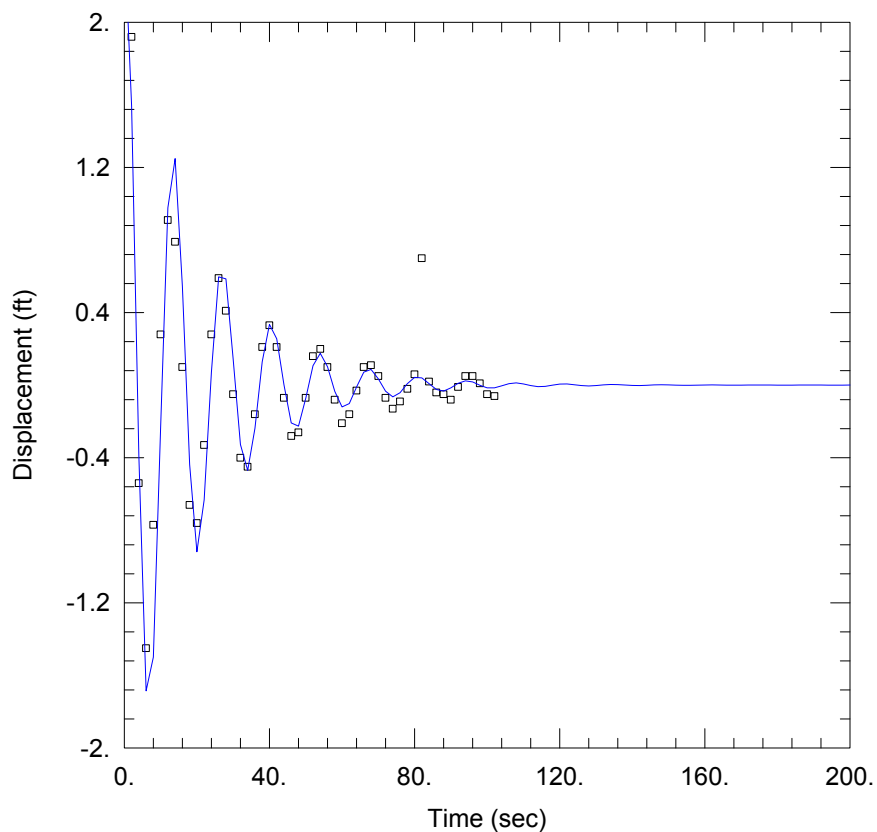


# Appendix C

## Packer Interval Slug Test and Pumping Data



#### WELL TEST ANALYSIS

Data Set: \...\geothermal5interval36\_154ft.aqt

Date: 12/11/12

Time: 16:06:26

#### PROJECT INFORMATION

Company: WGNHS

Location: Fort McCoy, WI

Test Well: Geothermal #5

Test Date: 10/18/2012

#### AQUIFER DATA

Saturated Thickness: 900. ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

#### WELL DATA (Geothermal #5)

Initial Displacement: 2.5 ft

Static Water Column Height: 900. ft

Total Well Penetration Depth: 190. ft

Screen Length: 118. ft

Casing Radius: 0.1 ft

Well Radius: 0.25 ft

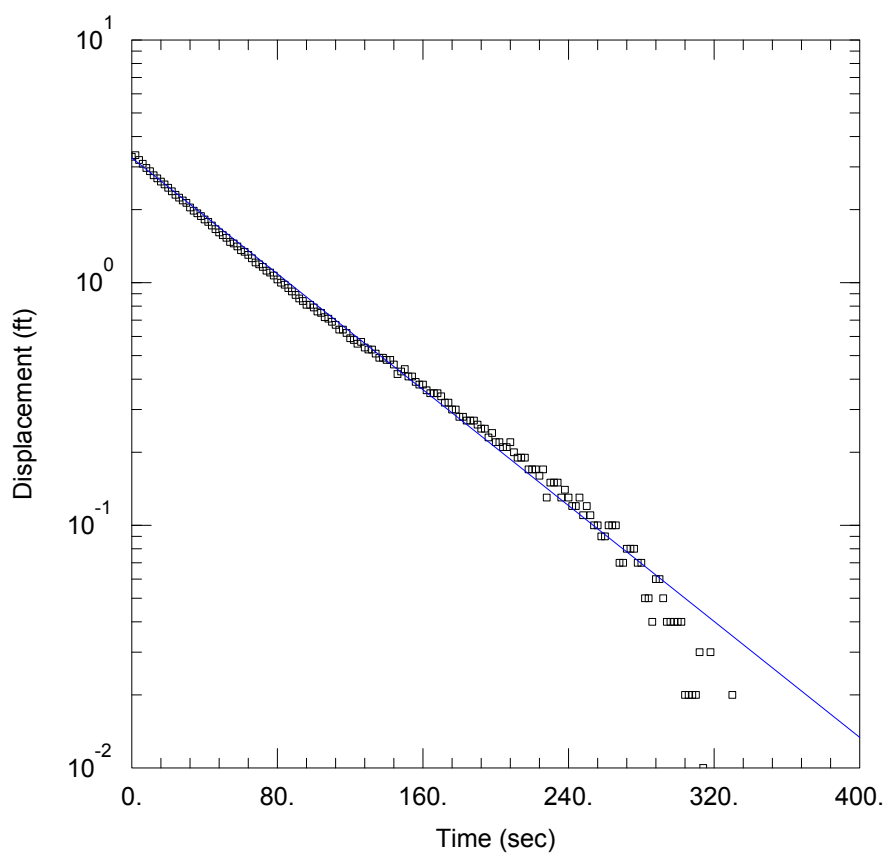
#### SOLUTION

Aquifer Model: Confined

Solution Method: Butler

$K = 50.29$  ft/day

$L_e = 146.3$  ft



#### WELL TEST ANALYSIS

Data Set: \...\geothermal5interval166\_174ft.aqt

