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40-4492

AMERICAN NUCLEAR CORPORATION

JOHN C. FERGUSON, PRESIDENT
TELEPHONE (303) 265-7912

January 23, 1991

550 NORTH POPLAR, SUITE 6
P.O. BOX 2713
DENVER, WYOMING 82602

RETURN ORIGINAL TO PDR, HQ.

Ramon Hall, Director
U.S. Nuclear Regulatory Commission
Uranium Recovery Field Office
Region IV
P.O. Box 25325
Denver, CO 80228

DOCKETED
JAN 31 1991
USNRC
MAIL SECTION
DOCKET CLERK

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RIV DRMA
RECEIVED

Re: SUA-667
Docket 40-4492

Dear Mr. Hall:

Please reference your letter dated August 15, 1990 regarding your review of settlement data on Tailings Pond No. 2. Enclosed are survey data and settlement curves current to January, 1991. Please advise as to the NRC's determination relative to 90% settlement of the tailings material.

If the NRC's determination that sufficient settlement has not occurred over the entire pond, ANC will have to modify its 1991 reclamation construction plans. Therefore, a determination at your earliest convenience would be appreciated.

Sincerely,

JCF
John C. Ferguson
President

JCF/mk

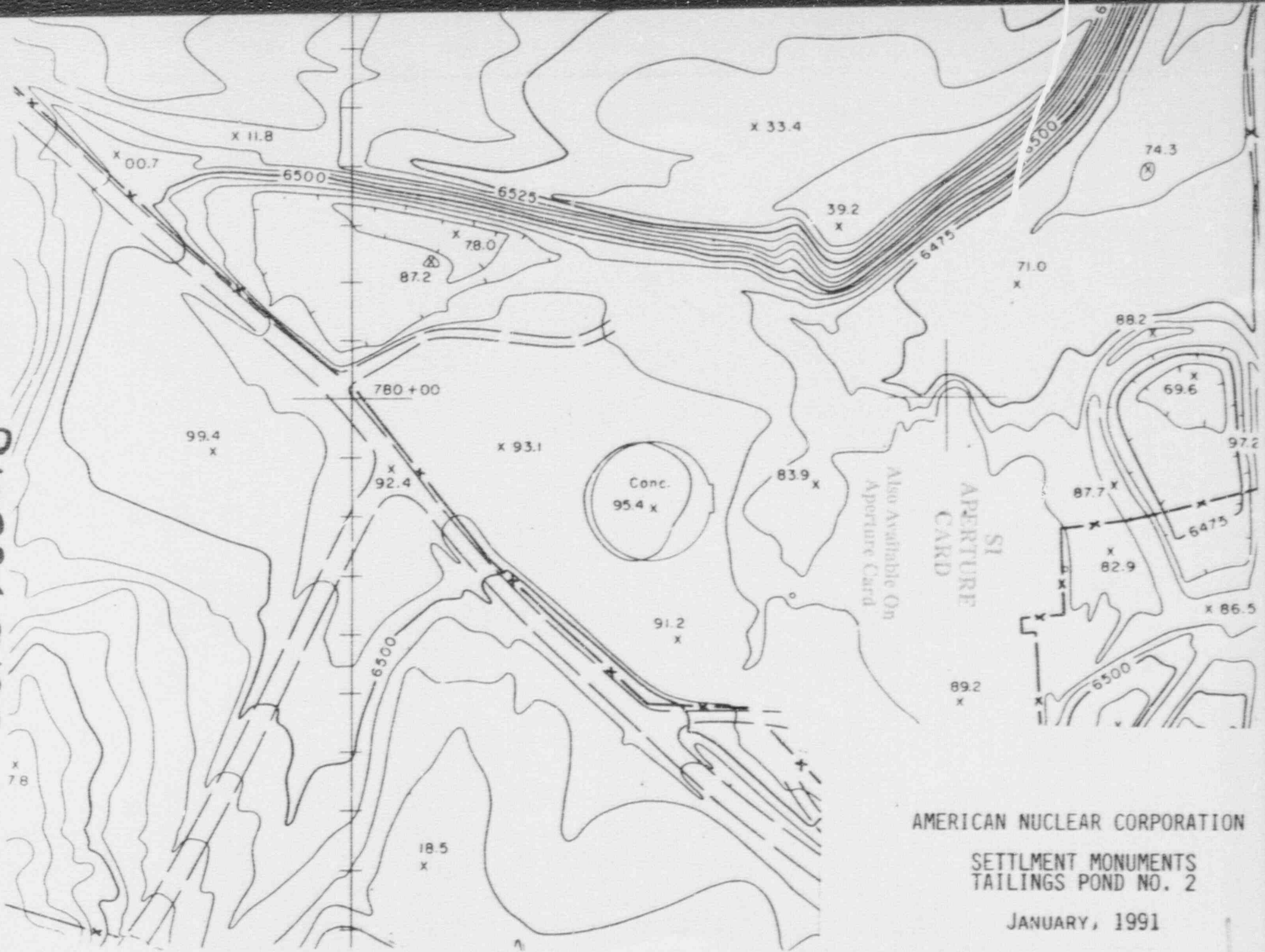
DESIGNATED ORIGINAL

Certified By *Mary C. Hood*

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JCF
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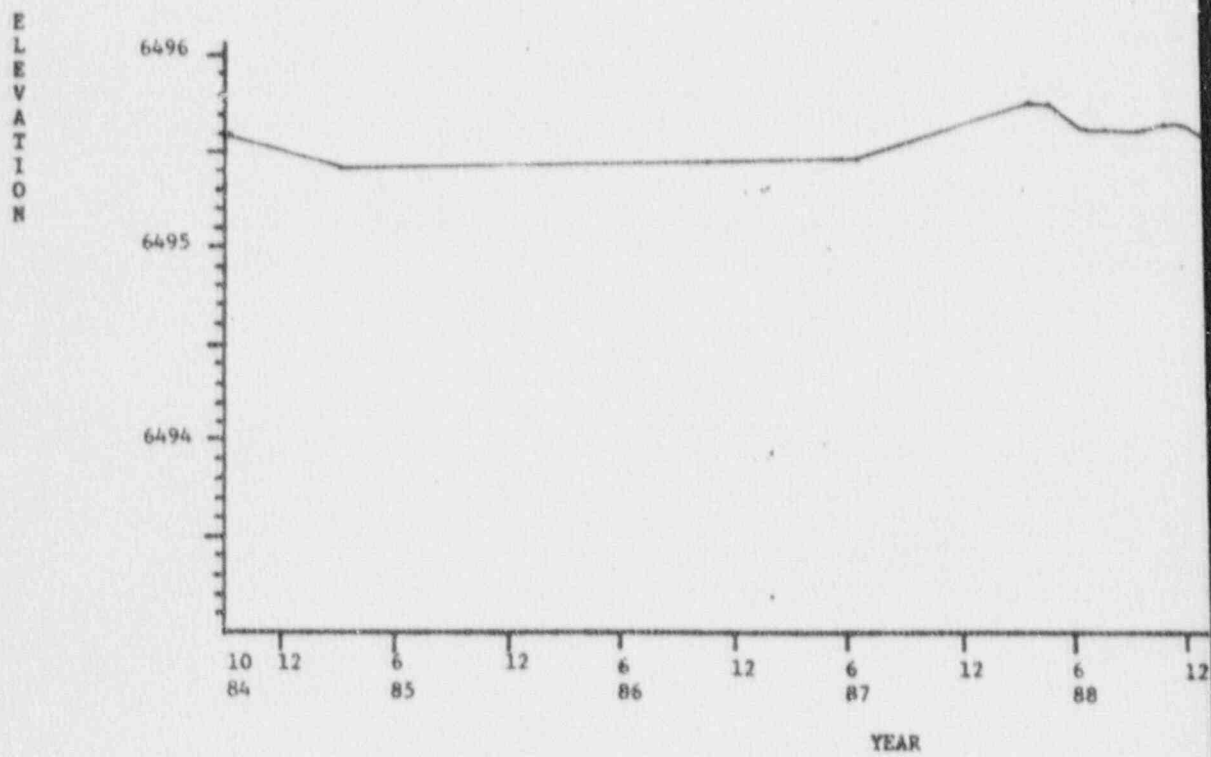
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AMERICAN NUCLEAR CORPORATION

