This document was too large to scan as a single document; therefore, it has been divided into smaller sections.

Section 1 of 3

Document Information			
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5C

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SELECTED WATER TABLE CONTOUR MAPS AND WELL HYDROGRAPHS FOR THE HANFORD RESERVATION, 1944-1973

Battelle
Pacific Northwest Laboratories
Richland, Washington 99352

1974

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Prepared for the U.S. Atomic Energy Commission under Contract AT(45-1):1830

BNWL-B-360

BNWL-B-360

SELECTED WATER TABLE CONTOUR MAPS AND WELL HYDROGRAPHS FOR THE HANFORD RESERVATION, 1944-1973

by

K. L. Kipp
R. D. Mudd

WATER AND LAND RESOURCES DEPARTMENT

1974

This report is based on work sponsored by the Atlantic Richfield Hanford Company under United States Atomic Energy Commission Contract AT(45-1)-2130

PACIFIC NORTHWEST LABORATORIES
a division of
BATTELLE MEMORIAL INSTITUTE
P. O. Box 999
Richland, Washington 99352

SELECTED WATER TABLE CONTOUR MAPS AND WELL HYDROGRAPHS FOR THE HANFORD RESERVATION, 1944-1973

The 14 water table maps presented in this data report were drawn from data collected during the life of the AEC Hanford Reservation through April 1973. The selected maps were prepared for various months of the years 1944, 1951, 1955, 1960, 1965, 1970, 1971, 1972, and 1973. With the exception of the 1944 map, each map was hand contoured from water level measurements made during that month from the available wells on and adjacent to the Hanford Reservation. The maps drawn present a uniform hydrogeological interpretation based upon the present knowledge of the water table configuration, groundwater flow paths, and hydrological boundaries. The 1944 map is a composite interpretation based on back extrapolation of the well hydrograph data and previous maps prepared by Newcomb and Strand[1] and by Bierschenk.[2] The groundwater contours are for the unconfined or water-table aquifer. A 10-foot contour interval was generally used, except where intermediate contour levels were required for clarity. The available construction data for each observation well are contained in the latest edition of "Hanford Wells."[3]

The second major component of this document is a set of historical well hydrographs for the Hanford Reservation wells. These hydrographs contain the current library of data for each well for which more than two water level measurements have been taken since 1944. The graphs start in 1948, the first year in which elevation measurements were taken. Data from older wells are plotted on hydrographs spanning the periods 1948-1960 and 1961-1973 to provide more resolution. Only the 1961-1973 hydrographs are shown for the newer wells. A vertical scale spanning 30 feet was used for all except the few wells that required a larger range. All elevations are given in feet above mean sea level. Changes in well casing elevations have been factored into each data record. These changes are the result of more accurate elevation and location surveys, changes in reference bench mark elevations, and casing modifications.

A data retrieval and display program has been developed to retrieve well hydrograph and contamination data and produce a visual display on a UNIVAC 1558 graphics display unit.[4] This program, written for the PDP-9 computer, can perform this function for all wells on the Hanford Reservation for which field measurements are available. The system has the capability of producing a printed well hydrograph to any desired scale of resolution, and it provides a quick method of

retrieving, displaying, and outputting hydrograph data in hard copy on an INFO-MAX printer/plotter. The program also provides an efficient method for detecting errors and discrepancies in the data, which then can be quickly corrected on the permanent magnetic tape data file. Periodic updates to the hydrograph data file are made as additional data are collected. Thus, new editions of this document are planned to keep it relatively current.

Locations of the wells are indicated on the well location maps of Figures 1, 2, and 3. "Hanford Wells" contains construction data on each well. The well structures are identified by a number composed of three basic parts in the form XXXX-XXX-XXX. The first part is the facility number XX99, where XX is 01, 02, 03, 06, 11, or 30, depending on the Hanford Reservation area in which the well is located. The second and third groups of numbers vary by areas and are explained below.

100 Areas

Well numbers in the 100 Areas (reactor areas) are prefixed by 199. The second group of numbers refers to the area and to the sheet map for the portion of the area where that well is located. The letters B, D, K, F, H, N, designate the specific 100 Area, and the number(s) in the group refers to the appropriate sheet map. Therefore, a well on sheet 3 of the 100-B Area would be numbered 199-B3-X. The sheet maps are shown on the official maps for an area. The 100-K and 100-N Areas were not divided into sheet maps so only the letter symbol appears for wells in these areas.

The third group of numbers refers to the well number within the sheet map area. In some cases wells have been assigned a 100 Area number even though they are outside the area fence. These wells monitor liquid waste ground disposal facilities outside the area fence but are associated with that particular area.

200 Areas

Well numbers in the 200 Area (Chemical Separations Area) are prefixed by 299, and the second group of numbers refers to the 200 East Area (E) or the 200 West Area (W), followed by the sheet number as described above. The third group of numbers refers to the well number within the sheet map subarea. Some of the monitoring wells in the 200 Areas are dry wells (i.e., they do not extend to the water table). These have been differentiated from the water table wells by making the third group of numbers greater than 50.

300 Area

These well numbers are prefixed by 399. Designation of wells in the 300 Area (Laboratory Area) is identical to that described for the 100 and 200 Areas, but no area letter designation is used with the sheet map number in the second group of numbers.

600 Area

The 600 Area includes all of the Hanford Reservation outside the plant limited access areas. Well numbers in this area are prefixed by 699. The second and third groups of numbers for 600 Area wells consist of the north and west plant coordinates, respectively, rounded off to the nearest 1000 feet. For example, a well located at plant coordinates N25663, W14554 would be designated 699-26-15. If the well is located south or east of the plant coordinate origin, an S or E is used with the appropriate number. Some 600 Area wells are located within 1000 feet of each other; these have letters (A, B, C, etc.) following the numbers for unique identification. A few wells located outside of the Hanford Reservation boundaries have also been given 600 Area designations.

Hanford Townsite

The 40 wells in the former Hanford townsite are designated as 600 Area wells with HAN as the second number group and the well number as the third number group. These wells were originally surveyed into the Hanford townsite grid which was established during reactor construction. A conversion to plant coordinates has been made.

Piezometer Tubes

Piezometer tubes have been installed in 83 cased wells to measure potentials and sample the aquifer at various depths. Presence of these tubes is indicated by a letter (O, P, Q, R, S, or T) after the well number. Six other sets of piezometer tubes are individually drilled several feet apart, and are also designated by the sequence of letters P, Q, R, etc.

For wells with piezometer tube sets, only the hydrograph for the uppermost tube has been reproduced here. Data from the piezometer tubes that penetrate to deeper levels have not yet been included in the computer data retrieval system file.

The well hydrographs reproduced in the following pages are presented in numerical order. Two previous reports dating back to 1957 give similar summaries of groundwater elevation data.

REFERENCES

1. R. C. Newcomb, J. R. Strand and F. J. Frank, "Geology and Groundwater Characteristics of the Hanford Reservation of the U.S. Atomic Energy Commission," Washington U.S. Geological Survey Professional Paper #717, 1972.

2. W. H. Bierschenk and M. W. McConiga, "Changes in the Hanford Water Table, 1944-1957," HW-51277, July 9, 1957.

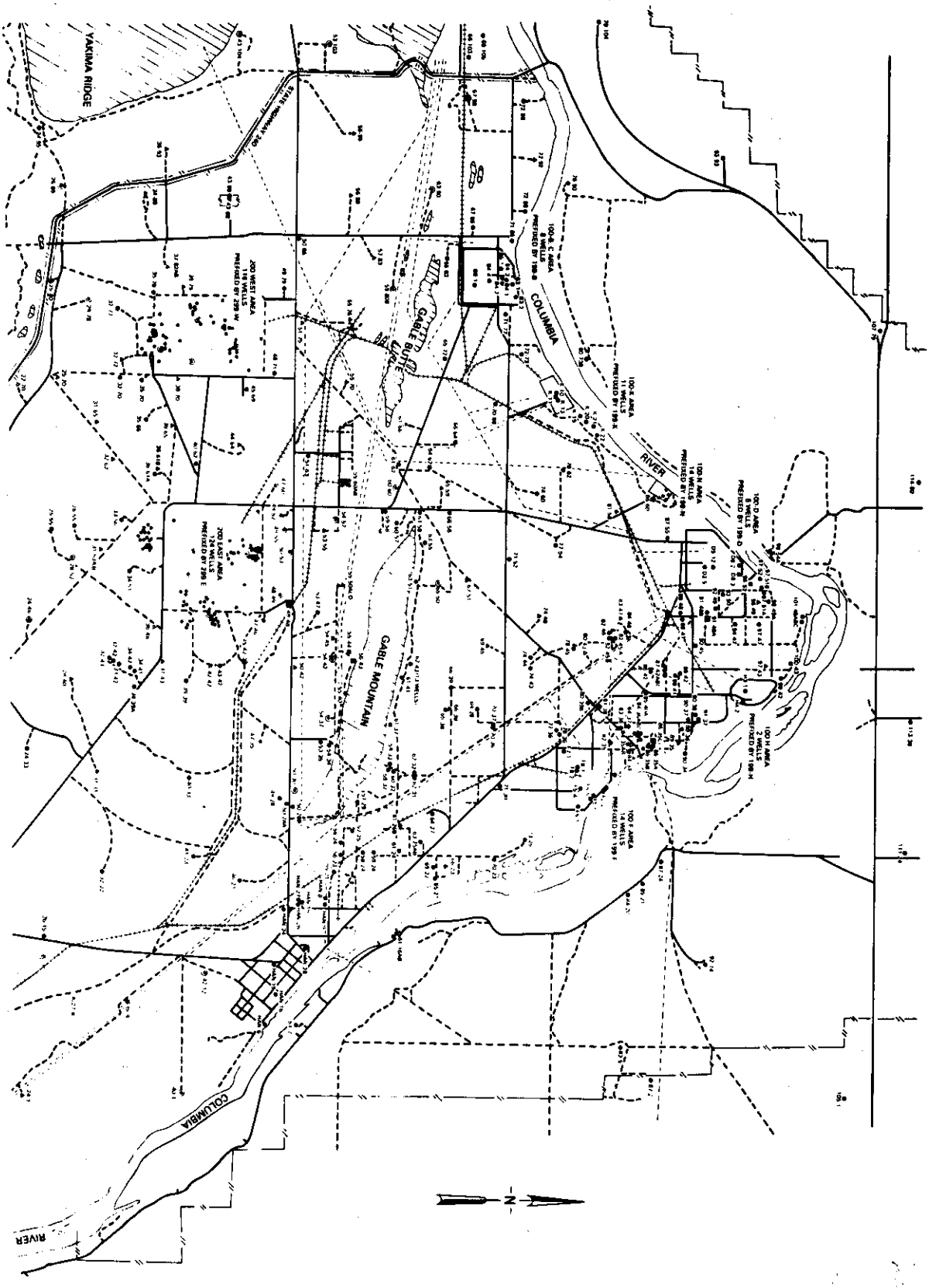
3. K. L. Kipp, V. L. McGhan and D. W. Damschen, "Hanford Wells," BNWL-1739, June 1973.

4. D. R. Friedrichs, "Information Storage and Retrieval System for Well Hydrograph Data, User's Manual," BNWL-1705, 1973.

5. W. H. Bierschenk, "Fluctuations of Hanford Water Levels," HW-53599, November 14, 1957.

ACKNOWLEDGMENTS

The authors would like to acknowledge the efforts of D. R. Friedrichs, V. L. McGhan, J. L. Rising, E. L. Hilty, D. W. Damschen, J. Rheinschmidt, and P. M. Schrotke, who performed the various data collection, transcription, retrieval system preparation and cartographic tasks necessary for the preparation of this report. The Routine Water Level Measurement Program which provided the data presented here is a continuing effort sponsored by Physical and Life Science Technology (ARHCO). The reviews of R. E. Isaacson and D. J. Brown, of Atlantic Richfield Hanford Company, were appreciated.


YAKIMA RIDGE
COLUMBIA
RIVER
CABLE MOUNTAIN
CABLE BUTTE
COLUMBIA
RIVER
N

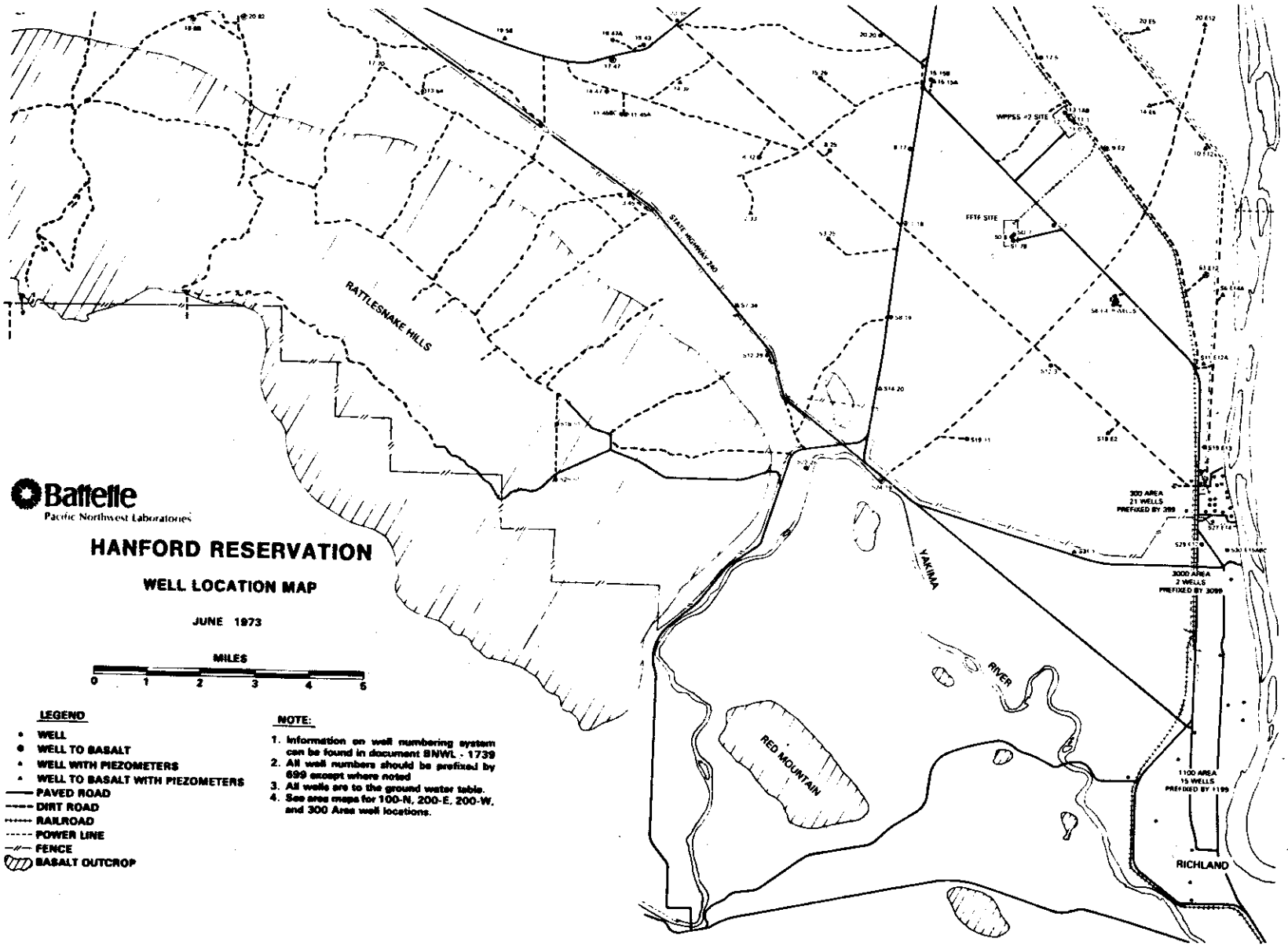
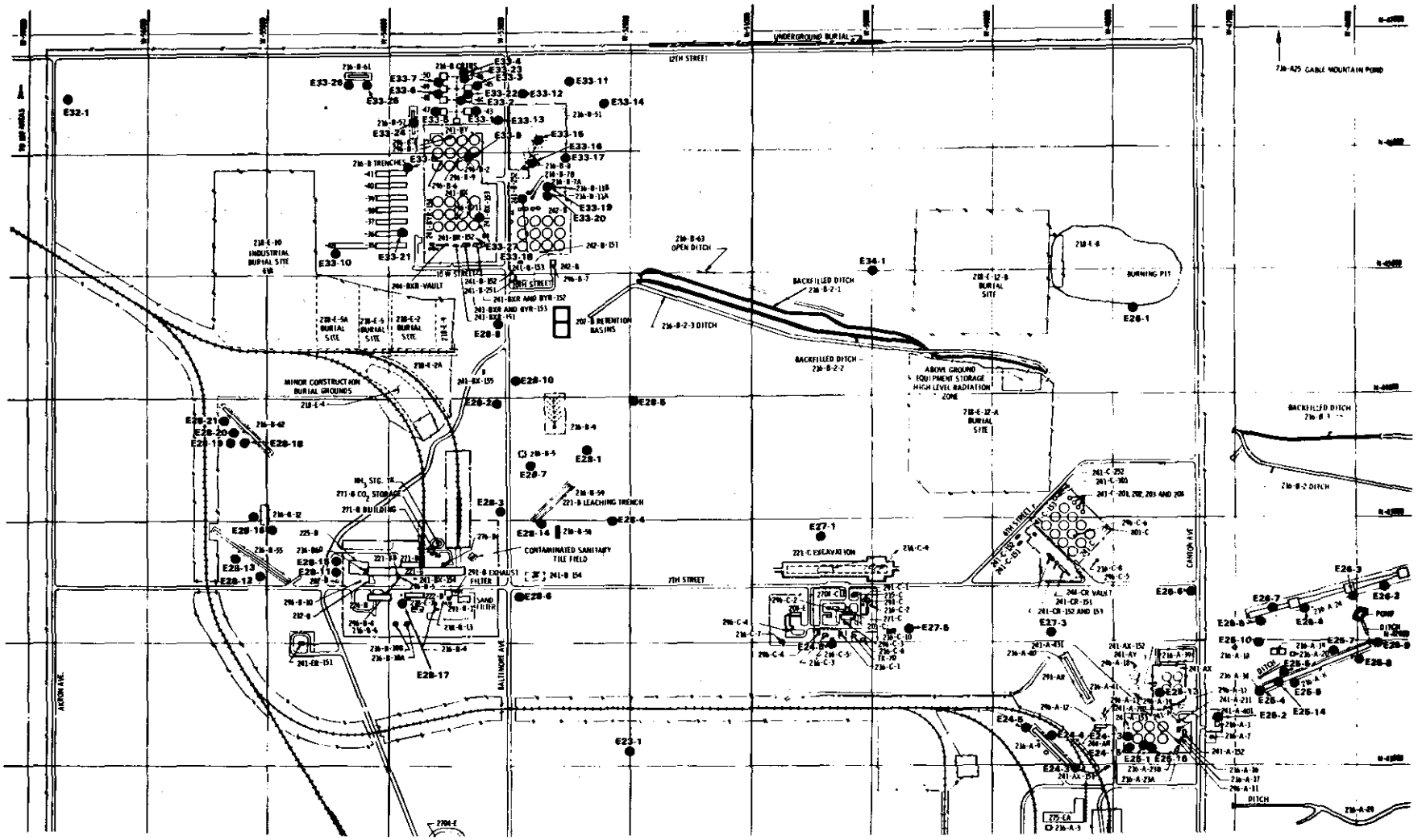

Battelle
Pacific Northwest Laboratories
HANFORD RESERVATION
WELL LOCATION MAP
JUNE 1973
MILES
0 1 2 3 4 5
LEGEND
WELL
WELL TO BASALT
WELL WITH PIEZOMETERS
WELL TO BASALT WITH PIEZOMETERS
PAVED ROAD
DIRT ROAD
RAILROAD
POWER LINE
FENCE
BASALT OUTCROP
NOTE:
1. Information on well numbering system can be found in document BNWL - 1739
2. All well numbers should be prefixed by 699 except where noted
3. All wells are to the ground water table.
4. See area maps for 100-N, 200-E, 200-W, and 300 Area well locations.
RATTLESNAKE HILLS
STATE HIGHWAY 240
WPPSS #2 SITE
FFTF SITE
300 AREA
21 WELLS
PREFIXED BY 399
3000 AREA
2 WELLS
PREFIXED BY 3099
1100 AREA
15 WELLS
PREFIXED BY 1199
YAKIMA
RIVER
RED MOUNTAIN
RICHLAND

FIGURE 1


UNDERGROUND BURIAL
12TH STREET
216-A25 CABLE MOUNTAIN POND
E32-1
E33-20
E33-7
E33-6
E33-26
E33-24
E33-4
E33-23
E33-3
E33-22
E33-2
E33-12
E33-11
E33-14
E33-13
E33-8
E33-15
E33-16
E33-17
E33-19
E33-20
E33-27
E33-18
E33-21
E33-10
216-B TRENCHES
216-E-10 INDUSTRIAL BURIAL SITE
244-BXR-VAULT
10 W STREET
10TH STREET
241-BXR AND BYR-152
241-BXR AND BYR-153
241-BXR-151
E28-8
216-E-5A BURIAL SITE
216-E-5 BURIAL SITE
216-E-2 BURIAL SITE
216-E-2A
MINOR CONSTRUCTION BURIAL GROUNDS
216-E-4
E28-21
E28-20
E28-19
E28-18
216-B-42
216-B-32
E28-16
E28-13
E28-12
225-B
216-B-55
216-B-60
E28-15
E28-11
221-B
241-BX-154
291-B
216-B-10
212-B
216-B-4
216-B-4A
216-B-3
216-B-3AA
216-B-3BB
216-B-4
241-CR-151
E28-17
SAND FILTER
216-B-13
291-B EXHAUST FILTER
NH3 STG. TK.
271-B CO2 STORAGE
271-B BUILDING
E28-3
E28-14
216-B-56
CONTAMINATED SANITARY TILE FIELD
216-B-59
221-B LEACHING TRENCH
E28-4
E28-6
E28-10
E28-2
E28-5
216-B-4
216-B-5
E28-1
E28-7
E28-9
241-BX-155
216-B-43 OPEN DITCH
E34-1
BACKFILLED DITCH 216-B-2-1
216-B-2-3 DITCH
207-B RETENTION BASINS
BACKFILLED DITCH 216-B-2-2
216-E-12-B BURIAL SITE
216-E-6
BURNING PIT
E26-1
ABOVE GROUND EQUIPMENT STORAGE HIGH LEVEL RADIATION ZONE
216-E-12-A BURIAL SITE
BACKFILLED DITCH 216-B-1
216-B-2 DITCH
E27-1
221-C EXCAVATION
216-C-4
241-C-252
241-C-100
241-C-201, 202, 203 AND 204
241-C-101
216-C-6
216-C-5
244-CR VAULT
241-CR-151
241-CR-152 AND 153
E27-3
E27-5
E24-6
E24-5
E24-4
E24-3
E24-2
E24-1
E23-1
7TH STREET
6TH STREET
CANYON AVE
AKRON AVE
BALTIMORE AVE
E26-6
E26-7
E26-3
E26-2
E26-4
E26-8
E26-10
E26-9
E26-5
E26-14
E26-1
E26-16
POND
DITCH
216-A-29
216-A-37
216-A-31
275-LA
216-A-3

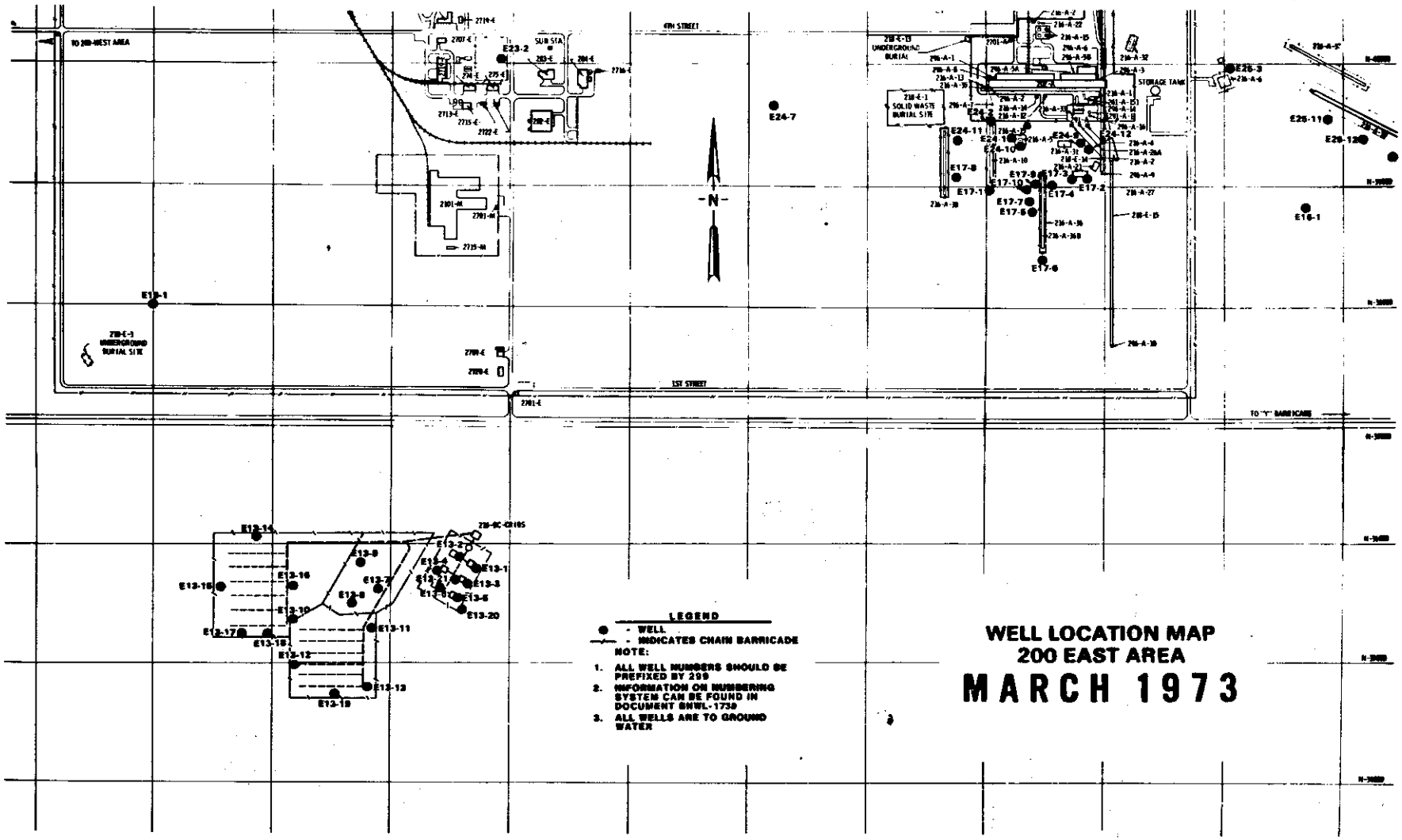
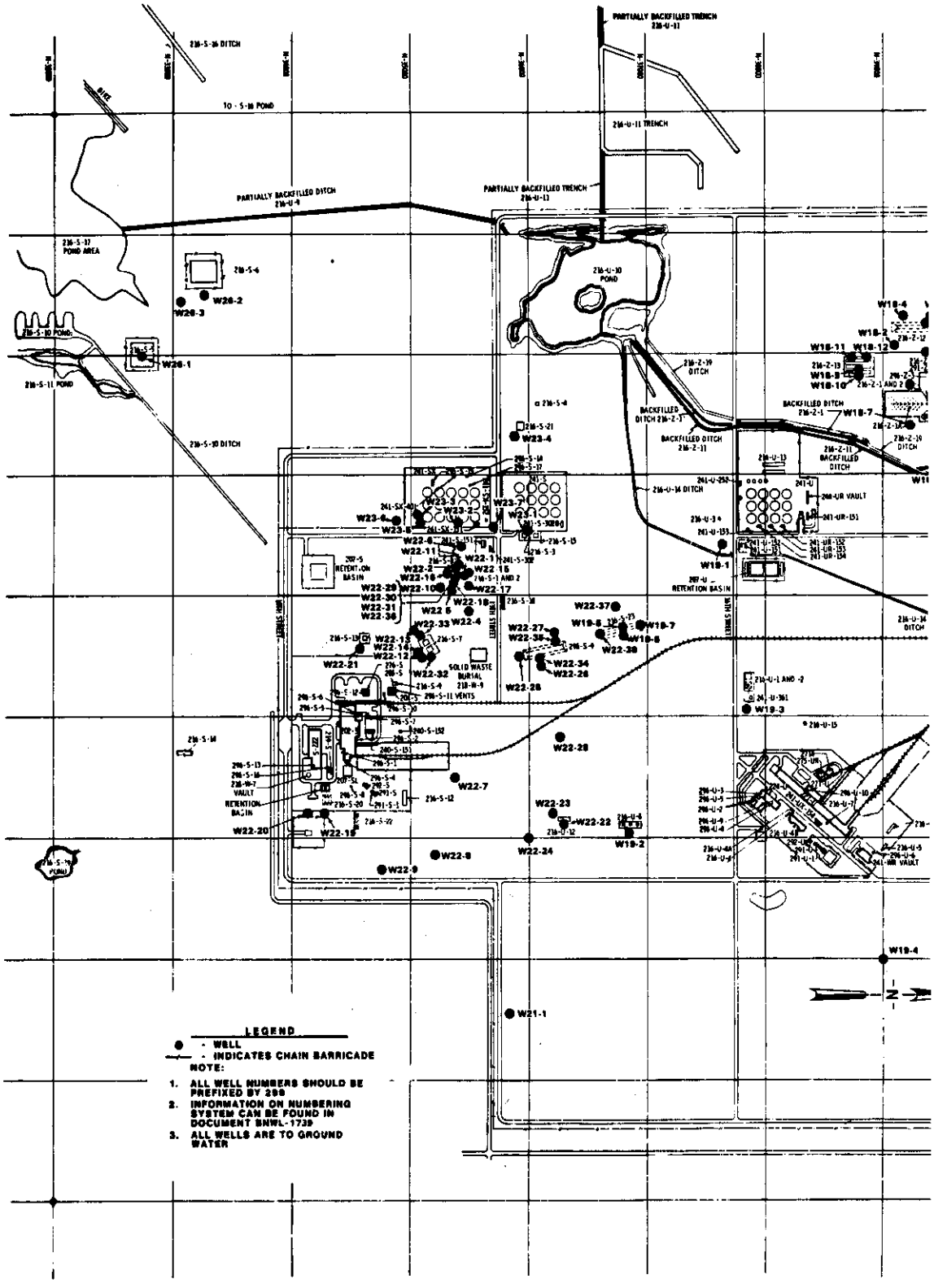

WELL LOCATION MAP
200 EAST AREA
MARCH 1973
LEGEND
- WELL
- INDICATES CHAIN BARRICADE
NOTE:
1. ALL WELL NUMBERS SHOULD BE PREFIXED BY 299
2. INFORMATION ON NUMBERING SYSTEM CAN BE FOUND IN DOCUMENT BNWL-1739
3. ALL WELLS ARE TO GROUND WATER
N
4TH STREET
1ST STREET
TO 200-WEST AREA
TO "Y" BARRICADE
SUB STA
STORAGE TANK
UNDERGROUND BURIAL
SOLID WASTE BURIAL SITE
UNDERGROUND BURIAL SITE
E23-2
E24-7
E25-3
E25-11
E25-12
E16-1
E13-1
E17-1
E17-2
E17-3
E17-4
E17-5
E17-6
E17-7
E17-8
E17-9
E17-10
E24-1
E24-2
E24-4
E24-5
E24-6
E24-10
E24-11
E24-12
E13-1
E13-2
E13-3
E13-4
E13-5
E13-6
E13-7
E13-8
E13-9
E13-10
E13-11
E13-12
E13-13
E13-14
E13-15
E13-16
E13-17
E13-18
E13-19
E13-20

FIGURE 2



LEGEND

● - WELL

—/— - INDICATES CHAIN BARRICADE

NOTE:

