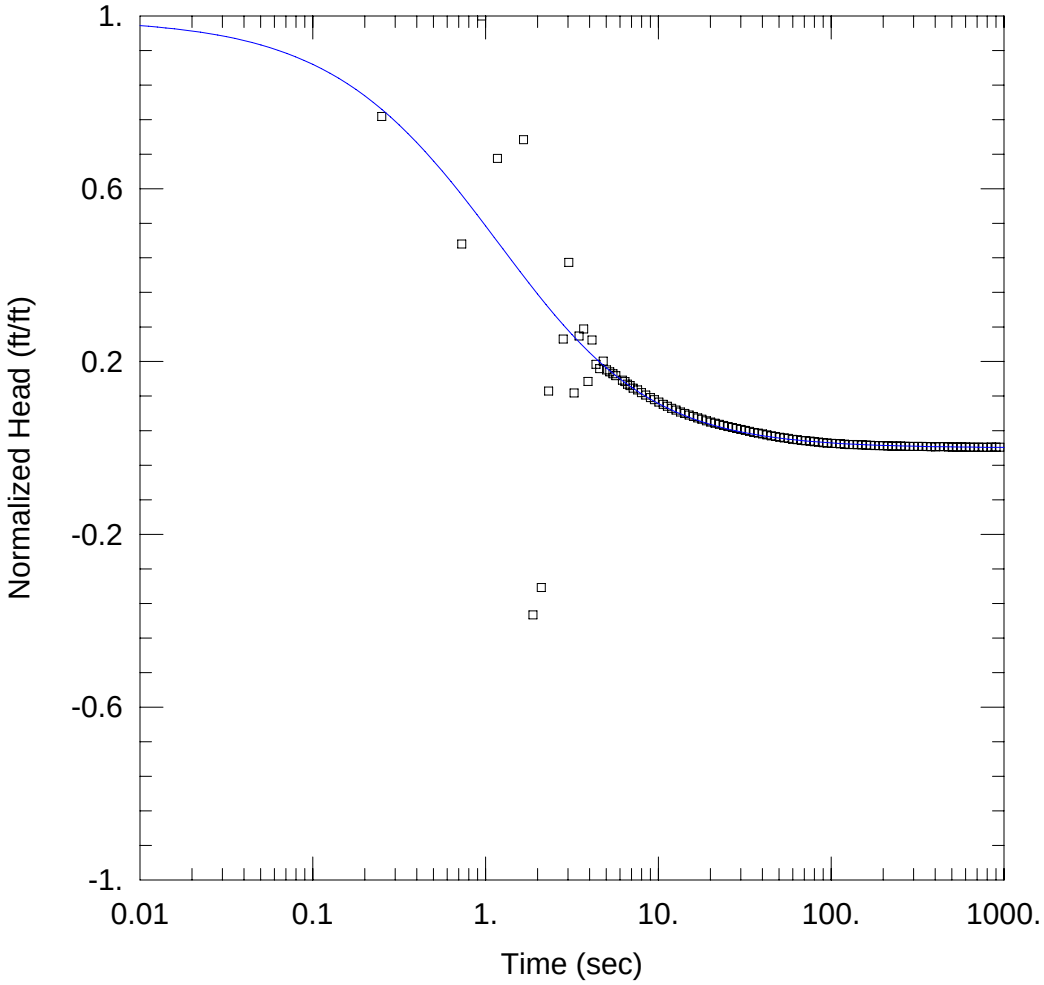
WELL DATA (KAFB106032)

Initial Displacement: 6.056 ft
Total Well Penetration Depth: 12. ft
Casing Radius: 0.198 ft
Static Water Column Height: 17. ft
Screen Length: 12. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 133.2 ft/day
y0 = 4.479 ft



QC_KAFB106032IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106032IN-KGS.aqt
Date: 10/06/11 Time: 13:21:18

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106032
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 30. ft

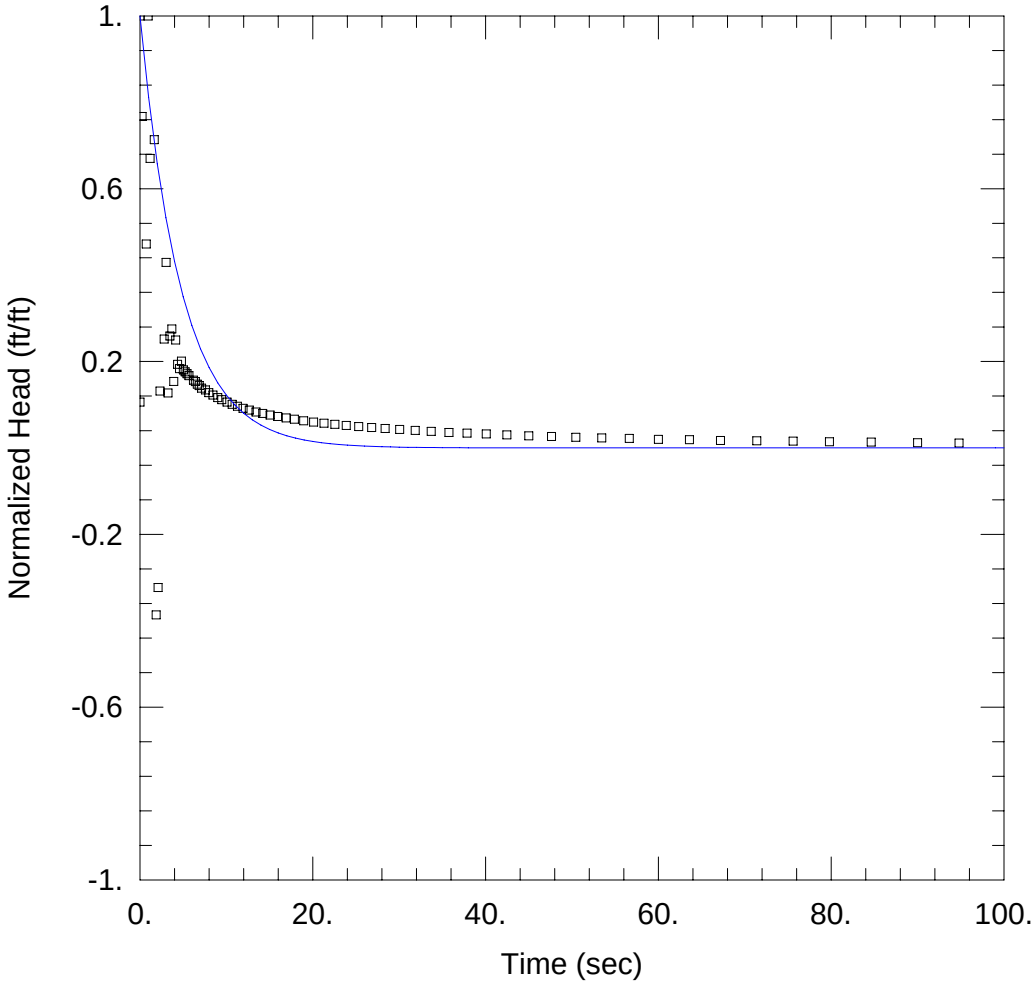
WELL DATA (KAFB106032)

Initial Displacement: 6.056 ft
Total Well Penetration Depth: 12. ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 17. ft
Screen Length: 12. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 57.01 ft/day
Kz/Kr = 0.0001
Ss' = 0.001 ft^{-1}
Ss = 0.02308 ft^{-1}
Kr' = 146.6 ft/day
Kz/Kr' = 1.



QC_KAFB106032IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106032IN-SG.aqt
Date: 10/06/11 Time: 13:20:13

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106032
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 30. ft
Anisotropy Ratio (Kz/Kr): 0.1

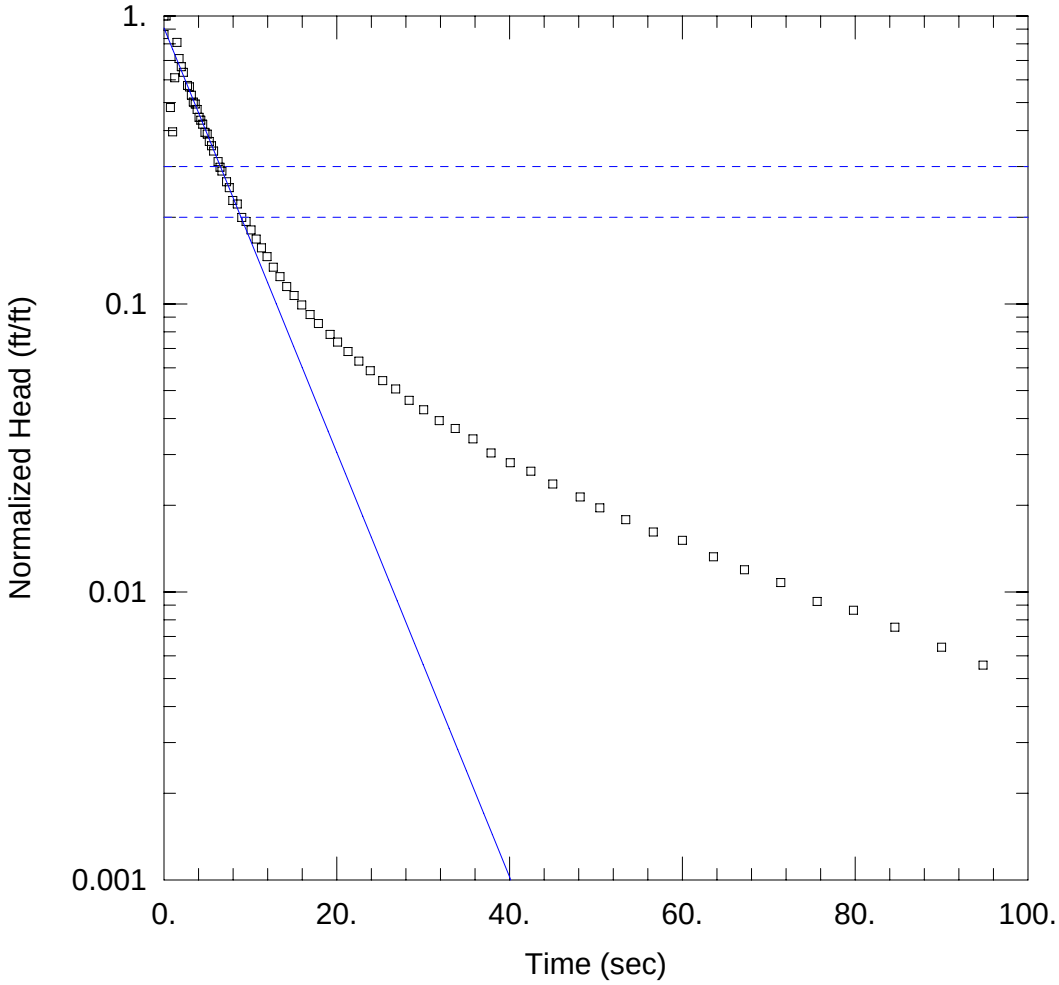
WELL DATA (KAFB106032)

Initial Displacement: 6.056 ft
Total Well Penetration Depth: 12. ft
Casing Radius: 0.198 ft
Static Water Column Height: 17. ft
Screen Length: 12. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 108.4 ft/day
Le = 1. ft



QC_KAFB106032OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106032OUT-BR.aqt
Date: 10/06/11 Time: 13:19:28

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106032
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 30. ft
Anisotropy Ratio (Kz/Kr): 0.1

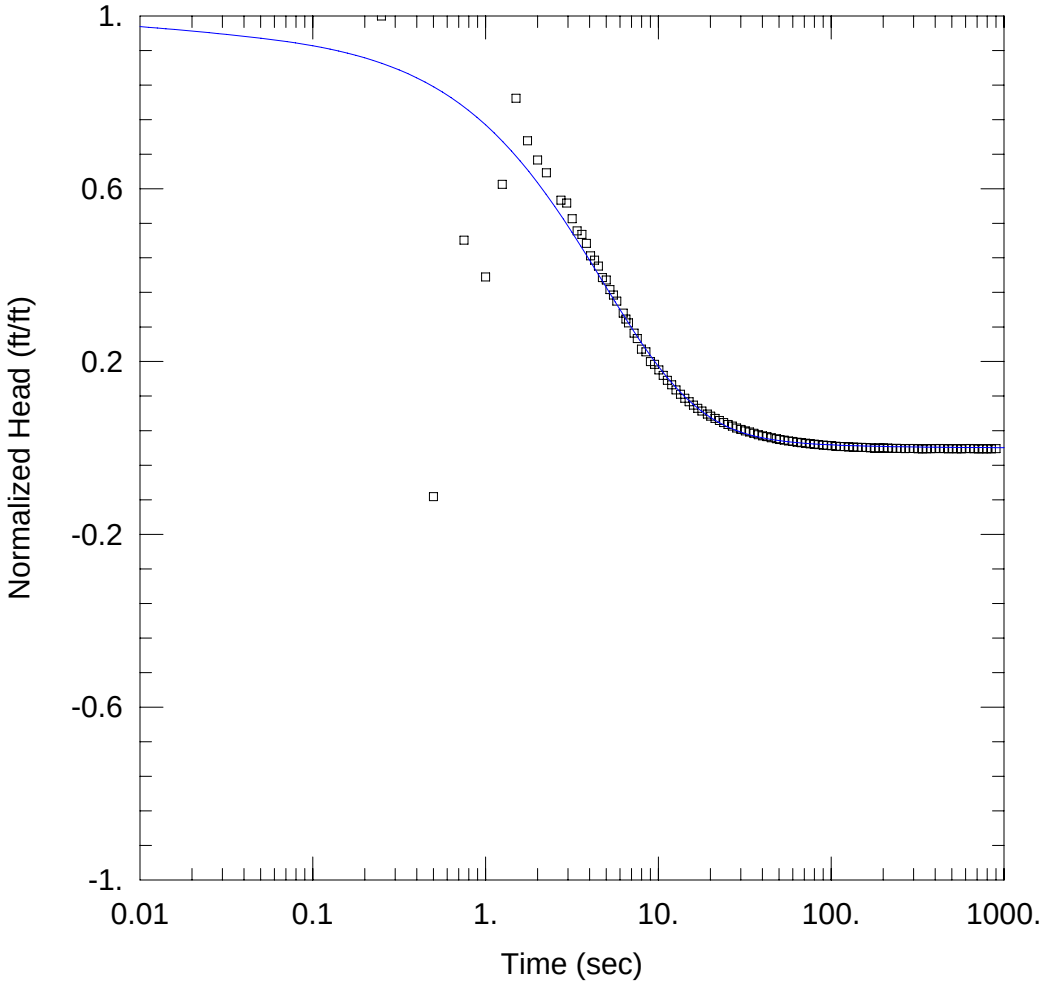
WELL DATA (KAFB106032)

Initial Displacement: 5.493 ft
Total Well Penetration Depth: 12. ft
Casing Radius: 0.198 ft
Static Water Column Height: 17. ft
Screen Length: 12. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 87.49 ft/day
y0 = 4.988 ft



QC_KAFB106032OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106032OUT-KGS.aqt
Date: 10/06/11 Time: 13:18:10

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106032
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 30. ft

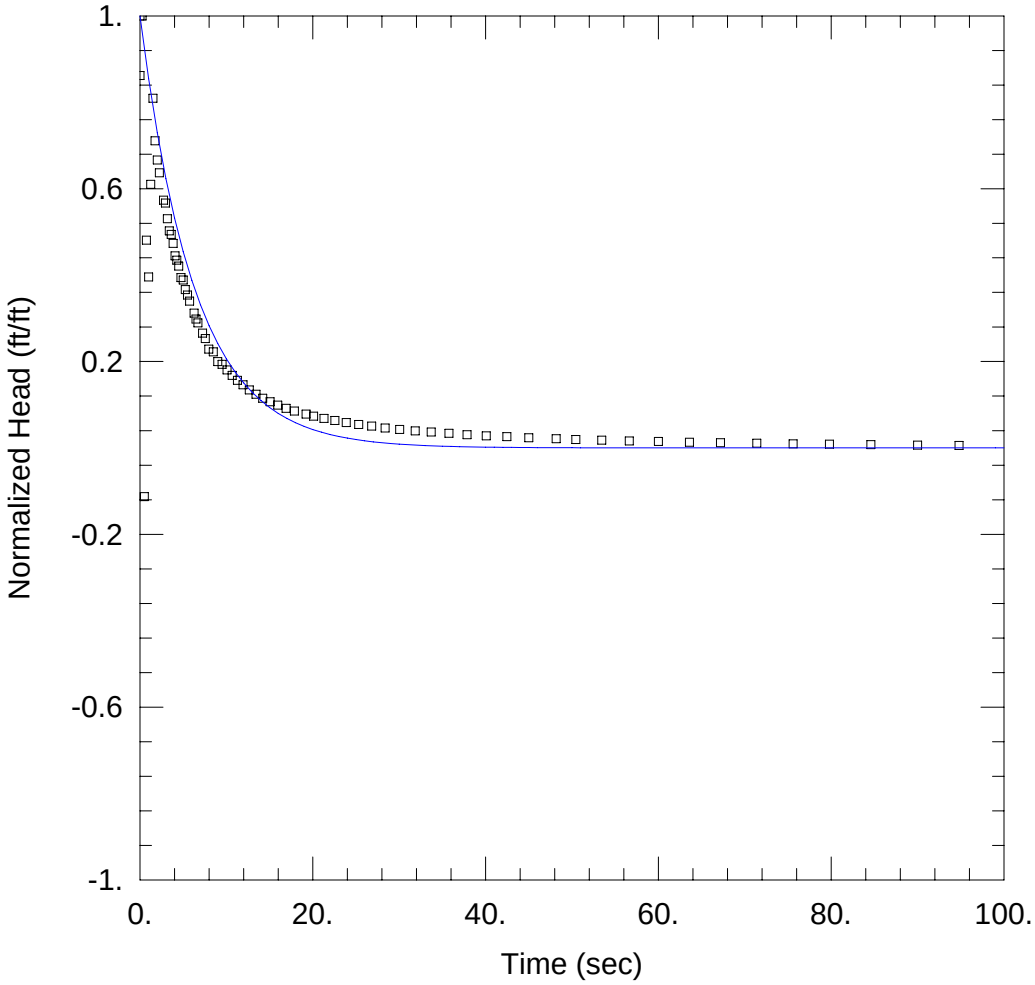
WELL DATA (KAFB106032)

Initial Displacement: 5.493 ft
Total Well Penetration Depth: 12. ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 17. ft
Screen Length: 12. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 108.3 ft/day
Kz/Kr = 0.0001
Ss' = 0.001 ft^{-1}
Ss = 5.399E-5 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



QC_KAFB106032OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106032OUT-SG.aqt
Date: 10/06/11 Time: 13:22:34

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106032
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 30. ft
Anisotropy Ratio (Kz/Kr): 0.1

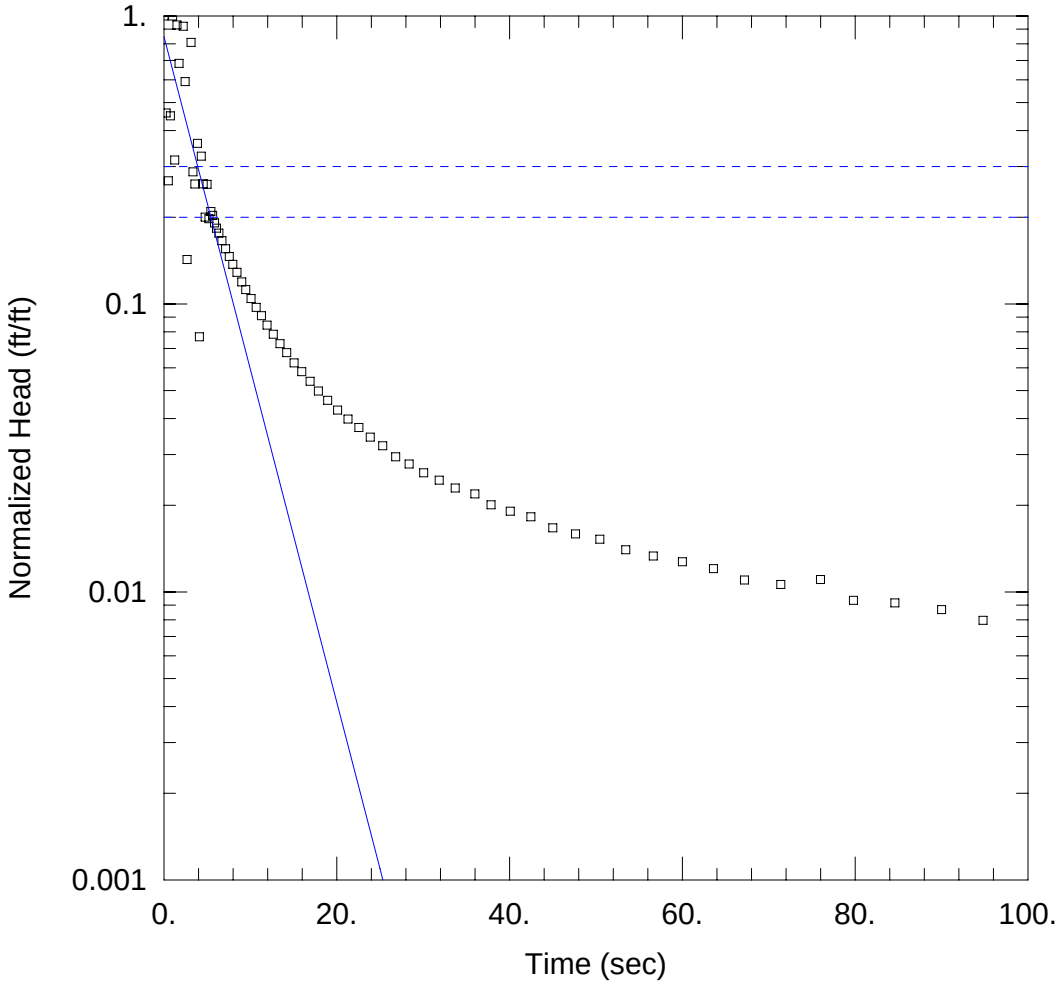
WELL DATA (KAFB106032)

Initial Displacement: 5.493 ft
Total Well Penetration Depth: 12. ft
Casing Radius: 0.198 ft
Static Water Column Height: 17. ft
Screen Length: 12. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 81.38 ft/day
Le = 1. ft



QC_KAFB106038IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106038IN-BR.aqt
Date: 10/06/11 Time: 13:26:39

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106038
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 23. ft Anisotropy Ratio (Kz/Kr): 1.