SETTLEMENT MONUMENTS
TAILINGS POND NO. 2

JANUARY, 1991

TAILINGS POND NO
SETTLEMENT MONUM
SETTLEMENT MONUMENT



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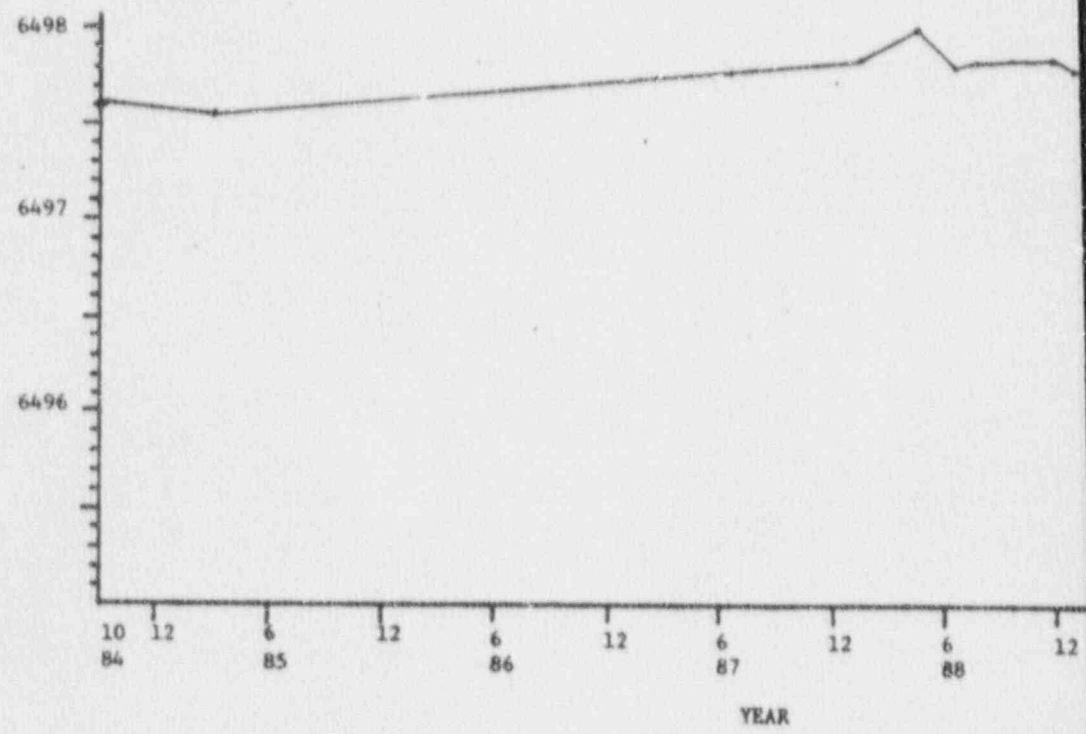
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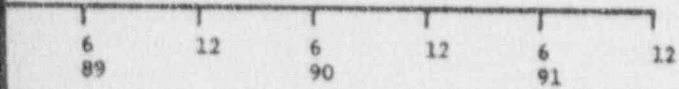
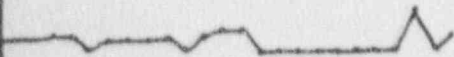
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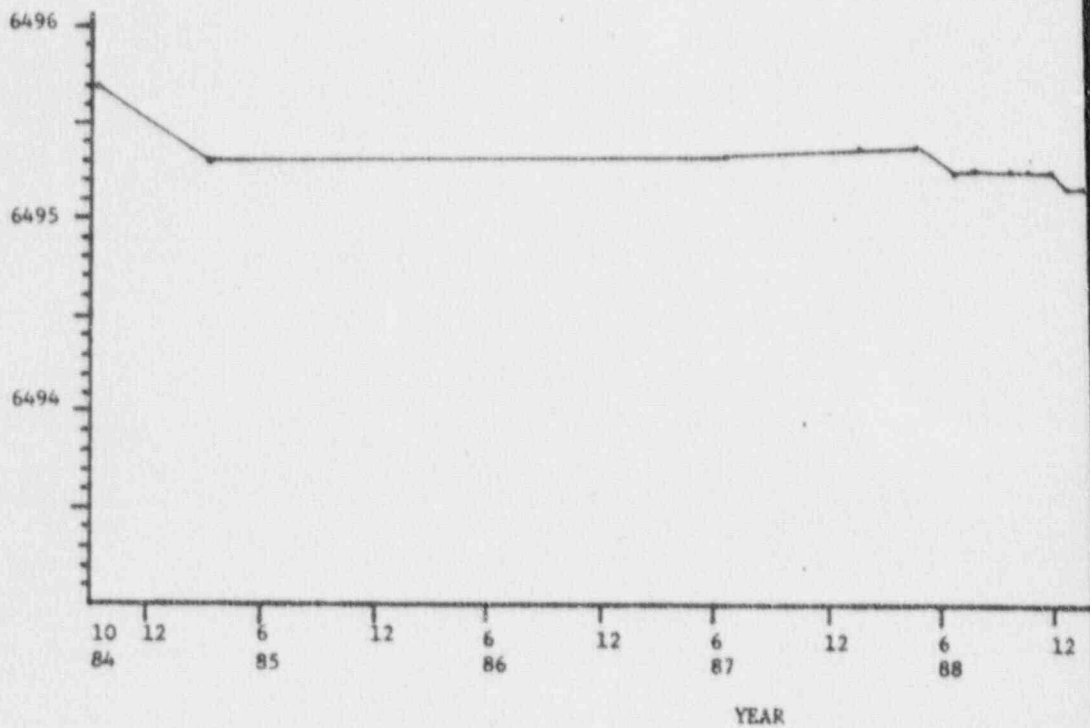
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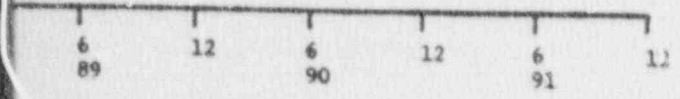