1. ALL WELL NUMBERS SHOULD BE PREFIXED BY 299
2. INFORMATION ON NUMBERING SYSTEM CAN BE FOUND IN DOCUMENT BNWL-1739
3. ALL WELLS ARE TO GROUND WATER

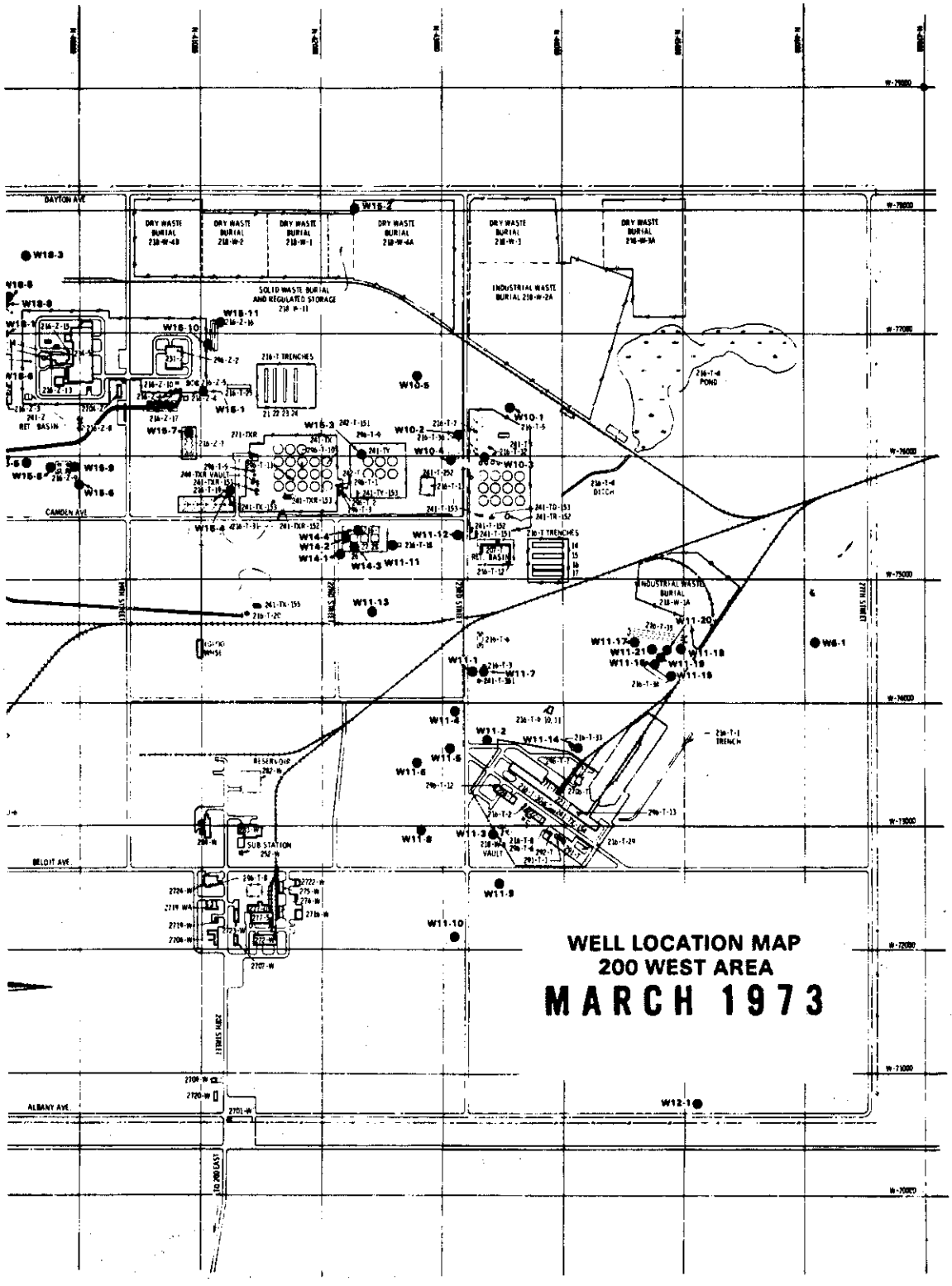

WELL LOCATION MAP
200 WEST AREA
MARCH 1973
DAYTON AVE
CAMDEN AVE
BELOIT AVE
ALBANY AVE
DRY WASTE BURIAL
SOLID WASTE BURIAL AND REGULATED STORAGE
INDUSTRIAL WASTE BURIAL
216-T TRENCHES
RET. BASIN
RESERVOIR
SUB STATION
VAULT
POND
DITCH
W15-2
W18-3
W15-11
W15-10
W15-1
W15-7
W15-3
W15-4
W15-5
W15-6
W15-9
W10-5
W10-1
W10-2
W10-3
W10-4
W11-12
W11-11
W14-4
W14-2
W14-1
W14-3
W11-13
W11-1
W11-7
W11-4
W11-2
W11-14
W11-5
W11-6
W11-8
W11-3
W11-9
W11-10
W11-17
W11-21
W11-18
W11-19
W11-20
W11-15
W6-1
W12-1

FIGURE 3

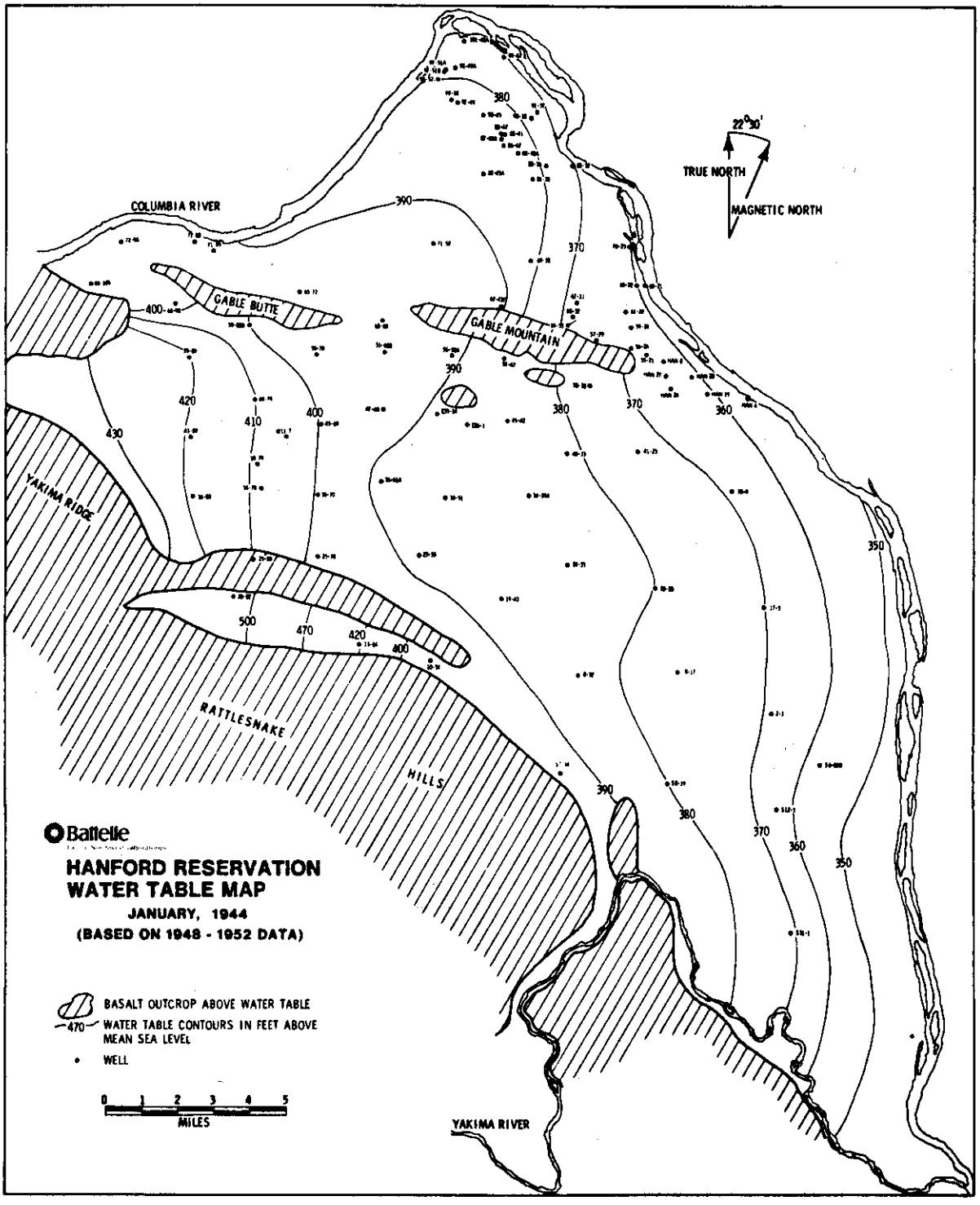

COLUMBIA RIVER
GABLE BUTTE
GABLE MOUNTAIN
YAKIMA RIDGE
RATTLESNAKE
HILLS
YAKIMA RIVER
TRUE NORTH
MAGNETIC NORTH
22°30'
Battelle
HANFORD RESERVATION
WATER TABLE MAP
JANUARY, 1944
(BASED ON 1948 - 1952 DATA)
BASALT OUTCROP ABOVE WATER TABLE
470 WATER TABLE CONTOURS IN FEET ABOVE MEAN SEA LEVEL
WELL
0 1 2 3 4 5
MILES

FIGURE 4

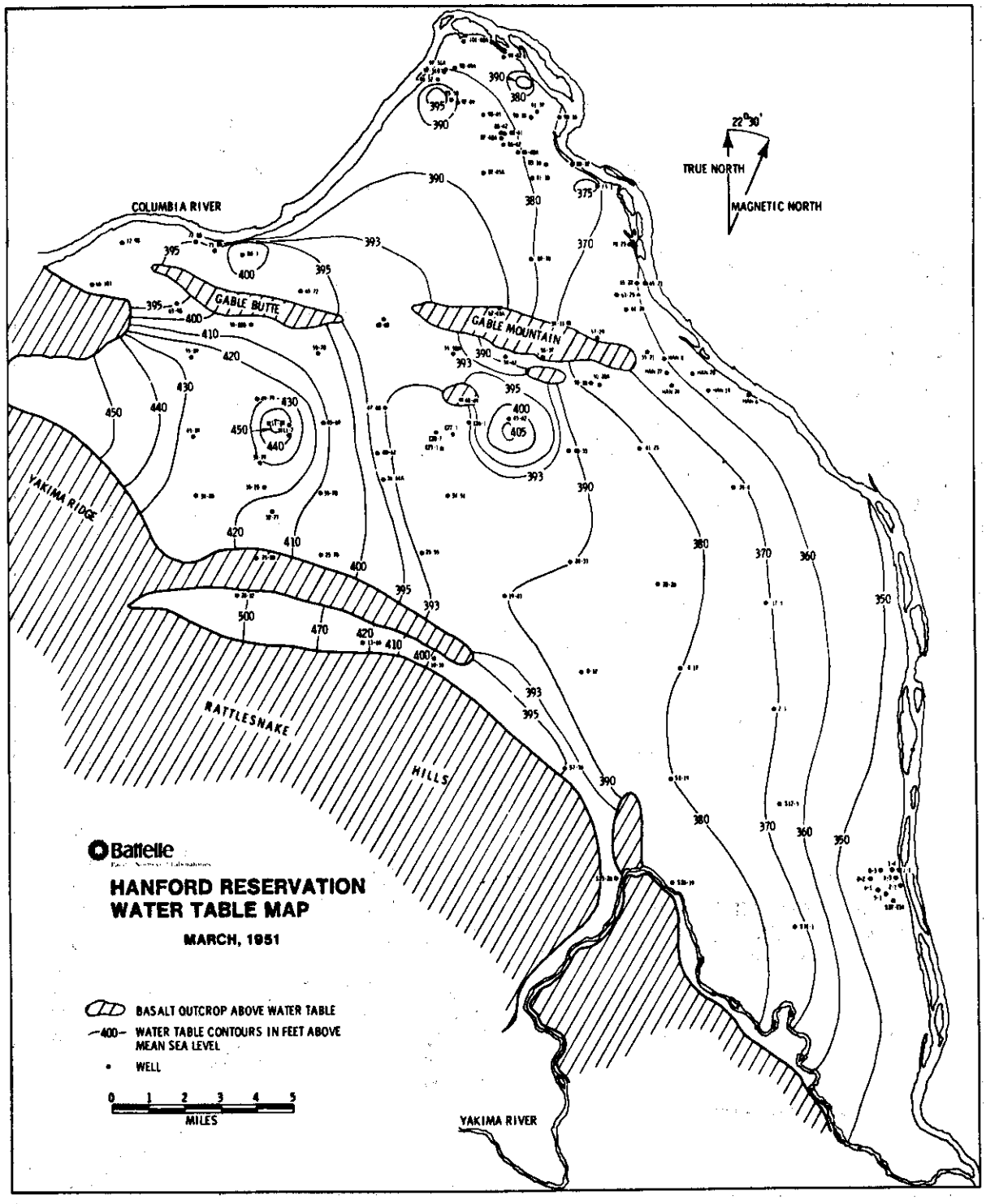

COLUMBIA RIVER
GABLE BUTTE
GABLE MOUNTAIN
YAKIMA RIDGE
RATTLESNAKE
HILLS
YAKIMA RIVER
TRUE NORTH
MAGNETIC NORTH
22°30'
Battelle
HANFORD RESERVATION
WATER TABLE MAP
MARCH, 1951
BASALT OUTCROP ABOVE WATER TABLE
400 WATER TABLE CONTOURS IN FEET ABOVE MEAN SEA LEVEL
WELL
0 1 2 3 4 5
MILES

FIGURE 5

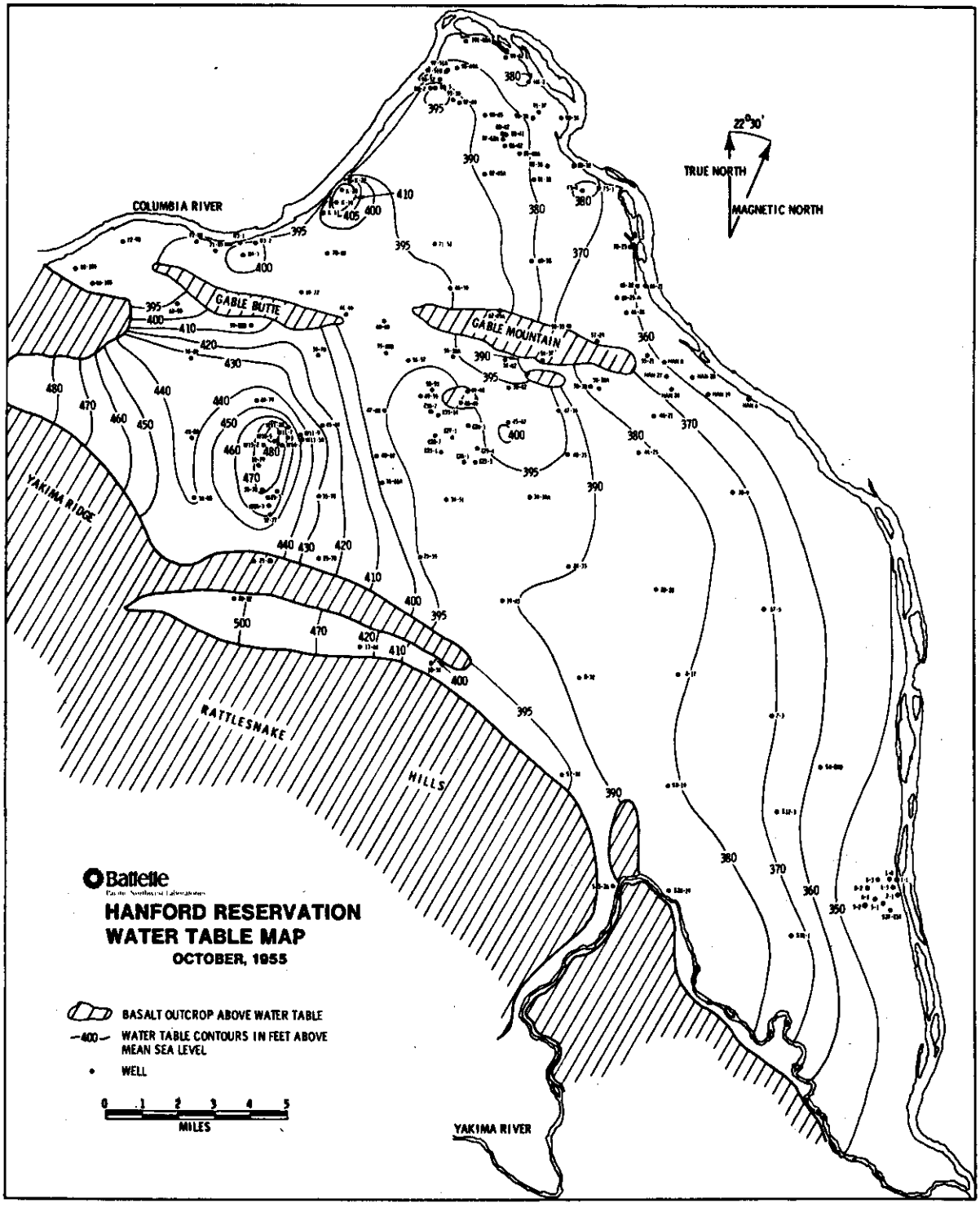

HANFORD RESERVATION
WATER TABLE MAP
OCTOBER, 1955
Battelle
BASALT OUTCROP ABOVE WATER TABLE
WATER TABLE CONTOURS IN FEET ABOVE MEAN SEA LEVEL
WELL
MILES
COLUMBIA RIVER
YAKIMA RIVER
GABLE BUTTE
GABLE MOUNTAIN
YAKIMA RIDGE
RATTLESNAKE HILLS
TRUE NORTH
MAGNETIC NORTH
22°30'

FIGURE 6

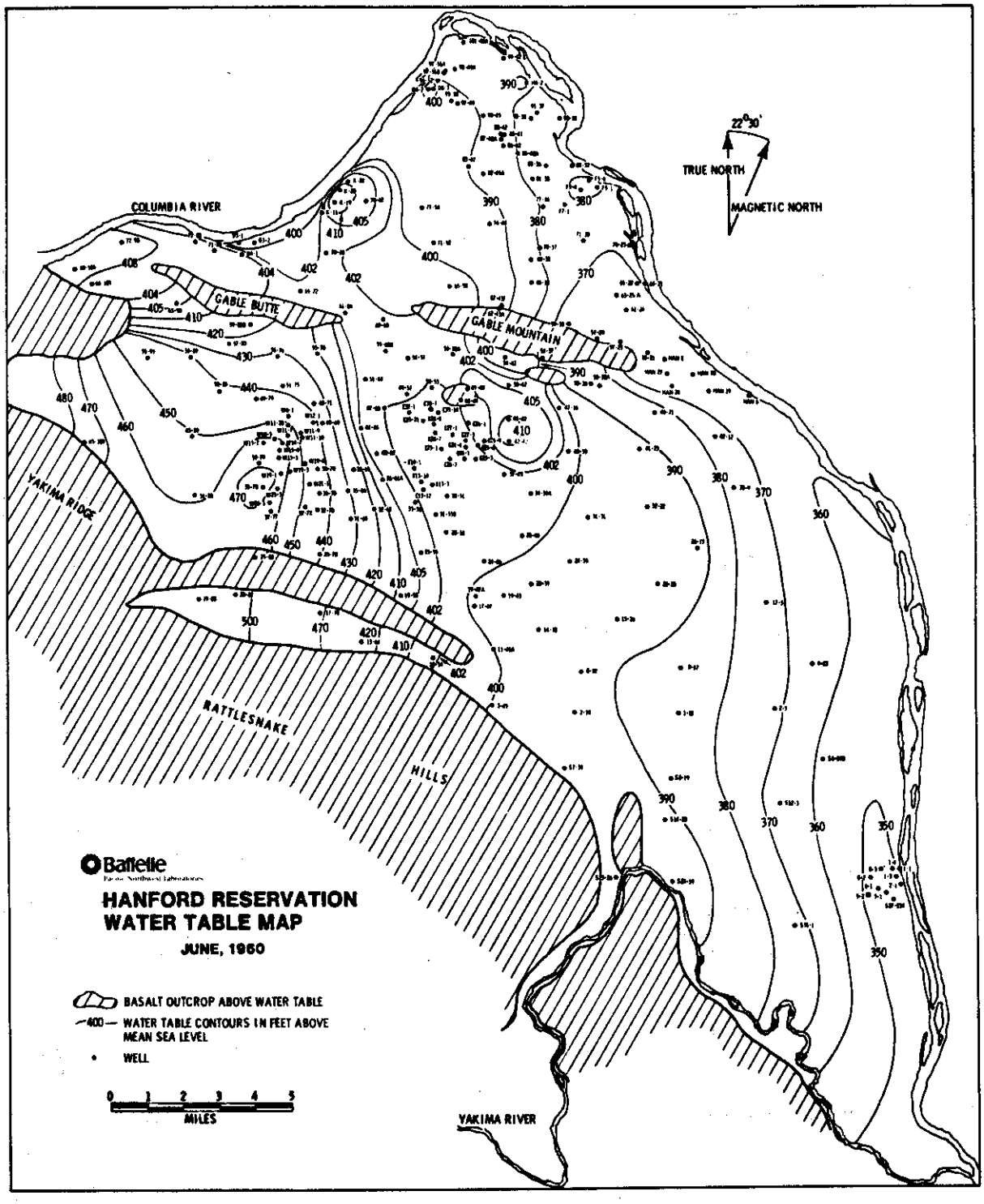

COLUMBIA RIVER
GABLE BUTTE
GABLE MOUNTAIN
YAKIMA RIDGE
RATTLESNAKE
HILLS
YAKIMA RIVER
TRUE NORTH
MAGNETIC NORTH
22°30'
Battelle
HANFORD RESERVATION
WATER TABLE MAP
JUNE, 1960
BASALT OUTCROP ABOVE WATER TABLE
400 — WATER TABLE CONTOURS IN FEET ABOVE MEAN SEA LEVEL
WELL
0 1 2 3 4 5
MILES

FIGURE 7

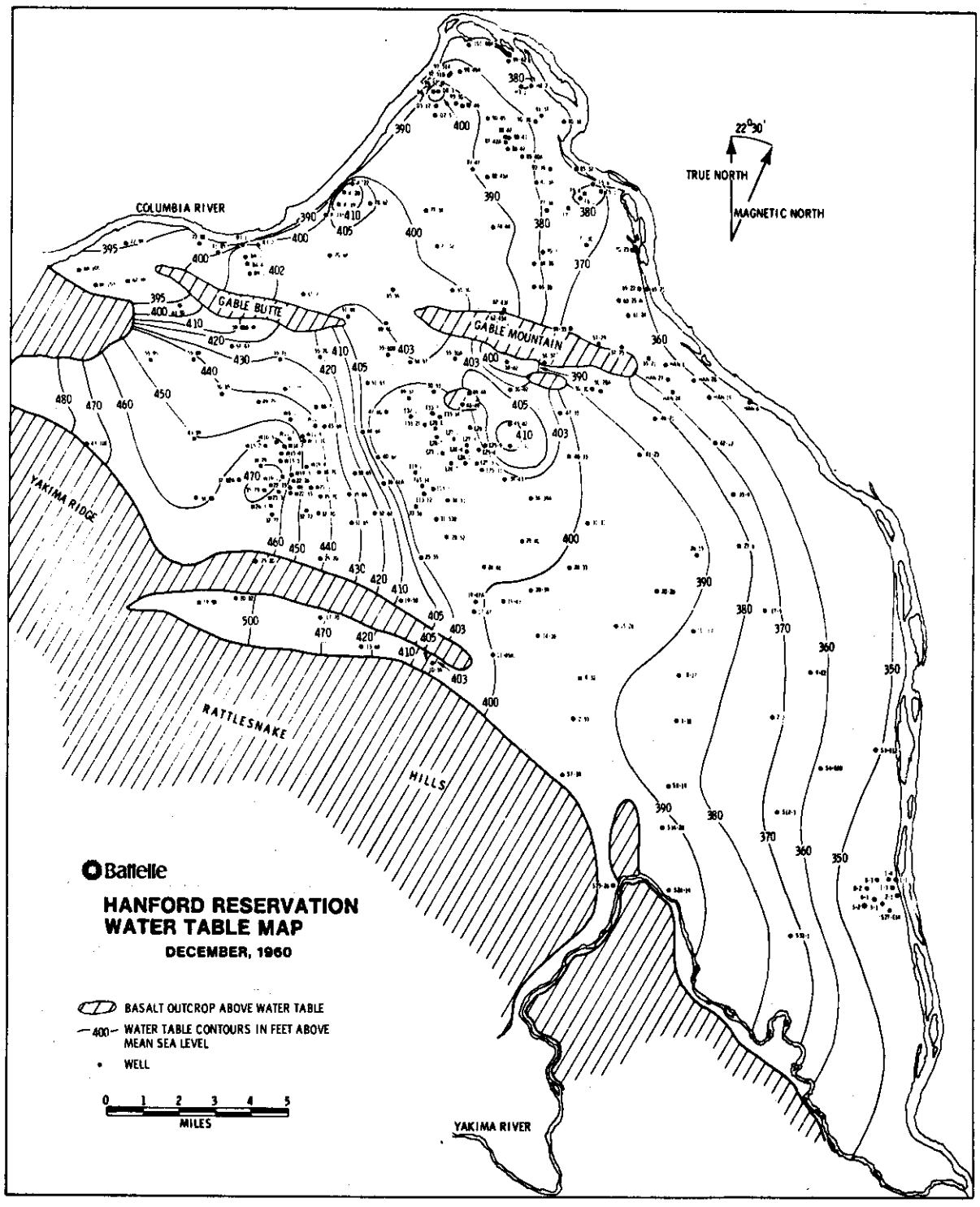

Battelle
HANFORD RESERVATION
WATER TABLE MAP
DECEMBER, 1960
BASALT OUTCROP ABOVE WATER TABLE
400 WATER TABLE CONTOURS IN FEET ABOVE MEAN SEA LEVEL
WELL
0 1 2 3 4 5
MILES
TRUE NORTH
MAGNETIC NORTH
22°30'
COLUMBIA RIVER
GABLE BUTTE
GABLE MOUNTAIN
YAKIMA RIDGE
RATTLESNAKE HILLS
YAKIMA RIVER

FIGURE 8

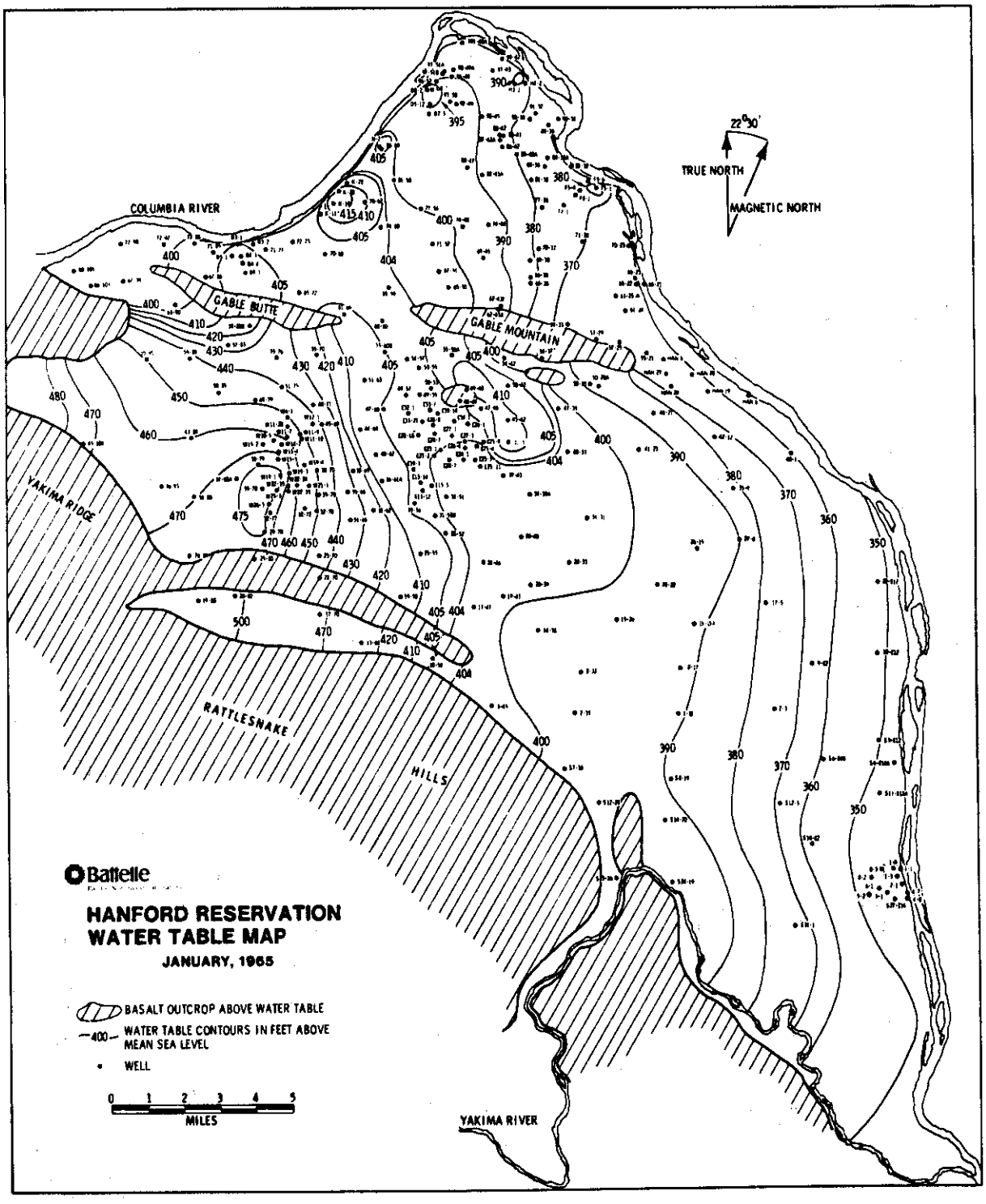

COLUMBIA RIVER
GABLE BUTTE
GABLE MOUNTAIN
YAKIMA RIDGE
RATTLESNAKE
HILLS
YAKIMA RIVER
22°30'
TRUE NORTH
MAGNETIC NORTH
Battelle
HANFORD RESERVATION
WATER TABLE MAP
JANUARY, 1965
BASALT OUTCROP ABOVE WATER TABLE
400 WATER TABLE CONTOURS IN FEET ABOVE MEAN SEA LEVEL
WELL
0 1 2 3 4 5
MILES

