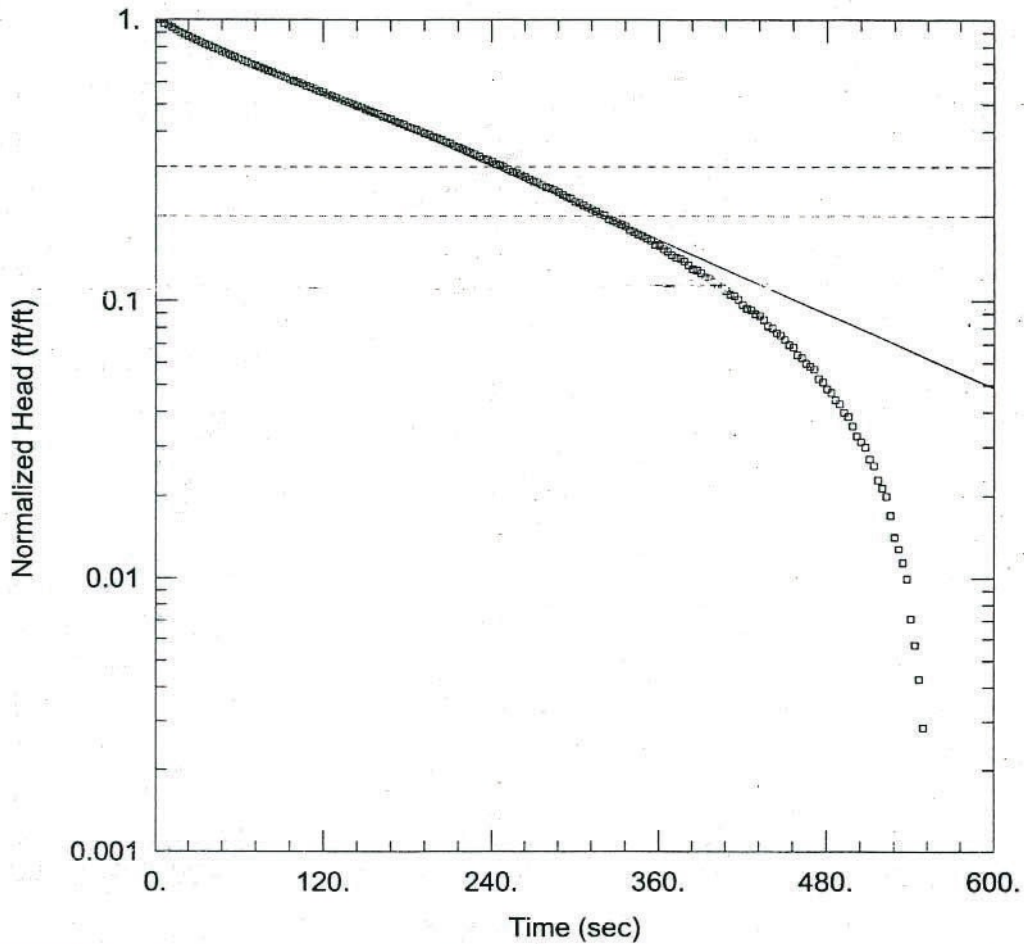


APPENDIX I

Slug Test Results



WELL TEST ANALYSIS

Data Set: T:\ESEE MAJOR PROJECTS\PROJECTS\WANSLEY\2006\slugtests\GS3in.aqt
 Date: 12/07/06 Time: 13:00:08

PROJECT INFORMATION

Company: SCS
 Client: GPC
 Project: 3186DE
 Location: Plant Wansley
 Test Well: GS27in
 Test Date: 11/8/2006

AQUIFER DATA

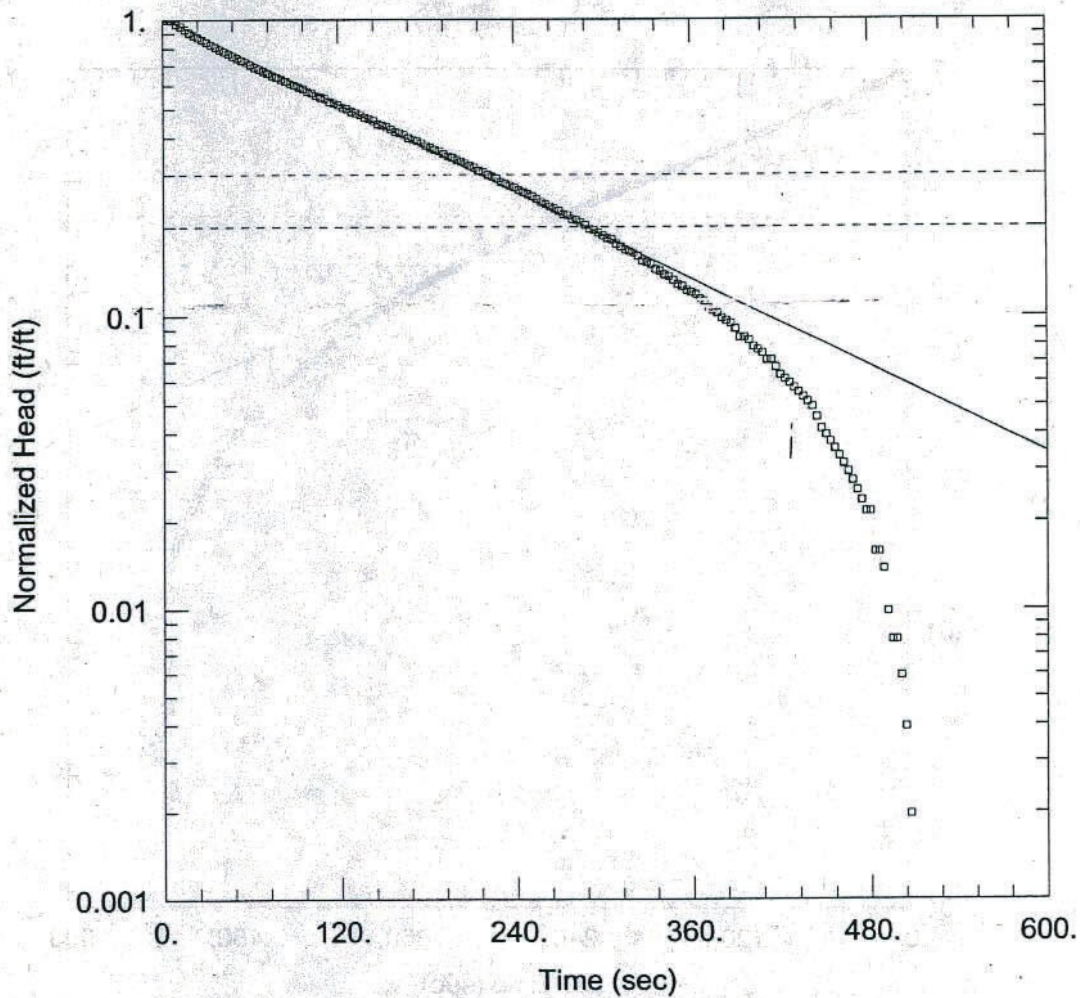
Saturated Thickness: 23.2 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (GS3in)

Initial Displacement: 1.622 ft Static Water Column Height: 23.2 ft
 Total Well Penetration Depth: 22.7 ft Screen Length: 9. ft
 Casing Radius: 0.0833 ft Wellbore Radius: 0.3333 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.0001681 cm/sec $y_0 =$ 1.644 ft



WELL TEST ANALYSIS

Data Set: T:\ESEE MAJOR PROJECTS\PROJECTS\WANSLEY\2006\slugtests\GS3out.aqt
 Date: 12/07/06 Time: 13:02:30

PROJECT INFORMATION

Company: SCS
 Client: GPC
 Project: 3186DE
 Location: Plant Wansley
 Test Well: GS27in
 Test Date: 11/8/2006

AQUIFER DATA

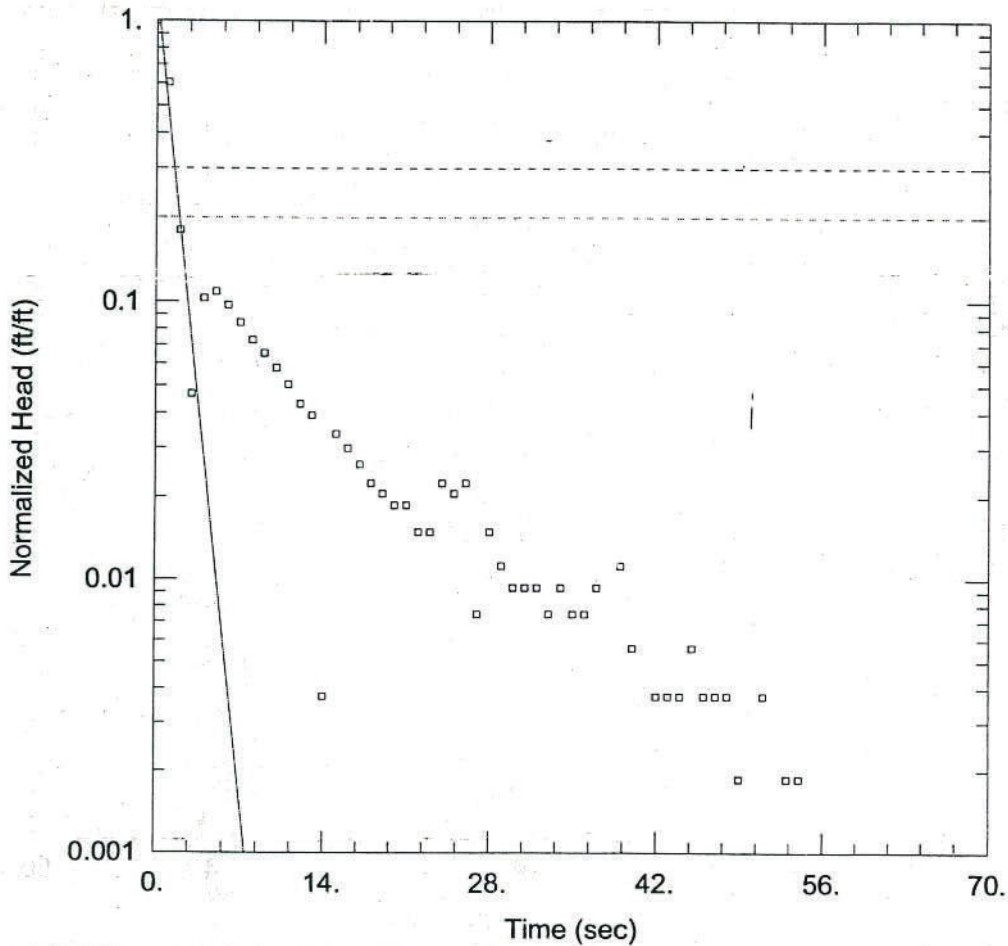
Saturated Thickness: 23.2 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (GS3out)

Initial Displacement: 1.173 ft Static Water Column Height: 23.2 ft
 Total Well Penetration Depth: 22.7 ft Screen Length: 9. ft
 Casing Radius: 0.0833 ft Wellbore Radius: 0.333 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice
 K = 0.0001879 cm/sec y0 = 1.199 ft



WELL TEST ANALYSIS

Data Set: T:\ESEE MAJOR PROJECTS\PROJECTS\WANSLEY\2006\slugtests\GS4in.aqt
 Date: 12/08/06 Time: 10:12:47

PROJECT INFORMATION

Company: SCS
 Client: GPC
 Project: 3186DE
 Location: Plant Wansley
 Test Well: GS27in
 Test Date: 11/8/2006