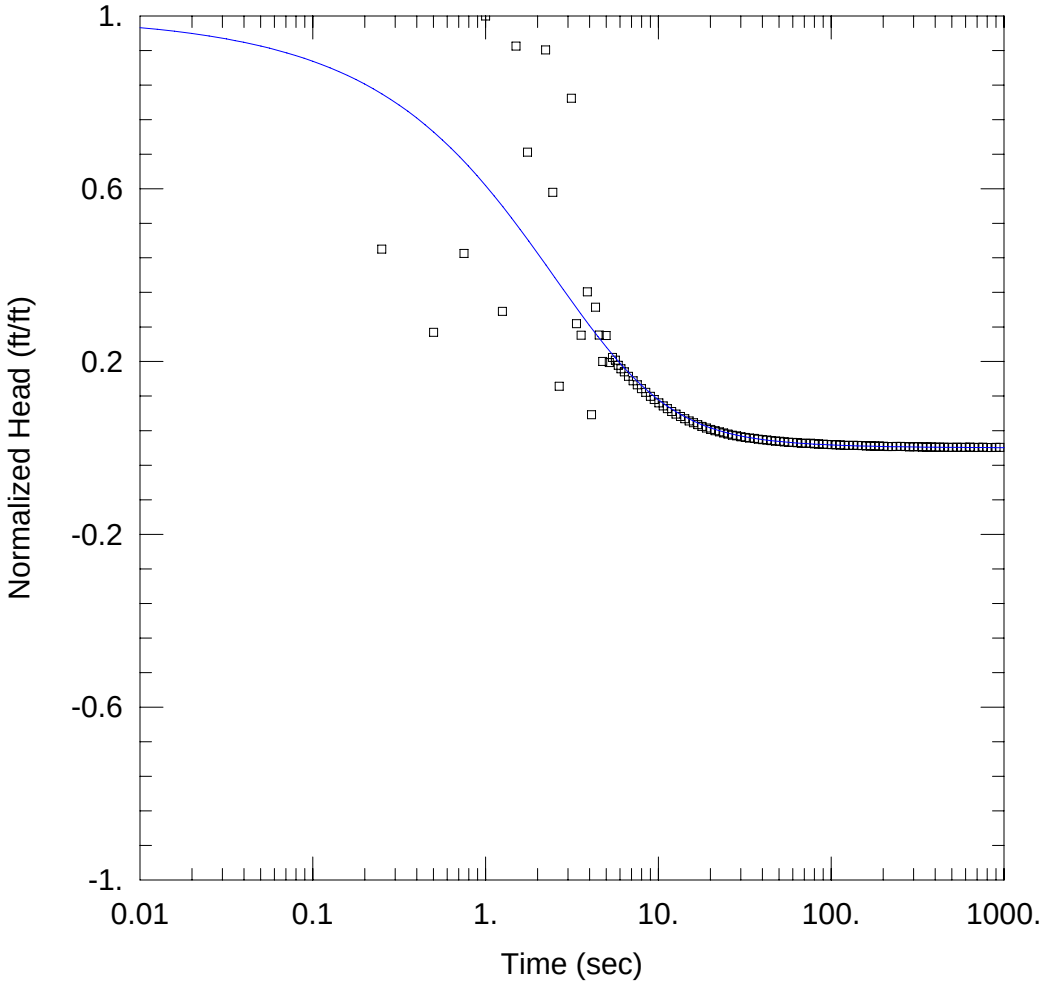
WELL DATA (KAFB106038)

Initial Displacement: 5.637 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.198 ft
Static Water Column Height: 18. ft
Screen Length: 13. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined Solution Method: Bouwer-Rice

K = 98.89 ft/day y0 = 4.779 ft



QC_KAFB106038IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106038IN-KGS.aqt
Date: 10/06/11 Time: 13:26:16

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106038
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 23. ft

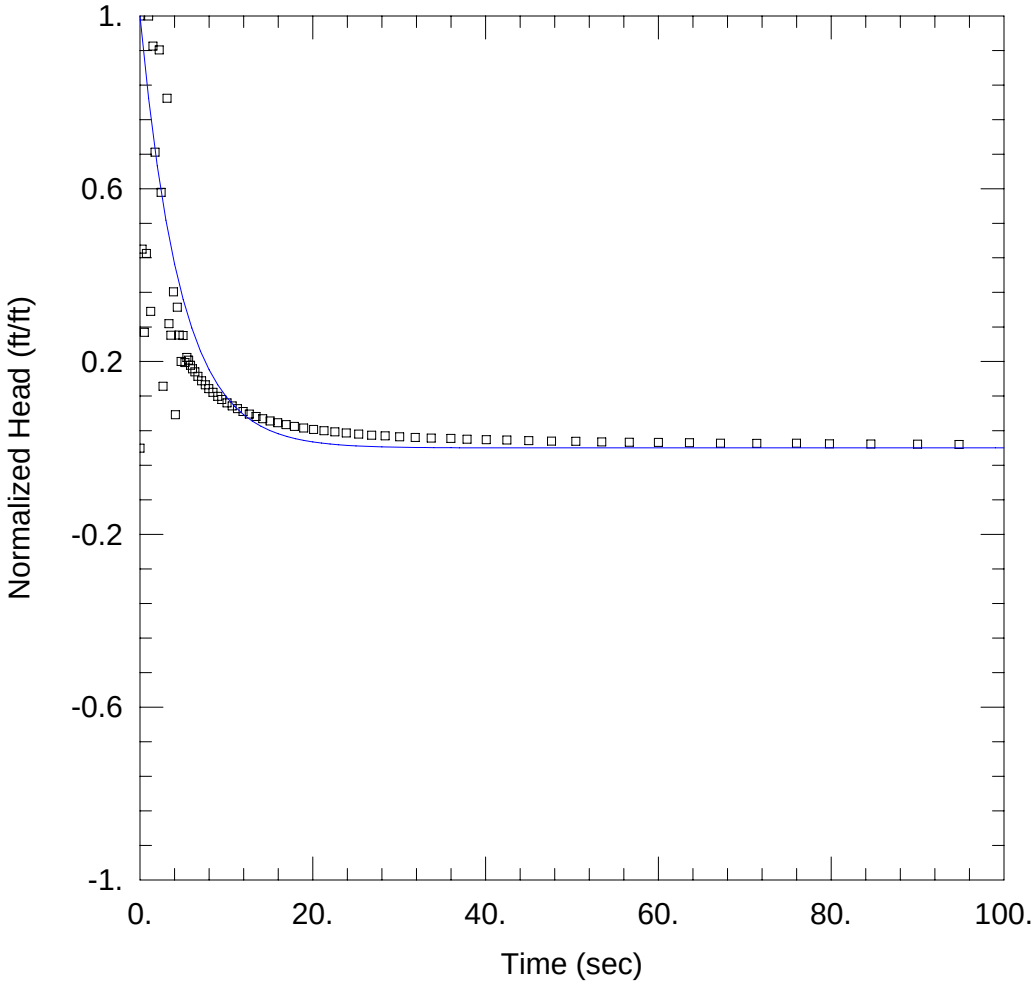
WELL DATA (KAFB106038)

Initial Displacement: 5.637 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 18. ft
Screen Length: 13. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 98.89 ft/day
Kz/Kr = 0.001
Ss' = 0.001 ft^{-1}
Ss = 0.001244 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



QC_KAFB106038IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106038IN-SG.aqt
Date: 10/06/11 Time: 13:25:32

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106038
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 23. ft
Anisotropy Ratio (Kz/Kr): 0.01

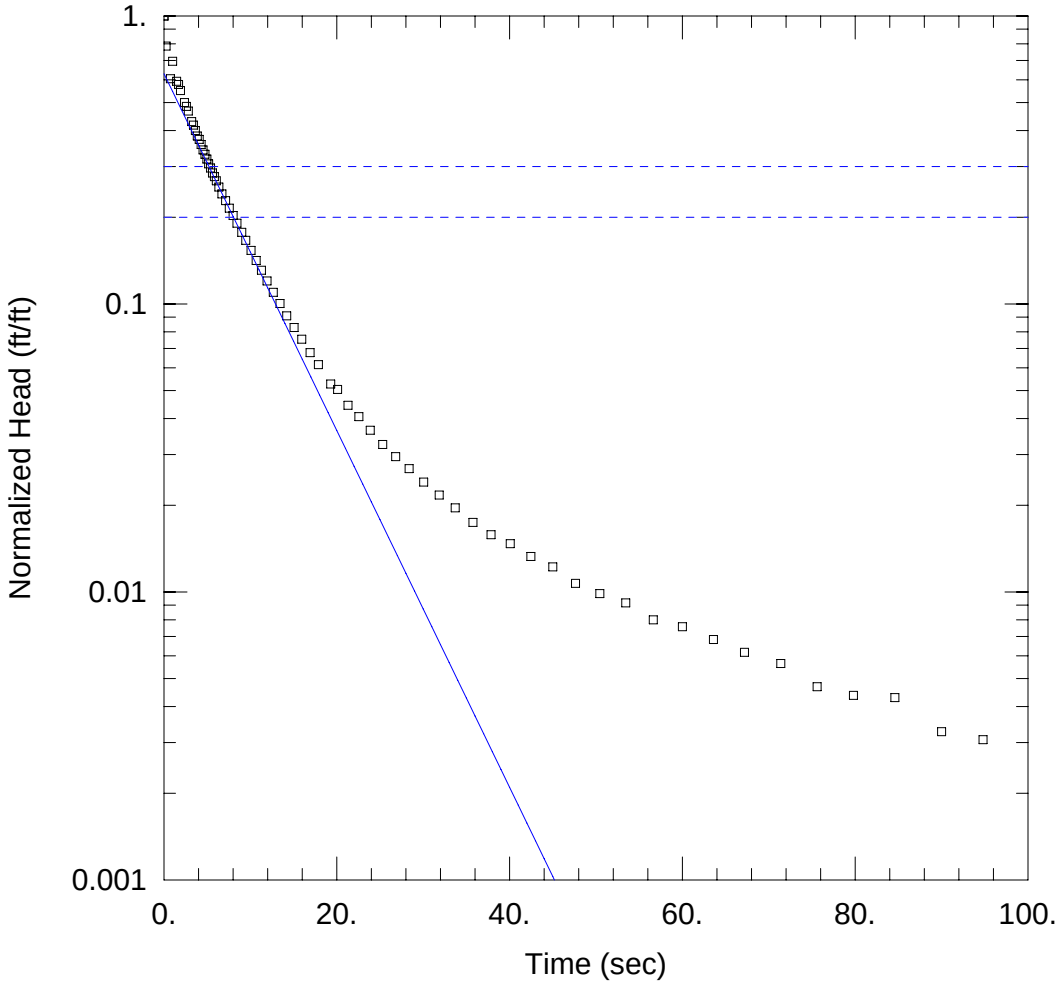
WELL DATA (KAFB106038)

Initial Displacement: 5.637 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.198 ft
Static Water Column Height: 18. ft
Screen Length: 13. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 136. ft/day
Le = 1. ft



QC_KAFB106038OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106038OUT-BR.aqt
Date: 10/06/11 Time: 13:24:57

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106038
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 23. ft
Anisotropy Ratio (Kz/Kr): 0.001

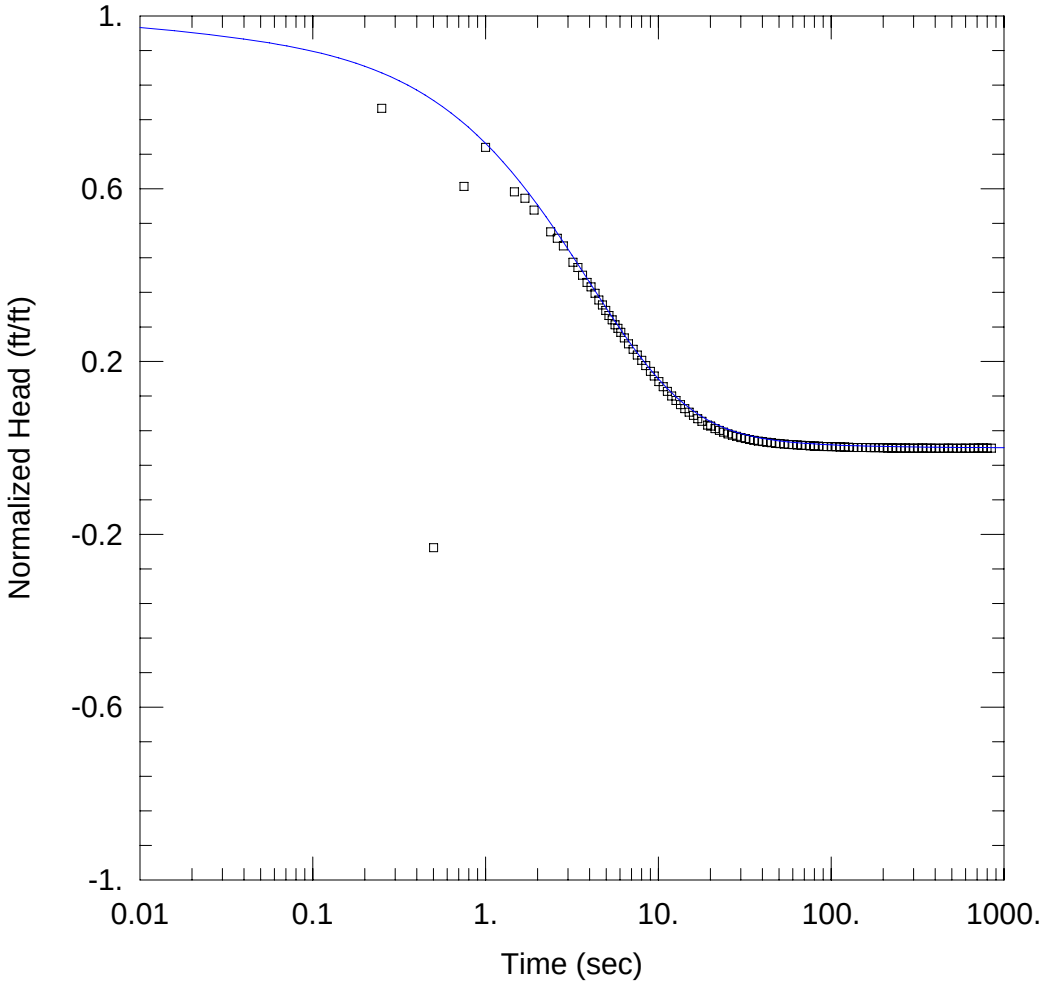
WELL DATA (KAFB106038)

Initial Displacement: 6.723 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.198 ft
Static Water Column Height: 18. ft
Screen Length: 13. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 117.5 ft/day
y0 = 4.235 ft



QC_KAFB106038OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106038OUT-KGS.aqt
Date: 10/06/11 Time: 13:24:16

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106038
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 23. ft

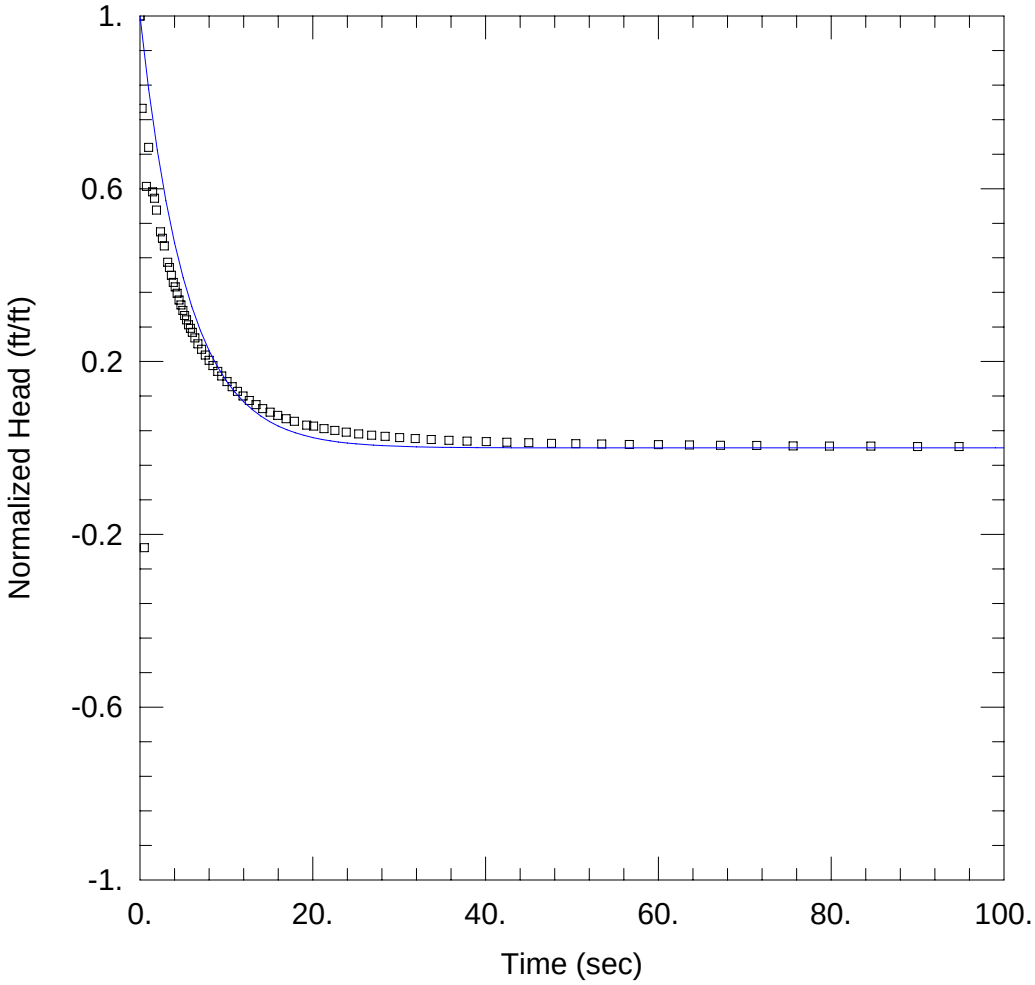
WELL DATA (KAFB106038)

Initial Displacement: 6.723 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.198 ft
Well Skin Radius: 0.417 ft
Static Water Column Height: 18. ft
Screen Length: 13. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model w/skin

Kr = 97.55 ft/day
Kz/Kr = 0.001
Ss' = 0.001 ft^{-1}
Ss = 0.0001737 ft^{-1}
Kr' = 180. ft/day
Kz/Kr' = 1.