FIGURE 9

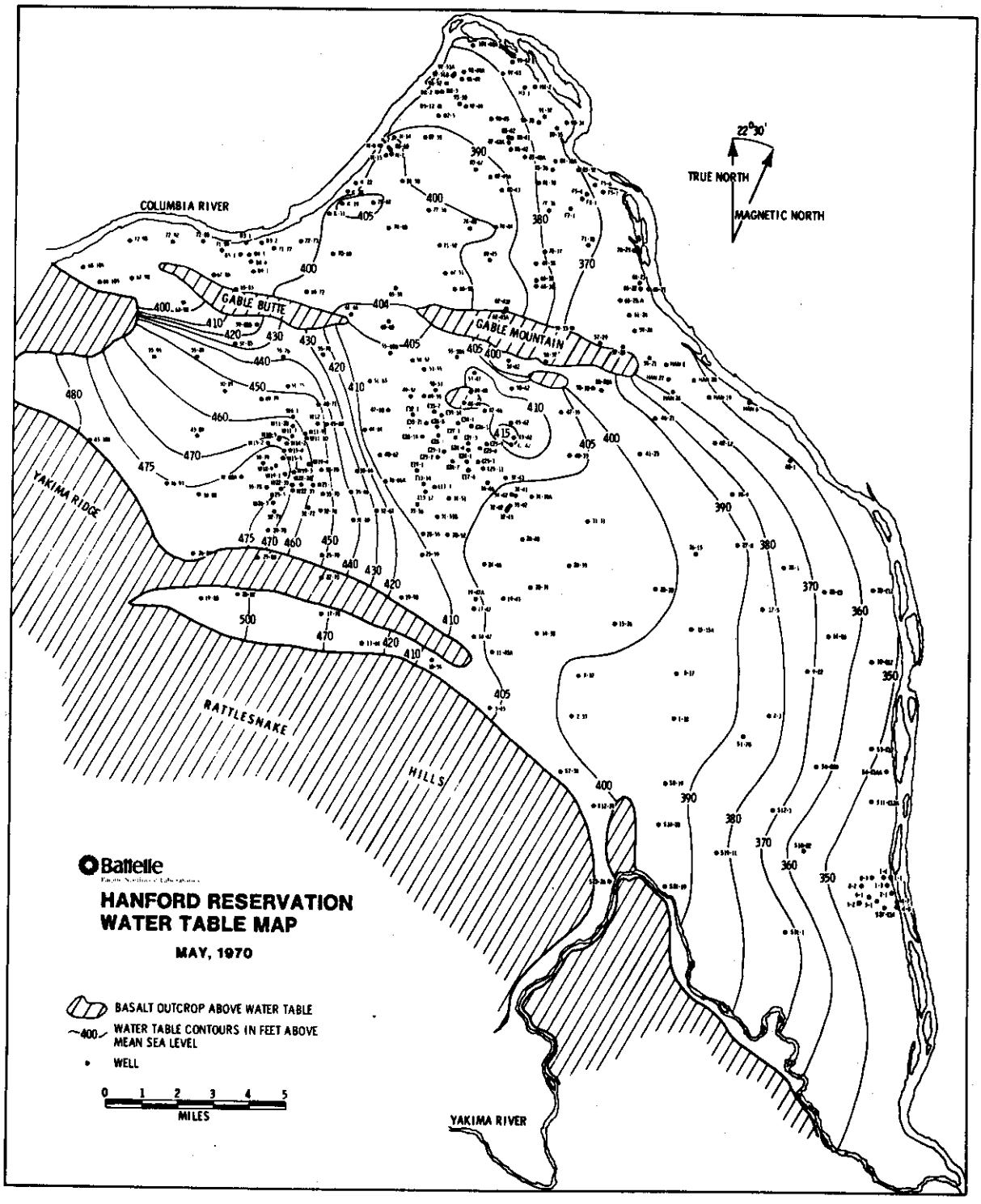

COLUMBIA RIVER
GABLE BUTTE
GABLE MOUNTAIN
YAKIMA RIDGE
RATTLESNAKE
HILLS
YAKIMA RIVER
TRUE NORTH
MAGNETIC NORTH
22°30'
Battelle
HANFORD RESERVATION
WATER TABLE MAP
MAY, 1970
BASALT OUTCROP ABOVE WATER TABLE
400 WATER TABLE CONTOURS IN FEET ABOVE MEAN SEA LEVEL
WELL
0 1 2 3 4 5
MILES

FIGURE 10

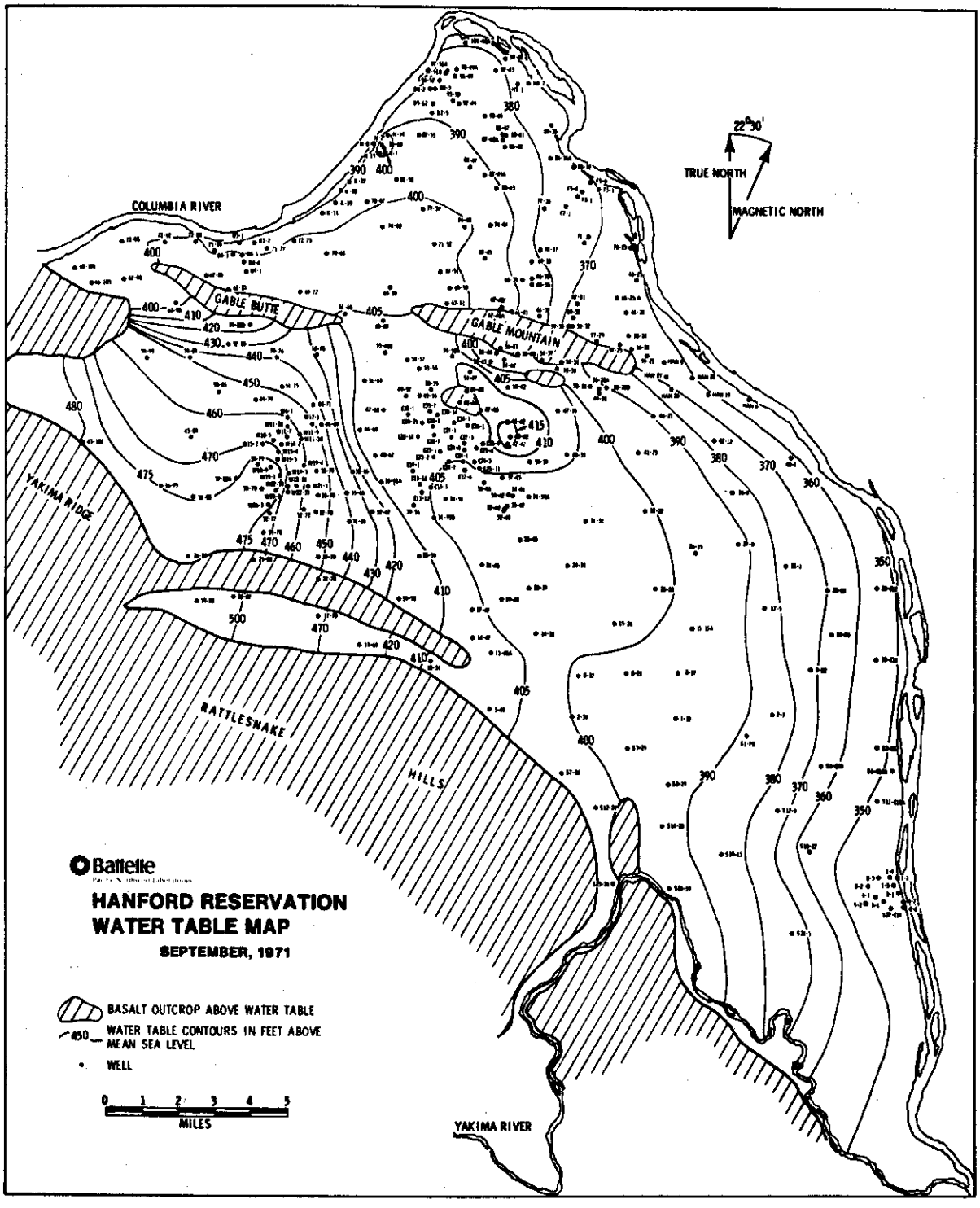

COLUMBIA RIVER
GABLE BUTTE
GABLE MOUNTAIN
YAKIMA RIDGE
RATTLESNAKE
HILLS
YAKIMA RIVER
TRUE NORTH
MAGNETIC NORTH
22°30'
Battelle
HANFORD RESERVATION
WATER TABLE MAP
SEPTEMBER, 1971
BASALT OUTCROP ABOVE WATER TABLE
450 WATER TABLE CONTOURS IN FEET ABOVE MEAN SEA LEVEL
WELL
0 1 2 3 4 5
MILES

FIGURE 11

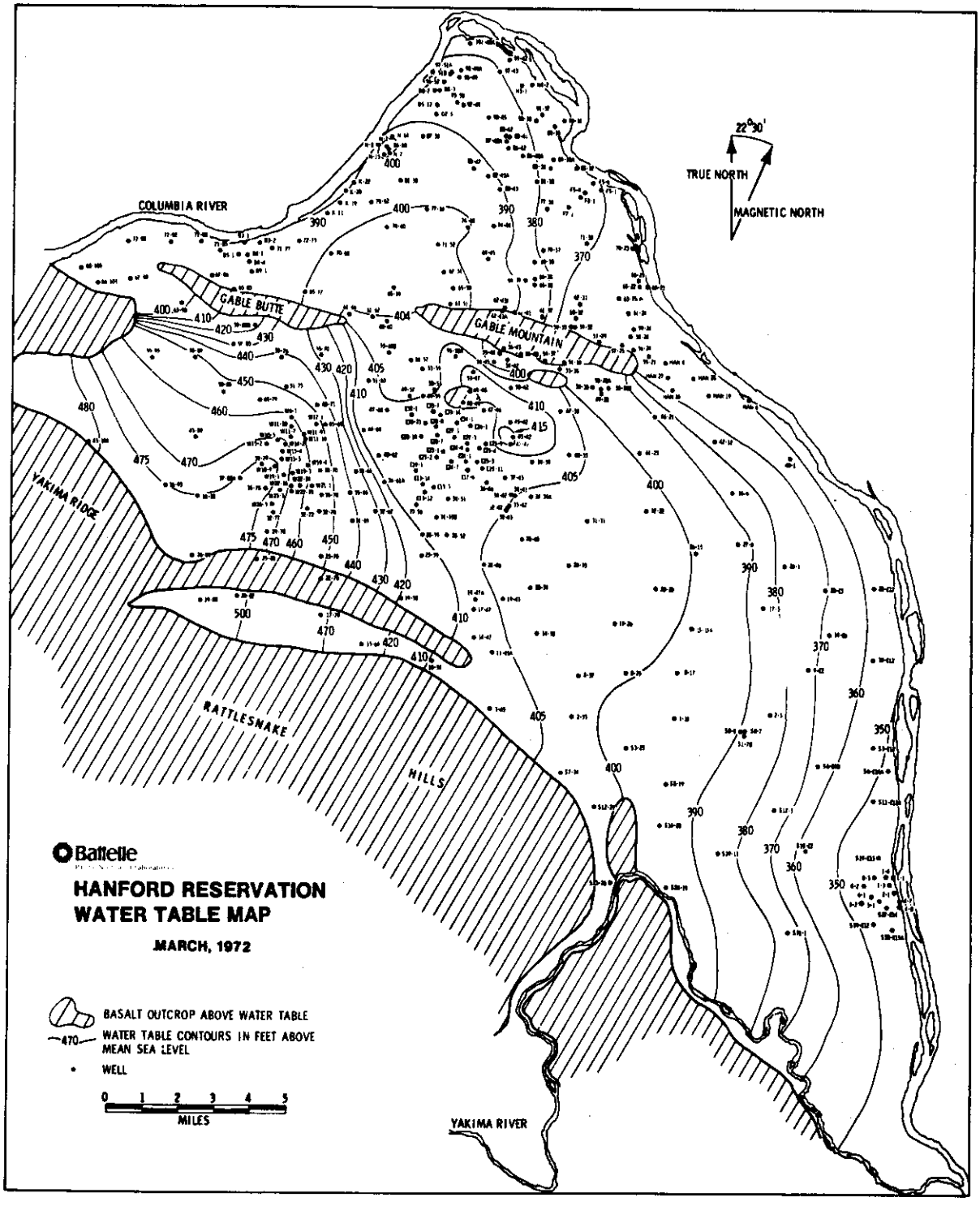

COLUMBIA RIVER
GABLE BUTTE
GABLE MOUNTAIN
YAKIMA RIDGE
RATTLESNAKE HILLS
YAKIMA RIVER
TRUE NORTH
MAGNETIC NORTH
22°30'
Battelle
HANFORD RESERVATION
WATER TABLE MAP
MARCH, 1972
BASALT OUTCROP ABOVE WATER TABLE
470 WATER TABLE CONTOURS IN FEET ABOVE MEAN SEA LEVEL
WELL
0 1 2 3 4 5
MILES

FIGURE 12

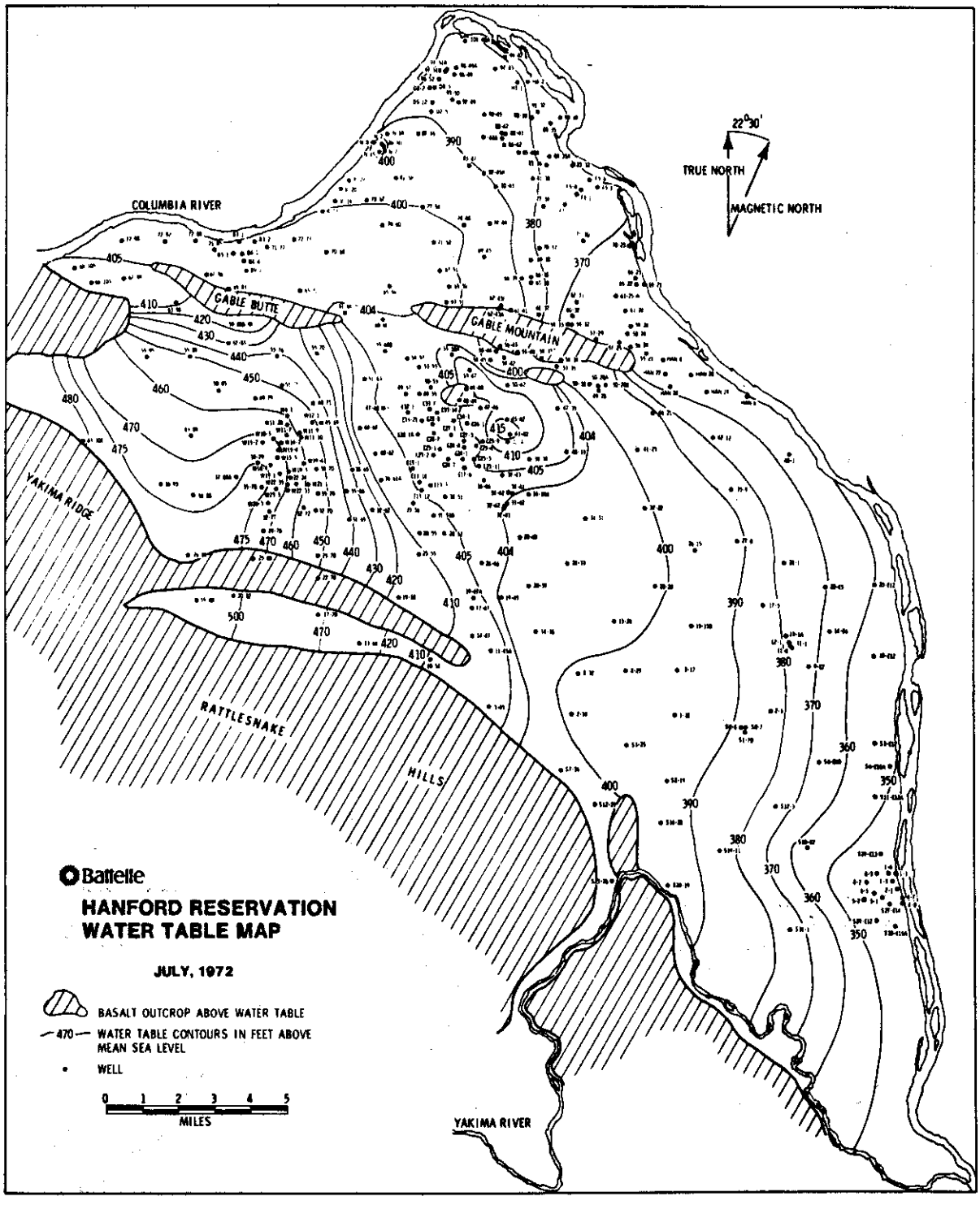

COLUMBIA RIVER
GABLE BUTTE
GABLE MOUNTAIN
YAKIMA RIDGE
RATTLESNAKE
HILLS
YAKIMA RIVER
22°30'
TRUE NORTH
MAGNETIC NORTH
Battelle
HANFORD RESERVATION
WATER TABLE MAP
JULY, 1972
BASALT OUTCROP ABOVE WATER TABLE
470 WATER TABLE CONTOURS IN FEET ABOVE MEAN SEA LEVEL
WELL
0 1 2 3 4 5
MILES

FIGURE 13

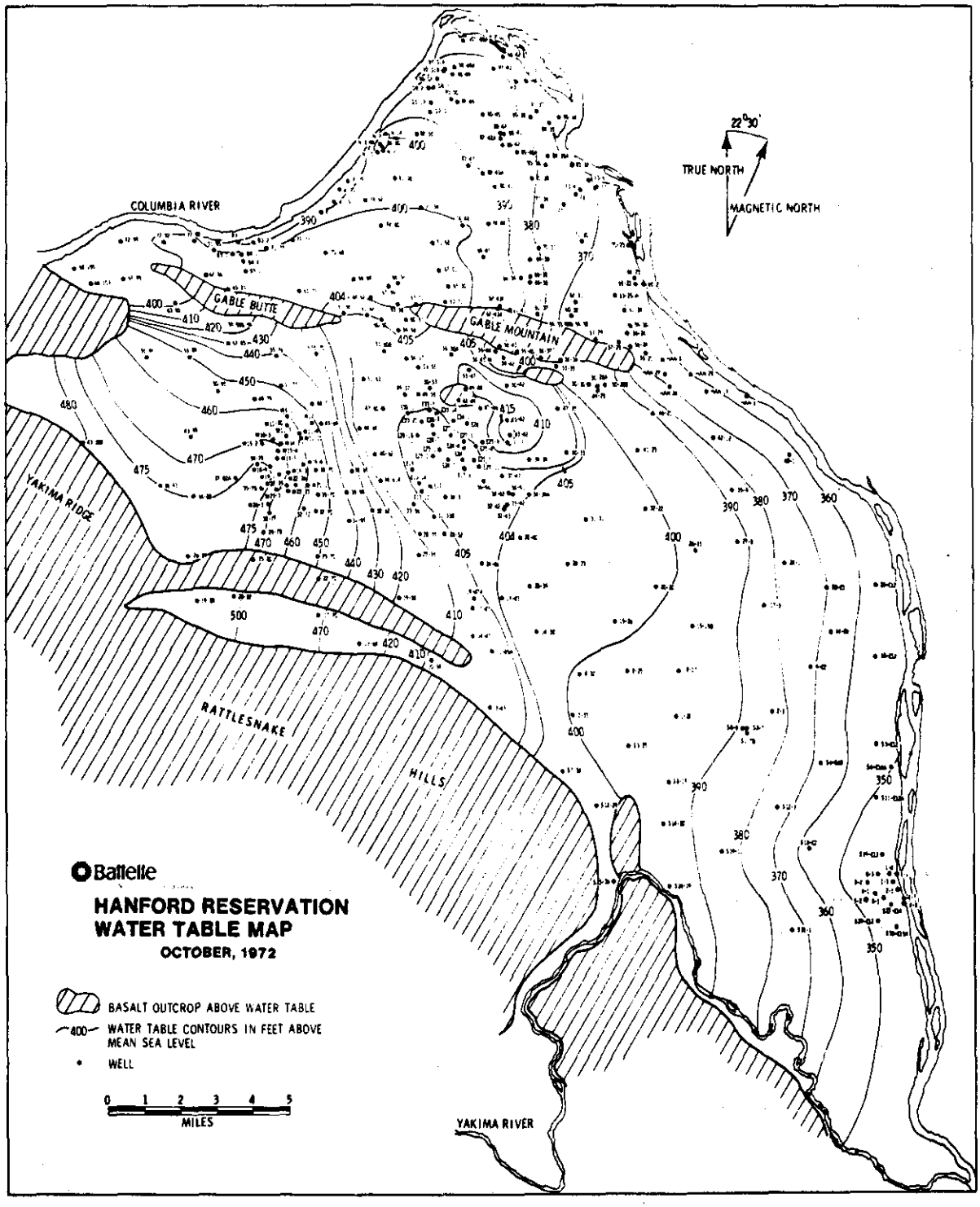

Battelle
HANFORD RESERVATION
WATER TABLE MAP
OCTOBER, 1972
BASALT OUTCROP ABOVE WATER TABLE
400 WATER TABLE CONTOURS IN FEET ABOVE MEAN SEA LEVEL
WELL
0 1 2 3 4 5
MILES
COLUMBIA RIVER
GABLE BUTTE
GABLE MOUNTAIN
YAKIMA RIDGE
RATTLESNAKE HILLS
YAKIMA RIVER
TRUE NORTH
MAGNETIC NORTH
22°30'

FIGURE 14

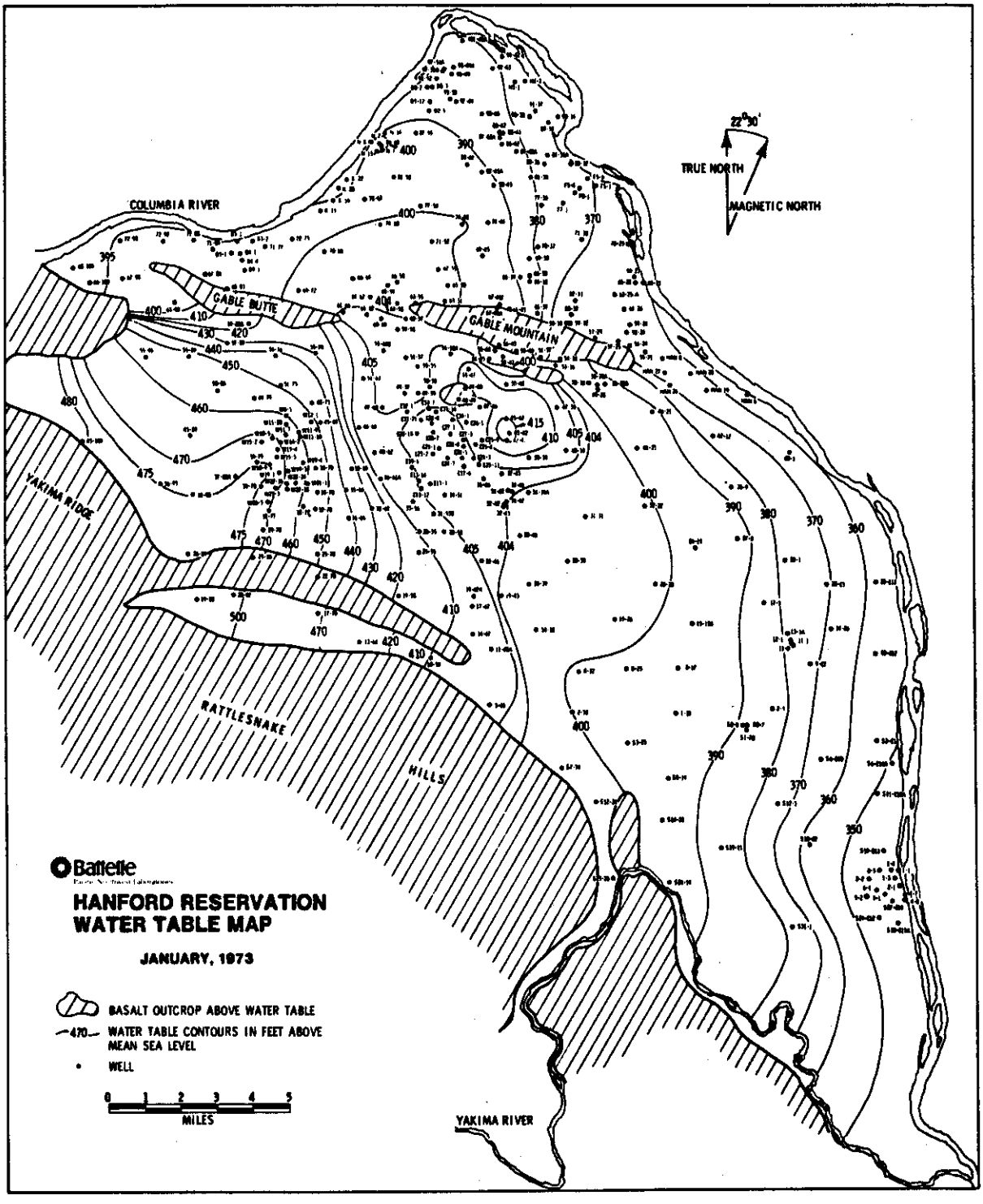
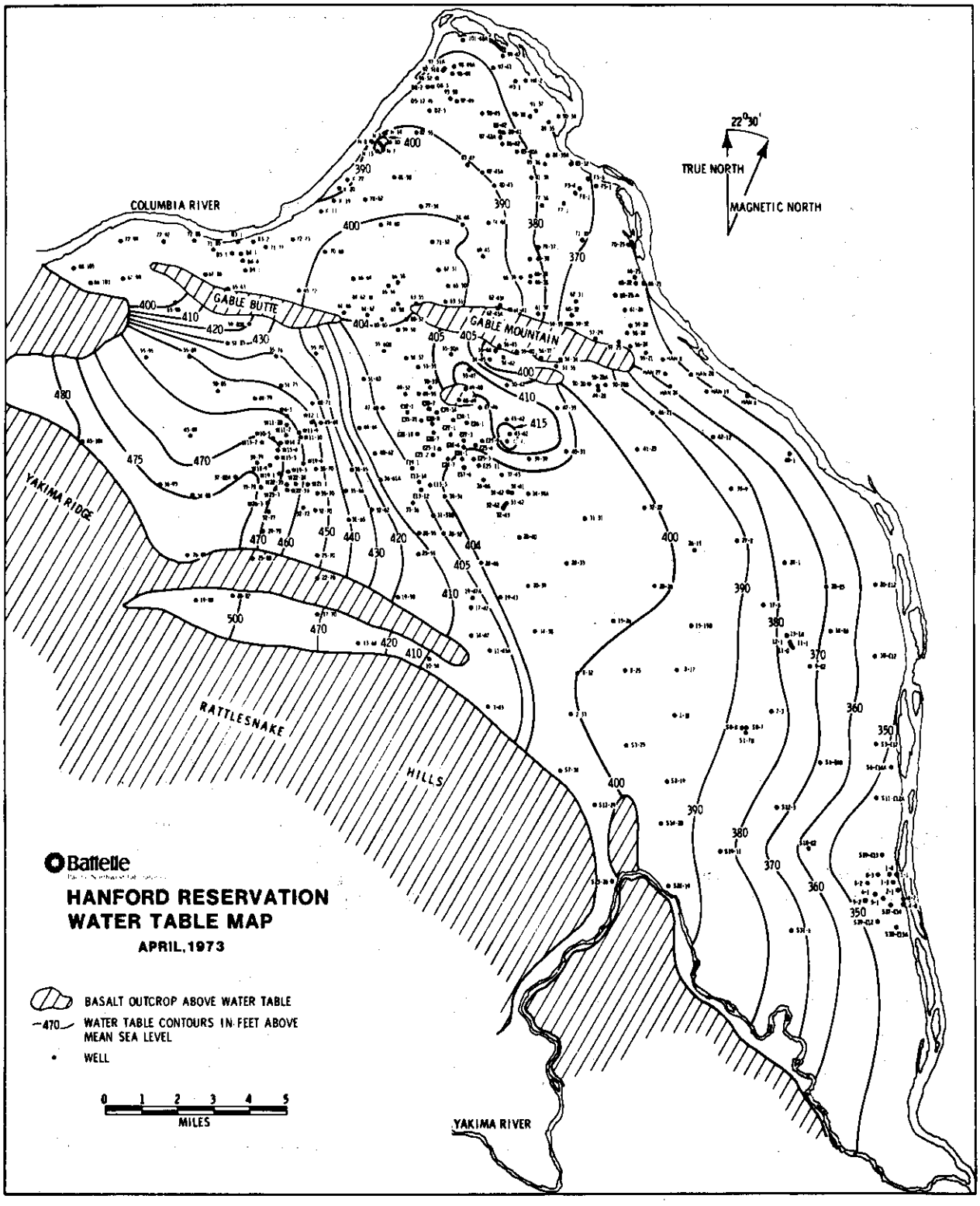
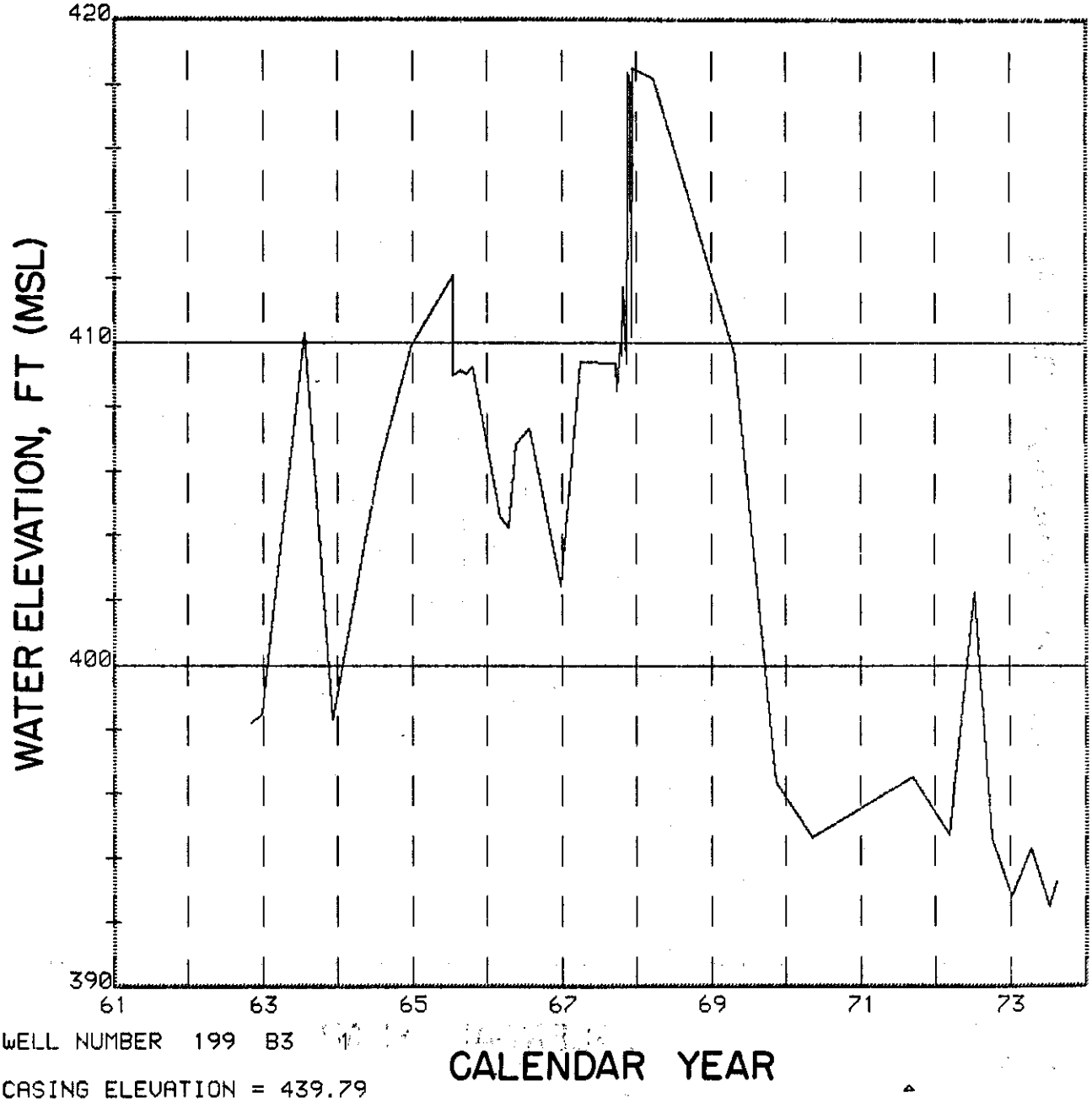

COLUMBIA RIVER
GABLE BUTTE
GABLE MOUNTAIN
YAKIMA RIDGE
RATTLESNAKE
HILLS
YAKIMA RIVER
TRUE NORTH
MAGNETIC NORTH
22°30'
Battelle
HANFORD RESERVATION
WATER TABLE MAP
JANUARY, 1973
BASALT OUTCROP ABOVE WATER TABLE
470 WATER TABLE CONTOURS IN FEET ABOVE MEAN SEA LEVEL
WELL
0 1 2 3 4 5
MILES