AQUIFER DATA

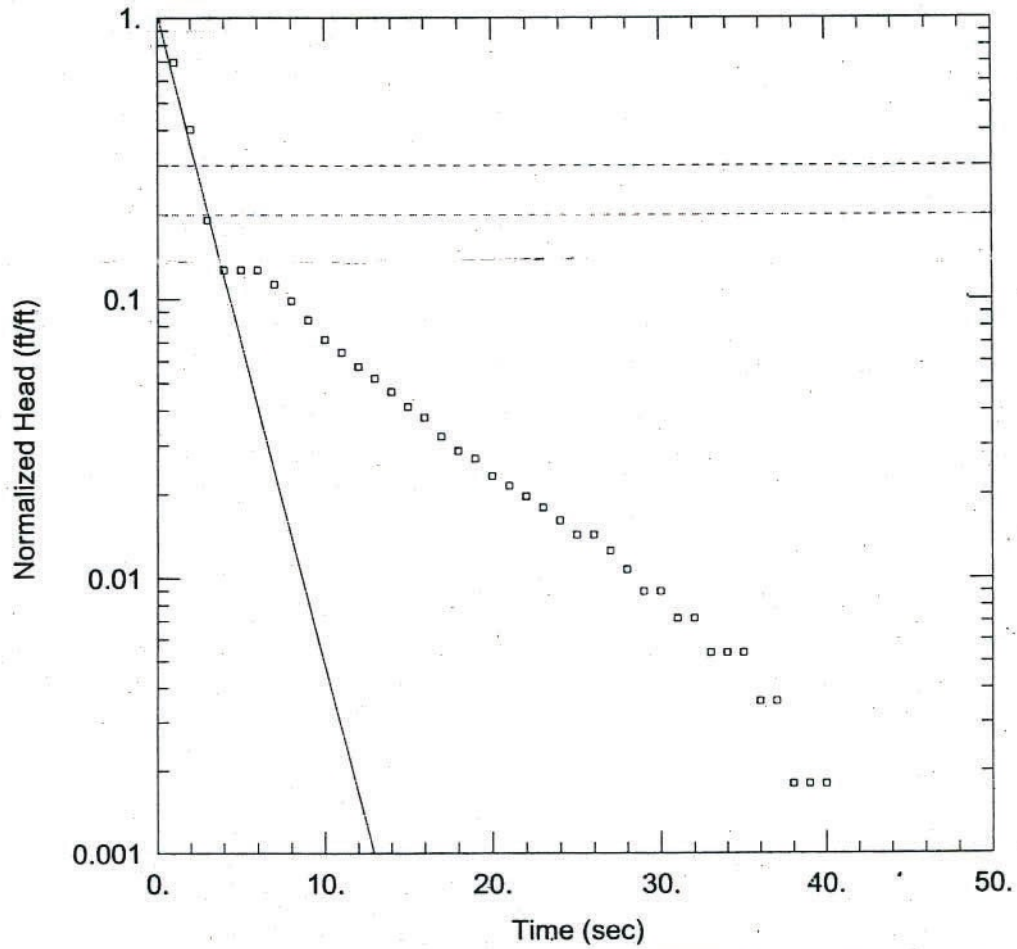
Saturated Thickness: 11.99 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (GS4in)

Initial Displacement: 0.535 ft Static Water Column Height: 11.99 ft
 Total Well Penetration Depth: 11.49 ft Screen Length: 9. ft
 Casing Radius: 0.0833 ft Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice
 K = 0.03621 cm/sec y0 = 0.6561 ft



WELL TEST ANALYSIS

Data Set: T:\ESEE MAJOR PROJECTS\PROJECTS\WANSLEY\2006\slugtests\GS4out.aqt
 Date: 12/05/06 Time: 14:22:20

PROJECT INFORMATION

Company: SCS
 Client: GPC
 Project: 3186DE
 Location: Plant Wansley
 Test Well: GS27in
 Test Date: 11/8/2006

AQUIFER DATA

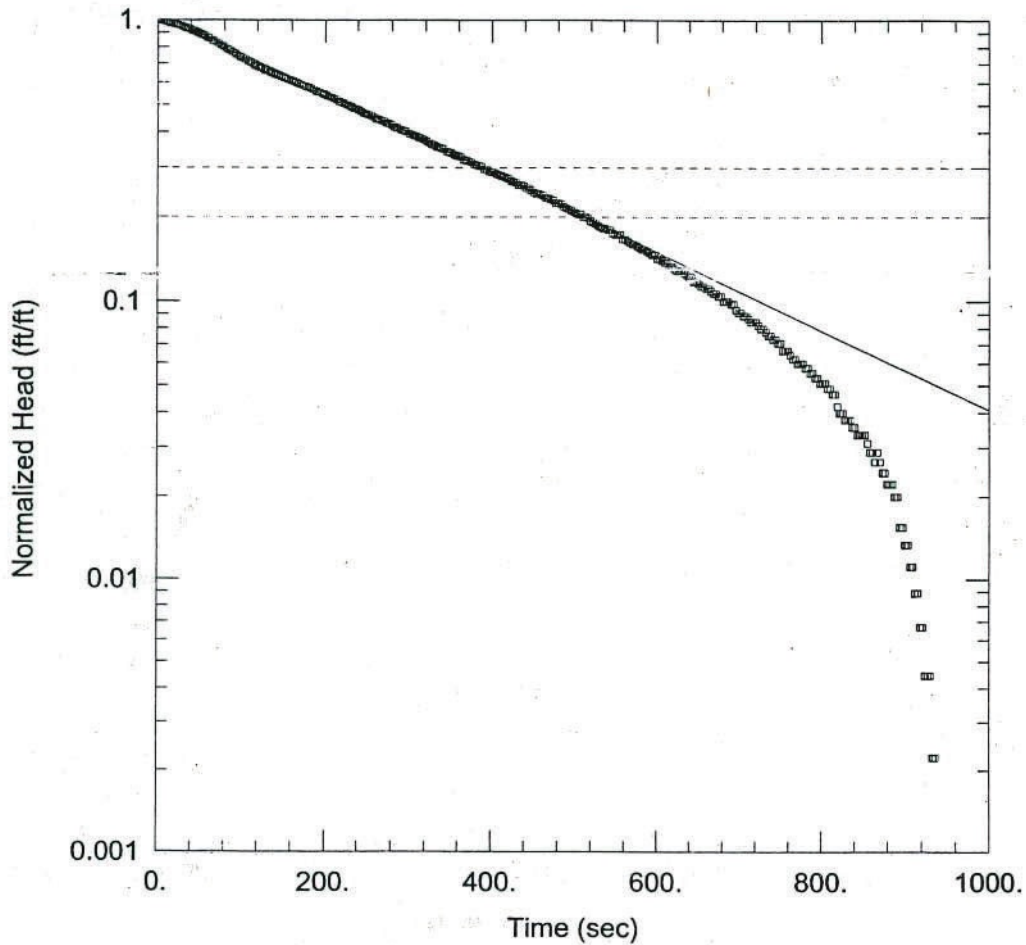
Saturated Thickness: 11.99 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (GS4out)

Initial Displacement: 0.558 ft Static Water Column Height: 11.99 ft
 Total Well Penetration Depth: 11.49 ft Screen Length: 9. ft
 Casing Radius: 0.0833 ft Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.02057 cm/sec $y_0 = 0.5764$ ft



WELL TEST ANALYSIS

Data Set: T:\ESEE MAJOR PROJECTS\PROJECTS\WANSLEY\2006\slugtests\GS18in.aqt
 Date: 12/07/06 Time: 12:52:58

PROJECT INFORMATION

Company: SCS
 Client: GPC
 Project: 3186DE
 Location: Plant Wansley
 Test Well: GS27in
 Test Date: 11/8/2006

AQUIFER DATA

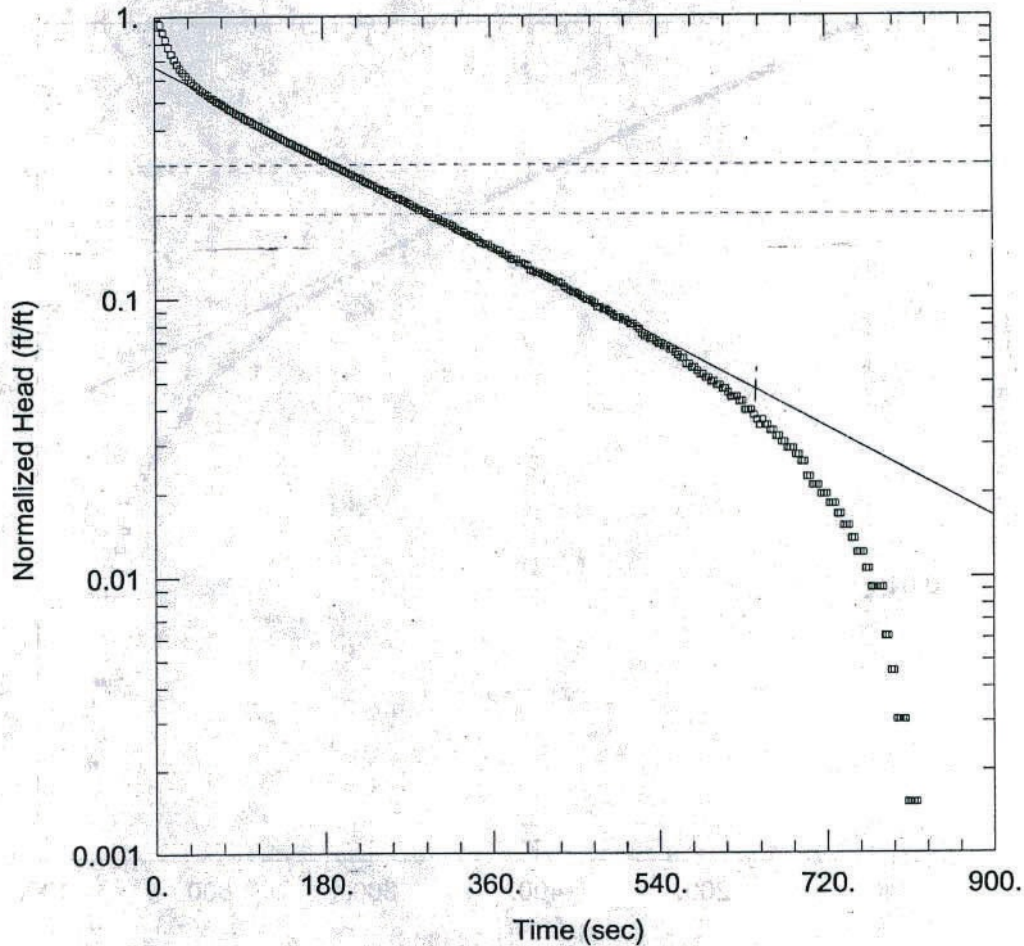
Saturated Thickness: 3.1 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (GS18in)

Initial Displacement: 1.04 ft Static Water Column Height: 3.1 ft
 Total Well Penetration Depth: 3.1 ft Screen Length: 3.1 ft
 Casing Radius: 0.0833 ft Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.0002672 cm/sec $y_0 =$ 1.099 ft



WELL TEST ANALYSIS

Data Set: T:\ESEE MAJOR PROJECTS\PROJECTS\WANSLEY\2006\slugtests\GS18out.aqt
 Date: 12/07/06 Time: 09:44:02

PROJECT INFORMATION

Company: SCS
 Client: GPC
 Project: 3186DE
 Location: Plant Wansley
 Test Well: GS27in
 Test Date: 11/8/2006