QC_KAFB106038OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106038OUT-SG.aqt
Date: 10/06/11 Time: 13:27:46

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106038
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 23. ft
Anisotropy Ratio (Kz/Kr): 0.01

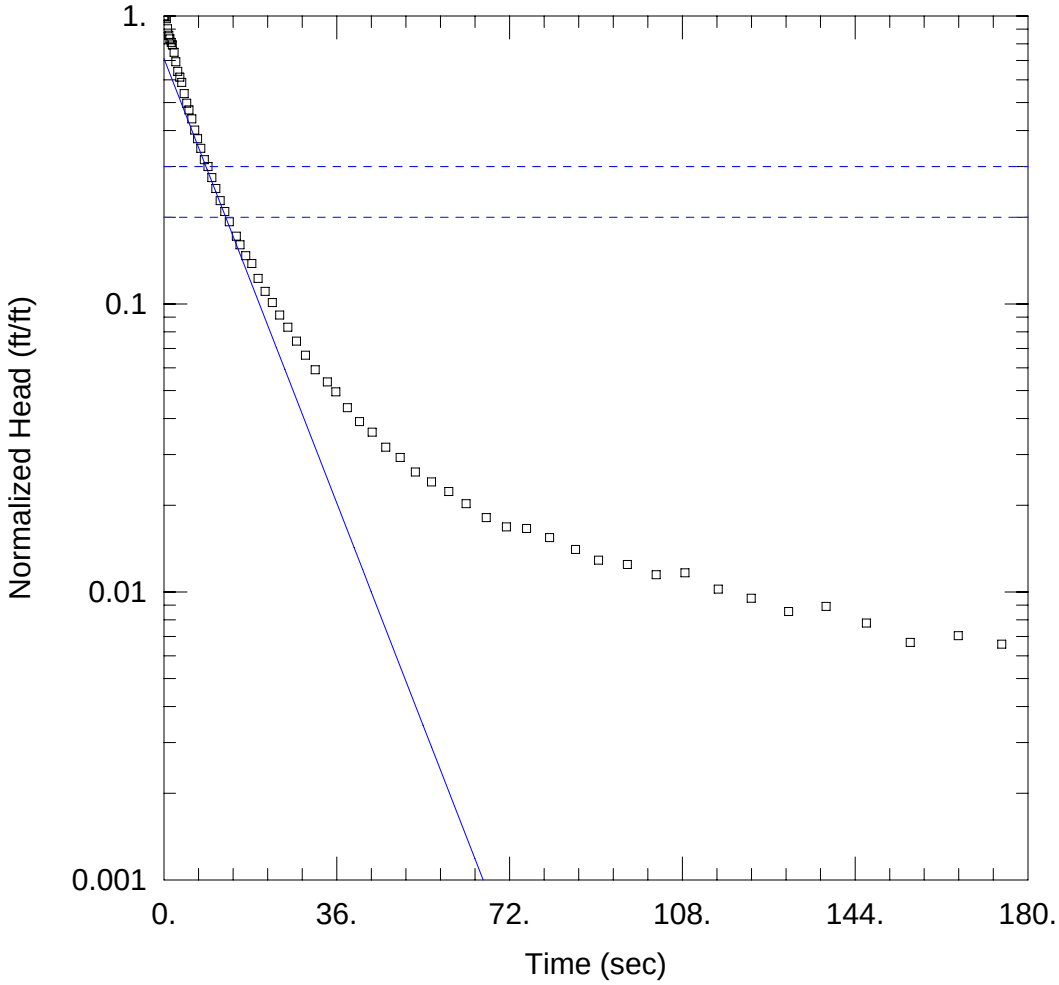
WELL DATA (KAFB106038)

Initial Displacement: 6.723 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.198 ft
Static Water Column Height: 18. ft
Screen Length: 13. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 118.6 ft/day
Le = 1. ft



QC_KAFB106089P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106089P1-BR.aqt
Date: 10/06/11 Time: 11:51:50

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 1.0E-6

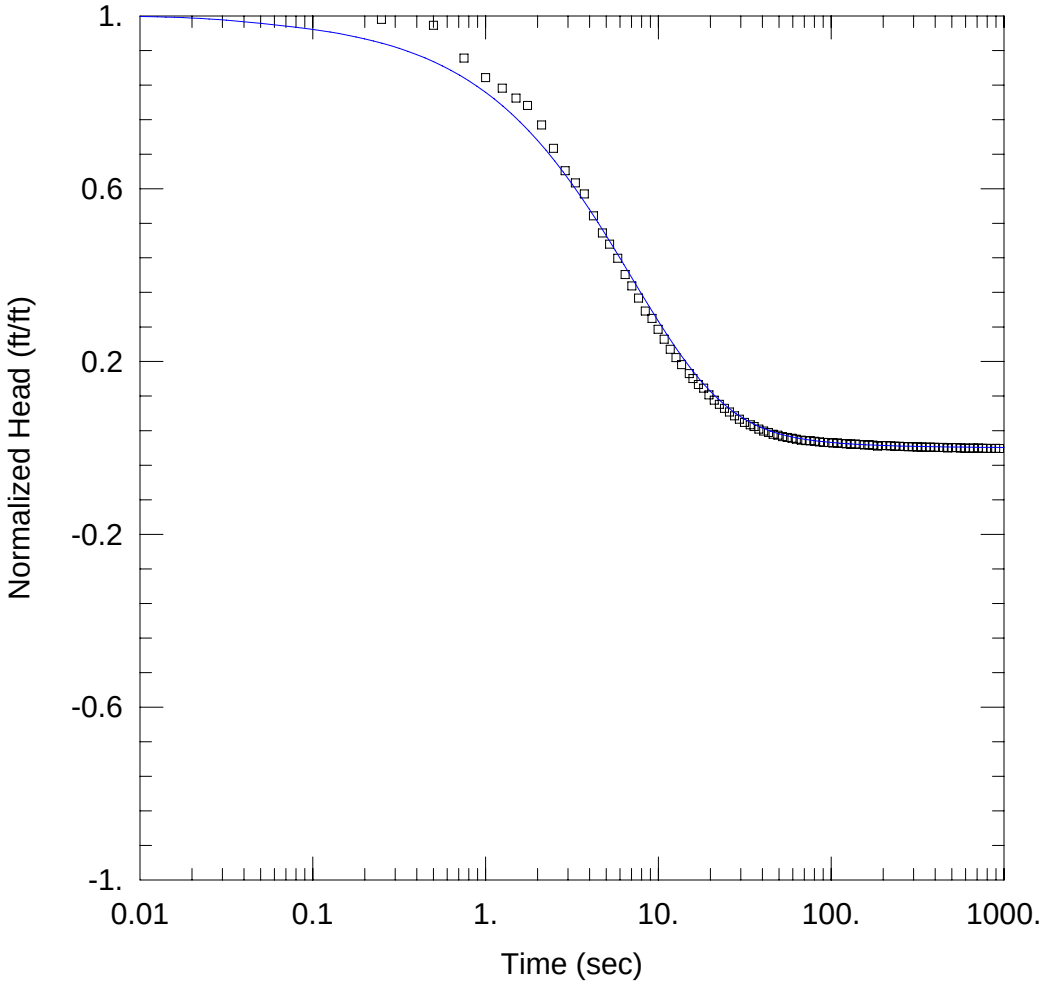
WELL DATA (KAFB106089)

Initial Displacement: 2.431 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 105.9 ft/day
y0 = 1.729 ft



QC_KAFB106089P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106089P1-BZ.aqt
Date: 10/06/11 Time: 11:53:33

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 1.0E-6

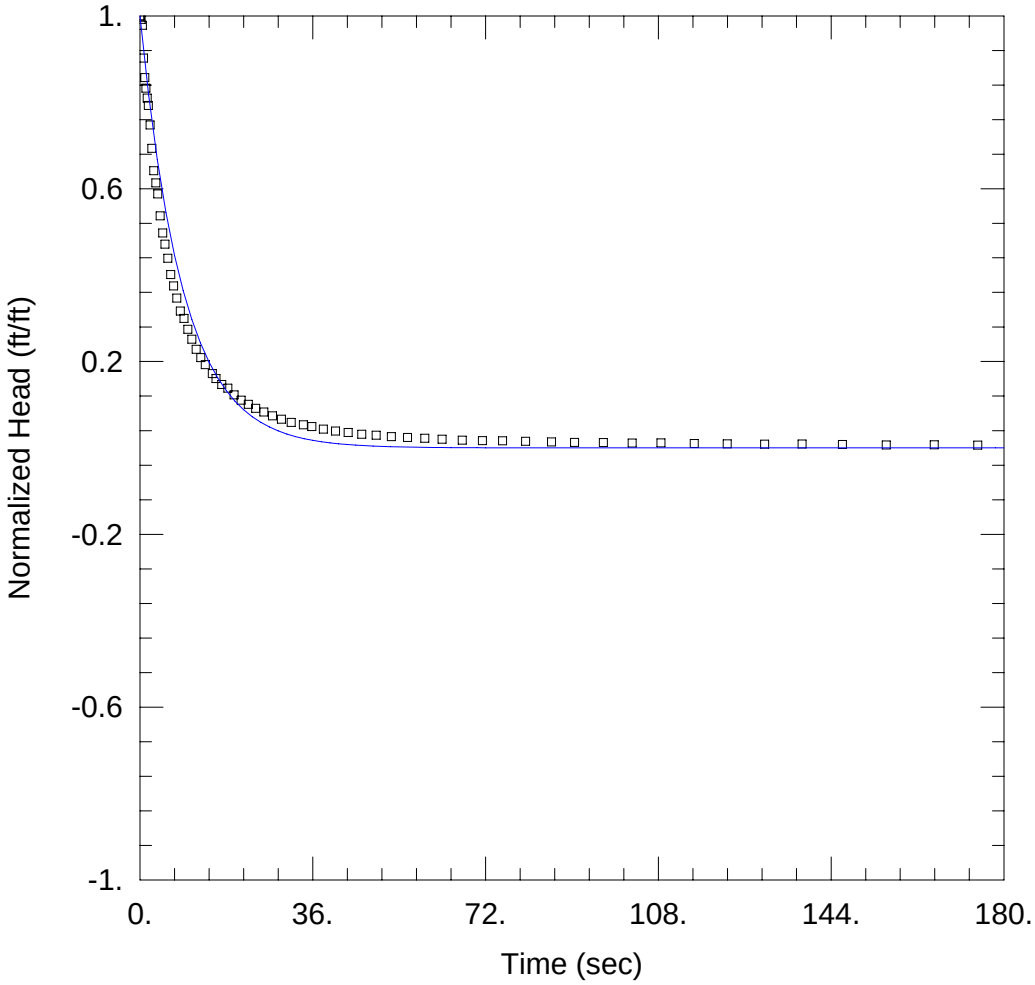
WELL DATA (KAFB106089)

Initial Displacement: 2.431 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 55.78 ft/day
Kz/Kr = 1.0E-6
Ss = 0.0001174 ft^{-1}
Le = 1. ft



QC_KAFB106089P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106089P1-SG.aqt
Date: 10/06/11 Time: 11:55:13

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 1.0E-6

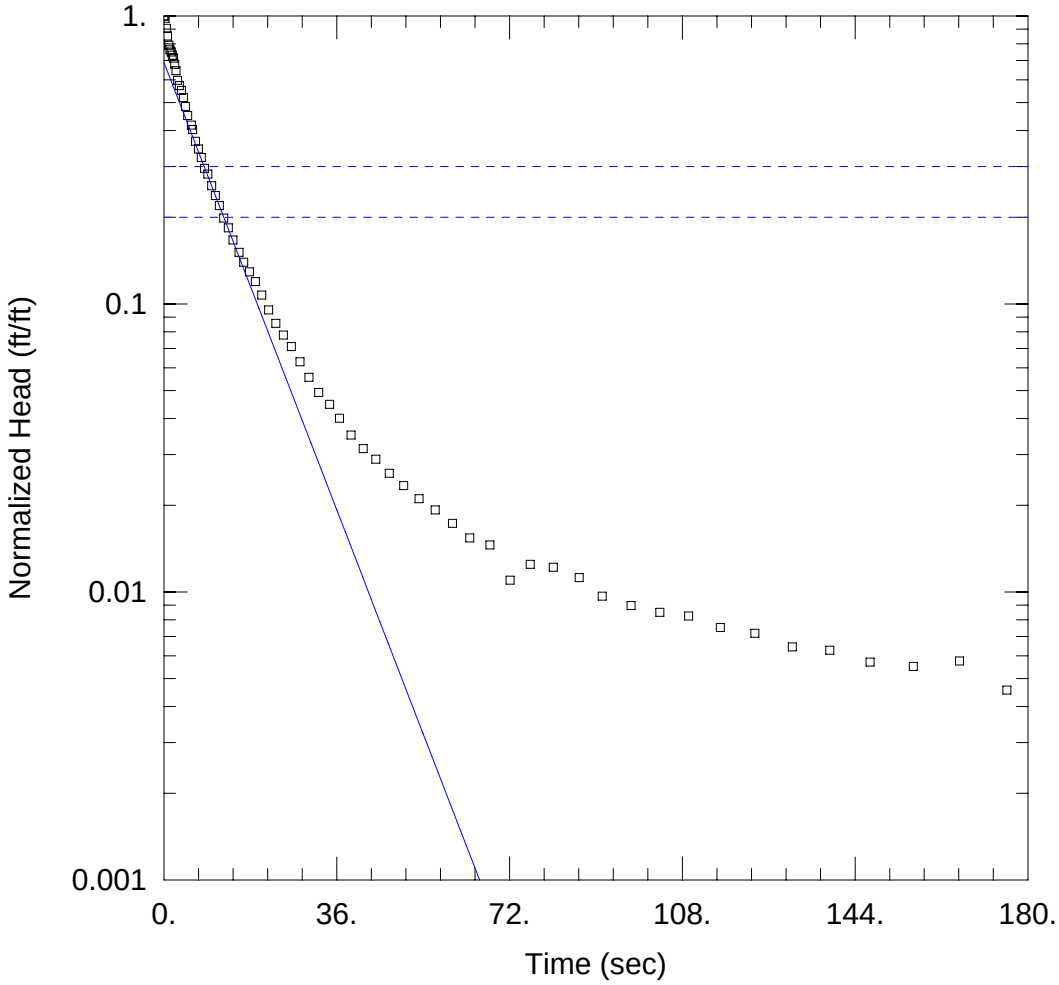
WELL DATA (KAFB106089)

Initial Displacement: 2.431 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 120.6 ft/day
Le = 1. ft



QC_KAFB106089P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106089P2-BR.aqt
Date: 10/06/11 Time: 12:57:02

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 1.0E-6

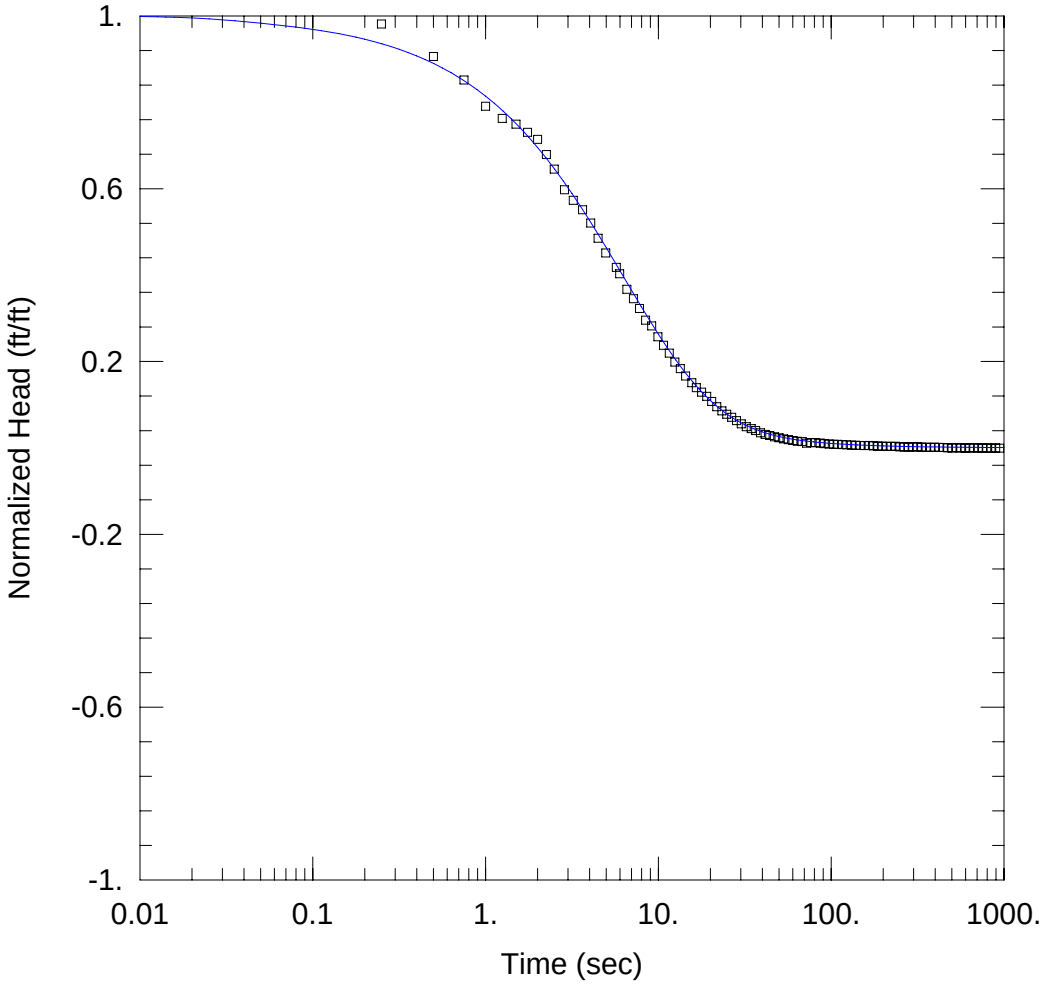
WELL DATA (KAFB106089)

Initial Displacement: 2.42 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 106.6 ft/day
y0 = 1.667 ft



QC_KAFB106089P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106089P2-BZ.aqt
Date: 10/06/11 Time: 12:58:23

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 1.0E-6

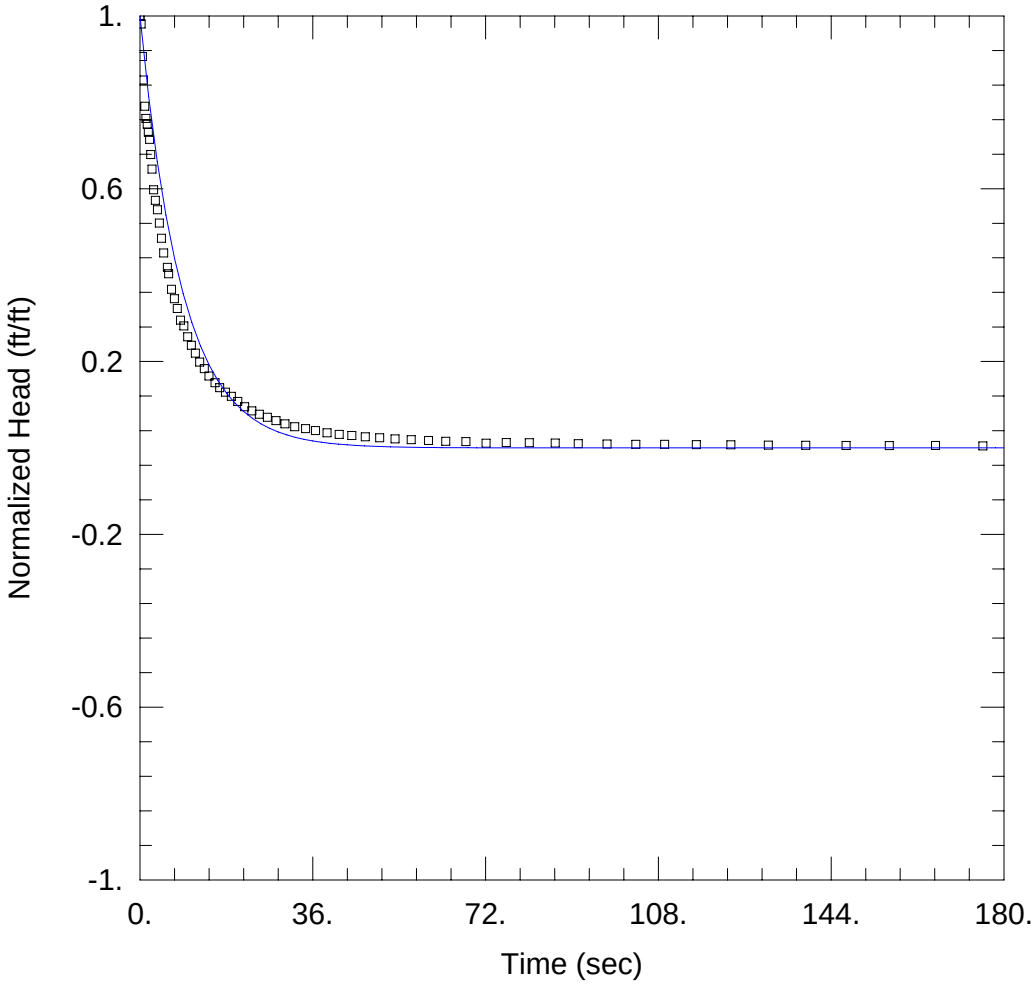
WELL DATA (KAFB106089)

Initial Displacement: 2.42 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 66.57 ft/day
Kz/Kr = 1.0E-6
Ss = 6.995E-5 ft^{-1}
Le = 1. ft



QC_KAFB106089P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106089P2-SG.aqt
Date: 10/06/11 Time: 13:00:10

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 1.0E-6

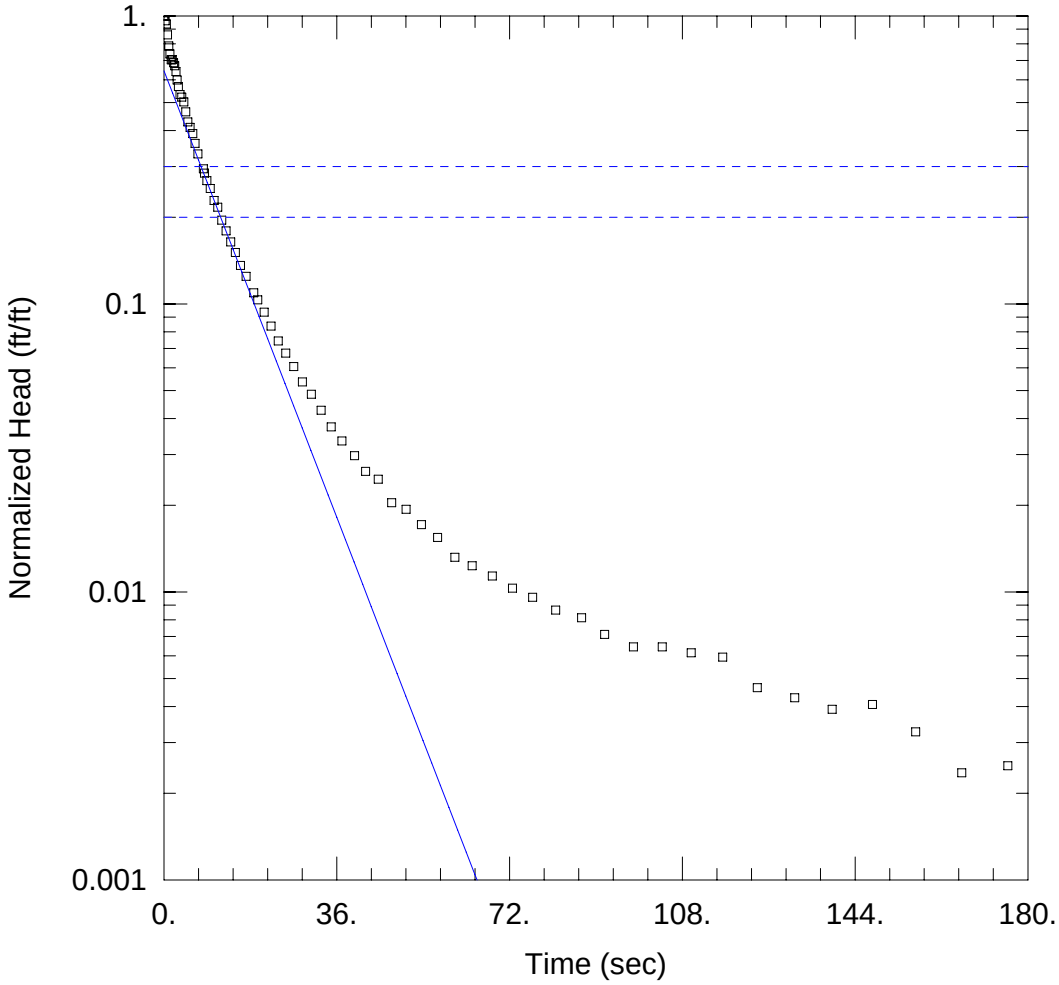
WELL DATA (KAFB106089)

