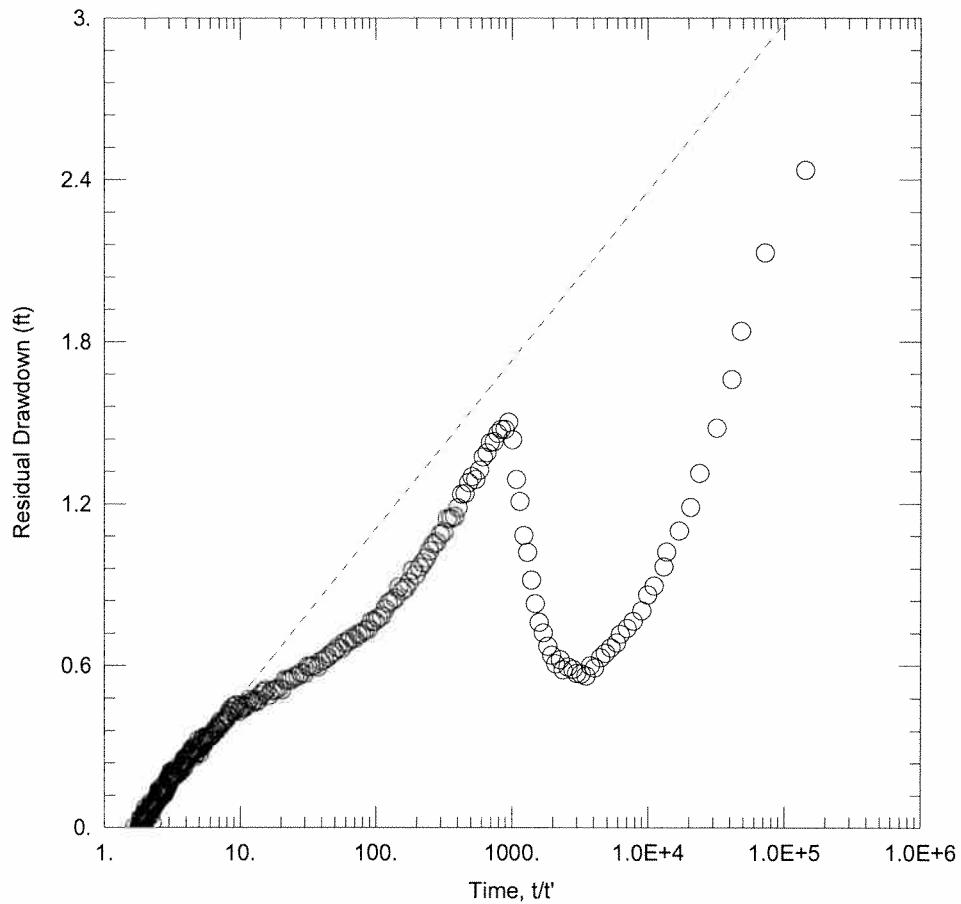




APPENDIX F
EW-01 PUMP TEST DATA ANALYSES



WELL TEST ANALYSIS

PROJECT INFORMATION

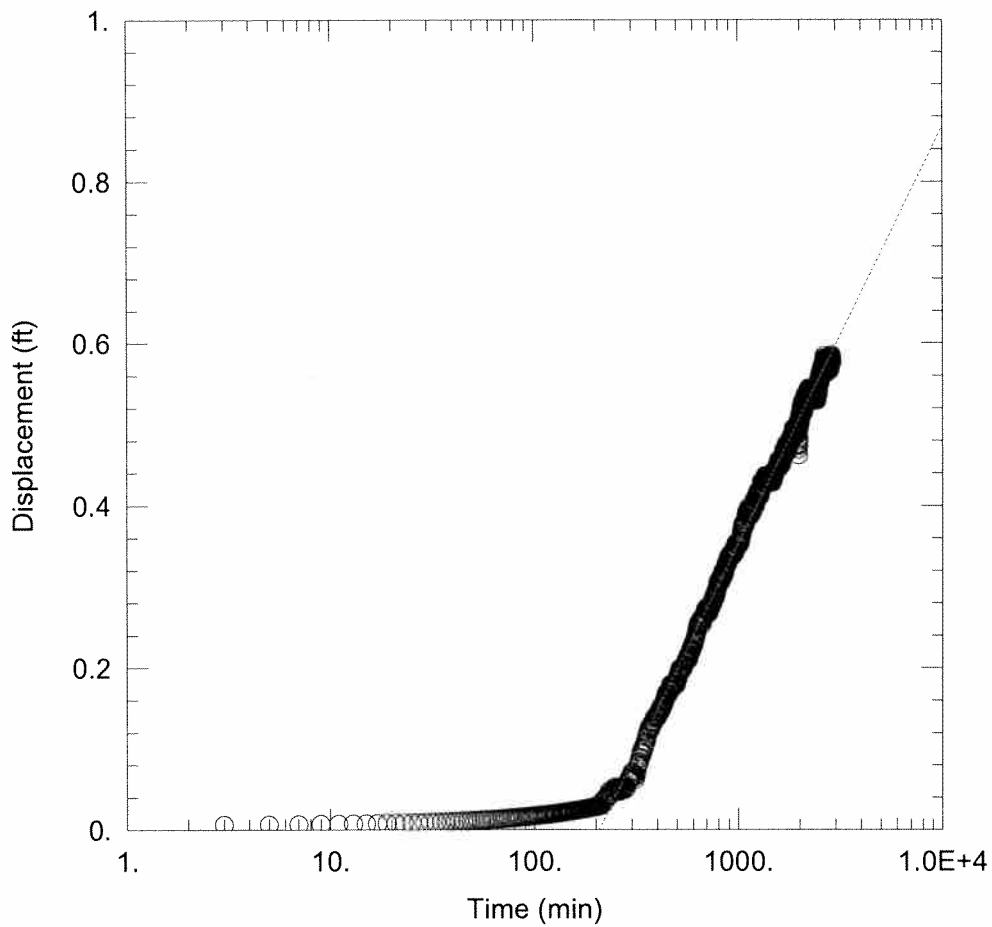
Company: Weston
 Client: Confidential
 Location: Cottage Grove, MN
 Test Well: EW-01
 Obs. Well: EW-01
 Test Date: October 2008

AQUIFER DATA

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