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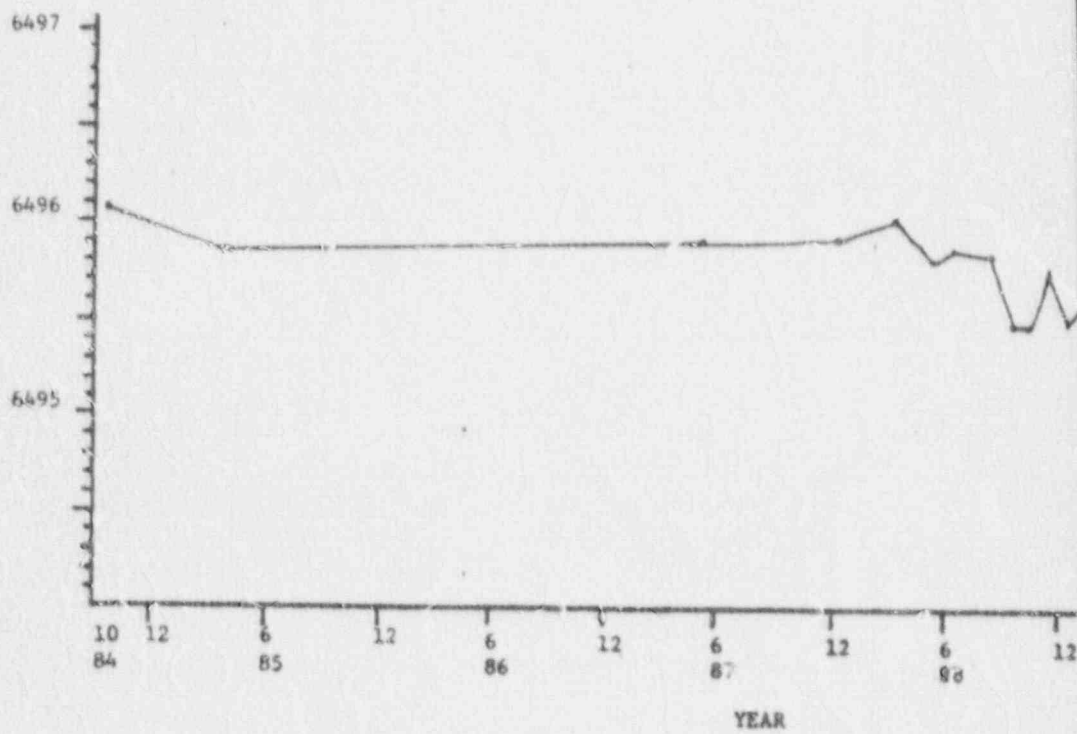
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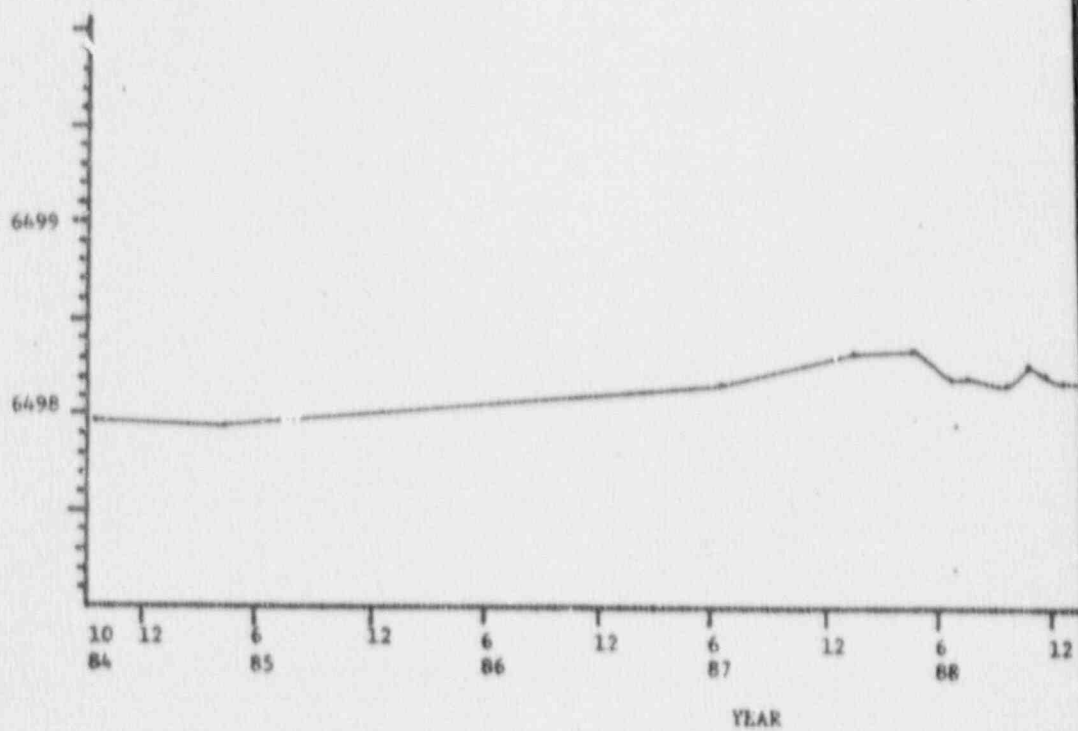
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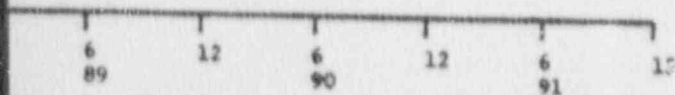
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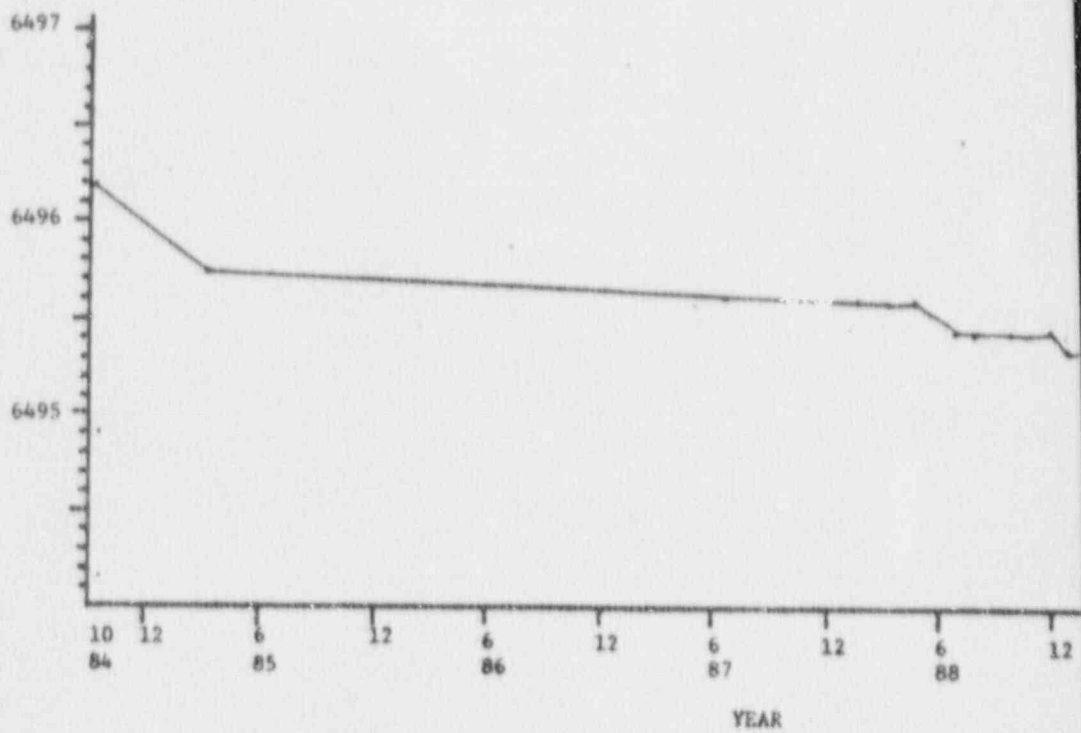
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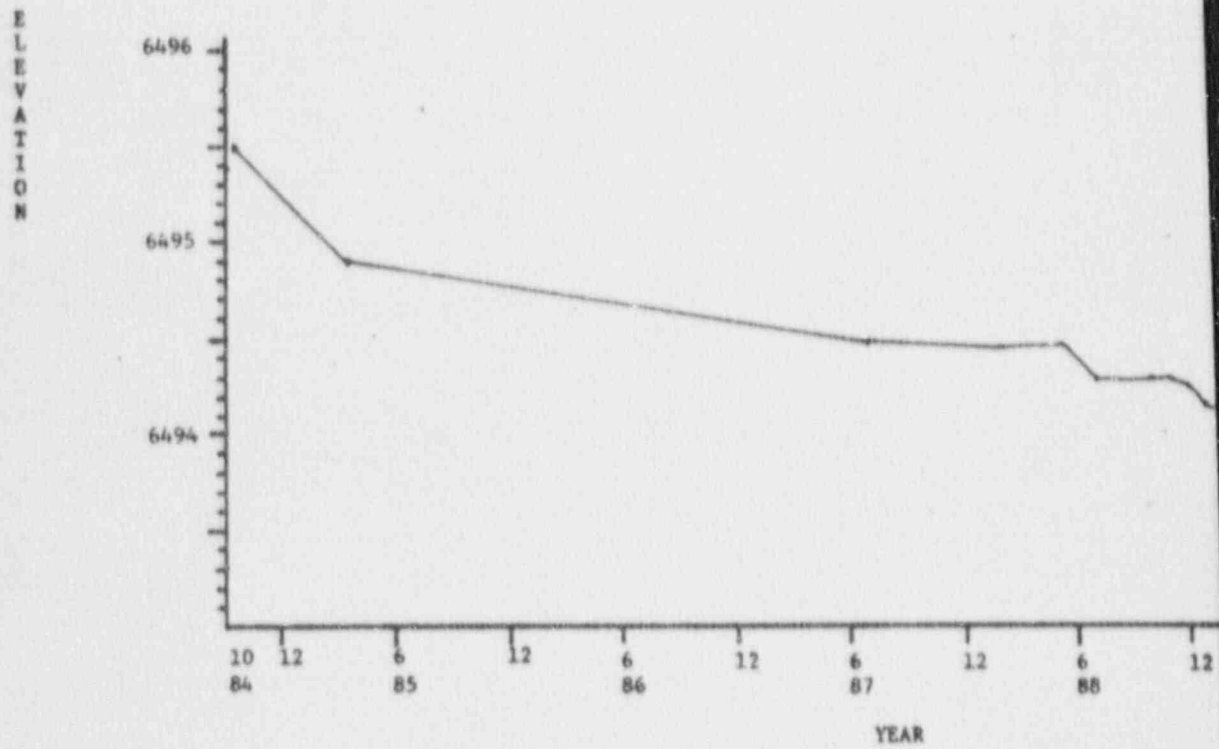
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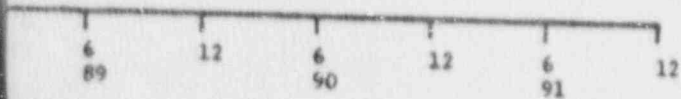
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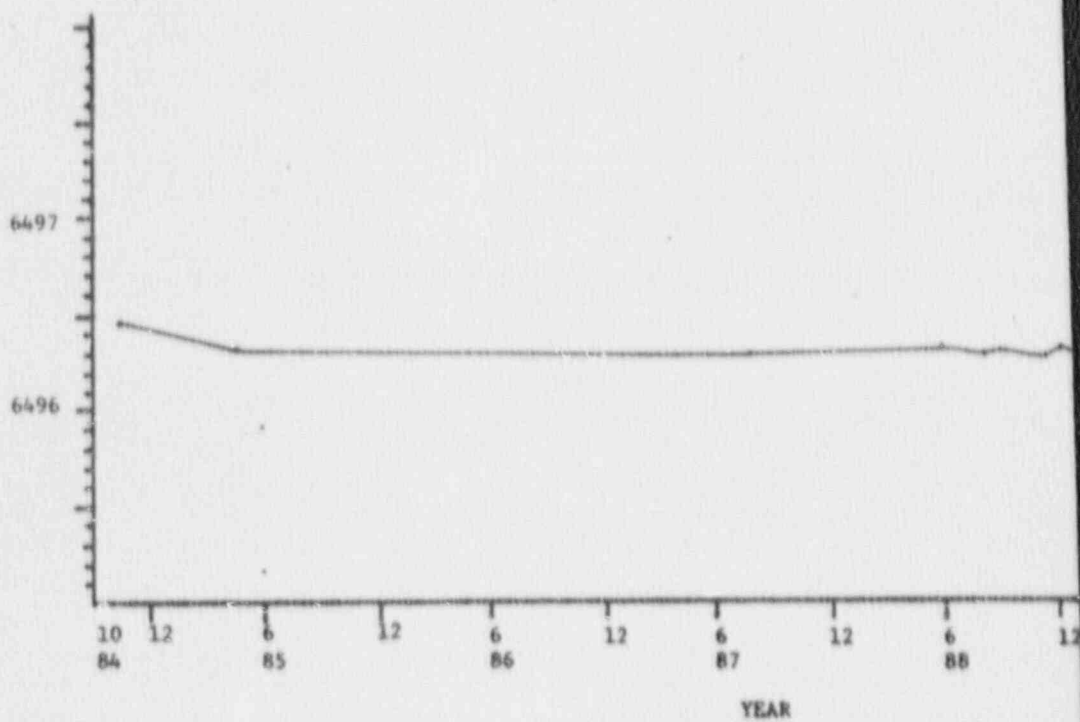
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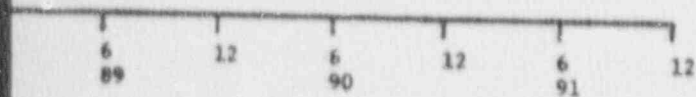