AQUIFER DATA

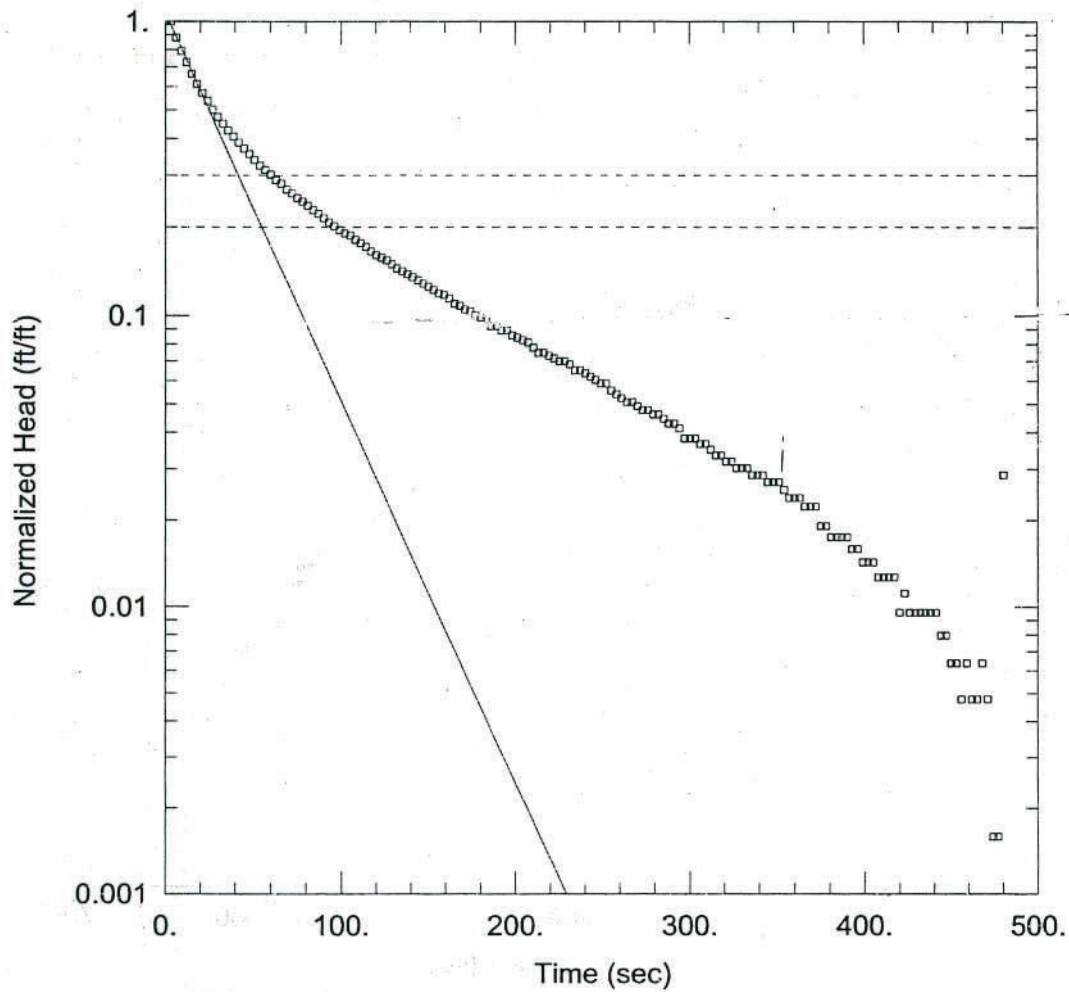
Saturated Thickness: 3.1 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (GS3out)

Initial Displacement: 1.515 ft Static Water Column Height: 18.73 ft
 Total Well Penetration Depth: 3.1 ft Screen Length: 3.1 ft
 Casing Radius: 0.0833 ft Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.0003378 cm/sec y0 = 1.012 ft



WELL TEST ANALYSIS

Data Set: T:\ESEE MAJOR PROJECTS\PROJECTS\WANSLEY2006\slugtests\GS21in.aqt
 Date: 12/07/06 Time: 12:55:33

PROJECT INFORMATION

Company: SCS
 Client: GPC
 Project: 3186DE
 Location: Plant Wansley
 Test Well: GS27in
 Test Date: 11/8/2006

AQUIFER DATA

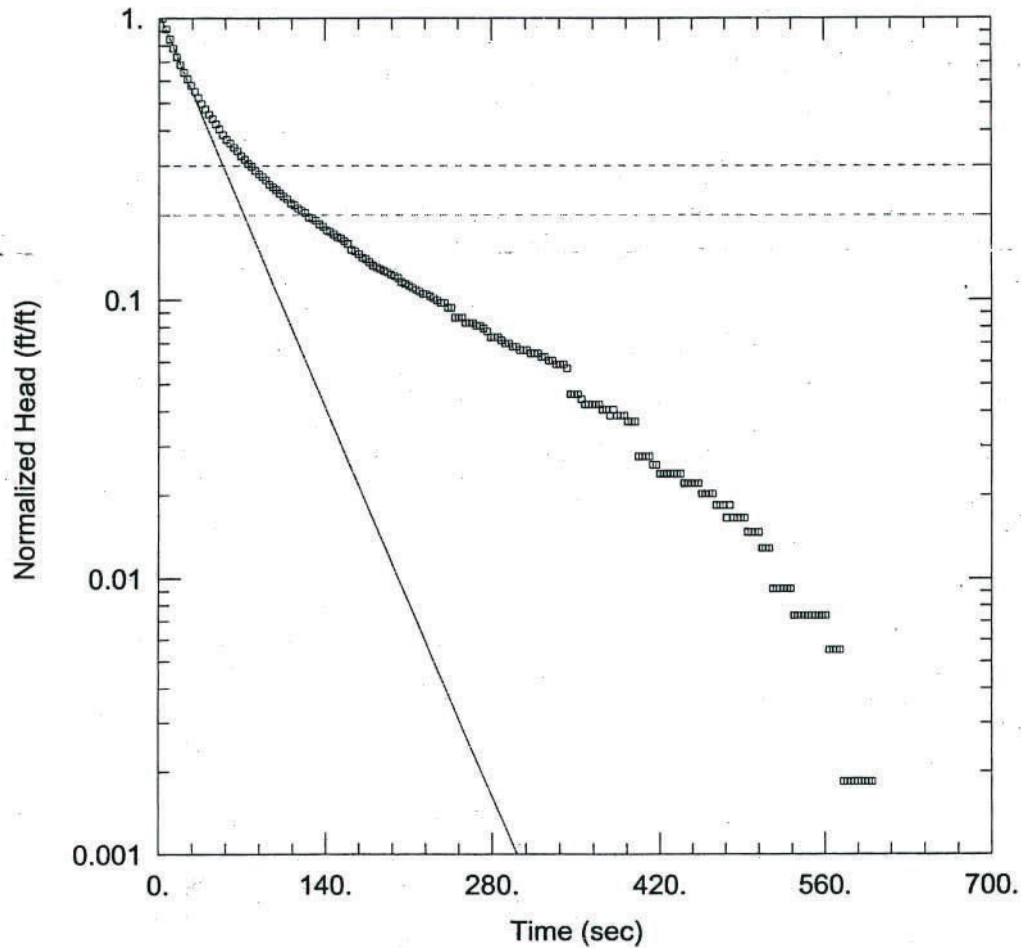
Saturated Thickness: 40.49 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (GS21in)

Initial Displacement: 1.453 ft Static Water Column Height: 40.49 ft
 Total Well Penetration Depth: 39.99 ft Screen Length: 9. ft
 Casing Radius: 0.0833 ft Wellbore Radius: 0.333 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice
 K = 0.001108 cm/sec $y_0 =$ 1.547 ft



WELL TEST ANALYSIS

Data Set: T:\ESEE MAJOR PROJECTS\PROJECTS\WANSLEY\2006\slugtests\GS21out.aqt
 Date: 12/07/06 Time: 12:56:39

PROJECT INFORMATION

Company: SCS
 Client: GPC
 Project: 3186DE
 Location: Plant Wansley
 Test Well: GS27in
 Test Date: 11/8/2006

AQUIFER DATA

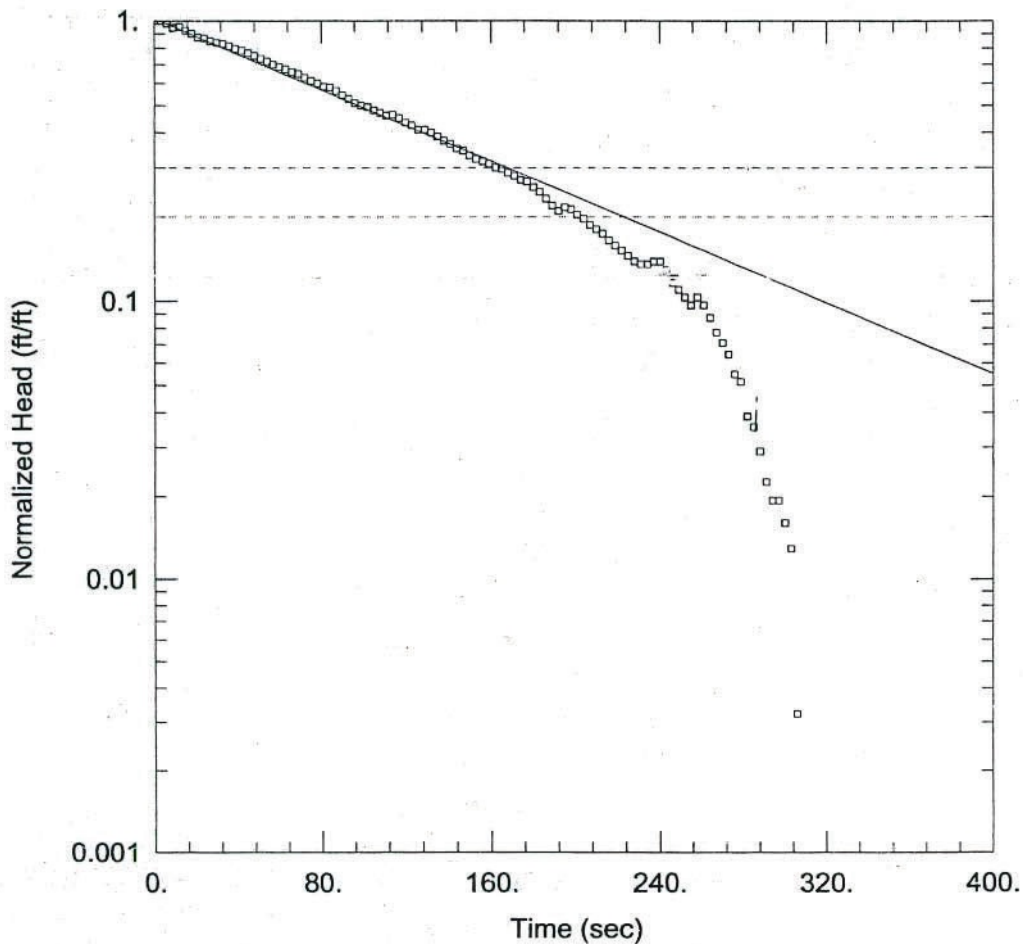
Saturated Thickness: 40.49 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (GS21out)

Initial Displacement: 1.257 ft Static Water Column Height: 40.49 ft
 Total Well Penetration Depth: 39.99 ft Screen Length: 9. ft
 Casing Radius: 0.0833 ft Wellbore Radius: 0.333 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice
 K = 0.0008414 cm/sec y0 = 1.31 ft



WELL TEST ANALYSIS

Data Set: T:\ESEE MAJOR PROJECTS\PROJECTS\WANSLEY\2006\slugtests\GS25in.aqt
 Date: 12/07/06 Time: 12:57:51

PROJECT INFORMATION

Company: SCS
 Client: GPC
 Project: 3186DE
 Location: Plant Wansley
 Test Well: GS27in
 Test Date: 11/8/2006

