21-Oct-94	08:55 AM	47.1	HIGH
22-Oct-94	09:55 AM	49.4	HIGH
22-Oct-94	05:15 PM	34.3	LOW
23-Oct-94	09:37 AM	53.1	HIGH
23-Oct-94	01:42 PM	36.6	LOW
24-Oct-94	06:58 AM	49.9	HIGH
24-Oct-94	05:26 PM	34.9	LOW
25-Oct-94	09:18 AM	49.8	HIGH
25-Oct-94	02:11 PM	35.1	LOW
26-Oct-94	09:26 AM	51.2	HIGH
26-Oct-94	03:36 PM	39.3	LOW
27-Oct-94	08:15 AM	53.8	HIGH
27-Oct-94	06:10 PM	42.5	LOW
28-Oct-94	06:13 AM	51.1	HIGH
28-Oct-94	03:33 PM	34.8	LOW
29-Oct-94	08:44 AM	48.5	HIGH
29-Oct-94	06:16 PM	26.0	LOW
30-Oct-94	09:10 AM	37.4	HIGH
30-Oct-94	03:10 PM	23.4	LOW
31-Oct-94	09:19 AM	44.1	HIGH
31-Oct-94	01:32 PM	33.0	LOW

Oct-94 SUMMARY

	HIGH	LOW
AVG.	46.3	32.6
MAX.	59.2	42.5
MIN.	29.4	20.6

01-Nov-94	03:38 AM	37.4	LOW
01-Nov-94	06:46 AM	51.6	HIGH
02-Nov-94	03:59 AM	34.1	HIGH
02-Nov-94	07:31 PM	20.7	LOW
03-Nov-94	05:33 AM	28.2	HIGH
03-Nov-94	04:34 PM	12.7	LOW
04-Nov-94	02:17 AM	12.7	LOW
04-Nov-94	08:18 AM	28.1	HIGH
05-Nov-94	01:12 AM	21.8	LOW
05-Nov-94	07:46 AM	35.5	HIGH
06-Nov-94	03:11 AM	24.4	LOW
06-Nov-94	08:29 AM	38.1	HIGH
07-Nov-94	01:36 AM	31.8	LOW
07-Nov-94	09:36 AM	43.6	HIGH
08-Nov-94	05:10 AM	32.5	HIGH
08-Nov-94	07:20 PM	21.9	LOW
09-Nov-94	01:17 AM	22.7	LOW
09-Nov-94	09:13 AM	38.1	HIGH
10-Nov-94	02:25 AM	27.7	LOW
10-Nov-94	06:42 AM	37.6	HIGH
11-Nov-94	03:20 AM	30.6	LOW
11-Nov-94	09:02 AM	46.0	HIGH
12-Nov-94	05:33 AM	36.4	HIGH
12-Nov-94	03:16 PM	19.1	LOW

13-Nov-94	12:34 AM	14.7	HIGH
13-Nov-94	02:08 PM	8.1	LOW
14-Nov-94	05:52 AM	23.7	HIGH
14-Nov-94	04:17 PM	8.3	LOW
15-Nov-94	04:51 AM	24.0	HIGH
15-Nov-94	11:13 AM	15.0	LOW
16-Nov-94	05:25 AM	26.7	HIGH
16-Nov-94	05:31 PM	7.1	LOW
17-Nov-94	04:18 AM	17.9	HIGH
17-Nov-94	02:55 PM	14.0	LOW
18-Nov-94	03:57 AM	23.6	HIGH
18-Nov-94	10:52 AM	14.4	LOW
19-Nov-94	12:39 AM	17.9	LOW
19-Nov-94	06:31 PM	25.9	HIGH
20-Nov-94	04:17 AM	34.4	HIGH
20-Nov-94	05:12 PM	14.7	LOW
21-Nov-94	05:35 AM	25.1	HIGH
21-Nov-94	06:11 PM	6.6	LOW
22-Nov-94	06:46 AM	28.2	HIGH
22-Nov-94	01:38 PM	12.6	LOW
23-Nov-94	07:58 AM	30.4	HIGH
23-Nov-94	10:42 AM	13.7	LOW
24-Nov-94	06:08 AM	28.5	HIGH
24-Nov-94	03:46 PM	14.5	LOW
25-Nov-94	06:04 AM	29.3	HIGH
25-Nov-94	05:56 PM	14.2	LOW
26-Nov-94	04:42 AM	18.6	HIGH
26-Nov-94	03:35 PM	3.5	LOW
27-Nov-94	06:29 AM	18.4	HIGH
27-Nov-94	04:46 PM	7.7	LOW
28-Nov-94	01:55 AM	9.0	HIGH
28-Nov-94	03:11 PM	2.0	LOW
29-Nov-94	09:53 AM	13.8	LOW
29-Nov-94	06:00 PM	28.5	HIGH
30-Nov-94	06:42 AM	37.8	HIGH
30-Nov-94	12:17 PM	27.2	LOW

Nov-94 SUMMARY

	HIGH	LOW
AVG.	29.8	16.6
MAX.	51.6	37.4
MIN.	9.0	2.0

01-Dec-94	06:00 AM	30.0	HIGH
01-Dec-94	11:19 AM	19.5	LOW
02-Dec-94	07:29 AM	33.5	HIGH
02-Dec-94	06:28 PM	17.5	LOW
03-Dec-94	06:25 AM	28.1	HIGH
03-Dec-94	01:09 PM	20.2	LOW
04-Dec-94	07:11 AM	32.6	HIGH
04-Dec-94	04:43 PM	22.1	LOW
05-Dec-94	07:16 AM	27.6	HIGH

05-Dec-94	08:40 PM	18.8	LOW
06-Dec-94	06:50 AM	32.3	HIGH
06-Dec-94	06:27 PM	17.0	LOW
07-Dec-94	05:36 AM	24.7	HIGH
07-Dec-94	08:21 PM	0.9	LOW
08-Dec-94	06:43 AM	11.0	HIGH
08-Dec-94	11:31 AM	2.3	LOW
09-Dec-94	06:43 AM	18.7	HIGH
09-Dec-94	05:38 PM	4.4	LOW
10-Dec-94	05:44 AM	17.6	HIGH
10-Dec-94	10:42 AM	7.8	LOW
11-Dec-94	06:29 AM	23.0	HIGH
11-Dec-94	12:15 PM	12.1	LOW
12-Dec-94	06:02 AM	23.2	HIGH
12-Dec-94	10:30 AM	10.6	LOW
13-Dec-94	04:53 AM	22.2	HIGH
13-Dec-94	05:17 PM	8.2	LOW
14-Dec-94	05:05 AM	23.5	HIGH
14-Dec-94	09:53 AM	10.4	LOW
15-Dec-94	05:06 AM	26.1	HIGH
15-Dec-94	04:01 PM	10.9	LOW
16-Dec-94	02:17 AM	21.6	LOW
16-Dec-94	06:18 AM	34.6	HIGH
17-Dec-94	05:46 AM	39.7	HIGH
17-Dec-94	08:37 PM	18.8	LOW
18-Dec-94	05:32 AM	32.1	HIGH
18-Dec-94	10:00 AM	18.2	LOW
19-Dec-94	01:52 AM	16.4	LOW
19-Dec-94	08:22 AM	34.0	HIGH
20-Dec-94	02:13 AM	22.6	LOW
20-Dec-94	08:04 AM	40.8	HIGH
21-Dec-94	03:58 AM	33.6	LOW
21-Dec-94	08:15 AM	47.8	HIGH
22-Dec-94	08:30 AM	40.8	HIGH
22-Dec-94	08:33 PM	27.7	LOW
23-Dec-94	03:59 AM	30.0	HIGH
23-Dec-94	12:32 PM	24.0	LOW
24-Dec-94	05:16 AM	30.2	HIGH
24-Dec-94	09:02 AM	25.2	LOW
25-Dec-94	04:16 AM	36.7	HIGH
25-Dec-94	11:23 AM	21.1	LOW
26-Dec-94	05:38 AM	37.4	HIGH
26-Dec-94	12:48 PM	20.8	LOW
27-Dec-94	07:44 AM	39.9	HIGH
27-Dec-94	07:41 PM	22.8	LOW
28-Dec-94	05:29 AM	33.8	HIGH

28-Dec-94	07:53 AM	20.5	LOW
29-Dec-94	04:45 AM	34.8	HIGH
29-Dec-94	07:46 PM	14.2	LOW
30-Dec-94	05:50 AM	31.6	HIGH
30-Dec-94	09:05 PM	8.4	LOW
31-Dec-94	05:27 AM	22.2	HIGH
31-Dec-94	12:47 PM	6.0	LOW

Dec-94 SUMMARY

	HIGH	LOW
AVG.	30.3	16.3
MAX.	47.8	33.6
MIN.	11.0	0.9

01-Jan-95	03:15 AM	7.7	LOW
01-Jan-95	09:55 AM	23.9	HIGH
02-Jan-95	04:06 AM	11.2	LOW
02-Jan-95	10:56 AM	26.7	HIGH
03-Jan-95	02:53 AM	13.1	LOW
03-Jan-95	06:43 AM	25.5	HIGH
04-Jan-95	03:14 AM	14.8	LOW
04-Jan-95	06:54 AM	22.5	HIGH
05-Jan-95	03:08 AM	18.0	LOW
05-Jan-95	07:52 AM	31.7	HIGH
06-Jan-95	07:36 AM	23.1	HIGH
06-Jan-95	03:32 PM	13.2	LOW
07-Jan-95	07:46 AM	25.5	HIGH
07-Jan-95	04:42 PM	17.0	LOW
08-Jan-95	01:55 AM	18.2	LOW
08-Jan-95	06:35 AM	28.5	HIGH
09-Jan-95	05:38 AM	35.3	HIGH
09-Jan-95	09:51 AM	25.0	LOW
10-Jan-95	03:59 AM	32.1	HIGH
10-Jan-95	05:21 PM	25.8	LOW
11-Jan-95	03:03 AM	27.8	HIGH
11-Jan-95	06:40 PM	18.4	LOW
12-Jan-95	01:23 AM	19.2	LOW
12-Jan-95	05:59 AM	32.6	HIGH
13-Jan-95	12:09 AM	22.3	LOW
13-Jan-95	04:58 AM	33.0	HIGH
14-Jan-95	02:58 AM	30.1	HIGH
14-Jan-95	02:17 PM	21.2	LOW
15-Jan-95	03:51 AM	30.0	HIGH
15-Jan-95	06:45 PM	15.3	LOW
16-Jan-95	04:11 AM	20.3	HIGH
16-Jan-95	03:55 PM	9.1	LOW
17-Jan-95	03:55 AM	19.1	HIGH
17-Jan-95	04:59 PM	8.7	LOW
18-Jan-95	04:26 AM	26.6	HIGH
18-Jan-95	06:03 PM	15.6	LOW
19-Jan-95	02:58 AM	32.9	HIGH
19-Jan-95	06:38 PM	15.0	LOW

20-Jan-95	03:42 AM	30.4	HIGH
20-Jan-95	03:00 PM	14.8	LOW
21-Jan-95	03:04 AM	29.7	HIGH
21-Jan-95	03:50 PM	14.7	LOW
22-Jan-95	04:35 AM	30.3	HIGH
22-Jan-95	02:06 PM	10.2	LOW
23-Jan-95	02:28 AM	22.5	HIGH
23-Jan-95	09:00 AM	13.9	LOW
24-Jan-95	02:41 AM	30.3	HIGH
24-Jan-95	11:32 AM	20.6	LOW
25-Jan-95	01:26 PM	23.6	LOW
25-Jan-95	09:28 PM	35.8	HIGH
26-Jan-95	03:20 AM	36.2	HIGH
26-Jan-95	07:24 PM	18.8	LOW
27-Jan-95	04:41 AM	25.7	HIGH
27-Jan-95	02:09 PM	12.6	LOW
28-Jan-95	04:55 AM	29.0	HIGH
28-Jan-95	10:03 AM	15.4	LOW
29-Jan-95	06:44 AM	30.2	HIGH
29-Jan-95	02:02 PM	14.8	LOW
30-Jan-95	05:26 AM	38.6	HIGH
30-Jan-95	04:42 PM	26.1	LOW
31-Jan-95	01:12 AM	26.6	LOW
31-Jan-95	05:49 AM	39.5	HIGH

Jan-95 SUMMARY

	HIGH	LOW
AVG.	29.2	16.8
MAX.	39.5	26.6
MIN.	19.1	7.7

01-Feb-95	04:19 AM	48.3	HIGH
01-Feb-95	11:56 AM	35.3	LOW
02-Feb-95	06:28 AM	40.8	HIGH
02-Feb-95	03:25 PM	29.6	LOW
03-Feb-95	12:50 PM	46.8	HIGH
03-Feb-95	08:33 PM	30.7	LOW
04-Feb-95	11:03 AM	47.8	HIGH
04-Feb-95	09:50 PM	29.6	LOW
05-Feb-95	03:56 AM	30.6	LOW
05-Feb-95	10:25 AM	49.6	HIGH
06-Feb-95	03:00 AM	30.7	LOW
06-Feb-95	10:25 AM	48.9	HIGH
07-Feb-95	09:47 AM	45.4	HIGH
07-Feb-95	03:23 PM	25.5	LOW
08-Feb-95	07:15 AM	34.0	HIGH
08-Feb-95	07:49 PM	17.3	LOW
09-Feb-95	02:25 AM	22.0	LOW
09-Feb-95	08:15 AM	38.2	HIGH
10-Feb-95	06:54 AM	37.6	HIGH
10-Feb-95	08:48 PM	19.8	LOW
11-Feb-95	03:05 AM	20.5	LOW

11-Feb-95	06:01 AM	25.5	HIGH
12-Feb-95	03:09 AM	20.8	LOW
12-Feb-95	08:28 AM	25.3	HIGH
13-Feb-95	02:12 AM	23.3	LOW
13-Feb-95	05:38 AM	31.7	HIGH
14-Feb-95	05:19 AM	31.8	HIGH
14-Feb-95	06:34 PM	4.0	LOW
15-Feb-95	02:30 AM	15.8	LOW
15-Feb-95	08:10 AM	29.5	HIGH
16-Feb-95	02:21 AM	18.2	LOW
16-Feb-95	08:55 AM	38.5	HIGH
17-Feb-95	02:40 AM	23.6	LOW
17-Feb-95	09:26 AM	40.2	HIGH
18-Feb-95	02:55 AM	30.7	LOW
18-Feb-95	08:53 AM	42.1	HIGH
19-Feb-95	03:52 AM	31.4	LOW
19-Feb-95	09:45 AM	49.4	HIGH
20-Feb-95	02:42 AM	35.4	LOW
20-Feb-95	08:04 AM	55.1	HIGH
21-Feb-95	01:23 AM	33.0	LOW
21-Feb-95	09:22 AM	51.5	HIGH
22-Feb-95	02:41 AM	36.5	LOW
22-Feb-95	10:25 AM	53.1	HIGH
23-Feb-95	02:36 AM	34.0	LOW
23-Feb-95	10:02 AM	53.4	HIGH
24-Feb-95	02:42 AM	32.5	LOW
24-Feb-95	10:09 AM	50.2	HIGH
25-Feb-95	08:49 AM	48.5	HIGH
25-Feb-95	05:57 PM	30.2	LOW
26-Feb-95	09:55 AM	46.9	HIGH
26-Feb-95	06:19 PM	30.8	LOW
27-Feb-95	07:47 AM	45.0	HIGH
27-Feb-95	05:07 PM	29.0	LOW
28-Feb-95	06:37 AM	41.8	HIGH
28-Feb-95	08:34 PM	23.9	LOW

Feb-95 SUMMARY

	HIGH	LOW
AVG.	42.8	26.6
MAX.	55.1	36.5
MIN.	25.3	4.0

01-Mar-95	06:59 AM	40.1	HIGH
01-Mar-95	01:17 PM	24.9	LOW
02-Mar-95	04:10 AM	39.6	HIGH
02-Mar-95	01:08 PM	24.3	LOW
03-Mar-95	04:44 AM	39.5	HIGH
03-Mar-95	06:04 PM	20.5	LOW
04-Mar-95	02:56 AM	22.4	LOW
04-Mar-95	12:03 PM	39.9	HIGH
05-Mar-95	09:02 AM	35.9	HIGH
05-Mar-95	06:04 PM	15.4	LOW

06-Mar-95	01:52 AM	8.9	LOW
06-Mar-95	11:19 AM	30.9	HIGH
07-Mar-95	03:05 AM	10.7	LOW
07-Mar-95	01:39 PM	38.6	HIGH
08-Mar-95	02:43 AM	17.8	LOW
08-Mar-95	12:09 PM	43.0	HIGH
09-Mar-95	03:59 AM	23.1	LOW
09-Mar-95	12:47 PM	48.9	HIGH
10-Mar-95	02:45 AM	30.8	LOW
10-Mar-95	11:43 AM	49.6	HIGH
11-Mar-95	05:09 AM	33.7	HIGH
11-Mar-95	09:36 PM	24.8	LOW
12-Mar-95	03:18 AM	24.1	LOW
12-Mar-95	08:59 AM	37.0	HIGH
13-Mar-95	03:05 AM	25.2	LOW
13-Mar-95	09:22 AM	47.4	HIGH
14-Mar-95	02:56 AM	29.9	LOW
14-Mar-95	07:54 AM	49.2	HIGH
15-Mar-95	09:52 AM	48.7	HIGH
15-Mar-95	05:05 PM	34.6	LOW
16-Mar-95	08:53 AM	52.7	HIGH
16-Mar-95	08:36 PM	30.2	LOW
17-Mar-95	08:03 AM	49.9	HIGH
17-Mar-95	05:27 PM	33.5	LOW
18-Mar-95	10:05 AM	51.2	HIGH
18-Mar-95	08:27 PM	30.1	LOW
19-Mar-95	10:43 AM	37.9	HIGH
19-Mar-95	06:27 PM	26.6	LOW
20-Mar-95	01:55 AM	32.5	LOW
20-Mar-95	07:26 AM	48.8	HIGH
21-Mar-95	05:26 AM	48.0	HIGH
21-Mar-95	08:45 PM	19.3	LOW
22-Mar-95	10:12 AM	43.6	HIGH
22-Mar-95	07:26 PM	24.9	LOW
23-Mar-95	09:09 AM	42.2	HIGH
23-Mar-95	07:31 PM	12.7	LOW
24-Mar-95	01:40 AM	14.9	LOW
24-Mar-95	06:51 AM	32.6	HIGH
25-Mar-95	08:48 AM	26.6	HIGH
25-Mar-95	06:38 PM	14.3	LOW
26-Mar-95	05:37 AM	36.6	HIGH
26-Mar-95	07:54 PM	13.0	LOW
27-Mar-95	07:54 AM	39.9	HIGH
27-Mar-95	07:48 PM	14.5	LOW
28-Mar-95	05:40 AM	33.7	HIGH
28-Mar-95	07:27 PM	14.6	LOW

29-Mar-95	07:41 AM	30.4	HIGH
29-Mar-95	07:02 PM	12.1	LOW
30-Mar-95	09:06 AM	40.4	HIGH
30-Mar-95	06:18 PM	19.4	LOW
31-Mar-95	09:20 AM	48.3	HIGH
31-Mar-95	08:32 PM	25.9	LOW

Mar-95 SUMMARY

	HIGH	LOW
AVG.	41.4	21.8
MAX.	52.7	34.6
MIN.	26.6	8.9

01-Apr-95	11:11 AM	50.3	HIGH
01-Apr-95	08:51 PM	29.3	LOW
02-Apr-95	09:37 AM	47.3	HIGH
02-Apr-95	06:32 PM	29.8	LOW
03-Apr-95	03:18 AM	33.0	LOW
03-Apr-95	12:39 PM	58.8	HIGH
04-Apr-95	03:43 AM	36.7	LOW
04-Apr-95	01:38 PM	63.7	HIGH
05-Apr-95	04:33 AM	41.7	LOW
05-Apr-95	11:18 AM	59.4	HIGH
06-Apr-95	03:50 AM	43.0	LOW
06-Apr-95	12:51 PM	64.6	HIGH
07-Apr-95	04:14 AM	41.6	LOW
07-Apr-95	12:33 PM	63.6	HIGH
08-Apr-95	08:09 AM	50.6	HIGH
08-Apr-95	07:07 PM	23.2	LOW
09-Apr-95	11:09 AM	31.1	HIGH
09-Apr-95	07:07 PM	21.2	LOW
10-Apr-95	02:42 AM	20.9	LOW
10-Apr-95	11:20 AM	36.0	HIGH
11-Apr-95	02:37 AM	23.8	LOW
11-Apr-95	10:39 AM	46.0	HIGH
12-Apr-95	02:31 AM	32.0	LOW
12-Apr-95	01:26 PM	58.9	HIGH
13-Apr-95	03:57 AM	39.1	LOW
13-Apr-95	02:03 PM	60.7	HIGH
14-Apr-95	10:44 AM	42.5	HIGH
14-Apr-95	07:29 PM	26.1	LOW
15-Apr-95	11:10 AM	38.5	HIGH
15-Apr-95	06:44 PM	22.0	LOW
16-Apr-95	12:30 AM	22.3	LOW
16-Apr-95	12:55 PM	45.1	HIGH
17-Apr-95	01:45 AM	27.5	LOW
17-Apr-95	10:49 AM	35.2	HIGH
18-Apr-95	01:09 AM	26.0	LOW
18-Apr-95	07:39 AM	41.7	HIGH
19-Apr-95	01:56 AM	28.7	LOW
19-Apr-95	07:21 AM	44.8	HIGH
20-Apr-95	07:34 AM	38.2	HIGH

