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Farmington Hills (248) 324-2090

BOREHOLE LOG

BORING/WELL ID: **TW-19**

TOTAL DEPTH (ft.): **215.5'**

PROJECT: Pall Life Sciences Inc.
SITE LOCATION: Ann Arbor, Michigan
PROJECT NO.: F96502
PROJECT MANAGER: James W. Brode, Jr., C.P.G.
LOGGED BY: Todd Campbell, C.P.G.

START DATE: 10-31-05
END DATE: 12-05-05
TOC ELEV.: 911.80'
GROUND ELEV.: Approx. 913'
STATIC WATER LVL.: 47.2' BGS

DRILLING CO.: Stearns Drilling
DRILLER: Dennis/Roger, John; Dick/Ralph
RIG TYPE: CME 95, Schramm T450M II
METHOD OF DRILLING: Hollow Stem Auger/Mud Rotary
SAMPLING METHODS: Split Spoon, Simulprobe

NOTES: Maple Village Shopping Center, Pilot Boring PLS-05-07
Field GPS Coordinates (N42.28315, W083.78113), Acc. 19'

▼ Static Water Level

DESCRIPTION	PID ppm	GRAPHIC LOG	DEPTH (ft. bgl)	Static Water Level	Sample/ Revovery	Sample ID	Blow Counts	WELL CONSTRUCTION DETAIL
ASPHALT: Asphalt			0					
CLAYEY SILT: Silt; Clay. Dark grayish brown, medium stiff, dry			2					
			4					
			6					
			8					
			10		1.9'		3,3,5,6	
			12					
			14					
			16					
			18					
Silt; Clay; trace Sand, fine grained; trace fine Gravel. Grayish brown, stiff, dry			20		2.0'		3,5,6,9	Neat Cement
			22					
			24					
			26					
SAND: Sand, fine to medium grained; trace fine Gravel. Grayish brown, well sorted, medium dense, dry			28					
Sand, fine to medium grained; fine Gravel. Grayish brown, moderately sorted, medium dense, dry			30		1.9'		4,7,16,16	
			32					
			34					
			36					
DIAMICTON: Silt; Sand, fine grained; trace Clay; trace fine Gravel. Grayish brown, very stiff, dry			38					
			40		1.6'		4,10,12,16	
			42					
			44					8" Steel Casing
SILT: Silt; trace Clay. Grayish brown, moist			46	▼				
			48					
			50		2.0'		6,10,11,17	
SILTY SAND: Sand, fine grained; Silt. Grayish brown, well sorted, medium dense, wet			52					
CLAY: Driller notes Clay			54					
SAND AND GRAVEL: Sand, coarse to fine grained; fine Gravel; trace Silt. Gray, moderately sorted, medium dense, wet			56					

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Field GPS Coordinates (N42.28315, W083.78113), Acc. 19'

▼ Static Water Level

DESCRIPTION	PID ppm	GRAPHIC LOG	DEPTH (ft. bgl)	Static Water Level	Sample/ Revovery	Sample ID	Blow Counts	WELL CONSTRUCTION DETAIL
			58					
			60		1.8'		0,5,7,8	Simulprobe sample 60-61.5' (<1 ug/L)
			62					
			64					
			66					Neat Cement
			68					
			70		1.5'		9,10,12	Simulprobe sample 70-71.5' (<1 ug/L)
			72					
			74					
			76					
			78					
			80		1.2'		2,2,7,8	
DIAMICTON: Clay; Silt; trace fine Sand, trace fine Gravel. Gray, medium stiff, dry			82					
			84					
			86					
			88					
			90		1.0'		NA	
			92					
			94					
			96					8" Steel Casing
			98					
			100		2.0'		4,4,4,5	Simulprobe sample 100-101.5' (<1 ug/L)
SAND: Sand, fine grained; Silt. Grayish brown, well sorted, loose, wet			102					
			104					
			106					
			108					
			110		0.5'		11,19,35	Simulprobe sample 110-111.5' (<1 ug/L)
SILT: Silt; Sand, fine grained; fine Gravel. Grayish brown, moist			112					
			114					

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BOREHOLE LOG

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NOTES: Maple Village Shopping Center, Pilot Boring PLS-05-07
Field GPS Coordinates (N42.28315, W083.78113), Acc. 19'

▼ Static Water Level

DESCRIPTION	PID ppm	GRAPHIC LOG	DEPTH (ft. bgl)	Static Water Level	Sample/ Revovery	Sample ID	Blow Counts	WELL CONSTRUCTION DETAIL
SAND AND GRAVEL: Sand, fine to coarse grained; trace fine Gravel. Grayish brown, moderately sorted, wet			116		1.4'		5,10,19,27	
			118					
			120		0.1'		32,45,70	Simulprobe sample 120-121.5' (13 ug/L)
Sand, coarse to fine grained; trace fine Gravel; Cobbles. Grayish brown, poorly sorted, very dense, wet			122					
			124					
			126		1.3'		22,40,100 (3")	
			128					
As above with trace Silt			130		0.5'		105,180	Simulprobe sample 130-131' (321 ug/L)
			132					
			134					
Sand, coarse to fine grained; trace fine Gravel; Rock fragments; trace Silt. Grayish brown, poorly sorted, very dense, wet			136		1.4'		12,23,41, 51	8" Steel Casing
			138					
			140		0.1'		62,200 (2")	Simulprobe sample 139-141' (209 ug/L)
			142					
CLAY: Driller notes Clay			144					
SAND AND GRAVEL: Sand, coarse to fine grained; fine to coarse Gravel; Cobbles. Grayish brown, poorly sorted, very dense, wet			146		1.6'		25,47,87, 90	Neat Cement
			148					
As above, Silty			150		0.1'		93,150 (2")	Simulprobe sample 150-151' (661 ug/L)
			152					
			154					
			156		0.3'		45,100	
			158					
As above, from Sand bailer			160		0'		75,120, 143	Simulprobe sample 160-161.5' (869 ug/L)
			162					
			164					
Sand, coarse to fine grained; fine Gravel; Silt. Grayish brown, poorly sorted, very dense, wet			166		1.3'		20,28,33, 42	#5 Sand Pack from 160 to 195 feet
			168					
Sand, fine to coarse grained; fine Gravel. Brown, moderately sorted, wet			170		1.0'		55,150	Simulprobe sample 170-171' (596 ug/L)

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BOREHOLE LOG

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TOTAL DEPTH (ft.): **215.5'**

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NOTES: Maple Village Shopping Center, Pilot Boring PLS-05-07
Field GPS Coordinates (N42.28315, W083.78113), Acc. 19'

▼ Static Water Level

DESCRIPTION	PID ppm	GRAPHIC LOG	DEPTH (ft. bgl)	Static Water Level	Sample/ Revovery	Sample ID	Blow Counts	WELL CONSTRUCTION DETAIL
Sand, coarse to fine grained; trace fine Gravel. Brown, moderately sorted, very dense, wet			172					8" Stainless Steel Screen (35 Slot) from 170 to 195 feet bgs
			174					
			176		1.6'		30,42,85	
Sand, coarse to fine grained; fine Gravel. Grayish brown, moderately sorted, very dense, wet (from Sand bailer)			178					
			180		0'		37,145, 117	Simulprobe sample 180-181.5' (484 ug/L)
Sand, coarse to fine grained; trace fine Gravel. Grayish brown, moderately sorted, dense, wet			182					
			184					
			186		1.8'		9,14,22, 34	
CLAY: Driller notes Clay			188					
SAND AND GRAVEL: Sand, coarse to fine grained; Silt; fine Gravel. Grayish brown, poorly sorted, dense, wet			190		1.7'		11,38,110, Refusal	Simulprobe sample 190-191.5' (624 ug/L)
			192					
			194					
			196		0.9'		5,9,23	8" Stainless Steel Screen (20 Slot) from 195 to 200 feet bgs
SAND: Sand, medium to fine grained. Grayish brown, well sorted, very dense, wet (from Sand bailer)			198					
			200		0'		112,100 (1")	#6 Sand Pack from 195 to 200 feet bgs
			202					Simulprobe sample 200-201' (621 ug/L)
Sand, fine to medium grained. Grayish brown, well sorted, very dense, wet			204					
			206		1.5'		17,53,125	
			208					
SAND AND GRAVEL: Sand, fine to medium grained; fine Gravel. Grayish brown, moderately sorted, very dense, wet			210		0'		30, 200 (4")	Simulprobe sample 210-211' (513 ug/L)
			212					
DIAMICTON: Silt; Sand, fine grained; trace fine Gravel. Grayish brown, hard, dry			214					
			216		0.2'		110 (6")	

Table 2 – Barometric Efficiency Summary
TW-19 Aquifer Test
Pall Life Sciences, Ann Arbor, Michigan

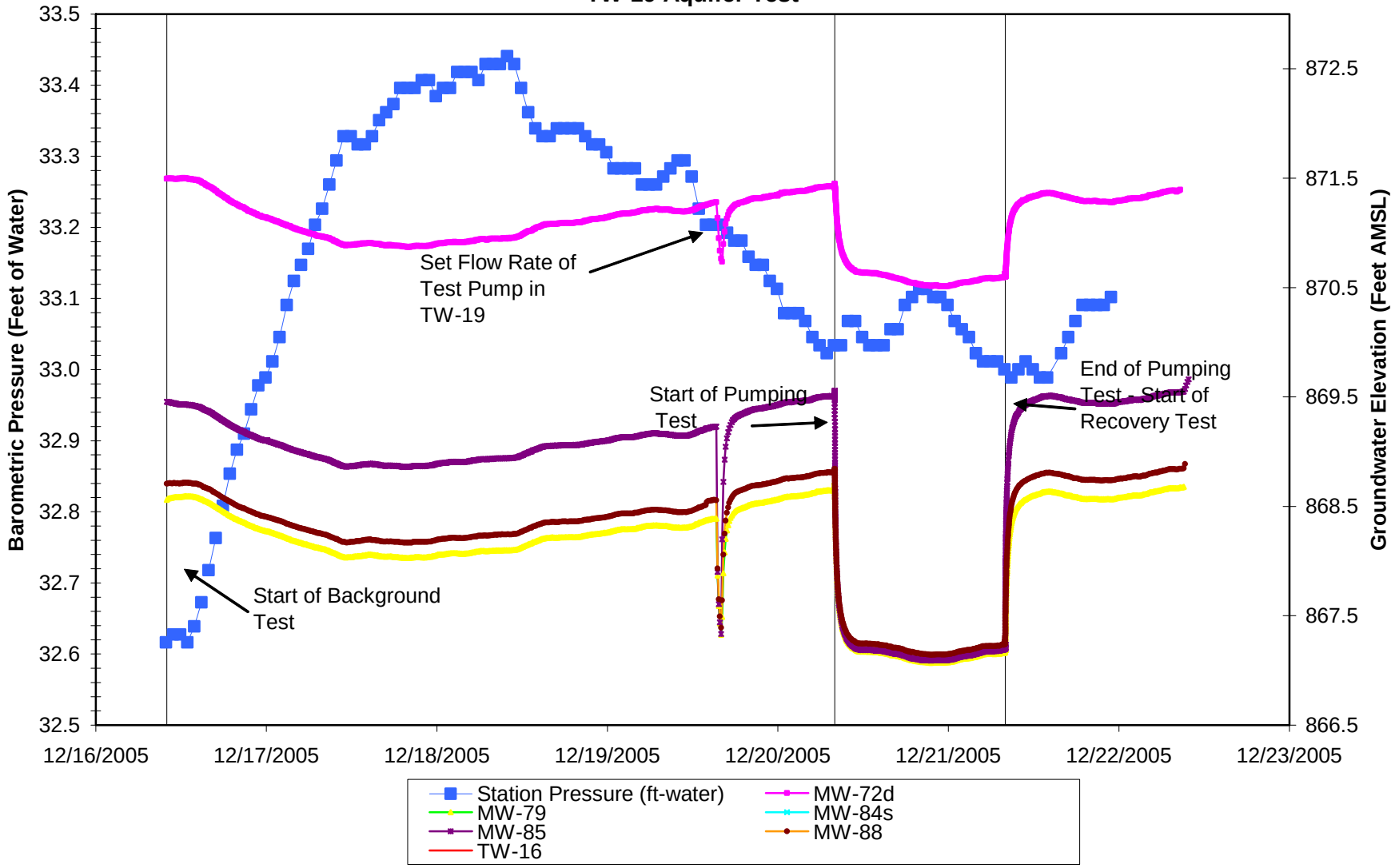
	Drawdown (feet)						Date	Time	Station Pressure (ft-water)
Date Time	MW-72d	MW-79	MW-84s	MW-85	MW-88	TW-16			
12/16/2005 14:50	-0.029	0.006	-0.002	-0.056	-0.016	-0.008	12/16/2005	14:53	32.672705
12/18/2005 3:50	-0.58	-0.493	-0.169	-0.55	-0.497	-0.25	12/18/2005	3:53	33.418348
Change in Drawdown/Pressure	-0.551	-0.499	-0.167	-0.494	-0.481	-0.242			0.7456
Barometric Efficiency (%)	73.9	66.9	22.4	66.3	64.5	32.5			

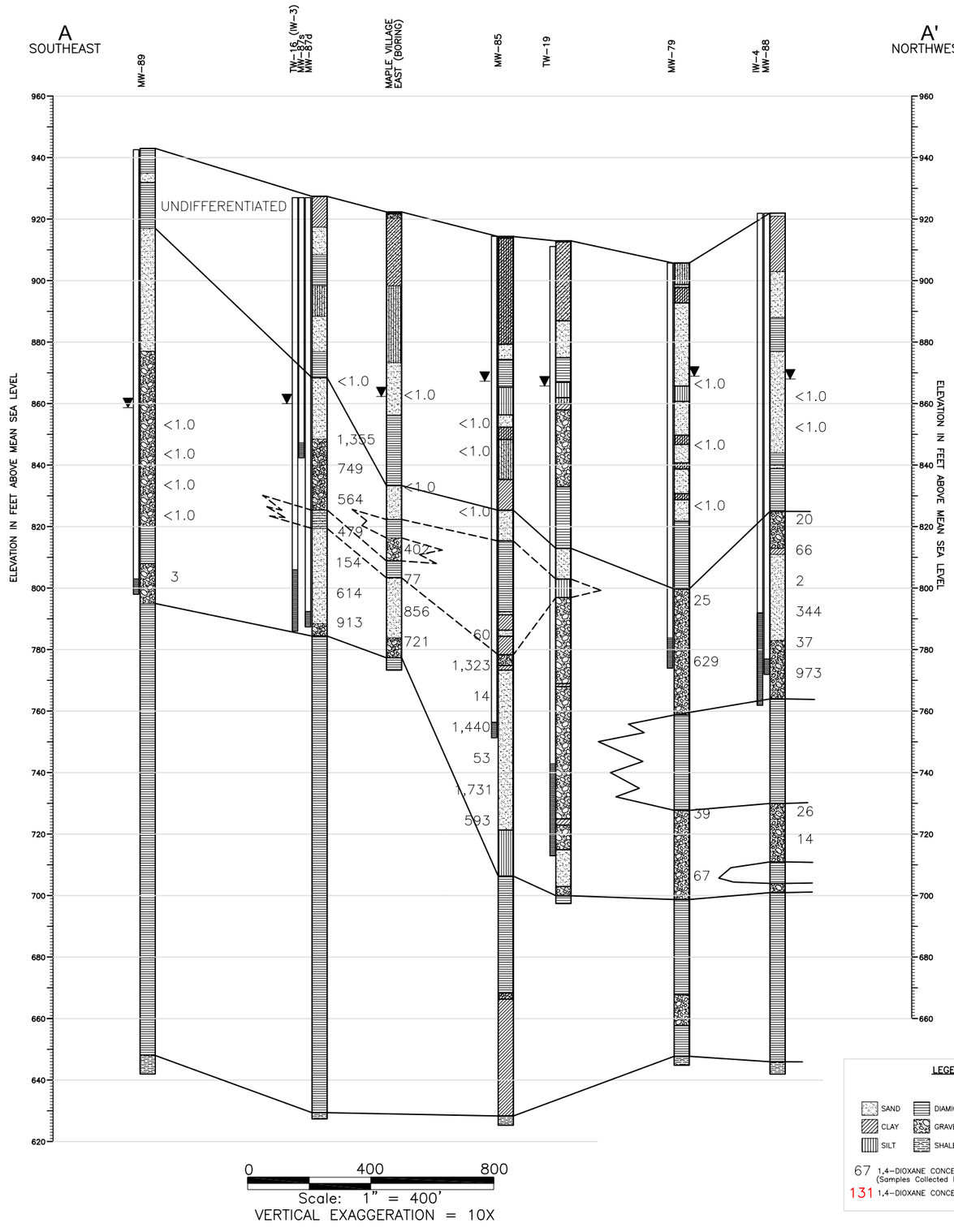
Table 1 – Observation Well Information
TW-19 Aquifer Test
Pall Life Sciences, Ann Arbor, Michigan

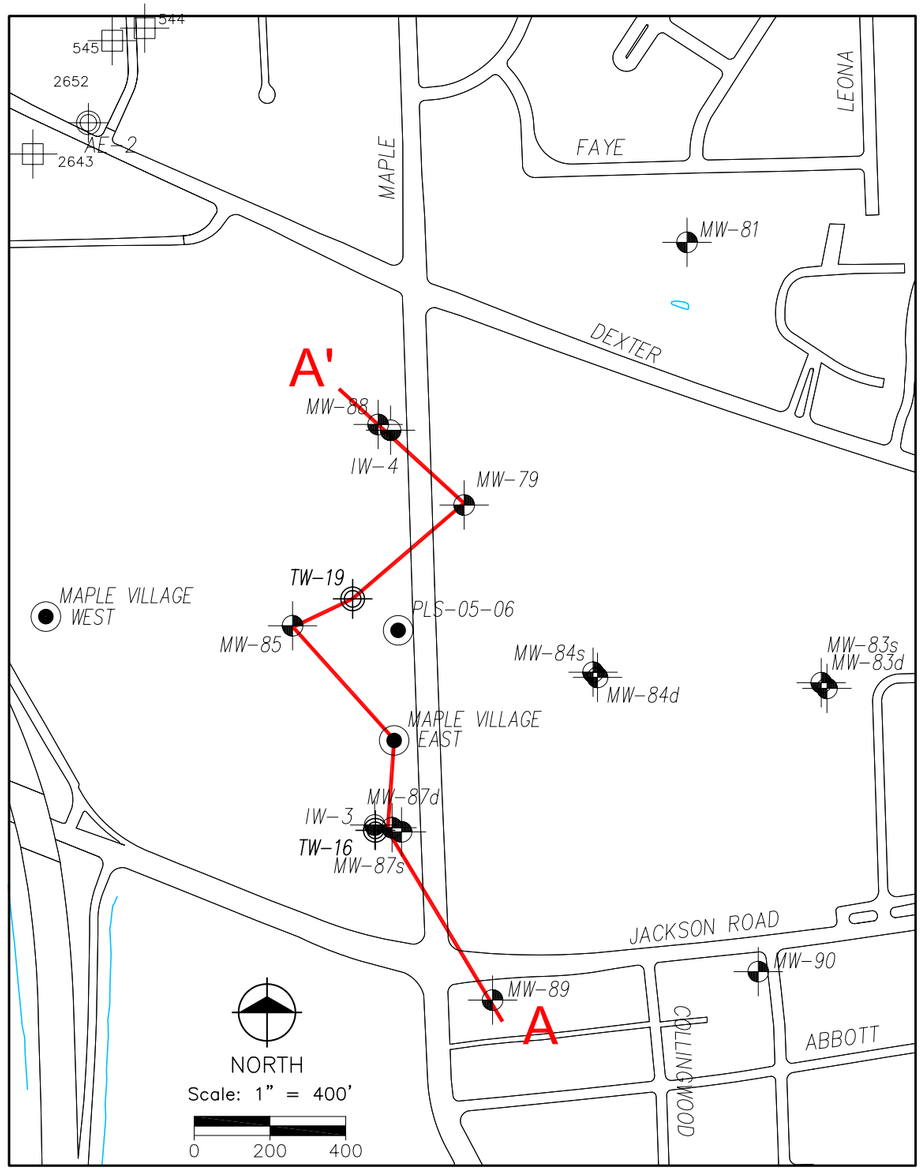
Well Name	Date Installed	TOC Elevation (ft amsl)	Ground Elevation (ft amsl)	Depth from TOC to Top of Screen (ft)	Depth from TOC to bottom of screen (ft)	Screen Length (ft)	Aquifer Thickness* (ft)	Depth from Top of Aquifer to Top of Screen (ft)	X COORD	Y COORD
MW-72d	11/28/2001	942.52	943	190	200	10	33	4	13280561	285943
MW-72s	12/18/2002	942.95	943	118.5	124	5	60		13280451	285914
MW-79	7/16/2002	906.78	907.5	127	131	5	41 + 29	21	13282106	286212
MW-81	7/31/2002	920.63	921	153	158	5			13282695	286905
MW-84d	12/31/2002	905.47	906	235	240	5			13282430	285757
MW-84s	1/3/2003	905.52	906	108.9	114	5			13282419	285770
MW-85	2/20/2003	917.64	918	158	163	5	57	22	13281625	285893
MW-87d	4/22/2003	927.34	928	135	140	5	35	27	13281894	285353
MW-87s	8/18/2003	927.69	928	80	85	5	42	21	13281894	285353
MW-88	4/30/2003	920.74	921	145	150	5	61 + 19	48	13281851	286424
MW-89	5/6/2003	943.44	944	140	145	5	64	55	13282153	284905
MW-90	5/21/2003	951.72	952	125	130	5			13282855	284980
TW-16	8/15/2003	927.50	928	121	141	20	74	54	13281844	285353
TW-19	12/5/2005	911.80	913	168.8	198.8	30	97	54	13281784	285964

* At some locations, Unit E appears to be divided.