SOLUTION

Aquifer Model: Confined Solution Method: Theis (Recovery)
 $T = 4.407E+4 \text{ ft}^2/\text{day}$ $S/S' = 1.686$



EW-01 PUMP TEST (MW-101)

PROJECT INFORMATION

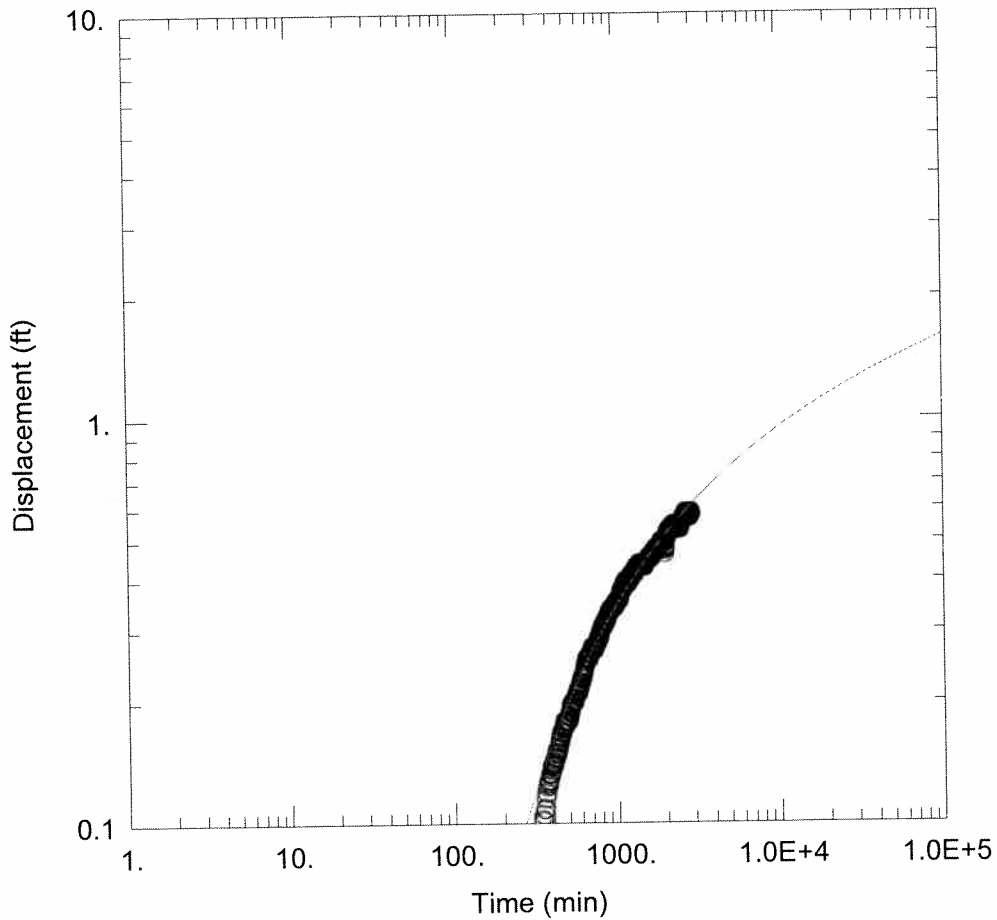
Company: Weston
 Client: Confidential
 Location: Cottage Grove, MN
 Test Well: EW-01
 Obs. Well: MW-101
 Test Date: October 2008

