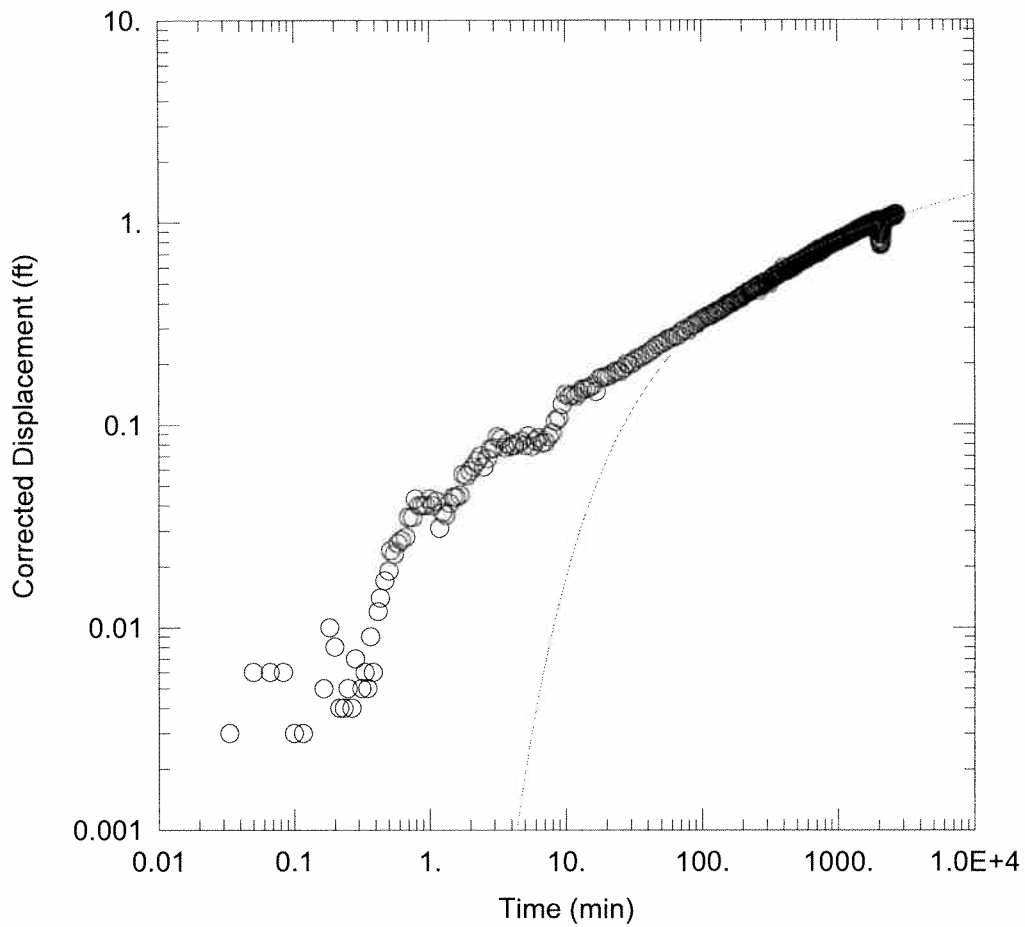




APPENDIX G
EW-02 PUMP TEST DATA ANALYSES



EW-02 PUMP TEST (ECPZ-01 THEIS DRDN)

PROJECT INFORMATION

Company: Weston
 Client: Confidential
 Location: Cottage Grove, MN
 Test Well: EW-02
 Obs. Well: ECPZ-01
 Test Date: October 2008

