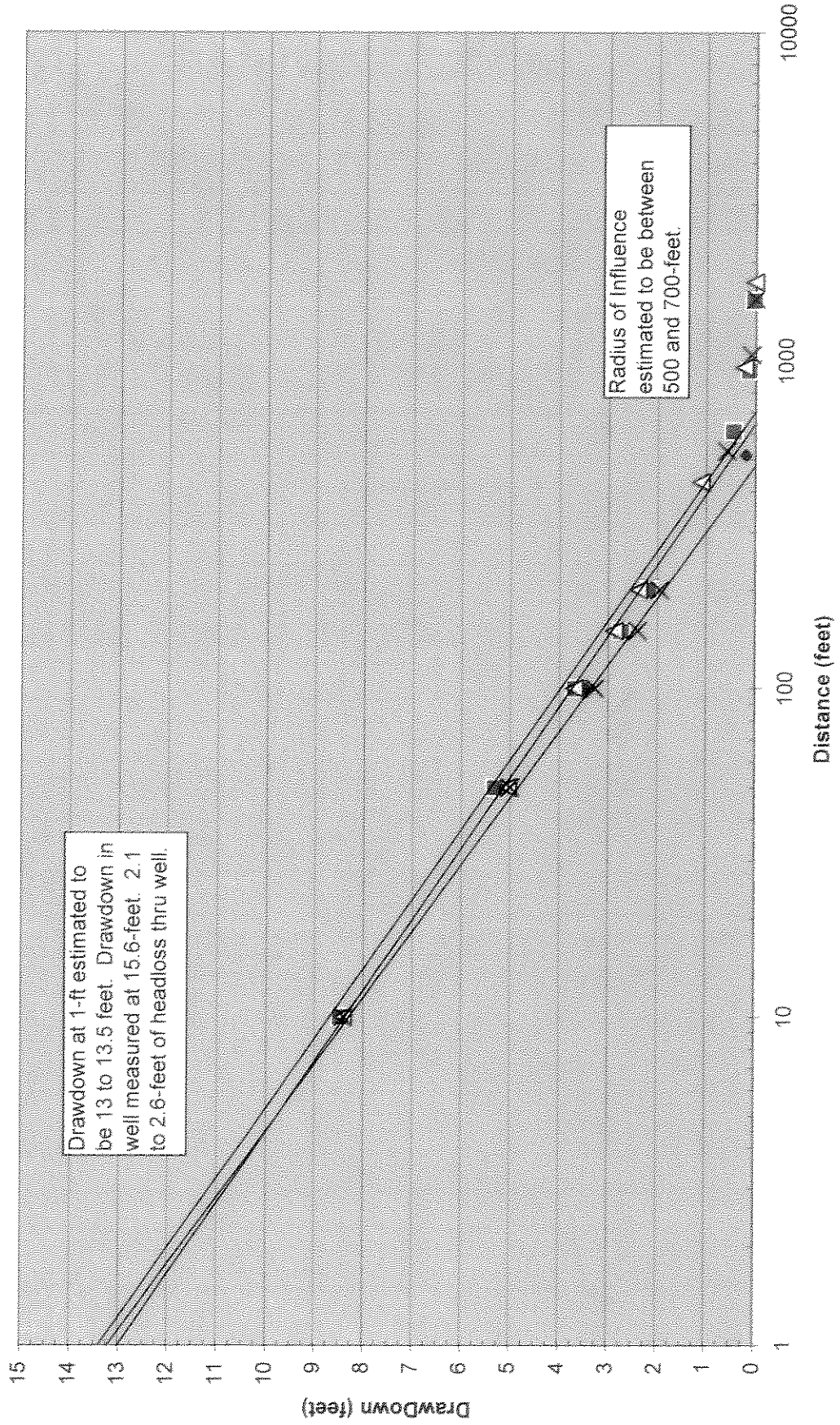


Distance vs Drawdown Plot

Distance vs DrawDown



Permeability Computations – North Transect
Observation Wells

PROJECT	Page <u> </u> of <u> </u>	COMPUTED BY	DATE
SUBJECT		CHECKED BY	DATE

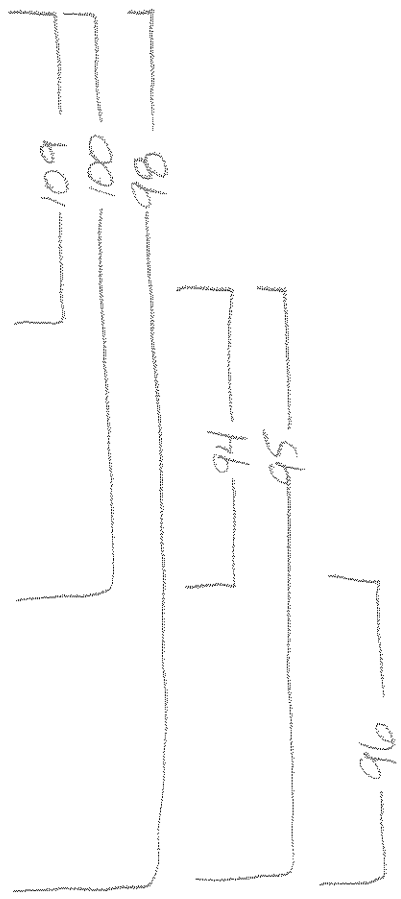
North Transect (100') (150') (200')
 (50') (100') (150')
 n10 n11 n12 n13 n14

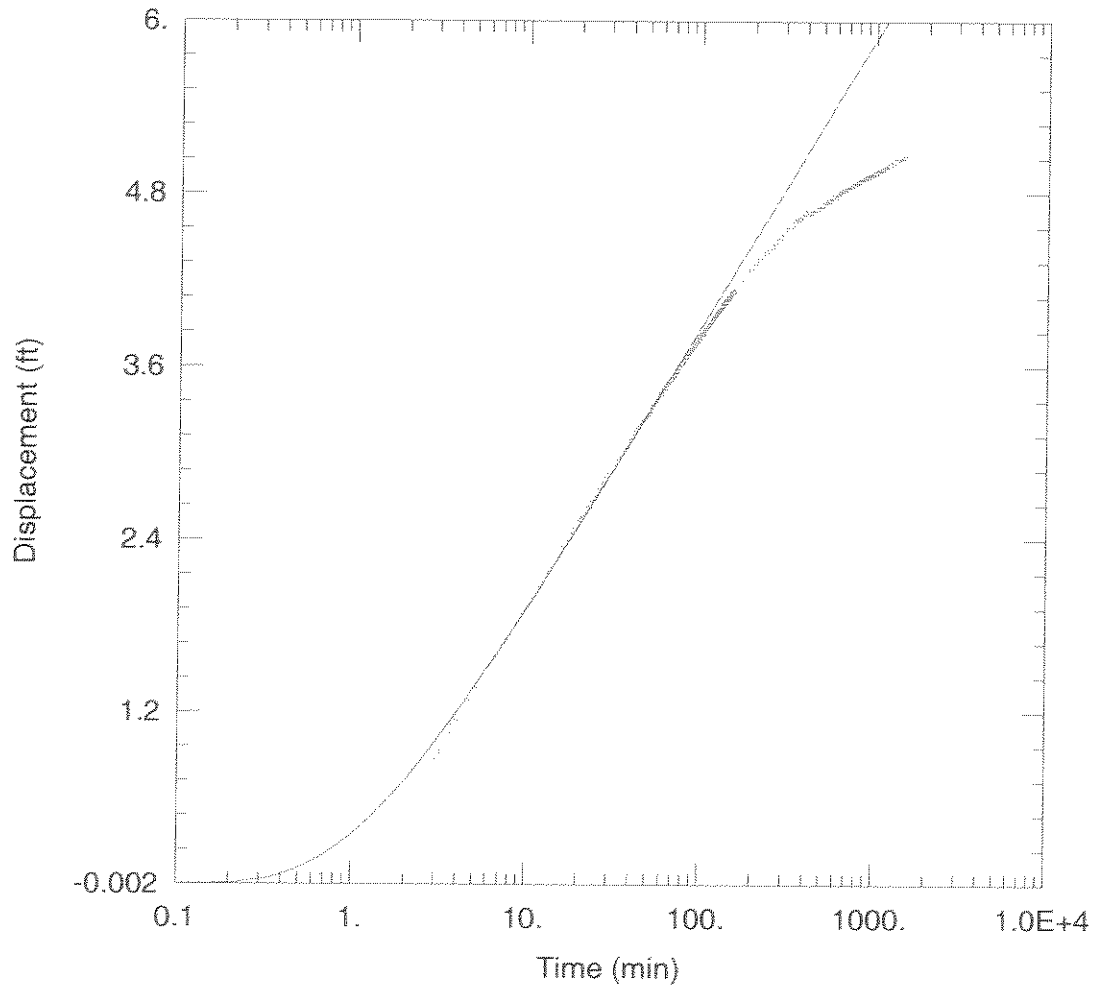
Theris 108 113 136 136 179

Coop Jac 113 170 149 163

Therim

Recurring (Theris) 136 136 156 179





WELL TEST ANALYSIS

Data Set: W:\...\North transect n12 at 1 1480 minutes Thisis.aqt
 Date: 04/06/06 Time: 15:48:44

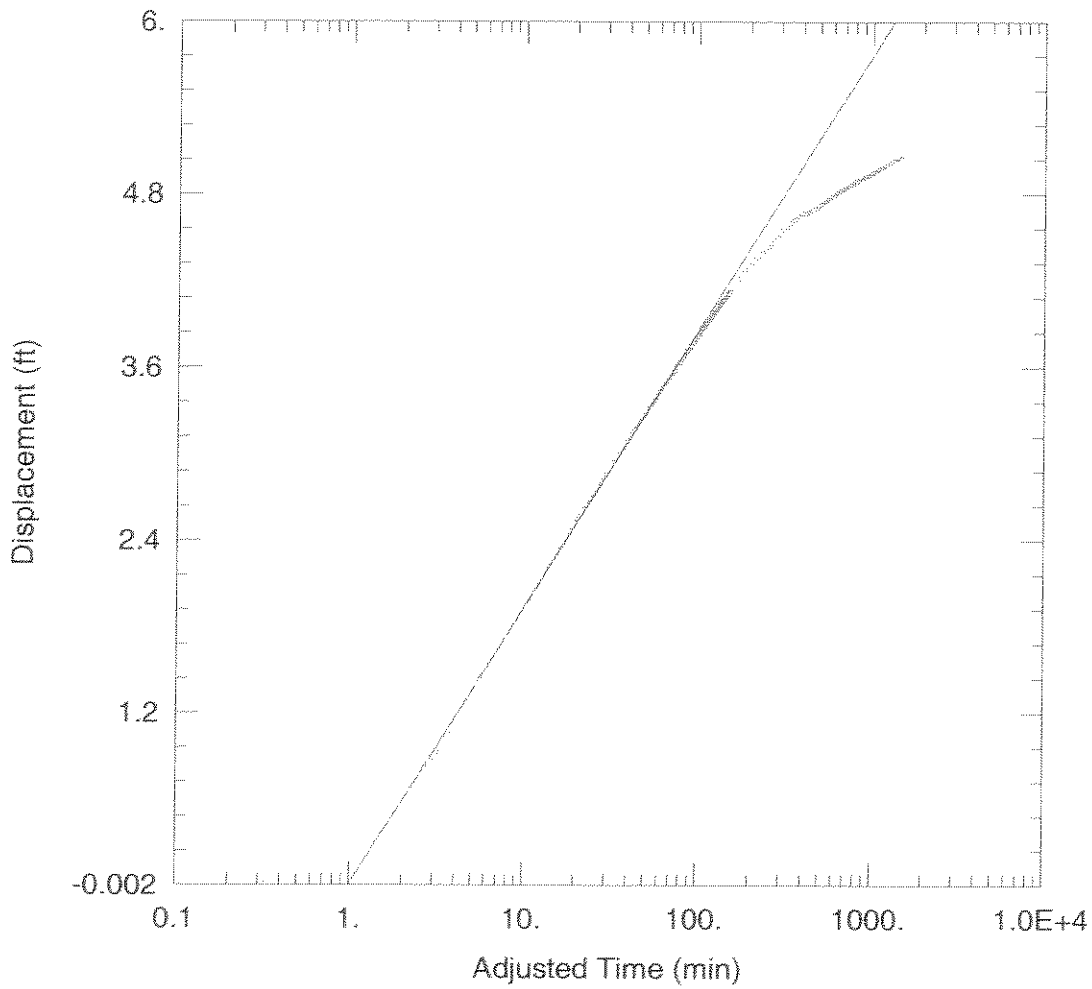
WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	n10	50	0

SOLUTION

Aquifer Model: <u>Confined</u>	Solution Method: <u>Thisis</u>
T = <u>9.235</u> cm ² /sec	S = <u>0.0006406</u>
Kz/Kr = <u>1.</u>	b = <u>28.</u> ft

$$K = 100 \times 10^{-4} \text{ c/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\North transect n10 at 1 1480 minutes Theis.agt
 Date: 04/06/06 Time: 15:49:45

AQUIFER DATA

Saturated Thickness: 28. ft Anisotropy Ratio (Kz/Kr): 1.

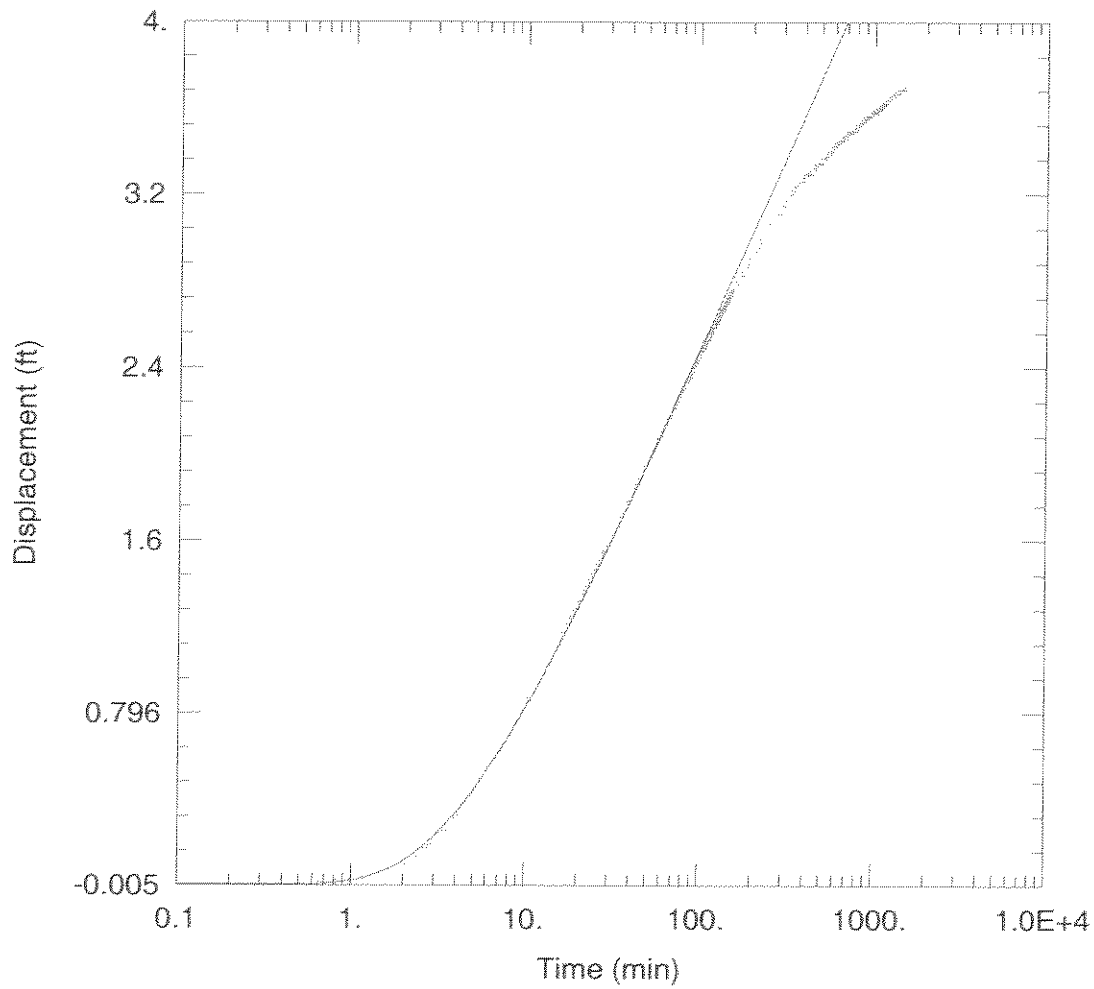
WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	n10	50	0

SOLUTION

Aquifer Model: Confined Solution Method: Cooper-Jacob
 T = 9.671 cm²/sec S = 0.0005579

$K = 113 \times 10^{-4} \text{ c/s}$



WELL TEST ANALYSIS

Data Set: W:\...\North transect n11 at1 1480 minutes CoopJac.aqt

Date: 04/06/06

Time: 15:52:39

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	n11	100	0

SOLUTION

Aquifer Model: Confined

Solution Method: Theis

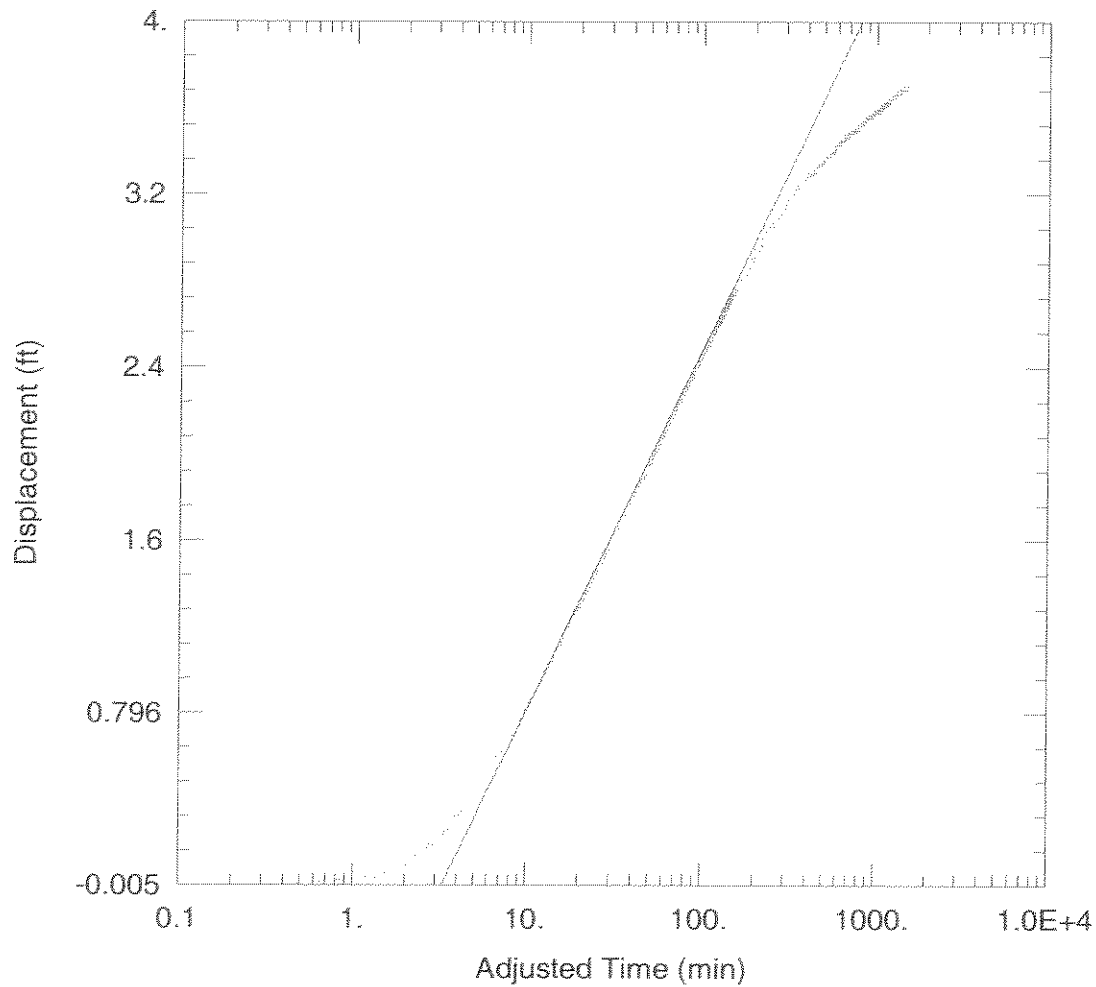
T = 10.13 cm²/sec

S = 0.0006707

Kz/Kr = 1.

b = 28. ft

$$K = 118 \times 10^{-4} \text{ c/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\North transect n10 at1 1480 minutes CoopJac.aqt

Date: 04/06/06

Time: 15:51:45

AQUIFER DATA

Saturated Thickness: 28. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
n11	100	0

SOLUTION

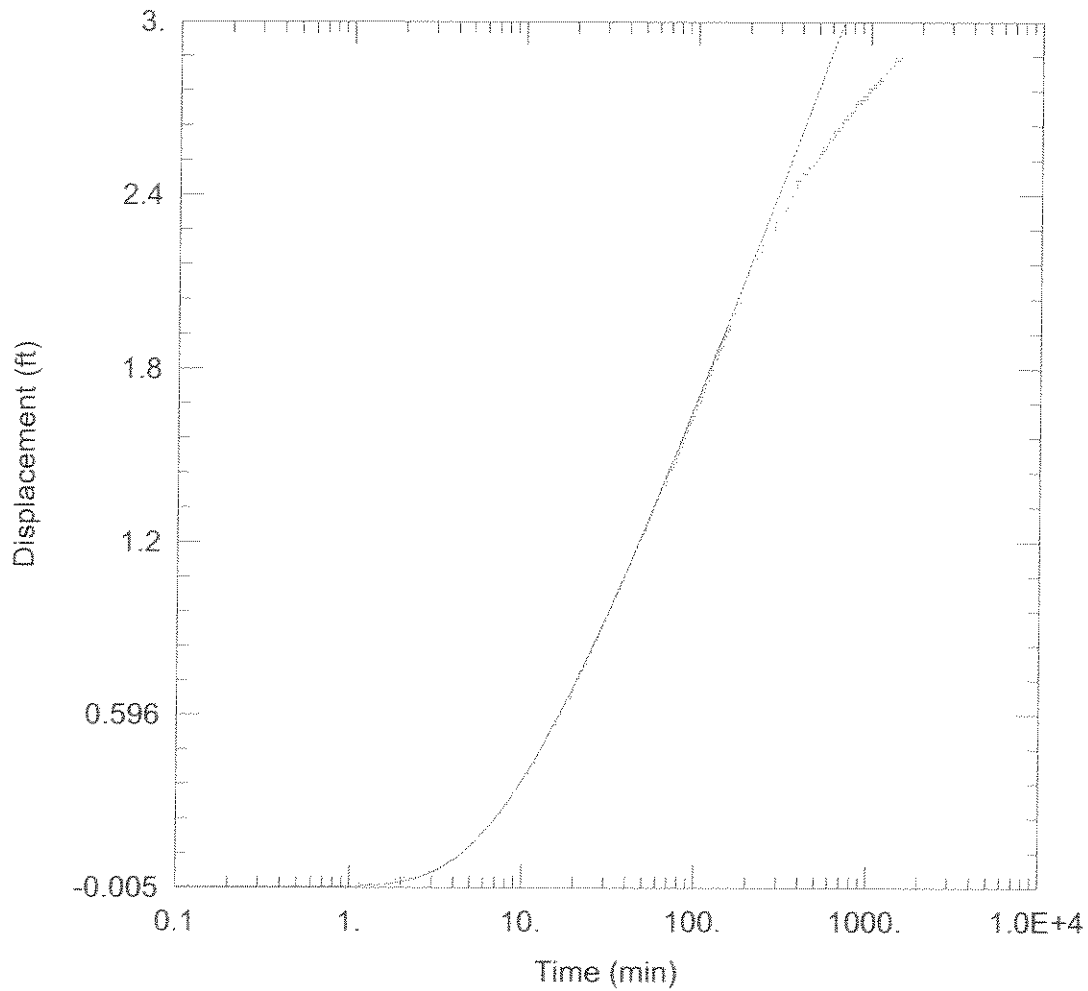
Aquifer Model: Confined

Solution Method: Cooper-Jacob

T = 11.1 cm²/sec

S = 0.0005328

$$K = 130 \times 10^{-4} \text{ c/s}$$



WELL TEST ANALYSIS

Data Set: C:\...\North transect n12 at 1480 minutes Theis.aqt
 Date: 03/07/06 Time: 20:23:38

