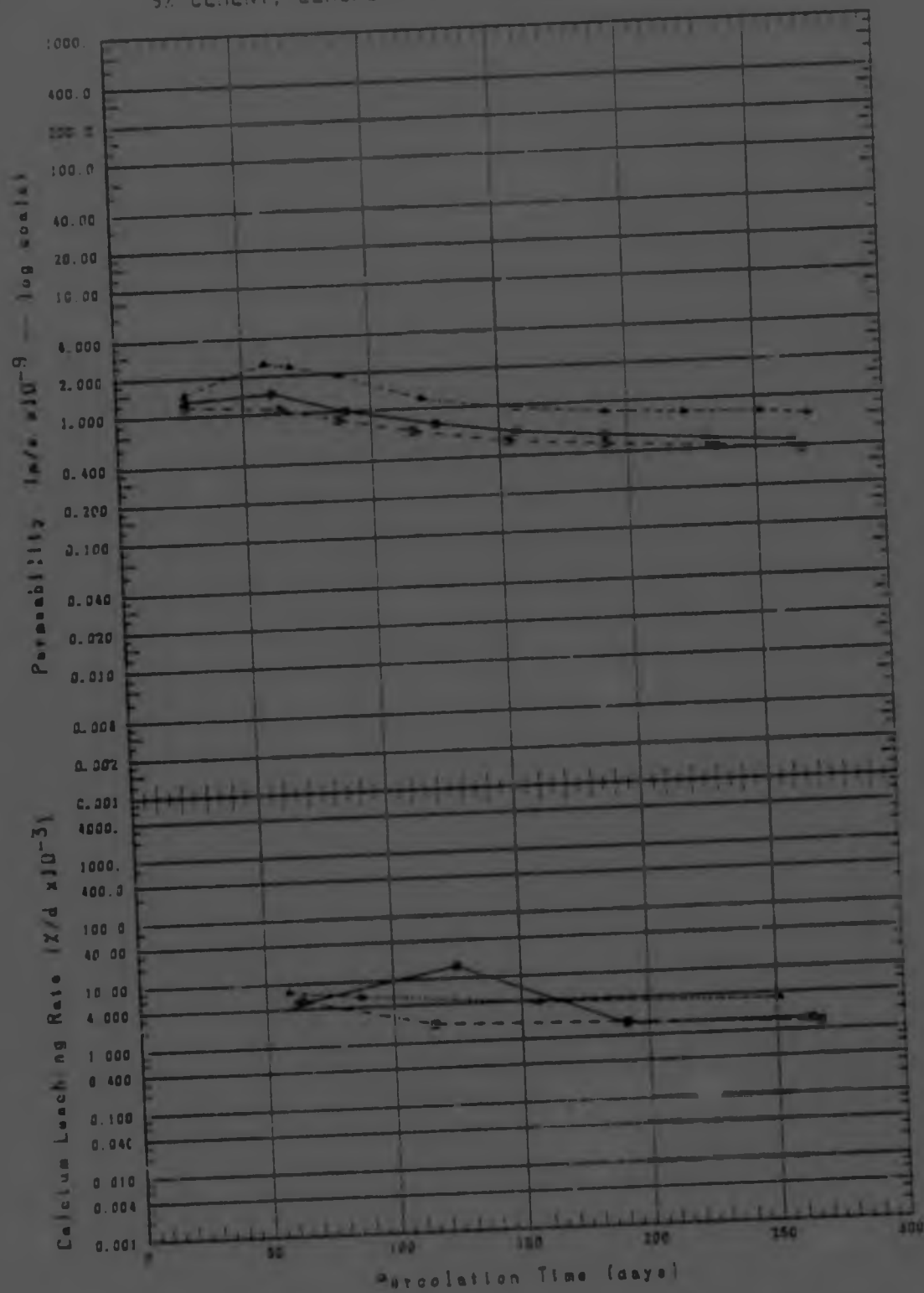
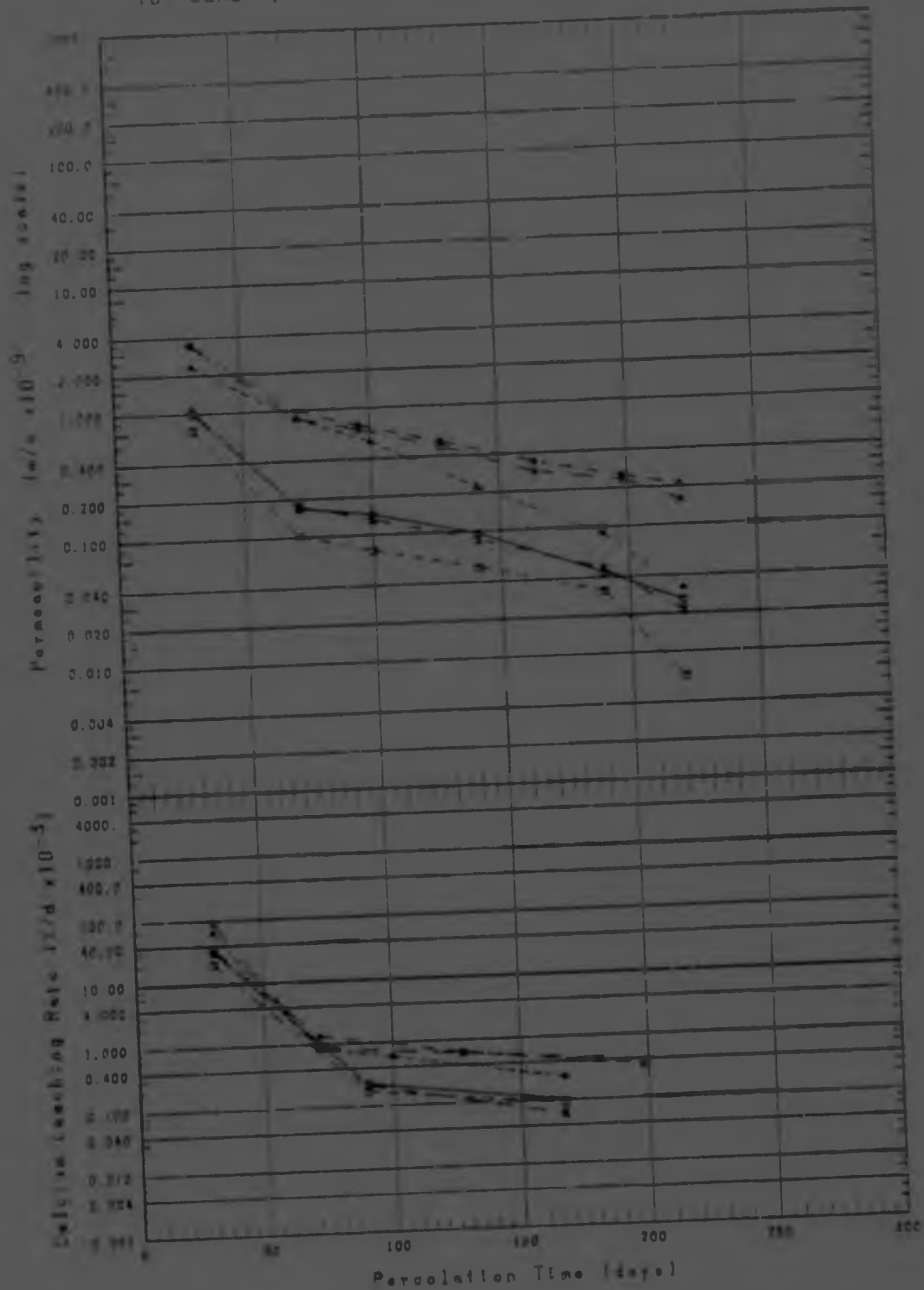


GRAPH D.21
5% CEMENT, LEACHED WITH MIDDELBURG RESERVOIR WATER



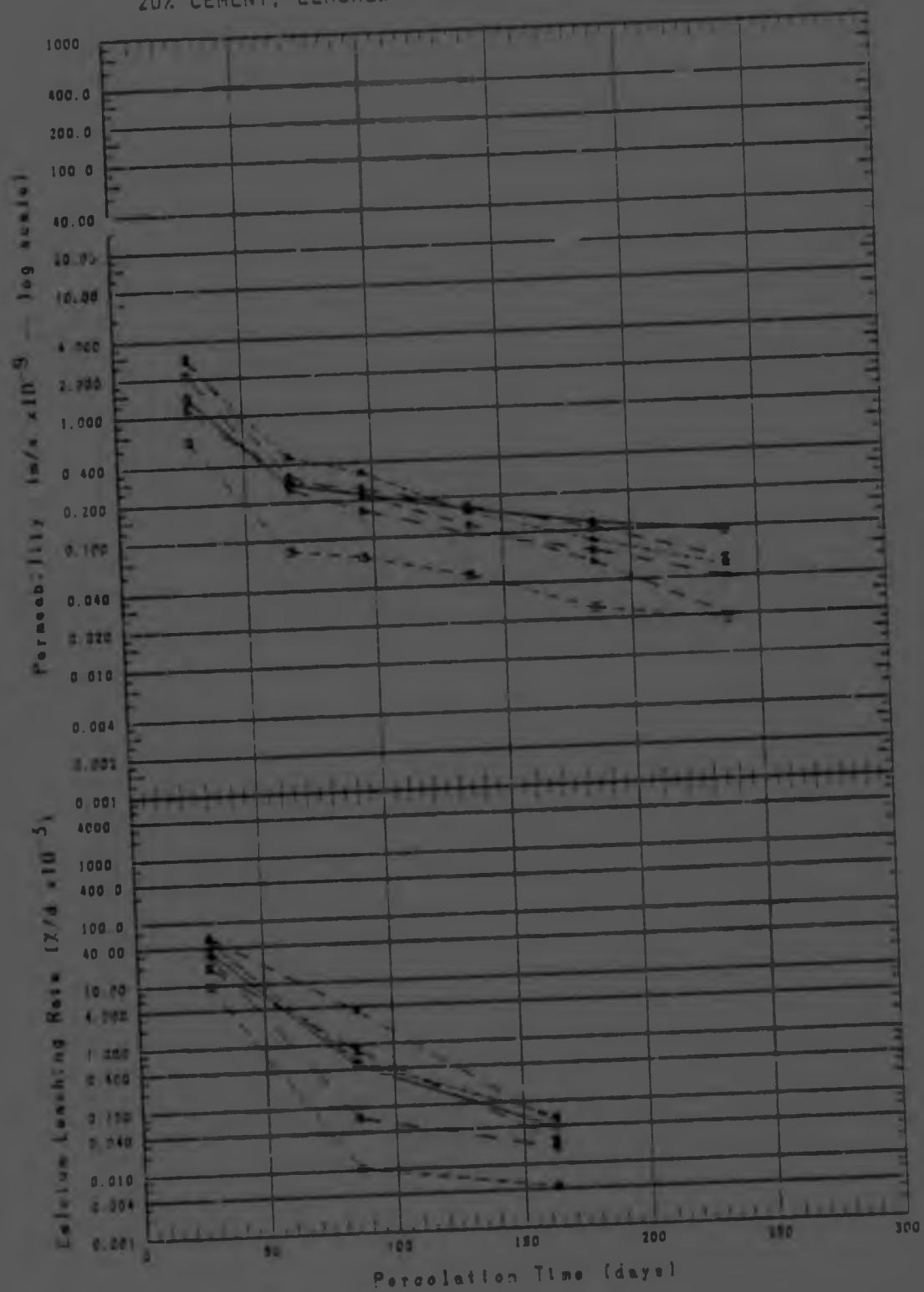
Specimen #	Inc %	Int %/d	Ctl %/d	Pen mm	Flow l
1-05/49	13.306	-.0202	-.05952	.70	1.090
15-05/49	13.306	-.0202	-.05952	2.30	1.621
11-05/49	13.302	-.0871	.001533	.95	.930
Average	13.355	-.0008	-.04212	1.32	1.210