Figure 3 - Combined Hydrographs with Barometric Pressure
Pall Life Sciences, Inc.
TW-19 Aquifer Test







LEGEND

SAND
CLAY
SILT
DIAMICTON
GRAVEL
SHALE
WELL
STATIC WATER LEVEL
SCREENED INTERVAL

67 1,4-DIOXANE CONCENTRATION (ppb)
(Samples Collected By Similprobe During Installation)

131 1,4-DIOXANE CONCENTRATION (ppb)

CROSS SECTION A-A'

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Engineers • Scientists • Architects
Kalamazoo, Michigan

PALL LIFE SCIENCES
SCIO TWP., WASHTENAW COUNTY, MICHIGAN
TW-19 AQUIFER TEST REPORT

PROJECT NO.
F96502
FIGURE NO.
2

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M:\CUSTOM\ACAD2002\SYMBOLS\B18X24.DWG
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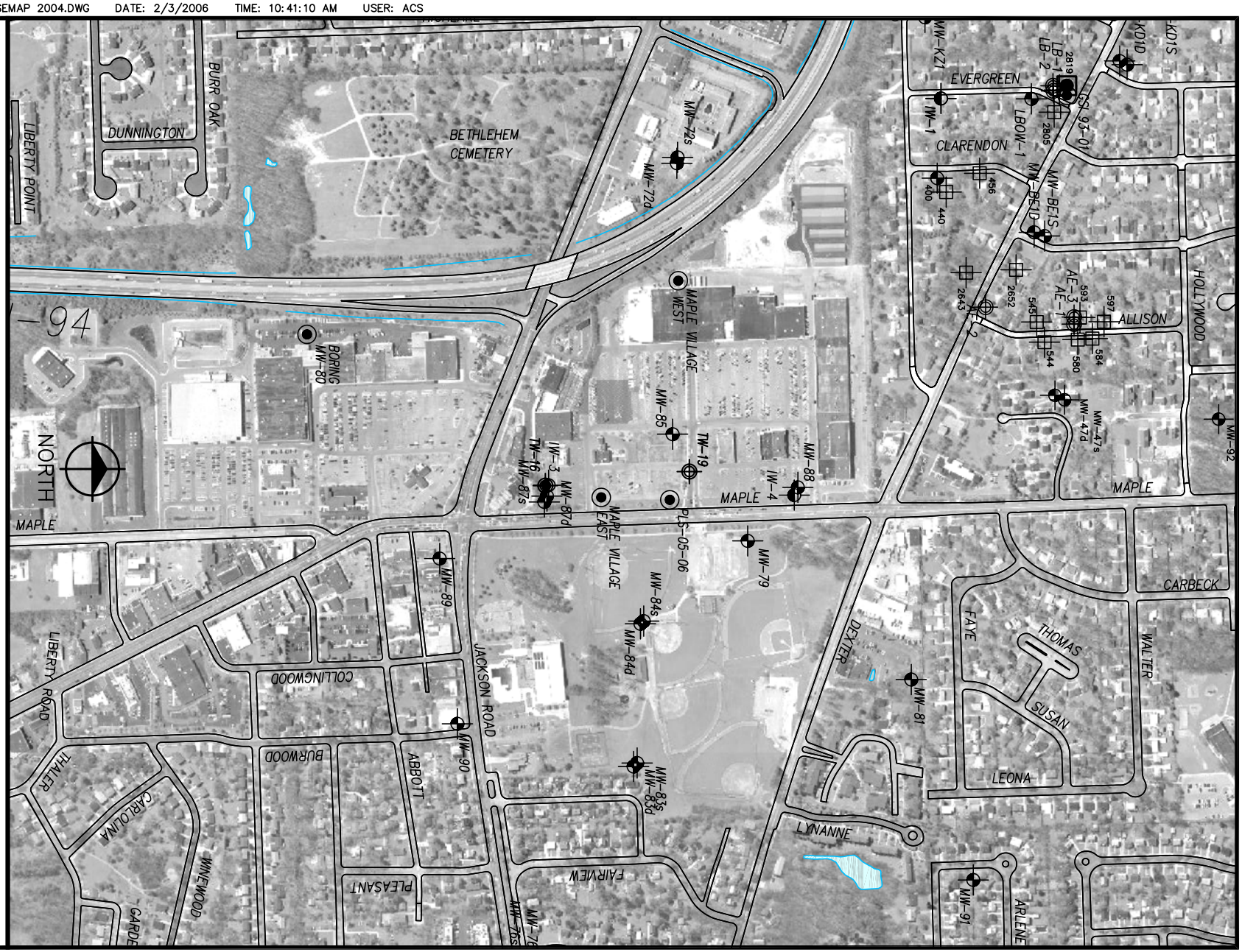

PALL LIFE SCIENCES
SCIO TWP., WASHTENAW COUNTY, MICHIGAN

TW-19 AQUIFER TEST REPORT

PROJECT NO. F96502
FIGURE NO. 1

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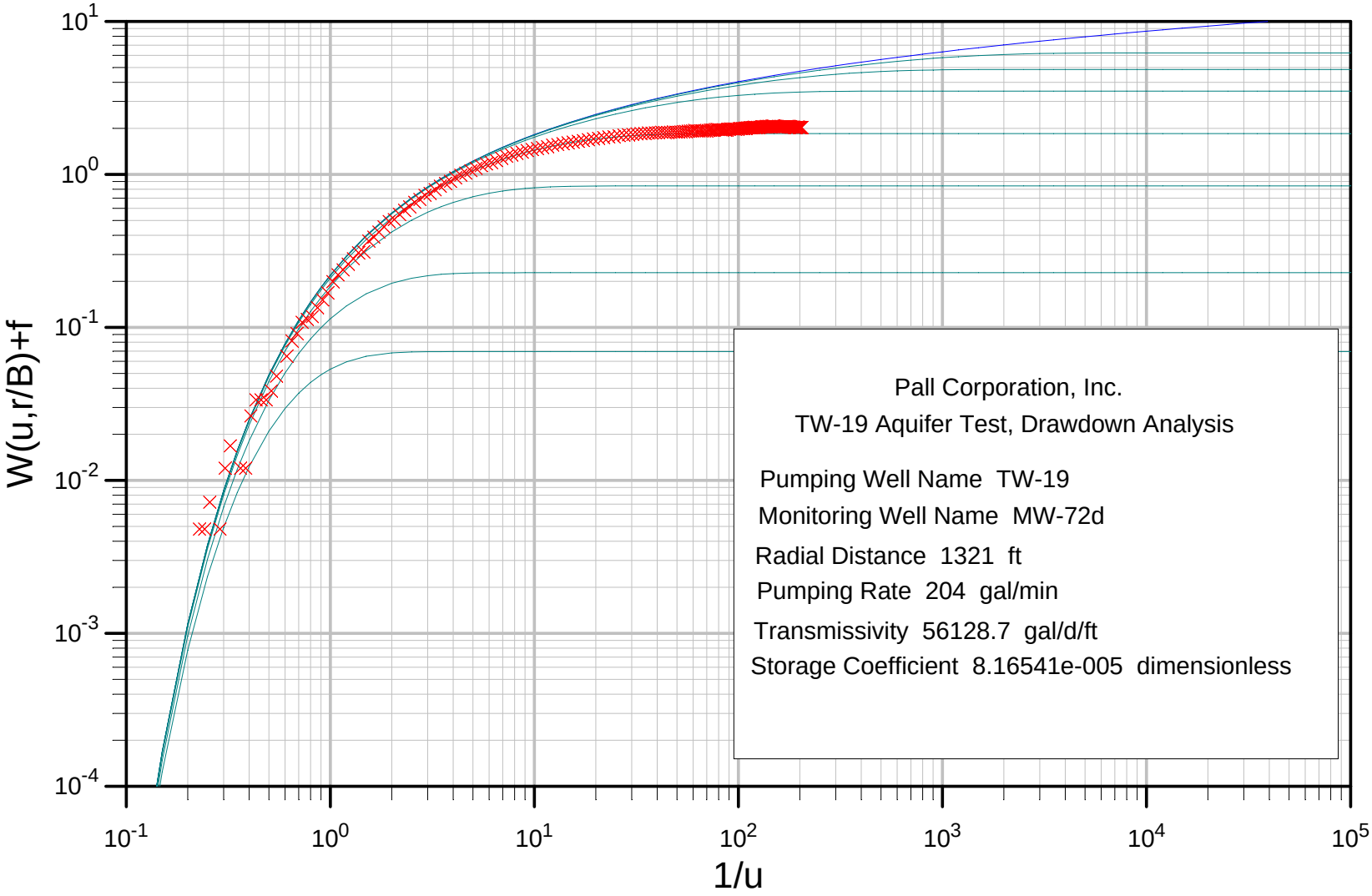
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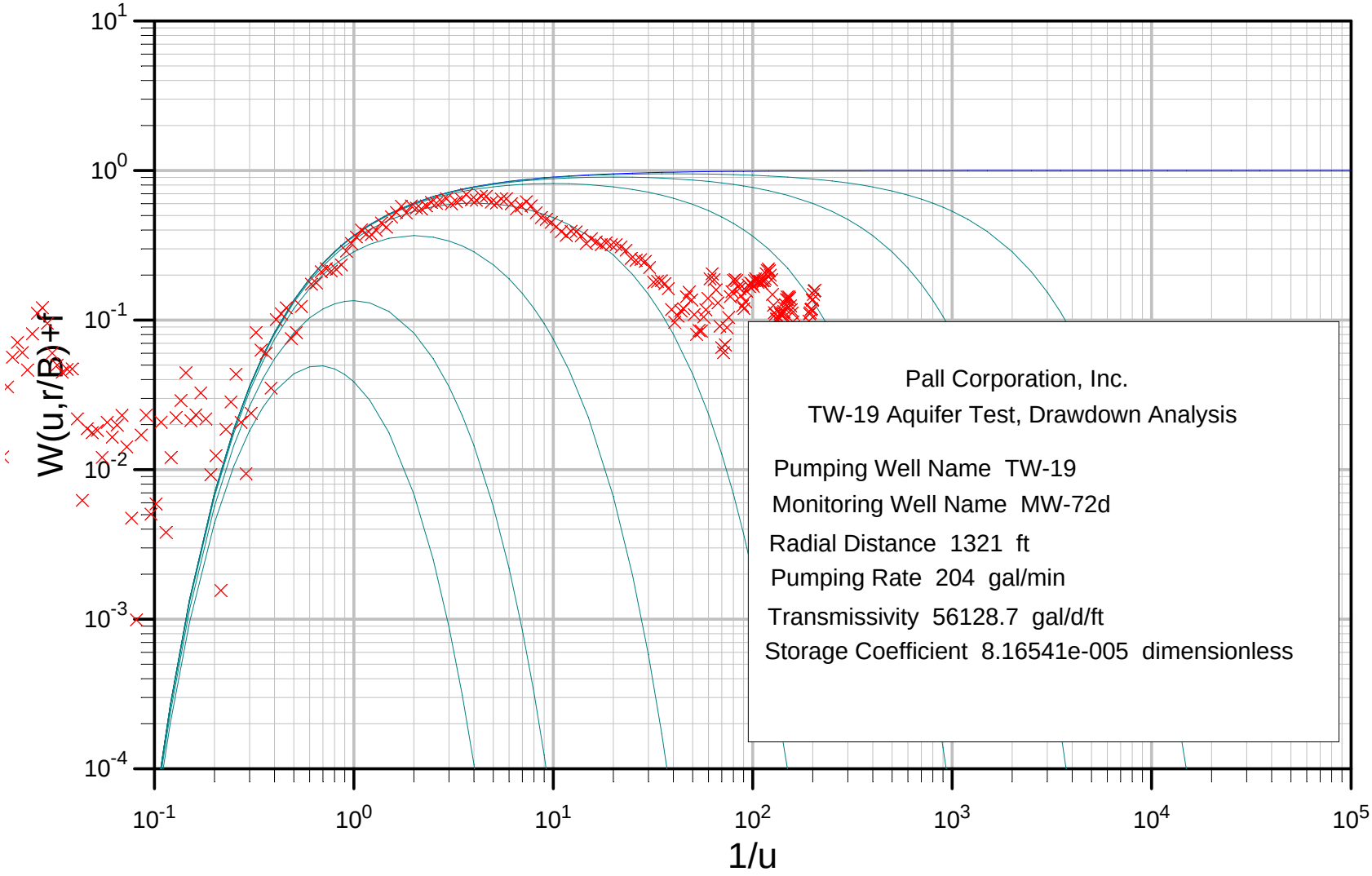
Pall Corporation, Inc.
TW-19 Aquifer Test, Drawdown Analysis
Pumping Well Name TW-19
Monitoring Well Name MW-72d
Radial Distance 1321 ft
Pumping Rate 204 gal/min
Transmissivity 56128.7 gal/d/ft
Storage Coefficient 8.16541e-005 dimensionless

Hantush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1/u
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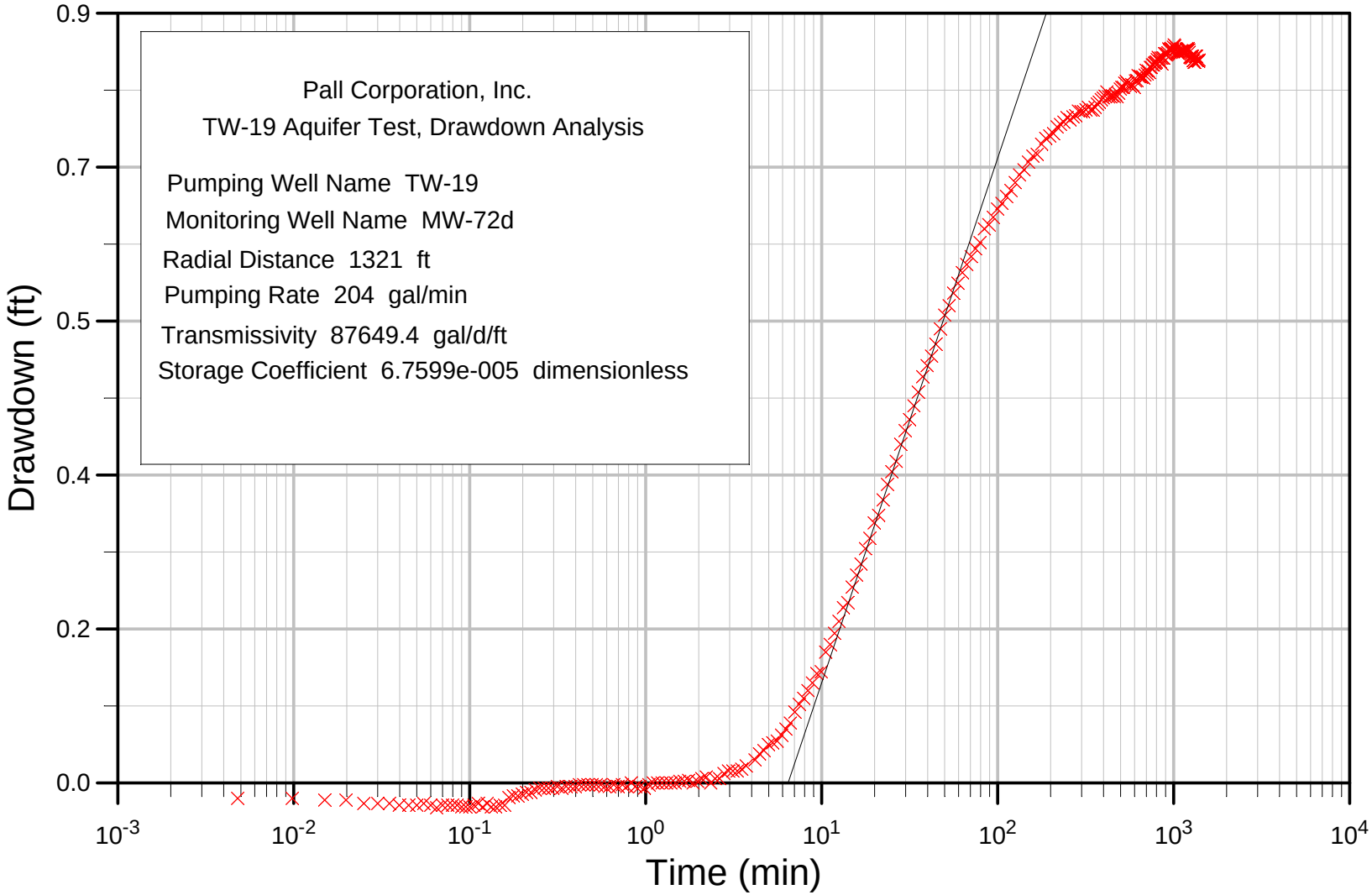
Cooper and Jacob