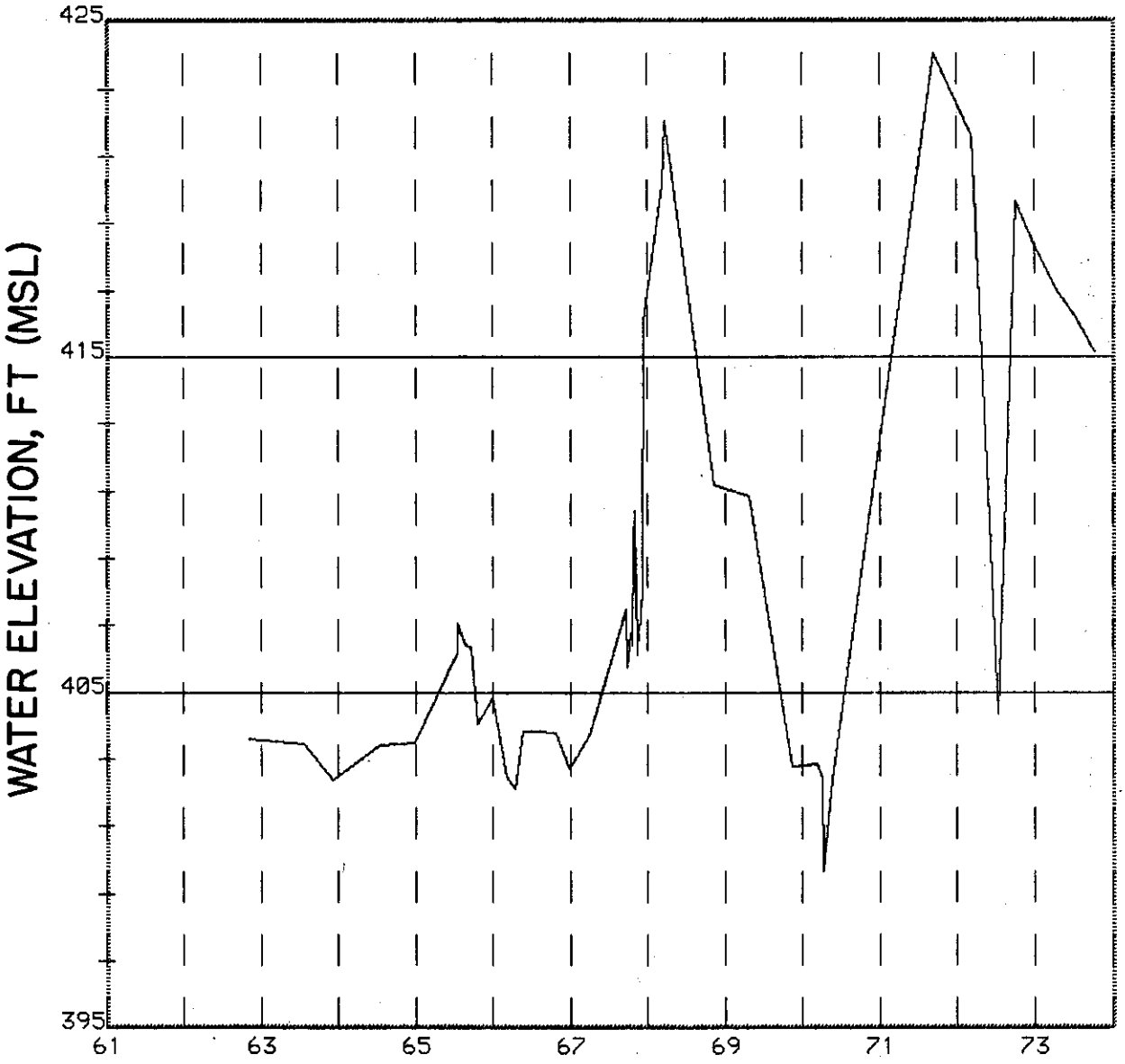
FIGURE 15


COLUMBIA RIVER
GABLE BUTTE
GABLE MOUNTAIN
YAKIMA RIDGE
RATTLESNAKE
HILLS
YAKIMA RIVER
22°30'
TRUE NORTH
MAGNETIC NORTH
Battelle
HANFORD RESERVATION
WATER TABLE MAP
APRIL, 1973
BASALT OUTCROP ABOVE WATER TABLE
470 WATER TABLE CONTOURS IN FEET ABOVE MEAN SEA LEVEL
WELL
0 1 2 3 4 5
MILES



WELL NUMBER 199 B3

CASING ELEVATION = 439.79



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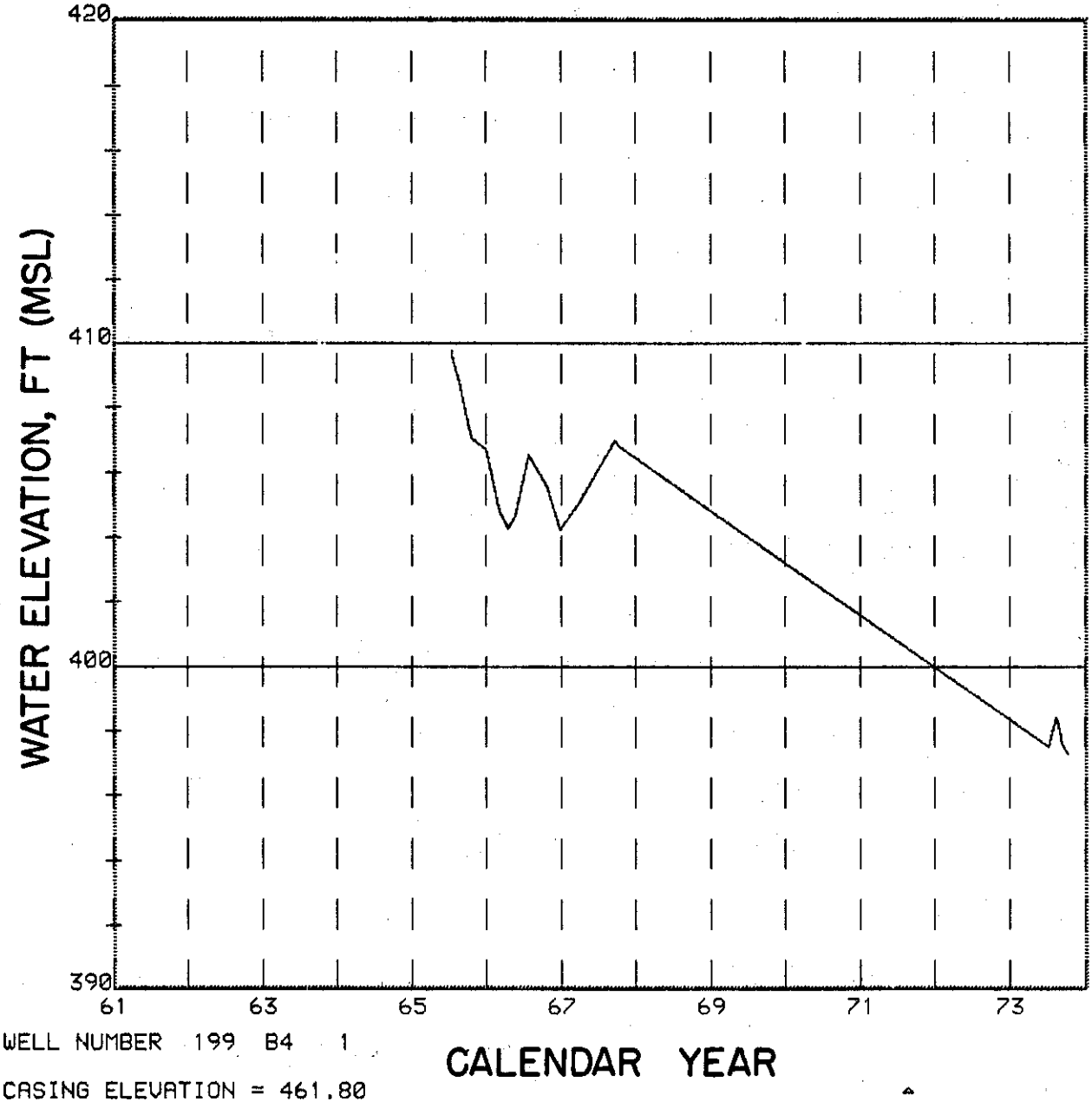

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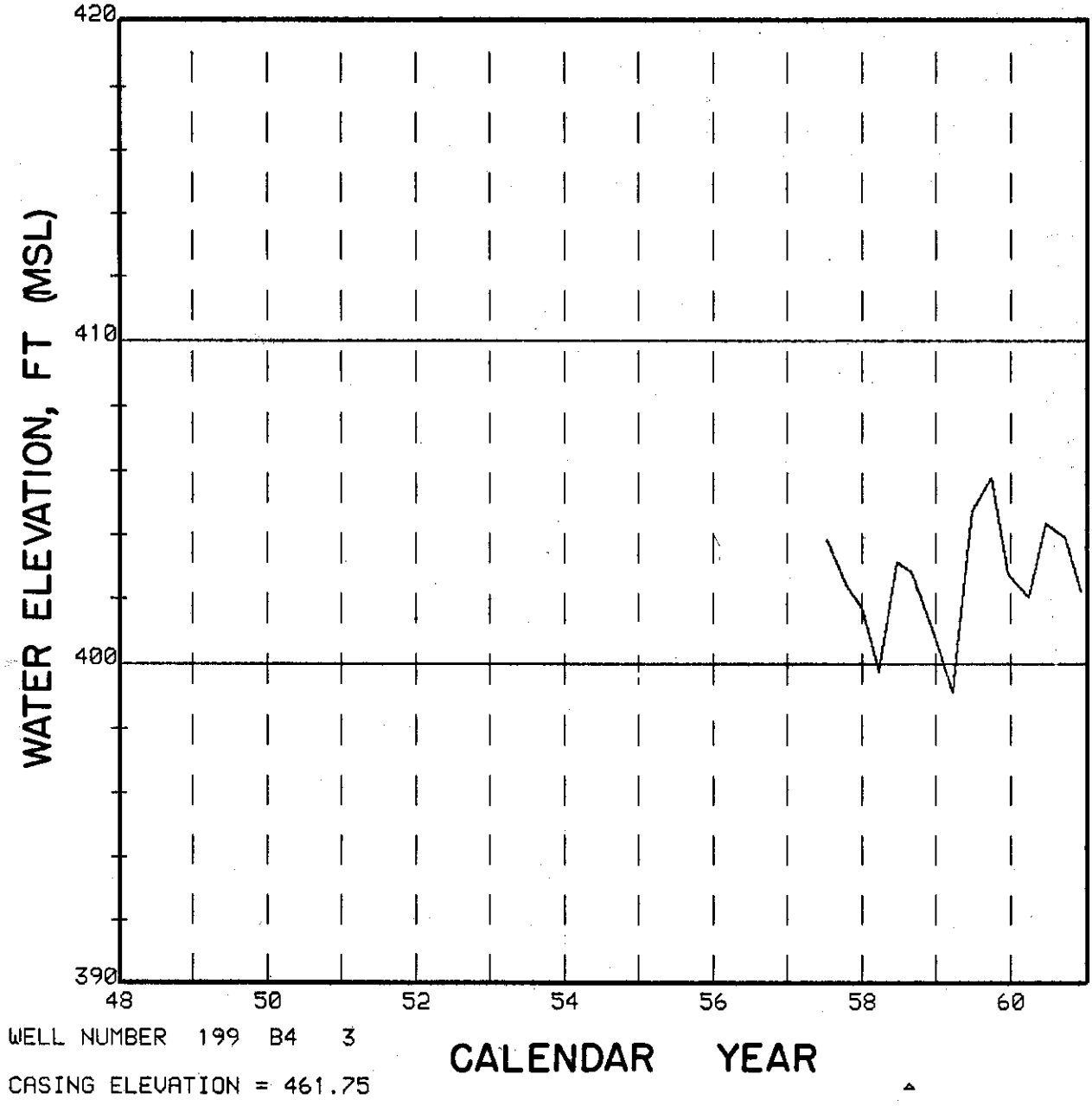
CASING ELEVATION = 461.80



WELL NUMBER 199 B4 3

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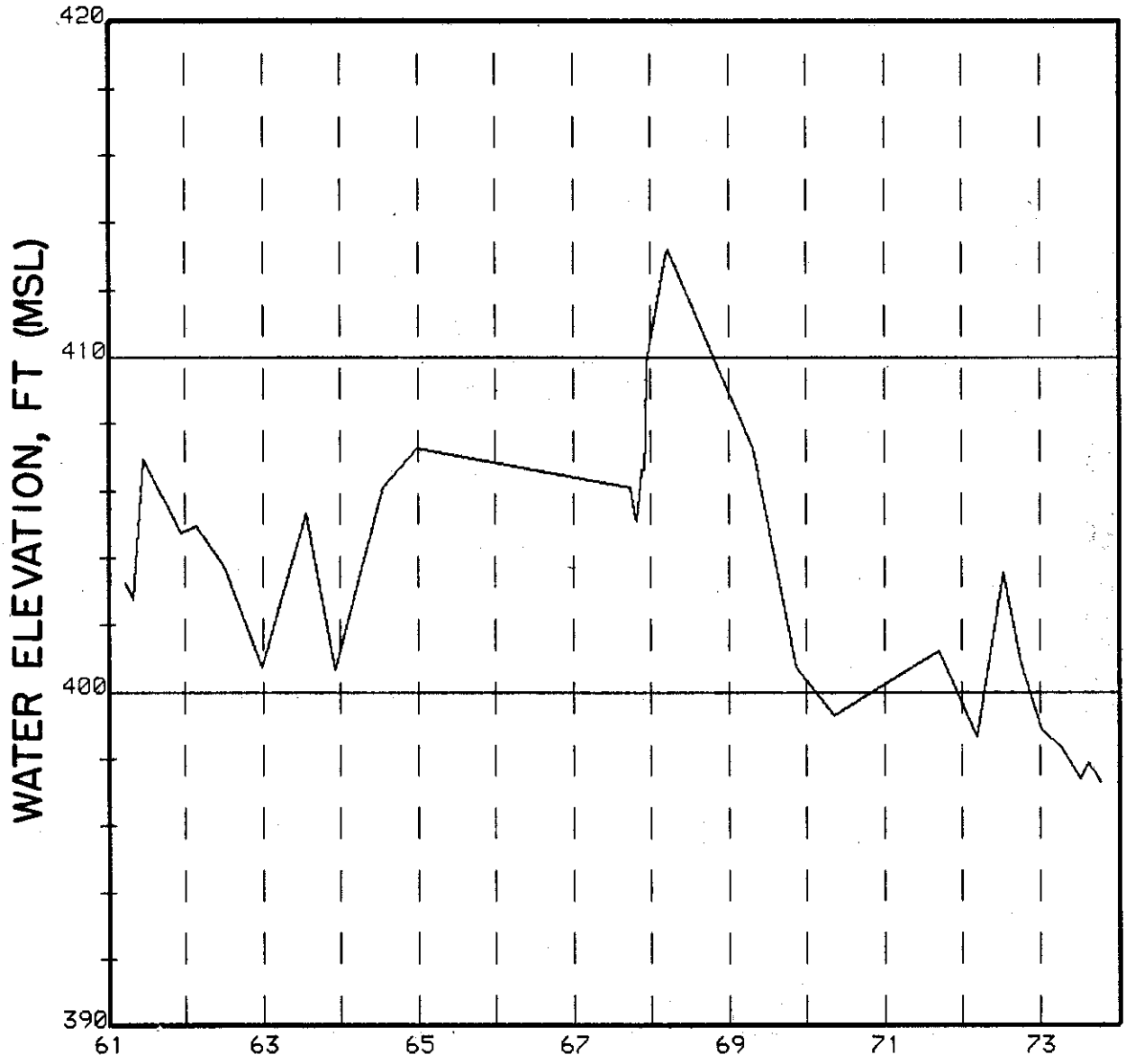
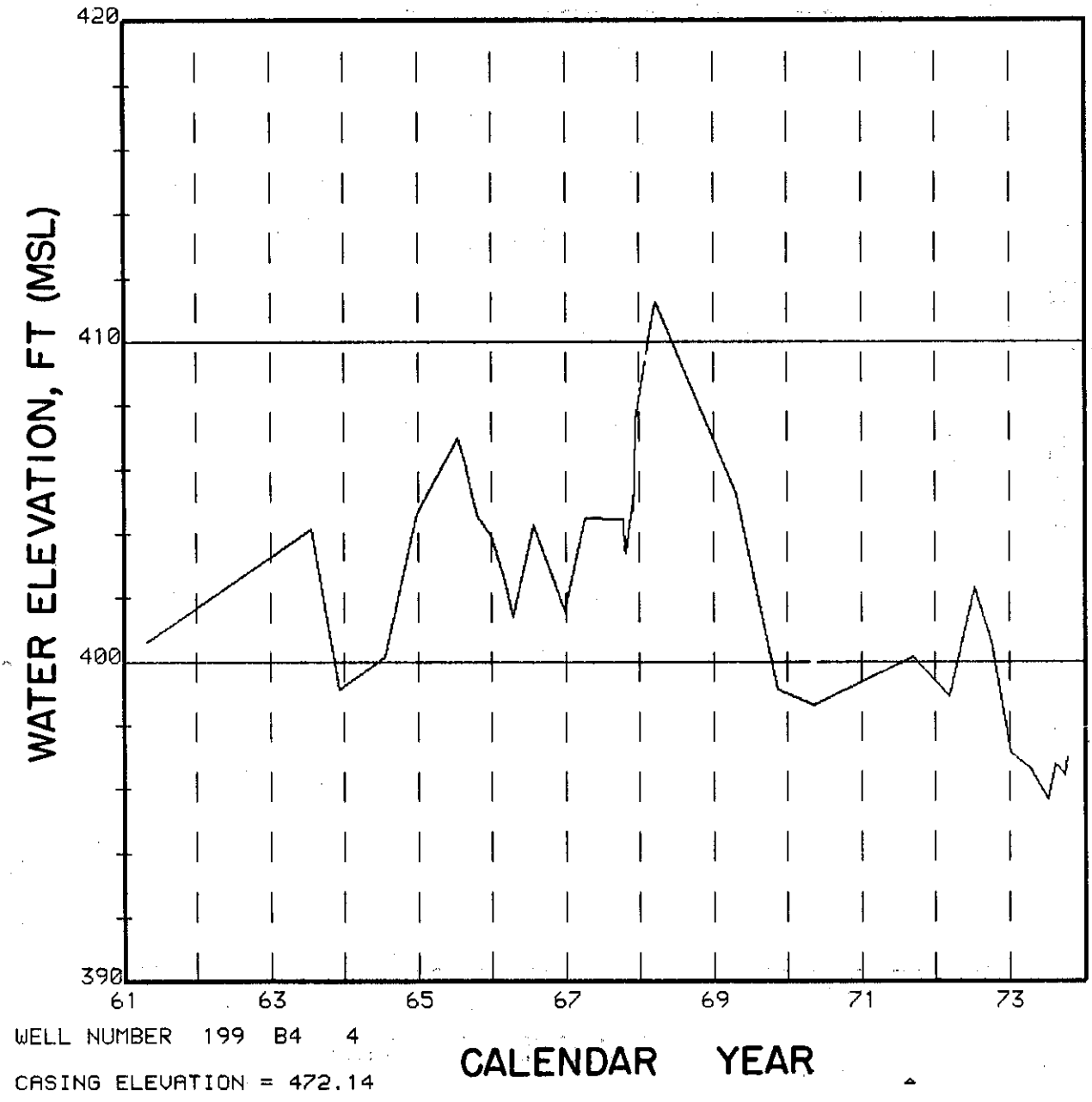


WELL NUMBER 199 B4 3

CASING ELEVATION = 461.75



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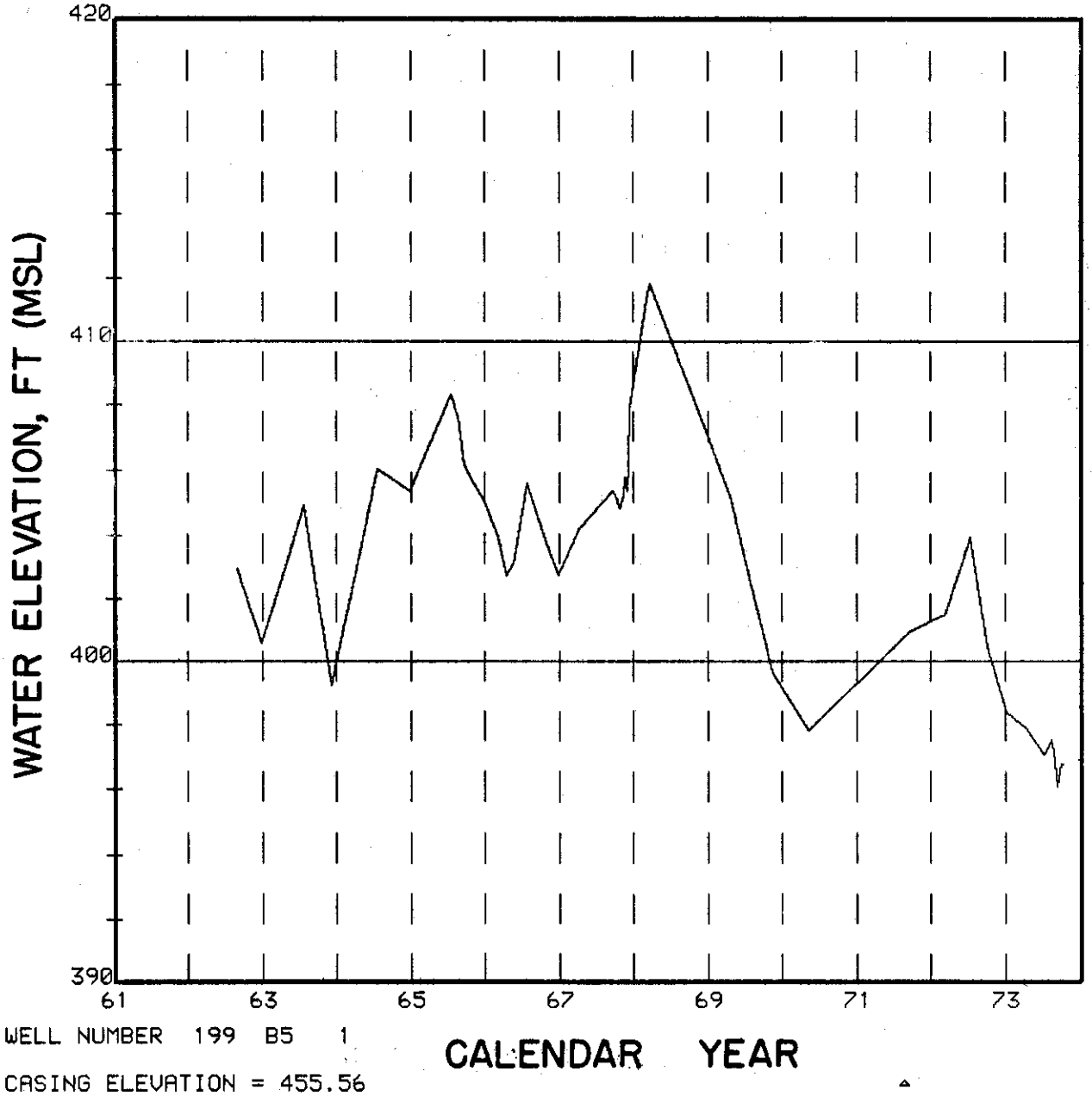
CASING ELEVATION = 472.14



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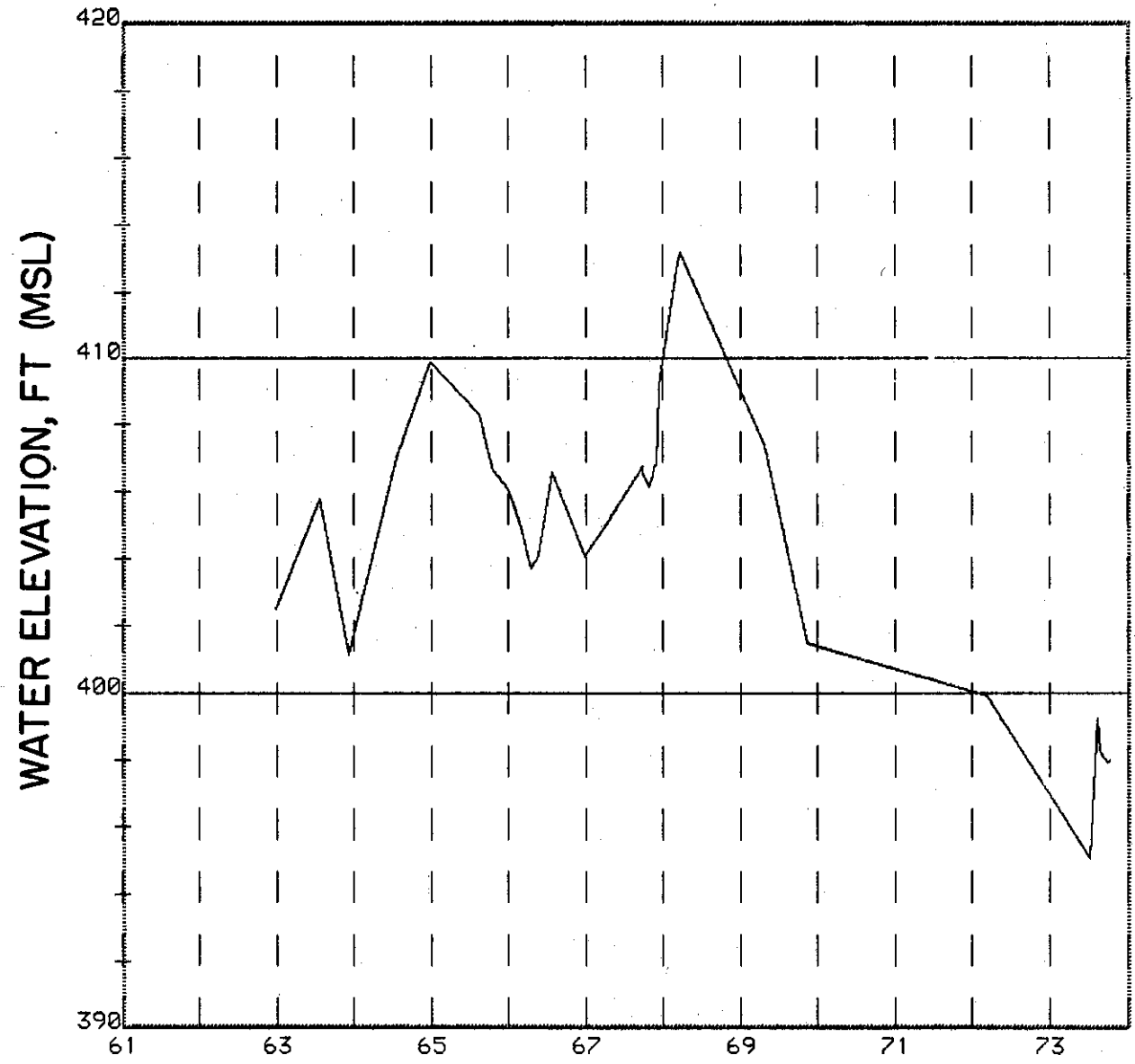
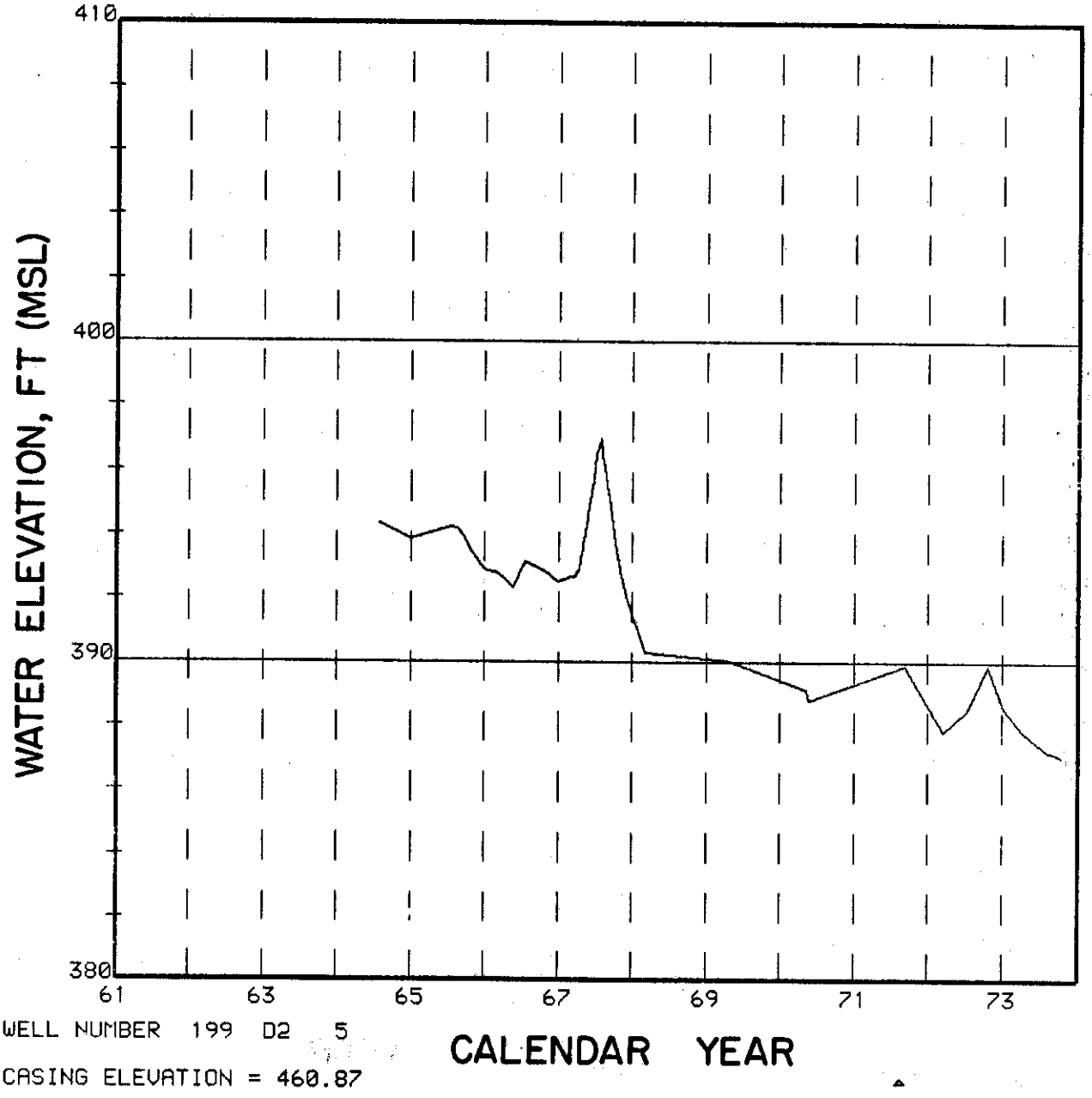
CASING ELEVATION = 455.56