AQUIFER DATA

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

SOLUTION

Aquifer Model: Confined Solution Method: Cooper-Jacob
 T = 5.334E+4 ft²/day S = 0.0229



EW-01 PUMP TEST (MW-101)

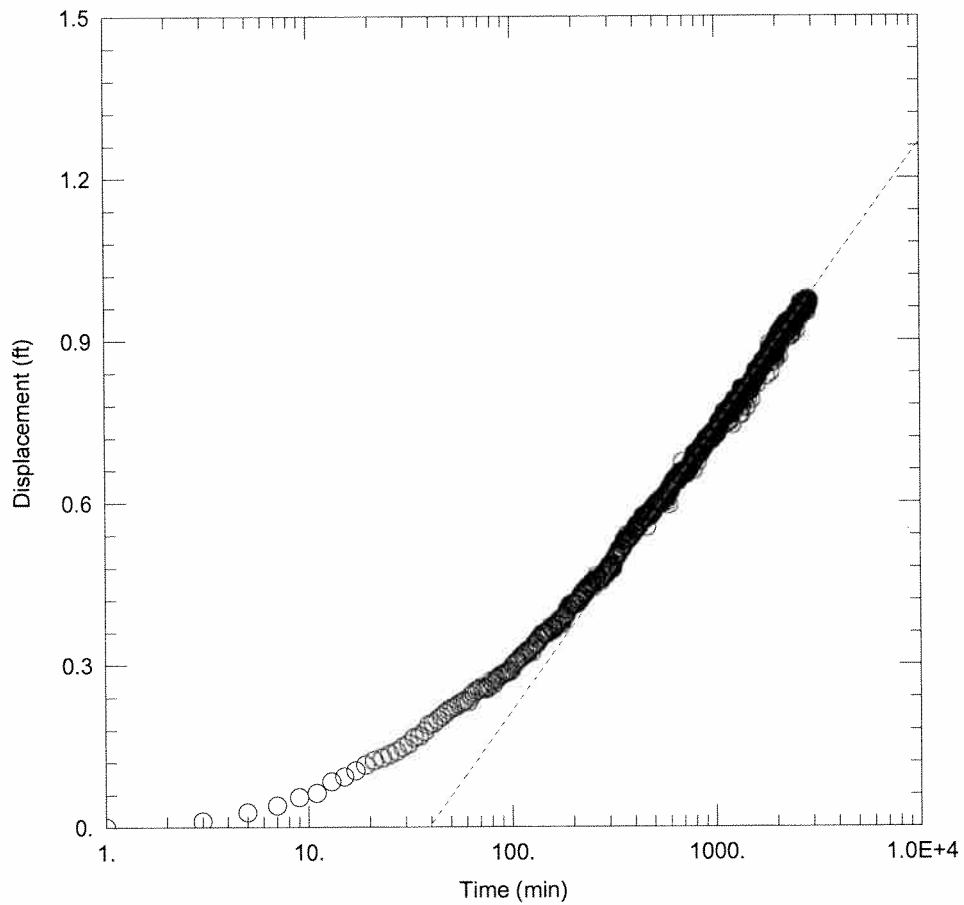
PROJECT INFORMATION

Company: Weston
 Client: Confidential
 Location: Cottage Grove, MN
 Test Well: EW-01
 Obs. Well: MW-101
 Test Date: October 2008