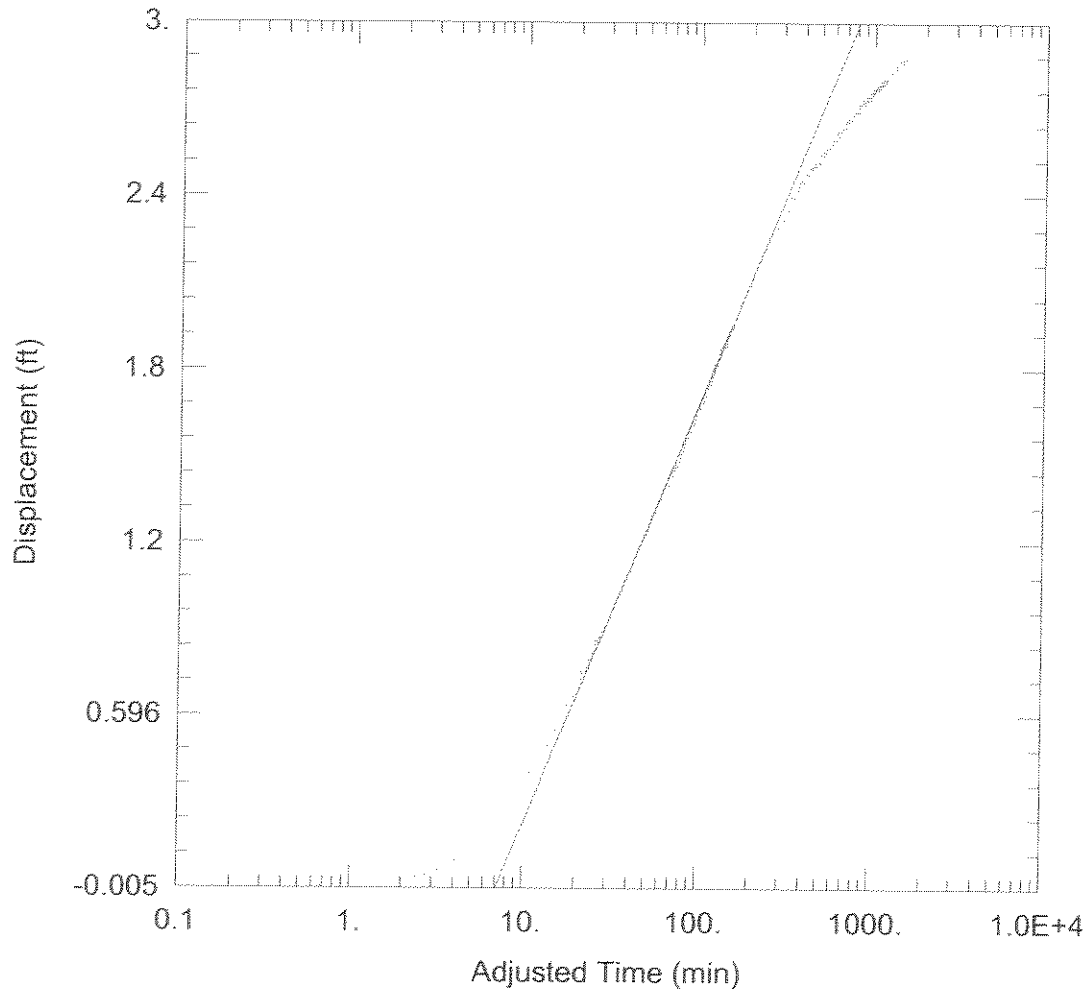
WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	n12	150	0

SOLUTION

Aquifer Model: <u>Confined</u>	Solution Method: <u>Theis</u>
T = <u>11.63</u> cm ² /sec	S = <u>0.0007024</u>
Kz/Kr = <u>1.</u>	b = <u>28.</u> ft

$b = 853.44 \text{ cm}$
 $K = 136 \times 10^{-4} \text{ cm/s}$



WELL TEST ANALYSIS

Data Set: C:\...\North transect n12 at 1480 minutes CoopJac.aqt

Date: 03/07/06

Time: 20:23:26

AQUIFER DATA

Saturated Thickness: 28 ft

Anisotropy Ratio (Kz/Kr): 1

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	n12	150	0

SOLUTION

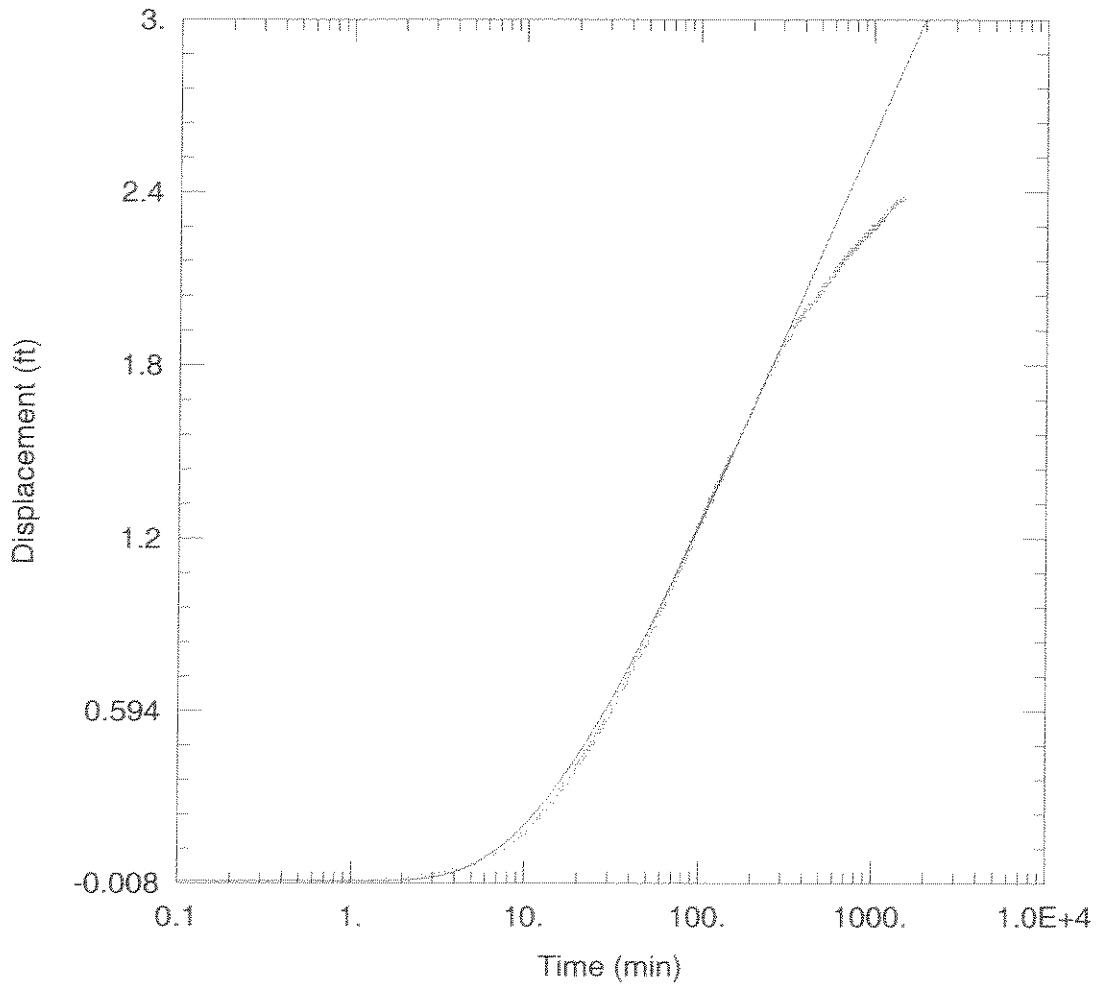
Aquifer Model: Confined

Solution Method: Cooper-Jacob

T = 12.75 cm²/sec

S = 0.0005842

$$K = 12.75 / 853.44 = 149 \times 10^{-4} \text{ cm/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\North transect n11 at 1480 minutes Theis.aqt

Date: 04/06/06

Time: 15:55:31

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
n13	200	0

SOLUTION

Aquifer Model: Confined

Solution Method: Theis

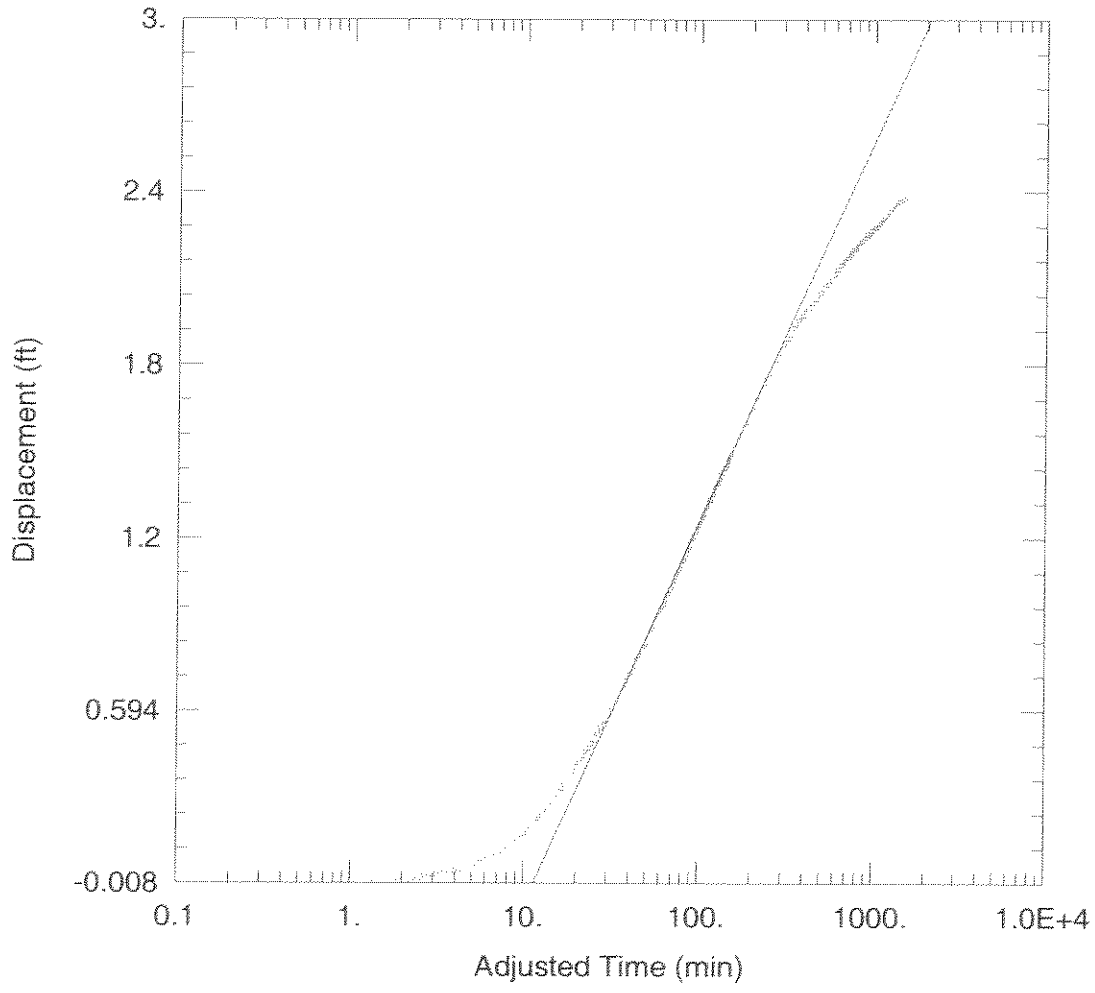
T = 13.35 cm²/sec

S = 0.0006707

Kz/Kr = 1.

b = 28. ft

$$K = 156 \times 10^{-4} \text{ c/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\North transect n13 at 1480 minutes Theis.aqt
 Date: 04/06/06 Time: 15:56:13

AQUIFER DATA

Saturated Thickness: 28. ft Anisotropy Ratio (Kz/Kr): 1.

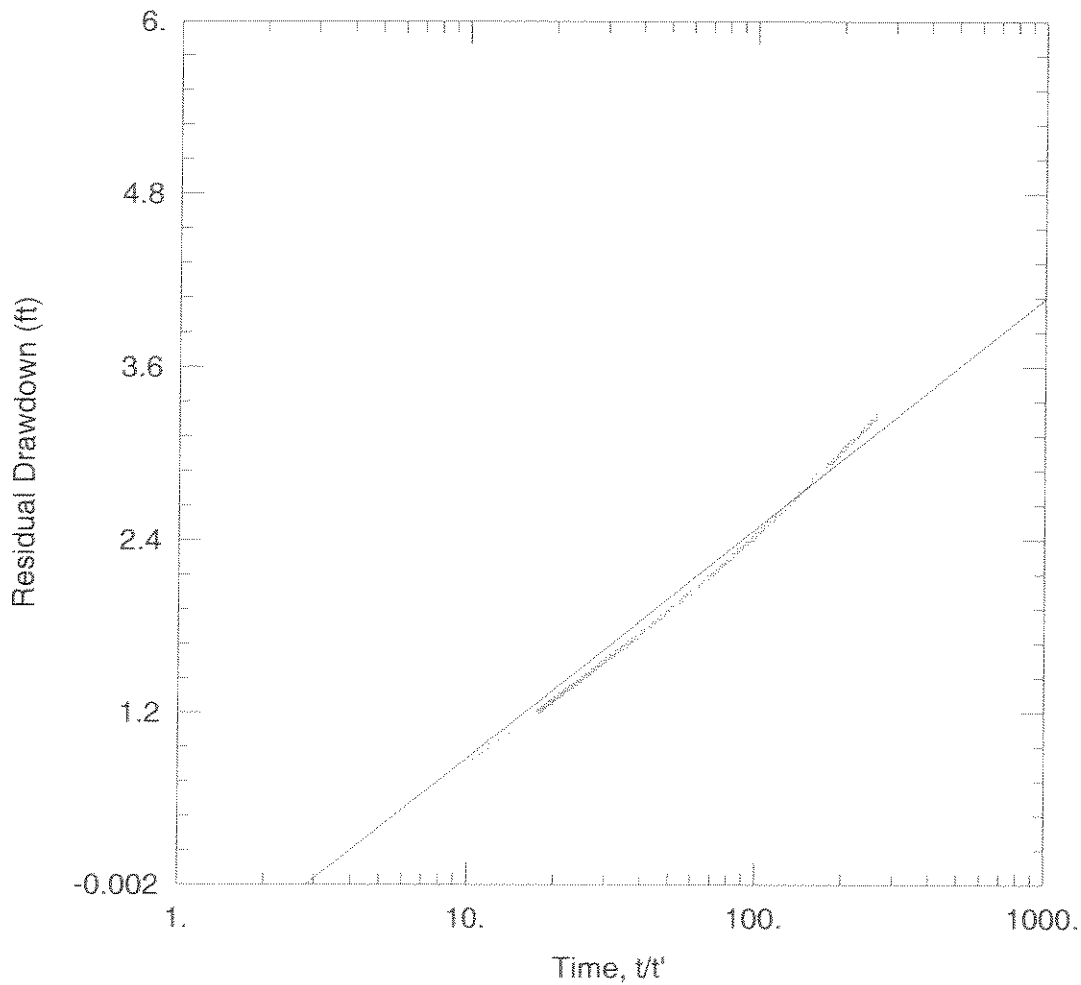
WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	n13	200	0

SOLUTION

Aquifer Model: Confined Solution Method: Cooper-Jacob
 T = 13.98 cm²/sec S = 0.0005842

$K = 163 \times 10^{-4} \text{ cfs}$



WELL TEST ANALYSIS

Data Set: W:\...\North transect n12 at 1 300 minutes recovery Theis.aqt
 Date: 04/07/06 Time: 07:39:44

AQUIFER DATA

Saturated Thickness: 28. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
n10	50	0

SOLUTION

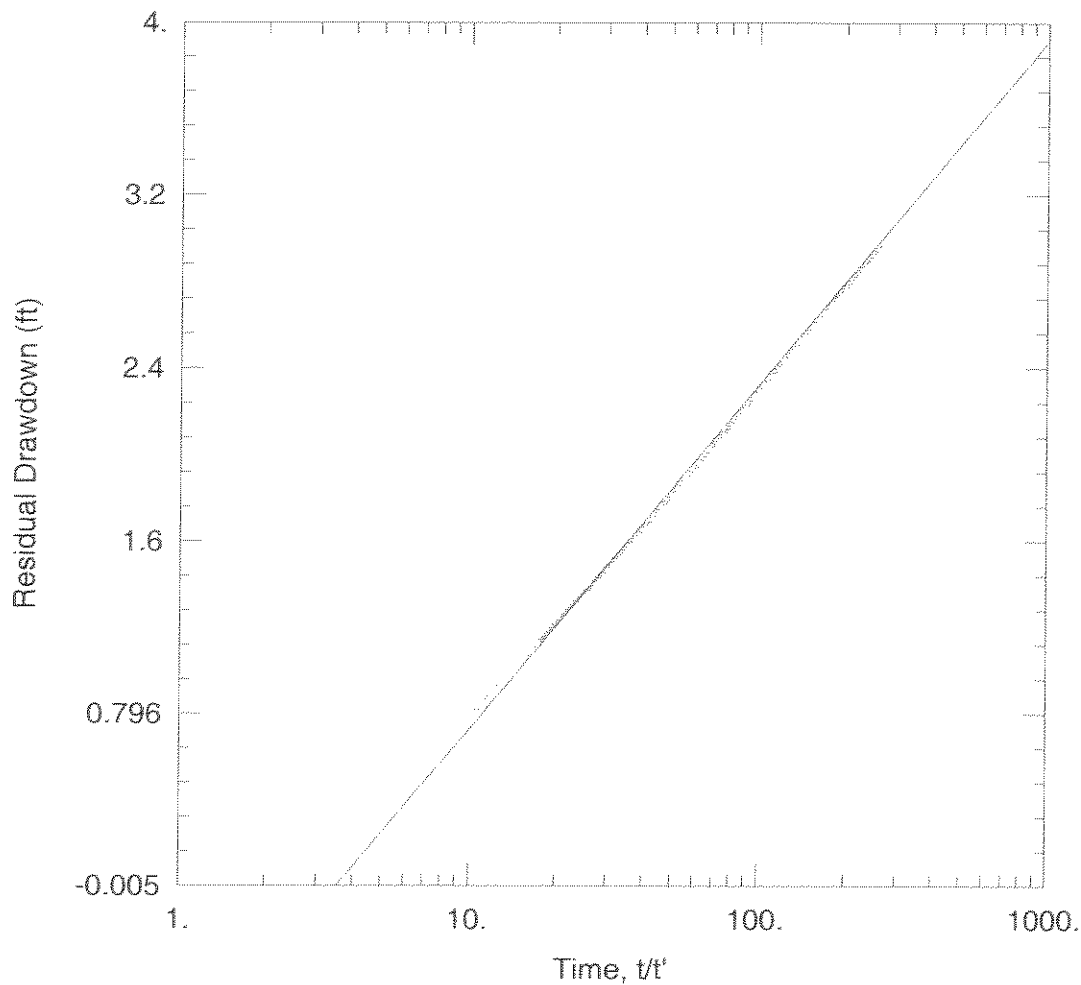
Aquifer Model: Confined

Solution Method: Theis (Recovery)

T = 11.63 cm²/sec

S/S' = 2.818

$$K = 136 \times 10^{-4}$$



WELL TEST ANALYSIS

Data Set: W:\...North transect n10 at1 300 minutes recovery Theis.aqt
 Date: 04/07/06 Time: 07:40:48

AQUIFER DATA

Saturated Thickness: 28. ft Anisotropy Ratio (Kz/Kr): 1.

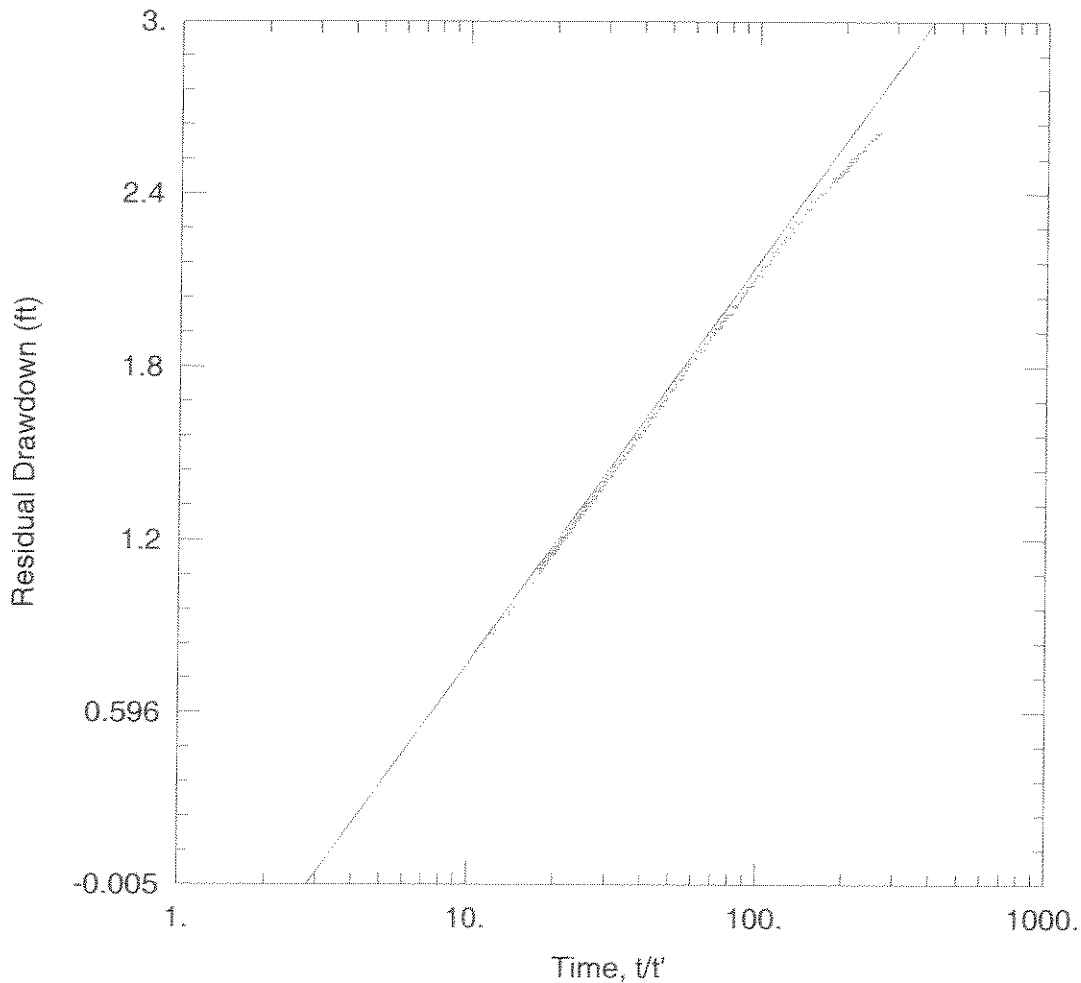
WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	n11	100	0

SOLUTION

Aquifer Model: Confined Solution Method: Theis (Recovery)
 $T = 11.63 \text{ cm}^2/\text{sec}$ $S/S' = 3.548$

$$K = 136 \times 10^{-4} \text{ c/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\North transect n12 at 1 300 minutes recovery Theis.aqt

Date: 04/07/06

Time: 07:38:31

AQUIFER DATA

Saturated Thickness: 28. ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
n12	150	0