GRAPH D.22
10" CEMENT, LEACHED WITH MIDDLEBURG #25/100 WATER



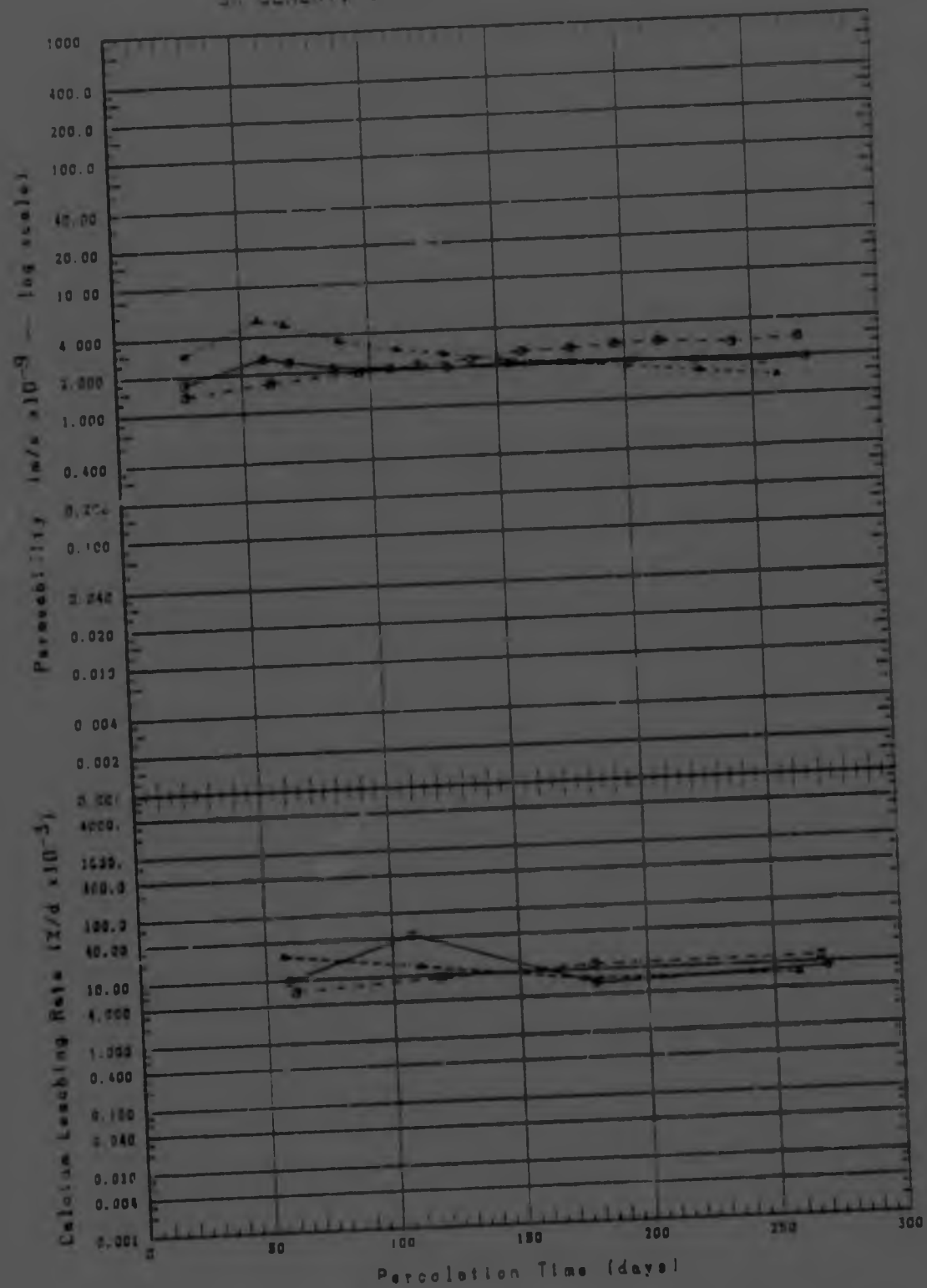
Specimen #	Imo %	Int %/d	Ctl %/d	Pen mm	Flow l
19-10/42	13.378	N/A	N/A	N/A	.382
2-10/42	12.979	.02627	-.03003	N/A	.934
9-10/42	13.045	.05028	-.00891	N/A	.257
16-10/42	13.225	.04129	-.01681	N/A	1.399
23-10/42	13.181	.06217	.006156	N/A	.563
6-10/42	11.943	.03752	-.02004	N/A	1.344
Average	12.918	.0374	-.01169	N/A	0.800

GRAPH D.23
20% CEMENT, LEACHED WITH MIDDLEBURG RESERVOIR WATER



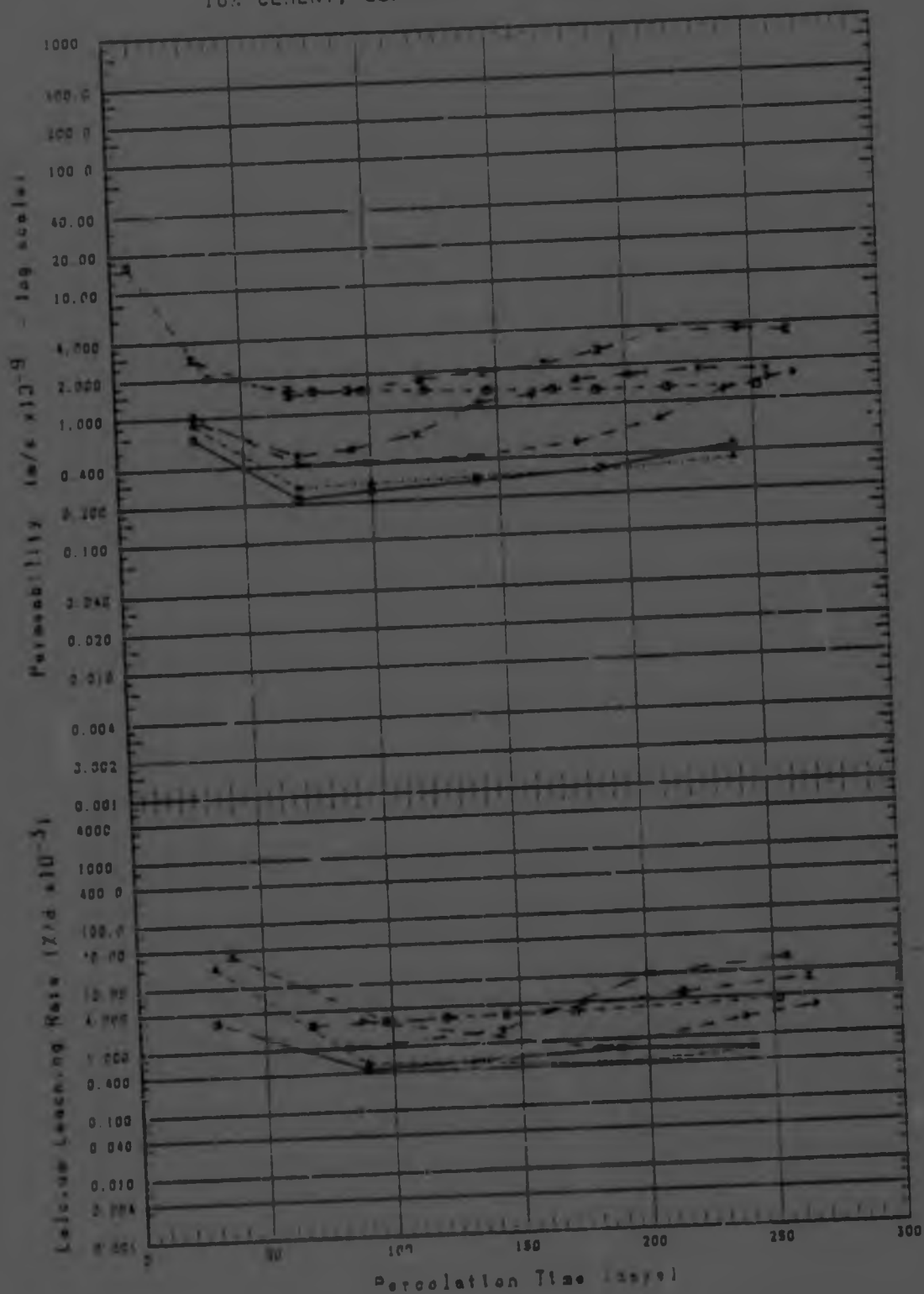
Specimen	Ino %	Int %/d	Ctl %/d	Pen mm	Flow l
1=20/46	13.107	.04880	-.00658	.05	.539
8=20/46	12.887	N/A	N/A	.05	.914
15=20/46	12.867	.04385	-.00828	.00	.214
4=20/46	12.862	.04275	-.01186	.00	.925
11=20/46	12.908	.04985	-.00568	.00	.467
18=20/46	12.970	.04408	-.01070	.00	.694
Average	12.922	.0465	-.00862	.02	.626