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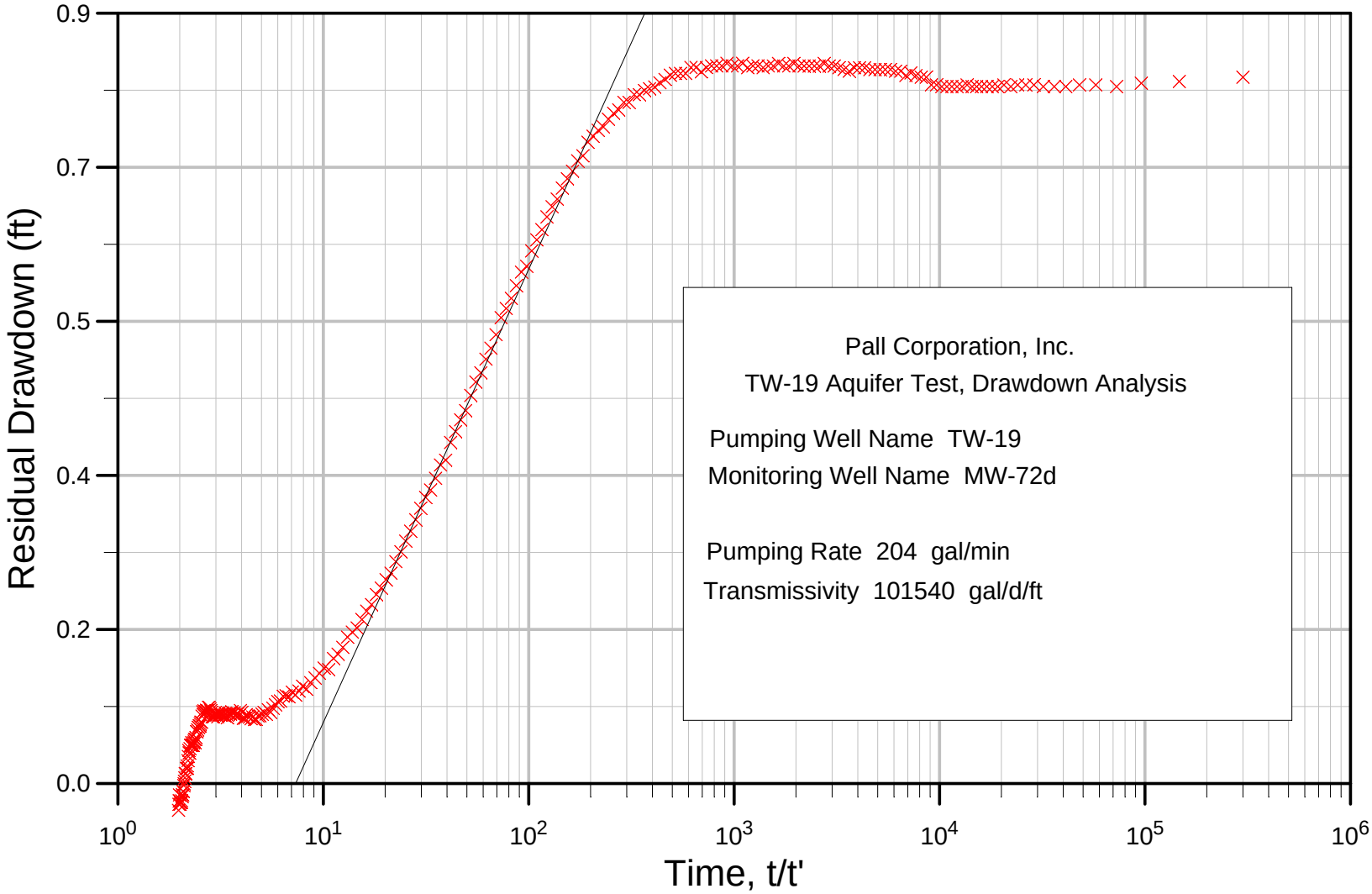

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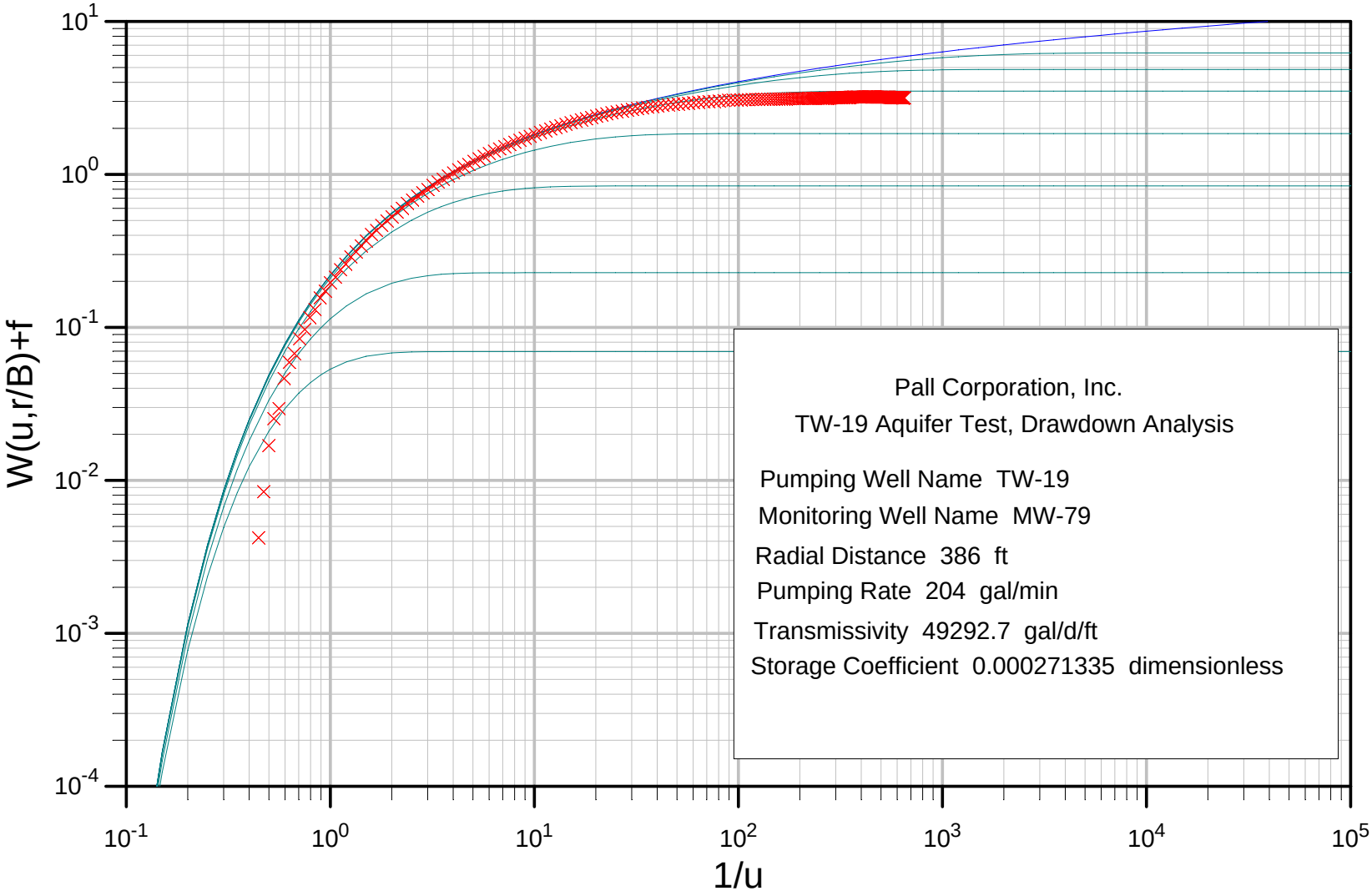
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Pall Corporation, Inc.
TW-19 Aquifer Test, Drawdown Analysis
Pumping Well Name TW-19
Monitoring Well Name MW-79
Radial Distance 386 ft
Pumping Rate 204 gal/min
Transmissivity 49292.7 gal/d/ft
Storage Coefficient 0.000271335 dimensionless

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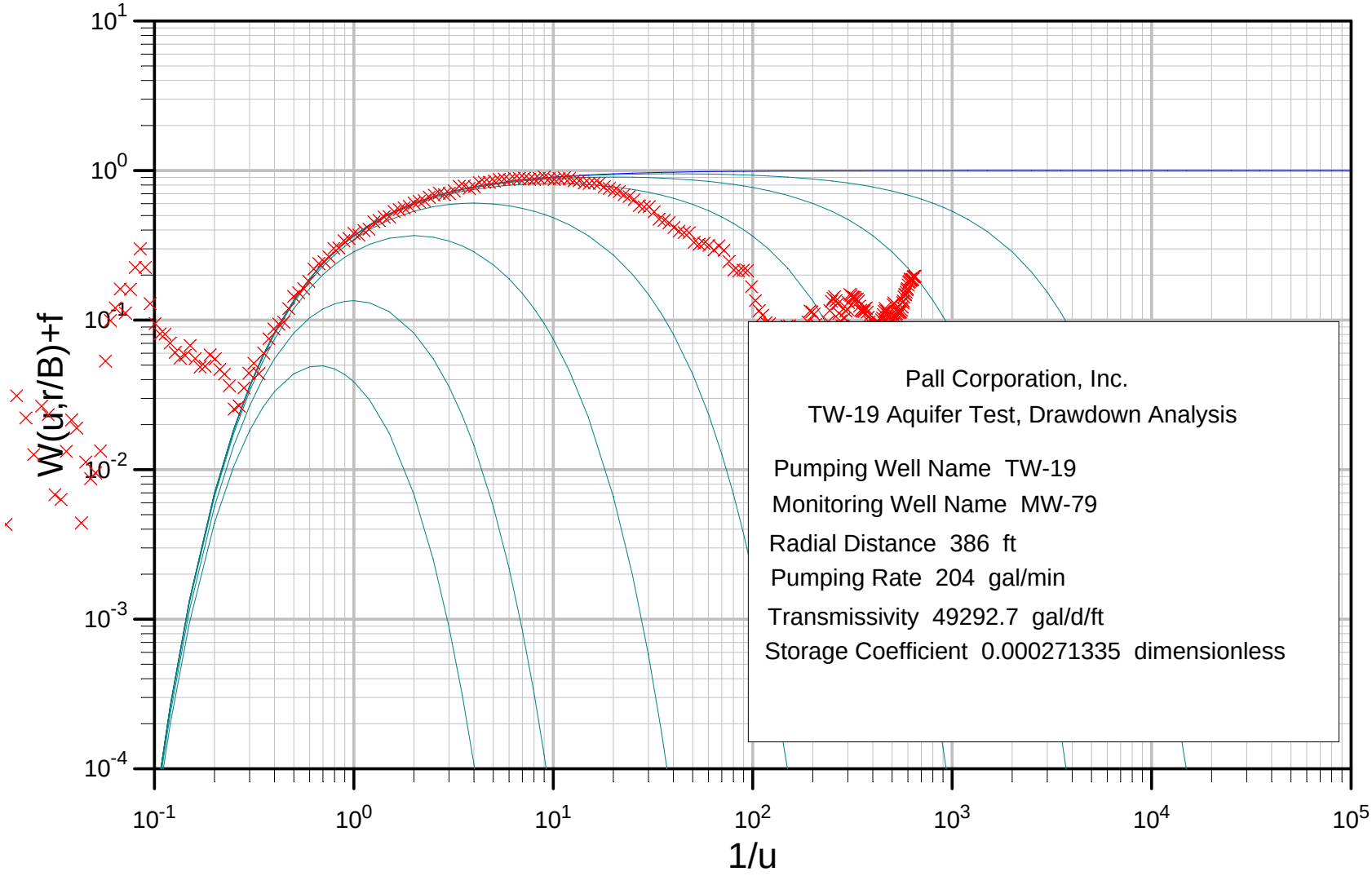
W(u,r/B)+f
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Pall Corporation, Inc.
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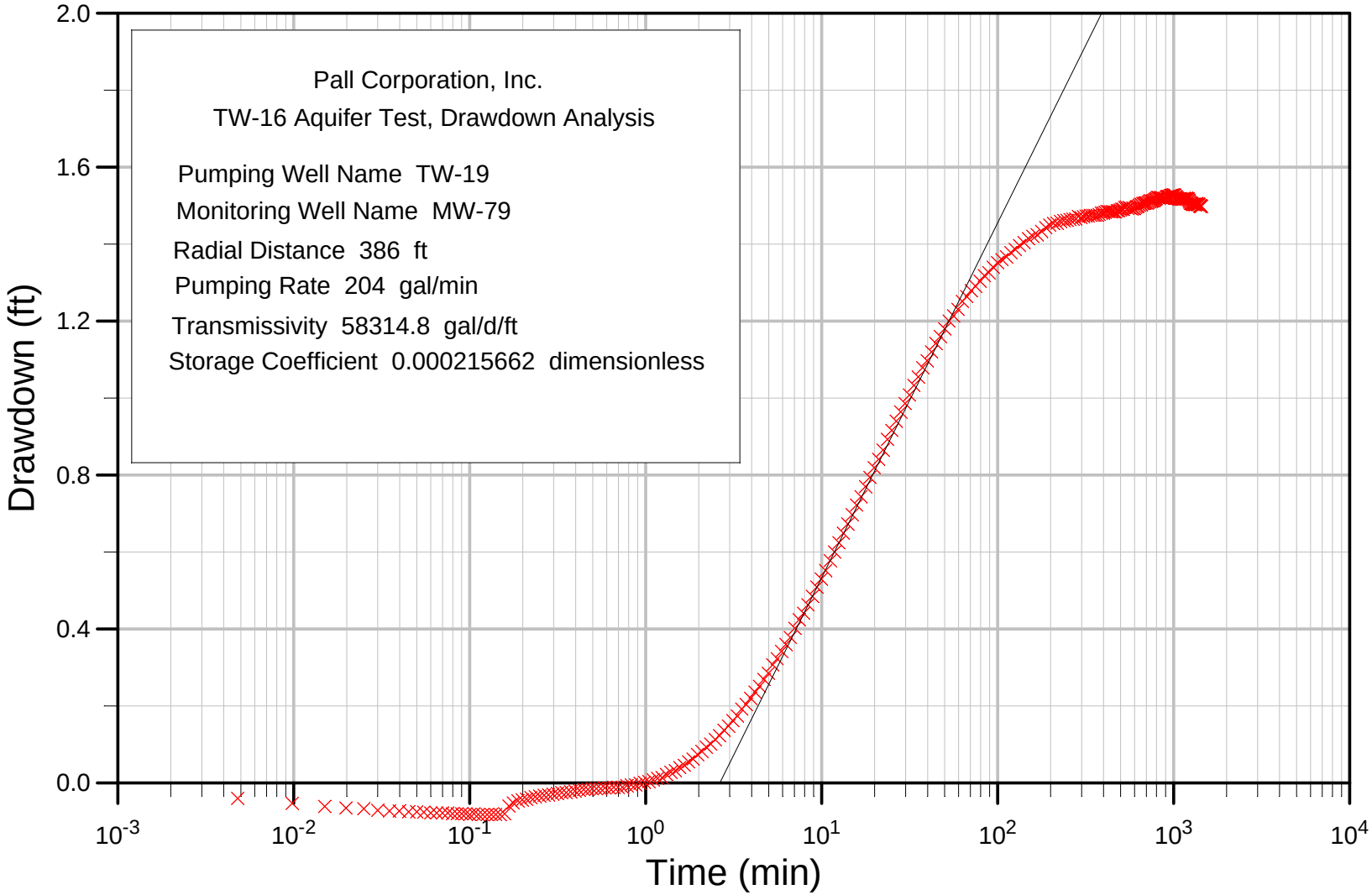
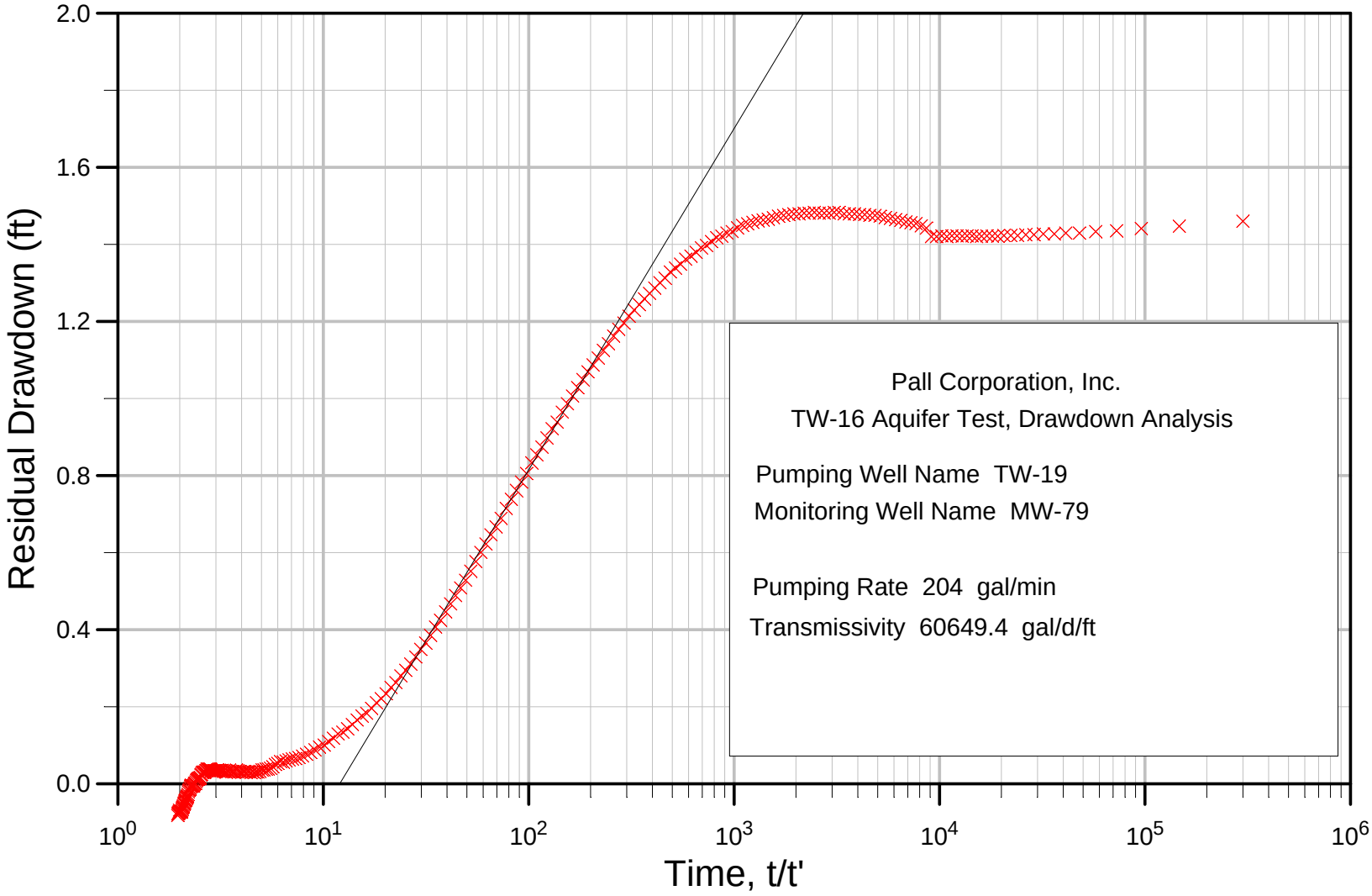
Monitoring Well Name MW-79
Radial Distance 386 ft
Pumping Rate 204 gal/min
Transmissivity 49292.7 gal/d/ft
Storage Coefficient 0.000271335 dimensionless