SOLUTION

Aquifer Model: Confined
 $T = 4.285E+4 \text{ ft}^2/\text{day}$
 $Kz/Kr = 1.$

Solution Method: Theis
 $S = 0.03063$
 $b = 120. \text{ ft}$



EW-01 PUMP TEST (MW-104)

PROJECT INFORMATION

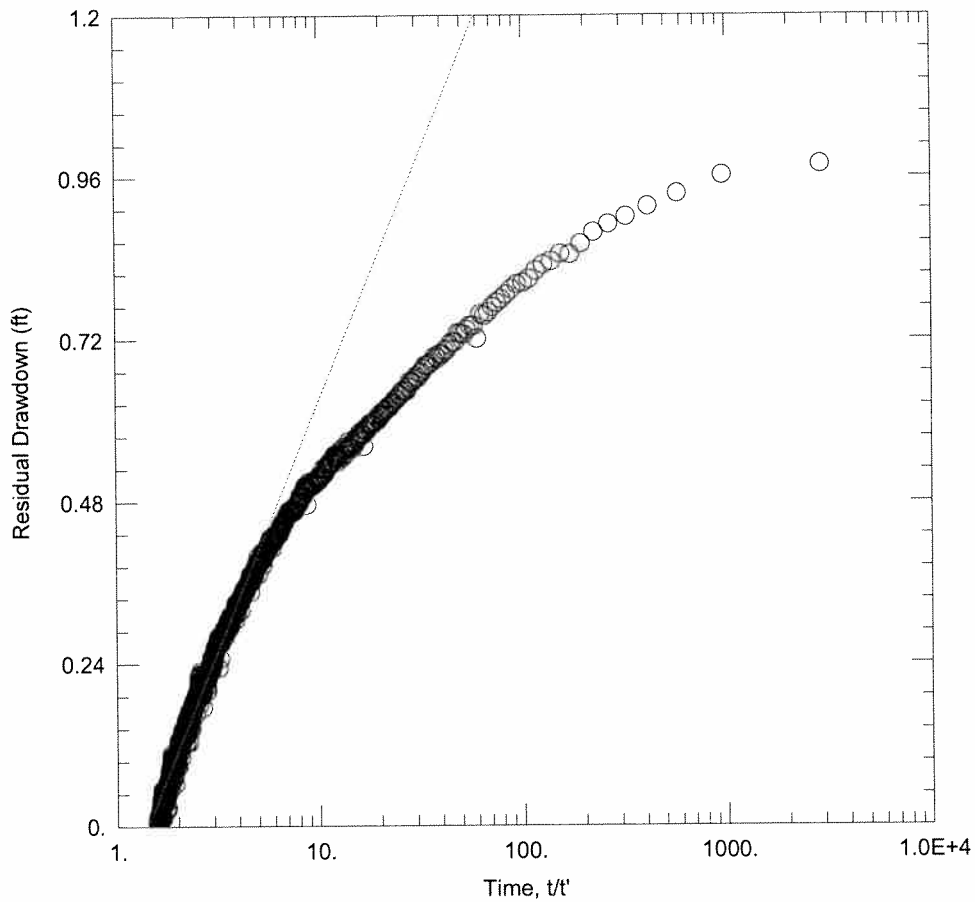
Company: Weston
 Client: Confidential
 Location: Cottage Grove, MN
 Test Well: EW-01
 Obs. Well: MW-104
 Test Date: October 2008

AQUIFER DATA

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

SOLUTION

Aquifer Model: Unconfined Solution Method: Cooper-Jacob
 T = 5.23E+4 ft²/day S = 0.007311



EW-01 PUMP TEST (MW-104)