Initial Displacement: 2.42 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 123. ft/day
Le = 1. ft



QC_KAFB106089P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106089P3-BR.aqt
Date: 10/06/11 Time: 13:02:52

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 1.0E-6

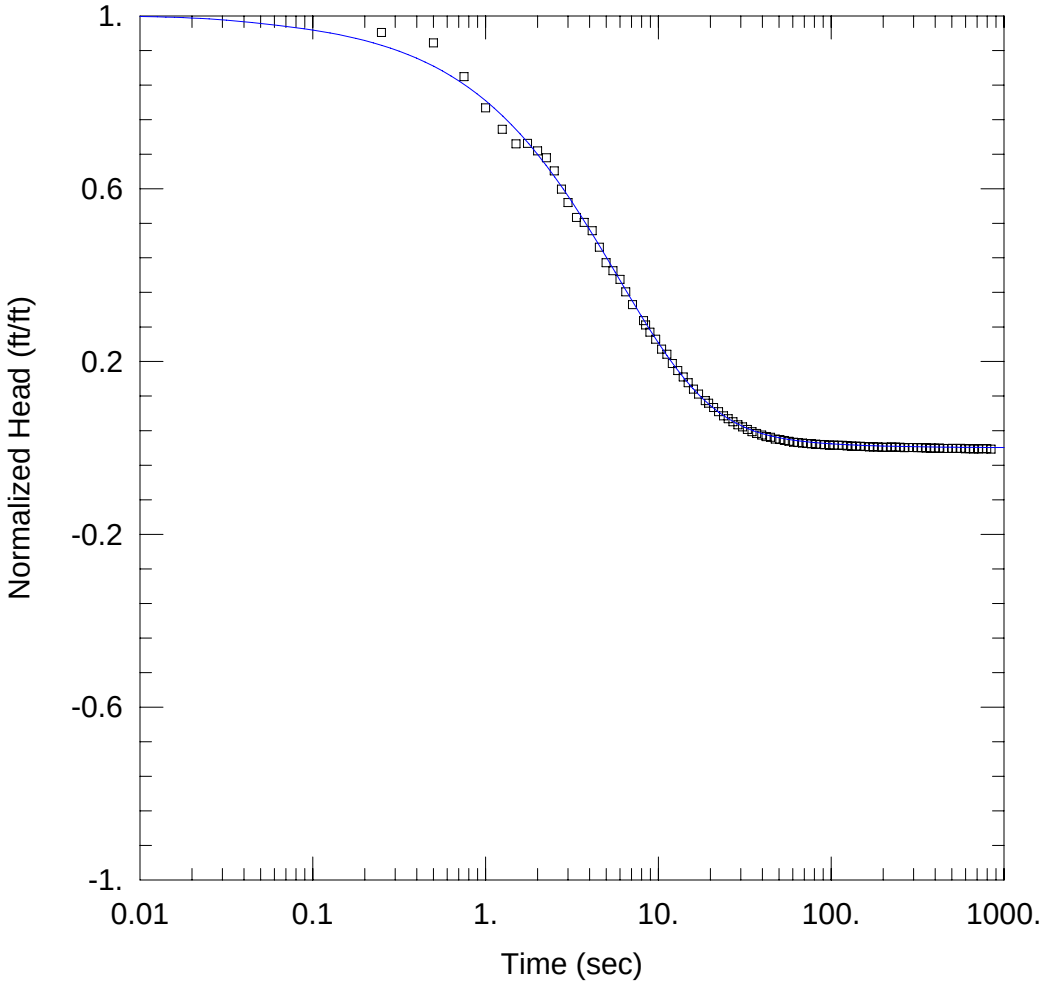
WELL DATA (KAFB106089)

Initial Displacement: 2.248 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 106.4 ft/day
y0 = 1.449 ft



QC_KAFB106089P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106089P3-BZ.aqt
Date: 10/06/11 Time: 13:04:15

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 1.0E-6

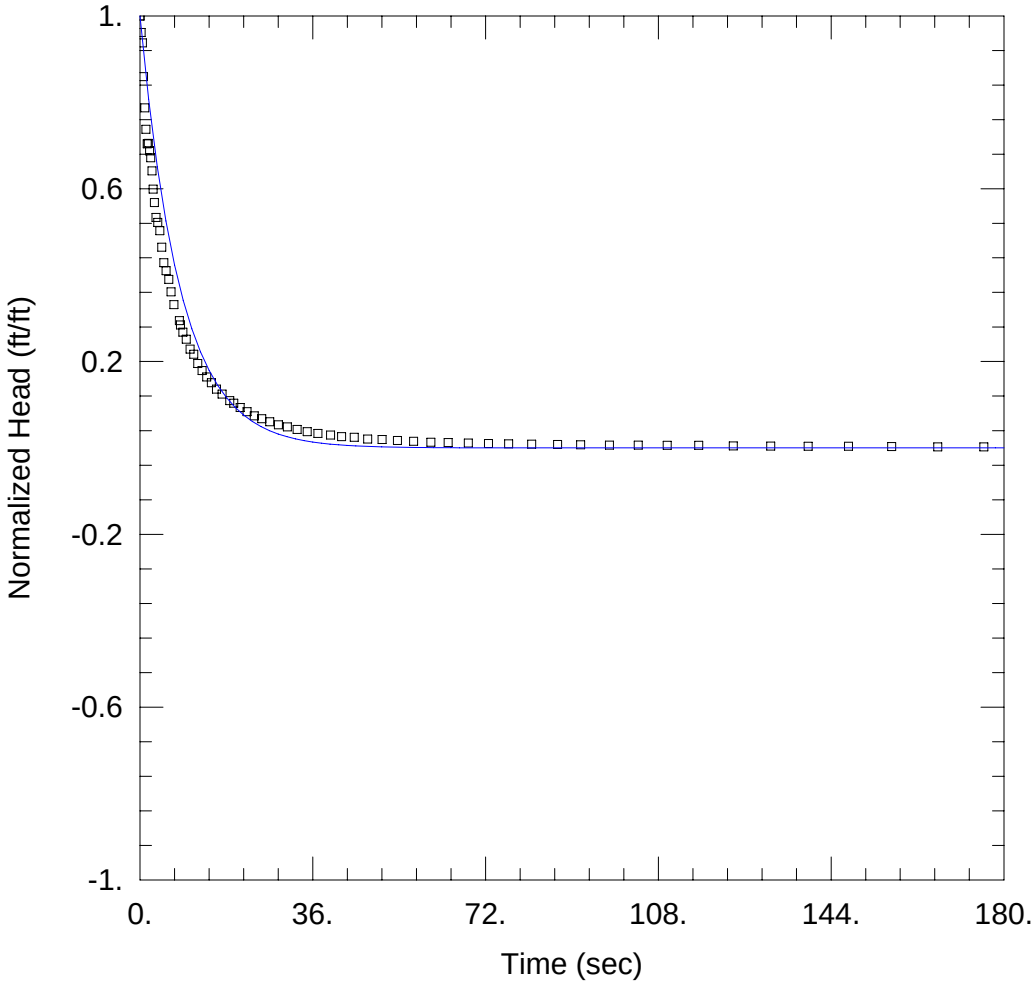
WELL DATA (KAFB106089)

Initial Displacement: 2.248 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 71.77 ft/day
Kz/Kr = 1.0E-6
Ss = 6.995E-5 ft^{-1}
Le = 1. ft



QC_KAFB106089P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106089P3-SG.aqt
Date: 10/06/11 Time: 13:08:46

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 1.0E-6

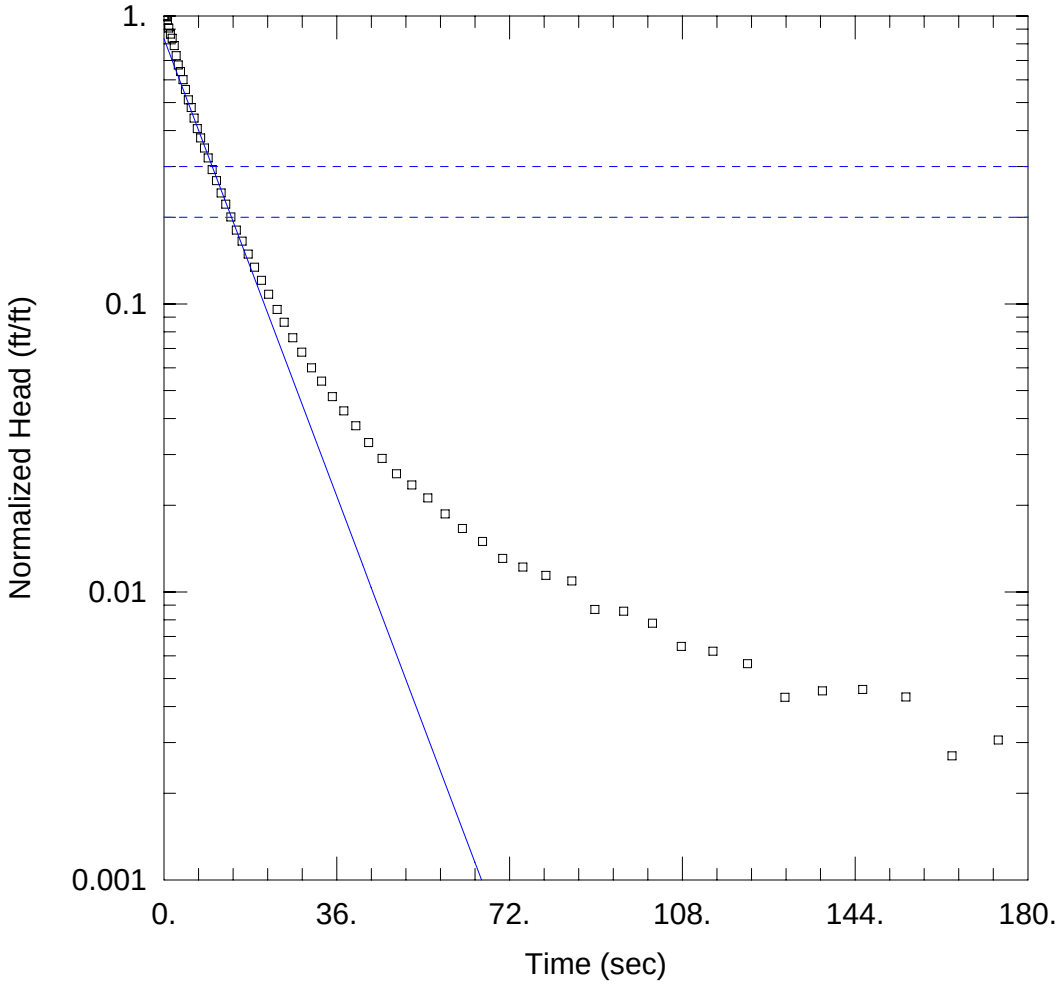
WELL DATA (KAFB106089)

Initial Displacement: 2.248 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 128.1 ft/day
Le = 1. ft



QC_KAFB106089P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106089P4-BR.aqt
Date: 10/06/11 Time: 13:09:34

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 1.0E-6

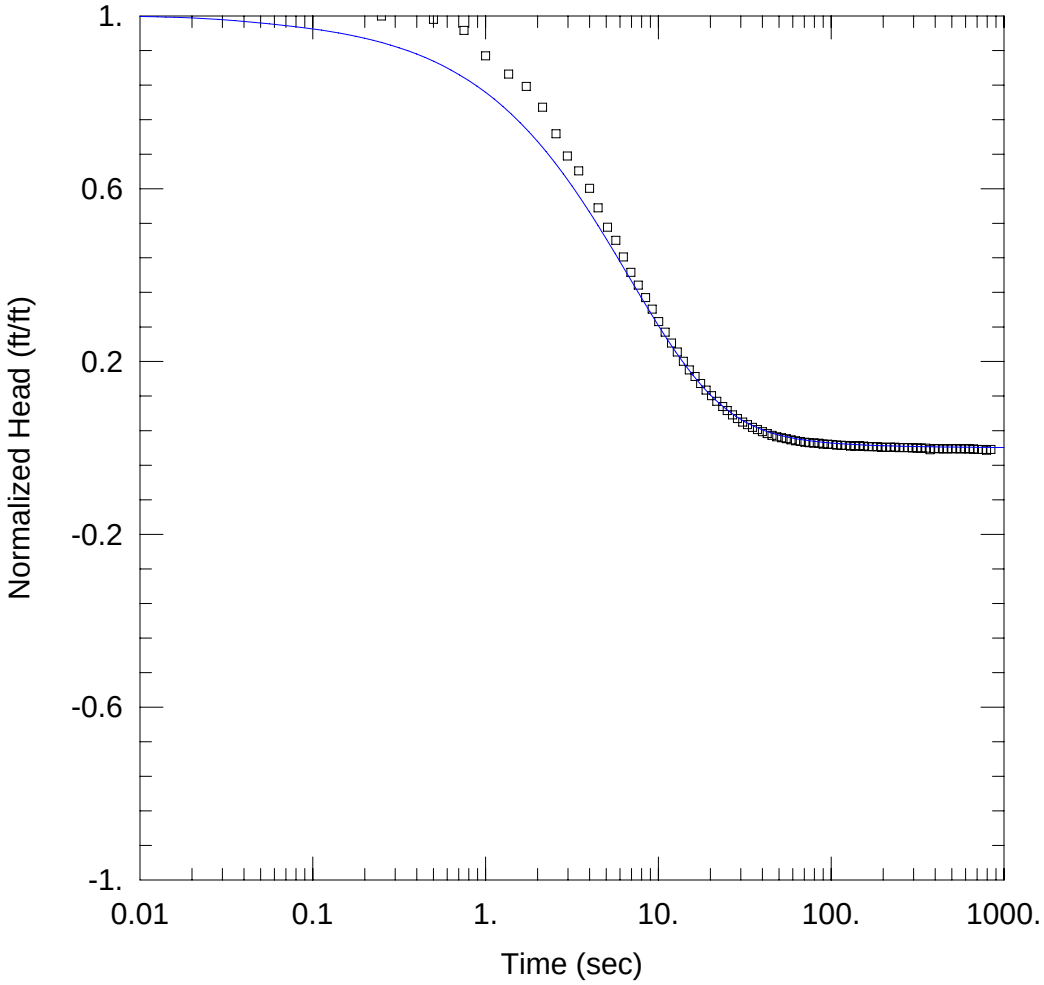
WELL DATA (KAFB106089)

Initial Displacement: 2.447 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 109.1 ft/day
y0 = 2.04 ft



QC_KAFB106089P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106089P4-BZ.aqt
Date: 10/06/11 Time: 13:11:30

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 1.0E-6

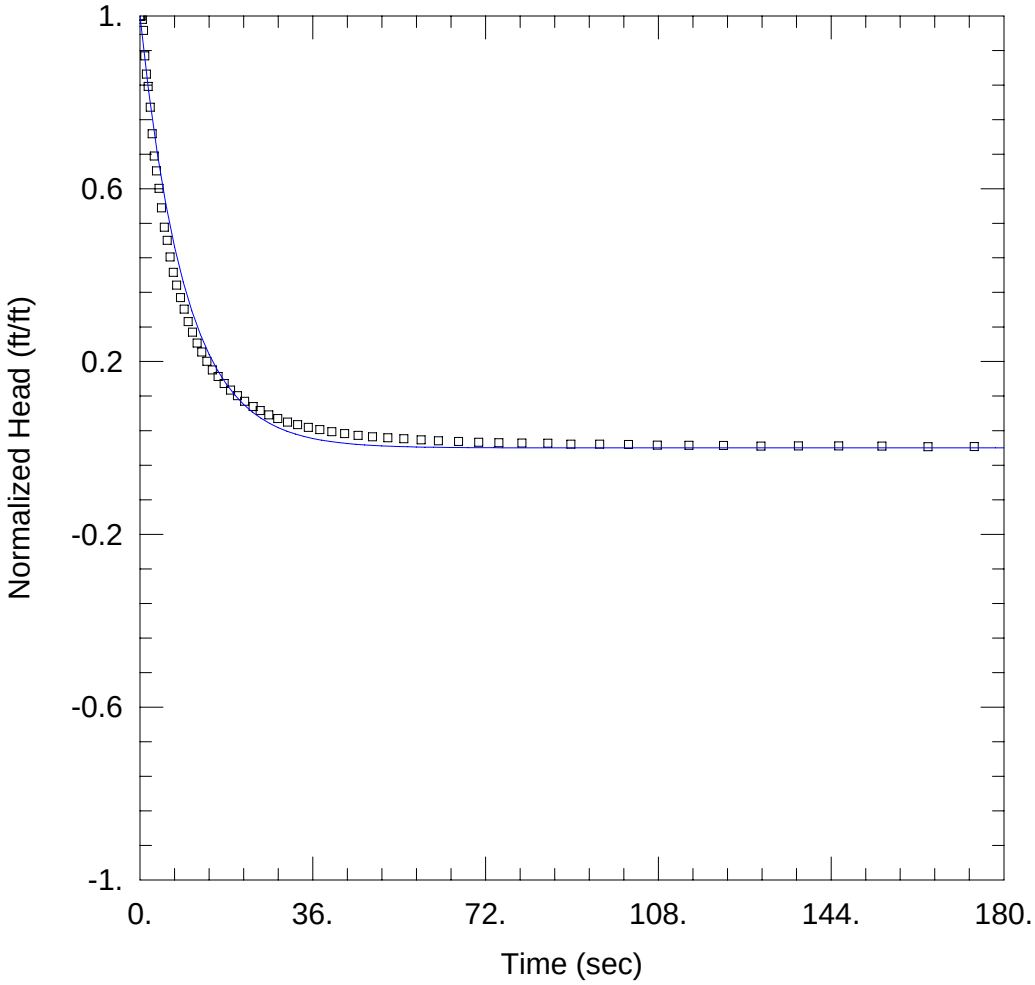
WELL DATA (KAFB106089)

Initial Displacement: 2.447 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 61.04 ft/day
Kz/Kr = 1.0E-6
Ss = 7.759E-5 ft^{-1}
Le = 1. ft



QC_KAFB106089P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106089P4-SG.aqt
Date: 10/06/11 Time: 13:13:16

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 1.0E-6

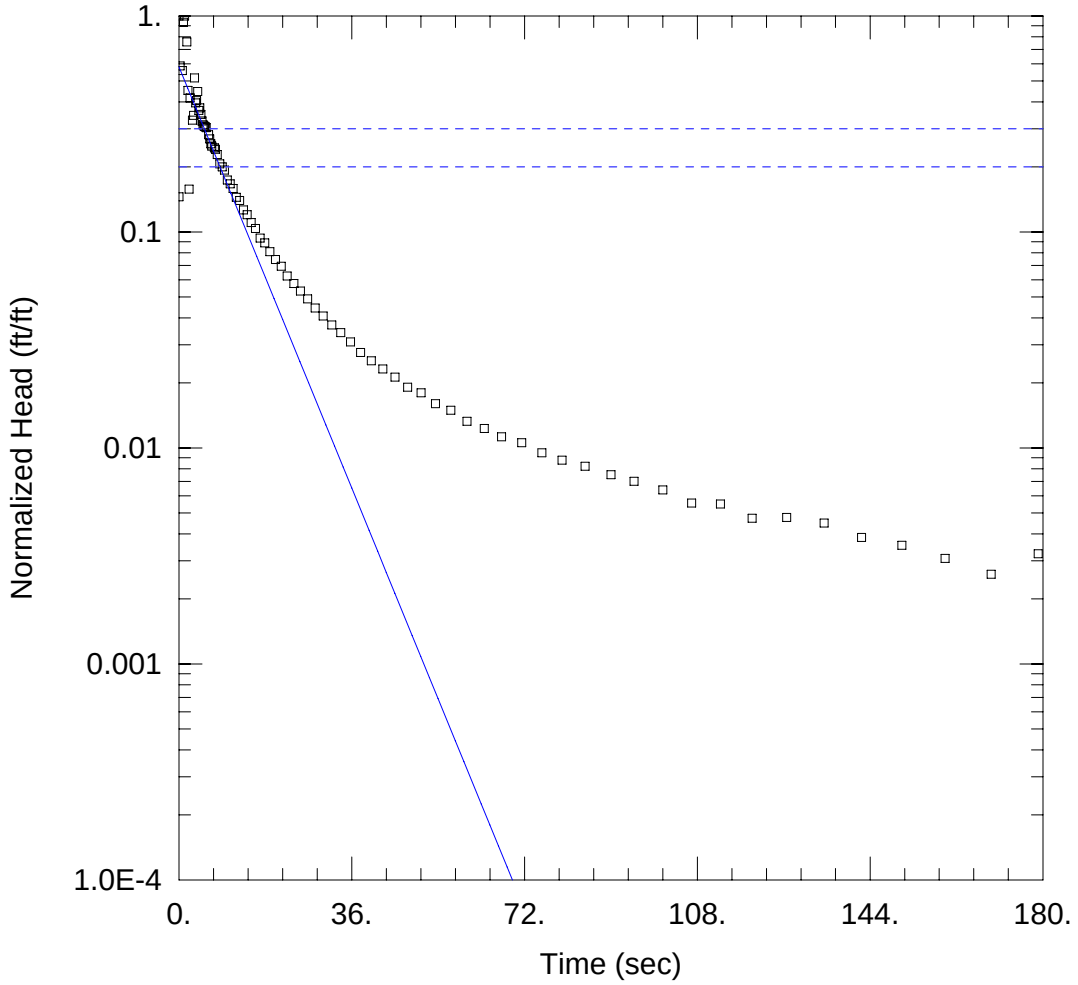
WELL DATA (KAFB106089)