Cooper and Jacob



Theis Recovery



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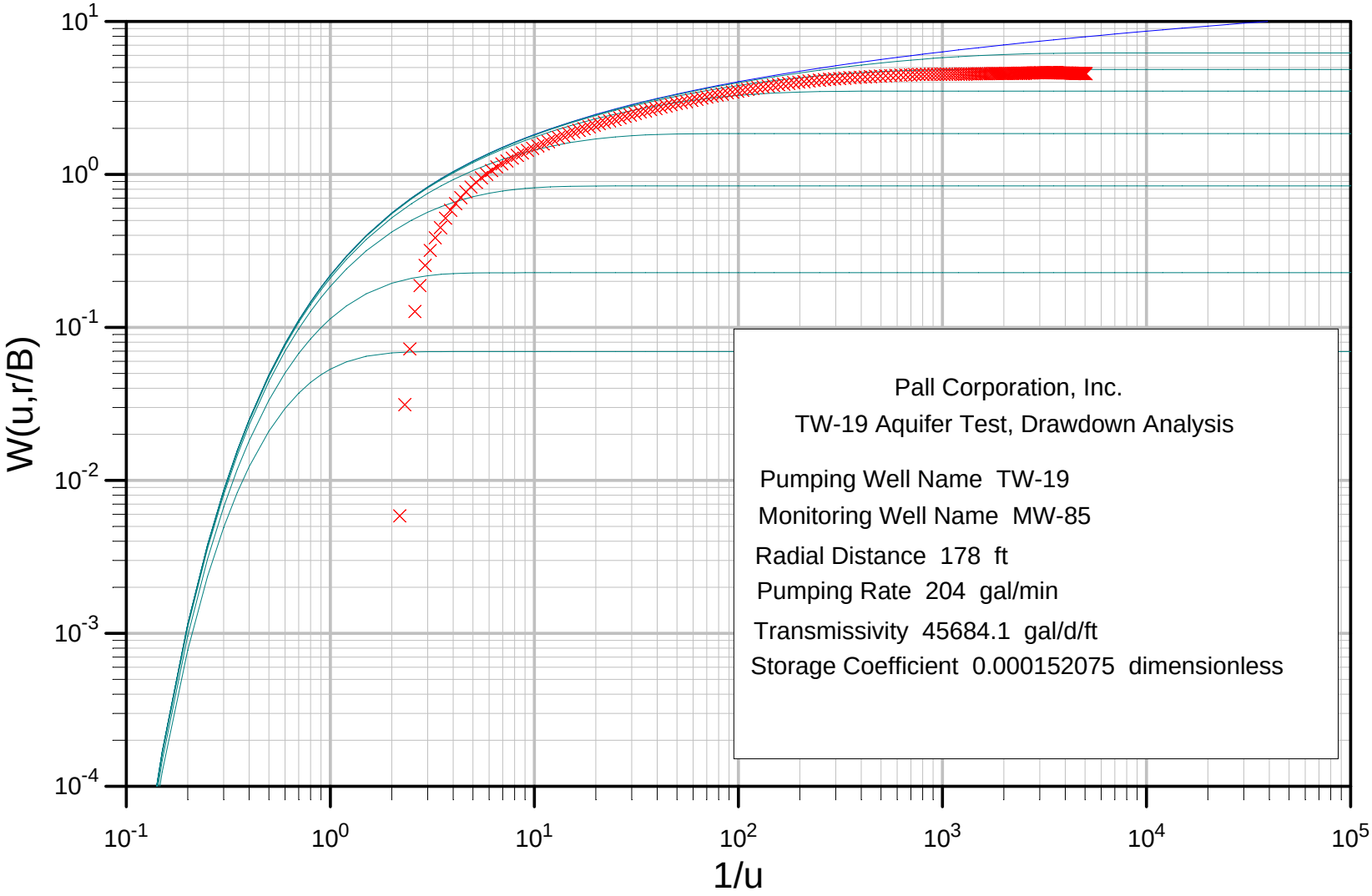
W(u,r/B)
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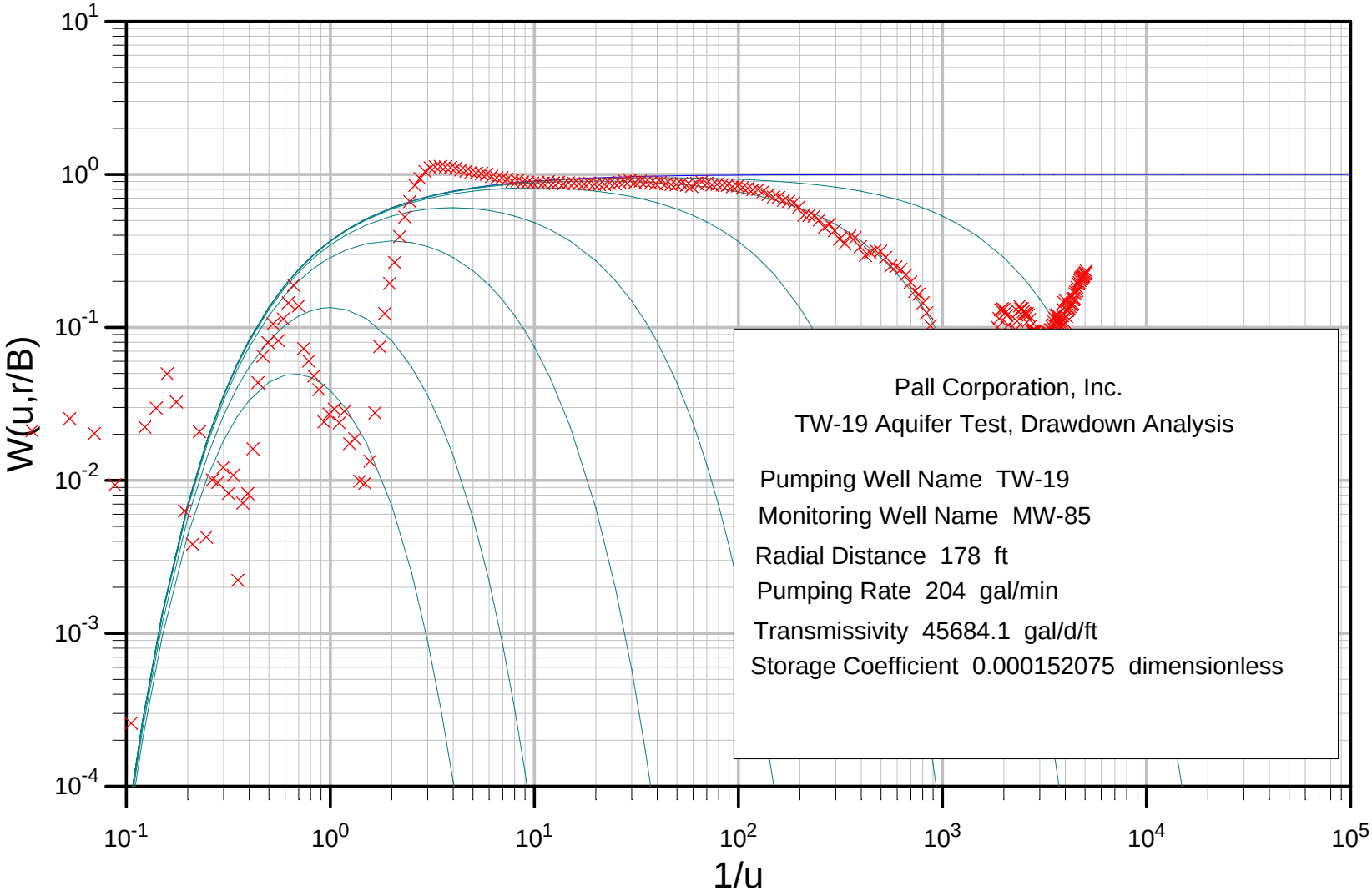
Pall Corporation, Inc.
TW-19 Aquifer Test, Drawdown Analysis
Pumping Well Name TW-19
Monitoring Well Name MW-85
Radial Distance 178 ft
Pumping Rate 204 gal/min
Transmissivity 45684.1 gal/d/ft
Storage Coefficient 0.000152075 dimensionless

Hantush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Pall Corporation, Inc.
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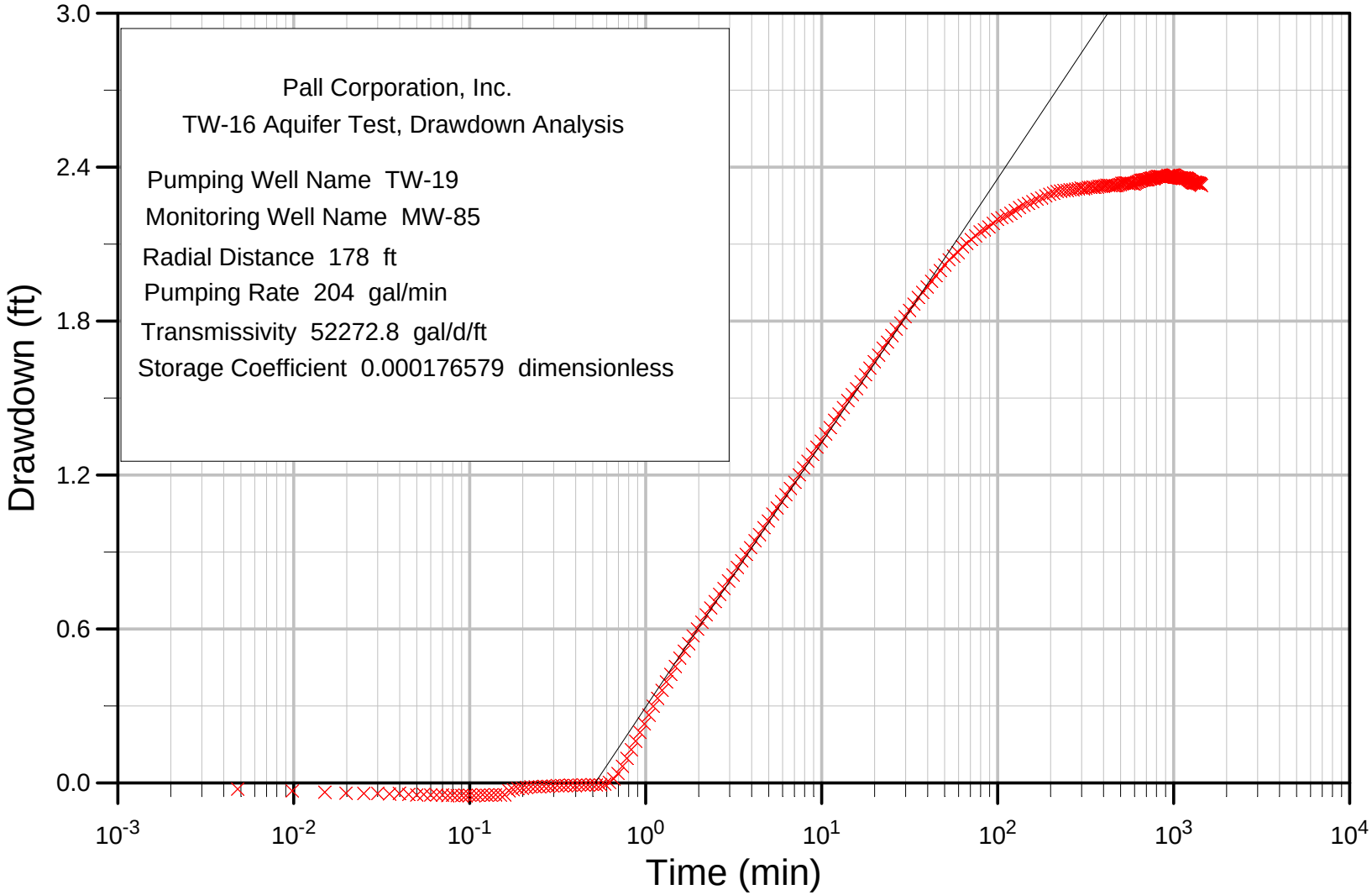
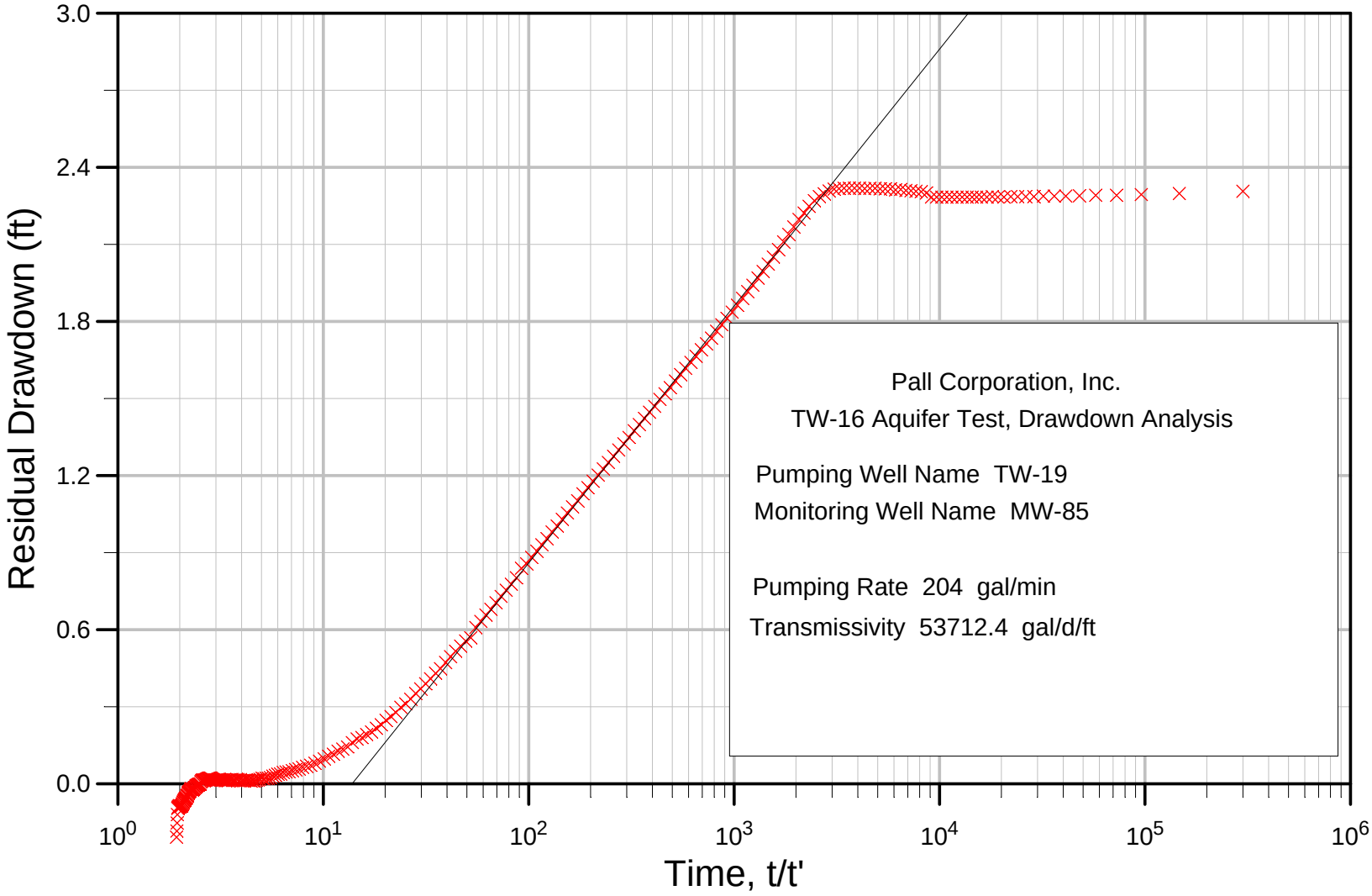
Pumping Well Name TW-19
Monitoring Well Name MW-85
Radial Distance 178 ft
Pumping Rate 204 gal/min
Transmissivity 45684.1 gal/d/ft
Storage Coefficient 0.000152075 dimensionless

