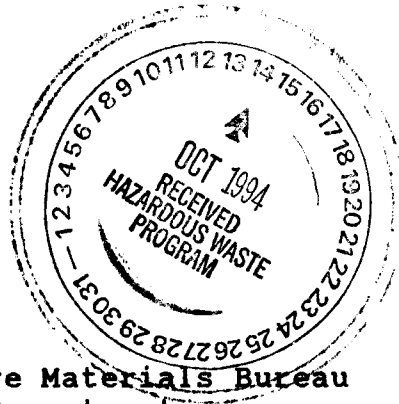




Route 3, Box 7
Gallup, New Mexico
87301

505
722-3833

October 7, 1994



Ron Kern
Technical Group
Hazardous and Radioactive Materials Bureau
New Mexico Environment Department
525 Camino De Los Marquez
Santa Fe, New Mexico 87502

Re: Random Number Sampling Locations
Giant Refining Company - Ciniza

Dear Mr. Kern:

Attached is the land treatment layout with grid system showing random sampling locations. Attached also are close-ups of Cells #1, #2, and #3, as well as the random numbers table.

The grid system was developed as outlined in Section 9.1.1.2 Fundamental Statistic Concepts, SW-846.

The random numbers tables were developed using Lotus 1-2-3.

In an effort to insure adequate coverage, yet still achieve randomness, three scenarios are included for your inspection.

As I said in our phone conversation on October 6, 1994, Giant would like to proceed with coring and sampling on or about October 24, 1994.

Obviously this is a unique request, but it is felt that this will be in everyone's best interest to complete the sampling and analysis in a timely manner.

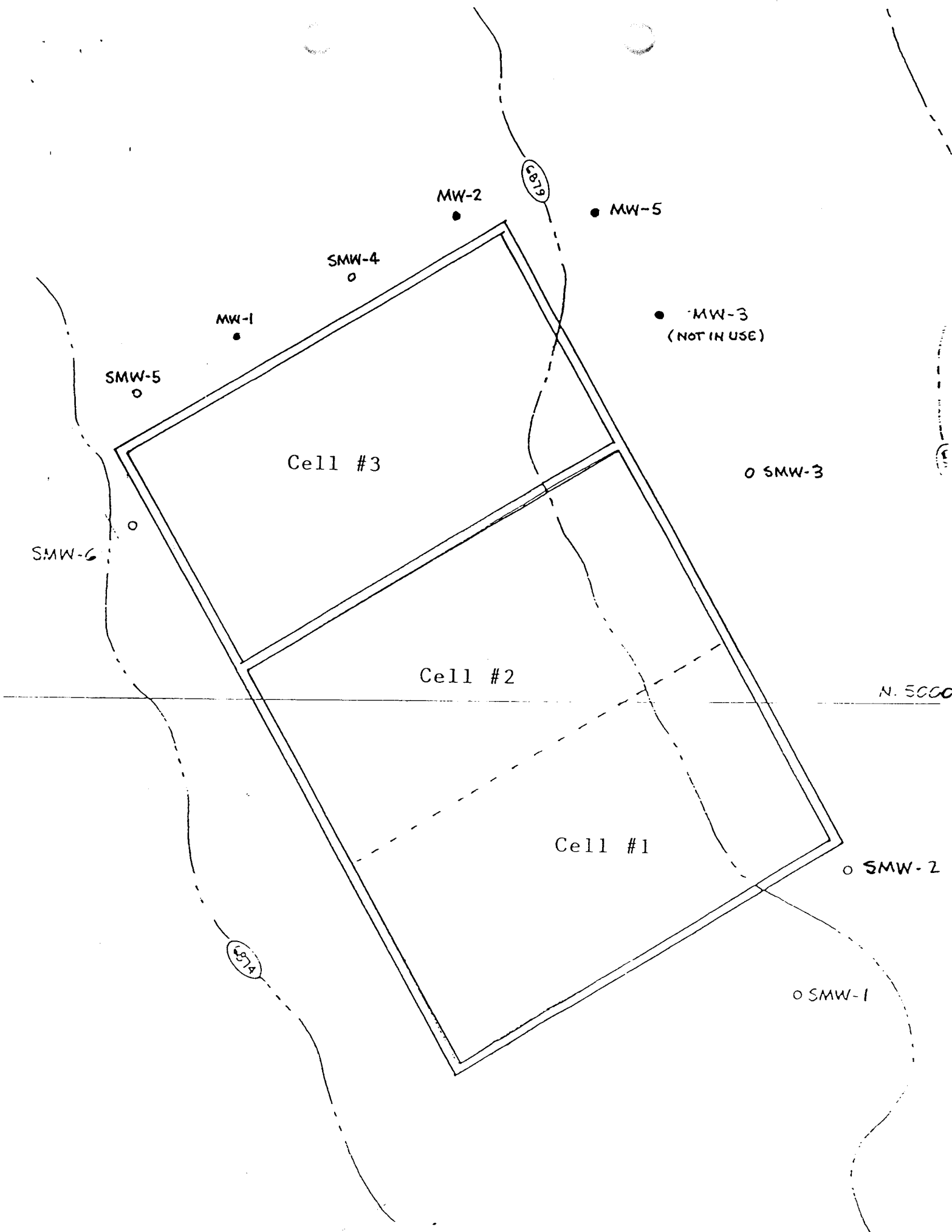
Thank you for your consideration in this matter.

