



Direct-Sensing Survey Report

PLACEHOLDER FOR DIRECT-SENSING SURVEY REPORT



Hydraulic Conductivity Tests

Table 5
Hydraulic Conductivity Test Results

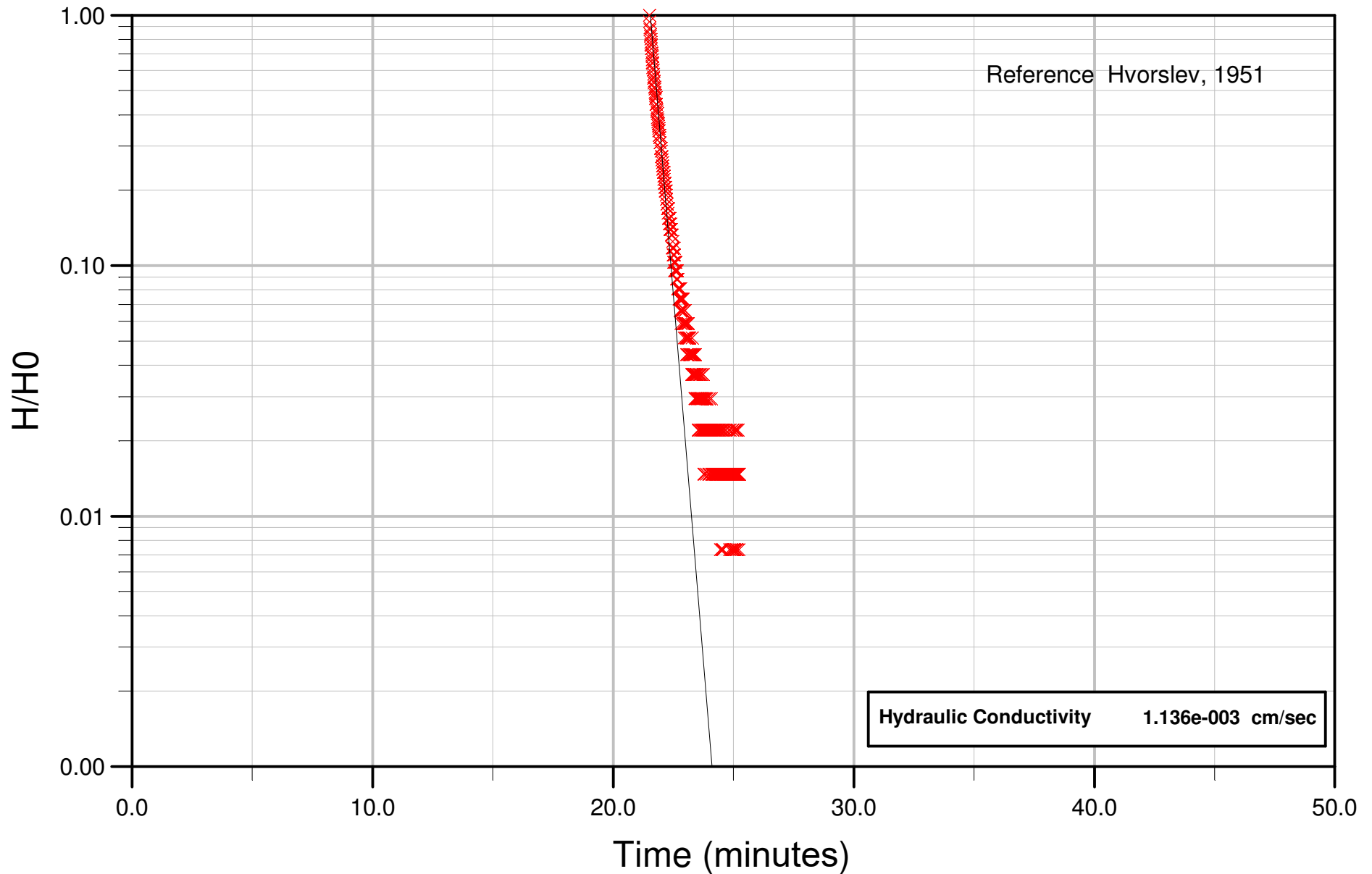
Taconic
Petersburgh, New York

Well ID	Unit Screened	Slug Test Type	Number of Tests	Number of Tests Analyzed	Analysis Method	Test 1 Hydraulic Conductivity (cm/sec)	Test 2 Hydraulic Conductivity (cm/sec)	Test 3 Hydraulic Conductivity (cm/sec)	Test 4 Hydraulic Conductivity (cm/sec)	Average K value (cm/sec)	Average K value (ft/day)
MW-1S	Shallow Overburden	Conventional	4	4	Confined - Hvorslev	1.02E-02	4.09E-03	6.09E-03	3.49E-03	5.97E-03	16.89
MW-1D	Deep Overburden	Conventional	4	4	Confined - Hvorslev	1.14E-03	7.24E-04	8.74E-04	6.32E-04	8.43E-04	2.38
MW-3S	Shallow Overburden	Conventional	4	4	Confined - Hvorslev	4.15E-03	1.87E-03	2.85E-03	1.61E-03	2.62E-03	7.41
MW-4S	Shallow Overburden	---	---	---	---	---	---	---	---	---	---
MW-5S	Shallow Overburden	Conventional	4	4	Confined - Hvorslev	2.53E-03	2.19E-03	1.90E-03	1.51E-03	2.03E-03	5.75
MW-6S	Shallow Overburden	Conventional	2	2	Confined - Hvorslev	4.63E-04	2.96E-03	---	---	1.71E-03	4.84
MW-7S	Shallow Overburden	Conventional	3	3	Confined - Hvorslev	2.68E-03	1.03E-03	8.04E-04	---	1.50E-03	4.26
MW-8D	Deep Overburden	Conventional	4	4	Confined - Hvorslev	2.46E-03	2.13E-03	2.28E-03	1.94E-03	2.20E-03	6.23
MW-9S	Shallow Overburden	Conventional	4	4	Confined - Hvorslev	6.46E-03	5.42E-03	5.92E-03	5.03E-03	5.71E-03	16.15
MW-9D	Deep Overburden	Conventional	4	4	Confined - Hvorslev	2.40E-03	2.03E-03	2.21E-03	1.88E-03	2.13E-03	6.03
MW-10S	Shallow Overburden	Conventional	4	4	Confined - Hvorslev	3.58E-03	3.31E-03	3.46E-03	3.19E-03	3.39E-03	9.58
MW-10D	Deep Overburden	Conventional	4	4	Confined - Hvorslev	1.56E-03	1.38E-03	1.48E-03	1.29E-03	1.43E-03	4.04
MW-11S	Shallow Overburden	Conventional	4	4	Confined - Hvorslev	1.94E-03	1.63E-03	1.77E-03	1.53E-03	1.72E-03	4.86
MW-11D	Deep Overburden	Conventional	4	4	Confined - Hvorslev	1.85E-03	1.58E-03	1.73E-03	5.14E-03	2.58E-03	7.29
MW-12S	Shallow Overburden	Conventional	4	4	Confined - Hvorslev	2.99E-03	2.15E-03	2.50E-03	1.95E-03	2.40E-03	6.78
MW-13S	Shallow Overburden	Conventional	4	4	Confined - Hvorslev	1.10E-03	1.03E-03	1.07E-03	1.00E-03	1.05E-03	2.97
MW-13D	Deep Overburden	Conventional	3	3	Confined - Hvorslev	1.66E-03	1.44E-03	1.28E-03	---	1.46E-03	4.13
MW-14S	Shallow Overburden	Conventional	4	4	Confined - Hvorslev	2.45E-03	1.99E-03	2.20E-03	1.81E-03	2.11E-03	5.98
MW-14D	Deep Overburden	Conventional	2	2	Confined - Hvorslev	1.17E-03	1.69E-04	---	---	6.70E-04	1.89
MW-15S	Shallow Overburden	Conventional	3	3	Confined - Hvorslev	1.44E-03	7.98E-04	5.34E-04	---	9.24E-04	2.61
MW-15D	Deep Overburden	Conventional	4	4	Confined - Hvorslev	8.75E-04	4.78E-04	6.45E-04	4.04E-04	6.01E-04	1.70
MW-16S	Shallow Overburden	Conventional	4	4	Confined - Hvorslev	2.28E-03	1.77E-03	2.01E-03	1.64E-03	1.93E-03	5.45
MW-16D	Deep Overburden	Conventional	4	4	Confined - Hvorslev	3.17E-03	2.38E-03	2.82E-03	2.02E-03	2.60E-03	7.35
EXB-1	Shallow Bedrock	Conventional	2	2	Confined - Hvorslev	6.04E-04	1.34E-04	---	---	3.69E-04	1.04
EXB-2	Shallow Bedrock	Conventional	2	2	Confined - Hvorslev	2.31E-03	9.61E-04	---	---	1.64E-03	4.63

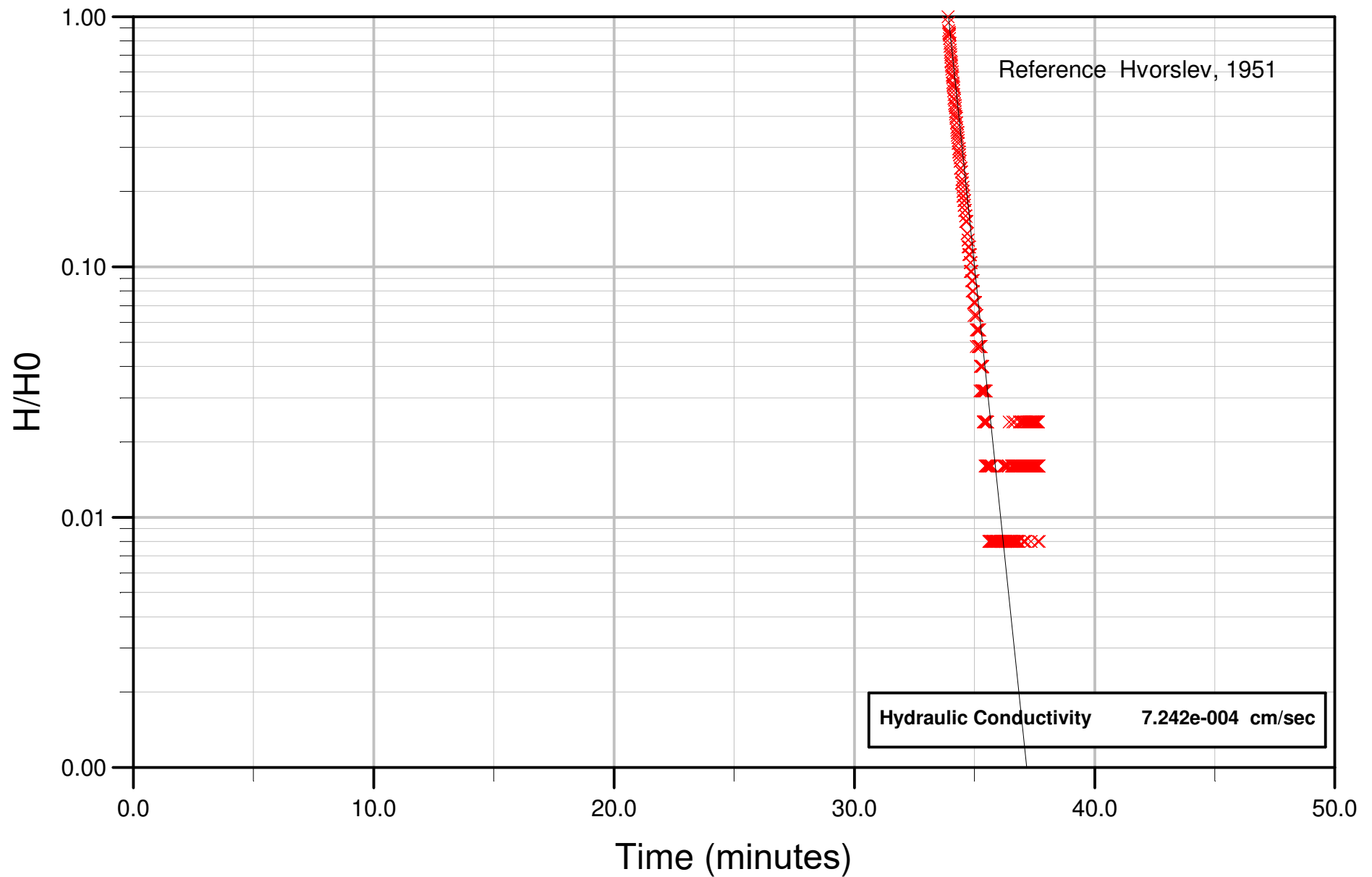
Notes

1. "cm/sec" designates centimeters per second.
2. "ft/day" designates feet per day.
3. "K" designates hydraulic conductivity.
4. Hydraulic conductivity testing was not performed at overburden monitoring well MW-4S (which is 5.0 feet deep and has a 2.0 foot screen).

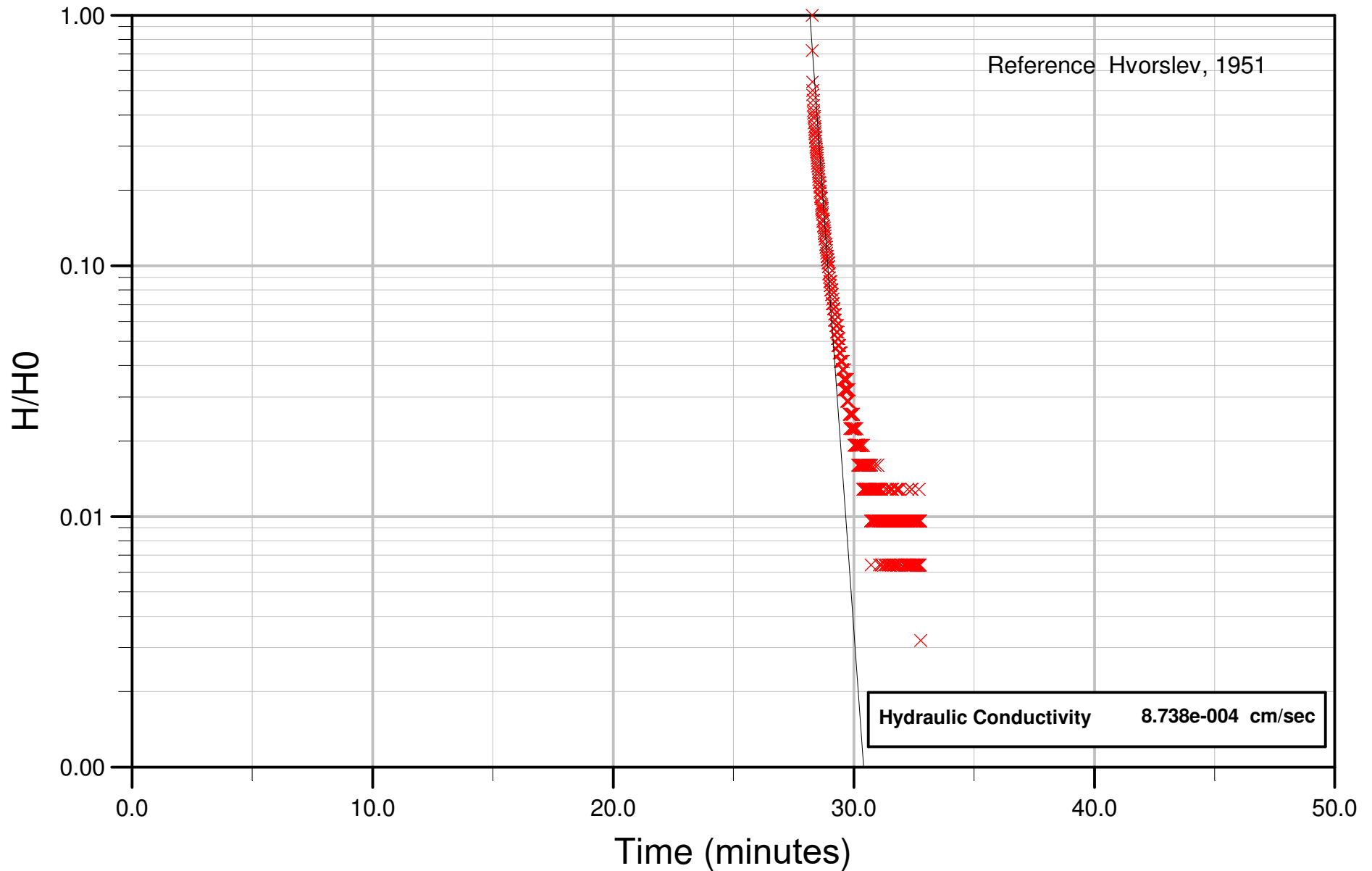
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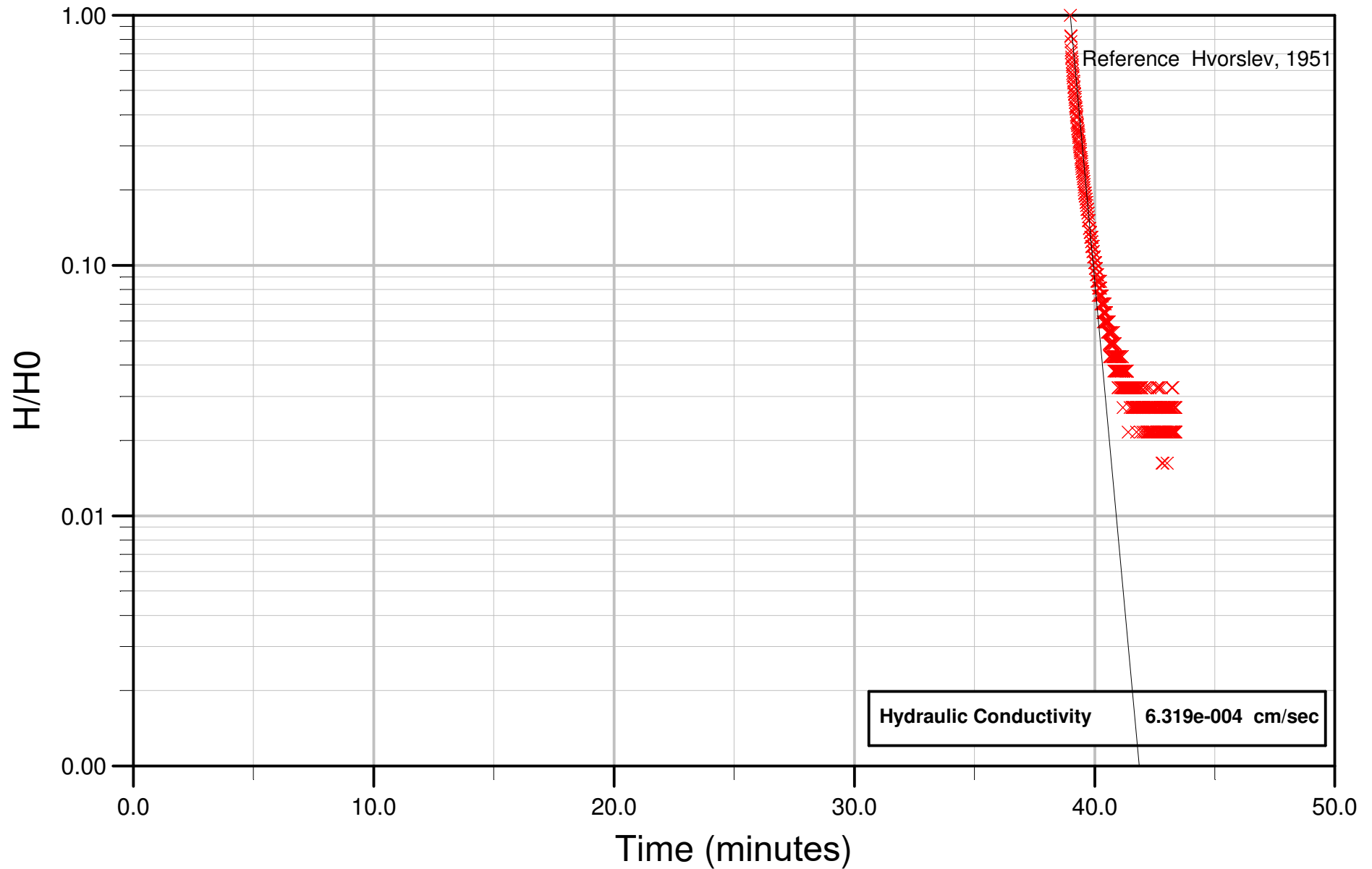
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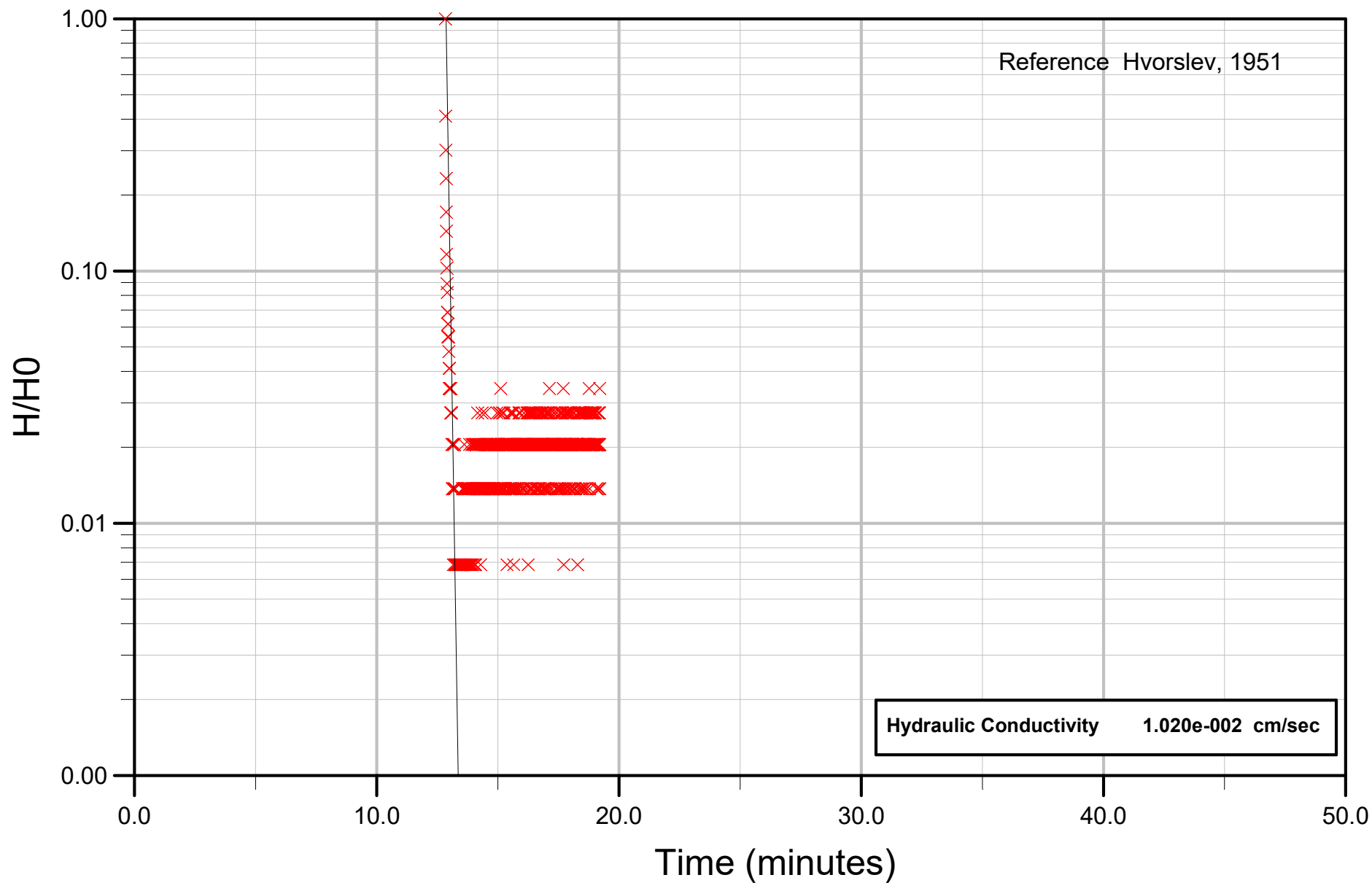
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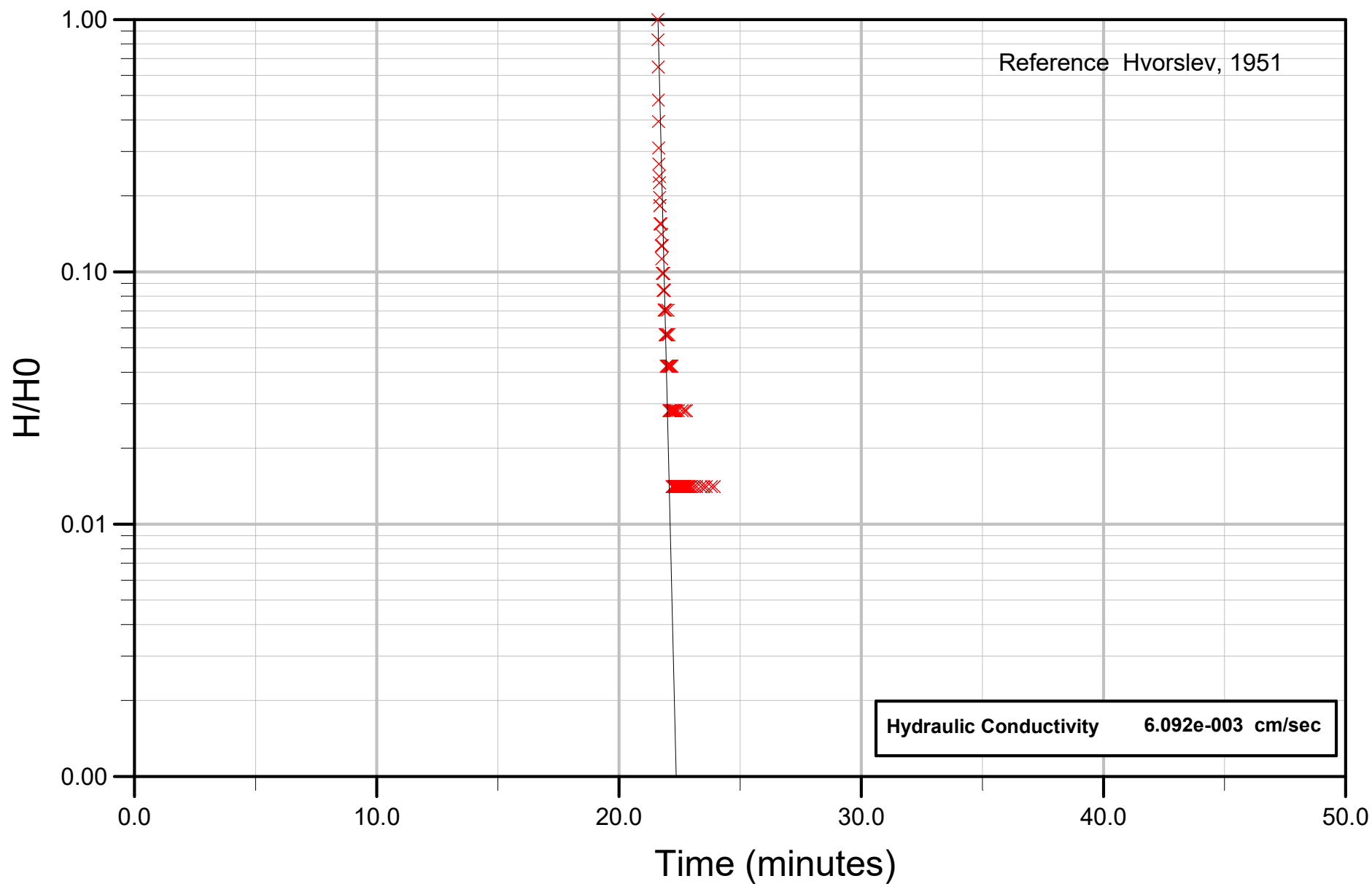
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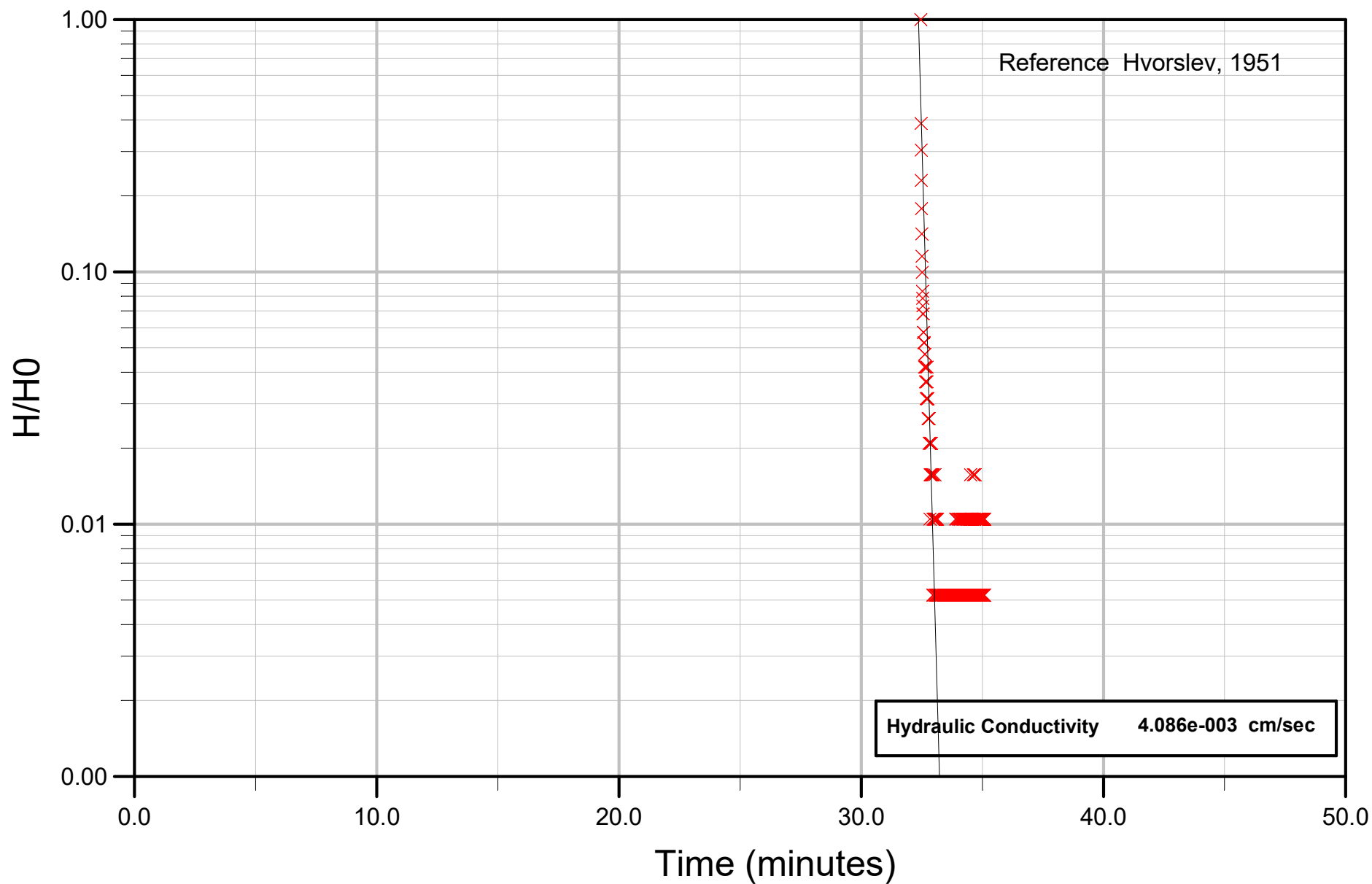
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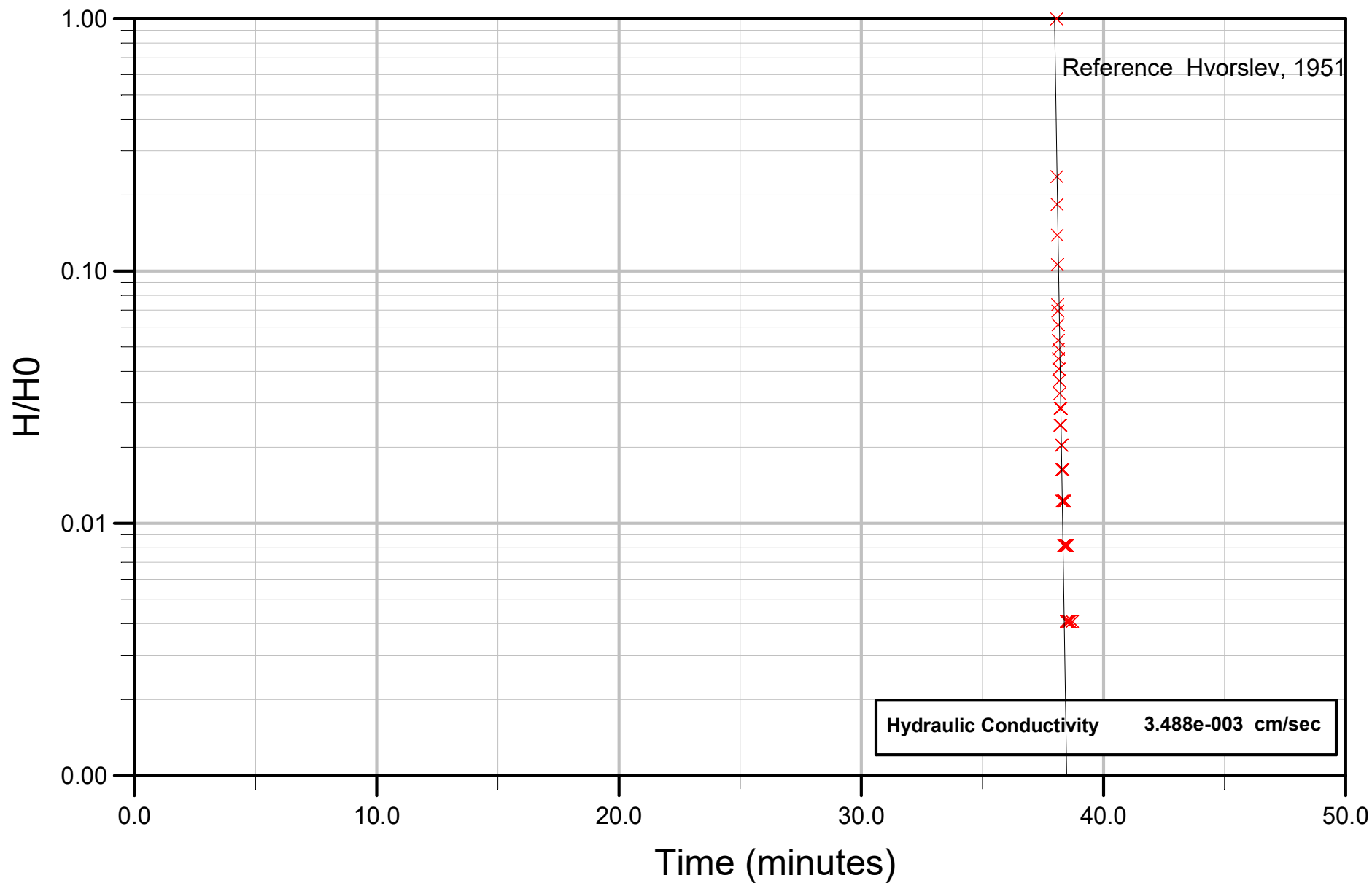
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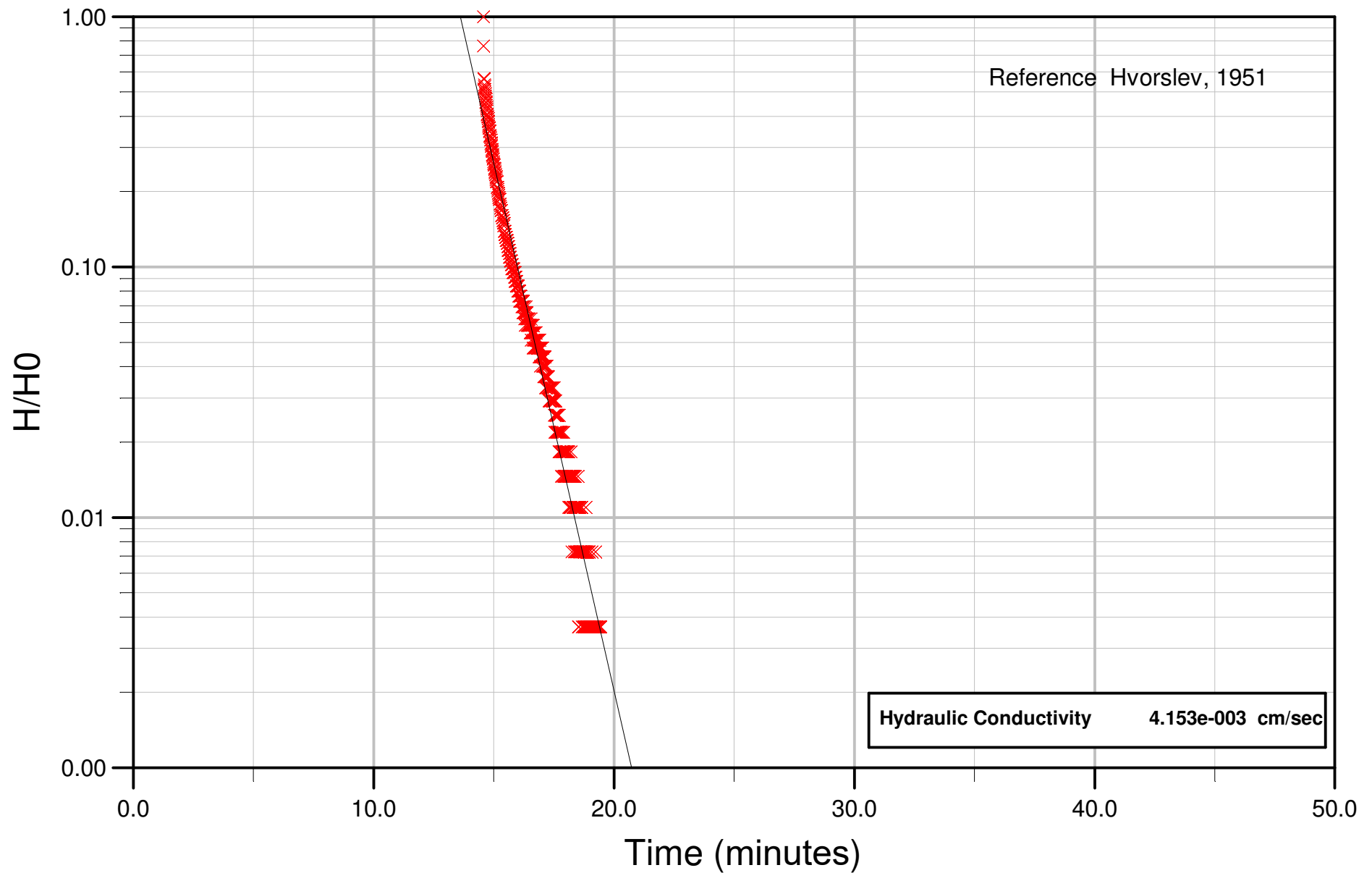
MW-1S Rising Head Test 3



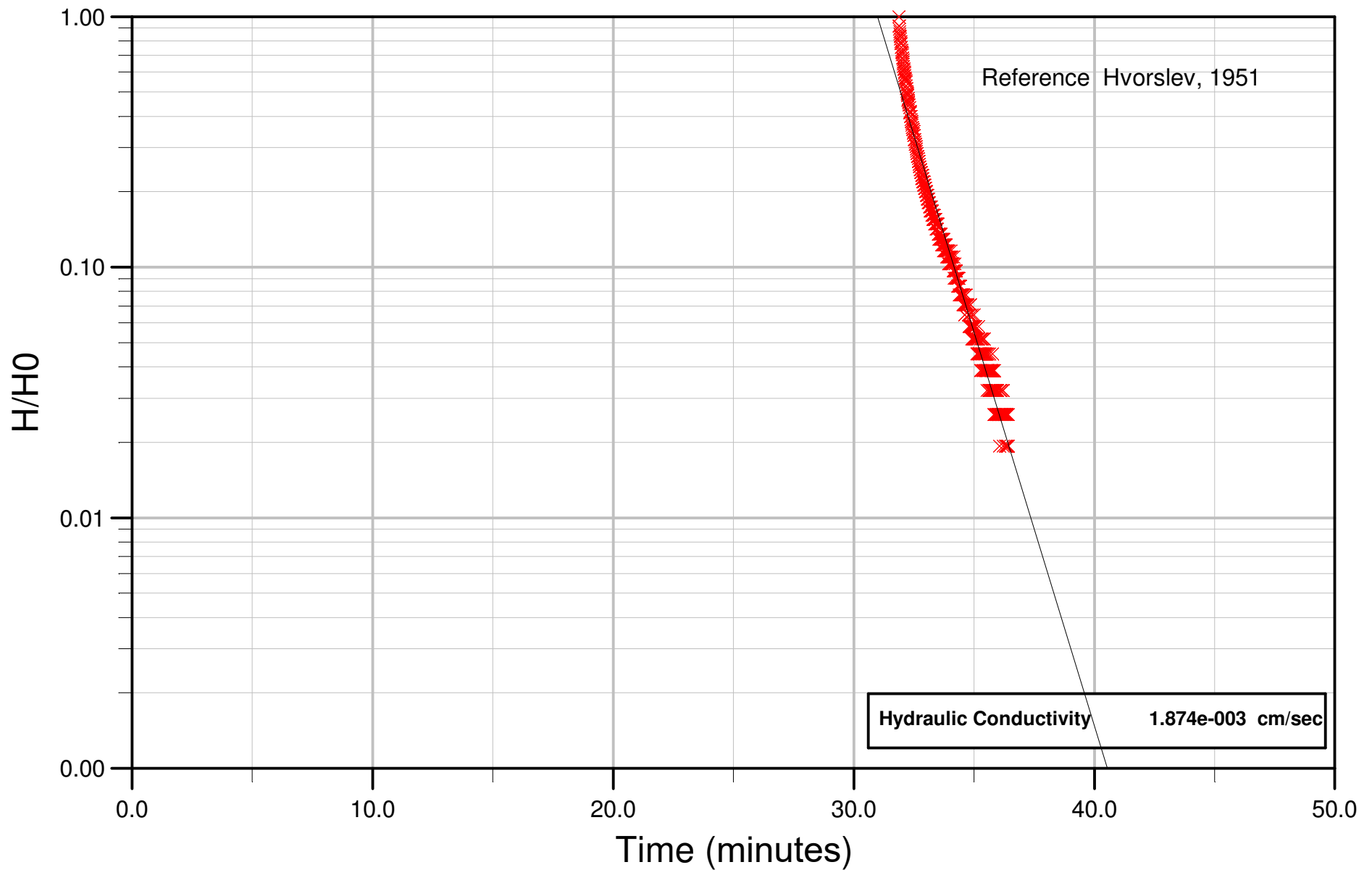
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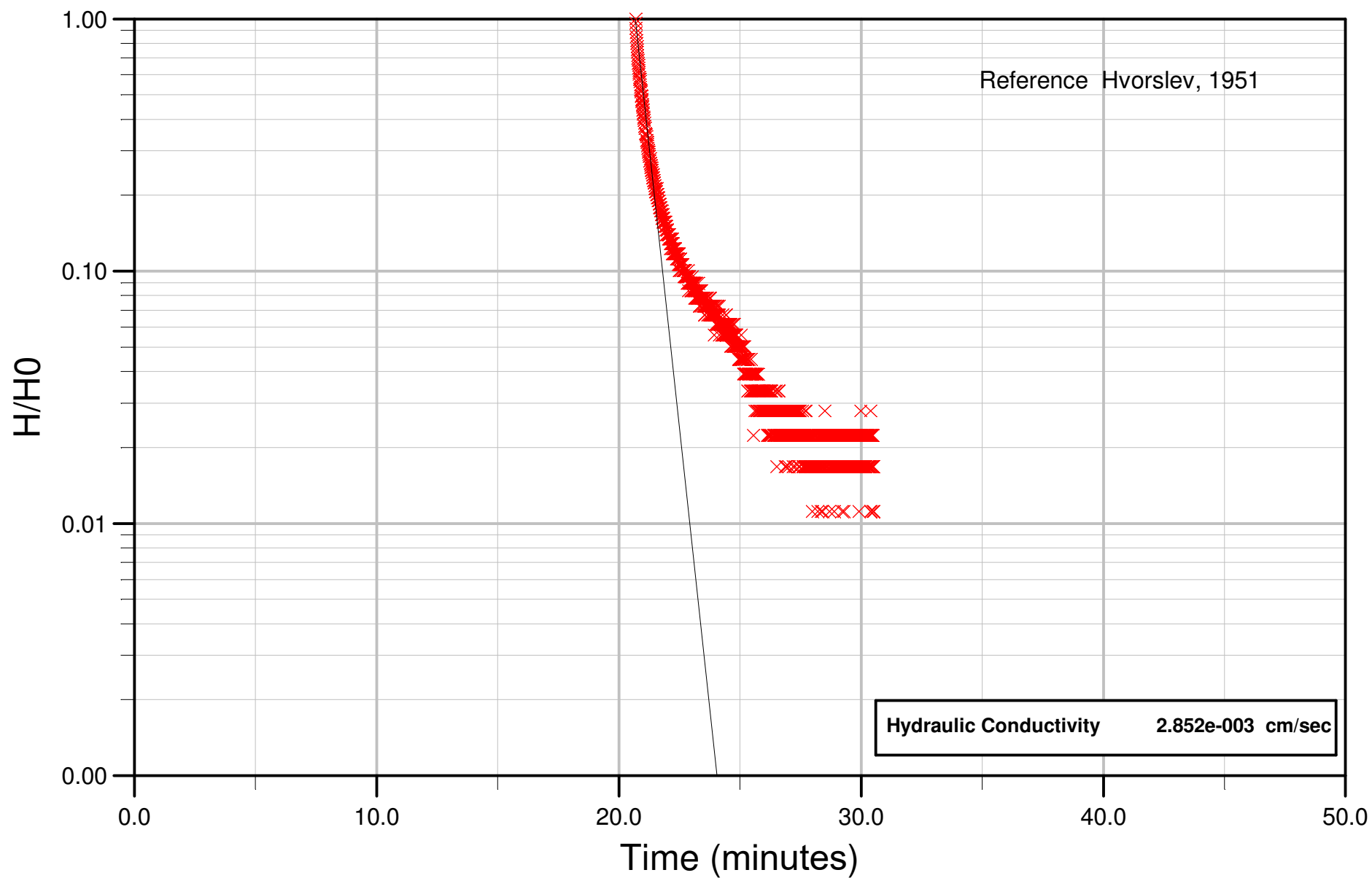
MW-3S Falling Head Test 1