Cooper and Jacob



Theis Recovery



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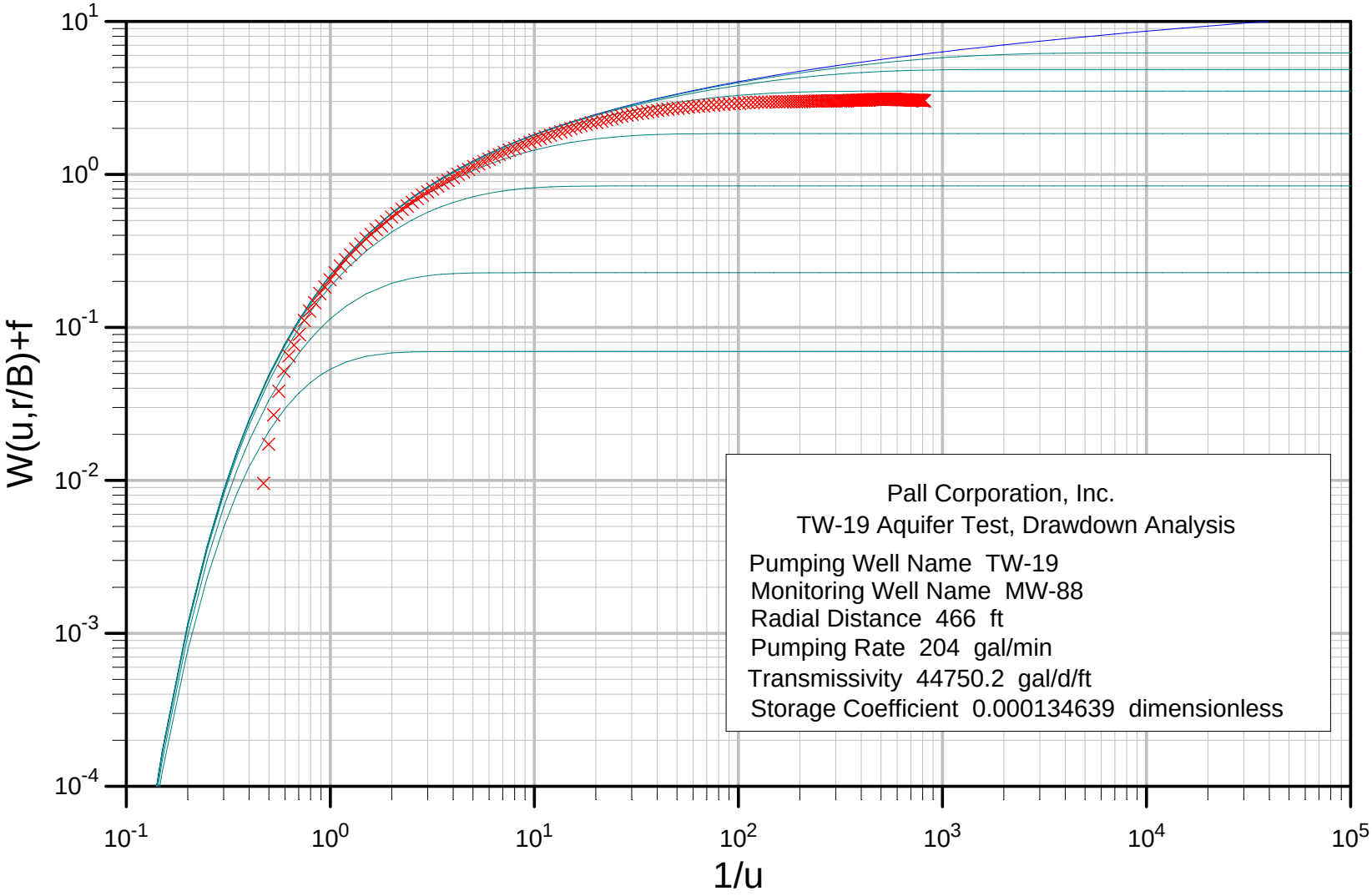
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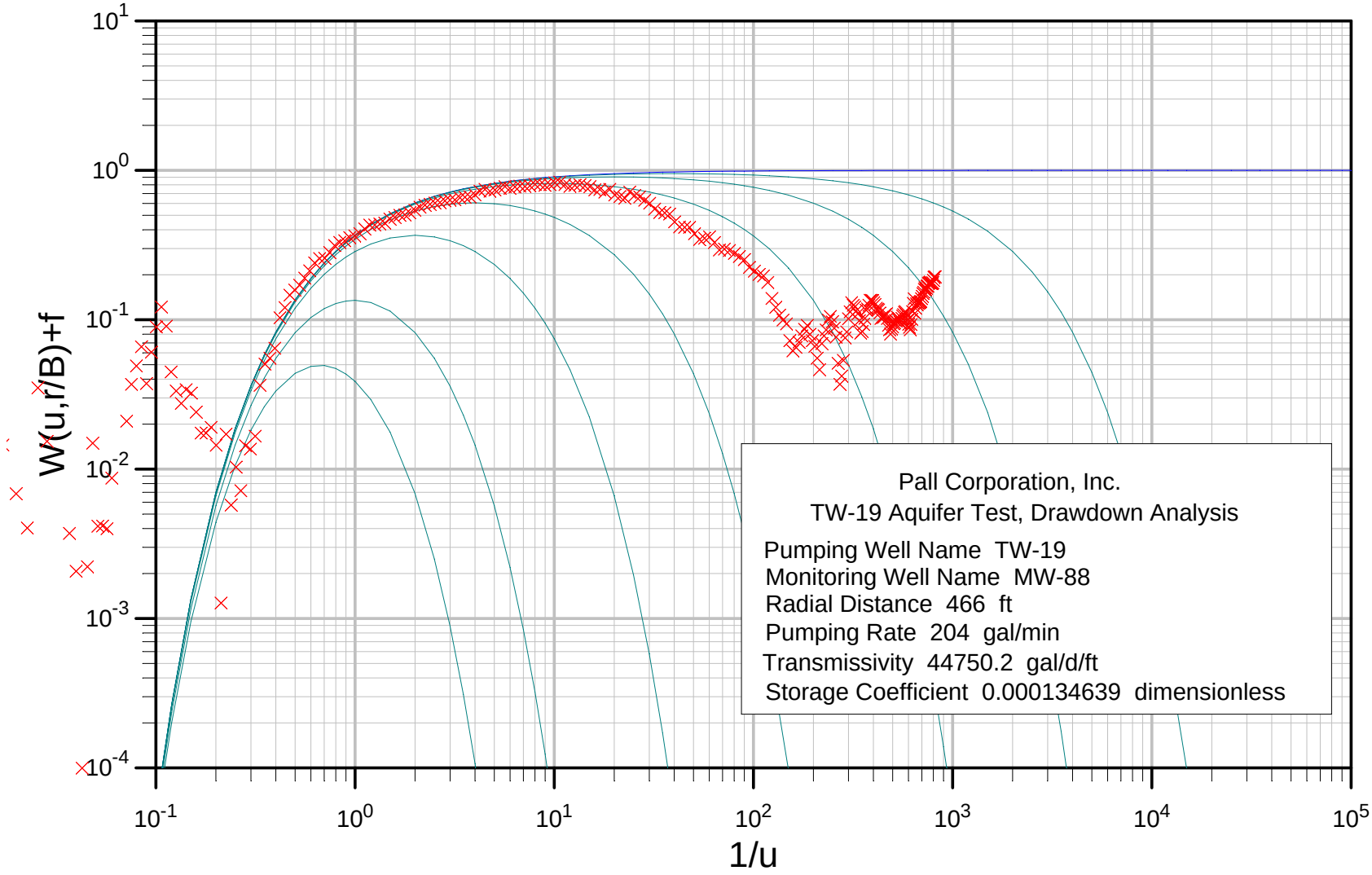
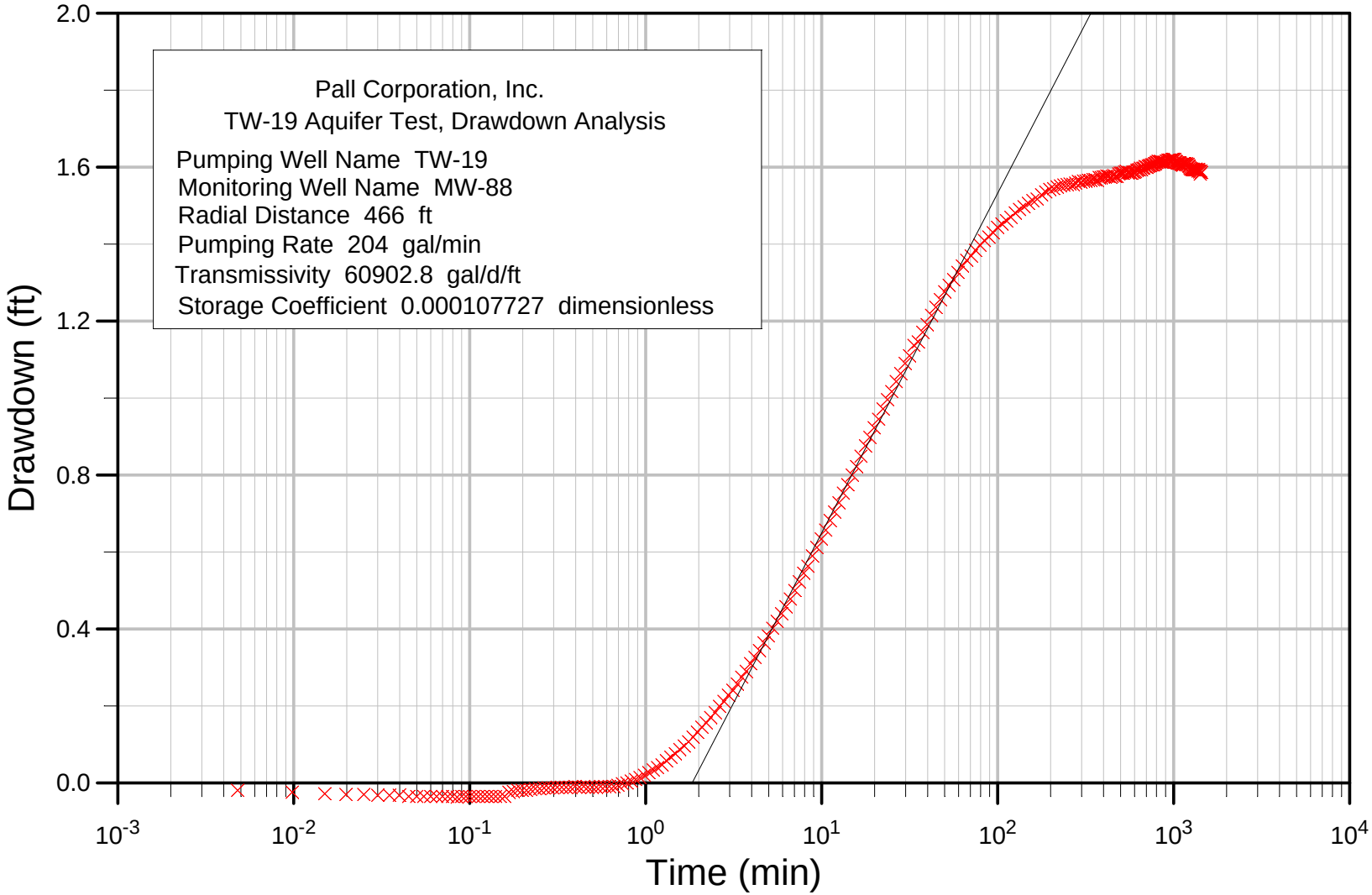
1/u
Pall Corporation, Inc.
TW-19 Aquifer Test, Drawdown Analysis
Pumping Well Name TW-19
Monitoring Well Name MW-88
Radial Distance 466 ft
Pumping Rate 204 gal/min
Transmissivity 44750.2 gal/d/ft
Storage Coefficient 0.000134639 dimensionless

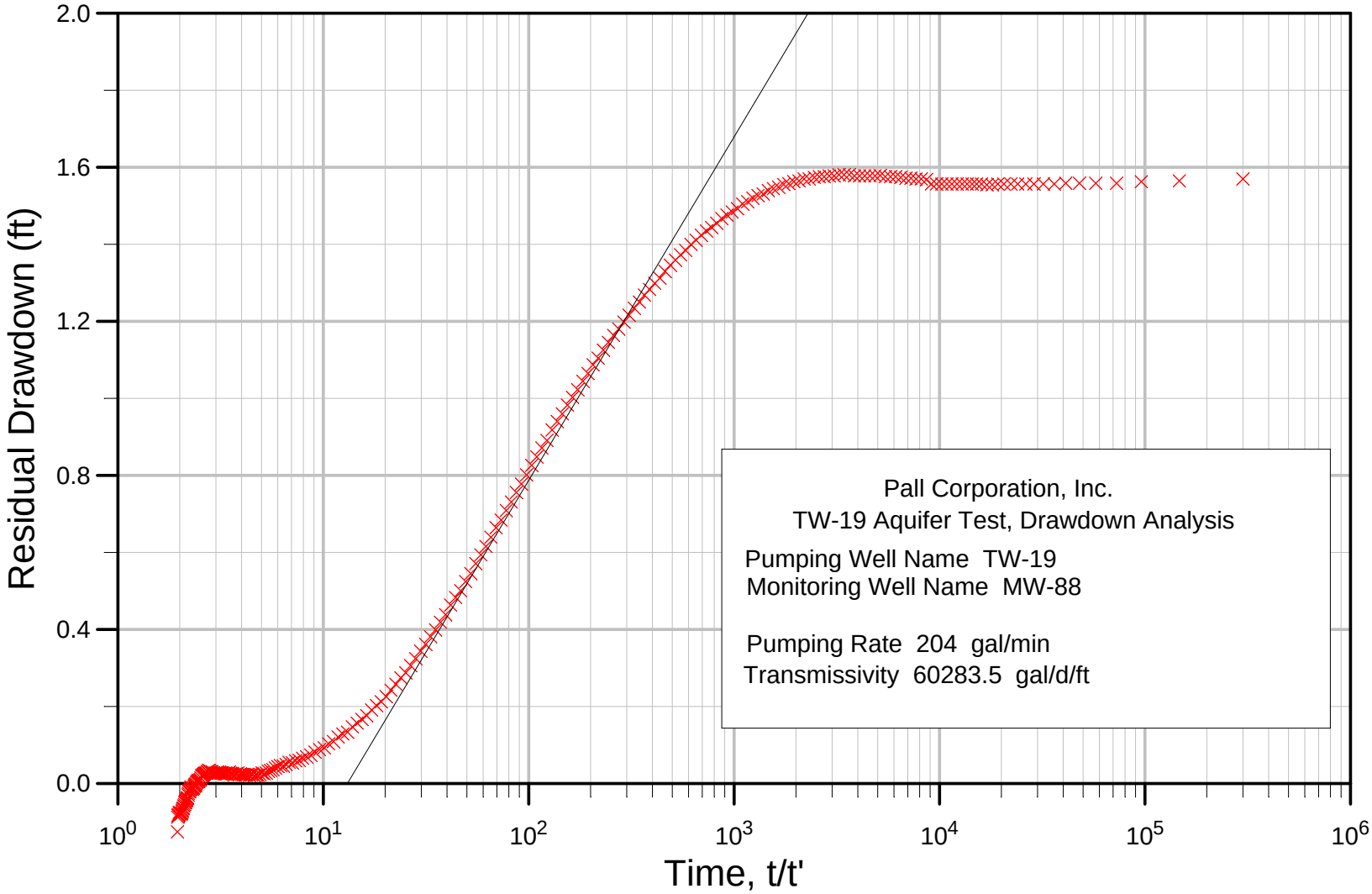
Hantush


W(u,r/B)+f
1/u
Pall Corporation, Inc.
TW-19 Aquifer Test, Drawdown Analysis
Pumping Well Name TW-19
Monitoring Well Name MW-88
Radial Distance 466 ft
Pumping Rate 204 gal/min
Transmissivity 44750.2 gal/d/ft
Storage Coefficient 0.000134639 dimensionless

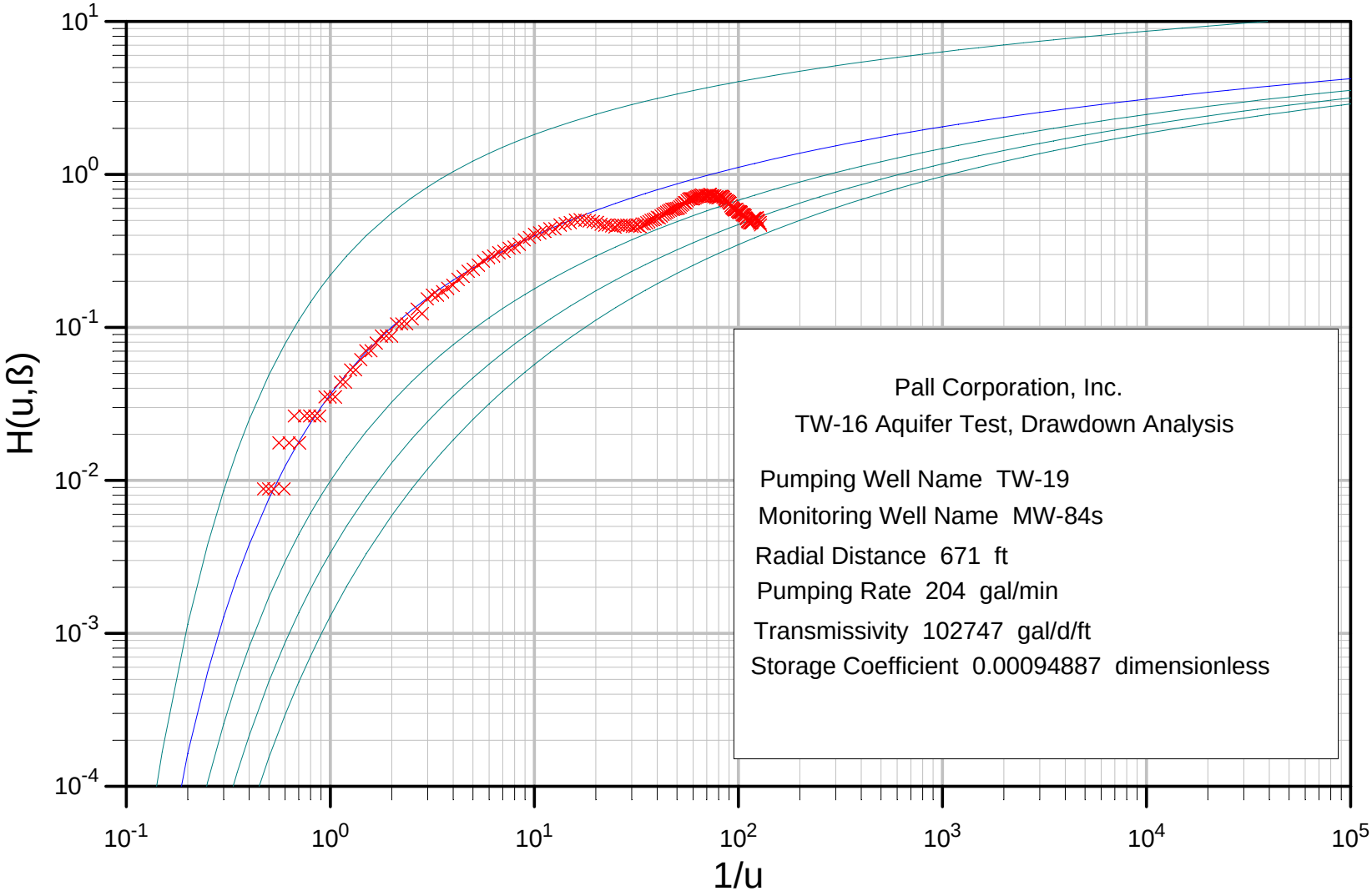
Cooper and Jacob



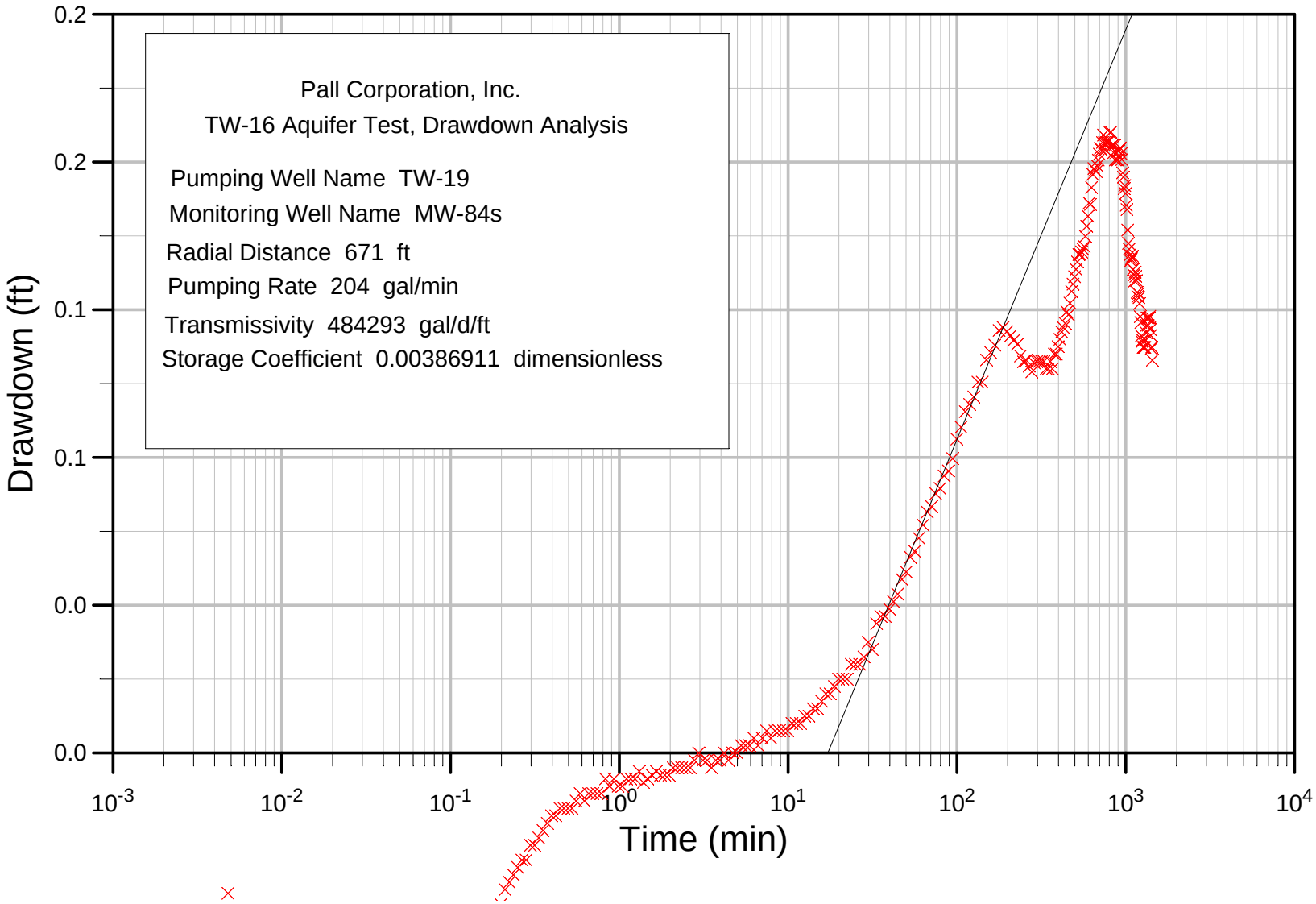
Theis Recovery



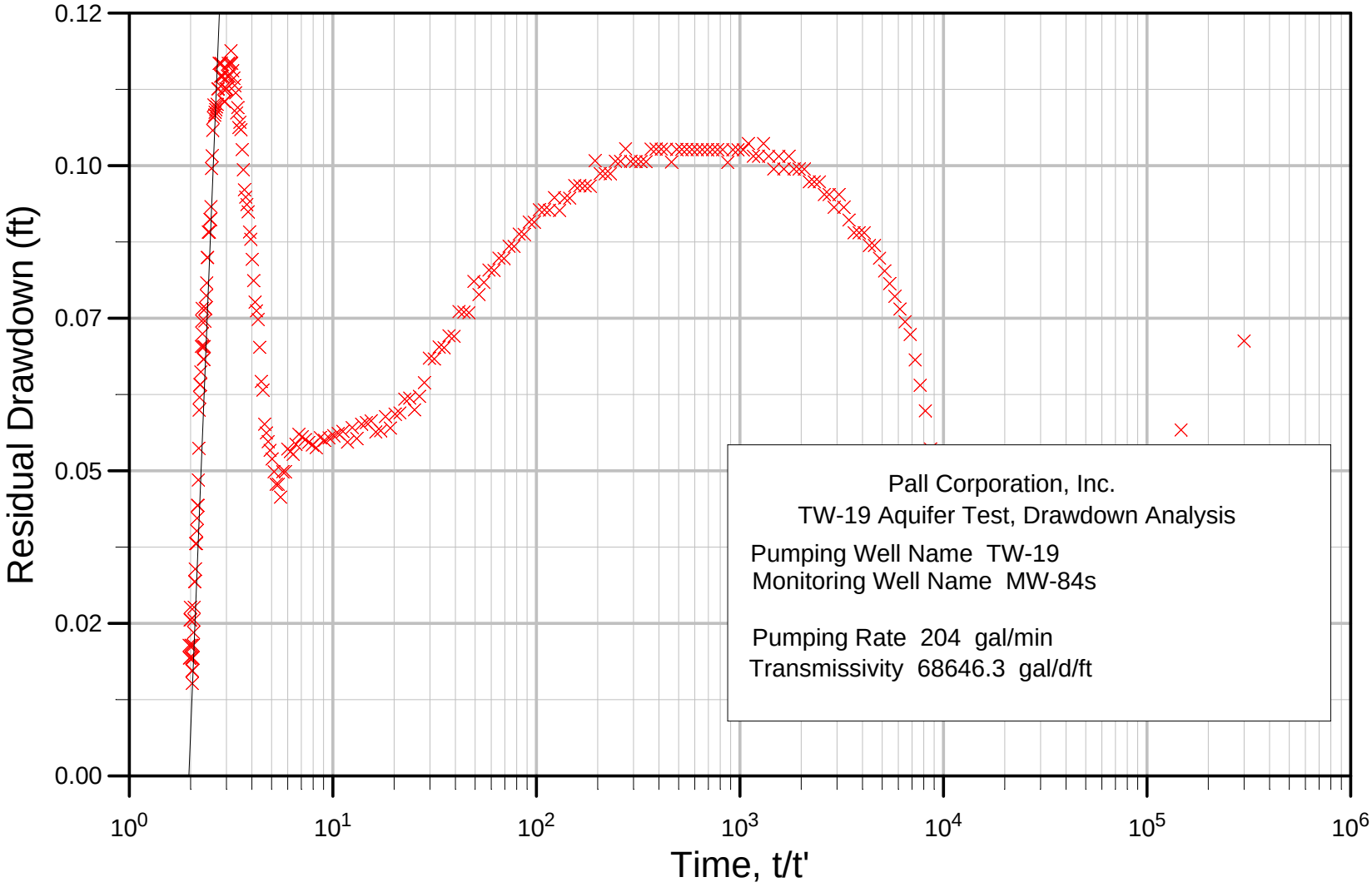
Hantush


H(u,ß)
1/u
Pall Corporation, Inc.
TW-16 Aquifer Test, Drawdown Analysis
Pumping Well Name TW-19
Monitoring Well Name MW-84s
Radial Distance 671 ft
Pumping Rate 204 gal/min
Transmissivity 102747 gal/d/ft
Storage Coefficient 0.00094887 dimensionless