GRAPH D.24
 ST CEMENT, LEACHED WITH CARBONATED WATER



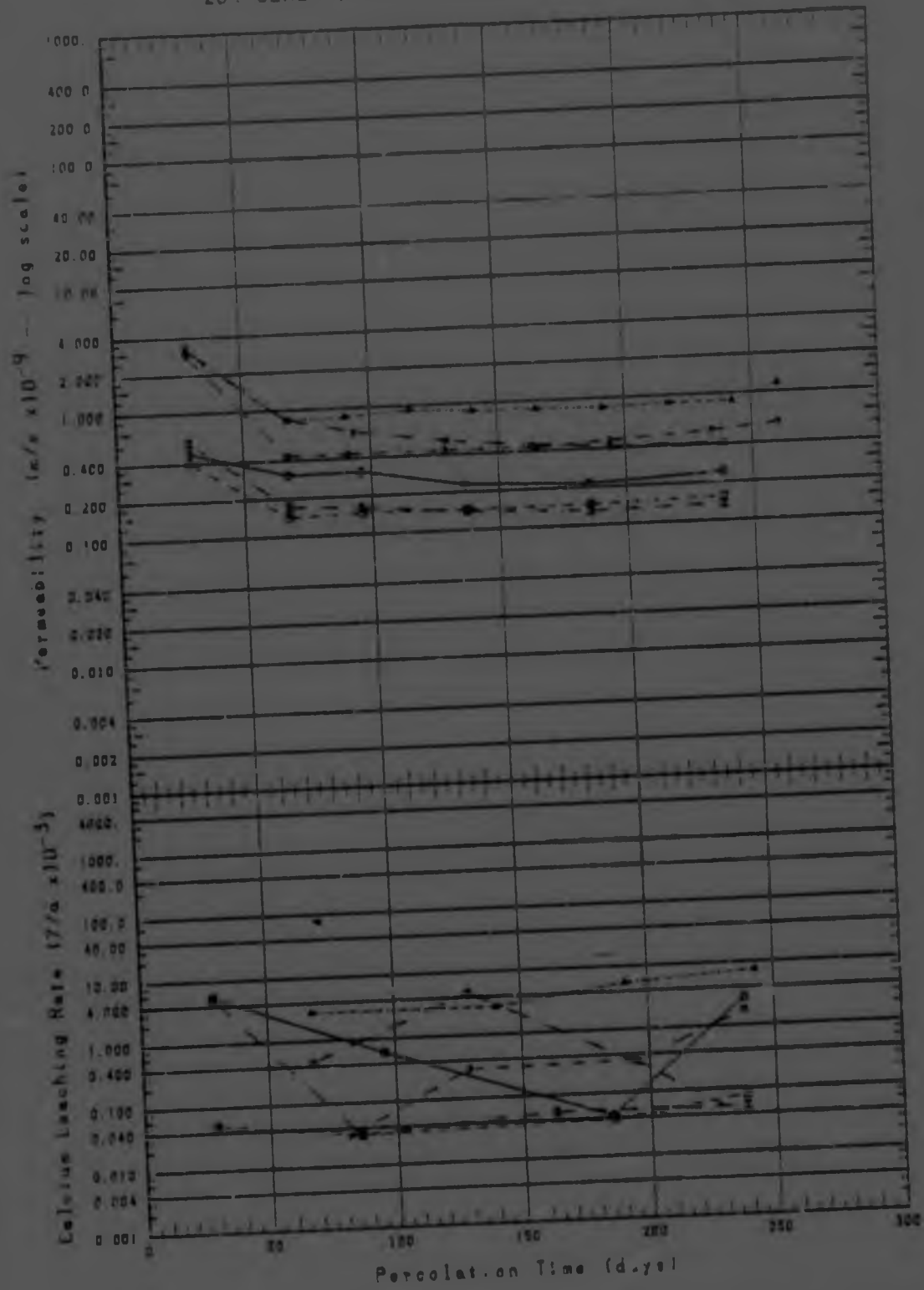
Specimen	Imc %	Int %/d	Ctl %/d	Pen mm	Flow l
8-05/49	13.322	-.0233	-.06228	3.60	2.822
4-05/49	13.365	-.0553	-.09059	5.20	3.356
18-05/49	13.246	-.0323	-.07021	1.95	2.287
Average	13.312	-.0369	-.07408	3.58	2.755

GRAPH D.25
10% CEMENT, LEACHED WITH CARBONATED WATER



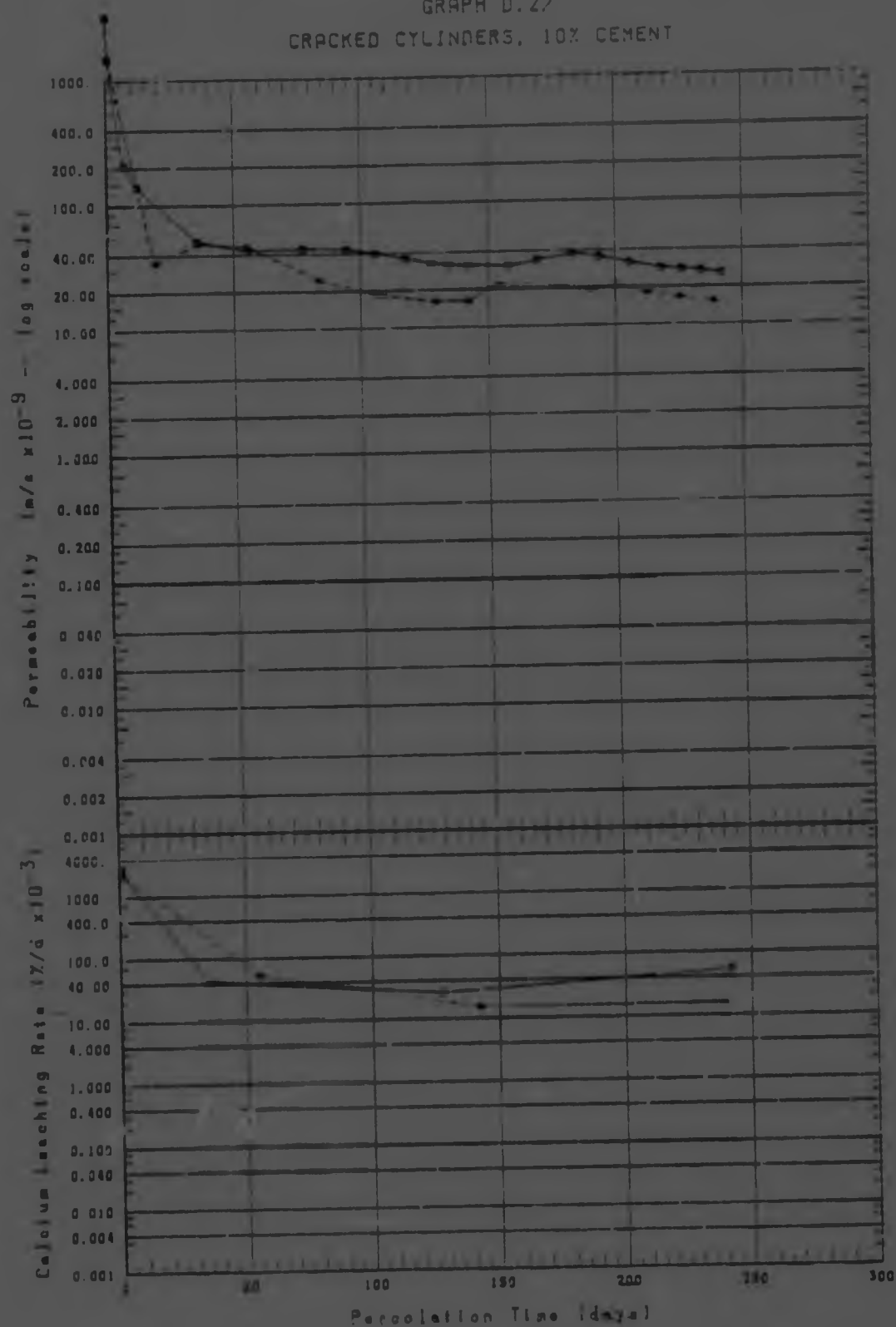
Specimen #	Inc. 2	Int. 2/2	Oil 2/2	Pen. mm	Flow l
7=10/42	13.229	.04058	-.00692	.48	.508
14=10/42	13.221	.04346	-.00639	.95	.554
21=10/42	13.203	.01446	-.03191	2.05	2.840
4=10/42	12.854	.02950	-.01867	.20	.949
11=10/42	13.009	.00574	-.03959	2.65	3.268
18=10/42	13.254	.03466	-.01411	.15	1.486
Average	13.128	.0281	-.01993	1.08	1.596

GRAPH D.26
20% CEMENT, LEACHED WITH CARBONATED WATER



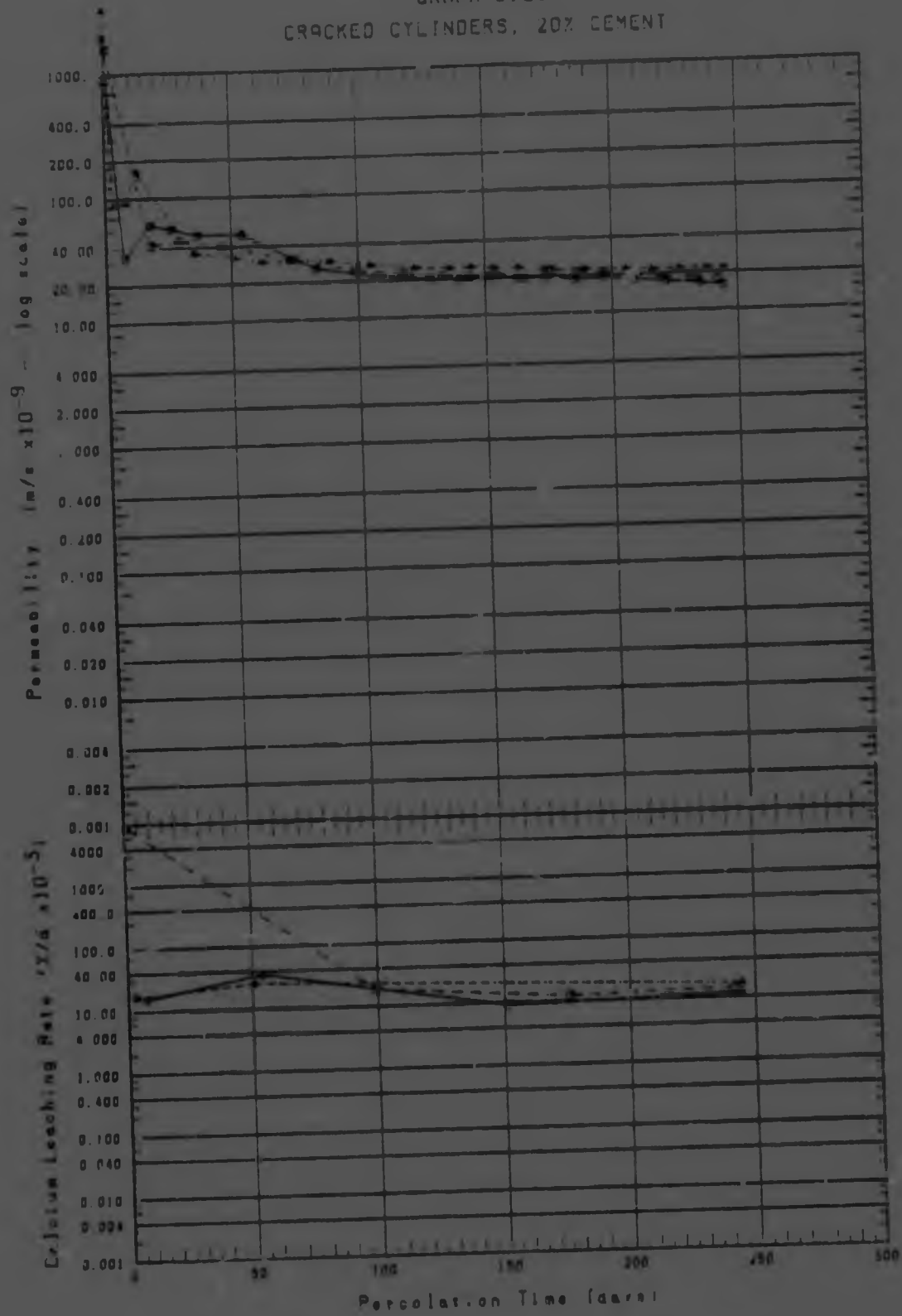
Specimen	Imc %	Int %/d	Ctl %/d	Pen mm	Flow l
13-20/46	13.032	.04940	-.00589	.00	.378
2-20/46	12.879	.02887	-.02587	1.90	1.724
9-20/46	12.883	.04901	-.00822	.00	.257
18-20/46	12.908	.03587	-.01766	.45	1.248
5-20/46	12.886	.05056	-.00467	1.90	.302
12-20/46	13.027	.03044	-.02239	.30	1.397
Average	12.936	.0403	-.01378	.78	.884