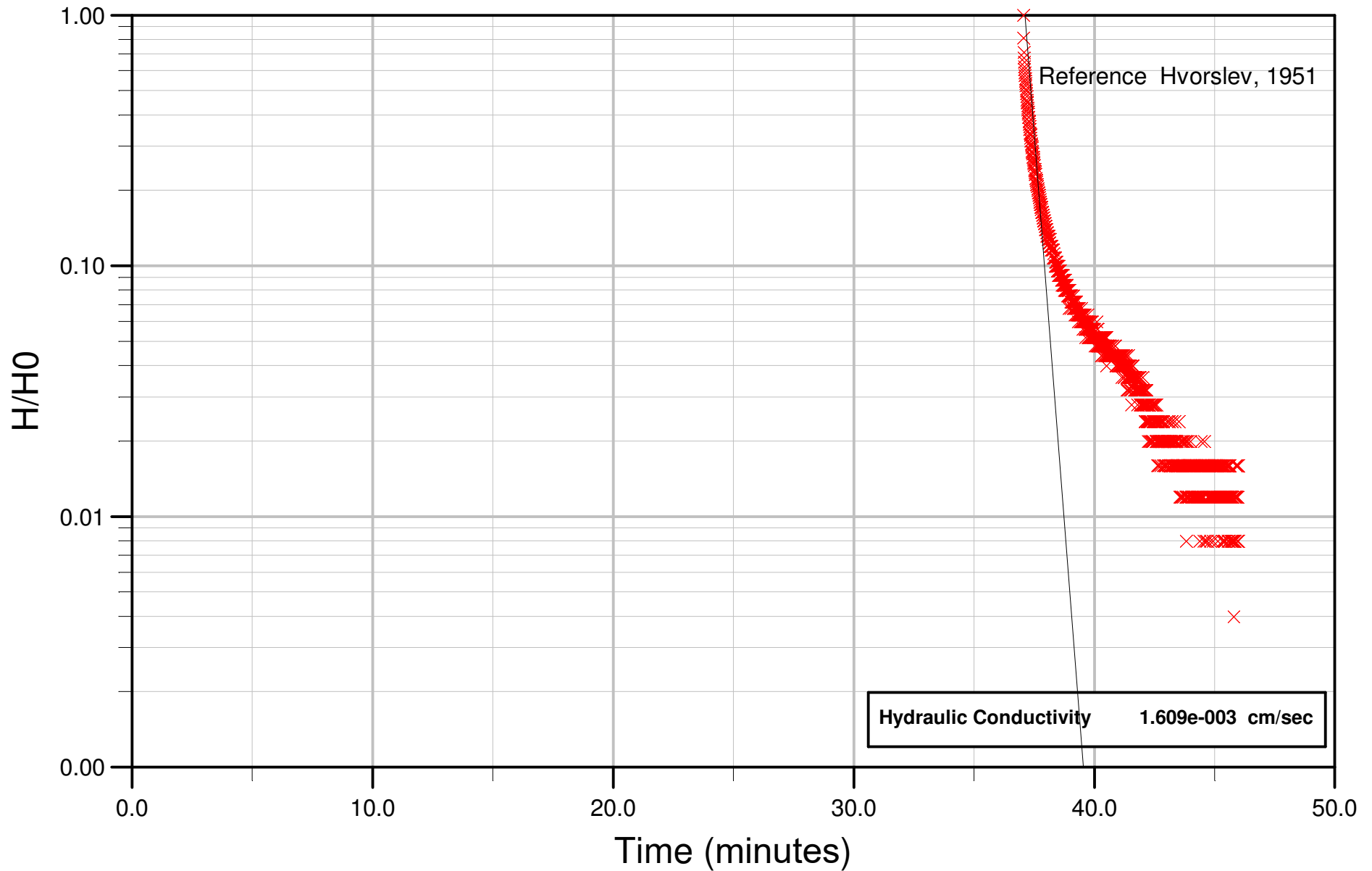
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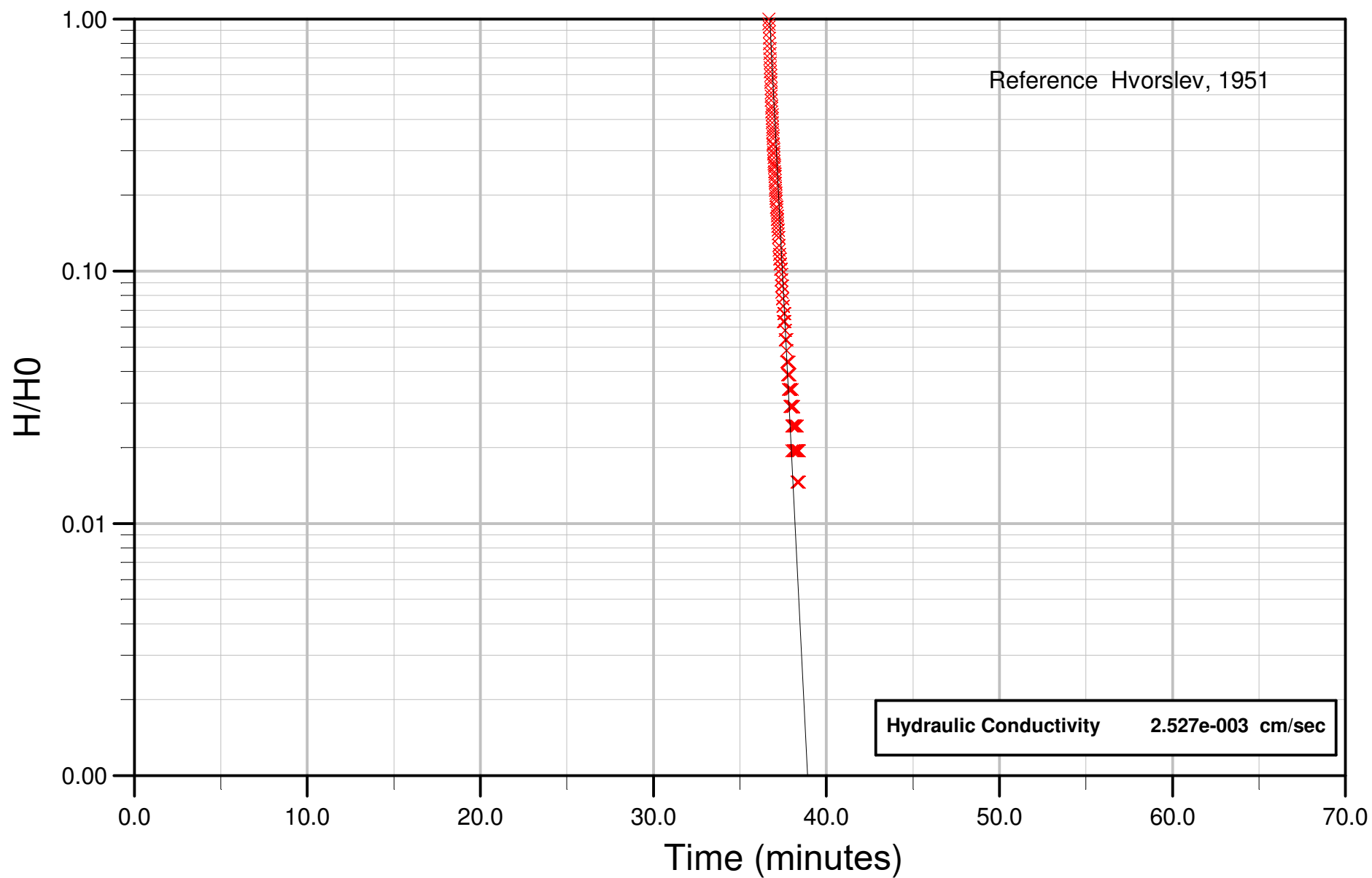
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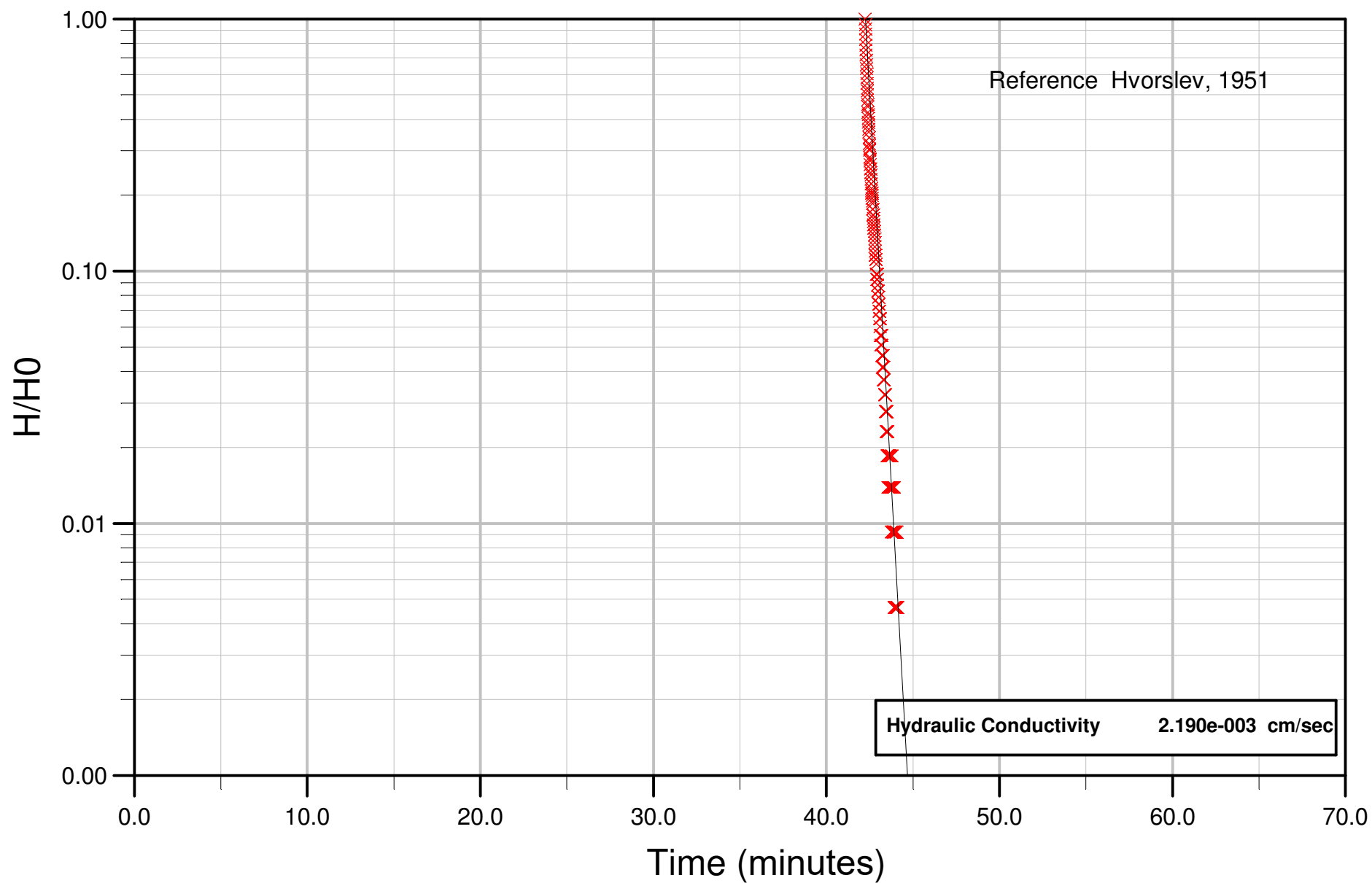
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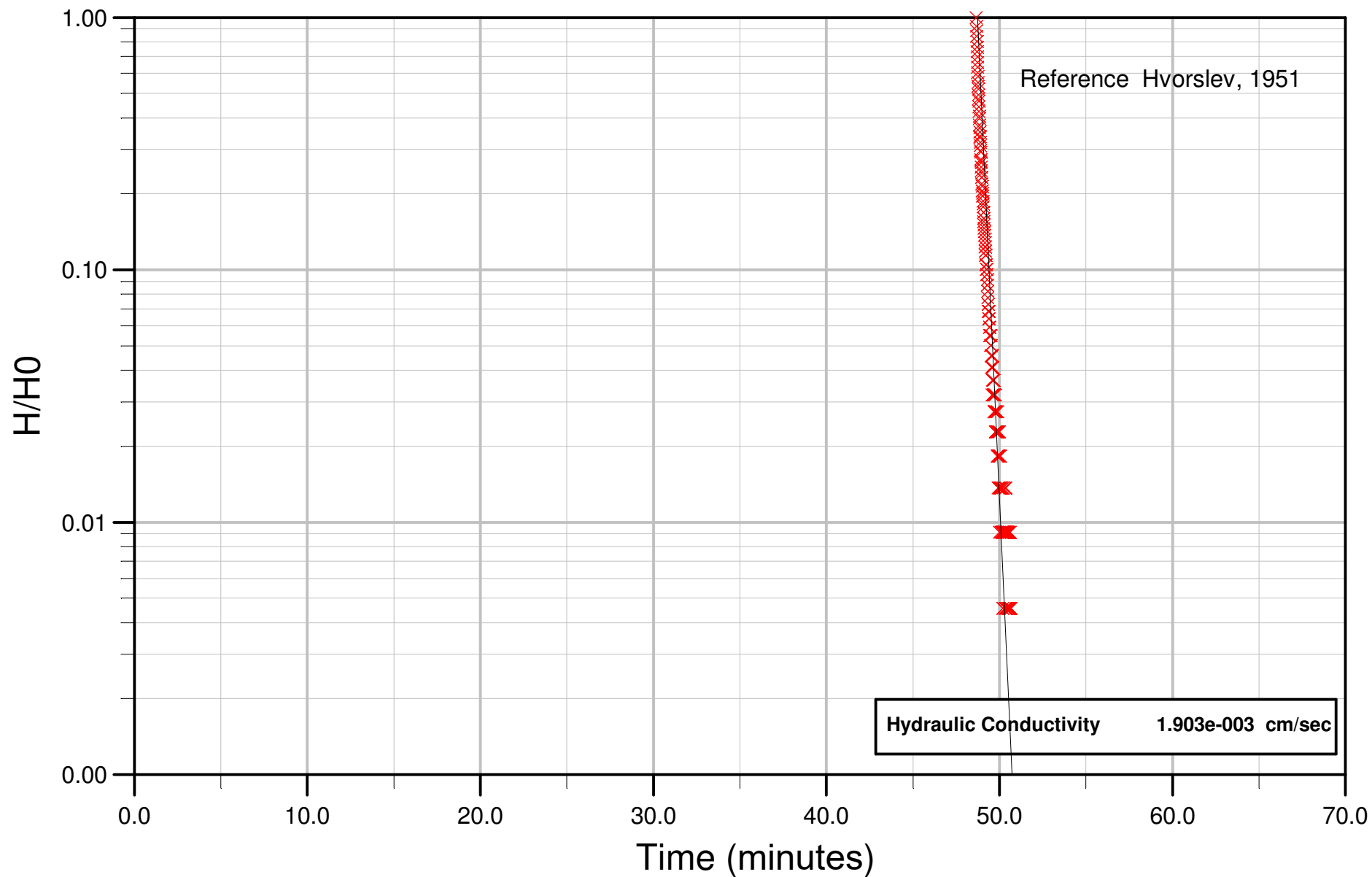
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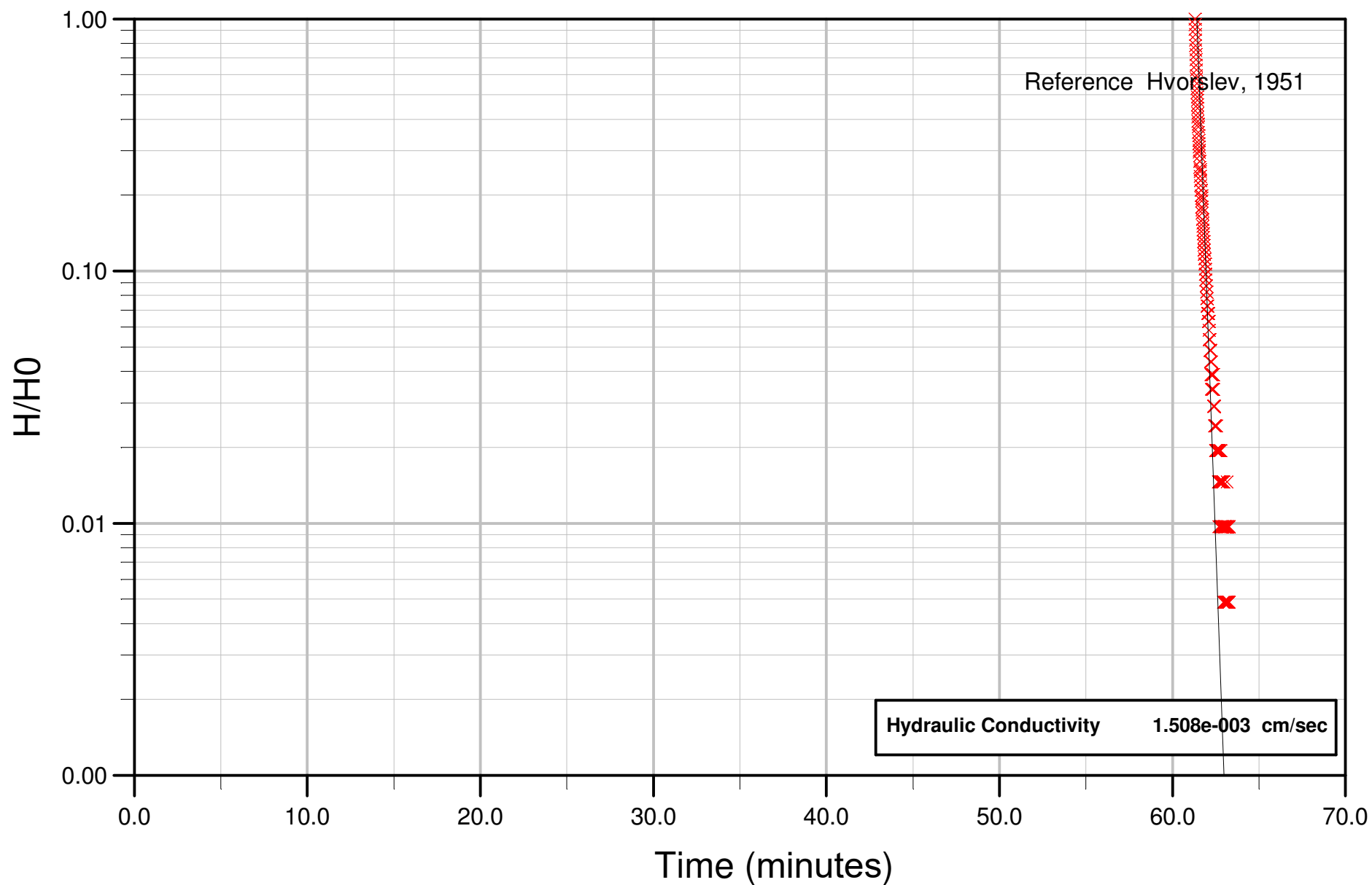
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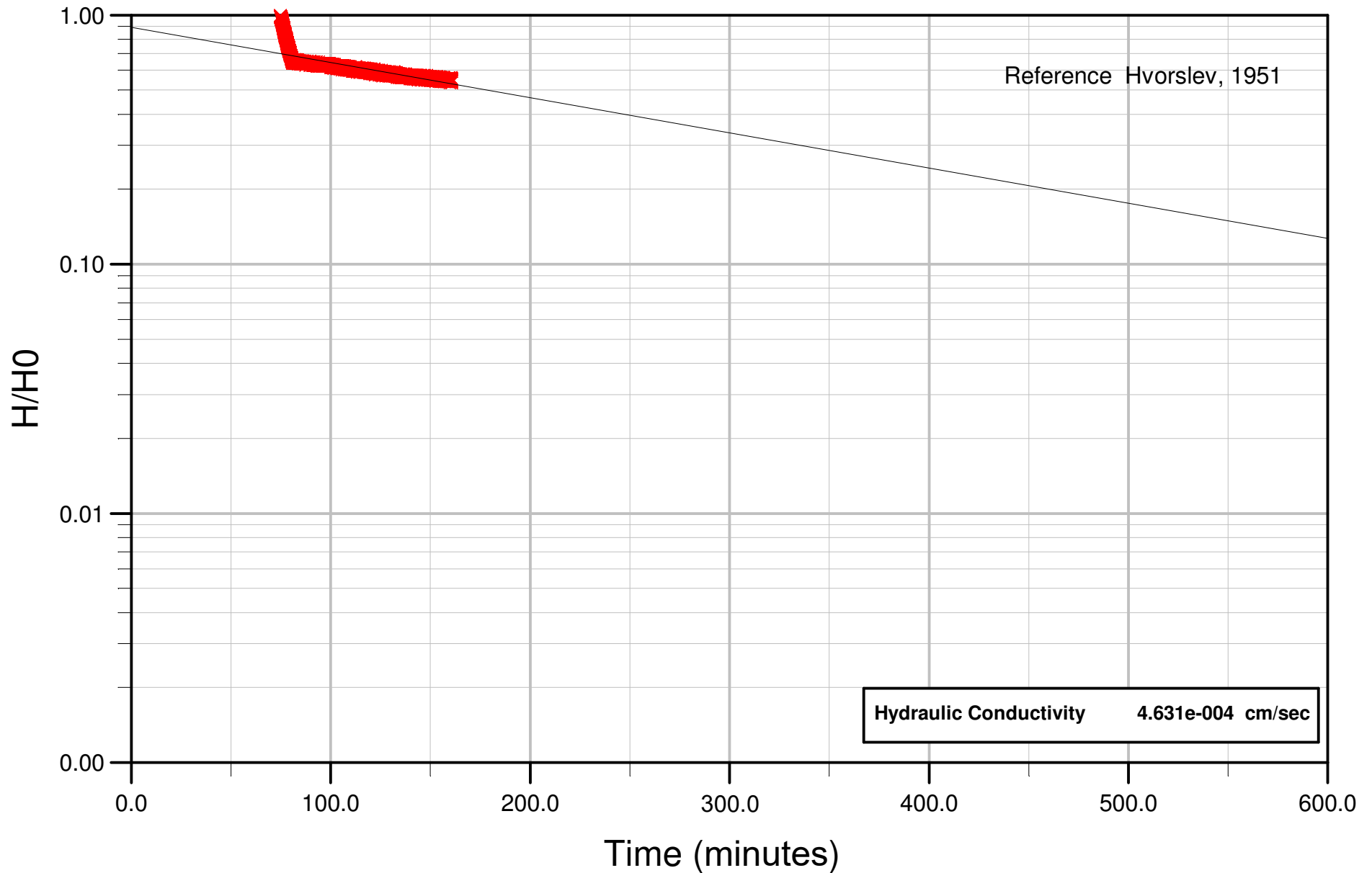
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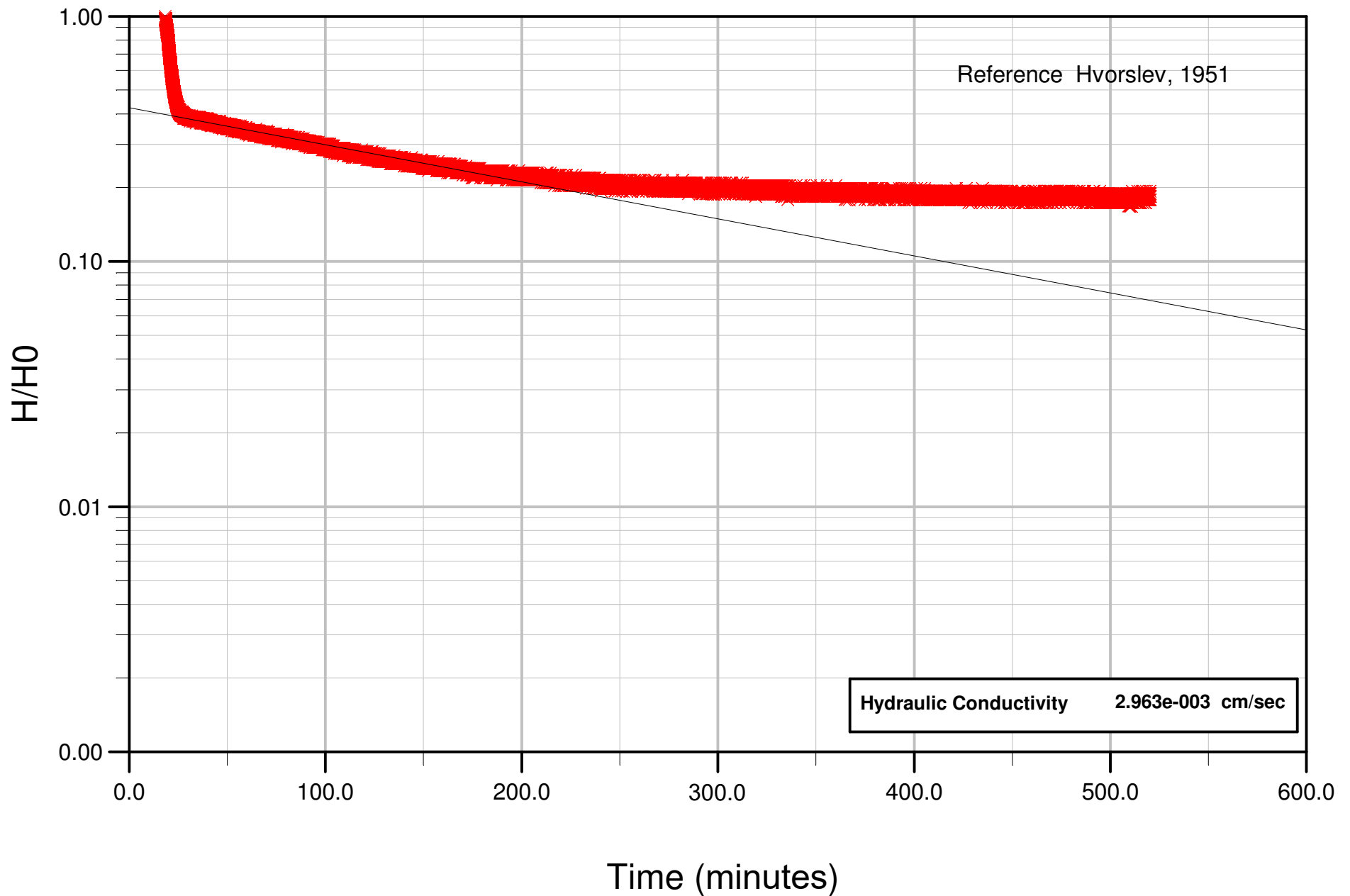
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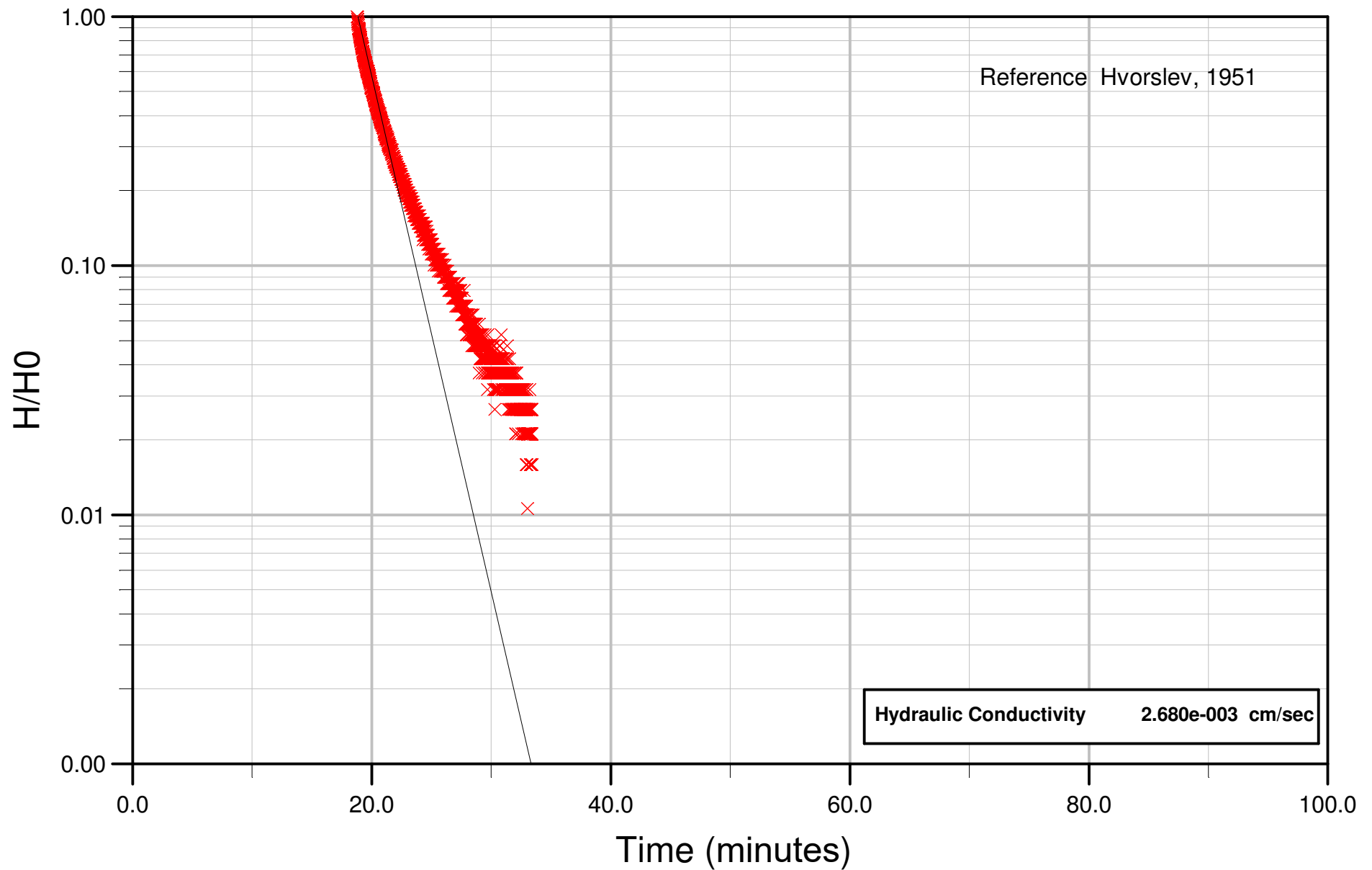
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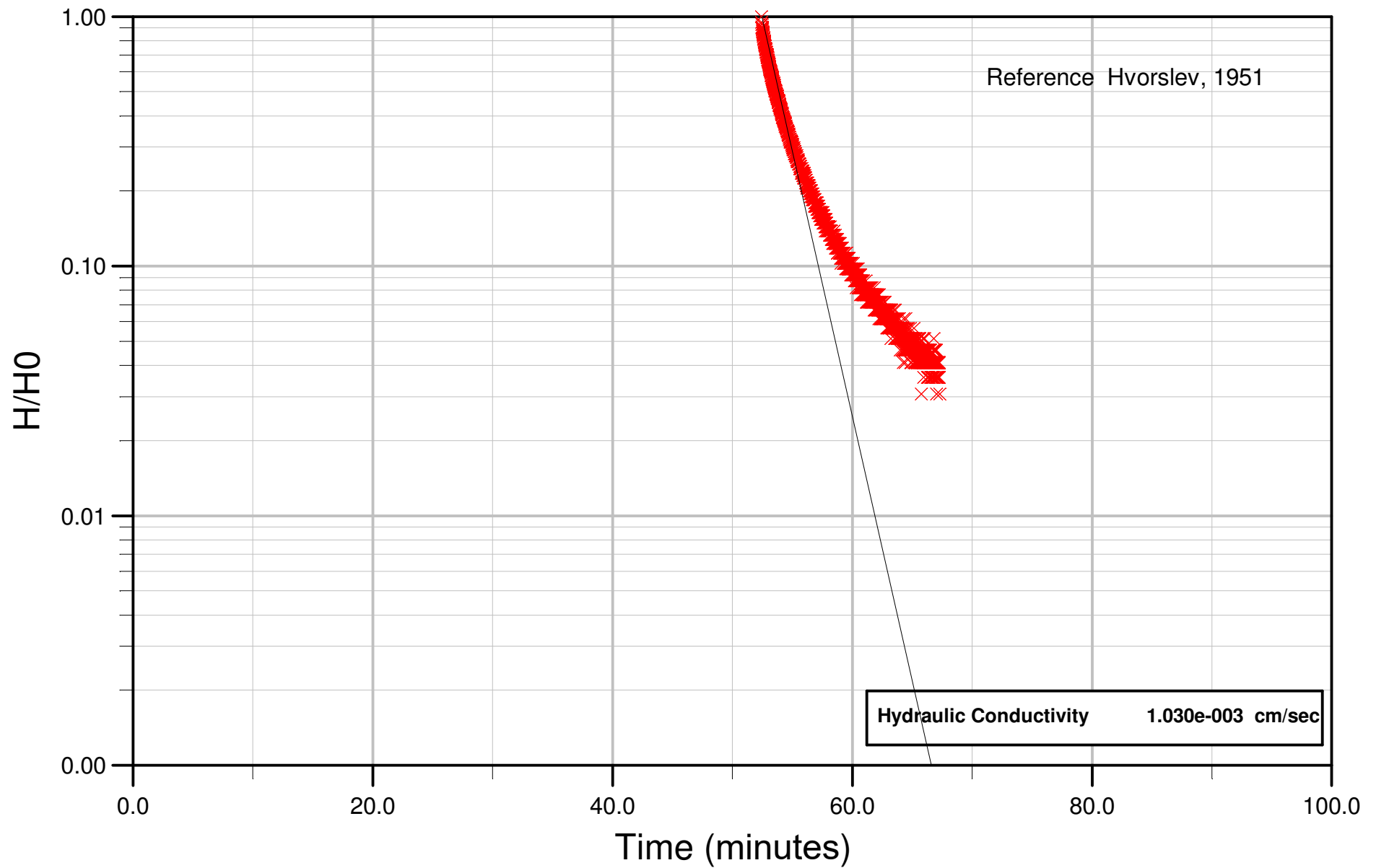
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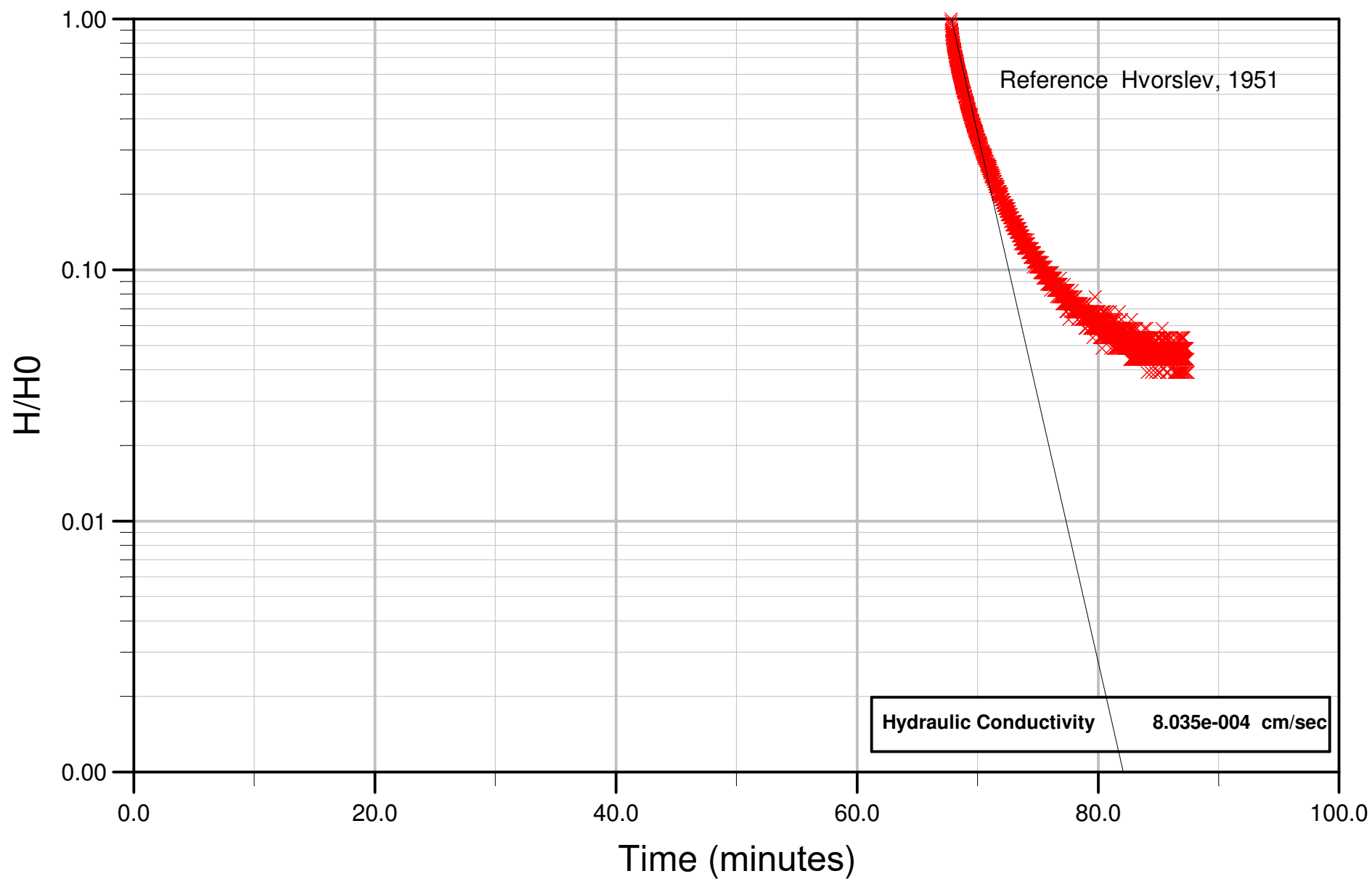
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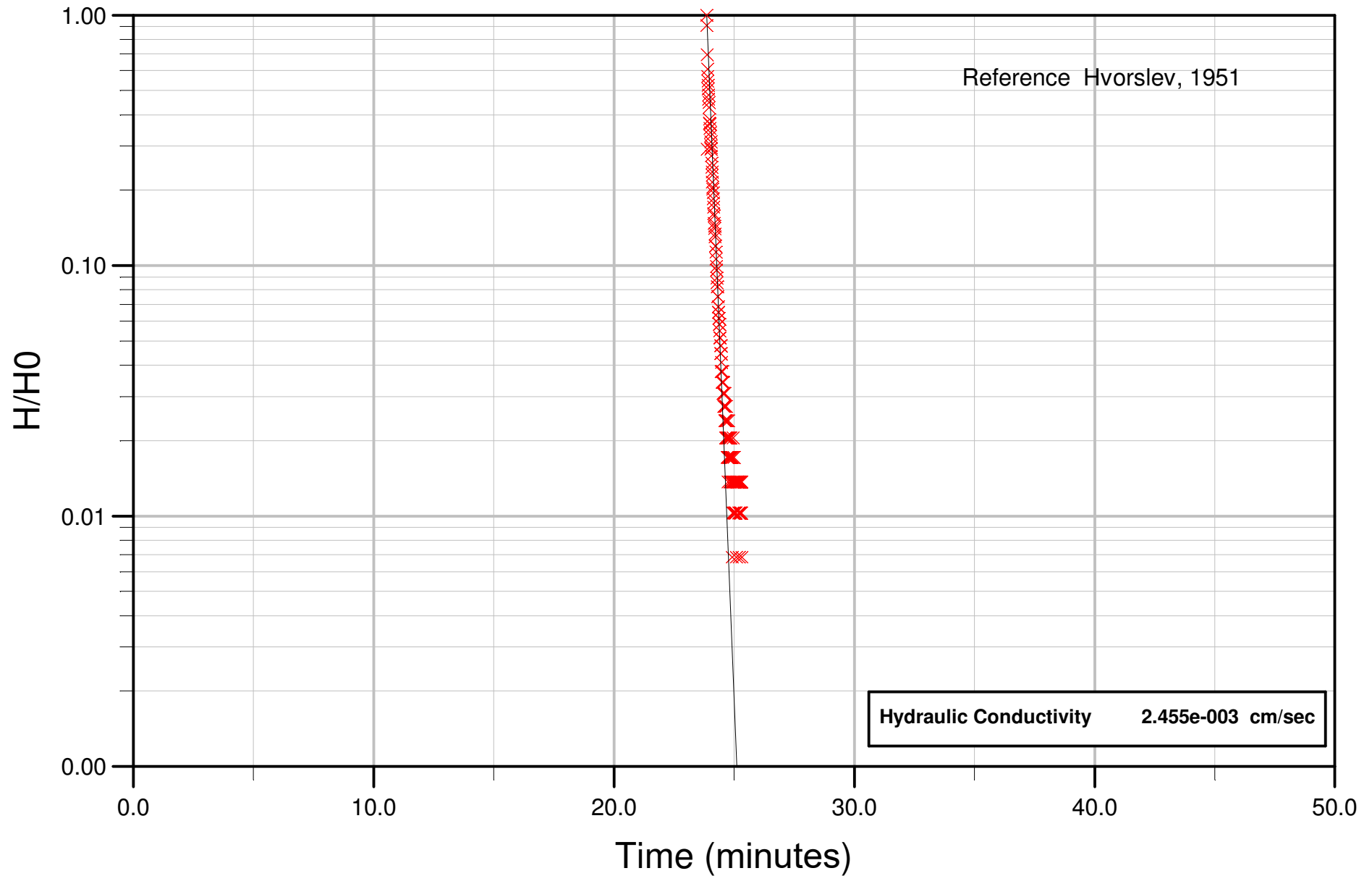
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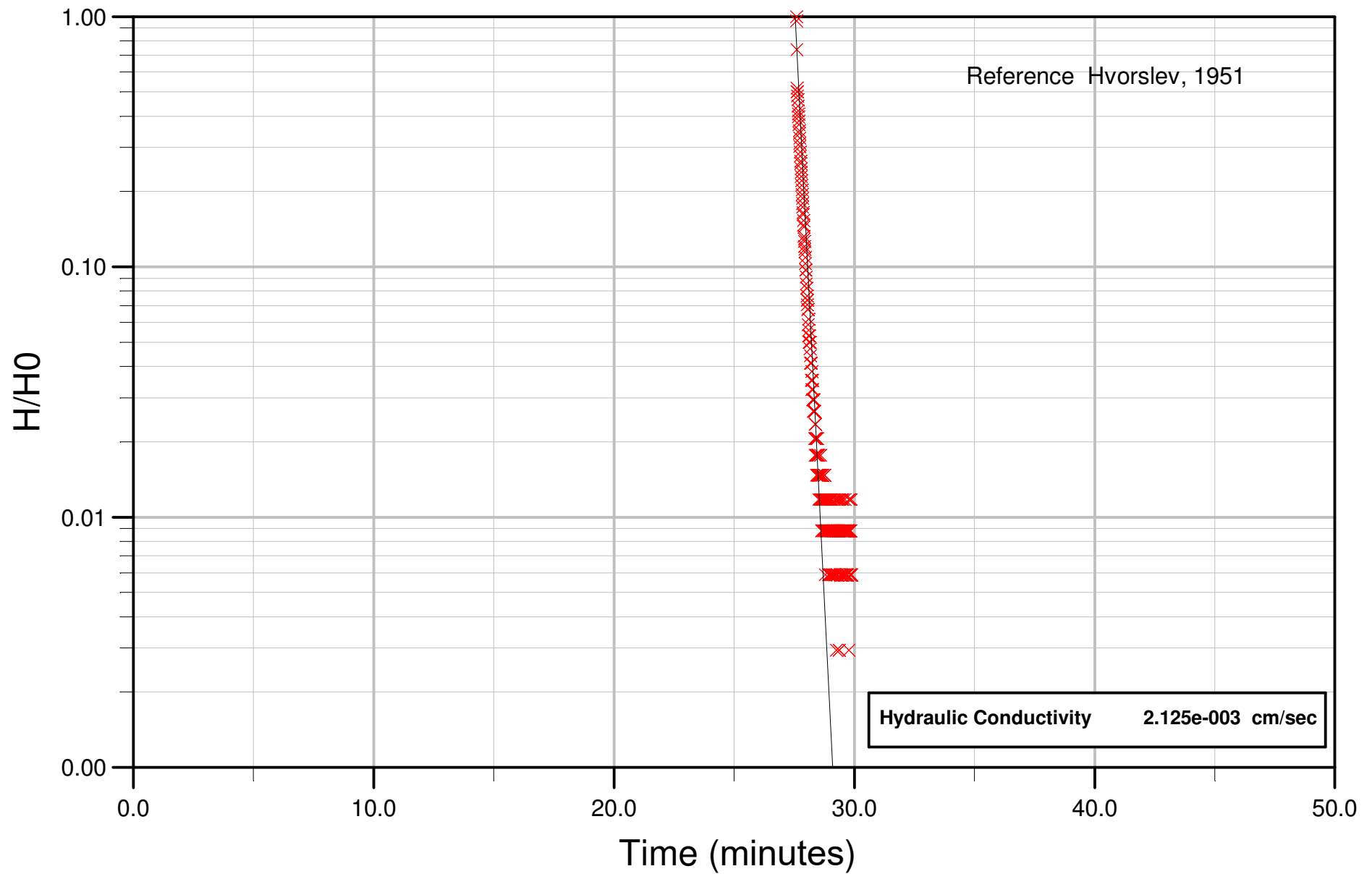