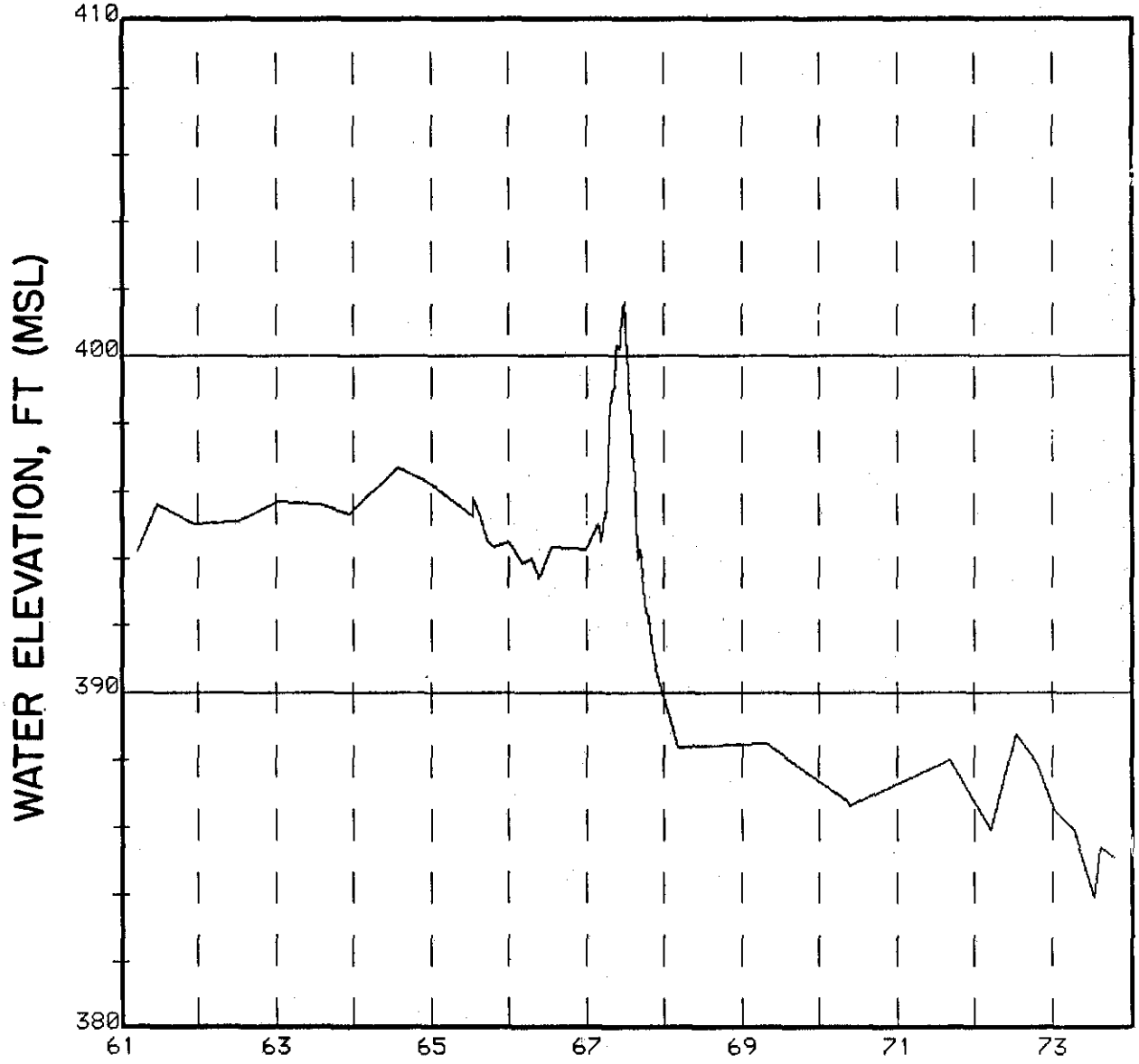
WELL NUMBER 199 B9 1

CASING ELEVATION = 478.87



WELL NUMBER 199 D2 5

CASING ELEVATION = 460.87



WELL NUMBER 199 D5 12

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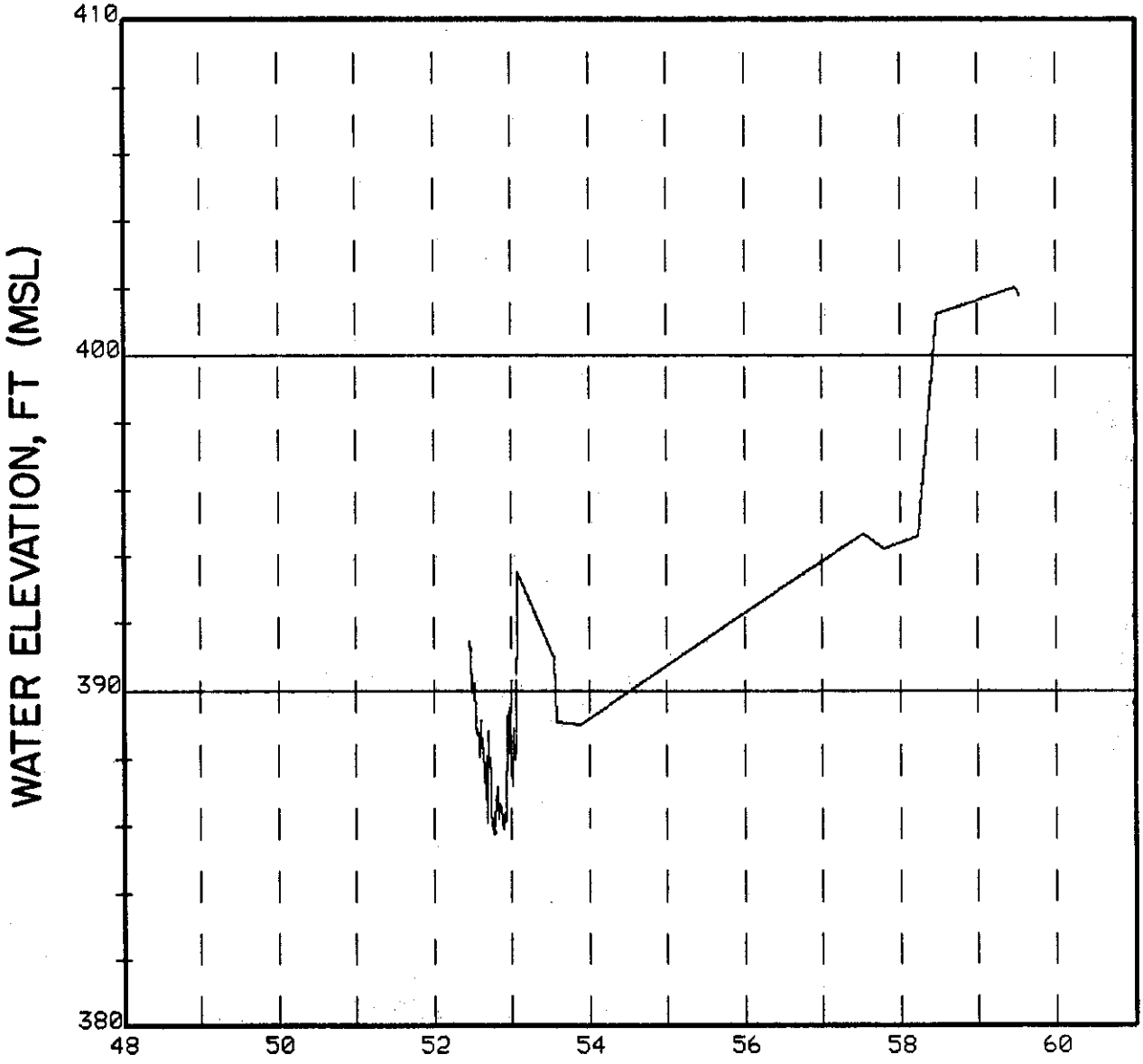

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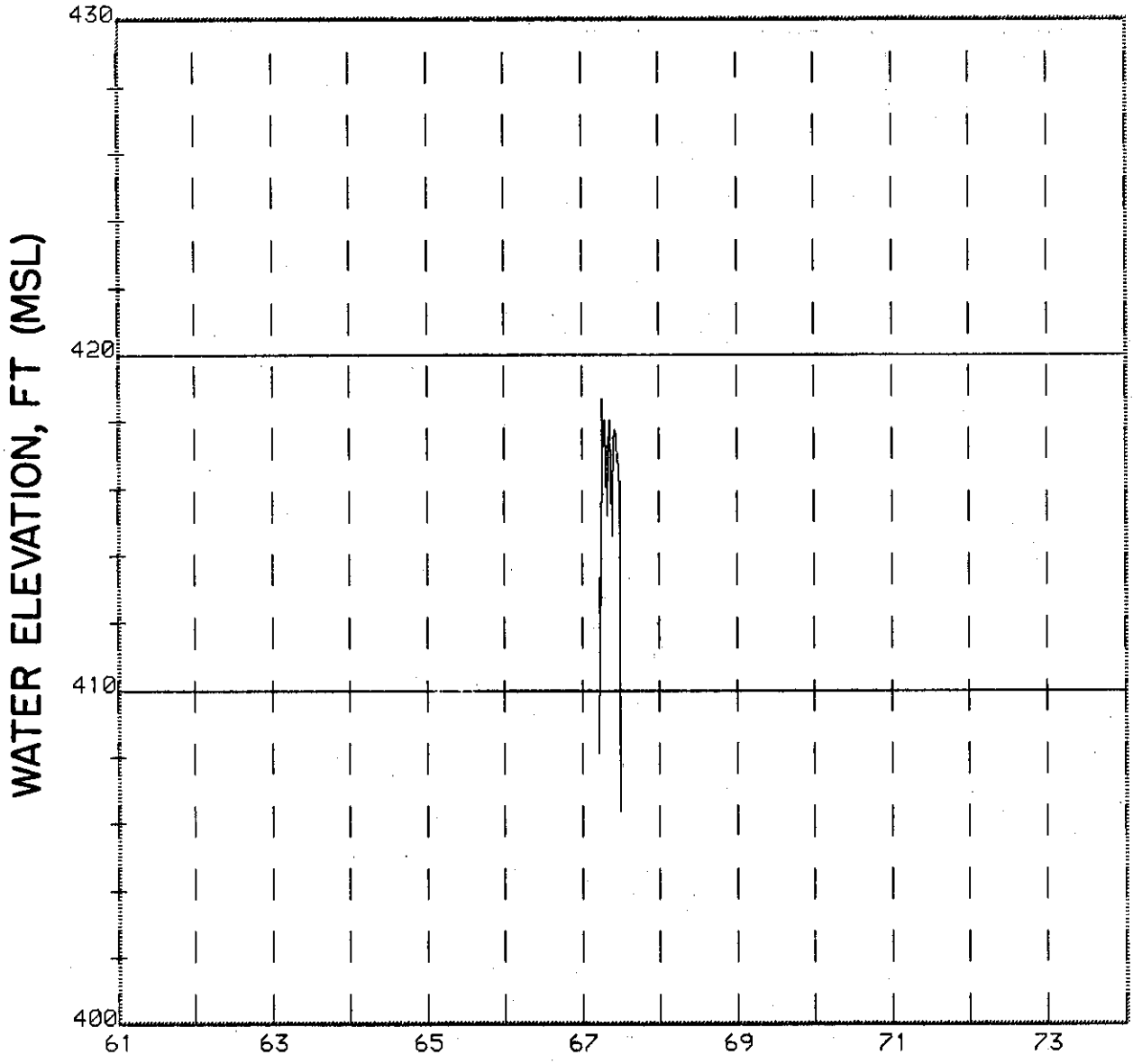

WELL NUMBER 199 D8 3

CASING ELEVATION = 449.06

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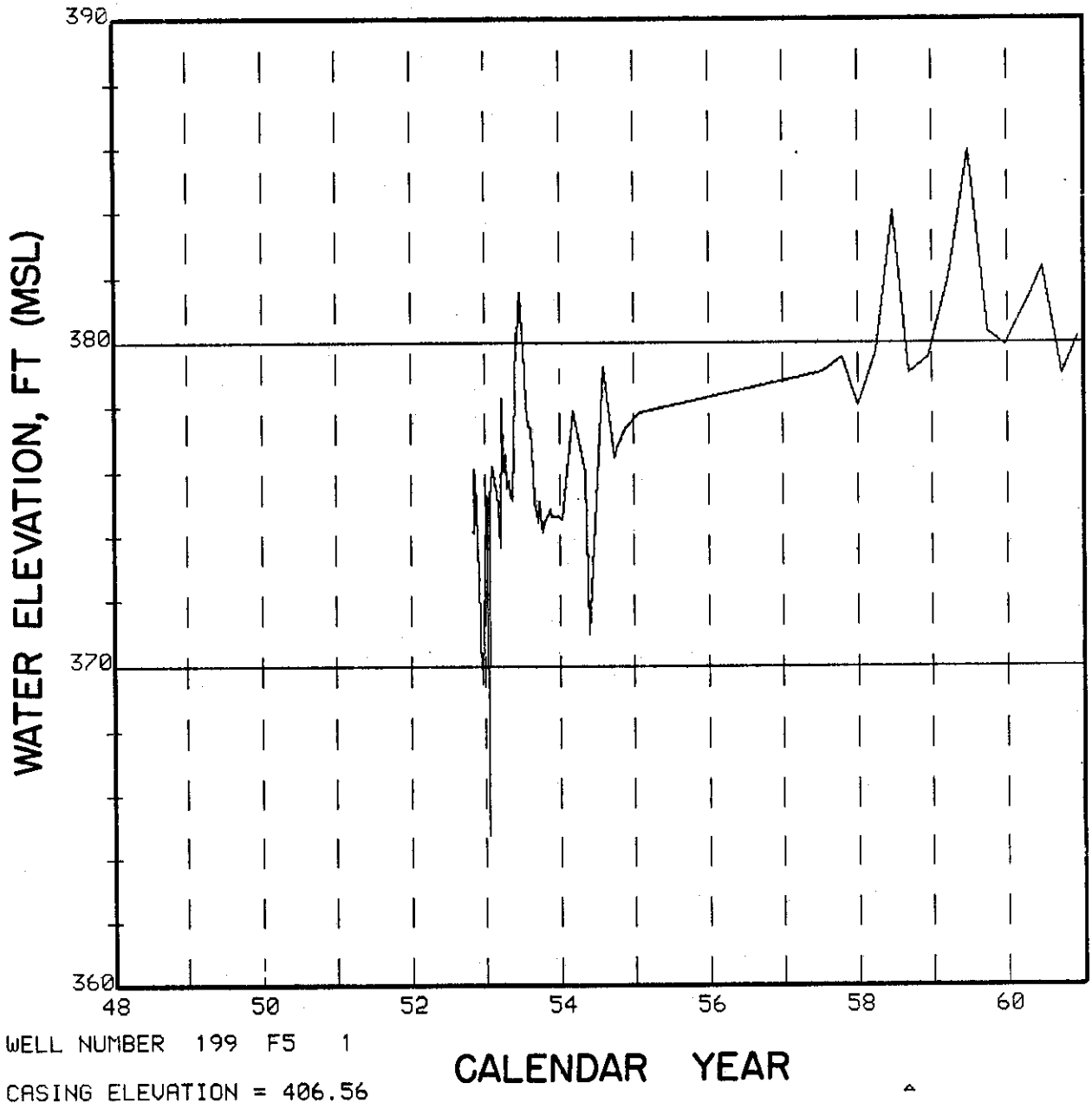

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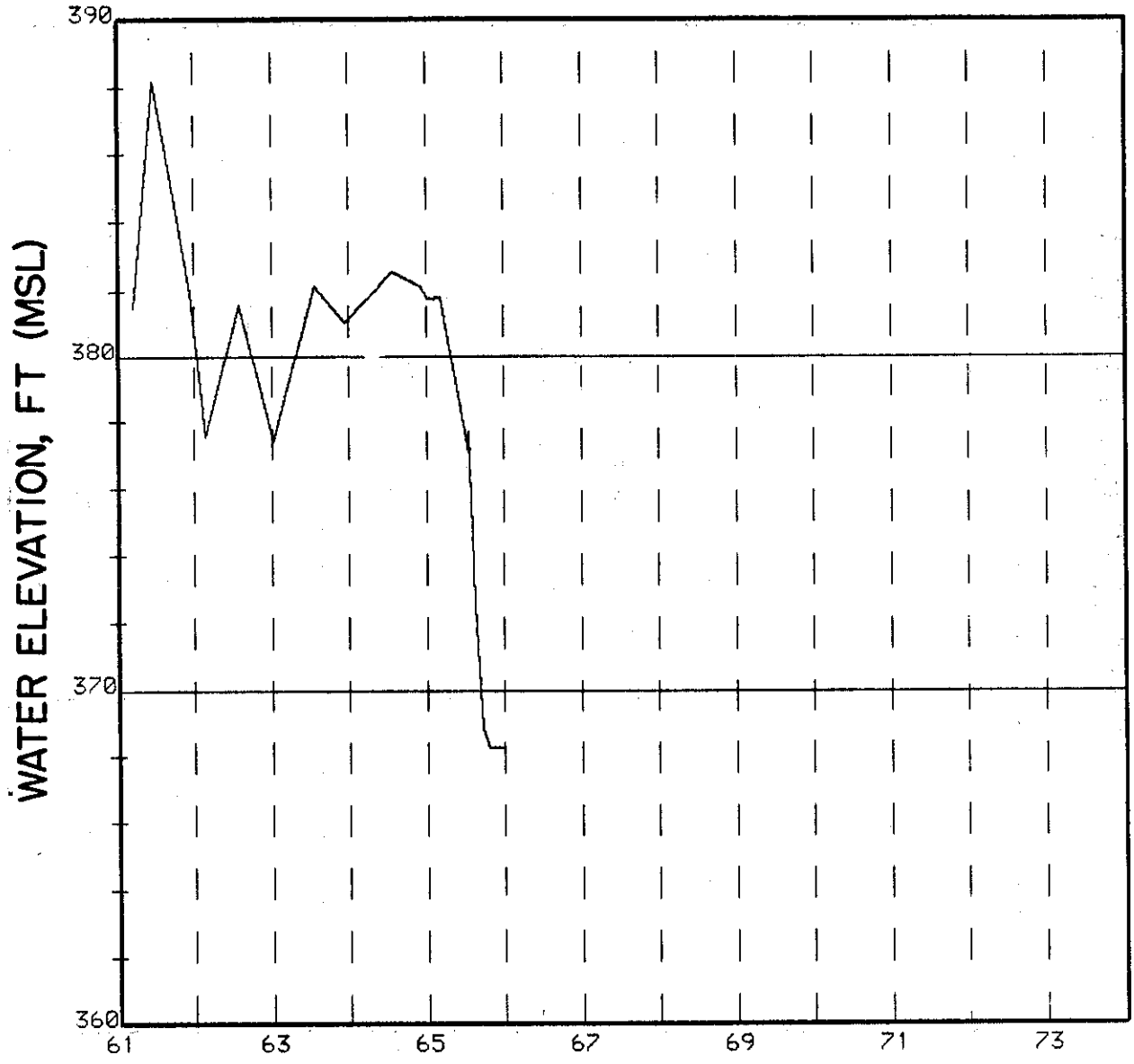

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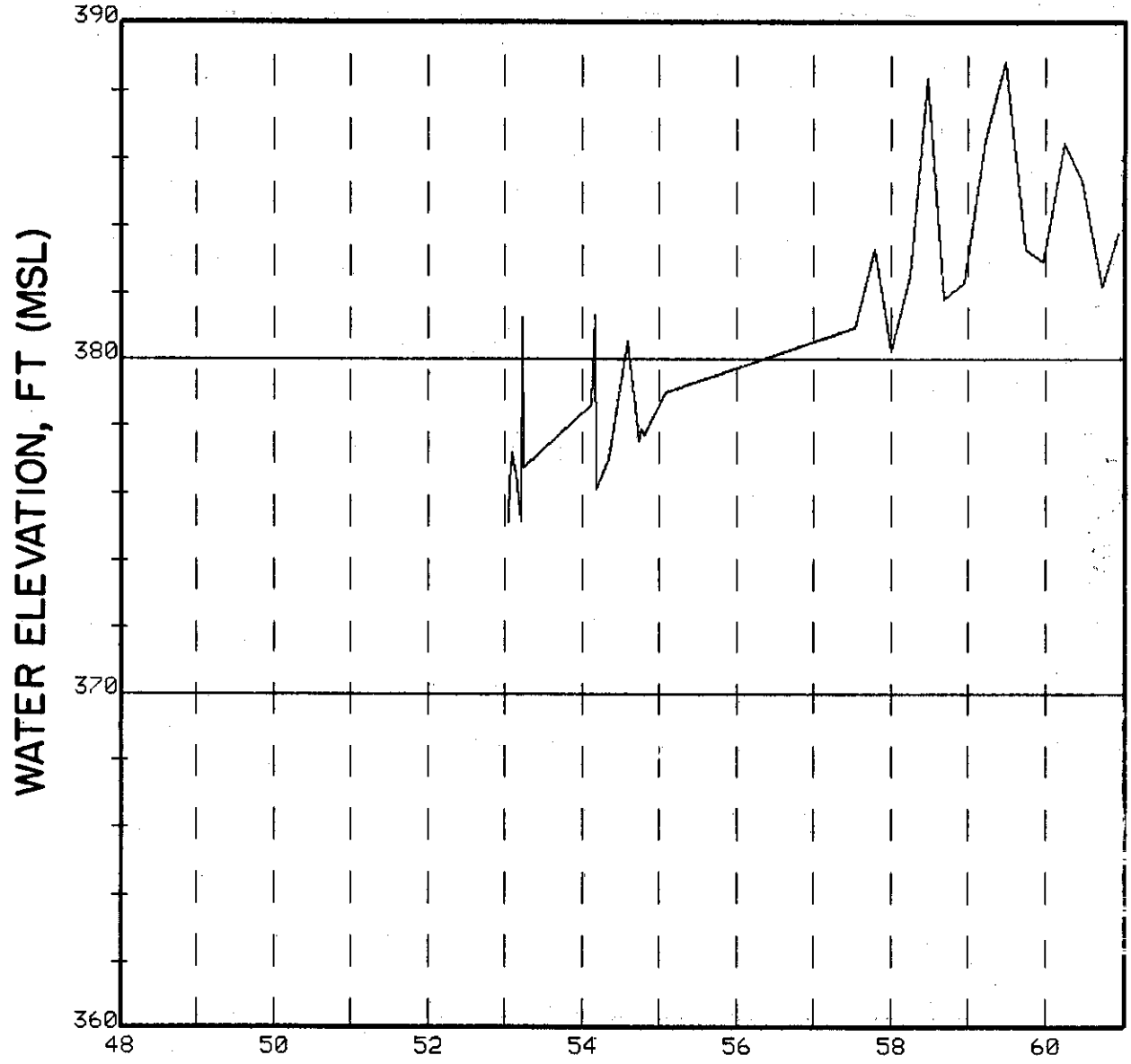

WELL NUMBER 199 F5 3

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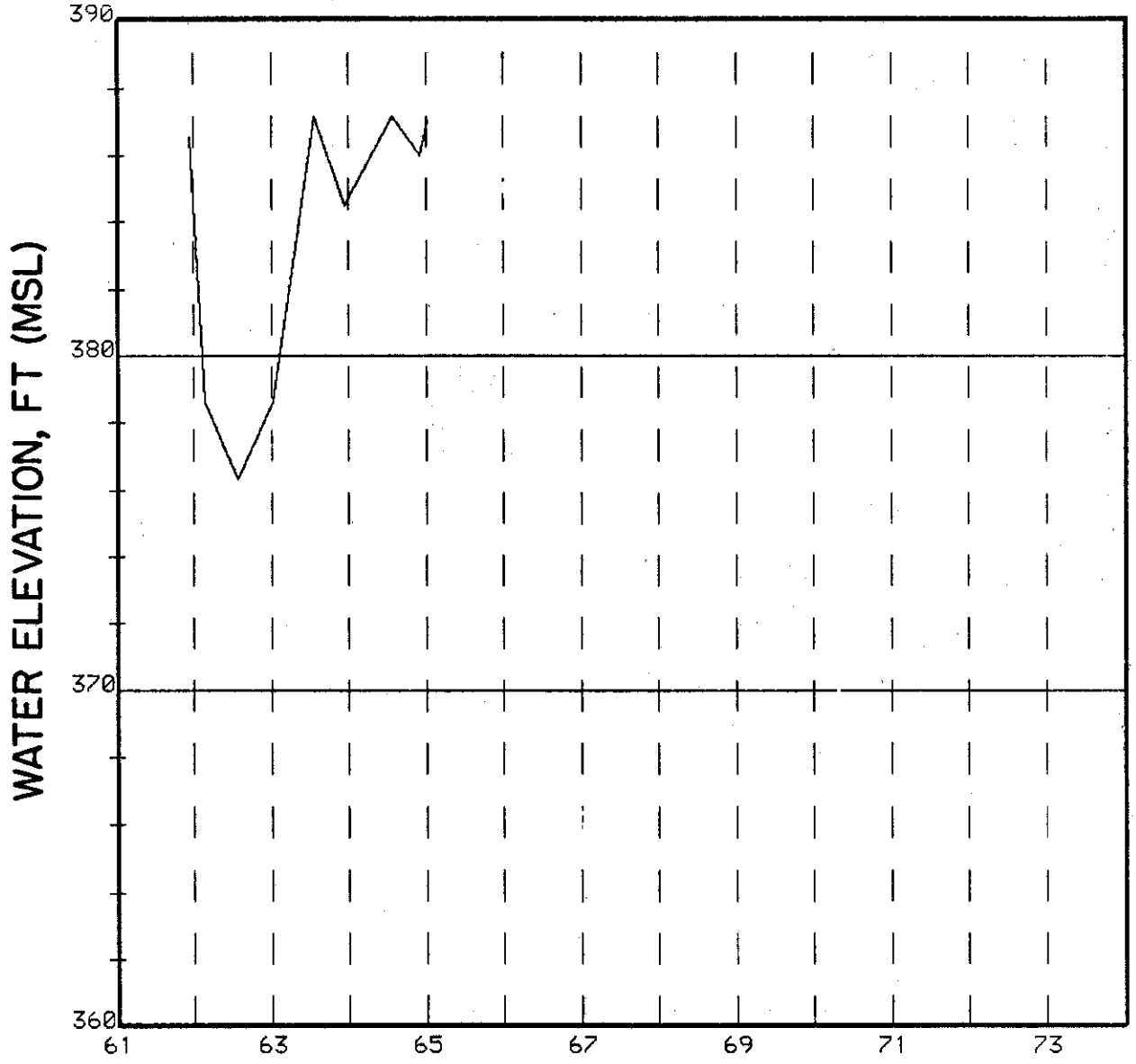
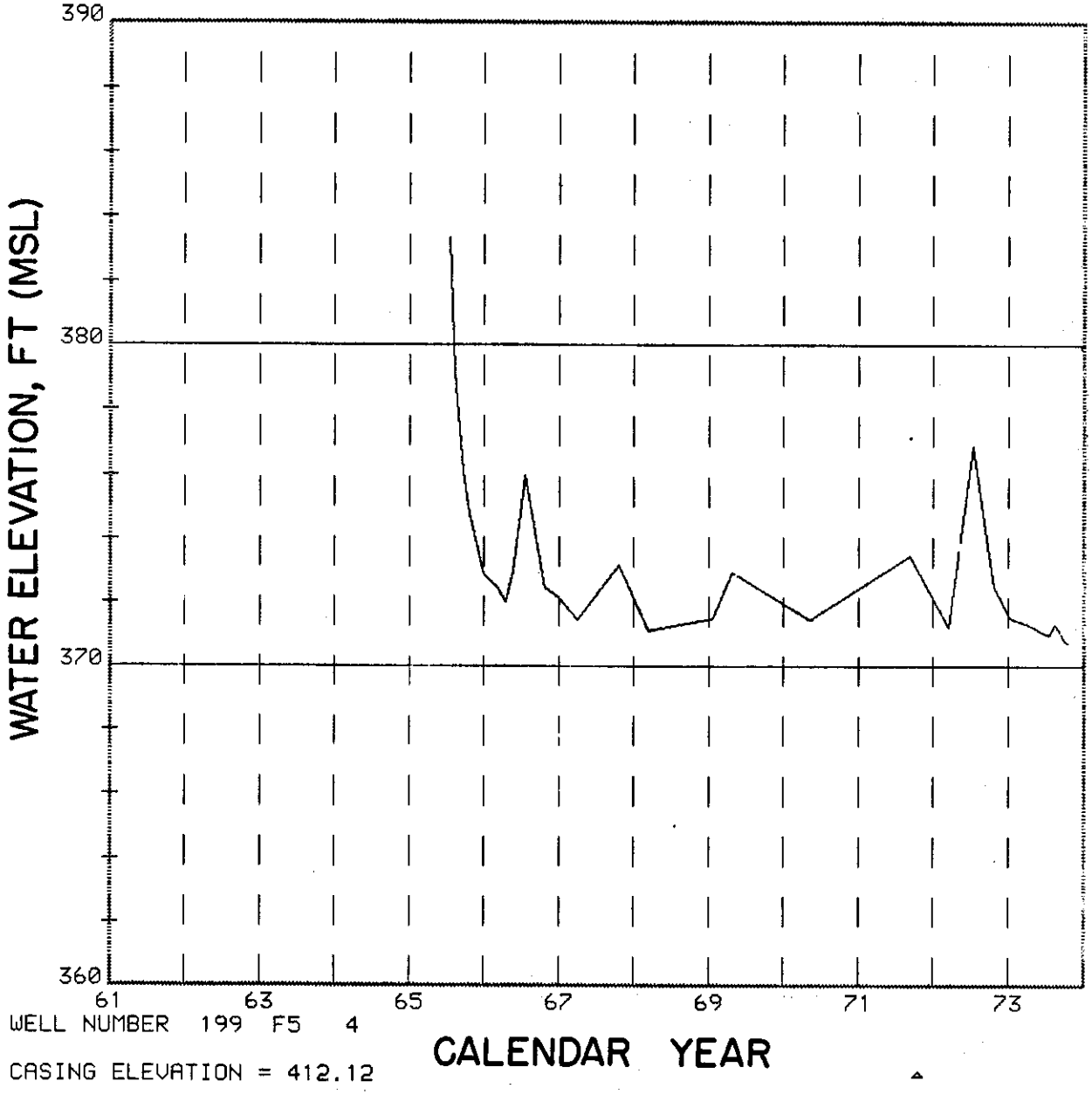
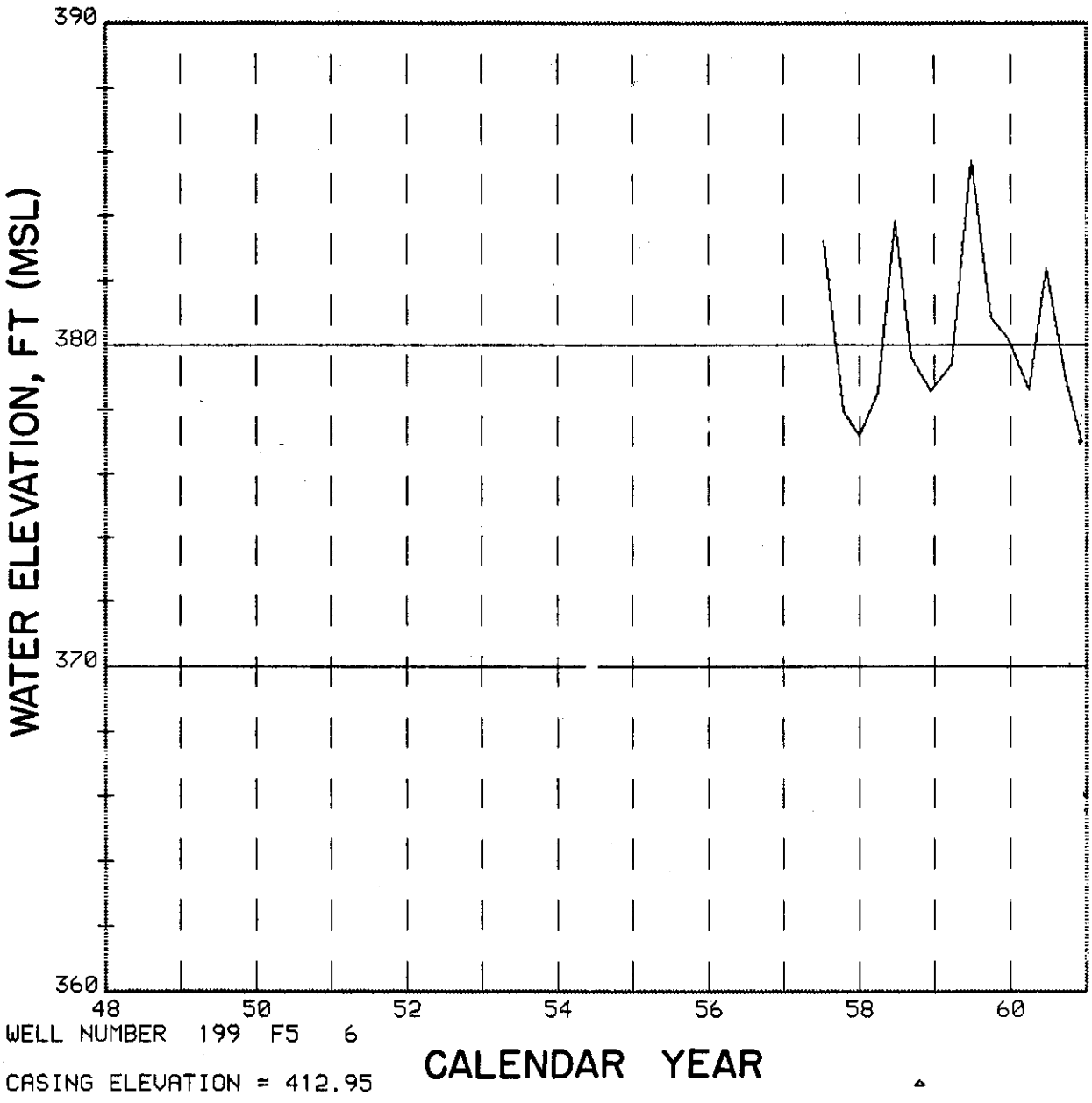