Sincerely,

Lynn Shelton
Senior Environmental Coordinator
Giant Refining Company

TLS:sp

cc: David C. Pavlich, Giant
Kim Bullerdick, Giant



LTU PLOT

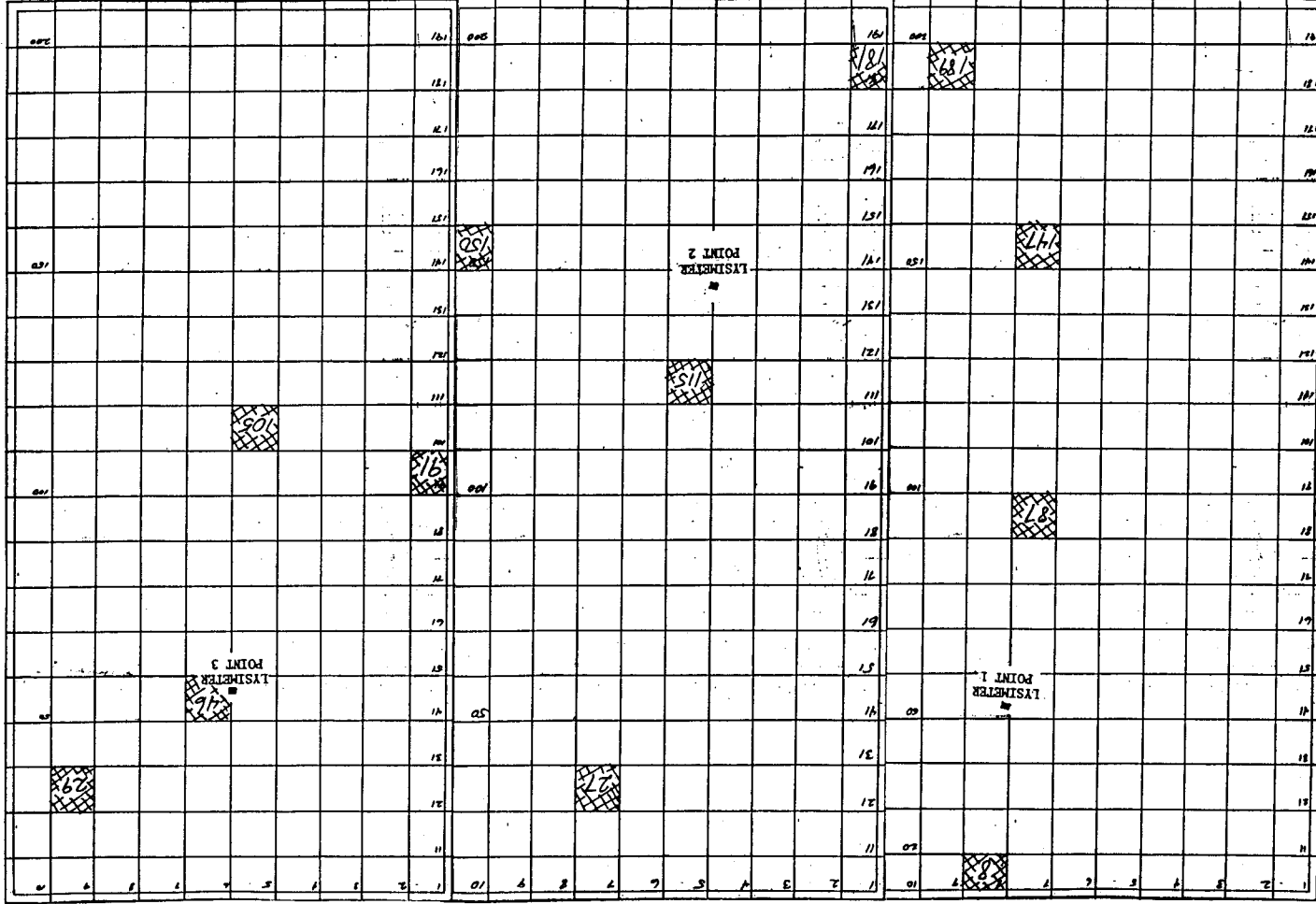


13-782 500 SHEETS, FILLER 6 SQUARE
 42-381 50 SHEETS EYE-EASE 5 SQUARE
 42-382 100 SHEETS EYE-EASE 5 SQUARE
 42-389 200 SHEETS EYE-EASE 5 SQUARE
 42-392 100 RECYCLED WHITE 5 SQUARE
 42-399 200 RECYCLED WHITE 5 SQUARE
 Made in U.S.A.

Cell #3

Cell #2

Cell #1

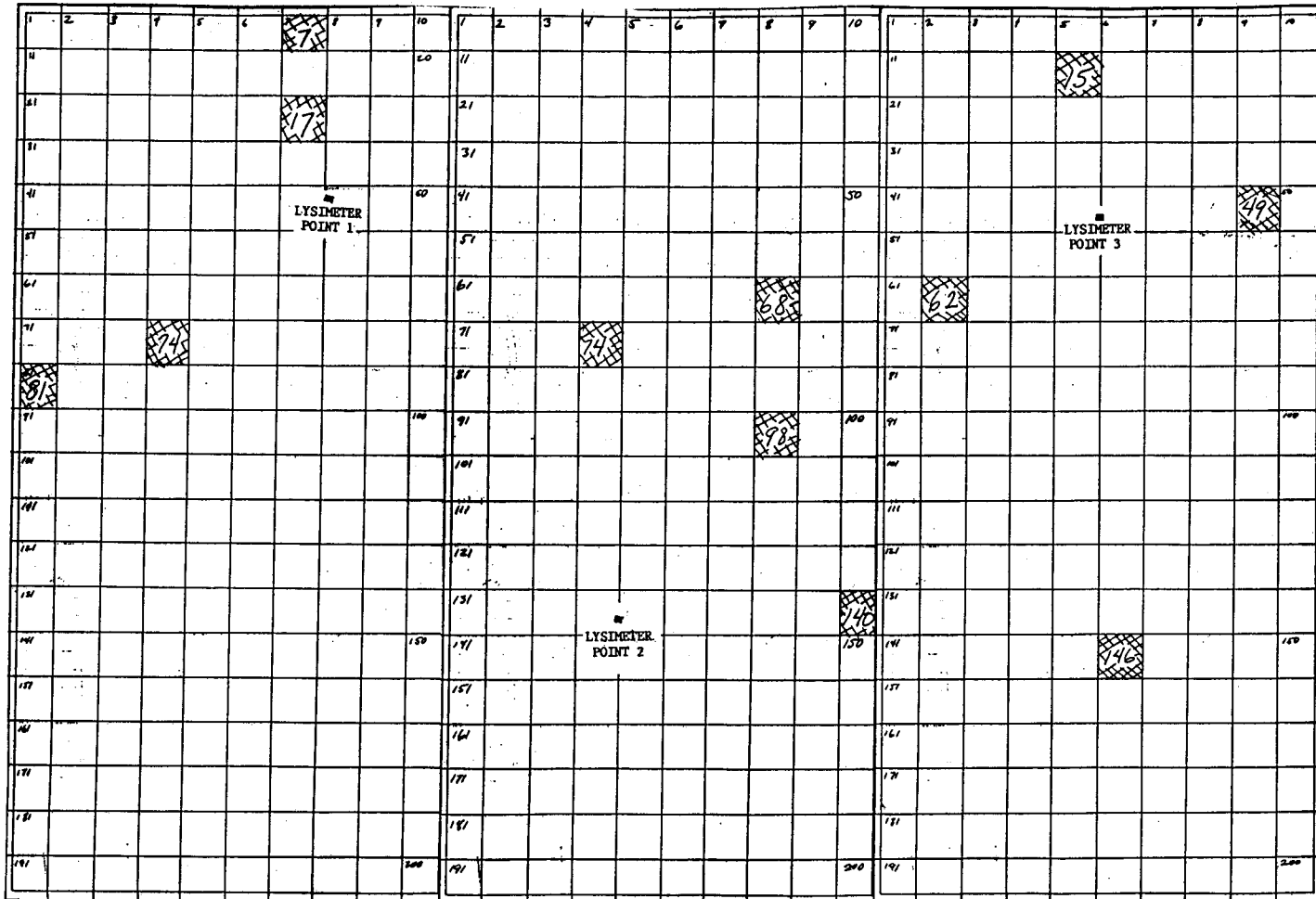


GIANT REFINING COMPANY-CINIZA
 LAND TREATMENT UNIT
 SAMPLING GRID
 RANDOM NUMBER SYSTEM
 SCENARIO 1

SCALE
 1 GRID = 24' x 24'

GIANT REFINING COMPANY-CINIZA
 LAND TREATMENT UNIT
 SAMPLING GRID
 RANDOM NUMBER SYSTEM
 SCENARIO 2

SCALE
 1 GRID = 24' x 24'