Initial Displacement: 2.447 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 114.1 ft/day
Le = 1. ft



QC_KAFB106089IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106089IN-BR.aqt
Date: 10/06/11 Time: 11:40:52

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 1.0E-5

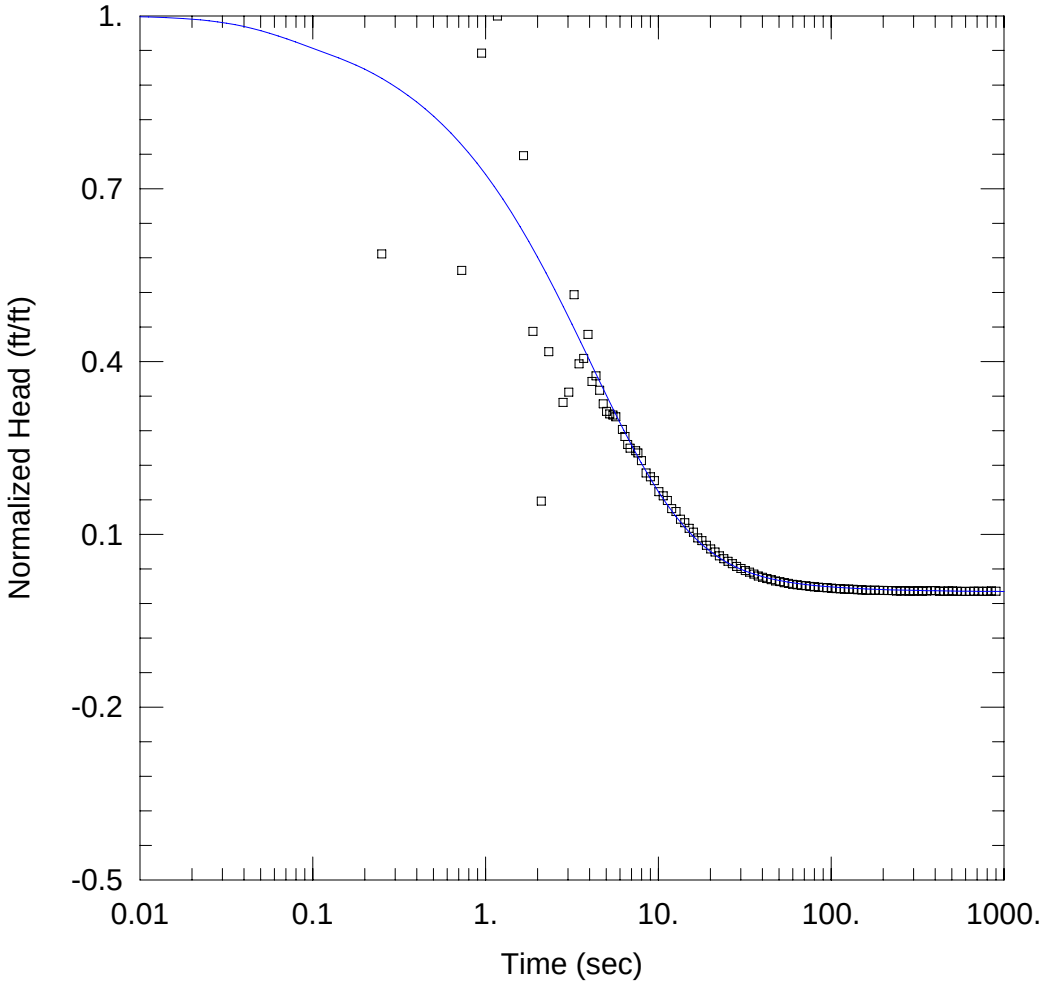
WELL DATA (KAFB106089)

Initial Displacement: 6.441 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 127.5 ft/day
y0 = 3.741 ft



QC_KAFB106089IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106089IN-BZ.aqt
Date: 10/06/11 Time: 11:42:44

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 1.0E-5

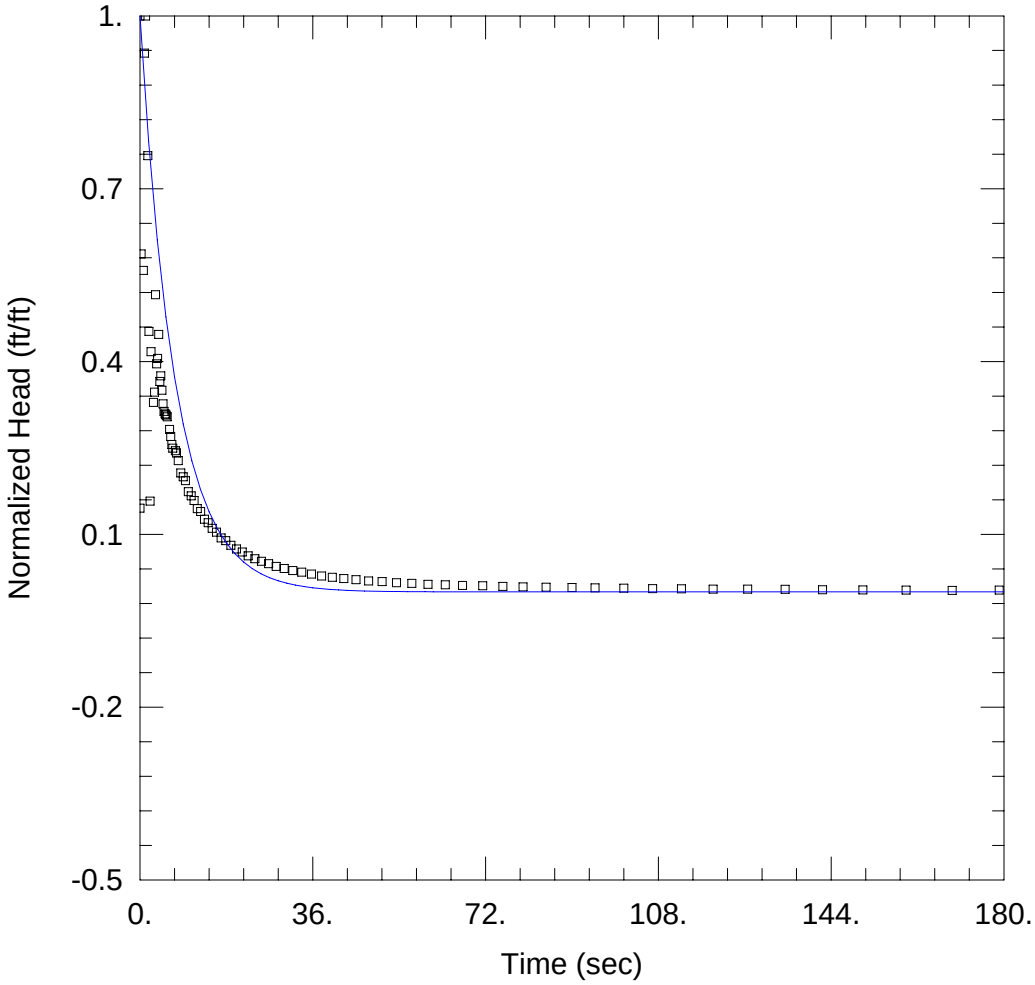
WELL DATA (KAFB106089)

Initial Displacement: 6.441 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 74.36 ft/day
Kz/Kr = 1.0E-5
Ss = 0.0005009 ft^{-1}
Le = 1. ft



QC_KAFB106089IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106089IN-SG.aqt
Date: 10/06/11 Time: 11:45:23

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 1.0E-5

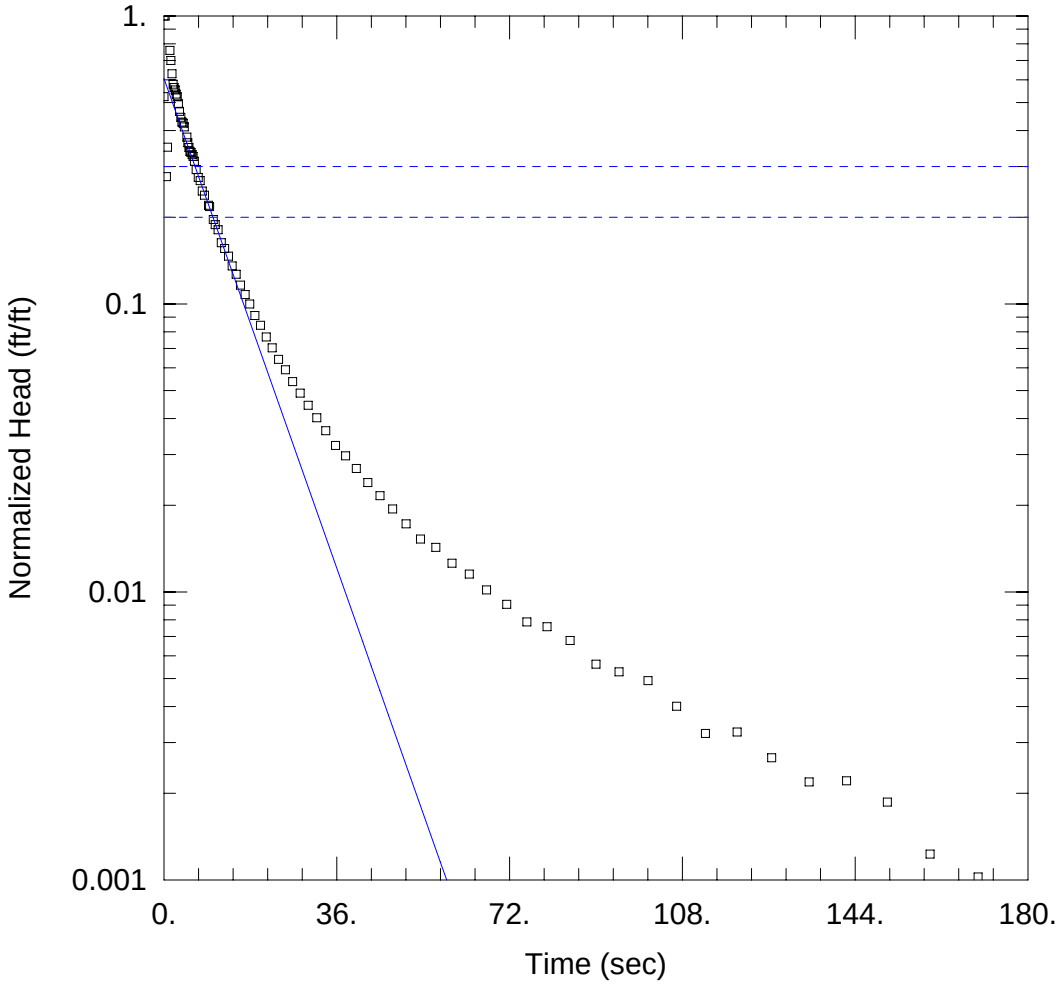
WELL DATA (KAFB106089)

Initial Displacement: 6.441 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 140.1 ft/day
Le = 1. ft



QC_KAFB106089OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106089OUT-BR.aqt
Date: 10/06/11 Time: 11:46:03

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 1.0E-6

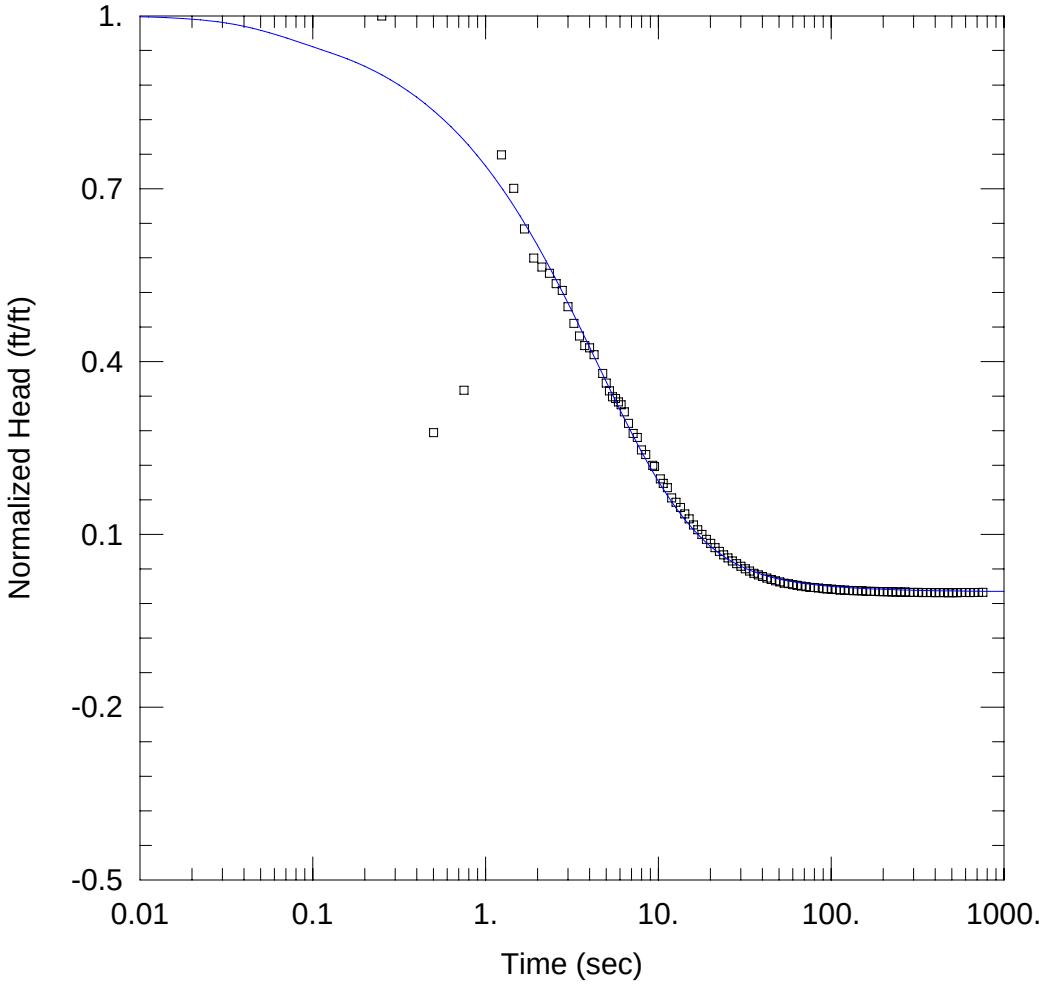
WELL DATA (KAFB106089)

Initial Displacement: 6.195 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 116.7 ft/day
y0 = 3.756 ft



QC_KAFB106089OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106089OUT-BZ.aqt
Date: 10/06/11 Time: 11:47:54

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 1.0E-6

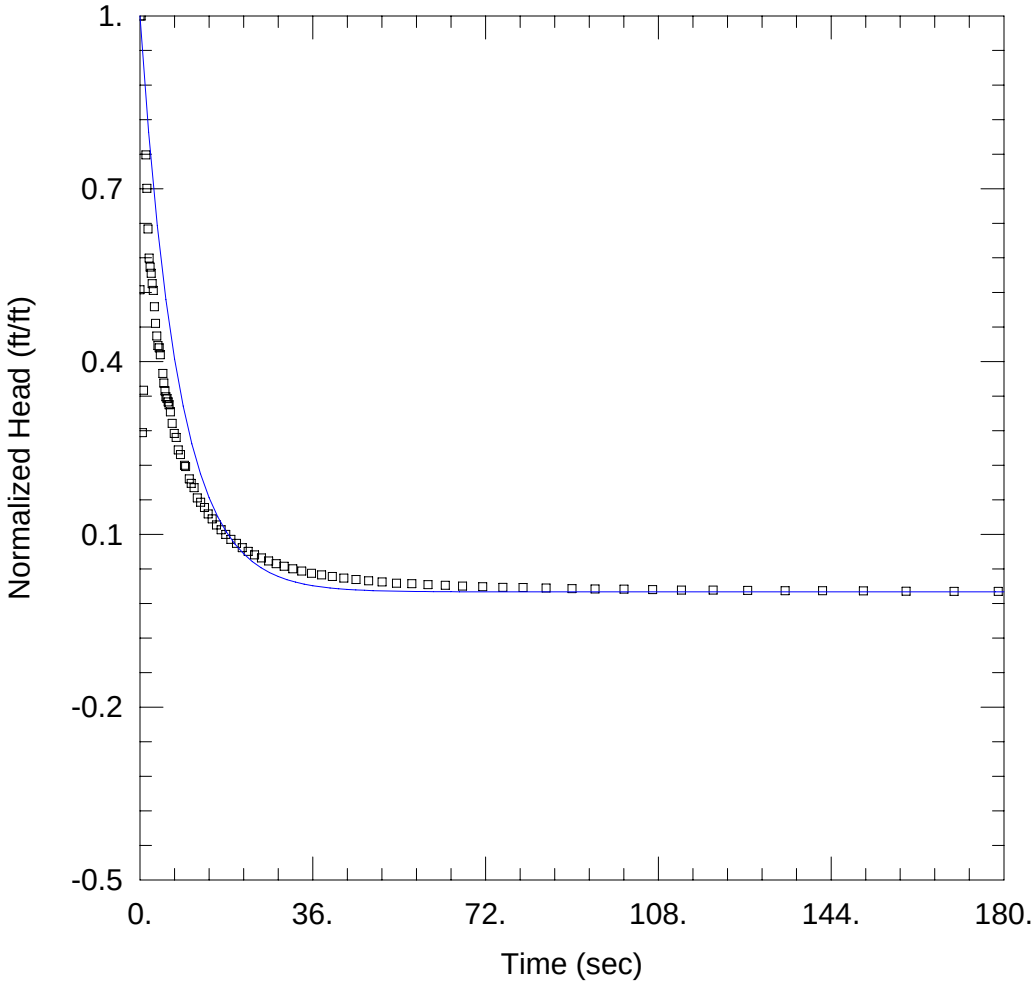
WELL DATA (KAFB106089)

Initial Displacement: 6.195 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 68.23 ft/day
Kz/Kr = 1.0E-6
Ss = 0.0005009 ft^{-1}
Le = 1. ft



QC_KAFB106089OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106089OUT-SG.aqt
Date: 10/06/11 Time: 11:49:53

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106089
Test Date: 10/4/11

AQUIFER DATA

Saturated Thickness: 35. ft
Anisotropy Ratio (Kz/Kr): 1.0E-5

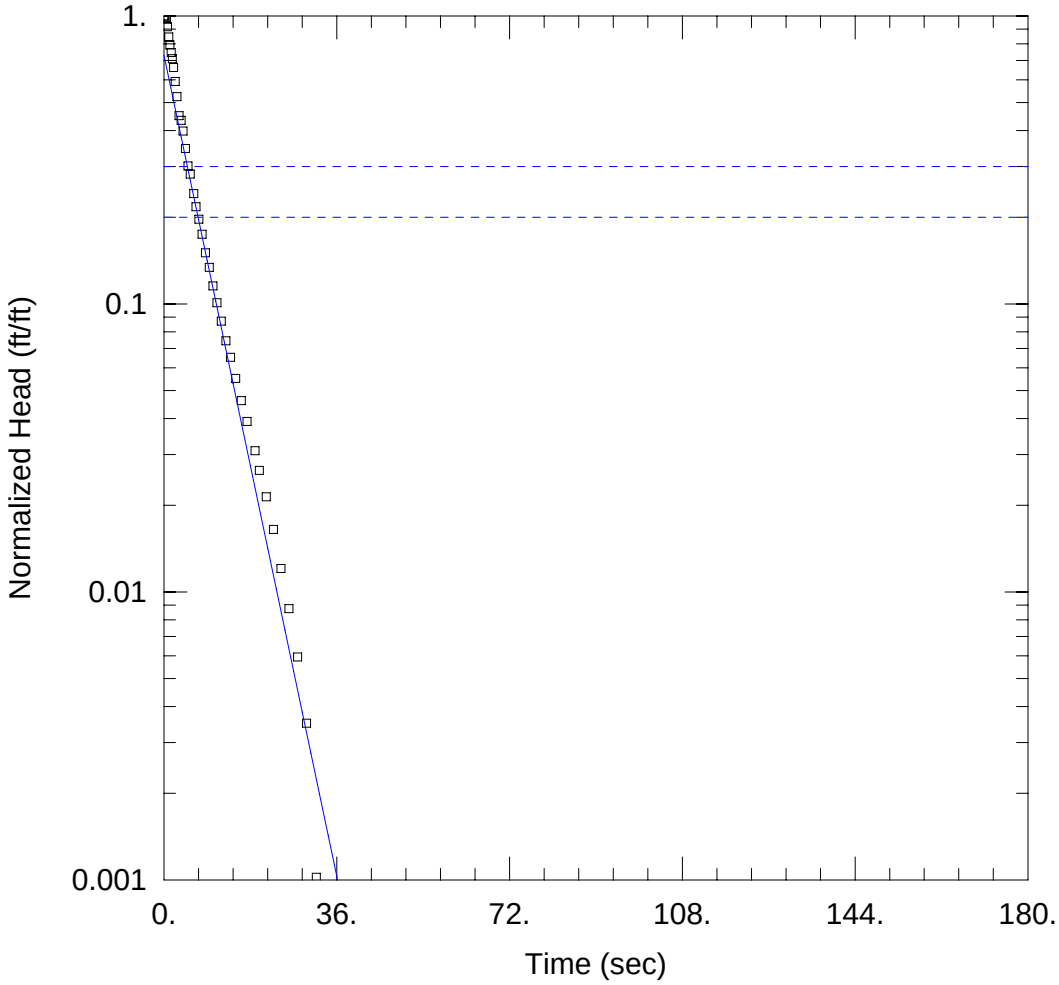
WELL DATA (KAFB106089)