20-Apr-95	04:04 PM	24.2	LOW
21-Apr-95	06:31 AM	39.7	HIGH
21-Apr-95	06:31 PM	27.2	LOW
22-Apr-95	07:15 AM	48.4	HIGH
22-Apr-95	06:50 PM	27.5	LOW
23-Apr-95	08:53 AM	41.5	HIGH
23-Apr-95	04:25 PM	29.0	LOW
24-Apr-95	11:20 AM	55.1	HIGH
24-Apr-95	05:25 PM	34.3	LOW
25-Apr-95	08:58 AM	54.2	HIGH
25-Apr-95	04:49 PM	28.1	LOW
26-Apr-95	12:00 AM	28.4	LOW
26-Apr-95	11:30 AM	54.9	HIGH
27-Apr-95	02:24 AM	36.5	LOW
27-Apr-95	10:17 AM	58.8	HIGH
28-Apr-95	07:24 AM	54.2	HIGH
28-Apr-95	05:54 PM	35.1	LOW
29-Apr-95	05:05 AM	50.0	HIGH
29-Apr-95	08:13 PM	37.0	LOW
30-Apr-95	10:43 AM	44.7	HIGH
30-Apr-95	05:03 PM	33.6	LOW

Apr-95 SUMMARY

	HIGH	LOW
AVG.	49.3	30.3
MAX.	64.6	43.0
MIN.	31.1	20.9

01-May-95	11:10 AM	58.1	HIGH
01-May-95	04:22 PM	37.5	LOW
02-May-95	08:58 AM	45.9	HIGH
02-May-95	05:08 PM	42.7	LOW
03-May-95	07:21 AM	50.8	HIGH
03-May-95	05:42 PM	34.9	LOW
04-May-95	12:57 AM	34.2	LOW
04-May-95	11:03 AM	58.6	HIGH
05-May-95	07:50 AM	50.5	HIGH
05-May-95	03:21 PM	30.5	LOW
06-May-95	08:56 AM	49.1	HIGH
06-May-95	04:31 PM	25.4	LOW
07-May-95	12:09 AM	24.6	LOW
07-May-95	08:53 AM	43.0	HIGH
08-May-95	12:57 AM	34.3	LOW
08-May-95	07:57 AM	46.6	HIGH
09-May-95	02:00 AM	36.5	LOW
09-May-95	10:32 AM	59.0	HIGH
10-May-95	04:57 AM	53.0	HIGH
10-May-95	01:17 PM	39.1	LOW
11-May-95	05:43 AM	49.6	HIGH
11-May-95	03:58 PM	34.1	LOW
12-May-95	02:21 AM	37.6	HIGH
12-May-95	05:01 PM	26.0	LOW

13-May-95	01:40 AM	31.3	LOW
13-May-95	07:10 AM	42.1	HIGH
14-May-95	02:07 AM	39.6	LOW
14-May-95	07:41 AM	55.5	HIGH
15-May-95	12:43 AM	44.6	LOW
15-May-95	08:24 AM	65.3	HIGH
16-May-95	08:48 AM	61.5	HIGH
16-May-95	03:52 PM	40.3	LOW
17-May-95	09:32 AM	51.8	HIGH
17-May-95	03:08 PM	41.8	LOW
18-May-95	09:37 AM	64.8	HIGH
18-May-95	02:51 PM	40.5	LOW
19-May-95	06:27 AM	64.5	HIGH
19-May-95	06:19 PM	45.2	LOW
20-May-95	09:29 AM	66.1	HIGH
20-May-95	02:18 PM	47.2	LOW
21-May-95	07:38 AM	69.1	HIGH
21-May-95	05:28 PM	50.3	LOW
22-May-95	07:19 AM	68.5	HIGH
22-May-95	04:51 PM	38.8	LOW
23-May-95	07:14 AM	54.3	HIGH
23-May-95	03:30 PM	37.0	LOW
24-May-95	06:13 AM	44.9	HIGH
24-May-95	01:55 PM	36.7	LOW
25-May-95	03:18 AM	42.1	HIGH
25-May-95	12:23 PM	36.1	LOW
26-May-95	04:07 AM	47.8	HIGH
26-May-95	05:19 PM	33.1	LOW
27-May-95	07:44 AM	51.2	HIGH
27-May-95	03:33 PM	34.5	LOW
28-May-95	06:02 AM	49.4	HIGH
28-May-95	01:34 PM	37.0	LOW
29-May-95	04:15 AM	50.2	HIGH
29-May-95	02:29 PM	39.9	LOW
30-May-95	08:12 AM	60.6	HIGH
30-May-95	04:54 PM	44.5	LOW
31-May-95	08:33 AM	67.9	HIGH
31-May-95	07:06 PM	47.8	LOW

May-95 SUMMARY

	HIGH	LOW
AVG.	54.2	37.6
MAX.	69.1	50.3
MIN.	37.6	24.6

01-Jun-95	08:36 AM	73.7	HIGH
01-Jun-95	05:55 PM	48.1	LOW
02-Jun-95	06:24 AM	60.2	HIGH
02-Jun-95	04:29 PM	43.9	LOW
03-Jun-95	05:46 AM	55.3	HIGH
03-Jun-95	03:33 PM	45.2	LOW
04-Jun-95	03:22 AM	47.1	HIGH

04-Jun-95	01:10 PM	56.6	HIGH
05-Jun-95	04:13 PM	71.3	HIGH
05-Jun-95	08:29 PM	34.5	LOW
06-Jun-95	04:31 AM	29.0	LOW
06-Jun-95	11:14 AM	52.0	HIGH
07-Jun-95	12:17 PM	55.4	HIGH
07-Jun-95	07:24 PM	32.5	LOW
08-Jun-95	11:48 AM	43.2	HIGH
08-Jun-95	04:58 PM	30.5	LOW
09-Jun-95	03:30 AM	33.0	LOW
09-Jun-95	01:24 PM	54.8	HIGH
10-Jun-95	03:47 AM	42.3	LOW
10-Jun-95	11:39 AM	63.7	HIGH
11-Jun-95	05:41 AM	49.7	LOW
11-Jun-95	01:37 PM	73.5	HIGH
12-Jun-95	04:34 AM	54.6	LOW
12-Jun-95	11:20 AM	80.9	HIGH
13-Jun-95	01:37 PM	83.2	HIGH
13-Jun-95	09:38 PM	57.9	LOW
14-Jun-95	11:14 AM	82.7	HIGH
14-Jun-95	09:33 PM	52.7	LOW
15-Jun-95	10:17 AM	72.5	HIGH
15-Jun-95	06:14 PM	52.4	LOW
16-Jun-95	08:53 AM	62.2	HIGH
16-Jun-95	03:15 PM	38.6	LOW
17-Jun-95	07:33 AM	54.7	HIGH
17-Jun-95	04:22 PM	35.3	LOW
18-Jun-95	05:29 AM	42.8	LOW
18-Jun-95	09:30 AM	60.4	HIGH
19-Jun-95	04:03 AM	49.7	LOW
19-Jun-95	02:09 PM	74.9	HIGH
20-Jun-95	04:49 AM	50.9	LOW
20-Jun-95	02:04 PM	76.0	HIGH
21-Jun-95	12:49 PM	69.3	HIGH
21-Jun-95	04:59 PM	43.9	LOW
22-Jun-95	02:36 AM	41.9	LOW
22-Jun-95	11:25 AM	67.9	HIGH
23-Jun-95	10:15 AM	70.0	HIGH
23-Jun-95	05:47 PM	48.0	LOW
24-Jun-95	11:21 AM	72.9	HIGH
24-Jun-95	06:15 PM	51.4	LOW
25-Jun-95	10:59 AM	75.6	HIGH
25-Jun-95	05:31 PM	55.1	LOW
26-Jun-95	10:25 AM	76.9	HIGH
26-Jun-95	05:29 PM	60.0	LOW
27-Jun-95	10:49 AM	75.1	HIGH

27-Jun-95	05:27 PM	56.5	LOW
28-Jun-95	08:09 AM	73.1	HIGH
28-Jun-95	04:40 PM	50.3	LOW
29-Jun-95	08:51 AM	67.8	HIGH
29-Jun-95	03:00 PM	49.4	LOW
30-Jun-95	06:53 AM	57.6	HIGH
30-Jun-95	09:34 AM	45.7	LOW

Jun-95 SUMMARY

	HIGH	LOW
AVG.	65.4	47.5
MAX.	83.2	60.0
MIN.	43.2	29.0

01-Jul-95	04:38 AM	49.9	LOW
01-Jul-95	10:43 AM	63.8	HIGH
02-Jul-95	12:26 PM	67.4	HIGH
02-Jul-95	07:30 PM	49.7	LOW
03-Jul-95	03:43 AM	44.9	LOW
03-Jul-95	08:25 AM	55.5	HIGH
04-Jul-95	01:29 AM	44.6	LOW
04-Jul-95	12:25 PM	61.3	HIGH
05-Jul-95	01:31 AM	48.2	LOW
05-Jul-95	02:25 PM	76.9	HIGH
06-Jul-95	03:15 AM	56.5	LOW
06-Jul-95	01:23 PM	81.9	HIGH
07-Jul-95	04:13 AM	62.0	LOW
07-Jul-95	02:25 PM	83.9	HIGH
08-Jul-95	03:58 AM	64.3	LOW
08-Jul-95	11:40 AM	86.9	HIGH
09-Jul-95	09:31 AM	80.9	HIGH
09-Jul-95	09:53 PM	60.5	LOW
10-Jul-95	02:06 AM	61.3	LOW
10-Jul-95	11:44 AM	81.8	HIGH
11-Jul-95	12:17 PM	82.0	HIGH
11-Jul-95	08:47 PM	58.4	LOW
12-Jul-95	08:35 AM	71.4	HIGH
12-Jul-95	07:54 PM	55.7	LOW
13-Jul-95	06:49 AM	65.7	HIGH
13-Jul-95	07:30 PM	48.5	LOW
14-Jul-95	09:47 AM	72.2	HIGH
14-Jul-95	06:07 PM	53.6	LOW
15-Jul-95	11:02 AM	77.3	HIGH
15-Jul-95	07:23 PM	58.0	LOW
16-Jul-95	08:42 AM	75.6	HIGH
16-Jul-95	07:49 PM	58.0	LOW
17-Jul-95	06:46 AM	76.5	HIGH
17-Jul-95	05:22 PM	51.9	LOW
18-Jul-95	07:56 AM	73.5	HIGH
18-Jul-95	06:53 PM	52.9	LOW
19-Jul-95	07:45 AM	71.7	HIGH
19-Jul-95	05:06 PM	53.6	LOW

20-Jul-95	09:59 AM	75.4	HIGH
20-Jul-95	04:43 PM	56.3	LOW
21-Jul-95	10:49 AM	78.0	HIGH
21-Jul-95	06:00 PM	55.7	LOW
22-Jul-95	10:21 AM	77.4	HIGH
22-Jul-95	07:16 PM	56.0	LOW
23-Jul-95	09:15 AM	73.5	HIGH
23-Jul-95	05:40 PM	55.1	LOW
24-Jul-95	02:38 AM	60.2	LOW
24-Jul-95	10:39 AM	82.2	HIGH
25-Jul-95	02:28 AM	65.8	LOW
25-Jul-95	11:44 AM	86.7	HIGH
26-Jul-95	11:23 AM	84.8	HIGH
26-Jul-95	09:15 PM	68.6	LOW
27-Jul-95	11:00 AM	87.5	HIGH
27-Jul-95	07:15 PM	67.7	LOW
28-Jul-95	09:32 AM	91.0	HIGH
28-Jul-95	05:14 PM	69.9	LOW
29-Jul-95	08:33 AM	88.5	HIGH
29-Jul-95	07:45 PM	66.7	LOW
30-Jul-95	07:39 AM	82.5	HIGH
30-Jul-95	05:56 PM	61.4	LOW
31-Jul-95	03:29 AM	62.3	LOW
31-Jul-95	10:21 AM	81.3	HIGH

Jul-95 SUMMARY

	HIGH	LOW
AVG.	77.3	57.4
MAX.	91.0	69.9
MIN.	55.5	44.6

01-Aug-95	02:21 AM	60.1	LOW
01-Aug-95	01:03 PM	81.9	HIGH
02-Aug-95	07:47 AM	81.2	HIGH
02-Aug-95	06:08 PM	62.7	LOW
03-Aug-95	10:11 AM	80.5	HIGH
03-Aug-95	07:01 PM	56.3	LOW
04-Aug-95	11:06 AM	81.9	HIGH
04-Aug-95	05:36 PM	59.8	LOW
05-Aug-95	05:28 AM	60.1	LOW
05-Aug-95	12:44 PM	86.3	HIGH
06-Aug-95	02:50 AM	65.7	LOW
06-Aug-95	10:48 AM	89.6	HIGH
07-Aug-95	10:35 AM	85.1	HIGH
07-Aug-95	08:25 PM	65.6	LOW
08-Aug-95	09:43 AM	79.7	HIGH
08-Aug-95	07:38 PM	58.6	LOW
09-Aug-95	08:41 AM	81.0	HIGH
09-Aug-95	04:13 PM	63.1	LOW
10-Aug-95	06:25 AM	77.1	HIGH
10-Aug-95	04:10 PM	57.5	LOW
11-Aug-95	07:44 AM	70.4	HIGH

11-Aug-95	12:04 PM	58.3	LOW
12-Aug-95	09:06 AM	73.0	HIGH
12-Aug-95	10:07 AM	56.4	LOW
13-Aug-95	09:09 AM	74.6	HIGH
13-Aug-95	06:42 PM	56.5	LOW
14-Aug-95	10:18 AM	75.3	HIGH
14-Aug-95	02:48 PM	58.3	LOW
15-Aug-95	10:43 AM	81.7	HIGH
15-Aug-95	07:38 PM	62.3	LOW
16-Aug-95	09:00 AM	77.9	HIGH
16-Aug-95	07:14 PM	53.9	LOW
17-Aug-95	09:21 AM	77.1	HIGH
17-Aug-95	09:45 PM	57.7	LOW
18-Aug-95	10:36 AM	75.5	HIGH
18-Aug-95	02:43 PM	56.6	LOW
19-Aug-95	10:43 AM	82.0	HIGH
19-Aug-95	03:57 PM	54.8	LOW
20-Aug-95	08:57 AM	61.8	HIGH
20-Aug-95	02:47 PM	54.8	LOW
21-Aug-95	06:40 AM	69.7	HIGH
21-Aug-95	04:10 PM	53.4	LOW
22-Aug-95	06:52 AM	74.1	HIGH
22-Aug-95	05:20 PM	55.8	LOW
23-Aug-95	05:12 AM	67.9	HIGH
23-Aug-95	01:41 PM	56.7	LOW
24-Aug-95	06:18 AM	70.7	HIGH
24-Aug-95	01:31 PM	56.0	LOW
25-Aug-95	10:01 AM	75.2	HIGH
25-Aug-95	05:15 PM	59.9	LOW
26-Aug-95	10:24 AM	80.1	HIGH
26-Aug-95	05:36 PM	60.4	LOW
27-Aug-95	10:15 AM	78.0	HIGH
27-Aug-95	04:41 PM	56.6	LOW
28-Aug-95	12:10 PM	77.6	HIGH
28-Aug-95	06:35 PM	60.4	LOW
29-Aug-95	11:48 AM	80.5	HIGH
29-Aug-95	05:37 PM	64.0	LOW
30-Aug-95	12:26 PM	81.8	HIGH
30-Aug-95	07:12 PM	63.5	LOW
31-Aug-95	01:10 PM	85.4	HIGH
31-Aug-95	08:11 PM	64.4	LOW

Aug-95 SUMMARY

	HIGH	LOW
AVG.	77.9	59.0
MAX.	89.6	65.7
MIN.	61.8	53.4

01-Sep-95	09:35 AM	84.0	HIGH
01-Sep-95	07:53 PM	62.0	LOW
02-Sep-95	11:40 AM	84.4	HIGH
02-Sep-95	06:41 PM	56.8	LOW

03-Sep-95	03:24 AM	59.3	LOW
03-Sep-95	12:52 PM	82.3	HIGH
04-Sep-95	10:07 AM	85.6	HIGH
04-Sep-95	08:52 PM	64.9	LOW
05-Sep-95	07:32 AM	75.9	HIGH
05-Sep-95	07:27 PM	54.7	LOW
06-Sep-95	10:16 AM	77.5	HIGH
06-Sep-95	07:36 PM	54.8	LOW
07-Sep-95	01:29 AM	52.4	LOW
07-Sep-95	10:10 AM	74.9	HIGH
08-Sep-95	10:11 AM	75.4	HIGH
08-Sep-95	09:15 PM	47.7	LOW
09-Sep-95	09:27 AM	69.4	HIGH
09-Sep-95	06:41 PM	49.0	LOW
10-Sep-95	03:08 AM	53.9	LOW
10-Sep-95	10:52 AM	73.8	HIGH
11-Sep-95	09:13 AM	70.5	HIGH
11-Sep-95	03:39 PM	53.2	LOW
12-Sep-95	02:34 AM	51.8	LOW
12-Sep-95	11:10 AM	74.1	HIGH
13-Sep-95	01:59 AM	54.2	LOW
13-Sep-95	09:47 AM	76.2	HIGH
14-Sep-95	10:11 AM	77.1	HIGH
14-Sep-95	07:55 PM	53.1	LOW
15-Sep-95	01:58 AM	53.1	LOW
15-Sep-95	10:00 AM	77.3	HIGH
16-Sep-95	10:43 AM	81.6	HIGH
16-Sep-95	10:14 PM	57.3	LOW
17-Sep-95	05:29 AM	68.4	HIGH
17-Sep-95	06:00 PM	46.4	LOW
18-Sep-95	06:52 AM	62.4	HIGH
18-Sep-95	04:54 PM	47.0	LOW
19-Sep-95	09:30 AM	68.6	HIGH
19-Sep-95	04:38 PM	53.5	LOW
20-Sep-95	07:02 AM	65.0	HIGH
20-Sep-95	05:46 PM	34.9	LOW
21-Sep-95	07:45 AM	54.1	HIGH
21-Sep-95	06:39 PM	32.9	LOW
22-Sep-95	09:57 AM	60.4	HIGH
22-Sep-95	02:07 PM	47.5	LOW
23-Sep-95	08:47 AM	62.5	HIGH
23-Sep-95	07:56 PM	44.3	LOW
24-Sep-95	10:45 AM	60.1	HIGH
24-Sep-95	08:33 PM	37.8	LOW
25-Sep-95	10:08 AM	63.0	HIGH
25-Sep-95	07:15 PM	41.3	LOW

26-Sep-95	02:07 AM	45.5	LOW
26-Sep-95	08:57 AM	61.7	HIGH
27-Sep-95	09:05 AM	68.8	HIGH
27-Sep-95	05:28 PM	49.6	LOW
28-Sep-95	06:44 AM	63.9	HIGH
28-Sep-95	02:27 PM	44.7	LOW
29-Sep-95	05:41 AM	43.1	HIGH
29-Sep-95	05:50 PM	33.6	LOW
30-Sep-95	08:29 AM	54.8	HIGH
30-Sep-95	12:29 PM	38.6	LOW

Sep-95 SUMMARY

	HIGH	LOW
AVG.	69.9	49.2
MAX.	85.6	64.9
MIN.	43.1	32.9

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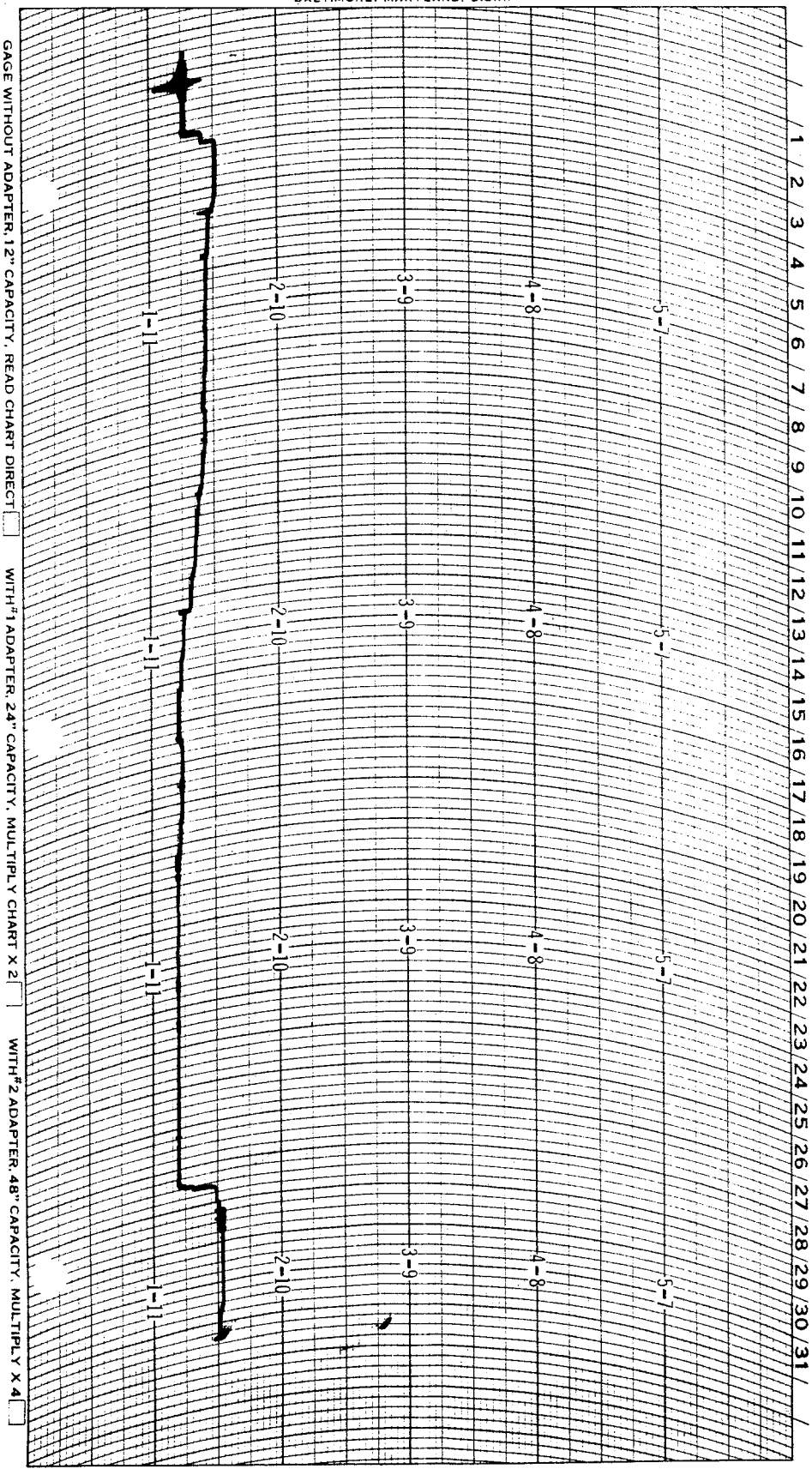
CHART NO. 15668

12-INCH DUAL TRAVERSE MONTHLY-861 HRS.
UNIVERSAL RAIN GAGE

BELFORT INSTRUMENT COMPANY
BALTIMORE, MARYLAND, U.S.A.