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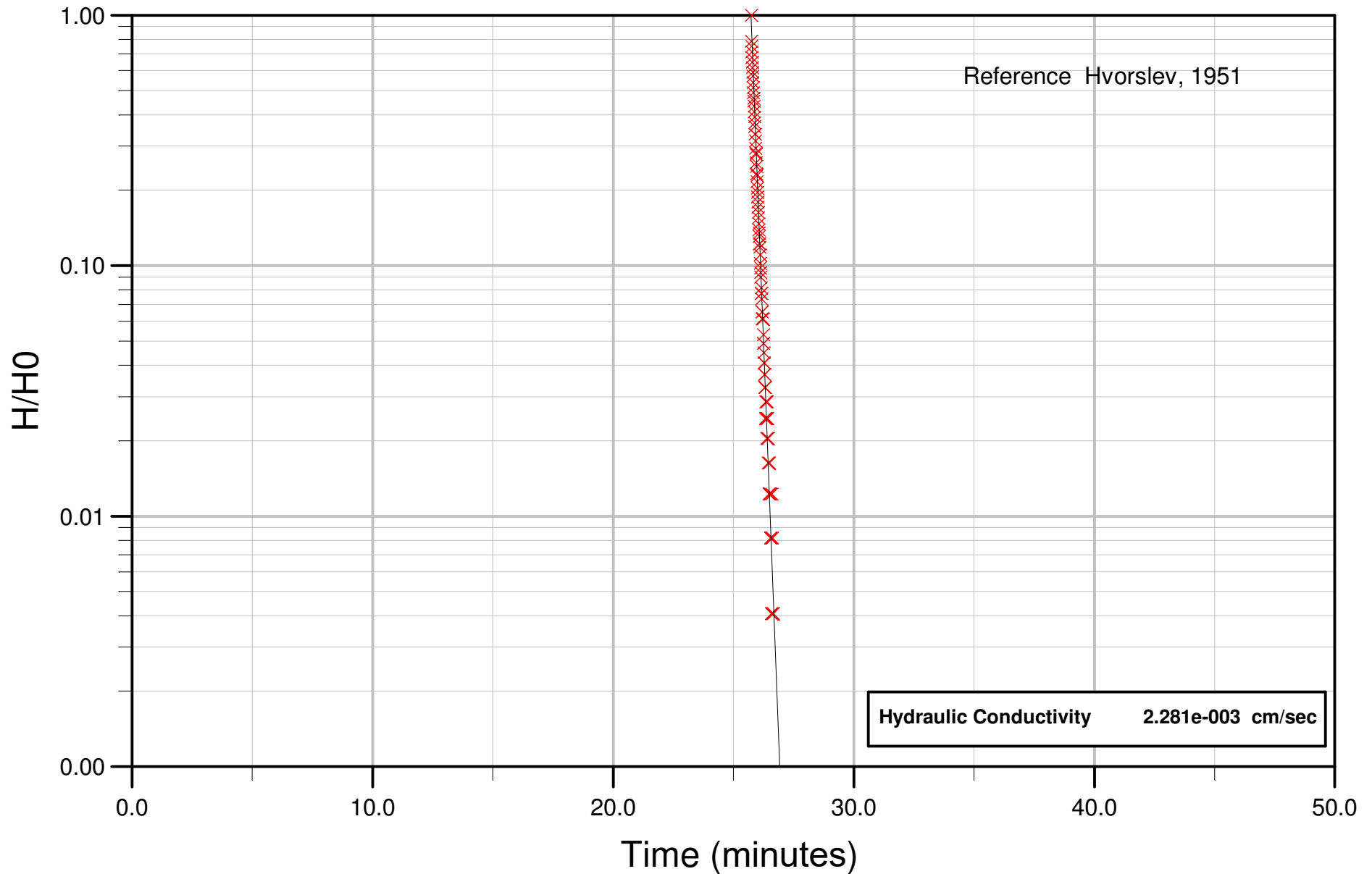
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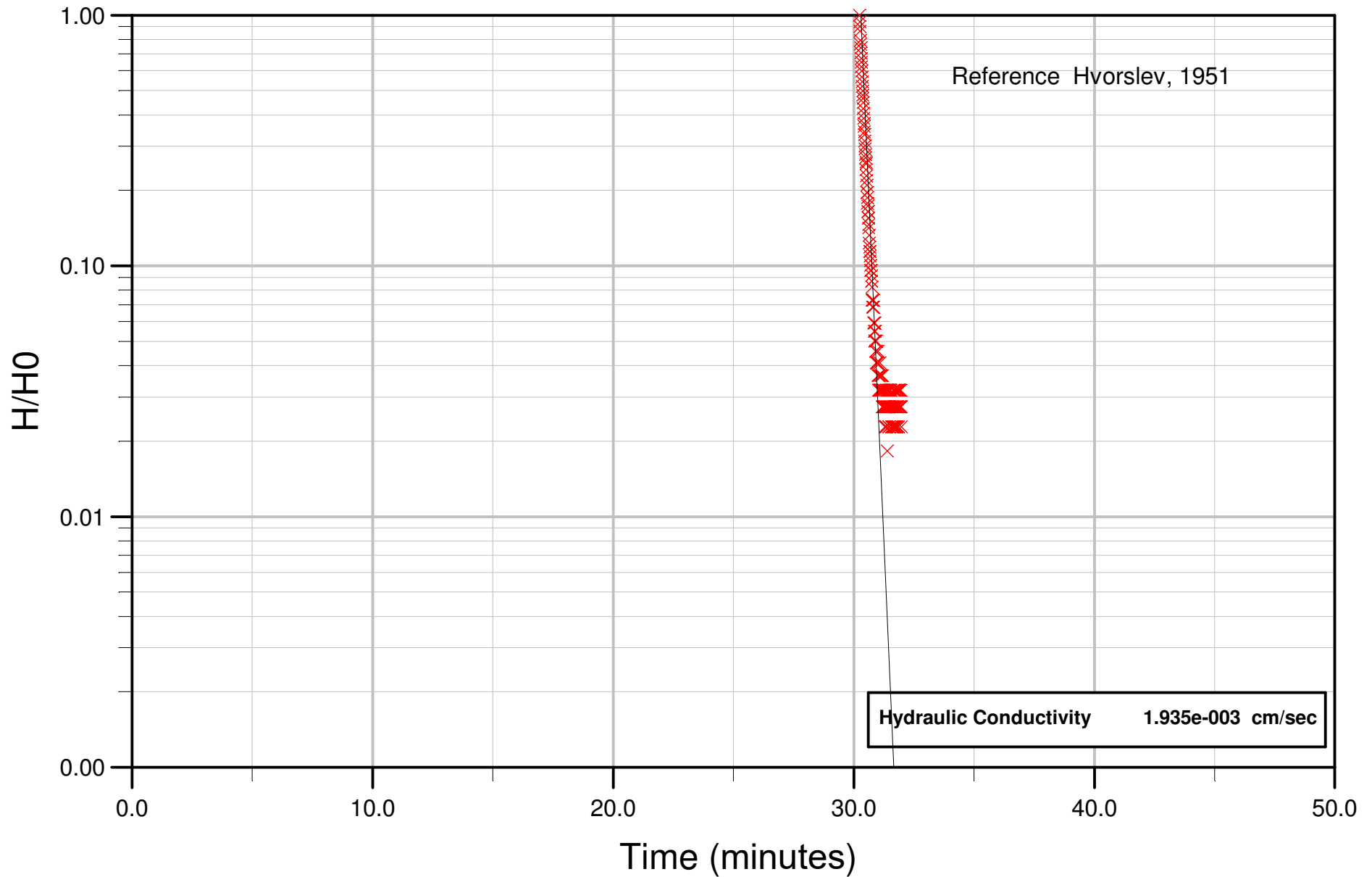
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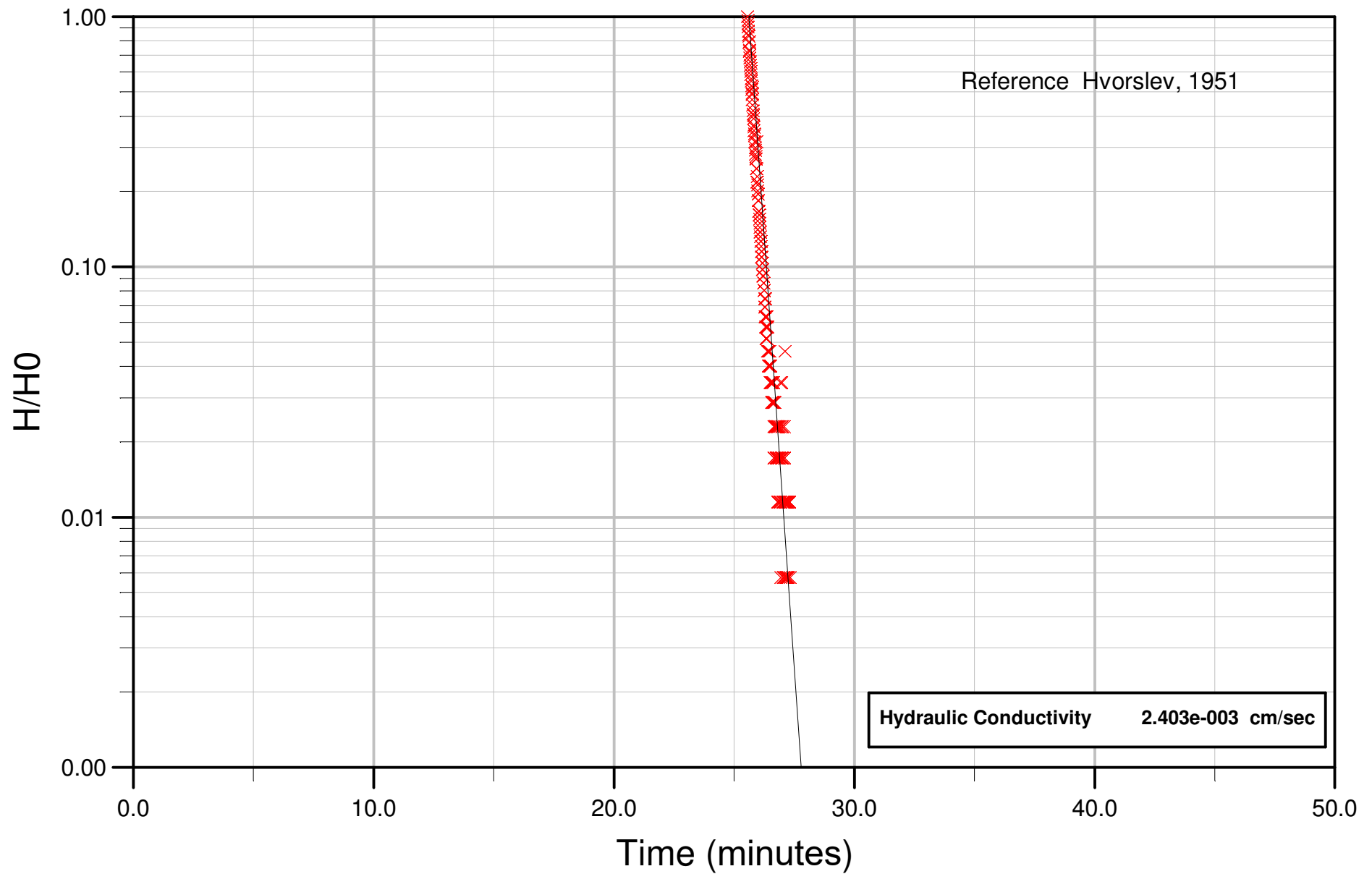
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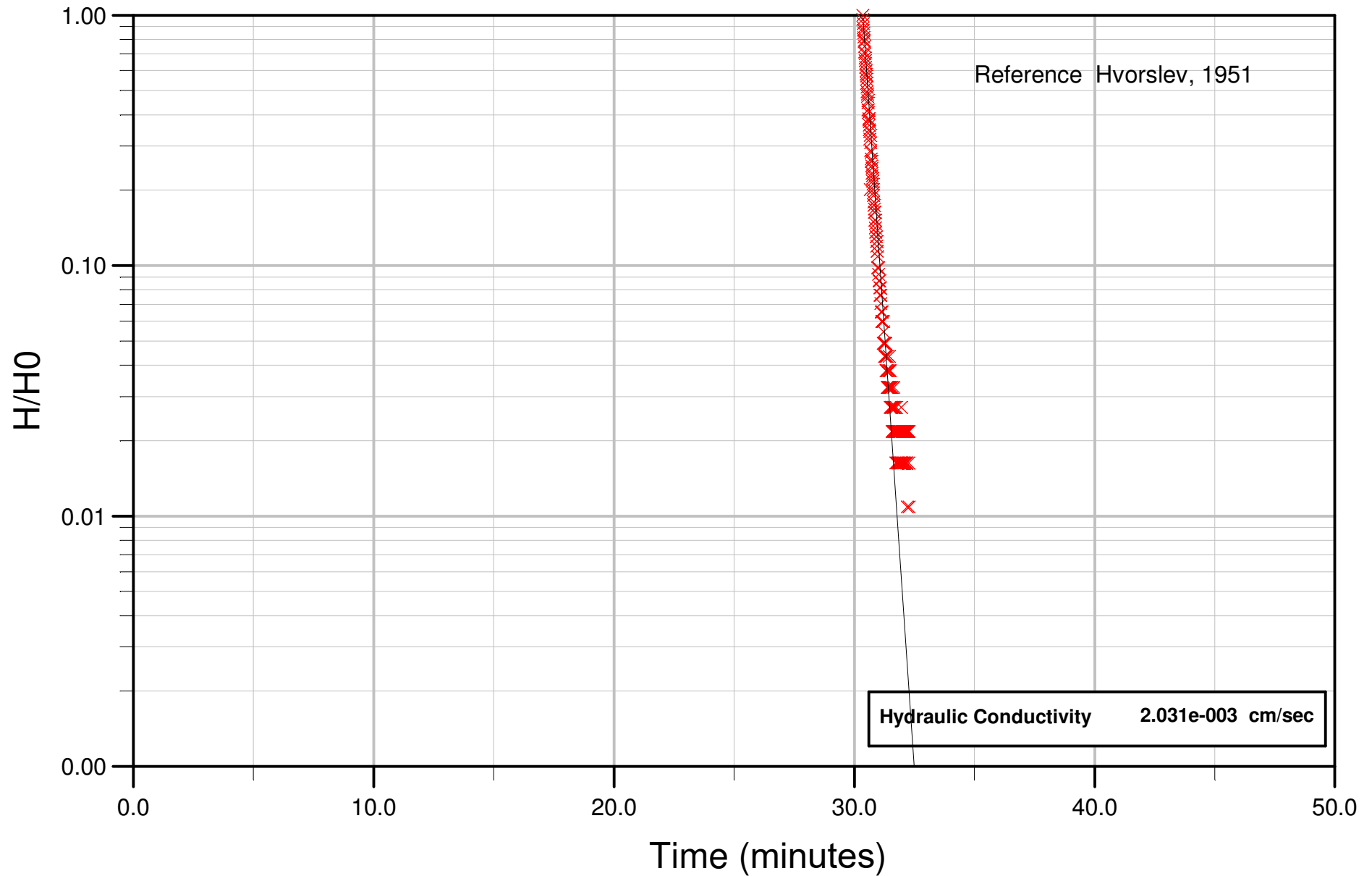
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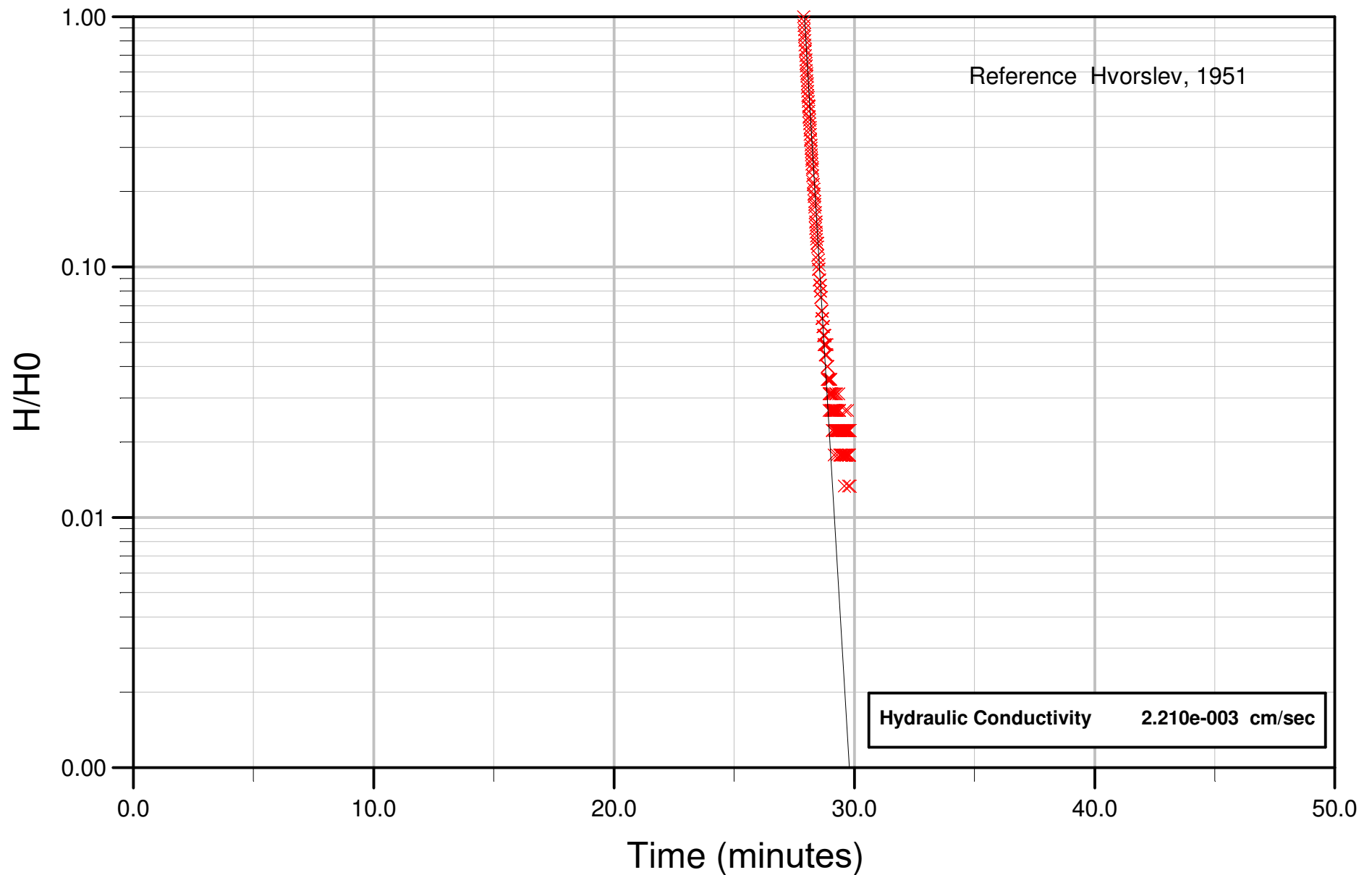
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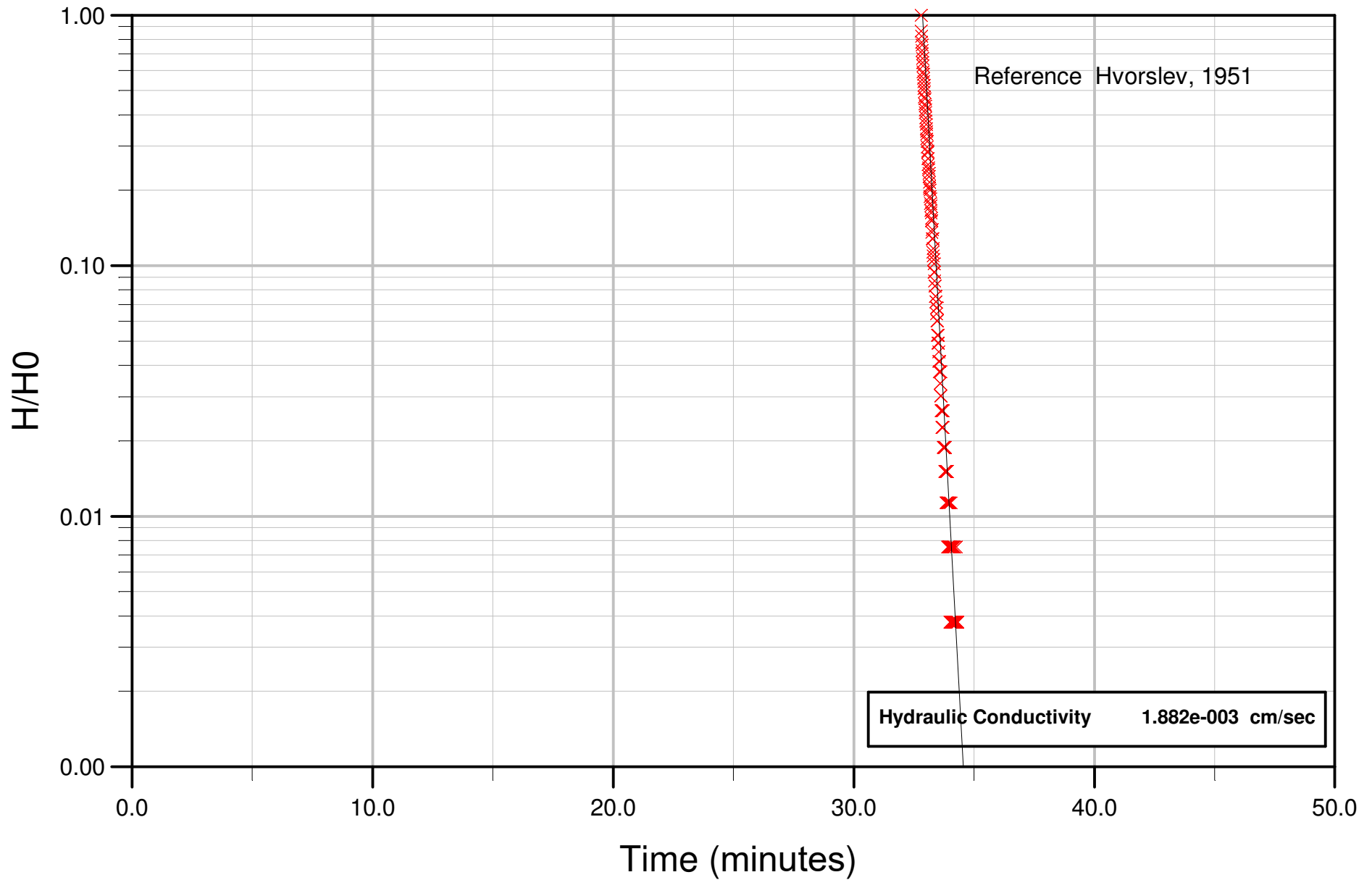
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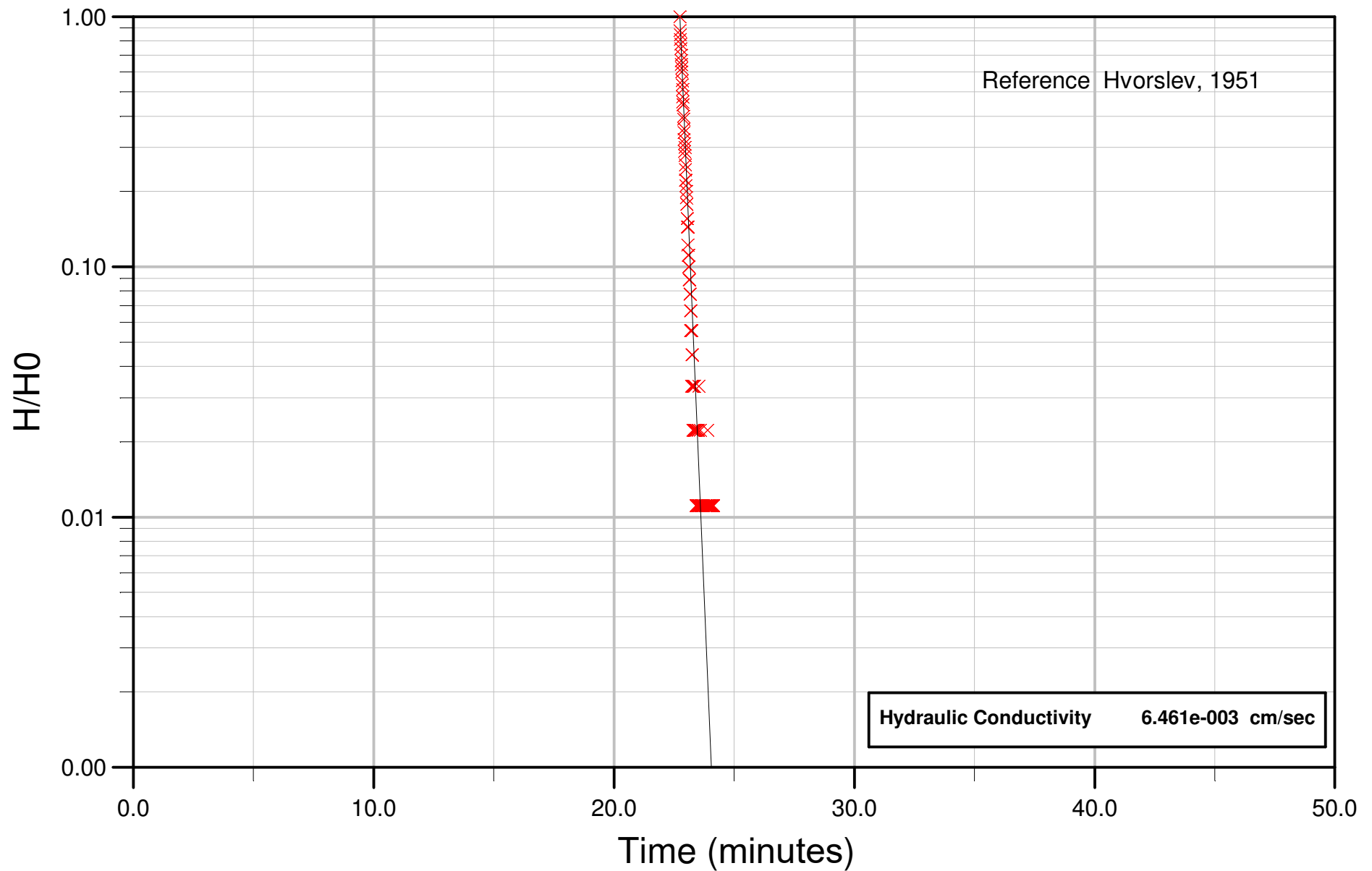
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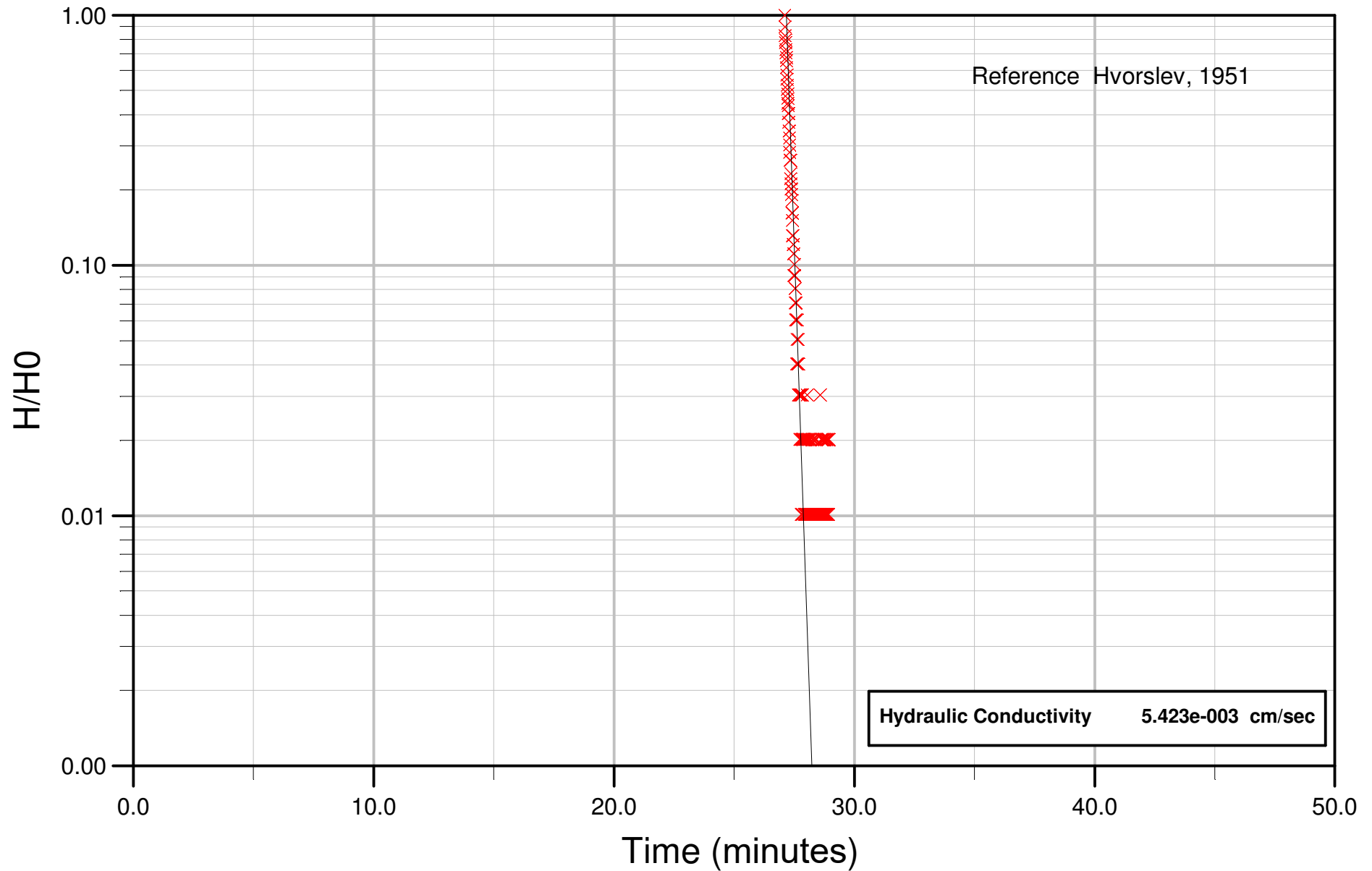
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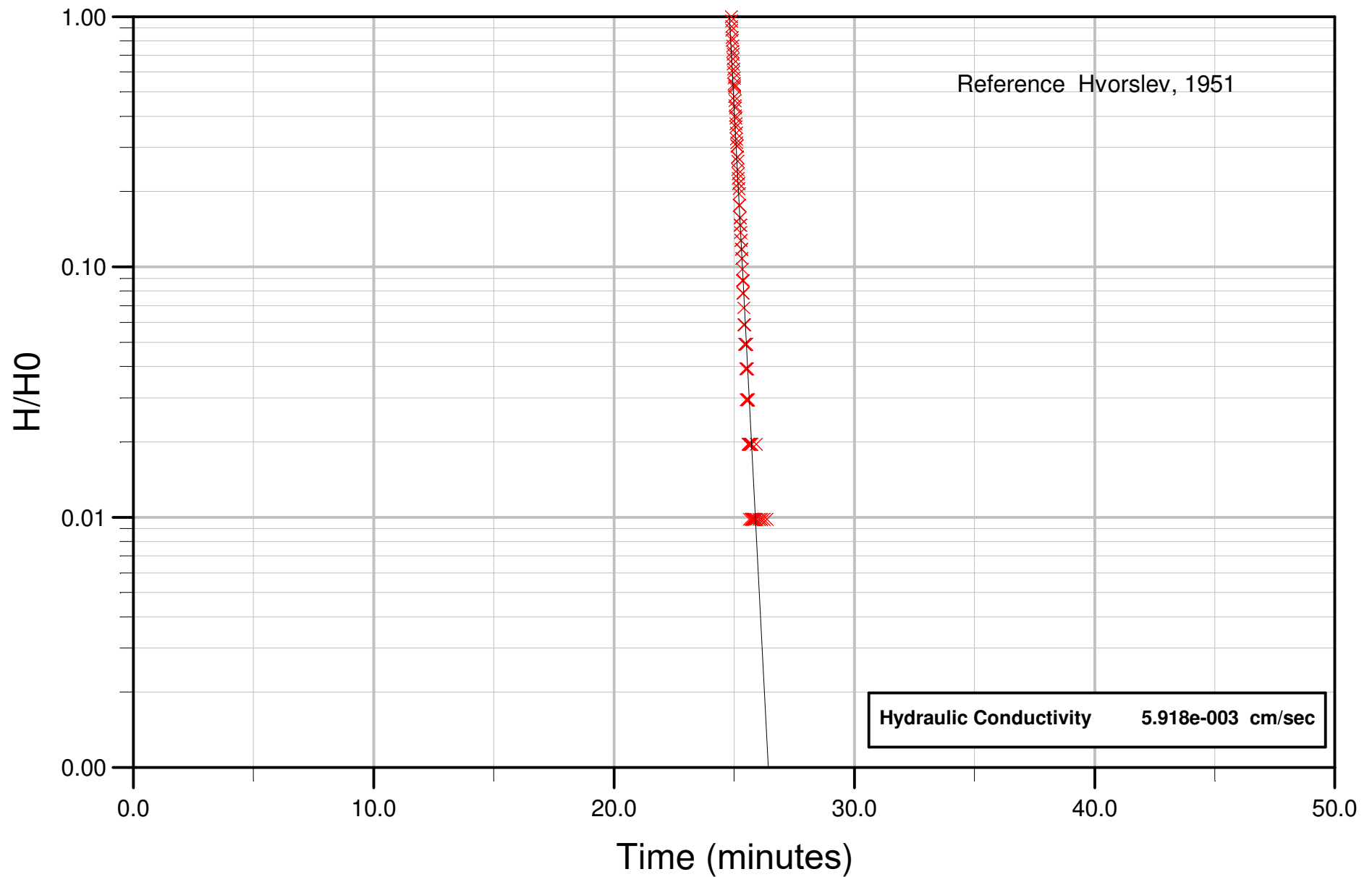
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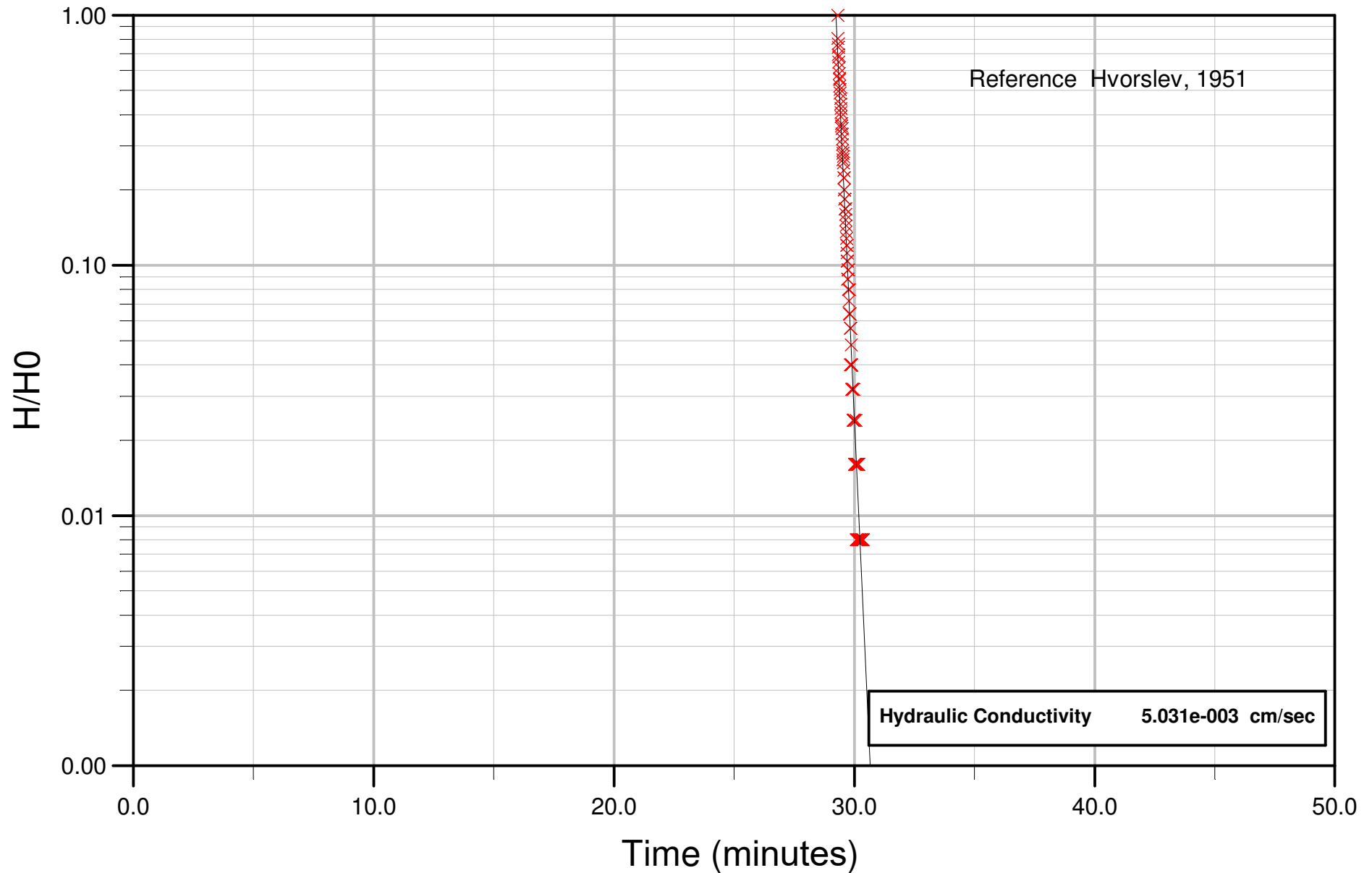
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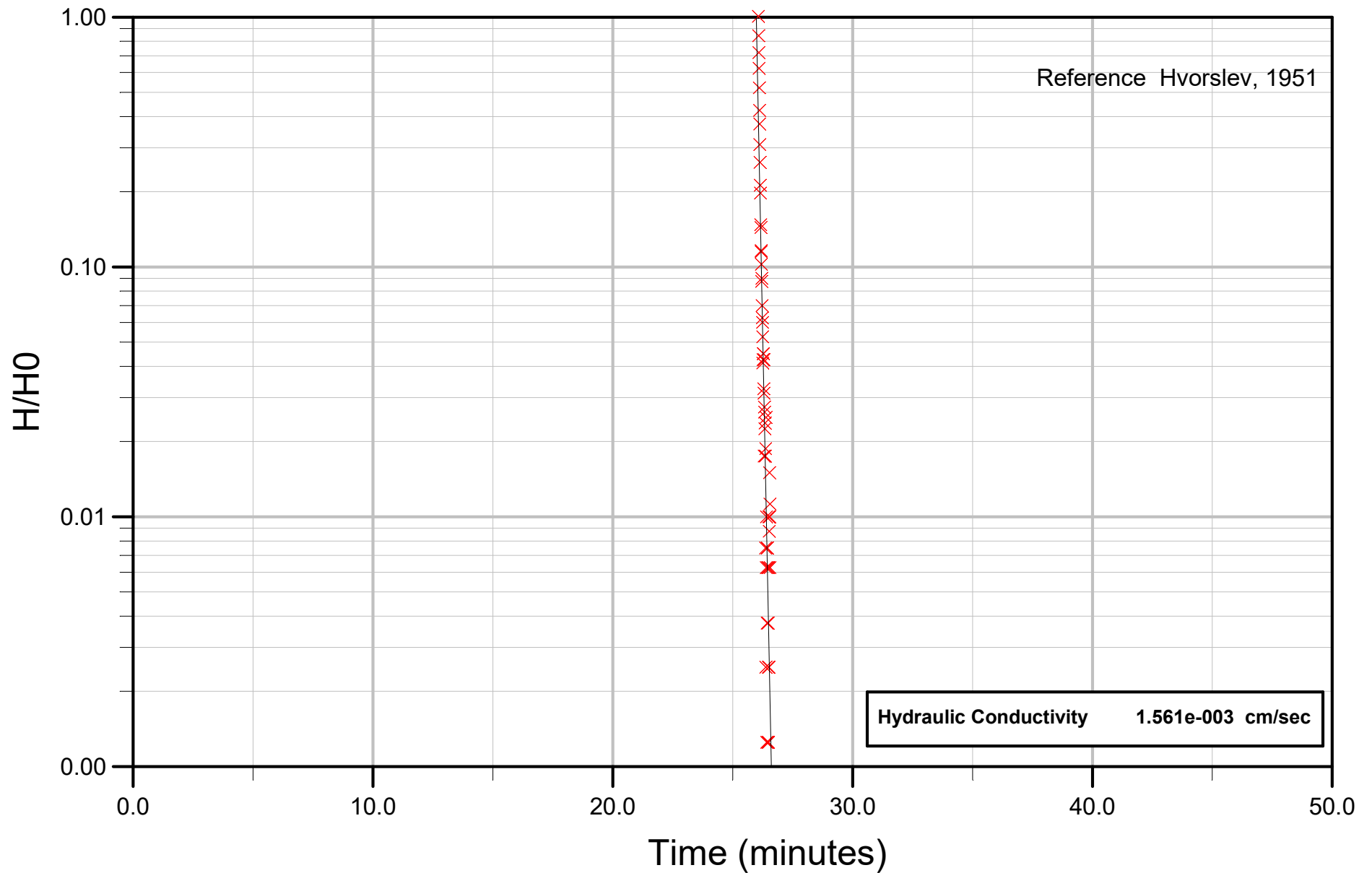
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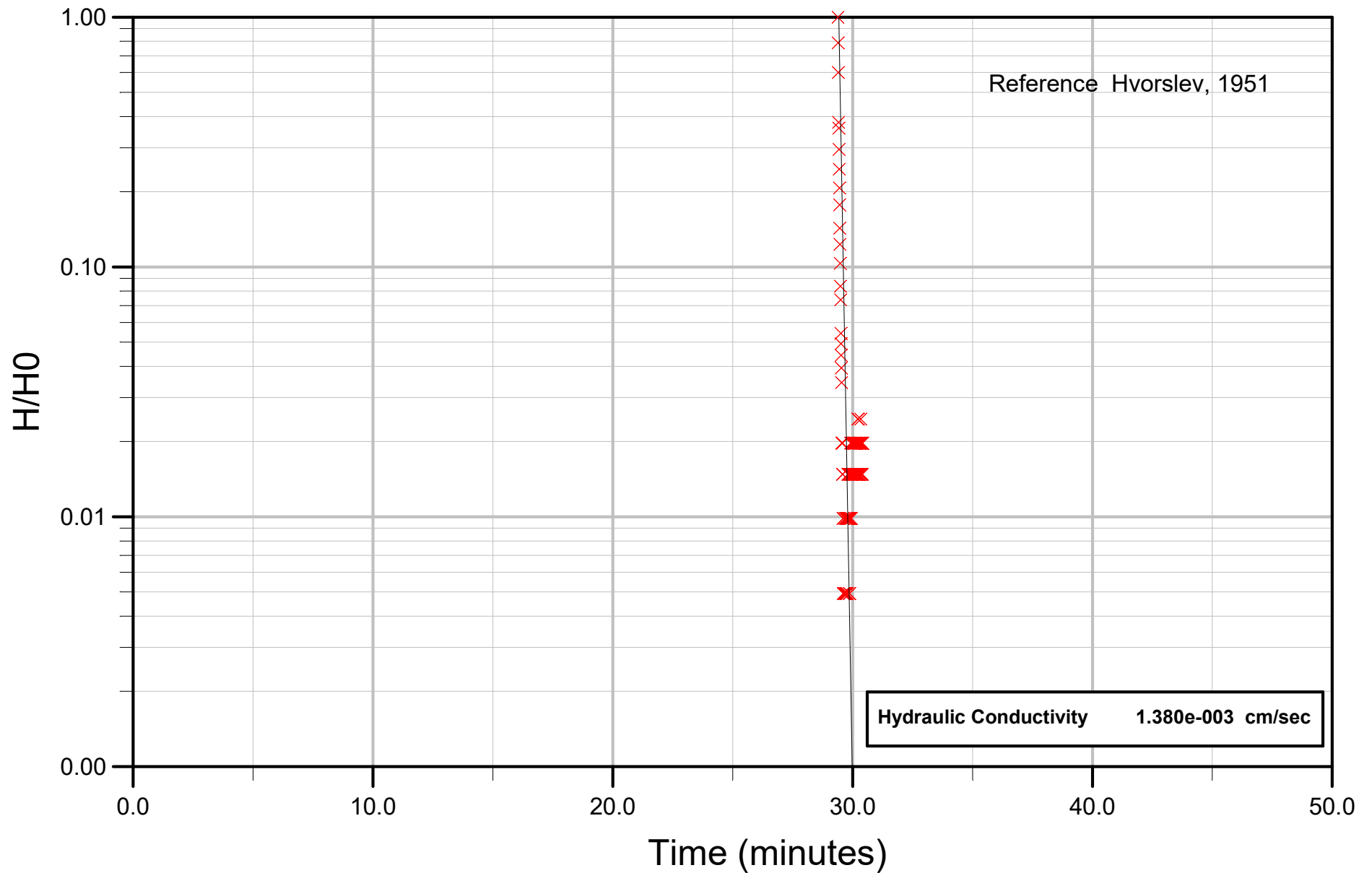