SOLUTION

Aquifer Model: Unconfined

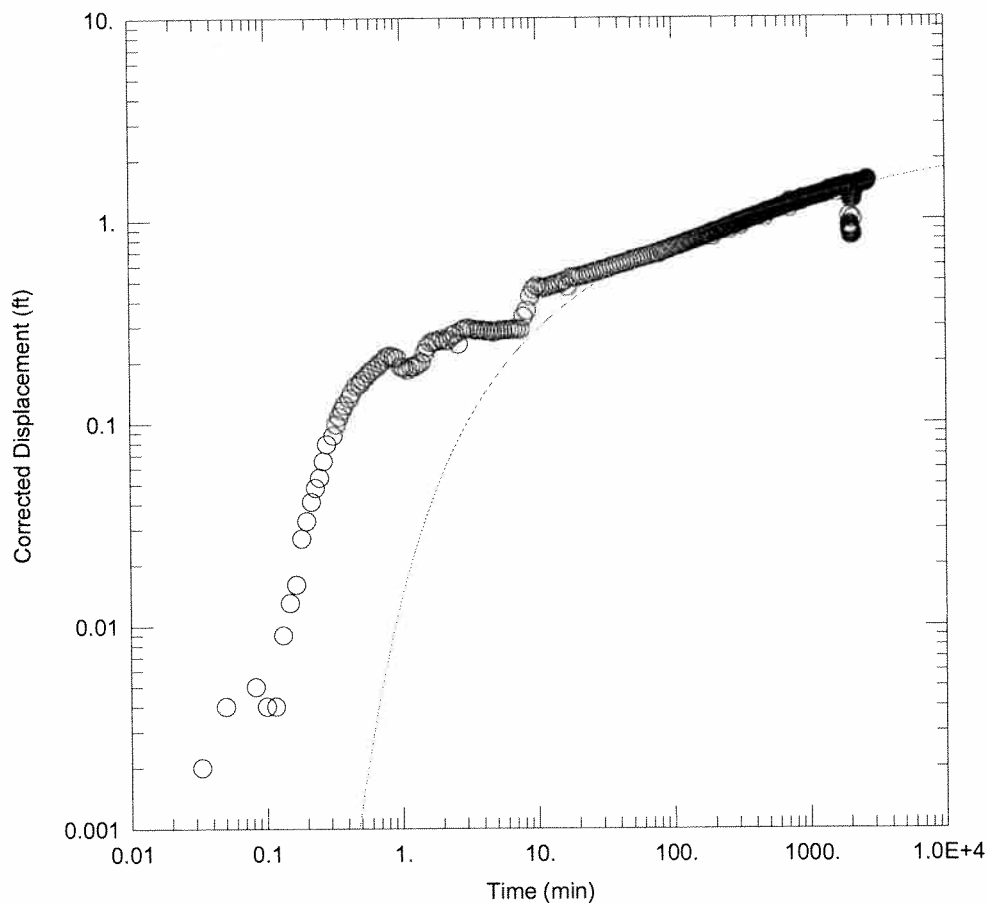
Solution Method: Theis

T = 5.11E+4 ft²/day

S = 0.02353

Kz/Kr = 1.

b = 120. ft



EW-02 PUMP TEST (ECPZ-02 THEIS DRAWDOWN)

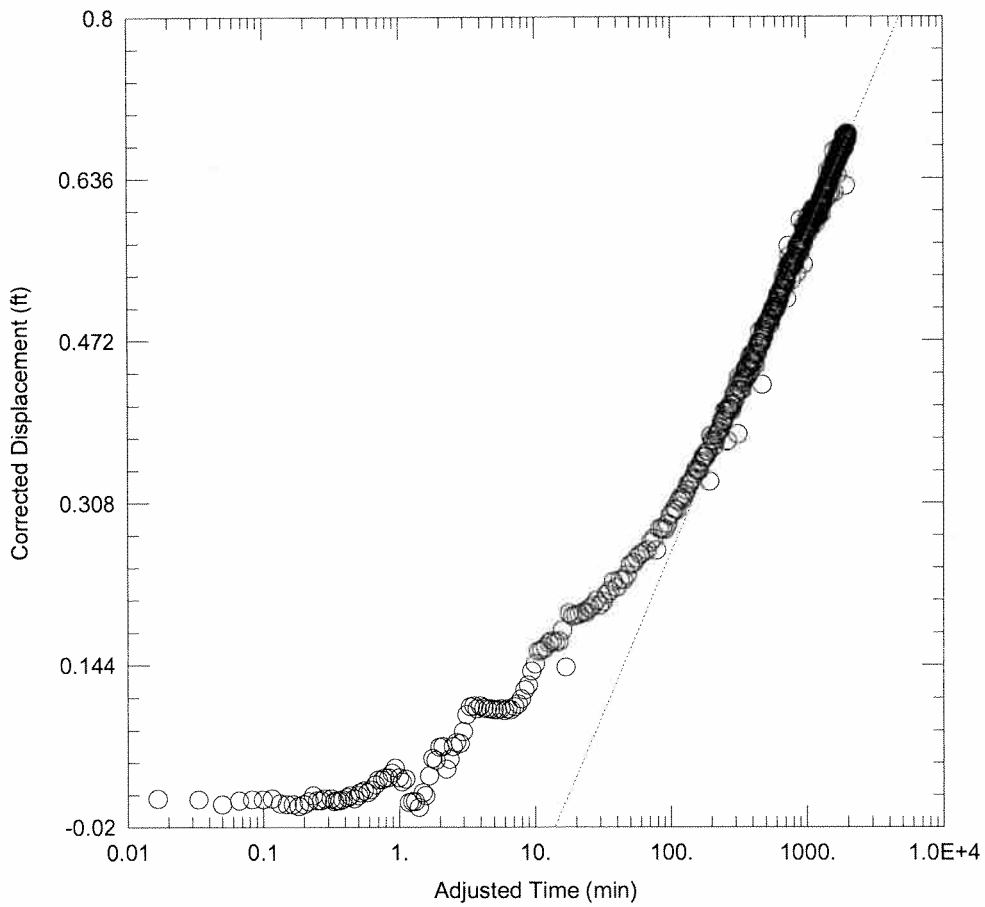
PROJECT INFORMATION

Company: Weston
 Client: Confidential
 Location: Cottage Grove, MN
 Test Well: EW-02
 Obs. Well: ECPZ-01
 Test Date: October 2008

SOLUTION

Aquifer Model: Unconfined
 $T = 5.394E+4 \text{ ft}^2/\text{day}$
 $Kz/Kr = 1.$

Solution Method: Theis
 $S = 0.01558$
 $b = 120. \text{ ft}$



EW-02 PUMP TEST (ECPZ-03 COOPER-JACOB)