GAGE WITHOUT ADAPTER, 12" CAPACITY, READ CHART DIRECT ☐ WITH #1 ADAPTER, 24" CAPACITY, MULTIPLY CHART X 2 ☐ WITH #2 ADAPTER, 48" CAPACITY, MULTIPLY X 4 ☐

OBSERVER Karl R. Houskeeper ON 1055 A.M. P.M. 9/1 19 95

STATION E. MTN OFF 1214 A.M. P.M. 10/2 19 95

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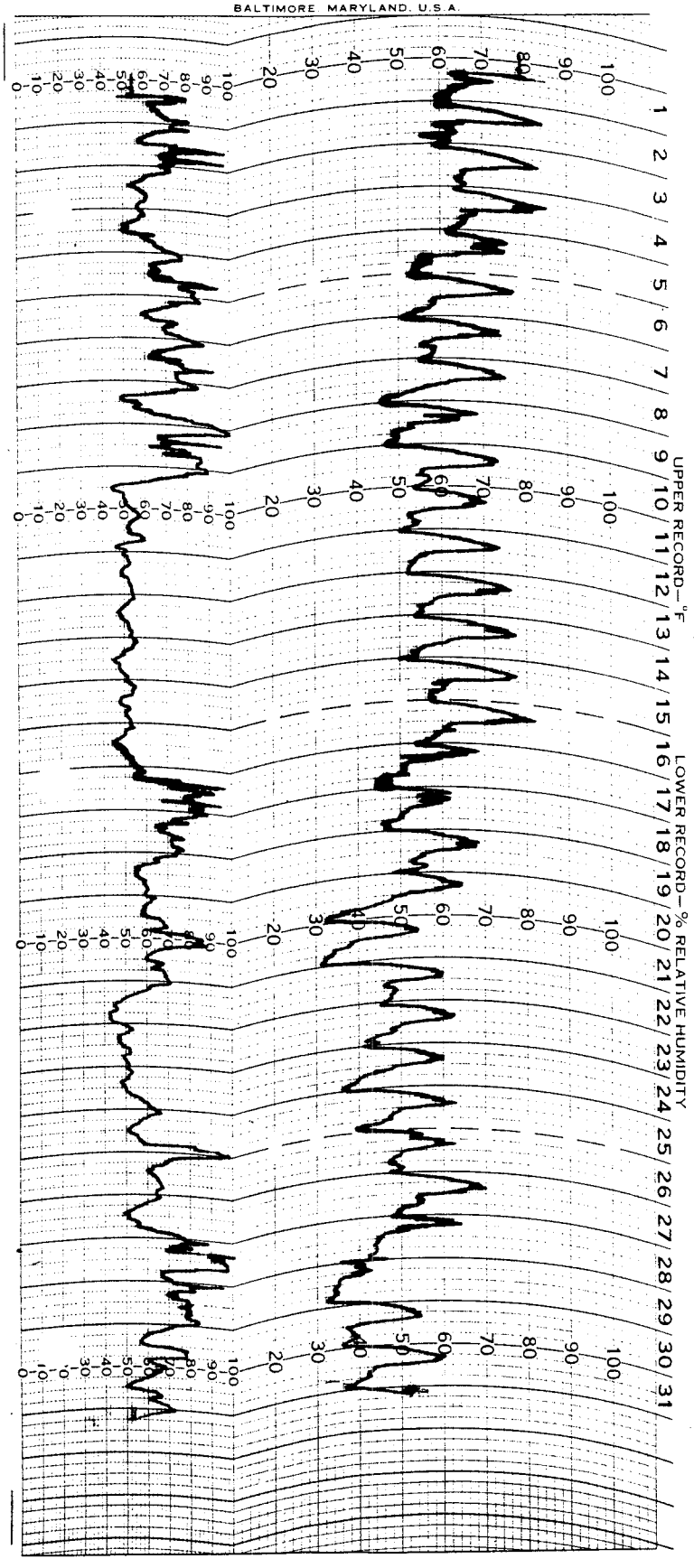
HYGROTHERMOGRAPH
CHART NO. 15627
MONTHLY-861 HRS.
BELFORT INSTRUMENT COMPANY
BALTIMORE MARYLAND, U.S.A.



OBSERVER Karl R. Harskeppe 1102 A.M. P.M. 9/1 1995

STATION E. MTN OFF 1202 A.M. P.M. 10/2 1995

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CHART NO. 15668

12-INCH DUAL TRAVERSE MONTHLY-861 HRS.
UNIVERSAL RAIN GAGE

BELFORT INSTRUMENT COMPANY
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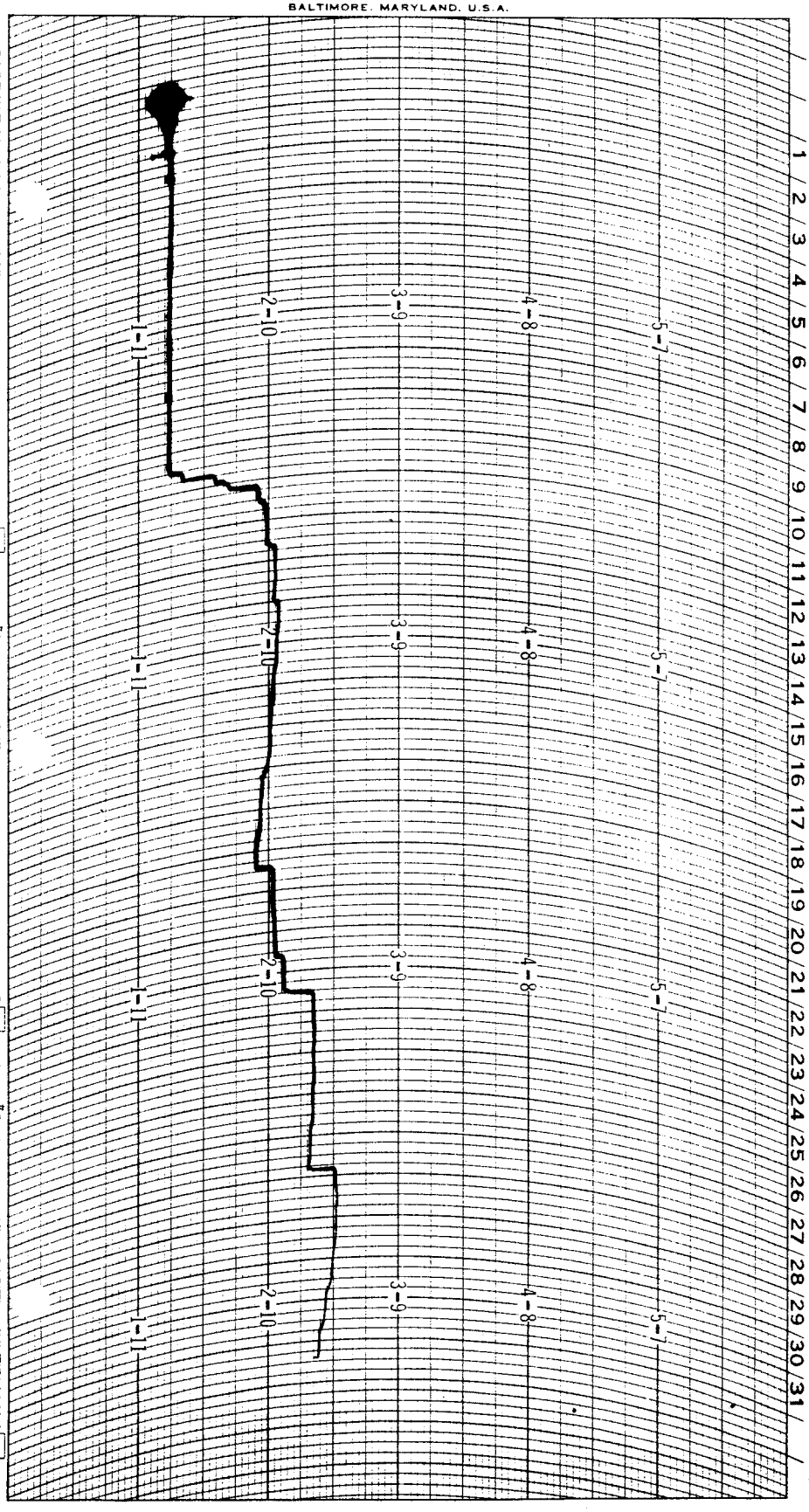

GAGE WITHOUT ADAPTER, 12" CAPACITY, READ CHART DIRECT ☐ WITH #1 ADAPTER, 24" CAPACITY, MULTIPLY CHART X 2 ☐ WITH #2 ADAPTER, 48" CAPACITY, MULTIPLY X 4 ☐

OBSERVER Karl Housteeper

STATION

ON 1232 A.M. P.M. Aug 1 19 95

OFF 1050 A.M. P.M. 9/1 19 95

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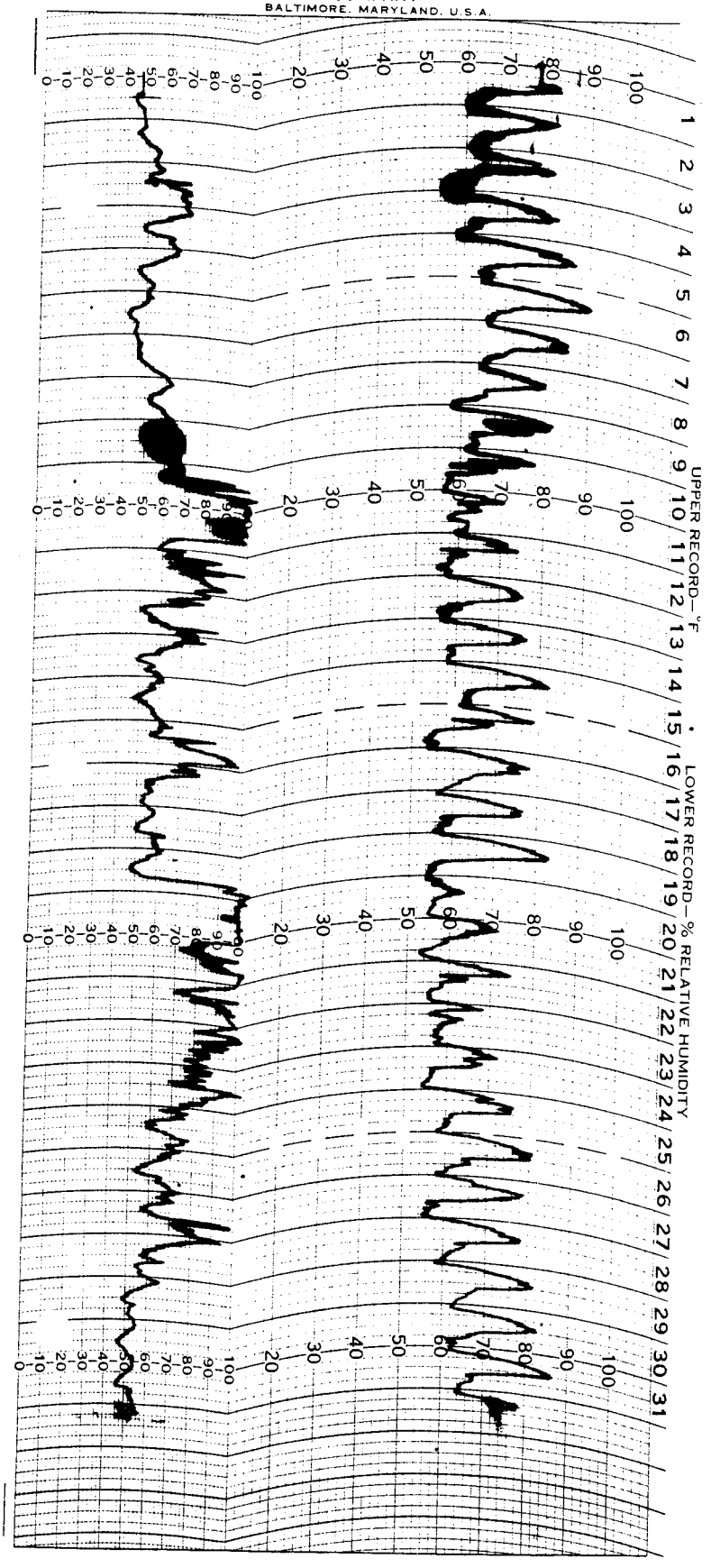
HYGROTHERMOGRAPH
CHART NO. 15627
MONTHLY-861 HRS.
BELFORT INSTRUMENT COMPANY
BALTIMORE, MARYLAND, U.S.A.



OBSERVER Karl Houstecpee ON 1237 A.M. P.M. Aug 1 1995

STATION _____ OFF 1101 A.M. P.M. 9/1 1995

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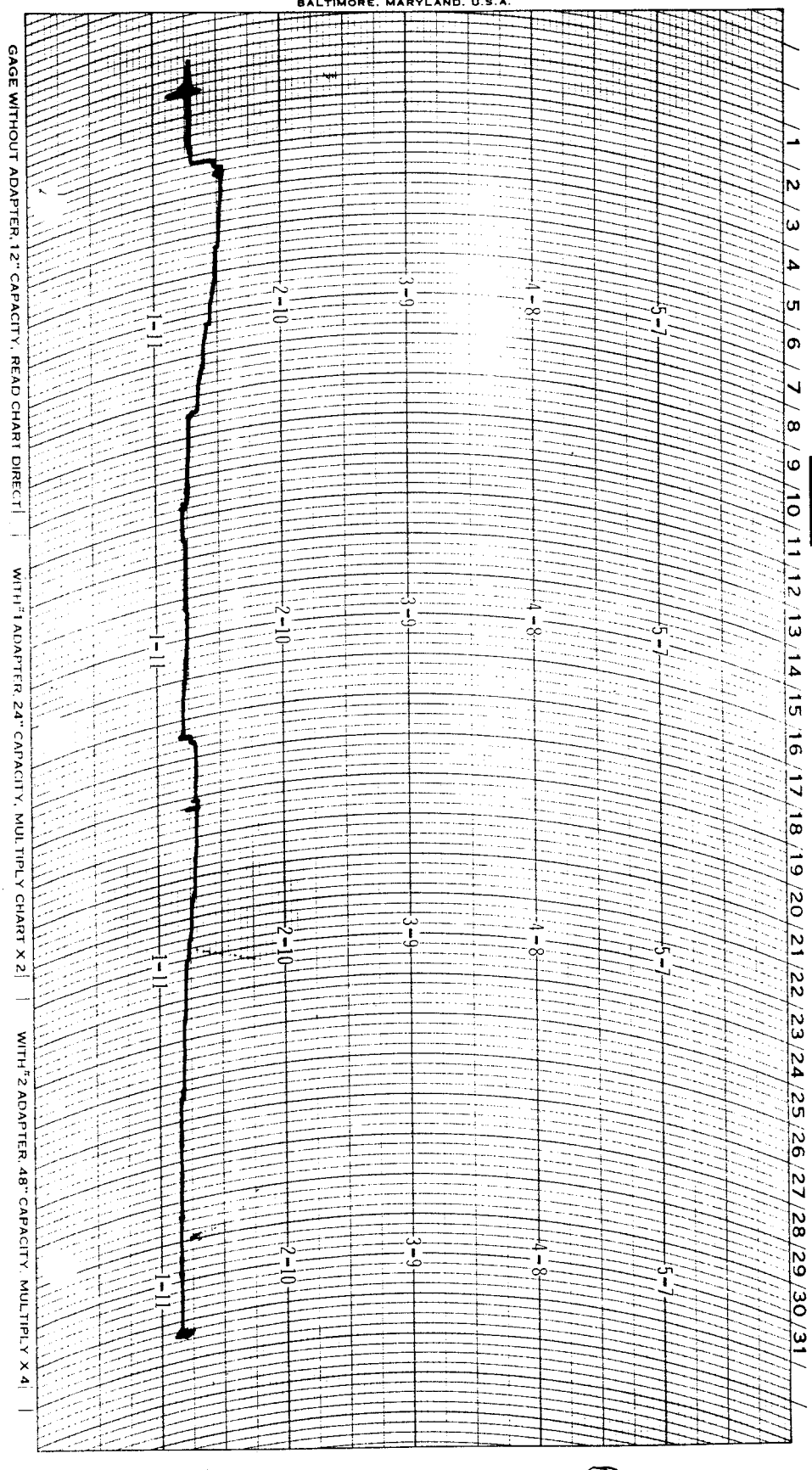
CHART NO. 15668

12-INCH DUAL TRAVERSE MONTHLY-861 HRS.

UNIVERSAL RAIN GAGE

BELFORT INSTRUMENT COMPANY

BALTIMORE, MARYLAND, U.S.A.



OBSERVER Karl R. Housekeeper

STATION East Mountain

ON 1045 A.M. P.M. July 1 19 95

OFF 1231 A.M. P.M. Aug 1 19 95

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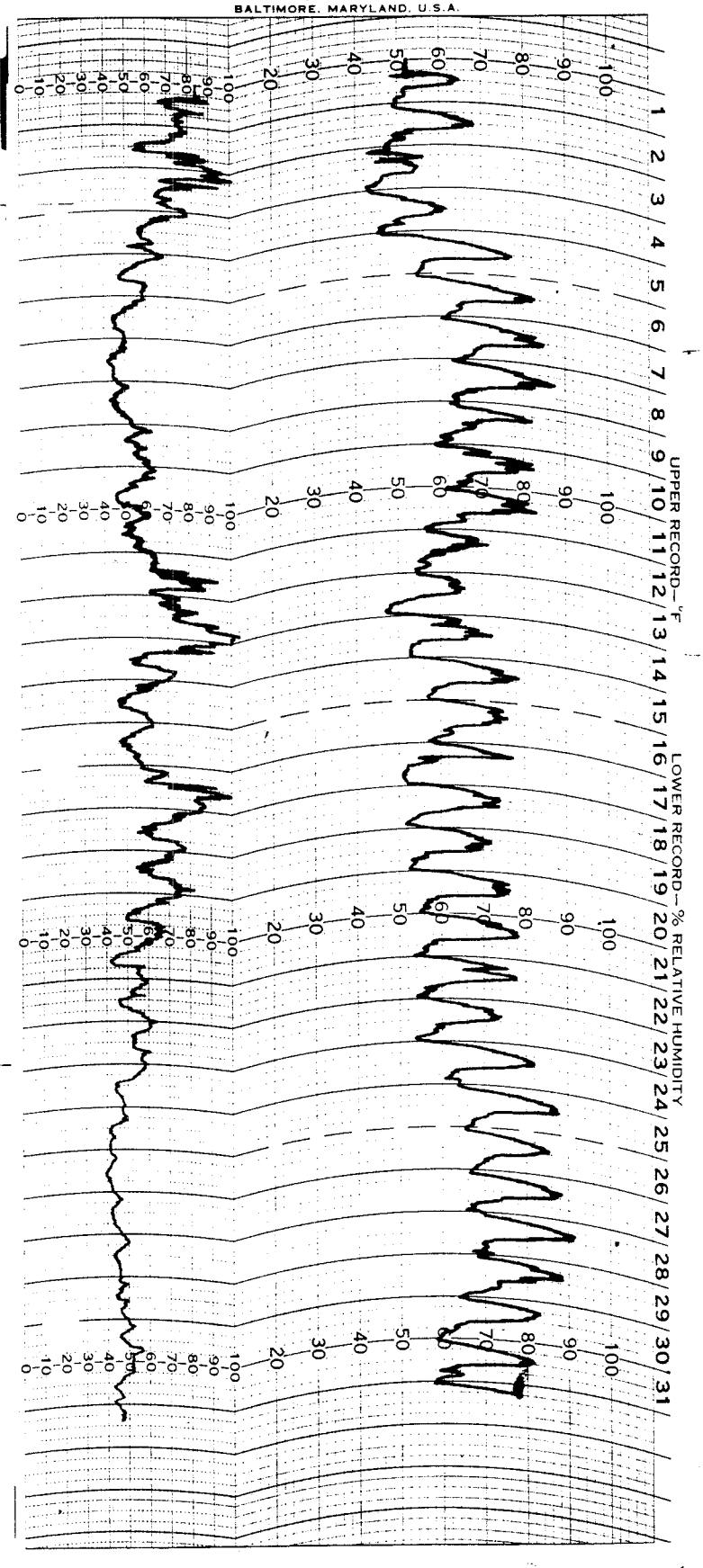
HYGROTHERMOGRAPH

CHART NO. 15627

MONTHLY-861 HRS.

BELFORT INSTRUMENT COMPANY

BALTIMORE, MARYLAND, U.S.A.