WELL NUMBER 199 F5 3

CASING ELEVATION = 408.62


390
380
370
360
WATER ELEVATION, FT (MSL)
61
63
65
67
69
71
73
CALENDAR YEAR
WELL NUMBER 199 F5 4
CASING ELEVATION = 412.12



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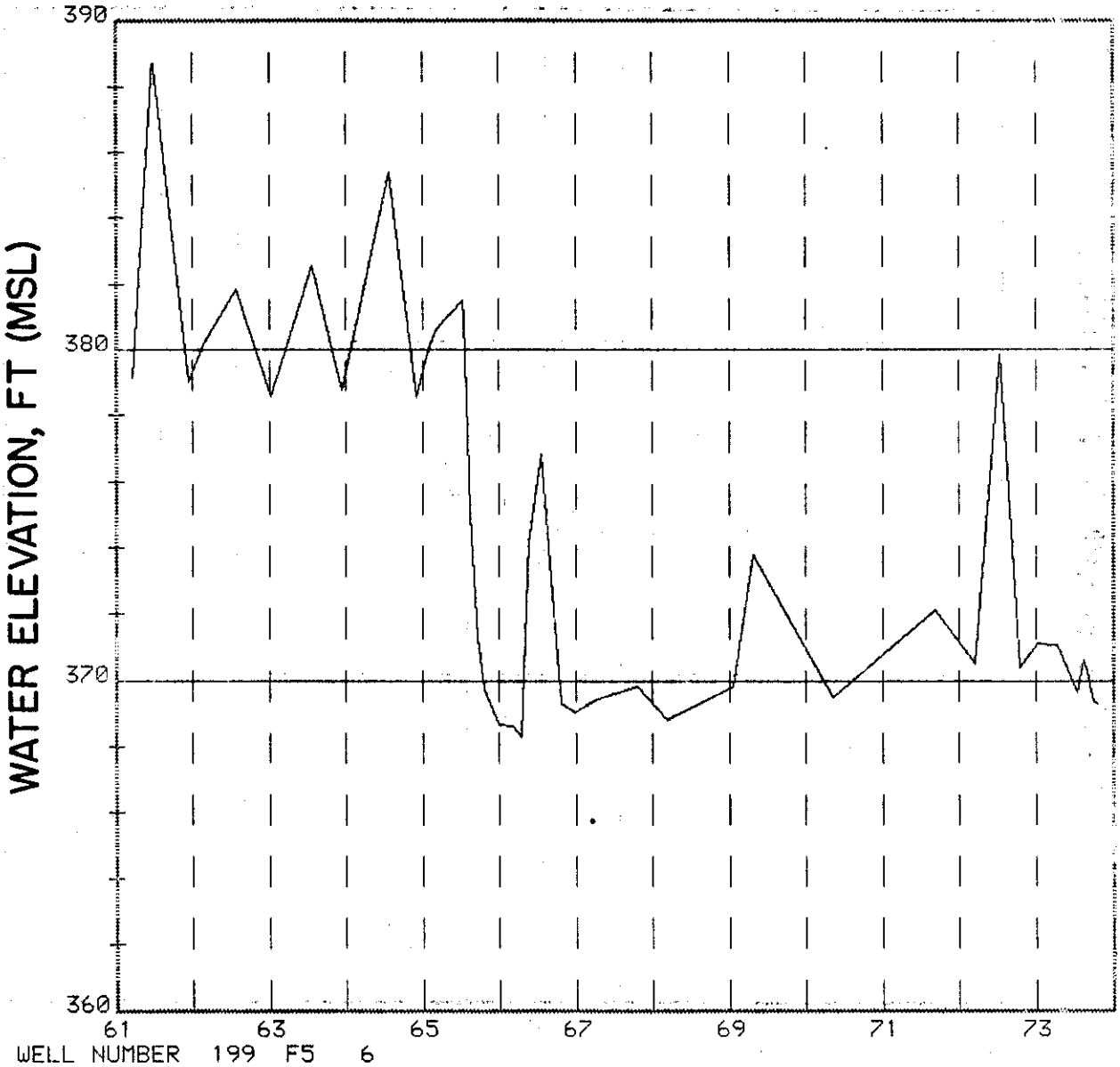

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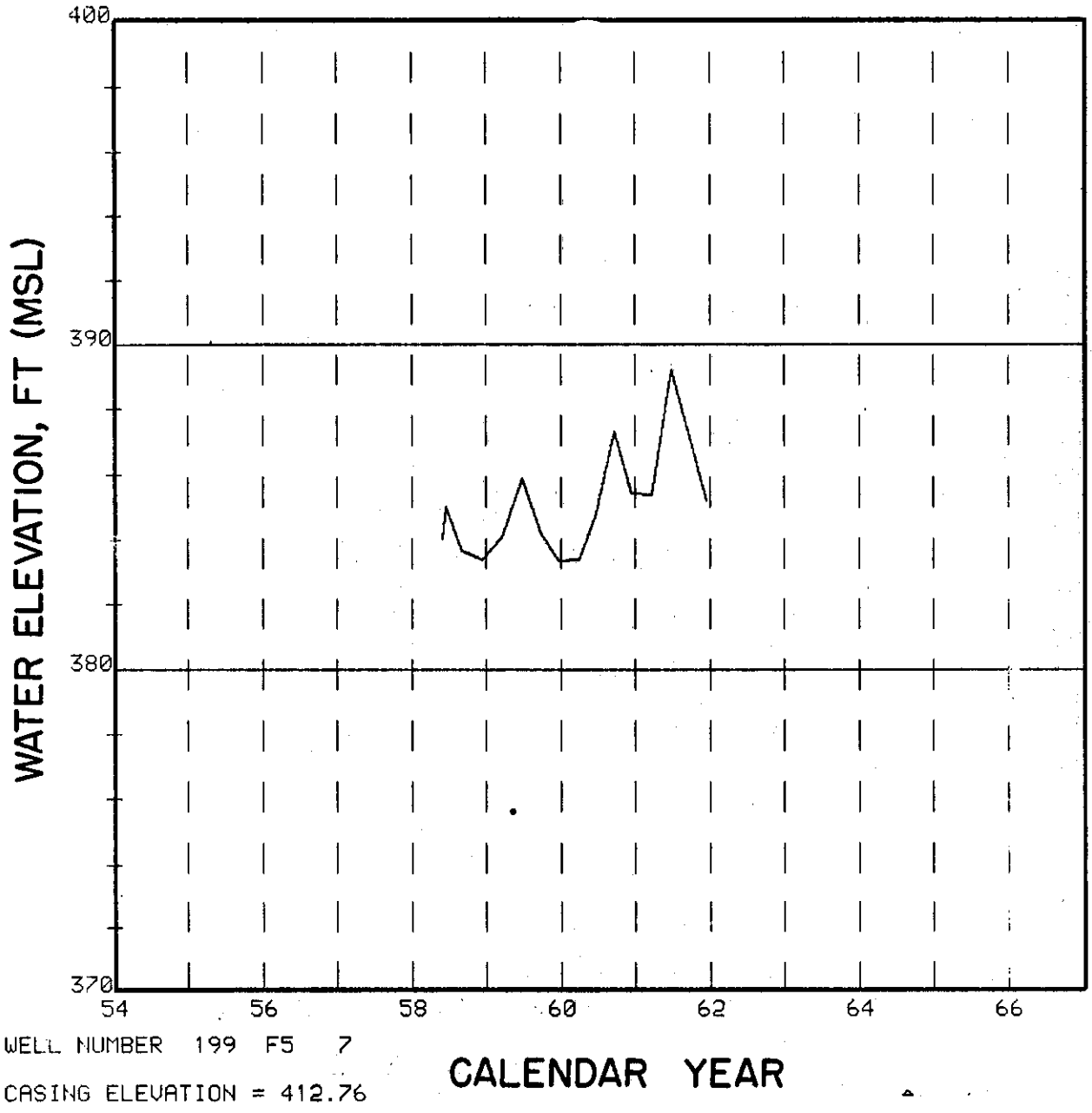

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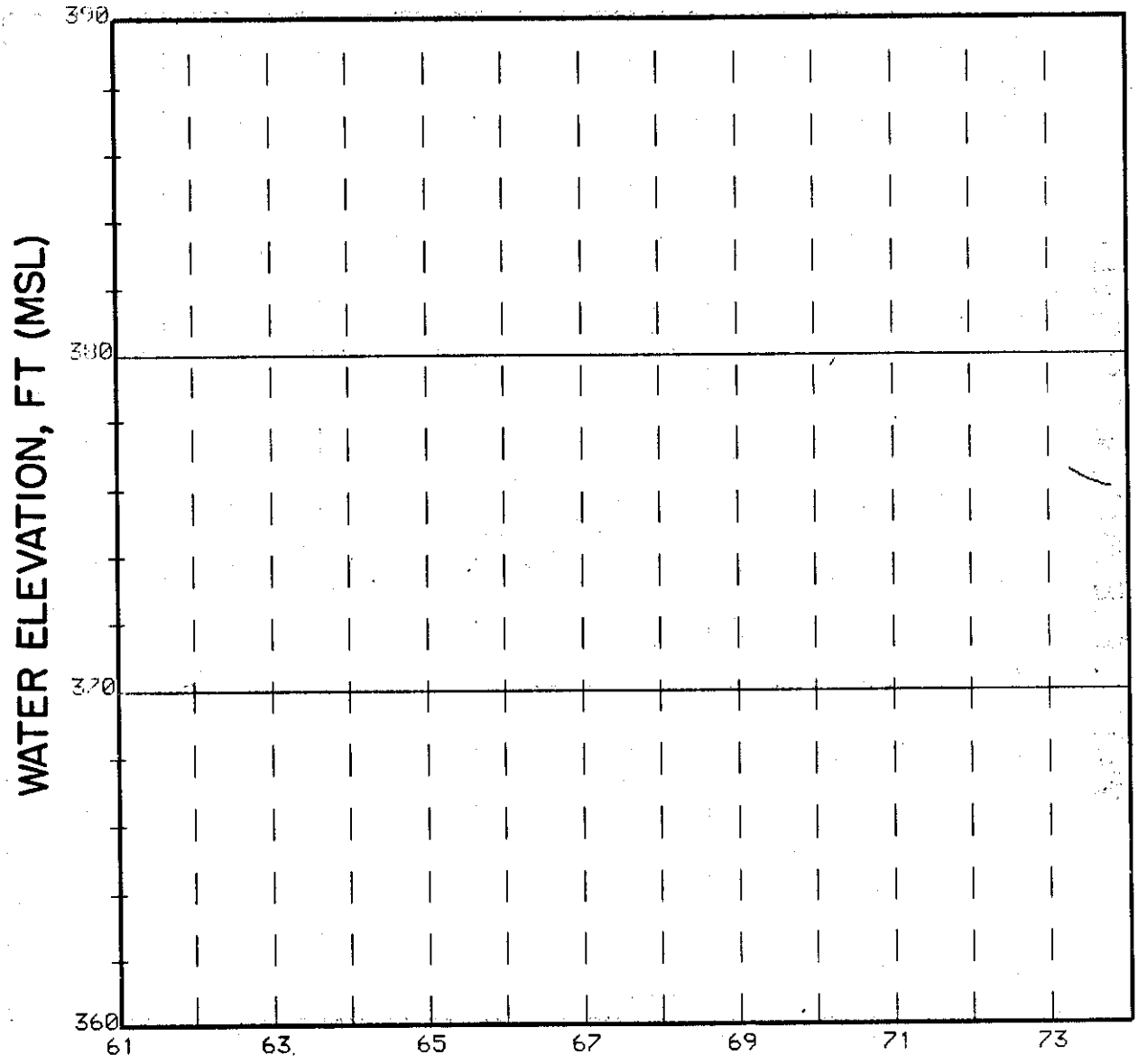

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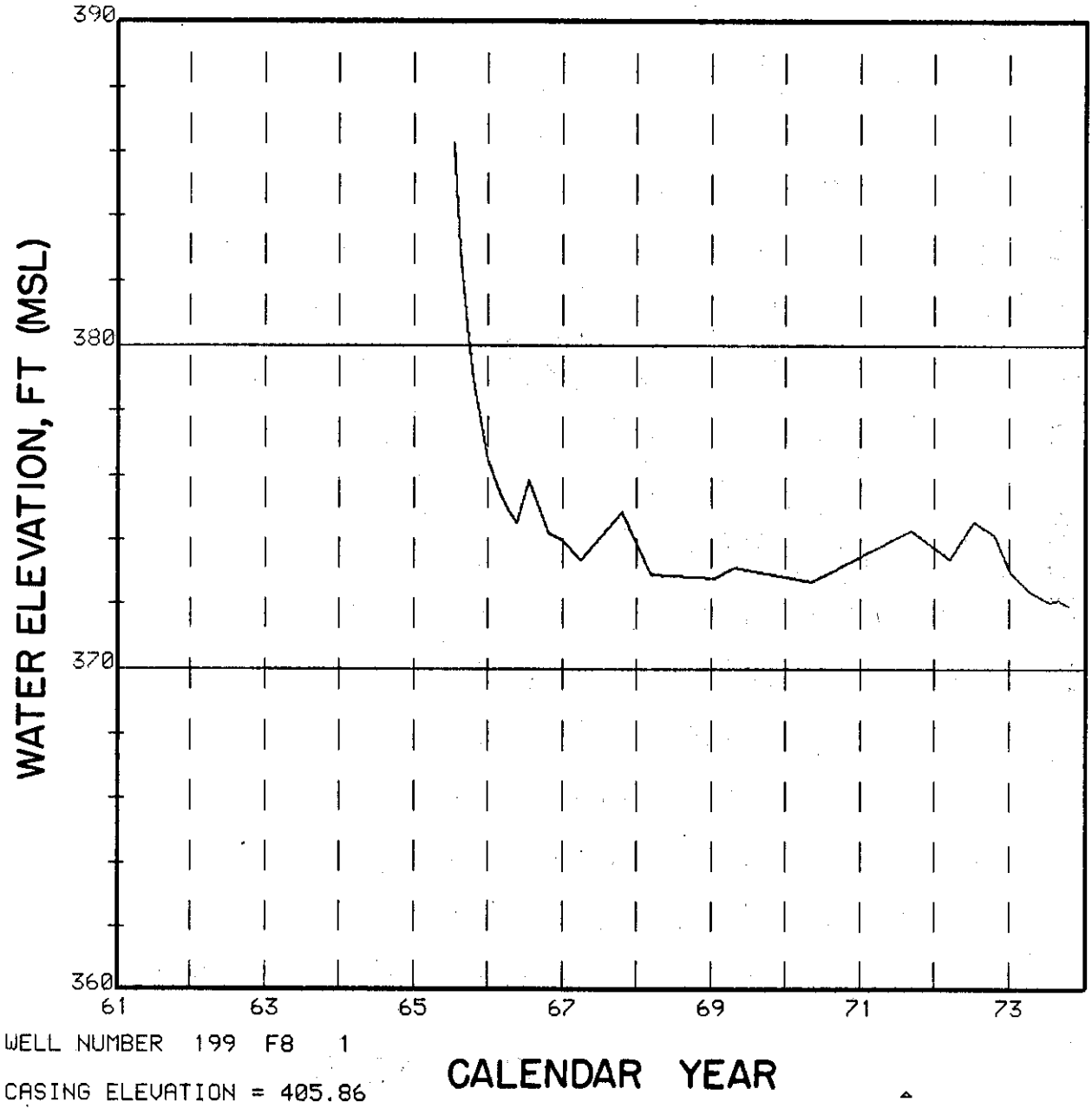

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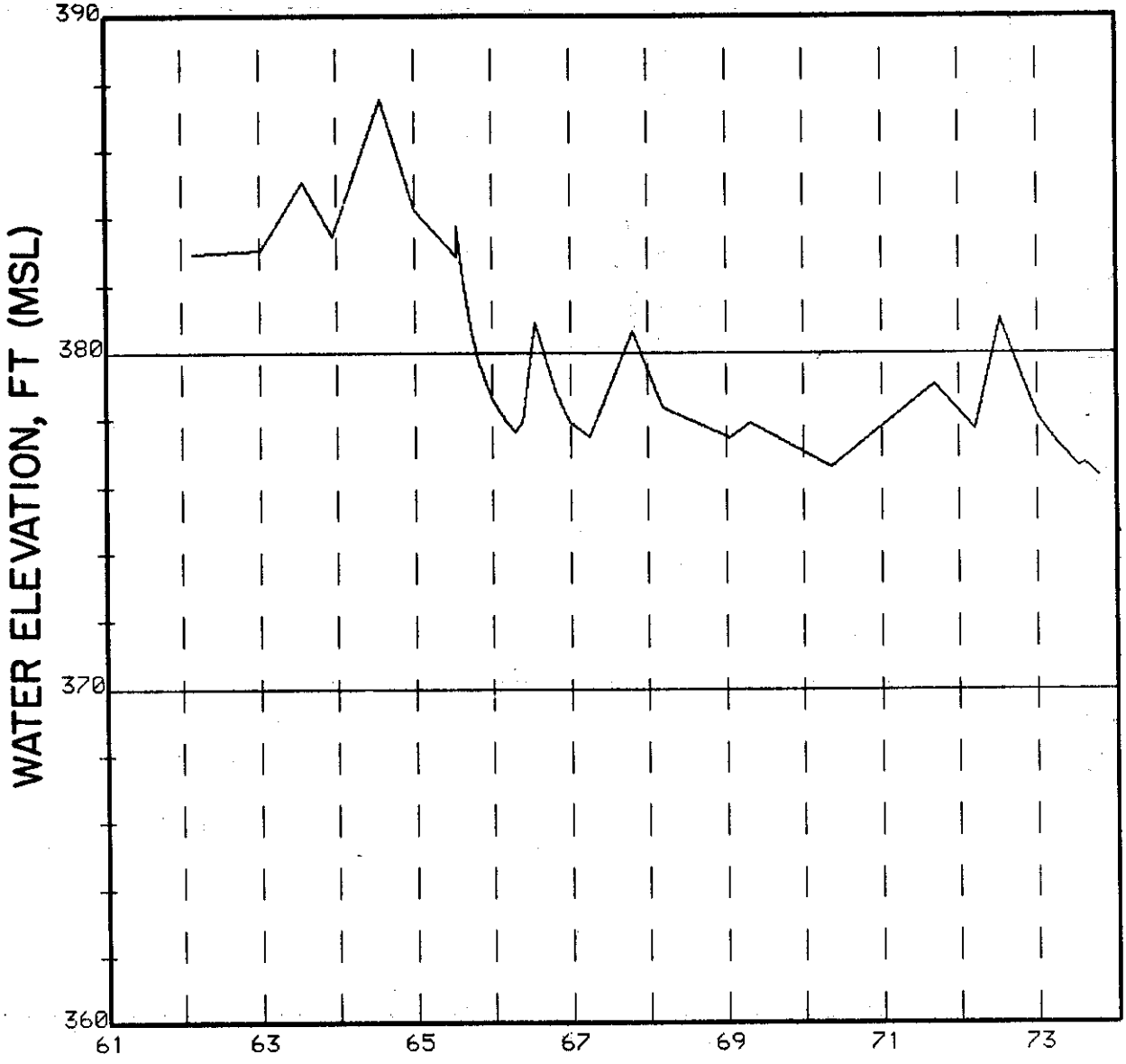
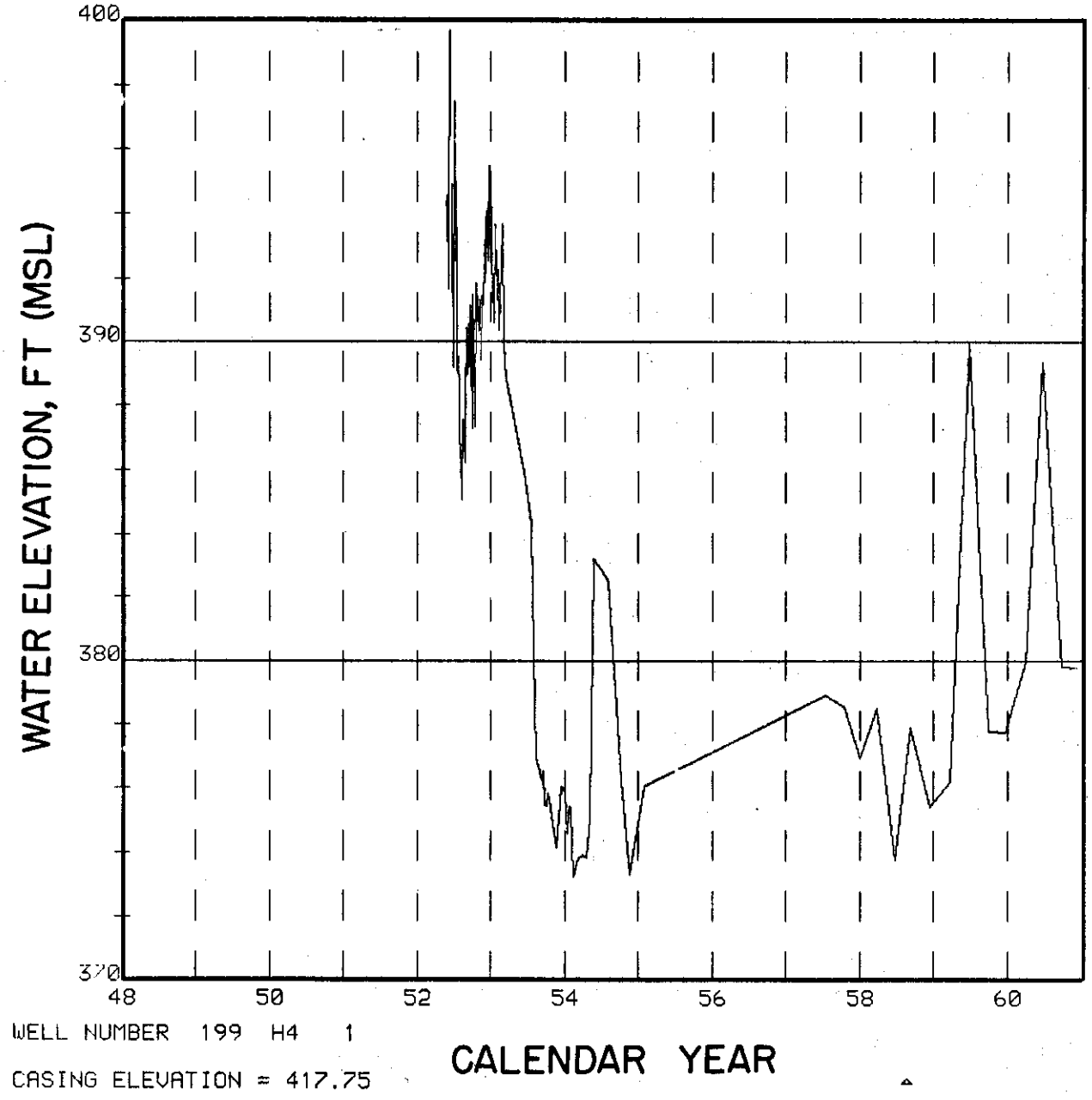


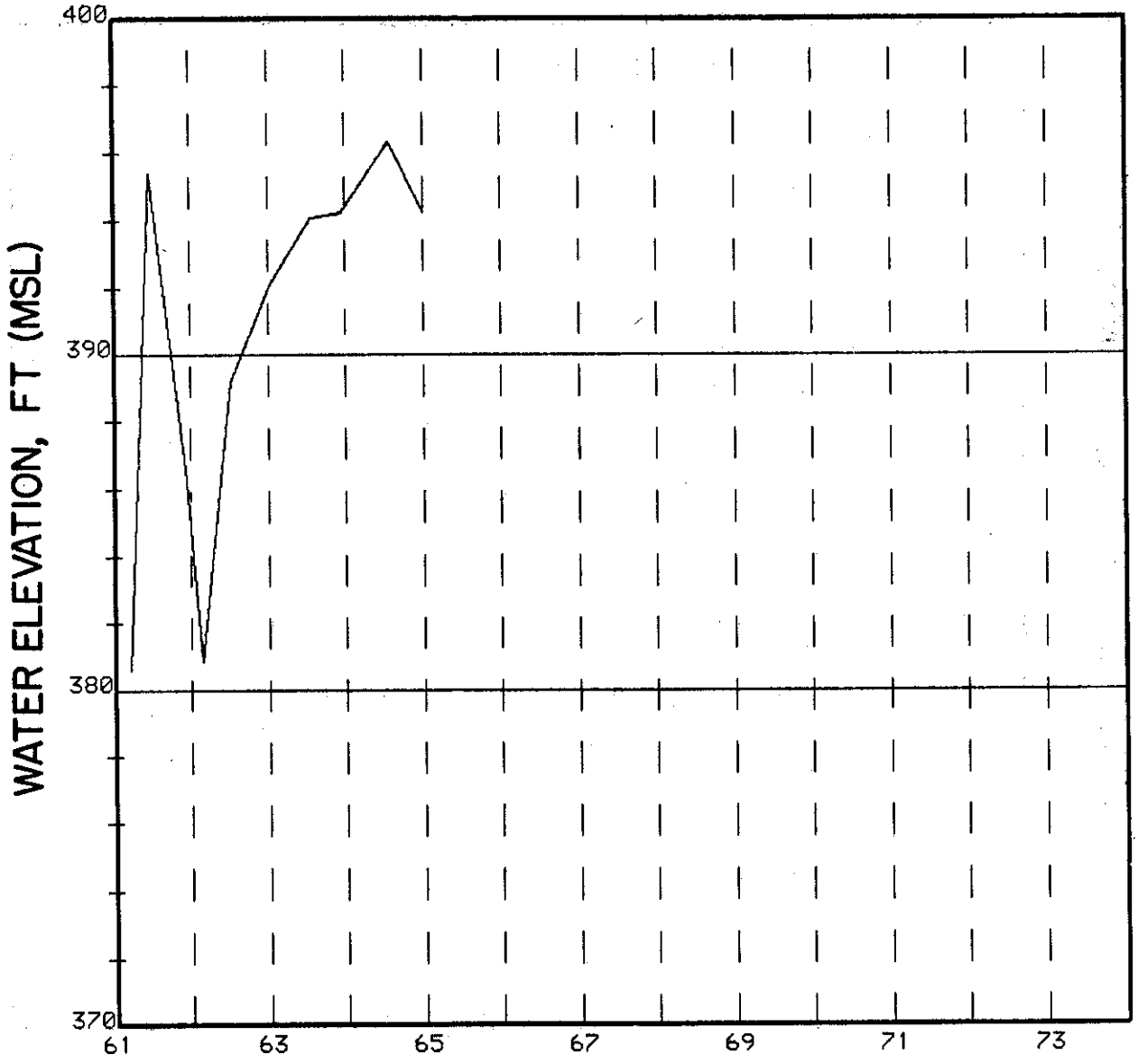
WELL NUMBER 199 H3 1

CASING ELEVATION = 421.98



WELL NUMBER 199 H4 1

CASING ELEVATION = 417.75



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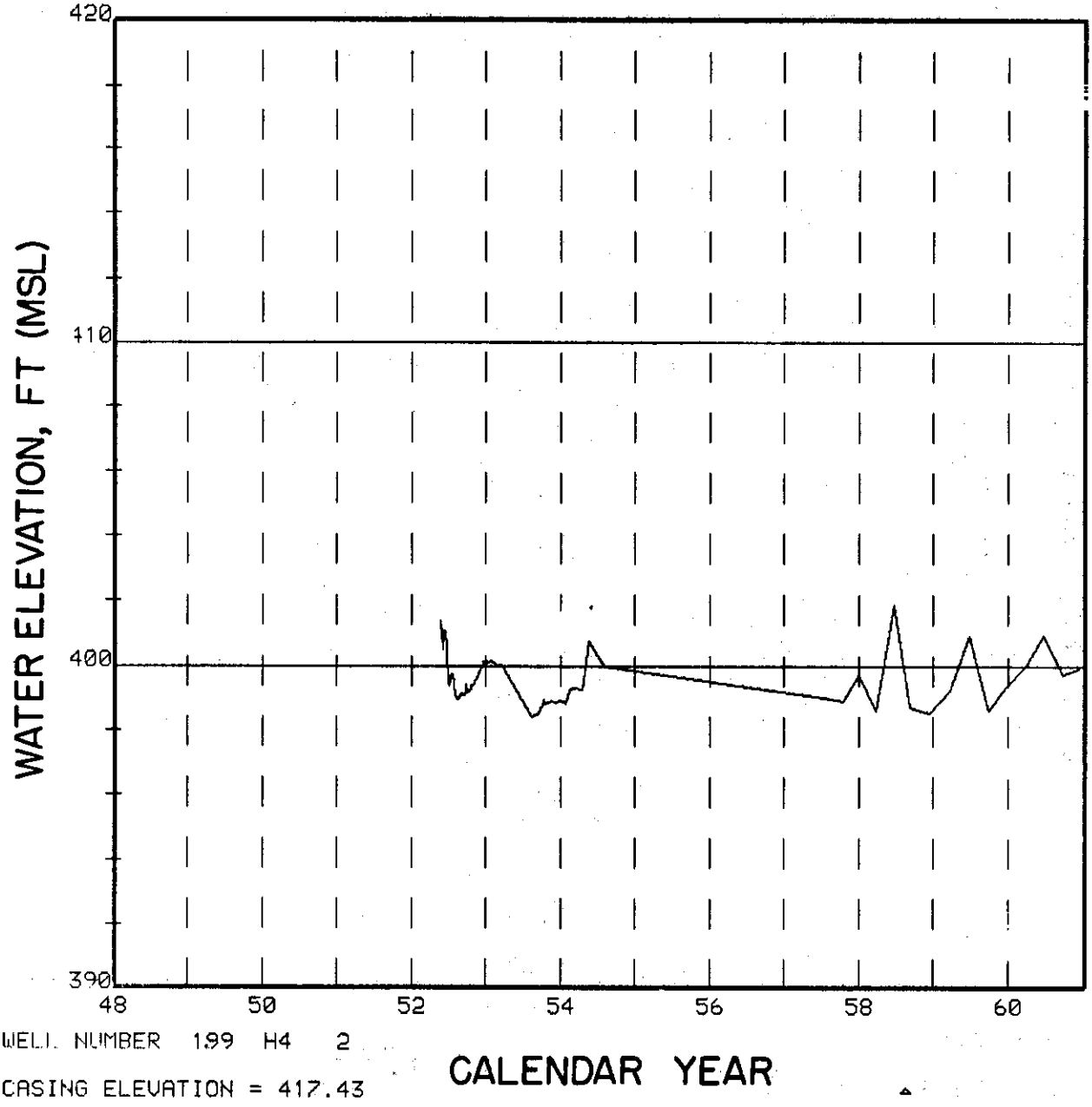