Cell #1

Cell #2

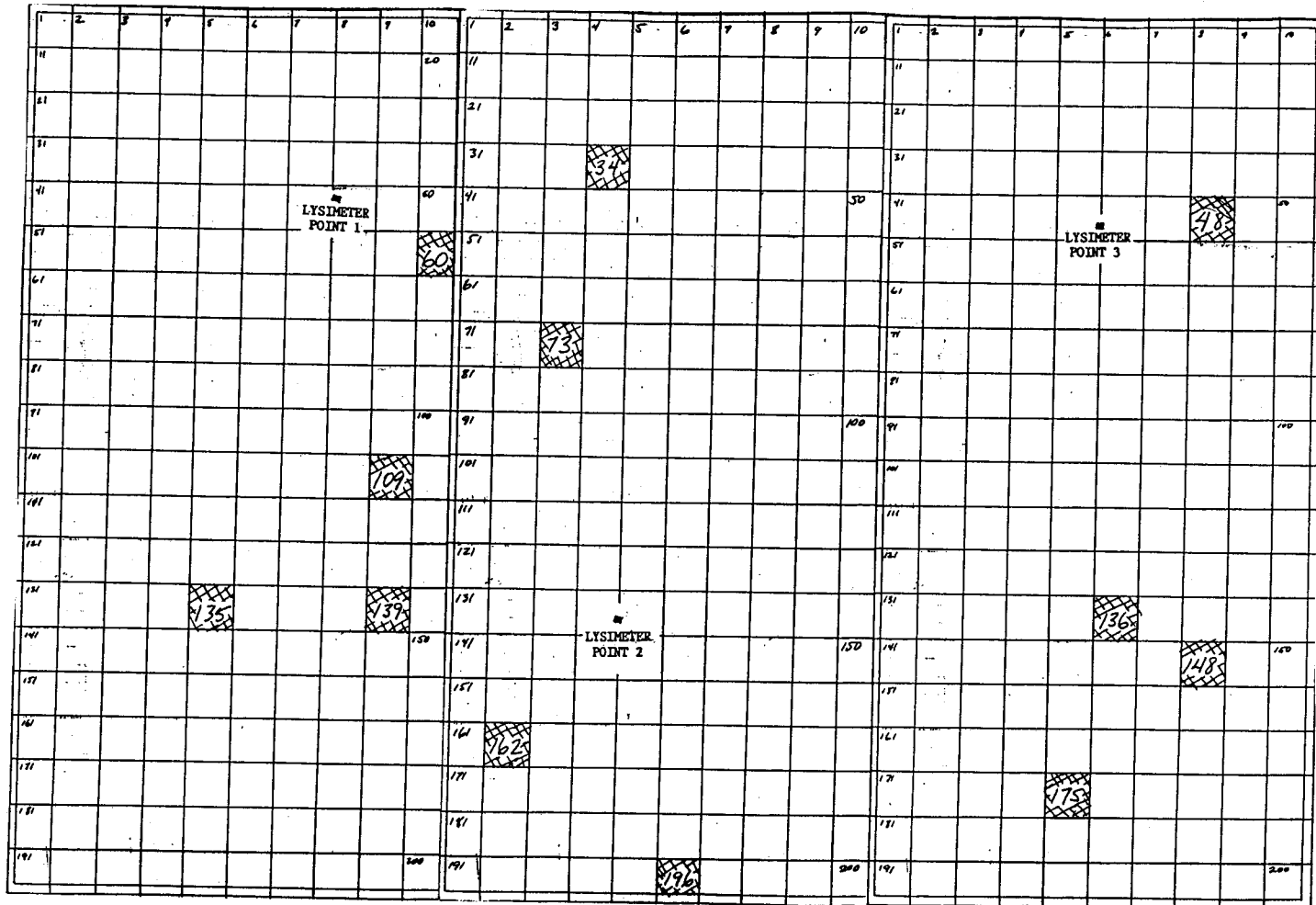
Cell #3

MADE IN U.S.A.
 13-782 500 SHEETS, FILLER 5 SQUARE
 42-981 50 SHEETS EYE-EASE 5 SQUARE
 42-982 100 SHEETS EYE-EASE 5 SQUARE
 42-989 200 SHEETS EYE-EASE 5 SQUARE
 42-982 100 SHEETS EYE-EASE 5 SQUARE
 42-989 200 SHEETS EYE-EASE 5 SQUARE
 42-982 100 RECYCLED WHITE 5 SQUARE
 42-989 200 RECYCLED WHITE 5 SQUARE



GIANT REFINING COMPANY-CINIZA
 LAND TREATMENT UNIT
 SAMPLING GRID
 RANDOM NUMBER SYSTEM
 SCENARIO 3

SCALE
 1 GRID = 24' x 24'



Cell #1

Cell #2

Cell #3

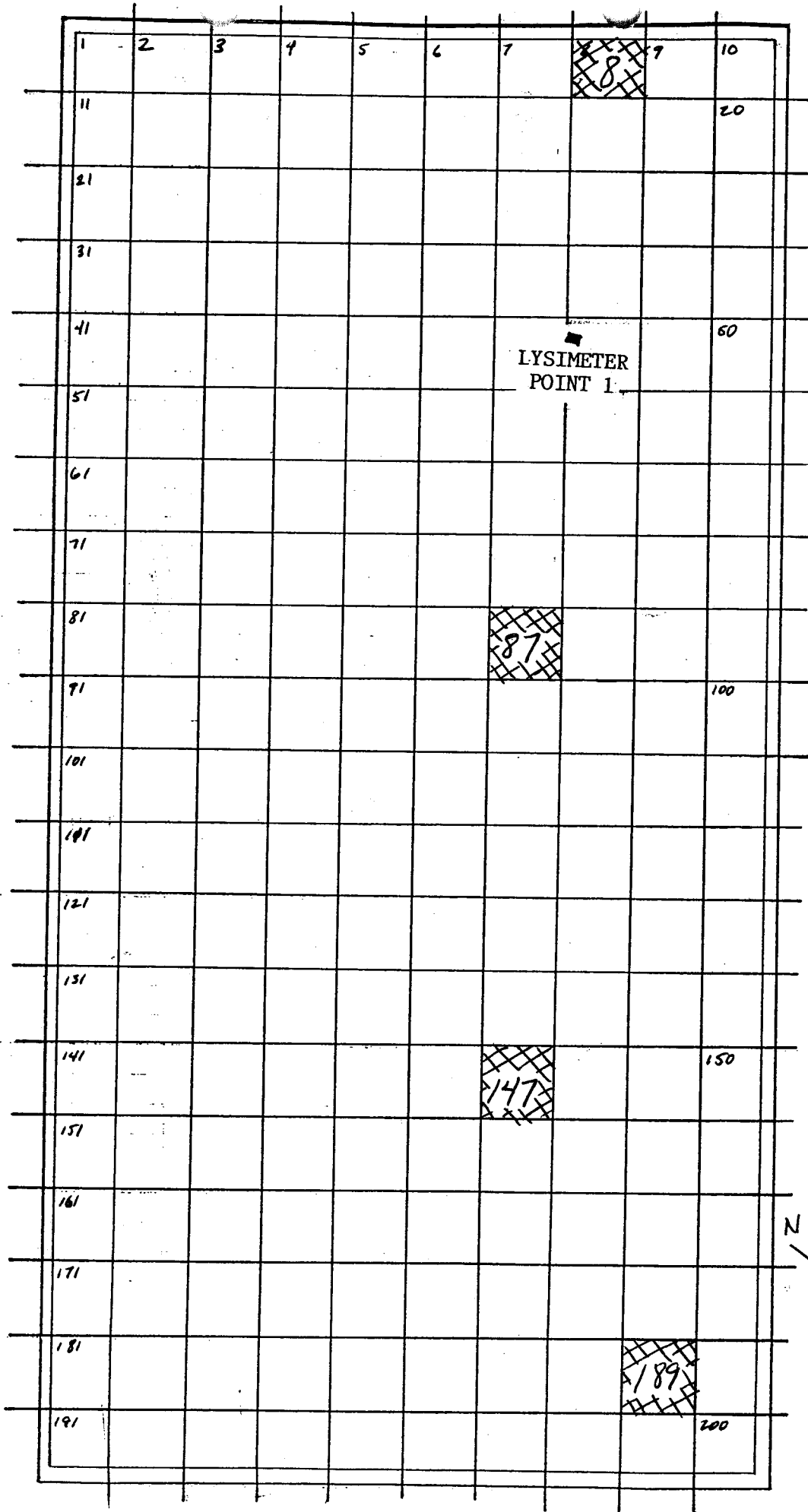
Made in U.S.A.
 13-782 500 SHEETS, FILLER 5 SQUARE
 42-381 50 SHEETS EYE-EASE 5 SQUARE
 42-382 100 SHEETS EYE-EASE 5 SQUARE
 42-389 200 SHEETS EYE-EASE 5 SQUARE
 42-392 100 RECYCLED WHITE 5 SQUARE
 42-399 200 RECYCLED WHITE 5 SQUARE