Initial Displacement: 6.195 ft
Total Well Penetration Depth: 29. ft
Casing Radius: 0.198 ft
Static Water Column Height: 34. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 128.6 ft/day
Le = 1. ft



QC_KAFB106096P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106096P1-BR.aqt
Date: 10/06/11 Time: 11:04:37

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.001

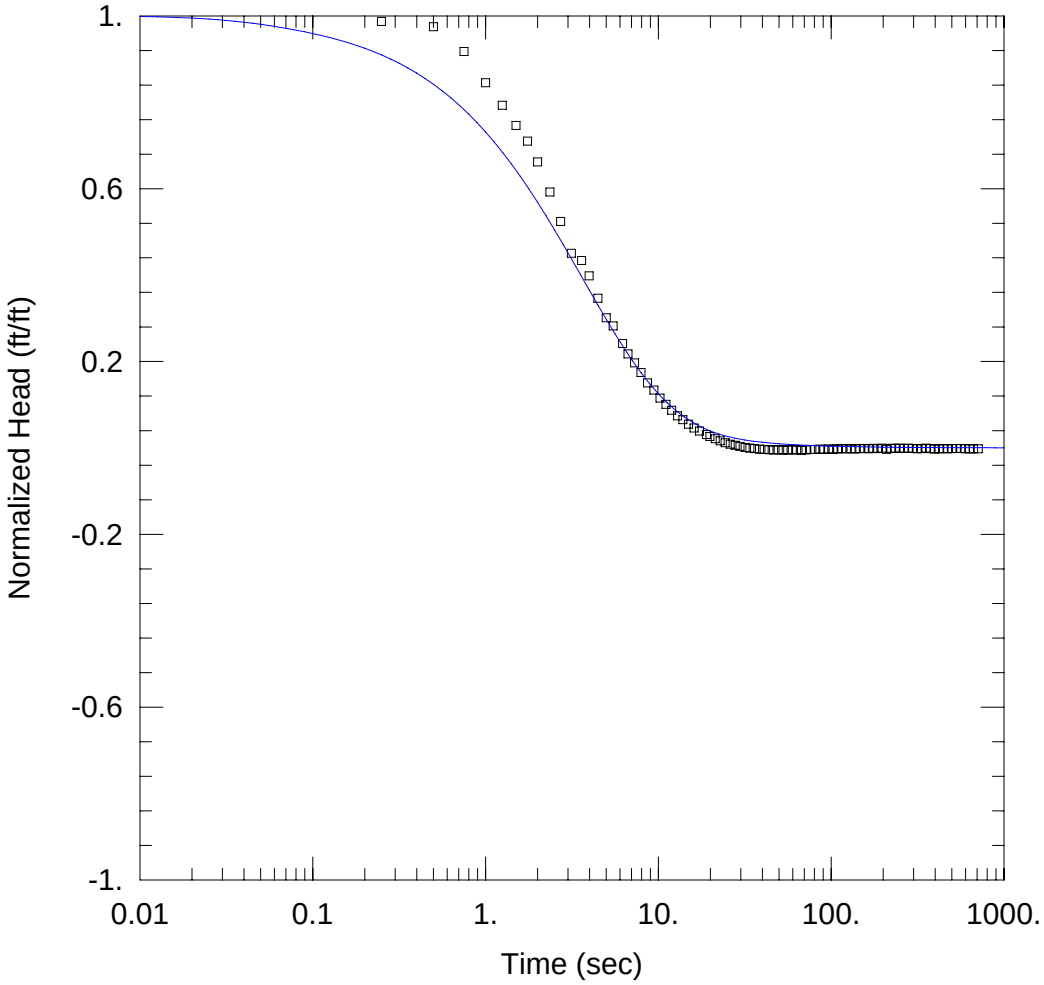
WELL DATA (KAFB106096)

Initial Displacement: 2.381 ft
Total Well Penetration Depth: 102. ft
Casing Radius: 0.198 ft
Static Water Column Height: 107. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 173.2 ft/day
y0 = 1.737 ft



QC_KAFB106096P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106096P1-BZ.aqt
Date: 10/06/11 Time: 10:50:47

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.001

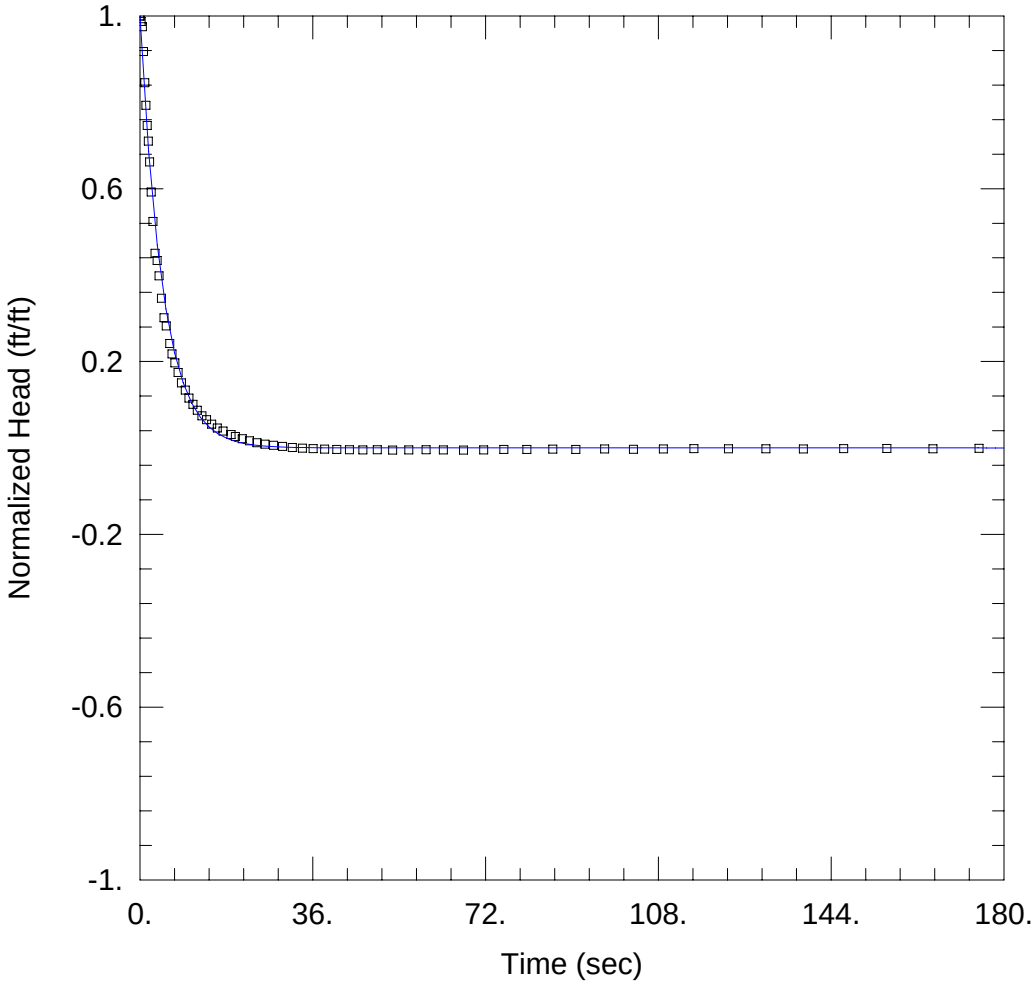
WELL DATA (KAFB106096)

Initial Displacement: 2.381 ft
Total Well Penetration Depth: 102. ft
Casing Radius: 0.198 ft
Static Water Column Height: 107. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 133.1 ft/day
Kz/Kr = 0.001
Ss = 2.326E-5 ft^{-1}
Le = 1. ft



QC_KAFB106096P1

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106096P1-SG.aqt
Date: 10/06/11 Time: 11:05:33

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.001

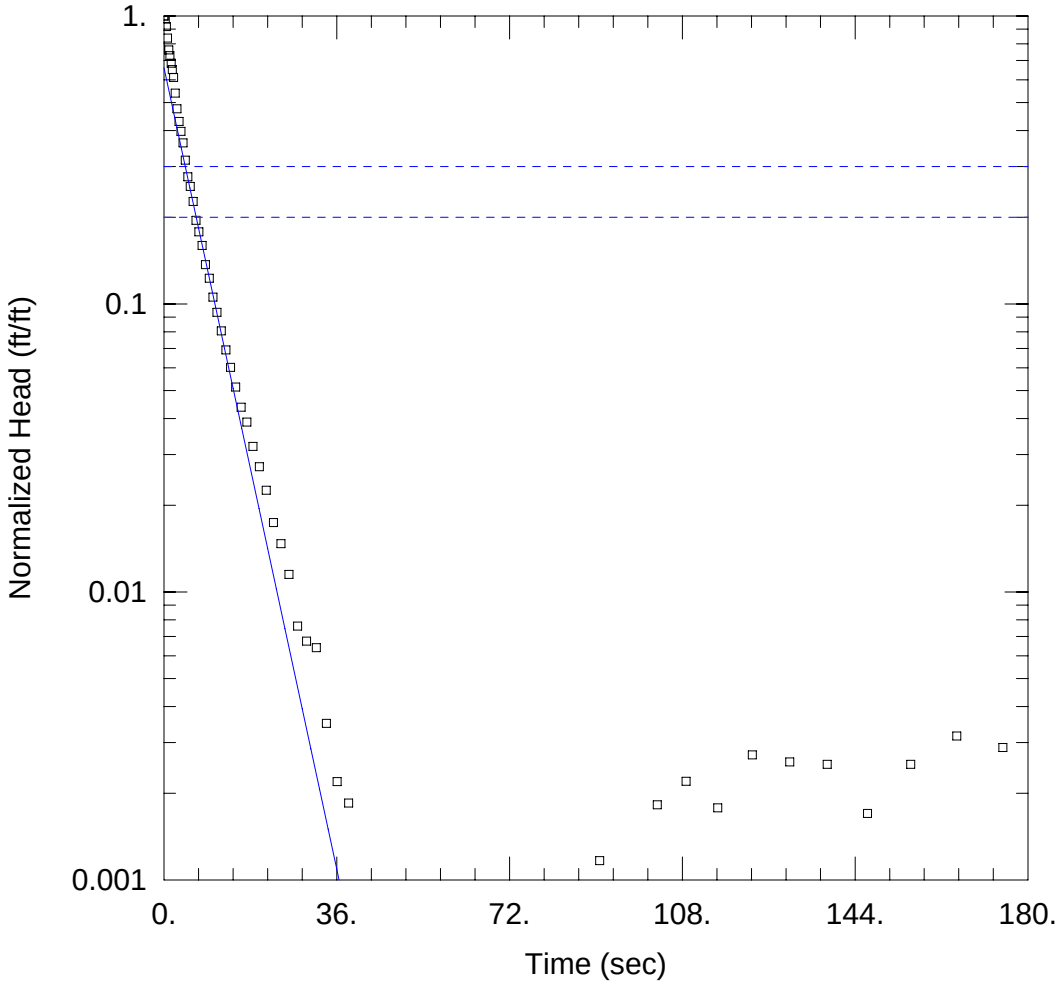
WELL DATA (KAFB106096)

Initial Displacement: 2.381 ft
Total Well Penetration Depth: 102. ft
Casing Radius: 0.198 ft
Static Water Column Height: 107. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 199.9 ft/day
Le = 1. ft



QC_KAFB106096P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106096P2-BR.aqt
Date: 10/06/11 Time: 11:10:30

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.0001

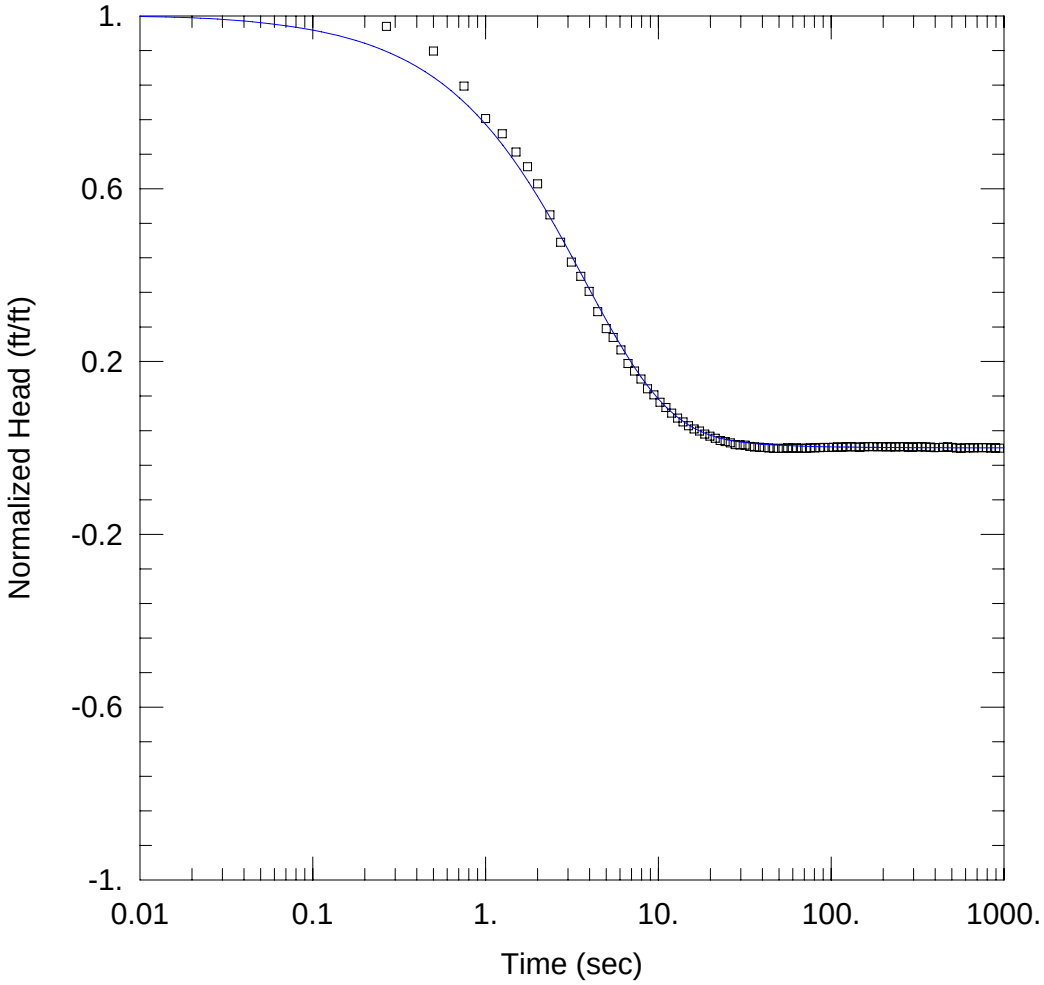
WELL DATA (KAFB106096)

Initial Displacement: 2.404 ft
Total Well Penetration Depth: 102. ft
Casing Radius: 0.198 ft
Static Water Column Height: 107. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 193.3 ft/day
y0 = 1.587 ft



QC_KAFB106096P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106096P2-BZ.aqt
Date: 10/06/11 Time: 11:09:24

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.0001

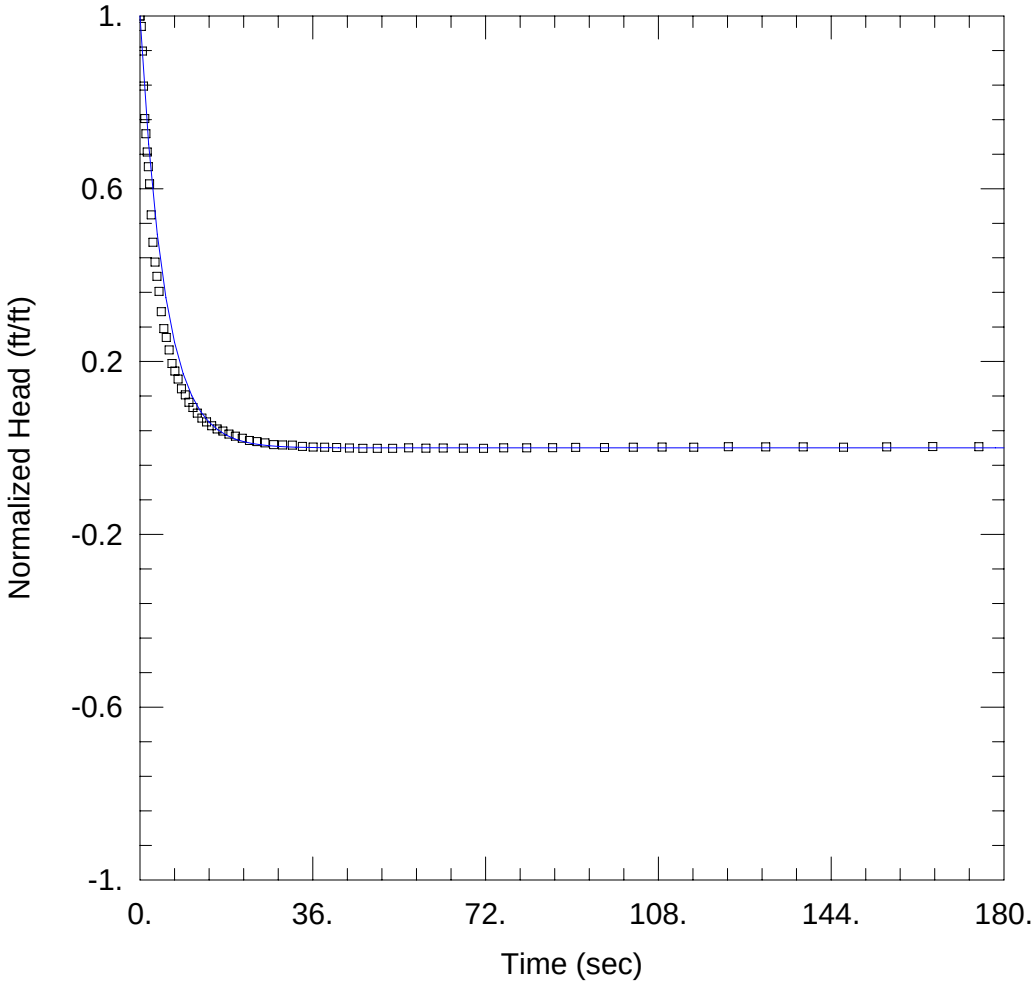
WELL DATA (KAFB106096)

Initial Displacement: 2.404 ft
Total Well Penetration Depth: 102. ft
Casing Radius: 0.198 ft
Static Water Column Height: 107. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 186.2 ft/day
Kz/Kr = 0.0001
Ss = 6.188E-7 ft^{-1}
Le = 1. ft



QC_KAFB106096P2

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106096P2-SG.aqt
Date: 10/07/11 Time: 08:38:51