AQUIFER DATA

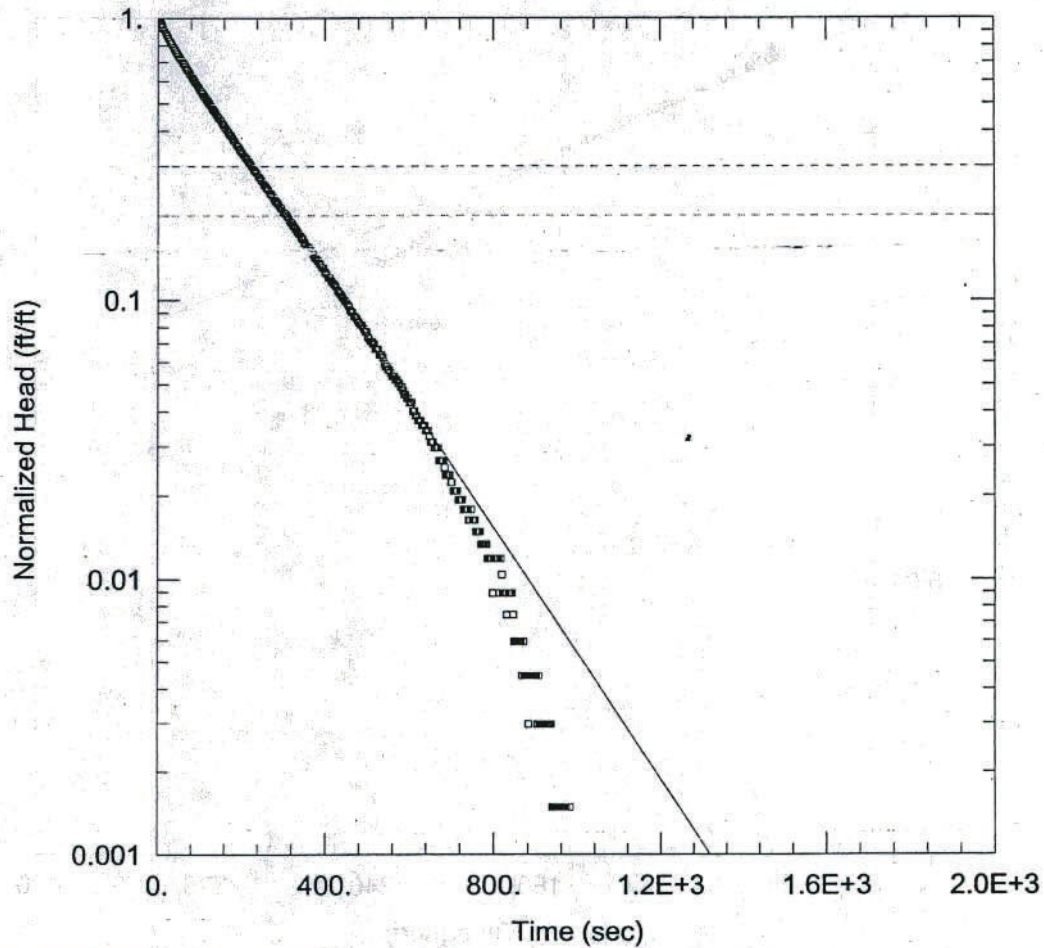
Saturated Thickness: 24.67 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (GS25in)

Initial Displacement: 0.7161 ft Static Water Column Height: 24.67 ft
 Total Well Penetration Depth: 24.17 ft Screen Length: 9. ft
 Casing Radius: 0.0833 ft Wellbore Radius: 0.333 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.0002454 cm/sec $y_0 =$ 0.7298 ft



WELL TEST ANALYSIS

Data Set: T:\ESEE MAJOR PROJECTS\PROJECTS\WANSLEY\2006\slugtests\GS25out.aqt
 Date: 12/07/06 Time: 12:58:36

PROJECT INFORMATION

Company: SCS
 Client: GPC
 Project: 3186DE
 Location: Plant Wansley
 Test Well: GS27in
 Test Date: 11/8/2006

AQUIFER DATA

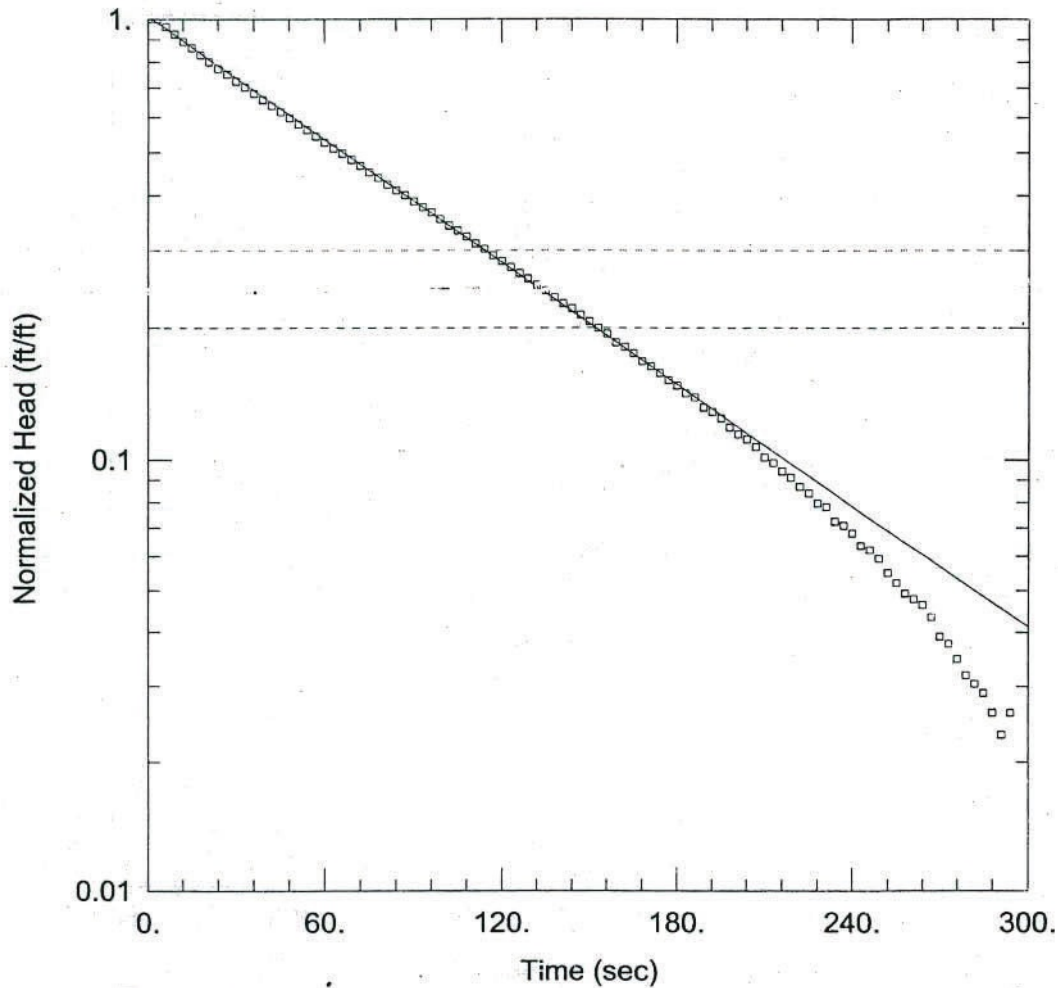
Saturated Thickness: 24.67 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (GS25out)

Initial Displacement: 1.557 ft Static Water Column Height: 24.67 ft
 Total Well Penetration Depth: 24.17 ft Screen Length: 9. ft
 Casing Radius: 0.0833 ft Wellbore Radius: 0.333 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.0001764 cm/sec y0 = 1.584 ft



WELL TEST ANALYSIS

Data Set: T:\ESEE MAJOR PROJECTS\PROJECTS\WANSLEY\2006\slugtests\GS27in.aqt
 Date: 12/07/06 Time: 13:06:13

PROJECT INFORMATION

Company: SCS
 Client: GPC
 Project: 3186DE
 Location: Plant Wansley
 Test Well: GS27in
 Test Date: 11/8/2006

AQUIFER DATA

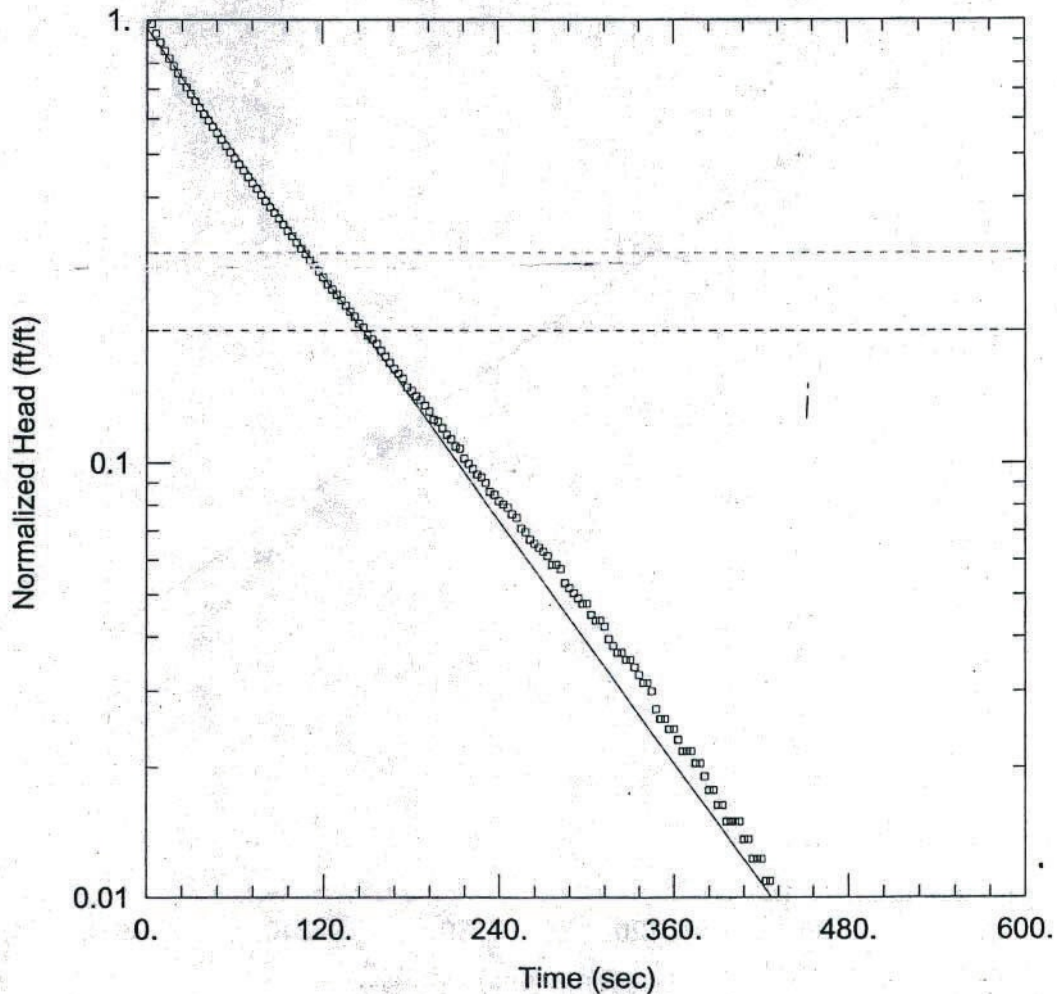
Saturated Thickness: 28.7 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (GS27in)

Initial Displacement: 1.596 ft Static Water Column Height: 23.7 ft
 Total Well Penetration Depth: 23.2 ft Screen Length: 9. ft
 Casing Radius: 0.0833 ft Wellbore Radius: 0.3333 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.0003252 cm/sec y0 = 1.621 ft



WELL TEST ANALYSIS

Data Set: T:\ESEE MAJOR PROJECTS\PROJECTS\WANSLEY\2006\slugtests\GS27out.aqt
 Date: 12/08/06 Time: 10:42:28

PROJECT INFORMATION

Company: SCS
 Client: GPC
 Project: 3186DE
 Location: Plant Wansley
 Test Well: GS27in
 Test Date: 11/8/2006