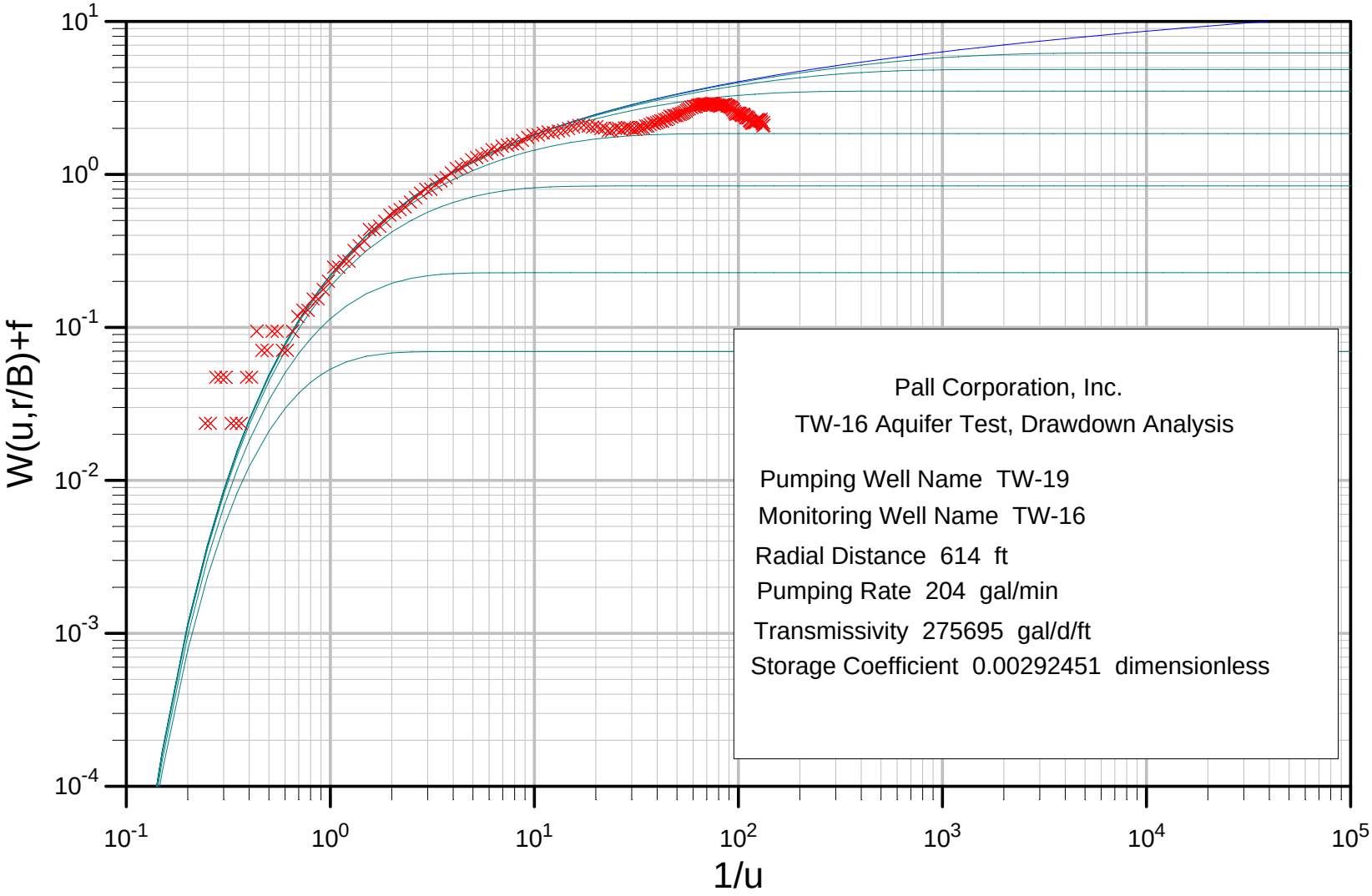
Cooper and Jacob



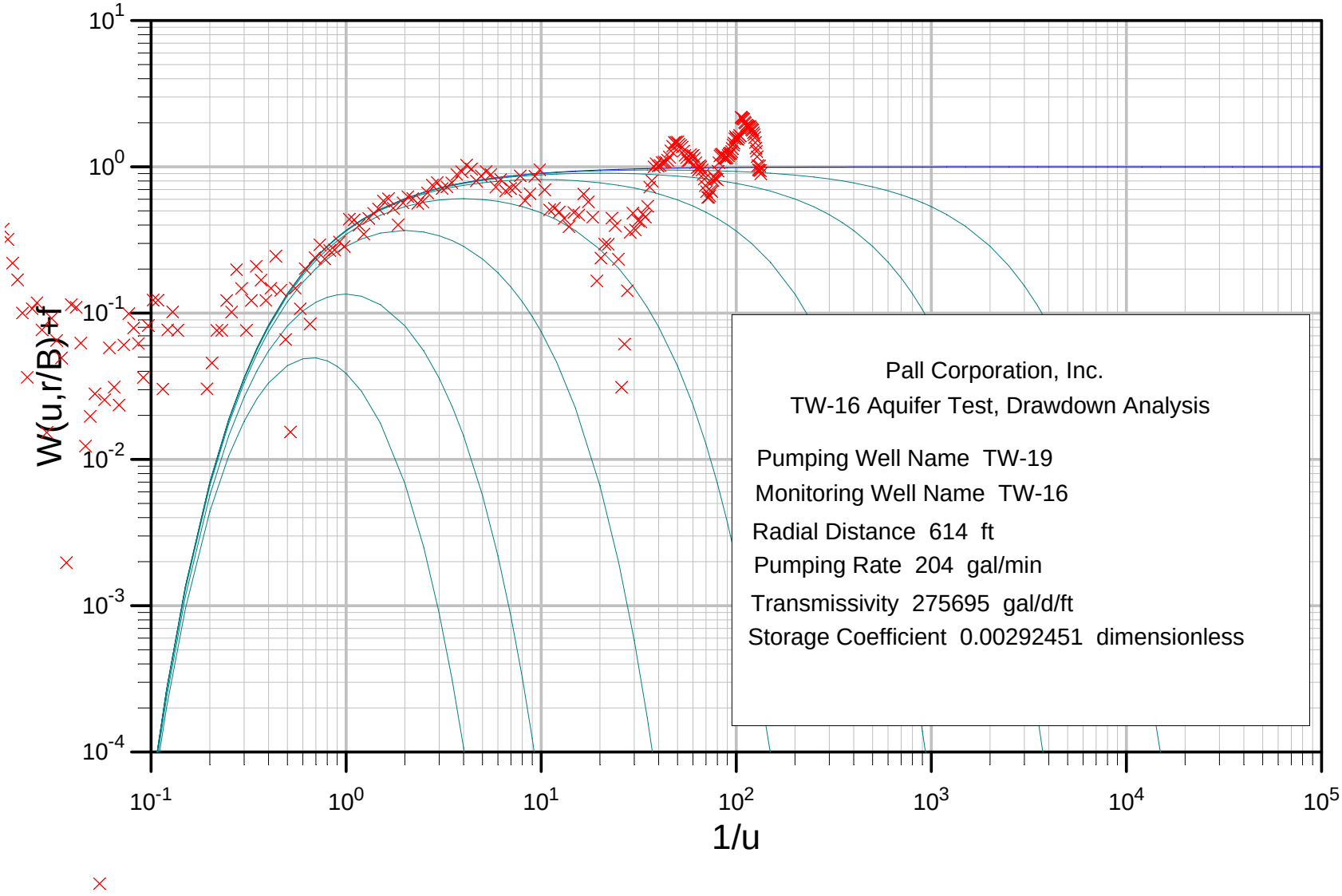
Theis Recovery



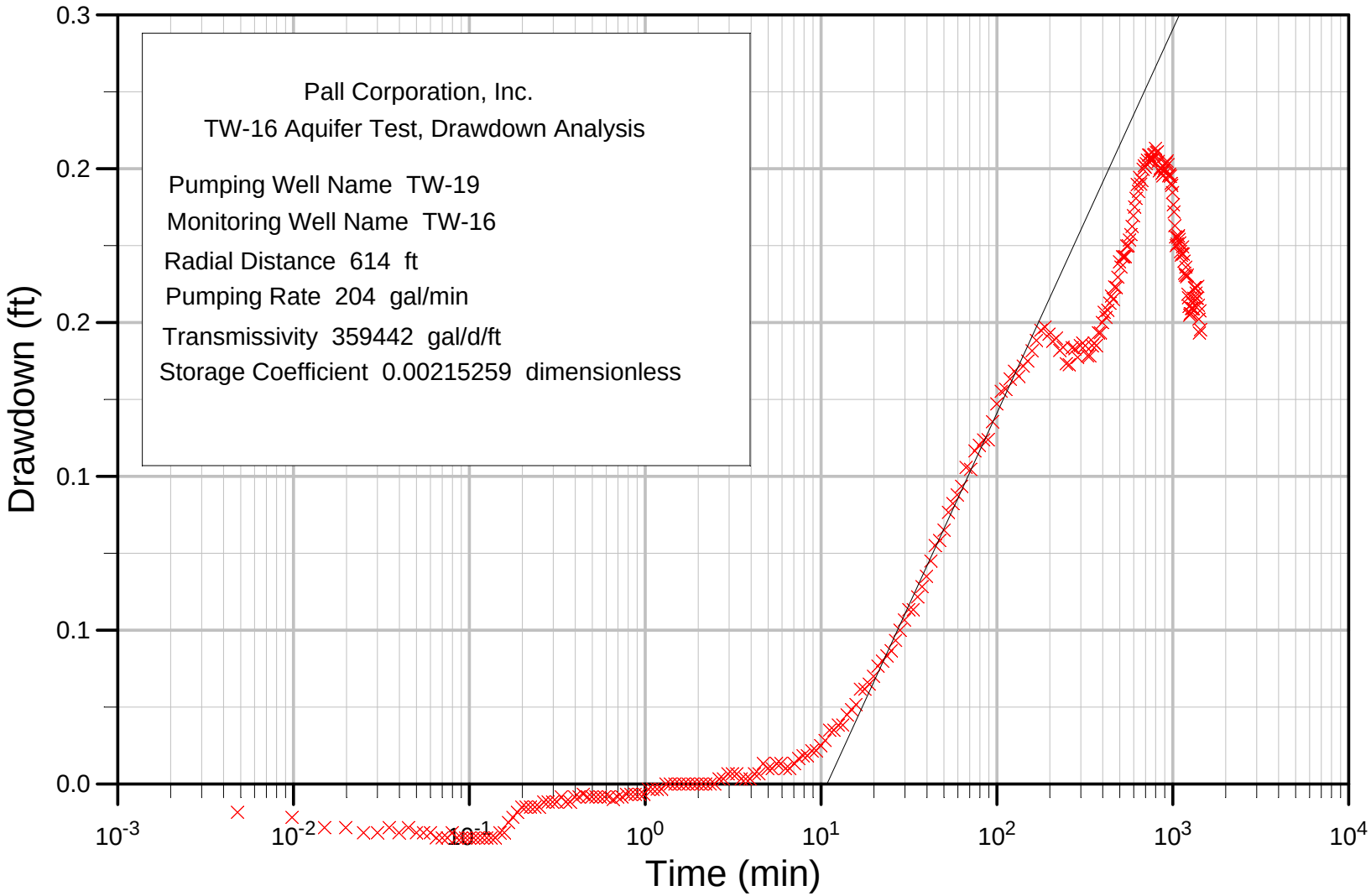
Hantush


W(u,r/B)+f
1/u
Pall Corporation, Inc.
TW-16 Aquifer Test, Drawdown Analysis
Pumping Well Name TW-19
Monitoring Well Name TW-16
Radial Distance 614 ft
Pumping Rate 204 gal/min
Transmissivity 275695 gal/d/ft
Storage Coefficient 0.00292451 dimensionless

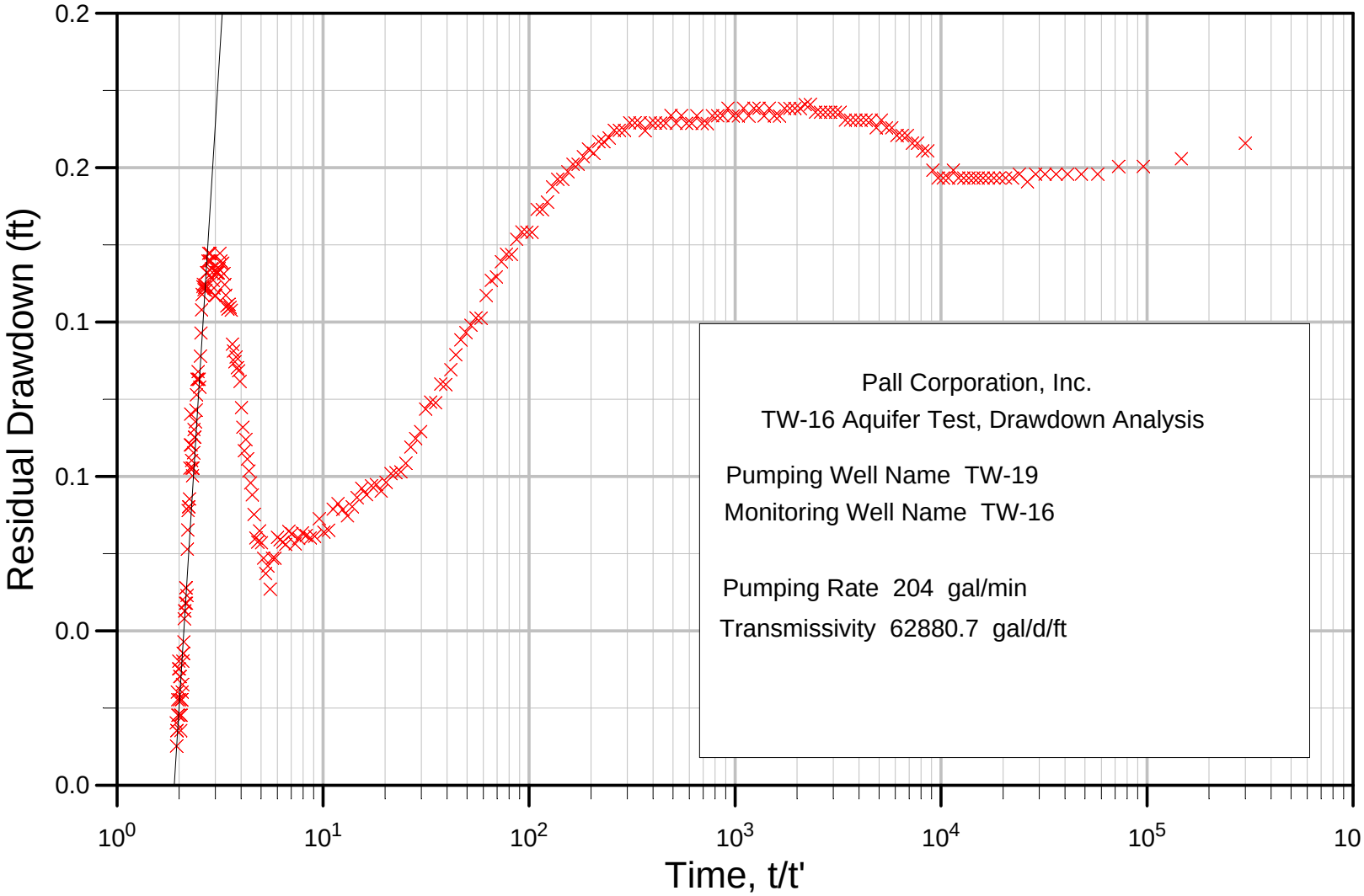
Hantush


W(u,r/B)+f
1/u
Pall Corporation, Inc.
TW-16 Aquifer Test, Drawdown Analysis
Pumping Well Name TW-19
Monitoring Well Name TW-16
Radial Distance 614 ft
Pumping Rate 204 gal/min
Transmissivity 275695 gal/d/ft
Storage Coefficient 0.00292451 dimensionless