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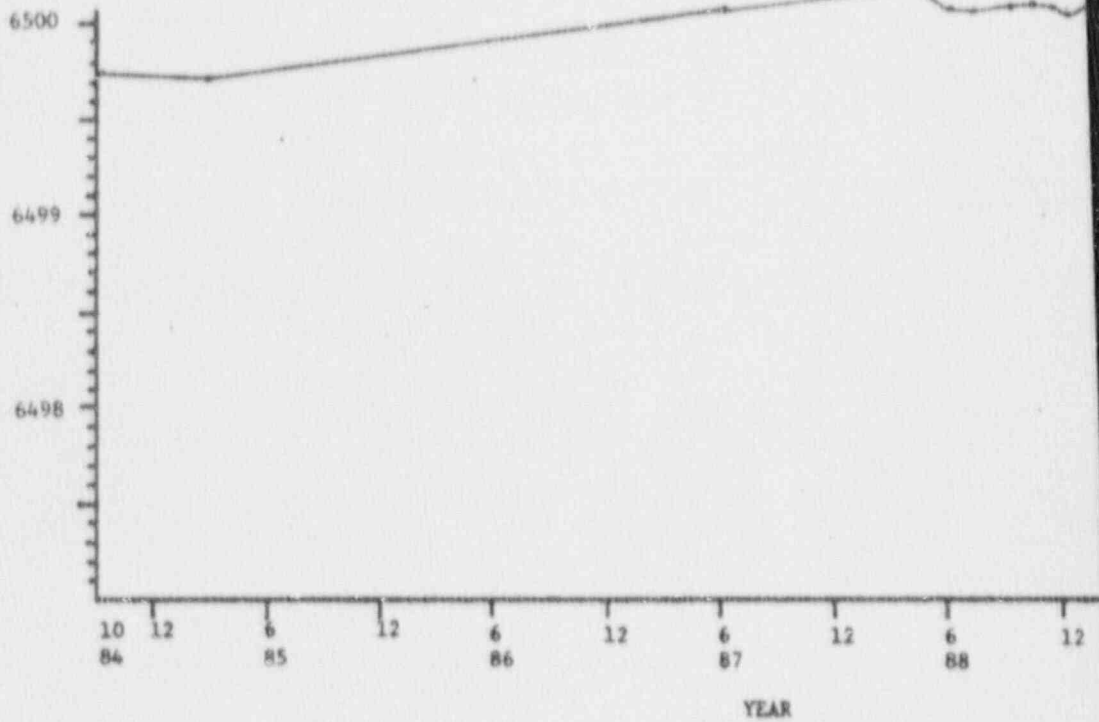
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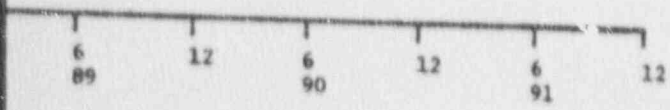
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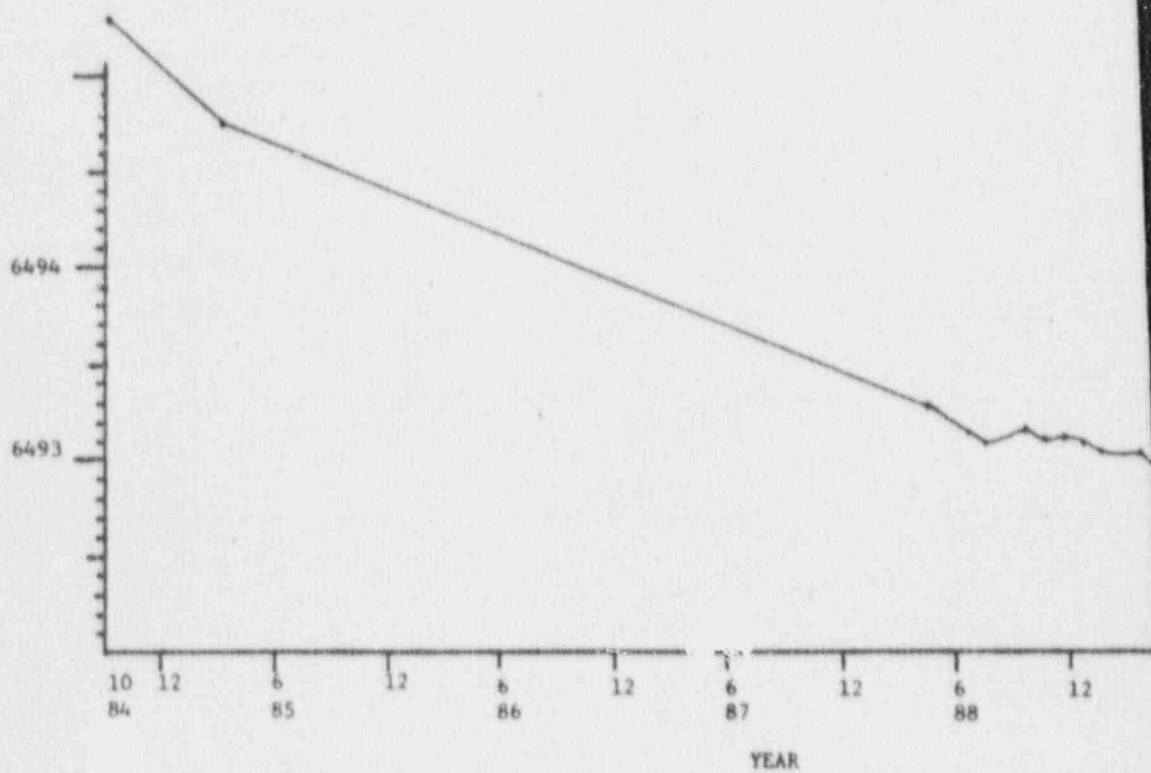
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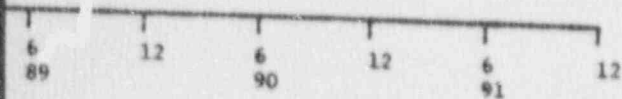
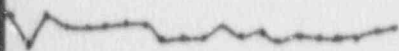
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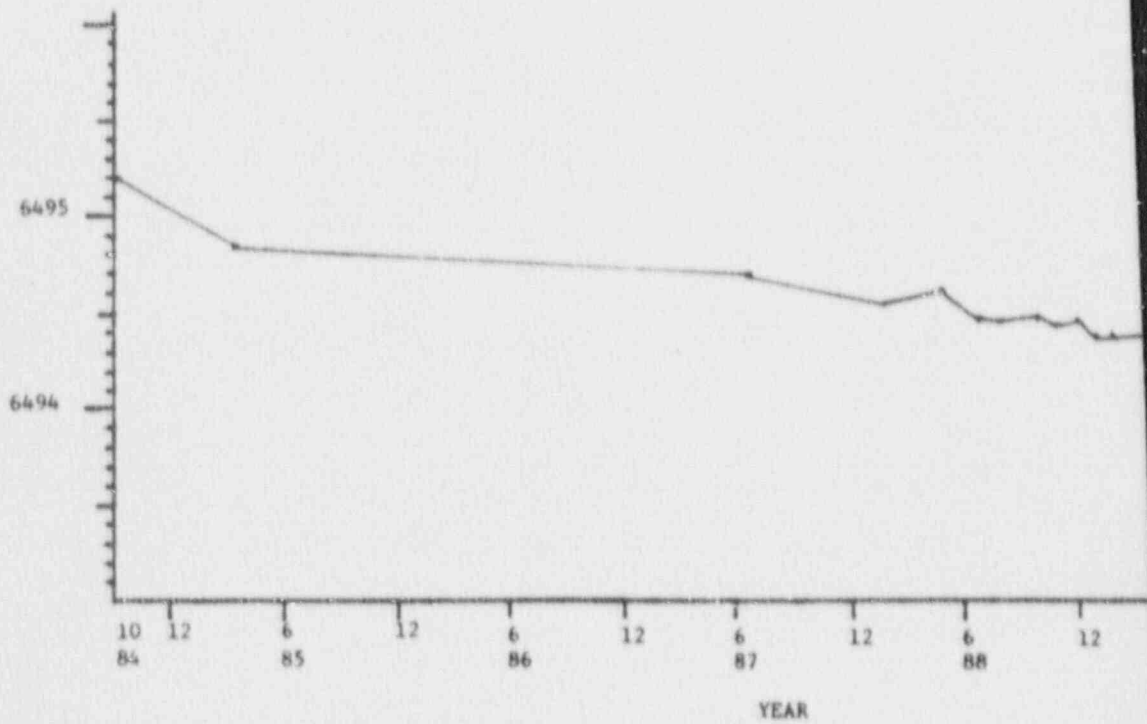
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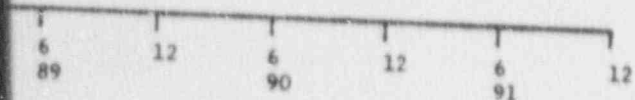
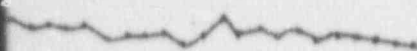
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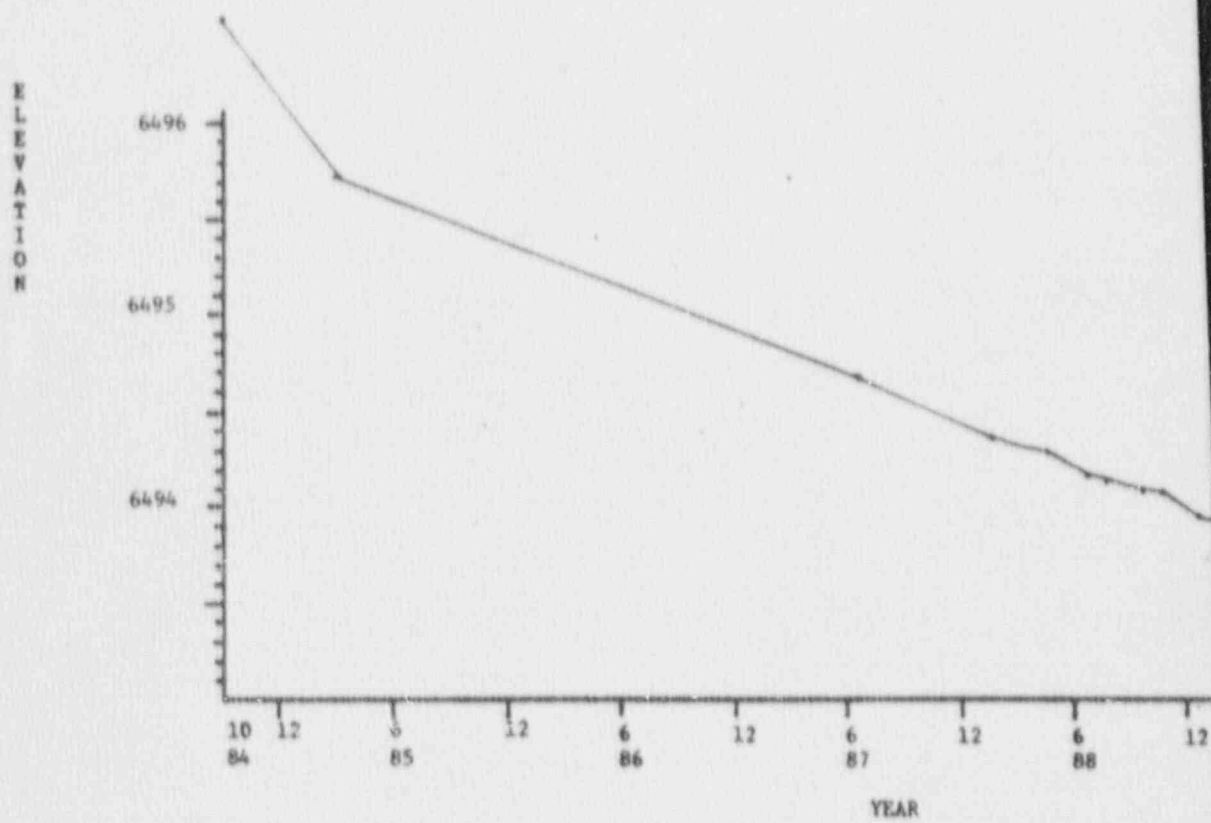