AQUIFER DATA

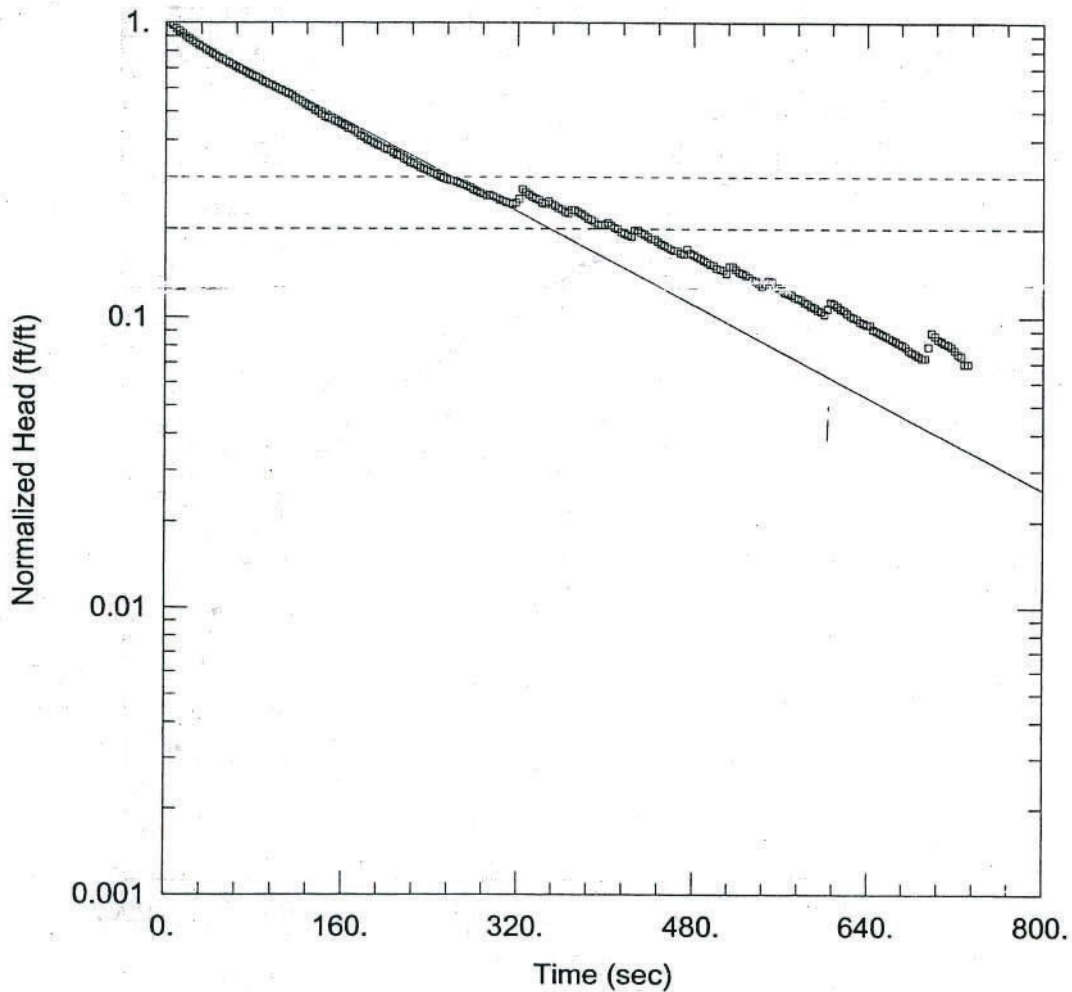
Saturated Thickness: 28.7 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (GS27out)

Initial Displacement: 1.696 ft Static Water Column Height: 23.7 ft
 Total Well Penetration Depth: 23.2 ft Screen Length: 9. ft
 Casing Radius: 0.0833 ft Wellbore Radius: 0.3333 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.0003252 cm/sec $y_0 = 1.621$ ft



WELL TEST ANALYSIS

Data Set: T:\ESEE MAJOR PROJECTS\PROJECTS\WANSLEY\2006\slugtests\GS29in.aqt
 Date: 12/08/06 Time: 10:56:04

PROJECT INFORMATION

Company: SCS
 Client: GPC
 Project: 3186DE
 Location: Plant Wansley
 Test Well: GS27in
 Test Date: 11/8/2006

AQUIFER DATA

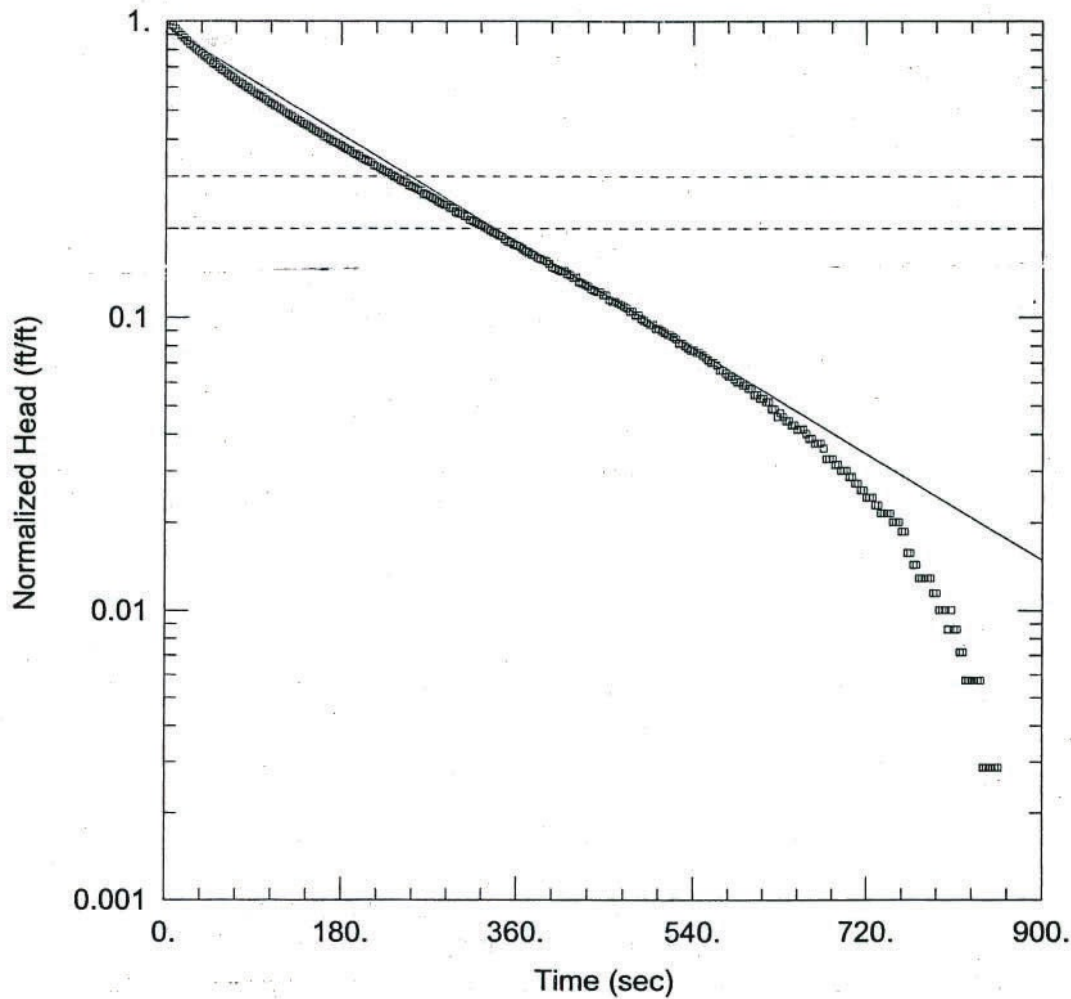
Saturated Thickness: 30.6 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (GS29in)

Initial Displacement: 2.026 ft Static Water Column Height: 30.6 ft
 Total Well Penetration Depth: 30.1 ft Screen Length: 9. ft
 Casing Radius: 0.0833 ft Wellbore Radius: 0.333 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.0001586 cm/sec $y_0 = 1.983$ ft



WELL TEST ANALYSIS

Data Set: T:\ESEE MAJOR PROJECTS\PROJECTS\WANSLEY\2006\slugtests\GS29out.aqt
 Date: 12/08/06 Time: 10:57:25

PROJECT INFORMATION

Company: SCS
 Client: GPC
 Project: 3186DE
 Location: Plant Wansley
 Test Well: GS27in
 Test Date: 11/8/2006

AQUIFER DATA

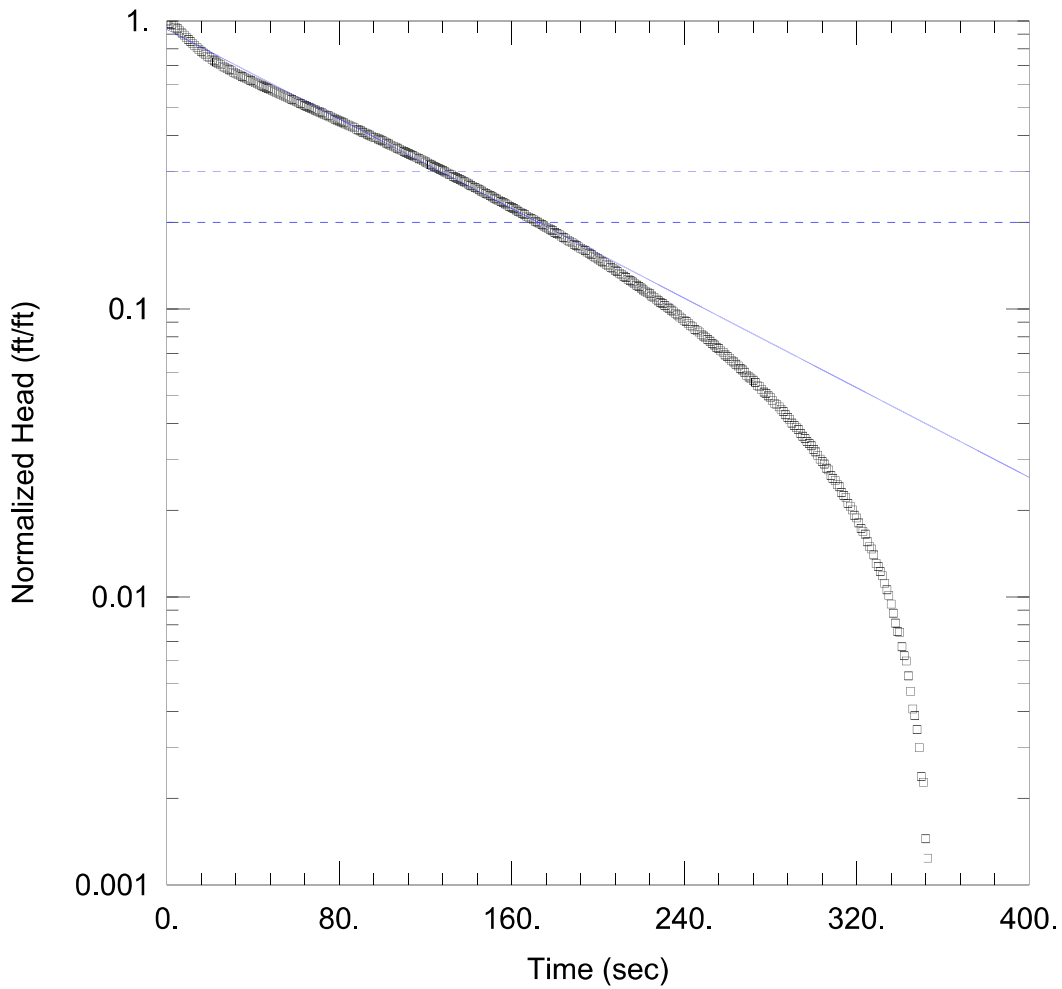
Saturated Thickness: 30.6 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (GS29out)

Initial Displacement: 1.61 ft Static Water Column Height: 30.6 ft
 Total Well Penetration Depth: 30.1 ft Screen Length: 9. ft
 Casing Radius: 0.0833 ft Wellbore Radius: 0.333 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice
 K = 0.0001612 cm/sec $y_0 = 1.536 ft$



WELL TEST ANALYSIS

Data Set: N:\...\GS-101 - Test 1.aqt
 Date: 02/16/22

Time: 17:13:11

PROJECT INFORMATION

Company: Geosyntec Consultants
 Client: Southern Company Services
 Project: GW7535
 Location: Plant Wansley, Carrollton, GA
 Test Well: GS-101 - Test 1
 Test Date: 2/15/2022