Date: 12/11/12

Time: 16:07:39

#### PROJECT INFORMATION

Company: WGNHS

Location: Fort McCoy, WI

Test Well: Geothermal #5

Test Date: 10/18/2012

#### AQUIFER DATA

Saturated Thickness: 900 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

#### WELL DATA (Geothermal #5)

Initial Displacement: 3.3 ft

Static Water Column Height: 900 ft

Total Well Penetration Depth: 208.3 ft

Screen Length: 8.33 ft

Casing Radius: 0.1 ft

Well Radius: 0.25 ft

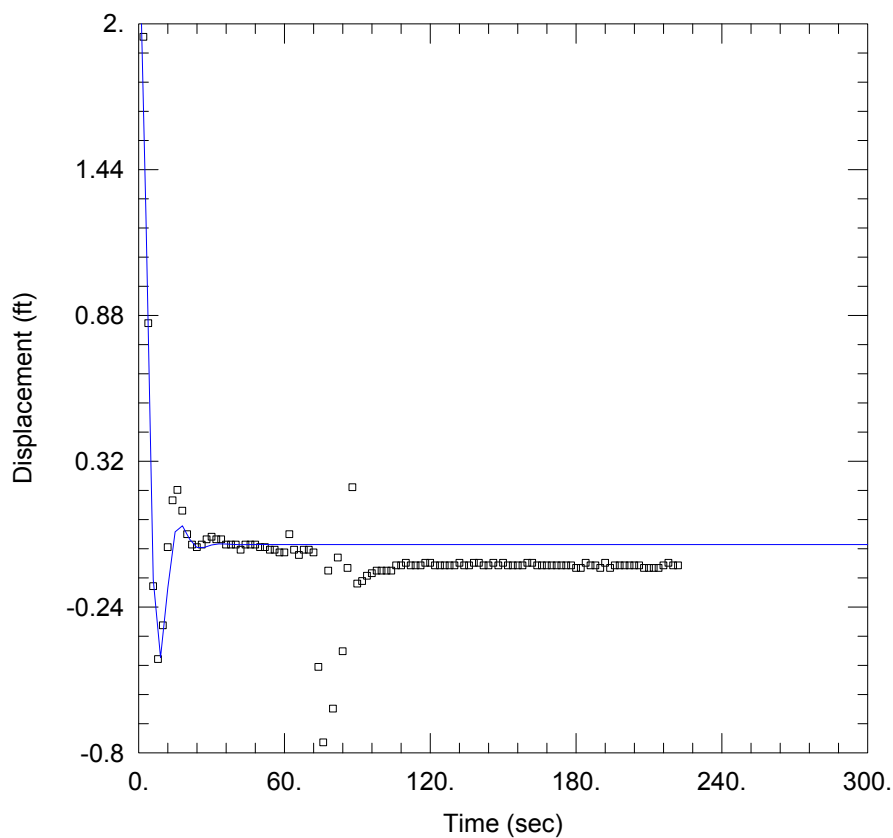
#### SOLUTION

Aquifer Model: Confined

Solution Method: Hvorslev

$K = 2.5$  ft/day

$y_0 = 3.266$  ft



#### WELL TEST ANALYSIS

Data Set: \...\geothermal5interval220\_228ft.aqt

Date: 12/11/12

Time: 16:08:32

#### PROJECT INFORMATION

Company: WGNHS

Location: Fort McCoy, WI

Test Well: Geothermal #5

Test Date: 10/18/2012