SOLUTION

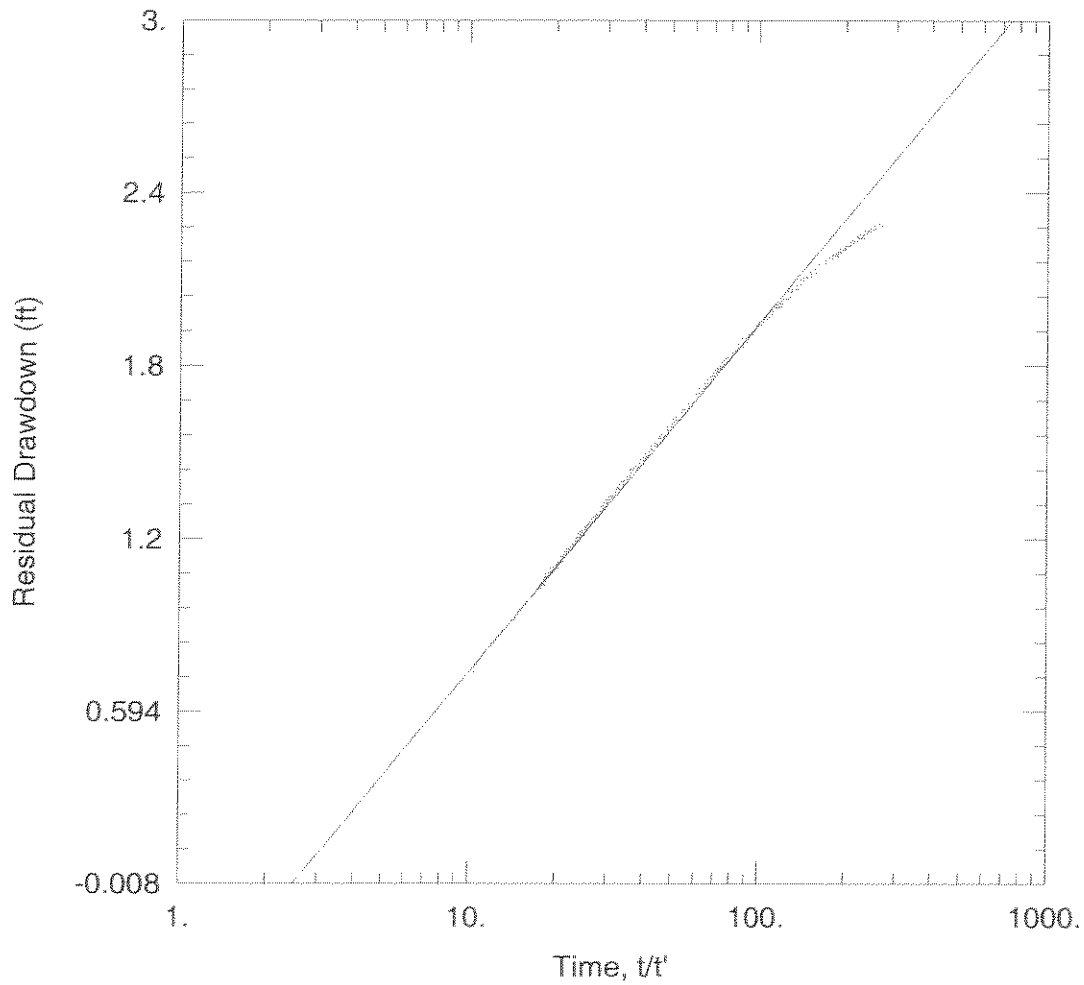
Aquifer Model: Confined

Solution Method: Theis (Recovery)

$T = 13.35 \text{ cm}^2/\text{sec}$

$S/S' = 2.818$

$$K = 156 \times 10^{-11} \text{ c/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\North transect n11 at 1 300 minutes recovery Theis.aqt
 Date: 04/07/06 Time: 07:41:58

AQUIFER DATA

Saturated Thickness: 28. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	n13	200	0

SOLUTION

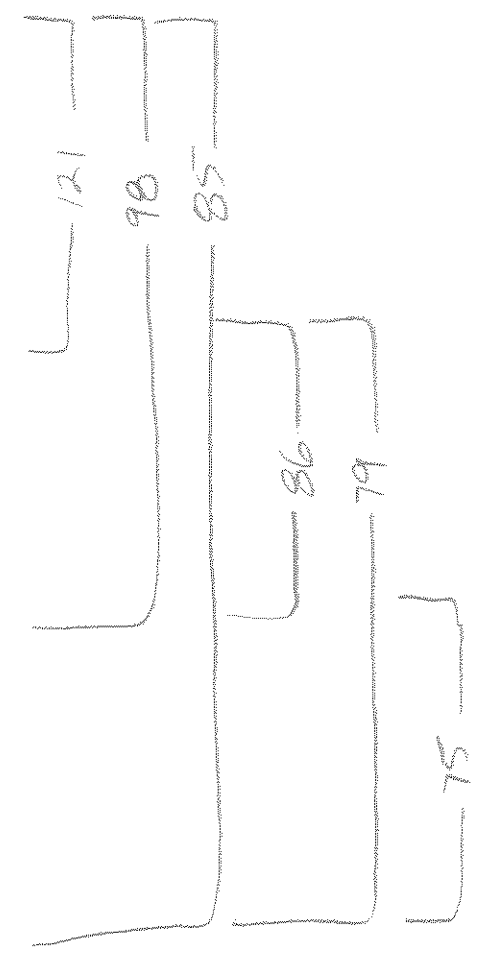
Aquifer Model: Confined Solution Method: Theis (Recovery)

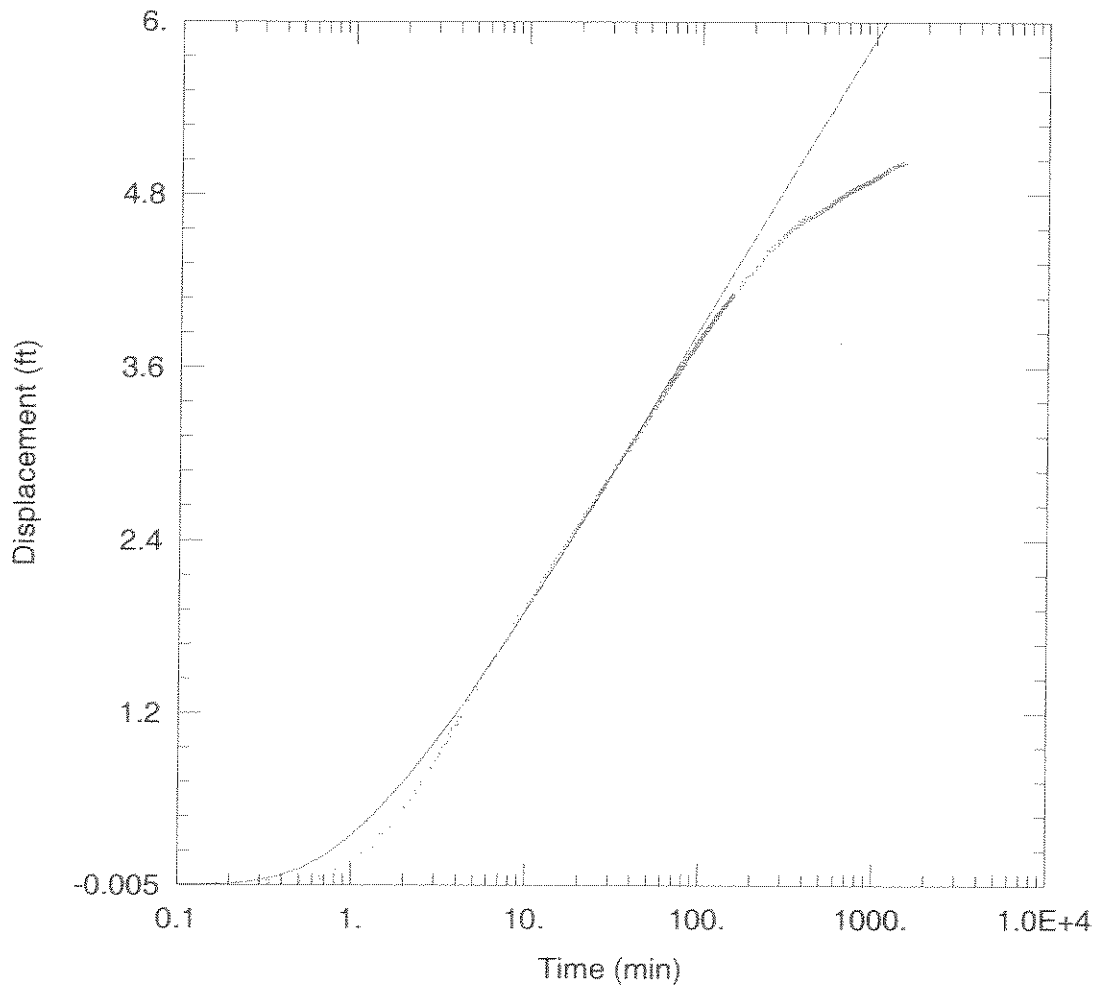
T = 15.33 cm²/sec S/S' = 2.512

$$K = 179 \times 10^{-10} \text{ c/s}$$

Permeability Computations – South Transect
Observation Wells

South Transect	(100)	(150)	(200)	
	526	527	529	
Theris	108	136	171	236
Coop Inc	113	149	179	222
Therim				
Theris The canopy	130	156	179	206





WELL TEST ANALYSIS

Data Set: W:\...\South transect s26 at 1480 minutes CoopJac.aqt

Date: 04/06/06

Time: 16:18:18

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
s26	50	0

SOLUTION

Aquifer Model: Confined

Solution Method: Theis

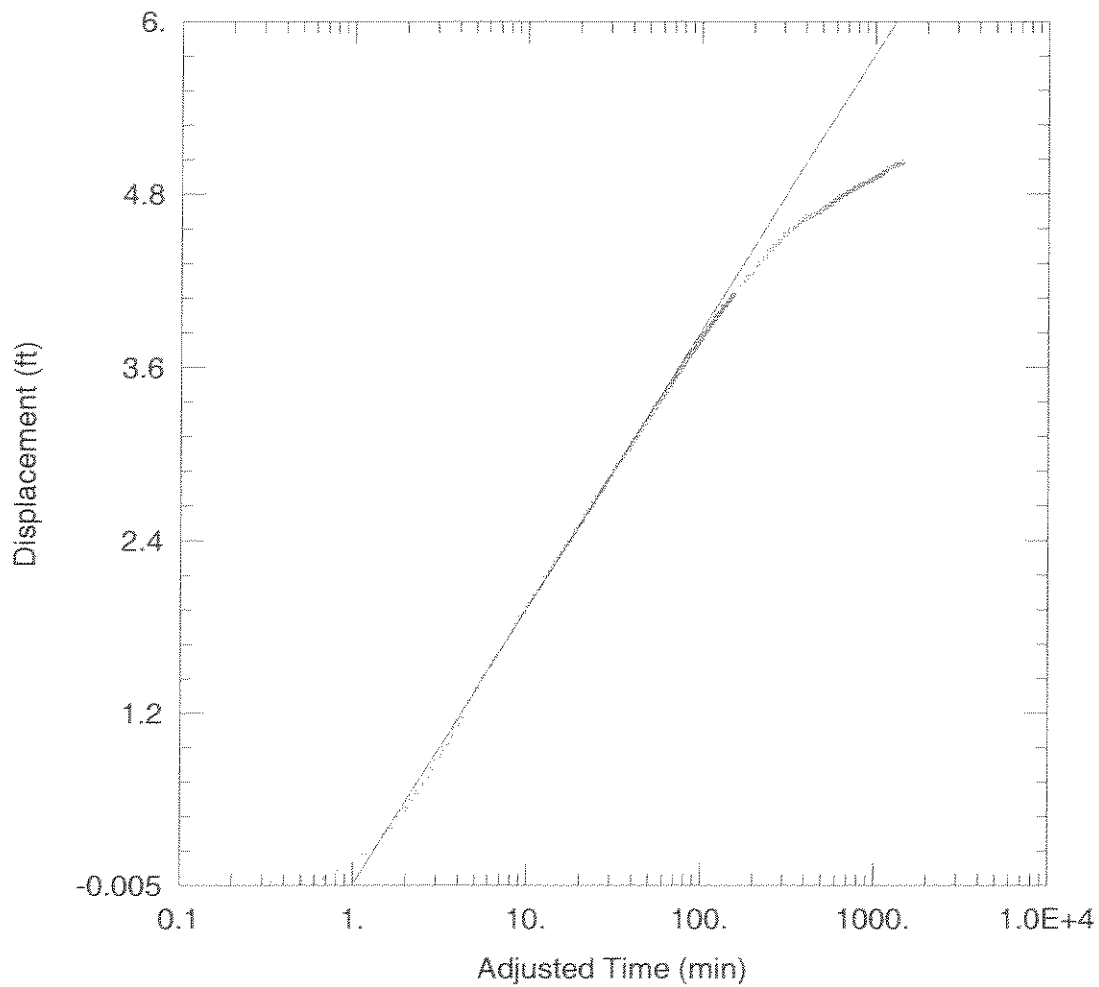
T = 9.235 cm²/sec

S = 0.0006406

Kz/Kr = 1.

b = 28. ft

$$K = 108 \times 10^{-11}$$



WELL TEST ANALYSIS

Data Set: W:\...\South transect s28 at 1480 minutes CoopJac.aqt

Date: 04/06/06

Time: 16:17:18

AQUIFER DATA

Saturated Thickness: 28. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
s26	50	0

SOLUTION

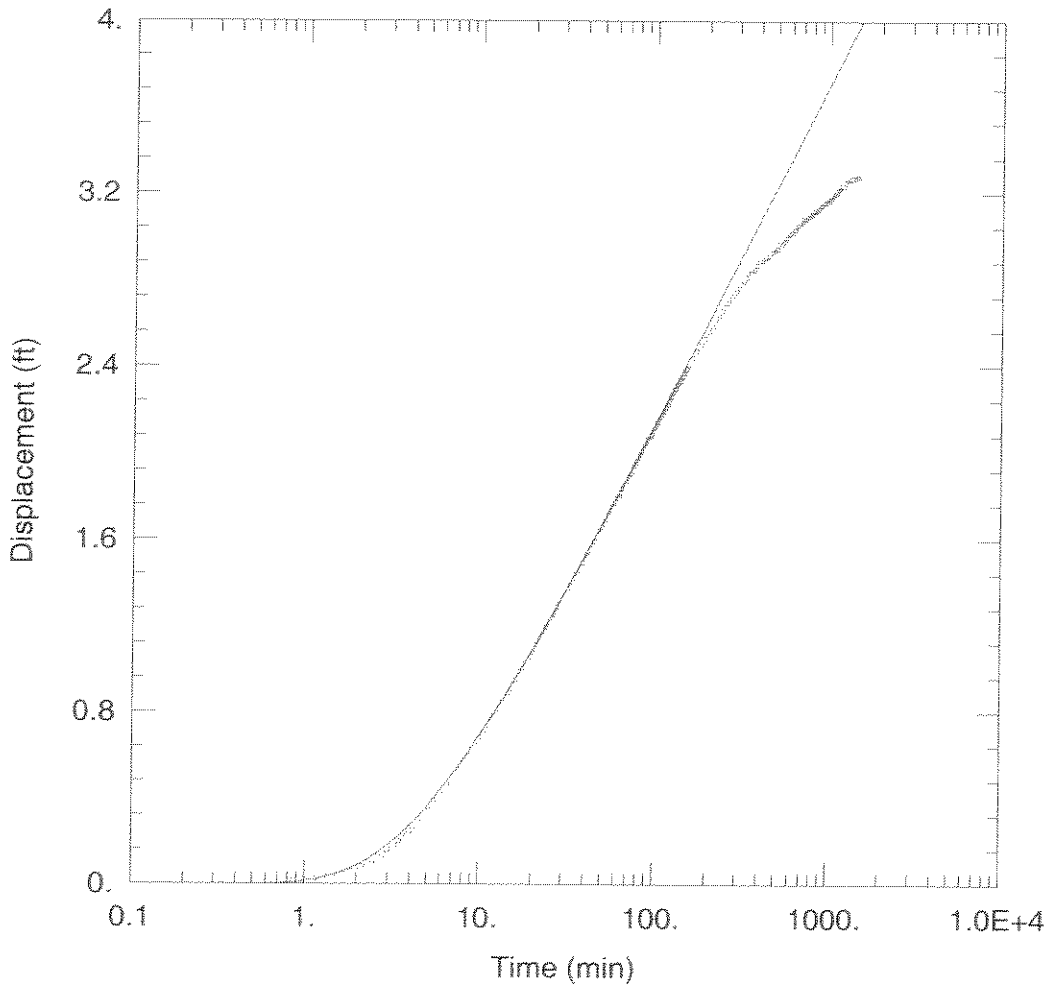
Aquifer Model: Confined

Solution Method: Cooper-Jacob

T = 9.671 cm²/sec

S = 0.0005579

K = 113 x 10⁻¹



WELL TEST ANALYSIS

Data Set: W:\...\South transect s26 at 1480 minutes Theis.aqt

Date: 04/06/06

Time: 16:19:31

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
s27	100	0

SOLUTION

Aquifer Model: Confined

Solution Method: Theis

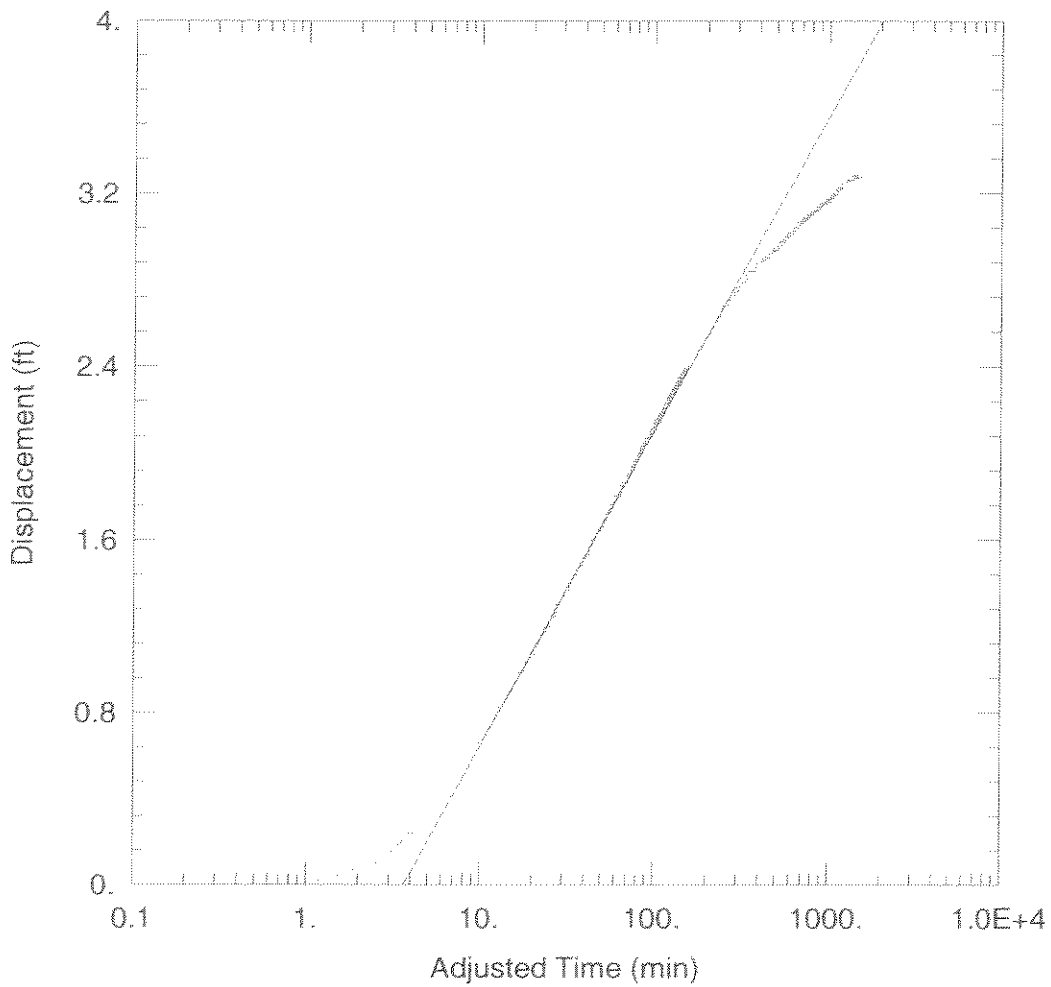
T = 11.63 cm²/sec

S = 0.0008064

Kz/Kr = 1.

b = 28. ft

$$K = 136 \times 10^{-4} \text{ c/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\South transect s27 at 1480 minutes Theis.aqt

Date: 04/06/06

Time: 16:20:07

AQUIFER DATA

Saturated Thickness: 28. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
s27	100	0

SOLUTION

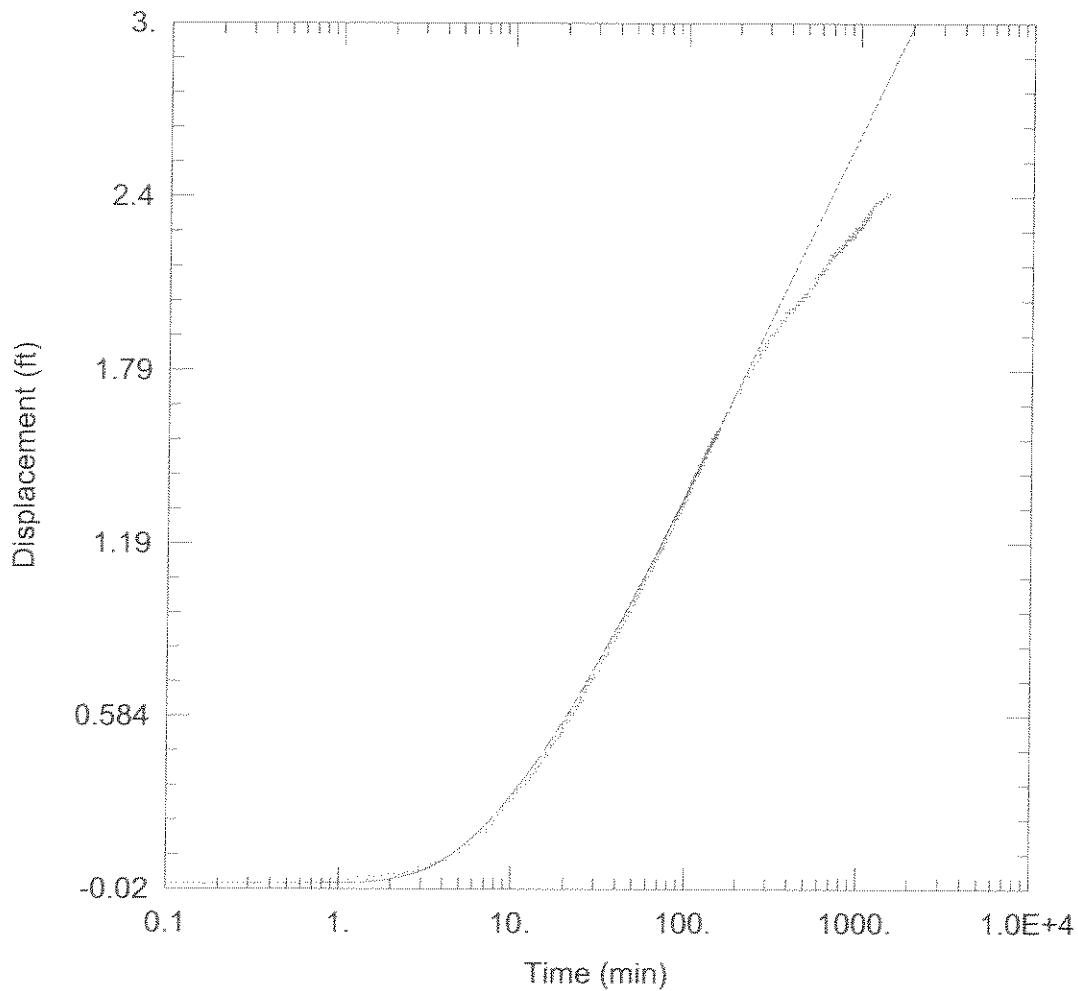
Aquifer Model: Confined

Solution Method: Cooper-Jacob

T = 12.75 cm²/sec

S = 0.0006707

$$K = 149 \times 10^{-11} \text{ c/s}$$



WELL TEST ANALYSIS

Data Set: C:\...\South transect s28at 1480 minutes Theis.aqt

Date: 03/07/06

Time: 20:24:04

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	s28	150	0

SOLUTION

Aquifer Model: Confined

Solution Method: Theis

T = 14.64 cm²/sec

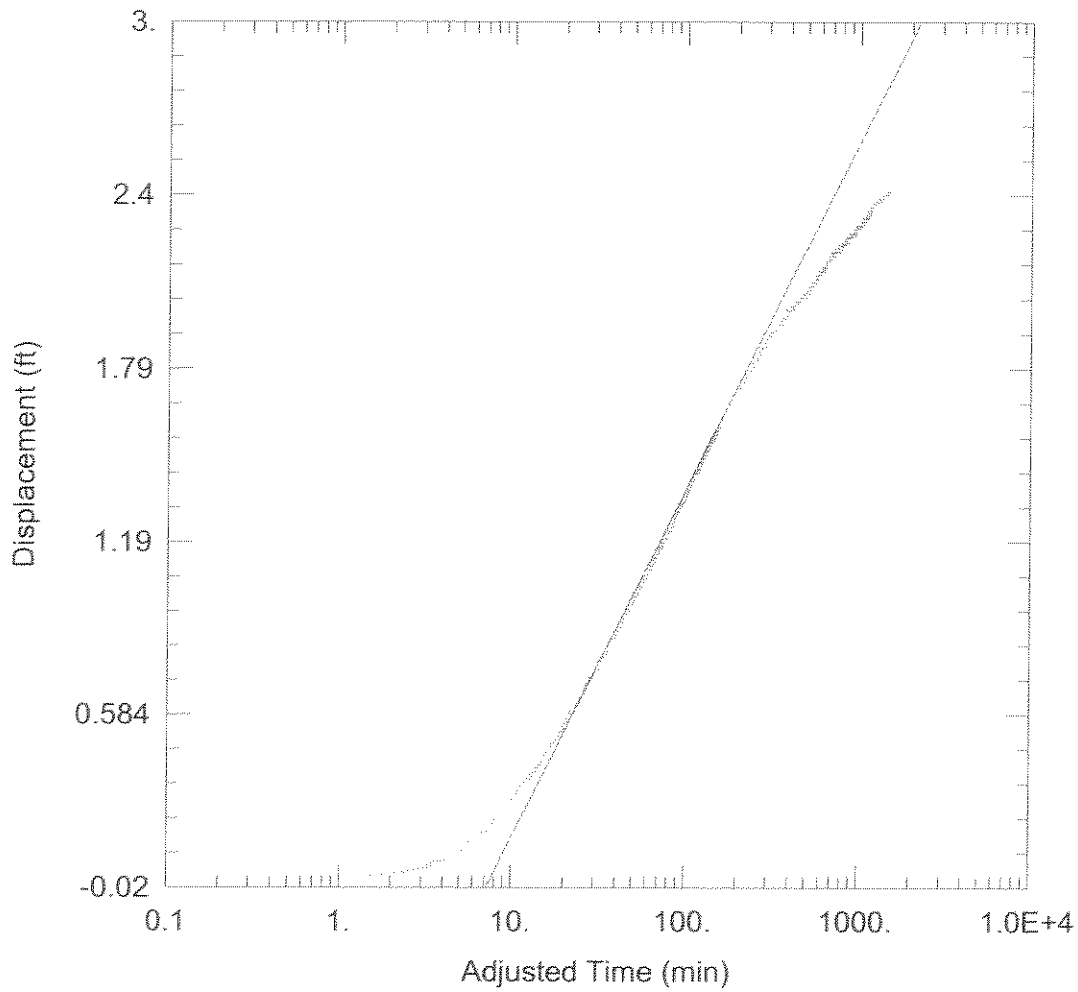
S = 0.0008444

Kz/Kr = 1.