AQUIFER DATA

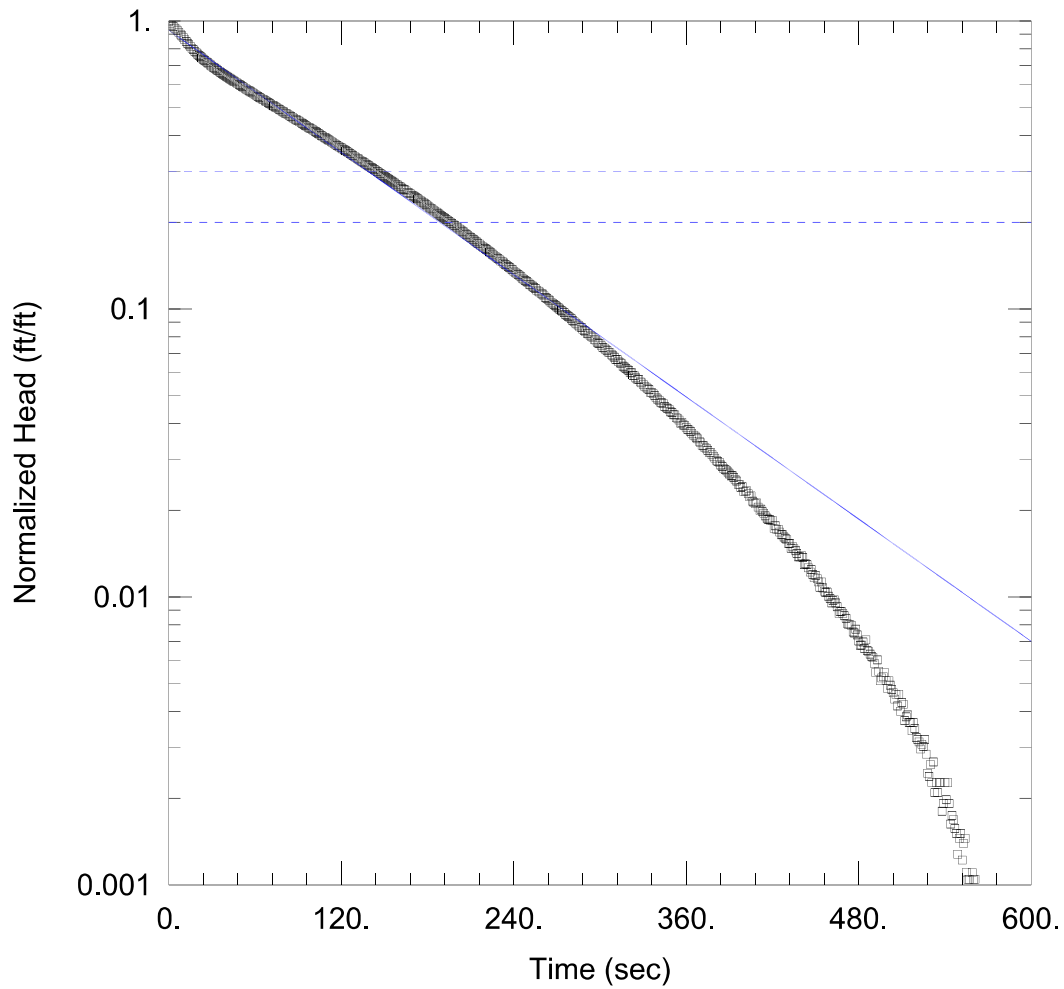
Saturated Thickness: 32.73 ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (GS-101 - Test 1)

Initial Displacement: 19.36 ft Static Water Column Height: 32.73 ft
 Total Well Penetration Depth: 32.33 ft Screen Length: 10. ft
 Casing Radius: 0.083 ft Well Radius: 0.21 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 1.03 ft/day y0 = 18.09 ft



WELL TEST ANALYSIS

Data Set: N:\...\GS-101 - Test 2 Bouwer-Rice.aqt

Date: 02/17/22

Time: 09:40:29

PROJECT INFORMATION

Company: Geosyntec Consultants

Client: Southern Company Services

Project: GW7535

Location: Plant Wansley, Carrollton, GA

Test Well: GS-101 - Test 2

Test Date: 2/15/2022

AQUIFER DATA

Saturated Thickness: 32.73 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (GS-101 - Test 2)

Initial Displacement: 17.21 ft

Static Water Column Height: 32.73 ft

Total Well Penetration Depth: 32.33 ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Well Radius: 0.21 ft

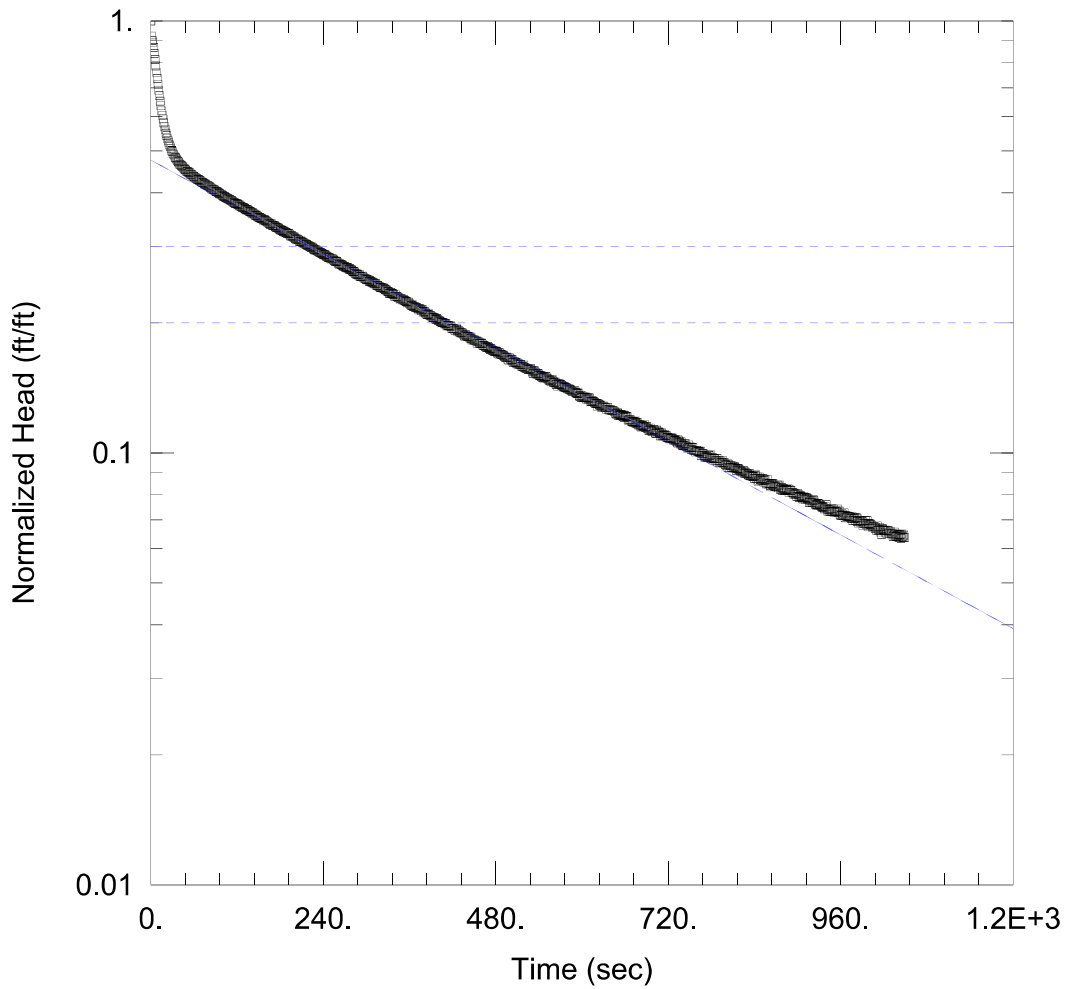
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.9365$ ft/day

$y_0 = 15.96$ ft



WELL TEST ANALYSIS

Data Set: N:\...\GS-102 - Test 1 Bouwer-Rice.aqt

Date: 02/17/22

Time: 16:18:38

PROJECT INFORMATION

Company: Geosyntec Consultants

Client: Southern Company Services

Project: GW7535

Location: Plant Wansley, Carrollton, GA

Test Well: GS-102 - Test 1

Test Date: 2/15/2022

AQUIFER DATA

Saturated Thickness: 18.76 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (GS-102 - Test 1)

Initial Displacement: 4.65 ft

Static Water Column Height: 18.76 ft

Total Well Penetration Depth: 18.36 ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Well Radius: 0.21 ft

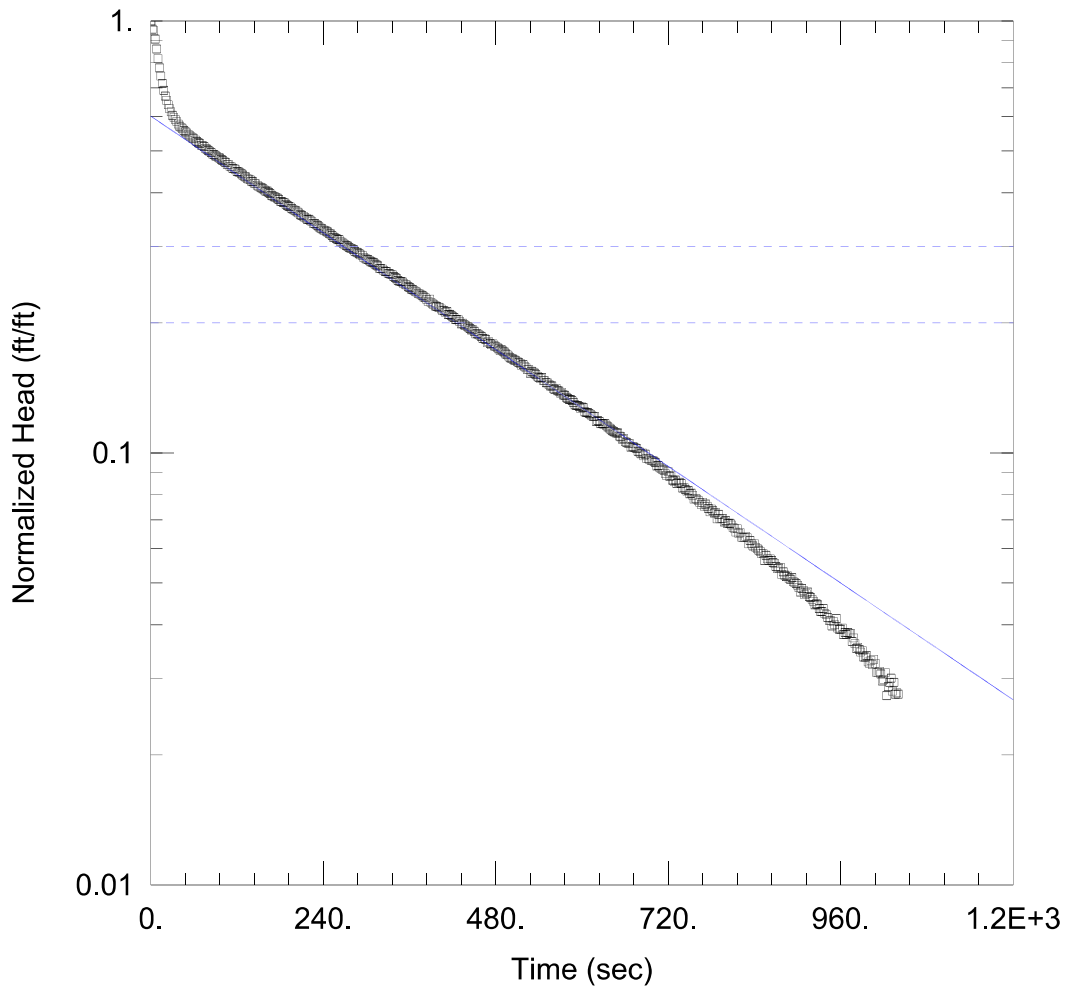
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.2217 ft/day

y0 = 2.214 ft



WELL TEST ANALYSIS

Data Set: N:\...\GS-102 - Test 2 Bouwer-Rice.aqt

Date: 02/17/22

Time: 16:20:52

PROJECT INFORMATION

Company: Geosyntec Consultants

Client: Southern Company Services

Project: GW7535

Location: Plant Wansley, Carrollton, GA

Test Well: GS-102 - Test 2

Test Date: 2/15/2022

AQUIFER DATA

Saturated Thickness: 18.76 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (GS-102 - Test 2)

Initial Displacement: 4.45 ft

Static Water Column Height: 18.76 ft

Total Well Penetration Depth: 18.36 ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Well Radius: 0.21 ft