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.001

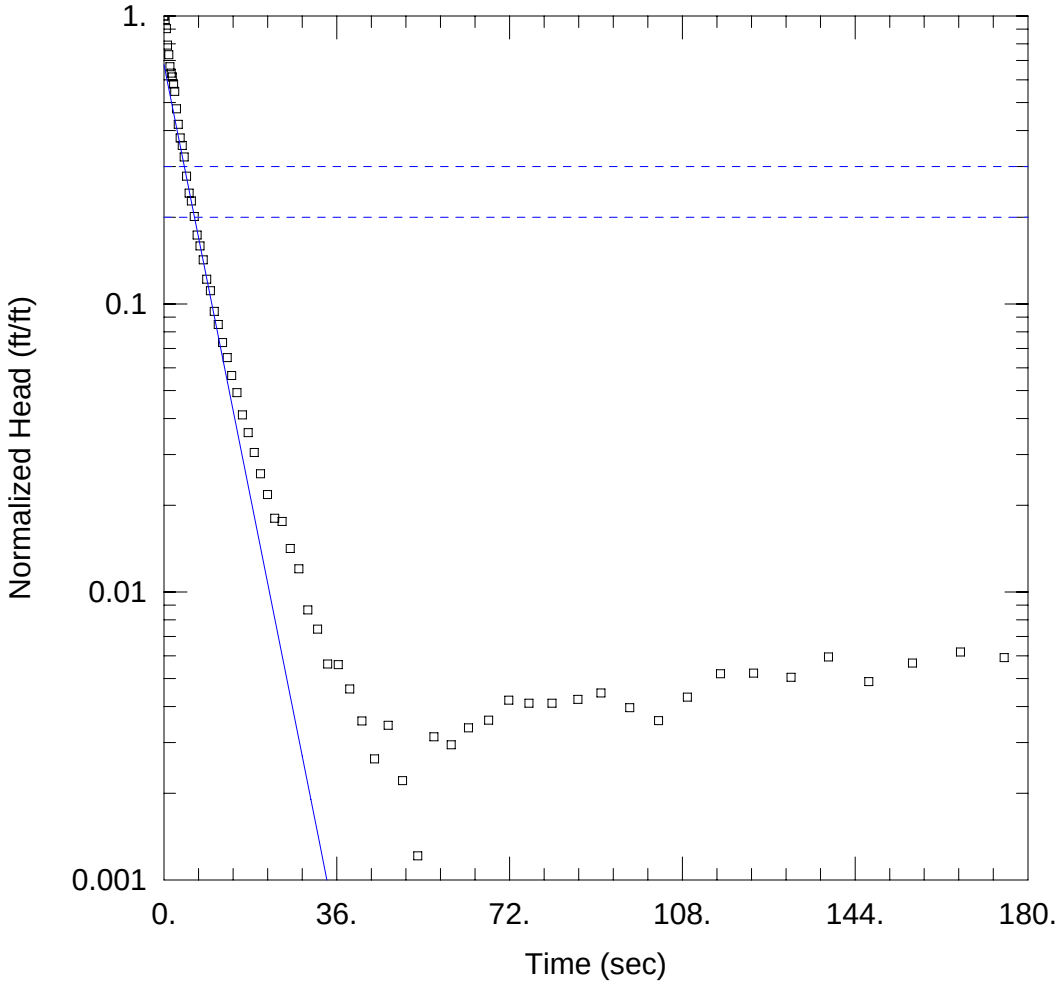
WELL DATA (KAFB106096)

Initial Displacement: 2.404 ft
Total Well Penetration Depth: 102. ft
Casing Radius: 0.198 ft
Static Water Column Height: 107. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 186.2 ft/day
Le = 1. ft



QC_KAFB106096P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106096P3-BR.aqt
Date: 10/06/11 Time: 11:12:52

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.0001

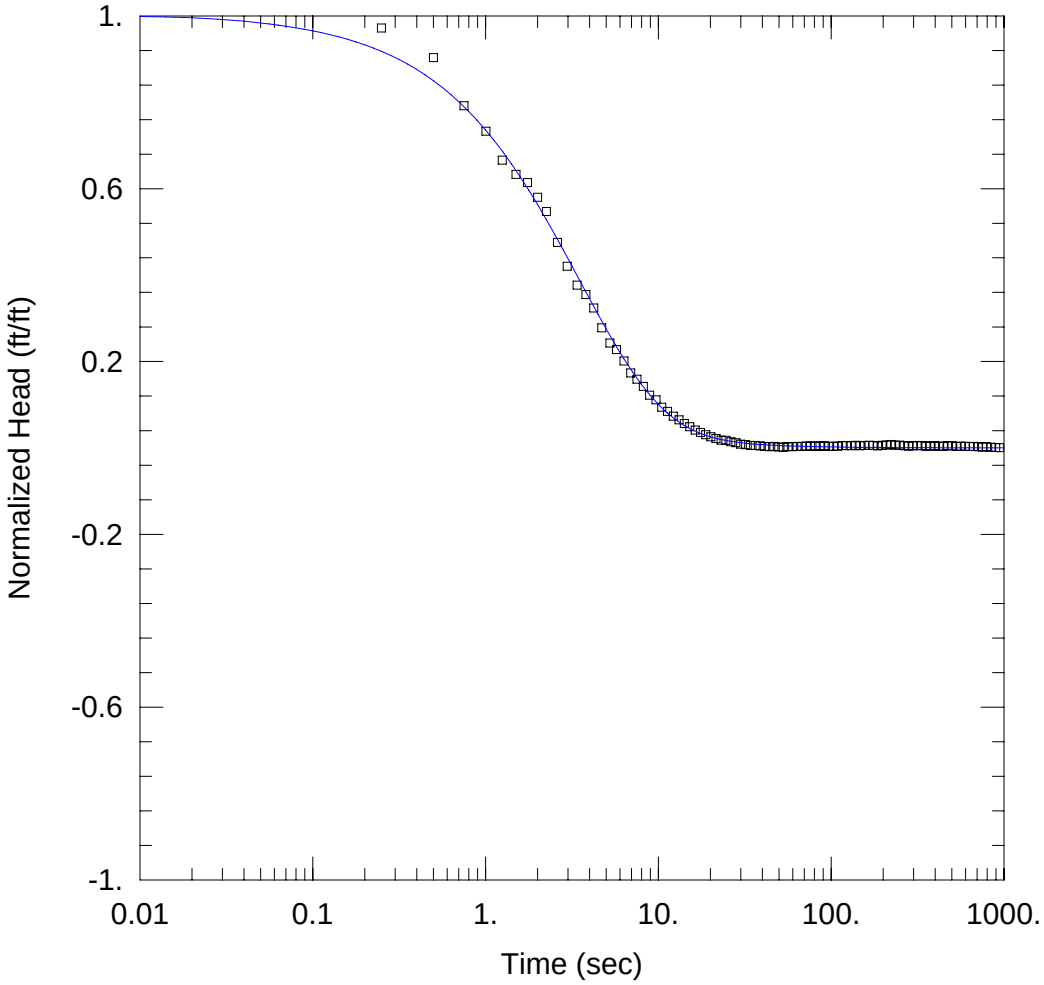
WELL DATA (KAFB106096)

Initial Displacement: 2.393 ft
Total Well Penetration Depth: 102. ft
Casing Radius: 0.198 ft
Static Water Column Height: 107. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 208.5 ft/day
y0 = 1.619 ft



QC_KAFB106096P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106096P3-BZ.aqt
Date: 10/06/11 Time: 11:14:14

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.0001

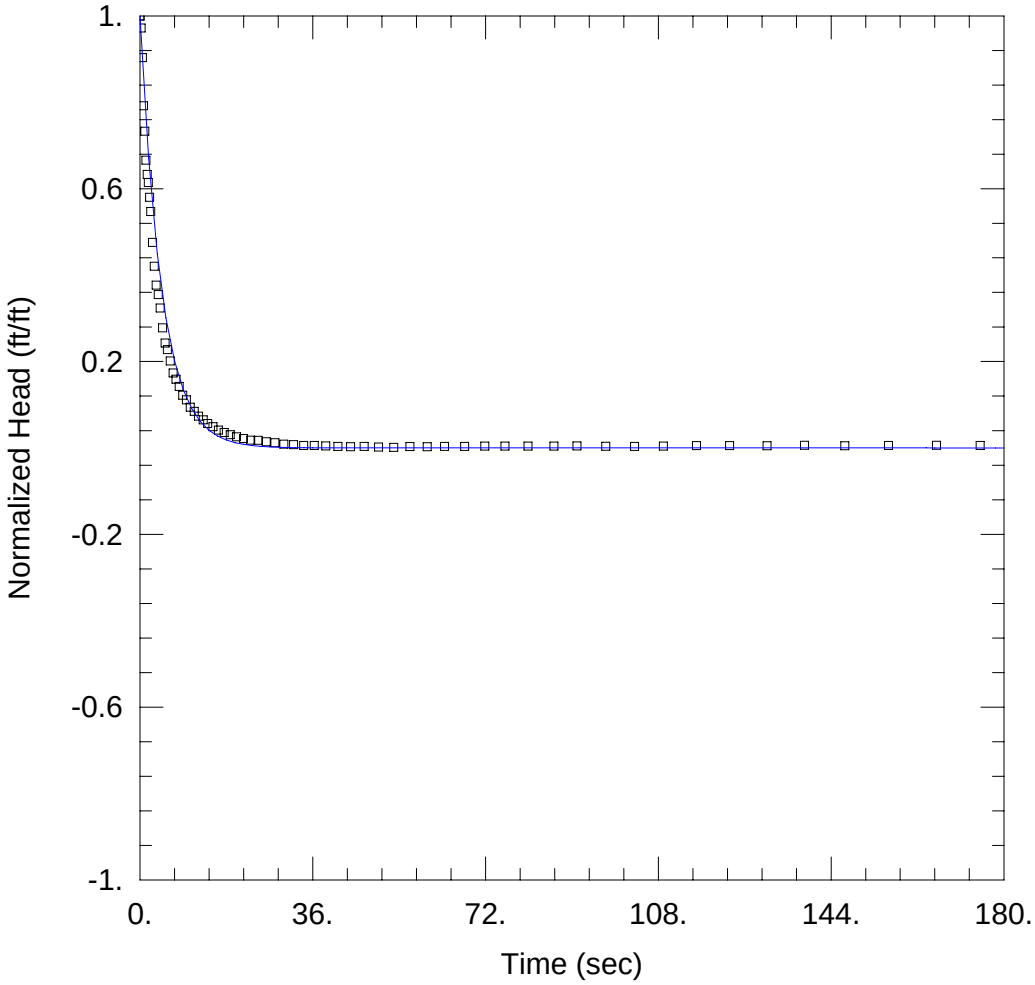
WELL DATA (KAFB106096)

Initial Displacement: 2.393 ft
Total Well Penetration Depth: 102. ft
Casing Radius: 0.198 ft
Static Water Column Height: 107. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 199.1 ft/day
Kz/Kr = 0.0001
Ss = 6.188E-7 ft^{-1}
Le = 1. ft



QC_KAFB106096P3

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106096P3-SG.aqt
Date: 10/06/11 Time: 11:15:31

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.0001

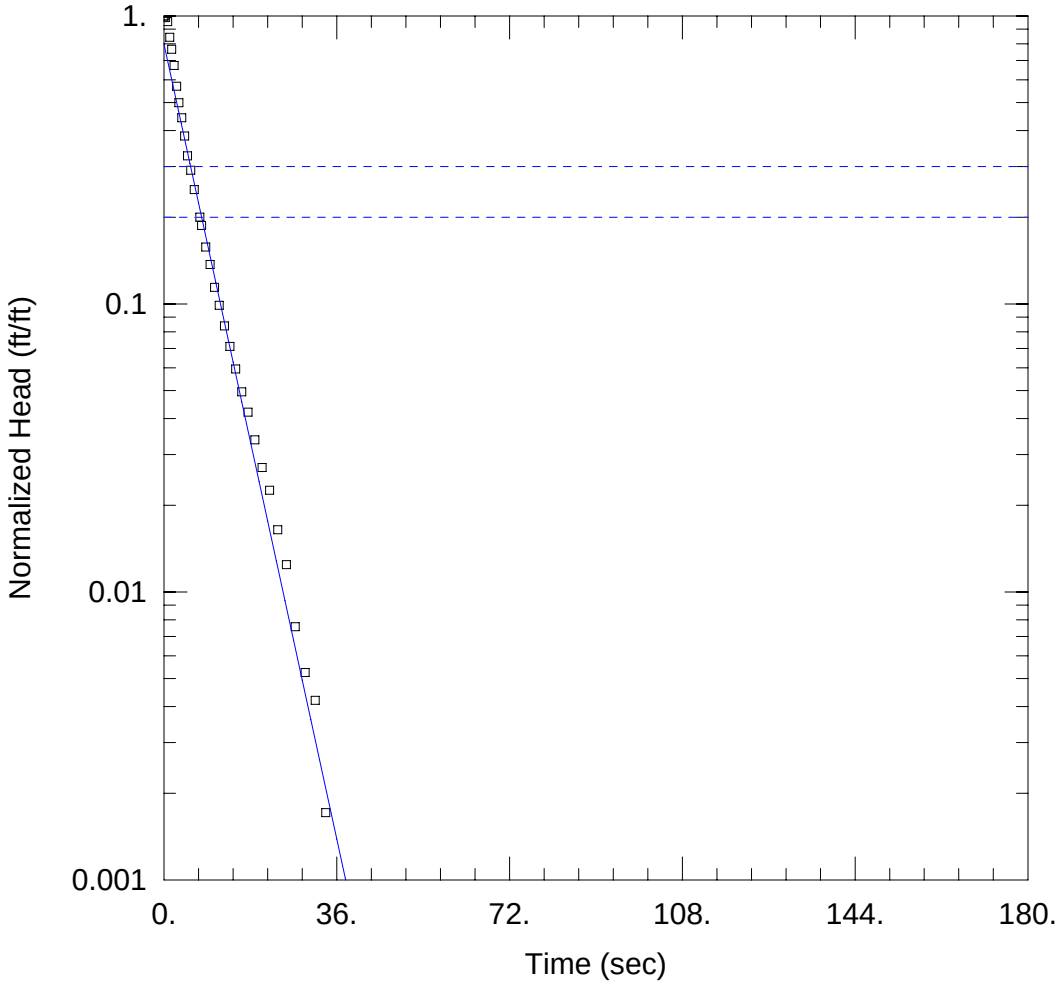
WELL DATA (KAFB106096)

Initial Displacement: 2.393 ft
Total Well Penetration Depth: 102. ft
Casing Radius: 0.198 ft
Static Water Column Height: 107. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 241.9 ft/day
Le = 1. ft



QC_KAFB106096P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106096P4-BR.aqt
Date: 10/06/11 Time: 11:19:50

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.0001

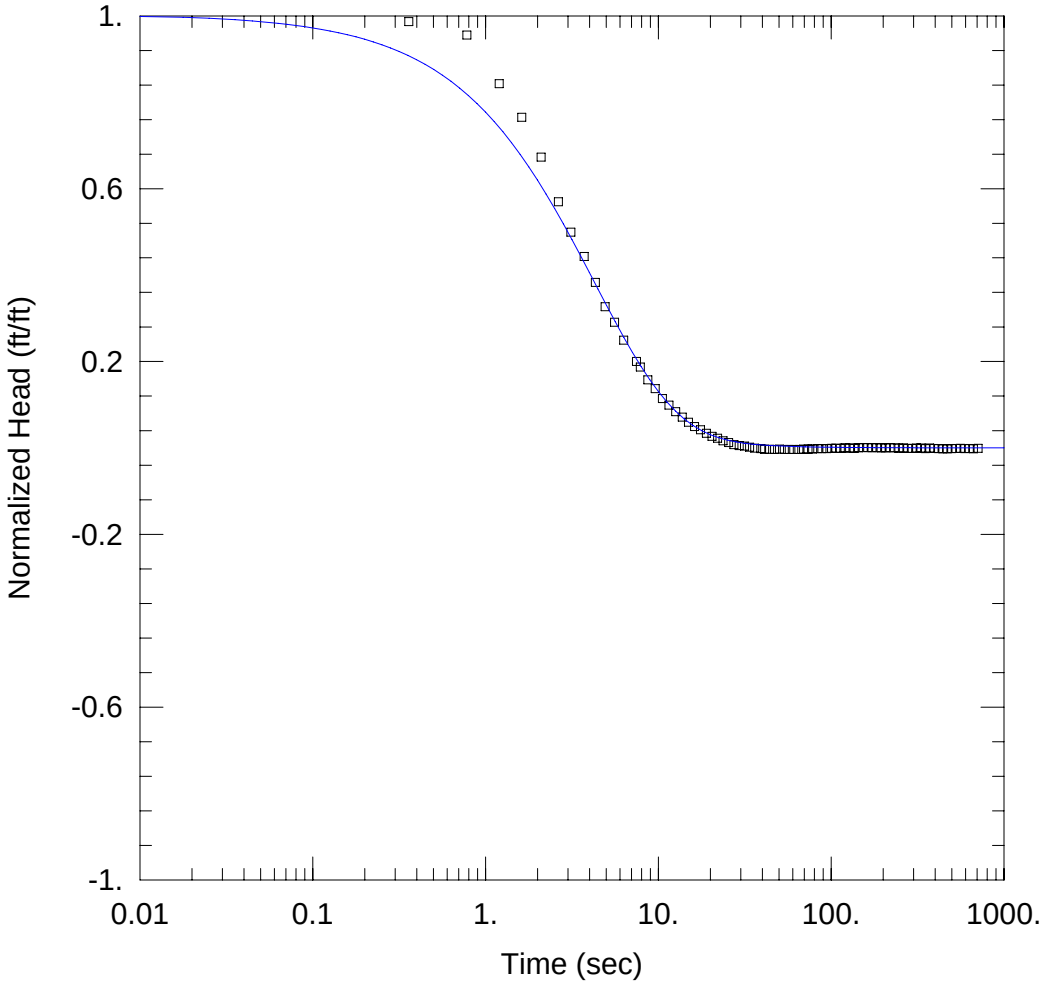
WELL DATA (KAFB106096)

Initial Displacement: 2.422 ft
Total Well Penetration Depth: 102. ft
Casing Radius: 0.198 ft
Static Water Column Height: 107. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 191.8 ft/day
y0 = 1.934 ft



QC_KAFB106096P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106096P4-BZ.aqt
Date: 10/06/11 Time: 11:18:38

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.0001

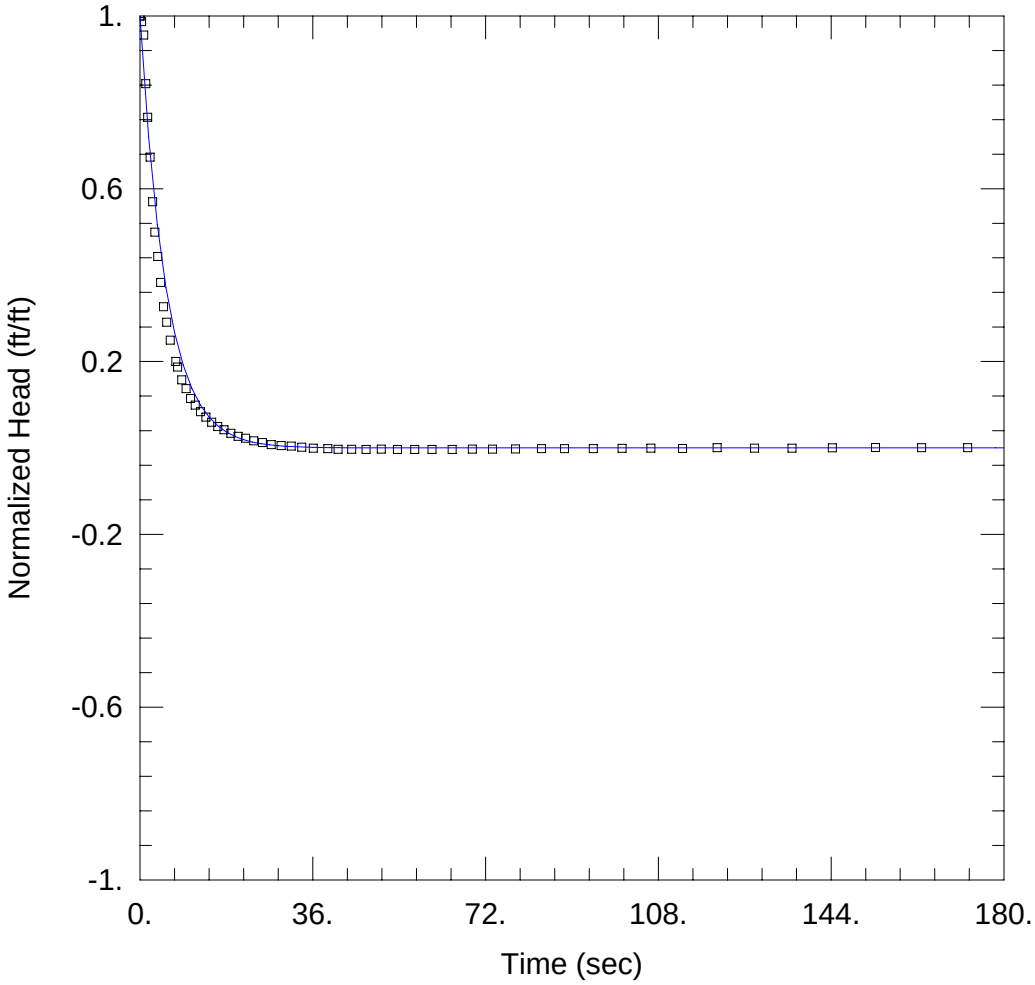
WELL DATA (KAFB106096)

Initial Displacement: 2.422 ft
Total Well Penetration Depth: 102. ft
Casing Radius: 0.198 ft
Static Water Column Height: 107. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 190.4 ft/day
Kz/Kr = 0.0001
Ss = 7.79E-8 ft^{-1}
Le = 1. ft



QC_KAFB106096P4

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106096P4-SG.aqt
Date: 10/06/11 Time: 11:17:15