SCENARIO 1

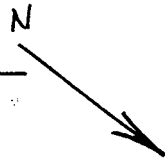
①

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS



LYSIMETER
POINT 1

Cell #1

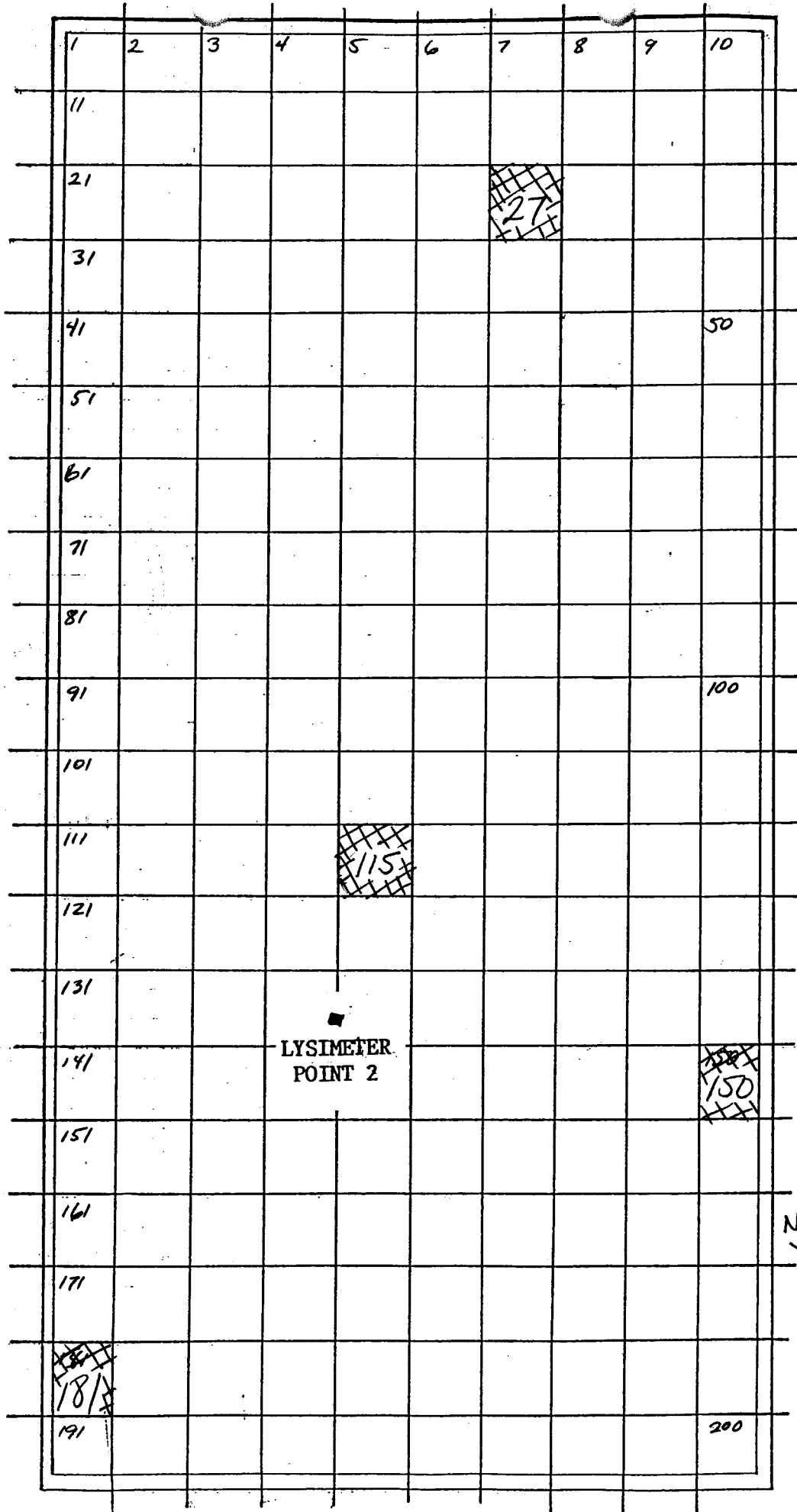


LTU PLOT

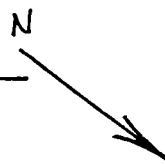
SCENARIO 1

①

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS



Cell #2

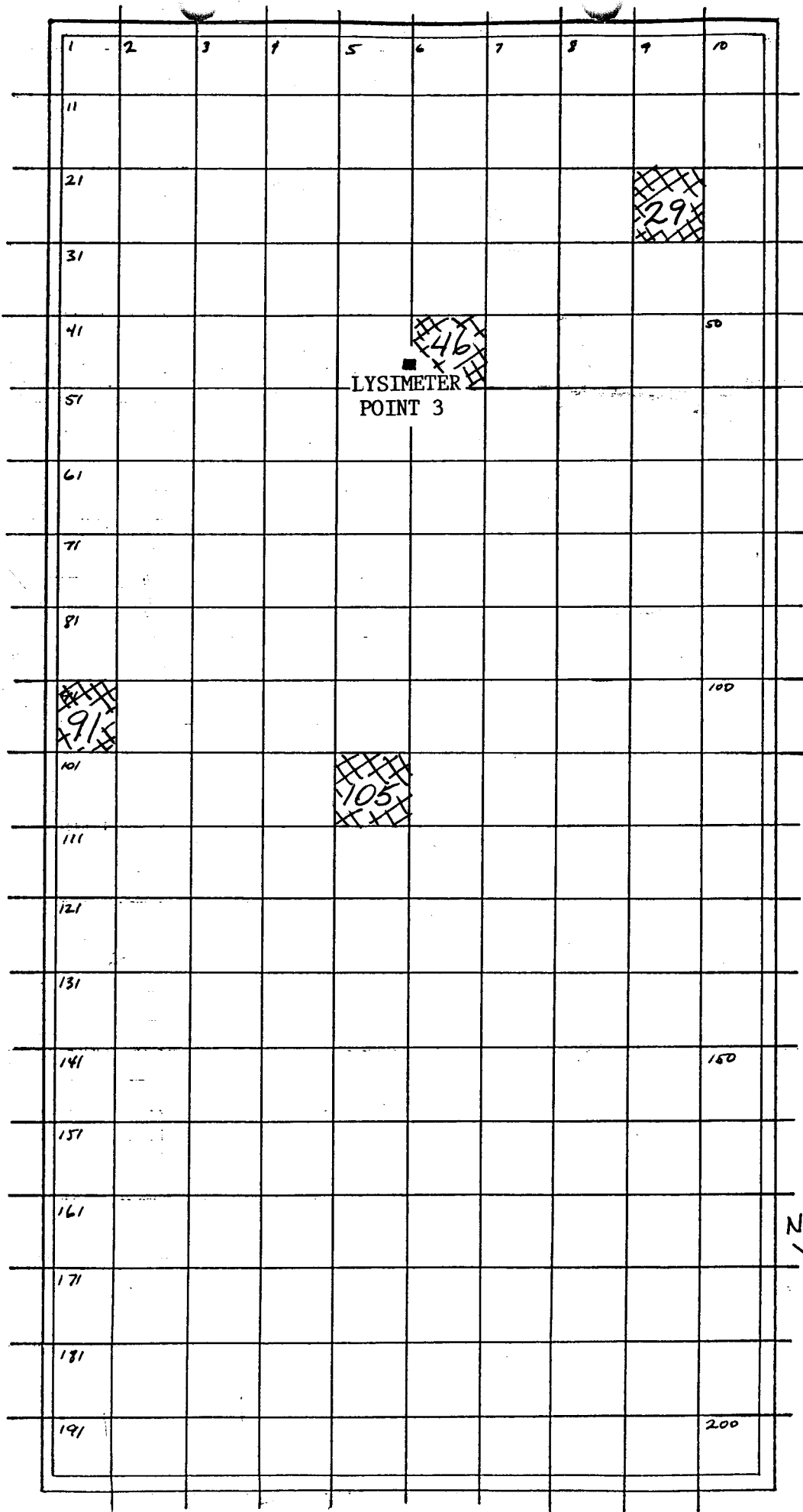


LTU PLOT

SCENARIO 1

①