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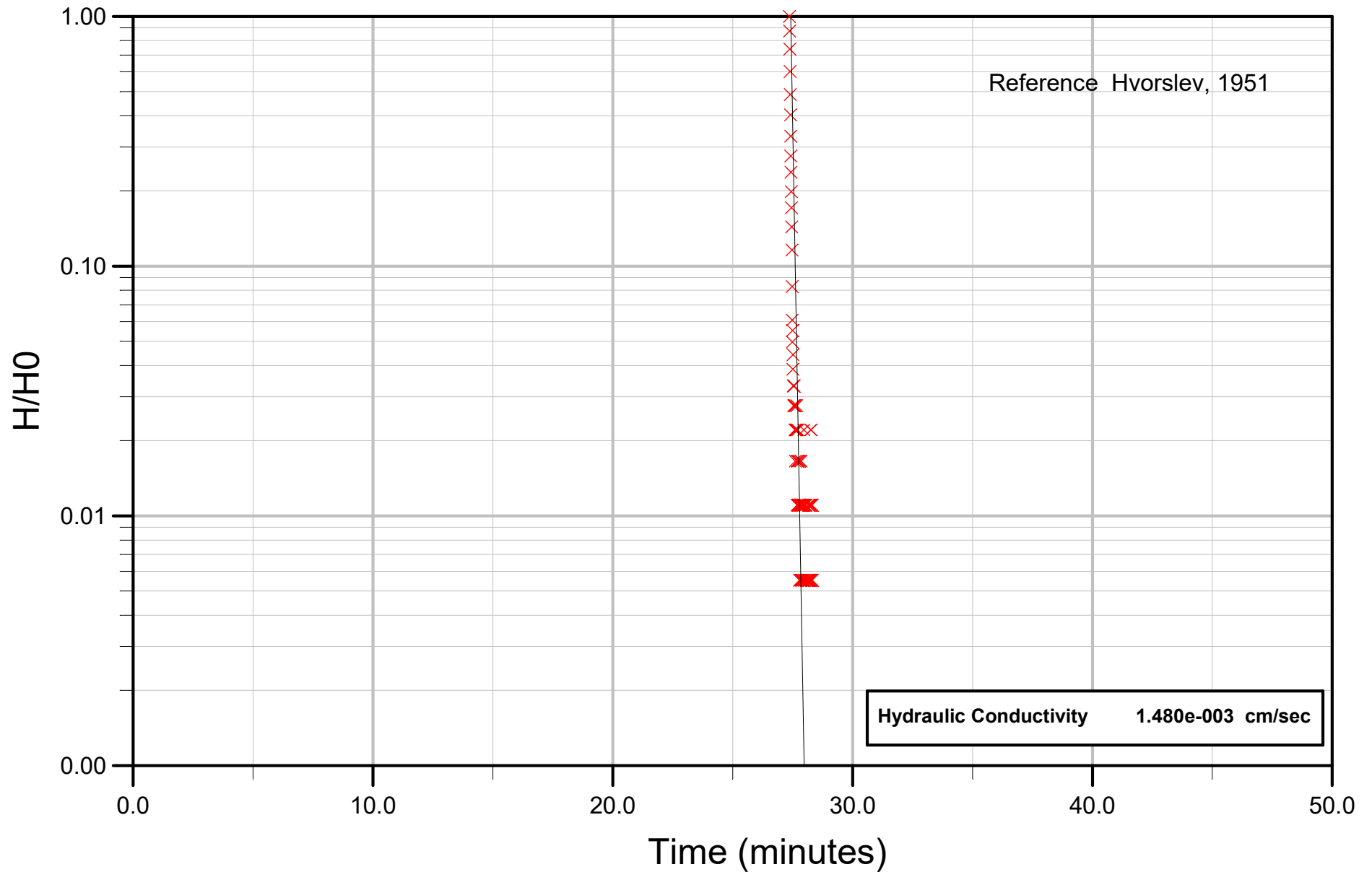
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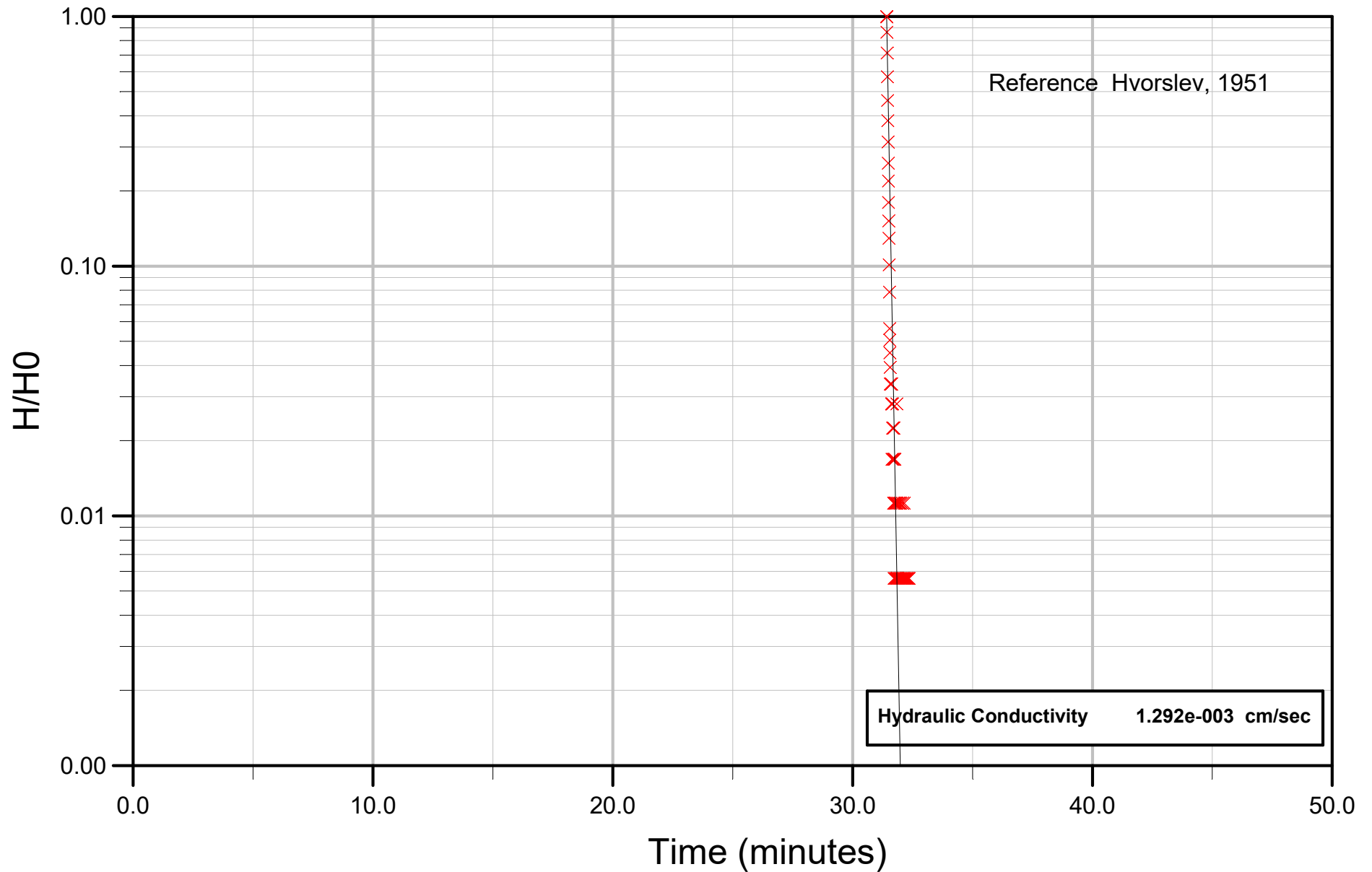
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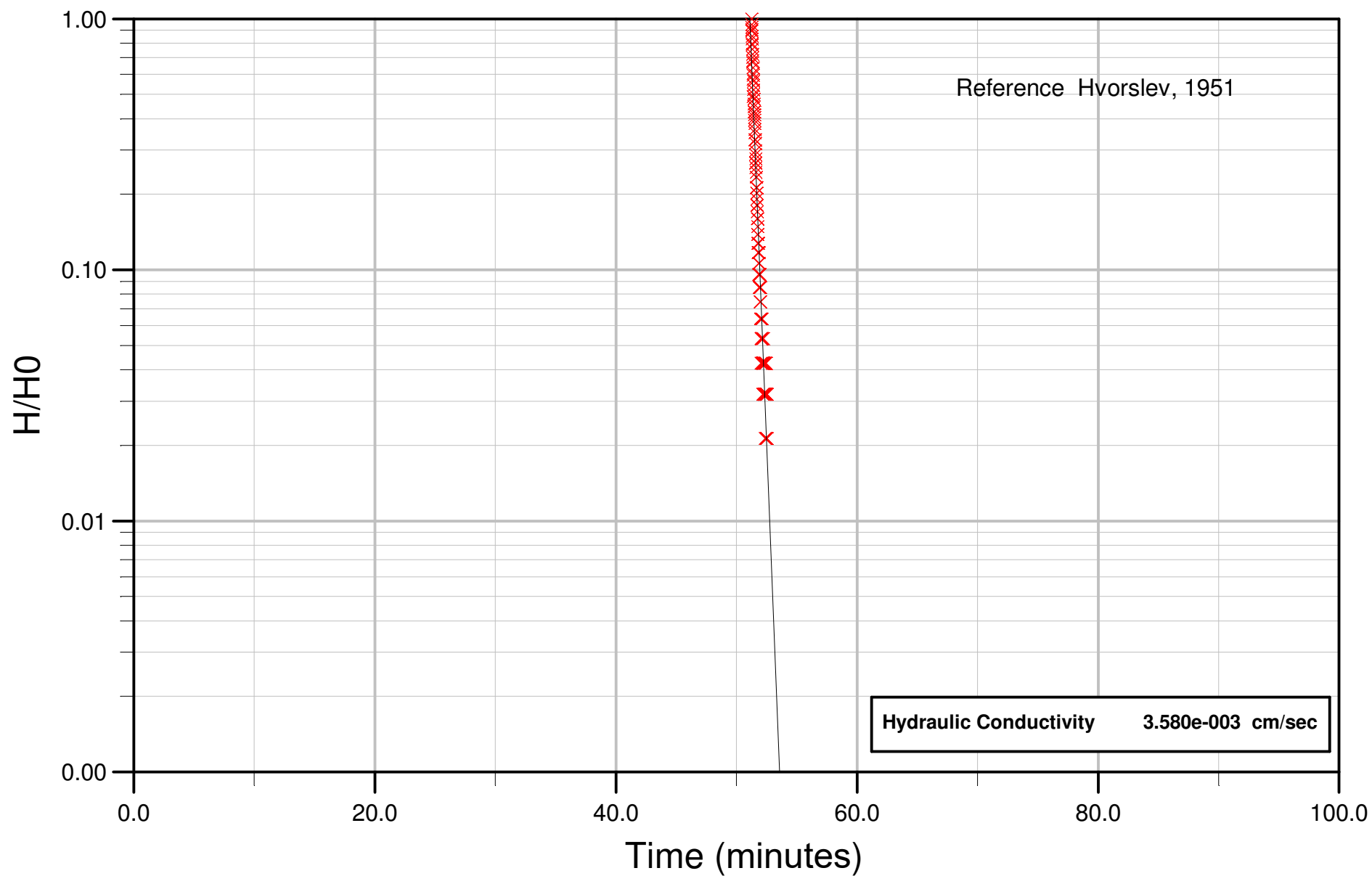
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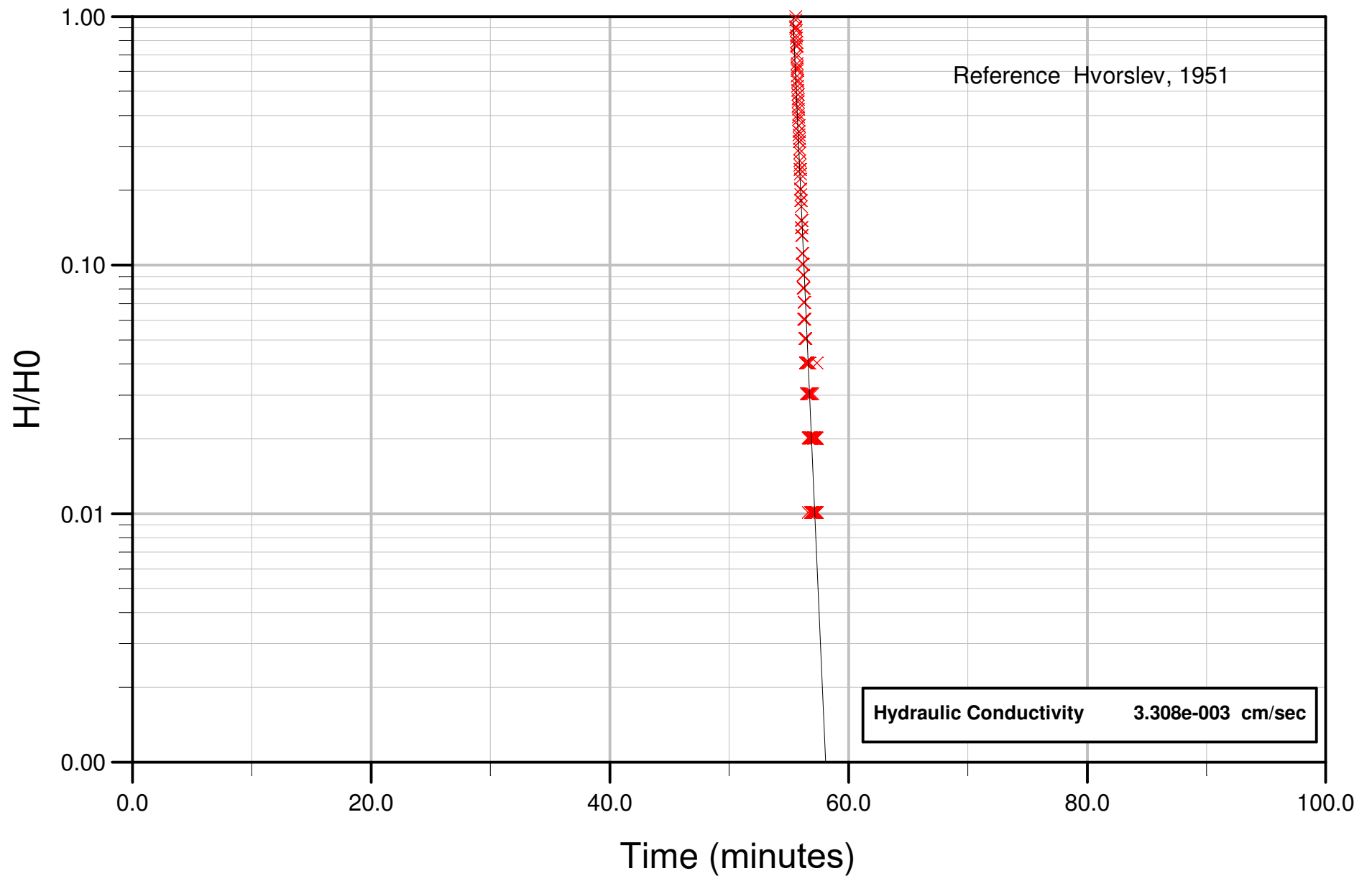
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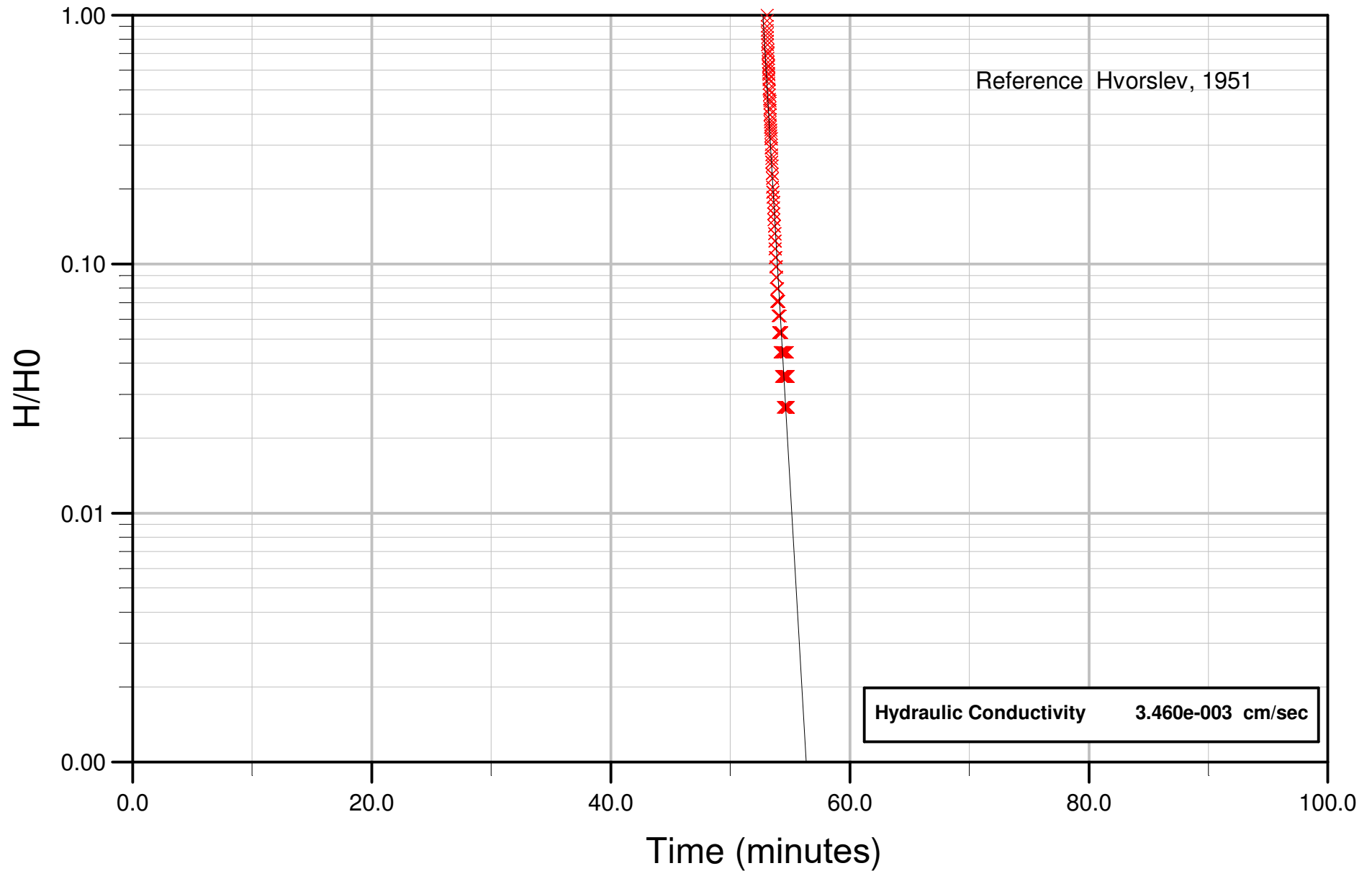
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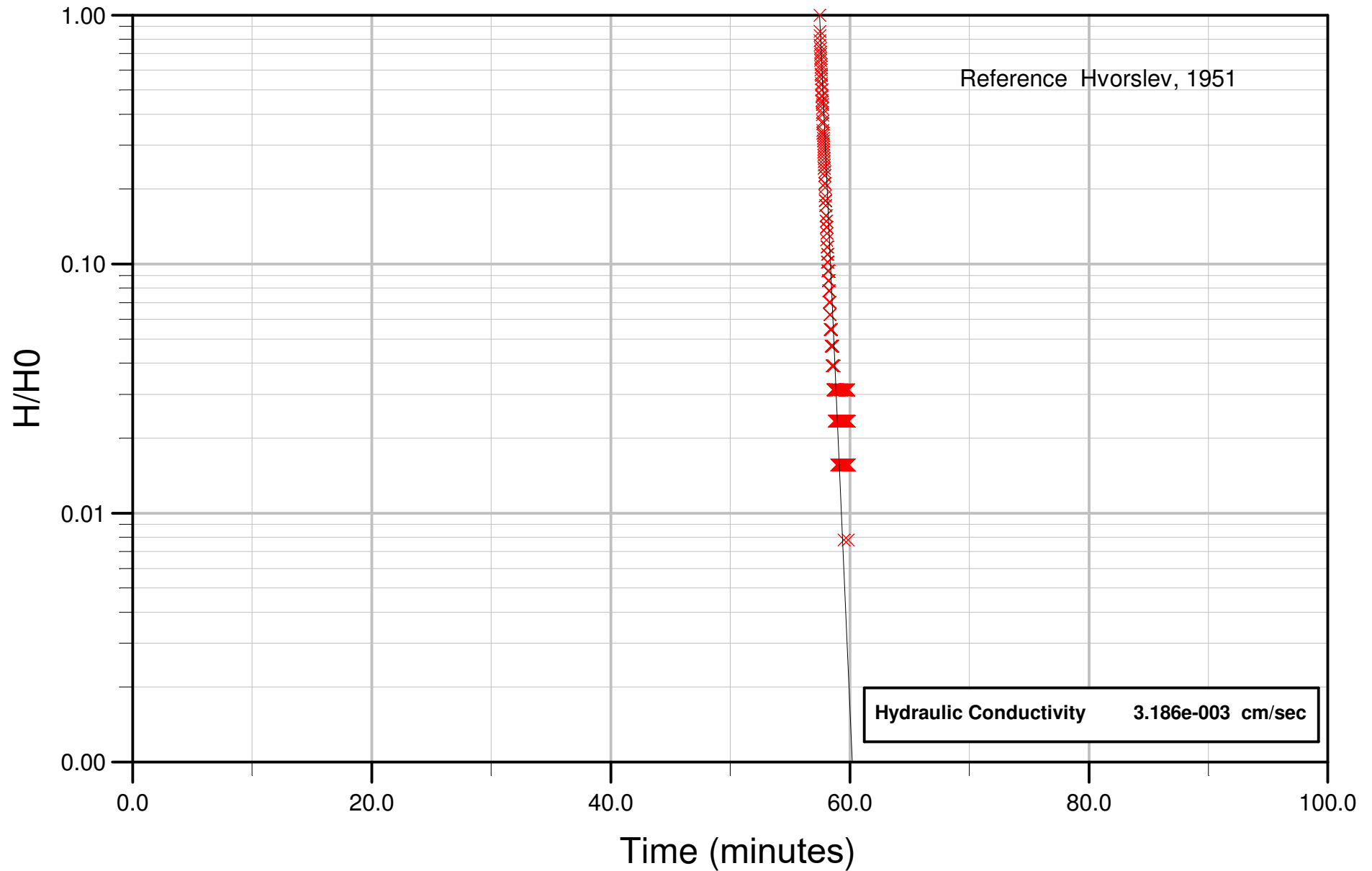
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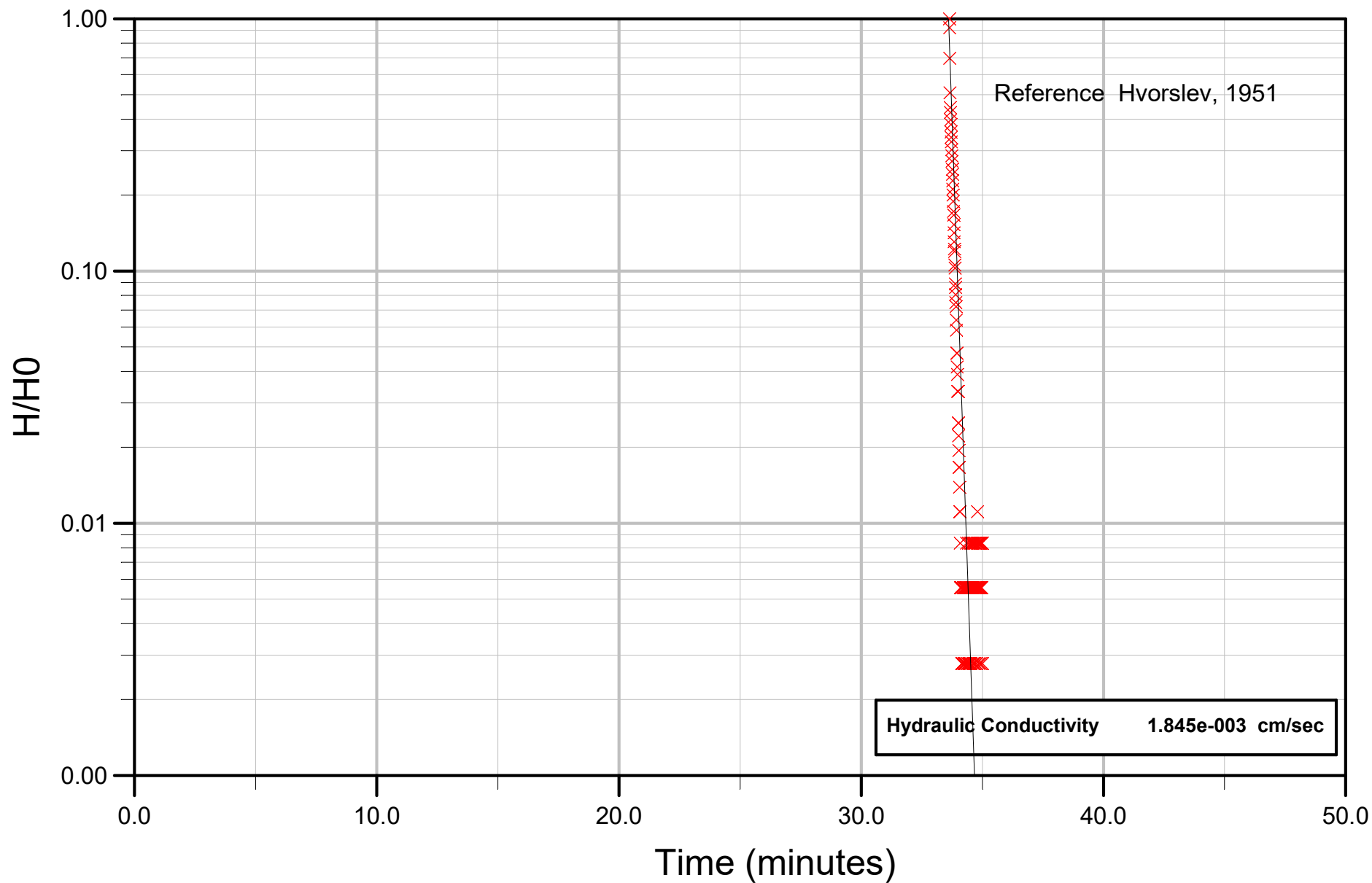
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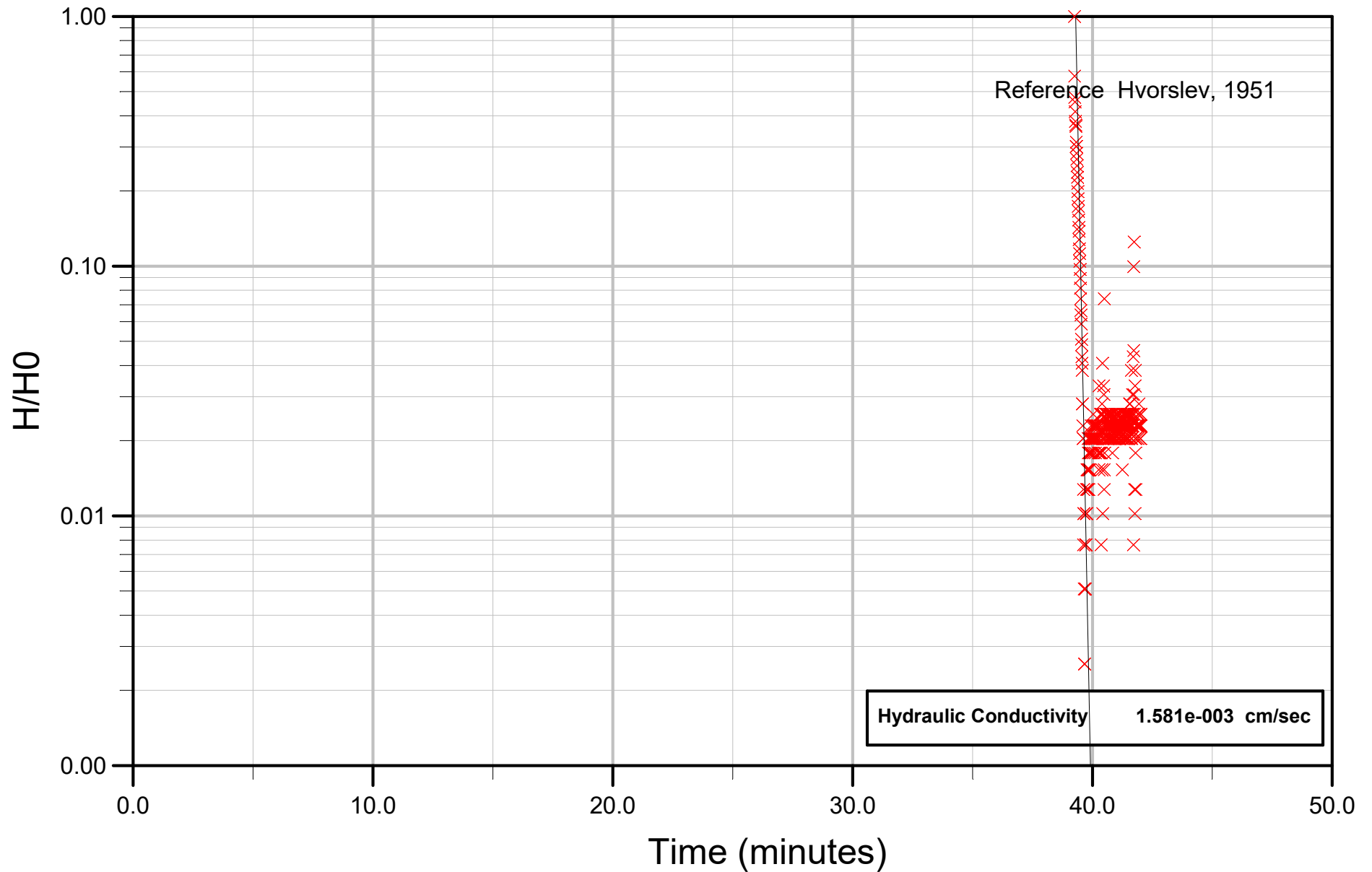
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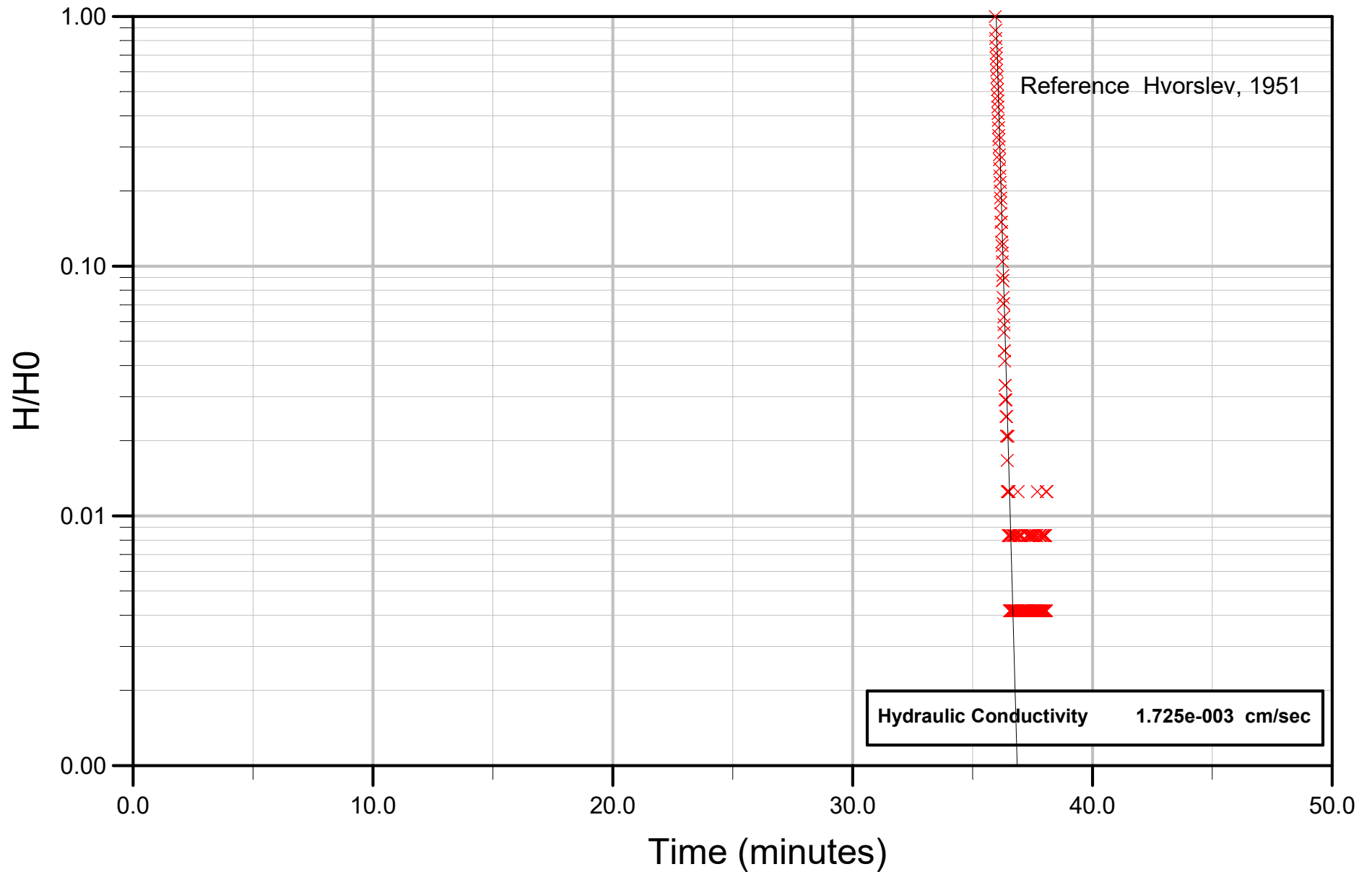
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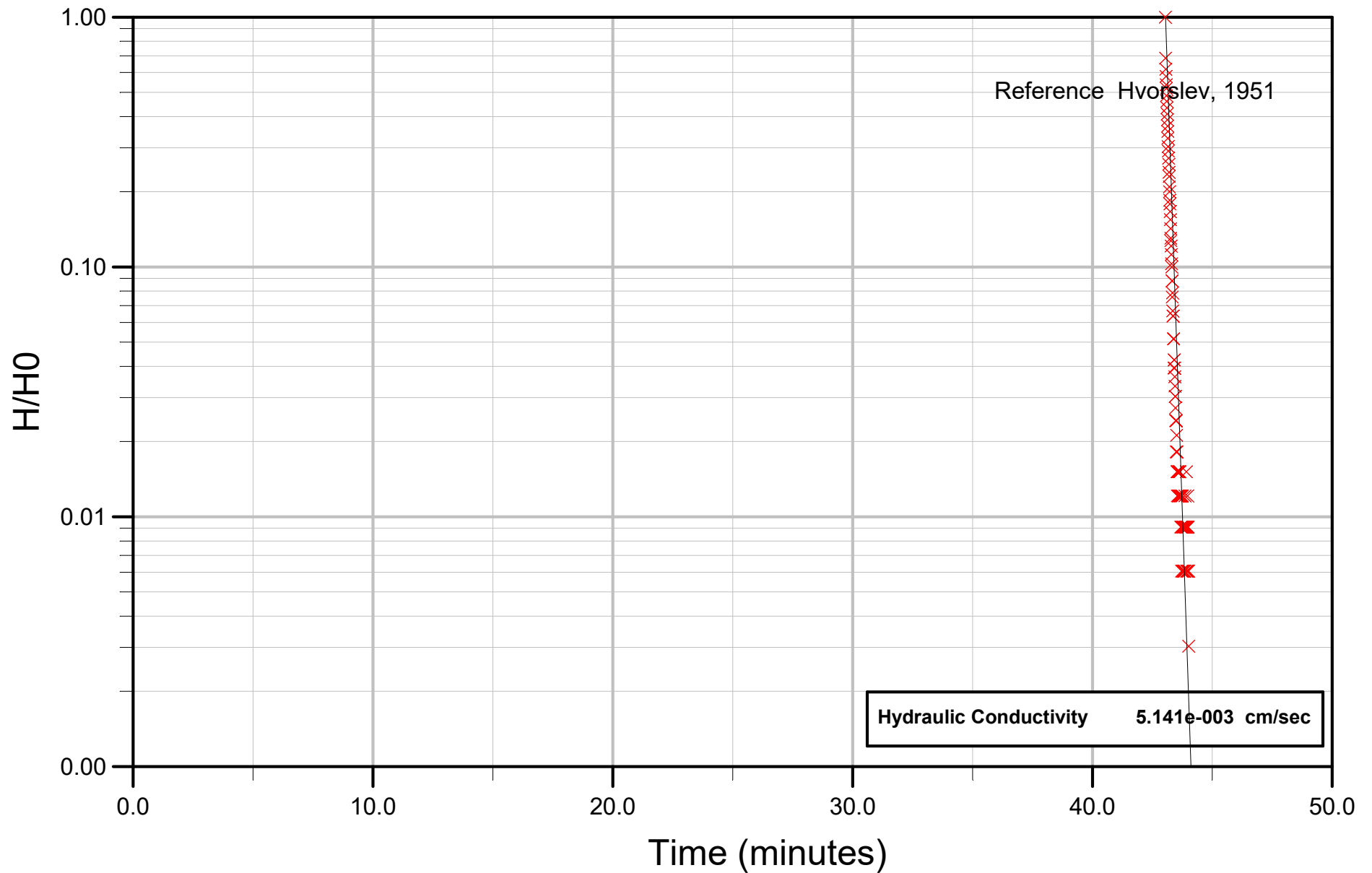
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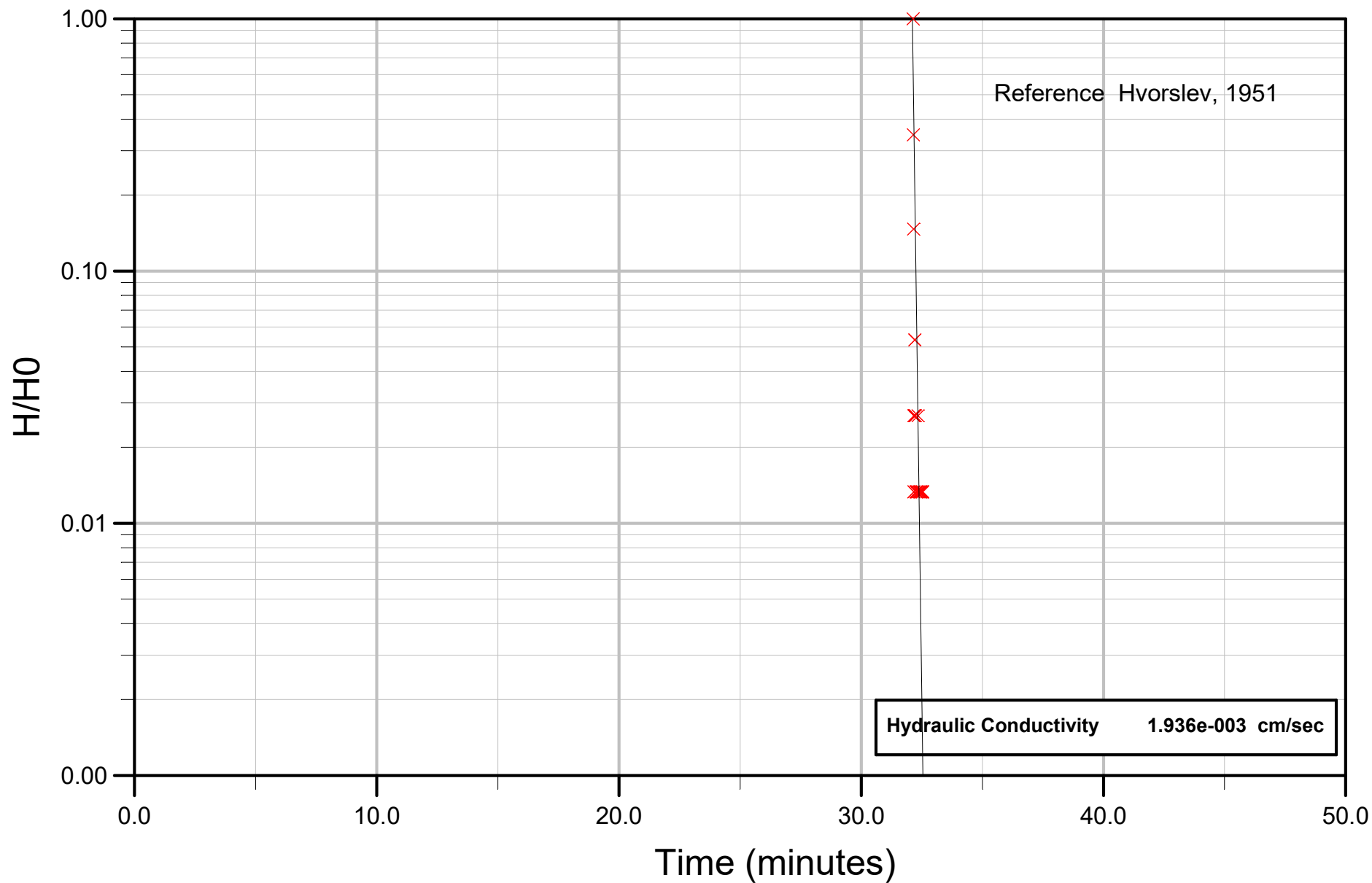
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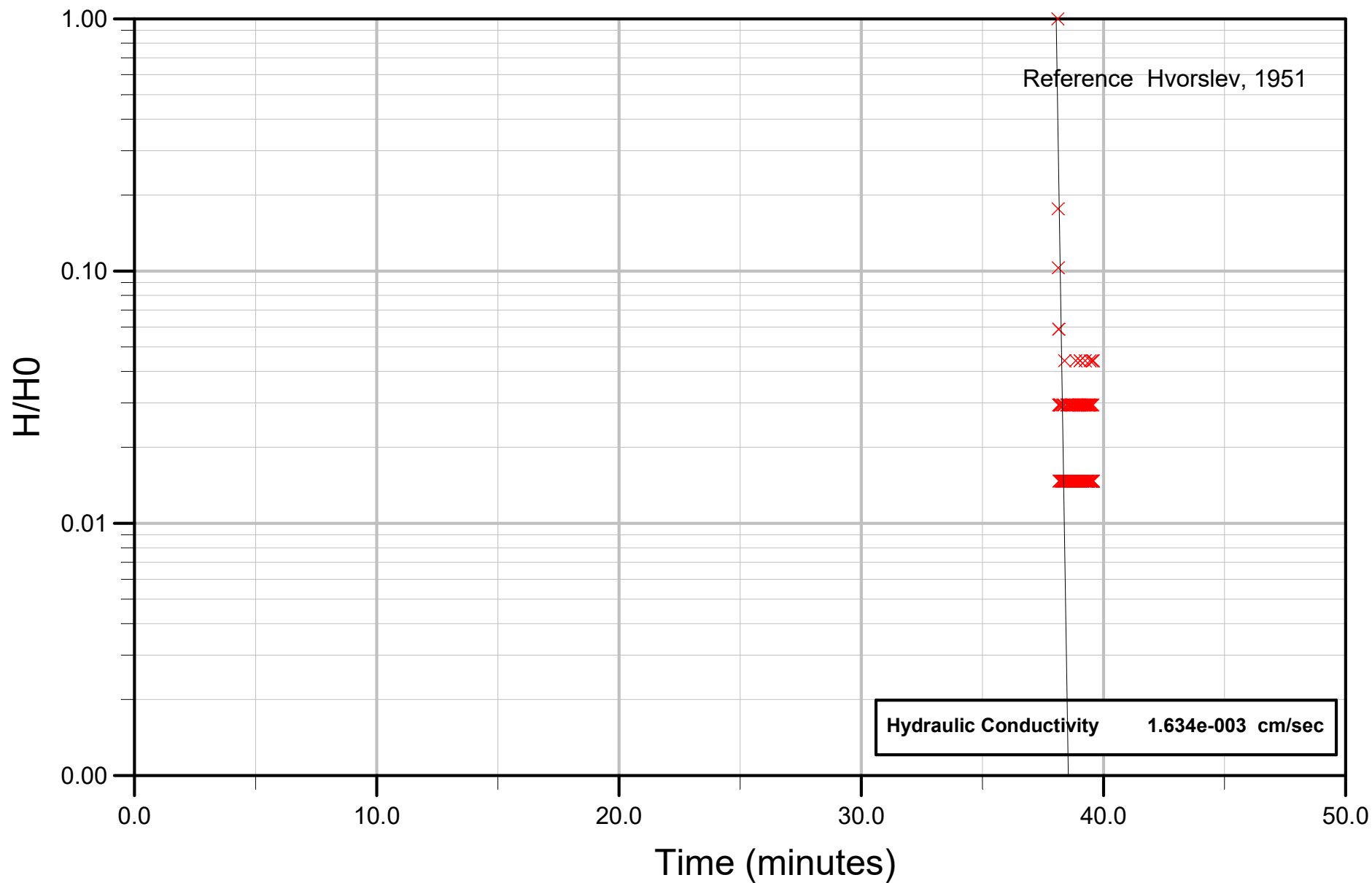