b = 28. ft

$$b = 28' = 853.44 \text{ cm}$$

$$K = \frac{14.64}{853.44} = 171 \times 10^{-4} \text{ cm/sec}$$



WELL TEST ANALYSIS

Data Set: C:\...\South transect s28 at 1480 minutes CoopJac.aqt

Date: 03/07/06

Time: 20:23:50

AQUIFER DATA

Saturated Thickness: 28. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	s28	150	0

SOLUTION

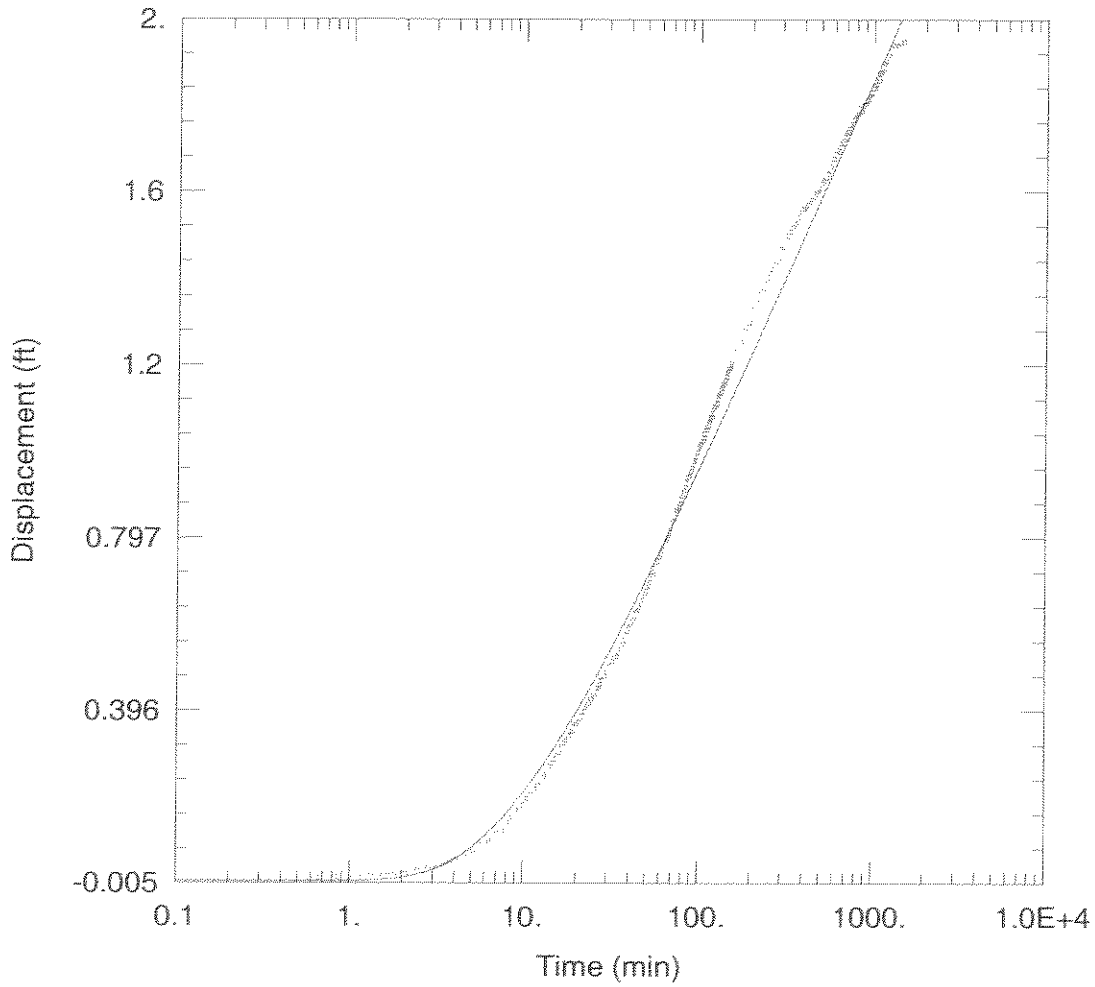
Aquifer Model: Confined

Solution Method: Cooper-Jacob

T = 15.33 cm²/sec

S = 0.0007355

$$\lambda = 15.33 / 853.44 = 179 \times 10^{-4} \text{ cm/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\South transect s29 at 1480 minutes CoopJac.aqt

Date: 04/06/06

Time: 16:22:10

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
s29	200	0

SOLUTION

Aquifer Model: Confined

Solution Method: Theis

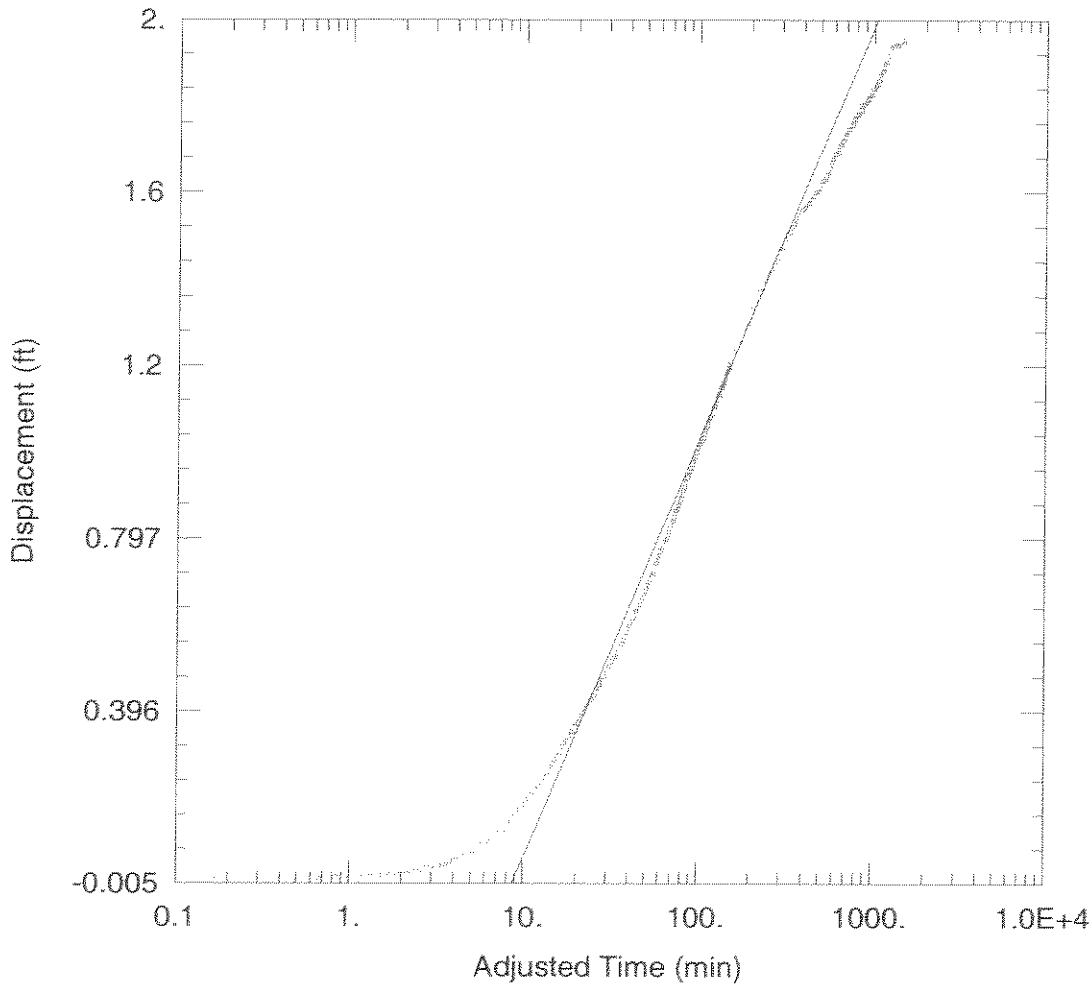
T = 20.2 cm²/sec

S = 0.0007024

Kz/Kr = 1.

b = 28. ft

$$K = 236 \times 10^{-11} \text{ c/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\South transect s27 at 1480 minutes CoopJac.aqt

Date: 04/06/06

Time: 16:21:28

AQUIFER DATA

Saturated Thickness: 28. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
s29	200	0

SOLUTION

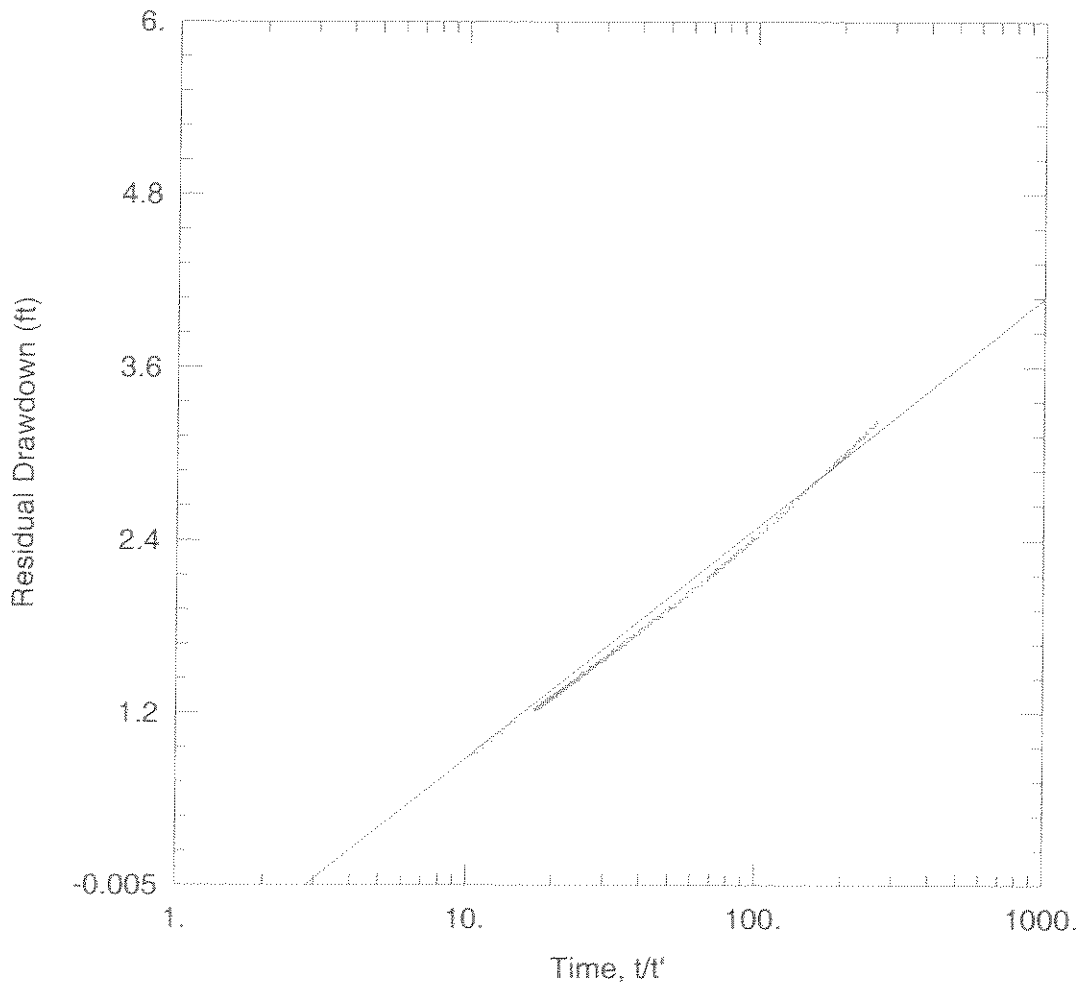
Aquifer Model: Confined

Solution Method: Cooper-Jacob

T = 19.3 cm²/sec

S = 0.0006117

K = 226 × 10⁻⁴



WELL TEST ANALYSIS

Data Set: W:\...\South transect s28at 300 minutes recovery Thisis.aqt
 Date: 04/07/06 Time: 08:04:56

AQUIFER DATA

Saturated Thickness: 28. ft Anisotropy Ratio (Kz/Kr): 1.

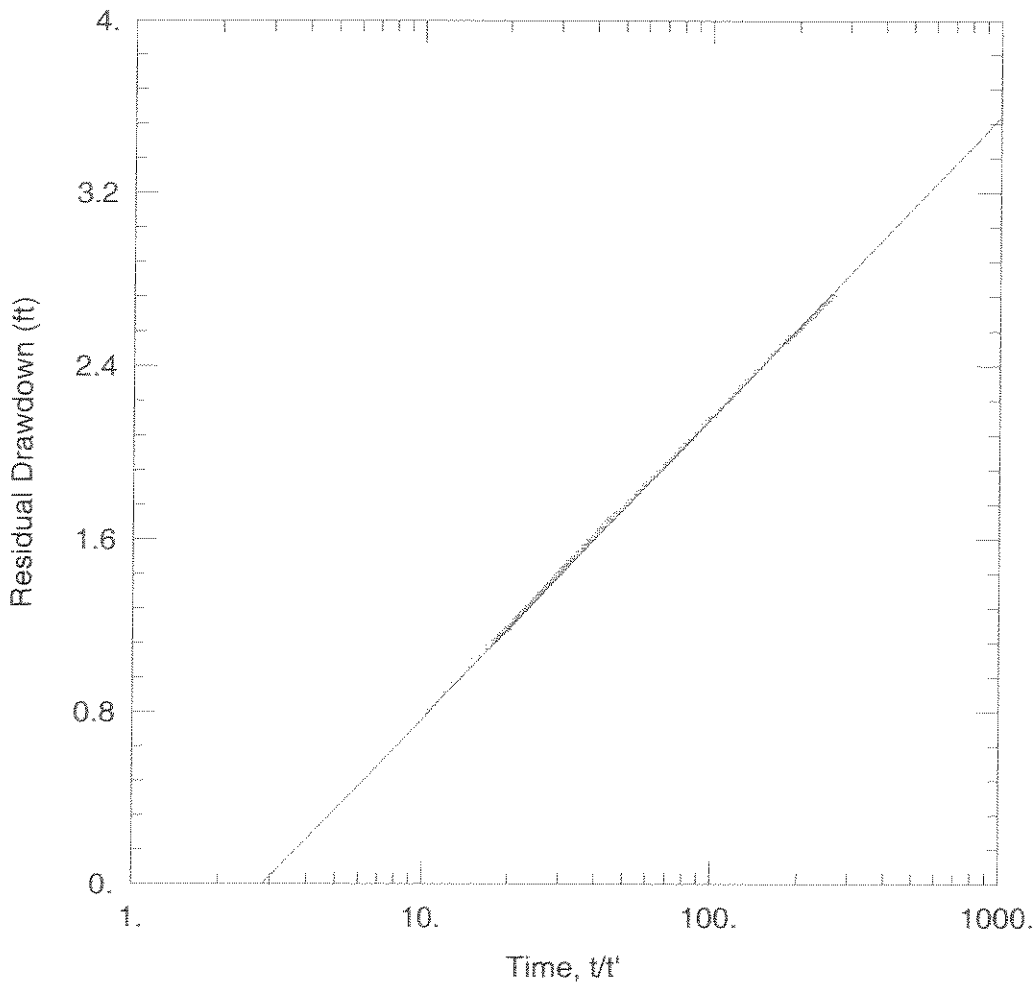
WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	s26	50	0

SOLUTION

Aquifer Model: Confined Solution Method: Thisis (Recovery)
 $T = 11.63 \text{ cm}^2/\text{sec}$ $S/S' = 2.818$

$$K = 136 \times 10^{-11} \text{ c/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\South transect s26 at 300 minutes recovery Theis.aqt
 Date: 04/07/06 Time: 08:06:42

AQUIFER DATA

Saturated Thickness: 28. ft Anisotropy Ratio (Kz/Kr): 1.

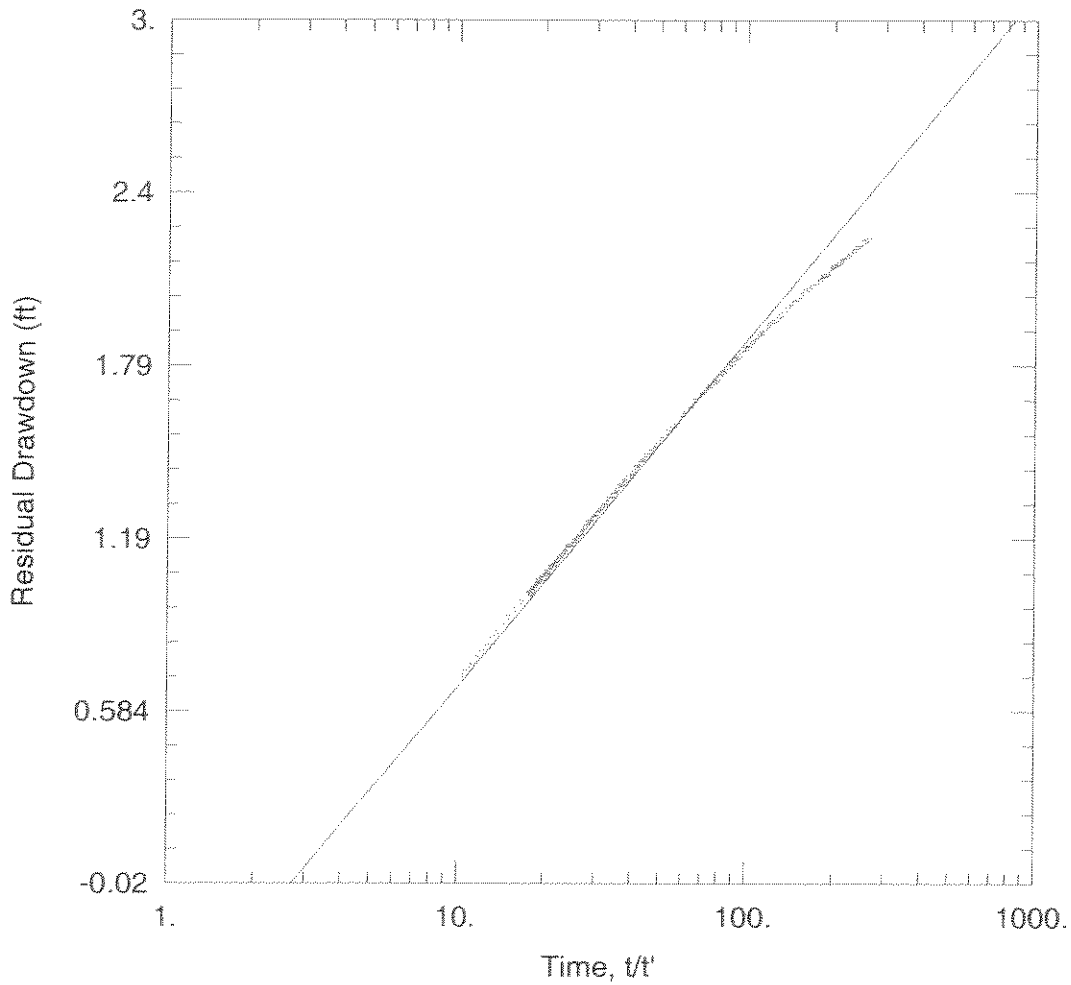
WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	s27	100	0

SOLUTION

Aquifer Model: Confined Solution Method: Theis (Recovery)
 $T = 13.35 \text{ cm}^2/\text{sec}$ $S/S' = 2.818$

$$K = 156 \times 10^{-2} \text{ c/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\South transect s28at 300 minutes recovery Thisis.aqt
 Date: 04/07/06 Time: 08:02:36

AQUIFER DATA

Saturated Thickness: 28. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	s28	150	0