GRAPH D.27
CRACKED CYLINDERS, 10% CEMENT



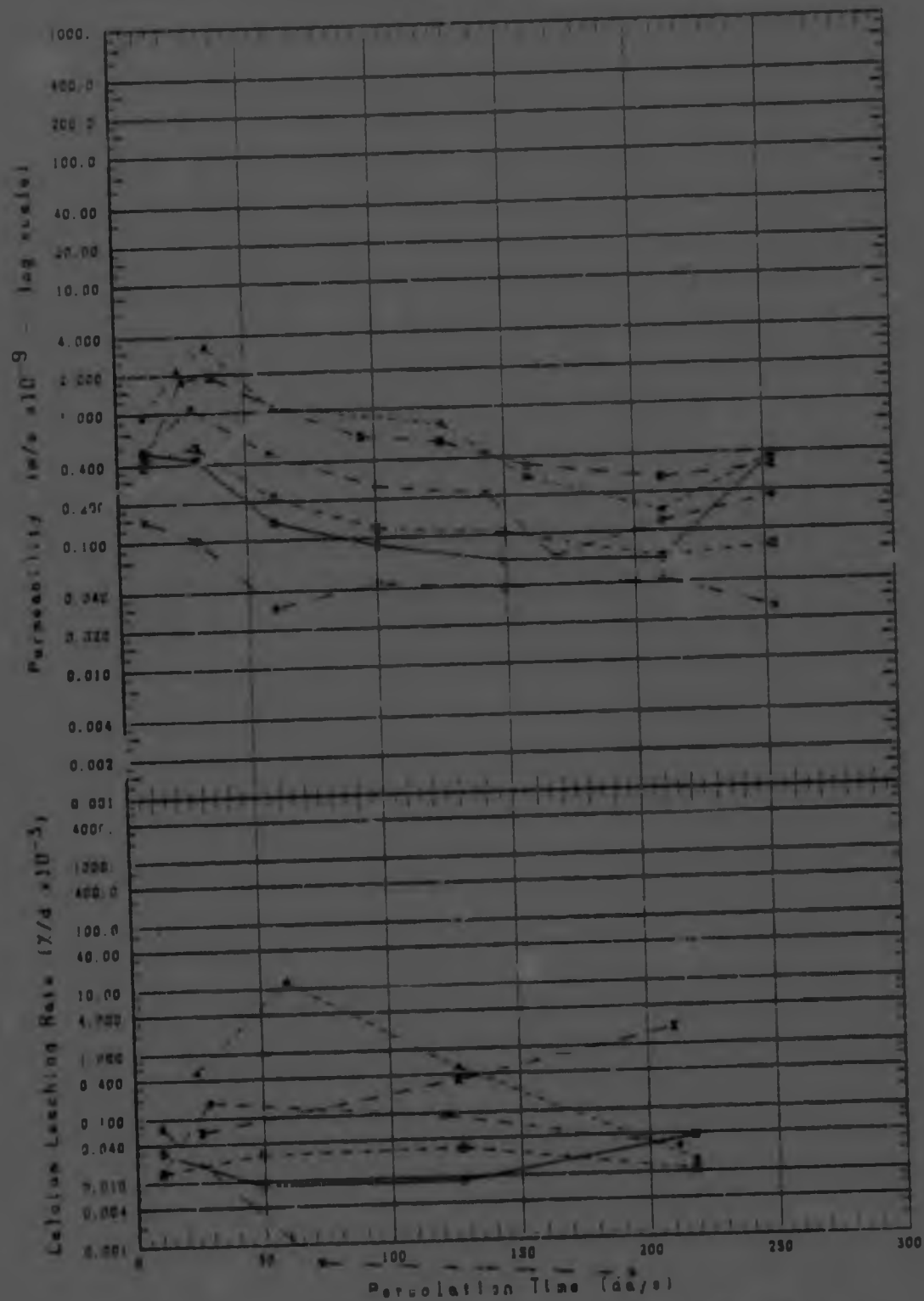
Specimen #	Ino %	Int %/d	Cil %/d	Pen mm	Flow l
13-10/55	13.325	- .1652	- .19720	N/A	N/A
9-10/56	13.289	- .1076	- .14310	N/A	N/A
Average	13.305	- .1364	- .17015		

GRAPH D.28
CRACKED CYLINDERS, 20% CEMENT



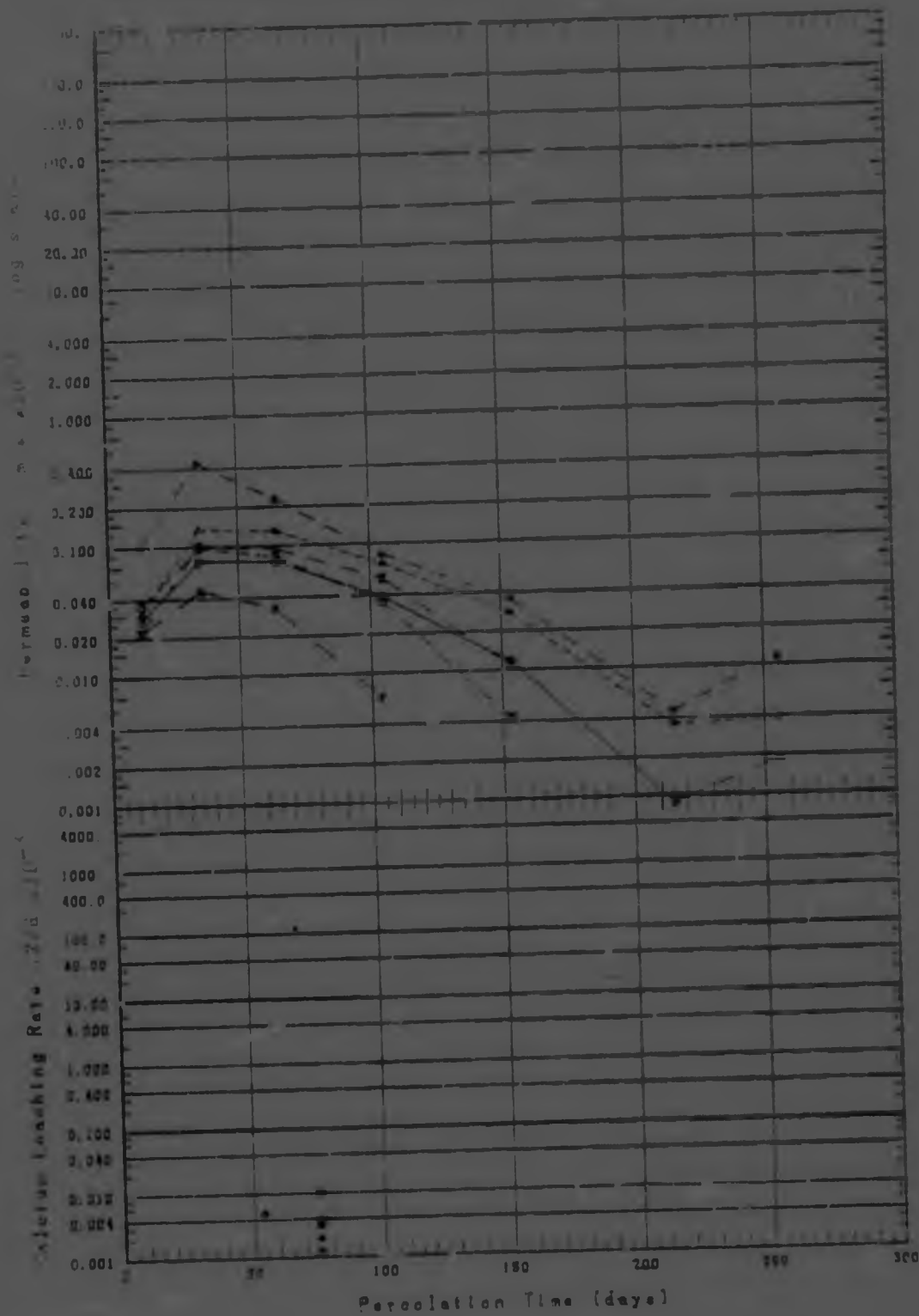
Specimen #	Inc %	Int %/d	Ctl %/a	Pen mm	Flow l
19-20/53	13.110	-.0535	-.09911	N/A	N/A
9-20/53	12.983	-.0695	-.11307	N/A	N/A
6-20/53	13.042	-.0992	-.13692	N/A	N/A
Average	13.045	-.0741	-.01170	-	-

GRAPH 29
MICROCONCRETE, 18.2% CEMENT, C/W 1.0



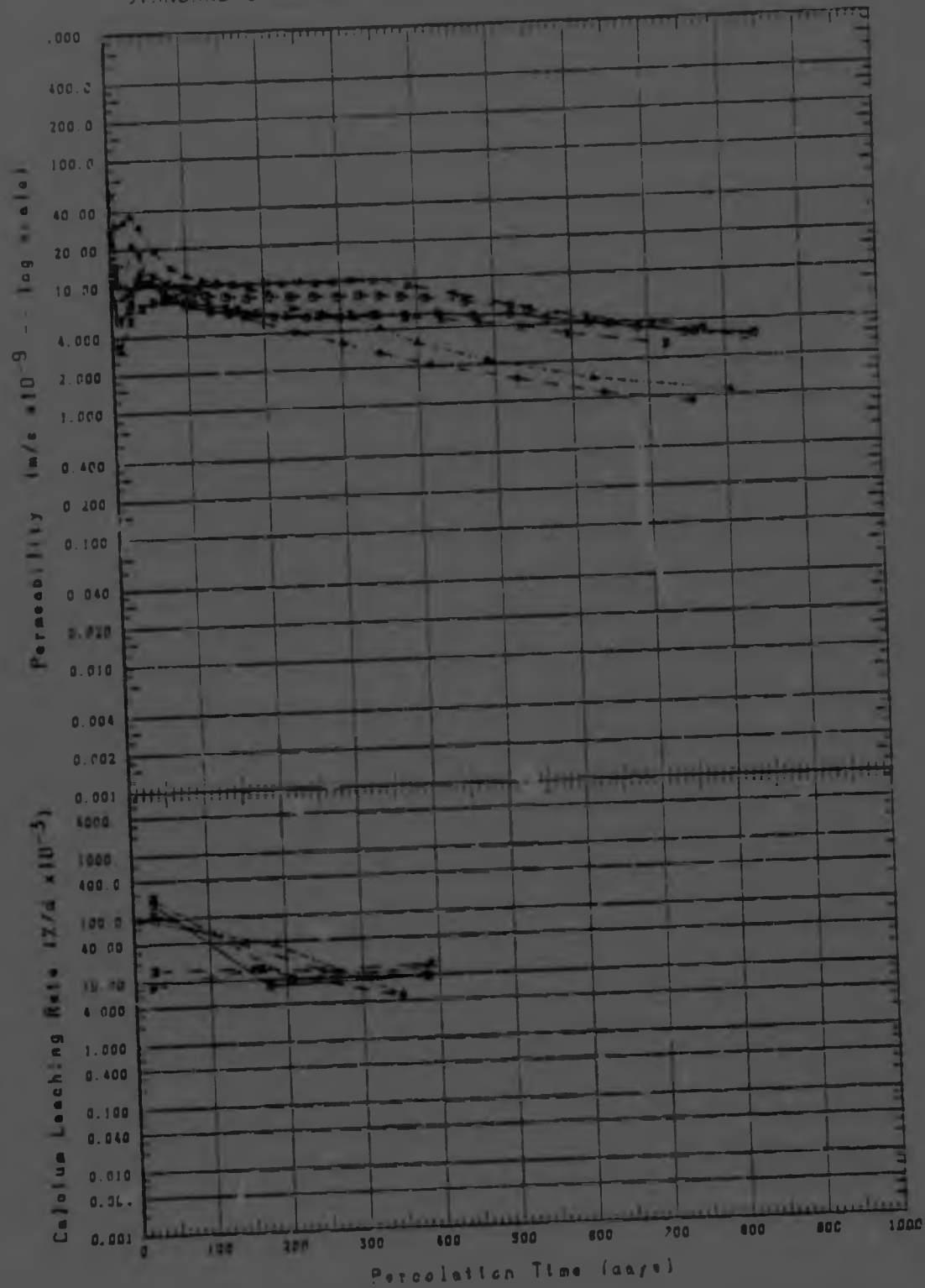
Specimen #	Imo %	Int X/d	Ctl X/d	Pen %	Flow l
25=1.0/81	11.437	-	-	.00	.199
2=1.0/81	12.805	-	-	.00	N/A
11=1.0/81	14.198	-	-	.00	.213
20=1.0/81	12.192	-	-	.00	.386
23=1.0/81	13.035	-	-	.00	.269
6 20/81	12.421	-	-	.00	.065
Average	12.530	-	-	.00	.430