#### AQUIFER DATA

Saturated Thickness: 900 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1

#### WELL DATA (Geothermal #5)

Initial Displacement: 2.5 ft

Static Water Column Height: 900 ft

Total Well Penetration Depth: 208.3 ft

Screen Length: 8.33 ft

Casing Radius: 0.1 ft

Well Radius: 0.25 ft

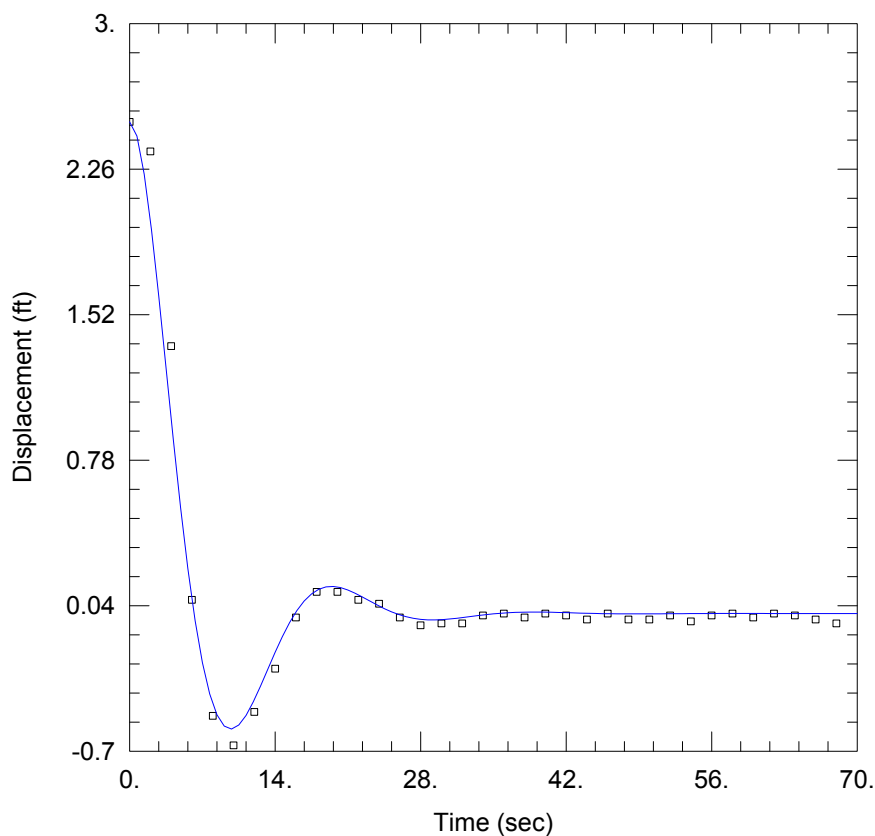
#### SOLUTION

Aquifer Model: Confined

Solution Method: Butler

$K = 80.3$  ft/day

$L_e = 178.2$  ft



#### WELL TEST ANALYSIS

Data Set: \...\geothermal5interval256\_264ft.aqt

Date: 12/11/12

Time: 16:09:20

#### PROJECT INFORMATION

Company: WGNHS

Location: Fort McCoy, WI

Test Well: Geothermal #5

Test Date: 10/18/2012

#### AQUIFER DATA

Saturated Thickness: 900. ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

#### WELL DATA (Geothermal #5)

Initial Displacement: 2.5 ft

Static Water Column Height: 900. ft