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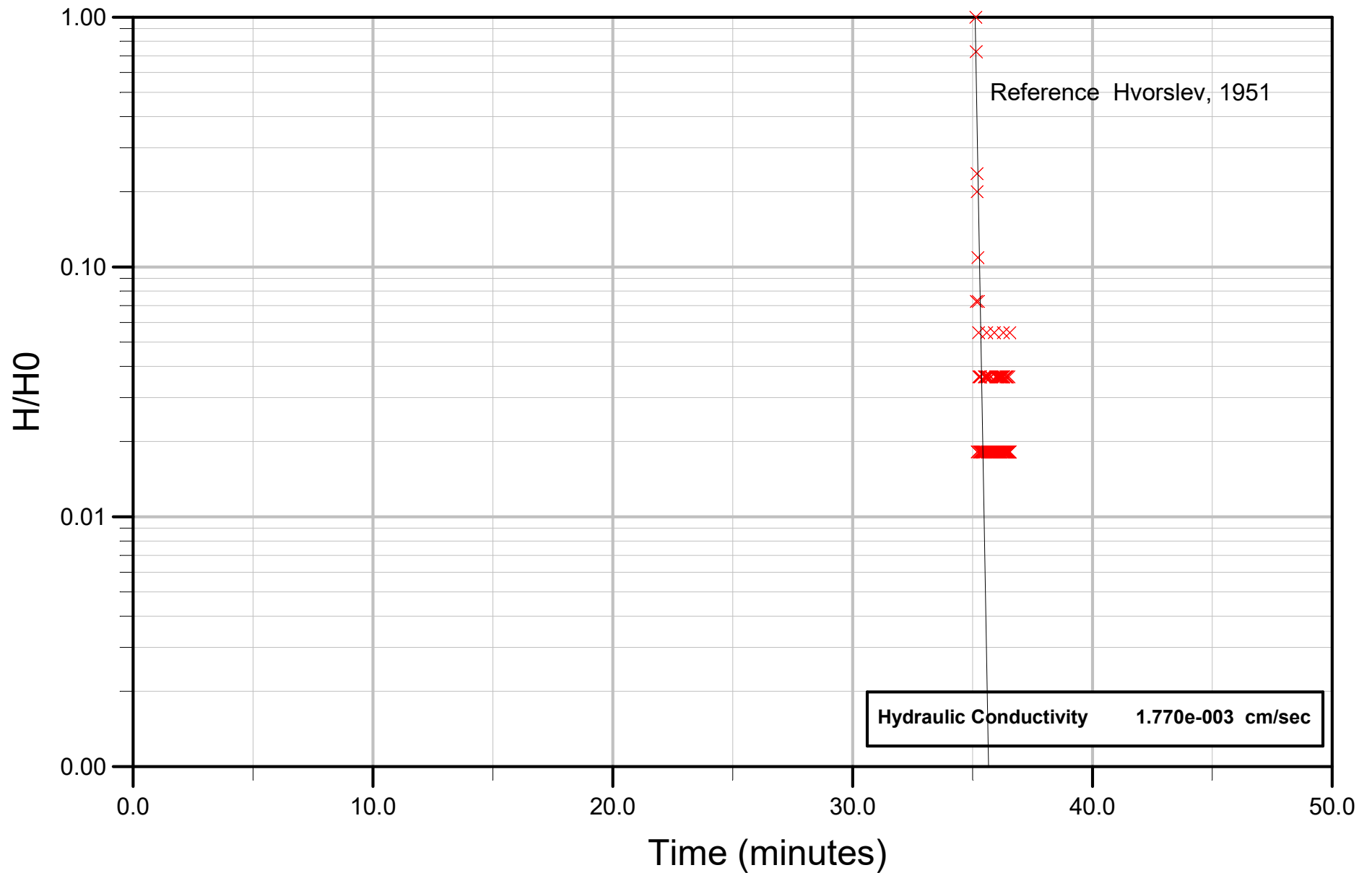
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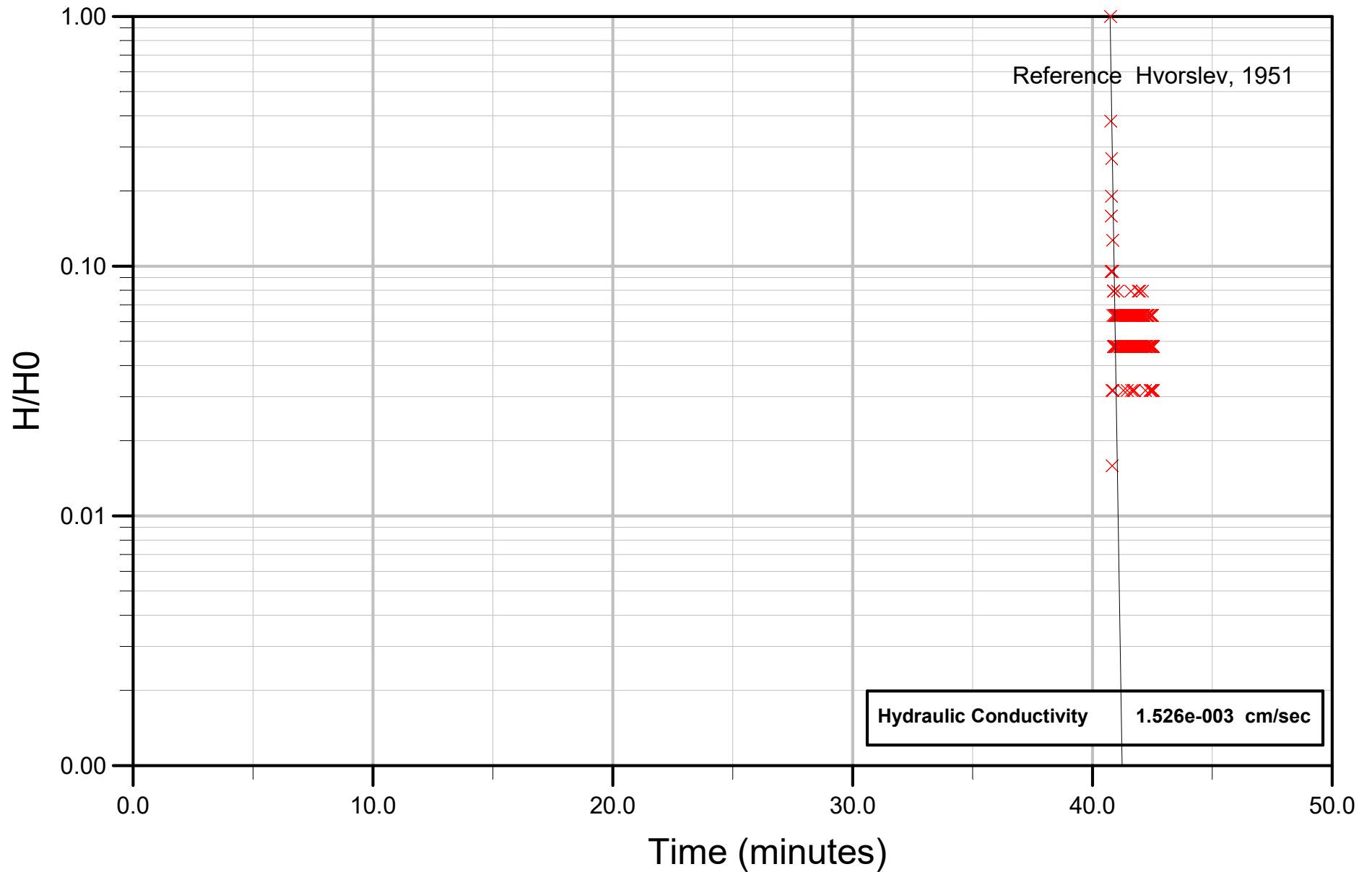
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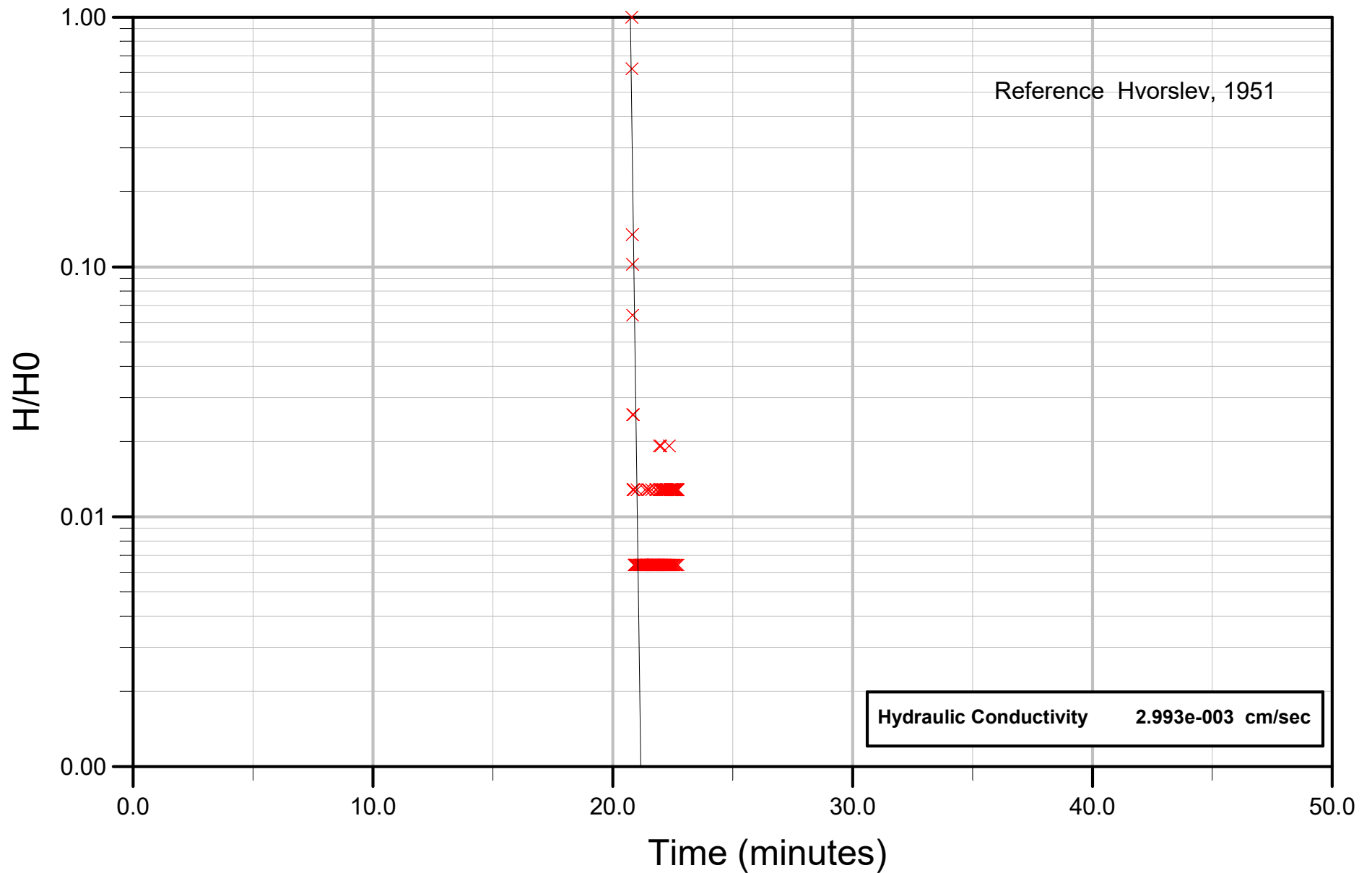
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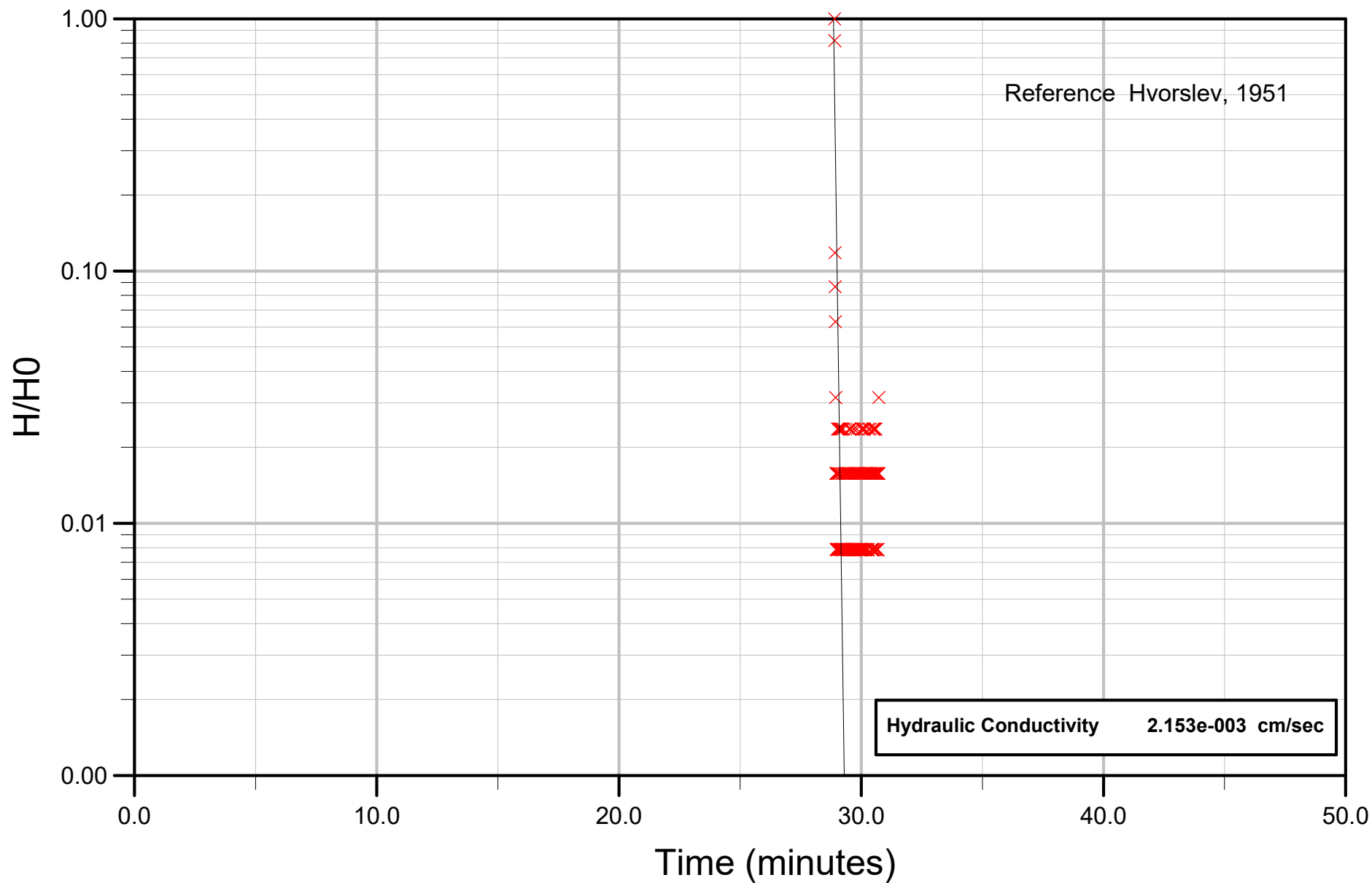
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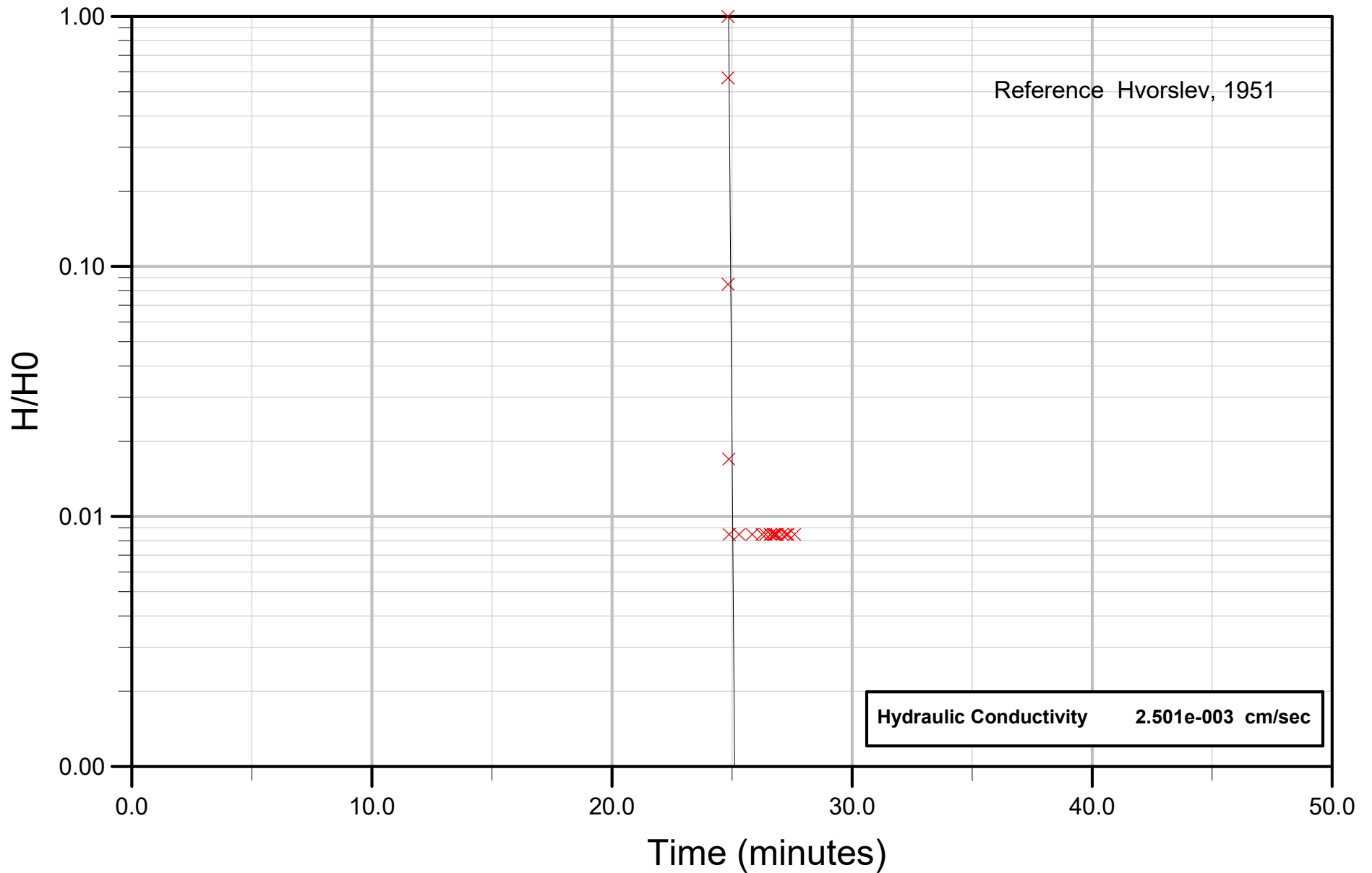
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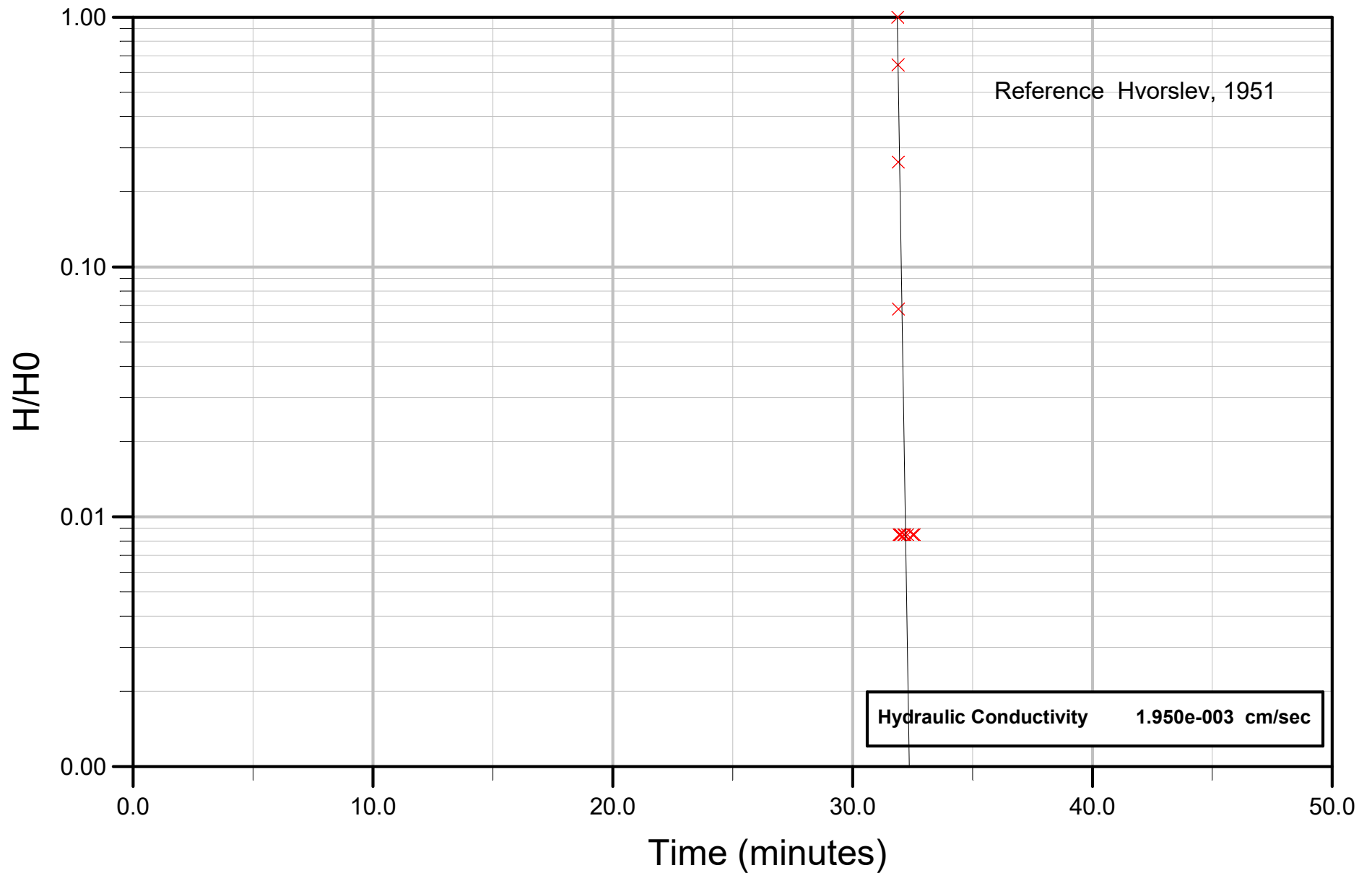
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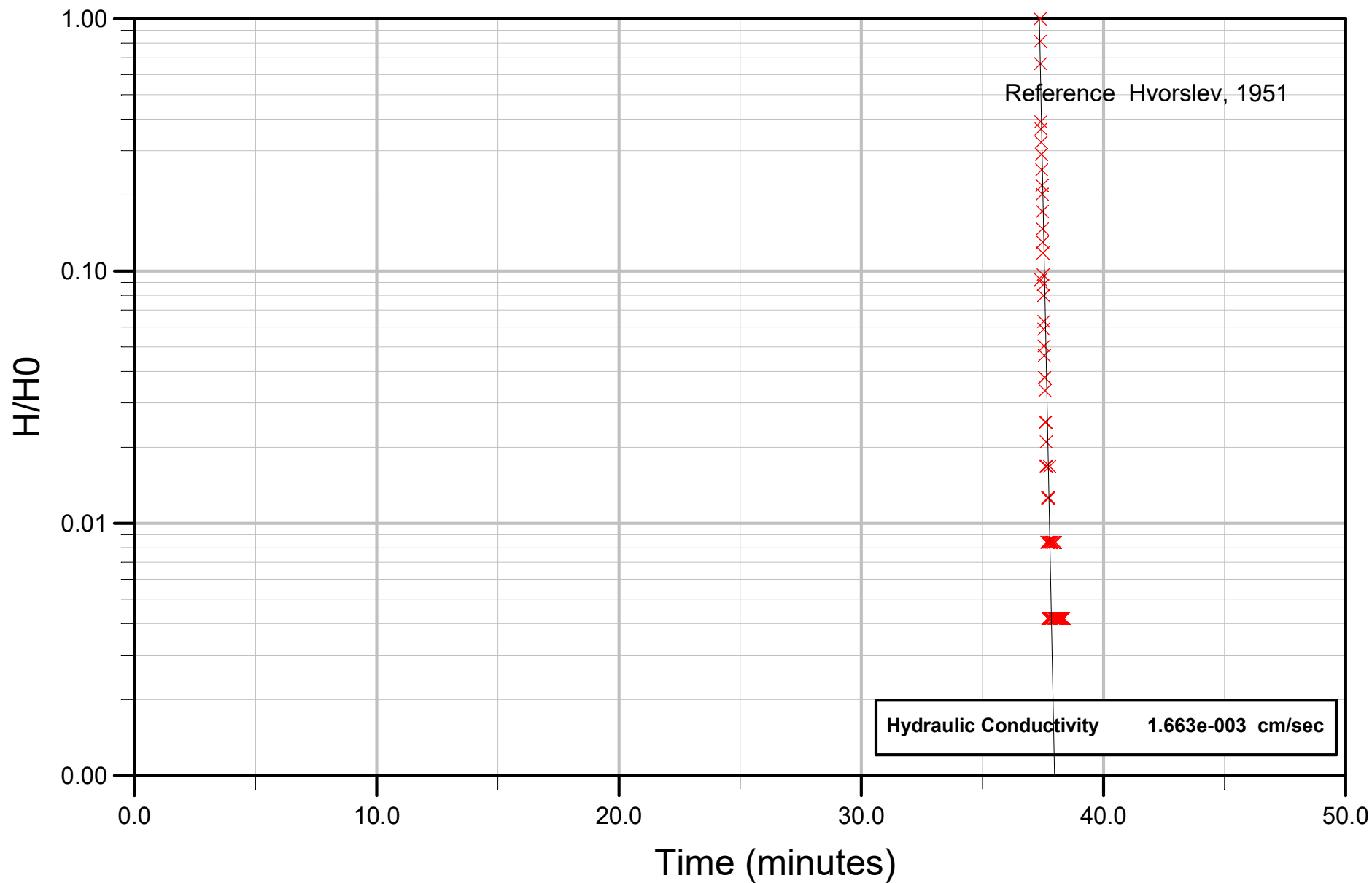
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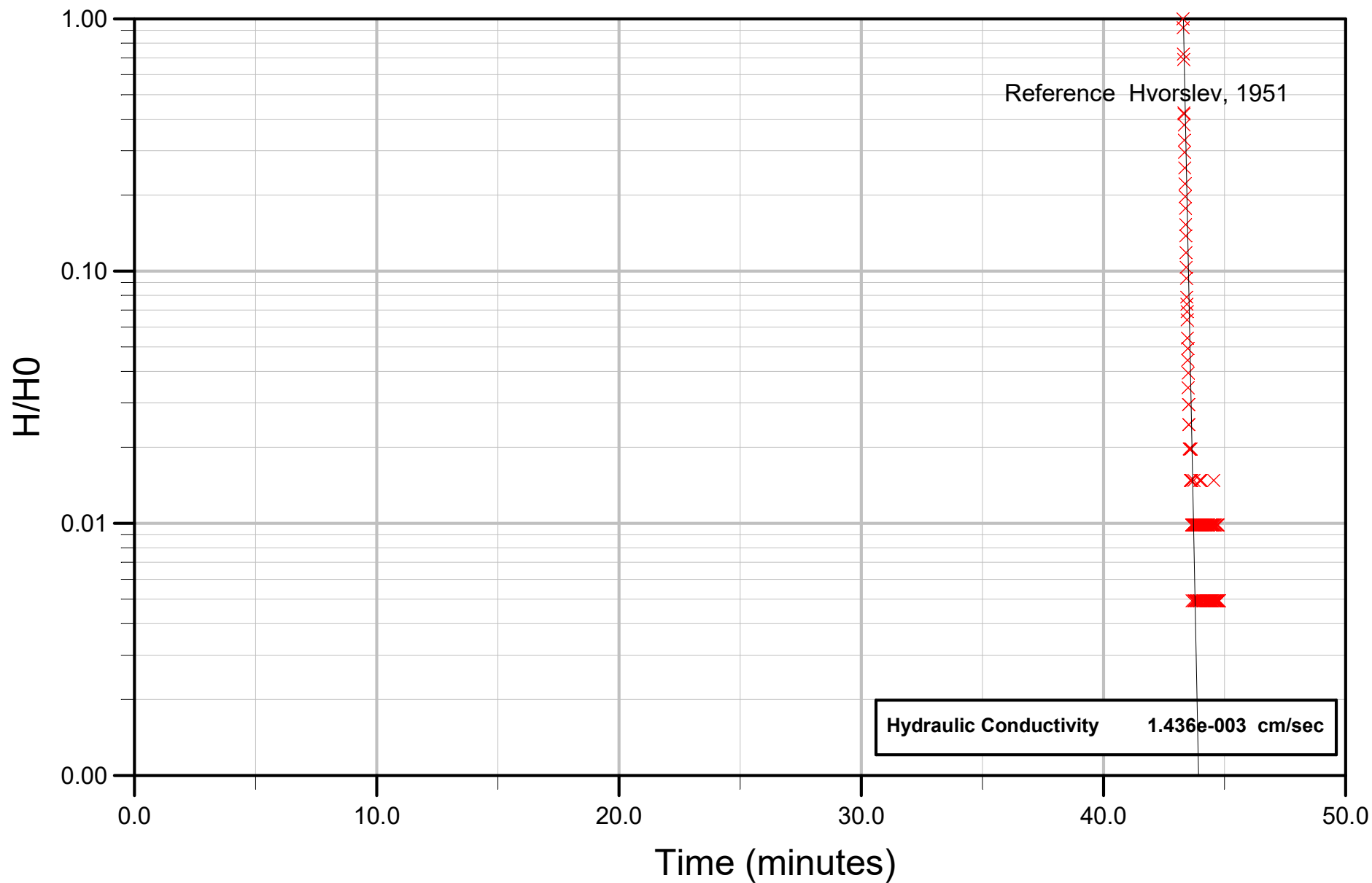
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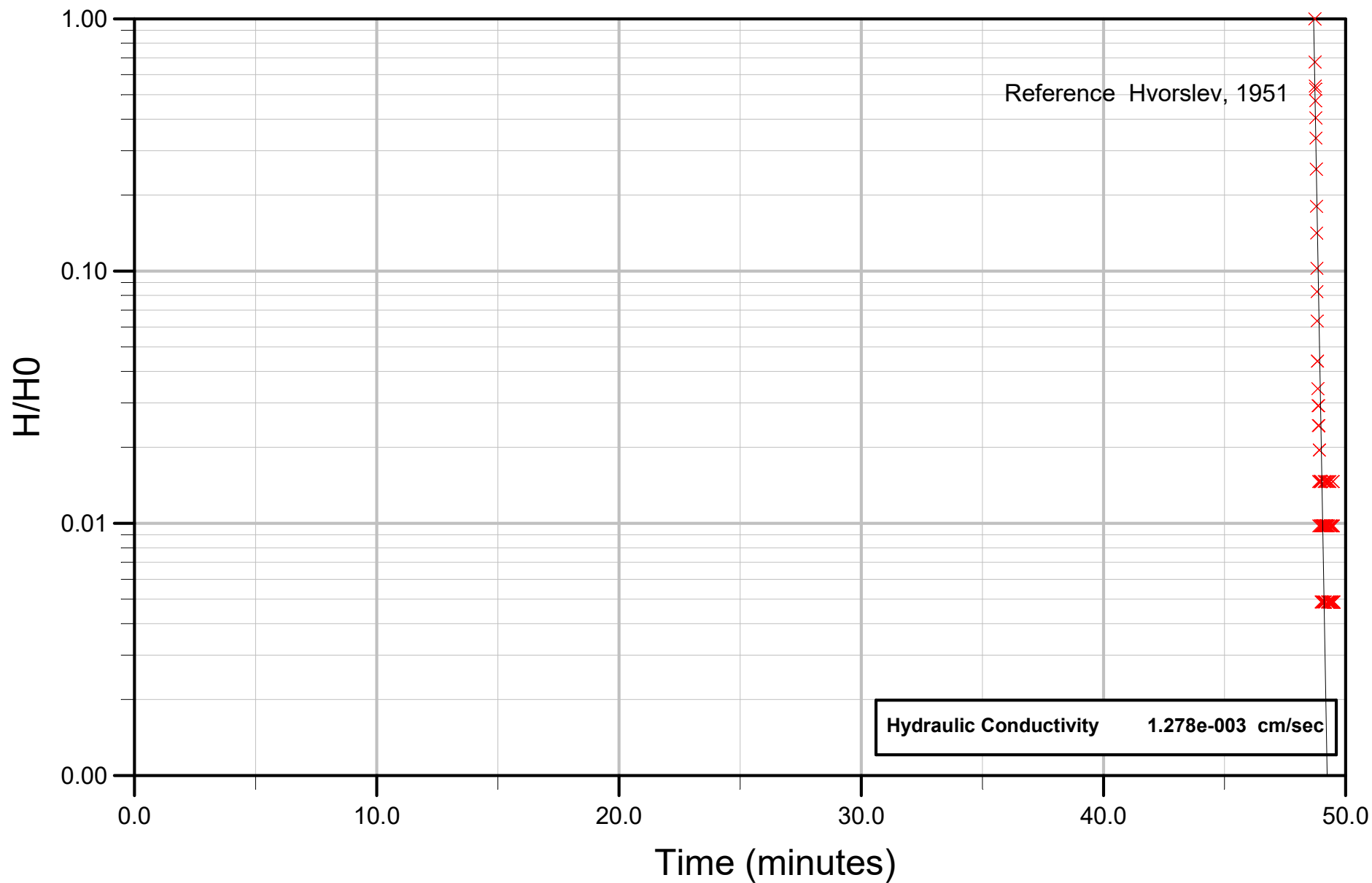
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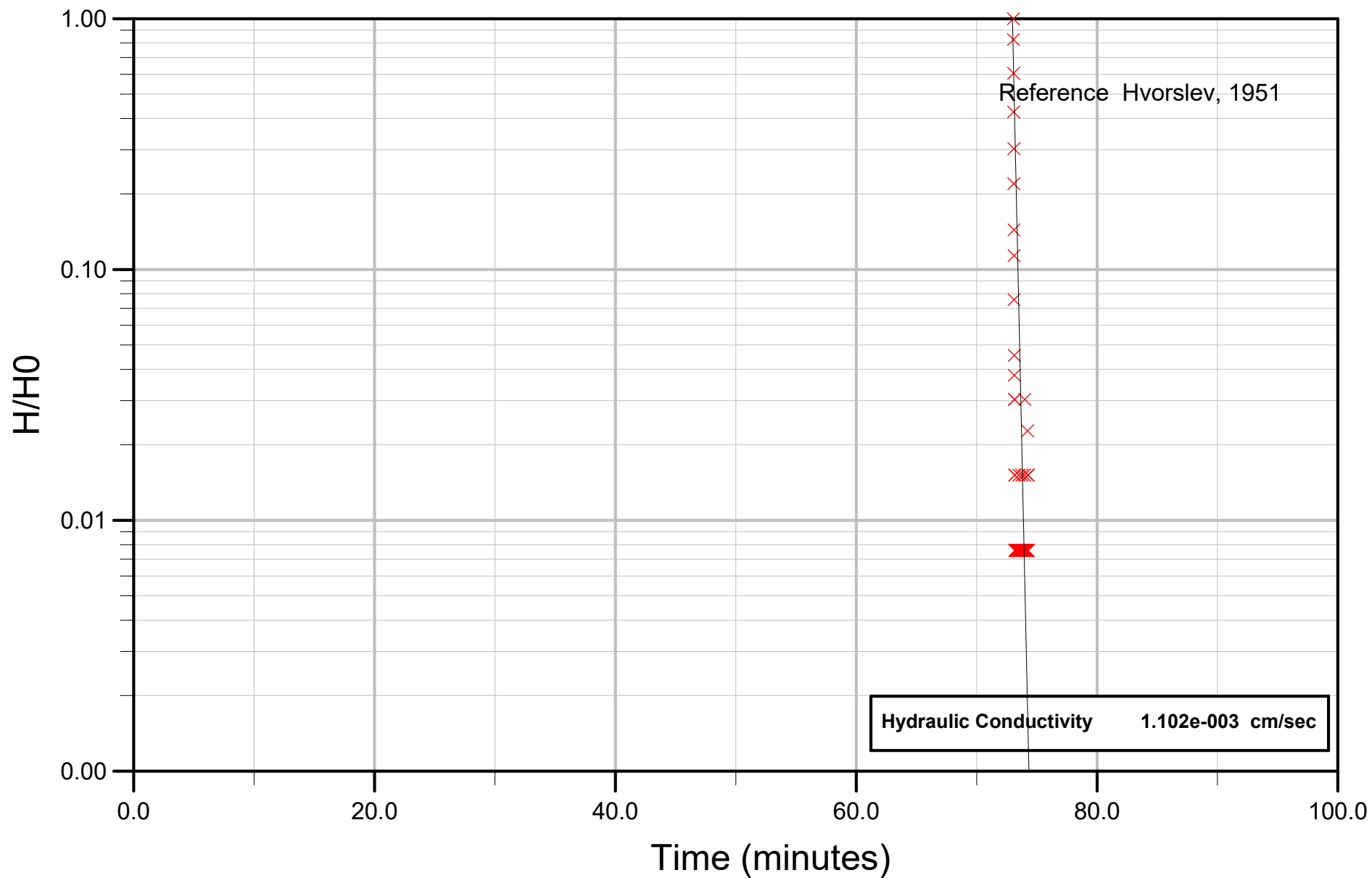
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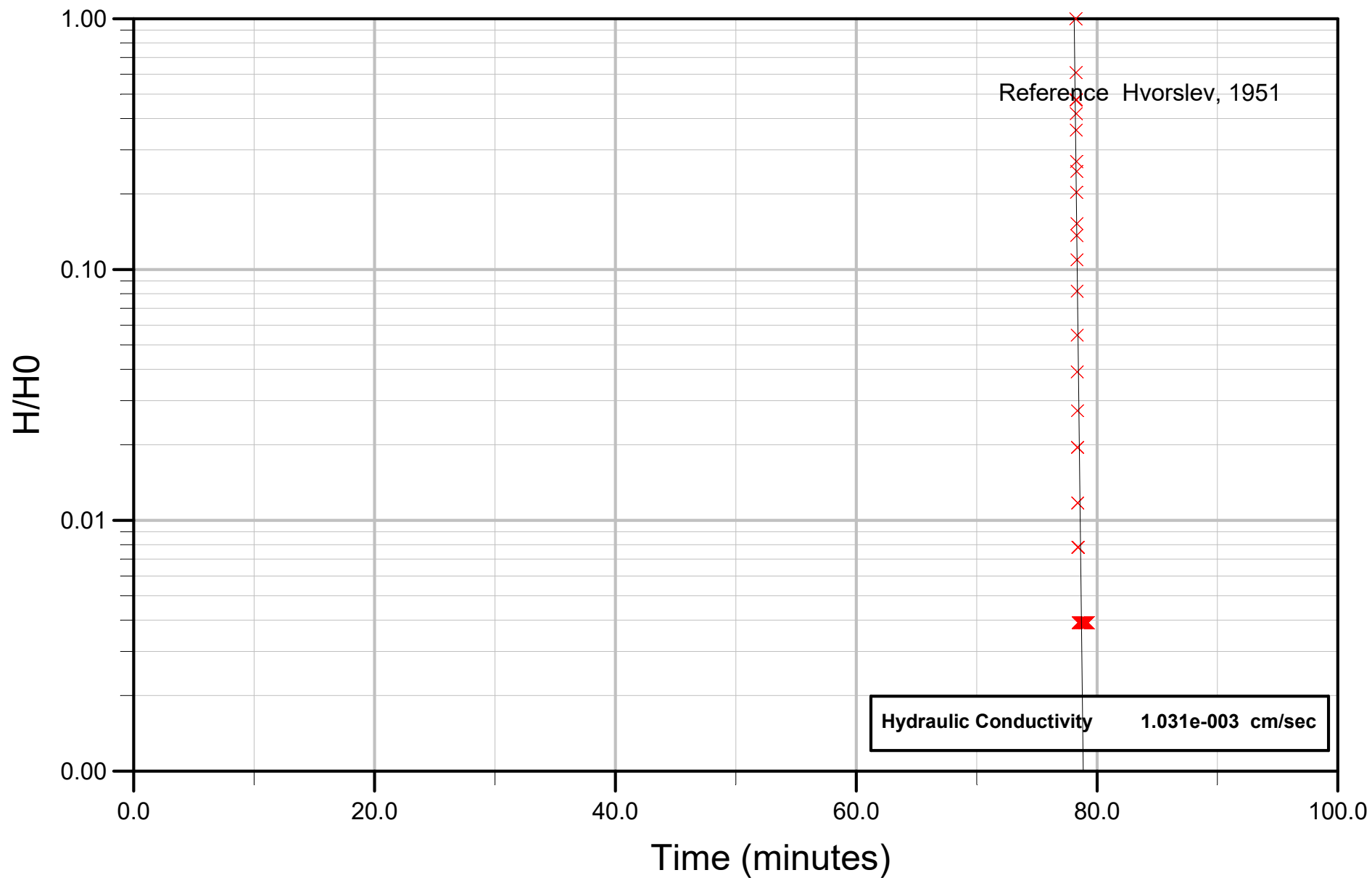
MW-13D Falling Head Test 3