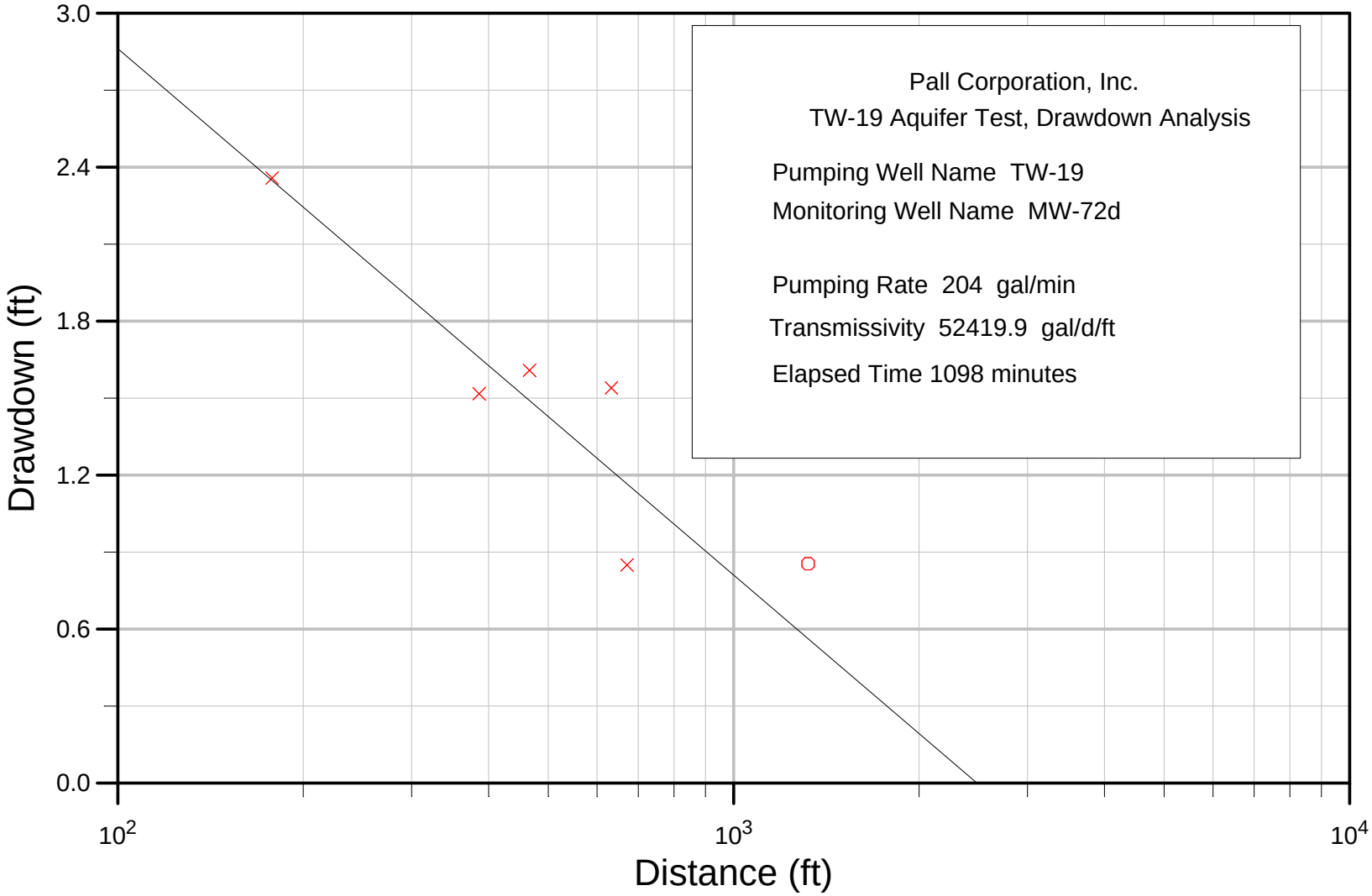
Cooper and Jacob

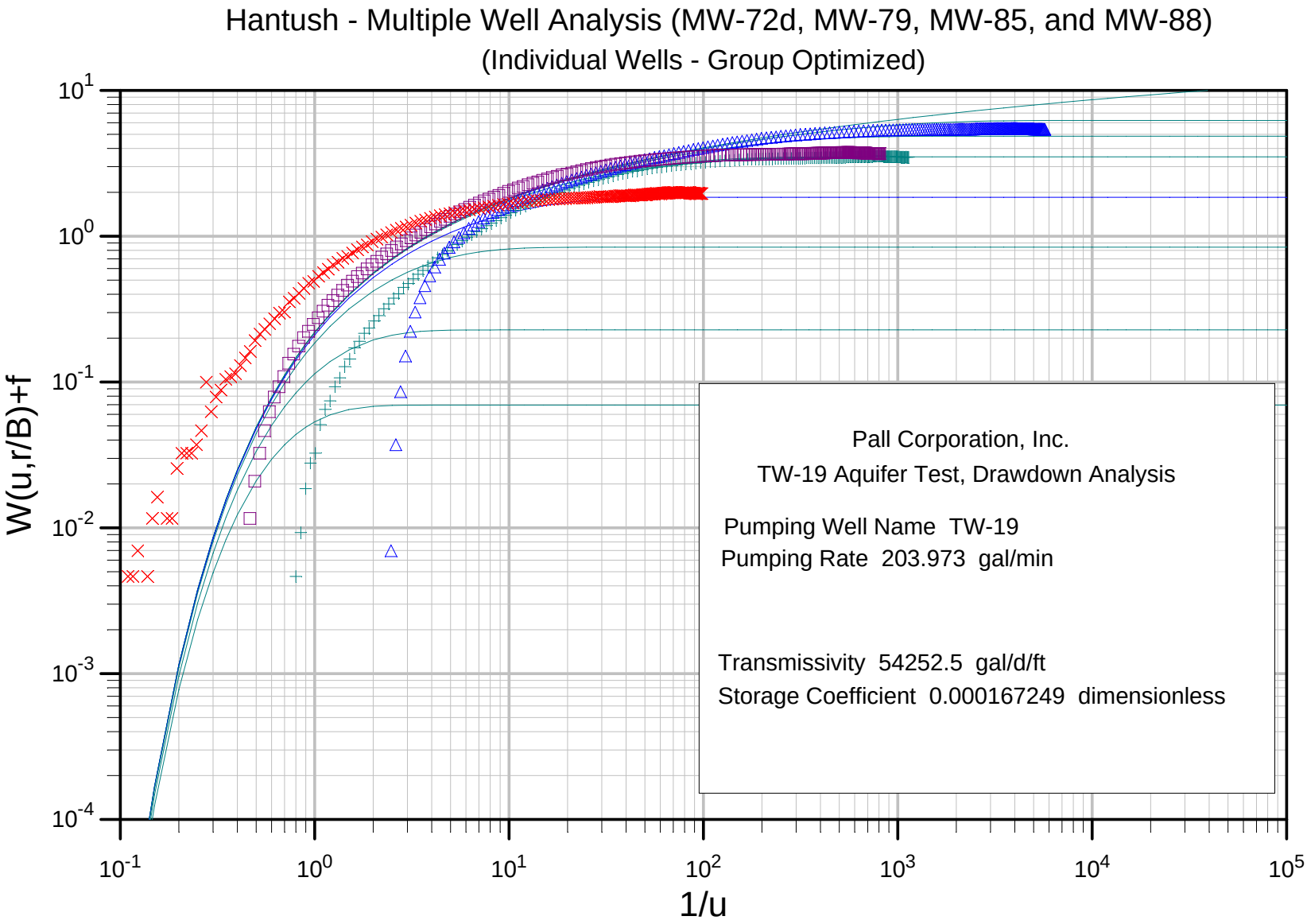


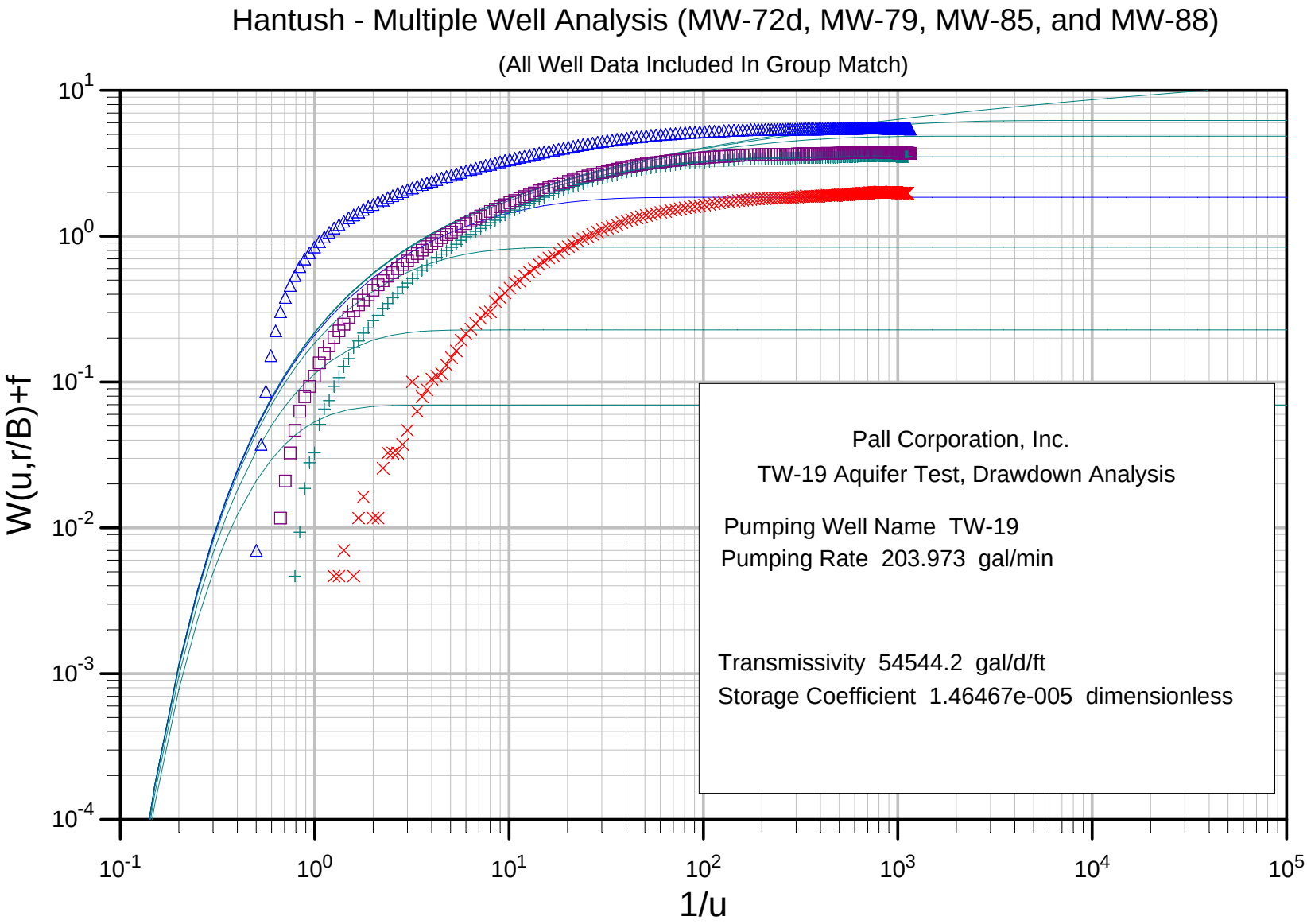
Theis Recovery

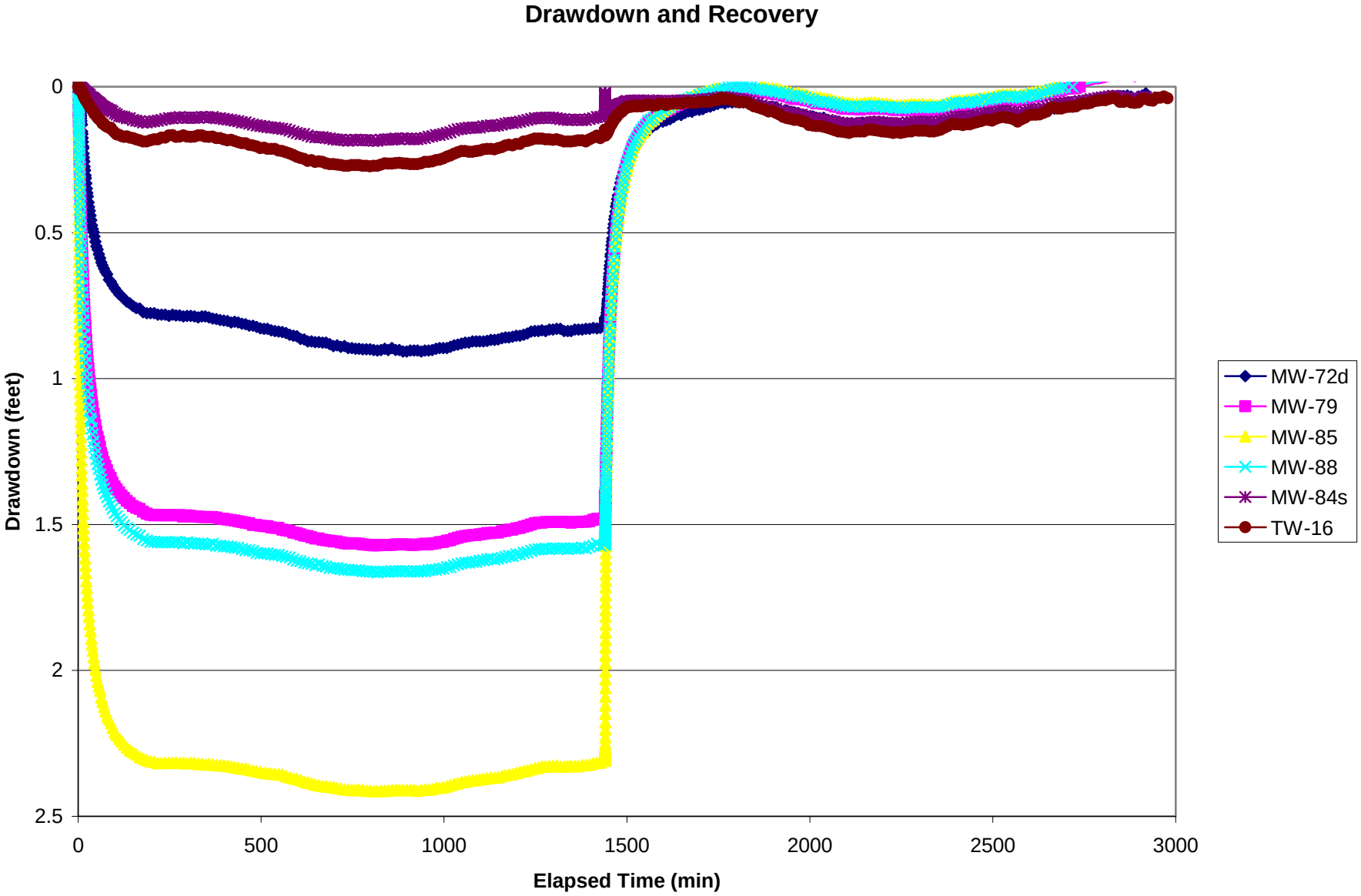


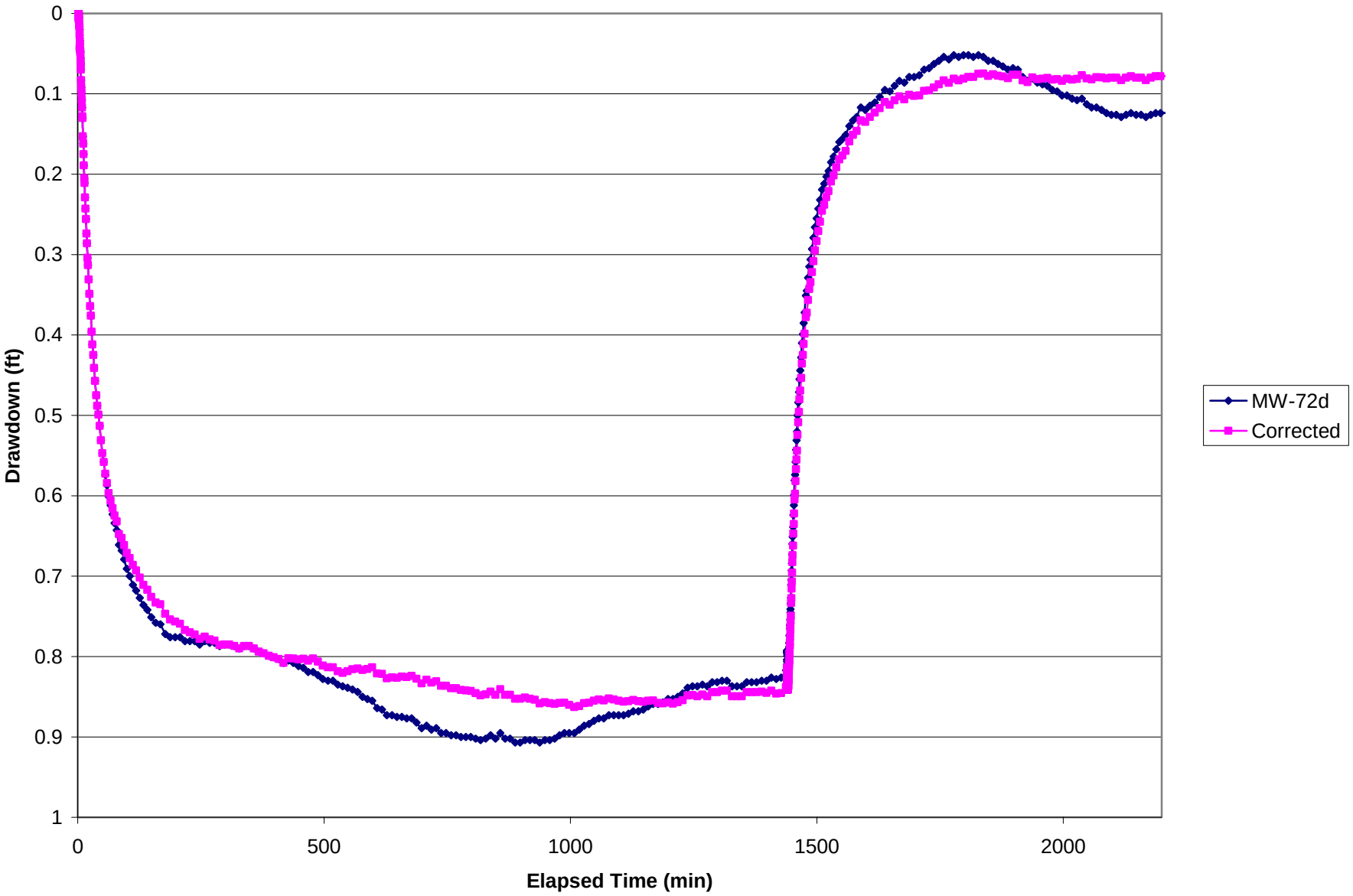
Thiem (Distance-Drawdown)