PROJECT INFORMATION

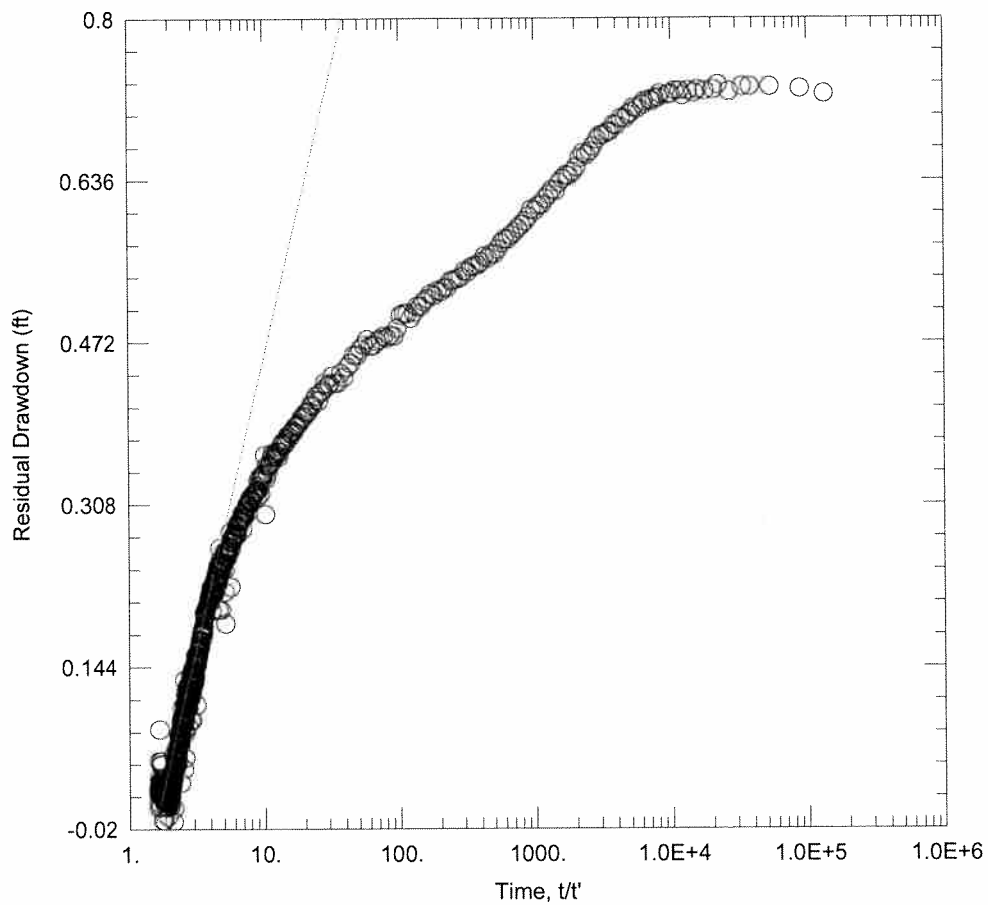
Company: Weston
 Client: Confidential
 Location: Cottage Grove, MN
 Test Well: EW-02
 Obs. Well: ECPZ-03
 Test Date: October 2008

AQUIFER DATA

Saturated Thickness: 120. ft Anisotropy Ratio (Kz/Kr): 1.

SOLUTION

Aquifer Model: Unconfined Solution Method: Cooper-Jacob
 T = 8.626E+4 ft²/day S = 0.01798



EW-02 PUMP TEST (ECPZ-03 THEIS RECOVERY)

PROJECT INFORMATION

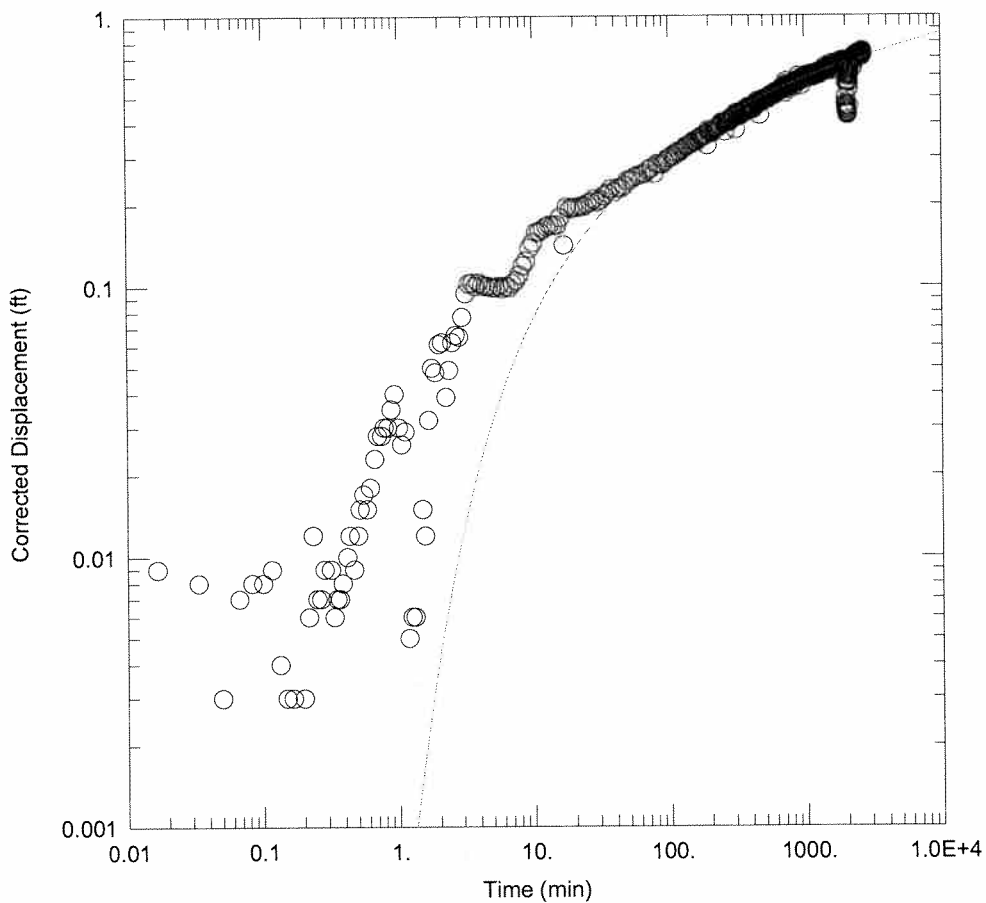
Company: Weston
 Client: Confidential
 Location: Cottage Grove, MN
 Test Well: EW-02
 Obs. Well: ECPZ-03
 Test Date: October 2008

AQUIFER DATA

Saturated Thickness: 120, ft Anisotropy Ratio (Kz/Kr): 1.