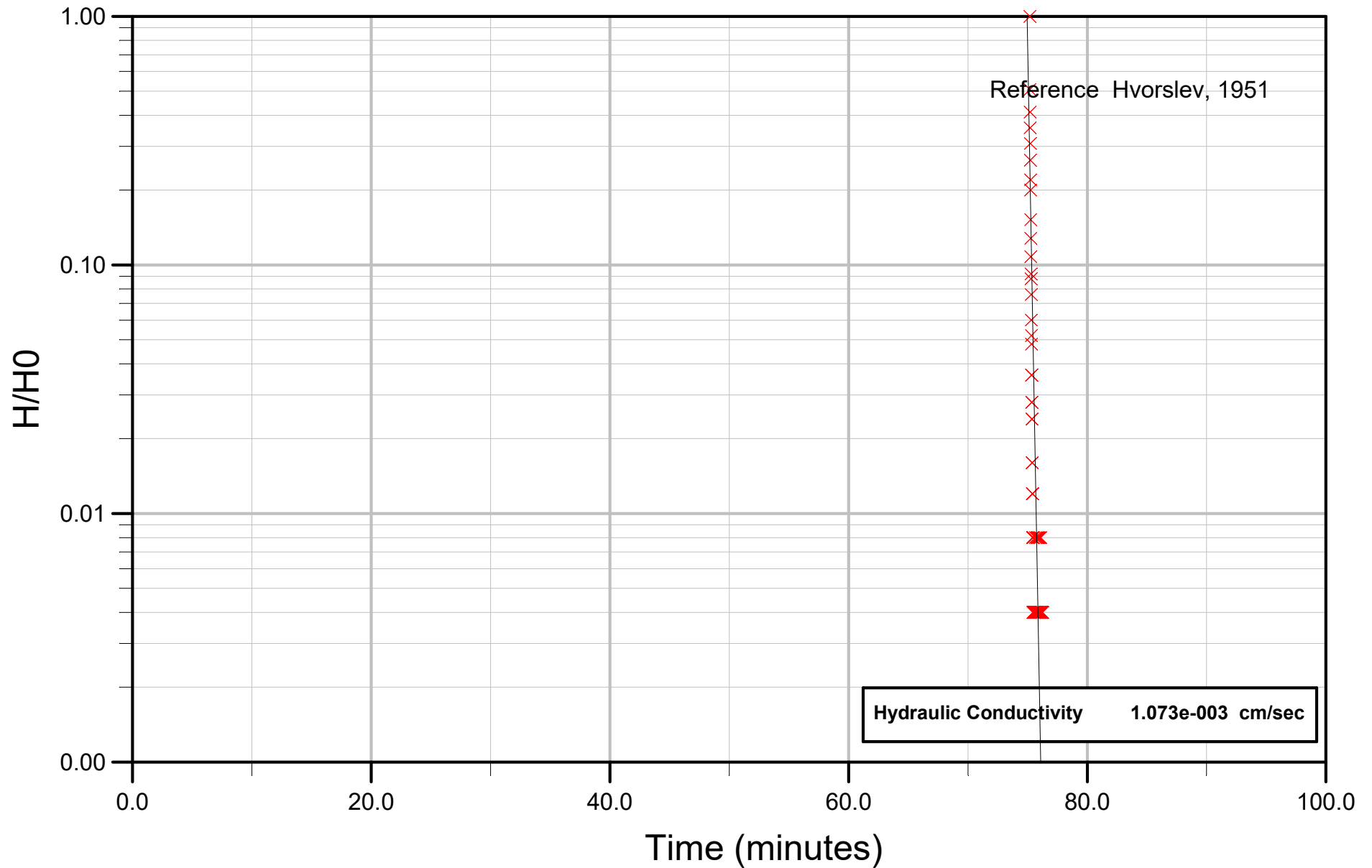
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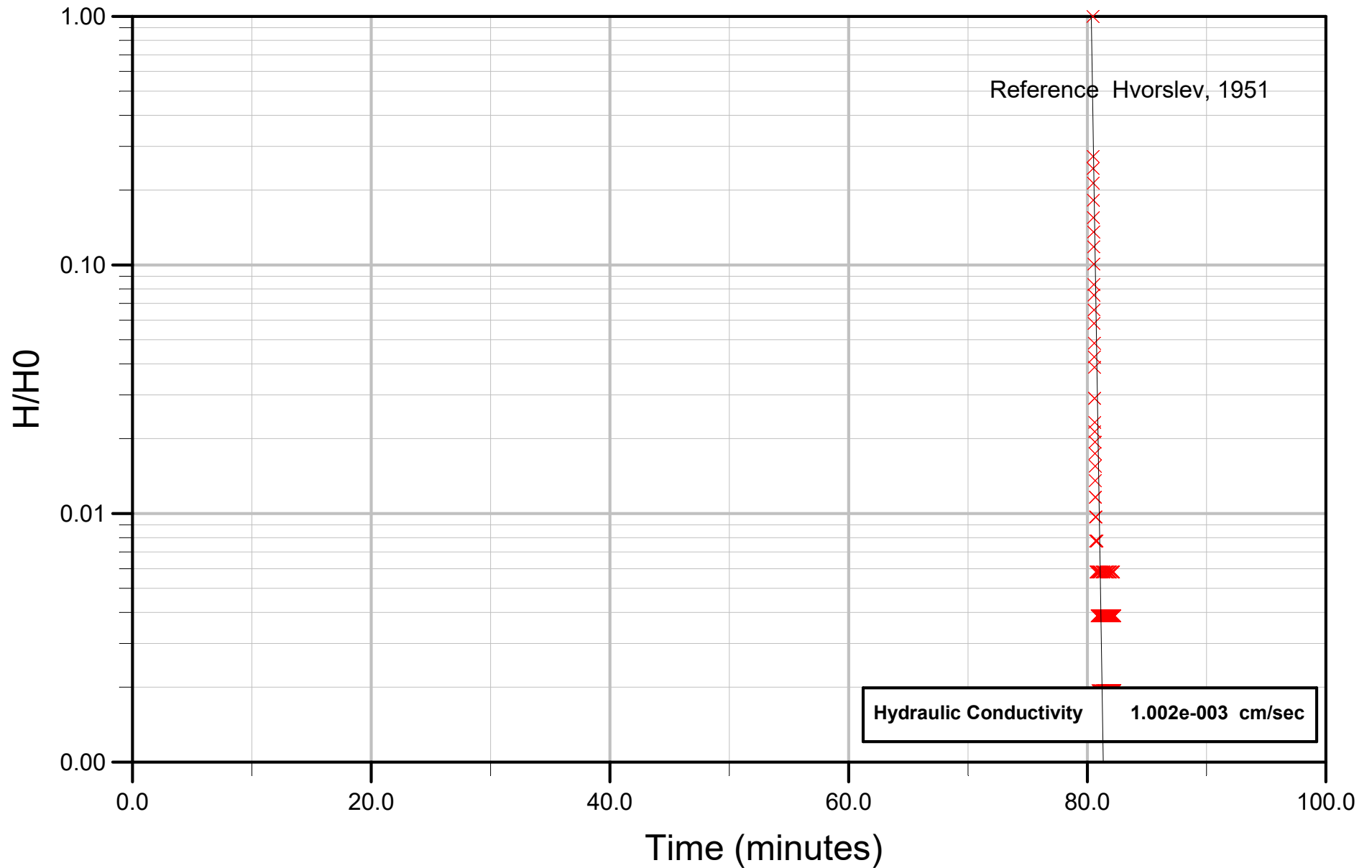
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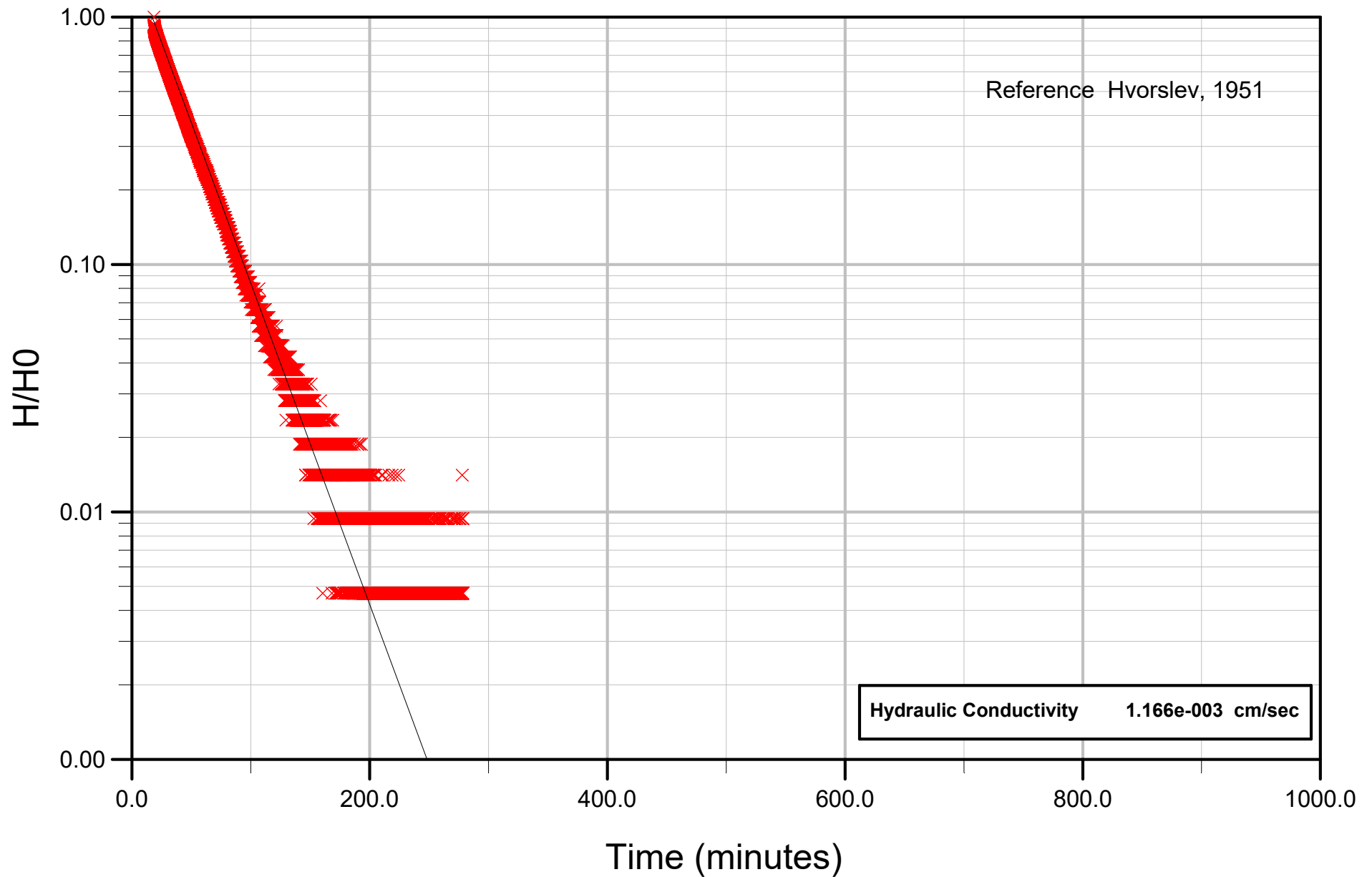
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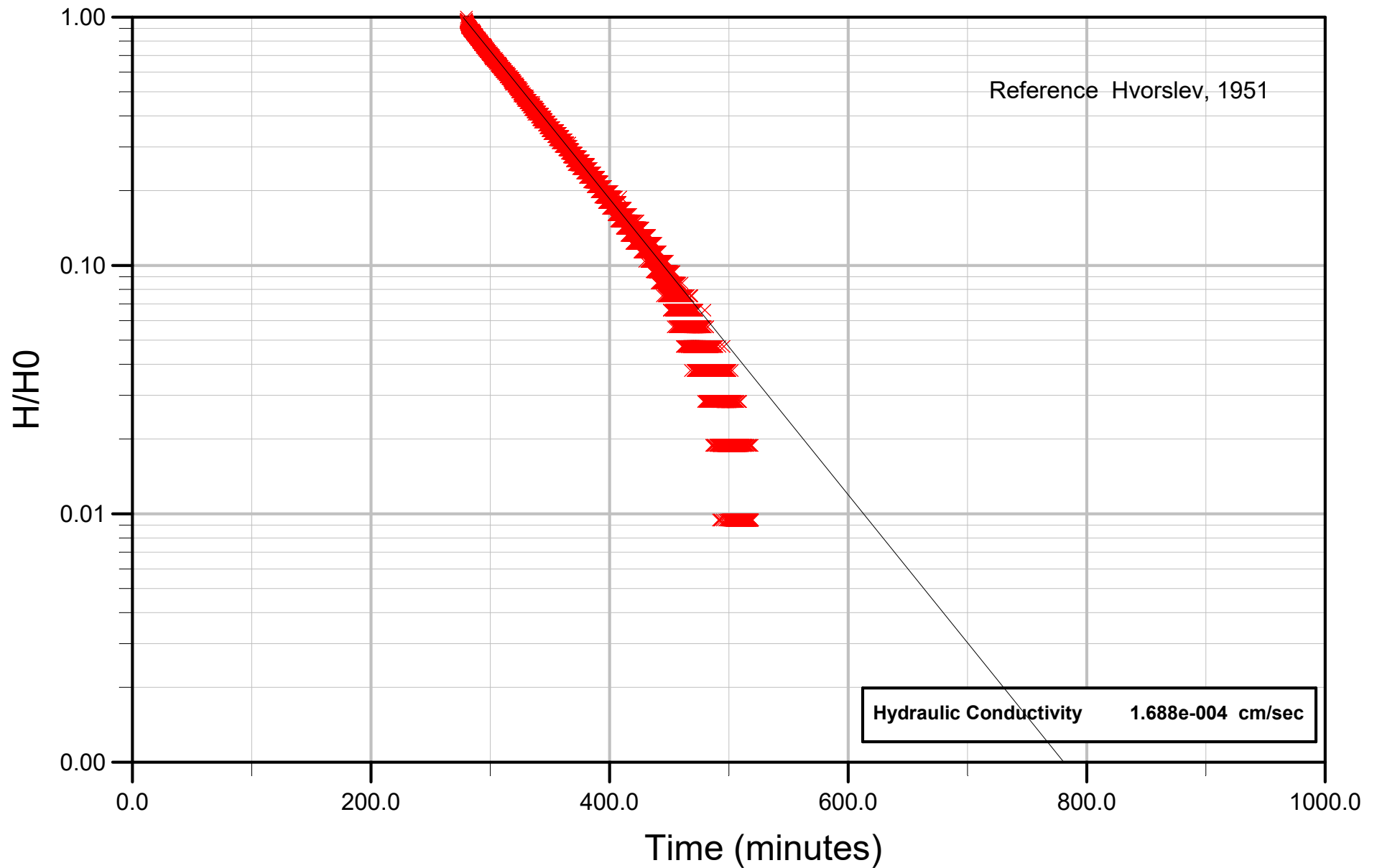
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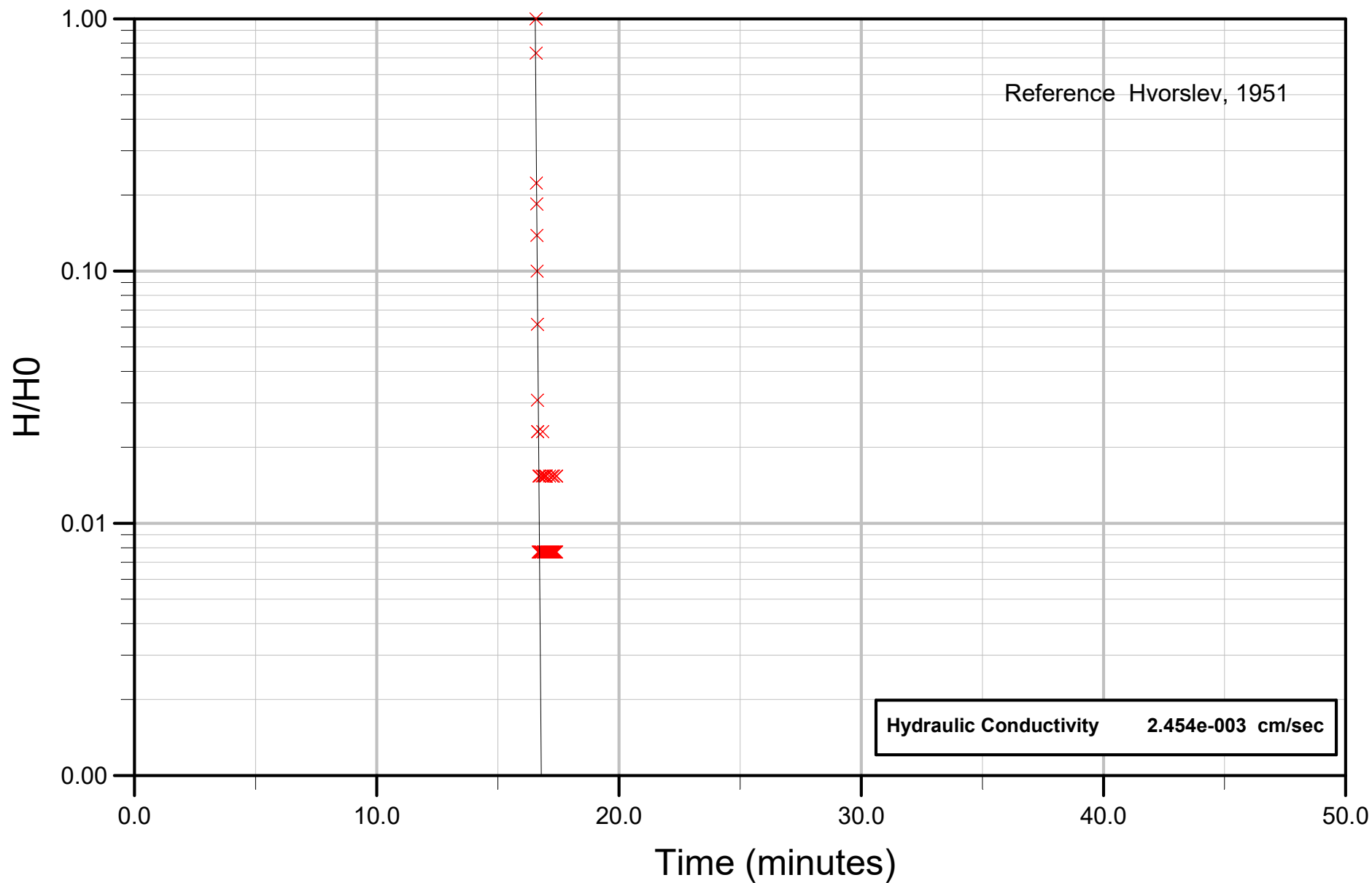
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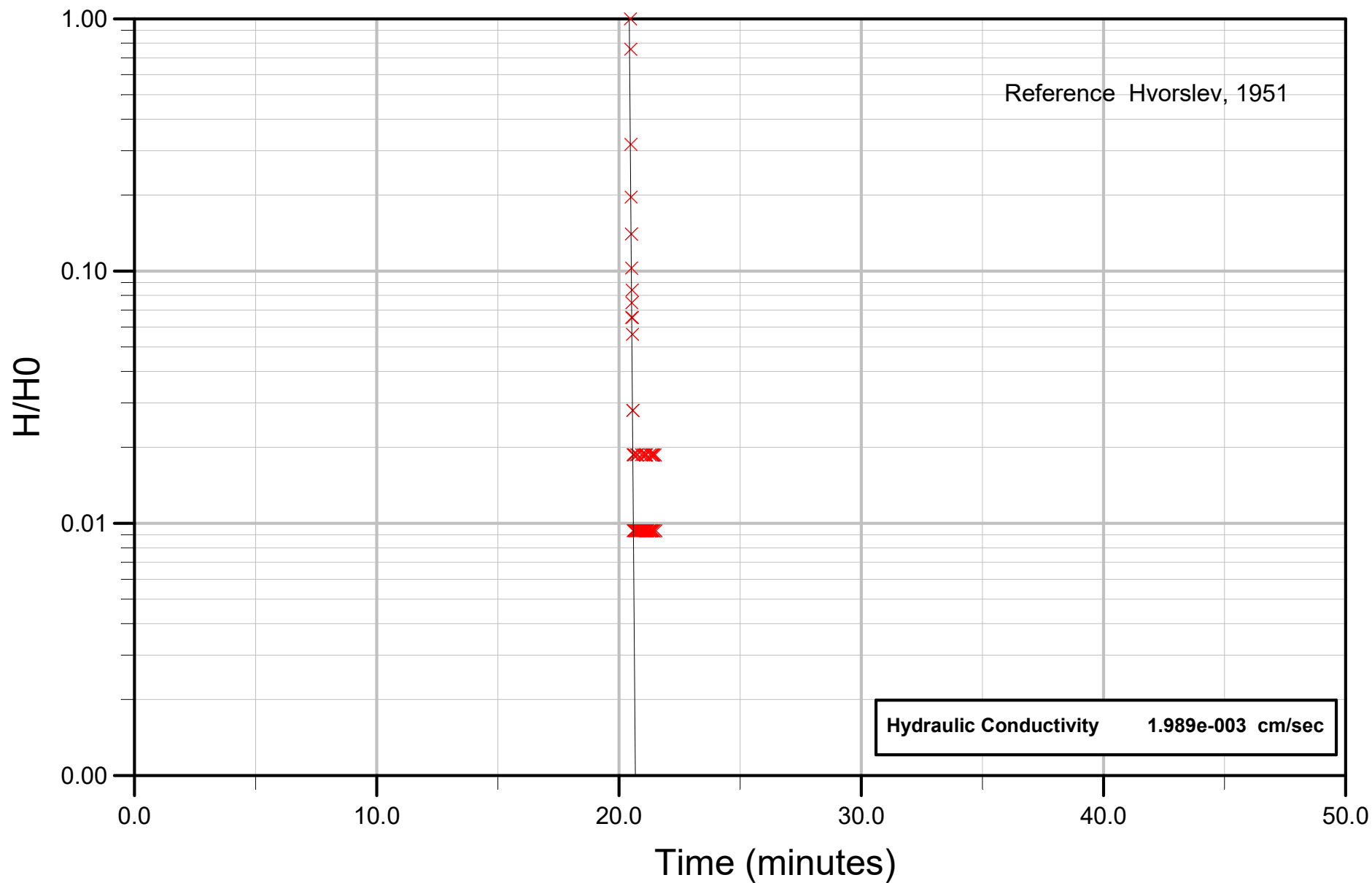
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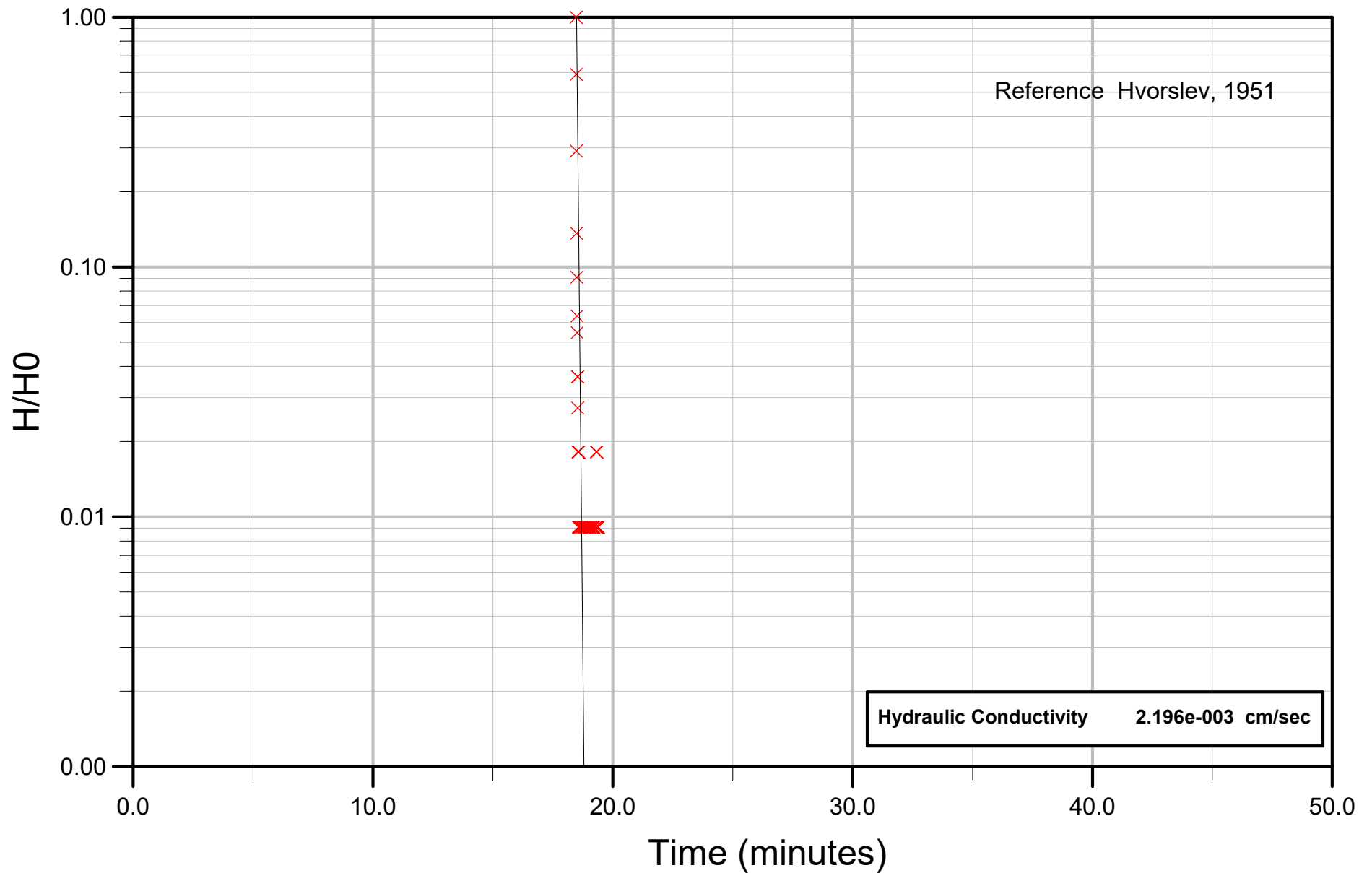
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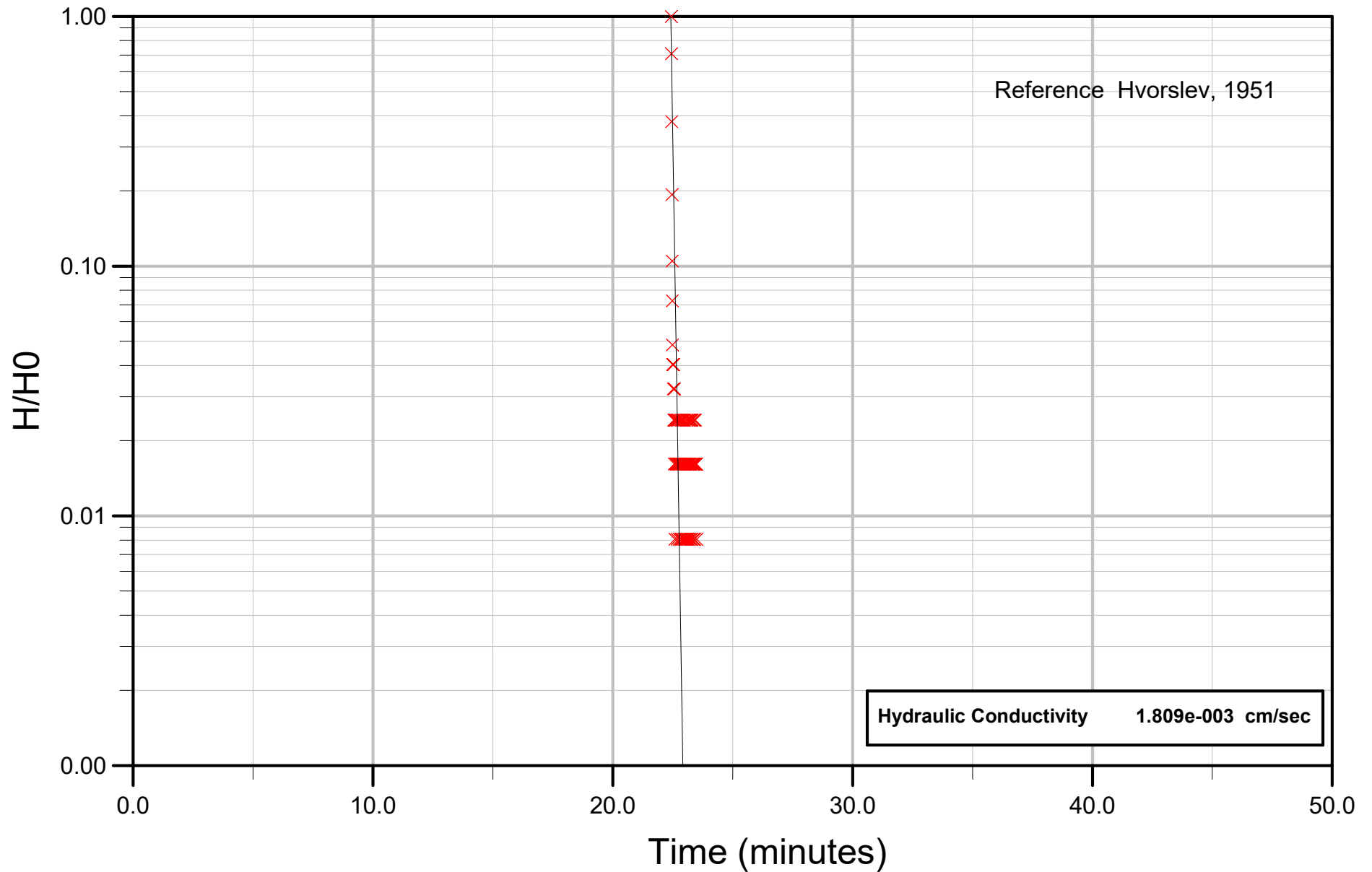
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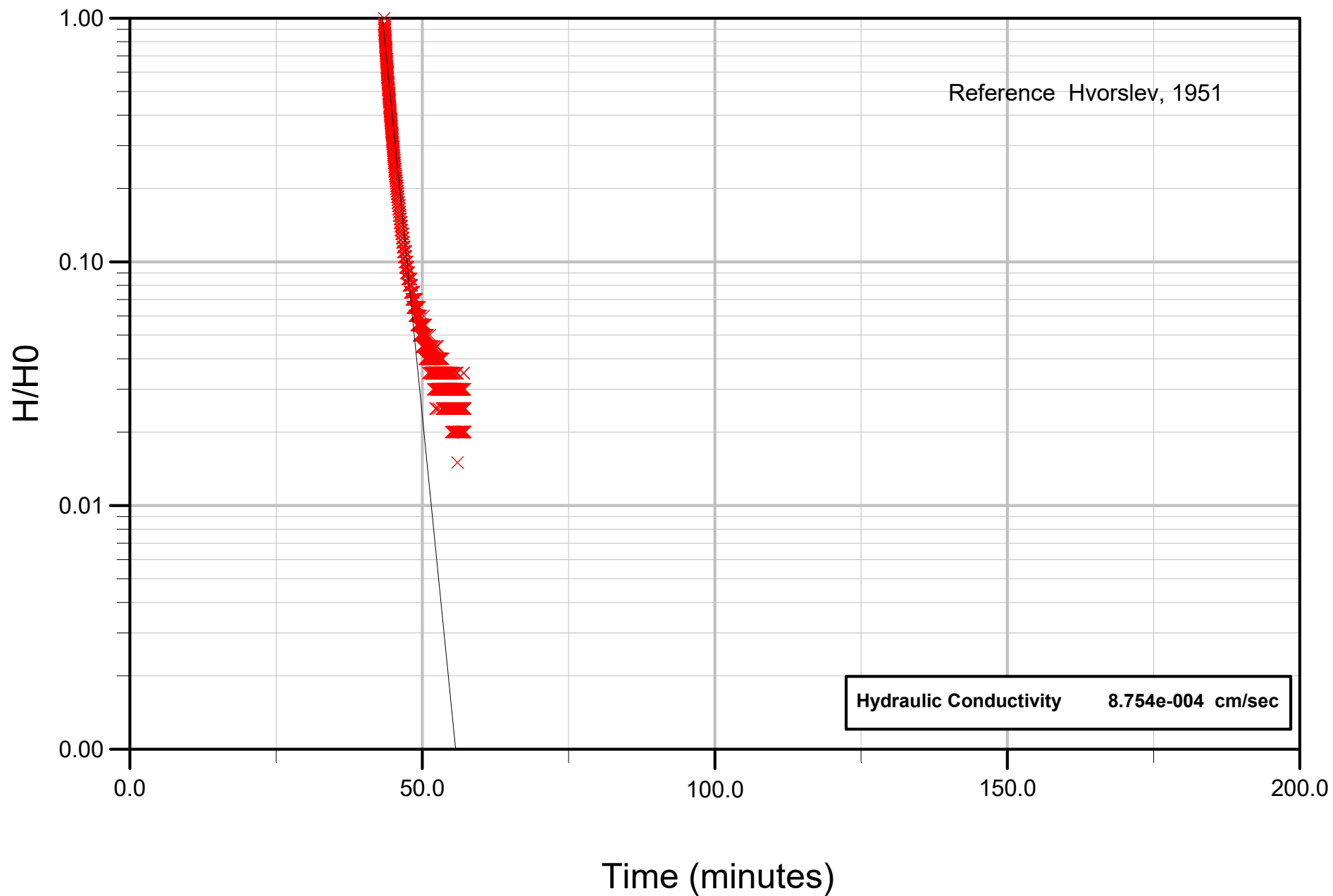
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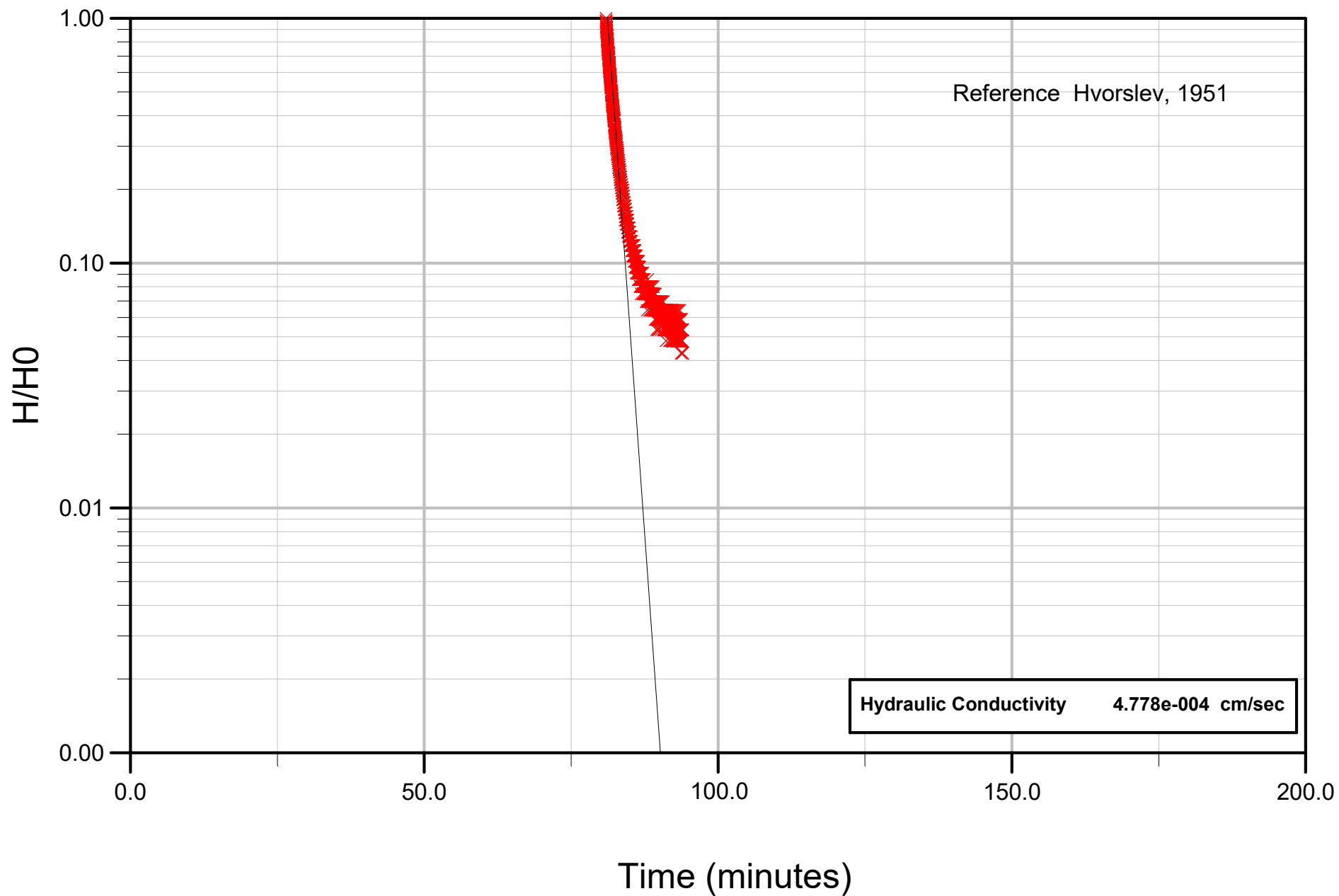
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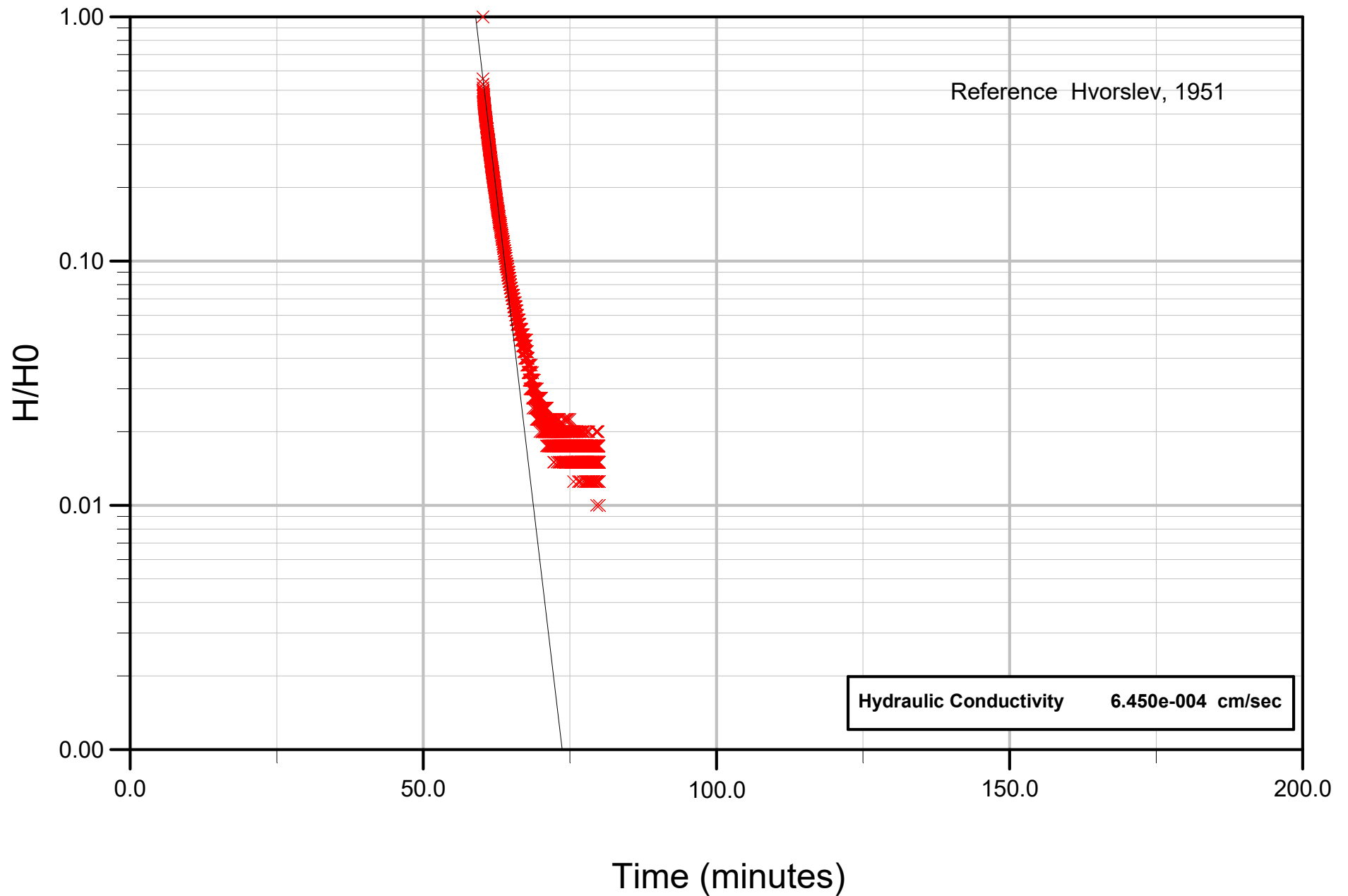
MW-15D Falling Head Test 1