PROJECT INFORMATION

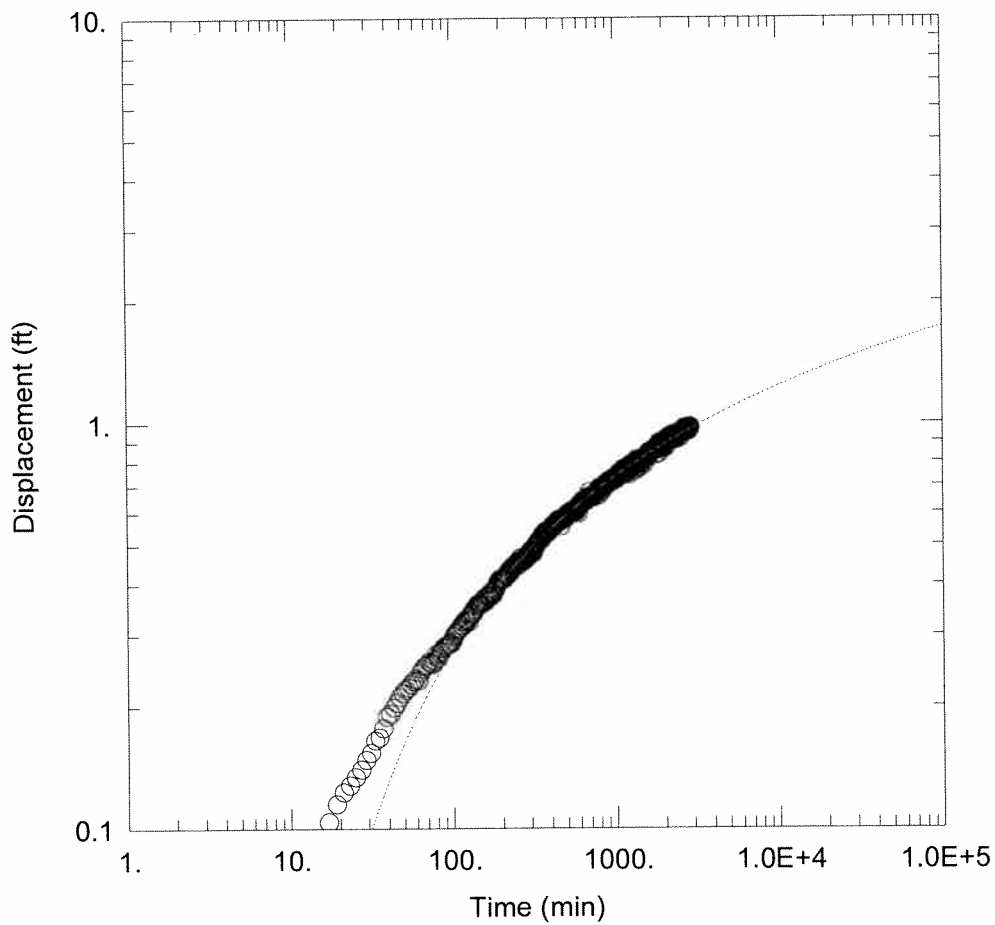
Company: Weston
 Client: Confidential
 Location: Cottage Grove, MN
 Test Well: EW-01
 Obs. Well: MW-104
 Test Date: October 2008

AQUIFER DATA

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

SOLUTION

Aquifer Model: Confined Solution Method: Theis (Recovery)
 $T = 3.72E+4 \text{ ft}^2/\text{day}$ $S/S' = 1.406$



EW-01 PUMP TEST (MW-104)

PROJECT INFORMATION

Company: Weston
 Client: Confidential
 Location: Cottage Grove, MN
 Test Well: EW-01
 Obs. Well: MW-104
 Test Date: October 2008