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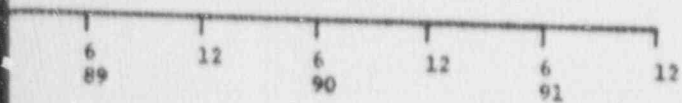
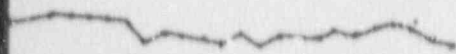
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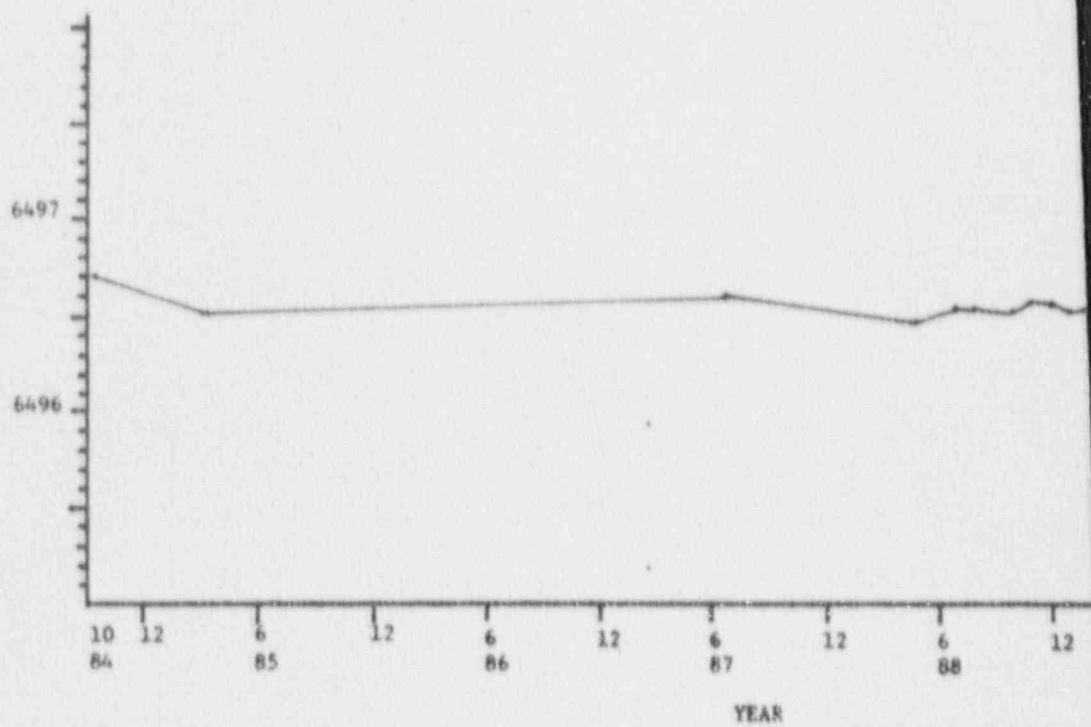
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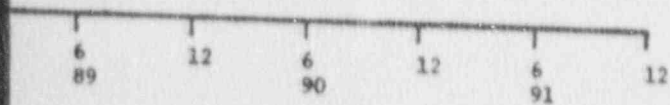
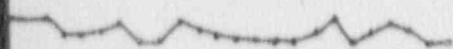
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DIFFERENTIAL
TA