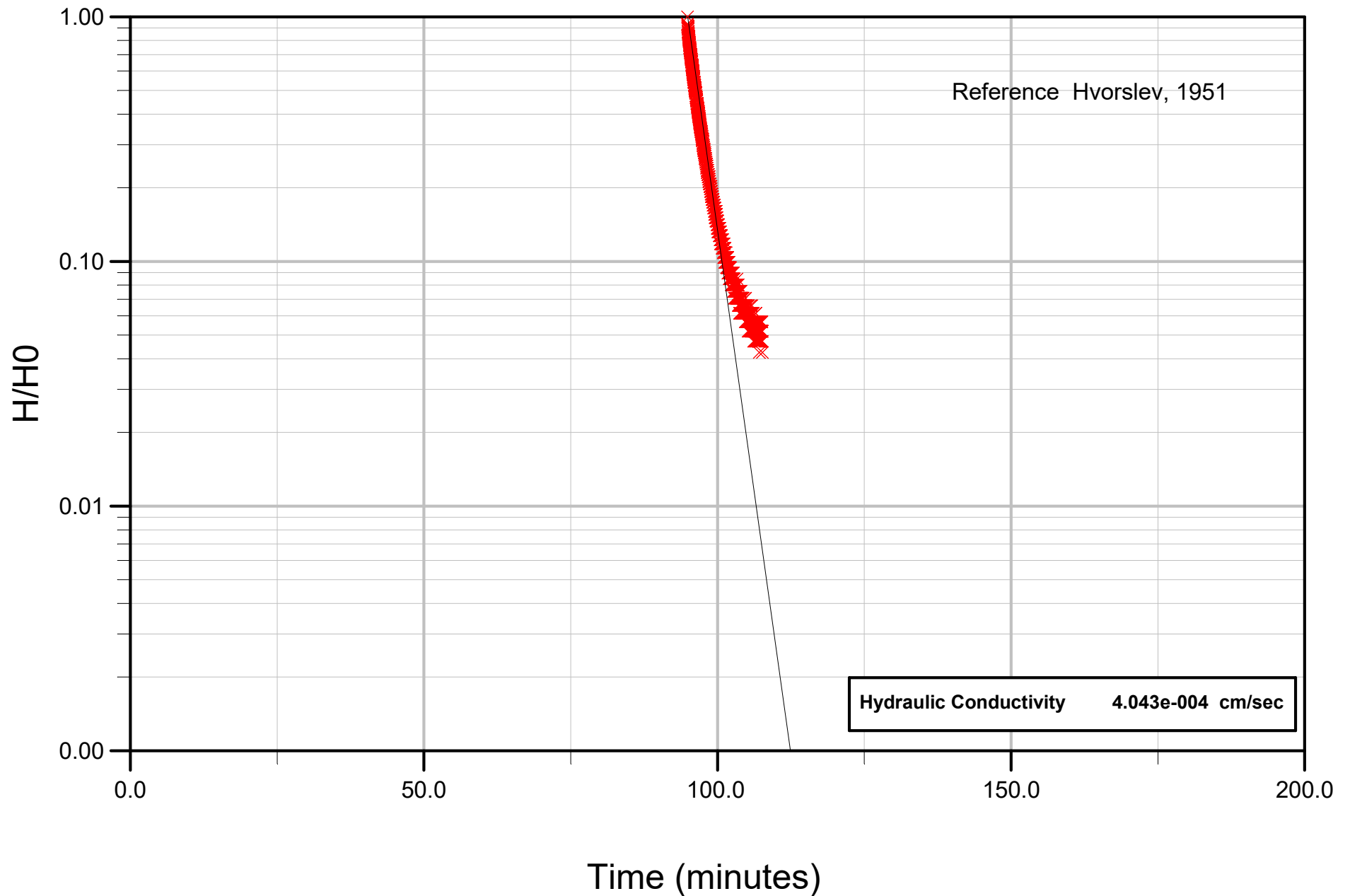
MW-15D Falling Head Test 2



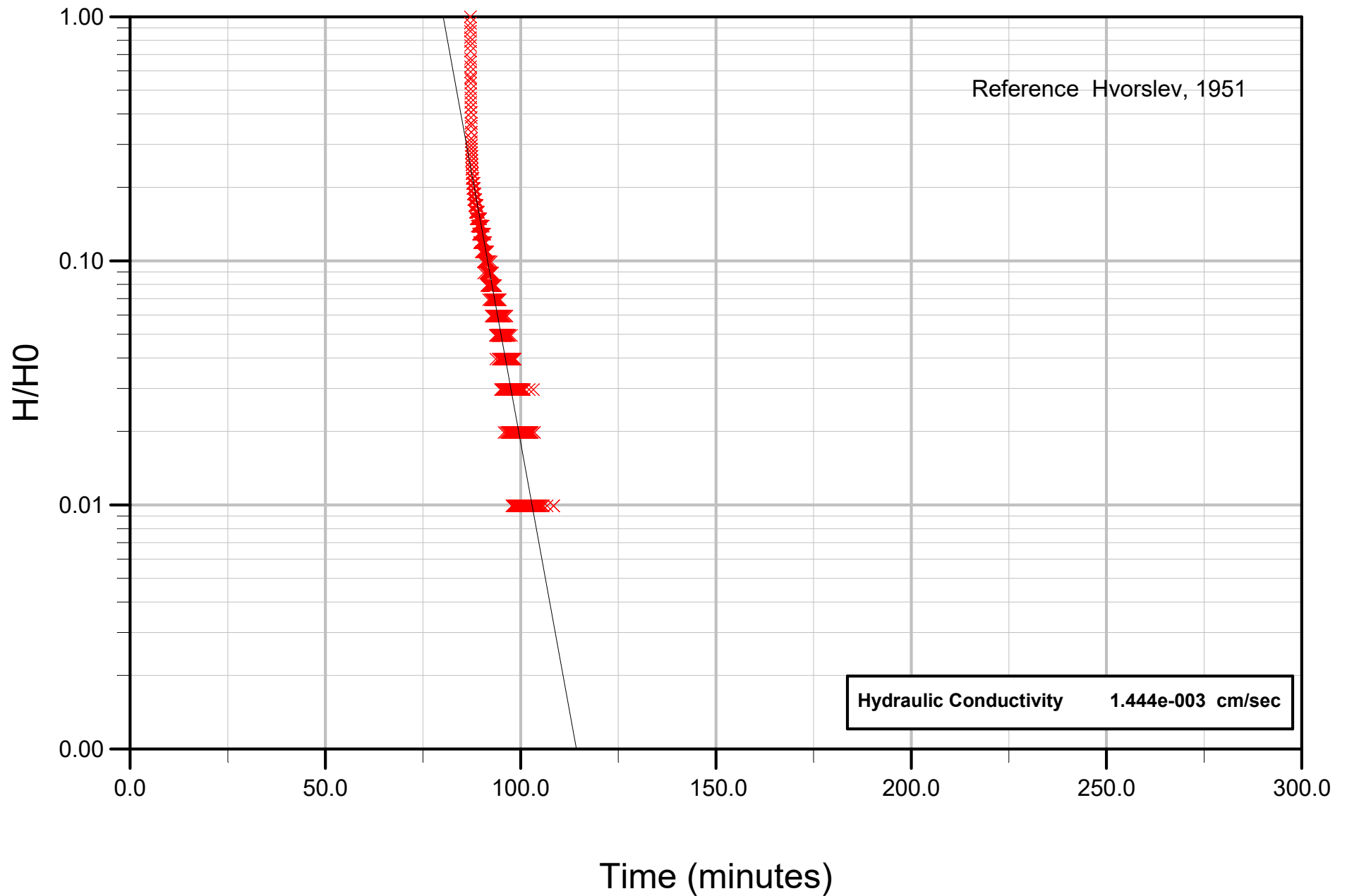
MW-15D Rising Head Test 1



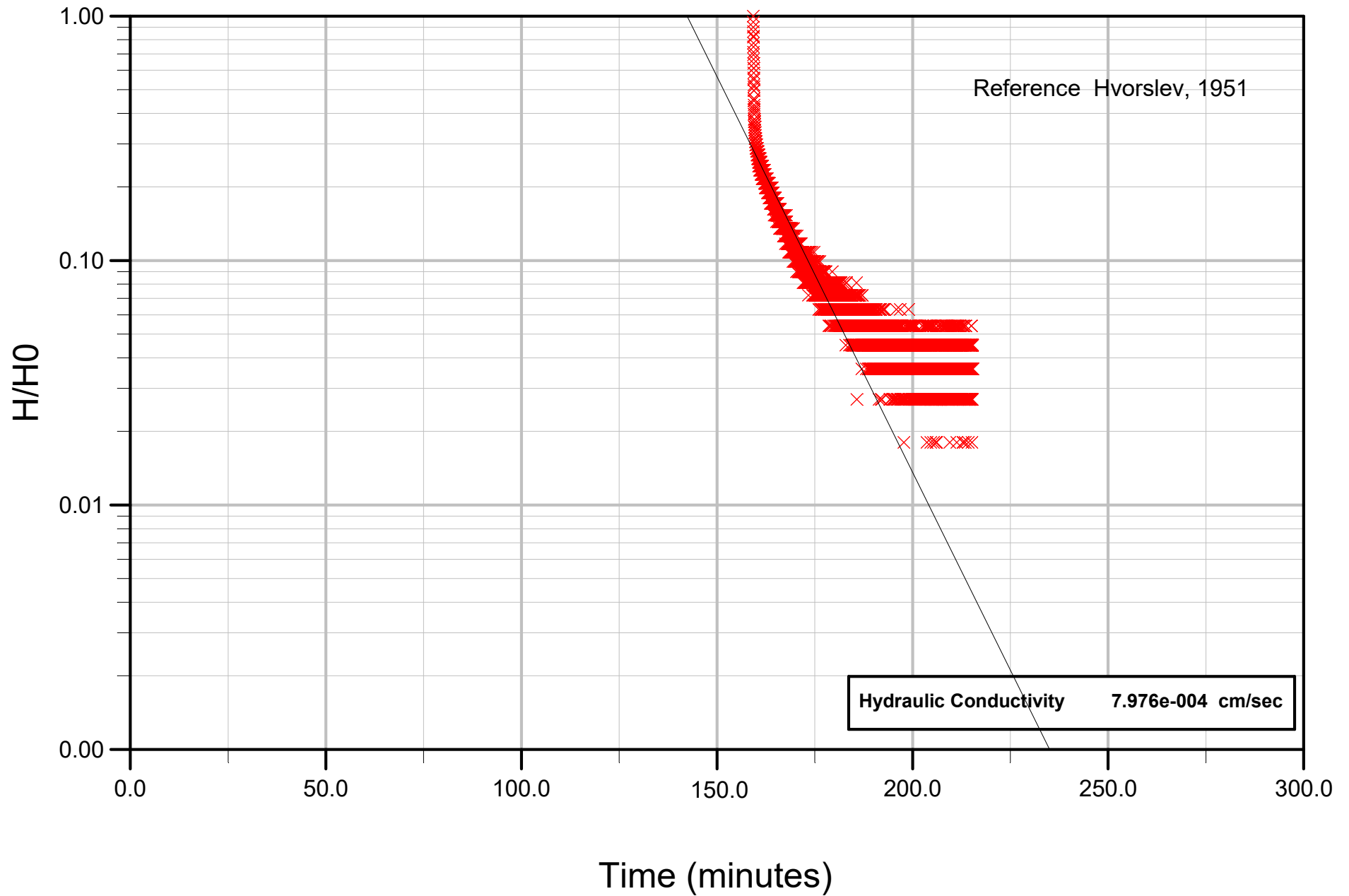
MW-15D Rising Head Test 2



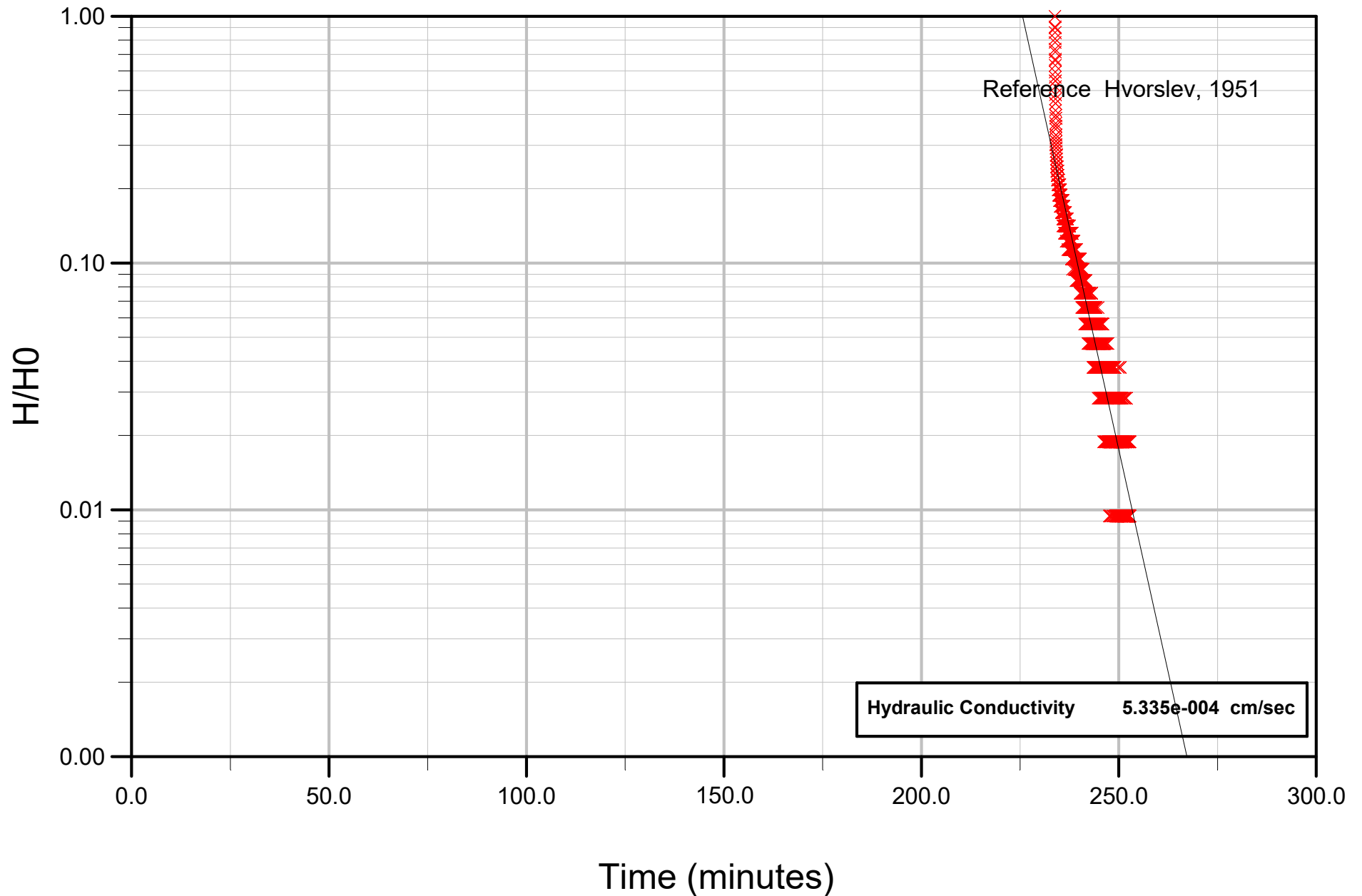
MW-15S Rising Head Test 1



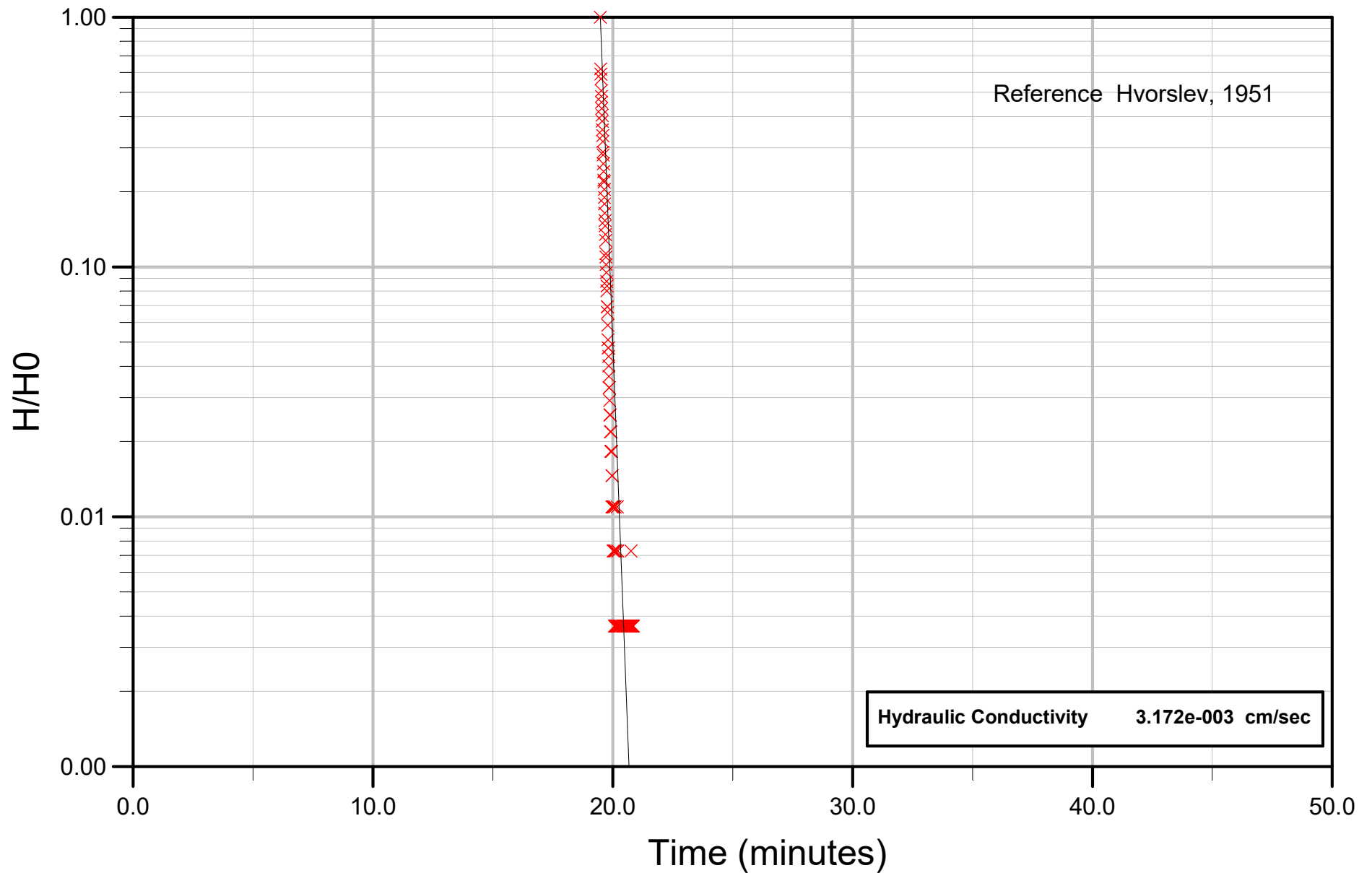
MW-15S Rising Head Test 2



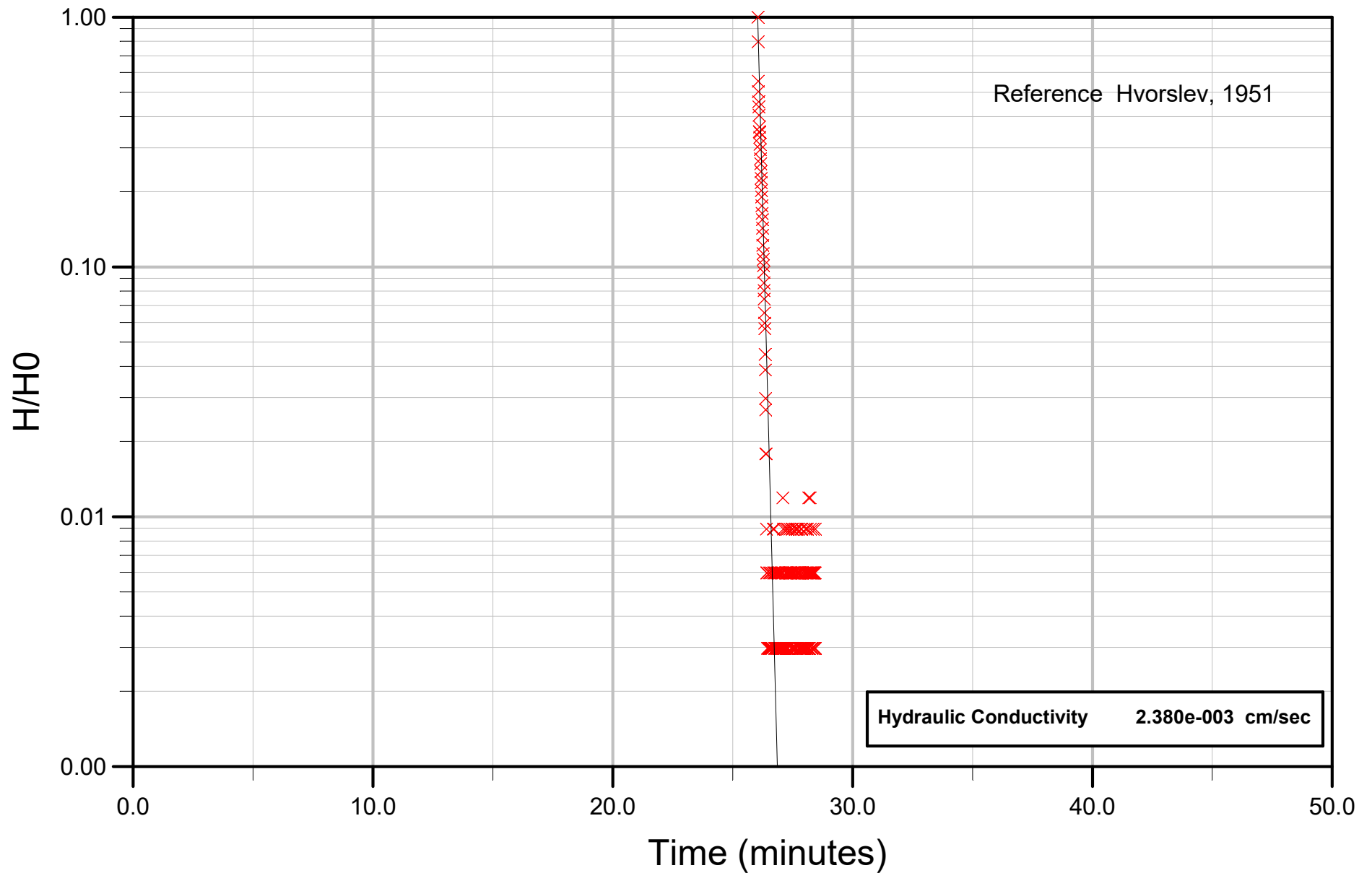
MW-15S Rising Head Test 3



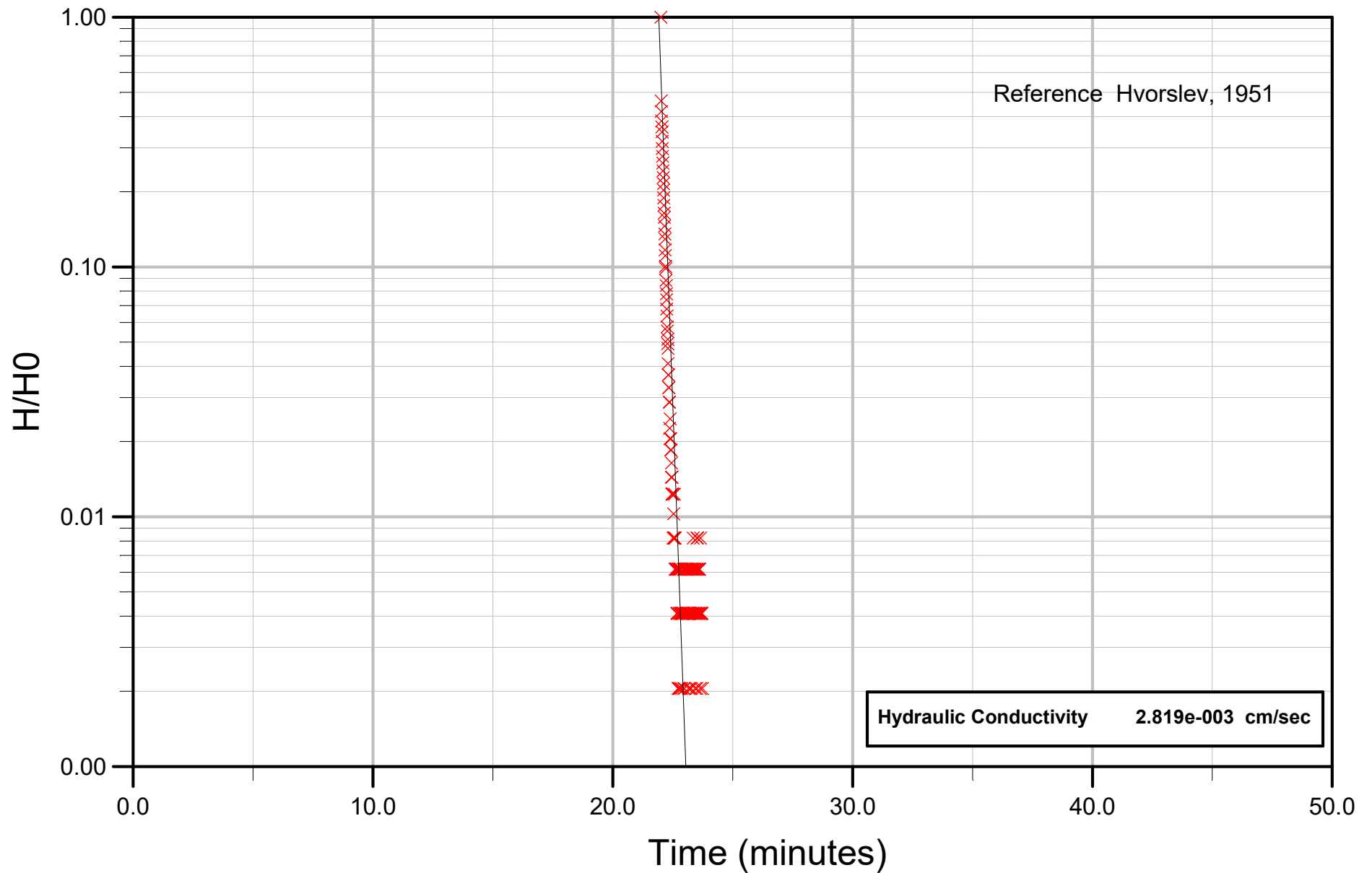
MW-16D Falling Head Test 1



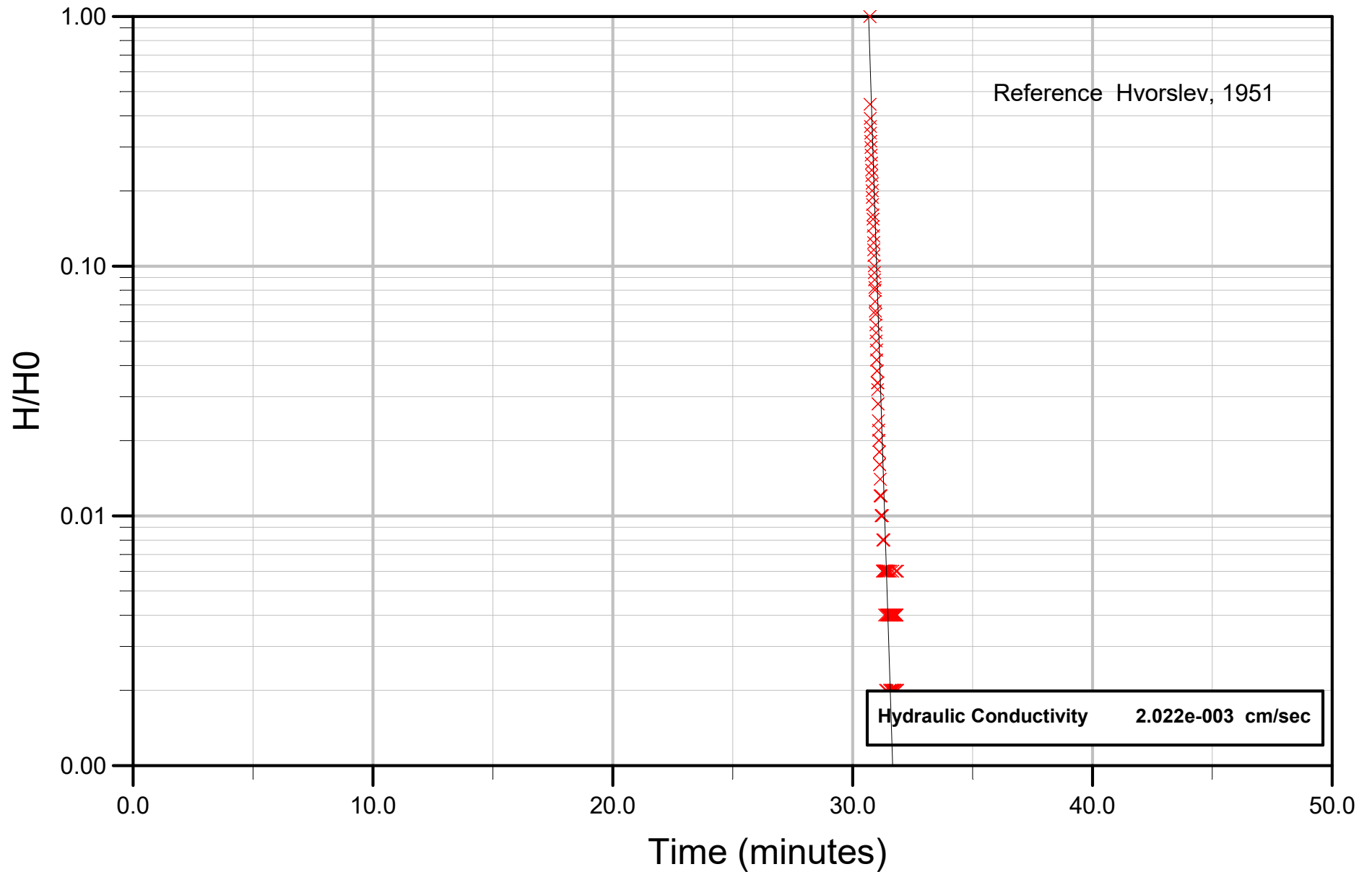
MW-16D Falling Head Test 2



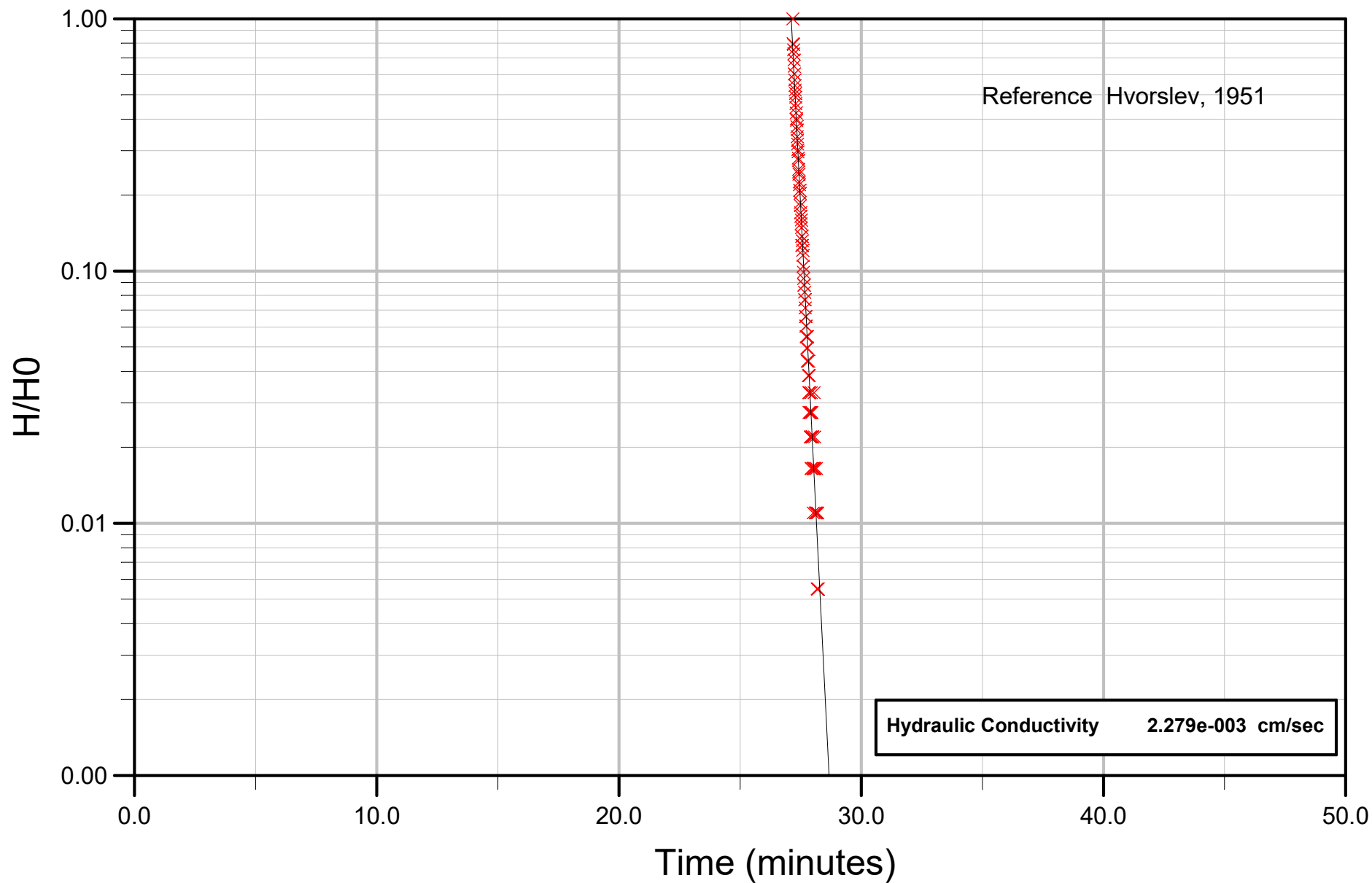
MW-16D Rising Head Test 1



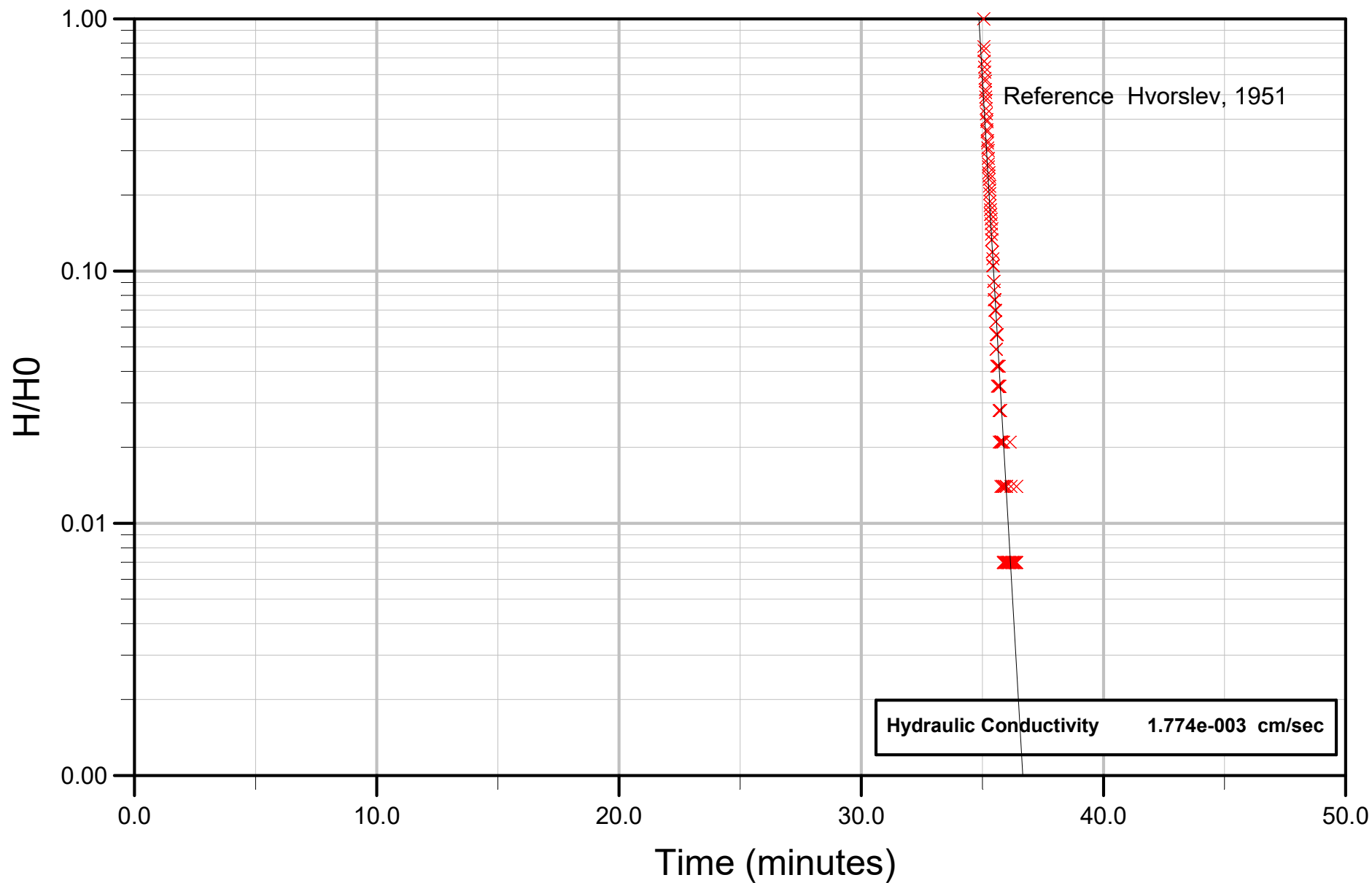
MW-16D Rising Head Test 2



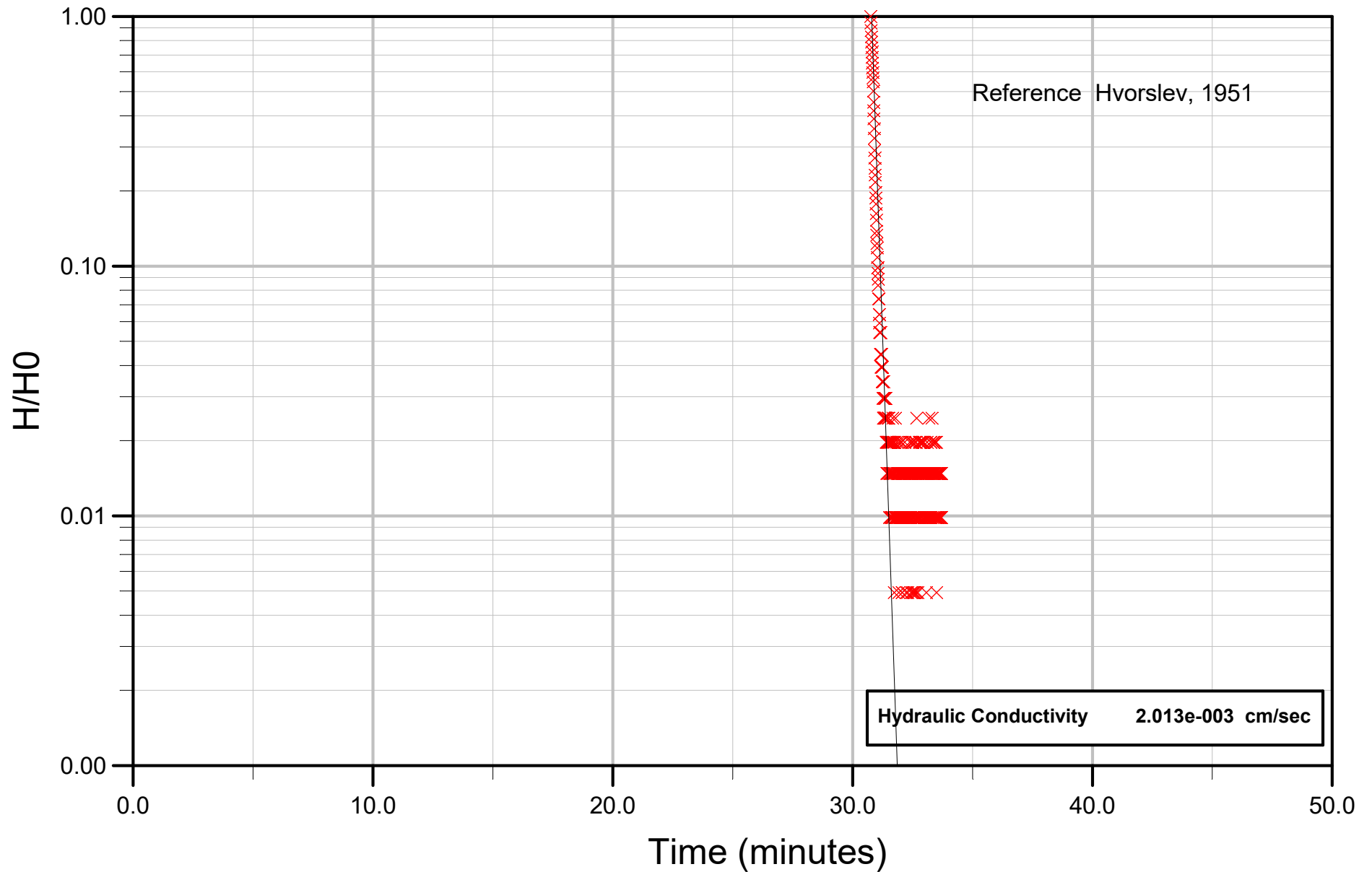
MW-16S Falling Head Test 1



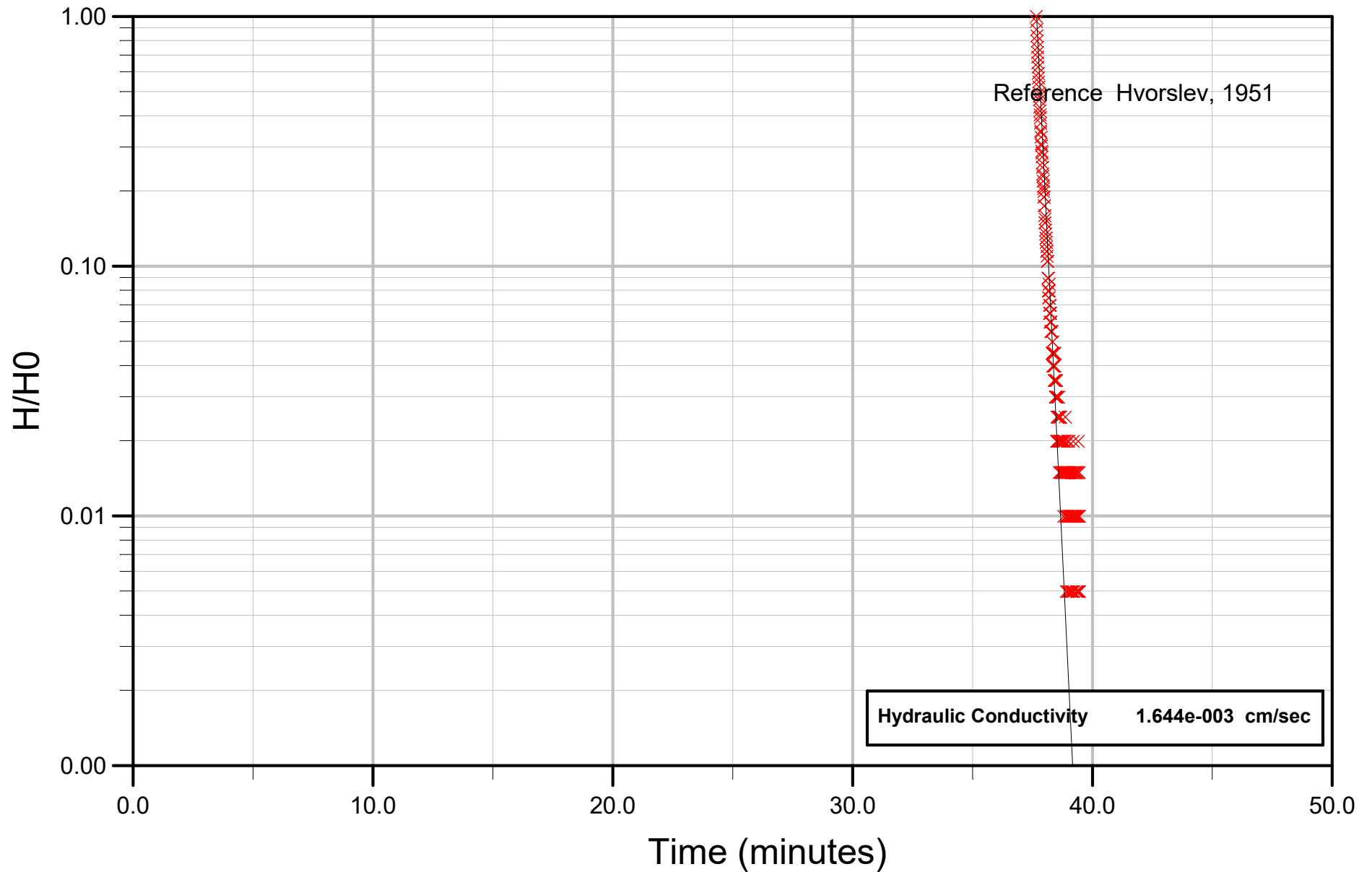
MW-16S Falling Head Test 2



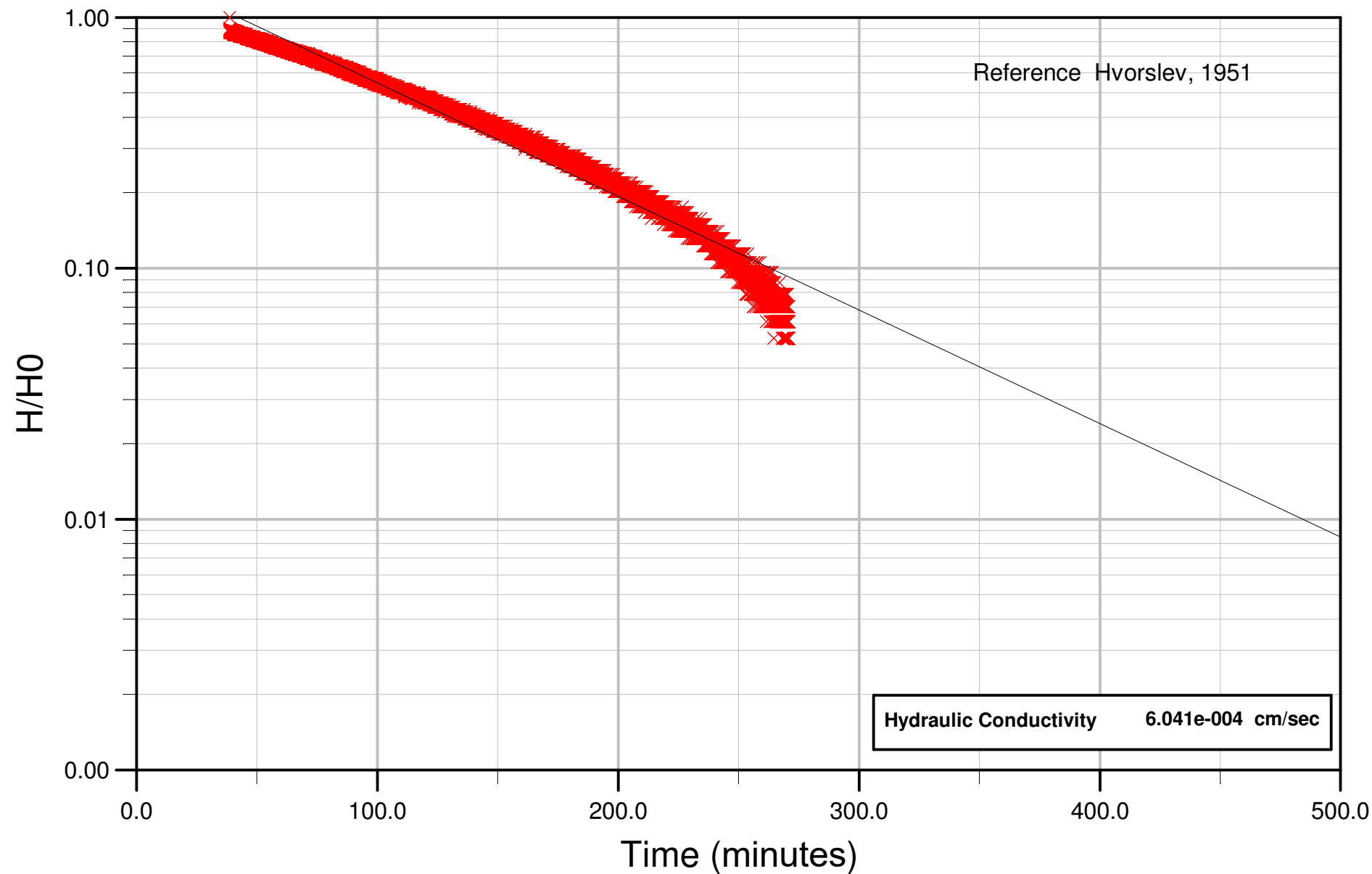
MW-16S Rising Head Test 1



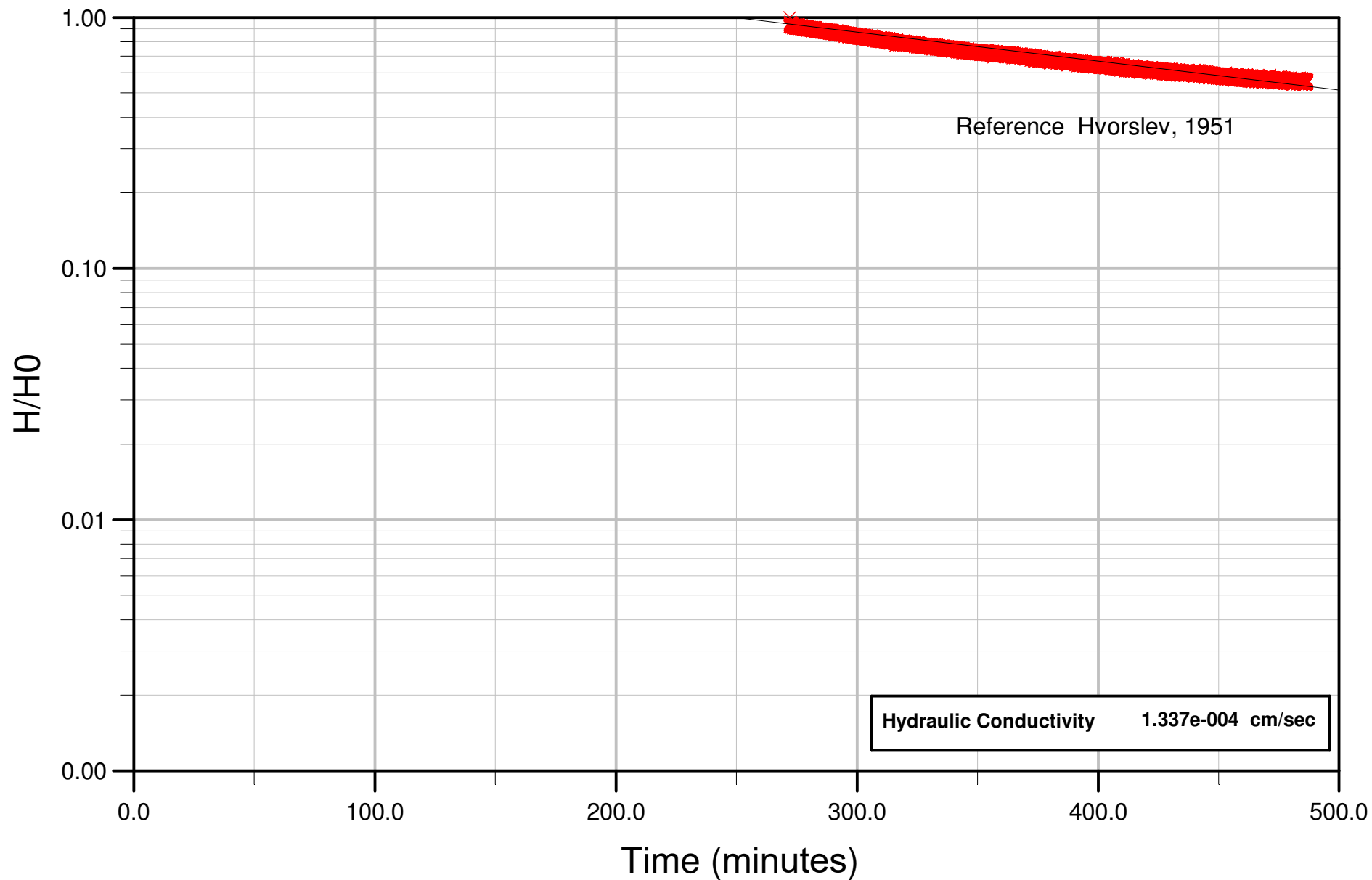
MW-16S Rising Head Test 2



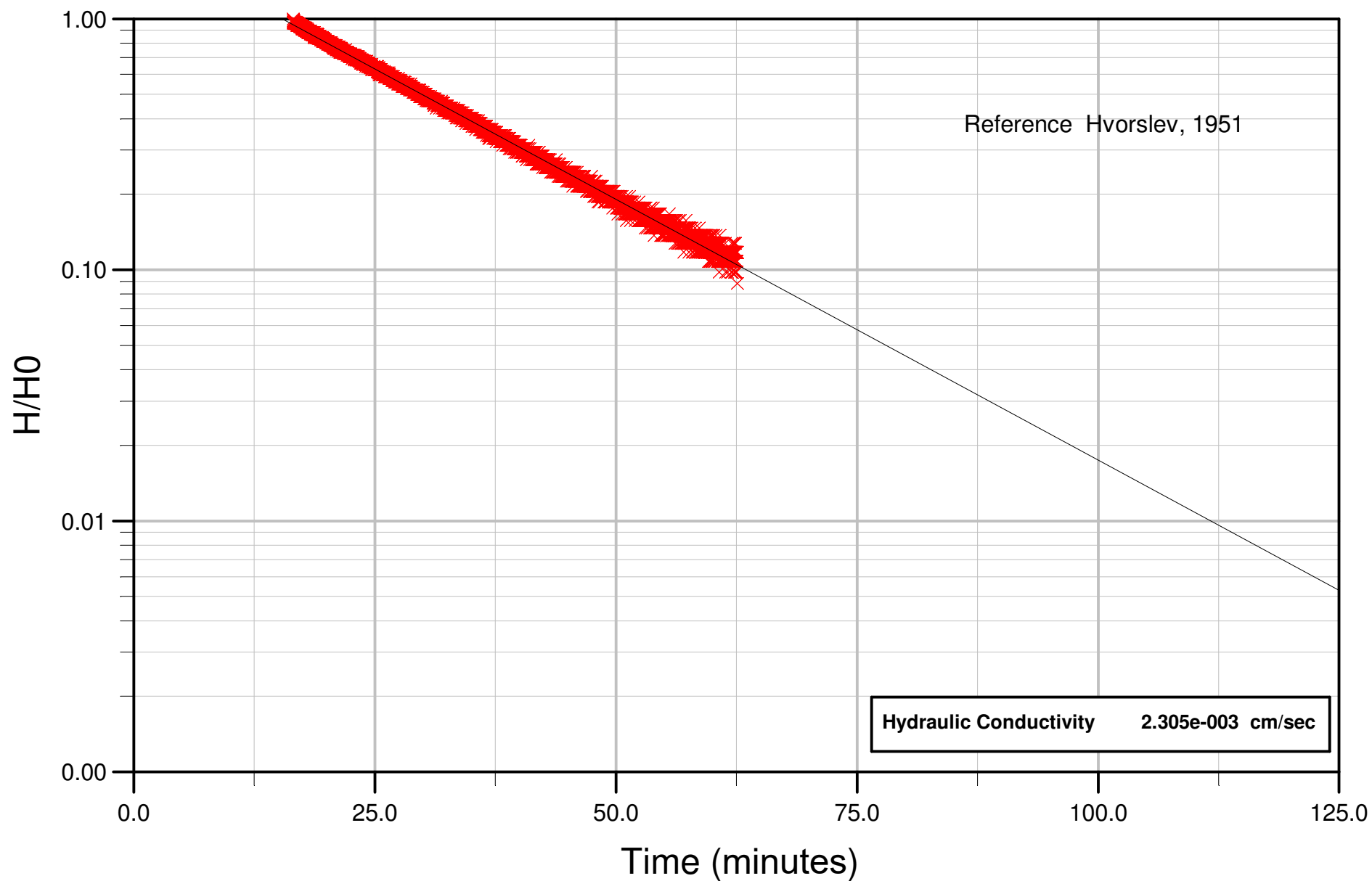
EXB-1 Falling Head Test 1



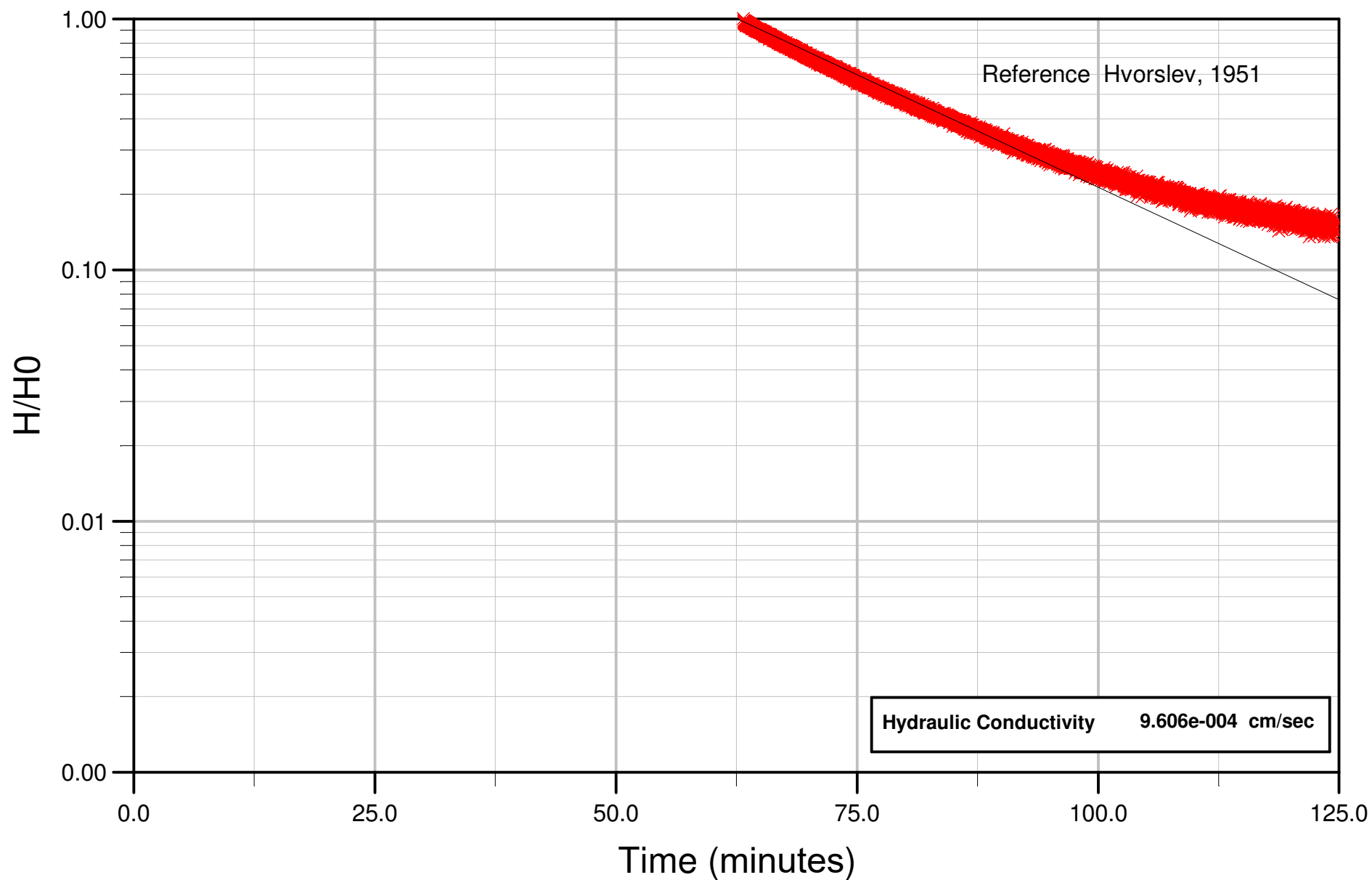
EXB-1 Rising Head Test 1



EXB-2 Falling Head Test 1

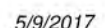


EXB-2 Rising Head Test 1





Groundwater Sampling Logs



5/9/2017





Low Flow Groundwater Sampling Log

Well ID: HW-75

Northing: _____

Easting: _____

Site Name: TaconicSampling Method: PeristalticField Personnel: John GardnerSite Location: Dotter's burghEquipment Used: FA03009Date: 5-15-19Project #: 70557Pump/Controller ID#: FA03059Weather: 50° partly sunny

Well information:

Installed Depth of Well*: 20.00 ft. bmp.Measured Depth of Well*: 19.85 ft. bmp.Depth to Water*: 8.54 ft.Length of Water Column (LWC): 11.31 in.Well Diameter: 2 in.

Well Volume Multipliers:

☐ 1 in. = 0.041 gal/ft☒ 2 in. = 0.163 gal/ft☐ 4 in. = 0.653 gal/ft☐ 6 in. = 1.469 gal/ft☐ 8 in. = 2.611 gal/ft

* Measurement Point:

☒ Well Casing☐ Protective Casing☐ Other: _____Well Volume: 1.8435 gal.Pump Intake Depth*: 17 ft. bmp.Start Purge Time: 1034Initial Observations: Color CloudyOdor NoSheen/Free Product No

indicate units

Elapsed Time (minutes)	Depth to Water (ft bmp)	Temperature (Celsius)	pH (SU)	Specific Conductivity (mS/cm)	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)	Other (Time)
0	8.87	10.4	5.84	0.145	136.4	7.00	OK	100	1034
5	9.04	10.0	5.52	.128	145.1	6.15	OK	220	
10	9.18	9.8	5.51	.126	143.0	6.31	108.3	200	
15	9.18	10.1	5.56	.126	137.7	5.88	95.6	140	
20	9.07	10.2	5.73	.125	127.6	5.87	87.9	140	
25	9.08	10.0	5.68	.125	131.9	6.19	79.4	170	
30	9.12	10.3	5.66	.124	132.6	6.06	55.6	170	
35	9.14	10.6	5.73	.124	131.3	6.15	46.3	170	
40	9.14	10.3	5.73	.124	131.0	6.04	37.6	170	
45	9.14	10.1	5.71	.124	132.8	6.04	42.8	170	
50	9.14	10.3	5.69	.124	134.1	6.13	30.9	170	
55	9.14	10.3	5.76	.124	131.6	5.98	23.6	170	
60	9.14	10.3	5.72	.123	135.1	6.15	19.5	160	
65	9.14	10.4	5.72	.123	135.7	5.99	18.0	170	
70	9.15	10.4	5.75	.123	135.6	6.06	14.4	170	
75	9.15	10.5	5.79	.123	135.1	6.01	12.6	170	
80	9.15	10.8	5.78	.123	136.0	5.98	11.6	170	
85	9.15	10.9	5.81	.123	136.8	5.94	11.1	170	
90	9.15	10.9	5.77	.123	138.2	5.87	11.7	170	
95									
Stabilization	$\Delta \leq 0.3'$	$\pm 3\%$	± 0.1	$\pm 3\%$	± 10 mV	$\pm 10\%$ if > 2.0 mg/L	$\pm 10\%$ if > 5 NTU	$100 \leq X \leq 500$	

End Purge Time: 1204

DO Titration = _____ mg/L

Total volume of groundwater purged: 4 gal.Final Observations: Color ClearOdor noneSheen/Free Product noneSample ID: MW-7-051519Sample Time: 1210

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered?	Preservative	Laboratory
250mL	Plastic	4	no	none	
250mL	plastic	1	no	~~nitric acid~~	
250mL	Glass amber	3	no	none	
1L	Glass amber	2	no	none	
250mL	Plastic	1	no	C ₆ H ₈ O ₆	
Notes: 40mL	Glass amber	2	no	H ₃ PO ₄	
40mL	Clear Glass	3	no	HCl	
* Collect for TCL/TAL and CN Analyses					
50mL	plastic	1	no	none	

5/9/2017



5/9/2017





Low Flow Groundwater Sampling Log

Well ID: MW-14D

Northing: _____

Easting: _____

Site Name: TaconicSampling Method: PeristalticField Personnel: John GardnerSite Location: PetersburghEquipment Used: FA03039Date: 5-21-19Project #: 70557Pump/Controller ID#: FA00902Weather: Sunny 65°

Well information:

Installed Depth of Well*: 64 ft. bmp.

Measured Depth of Well*: _____ ft. bmp.

Depth to Water*: 1.74 ft.

Length of Water Column (LWC): _____ in.

Well Diameter: 2 in.

Well Volume Multipliers:

☐ 1 in. = 0.041 gal/ft☒ 2 in. = 0.163 gal/ft☐ 4 in. = 0.653 gal/ft☐ 6 in. = 1.469 gal/ft☐ 8 in. = 2.611 gal/ft

* Measurement Point:

☒ Well Casing☐ Protective Casing☐ Other: _____

Well Volume: _____ gal.

Pump Intake Depth*: _____ ft. bmp.

Start Purge Time: 1450Initial Observations: Color clear Odor none Sheen/Free Product no

indicate units

Elapsed Time (minutes)	Depth to Water (ft bmp)	Temperature (Celsius)	pH (SU)	Specific Conductivity ()	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)	Other ()
0	1.74	11.6	8.42	.291	-10	2.5	35.6	300	
5	4.30	11.2	8.23	.245	-35.4	1.35	37.6	200	
10	5.79	11.5	8.22	.247	-61.1	1.50	34.6	200	
15	7.11	11.3	8.22	.246	-86.6	1.68	27.2	200	
20	10.00	10.1	8.22	.245	-117.1	1.70	23.2	500	
25	13.00	10.2	8.27	.246	-132	1.53	31.4	500	
30	14.20	10.0	8.32	.245	-135.2	1.57	23.9	500	
35	16.90	10.4	8.42	.246	-149.8	1.56	25.8	500	
40	18.00	10.6	8.50	.247	-154.5	2.40	24.1	100	
45	18.20	12.8	8.81	.250	-173.6	4.28	22.7	100	
50	18.06	13.0	9.01	.252	-183.1	2.68	22.6	100	
55	17.80	12.2	9.11	.253	-185.4	2.49	27.8	150	
60	17.85	12.1	9.12	.261	-178.8	6.91	28.8	150	
65	17.90	12.4	9.20	.262	-184.2	4.43	27.3	150	
70	17.91	12.6	9.12	.262	-184.5	4.23	22.5	150	
75	17.85	12.8	9.11	.262	-185.9	4.77	22.1	150	
80	17.98	12.1	9.13	.266	-187.1	4.53	21.0	150	
85	18.11	12.2	9.07	.263	-178.7	4.66	20.5	150	pH 9.07
90	18.20	12.1	9.11	.266	-179.5	4.73	21.0	150	
Stabilization $\Delta \leq 0.3'$ $\pm 3\%$ ± 0.1 $\pm 3\%$ ± 10 mV $\pm 10\%$ if > 2.0 mg/L $\pm 10\%$ if > 5 NTU $100 \leq X \leq 500$									

End Purge Time: 1620

DO Titration = _____ mg/L

Total volume of groundwater purged: 60 gal.Final Observations: Color clear Odor none Sheen/Free Product noneSample ID: MW-14D-052114Sample Time: 1625

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered?	Preservative	Laboratory
250ml	Plastic	3	no	none	
250ml	Plastic	1	no	~~none~~ nitric acid	
50 ml	plastic	1	no	none	
40 ml	glass amber	2	no	H3PO4	

Notes: no recharge - pump dry
Low recharge - 150ml sustainable after 16 feet of draw down

5/9/2017

5/9/2017

5/9/2017



Low Flow Groundwater Sampling Log

Well ID: EXB-01

Northing: _____

Easting: _____

Site Name: TAOAC
Site Location: Petersburgh