OBSERVER Karl R. Houstmeyer ON 1047 A.M. P.M. July 1 19 95

STATION East mountain OFF 1236 A.M. P.M. Aug 1 19 95

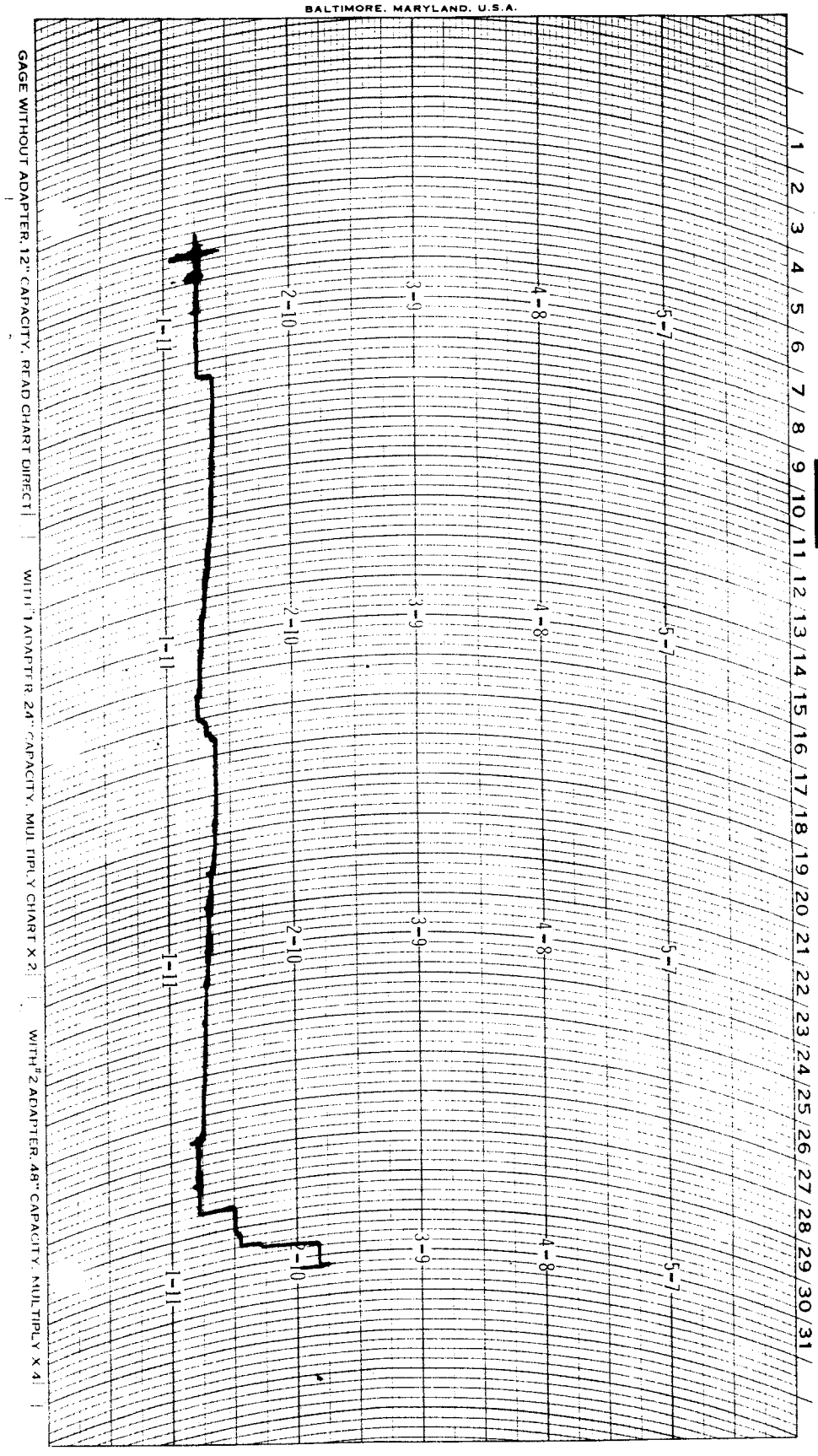
CHART NO. 15668

12-INCH DUAL TRAVERSE MONTHLY-861 HRS.

UNIVERSAL RAIN GAGE

BELFORT INSTRUMENT COMPANY

BALTIMORE, MARYLAND, U.S.A.



OBSERVER Karl R. Housteeper

STATION

ON 1010 A.M. P.M. June 5 19 95

OFF 1040 A.M. P.M. July 1 19 95

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HYGROTHERMOGRAPH

CHART NO. 15627

MONTHLY-861 HRS.

BELFORT INSTRUMENT COMPANY

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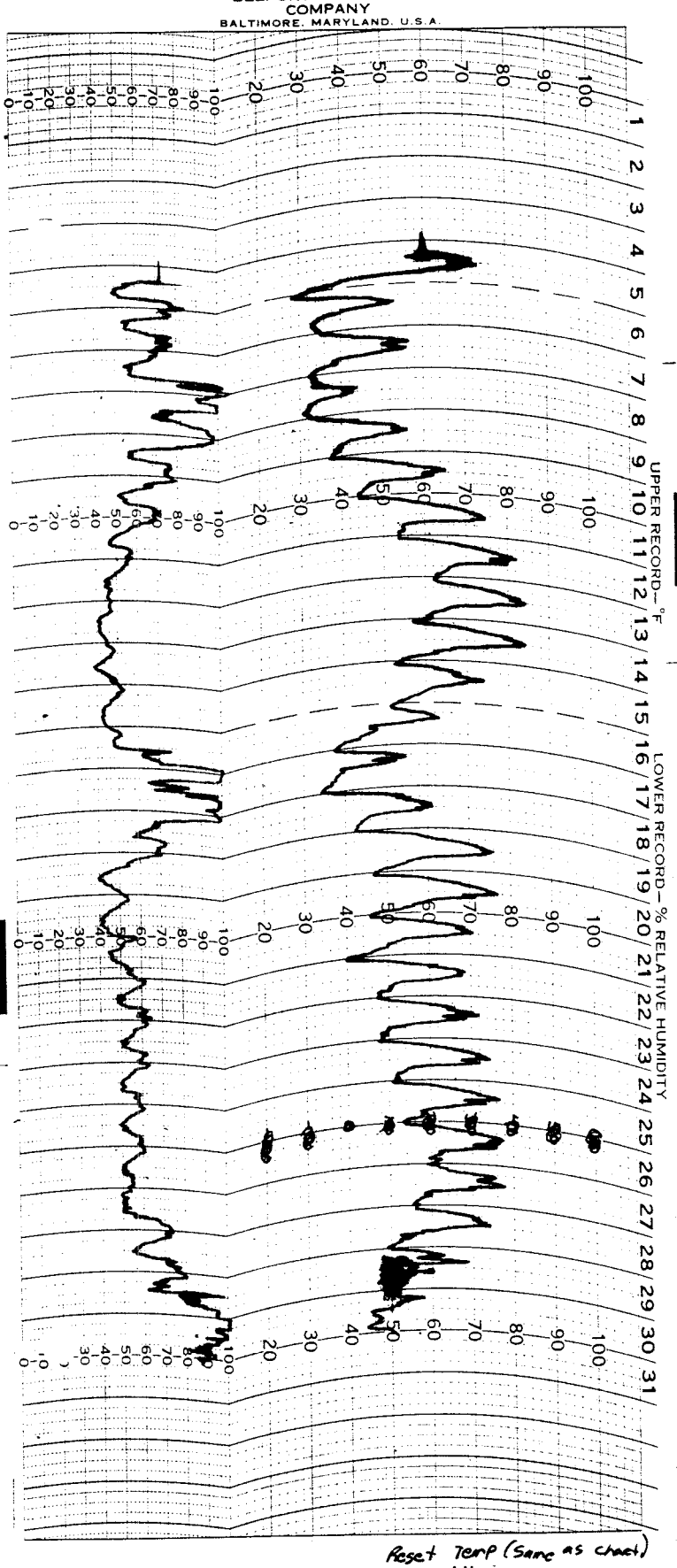

Reset Temp (Same as chart)

OBSERVER Karl R. Housekeeper ON 1021 A.M. P.M. June 5 1995

STATION _____ OFF 1046 A.M. P.M. July 1 1995

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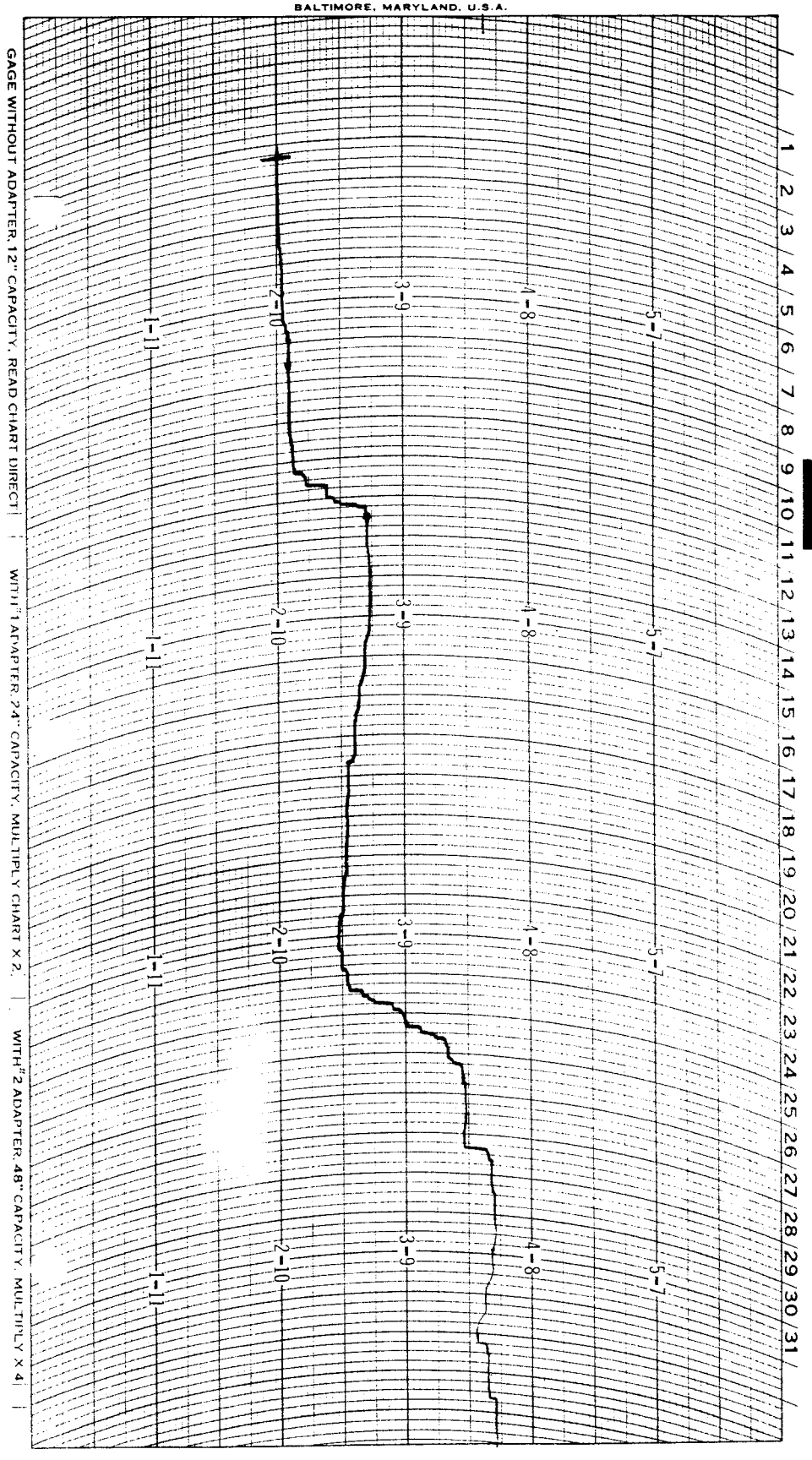
CHART NO. 15668

12-INCH DUAL TRAVERSE MONTHLY-861 HRS.

UNIVERSAL RAIN GAGE

BELFORT INSTRUMENT COMPANY

BALTIMORE, MARYLAND, U.S.A.



OBSERVER Karl R. Housekeeper

STATION

ON 950 A.M. P.M. May 3 1995

OFF 1006 A.M. P.M. June 5 1995

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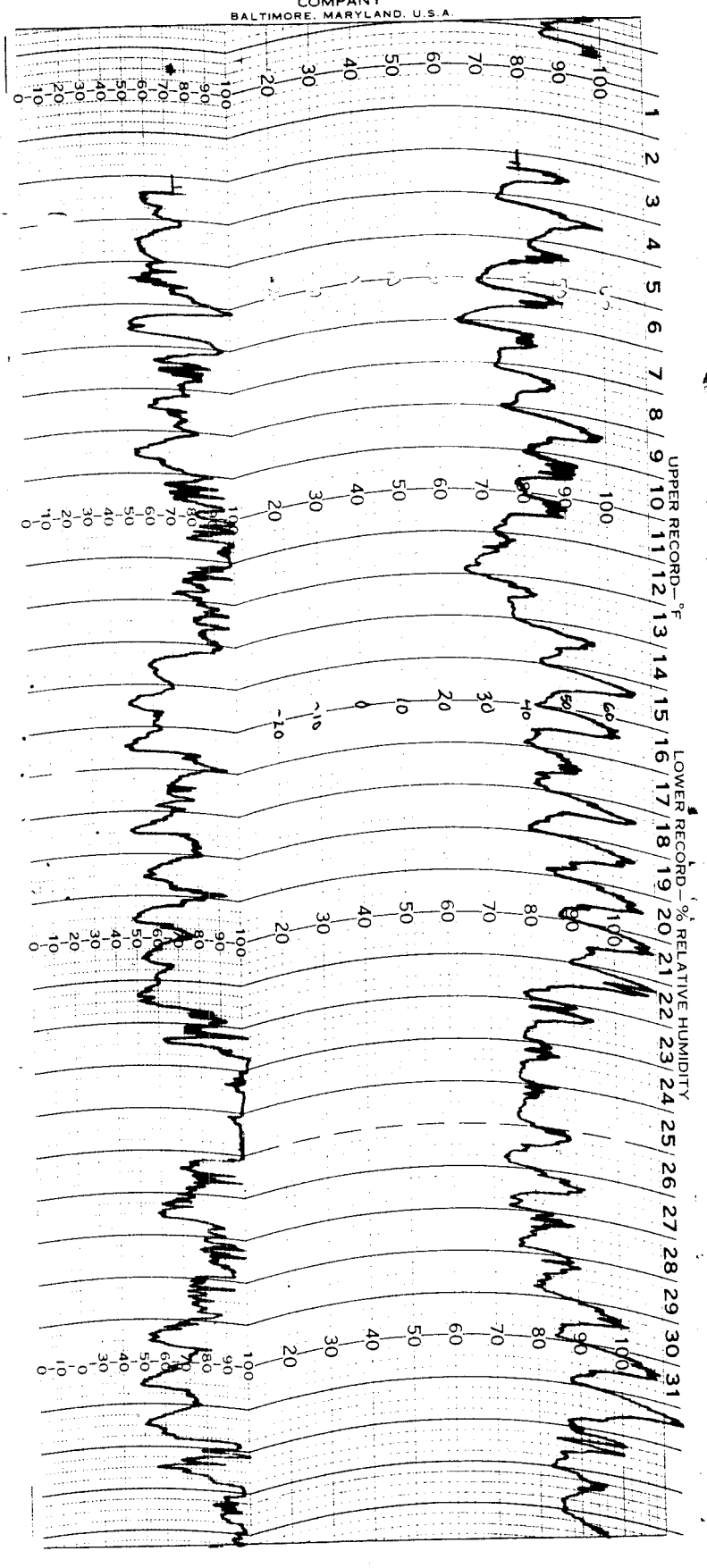
HYGROTHERMOGRAPH

CHART NO. 15627

MONTHLY-861 HRS.

BELFORT INSTRUMENT COMPANY

BALTIMORE, MARYLAND, U.S.A.



OBSERVER Karl R. Houston ON 857 A.M. P.M. May 3 1995

STATION _____ OFF 1019 A.M. P.M. June 5 1995

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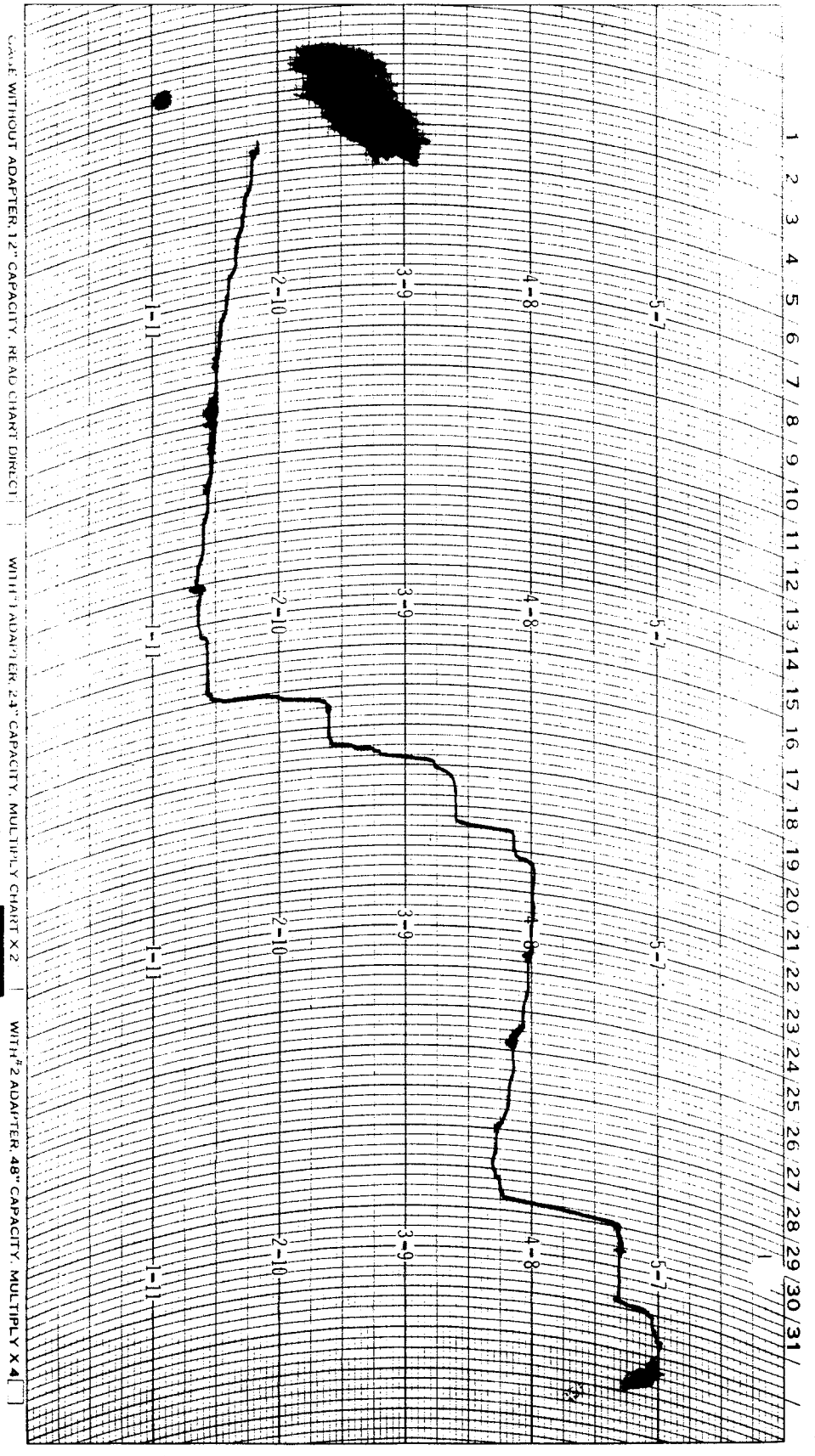
CHART NO. 15668

12-INCH DUAL TRAVERSE MONTHLY-861 HRS.

UNIVERSAL RAIN GAGE

BELFORT INSTRUMENT COMPANY

BALTIMORE, MARYLAND, U.S.A.



OBSERVER Semborski

STATION East Mountain

ON April 3 A.M. P.M. 12:20 19 95

OFF May 3 A.M. P.M. 9 47 19 95

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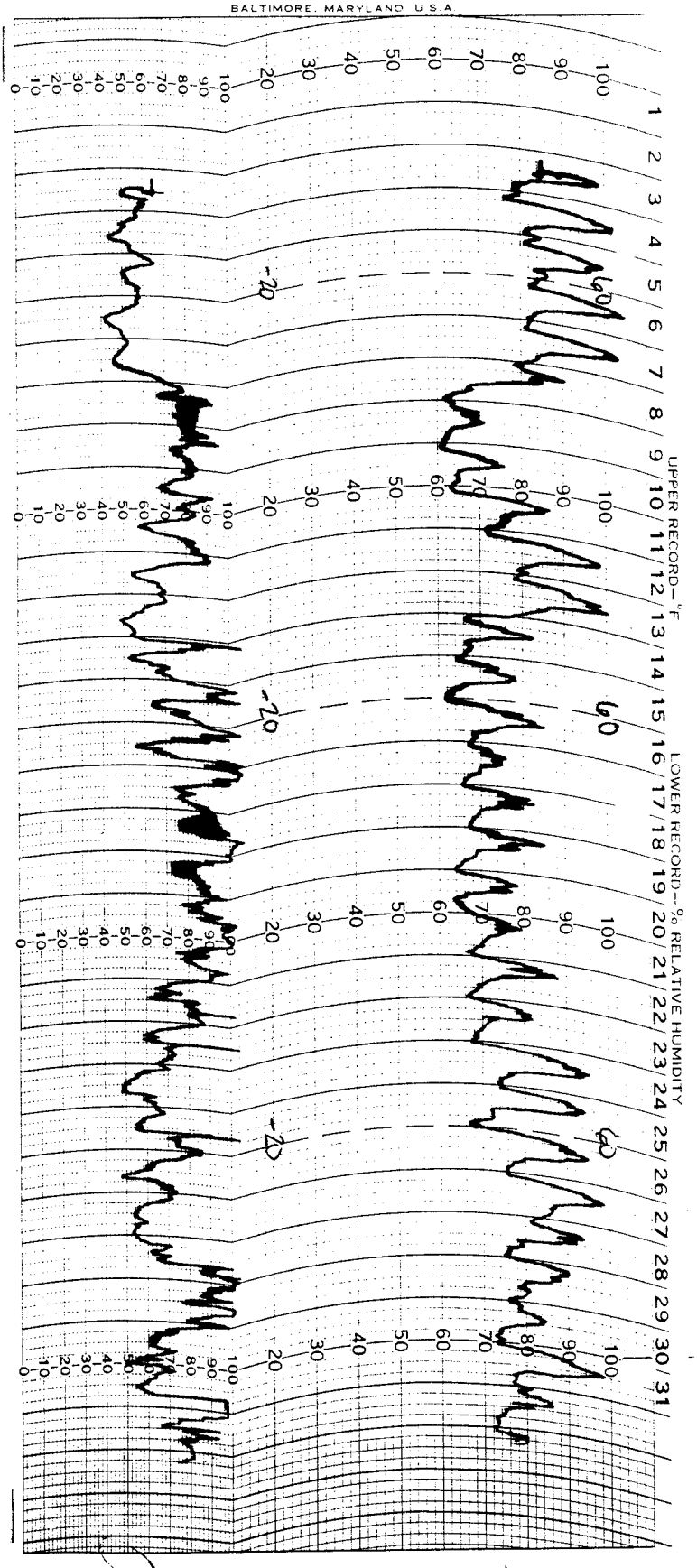
HYGROTHERMOGRAPH
CHART NO. 15627
MONTHLY-861 HRS.
BELFORT INSTRUMENT COMPANY
BALTIMORE, MARYLAND U.S.A.