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS



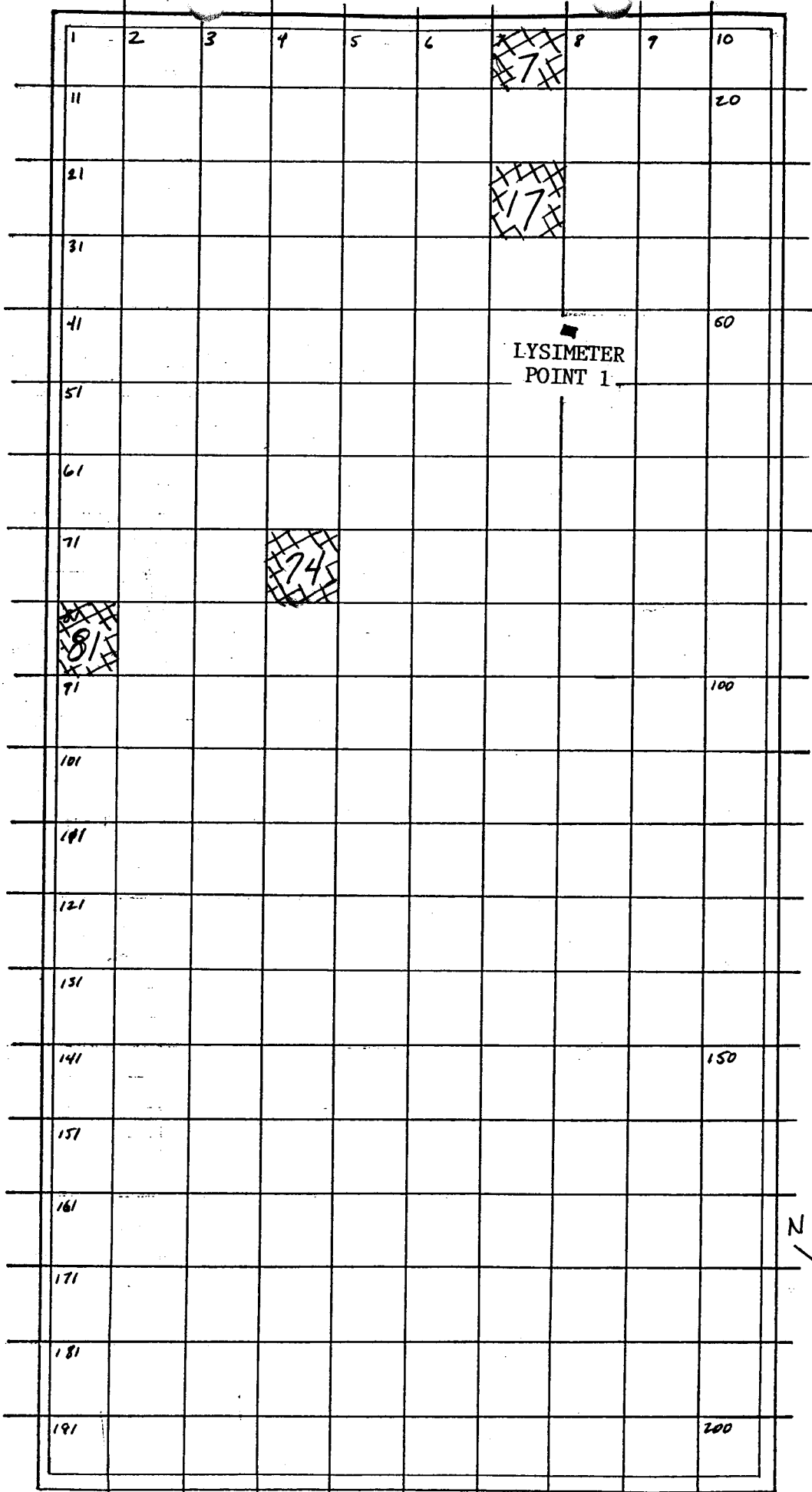
Cell #3

LTH PLOT

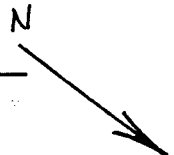
SCENARIO 2

2

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS



Cell #1

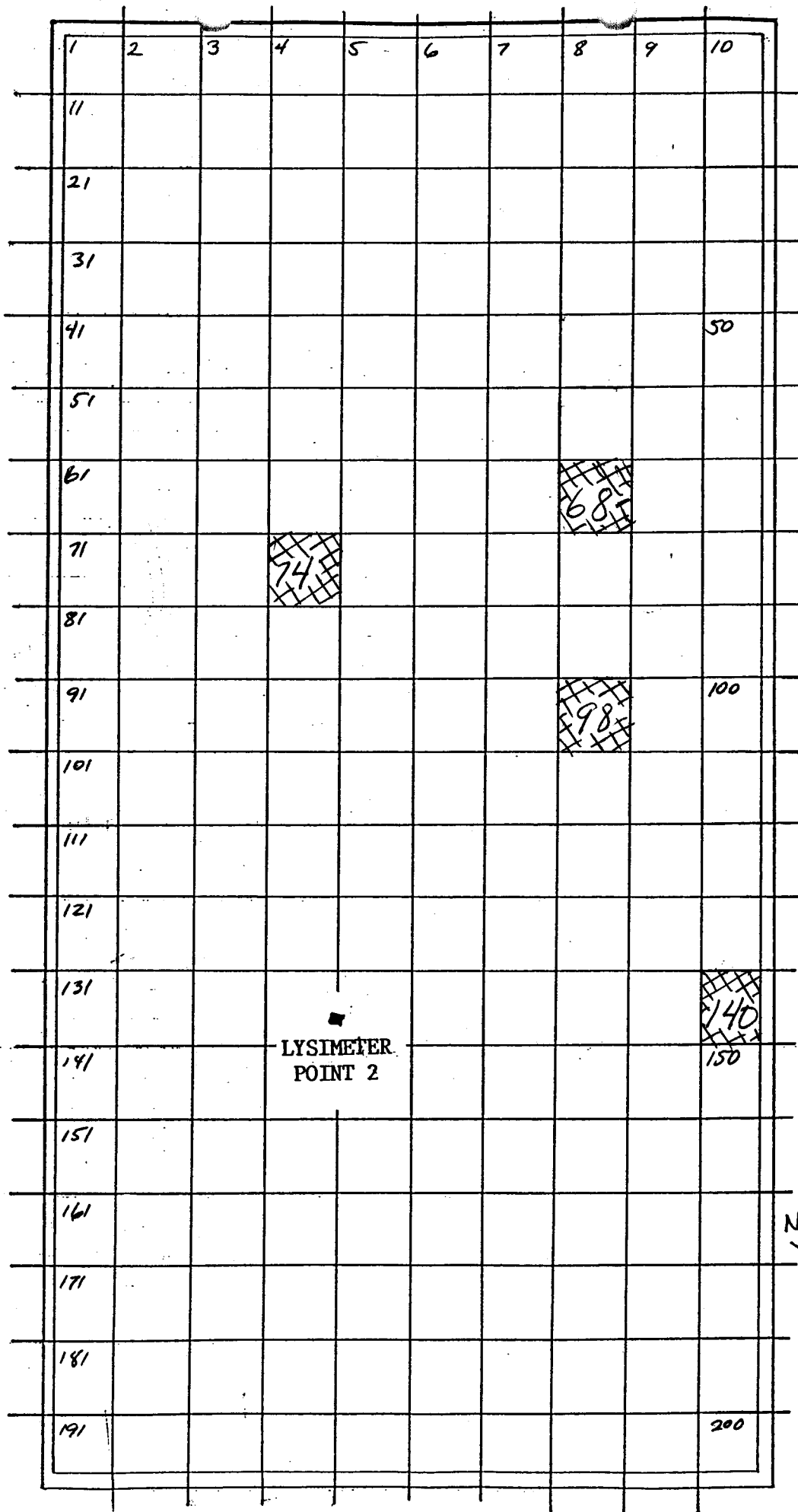


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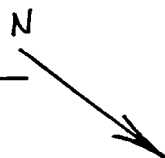
SCENARIO 2