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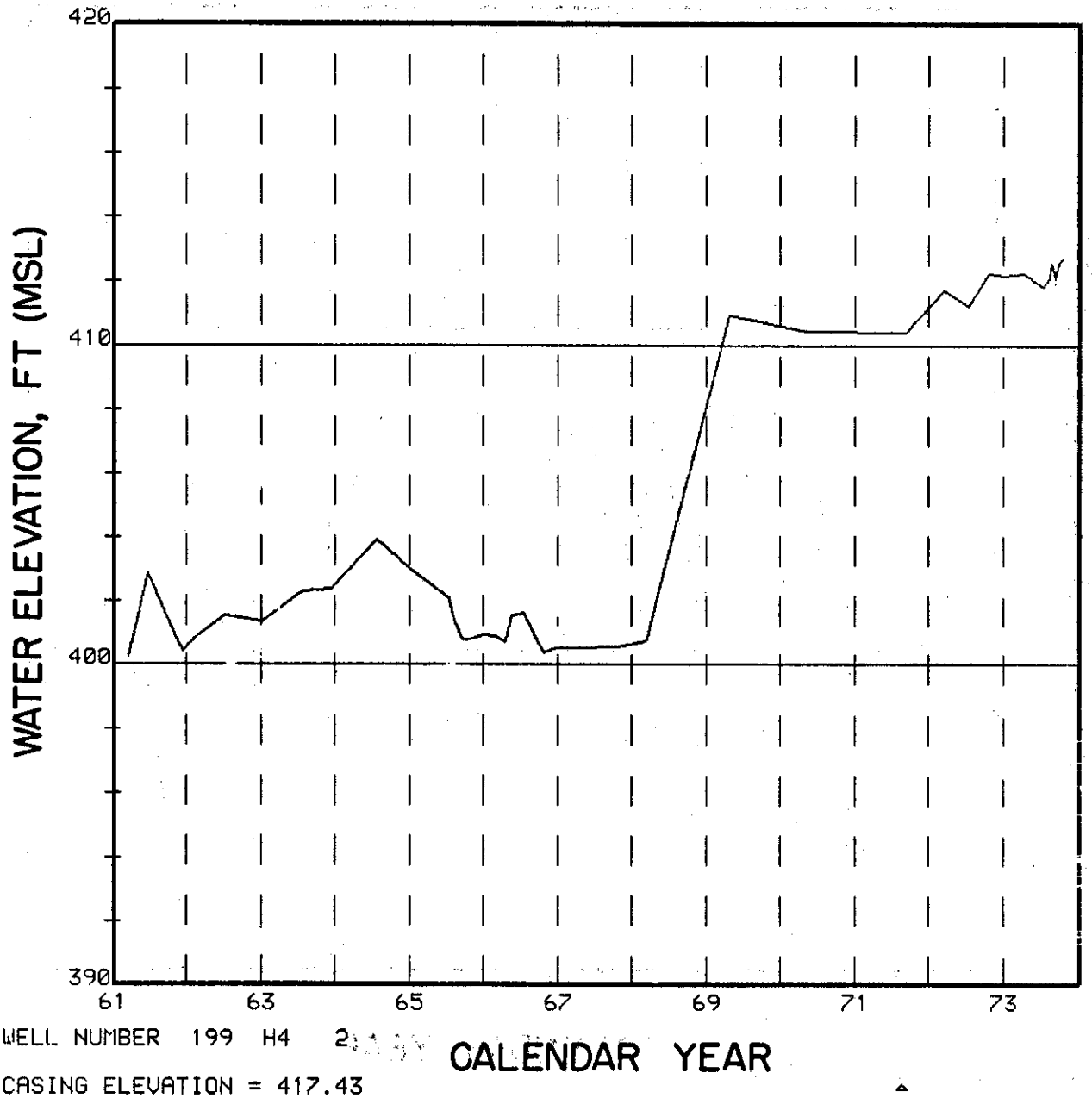
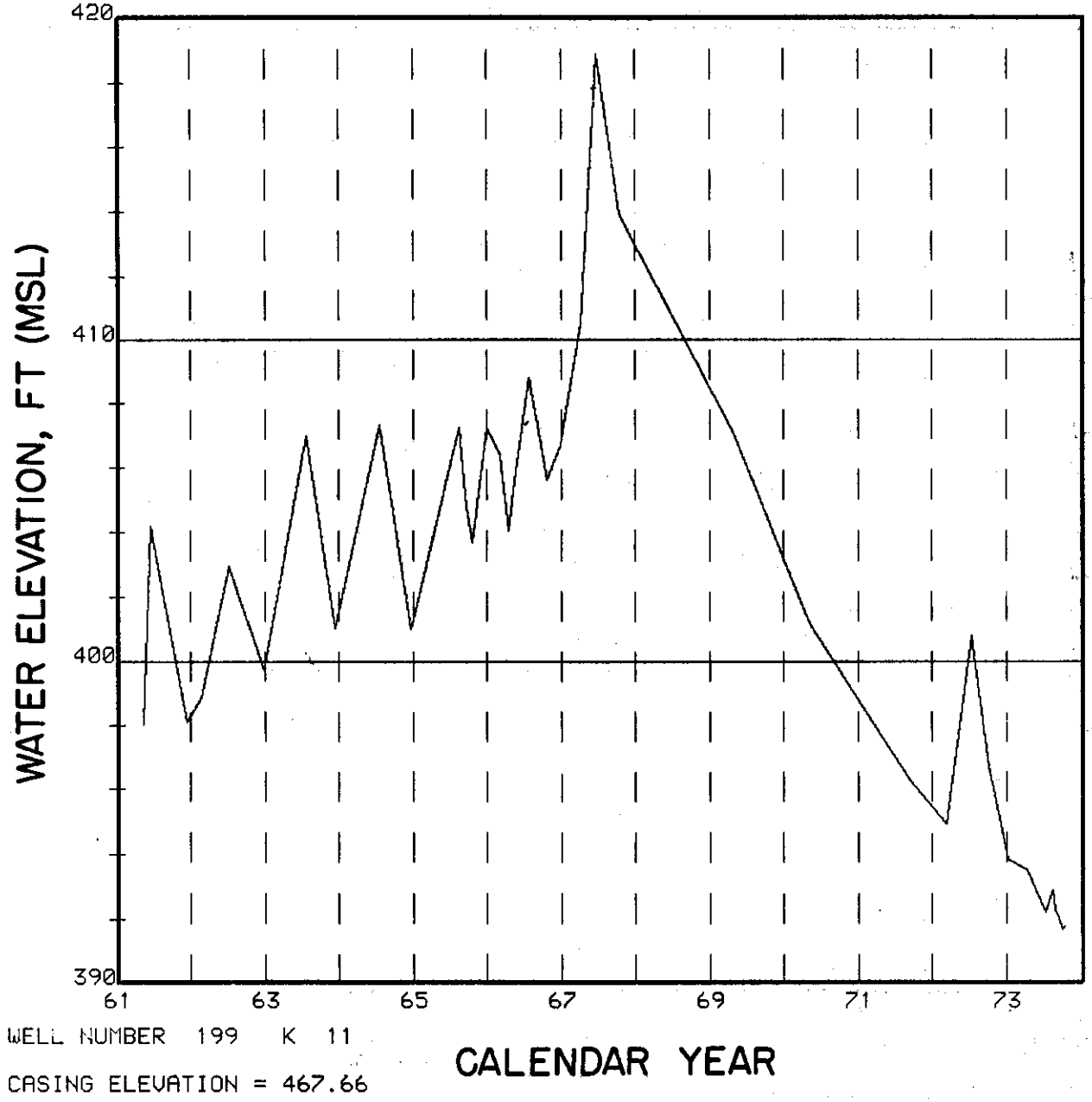
CASING ELEVATION = 417.43



WELL NUMBER 199 H4 2

CASING ELEVATION = 417.43



WELL NUMBER 199 K 11

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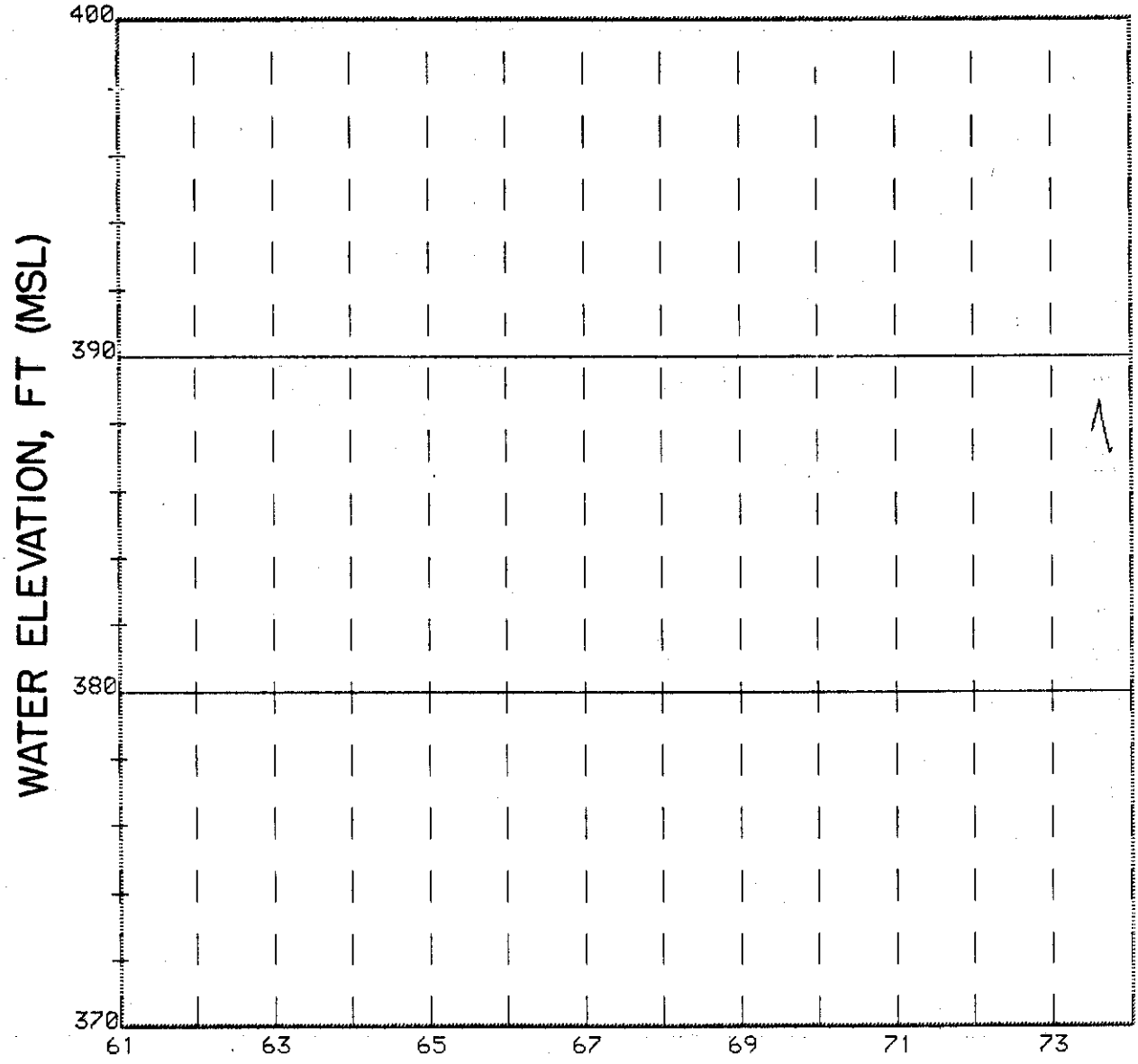

WELL NUMBER 199 K 18

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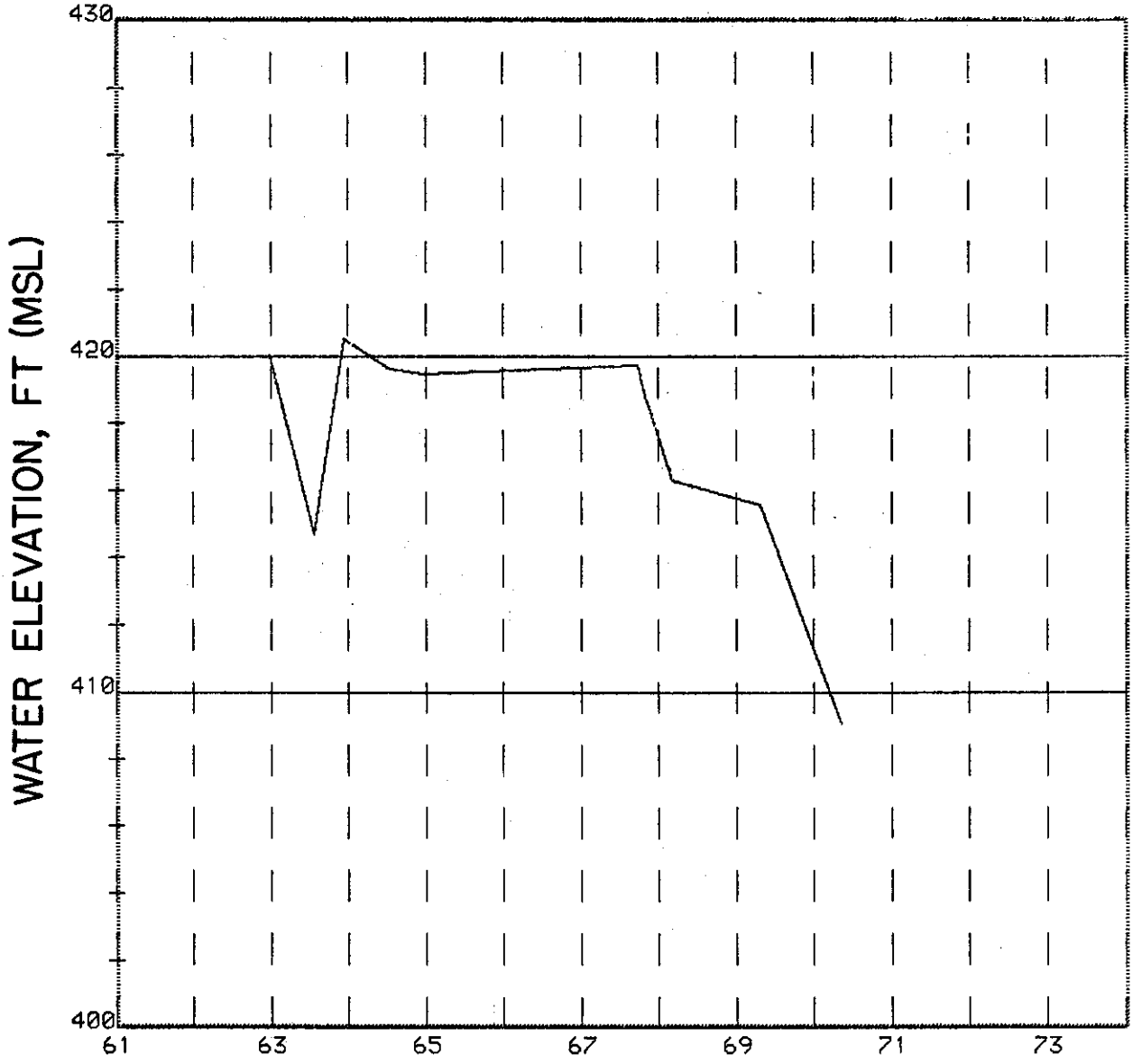

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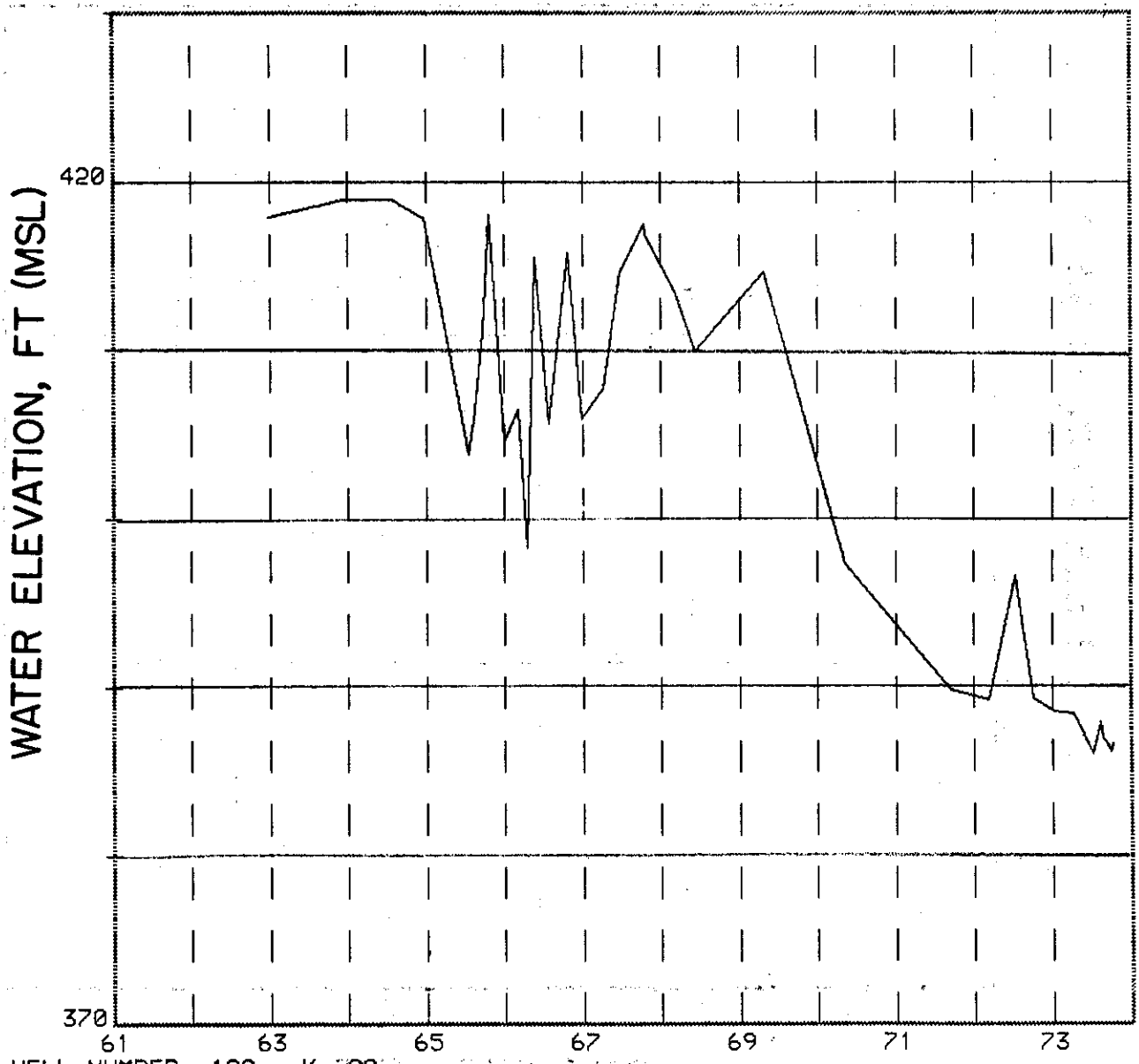
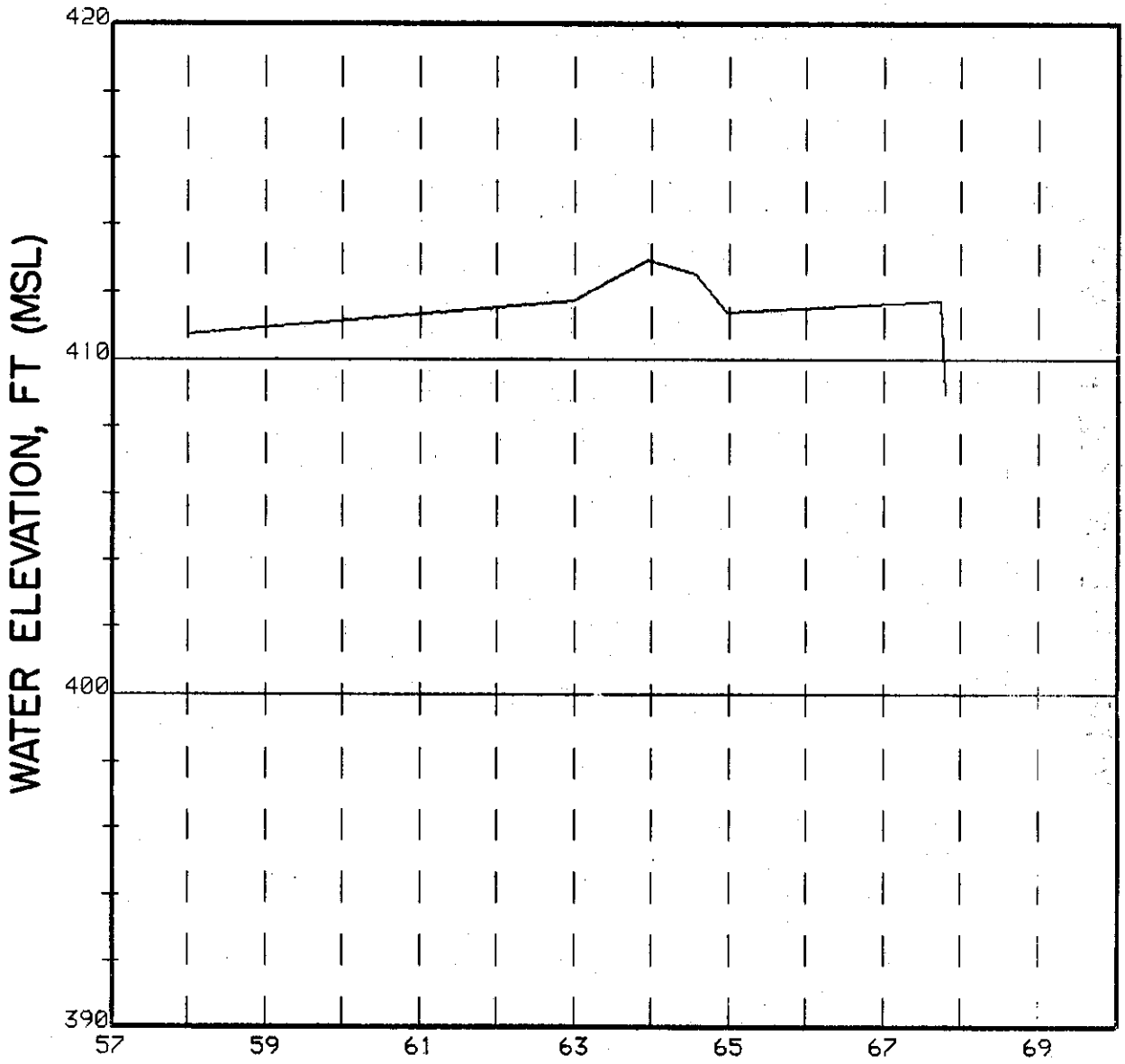


WELL NUMBER 199 K 20

CASING ELEVATION = 422.57

WELL HYDROGRAPHS



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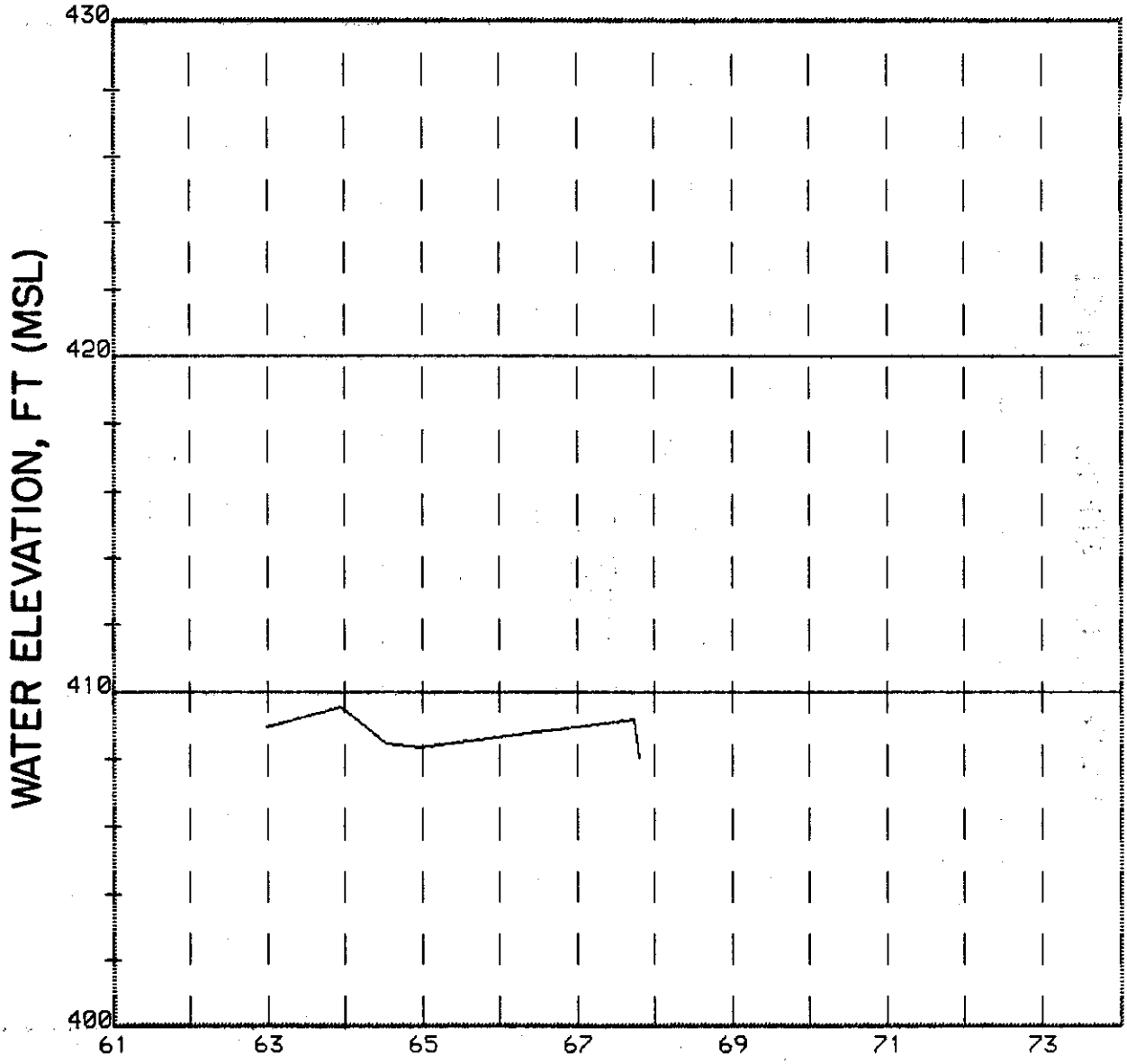

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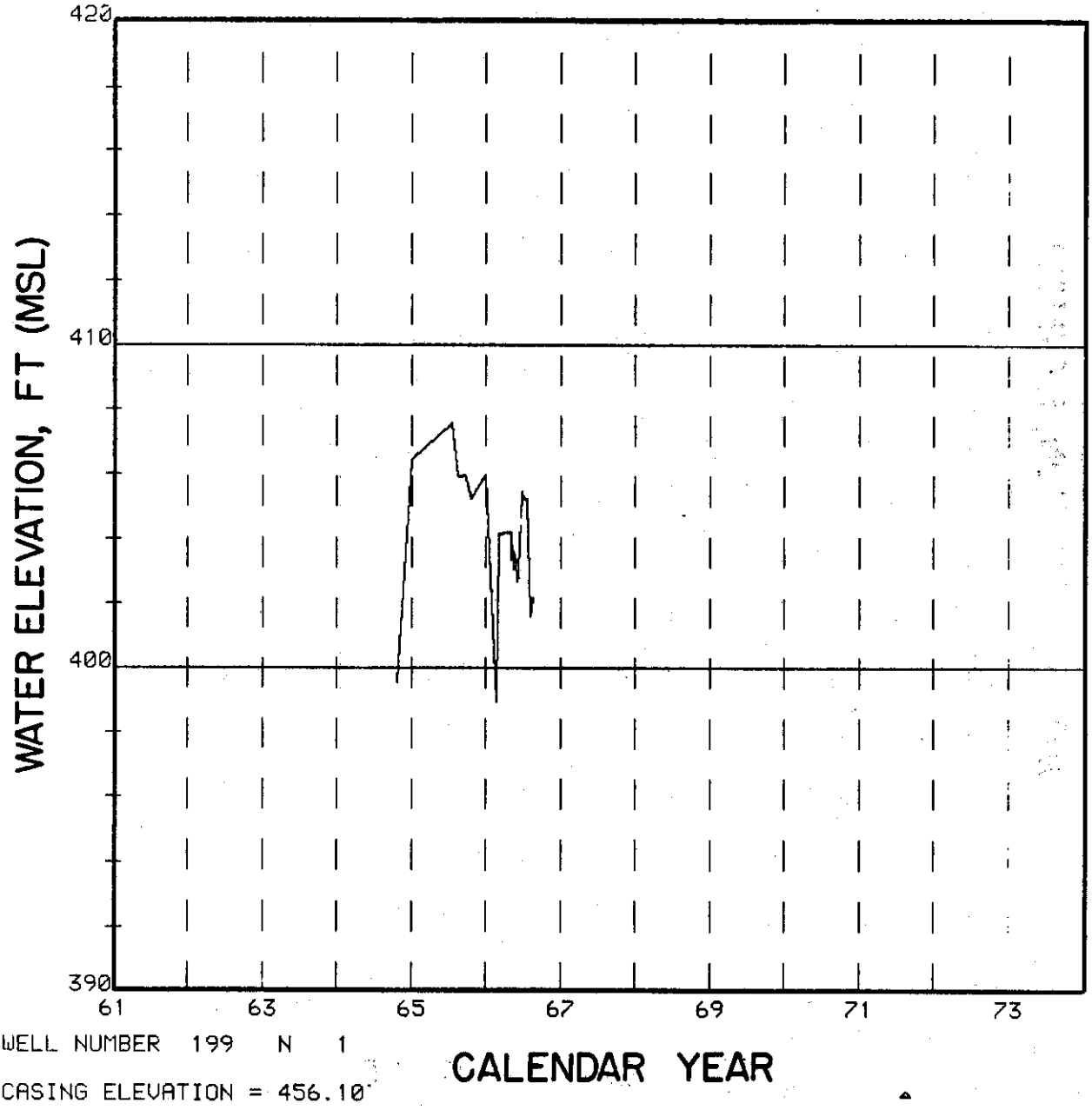
CASING ELEVATION = 421.68