Monument:	DS#1	DS#2	DS#3	DS#4	DS#5	DS#6	DS#7	DS#8
Date (1984)	10-10	10-10	10-10	10-10	10-10	10-10	10-10	10-10
Coord N	779,415.74	779,289.27	779,652.22	779,544.84	779,444.55	779,651.28	779,783.20	779,621.11
Coord E	799,741.40	799,893.88	799,967.85	800,044.80	800,123.79	800,157.89	800,260.30	800,327.11
Elevation	6,495.58	6,497.61	6,495.64	6,496.08	6,497.97	6,496.18	6,495.47	6,496.11
Date (1985)	4-29	4-29	4-29	4-29	4-29	4-29	4-29	4-29
Elevation	6,495.39	6,497.56	6,495.28	6,495.84	6,497.94	6,495.75	6,494.90	6,496.11
Date (1987)	7-1	7-1	7-1	7-1	7-1	7-1	7-1	7-1
Elevation	6,495.43	6,497.75	6,495.31	6,495.89	6,498.16	6,495.60	6,494.46	6,496.11
Date (1988)	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4
Elevation	6,495.75	6,497.81	6,495.36	6,495.91	6,498.31	6,495.58	6,494.42	Snow
Date (1988)	5-31	5-31	5-31	5-31	5-31	5-31	5-31	5-31
Elevation	6,495.75	6,497.99	6,495.36	6,496.01	6,498.33	6,495.58	6,494.46	6,496.11
Date (1988)	7-9	7-9	7-9	7-9	7-9	7-9	7-9	7-9
Elevation	6,495.60	6,497.79	6,495.23	6,495.80	6,498.18	6,495.43	6,494.29	6,496.11
Date (1988)	8-20	8-20	8-20	8-20	8-20	8-20	8-20	8-20
Elevation	6,495.58	6,497.83	6,495.25	6,495.85	6,498.18	6,495.42	6,494.29	6,496.11
Date (1988)	10-7	10-7	10-7	10-7	10-7	10-7	10-7	10-7
Elevation	6,495.60	6,497.83	6,495.24	6,495.82	6,498.16	6,495.42	6,494.28	6,496.11
Date (1988)	11-14	11-14	11-14	11-14	11-14	11-14	11-14	11-14
Elevation	6,495.63	6,497.84	6,495.23	6,495.46	6,498.24	6,495.42	6,494.29	6,496.11
Date (1988)	12-15	12-15	12-15	12-15	12-15	12-15	12-15	12-15
Elevation	6,495.62	6,497.83	6,495.23	6,495.46	6,498.22	6,495.41	6,494.24	6,496.11
Date (1989)	1-25	1-25	1-25	1-25	1-25	1-25	1-25	1-25
Elevation	6,495.57	6,497.79	6,495.16	6,495.74	6,498.17	6,495.34	6,494.16	6,496.11
Date (1989)	2-28	2-28	2-28	2-28	2-28	2-28	2-28	2-28
Elevation	6,495.55	6,497.78	6,495.14	6,495.47	6,498.18	6,495.34	6,494.13	6,496.11
Date (1989)	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1
Elevation	6,495.59	6,497.82	6,495.14	6,495.77	6,498.16	6,495.34	6,494.11	6,496.11
Date (1989)	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7
Elevation	6,495.61	6,497.60	6,495.16	6,495.78	6,498.16	6,495.34	6,494.11	6,496.11
Date (1989)	6-4	6-4	6-4	6-4	6-4	6-4	6-4	6-4
Elevation	6,495.61	6,497.76	6,495.16	6,495.73	6,498.14	6,495.30	6,494.07	6,496.11