Total Well Penetration Depth: 208.3 ft

Screen Length: 8.33 ft

Casing Radius: 0.1 ft

Well Radius: 0.25 ft

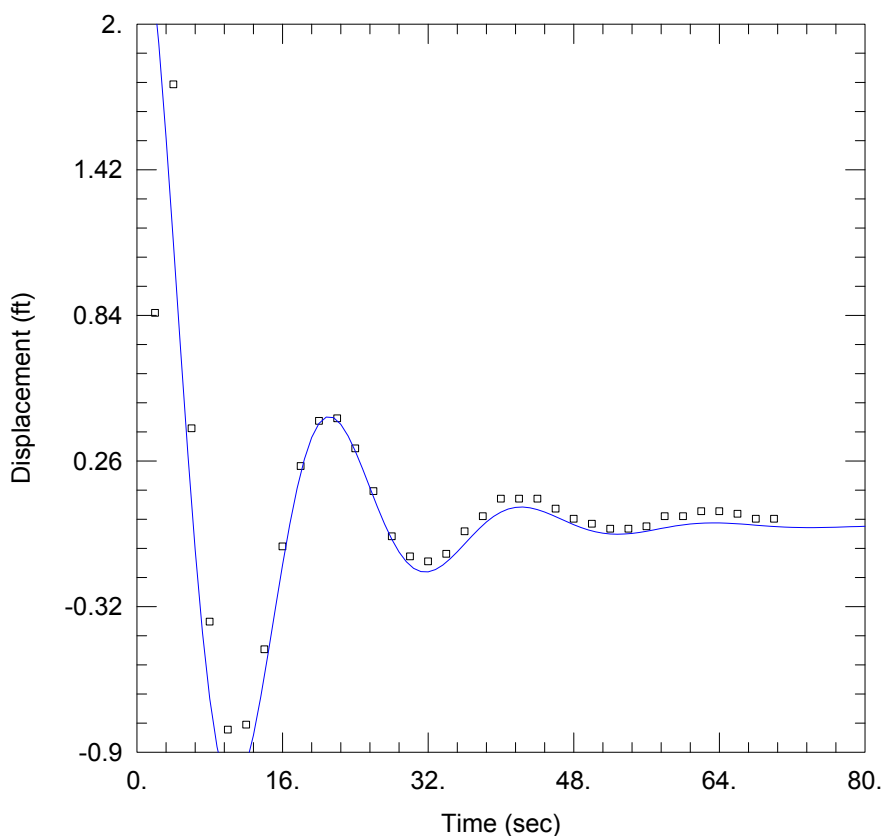
#### SOLUTION

Aquifer Model: Confined

Solution Method: Butler

$K = 77.33$  ft/day

$L_e = 253.9$  ft



#### WELL TEST ANALYSIS

Data Set: \...\geothermal5interval306\_314ft.aqt

Date: 12/11/12

Time: 16:13:25

#### PROJECT INFORMATION

Company: WGNHS

Location: Fort McCoy, WI

Test Well: Geothermal #5

Test Date: 10/18/2012

#### AQUIFER DATA

Saturated Thickness: 900 ft

Anisotropy Ratio ( $K_z/K_r$ ): 1.

#### WELL DATA (Geothermal #5)

Initial Displacement: 2.5 ft

Static Water Column Height: 900 ft

Total Well Penetration Depth: 208.3 ft

Screen Length: 8.33 ft

Casing Radius: 0.1 ft

Well Radius: 0.25 ft

#### SOLUTION

Aquifer Model: Confined

Solution Method: Butler

$K = 105$  ft/day

$L_e = 337.7$  ft