OBSERVER EMBORSKI ON 12:05 A.M. P.M. APRIL 3 1995

STATION EAST MTN OFF 955 A.M. P.M. MAY 3 1995

PRINTED IN U.S.A.

CHART NO. 15668

12-INCH DUAL TRAVERSE MONTHLY-861 HRS.
UNIVERSAL RAIN GAGE

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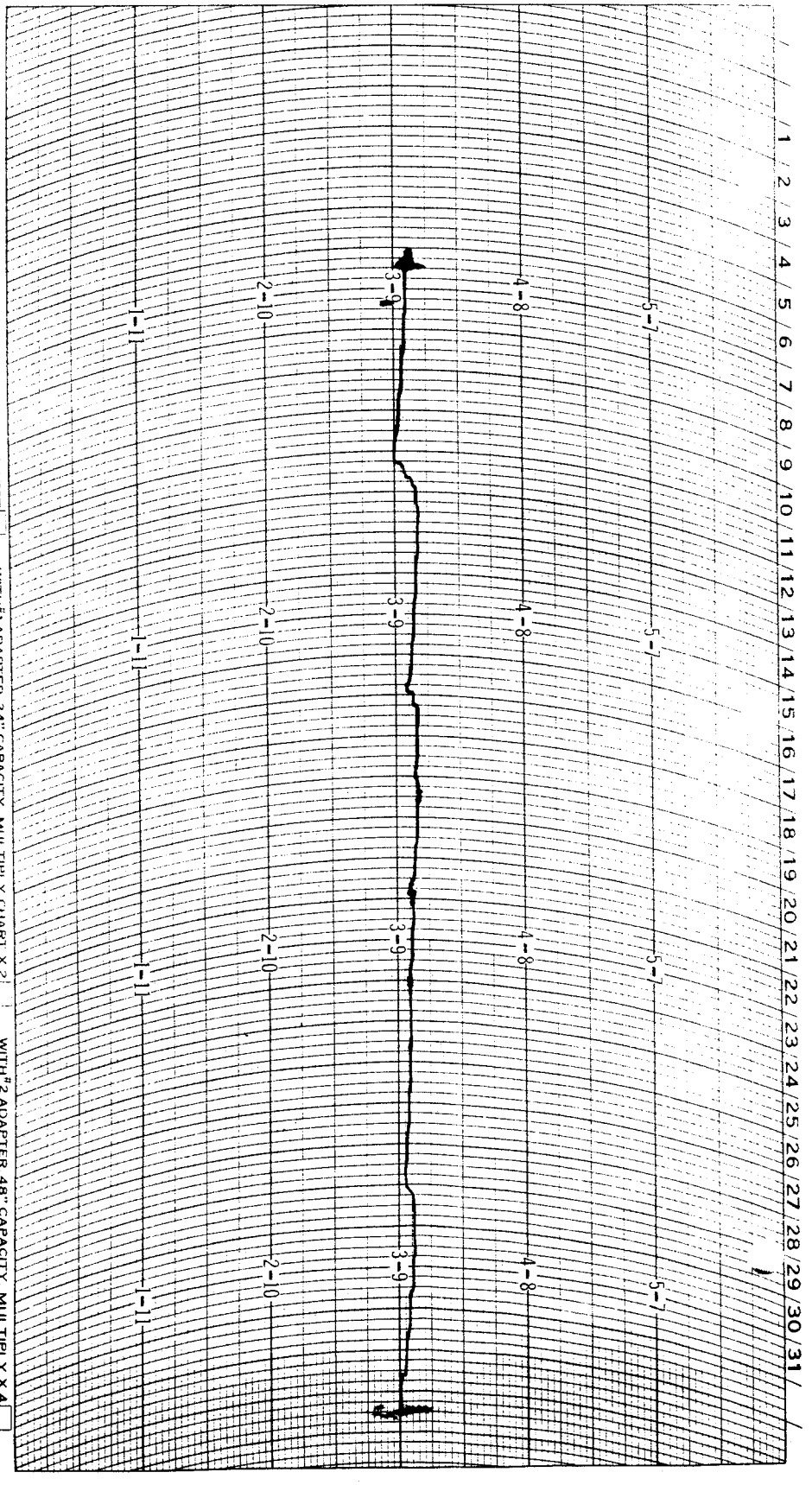

GAGE WITHOUT ADAPTER, 12" CAPACITY, READ CHART DIRECT ☐ WITH #1 ADAPTER, 24" CAPACITY, MULTIPLY CHART X 2 ☐ WITH #2 ADAPTER, 48" CAPACITY, MULTIPLY X 4 ☐

OBSERVER Karl R. Housteeper ON 1114 A.M. P.M. March 6 19 95

STATION _____ OFF 1220 A.M. P.M. April 3 19 95

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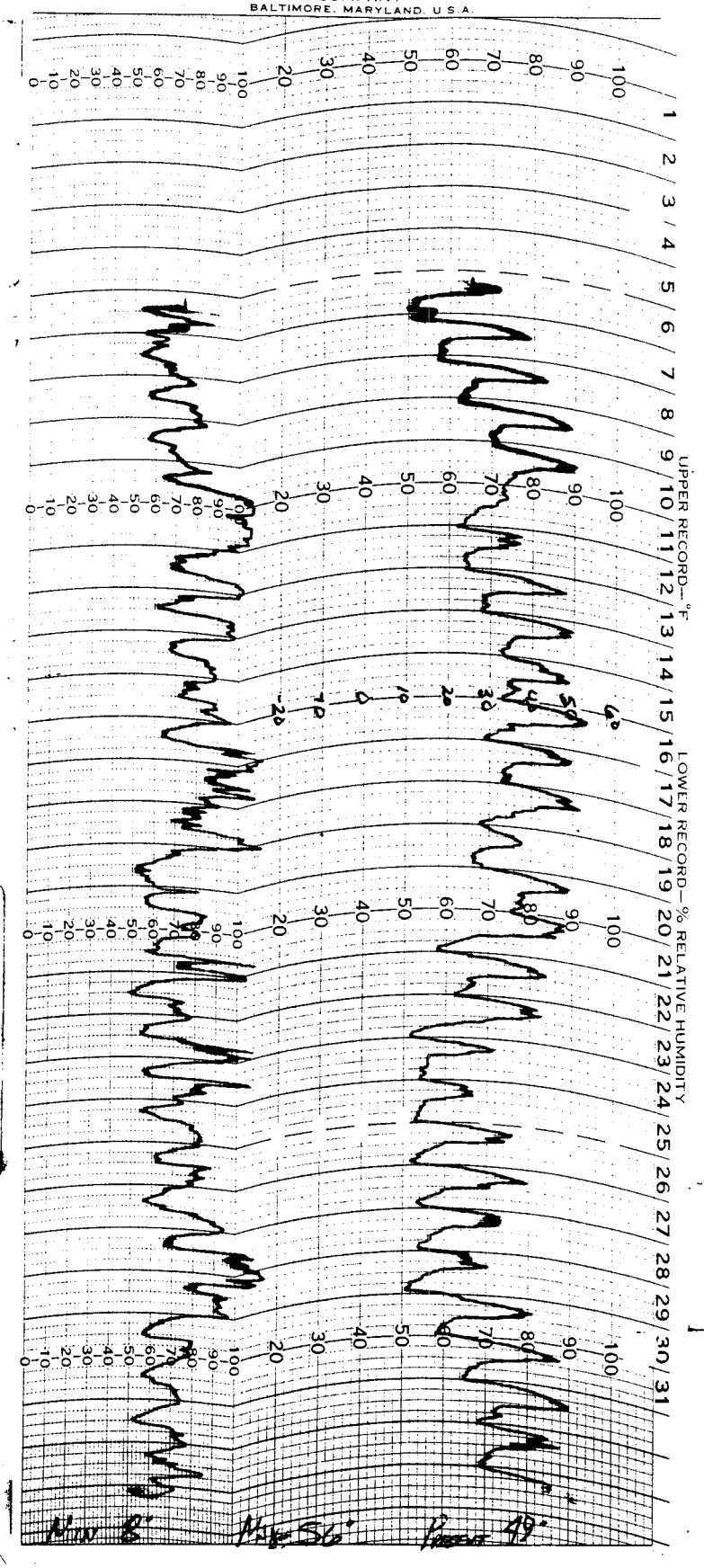
HYGROTHERMOGRAPH
CHART NO. 15627
MONTHLY-861 HRS.
BELFORT INSTRUMENT COMPANY
BALTIMORE, MARYLAND, U.S.A.



OBSERVER Karl R. Houstepox ON 1610 A.M. P.M. March 6 1995

PRINTED IN U.S.A.

CHART NO. 15668

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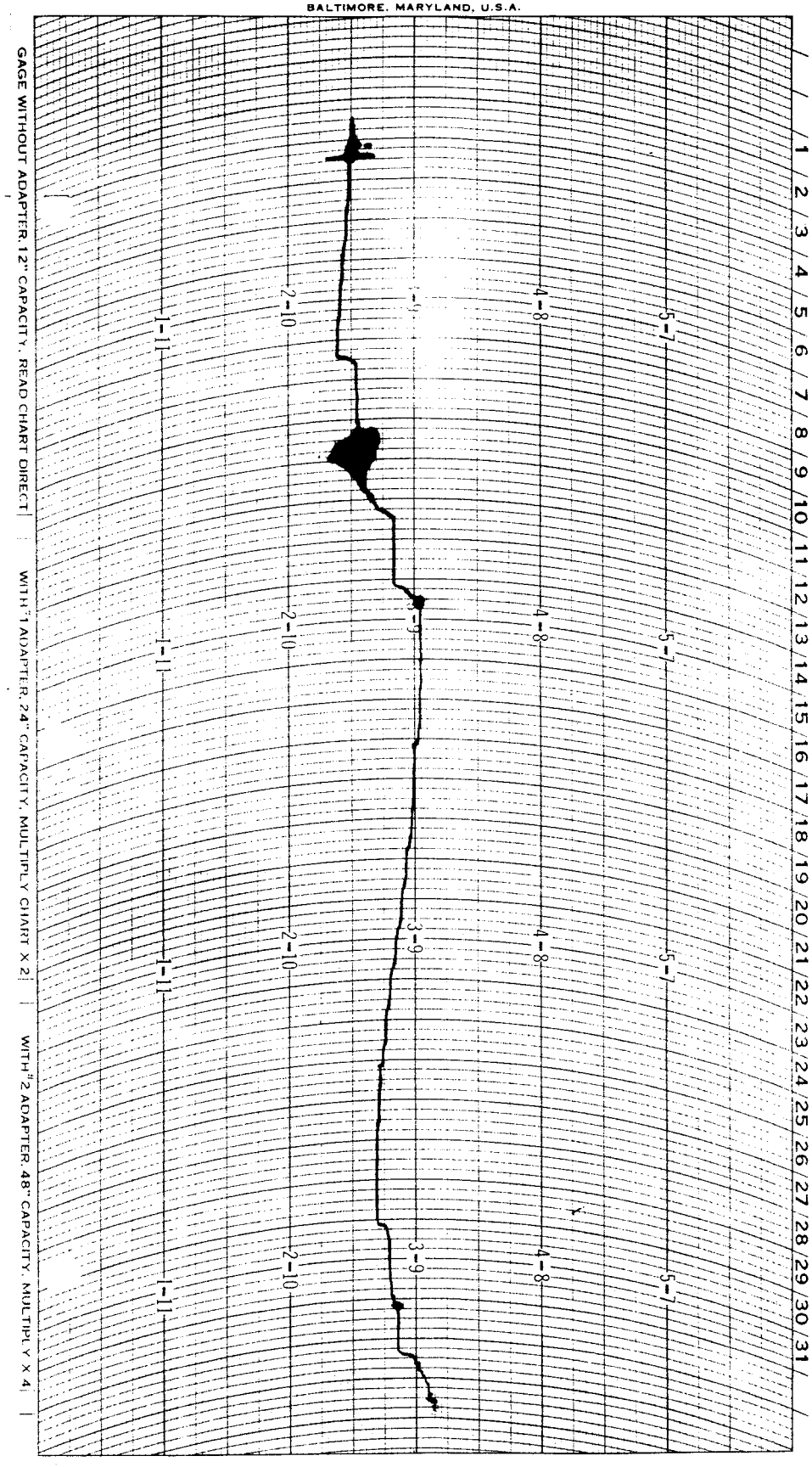
UNIVERSAL RAIN GAGE

BELFORT INSTRUMENT COMPANY

BALTIMORE, MARYLAND, U.S.A.



OBSERVER Karl R. Housekeeper ON 1234 A.M. P.M. Feb 3 19 95

STATION _____ OFF 1113 A.M. P.M. mar 6 19 95

PRINTED IN U.S.A.

HYGROTHERMOGRAPH

CHART NO. 15627

MONTHLY-861 HRS.

BELFORT INSTRUMENT COMPANY

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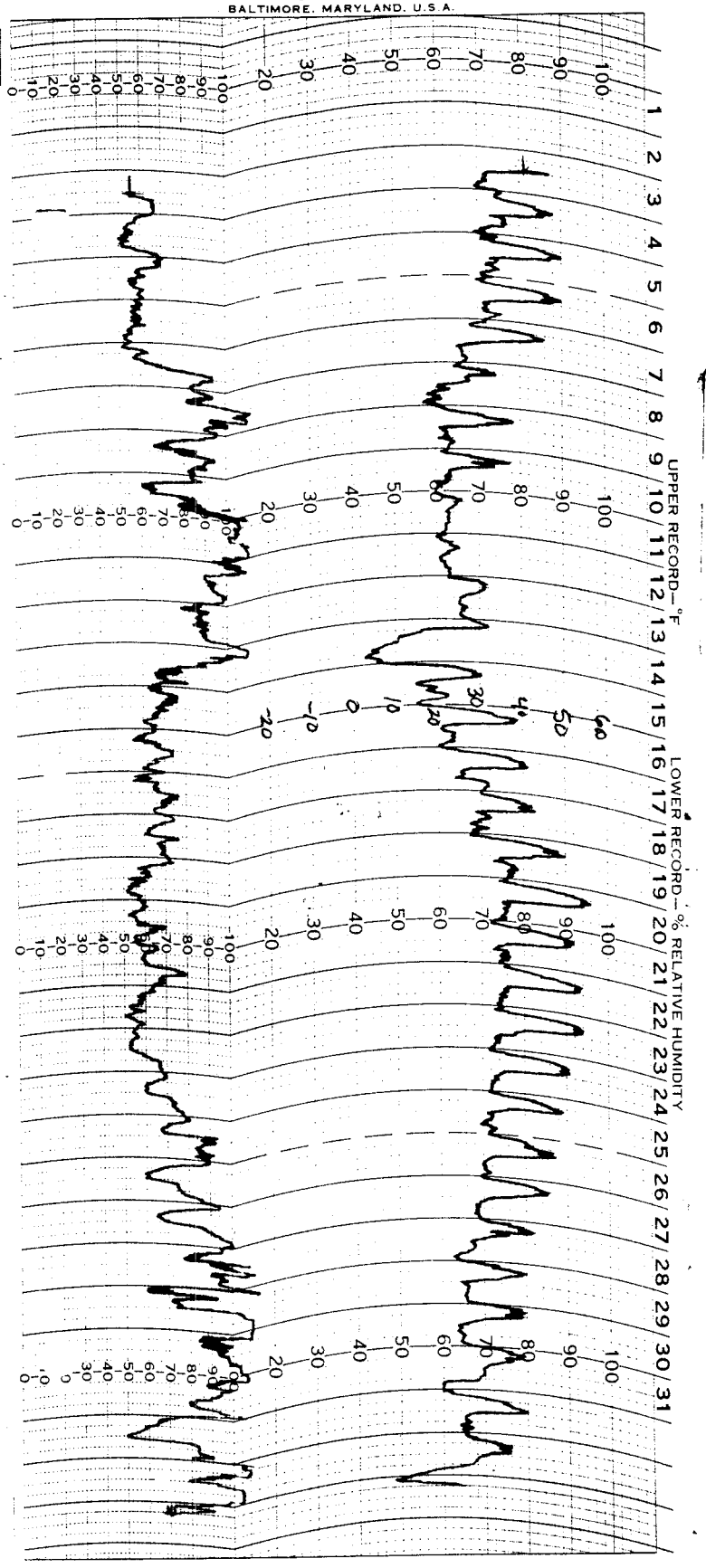

OBSERVER Karl R. Houskeeper ON #1240 A.M. P.M. Feb 3 19 95

STATION _____ OFF 1109 A.M. P.M. March 6 19 95

PRINTED IN U.S.A.

CHART NO. 15668

12-INCH DUAL TRAVERSE MONTHLY-861 HRS.
UNIVERSAL RAIN GAGE

BELFORT INSTRUMENT COMPANY
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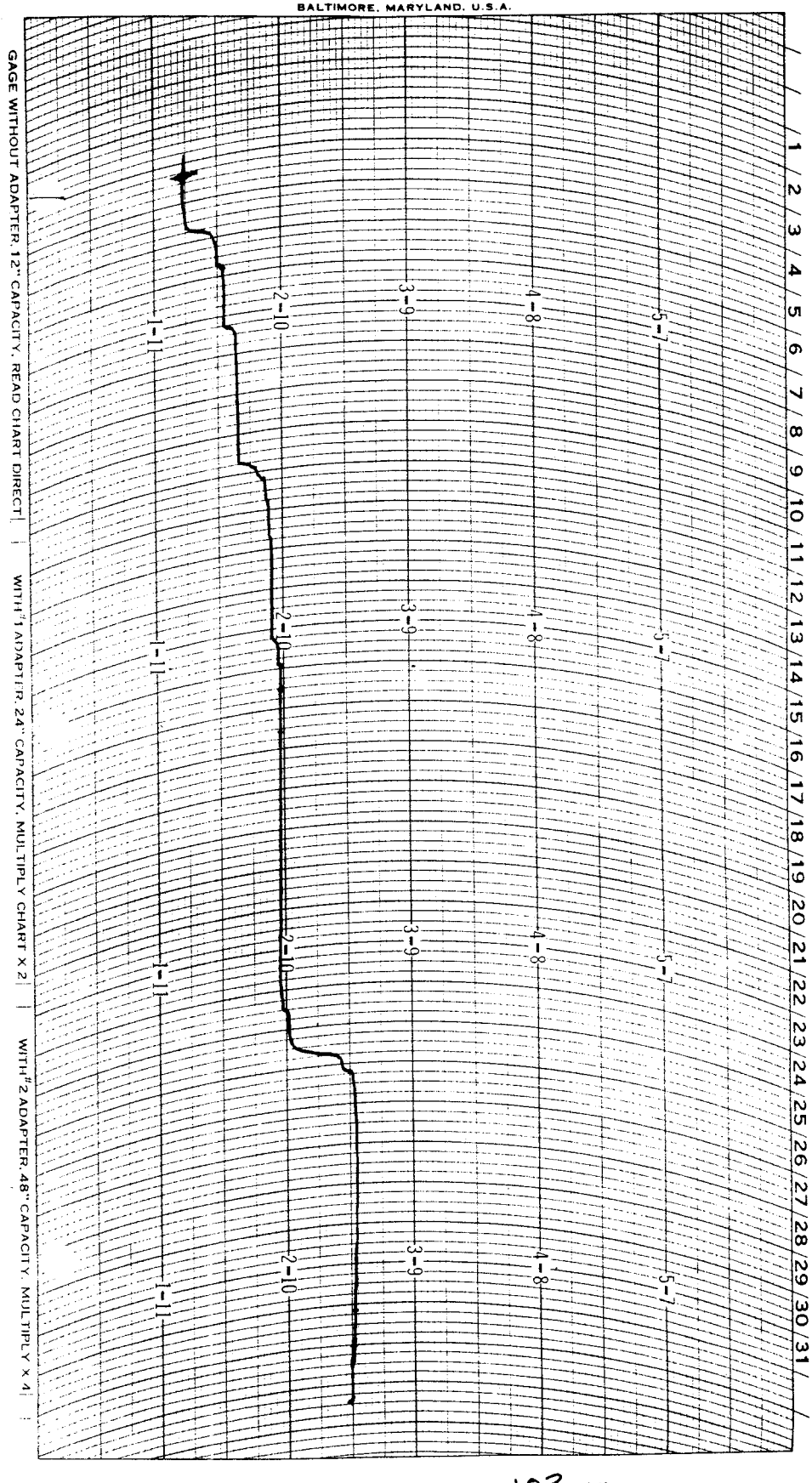


OBSERVER Karl R. Housskeeper

STATION

ON 1103 A.M. P.M. Jan 3 1995

OFF 1232 A.M. P.M. Feb 3 1995

PRINTED IN U.S.A.