SOLUTION

Aquifer Model: Confined Solution Method: Theis (Recovery)
 $T = 4.776E+4 \text{ ft}^2/\text{day}$ $S/S' = 1.653$



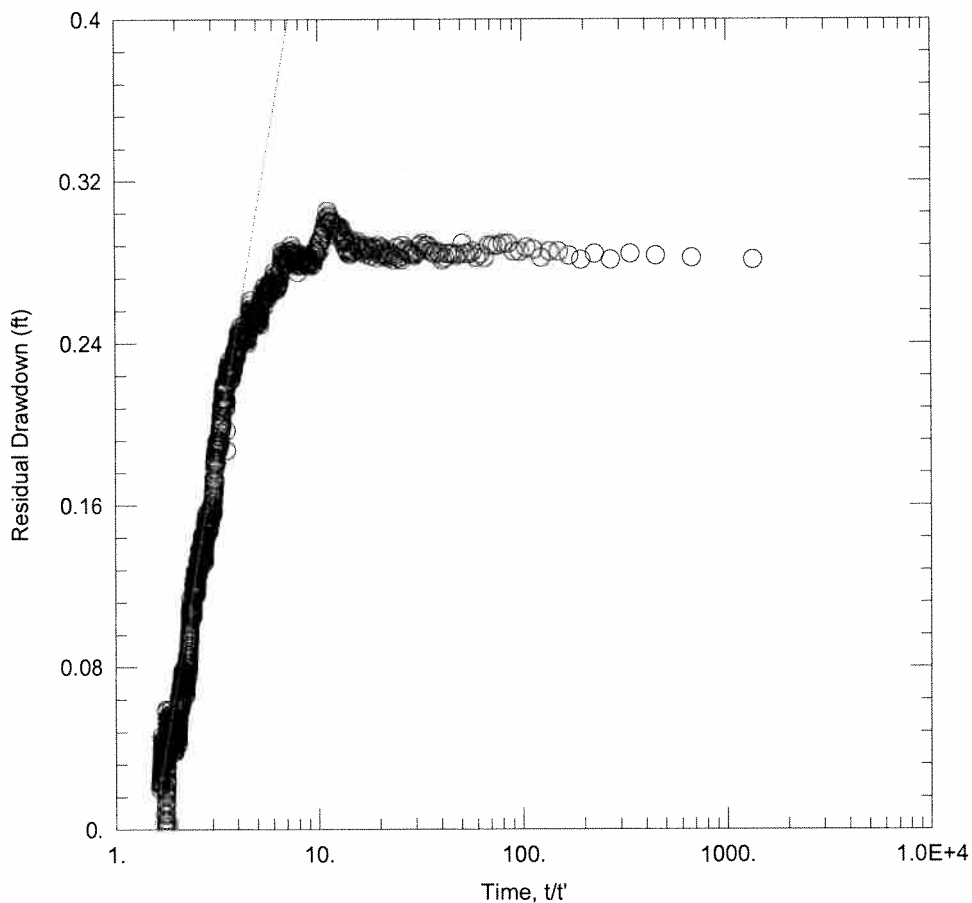
EW-03 PUMP TEST (ECPZ-03 THEIS DRAWDOWN)

PROJECT INFORMATION

Company: Weston
 Client: Confidential
 Location: Cottage Grove, MN
 Test Well: EW-02
 Obs. Well: ECPZ-01
 Test Date: October 2008

SOLUTION

Aquifer Model: <u>Unconfined</u>	Solution Method: <u>Theis</u>
T = <u>9.984E+4 ft²/day</u>	S = <u>0.01035</u>
Kz/Kr = <u>1.</u>	b = <u>120. ft</u>



EW-02 PUMP TEST (MW-101 THEIS RECOVERY)

PROJECT INFORMATION

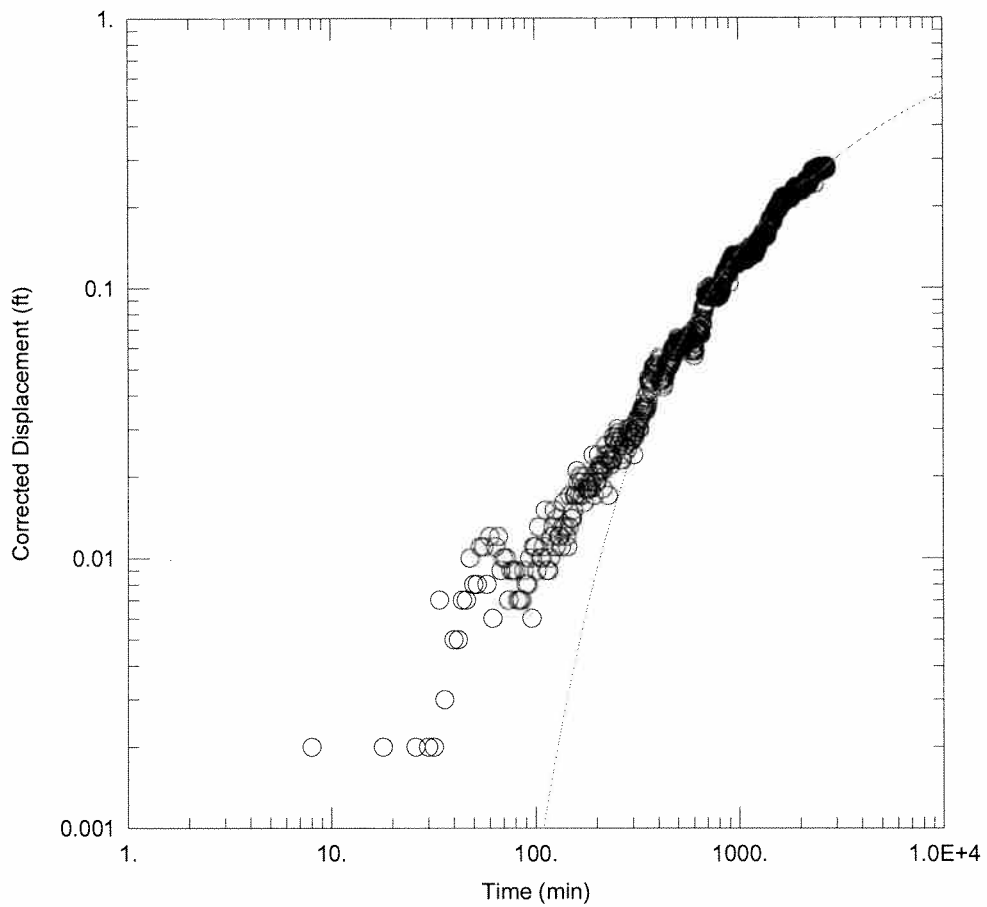
Company: Weston
Client: Confidential
Location: Cottage Grove, MN
Test Well: EW-02
Obs. Well: MW-101
Test Date: October 2008