SOLUTION

Aquifer Model: Unconfined

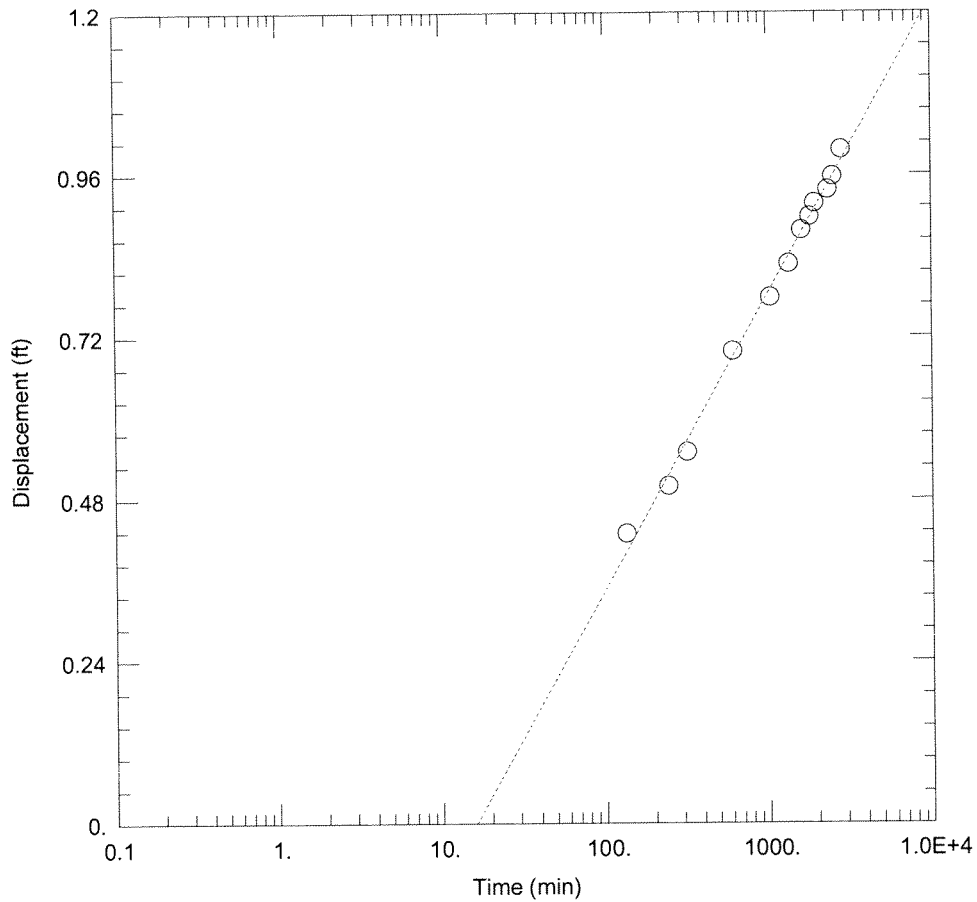
Solution Method: Theis

T = 5.561E+4 ft²/day

S = 0.008766

Kz/Kr = 1.

b = 120. ft



WELL TEST ANALYSIS

PROJECT INFORMATION

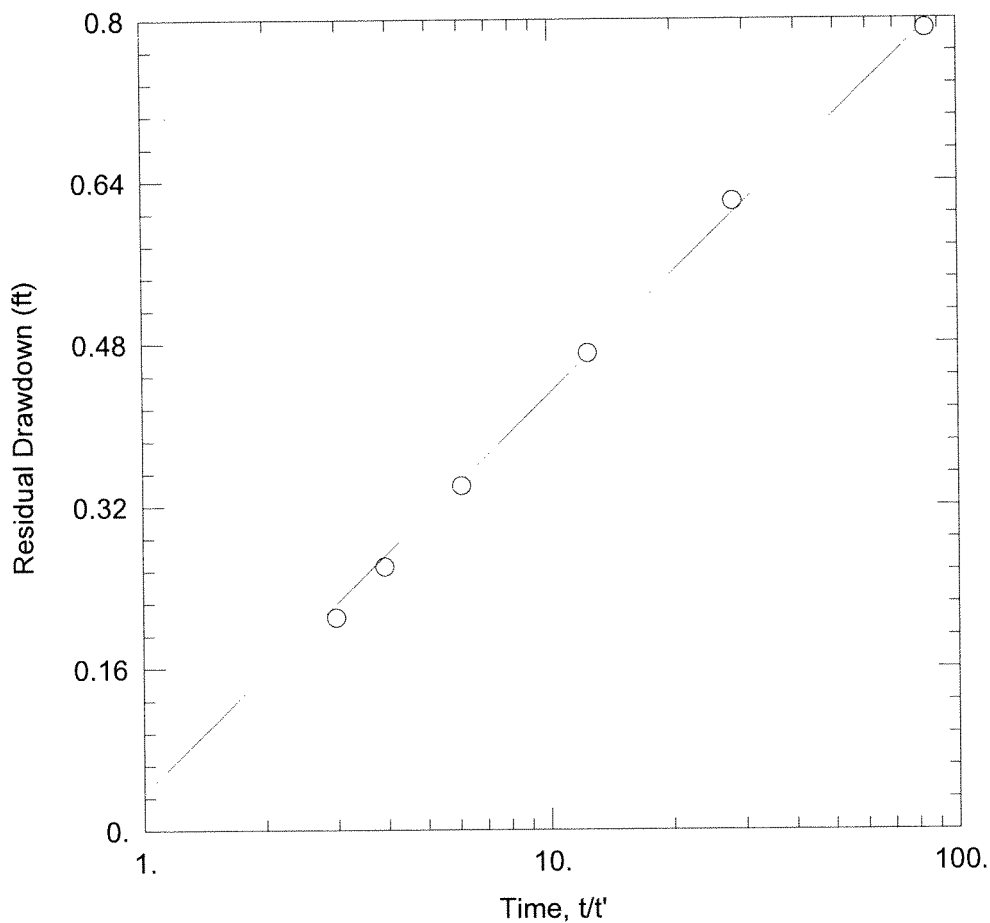
Company: Weston
 Client: Confidential
 Location: Cottage Grove, MN
 Test Well: EW-01
 Obs. Well: MW-108
 Test Date: October 2008