2

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS



Cell #2

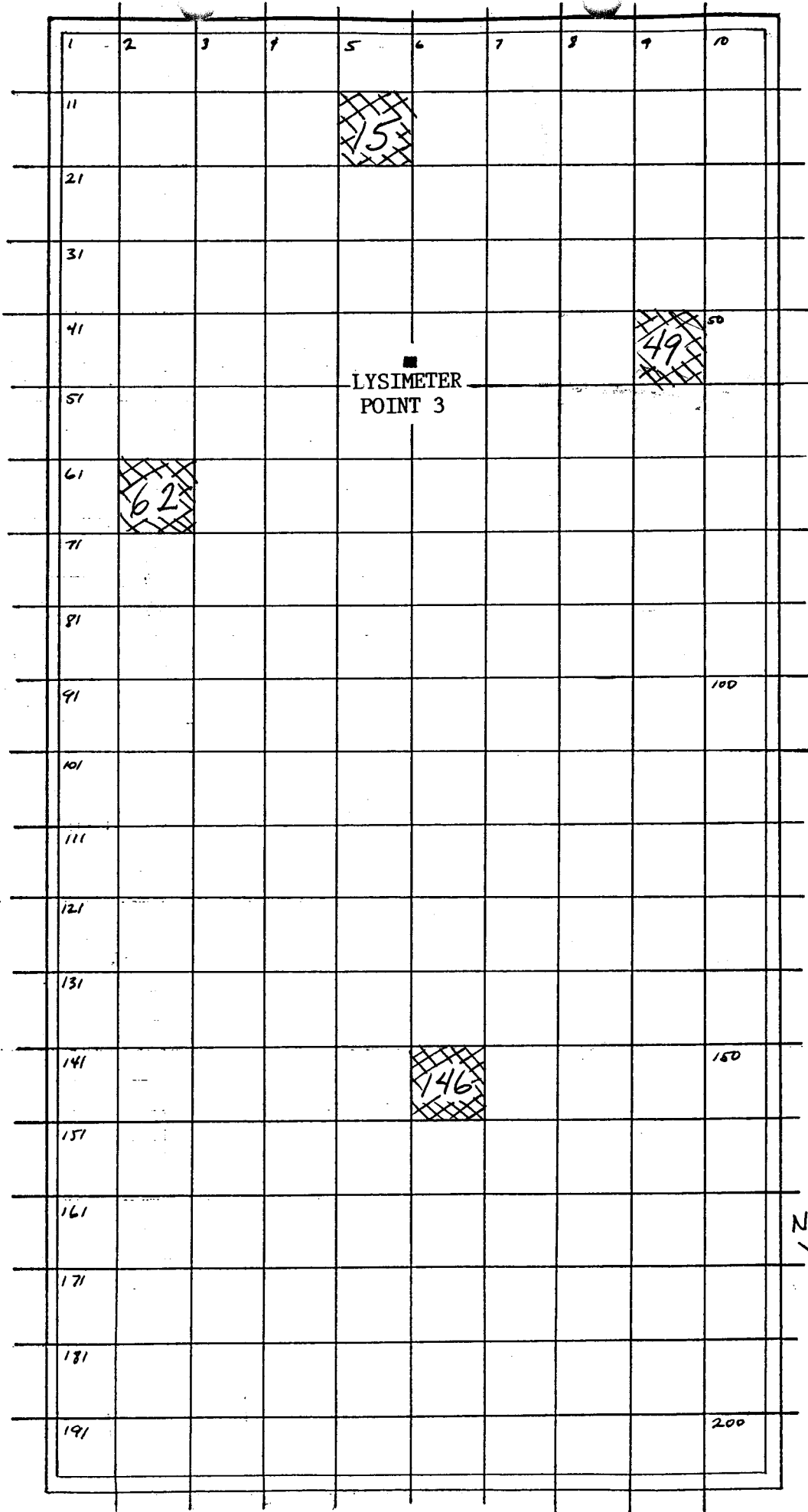


LTU PLOT

SCENARIO 2

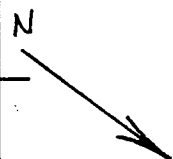
2

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS



LYSIMETER
POINT 3

Cell #3

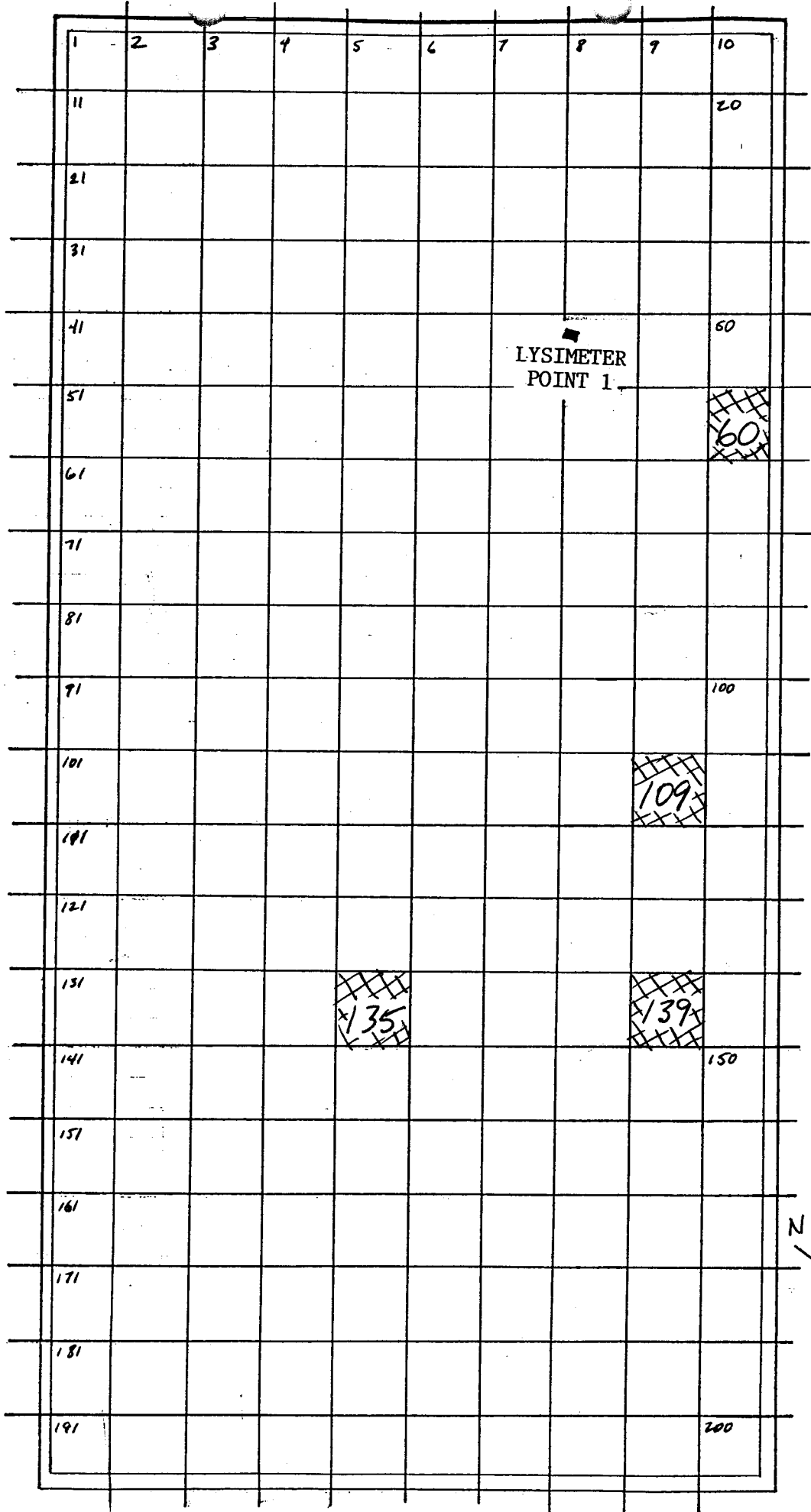


LTH PLOT

SCENARIO 3

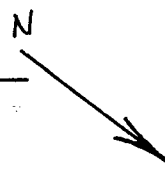
3

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS



Cell # 1

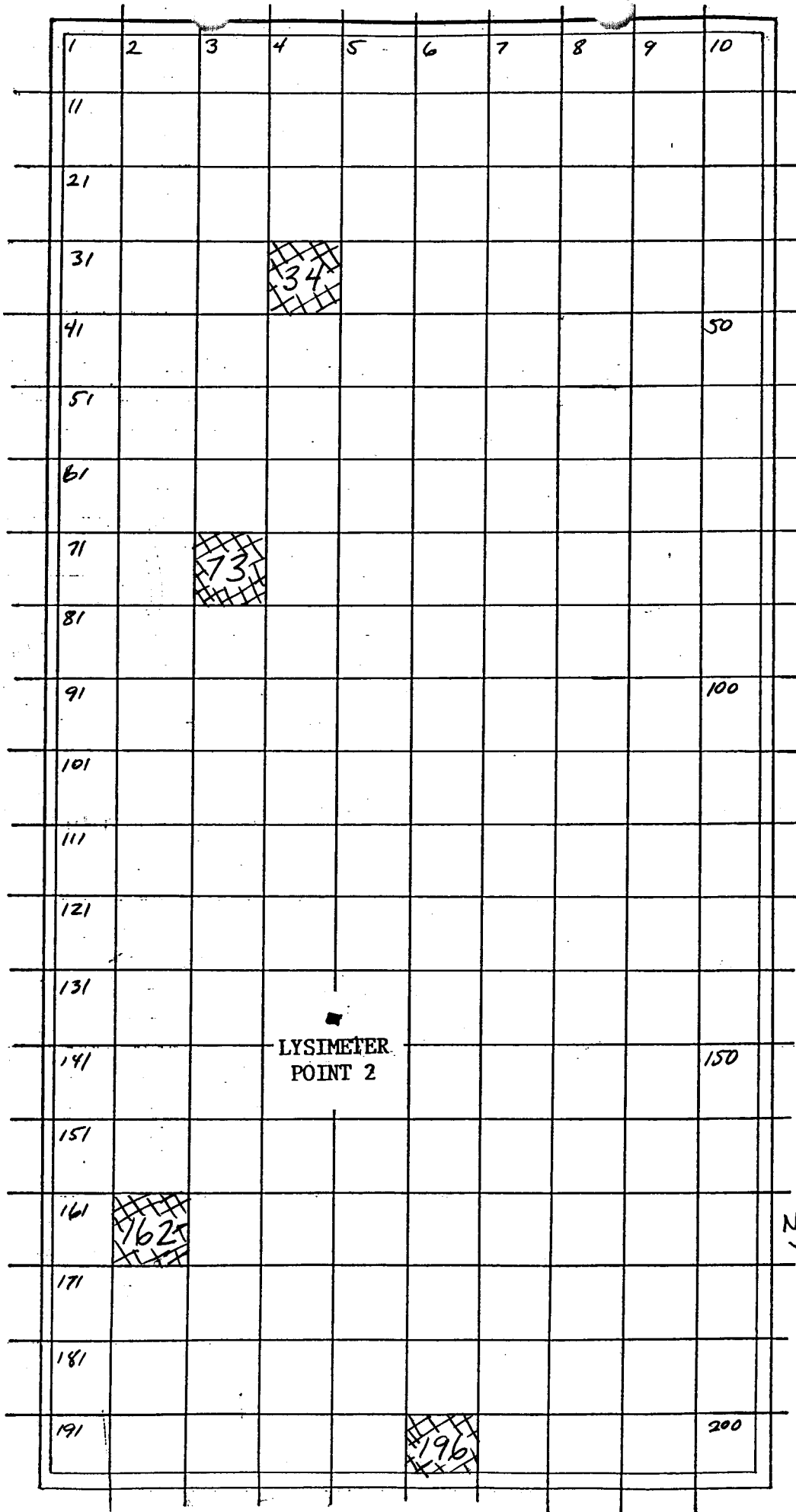
LTU PLOT



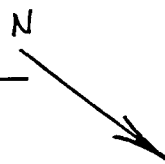
SCENARIO 3

3

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS



Cell #2

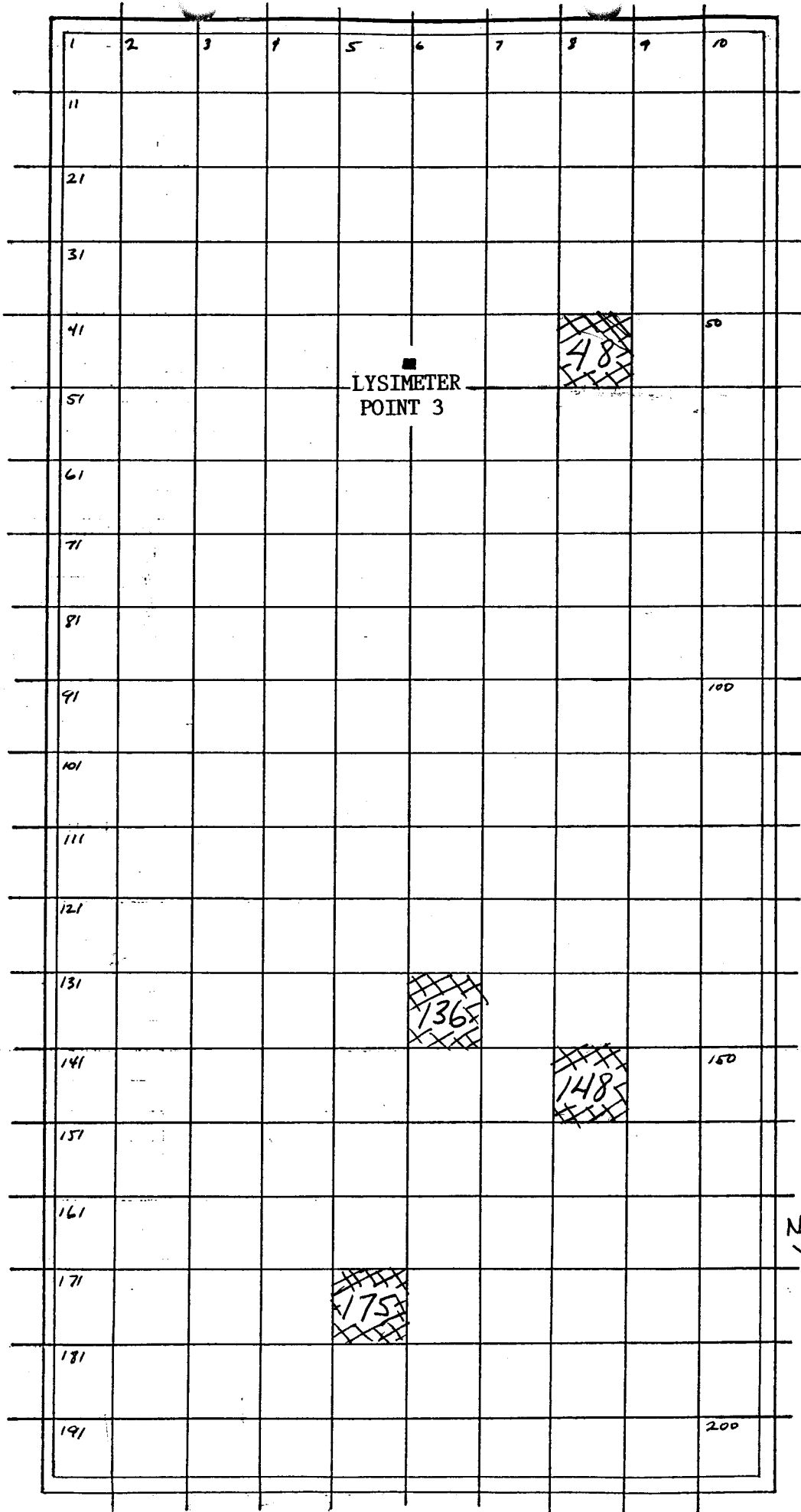


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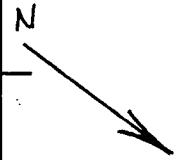
SCENARIO 3

3

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS



Cell #3



1.7M PLOT

RANDOM TABLE

1

29	150	87	2	19	69	108	114	143	130
91	27	8	61	11	130	153	8	155	135
46	115	147	166	35	126	74	73	10	121
105	181	189	129	17	172	81	0	134	194
139	18	3	186	70	108	191	38	191	17
41	49	115	57	68	21	58	46	132	144
133	156	171	102	45	16	129	81	35	51
164	176	196	128	68	196	108	184	82	74
8	193	151	151	155	69	92	75	99	153
5	56	2	172	134	132	47	29	186	96
160	10	11	10	187	66	164	82	60	56
148	130	174	104	157	97	39	67	12	139
101	155	30	71	101	11	193	177	187	188
67	62	25	20	151	71	28	140	188	45
55	142	22	29	3	124	43	20	132	119
89	55	49	61	161	32	104	168	112	73
198	118	165	102	90	177	127	165	73	162
49	65	13	113	100	119	147	26	111	132
88	49	48	91	170	184	164	157	76	191
21	182	154	44	190	16	105	129	148	124
118	48	72	100	45	95	144	77	199	190
180	124	52	32	79	144	130	142	24	43
73	82	13	197	69	196	167	84	110	80
86	9	0	15	199	87	51	65	81	109