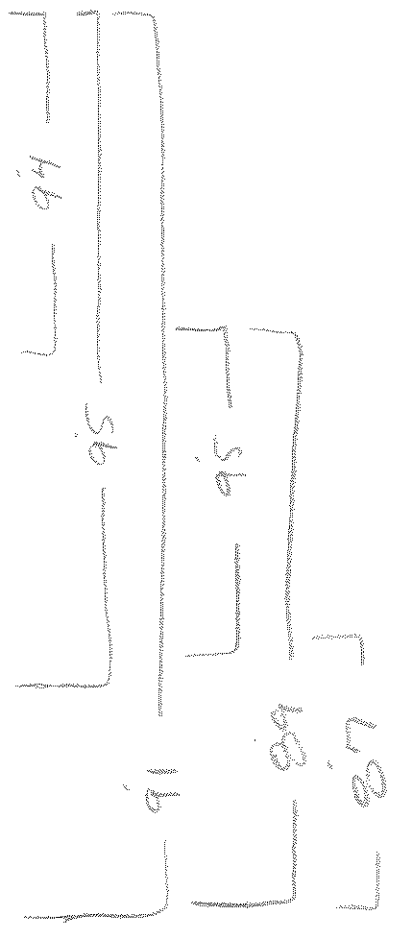
SOLUTION

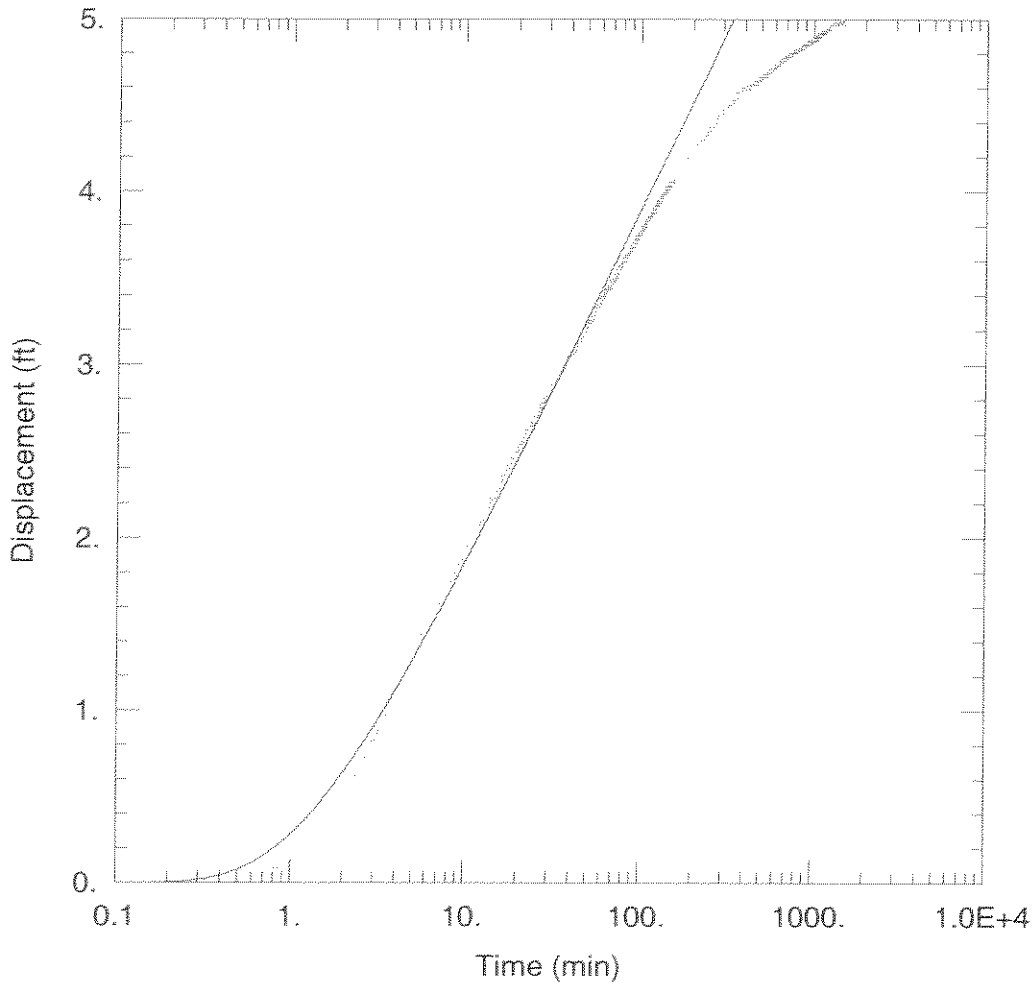
Aquifer Model: Confined Solution Method: Thisis (Recovery)
 $T = 15.33 \text{ cm}^2/\text{sec}$ $S/S' = 2.818$

$$K = 179 \times 10^{-4} \text{ c/s}$$

Permeability Computations – East Transect
Observation Wells

East tract (50') E02	(100') E03	(100') E04	(200') E05
Theris Coop Jac	124 136	149 163	171 206
Heartush	120	137	159
Recovery (The n)	136	149	179
			185





WELL TEST ANALYSIS

Data Set: W:\...\East transect e02 at 1480 minutes CoopJac.aqt
 Date: 04/06/06 Time: 16:01:59

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
e02	50	0

SOLUTION

Aquifer Model: Confined

Solution Method: Theis

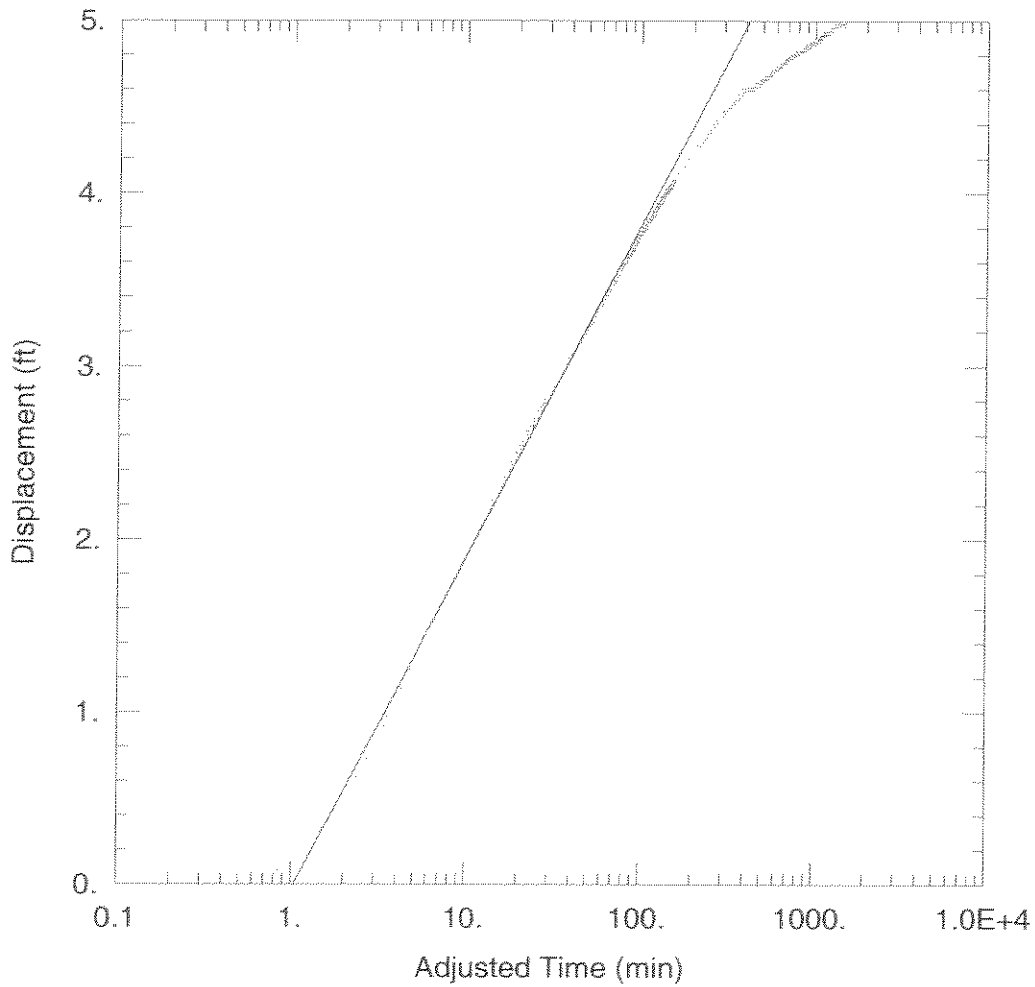
T = 8.82 cm²/sec

S = 0.0007355

Kz/Kr = 1.

b = 28. ft

$$K = 103 \times 10^{-11} \text{ c/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\East transect e04 at 1480 minutes CoopJac.aqt
 Date: 04/06/06 Time: 16:00:59

AQUIFER DATA

Saturated Thickness: 28. ft Anisotropy Ratio (Kz/Kr): 1.

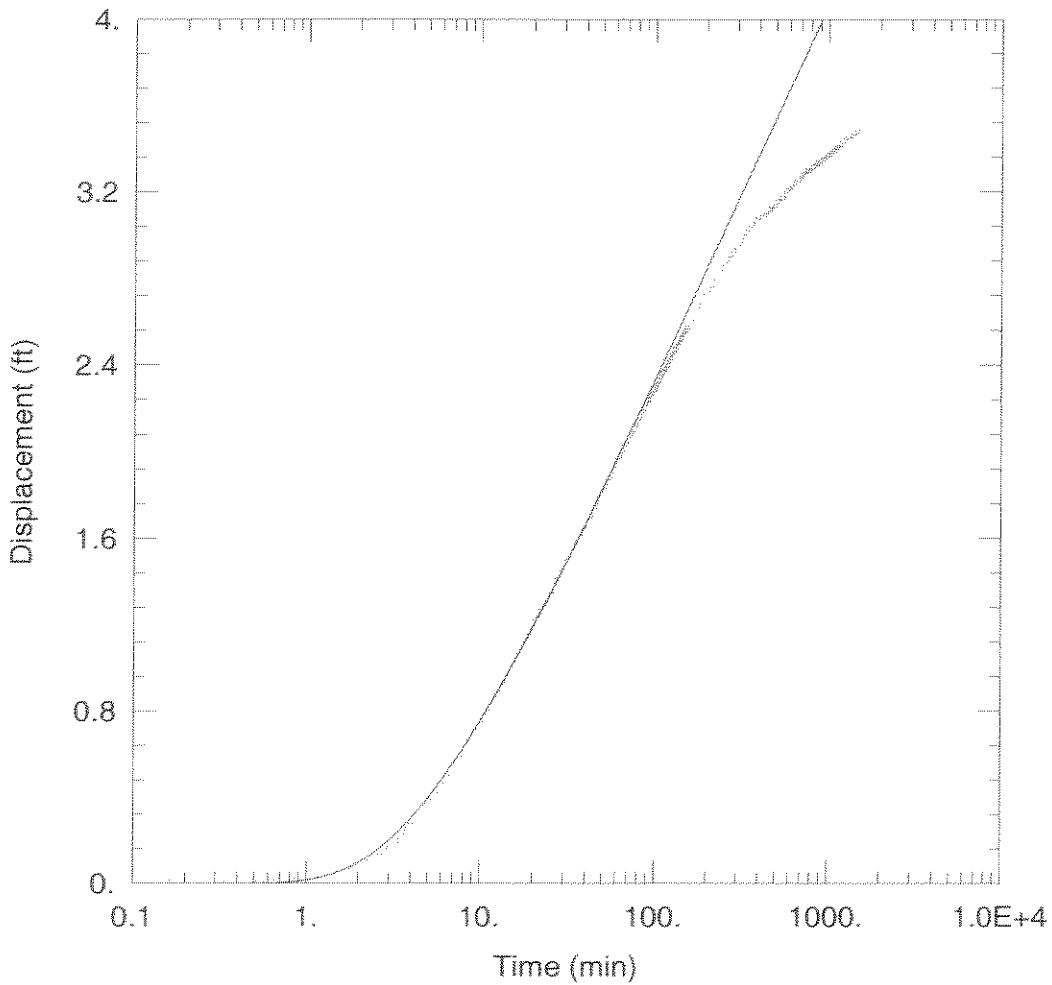
WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	e02	50	0

SOLUTION

Aquifer Model: Confined Solution Method: Cooper-Jacob
 $T = 9.671 \text{ cm}^2/\text{sec}$ $S = 0.0005842$

$$K = 113 \times 10^{-4} \text{ c/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\East transect e02 at 1480 minutes Theis.aqt

Date: 04/06/06

Time: 16:03:34

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
e03	100	0

SOLUTION

Aquifer Model: Confined

Solution Method: Theis

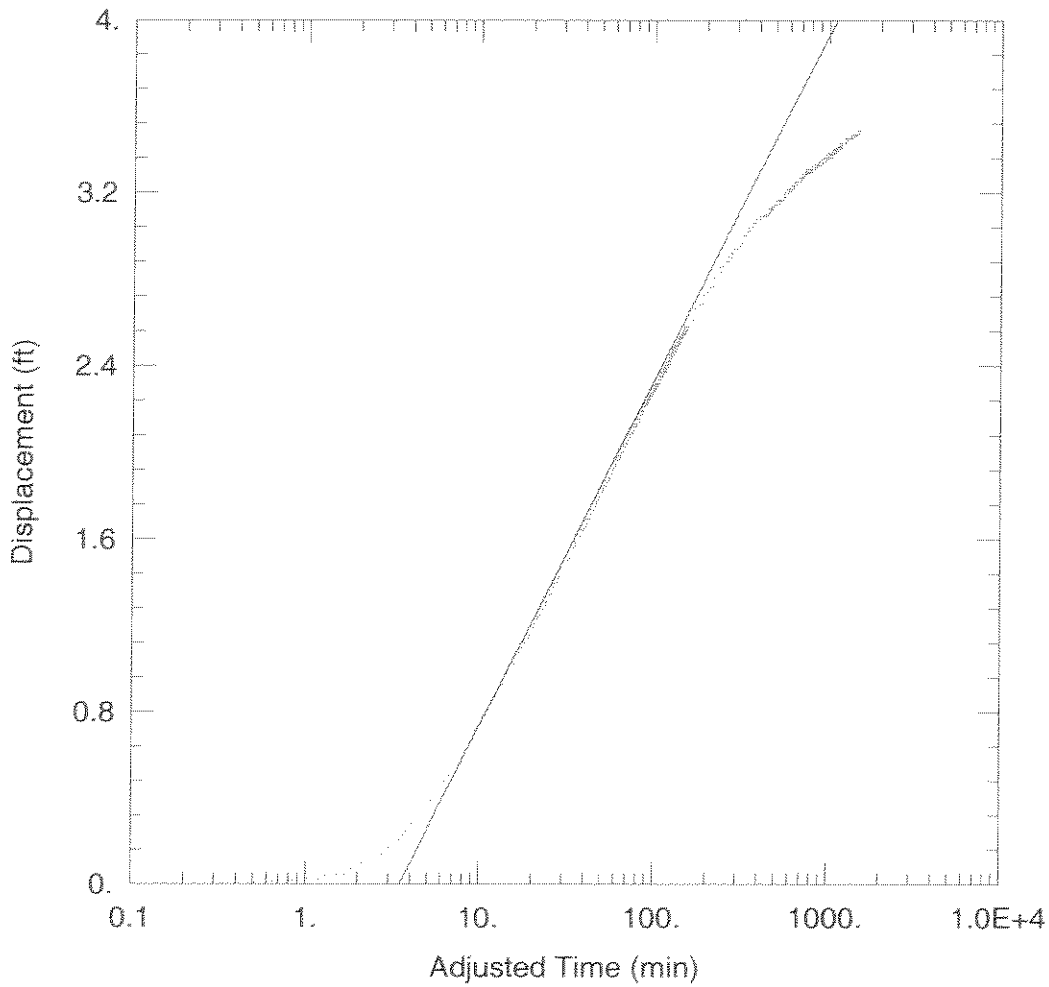
T = 10.6 cm²/sec

S = 0.0007355

Kz/Kr = 1.

b = 28. ft

$$K = 124 \times 10^{-4} \text{ cfs}$$



WELL TEST ANALYSIS

Data Set: W:\...\East transect e03 at 1480 minutes This.sqt

Date: 04/06/06

Time: 16:04:17

AQUIFER DATA

Saturated Thickness: 28. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
e03	100	0

SOLUTION

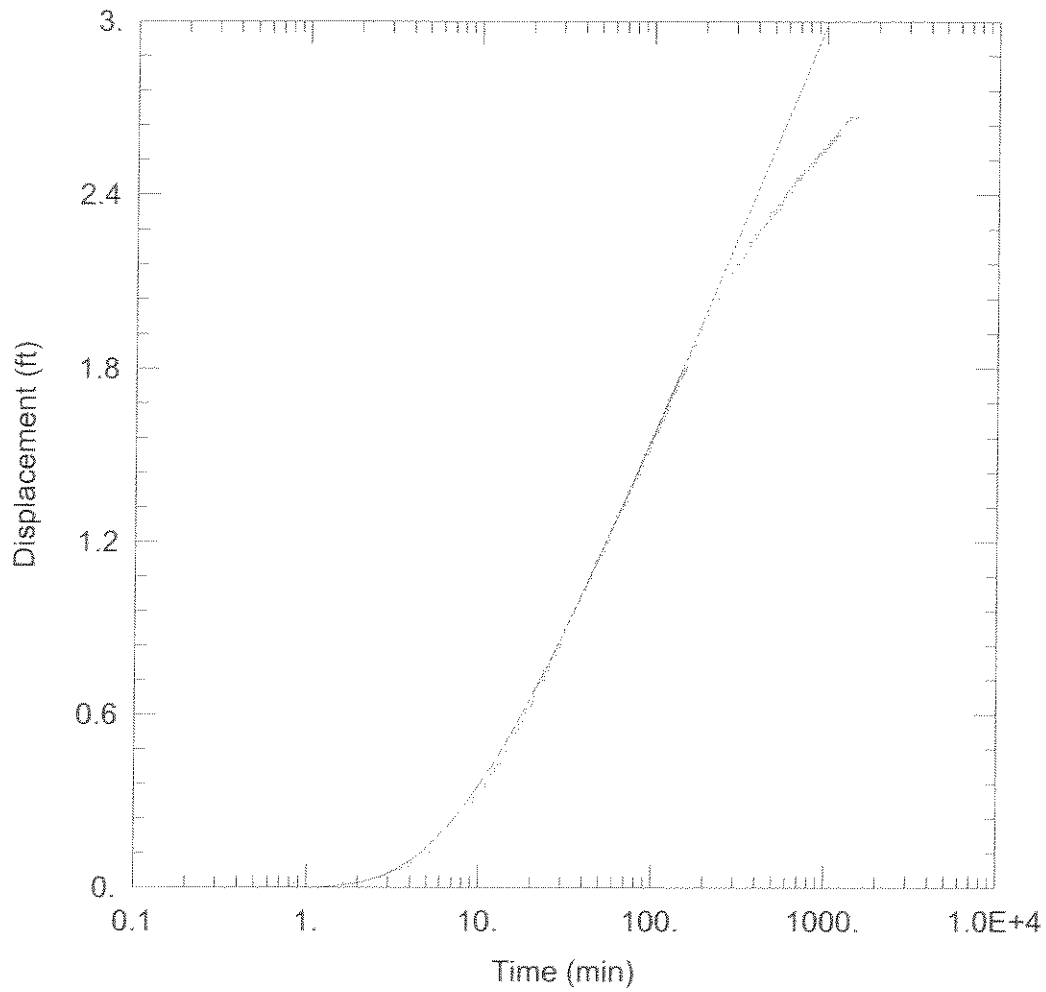
Aquifer Model: Confined

Solution Method: Cooper-Jacob

T = 11.63 cm²/sec

S = 0.0005842

$$K = 136 \times 10^{-4} \text{ c/s}$$



WELL TEST ANALYSIS

Data Set: C:\...\East transect e04 at 1480 minutes Theis.aqt

Date: 03/07/06

Time: 20:23:04

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	e04	150	0

SOLUTION

Aquifer Model: Confined

Solution Method: Theis

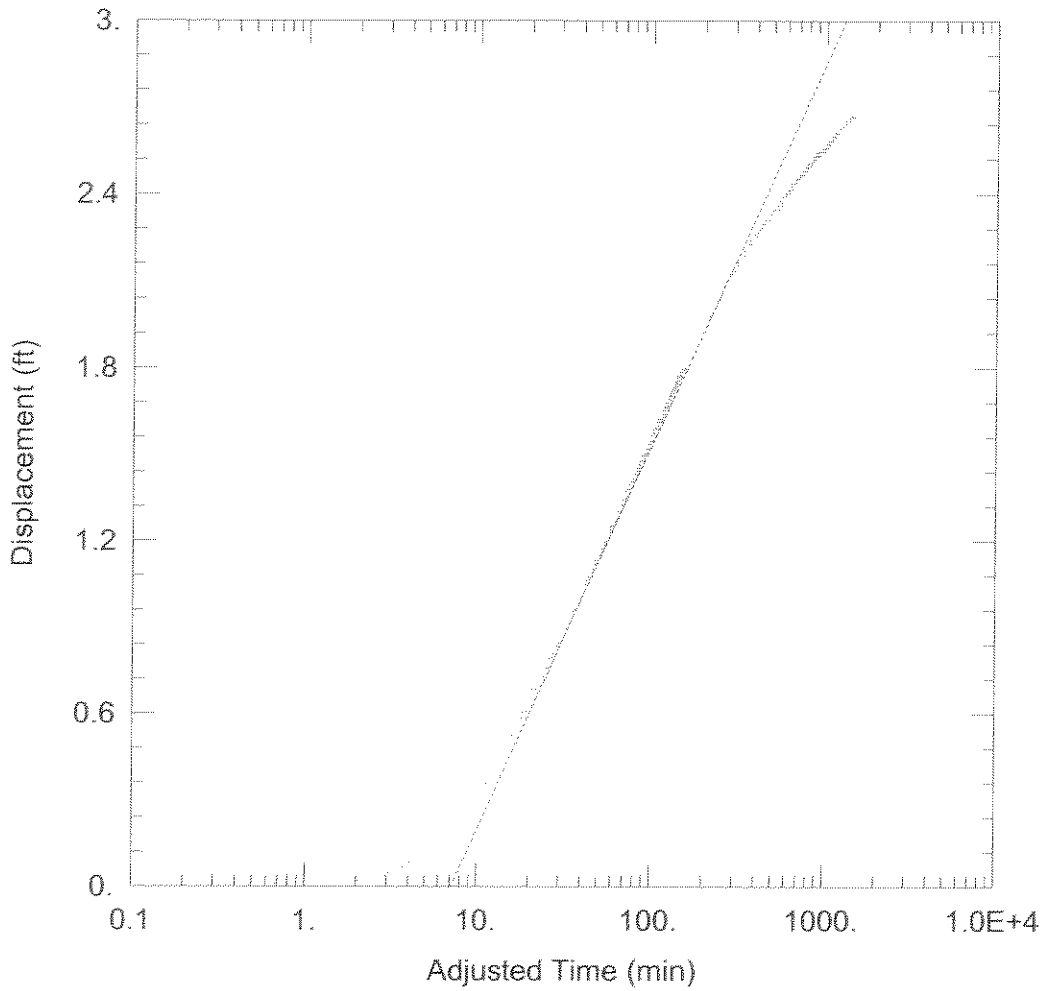
T = 12.75 cm²/sec

S = 0.0007355

Kz/Kr = 1.

b = 28. ft

$$K = 12.75 / 853.44 = 149 \times 10^{-4} \text{ cm/s}$$



WELL TEST ANALYSIS

Data Set: C:\...\East transect e04 at 1480 minutes CoopJac.aqt
 Date: 03/07/06 Time: 20:54:09

AQUIFER DATA

Saturated Thickness: 28. ft Anisotropy Ratio (Kz/Kr): 1.