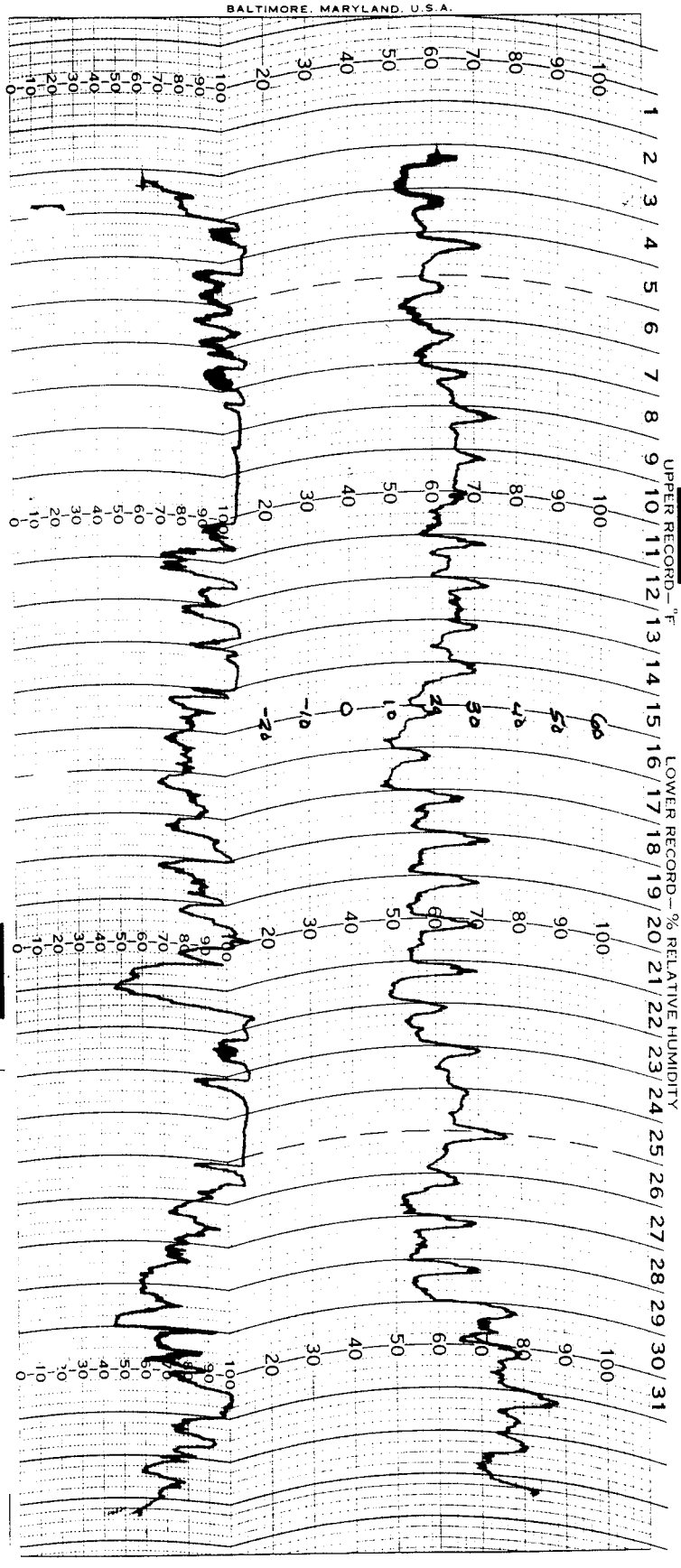
HYGROTHERMOGRAPH

CHART NO. 15627

MONTHLY-861 HRS.

BELFORT INSTRUMENT COMPANY

BALTIMORE, MARYLAND, U.S.A.



OBSERVER Karl R. Housteepor 1110 A.M. P.M. Jan. 3 1995

STATION _____ OFF 1238 A.M. P.M. Feb. 3 1995

PRINTED IN U.S.A.

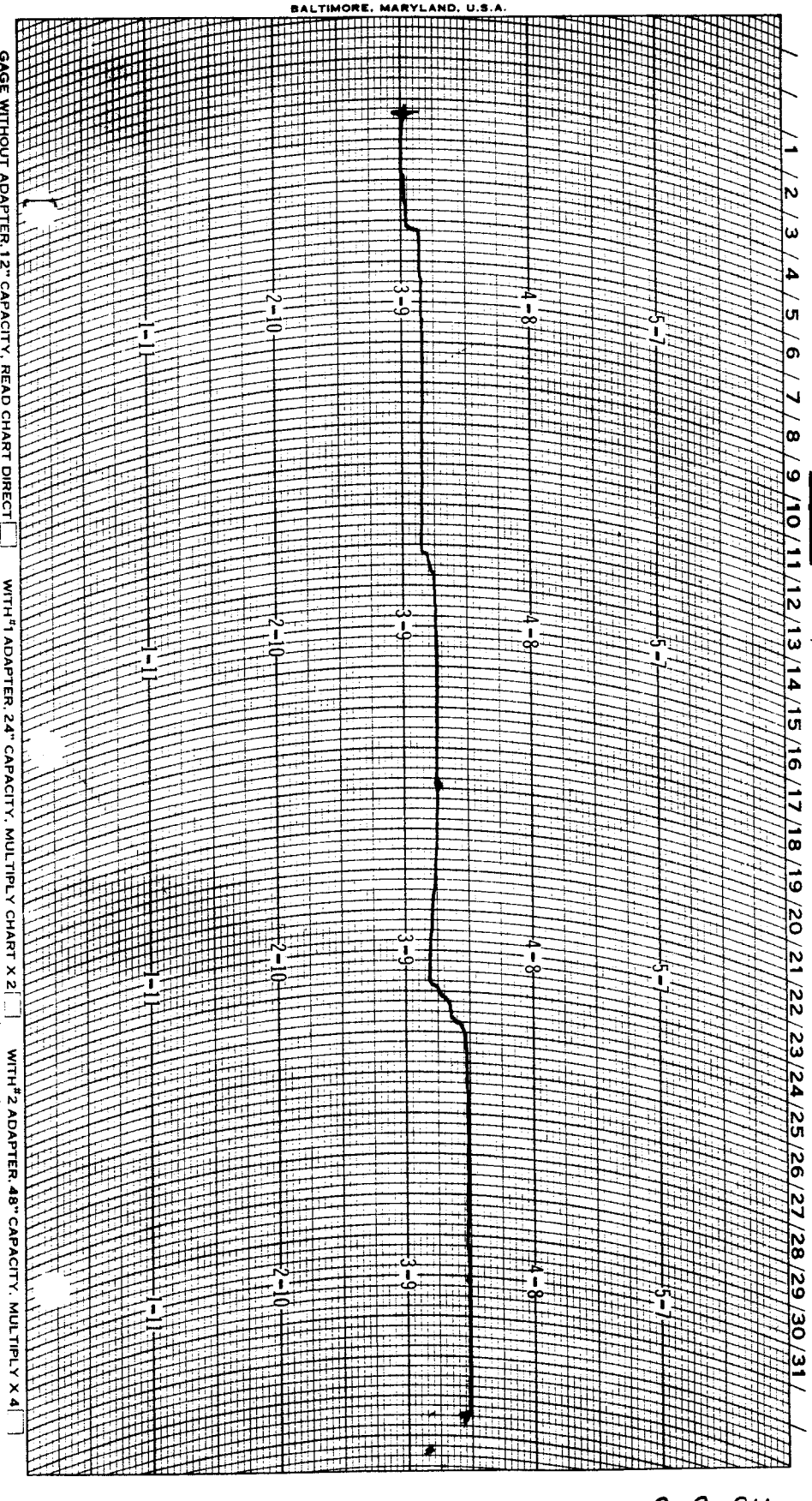
CHART NO. 15663

12-INCH DUAL TRAVERSE MONTHLY-861 HRS.

UNIVERSAL RAIN GAGE

BELFORT INSTRUMENT COMPANY

BALTIMORE, MARYLAND, U.S.A.



GAGE WITHOUT ADAPTER, 12" CAPACITY, READ CHART DIRECT ☐ WITH #1 ADAPTER, 24" CAPACITY, MULTIPLY CHART X 2 ☐ WITH #2 ADAPTER, 48" CAPACITY, MULTIPLY X 4 ☐

OBSERVER Karl R. Houstepper

STATION

ON 1047 A.M. P.M. 12-2 19 94

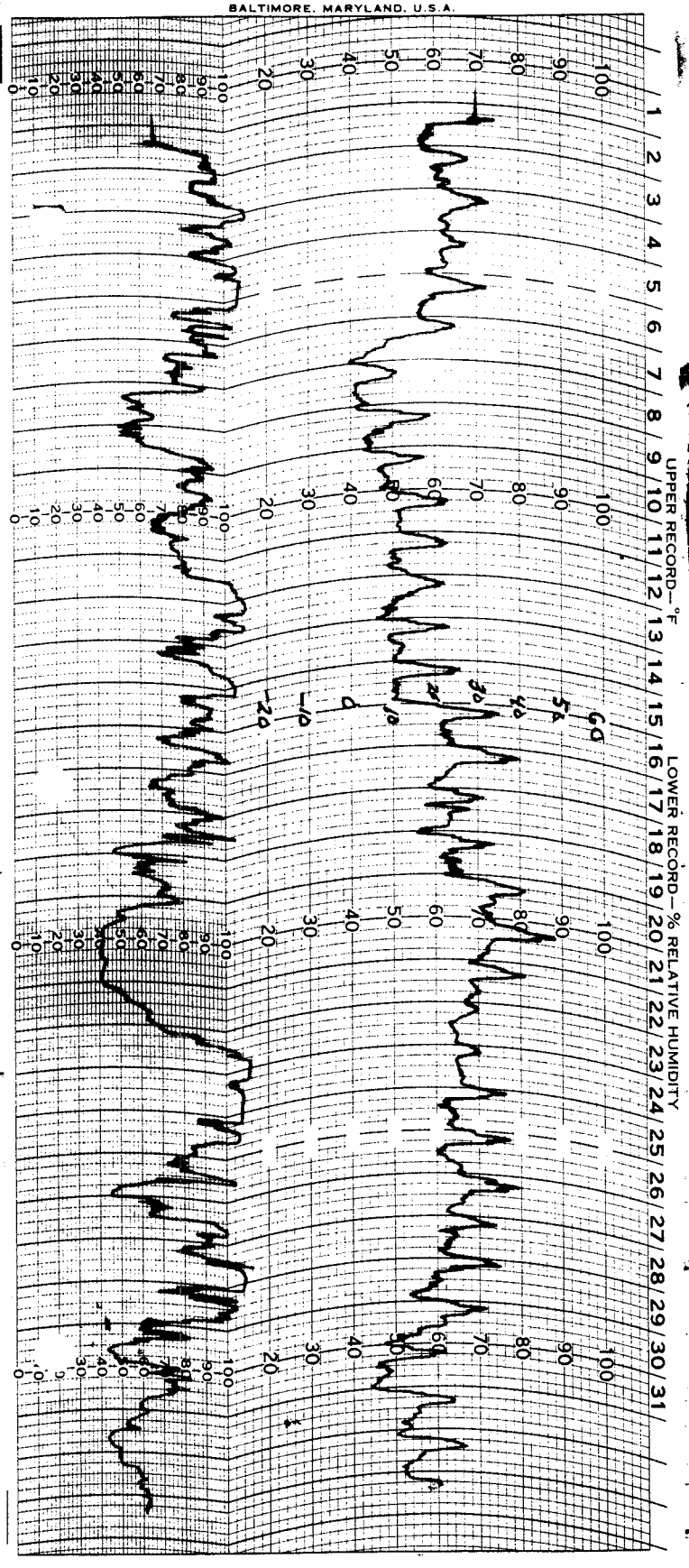
OFF 1102 A.M. P.M. 1-3 19 95

CHART NO. 15627

MONTHLY-861 HRS.

BELFORT INSTRUMENT COMPANY

BALTIMORE, MARYLAND, U.S.A.

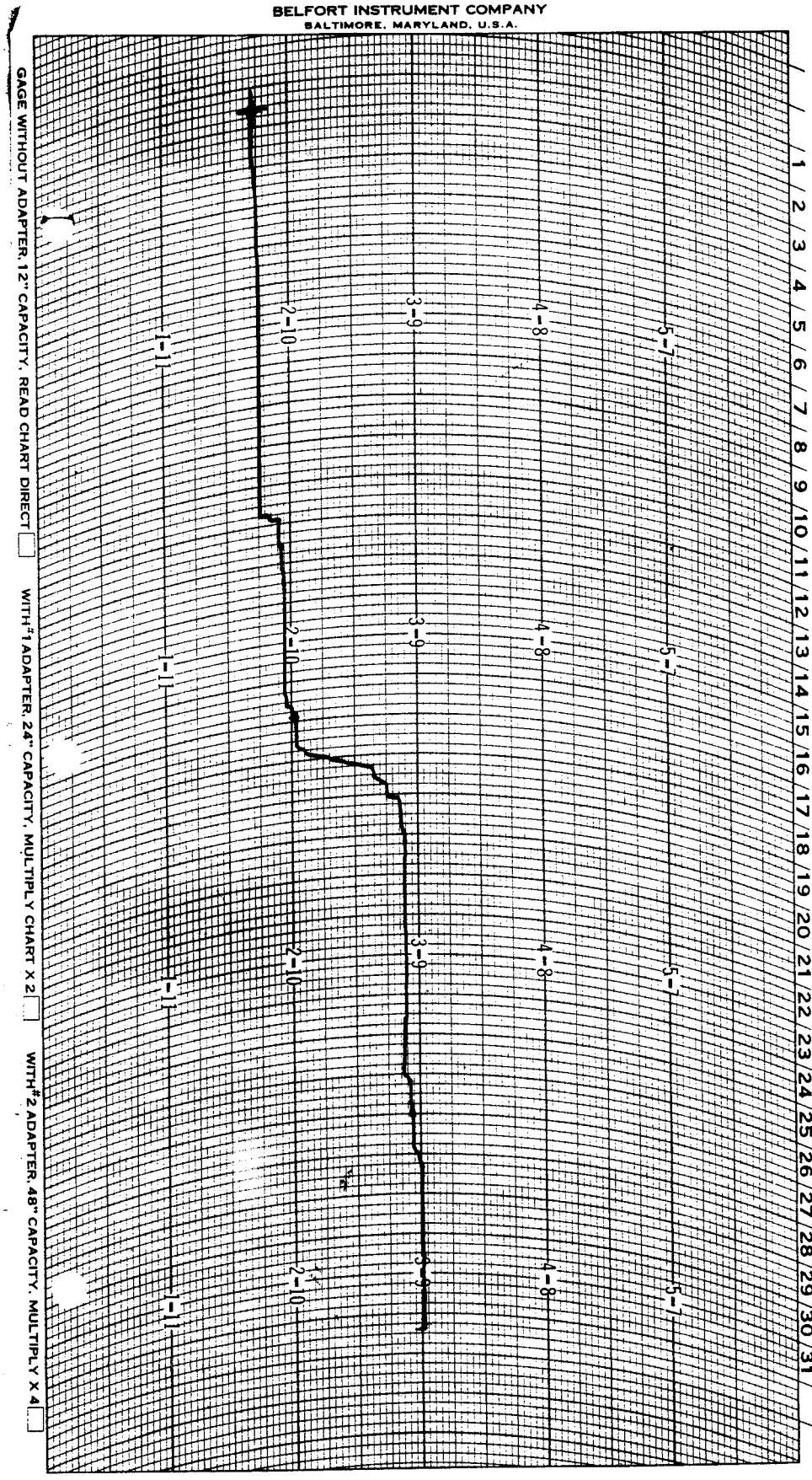


OBSERVER Karl R. Houskeeper ON 1056 A.M. P.M. 12-2 19 94

STATION _____ OFF 1109 A.M. P.M. 1-3 19 95

12-INCH DUAL TRAVERSE MONTHLY-861 HRS.
UNIVERSAL RAIN GAGE

BELFORT INSTRUMENT COMPANY
BALTIMORE, MARYLAND, U.S.A.



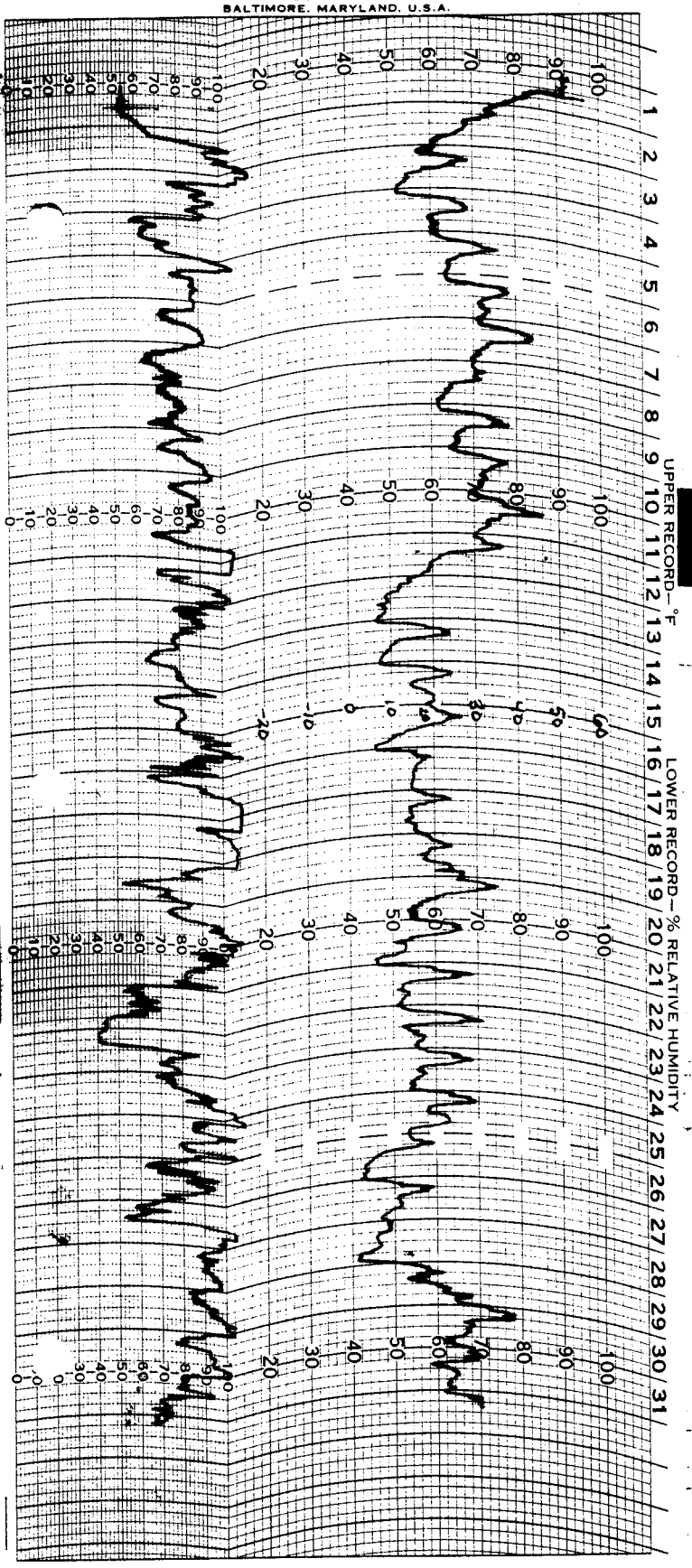
OBSERVER Karl R. Houstreeper

STATION

ON 1447 A.M. P.M. 11-1 19 94

OFF 1044 A.M. P.M. 12-2 19 94

CHART NO. 15627
MONTHLY-861 HRS.
BELFORT INSTRUMENT COMPANY
BALTIMORE, MARYLAND, U.S.A.