95	196	181	164	62	196	41	140	35	55
140	66	142	95	150	136	96	9	36	64
38	185	82	109	196	184	188	140	123	54
6	148	109	29	163	99	44	24	54	30
34	144	126	179	120	137	58	147	132	116
54	190	110	151	141	142	25	181	11	152
144	146	177	57	56	78	91	52	16	150
108	197	113	136	14	114	33	170	129	107
11	159	192	178	39	40	134	52	44	132
57	193	186	79	18	24	93	132	44	27
85	162	55	50	103	60	49	180	101	7
120	18	111	179	139	17	28	67	196	13
52	68	128	113	113	43	121	169	117	185
17	105	50	2	14	26	71	48	94	66
132	115	155	13	148	22	98	179	173	200
131	27	90	123	46	138	180	81	41	136

RANDOM TABLE

2

49	98	81	97	48	197	153	26	132	75
146	74	74	126	56	160	138	17	33	130
62	140	7	145	164	96	71	10	118	139
15	68	17	88	44	107	176	139	158	39
188	200	139	85	196	55	118	114	183	110
164	4	140	100	176	129	30	24	19	171
94	191	70	53	128	134	38	89	162	174
112	48	81	102	191	128	122	55	175	45
76	147	145	109	40	47	132	30	35	149
190	191	52	32	171	45	124	163	31	81
103	28	157	99	27	148	36	153	55	75
70	193	179	108	152	75	151	134	99	57
167	40	77	157	42	190	196	199	91	107
106	3	185	180	99	68	83	9	24	83
194	122	16	129	196	175	75	9	154	65
166	49	53	169	187	133	106	45	187	197
52	101	60	52	85	60	11	57	146	56
118	22	124	51	188	150	174	136	121	97
23	98	88	74	160	110	42	163	78	32
156	53	174	82	9	101	170	56	30	198
155	166	100	53	23	174	127	82	98	178
11	2	20	46	86	27	197	140	181	65
178	39	75	106	162	190	182	103	98	103
160	50	89	117	166	34	60	55	142	79
94	95	184	65	98	72	47	32	113	40
158	40	22	5	85	24	64	171	124	90
18	94	71	1	166	193	127	3	194	111
106	22	29	83	191	108	101	96	123	40
98	94	142	65	14	124	93	2	67	171
96	170	169	74	97	67	48	178	11	177
173	11	57	123	112	138	104	28	164	186
130	30	182	88	119	93	147	43	169	165