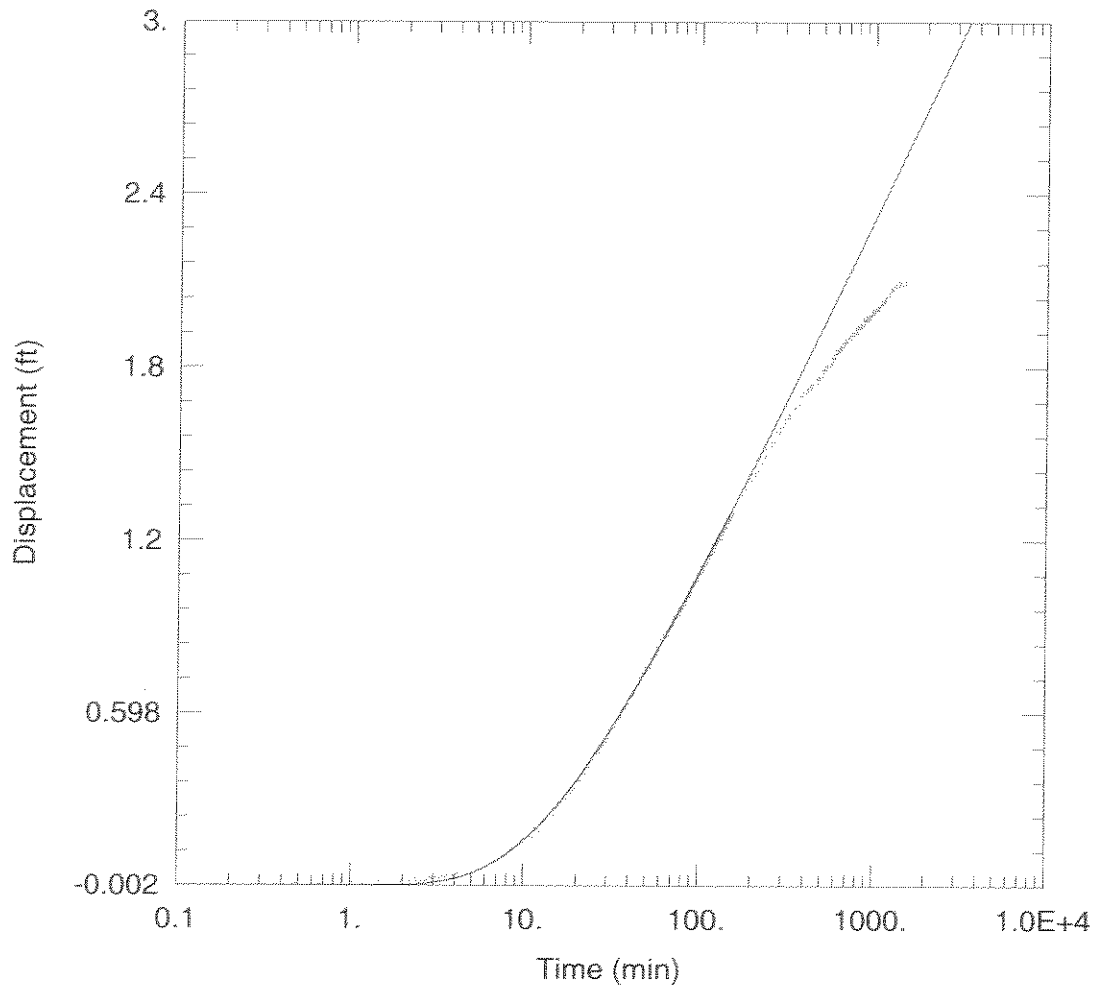
WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	e04	150	0

SOLUTION

Aquifer Model: Confined Solution Method: Cooper-Jacob
 T = 13.98 cm²/sec S = 0.0006406

$$K = 13.98 / 85344 = 163 \times 10^{-4} \text{ cm/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\East transect e05 at 1480 minutes CoopJac.aqt
 Date: 04/06/06 Time: 16:06:26

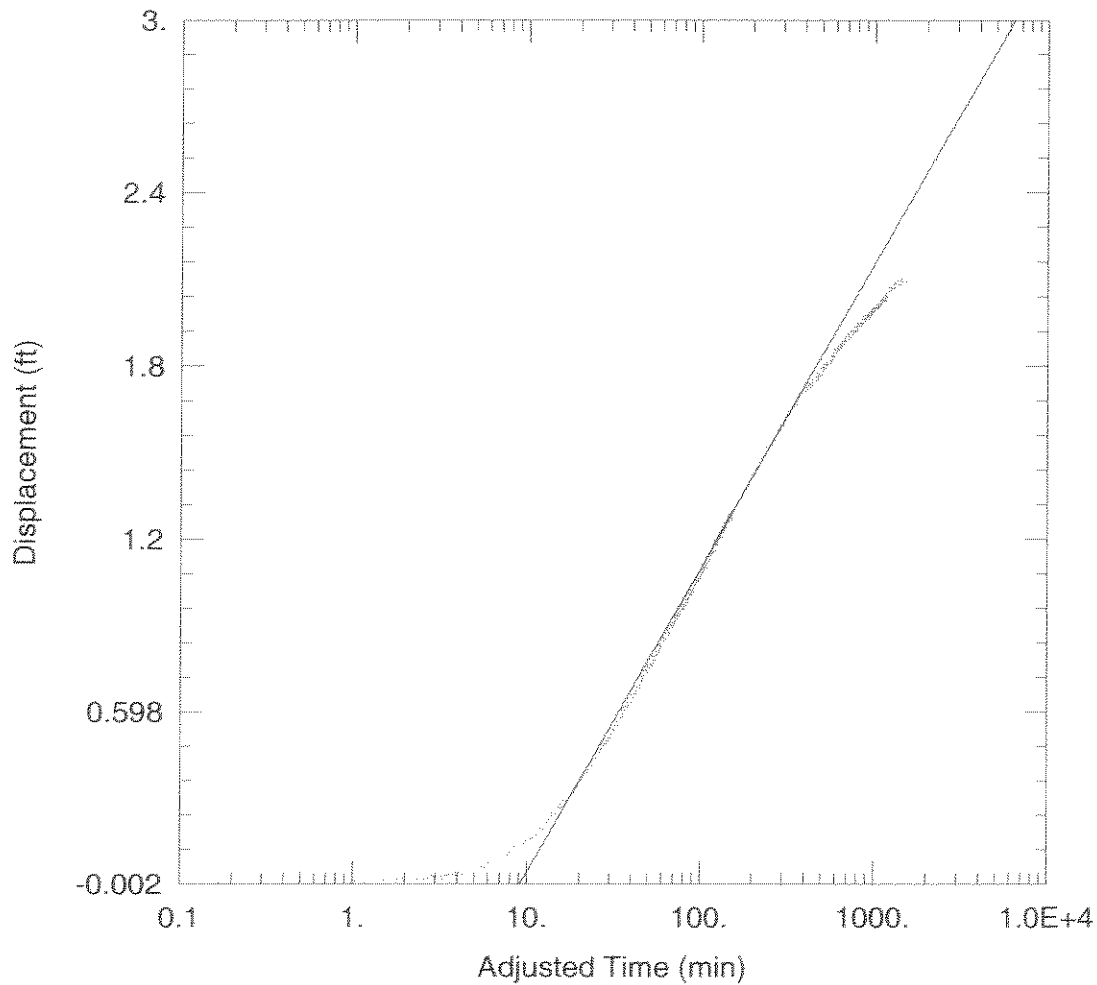
WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	e05	200	0

SOLUTION

Aquifer Model: Confined Solution Method: Theis
 $T = 14.64 \text{ cm}^2/\text{sec}$ $S = 0.0008064$
 $Kz/Kr = 1.$ $b = 28. \text{ ft}$

$k = 171 \times 10^{-4} \text{ c/s}$



WELL TEST ANALYSIS

Data Set: W:\...\East transect e03 at 1480 minutes CoopJac.aqt
 Date: 04/06/06 Time: 16:05:39

AQUIFER DATA

Saturated Thickness: 28. ft Anisotropy Ratio (Kz/Kr): 1.

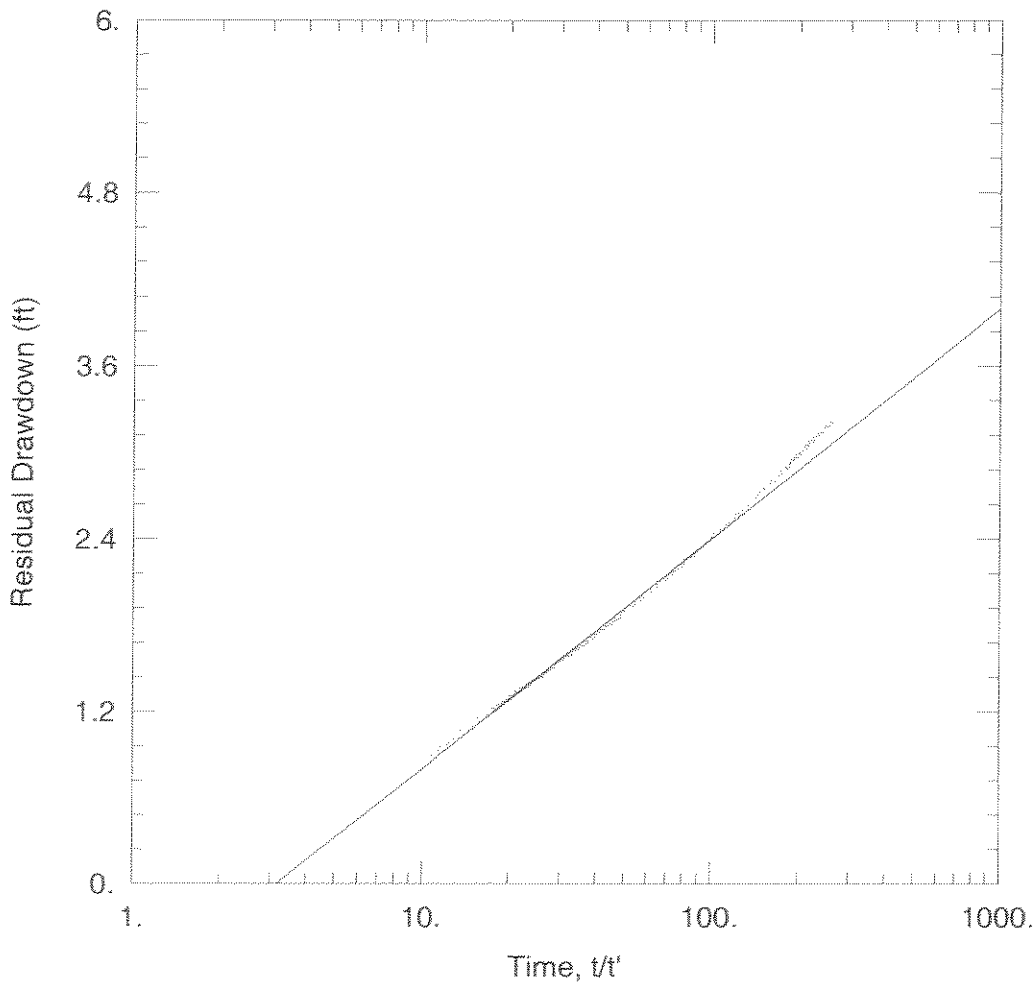
WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	e05	200	0

SOLUTION

Aquifer Model: Confined Solution Method: Cooper-Jacob
 T = 17.6 cm²/sec S = 0.0005842

$16 - 206 \times 10^{-1} = 1/5$



WELL TEST ANALYSIS

Data Set: W:\...\East transect e02 at 300-minutes recovery Theis.aqt
 Date: 04/07/06 Time: 07:31:06

AQUIFER DATA

Saturated Thickness: 28. ft Anisotropy Ratio (Kz/Kr): 1.

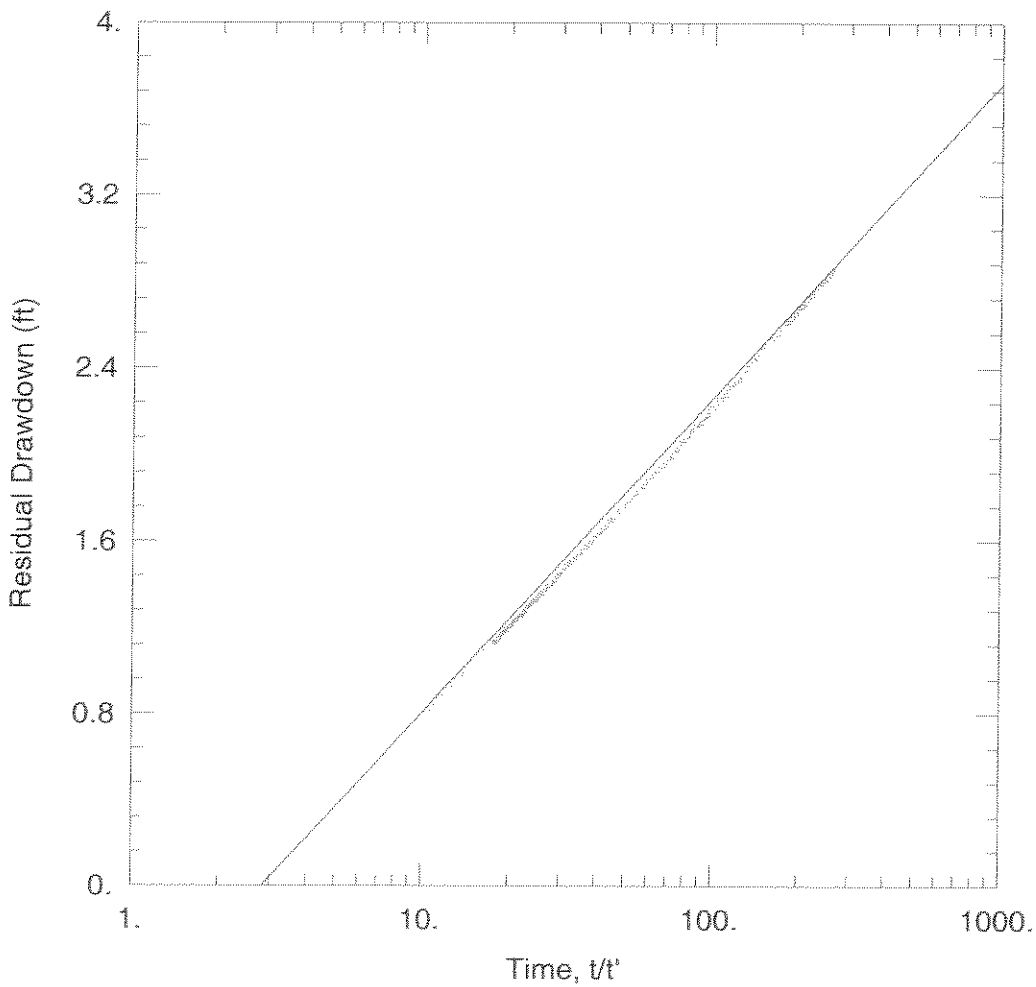
WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	e02	50	0

SOLUTION

Aquifer Model: Confined Solution Method: Theis (Recovery)
 $T = 11.63 \text{ cm}^2/\text{sec}$ $S/S' = 3.162$

$$K = 136 \times 10^{-1} \text{ cm/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\East transect e02 at 300-minutes recovery Theis.aqt
 Date: 04/07/06 Time: 07:32:13

AQUIFER DATA

Saturated Thickness: 28. ft Anisotropy Ratio (Kz/Kr): 1.

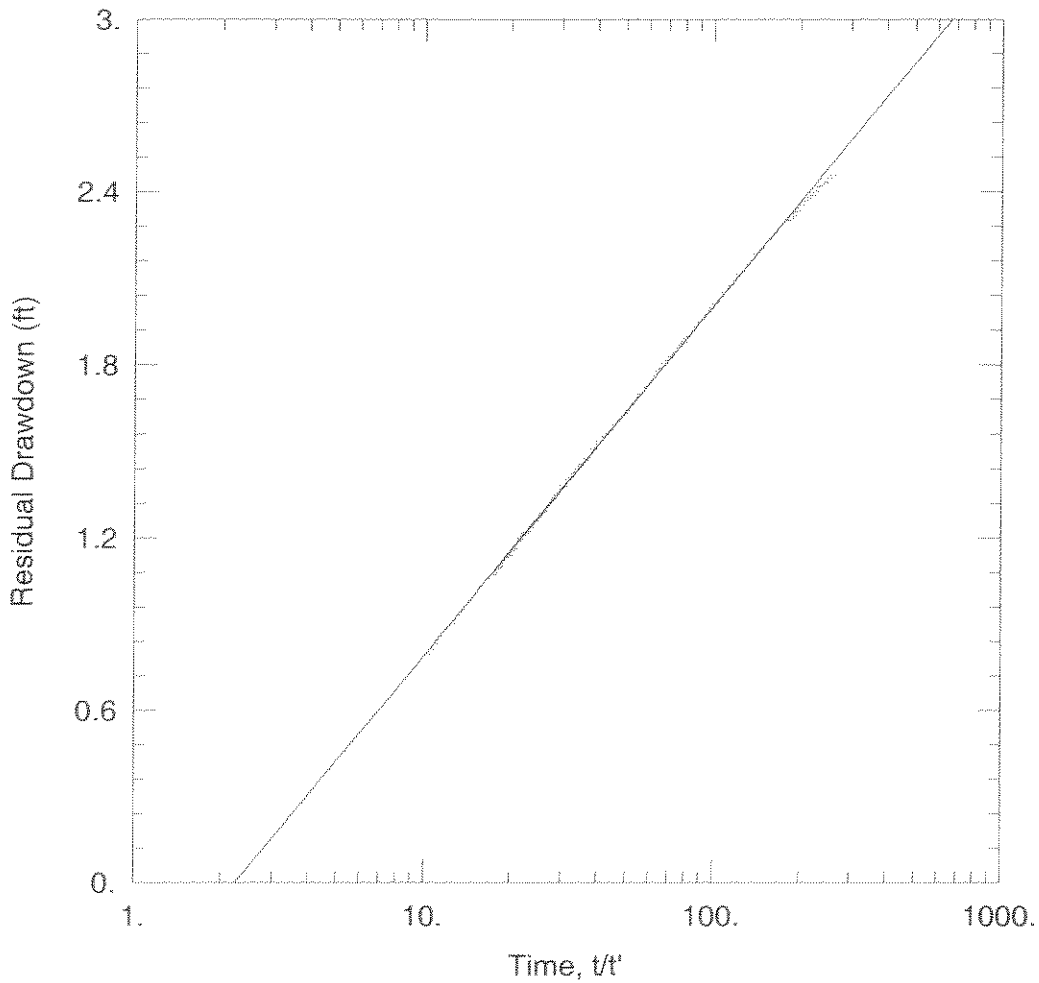
WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	e03	100	0

SOLUTION

Aquifer Model: Confined Solution Method: Theis (Recovery)
 $T = 12.75 \text{ cm}^2/\text{sec}$ $S/S' = 2.818$

$$K = 149 \times 10^{-4} \text{ c/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\East transect e04 at 300-minutes recovery Theis.aqt
 Date: 04/07/06 Time: 07:33:54

AQUIFER DATA

Saturated Thickness: 28. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

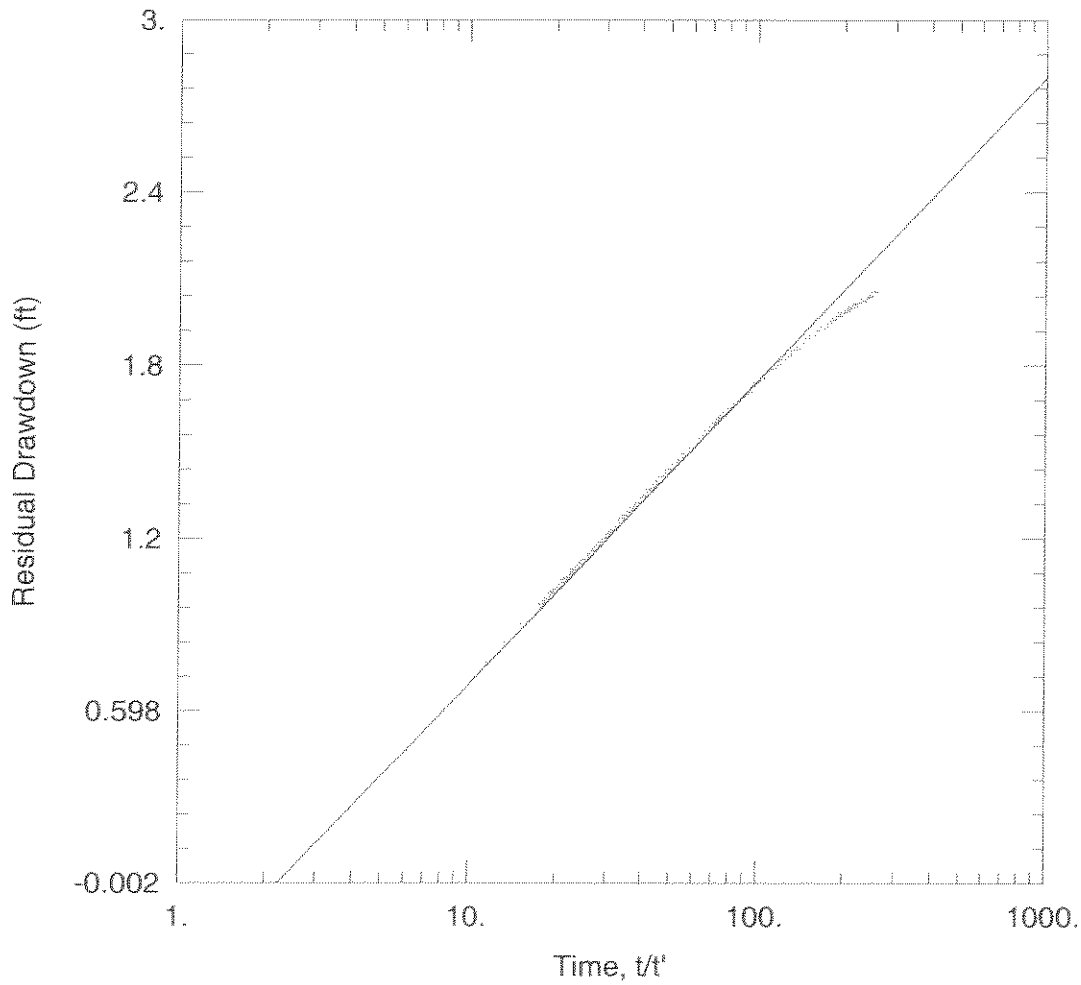
Observation Wells

Well Name	X (ft)	Y (ft)
e04	150	0

SOLUTION

Aquifer Model: Confined Solution Method: Theis (Recovery)
 $T = 15.33 \text{ cm}^2/\text{sec}$ $S/S' = 2.239$

$$K = 179 \times 10^{-4} \text{ cfs}$$



WELL TEST ANALYSIS

Data Set: W:\...\East transect e03 at 300-minutes recovery Theis.agt
 Date: 04/07/06 Time: 07:33:29

AQUIFER DATA

Saturated Thickness: 28. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	e05	200	0

SOLUTION

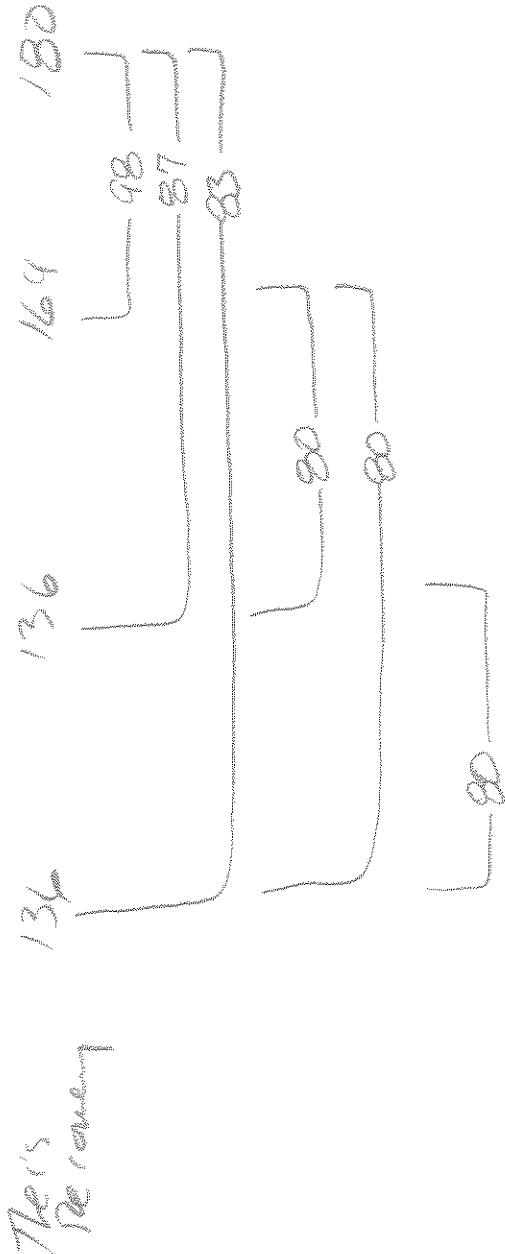
Aquifer Model: Confined Solution Method: Theis (Recovery)
 $T = 17.6 \text{ cm}^2/\text{sec}$ $S/S' = 2.239$