AQUIFER DATA

Saturated Thickness: 120 ft Anisotropy Ratio (K_z/K_r): 1

SOLUTION

Aquifer Model: Confined Solution Method: Theis (Recovery)
T = 4.695E+4 ft²/day S/S' = 1.524



EW-02 PUMP TEST (MW-101 THEIS DRDN)

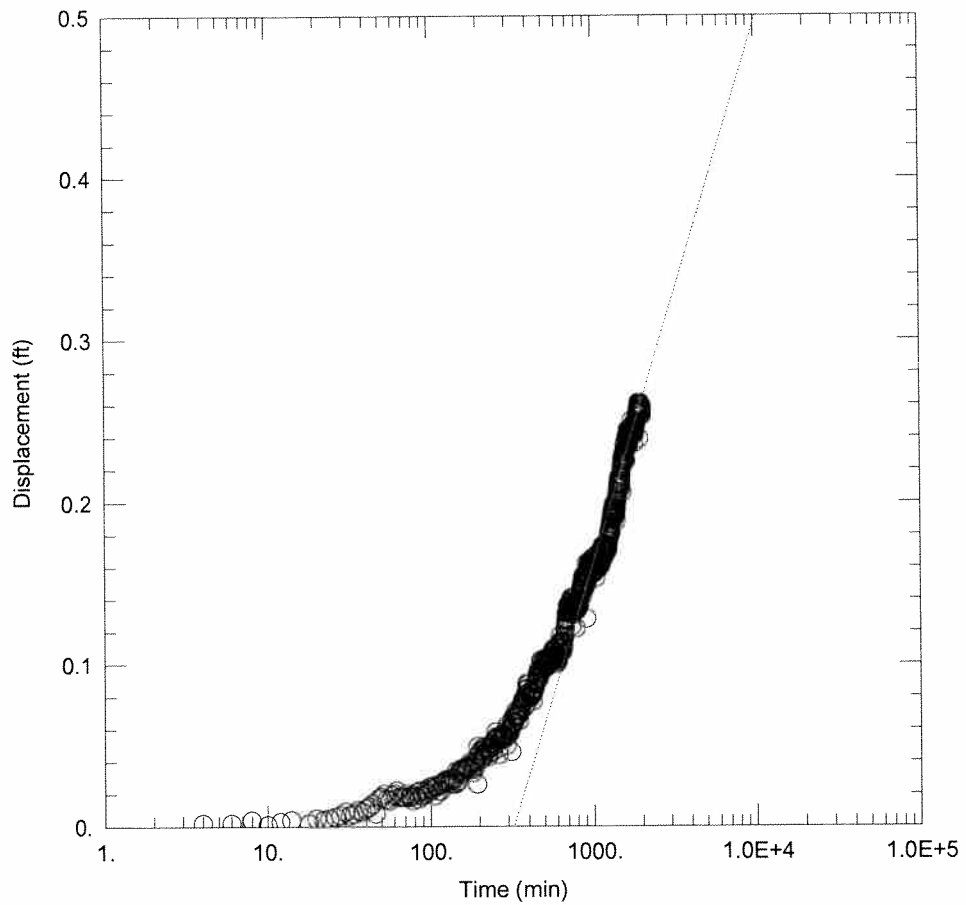
PROJECT INFORMATION

Company: Weston
 Client: Confidential
 Location: Cottage Grove, MN
 Test Well: EW-02
 Obs. Well: MW-101
 Test Date: October 2008

SOLUTION

Aquifer Model: Unconfined
 $T = 6.037E+4 \text{ ft}^2/\text{day}$
 $Kz/Kr = 1.$

Solution Method: Theis
 $S = 0.03982$
 $b = 120. \text{ ft}$



EW-02 PUMP TEST (MW-103 COOPER-JACOB)