AL SETTLEMENT MONUMENTS
 LLINGS POND NO. 2

	<u>DS#9</u>	<u>DS#10</u>	<u>DS#11</u>	<u>DS#12</u>	<u>DS#13</u>
	10-10	10-10	10-10	10-10	10-10
.33	779,496.93	779,850.89	779,704.97	779,833.50	779,664.62
.19	800,380.14	800,564.18	800,607.59	800,787.20	800,819.30
.43	6,499.72	6,495.27	6,495.18	6,496.53	6,496.70
	4-29	4-29	4-29	4-29	4-29
.30	6,499.70	6,494.72	6,494.81	6,495.70	6,496.50
	7-1	7-1	7-1	7-1	7-1
.29	6,500.04		6,494.67	6,494.66	6,496.59
	2-4 Snow	2-4 Snow	2-4	2-4	2-4
			6,494.53	6,494.34	6,496.68
	5-31	5-31	5-31	5-31	5-31
.30	6,500.16	6,493.24	6,494.60	6,494.27	6,496.46
	7-9	7-9	7-9	7-9	7-9
.27	6,500.05	6,493.12	6,494.45	6,494.14	6,496.51
	8-20	8-20	8-20	8-20	8-20
.30	6,500.03	6,493.09	6,494.41	6,494.12	6,496.52
	10-7	10-7	10-7	10-7	10-7
.26	6,500.06	6,493.14	6,494.45	6,494.08	6,496.50
	11-14	11-14	11-14	11-14	11-14
.31	6,500.08	6,493.10	6,494.41	6,494.07	6,496.54
	12-15	12-15	12-15	12-15	12-15
.28	6,500.06	6,493.11	6,494.44	6,494.11	6,496.53
	1-25	1-25	1-25	1-25	1-25
.21	6,500.01	6,493.06	6,494.38	6,493.93	6,496.51
	2-28	2-28	2-28	2-28	2-28
.20	6,500.07	6,493.03	6,494.38	6,493.91	6,496.52
	4-1	4-1	4-1	4-1	4-1
.24	6,500.08	6,493.00	6,494.37	6,493.95	6,496.51
	5-7	5-7	5-7	5-7	5-7
.23	6,500.06	6,492.91	6,494.35	6,493.94	6,496.45
	6-4	6-4	6-4	6-4	6-4
.19	6,499.98	6,492.78	6,494.34	6,493.93	6,496.43

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9102260123-15

DIFFERENTIAL
TABLE

Monument:	DS#1	DS#2	DS#3	DS#4	DS#5	DS#6	DS#7	DS#8
Date (1989)	7-1	7-1	7-1	7-1	7-1	7-1	7-1	7-1
Elevation	6,495.54	6,497.79	6,495.18	6,495.76	6,498.19	6,495.29	6,494.12	6,496.
Date (1989)	8-5	8-5	8-5	8-5	8-5	8-5	8-5	8-5
Elevation	6,495.56	6,497.79	6,495.19	6,495.76	6,498.18	6,495.32	6,494.12	6,496.
Date (1989)	9-2	9-2	9-2	9-2	9-2	9-2	9-2	9-2
Elevation	6,495.56	6,497.80	6,495.12	6,495.78	6,498.17	6,495.34	6,494.26	6,496.
Date (1989)	9-30	9-30	9-30	9-30	9-30	9-30	9-30	9-30
Elevation	6,495.59	6,497.82	6,495.11	6,495.77	6,498.18	6,495.32	6,494.09	6,496.
Date (1989)	11-4	11-4	11-4	11-4	11-4	11-4	11-4	11-4
Elevation	6,495.56	6,497.76	6,495.20	6,495.80	6,498.19	6,495.32	6,494.11	6,496.
Date (1989)	12-9	12-9	12-9	12-9	12-9	12-9	12-9	12-9
Elevation	6,495.62	6,497.82	6,495.17	6,495.77	6,498.20	6,495.30	6,494.00	6,496.