GRAPH D.30
MICROCONCRETE, 22.0% CEMENT, C/A 1.2



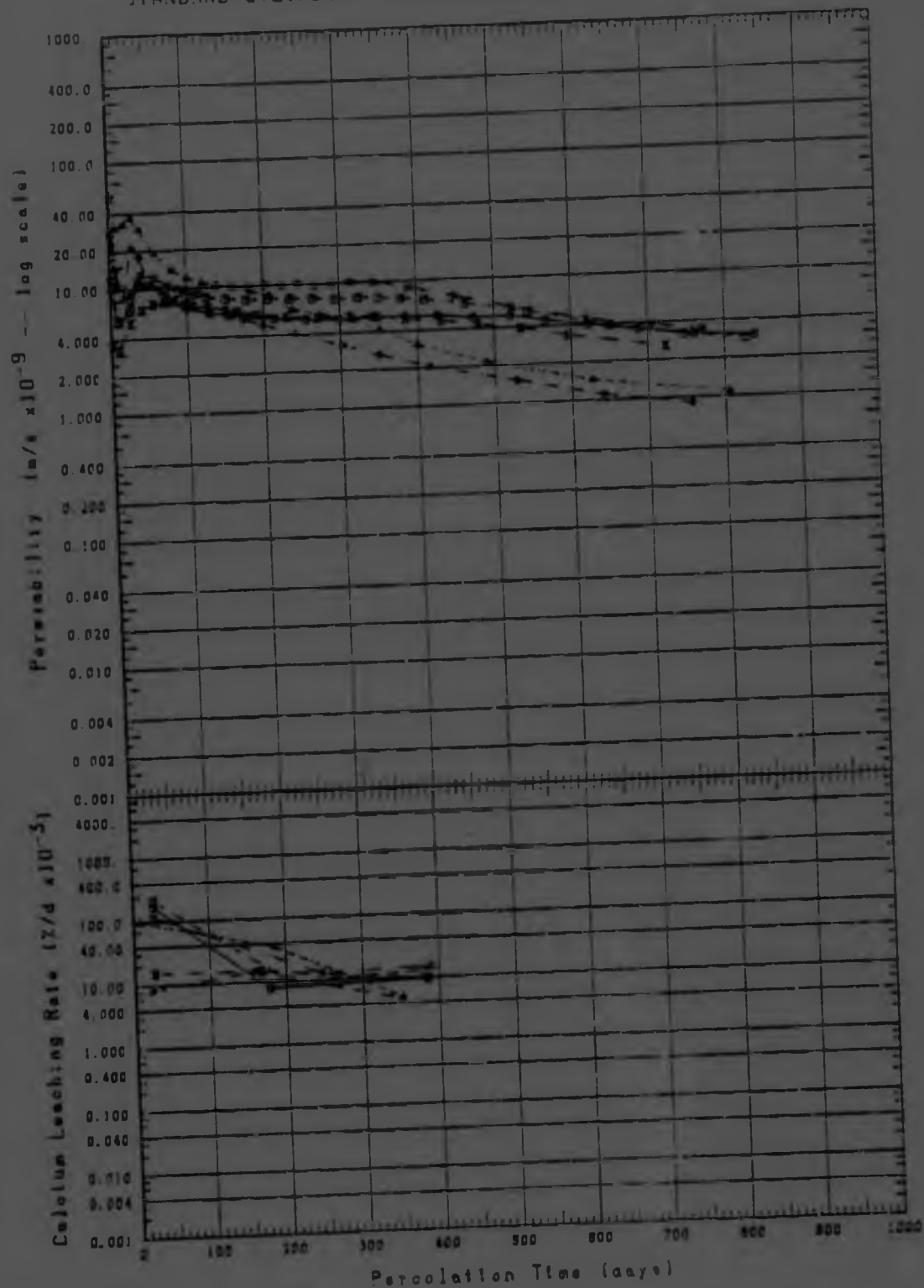
Specimen #	Int. Z	Int. Z/d	Cil. Z/a	Pen. mm	Flow l
25=1.2/77	11.310	N/A	N/A	.00	.036
2=1.2/77	11.433	N/A	N/A	.00	.064
11=1.2/77	11.843	N/A	N/A	.00	.037
20=1.2/77	11.533	N/A	N/A	.00	.126
29=1.2/77	11.256	N/A	N/A	.00	.044
6=1.2/77	11.448	N/A	N/A	.00	.015
Average	11.471			2.00	0.054

GRAPH D.51
STANDARD CYLINDERS, 129 WEEK LEACH PERIOD, 10% CEMENT



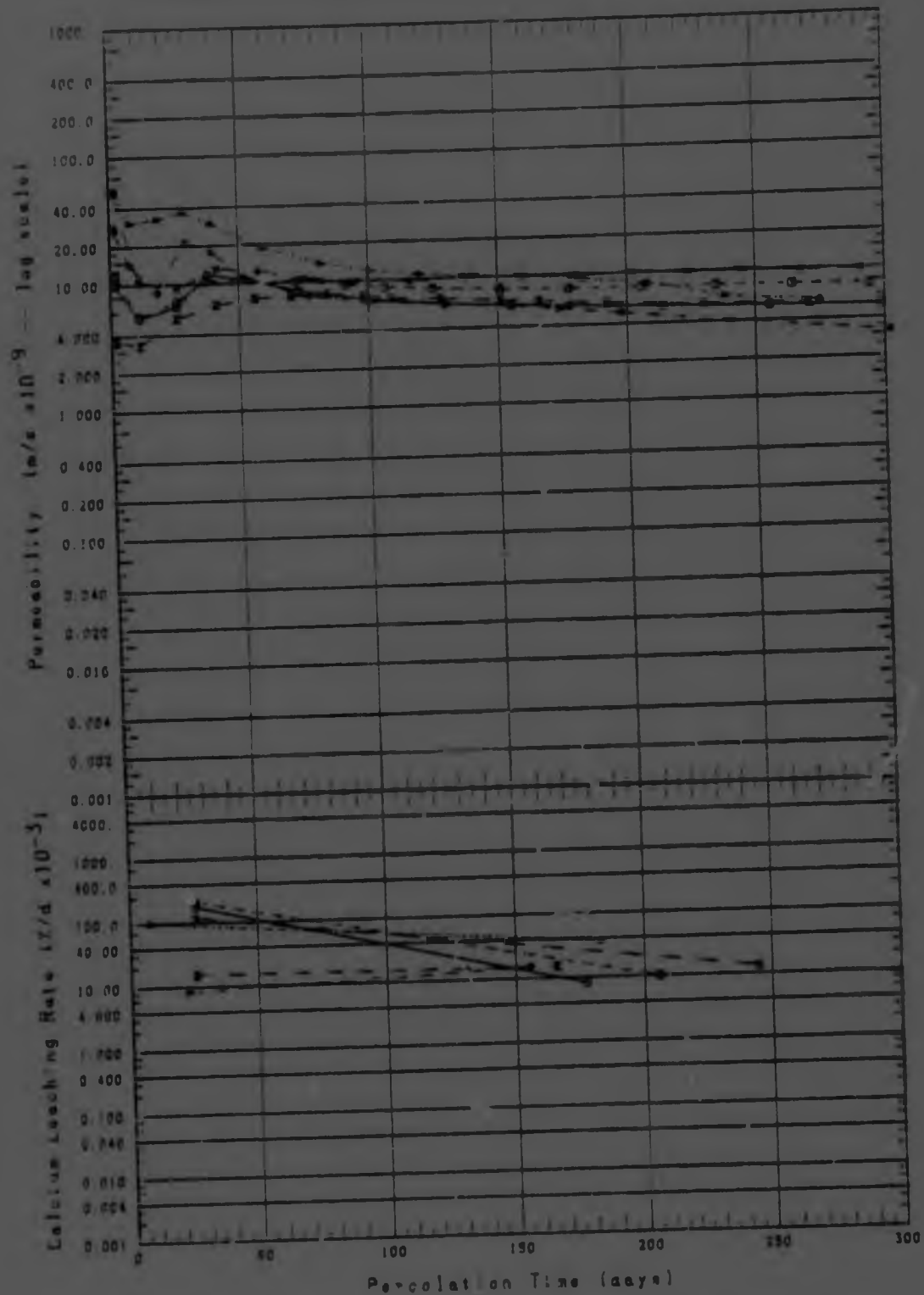
Specimen	Inc %	Int %/d	Cil %/d	Pen mm	Flow l
4=10-09	13.208	-.0302	-.04143	5.95	21.013
1=10-09	13.739	-.0402	-.04971	10.60	25.305
11=10/09	13.396	-.0319	-.04307	4.13	25.347
14=10/09	13.277	-.0307	-.04299	5.95	14.165
18=10/09	18.294	-.0238	-.03704	5.60	18.086
21=10/09	13.404	-.0399	-.05120	6.20	30.096
Average	13.392	-.0309	-.04158	6.44	22.335