PROJECT INFORMATION

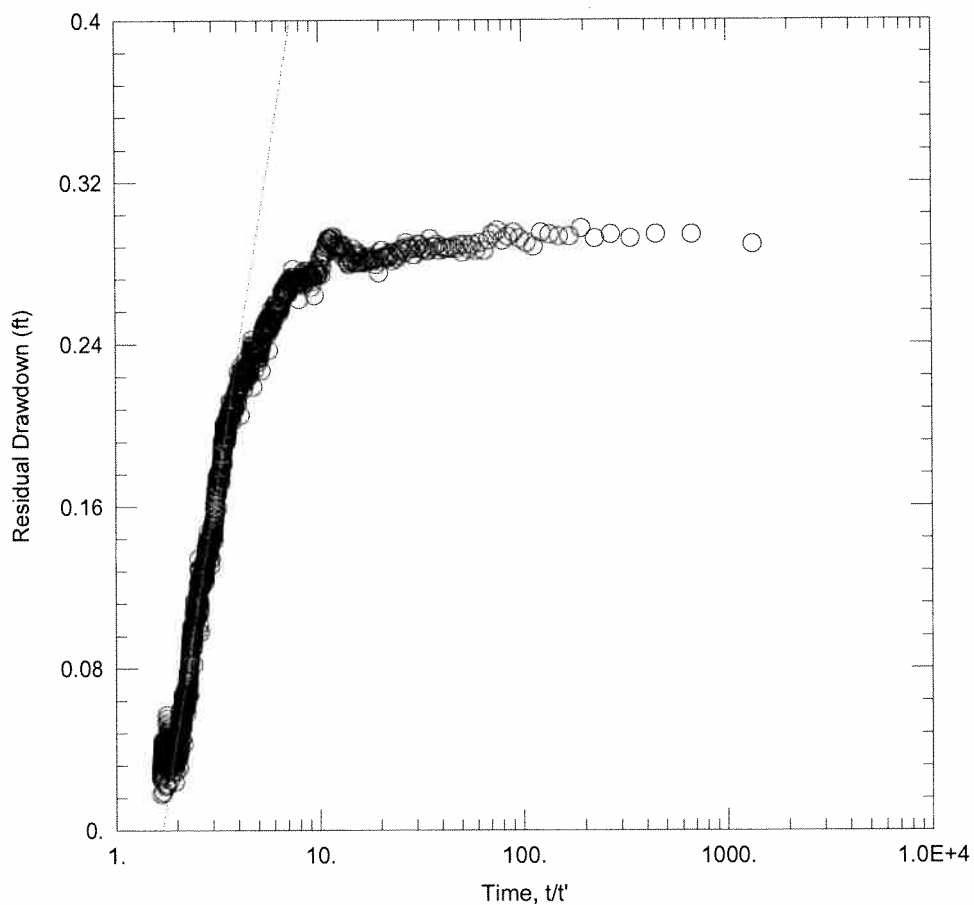
Company: Weston
Client: Confidential
Location: Cottage Grove, MN
Test Well: EW-02
Obs. Well: MW-103
Test Date: October 2008

AQUIFER DATA

Saturated Thickness: 120. ft Anisotropy Ratio (K_z/K_r): 1.

SOLUTION

Aquifer Model: Unconfined Solution Method: Cooper-Jacob
 $T = 8.391E+4 \text{ ft}^2/\text{day}$ $S = 0.02256$



EW-02 PUMP TEST (MW-103 THEIS RECOVERY)

PROJECT INFORMATION

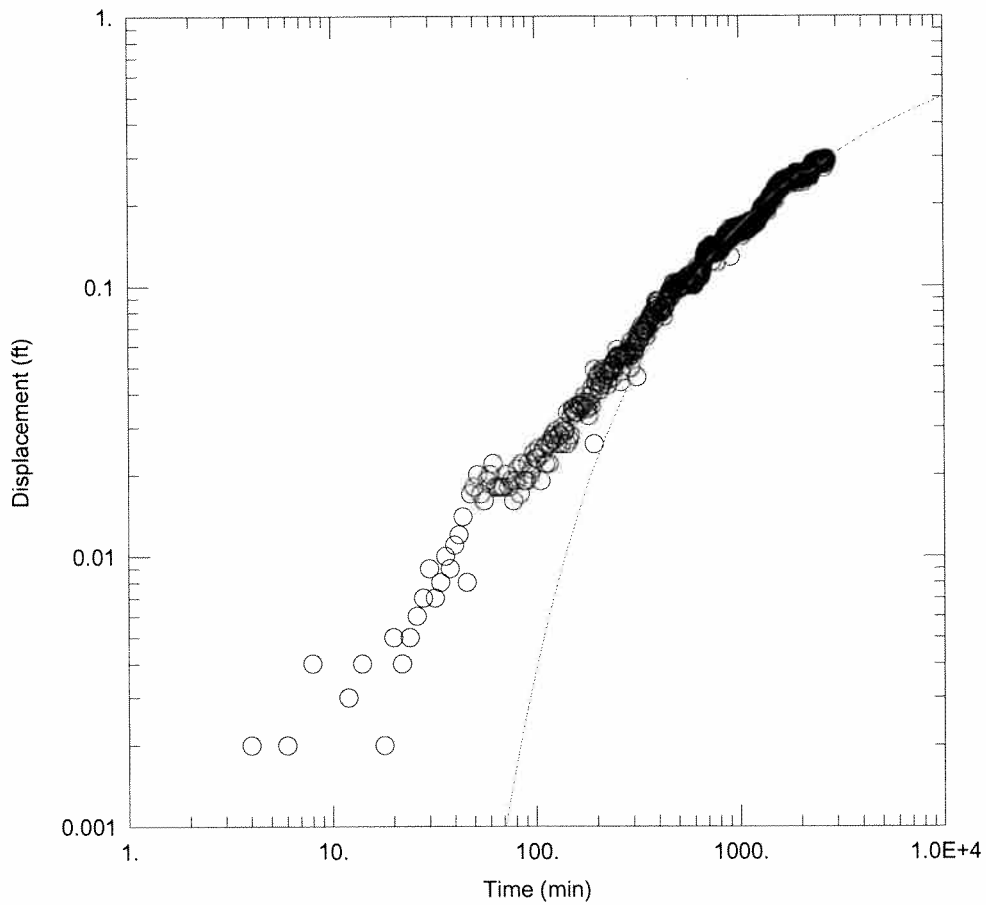
Company: Weston
 Client: Confidential
 Location: Cottage Grove, MN
 Test Well: EW-02
 Obs. Well: MW-103
 Test Date: October 2008

AQUIFER DATA

Saturated Thickness: 120. ft Anisotropy Ratio (K_z/K_r): 1.