Could not locate monument (in construction area).

Date (1989)	12-30	12-30	12-30	12-30	12-30	12-30	12-30	12-30
Elevation	6,495.50	6,497.85	6,495.04	6,495.66	6,498.11	6,495.24	6,494.06	6,496.
Date (1990)	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3
Elevation	6,495.59	6,497.85	6,495.17	6,495.98	6,498.18	6,495.23	6,494.01	6,496.
Date (1990)	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3
Elevation	6,495.54	6,497.73	6,495.08	6,495.68	6,498.13	6,495.23	6,494.03	6,496.
Date (1990)	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7
Elevation	6,500.13	6,502.53	6,495.21	6,500.22	6,502.61	6,495.24	6,494.02	6,496.

Monuments DS#1, #2, #4, #5, & #9 were raised 4.6', 4.8', 4.5', 4.5' & 4.7' respectively in anticipa

Date (1990)	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5
Elevation	6,500.27	6,502.53	6,495.22	6,500.27	6,502.64	6,495.30	6,494.08	6,496.2
Date (1990)	6-9	6-9	6-9	6-9	6-9	6-9	6-9	6-9
Elevation	6,500.28	6,502.55	6,495.22	6,500.27	6,502.69	6,495.31	6,494.09	6,496.2
Date (1990)	7-7	7-7	7-7	7-7	7-7	7-7	7-7	7-7
Elevation	6,500.13	6,502.56	6,495.22	6,500.28	6,502.69	6,495.29	6,494.09	6,496.2
Date (1990)	8-4	8-4	8-4	8-4	8-4	8-4	8-4	8-4
Elevation	6,500.27	6,502.57	6,495.23	6,500.27	6,502.66	6,495.28	6,494.07	6,496.2

SETTLEMENT MONUMENTS
KINGS FORD NO. 2

Page 2

	<u>DS#9</u>	<u>DS#10</u>	<u>DS#11</u>	<u>DS#12</u>	<u>DS#13</u>
	7-1	7-1	7-1	7-1	7-1
19	6,500.09	6,492.95	6,494.33	6,493.93	6,496.44
	8-5	8-5	8-5	8-5	8-5
23	6,500.04	6,492.89	6,494.35	6,493.91	6,496.51
	9-2	9-2	9-2	9-2	9-2
16	6,500.02	6,492.89	6,494.29	6,493.82	6,496.42
	9-30	9-30	9-30	9-30	9-30
20	6,500.05	6,492.91	6,494.31	6,493.87	6,496.43
	#	11-4	11-4	11-4	11-4
23	6,500.00	6,492.91	6,494.32	6,493.86	6,496.53
	12-9	12-9	12-9	12-9	12-9
22	6,499.95	6,492.92	6,494.34	6,493.86	6,496.48
	12-30	12-30	12-30	12-30	12-30
16	6,499.90	6,492.83	6,494.29	6,493.83	6,496.45
	2-3	2-3	2-3	2-3	2-3
23	6,499.90	6,492.85	6,494.32	6,493.89	6,496.43
	3-3	3-3	3-3	3-3	3-3
2	6,499.89	6,492.86	6,494.42	6,493.82	6,496.43
	4-7	4-7	4-7	4-7	4-7
9	6,504.59	6,492.91	6,494.33	6,493.88	6,496.44
tion of placing fill material					
	5-5	5-5	5-5	5-5	5-5
0	6,504.57	6,492.87	6,494.37	6,493.88	6,496.41
	6-9	6-9	6-9	6-9	6-9
0	6,504.57	6,492.88	6,494.34	6,493.88	6,496.49
	7-7	7-7	7-7	7-7	7-7
0	6,504.57	6,492.85	6,494.38	6,493.91	6,496.55
	8-4	8-4	8-4	8-4	8-4
1	6,504.57	6,492.87	6,494.33	6,493.89	6,496.45

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DIFFERENTIAL
TABLE

Monument:	DS#1	DS#2	DS#3	DS#4	DS#5	DS#6	DS#7	DS#8
Date (1990)	9-8	9-8	9-8	9-8	9-8	9-8	9-8	9-8
Elevation	6,500.29	6,502.57	6,495.23	6,500.30	6,502.71	6,495.29	6,494.11	6,494.11
Date (1990)	10-6	10-6	10-6	10-6	10-6	10-6	10-6	10-6
Elevation	6,500.30	6,502.56	6,495.24	6,500.29	6,502.72	6,495.30	6,494.10	6,494.10
Date (1990)	11-3	11-3	11-3	11-3	11-3	11-3	11-3	11-3
Elevation	6,500.33	6,502.78	6,495.30	6,500.30	6,502.69	6,501.51	6,494.09	6,494.09
Monument #6 was raised 6.1' in anticipation of placing fill material								
Date (1990)	12-8	12-8	12-8	12-8	12-8	12-8	12-8	12-8
Elevation	6,500.30	6,502.57	6,499.91	6,500.28	6,502.63	6,501.42	6,499.67	6,502.63
Monuments 3, 7, 8, 10, 11, 12, 13 were raised 4.7, 5.5, 6.1, 6.5, 8.2, 6.6, and 6.2 respectively								
Date (1991)	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5
Elevation	6,500.32	6,502.64	6,499.98	6,500.30	6,502.67	6,501.44	6,499.68	6,502.67

AL SETTLEMENT MONUMENTS
 LLINGS POND NO. 2

Page 3

	<u>DS#9</u>	<u>DS#10</u>	<u>DS#11</u>	<u>DS#12</u>	<u>DS#13</u>
	9-8	9-8	9-8	9-8	9-8
.22	6,504.59	6,492.87	6,494.33	6,493.93	6,496.50
	10-6	10-6	10-6	10-6	10-6
.22	6,504.58	6,492.87	6,494.34	6,493.96	6,496.56
	11-3	11-3	11-3	11-3	11-3
.26	6,504.60	6,492.87	6,494.34	6,493.93	6,496.52
	12-8	12-8	12-8	12-8	12-8
.33	6,504.59	6,499.51	6,502.51	6,500.47	6,502.65
in anticipation of placing fill material					
	1-5	1-5	1-5	1-5	1-5
.36	6,504.58	6,499.44	6,502.52	6,500.45	6,502.66

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