GRAPH D.31
STANDARD CYLINDERS, 129 WEEK LEACH PERIOD, 10% CEMENT



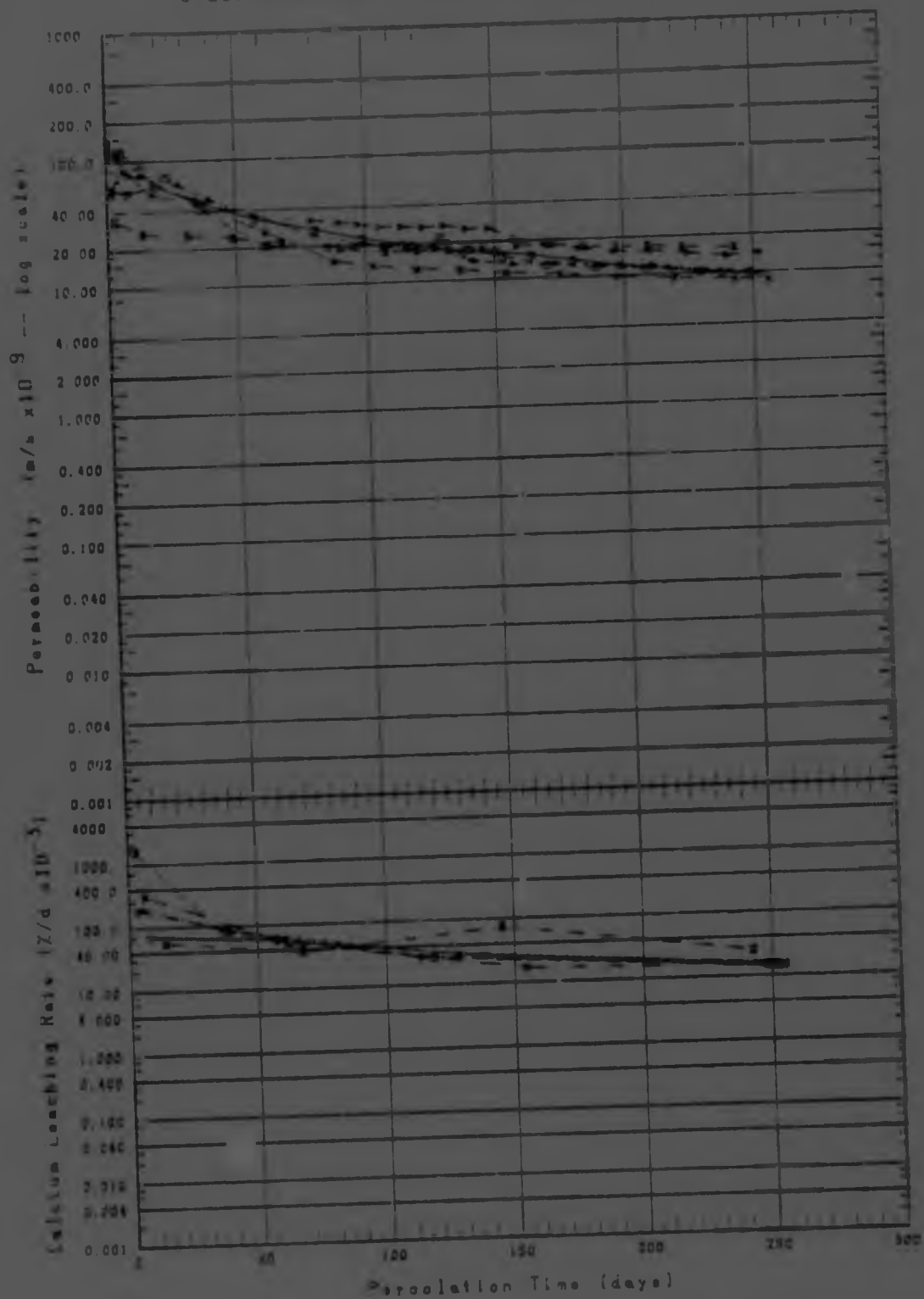
Specimen #	Inc %	Int %/d	Ctl %/d	Pen mm	Flow l
4=10-09	13.208	-.0302	-.04143	5.95	21.013
1=10-09	13.738	-.0402	-.04971	10.60	25.305
11=10/09	13.396	-.0319	-.04307	4.13	25.347
14=10/09	13.277	-.0307	-.04299	5.95	14.185
16=10/09	18.294	-.0238	-.03704	5.60	18.088
21=10/09	13.404	-.0399	-.05120	6.20	30.096
Ave-age	13.392	-.0309	-.04158	6.44	22.335

GRAPH D.31a
STANDARD CYLINDERS, 129 WEEK LEACH PERIOD, 10% CEMENT



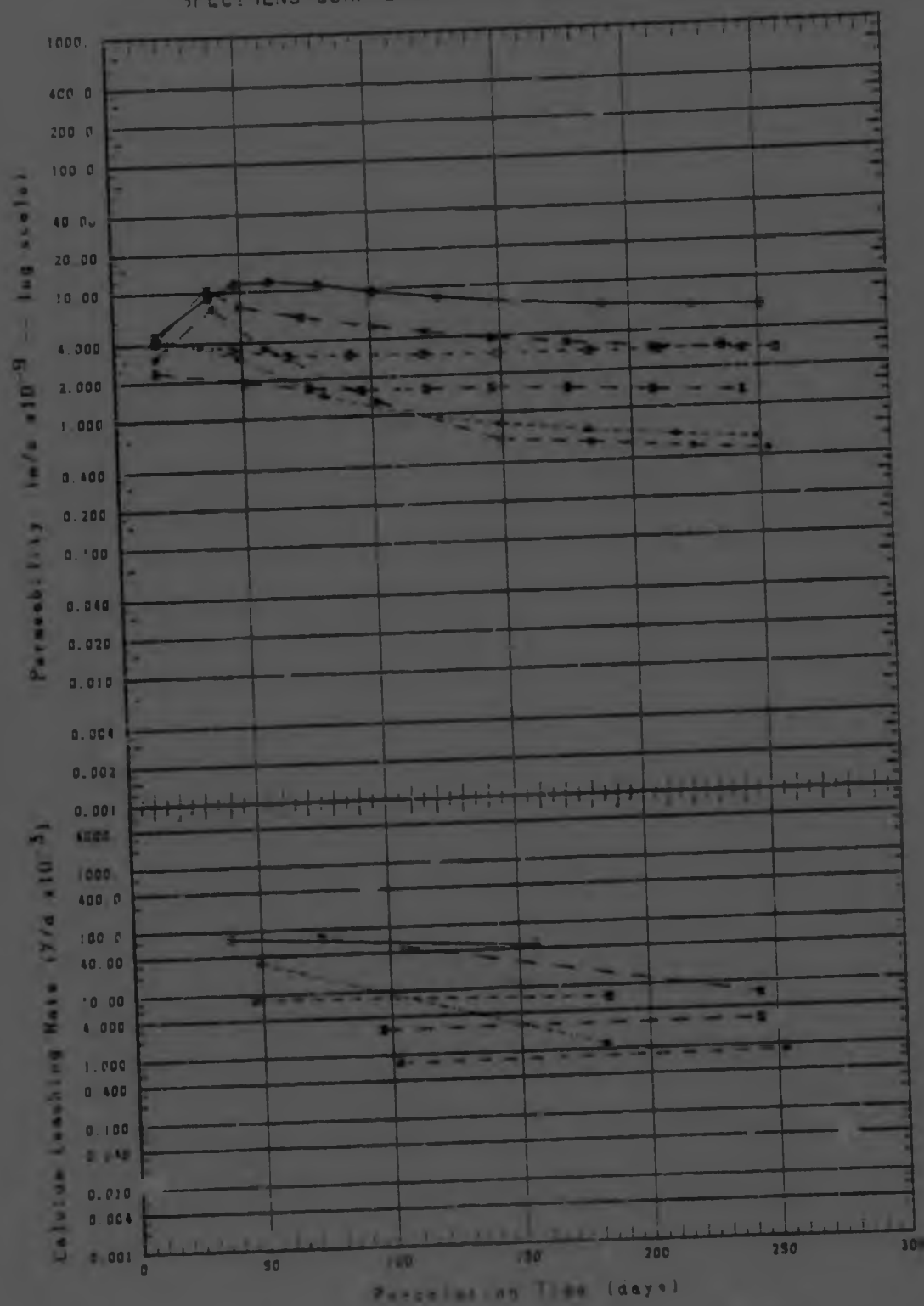
Specimen #	Ino %	Int %/d	Ctl %/a	Pen mm	Flow l
4=10-09	13.208	-.0302	-.04143	5.53	21.013
1=10-09	13.739	-.0402	-.04971	10.60	25.305
11=10-09	13.396	-.0319	-.04307	4.13	25.347
14=10-09	13.277	-.0307	-.04299	5.95	14.165
18=10-09	18.294	-.0238	-.03704	5.80	18.086
21=10-09	13.404	-.0399	-.05120	6.20	30.096
Average	13.392	-.0309	-.04158	6.44	22.335

GRAPH D. 52
SPECIMENS COMPACTED AT 1% BELOW PROCTOR D.F.C.



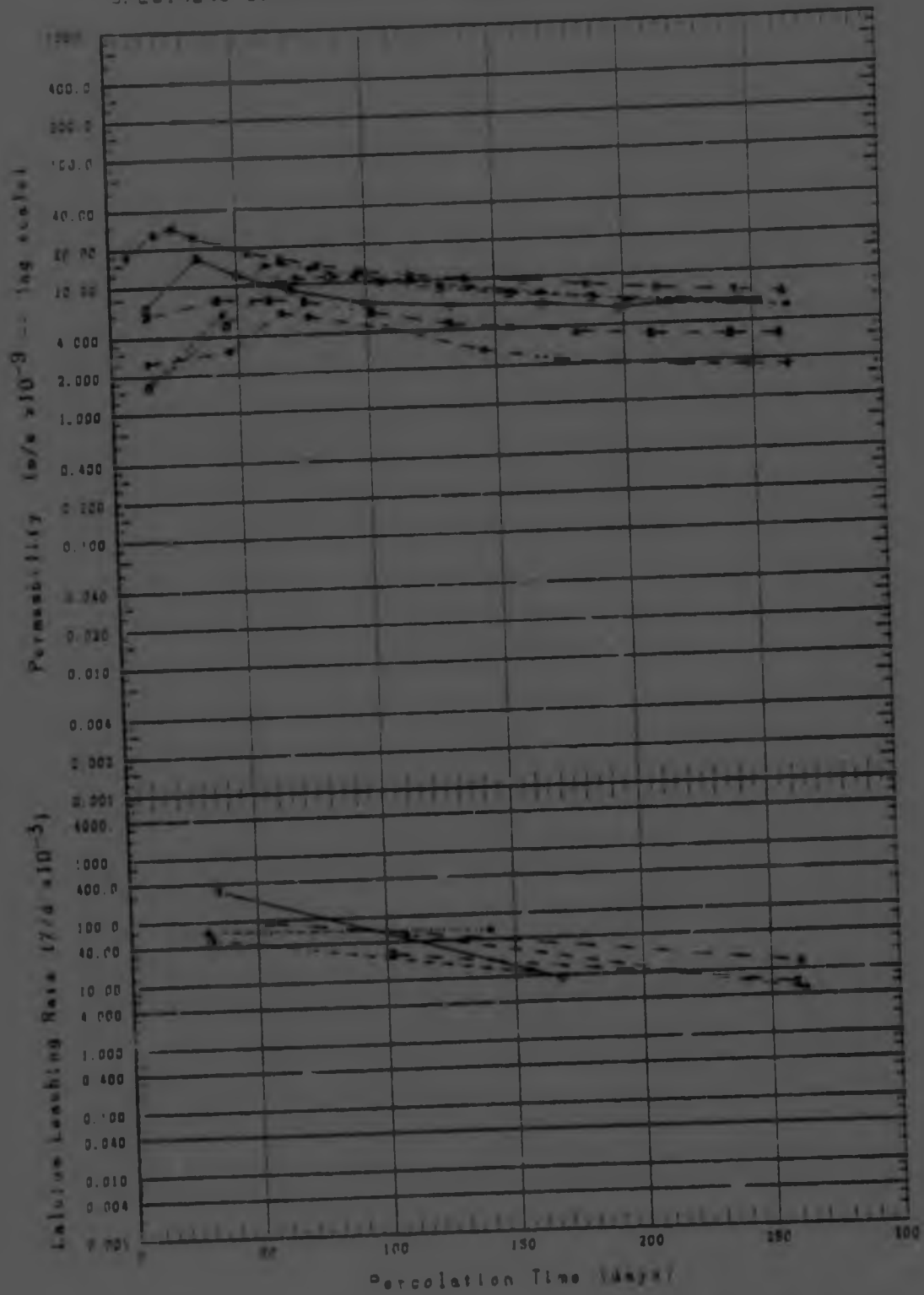
Specimen #	Imc %	Int Z/d	Ctl Z/a	Pen mm	Flow l
1=10a/74	12.095	-.1530	-.18126	9.55	29.889
8=10a/78	12.075	-.1818	-.20680	13.20	32.094
15=10a/74	11.992	-.1775	-.20282	11.35	31.455
22=10a/74	12.070	-.2052	-.22720	12.80	32.504
5=10a/74	11.482	-.1355	-.16584	7.20	24.134
12=10a/74	11.418	-.1447	-.17399	8.55	25.307
Average	11.855	-.1628	-.18893	10.49	30.073

GRAPH D.33
SPECIMENS COMPACTED AT 1% ABOVE PROCTOR O.M.C.