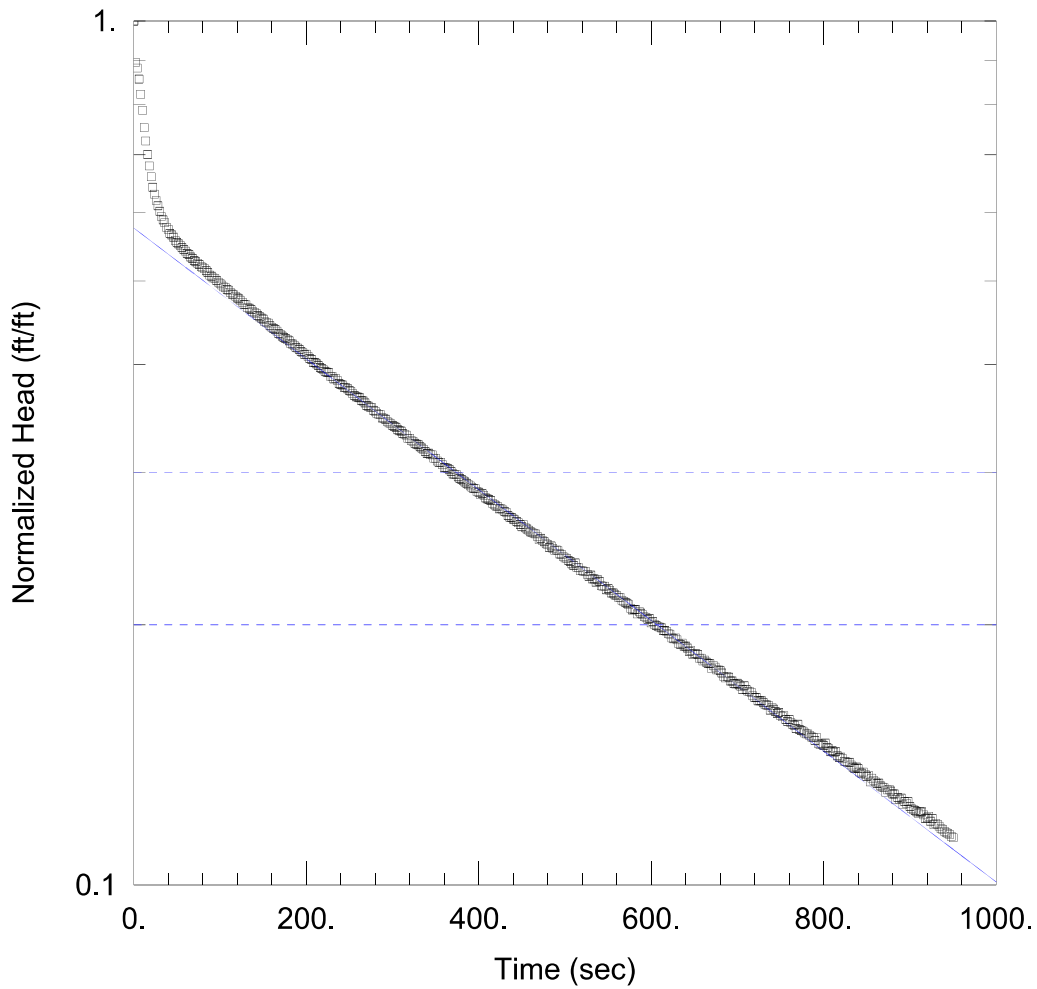
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.2762$ ft/day

$y_0 = 2.679$ ft



WELL TEST ANALYSIS

Data Set: N:\...\GS-103 - Test 1 Bouwer-Rice.aqt

Date: 02/17/22

Time: 11:10:00

PROJECT INFORMATION

Company: Geosyntec Consultants

Client: Southern Company Services

Project: GW7535

Location: Plant Wansley, Carrollton, GA

Test Well: GS-103 - Test 1

Test Date: 2/15/2022

AQUIFER DATA

Saturated Thickness: 21.37 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (GS-103 - Test 1)

Initial Displacement: 5.07 ft

Static Water Column Height: 21.37 ft

Total Well Penetration Depth: 20.97 ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Well Radius: 0.21 ft

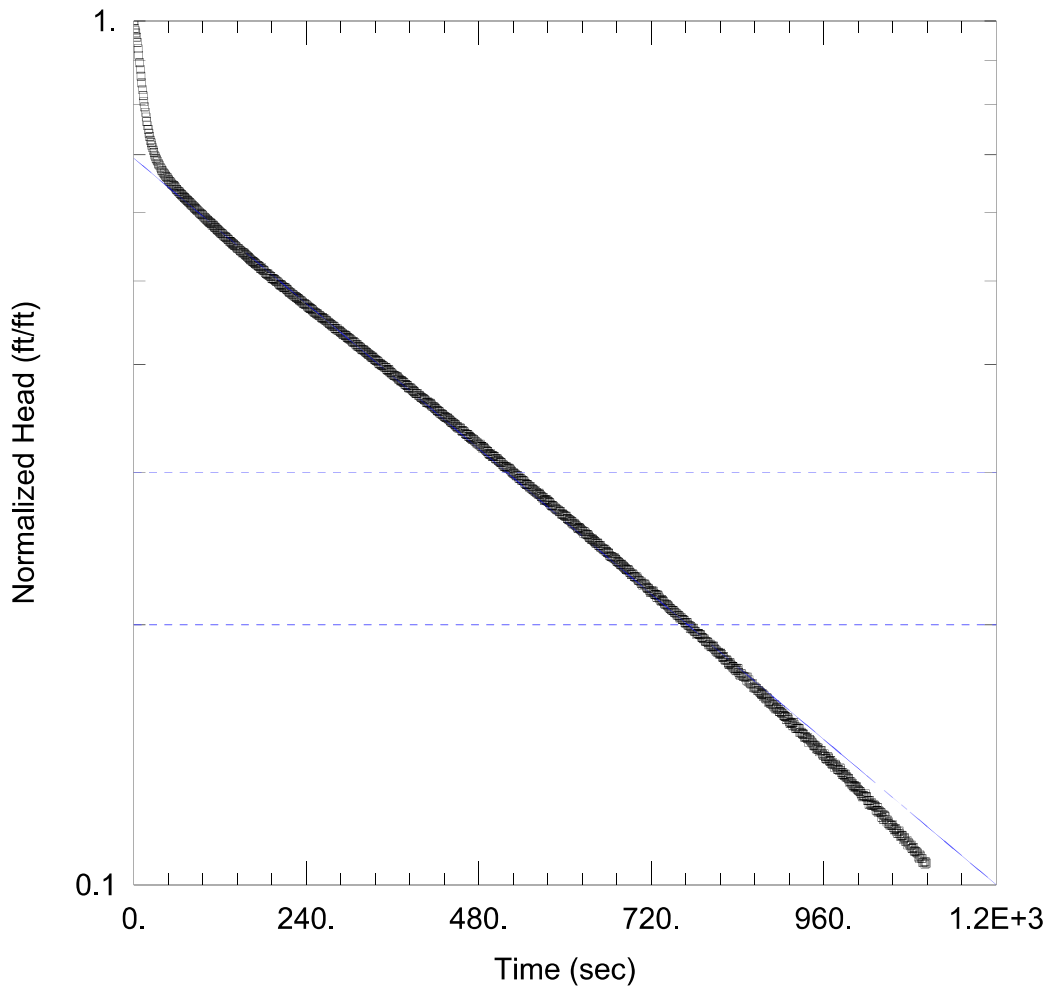
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.1892$ ft/day

$y_0 = 2.919$ ft



WELL TEST ANALYSIS

Data Set: N:\...\GS-103 - Test 2 Bouwer-Rice.aqt

Date: 02/17/22

Time: 16:22:53

PROJECT INFORMATION

Company: Geosyntec Consultants

Client: Southern Company Services

Project: GW7535

Location: Plant Wansley, Carrollton, GA

Test Well: GS-103 - Test 2

Test Date: 2/15/2022

AQUIFER DATA

Saturated Thickness: 21.37 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (GS-103 - Test 2)

Initial Displacement: 6.832 ft

Static Water Column Height: 21.37 ft

Total Well Penetration Depth: 20.97 ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Well Radius: 0.21 ft

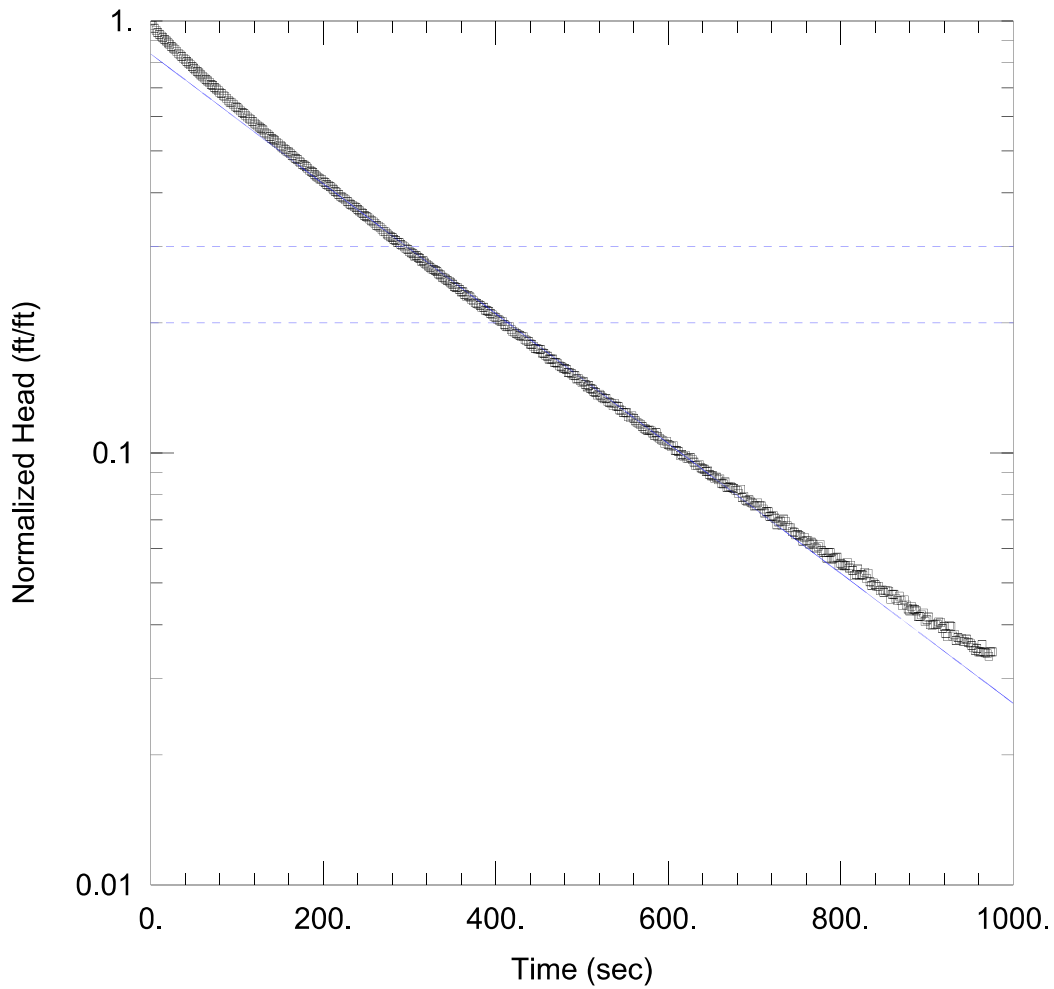
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.1752$ ft/day

$y_0 = 4.739$ ft



WELL TEST ANALYSIS

Data Set: N:\...\GS-104 - Test 1 Bouwer-Rice.aqt

Date: 02/17/22

Time: 14:03:55

PROJECT INFORMATION

Company: Geosyntec Consultants

Client: Southern Company Services

Project: GW7535

Location: Plant Wansley, Carrollton, GA

Test Well: GS-104 - Test 1

Test Date: 2/15/2022

AQUIFER DATA

Saturated Thickness: 22.55 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (GS-104 - Test 1)

Initial Displacement: 6.5 ft

Static Water Column Height: 22.55 ft

Total Well Penetration Depth: 22.15 ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Well Radius: 0.21 ft