SOLUTION

Aquifer Model: Confined Solution Method: Theis (Recovery)
 $T = 4.415E+4 \text{ ft}^2/\text{day}$ $S/S' = 1.688$



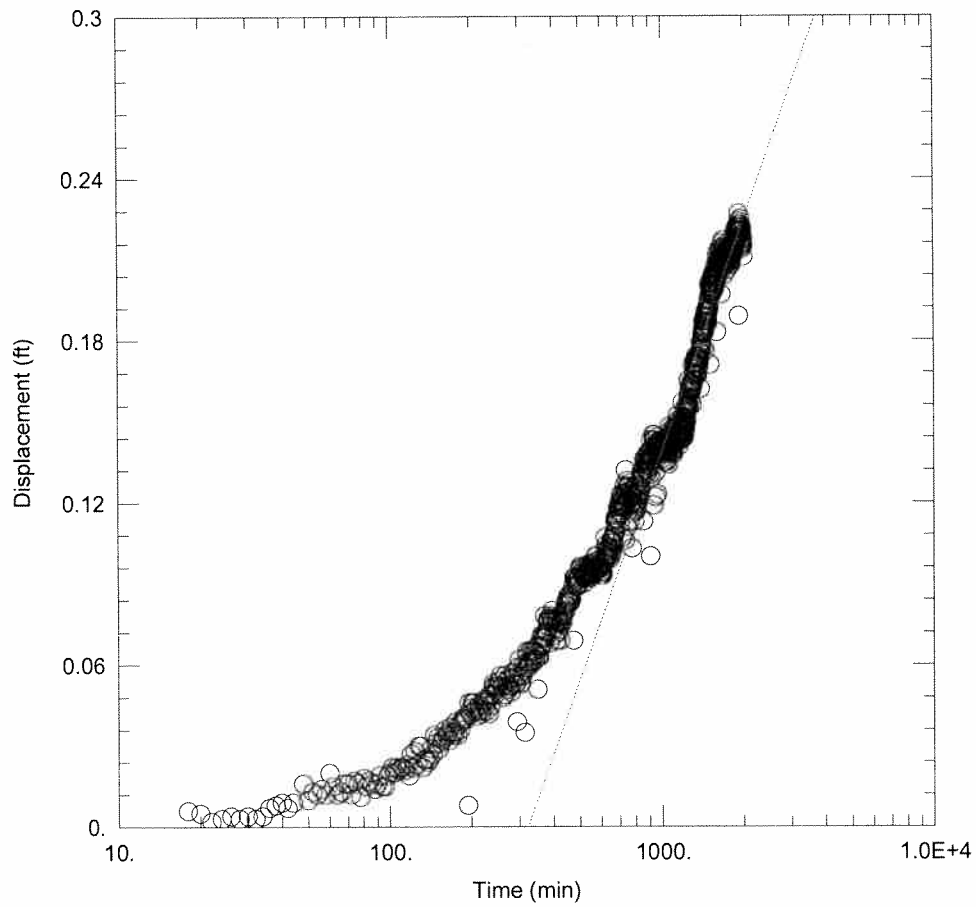
EW-02 PUMP TEST (MW-103 THEIS DRDN)

PROJECT INFORMATION

Company: Weston
 Client: Confidential
 Location: Cottage Grove, MN
 Test Well: EW-02
 Obs. Well: MW-103
 Test Date: October 2008

SOLUTION

Aquifer Model: <u>Unconfined</u>	Solution Method: <u>Theis</u>
T = <u>7.524E+4 ft²/day</u>	S = <u>0.02831</u>
Kz/Kr = <u>1.</u>	b = <u>120. ft</u>



EW-02 PUMP TEST (MW-104 COOPER-JACOB)

PROJECT INFORMATION

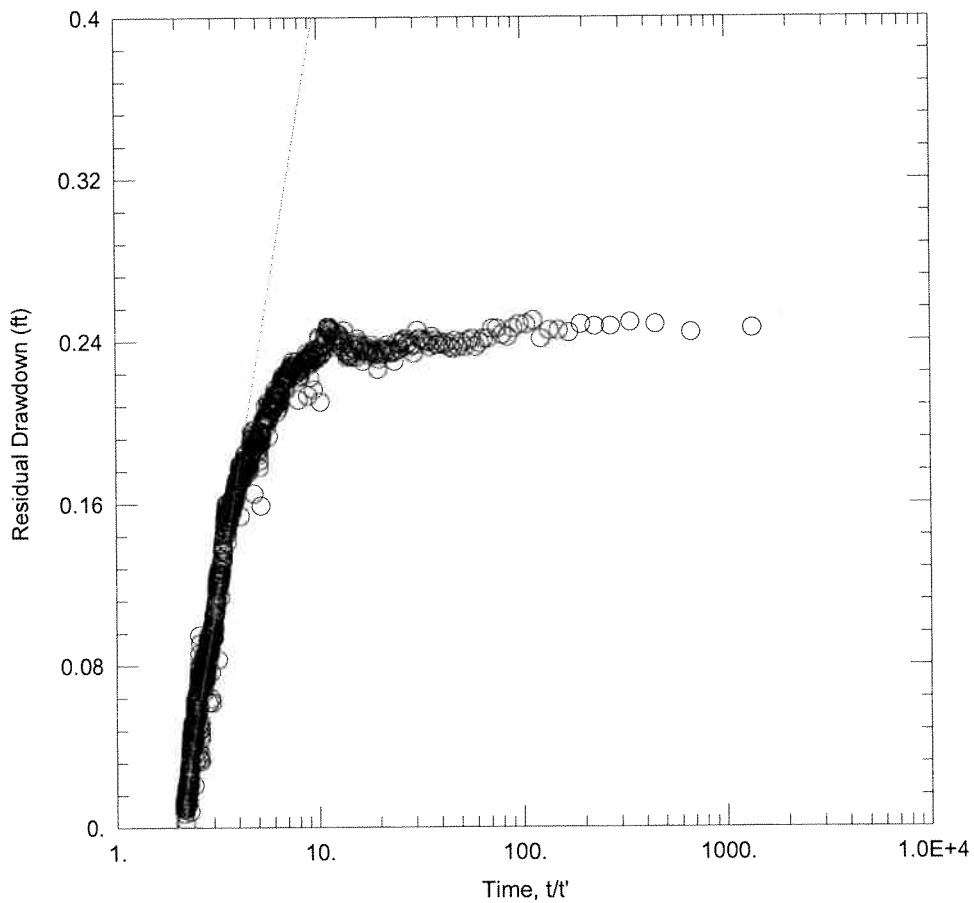
Company: Weston
 Client: Confidential
 Location: Cottage Grove, MN
 Test Well: EW-02
 Obs. Well: MW-104
 Test Date: October 2008