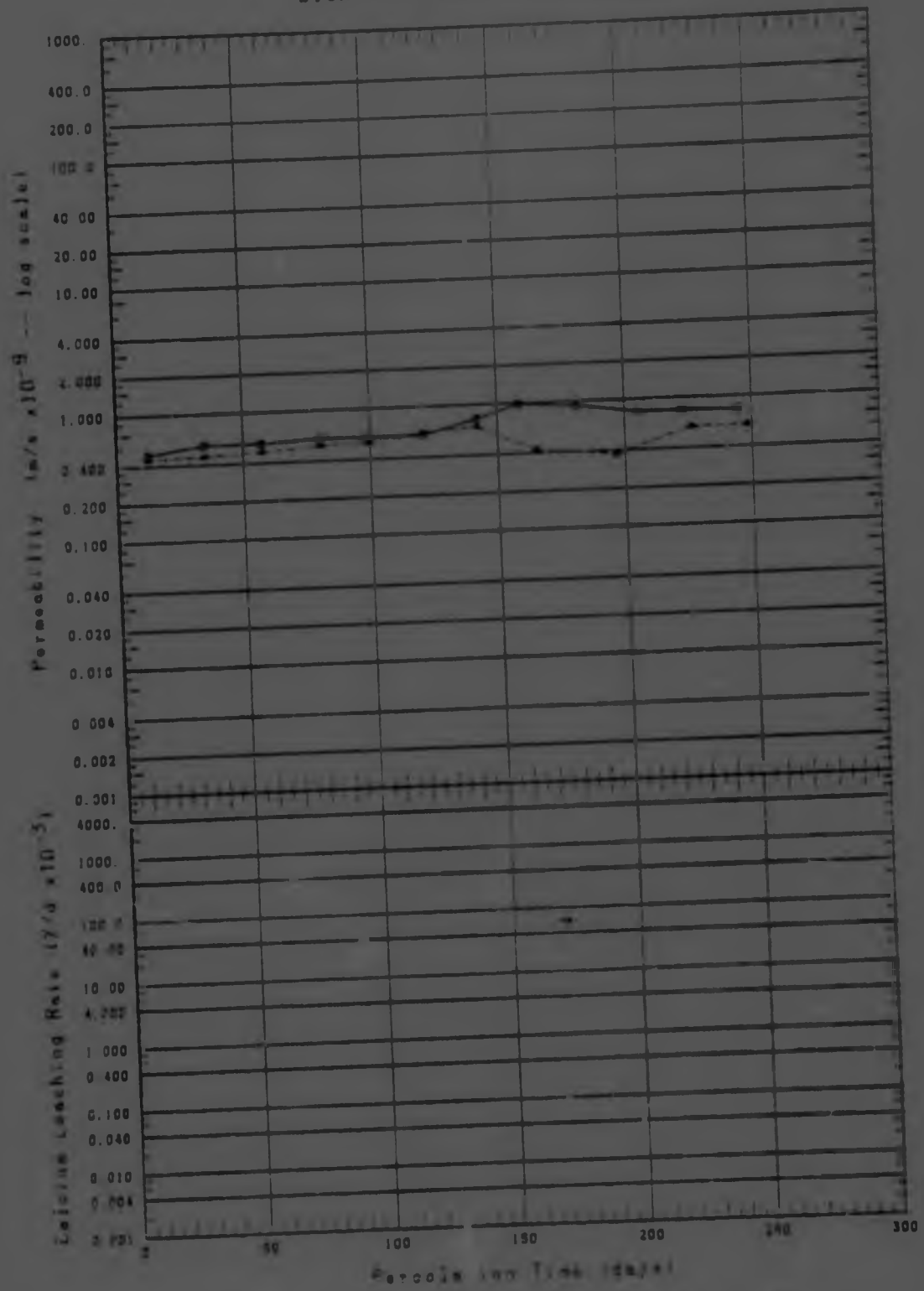
Specimen #	Inc %	Int P/a	Cil Z/a	Pen mm	Flow l
1=10m/91	13.207	.0565	-.09544	3.65	9.634
6=10m/91	14.013	.01324	-.03406	.65	1.964
15=10m/91	14.096	-.0018	.04726	3.65	3.902
22=10m/91	14.087	.01515	-.03237	2.15	2.105
5=10m/91	13.448	.01564	-.03194	2.20	2.076
12=10m/91	12.944	-.0188	.06229	3.70	5.590
Average	13.700	-.0081	-.05104	2.73	4.212

GRAPH D.34
SPECIMENS COMPACTED AT 2% ABOVE PROCTOR MAXIMUM DENSITY



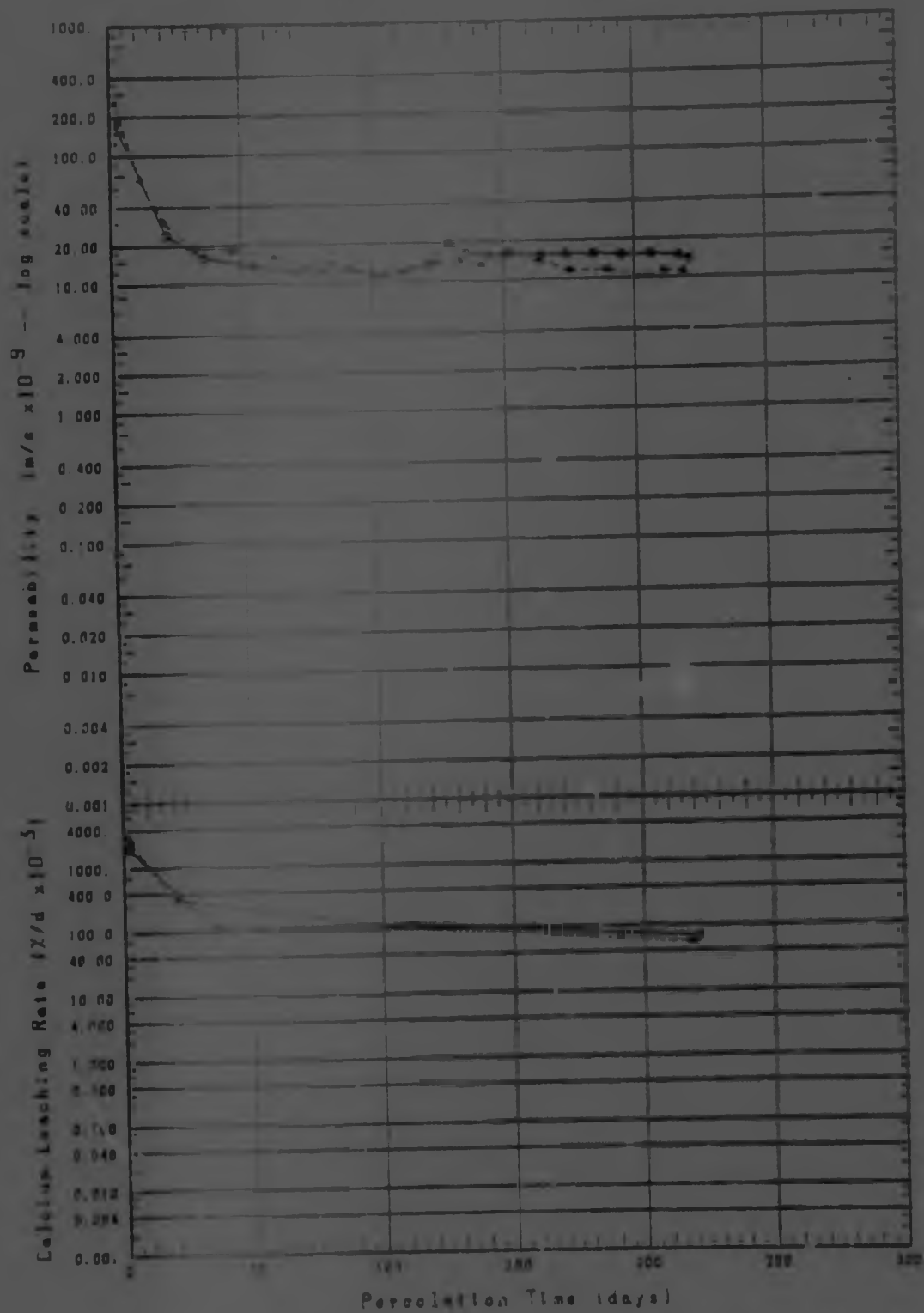
Specimen #	Inc %	Inc %/d	Ctl %/d	Pen mm	Flow l
19=10h/95	12.953	-.0410	-.08138	5.30	9.294
2=10h/95	12.438	-.0524	-.09140	4.90	9.361
9=10h/95	12.402	-.046	.08622	4.05	8.591
16=10h/95	12.647	.00803	-.03818	3.65	3.681
23=10h/95	12.681	-.0253	-.06755	2.35	6.319
6=10h/95	12.466	-.0881	-.12282	6.30	15.876
Average	12.594	-.0409	-.08125	4.43	8.854