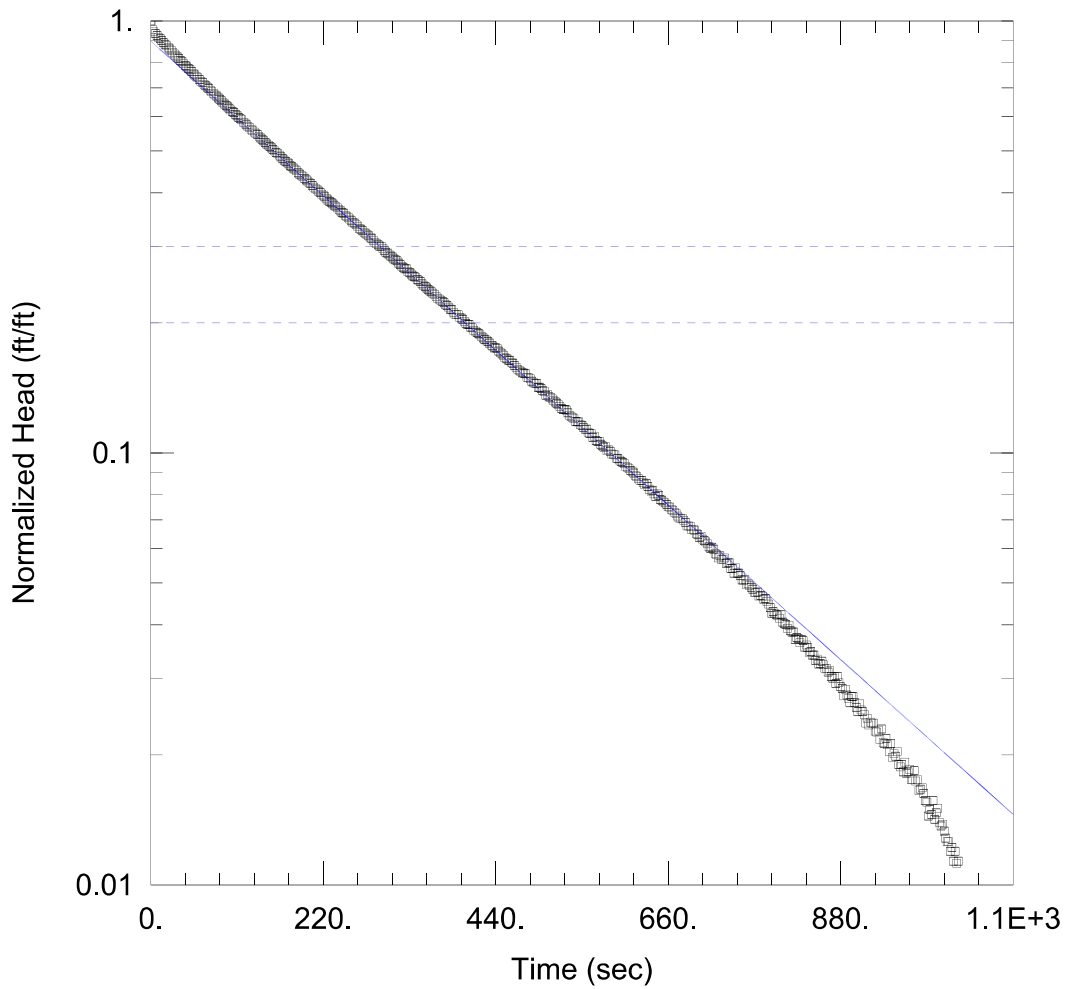
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.3786$ ft/day

$y_0 = 5.45$ ft



WELL TEST ANALYSIS

Data Set: N:\...\GS-104 - Test 2 Bouwer-Rice.aqt

Date: 02/17/22

Time: 14:26:23

PROJECT INFORMATION

Company: Geosyntec Consultants

Client: Southern Company Services

Project: GW7535

Location: Plant Wansley, Carrollton, GA

Test Well: GS-104 - Test 2

Test Date: 2/15/2022

AQUIFER DATA

Saturated Thickness: 22.55 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (GS-104 - Test 2)

Initial Displacement: 8.104 ft

Static Water Column Height: 22.55 ft

Total Well Penetration Depth: 22.15 ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Well Radius: 0.21 ft

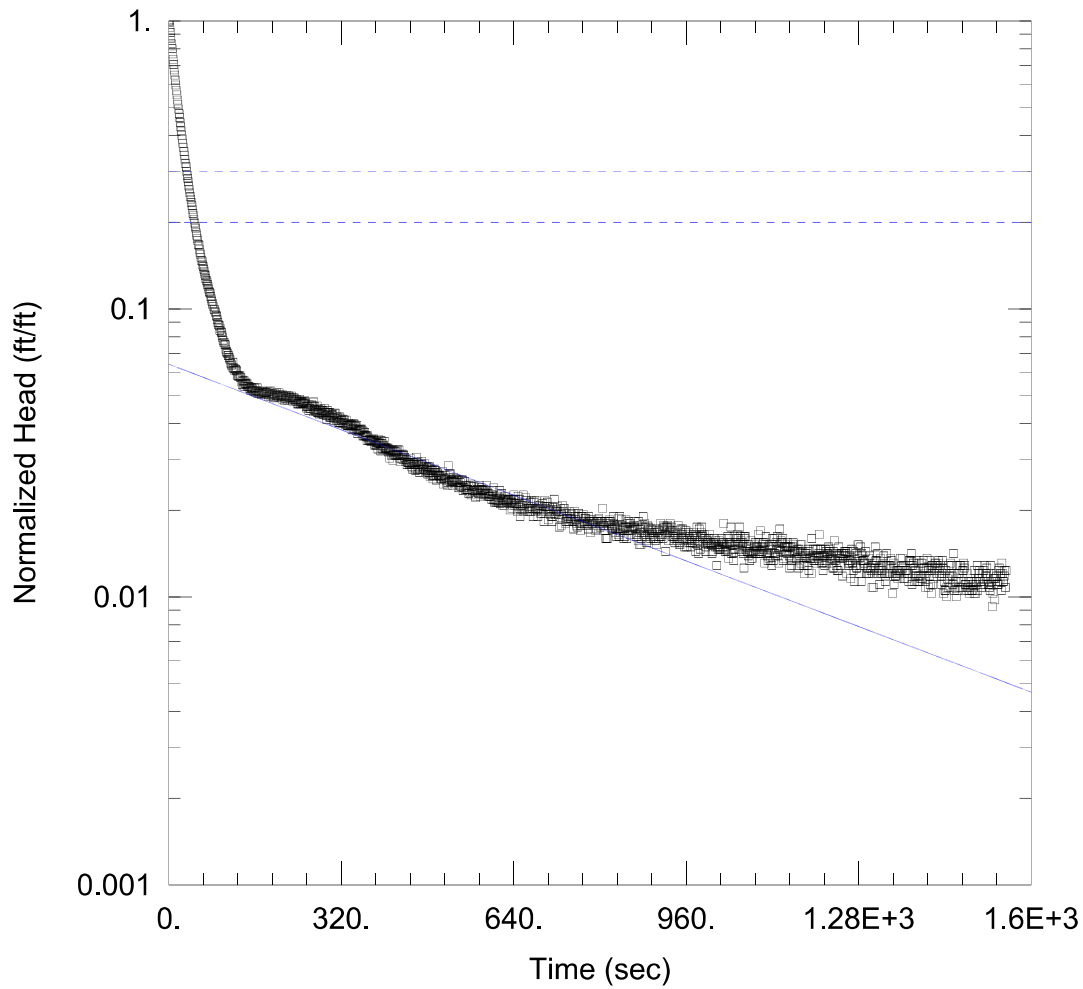
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.4099$ ft/day

$y_0 = 7.277$ ft



WELL TEST ANALYSIS

Data Set: N:\...\GS-105 - Test 1 Bower-Rice.aqt

Date: 02/17/22

Time: 16:05:26

PROJECT INFORMATION

Company: Geosyntec Consultants

Client: Southern Company Services

Project: GW7535

Location: Plant Wansley, Carrollton, GA

Test Well: GS-105 - Test 1

Test Date: 2/15/2022

AQUIFER DATA

Saturated Thickness: 3.891 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (GS-105 - Test 1)

Initial Displacement: 3.891 ft

Static Water Column Height: 1.04 ft

Total Well Penetration Depth: 10. ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Well Radius: 0.21 ft

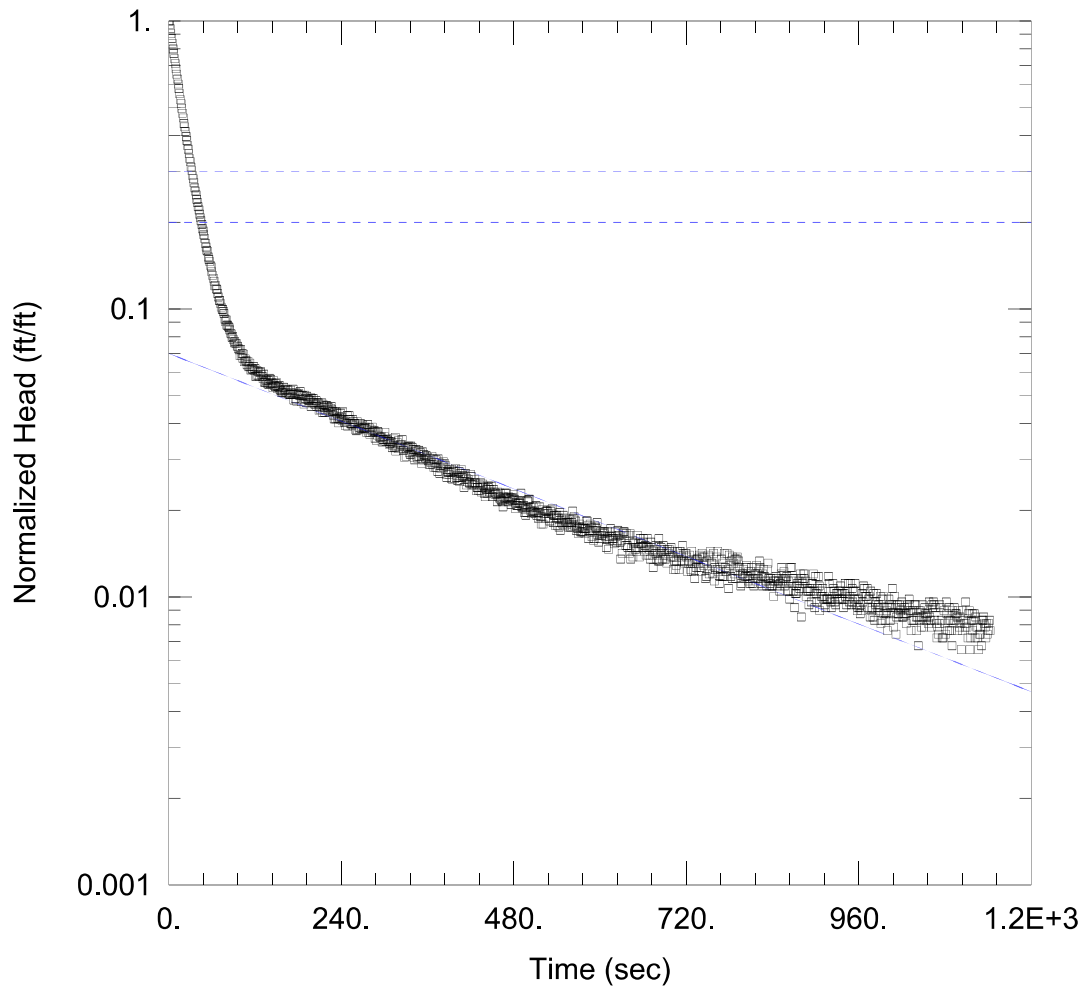
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bower-Rice

$K =$ 0.293 ft/day

$y_0 =$ 0.2501 ft



WELL TEST ANALYSIS

Data Set: N:\...\GS-105 - Test 2 Bouwer-Rice.aqt

Date: 02/17/22

Time: 16:01:14

PROJECT INFORMATION

Company: Geosyntec Consultants

Client: Southern Company Services

Project: GW7535

Location: Plant Wansley, Carrollton, GA

Test Well: GS-105 - Test 2

Test Date: 2/15/2022

AQUIFER DATA

Saturated Thickness: 4.58 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (GS-105 - Test 2)

Initial Displacement: 4.58 ft

Static Water Column Height: 1.04 ft

Total Well Penetration Depth: 10. ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Well Radius: 0.21 ft

SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.3502$ ft/day

$y_0 = 0.3206$ ft