AQUIFER DATA

Saturated Thickness: 120. ft Anisotropy Ratio (K_z/K_r): 1.

SOLUTION

Aquifer Model: Unconfined Solution Method: Cooper-Jacob
 $T = 9.871E+4 \text{ ft}^2/\text{day}$ $S = 0.02308$



EW-02 PUMP TEST (MW-104 THEIS RECOVERY)

PROJECT INFORMATION

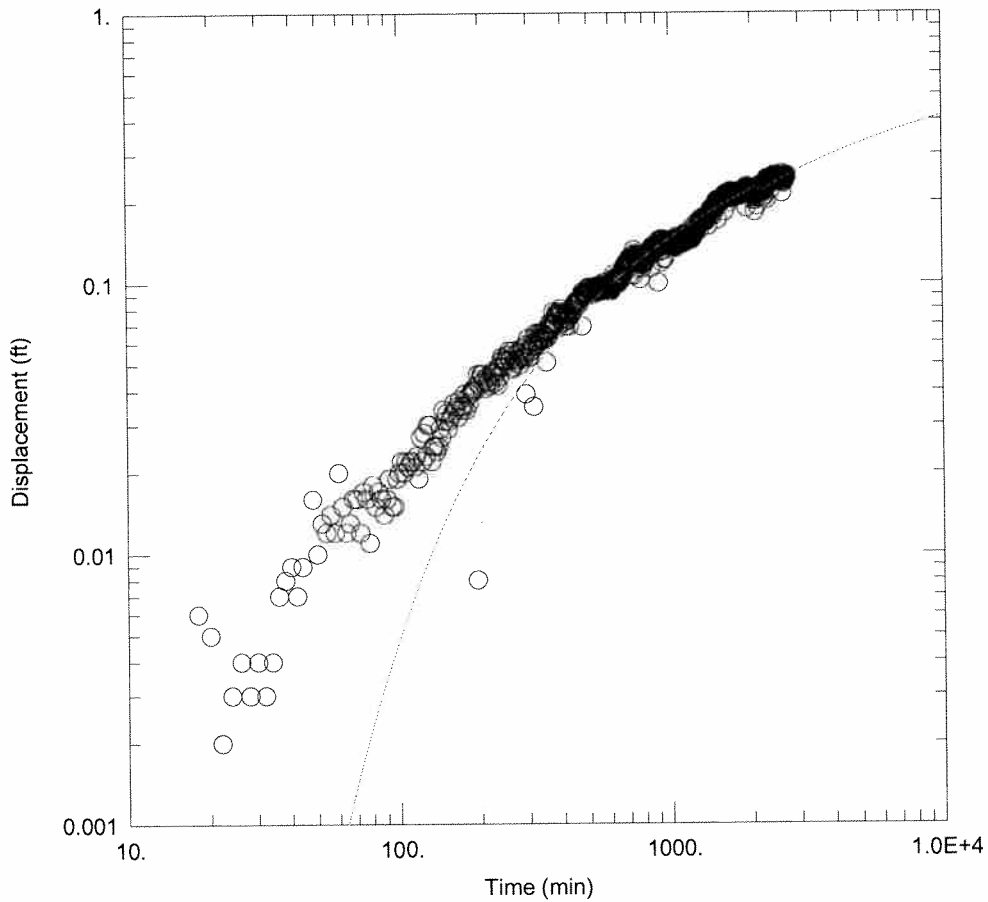
Company: Weston
 Client: Confidential
 Location: Cottage Grove, MN
 Test Well: EW-02
 Obs. Well: MW-104
 Test Date: October 2008

AQUIFER DATA

Saturated Thickness: 120. ft Anisotropy Ratio (Kz/Kr): 1.

SOLUTION

Aquifer Model: Confined Solution Method: Theis (Recovery)
 $T = 4.687E+4 \text{ ft}^2/\text{day}$ $S/S' = 2.026$



EW-02 PUMP TEST (MW-104 THEIS DRDN)

PROJECT INFORMATION

Company: Weston
 Client: Confidential
 Location: Cottage Grove, MN
 Test Well: EW-02
 Obs. Well: MW-104
 Test Date: October 2008

SOLUTION

Aquifer Model: <u>Unconfined</u>	Solution Method: <u>Theis</u>
T = <u>9.56E+4 ft²/day</u>	S = <u>0.02694</u>
Kz/Kr = <u>1.</u>	b = <u>120. ft</u>