OBSERVER Karl R. Housekeeper ON 1433 A.M. P.M. 11-1 1994

STATION _____ OFF 1054 A.M. P.M. 12-2 1994

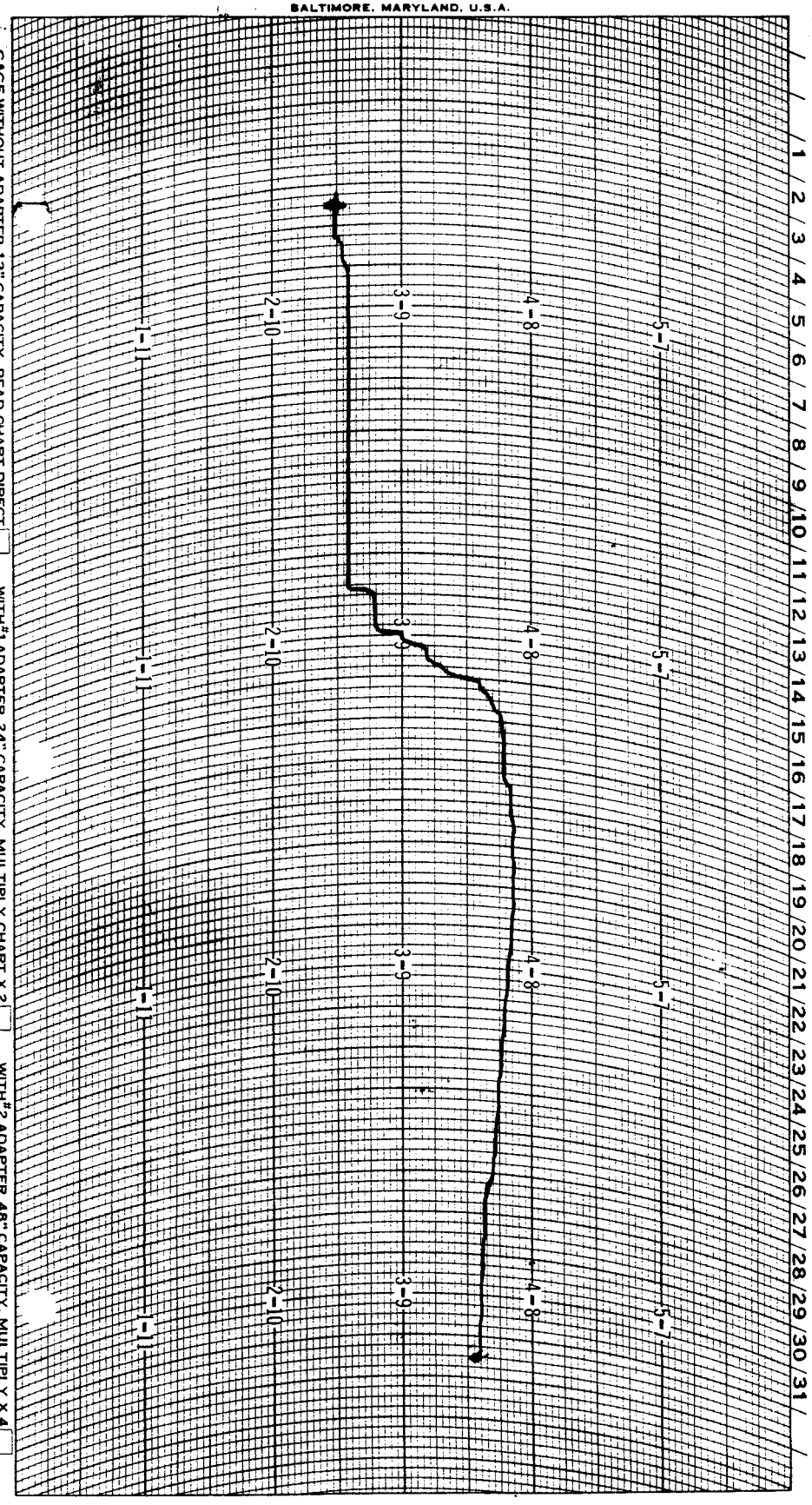
CHART NO. 15888

12-INCH DUAL TRAVERSE MONTHLY-861 HRS.

UNIVERSAL RAIN GAGE

BELFORT INSTRUMENT COMPANY

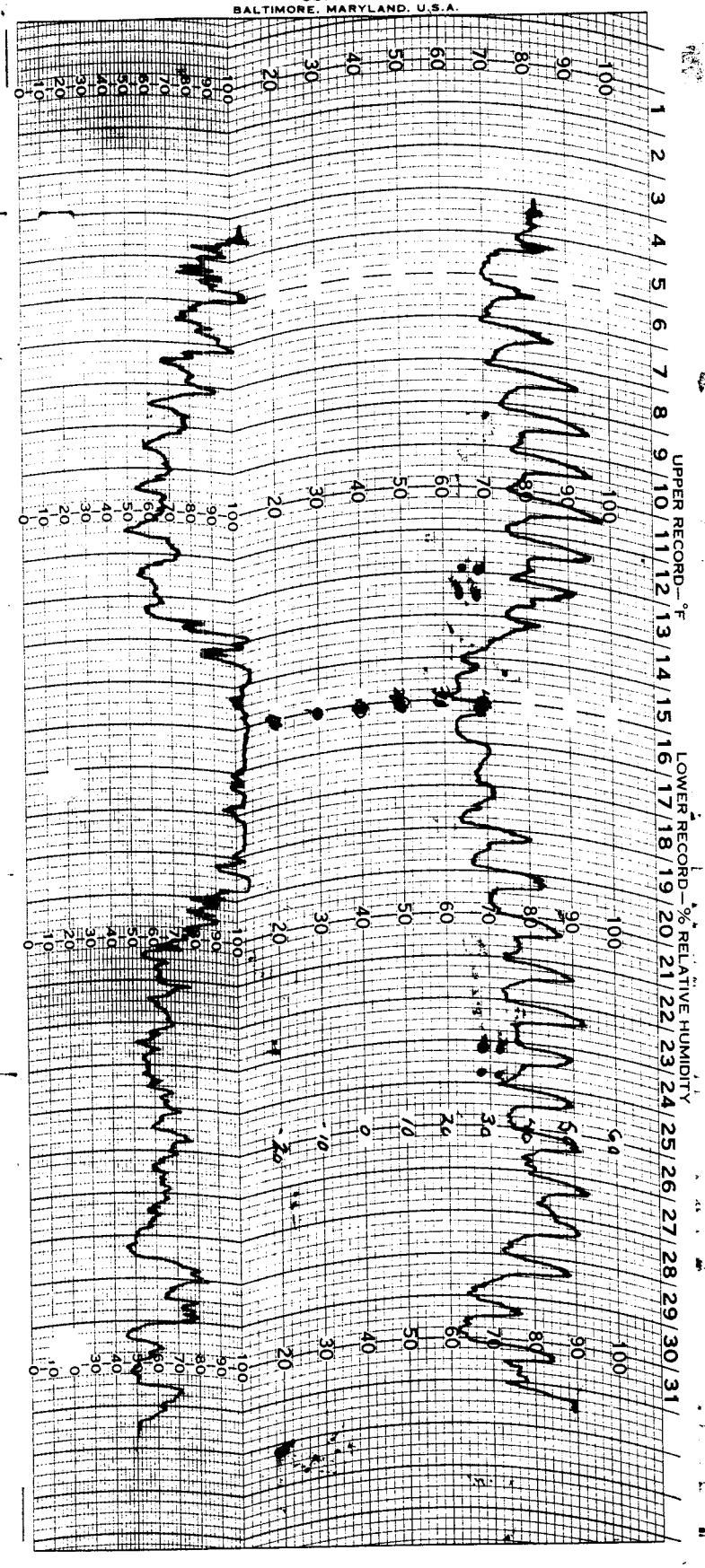
BALTIMORE, MARYLAND, U.S.A.



OBSERVER Karl R. Housteeper. ON 1356 A.M. P.M. 10-4 1994

STATION _____ OFF 1425 A.M. P.M. 11-1 1994

CHART NO. 15627
MONTHLY-861 HRS.
BELFORT INSTRUMENT COMPANY
BALTIMORE, MARYLAND, U.S.A.



OBSERVER Karl R. Houshagen ON 1412 A.M. P.M. 10-4 19 94

STATION _____ OFF 1431 A.M. P.M. 11-1 19 94

APPENDIX Q

PACIFICORP
ENERGY WEST
HYDROLOGIC MONITORING PROGRAM
DEER CREEK, WILBERG/COTTONWOOD, and DES-BEE-DOVE
TRAIL MOUNTAIN MINES

I. Monitoring Locations

A. Surface Water Hydrology (see Map HM-1 for East Mountain / Map 7-1 and 7-2 for Trail Mountain locations listed below)

1. Cottonwood Creek Drainage System

a. Cottonwood Canyon Creek

(1) SW-1 - Above Trail Mtn. Mine
(Approximately 5000 feet upstream from the inlet culvert for the disturbed area.) 2150 feet South, 2000 feet East of the Northwest corner of Section 24, Township 17 South, Range 6 East.

(2) SW-2 - Below Trail Mtn. Mine
(Approximately 200 feet downstream from the outlet culvert for the disturbed area.) 1300 feet South, 1750 feet West of the Northeast corner of Section 25, Township 17 South, Range 6 East.

(3) CCC01 - USGS Flume:
(Approximately 7800 feet downstream from the outlet culvert for the disturbed area.)1500 feet North, 200 feet East of the Southwest corner of Section 31, Township 17 South, Range 7 East.

(4) SW-3 - Below Trail Mtn. Mine
(Approximately 3800 feet above confluence with Straight Canyon) 2400 feet South, 2400 feet East of the Northeast corner of Section 6, Township 18 South, Range 6 East.

b. Unnamed Drainage off Straight Canyon

(1) T-19
(Approximately 200 feet upstream from the from confluence with Straight Canyon) 2500 feet South, 1100 feet East of the Northeast corner of Section 3, Township 18 South, Range 6 East

c. Grimes Wash

(1) GWR01 - Right Fork:
(Approximately 1500 feet upstream from the inlet culvert for the disturbed area.) 550 feet North, 1500 feet West of the Southwest corner of Section 22, Township 17 South, Range 7 East.

(2) GWR02 - Left Fork:
(Approximately 50 feet upstream from the inlet culvert for the disturbed area.) 200 feet South, 2350 feet East of the Northwest corner of Section 27, Township 17 South, Range 7 East.

(3) GWR03 - Below the mine:
(Approximately 500 feet downstream from the outlet culvert below the disturbed area.) 1770 feet South, 1820 feet West of the Northeast corner of Section 27, Township 17 South, Range 7 East.

2. Huntington Creek Drainage System

a. Huntington Creek

(1) HCC01 - Above Deer Creek Confluence:
1400 feet north, 2200 feet west of the southeast corner of Section 36, Township 16 South, Range 7 East.

(2) HCC02 - Below Deer Creek Confluence:
300 feet north, 300 feet west of the southwest corner of Section 31, Township 16 South, Range 8 East.

(3) HCC03 - Below Huntington Power Plant:
2500 feet north, 1500 feet east of the southeast corner of Section 6, Township 17 South, Range 8 East.

(4) HCC04 - @ Research Farm*
800 feet north, 200 feet east of the southwest corner of Section 5, Township 17 South, Range 8 East.

* Not listed on map due to scale.

b. Deer Creek

(1) DCR01 - Above the mine:
(Approximately 600 feet upstream from the mine facility.) 200 feet North, 800 feet West of the Southeast corner of Section 10, Township 17 South, Range 7 East.

(2) DCR04 - Near C1/C2 Belt Intersection:
(Approximately 5,000 feet downstream from the mine facility.) 300 feet North, 2000 feet East of the Southeast corner of Section 2, Township 17 South, Range 7 East.

(3) DCR06 - @ Huntington Creek Confluence:
(Approximately 15,000 feet downstream from the facility)
1400 feet north, 1100 feet east of the southeast corner of Section 36, Township 16 South, Range 7 East.

c. Meetinghouse Canyon - South Fork:
(Approximately 200 feet upstream from the north and south convergence.) 800 feet North, 1500 feet East of the Southwest corner of Section 35, Township 16 South, Range 7 East.

d. Rilda Canyon:

(1) RCF-1 - Rilda Canyon - Right Fork:
(Approximately 4000 feet upstream from the Right and Left fork convergence.) 400 feet South, 200 feet West of the Northeast corner of Section 30, Township 16 South, Range 7 East.

(2) RCLF1 - Rilda Canyon - Left Fork, below Rilda Canyon Portals: (Approximately 200 feet upstream from the Right and Left fork convergence.) 2400 feet North, 2100 feet West of the Southeast corner of Section 29, Township 16 South, Range 7 East.

(3) RCLF2 - Rilda Canyon - Left Fork, above Rilda Canyon Portals: (Approximately 1600 feet upstream from the Right and Left fork convergence.) 1600 feet North, 2300 feet West of the Southwest corner of Section 29, Township 16 South, Range 7 East.

(4) RCF2 - Rilda Canyon - Above NEWUA springs: 2500 feet South, 400 feet West of the Northeast corner of Section 29, Township 16 South, Range 7 East.

(5) RCF3 - Rilda Canyon - Below NEWUA springs: 2550 feet South, 1000 feet East of the Northeast corner of Section 28, Township 16 South, Range 7 East.

(6) RCW4 - Rilda Canyon: (Approximately 1000 feet upstream from the confluence with Huntington Creek.) 850 feet North, 1900 feet West of the Southeast corner of Section 26, Township 16 South, Range 7 East.

3. Reclamation Monitoring: Following stage 1 final reclamation backfilling and grading monitoring will be conducted at points immediately above and below the last sediment pond(s). Cottonwood Fan Portal: reclamation monitoring will occur at points above and below the two sediment basins (see Map 3-14).

B. Groundwater Hydrology

1. East Mountain Springs (see maps HM-4 and HM-5)
Burnt Tree *+
Elk Spring *+
Sheba Springs *+
Ted's Tub
79-2
79-10 *+
79-15
79-23 *+
79-24
79-26 *+
79-28 (Flag Lake)

79-29 *+
79-32
79-34
79-35 *+
79-38
79-40
80-41
80-43
80-44 *+
80-46 *+
80-47
80-48
82-51
82-52 *+
84-56 *+
89-60 (Alpine Spring)
89-61
89-65
89-66
89-67
89-68

* Recession Study Springs (Flow August & September)
+ Baseline analysis performed in 1991 and will be repeated every five years.

2. Trail Mountain Springs (see Trail Mountain Spring Map 7-1)
   T-6
   T-8
   T-9
   T-10
   T-14
   T-14A
   T-15
   T-16

3. Piezometric Data
   a. Surface
      (1) Rilda Canyon (see Map HM-1 for locations)
         P1
         P5
         P6
         P7
         EM-47
      (2) Cottonwood Canyon Creek
         EM-31
         CCCW-1A

CCCW-1S
CCCW-2A
CCCW-3A
CCCW-3S U
CCCW-3S L
TM-1B
TM-3

b. Underground: In-Mine
   (1) Deer Creek Mine (Refer to Annual Hydrologic Reports for Locations : HM-2)

4. In-Mine Water Quality
   a. Deer Creek Mine (Refer to Annual Hydrologic Reports for Locations : HM-2)
   b. Wilberg/Cottonwood Mines (Refer to Annual Hydrologic Reports for Locations : HM-3)
   c. Trail Mountain Mine (Refer to Annual Hydrologic Reports for Locations : HM-6)

5. Waste Rock Wells (see Map HM-1 for locations)
   a. Deer Creek
   b. Cottonwood

II. Monitoring Schedule

A. Field Measurements collected during quality sampling: Listed below are the sites which will be monitored by PacifiCorp - Energy West in accordance with the guidelines established by DOGM; i.e.,

- Date and Time
- Flow
- pH
- Temperature
- Conductivity
- Dissolved oxygen (perennial streams only)

1. Cottonwood Canyon Creek
   a. (1) SW-1
      (2) SW-2
      (3) Cottonwood Canyon Creek - USGS Flume
      (4) SW-3
   b. Grimes Wash
      (1) GWR01
      (2) GWR02
      (3) GWR03
   c. Straight Canyon
      (1) T-18 (Oliphant Mine Discharge)
      (2) T-19 (Unnamed Side Drainage)

2. Huntington Canyon Drainage
   a. Deer Creek

(1) DCR01
(2) DCR04
(3) DCR06

b. Huntington Creek
(1) HCC01
(2) HCC02
(3) HCC04

c. Meetinghouse Canyon - South Fork

d. Rilda Canyon
(1) RCF1
(2) RCLF 1
(3) RCLF 2
(4) RCF2
(5) RCF3
(6) RCW4

3. East Mountain Springs (see monitoring location list)
4. Trail Mountain Springs (see monitoring location list)
5. In-Mine
   a. Deer Creek
   b. Wilberg/Cottonwood
   c. Trail Mountain
6. Waste Rock Wells
   a. Deer Creek
   b. Cottonwood

All sites will be monitored quarterly except for East/Trail Mountain Springs. East/Trail Mountain Springs will be field tested during the months of July and October. In addition, the East Mountain Recession Study Springs (denoted by asterisks in the Monitoring Location section) and Trail Mountain Springs will be field tested for flow from July through October. In-mine locations will be field tested quarterly for all field parameters except pH, conductivity, and dissolved oxygen. Flow in Huntington Creek is measured only at HCC01 by Utah Power & Light, and will be reported in the Annual Hydrologic Report.

B. Quality Sampling (Laboratory Measurements)

1. Surface Water Hydrology: Water samples will be collected and analyzed quarterly (one sample at low flow and high flow) during the first or second week of the quarter. Parameters analyzed are those listed in the DOGM Guidelines for Surface Water Quality (see Table #1). Quarterly sampling was initiated during March 1988 and will continue throughout the year; i.e., June, September, and December. Baseline analysis was performed in 1991 and will be repeated every five years thereafter.
   a. Cottonwood Creek Drainage
      (1)Cottonwood Canyon Creek
         (a) SW-1
         (b) SW-2
         (c) SW-3
      (2)Grimes Wash
         (a)GWR01
         (b)GWR02
         (c)GWR03
      (3) Straight Canyon
         (a) T-18
         (b) T-19
   b. Huntington Creek Drainage
      (1) Deer Creek
         (a) DCR01
         (b) DCR04
         (c) DCR06
      (2) Huntington Creek
         (a) HCC01
         (b) HCC02
         (c) HCC04
      (3) Meetinghouse Canyon - South Fork: MCH01
      (4) Rilda Canyon
         (a) RCF1
         (b) RCF3
         (c) RCW4

2. Groundwater Hydrology
   a. East/Trail Mountain Springs: Water samples will be collected and analyzed during the months of July and October. Parameters analyzed are those listed in the DOGM Guidelines for Groundwater Water Quality (see Table #2).

b. In-Mine: Two water samples will be collected and analyzed per mine quarterly. Parameters analyzed are those listed in the DOGM Guidelines for Groundwater Water Quality (see Table #2).

c. Waste Rock Wells: One water sample will be collected and analyzed per location quarterly. Parameters analyzed are those listed in the DOGM Guidelines for Groundwater Water Quality (see Table #2).

III. Annual Reports

All data collected regarding the hydrology of East/Trail Mountain will be summarized by the applicant in an annual Hydrologic Monitoring Report. Copies of the report will be submitted to the OSM; U.S. Forest Service; and the Utah State Division of Oil, Gas and Mining. In addition, any raw data collected will be submitted to the Utah State Division of Oil, Gas and Mining on a quarterly basis.

PACIFICORP
TRAIL MOUNTAIN MINE

WATER MONITORING PROGRAM

STATION	LOCATION	TYPE	FREQUENCY	STATUS	RESULTS TO:	REMARKS
SW-1	Cottonwood Cyn Above Mine	Intermittent Stream	Monthly-Flow Quarterly-Quality	Operational	DOGM	Oil & Grease Quarterly
SW-2	Cottonwood Cyn Below Mine	Intermittent Stream	Monthly-Flow Quarterly-Quality	Operational	DOGM	Oil & Grease Quarterly
SW-3	Cottonwood Cyn Below Mine	Intermittent Stream	Monthly-Flow Quarterly-Quality	Operational	DOGM	Oil & Grease Quarterly
TM-21	Trail Mountain Section 21	Spring	Quality July/Oct Field July-Oct	Operational	DOGM	Inaccessible During Winter
TM-22	Trail Mountain Section 22	Spring	Quality July/Oct Field July-Oct	Operational	DOGM	Inaccessible During Winter
TM-23	Cottonwood Cyn Above Roan Cyn	Spring	Quality July/Oct Field July-Oct	Operational	DOGM	Inaccessible During Winter
T-6	Trail Mountain Section 2	Spring	Quality July/Oct Field July-Oct	Operational	DOGM	Inaccessible During Winter
T-10	Trail Mountain Section 26	Spring	Quality July/Oct Field July-Oct	Operational	DOGM	Inaccessible During Winter
T-14	Trail Mountain Section 25	Spring	Quality July/Oct Field July-Oct	Operational	DOGM	Inaccessible During Winter

Revised 7/8/94

PACIFICORP
TRAIL MOUNTAIN MINE

WATER MONITORING PROGRAM

STATION	LOCATION	TYPE	FREQUENCY	STATUS	RESULTS TO:	REMARKS
T-14A	Trail Mountain Section 26	Spring	Quality July/Oct Field July-Oct	Operational	DOGM	Inaccessible During Winter
T-15	Trail Mountain Section 35	Spring	Quality July/Oct Field July-Oct	Operational	DOGM	Inaccessible During Winter
T-16	Trail Mountain Section 35	Spring	Quality July/Oct Field July-Oct	Operational	DOGM	Inaccessible During Winter
TM-1B	Mine Surface Near Bathhouse	Well	Quarterly	Operational	DOGM	
TM-3	Straight Canyon	Well	Monthly	Water Level		
T-18	Straight Canyon Oliphant Mine	Mine Discharge	Quarterly	Operational		
T-19	Straight Canyon Aquifer Section 3	Spring/Surface	Quarterly	Operational		
UG-2	Underground	Ground Water	Quarterly	Operational		
UG-3	Underground	Ground Water	Quarterly	Operational		
26-1P	Trail Mountain Section 26	Pond	Annual Inspection July/Oct	N/A		
26-2P	Trail Mountain Section 26	Pond	Annual Inspection July/Oct	N/A		

Revised 7/8/94

PACIFICORP
TRAIL MOUNTAIN MINE

WATER MONITORING PROGRAM

STATION	LOCATION	TYPE	FREQUENCY	STATUS	RESULTS TO:	REMARKS
26-3P	Trail Mountain Section 26	Pond	Annual Inspection July/Oct	N/A		
26-4P	Trail Mountain Section 26	Pond	Annual Inspection July/Oct	N/A		
35-1P	Trail Mountain Section 35	Pond	Annual Inspection July/Oct	N/A		
35-2P	Trail Mountain Section 35	Pond	Annual Inspection July/Oct	N/A		

Revised 7/8/94

PACIFICORP
ENERGY WEST MINING COMPANY
HYDROLOGIC MONITORING PROGRAM
DEER CREEK/COTTONWOOD-WILBERG/DES-BEE-DOVE\TRAIL MOUNTAIN MINES

SURFACE HYDROLOGY - OPERATIONAL SAMPLING (Table 1)

Drainage System	Drainage	Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cottonwood Creek Drainage System	*Cottonwood Canyon Creek*	SW1	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		SW2	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		CCC01	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
		SW3	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
	Grimes Wash	GWR01	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		GWR02	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		GWR03	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
	Straight Canyon	T-19	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
Huntington Drainage System	*Deer Creek*	DCR01	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		DCR04	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		DCR06	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
	Huntington Creek	HCC01	Flow *	Flow *	Operational	Flow *	Flow *	Operational	Flow *	Flow *	Operational	Flow *	Flow *	Operational
		HCC02			Operational			Operational			Operational			Operational
		HCC04			Operational			Operational			Operational			Operational
		* Flow in Huntington Creek is measured @ HCC01 by Utah Power, and will be reported in the Annual Hydrologic Report												
	Meetinghouse Canyon	MCH01	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
	Rilda Canyon	RCF1	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		RCLF1	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
		RCLF2	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
		RCF2	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		RCF3	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		RCW4	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational