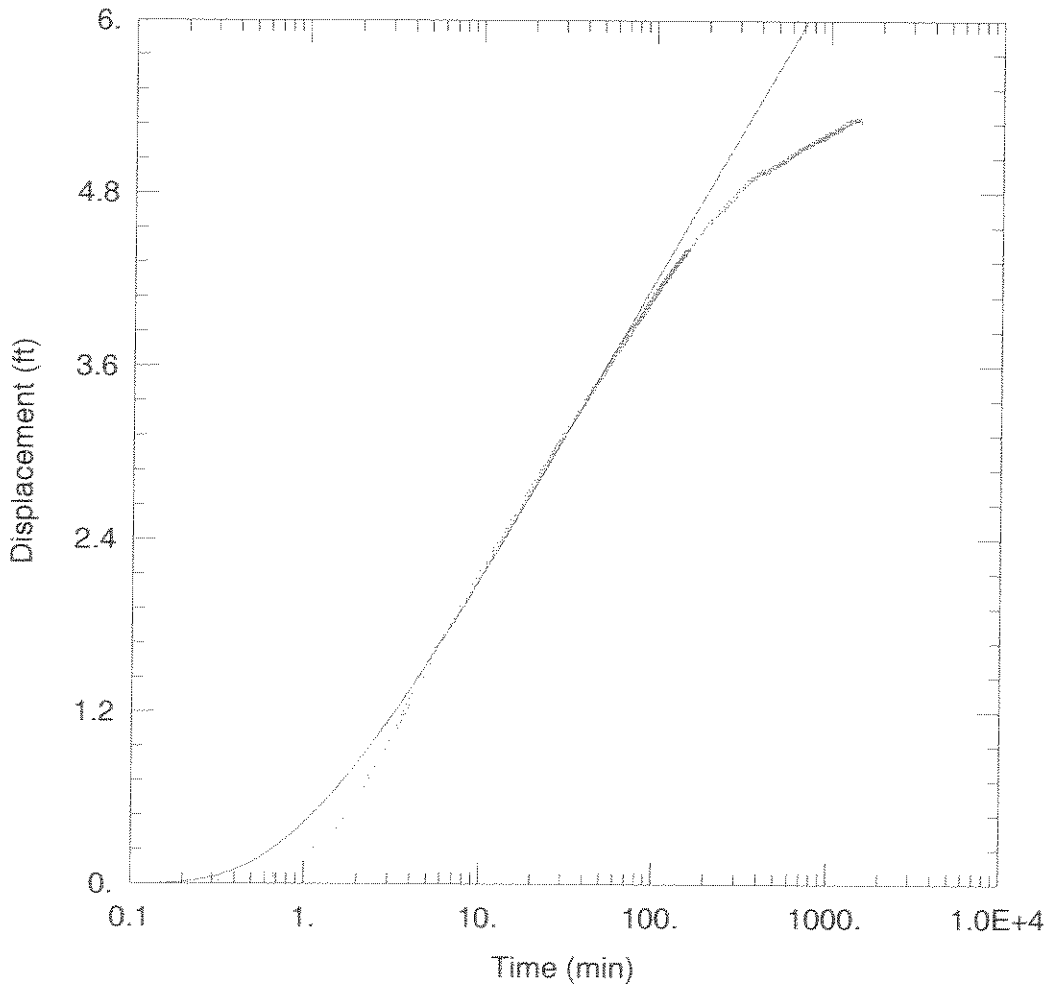
$$K = 206 \times 10^{-4} \text{ c/s}$$

Permeability Computations – West Transect
Observation Wells

West Traverse	(50') w18	(100') w19	(150') w20	(200') w21
Ther's	103	118	136	149
Coop Inc	103	130	156	171

Ther'm





WELL TEST ANALYSIS

Data Set: W:\...\West transect w18 at 1480 minutes CoopJac.aqt

Date: 04/06/06

Time: 16:10:30

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
w18	50	0

SOLUTION

Aquifer Model: Confined

Solution Method: Theis

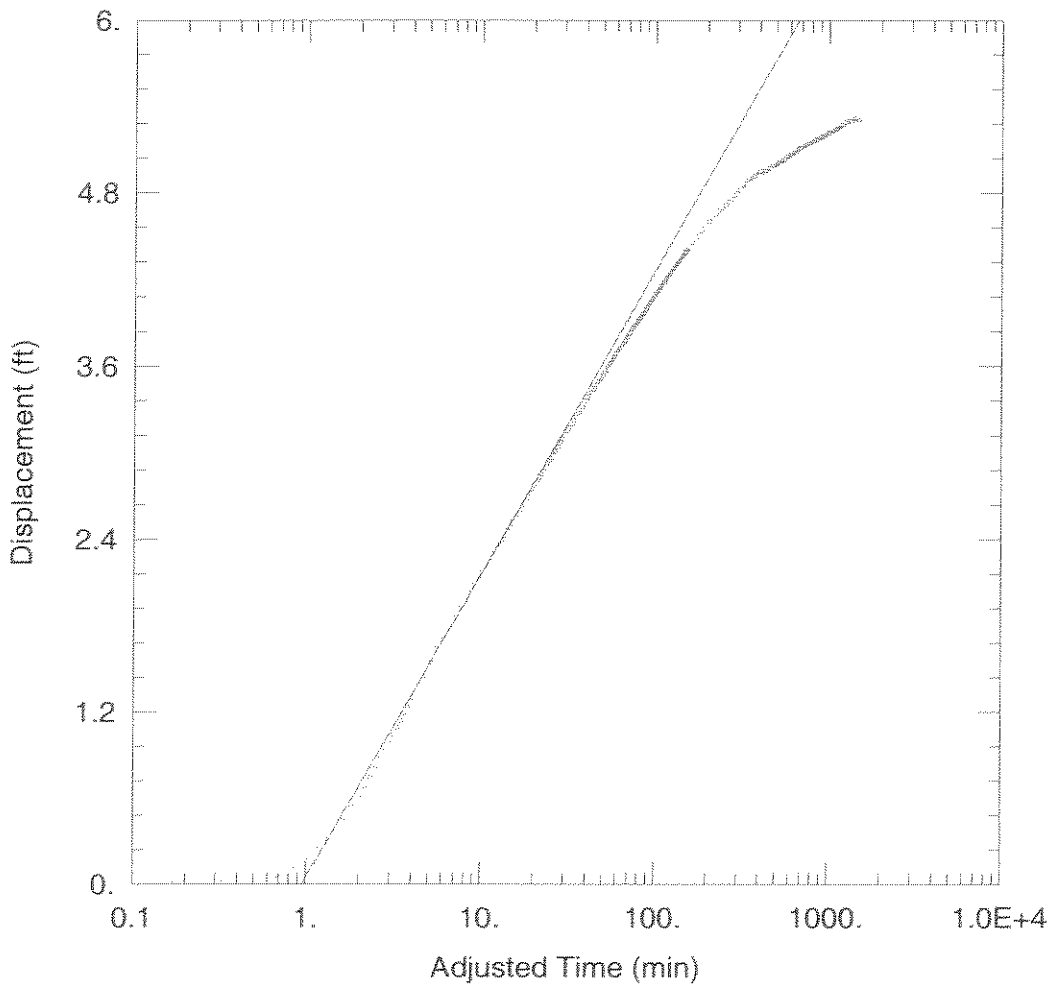
T = 8.82 cm²/sec

S = 0.0005328

Kz/Kr = 1.

b = 28. ft

K = 103 x 10⁻⁴ c/s



WELL TEST ANALYSIS

Data Set: W:\...\West transect w20 at 1480 minutes CoopJac.aqt

Date: 04/06/06

Time: 16:09:29

AQUIFER DATA

Saturated Thickness: 28. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
w18	50	0

SOLUTION

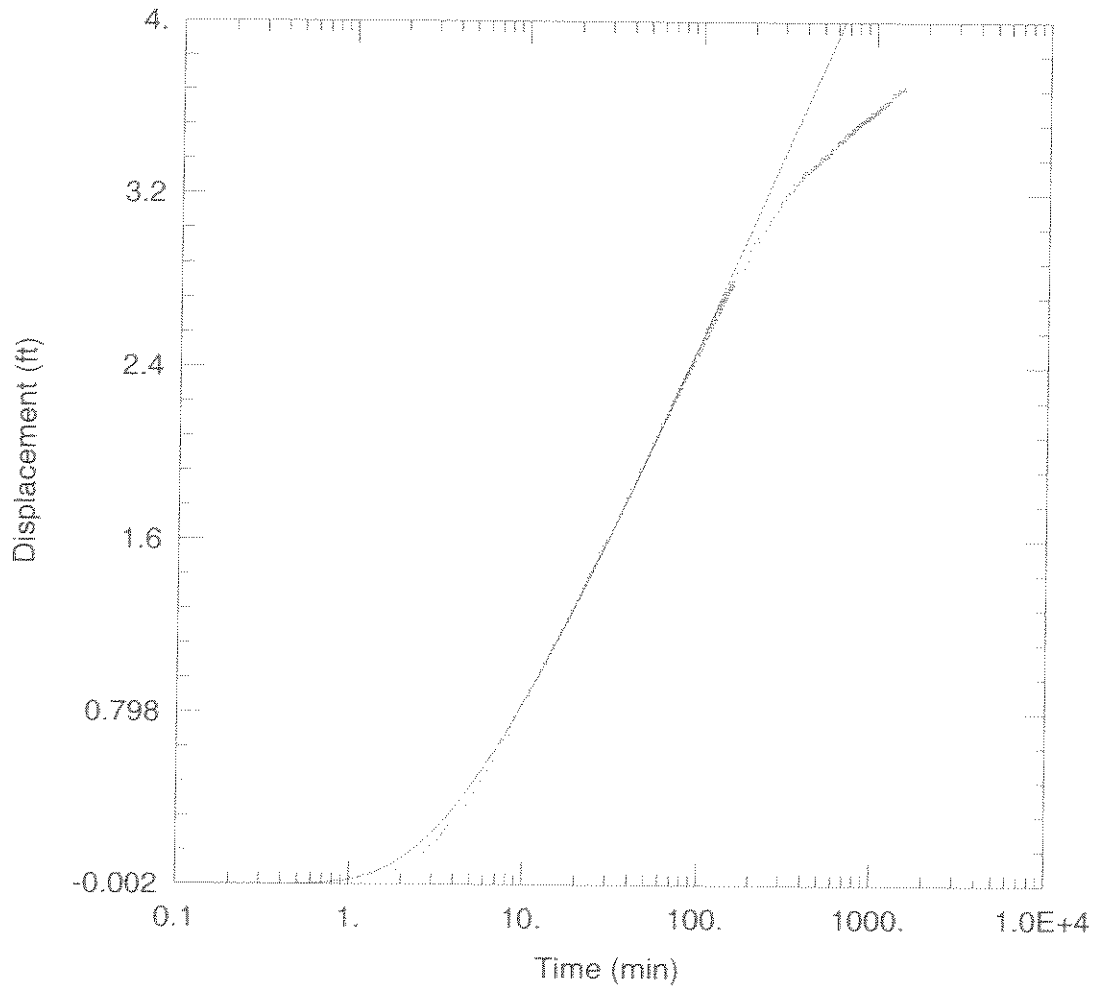
Aquifer Model: Confined

Solution Method: Cooper-Jacob

T = 8.82 cm²/sec

S = 0.0004859

$$K = 103 \times 10^{-4} \text{ e/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\West transect w18 at 1480 minutes Thies.aqt

Date: 04/06/06

Time: 16:11:49

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
w19	100	0

SOLUTION

Aquifer Model: Confined

Solution Method: Theis

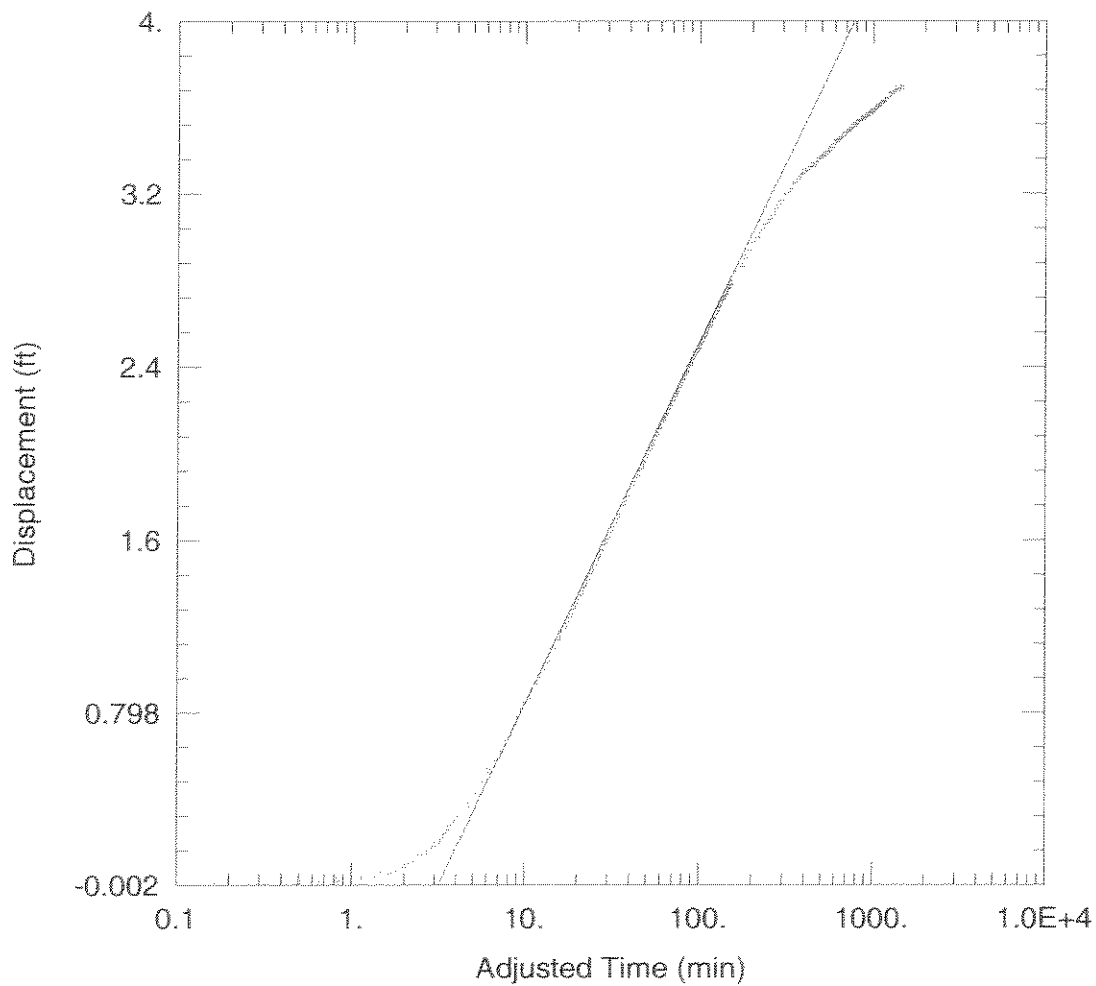
T = 10.13 cm²/sec

S = 0.0006406

Kz/Kr = 1.

b = 28. ft

$$K = 118 \times 10^{-9} \text{ c/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\West transect w19 at 1480 minutes Thies.aqt
 Date: 04/06/06 Time: 16:12:19

AQUIFER DATA

Saturated Thickness: 28 ft Anisotropy Ratio (Kz/Kr): 1

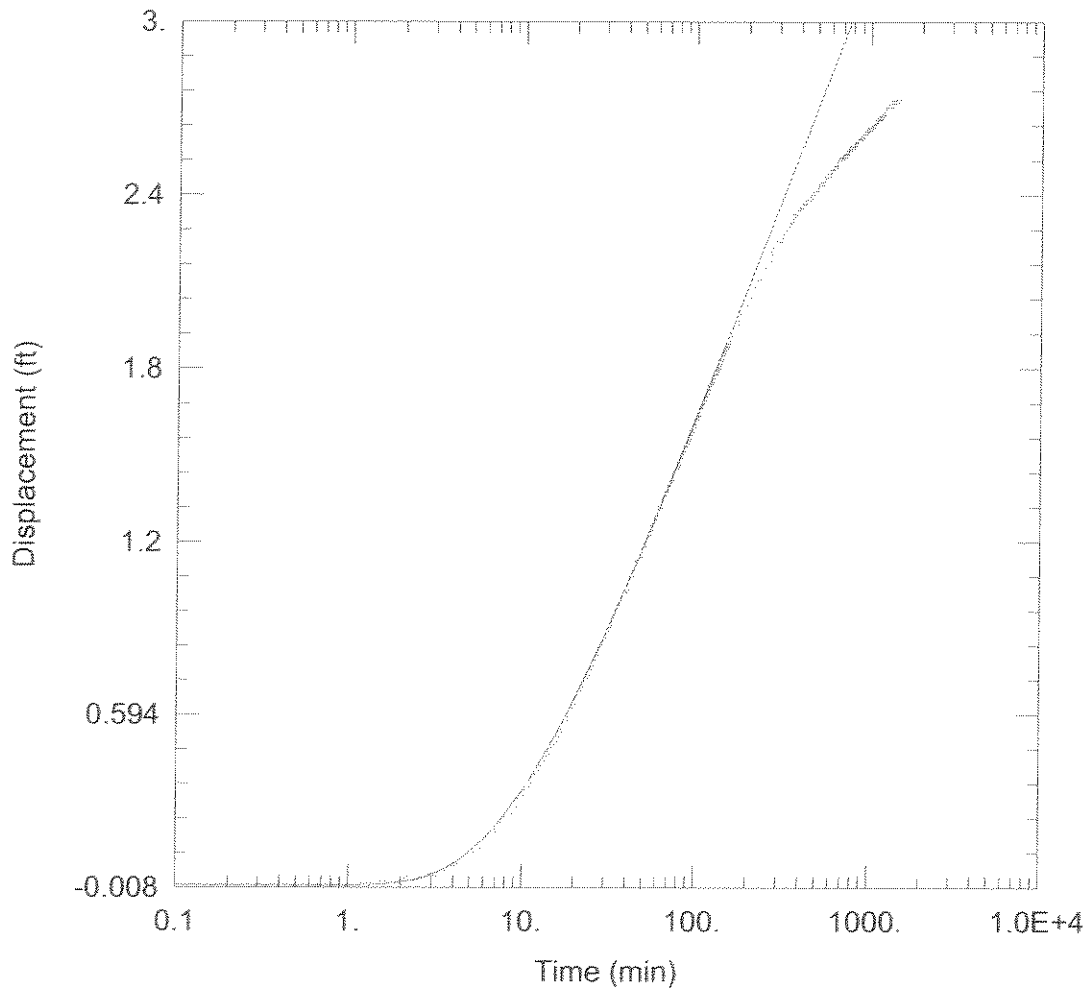
WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	w19	100	0

SOLUTION

Aquifer Model: Confined Solution Method: Cooper-Jacob
 T = 11.1 cm²/sec S = 0.0005088

$K = 130 \times 10^{-4} \text{ c/s}$



WELL TEST ANALYSIS

Data Set: C:\...\West transect w20 at 1480 minutes Theis.aqt

Date: 03/07/06

Time: 20:24:33

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
w20	150	0

SOLUTION

Aquifer Model: Confined

Solution Method: Theis

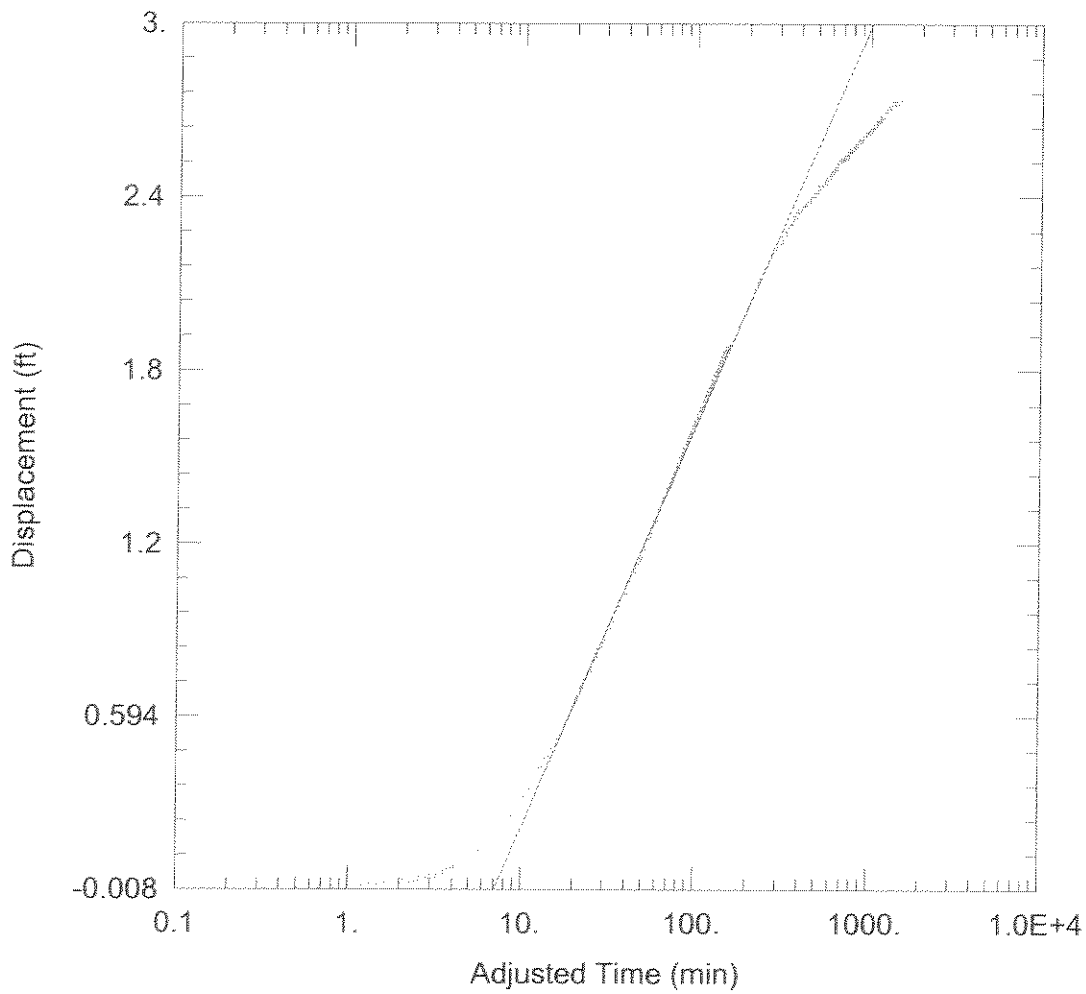
T = 11.63 cm²/sec

S = 0.0007701

Kz/Kr = 1.

b = 28. ft

$$K = 11.63 / 853.44 = 136 \times 10^{-4} \text{ cm/s}$$



WELL TEST ANALYSIS

Data Set: C:\...\West transect w20 at 1480 minutes CoopJac.aqt

Date: 03/07/06

Time: 20:24:17

AQUIFER DATA

Saturated Thickness: 28. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	w20	150	0