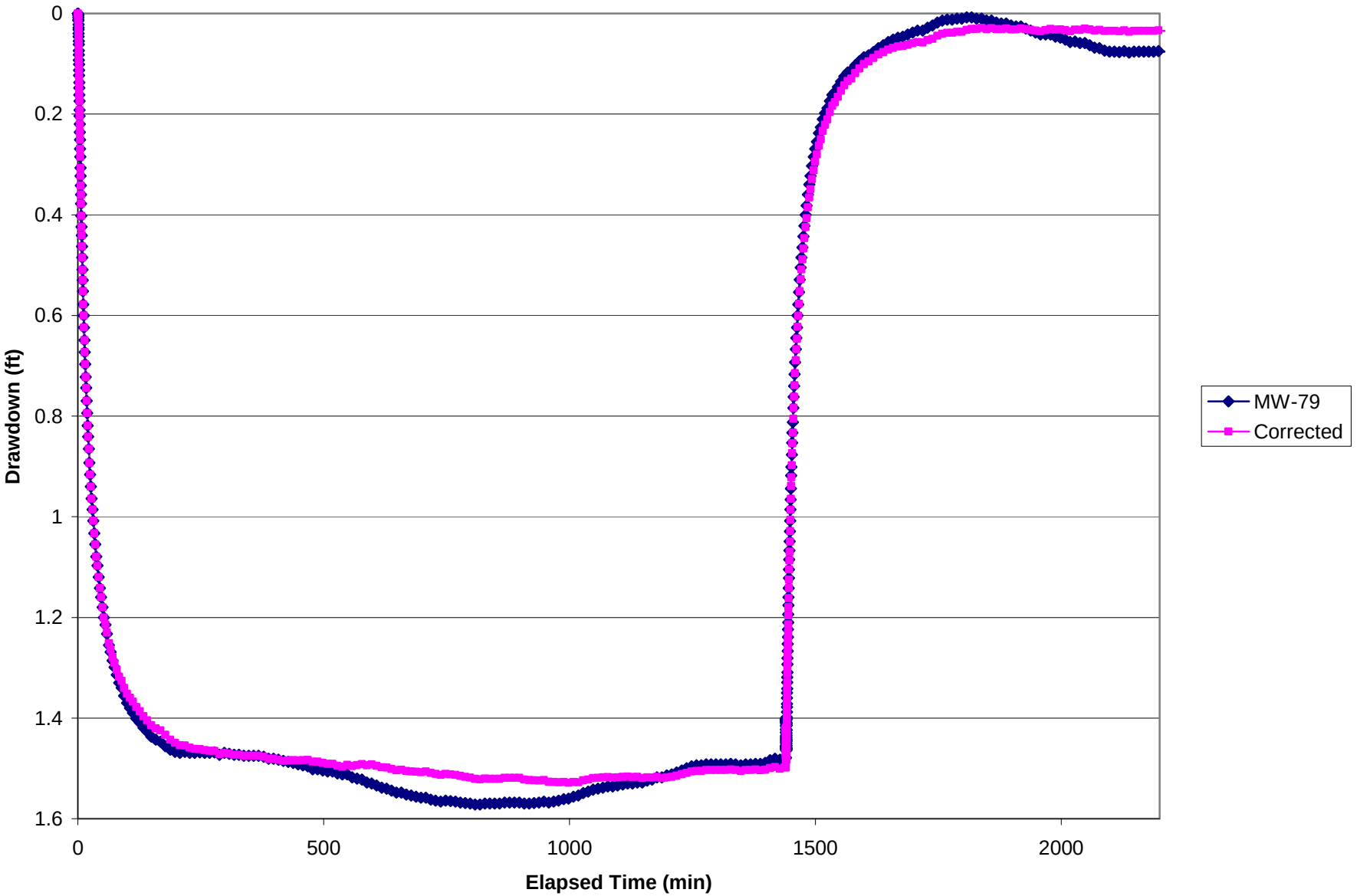


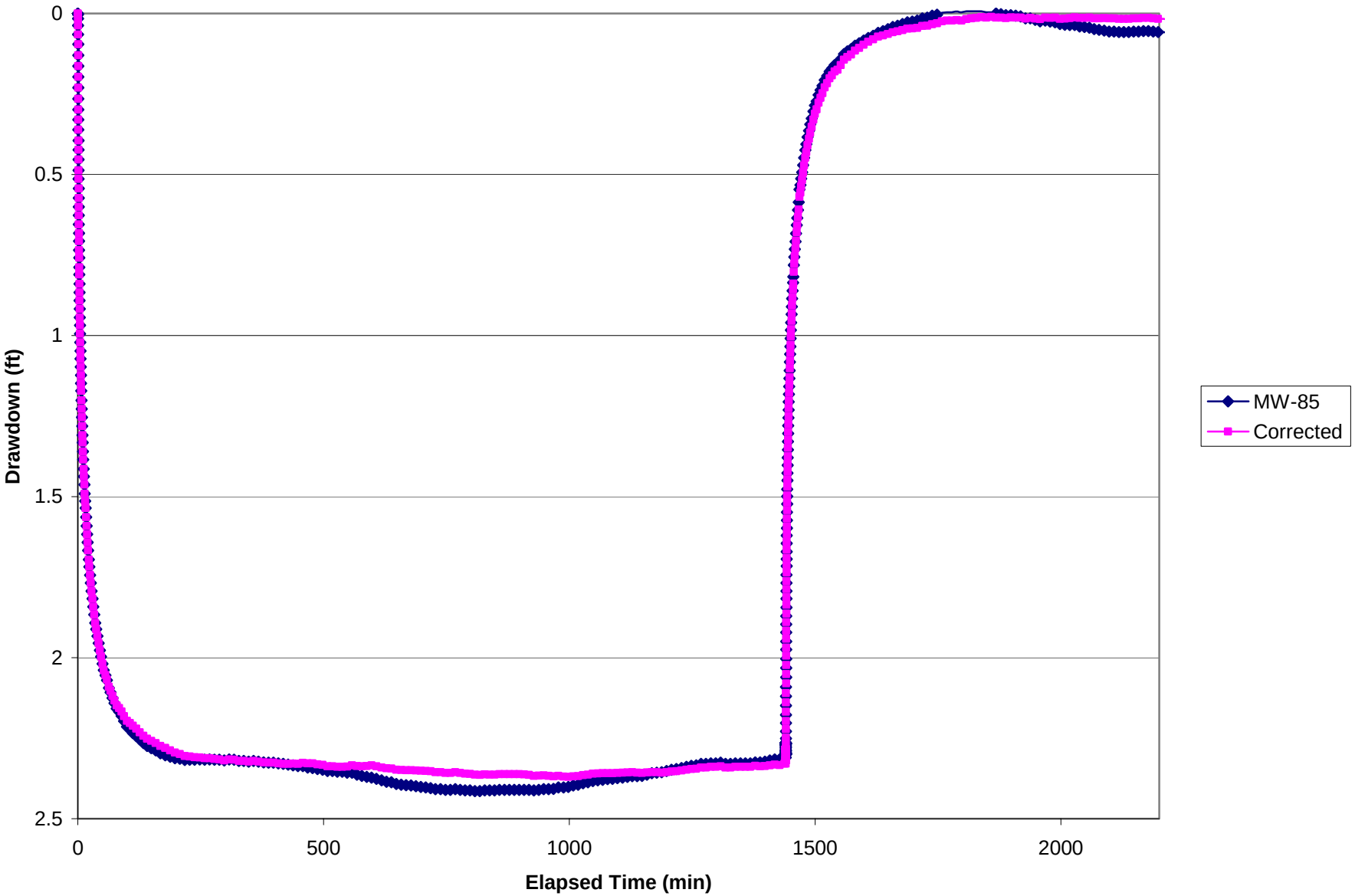

Hantush - Multiple Well Analysis (MW-72d, MW-79, MW-85, and MW-88)
(Individual Wells - Group Optimized)
W(u,r/B)+f
1/u
Pall Corporation, Inc.
TW-19 Aquifer Test, Drawdown Analysis
Pumping Well Name TW-19
Pumping Rate 203.973 gal/min
Transmissivity 54252.5 gal/d/ft
Storage Coefficient 0.000167249 dimensionless

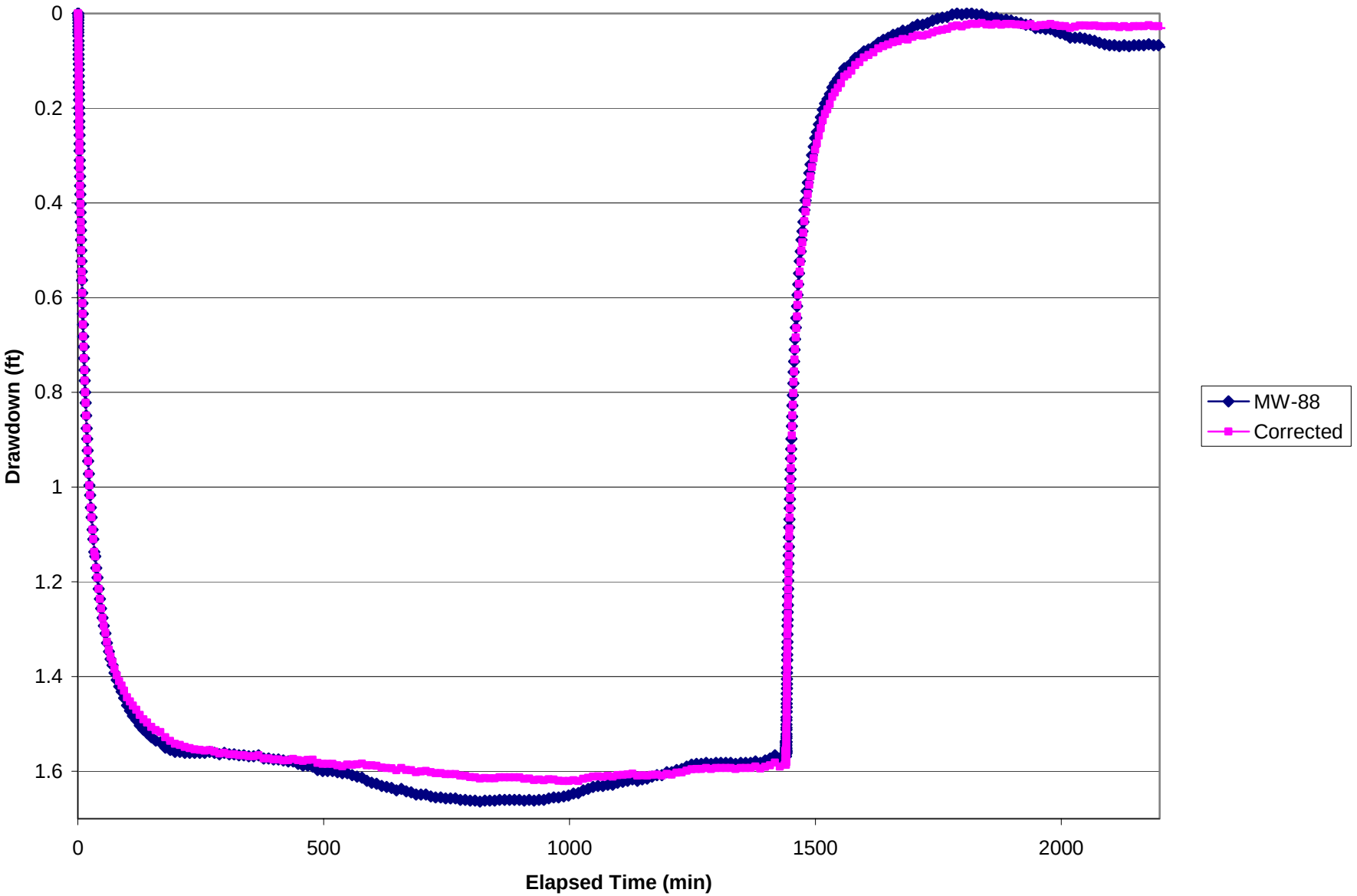

Hantush - Multiple Well Analysis (MW-72d, MW-79, MW-85, and MW-88)
(All Well Data Included In Group Match)
W(u,r/B)+f
1/u
Pall Corporation, Inc.
TW-19 Aquifer Test, Drawdown Analysis
Pumping Well Name TW-19
Pumping Rate 203.973 gal/min
Transmissivity 54544.2 gal/d/ft
Storage Coefficient 1.46467e-005 dimensionless

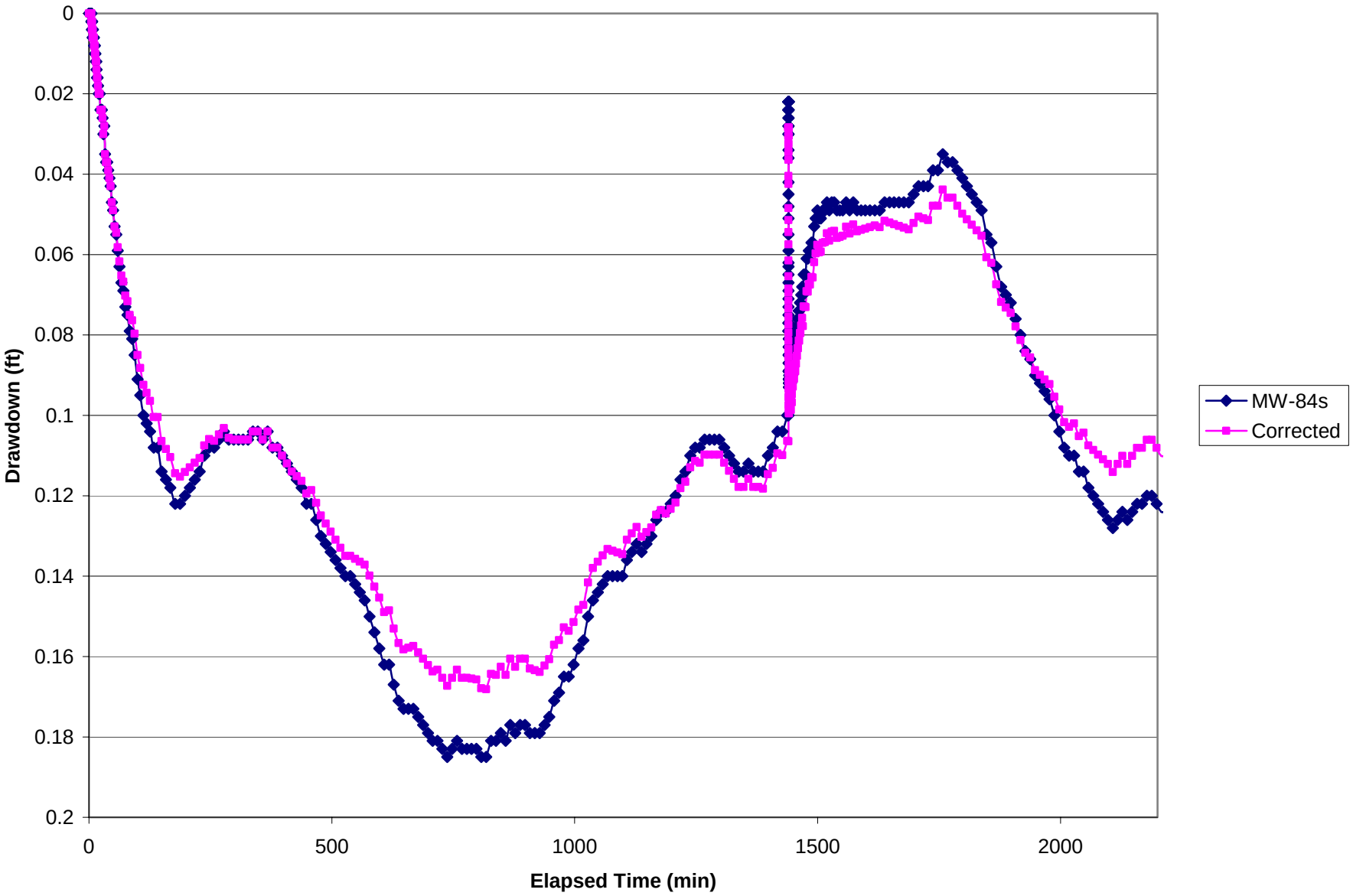

Drawdown and Recovery
Drawdown (feet)
0
0.5
1
1.5
2
2.5
0
500
1000
1500
2000
2500
3000
Elapsed Time (min)
MW-72d
MW-79
MW-85
MW-88
MW-84s
TW-16


0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Drawdown (ft)
0
500
1000
1500
2000
Elapsed Time (min)
MW-72d
Corrected


0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
Drawdown (ft)
0
500
1000
1500
2000
Elapsed Time (min)
MW-79
Corrected


0
0.5
1
1.5
2
2.5
Drawdown (ft)
0
500
1000
1500
2000
Elapsed Time (min)
MW-85
Corrected


0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
Drawdown (ft)
0
500
1000
1500
2000
Elapsed Time (min)
MW-88
Corrected


0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Drawdown (ft)
0
500
1000
1500
2000
Elapsed Time (min)
MW-84s
Corrected

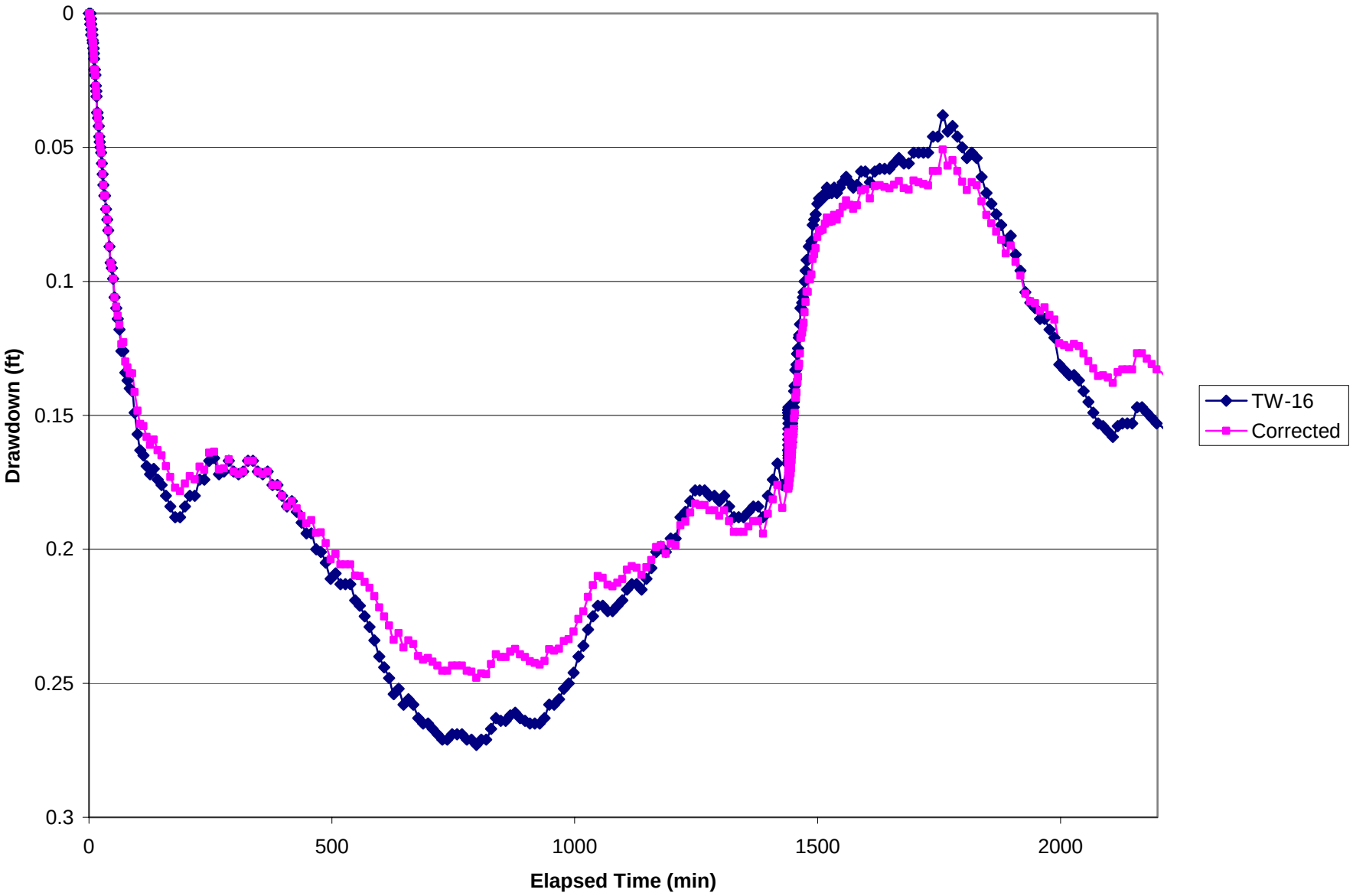

0
0.05
0.1
0.15
0.2
0.25
0.3
Drawdown (ft)
0
500
1000
1500
2000
Elapsed Time (min)
TW-16
Corrected

Table 4 – Summary of Aquifer Coefficients
TW-19 Aquifer Test
Pall Life Sciences, Ann Arbor, Michigan

Method:	Hantush Confined Partial Penetration		Cooper-Jacob Straight-Line Method		Theis Recovery	
	T	S	T	S	T	S
MW-72d	56,129	8.17E-05	87,649	6.76E-05	101,540	NA
MW-79	49,293	2.71E-04	58,315	2.16E-04	60,649	NA
MW-85	45,684	1.52E-04	52,273	1.77E-04	53,712	NA
MW-88	44,750	1.37E-04	60,903	1.08E-04	60,284	NA
MW-84s	102,747	9.49E-04	484,293	3.87E-03	68,646	NA
TW-16	275,695	2.92E-03	359,442	2.15E-03	62,881	NA
Multiple Well Analysis Using Group Match Data	54,544	1.46E-05				
Multiple Well Analysis with Individual Wells Group Optimized	54,253	1.60E-04				
Thiem Distance-Drawdown	52,420	NA				
Average	51,010	1.36E-04			58,215	

NA = Not Applicable
T = Transmissivity (gpd/ft)
S = Storativity (dimensionless)
Results are not considered valid since wells appear to be in different aquifer or the method assumptions are violated, but results are provided for comparision purposes.