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.0001

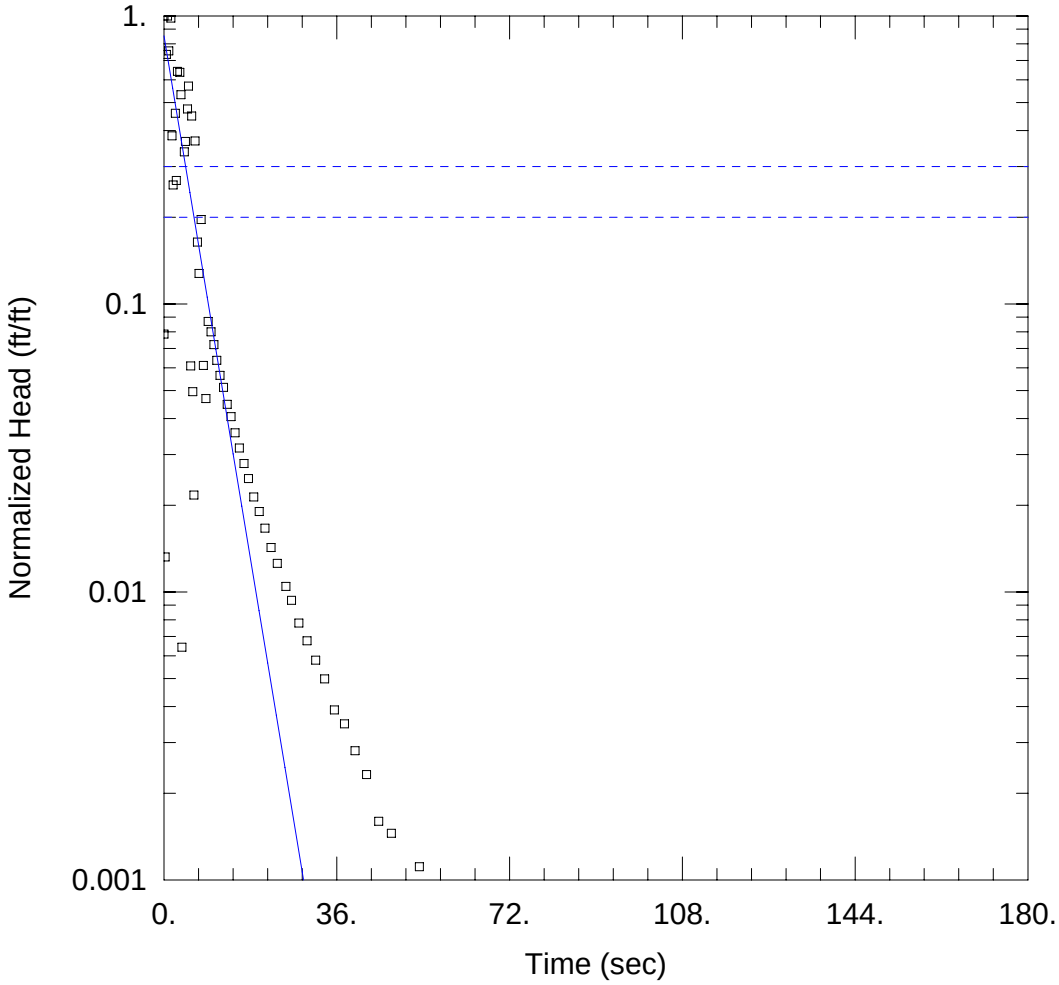
WELL DATA (KAFB106096)

Initial Displacement: 2.422 ft
Total Well Penetration Depth: 102. ft
Casing Radius: 0.198 ft
Static Water Column Height: 107. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 199.4 ft/day
Le = 1. ft



QC_KAFB106096IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106096IN-BR.aqt
Date: 10/06/11 Time: 11:22:46

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.0001

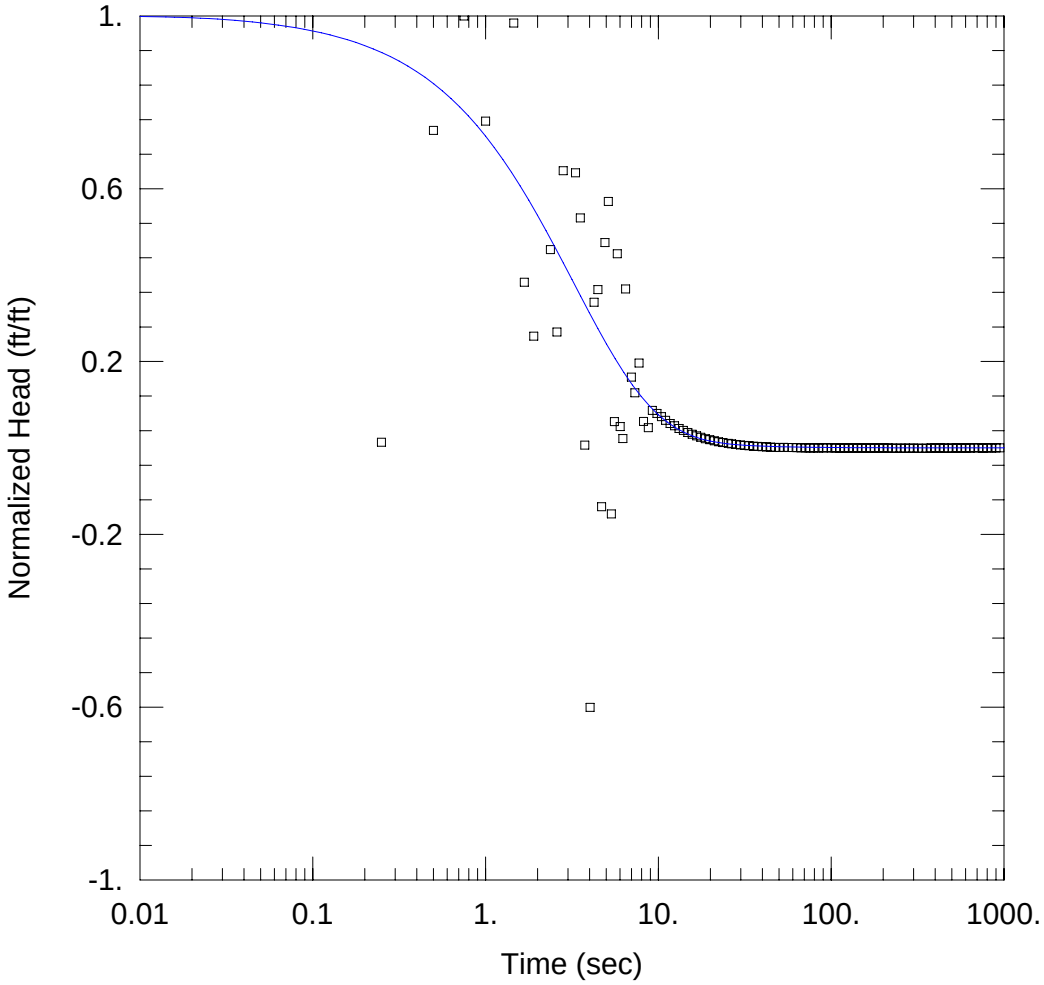
WELL DATA (KAFB106096)

Initial Displacement: 8.487 ft
Total Well Penetration Depth: 102. ft
Casing Radius: 0.198 ft
Static Water Column Height: 107. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 252.2 ft/day
y0 = 7.241 ft



QC_KAFB106096IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106096IN-BZ.aqt
Date: 10/06/11 Time: 11:23:39

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.0001

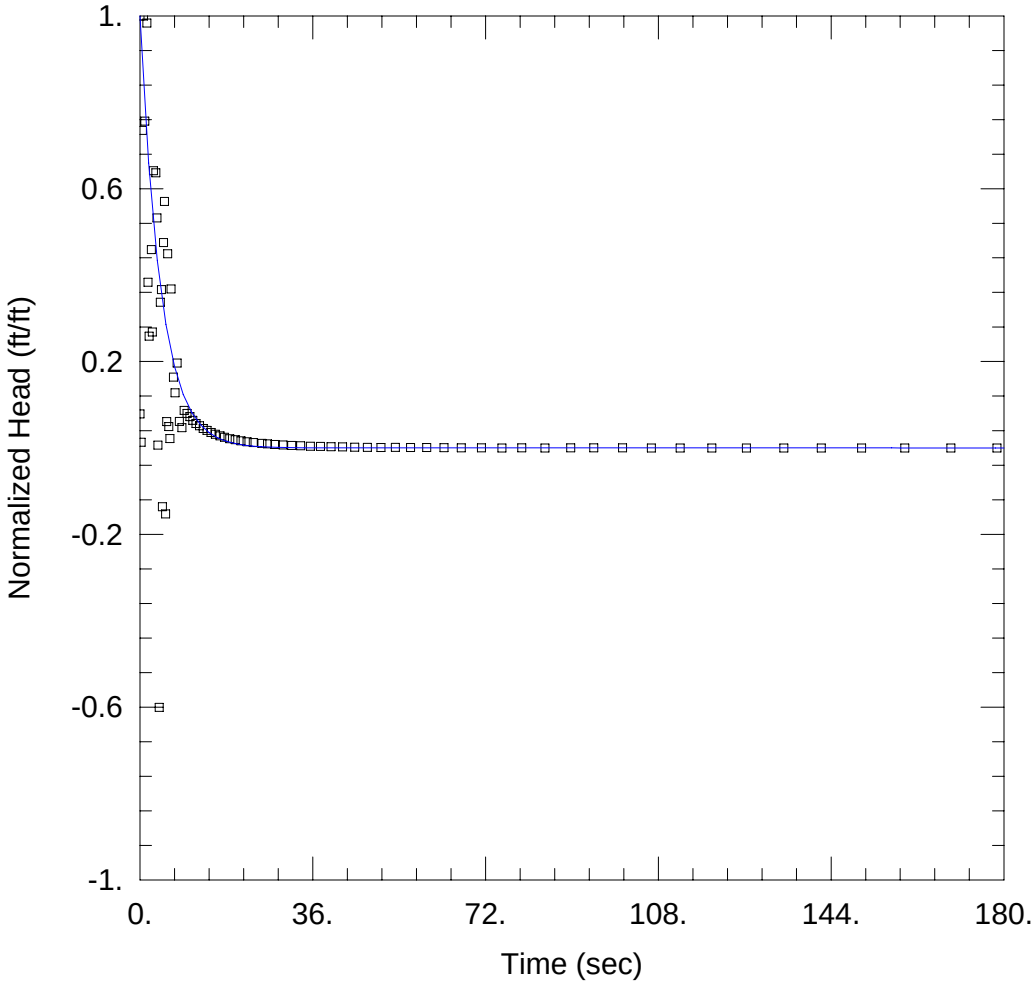
WELL DATA (KAFB106096)

Initial Displacement: 8.487 ft
Total Well Penetration Depth: 102. ft
Casing Radius: 0.198 ft
Static Water Column Height: 107. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 252.2 ft/day
Kz/Kr = 0.0001
Ss = 7.79E-8 ft^{-1}
Le = 1. ft



QC_KAFB106096IN

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106096IN-SG.aqt
Date: 10/06/11 Time: 11:25:11

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.0001

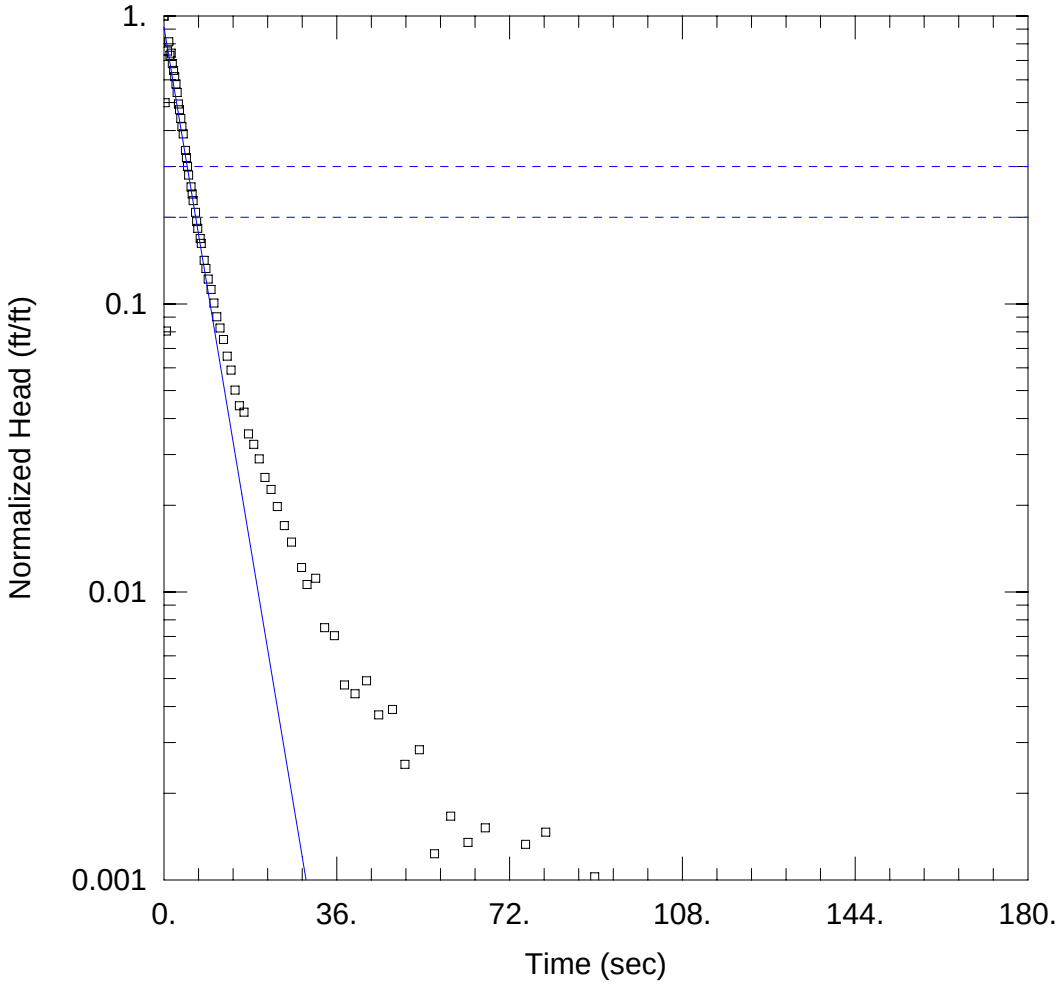
WELL DATA (KAFB106096)

Initial Displacement: 8.487 ft
Total Well Penetration Depth: 102. ft
Casing Radius: 0.198 ft
Static Water Column Height: 107. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 252.2 ft/day
Le = 1. ft



QC_KAFB106096OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106096OUT-BR.aqt
Date: 10/06/11 Time: 11:30:51

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.0001

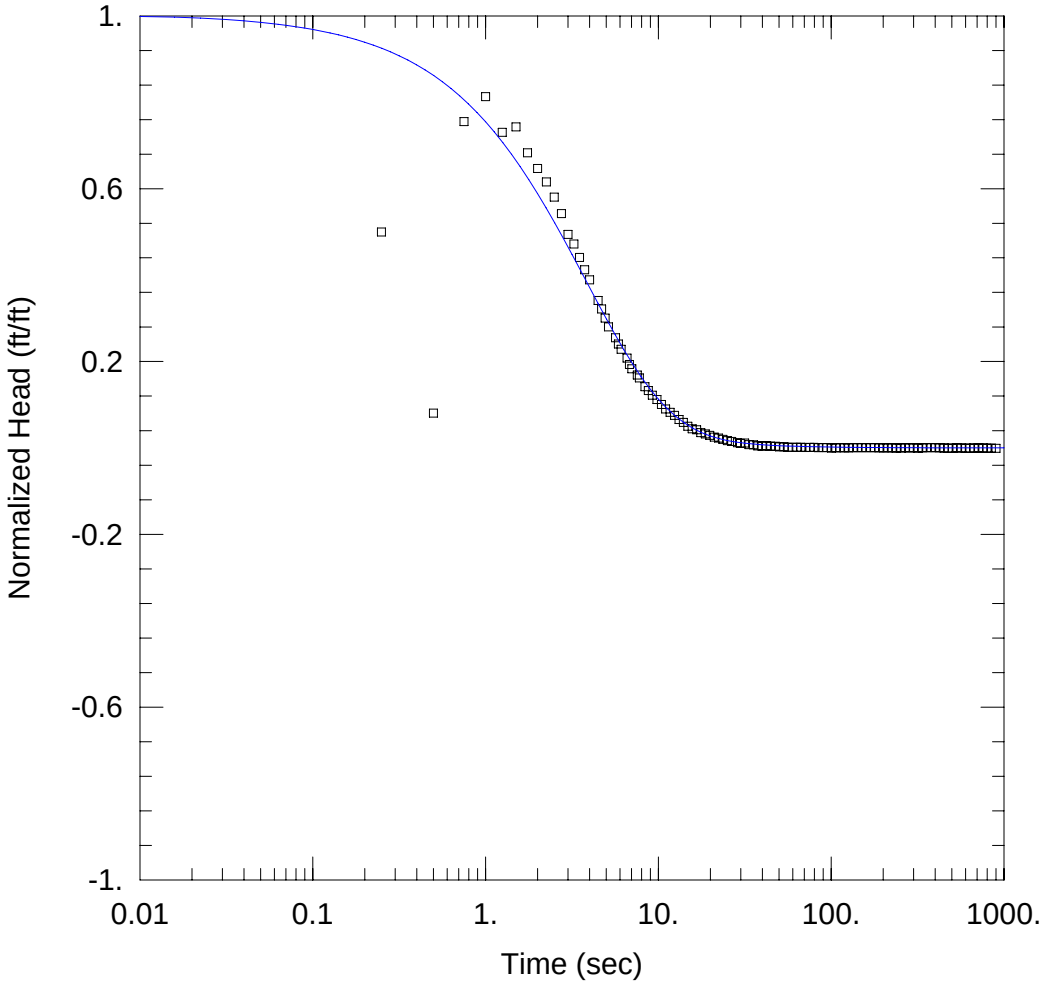
WELL DATA (KAFB106096)

Initial Displacement: 5.648 ft
Total Well Penetration Depth: 102. ft
Casing Radius: 0.198 ft
Static Water Column Height: 107. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 250.2 ft/day
y0 = 5.161 ft



QC_KAFB106096OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106096OUT-BZ.aqt
Date: 10/06/11 Time: 11:29:34

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.0001

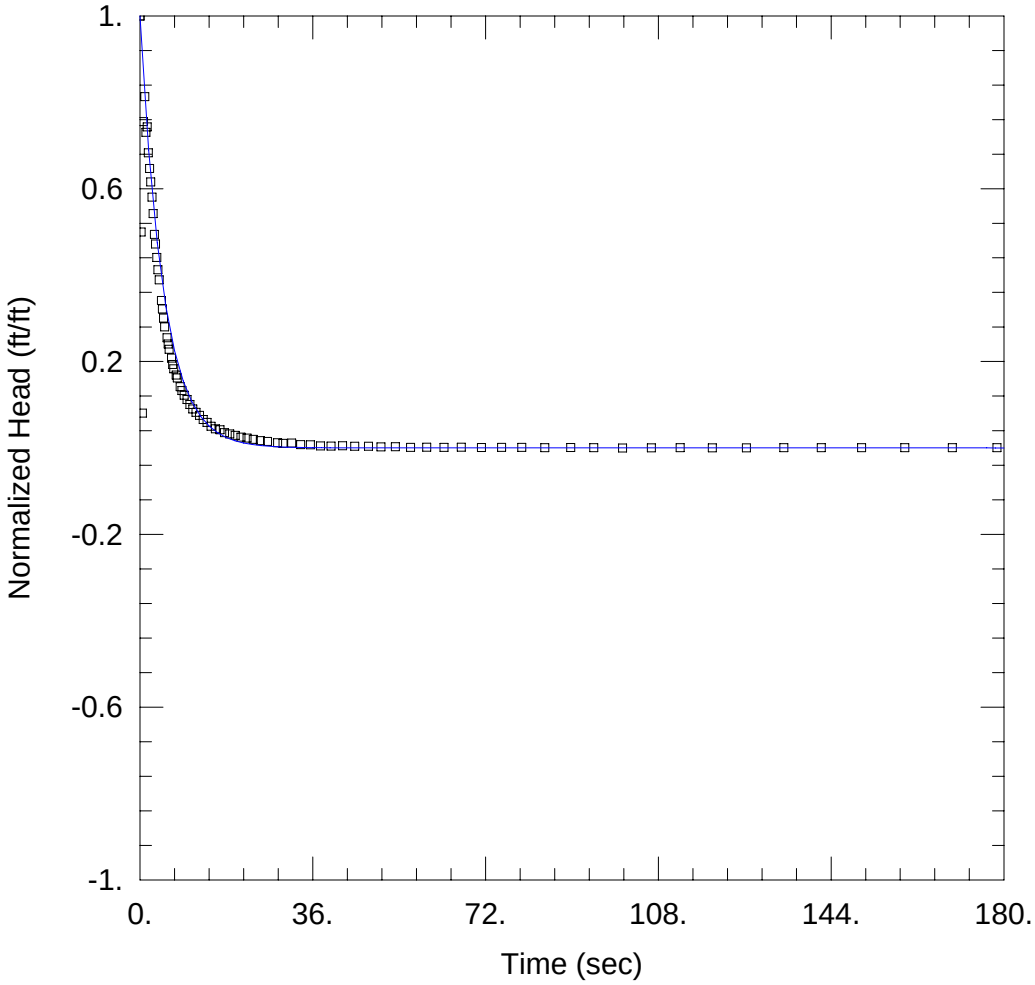
WELL DATA (KAFB106096)

Initial Displacement: 5.648 ft
Total Well Penetration Depth: 102. ft
Casing Radius: 0.198 ft
Static Water Column Height: 107. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 196.3 ft/day
Kz/Kr = 0.0001
Ss = 2.435E-7 ft^{-1}
Le = 1. ft



QC_KAFB106096OUT

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV Pro 4.0\Kirtland\QC_KAFB106096OUT-SG.aqt
Date: 10/06/11 Time: 11:27:17

PROJECT INFORMATION

Company: Shaw
Project: 140705
Location: KAFB
Test Well: KAFB 106096
Test Date: 10/3/11

AQUIFER DATA

Saturated Thickness: 43. ft
Anisotropy Ratio (Kz/Kr): 0.0001

WELL DATA (KAFB106096)

Initial Displacement: 5.648 ft
Total Well Penetration Depth: 102. ft
Casing Radius: 0.198 ft
Static Water Column Height: 107. ft
Screen Length: 15. ft
Well Radius: 0.198 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 225.3 ft/day
Le = 1. ft