AQUIFER DATA

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

SOLUTION

Aquifer Model: Unconfined Solution Method: Cooper-Jacob
 T = 6.321E+4 ft²/day S = 0.003805



MW-108 THEIS RECOVERY

PROJECT INFORMATION

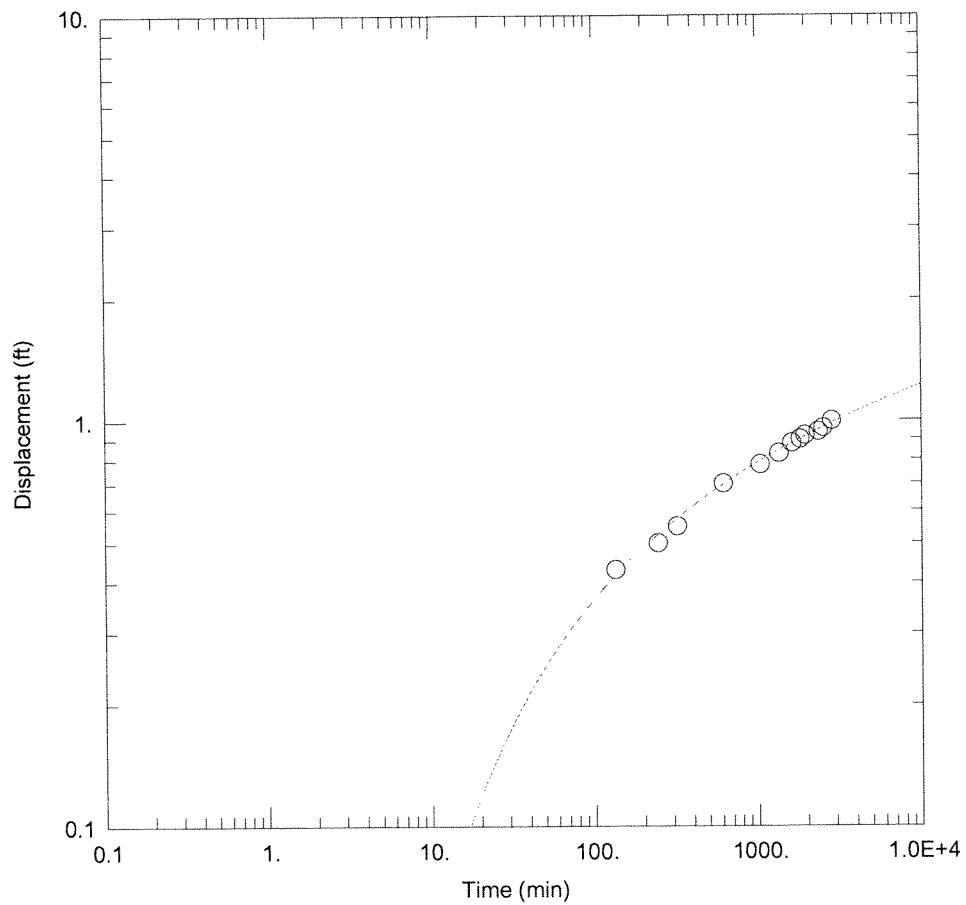
Company: Weston
 Client: Confidential
 Location: Cottage Grove, MN
 Test Well: EW-01
 Obs. Well: MW-108
 Test Date: October 2008

AQUIFER DATA

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

SOLUTION

Aquifer Model: Confined Solution Method: Theis (Recovery)
 $T = 6.986E+4 \text{ ft}^2/\text{day}$ $S/S' = 0.8067$



MW-108 THEIS DRAWDOWN

PROJECT INFORMATION

Company: Weston
 Client: Confidential
 Location: Cottage Grove, MN
 Test Well: EW-01
 Obs. Well: MW-108
 Test Date: October 2008

SOLUTION

Aquifer Model: <u>Unconfined</u>	Solution Method: <u>Theis</u>
T = <u>6.307E+4 ft²/day</u>	S = <u>0.003784</u>
Kz/Kr = <u>1.</u>	b = <u>120. ft</u>