SOLUTION

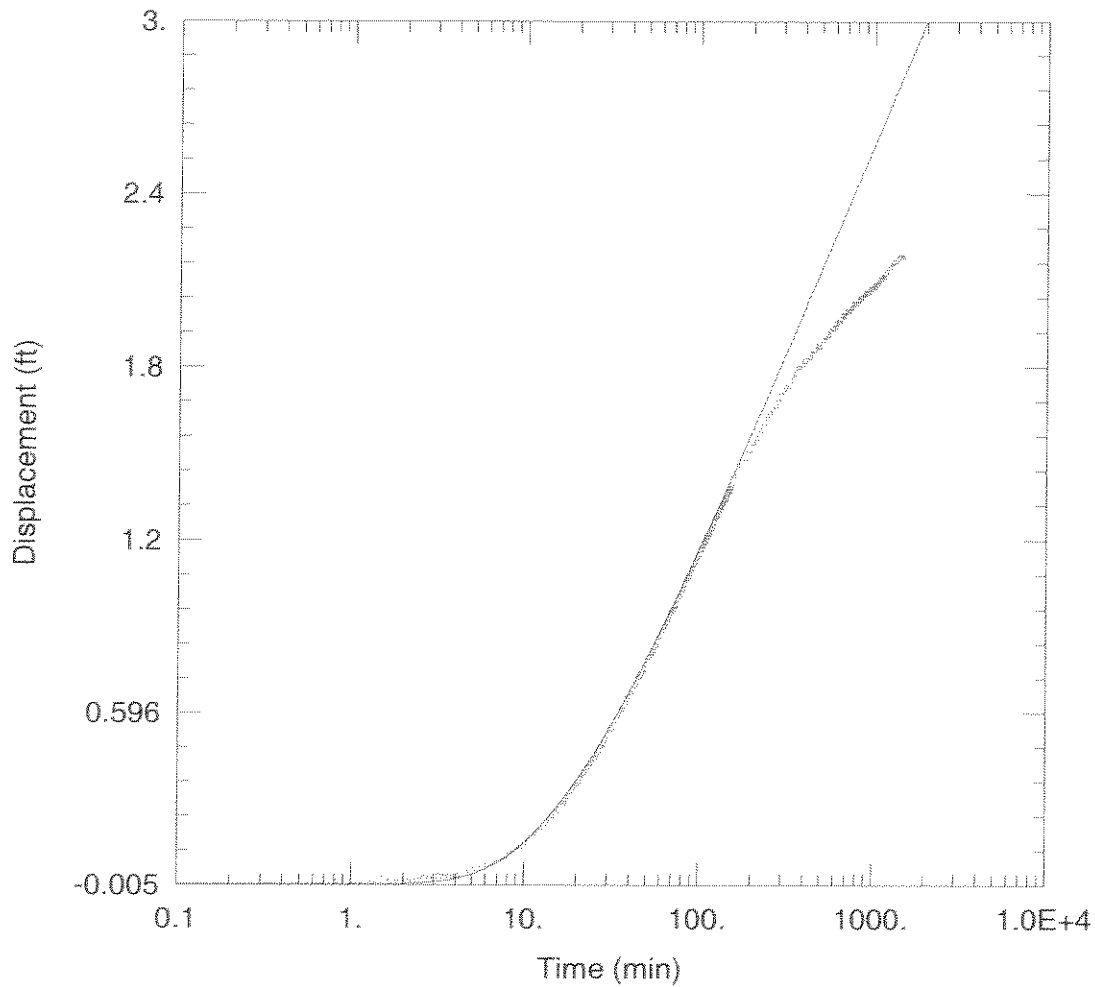
Aquifer Model: Confined

Solution Method: Cooper-Jacob

T = 13.35 cm²/sec

S = 0.0006117

$$K = 13.35 / 853.44 = 156 \times 10^{-4} \text{ cm/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\West transect w21 at 1480 minutes CoopJac.aqt

Date: 04/06/06

Time: 16:14:14

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
w21	200	0

SOLUTION

Aquifer Model: Confined

Solution Method: Theis

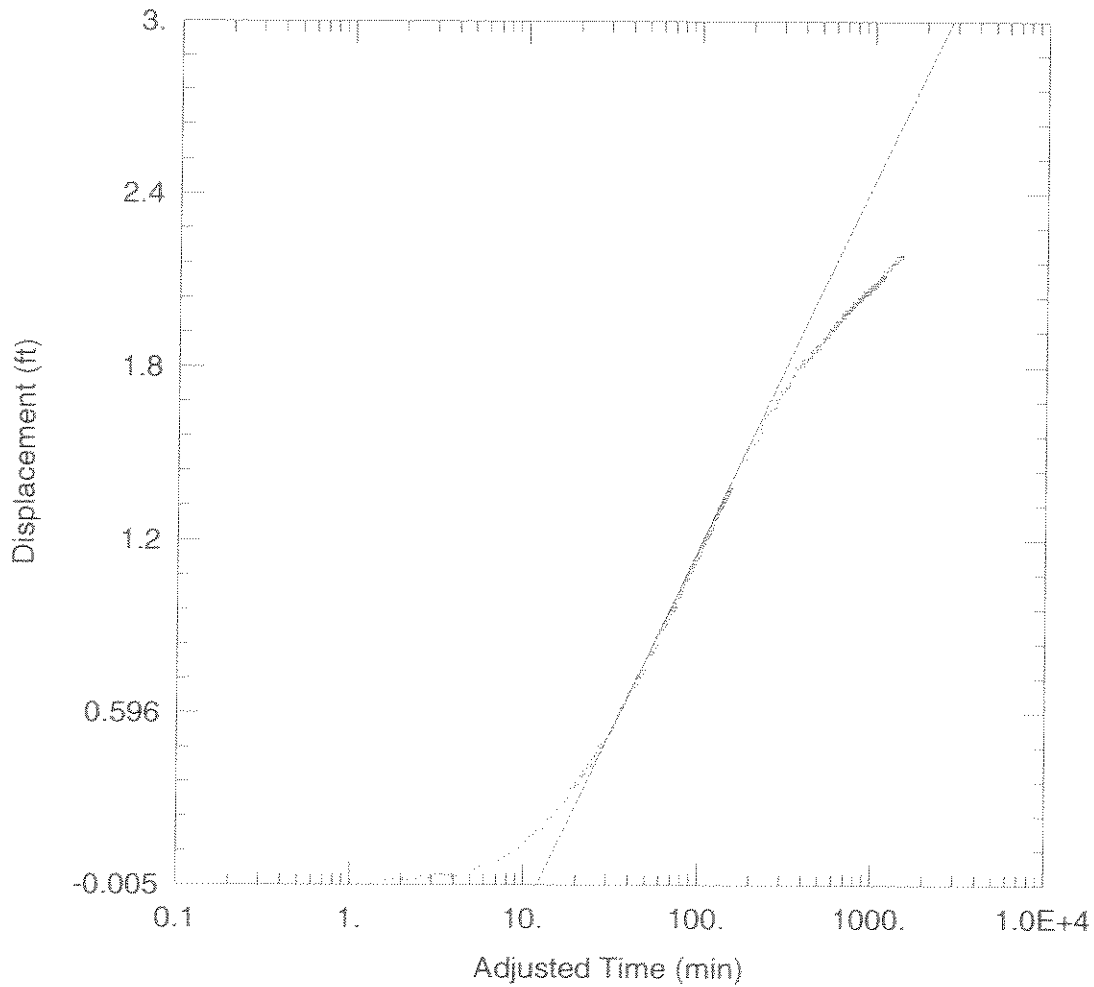
T = 12.75 cm²/sec

S = 0.0008064

Kz/Kr = 1.

b = 28. ft

$\gamma = 149 \times 10^{-9} \text{ c/s}$



WELL TEST ANALYSIS

Data Set: W:\...\West transect w19 at 1480 minutes CoopJac.aqt

Date: 04/06/06

Time: 16:13:28

AQUIFER DATA

Saturated Thickness: 28. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
w21	200	0

SOLUTION

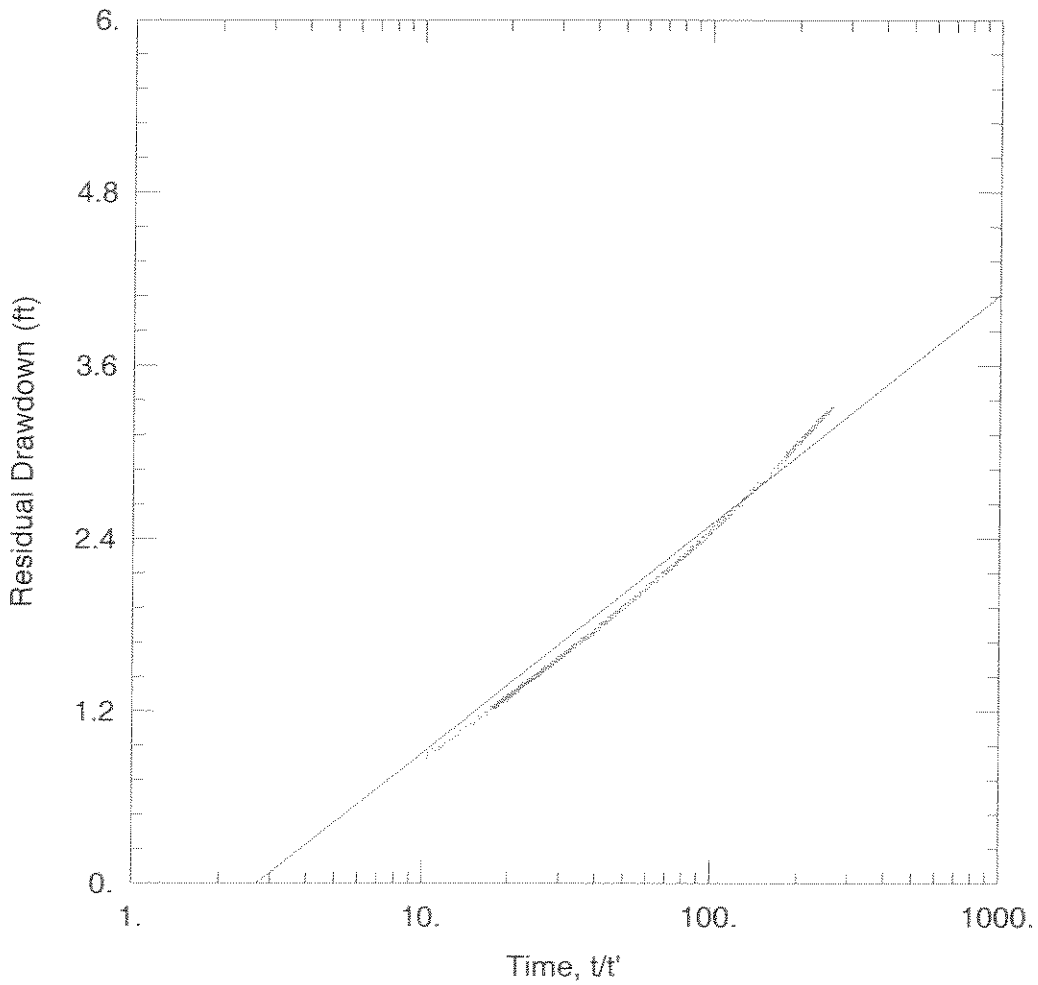
Aquifer Model: Confined

Solution Method: Cooper-Jacob

T = 14.64 cm²/sec

S = 0.0006406

$$K = 171 \times 10^{-4} \text{ c/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\West transect w20 at 300 minutes recovery Theis.aqt
 Date: 04/07/06 Time: 07:57:51

AQUIFER DATA

Saturated Thickness: 28. ft Anisotropy Ratio (Kz/Kr): 1.

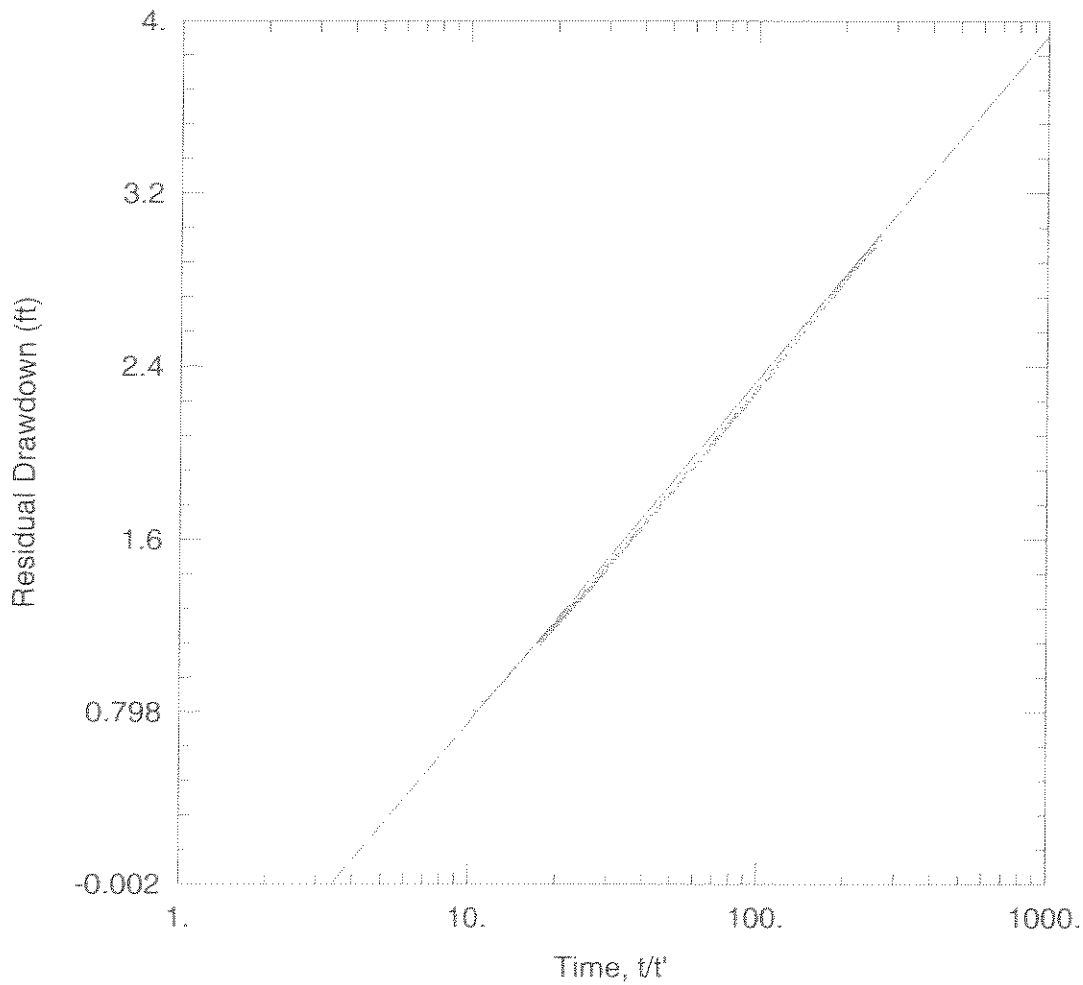
WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	w18	50	0

SOLUTION

Aquifer Model: Confined Solution Method: Theis (Recovery)
 $T = 11.68 \text{ cm}^2/\text{sec}$ $S/S' = 2.696$

$$K = 136 \times 10^{-4} \text{ c/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\West transect w18 at 300 minutes recovery Theis.aqt

Date: 04/07/06

Time: 07:58:59

AQUIFER DATA

Saturated Thickness: 28. ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
w19	100	0

SOLUTION

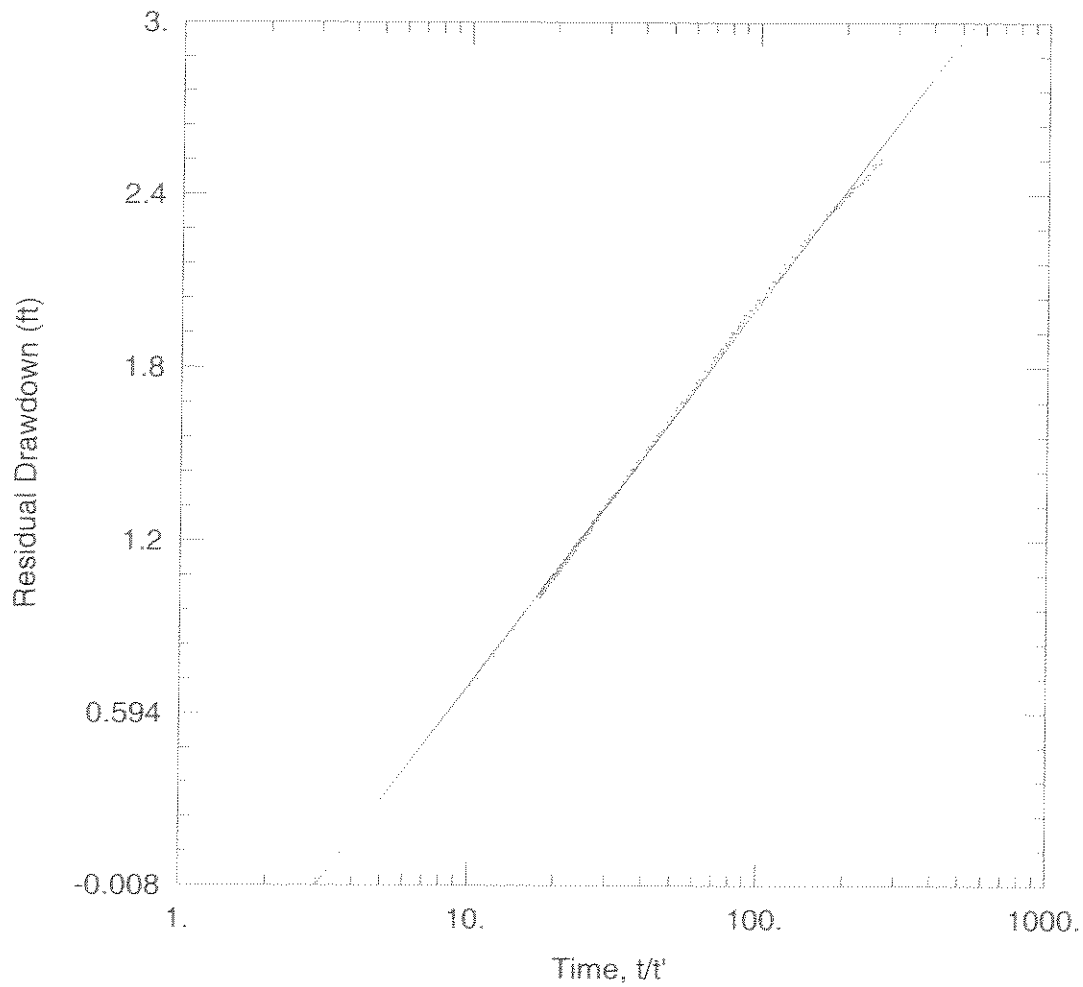
Aquifer Model: Confined

Solution Method: Theis (Recovery)

$T = 11.68 \text{ cm}^2/\text{sec}$

$S/S' = 3.394$

$$K = 136 \times 10^{-11} \text{ c/s}$$



WELL TEST ANALYSIS

Data Set: W:\...\West transect w20 at 300 minutes recovery Theis.aqt
 Date: 04/07/06 Time: 07:56:48

AQUIFER DATA

Saturated Thickness: 28. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
London	0	0

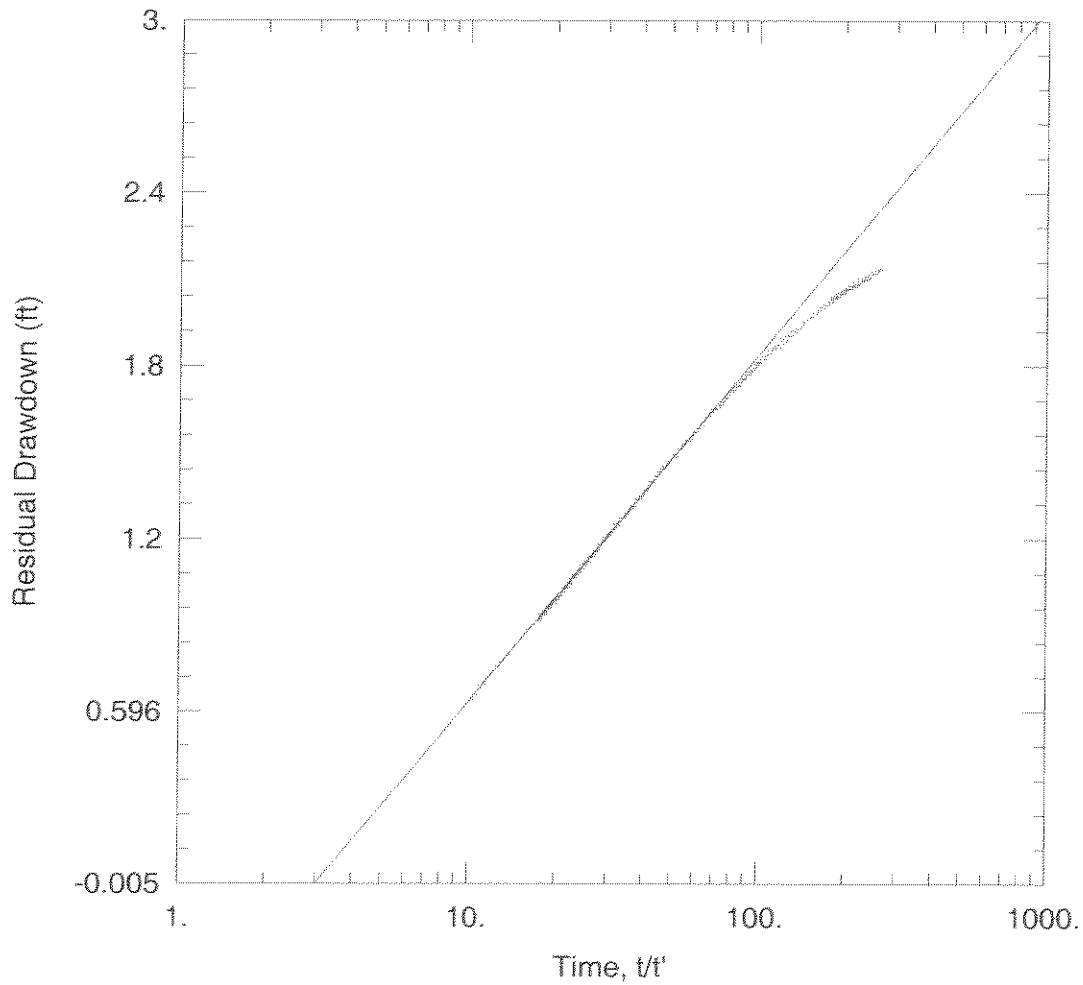
Observation Wells

Well Name	X (ft)	Y (ft)
w20	150	0

SOLUTION

Aquifer Model: Confined Solution Method: Theis (Recovery)
 $T = 14.04 \text{ cm}^2/\text{sec}$ $S/S' = 3.025$

K = $1.64 \times 10^{-4} \text{ c/s}$



WELL TEST ANALYSIS

Data Set: W:\...\West transect w19 at 300 minutes recovery Theis.agt
 Date: 04/07/06 Time: 08:00:03

AQUIFER DATA

Saturated Thickness: 28. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
London	0	0	w21	200	0

SOLUTION

Aquifer Model: Confined Solution Method: Theis (Recovery)
 T = 15.39 cm²/sec S/S' = 3.025

$$K = 180 \times 10^{-21} \text{ cfs}$$

Ordering of Computed Permeability

London Pumping Test

Piezo	Perm
s29	236
s29	226
e05	206
e05	206
s29	206
w21	180
s28	179
e04	179
n13	179
s28	179
e05	171
s28	171
w21	171
w20	164
e04	163
n13	163
n13	156 ← 2/3
w20	156
n12	156
s27	156
e04	149
w21	149
n12	149
s27	149
e03	149
n12	136
w20	136
s27	136
e03	136
e02	136
n10	136
n11	136
w18	136 ← 1/3
w19	136
s26	136
n11	130
w19	130
e03	124
n11	118
w19	118
e02	113
n10	113
s26	113
n10	108
s26	108
e02	103
w18	103
w18	103

London Pumping Test				
		Theis	CoopJac	Recovery
	e02	103	113	136
	e03	124	136	149
	e04	149	163	179
	e05	171	206	206
	n10	108	113	136
	n11	118	130	136
	n12	136	149	156
	n13	156	163	179
	w18	103	103	136
	w19	118	130	136
	w20	136	156	164
	w21	149	171	180
	s26	108	113	136
	s27	136	149	156
	s28	171	179	179
	s29	236	226	206
	Avg	139	150	161
	Max	236	226	206
	Min	103	103	136
	Avg All	152		
	Max All	236		
	Mn All	103		

London Pumping Test - Order Theis		
		Theis
s29		236
e05		171
s28		171
n13		156
e04		149
w21		149
n12		136
w20		136
s27		136
e03		124
n11		118
w19		118
n10		108
s26		108
e02		103
w18		103

← 2/3

← 1/3

London Pumping Test - Order Cooper Jacob

	CoopJac	
s29	226	
e05	206	
s28	179	
w21	171	
e04	163	
n13	163	
w20	156	
n12	149	
s27	149	
e03	136	
n11	130	
w19	130	
e02	113	
n10	113	
s26	113	
w18	103	

← 2/3

← 1/3

London Pumping Test - Ordered Recovery		
		Recovery
e05		206
s29		206
w21		180
e04		179
n13		179
s28		179
w20		164
n12		156
s27		156
e03		149
e02		136
n10		136
n11		136
w18		136
w19		136
s26		136

← 2/3

← 1/3