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HYDROLOGIC MONITORING PROGRAM
DEER CREEK/COTTONWOOD-WILBERG/DES-BEE-DOVE\TRAIL MOUNTAIN MINES

GROUNDWATER HYDROLOGY - OPERATIONAL SAMPLING (Table 2)

Groundwater Type		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Springs	*East Mountain*							Operational	Flow *	Flow *	Operational		
									* Recession Springs				
	Trail Mountain							Operational	Flow	Flow	Operational		
In-Mine	*Cottonwood*			Operational			Operational			Operational			Operational
	Deer Creek			Operational			Operational			Operational			Operational
	Trail Mountain			Operational			Operational			Operational			Operational
Waste Rock Wells	*Cottonwood*			Operational			Operational			Operational			Operational
	Deer Creek			Operational			Operational			Operational			Operational

UPDES SAMPLING - (Table 1)

			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mine Water Discharge	*Cottonwood*	WMD01	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
		Miller	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Deer Creek	DCD	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Trail Mountain	TMD	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
Sediment Pond Discharge	*Cottonwood*	3 Outfalls	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Deer Creek	1 Outfall	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Des-Bee-Dove	1 Outfall	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Trail Mtn	1 Outfall	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational

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HYDROLOGIC MONITORING PROGRAM
DEER CREEK/COTTONWOOD-WILBERG/DES-BEE-DOVE\TRAIL MOUNTAIN MINES

SURFACE HYDROLOGY - BASELINE SAMPLING (Table 1) - 1996

Drainage System	Drainage	Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cottonwood Creek Drainage System	*Cottonwood Canyon Creek*	SW1	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		SW2	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		CCC01	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
		SW3	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
	Grimes Wash	GWR01	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		GWR02	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		GWR03	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
	Straight Canyon	T-19	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
Huntington Drainage System	*Deer Creek*	DCR01	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		DCR04	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		DCR06	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
	Huntington Creek	HCC01	Flow *	Flow *	Baseline	Flow *	Flow *	Baseline	Flow *	Flow *	Baseline	Flow *	Flow *	Baseline
		HCC02			Baseline			Baseline			Baseline			Baseline
		HCC04			Baseline			Baseline			Baseline			Baseline
		* Flow in Huntington Creek is measured @ HCC01 by Utah Power, and will be reported in the Annual Hydrologic Report												
	Meetinghouse Canyon	MCH01	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
	Rilda Canyon	RCF1	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		RCLF1	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
		RCLF2	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
		RCF2	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		RCF3	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		RCW4	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline

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HYDROLOGIC MONITORING PROGRAM
DEER CREEK/COTTONWOOD-WILBERG/DES-BEE-DOVE\TRAIL MOUNTAIN MINES

GROUNDWATER HYDROLOGY - BASELINE SAMPLING (Table 2)

Groundwater Type		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Springs	*East Mountain*							Baseline	Flow *	Flow *	Baseline		
									* Recession Springs				
	Trail Mountain							Baseline	Flow	Flow	Baseline		
In-Mine	*Cottonwood*			Baseline			Baseline			Baseline			Baseline
	Deer Creek			Baseline			Baseline			Baseline			Baseline
	Trail Mountain			Baseline			Baseline			Baseline			Baseline
Waste Rock Wells	*Cottonwood*			Baseline			Baseline			Baseline			Baseline
	Deer Creek			Baseline			Baseline			Baseline			Baseline

UPDES SAMPLING - (Table 1)

			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mine Water Discharge	*Cottonwood*	**WMD01**	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
		Miller	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Deer Creek	**DCD**	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Trail Mountain	**TMD**	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
Sediment Pond Discharge	*Cottonwood*	**3 Outfalls**	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Deer Creek	**1 Outfall**	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Des-Bee-Dove	**1 Outfall**	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Trail Mtn	**1 Outfall**	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational

WATER SAMPLE DOCUMENTATION

The following information will be included on the lab sheets:

1. Sample time and date
2. Individual taking sample
3. Field parameters (except in-mine)
   - Temperature
   - Flow
   - pH (units)
   - Conductivity (umhos/cm)
   - Dissolved Oxygen (PPM), depending on location
4. Precipitation date if applicable
5. Date and time each parameter is analyzed at the lab

ANALYTICAL METHOD AND DETECTION LIMIT

Parameter	MDL	UNITS	Method
Acidity	10	mg/l $CaCO_3$	SM2310-B(4a)
Alkalinity, Bicarbonate	5	mg/l HCO_3^-	EPA 310.1
Alkalinity, Carbonate	5	mg/l CO_3^{-2}	EPA 310.1
Alkalinity, Total	5	mg/l $CaCO_3$	EPA 310.1
Aluminum	1	mg/l	EPA 202.1
Anions	----	meq/l	----------
Arsenic	.01	mg/l	EPA 206.2
Barium	.05	mg/l	EPA 208.1
Boron	.1	mg/l	EPA 212.3
Cadmium	.01	mg/l	EPA 213.1
Calcium	1	mg/l	EPA 215.1
Cations	----	meq/l	----------
Chloride	1	mg/l	SM4500 C1-B
Chromium	0.1	mg/l	EPA 218.1
Conductivity	1	umhos/cm	EPA 120.1
Copper	0.1	mg/l	EPA 220.1
Fluoride	0.1	mg/l	SM4500 F-C
Hardness, Total	10	mg/l $CaCO_3$	----------
Iron	0.1	mg/l	EPA 236.1
Iron, Dissolved	0.1	mg/l	EPA 236.1
Lead	0.1	mg/l	EPA 239.1
Magnesium	1	mg/l	EPA 242.1
Manganese	0.1	mg/l	EPA 243.1
Mercury	.001	mg/l	EPA 245.1
Nickel	0.1	mg/l	EPA 249.1
Nitrogen, Ammonia	0.5	mg/l	EPA 350.3
Nitrogen, Nitrate	0.1	mg/l	EPA 353.3
Nitrogen, Nitrite	0.01	mg/l	EPA 354.1
Oil & Grease	5	mg/l	EPA 413.1
Oxygen, Dissolved	0.1	mg/l	EPA 360.1
pH	----	Units	EPA 150.1
Phosphorus, Total	.05	mg/l	SM4500 P-B,E
Potassium	1	mg/l	EPA 258.1
Selenium	.01	mg/l	EPA 270.3
Sodium	1	mg/l	EPA 273.1
Solids, Settleable	.5	ml/l	EPA 160.5
Solids, Total Dissolved	10	mg/l	EPA 160.1
Solids, Total Suspended	10	mg/l	EPA 160.2
Sulfate	1	mg/l	EPA 375.4
Sulfide	1	mg/l	EPA 376.1
Turbidity	.1	NTU	EPA 180.1
Zinc	.01	mg/l	EPA 289.1

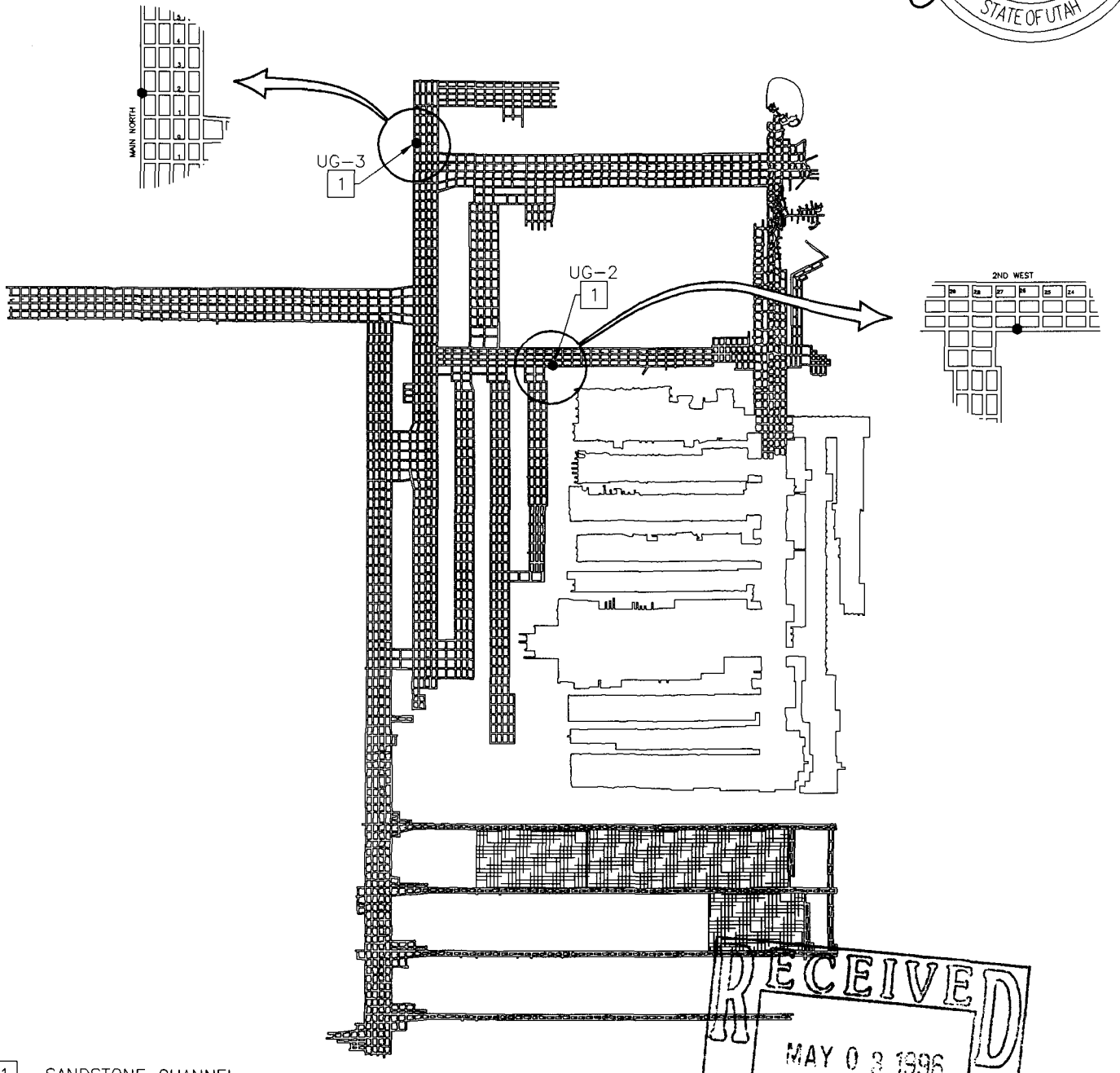
LEGEND

1 LOCATION NUMBER

⬢ LONG TERM MONITORING LOCATION

[1] WATER SOURCE TYPE (SEE FIGURE 8, 1992 HYDROLOGIC MONITORING REPORT

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
5/1/96
No. 165651
STATE OF UTAH



[1] SANDSTONE CHANNEL

[2] FAULT

[3] JOINTS AND FRACTURES

[4a] ROOF BOLT HOLE

[4b] EXPLORATION BORE HOLE

LOCATION #	LOCATION DESCRIPTION	TYPE
UG-3	MAIN NORTH X-CUT 2	SANDSTONE CHANNEL
UG-2	2ND WEST X-CUT 26	ROOF BOLT HOLE

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HM-6

CAD FILE NAME/DISK#: HM-6

ENERGY WEST
MINING COMPANY
HUNTINGTON, UTAH 84528

TRAIL MOUNTAIN COAL MINE
IN-MINE WATER
MONITORING LOCATIONS

DRAWN BY: K. LARSEN	TMU1590A	
SCALE: 1" = 2000'	DRAWING #:	
DATE: APRIL 29, 1996	SHEET 1 OF 1	REV. ---

LEGEND

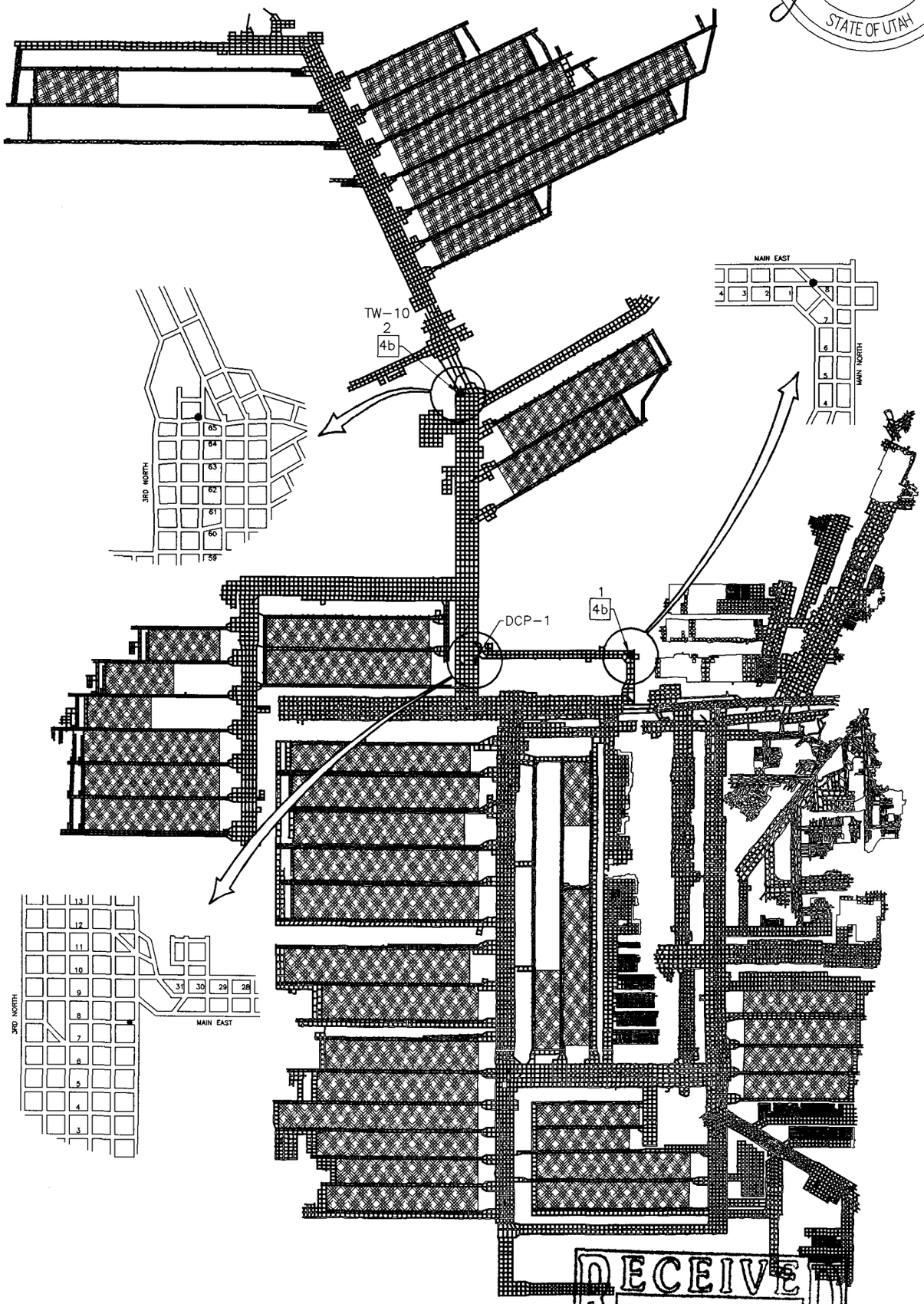
1 LOCATION NUMBER

⬢ LONG TERM MONITORING LOCATION

● PIEZOMETRIC MONITORING WELL

[1] WATER SOURCE TYPE (SEE FIGURE 8, 1992 HYDROLOGIC MONITORING REPORT

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
5/1/96
No. 165651
STATE OF UTAH



[1] SANDSTONE CHANNEL

[2] FAULT

[3] JOINTS AND FRACTURES

[4a] ROOF BOLT HOLE

[4b] EXPLORATION BORE HOLE

LOCATION #	LOCATION DESCRIPTION	TYPE
1	MAIN NORTH – MAIN EAST	IN-MINE DRILL HOLE
2	3RD NORTH X-CUT 65 (TW-10)	HORIZONTAL DRILL HOLE
DCP-1	THIRD NORTH X-CUT 8	HYDROLOGIC MONITORING WELL

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HM-2

ENERGY WEST
MINING COMPANY
HUNTINGTON, UTAH 84528

DEER CREEK MINE
IN-MINE WATER MONITORING LOCATIONS

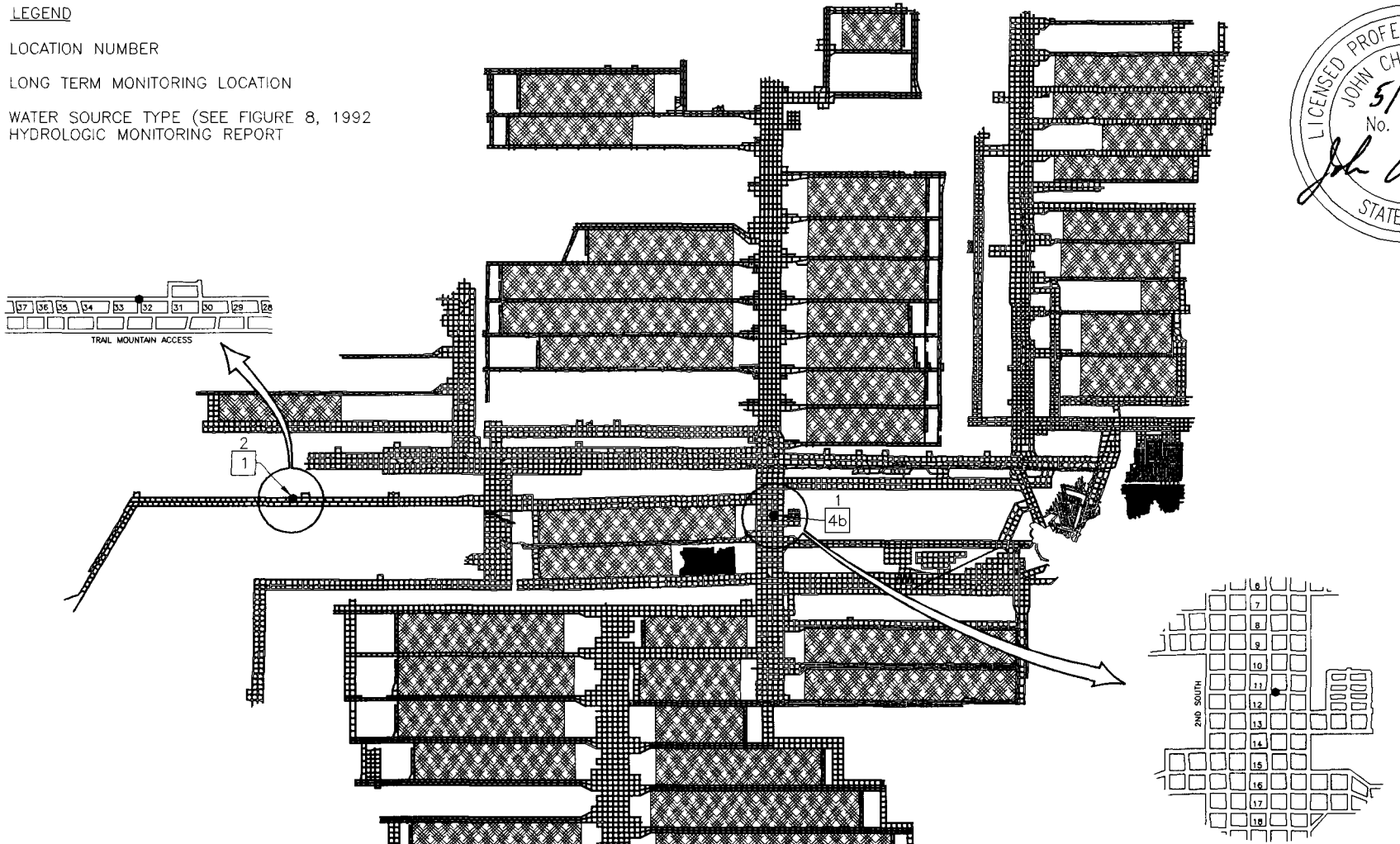
DRAWN BY: K. LARSEN	CE-10533-DR	
SCALE: 1"=4000'	DRAWING #:	
DATE: APRIL 29, 1996	SHEET 1 OF 1	REV. ___

LEGEND

1 LOCATION NUMBER

⬢ LONG TERM MONITORING LOCATION

[1] WATER SOURCE TYPE (SEE FIGURE 8, 1992 HYDROLOGIC MONITORING REPORT



LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
5/1/96
No. 165651
STATE OF UTAH

[1] SANDSTONE CHANNEL

[2] FAULT

[3] JOINTS AND FRACTURES

[4a] ROOF BOLT HOLE

[4b] EXPLORATION BORE HOLE

LOCATION #	LOCATION DESCRIPTION	TYPE
1	2ND SOUTH X-CUT 11	IN-MINE DRILL HOLE
2	TRAIL MOUNTAIN ACCESS X-CUT 32	SANDSTONE CHANNEL

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CAD FILE NAME/DISK#: HM-3

HM-3

ENERGY WEST
MINING COMPANY
HUNTINGTON, UTAH 84528

COTTONWOOD MINE
IN-MINE WATER MONITORING LOCATIONS

DRAWN BY:	K. LARSEN	CE-10532-WB	
SCALE:	1"=3000'	DRAWING #:	
DATE:	APRIL 29, 1996	SHEET 1 OF 1	REV. ___