Project #: 70552Sampling Method: Peristaltic
Equipment Used: FA03039
Pump/Controller ID#: FA00902Field Personnel: John Gardner
Date: 5-20-18
Weather: run 65°

Well information:

Installed Depth of Well*: 83.1 ft. bmp.
Measured Depth of Well*: _____ ft. bmp.
Depth to Water*: 13.94 ft.
Length of Water Column (LWC): _____ in.
Well Diameter: 4.75-6 in.

Well Volume Multipliers:

☐ 1 in. = 0.041 gal/ft
☐ 2 in. = 0.163 gal/ft
☒ 4 in. = 0.653 gal/ft
☒ 6 in. = 1.469 gal/ft
☐ 8 in. = 2.611 gal/ft

* Measurement Point:

☐ Well Casing
☒ Protective Casing
☐ Other: _____Well Volume: 85 gal.Pump Intake Depth*: 75 ft. bmp.Start Purge Time: 9:55Initial Observations: Color clear Odor none Sheen/Free Product none

indicate units

Elapsed Time (minutes)	Depth to Water (ft bmp)	Temperature (Celsius)	pH (SU)	Specific Conductivity ()	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)	Other ()
0	13.94	13.5	7.05	.249	23.1	1.57	11.12	350	
5	14.35	13.3	7.12	.249	-54.7	1.70	12.05	350	
10	14.70	13.2	7.47	.248	-133.7	.62	8.90	350	
15	15.10	13.6	7.79	.248	-185.8	.48	10.24	350	
20	15.30	13.5	7.74	.248	-196.5	.48	9.11	350	
25	15.50	14.0	7.77	.248	-200.9	.59	10.07	250	
30	15.67	14.0	7.86	.248	-207.5	.57	9.75	250	
35	15.92	14.2	7.94	.248	-220.7	.36	8.58	250	
40	16.06	14.2	7.92	.248	-223.7	.35	8.13	250	
45	16.36	14.2	7.92	.248	-235.3	.43	10.88	250	14.3
50	16.57	14.1	7.97	.248	-242.0	.59	10.36	150	
55	16.72	14.7	7.97	.249	-239.9	.60	8.54	150	
60	16.85	15.0	7.98	.249	-247.2	.83	8.88	200	
65	16.93	14.9	8.03	.248	-253.6	.82	9.79	200	
70	17.08	14.9	8.03	.248	-249.1	.48	10.24	200	
75	17.16	15.0	7.99	.248	-244.3	.45	9.09	200	
80	17.32	15.0	8.00	.248	-247.0	.50	9.07	200	
85	17.43	15.0	8.00	.248	-251.7	.54	9.89	200	
90									
Stabilization $\Delta \leq 0.3'$ $\pm 3\%$ ± 0.1 $\pm 3\%$ ± 10 mV $\pm 10\%$ if > 2.0 mg/L $\pm 10\%$ if > 5 NTU $100 \leq X \leq 500$									

End Purge Time: 1120

DO Titration = _____ mg/L

Total volume of groundwater purged: 0 gal.Final Observations: Color clear Odor none Sheen/Free Product noneSample ID: EXB-01-052019Sample Time: 1125

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered?	Preservative	Laboratory
250 mL	Plastic	3	no	none	
250 mL	Plastic	1	no	none nitric acid	
50 mL	Plastic	1	no	none	
40 mL	glass amber	2	no	H3PO4	

Notes:



Low Flow Groundwater Sampling Log

Well ID: EXP-02

Northing: _____

Easting: _____

Site Name: TaconicSampling Method: Dr. StaticField Personnel: John GardnerSite Location: PetersburghEquipment Used: FA03039Date: 5-21-14Project #: 70557Pump/Controller ID#: FA00902Weather: Sunny 65°

Well information:

Installed Depth of Well*: _____ ft. bmp.

Measured Depth of Well*: 99.0 ft. bmp.Depth to Water*: 2.03 ft.Length of Water Column (LWC): 97.96 in.Well Diameter: 4.25 in.

Well Volume Multipliers:

☐ 1 in. = 0.041 gal/ft☐ 2 in. = 0.163 gal/ft☒ 4 in. = 0.653 gal/ft☒ 6 in. = 1.469 gal/ft☐ 8 in. = 2.611 gal/ft

* Measurement Point:

☐ Well Casing☒ Protective Casing☐ Other: _____Well Volume: ~130 gal.Pump Intake Depth*: 90 ft. bmp.Start Purge Time: 10:10 10:20Initial Observations: Color ClearOdor NoneSheen/Free Product None

indicate units

Elapsed Time (minutes)	Depth to Water (ft bmp)	Temperature (Celsius)	pH (SU)	Specific Conductivity ()	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)	Other ()
0	2.18	9.3	9.92	.132	19.5	2.25	42	400	
5	2.33	9.1	9.89	.136	24.9	2.16	63.3	350	
10	2.47	9.5	10.18	.189	30.0	2.06	62.4	350	
15	2.63	9.3	10.84	.599	27.2	3.25	58.6	350	
20	2.75	9.0	11.46	1.27	14.3	2.57	OR	350	
25	2.87	9.5	11.70	1.36	17.3	1.22	OR	350	
30	2.94	9.7	11.61	.88	17.1	1.49	OR	350	
35	3.00	9.8	10.98	.287	15.9	1.29	OR	350	
40	3.11	9.3	10.19	.182	18.3	.38	OR	350	
45	3.13	9.3	10.05	.182	24.6	2.14	OR	350	
50	3.20	9.4	9.80	.172	25.8	2.94	OR	375	
55	3.21	9.7	9.71	.172	27.8	2.03	106.6	250	
60	3.15	10.1	9.80	.172	20.9	.78	93.6	250	
65	3.10	9.8	9.78	.171	22.1	.40	89.0	250	
70	3.07	10.0	9.72	.171	23.9	.20	87.1	250	
75	3.03	9.8	9.65	.170	26.4	.13	91.3	250	
80	2.99	9.6	9.58	.169	29.9	.11	81.2	250	
85	2.96	9.8	9.60	.169	28.9	.10	84.6	250	
90	2.94	9.9	9.60	.169	29.4	.09	76.3	250	
95	2.92	10.5	9.63	.170	29.4	.06	71.9	250	
Stabilization	$\Delta \leq 0.3'$	$\pm 3\%$	± 0.1	$\pm 3\%$	± 10 mV	$\pm 10\%$ if > 2.0 mg/L	$\pm 10\%$ if > 5 NTU	$100 \leq X \leq 500$	

End Purge Time: _____

DO Titration = _____ mg/L

Total volume of groundwater purged: _____ gal.

Final Observations: Color _____ Odor _____ Sheen/Free Product _____

Sample ID: _____ Sample Time: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered?	Preservative	Laboratory

Notes: became very turbid after 15 minutes



Grain Size Results

Soil Boring Grain Size Sample Results
Taconic - Petersburg, New York

Location Sample ID Sample Date Units	% Passing Sieve U.S. Std. 3-inch (75 mm)	% Passing Sieve U.S. Std. 1.5-inch (37.5 mm)	% Passing Sieve U.S. Std. 0.75-inch (19 mm)	% Passing Sieve U.S. Std. No. 4 (4.75mm)	% GRAVEL (Pass 3" and Retained on No. 4)	% Passing Sieve U.S. Std. No. ~6 (3.35mm)	% Passing Sieve U.S. Std. No. 8 (2.36mm)	% Passing Sieve U.S. Std. No. 16 (1.18mm)	% Passing Sieve U.S. Std. No. 30 (0.60mm)	% Passing Sieve U.S. Std. No. 50 (0.30mm)	% Passing Sieve U.S. Std. No. 100 (0.15mm)	% Passing Sieve U.S. Std. No. 200 (0.075mm)	% SAND (Pass No. 4 and Retained on No. 200)	% Finer than 0.064 mm	% Finer than 0.050 mm	% Finer than 0.020 mm	% Finer than 0.005 mm	% SILT (Pass No. 200 and <0.005 mm)	% Finer than 0.002 mm	% Finer than 0.001 mm	% Clay (<0.005 mm)
EXB-1 EXB1-8.7-11.6 09/26/2018	100.0	100.0	100.0	66.7	33.3	61.0	55.6	46.2	38.4	30.6	23.5	18.8	47.9	18.0	16.0	12.0	5.0	13.8	3.0	2.0	5.0
EXB-1 EXB1-11.6-13.6 09/26/2018	100.0	100.0	100.0	88.1	11.9	83.4	78.1	73.5	69.2	64.2	62.2	60.5	27.6	58.0	54.0	44.0	9.0	51.5	8.0	7.0	9.0
EXB-1 EXB1-36.0-37.7 09/26/2018	100.0	100.0	100.0	94.2	5.8	87.3	74.4	74.4	74.4	74.2	74.1	74.0	20.2	73.0	71.5	64.0	30.0	44.0	9.0	0.5 U	30.0
MW-16D SB-MW-16D-24.0-24.25.04132019 04/13/2019	100.0	100.0	100.0	100.0	0.0	99.9	99.9	99.9	99.9	99.7	99.2	97.0	23.0	96.0	92.5	76.0	23.0	74.0	12.0	5.0	23.0
MW-10D SB-MW-10D-27.3-041519 04/15/2019	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	99.9	99.8	99.3	97.9	2.1	85.0	56.0	28.0	7.5	90.4	4.0	3.0	7.5
MW-5S MW-5S-10.0-042919 04/29/2019	100.0	80.3	75.9	53.1	46.9	49.0	45.3	38.3	32.1	26.3	21.8	18.7	34.4	18.5	18.0	14.0	10.0	8.7	7.5	4.0	10.0
MW-6S MW-6S-5.2-042919 04/29/2019	100.0	100.0	57.0	39.5	60.5	33.0	27.4	15.8	8.8	5.8	4.6	4.0	35.5	4.5	5.0	4.0	2.0	2.0	1.5	1.0	2.0

Notes:
1. Results reported in percent (%).
2. Grain size analysis run by Eurofins Lancaster Laboratories Environmental, LLC of Lancaster, Pennsylvania.