98	139	75	130	82	38	39	90	34	160
62	150	138	79	199	118	90	64	104	1
112	168	154	10	37	113	89	59	8	61
152	166	26	30	154	35	176	138	162	143
66	132	137	94	20	92	104	76	52	65
94	81	62	19	141	17	173	161	69	74
173	132	43	185	61	200	139	30	164	78
199	126	125	188	111	158	140	79	105	189

RANDOM TABLE

3

148	34	139	129	59	184	104	168	10	38
48	73	60	109	125	117	74	158	70	165
175	162	109	84	6	170	20	23	153	132
136	196	135	56	103	24	34	88	110	172
54	157	91	46	186	90	112	172	180	138
160	128	88	110	22	158	77	167	193	32
90	165	197	172	142	103	144	129	129	64
23	118	51	100	60	191	7	166	117	67
174	24	177	96	33	153	198	67	142	76
64	47	28	16	22	65	189	36	41	104
91	45	173	147	44	118	53	23	130	44
123	89	195	27	11	19	152	150	152	16
114	46	189	27	117	69	128	176	36	120
93	88	157	118	156	30	114	161	183	40
153	88	80	53	126	164	65	124	79	115
60	39	146	133	138	105	102	164	197	134
186	21	111	97	57	122	32	166	188	87
179	114	65	113	104	101	187	54	61	118
137	13	168	200	34	93	98	194	117	192
77	96	80	11	24	27	8	50	130	181
29	53	186	97	45	187	75	105	141	118
34	184	140	165	185	188	11	187	72	186
86	98	182	147	102	162	76	51	121	49
41	129	43	121	164	21	62	32	40	63
91	181	136	184	194	41	86	123	154	177
79	149	123	82	91	101	173	152	27	19
196	16	24	93	75	57	88	92	78	23
12	104	81	73	34	59	94	69	113	151
179	132	150	131	135	194	150	98	159	60
150	62	124	5	3	185	13	129	151	97
42	187	167	82	95	25	112	27	126	26
173	48	43	20	137	157	19	138	69	9
63	169	38	186	86	20	167	143	184	108
158	1	98	7	50	181	58	70	67	184
68	45	37	16	143	114	103	30	60	72
124	31	32	166	195	76	155	19	172	135
154	68	134	146	176	15	169	113	35	47
114	106	186	9	144	86	118	191	130	133
138	7	157	89	150	140	45	97	93	115
139	155	134	187	117	53	0	200	199	117