GRAPH D, 11
DISK SPECIMENS, UNSTABILIZED



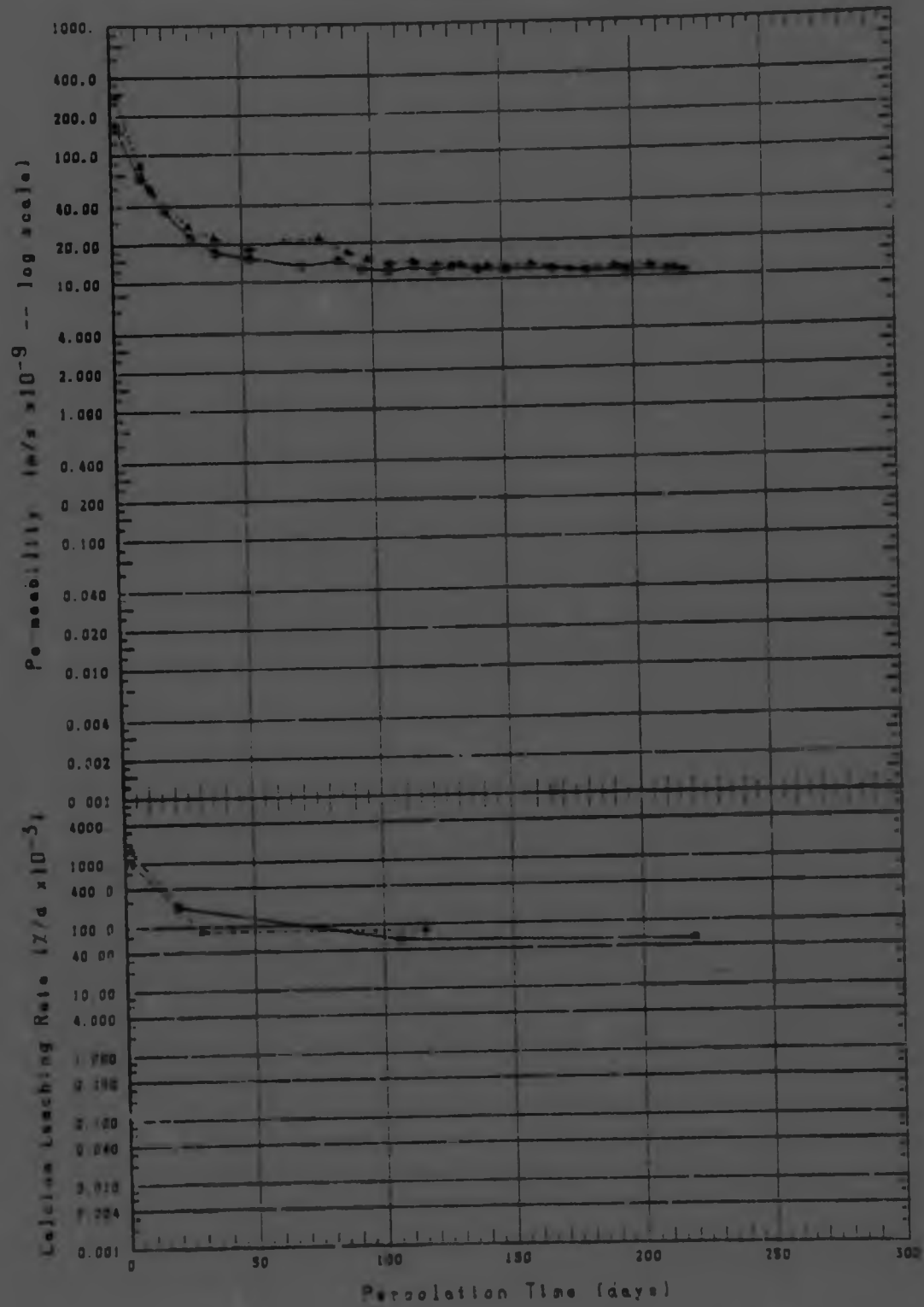
Specimen #	Permeation Time (days)	Permeability (m/s x 10 ⁻⁹)	Relative Leaching Rate (l/g x 10 ⁻³)	Pen. mm	Flow l
1-00/780	13.278	—	—	N/R	3.111
4-00/780	13.169	—	—	N/R	2.264
Average	14.223	—	—	—	2.688

GRAPH D.36
DISK SPECIMENS, 5% CEMENT



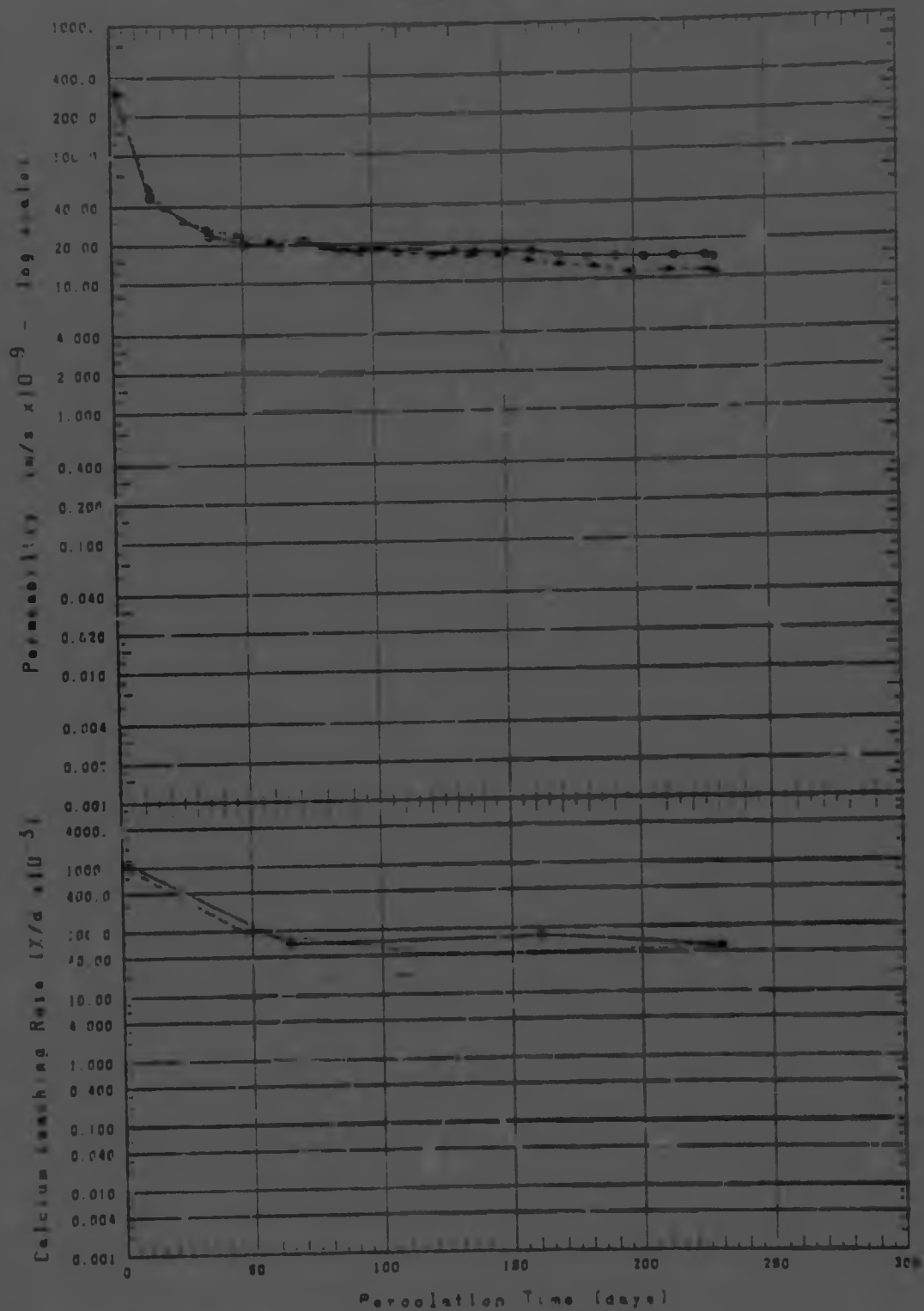
Specimen #	Inc Z	Int Z/d	Ctl Z/d	Pen mm	Flow l
3-05/780	13.548	-.5049	-.49868	N/A	N/A
4-05/780	12.980	-.4541	-.45339	N/A	N/A
Average	13.263	-.4779	-.47415		

GRAPH D.37
DISK SPECIMENS, 10% CEMENT



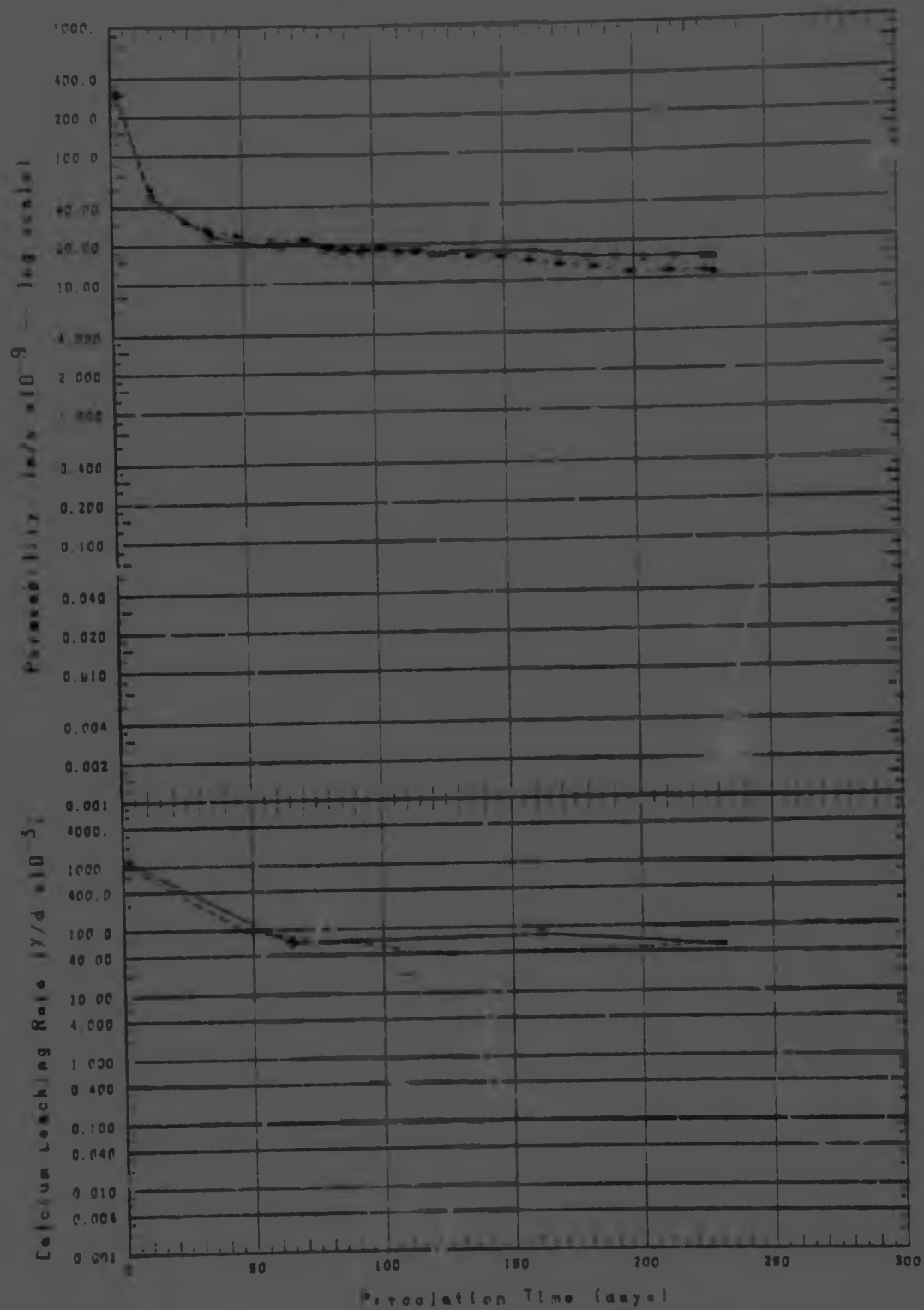
Specimen #	Le %	Int X/d	Cal X/d	Pen	Flow
1=10/280	13.077	-.3226	-.33728	N/A	N/A
5=10/280	13.128	N/A	N/A	N/A	N/A
Average	13.127	-.3226	-.33817		

GRAPH D. 58
DISK SPECIMENS 15" CEMENT



Specimen #	Imc %	Int $\frac{\text{X}}{\text{d}}$	Ctl $\frac{\text{X}}{\text{d}}$	Pen mm	Flow l
3-15/920	12.981	-.3284	-.34791	7.15	N/A
12-15/920	13.276	-.2585	-.26027	8.60	N/A
Average	13.129	-.2750	-.29455	7.96	

GRAPH D.58
DISK SPECIMENS 15% CEMENT



Specimen #	Imo %	Int %/d	Ctl %/d	Pen mm	Flow l
3-15/920	12.981	-.3284	-.34791	8.15	N/A
12-15/920	13.276	-.2585	-.28027	8.60	N/A
Average	13.129	-.2750	-.29455	8.38	



Author Robertson J A

Name of thesis The use of stabilized soil as a material in dam construction 1984

PUBLISHER:

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Author Robertson J A

Name of thesis The use of stabilized soil as a material in dam construction 1984

PUBLISHER:

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