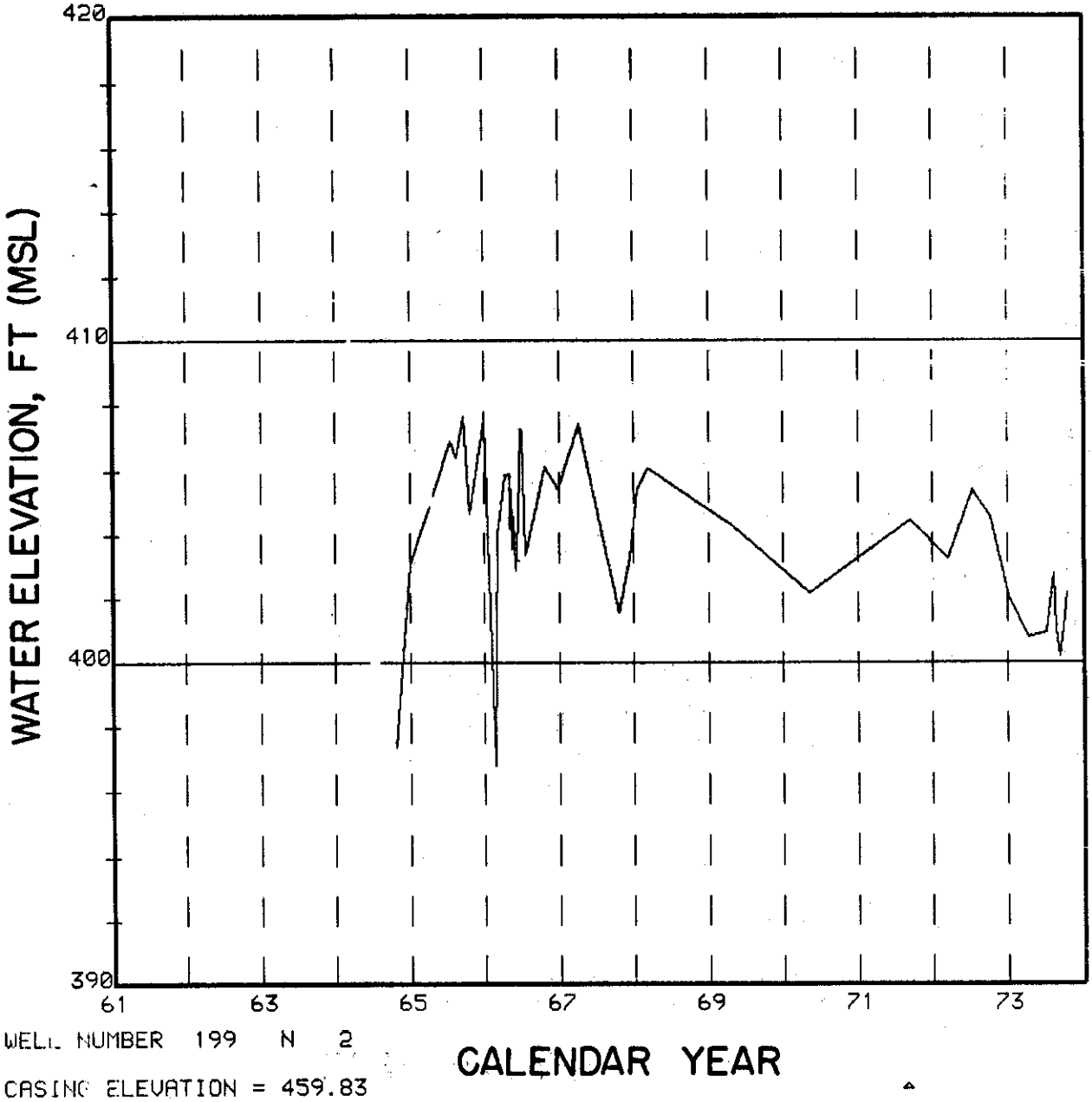
WELL HYDROGRAPHS



WELL NUMBER 199 N 1

CASING ELEVATION = 456.10

WELL HYDROGRAPHS



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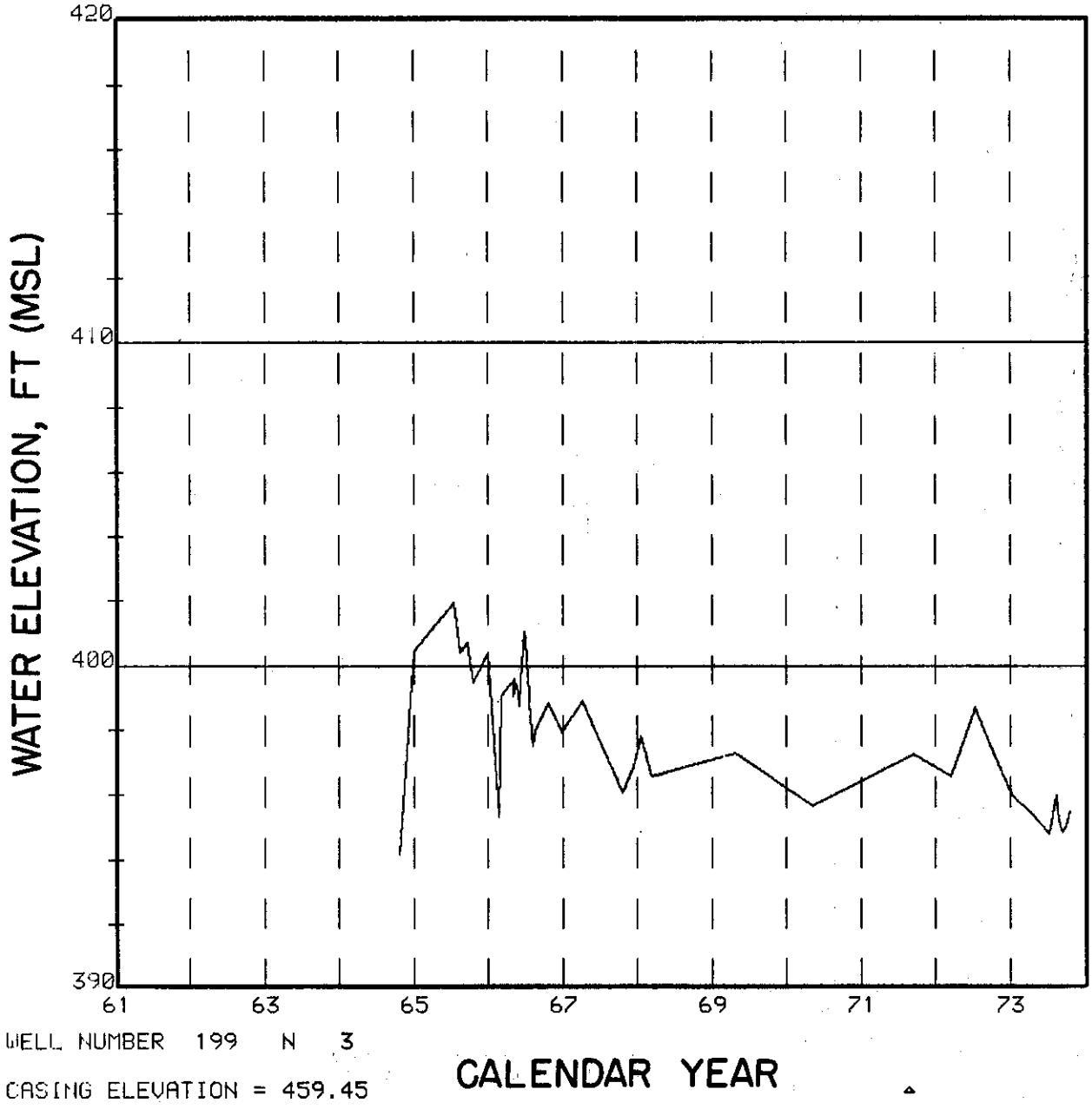
CASING ELEVATION = 459.83

WELL HYDROGRAPHS



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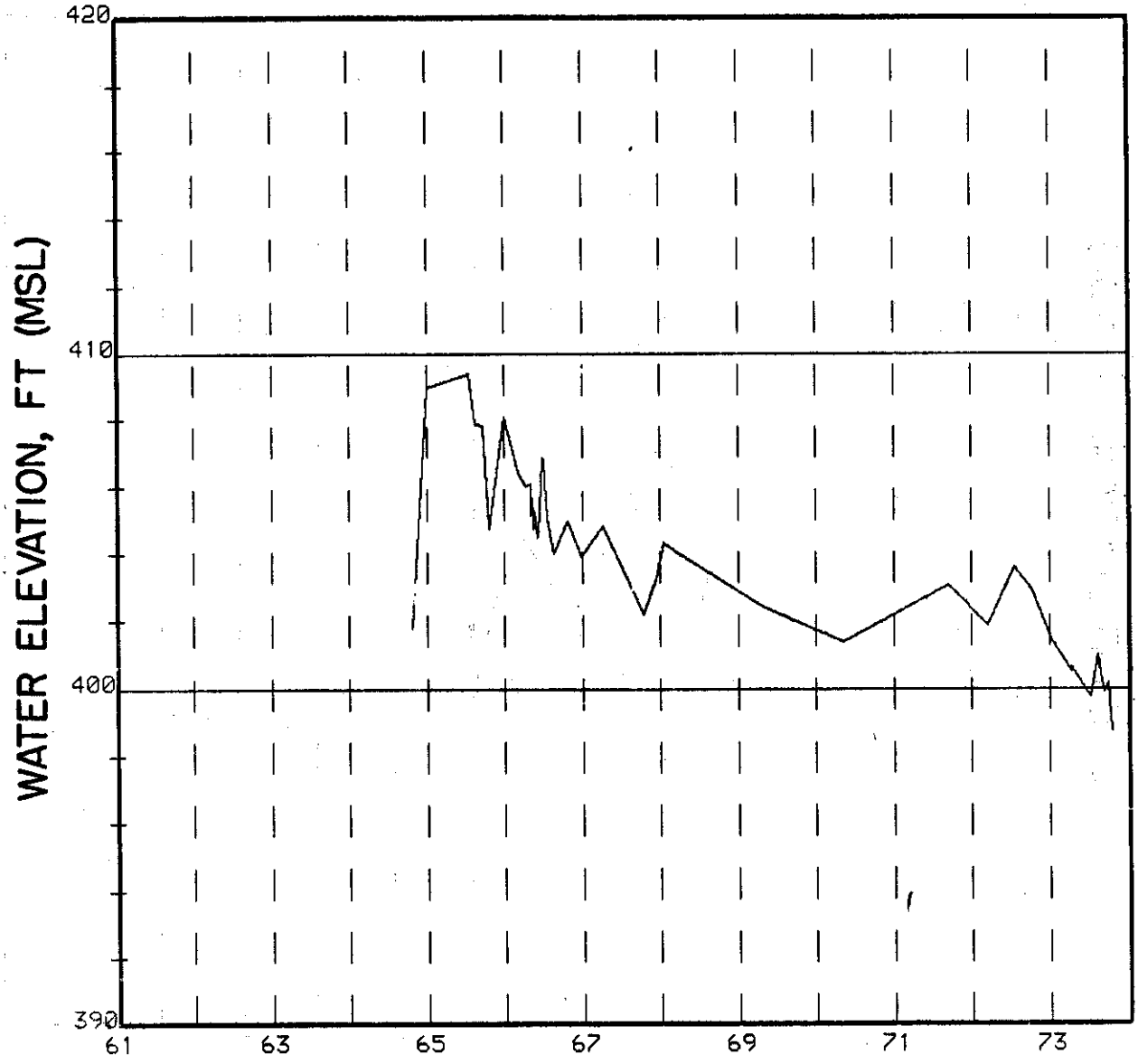
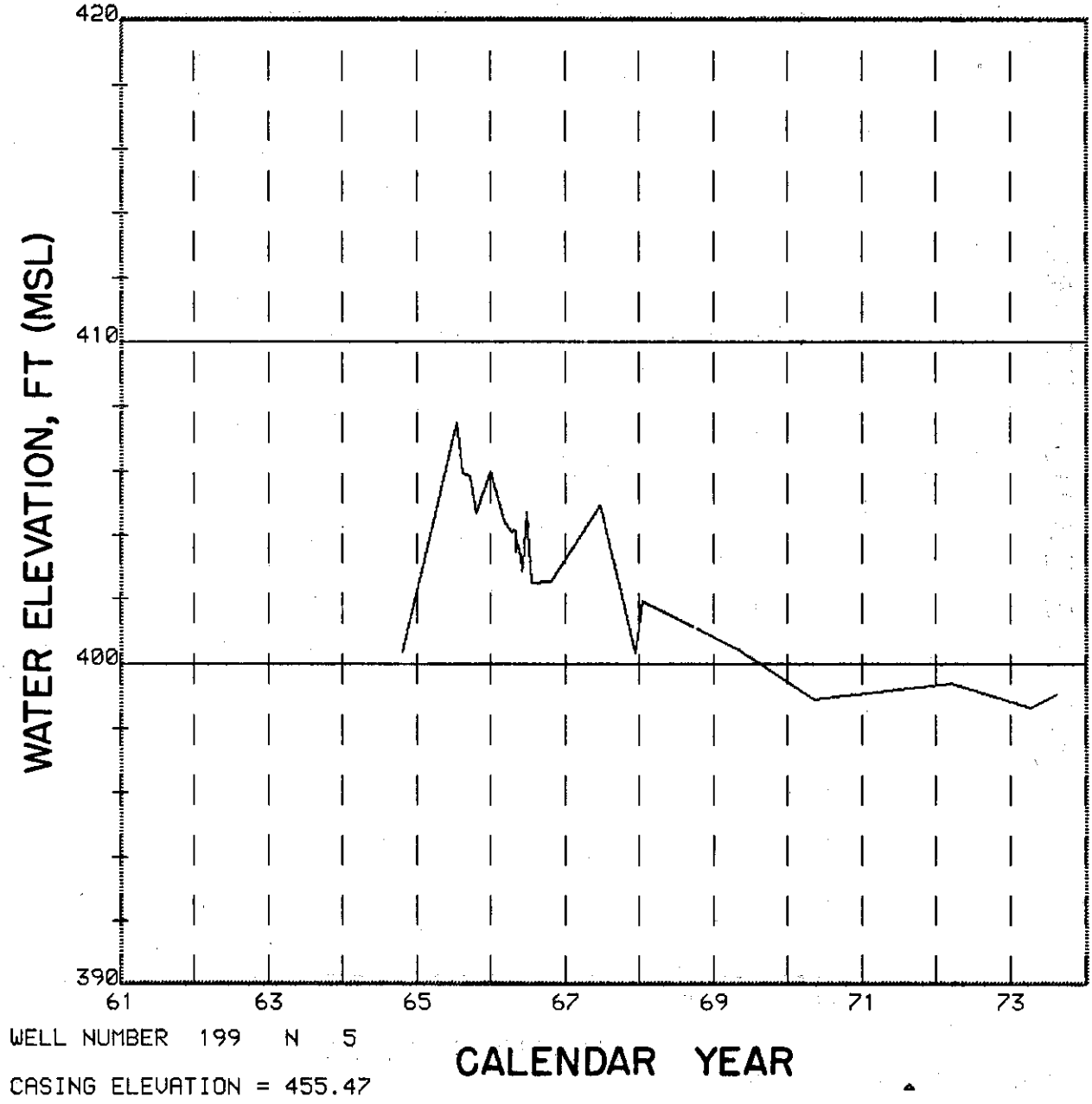
CASING ELEVATION = 459.45

WELL HYDROGRAPHS



WELL NUMBER 199 N 4

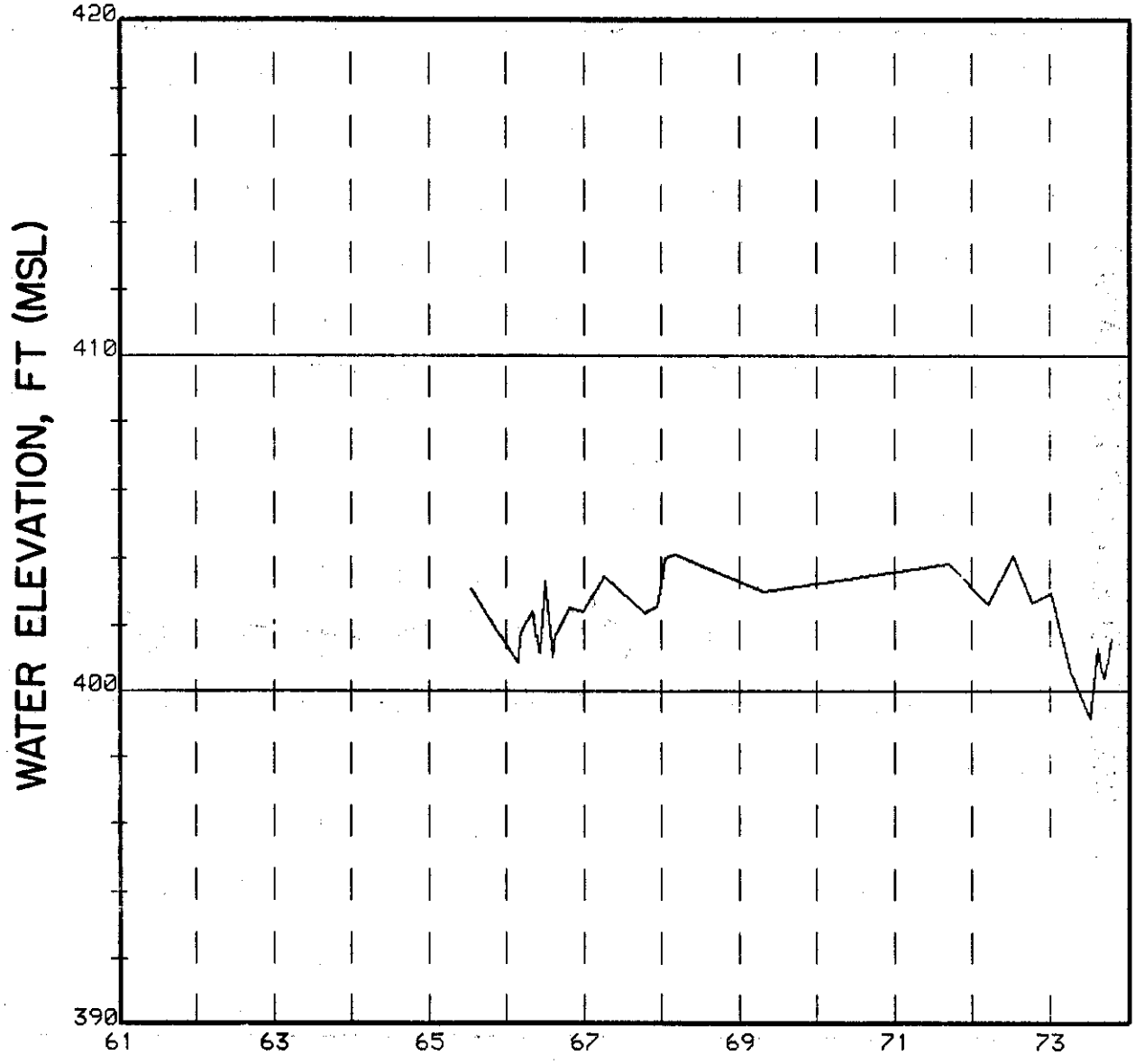
CASING ELEVATION = 457.63



WELL NUMBER 199 N 5

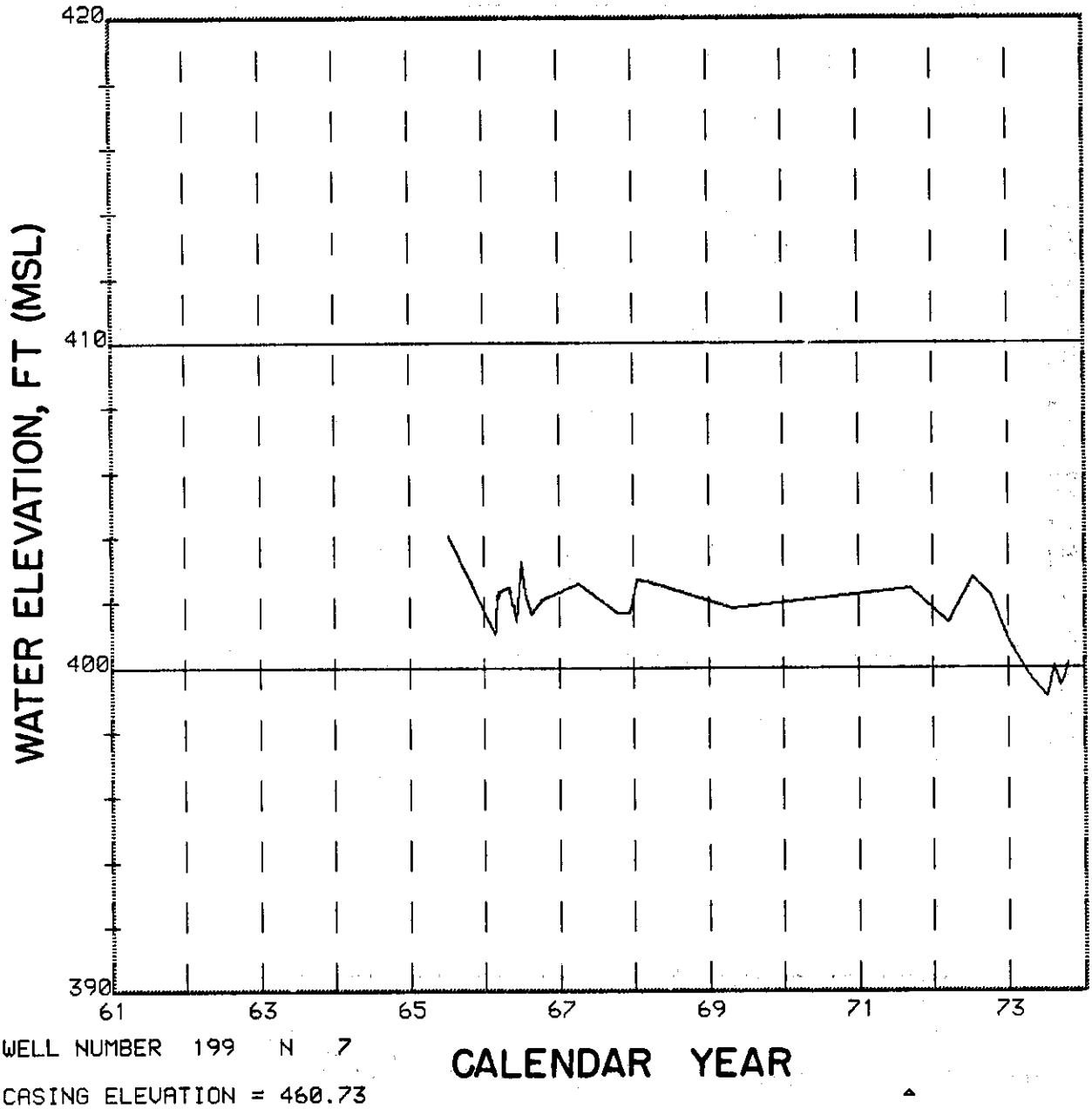
CASING ELEVATION = 455.47

WELL HYDROGRAPHS



WELL NUMBER 199 N 6

CASING ELEVATION = 460.97



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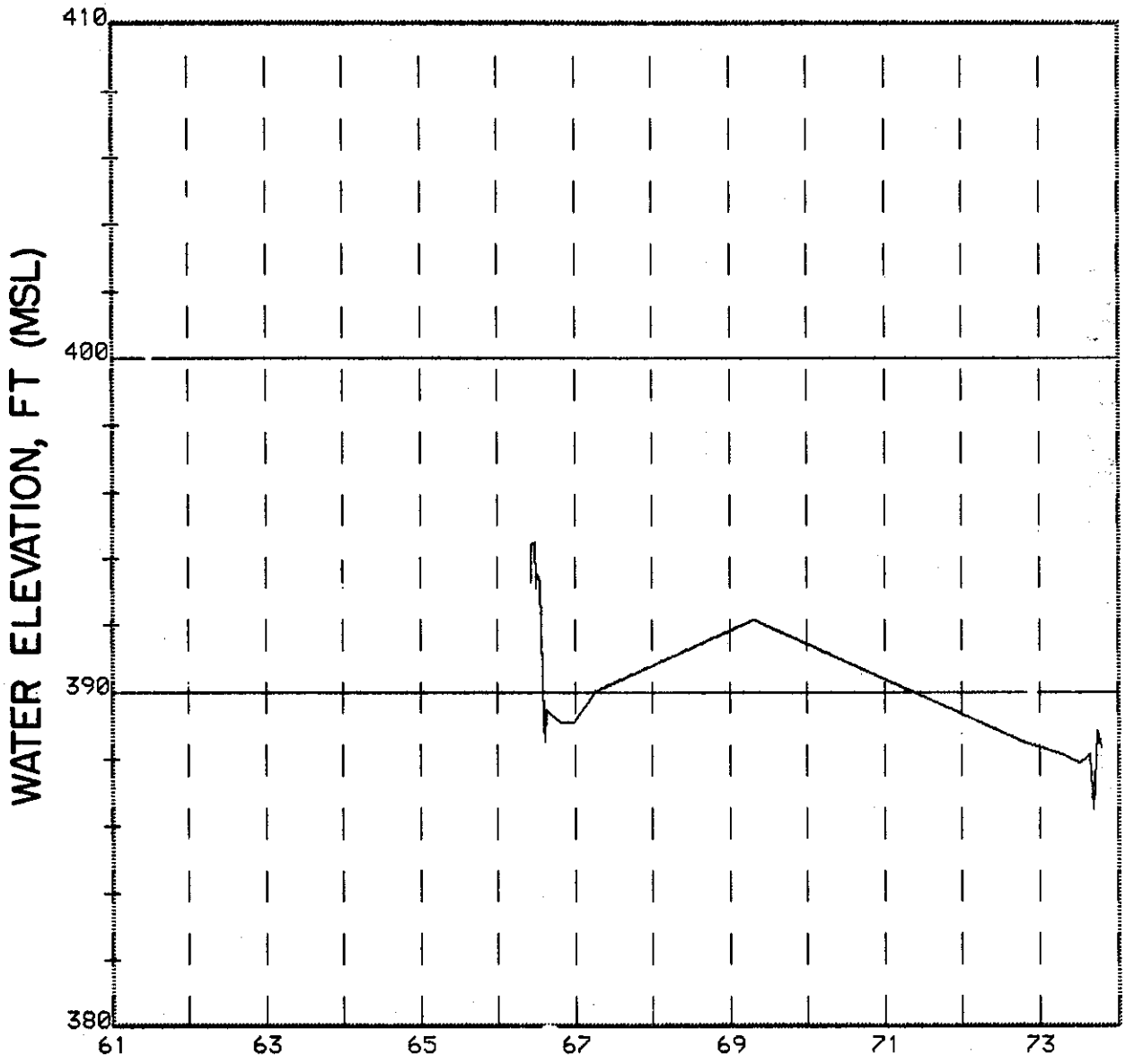
CASING ELEVATION = 460.73



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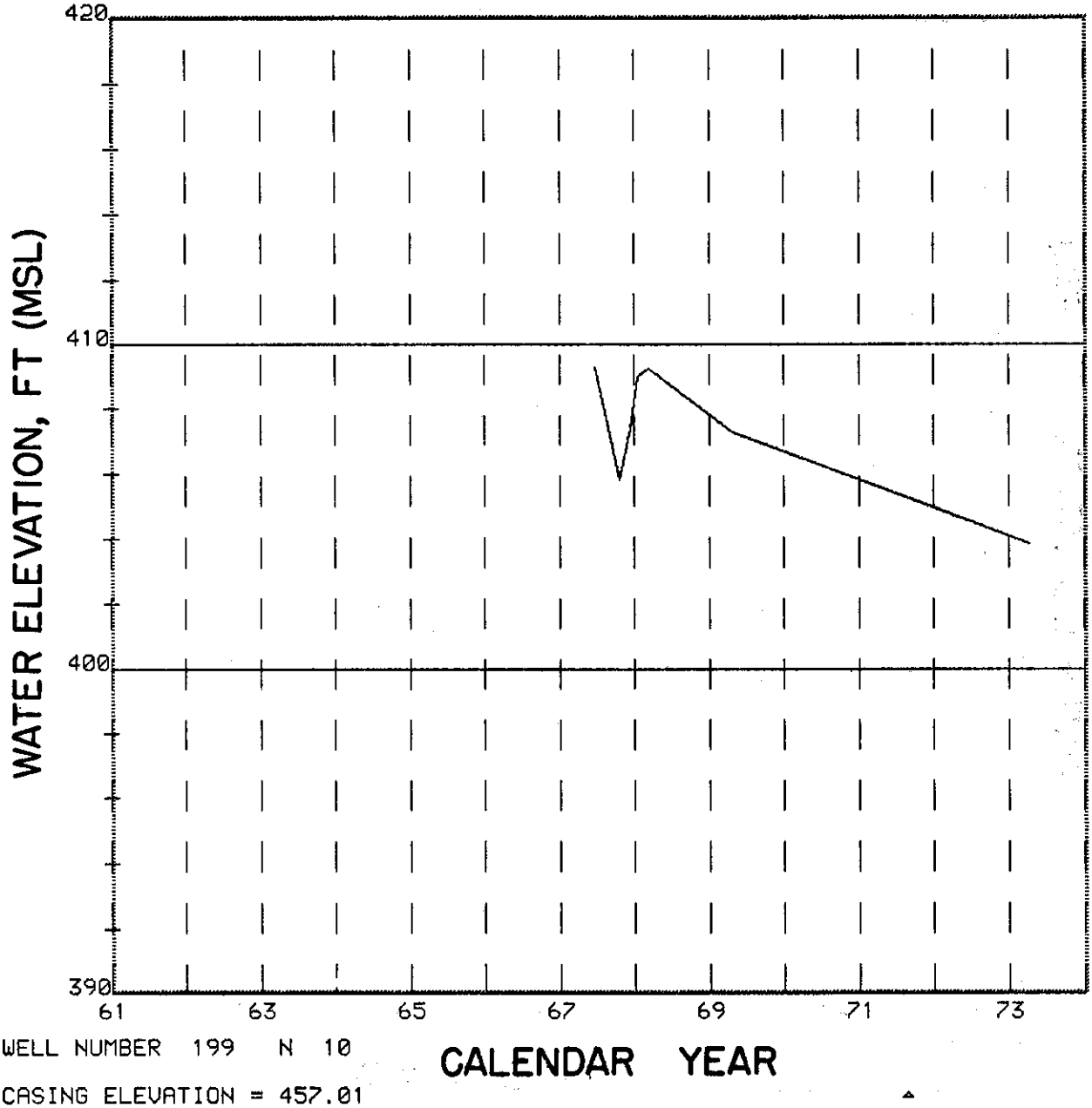

WELL NUMBER 199 N 10

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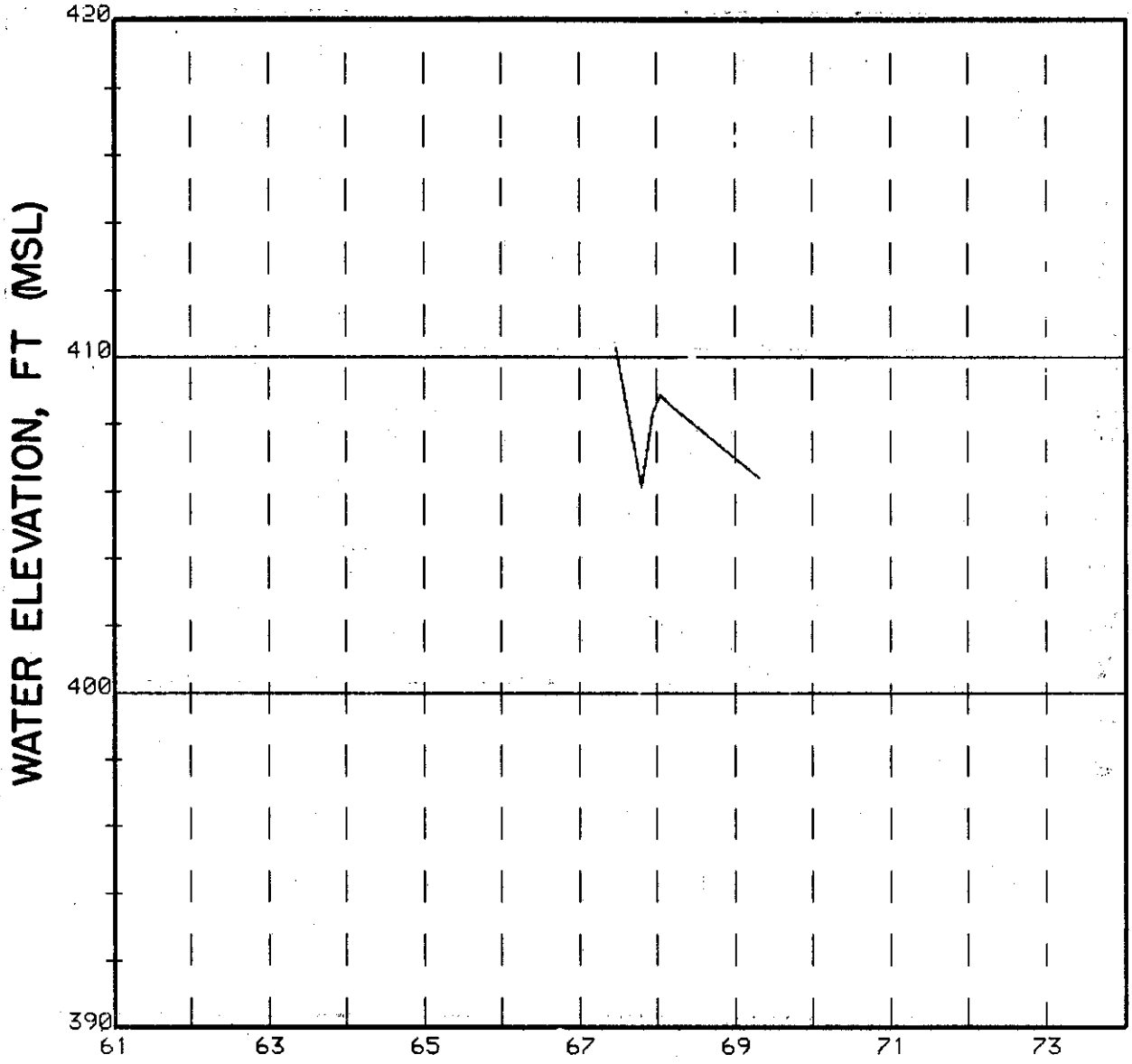
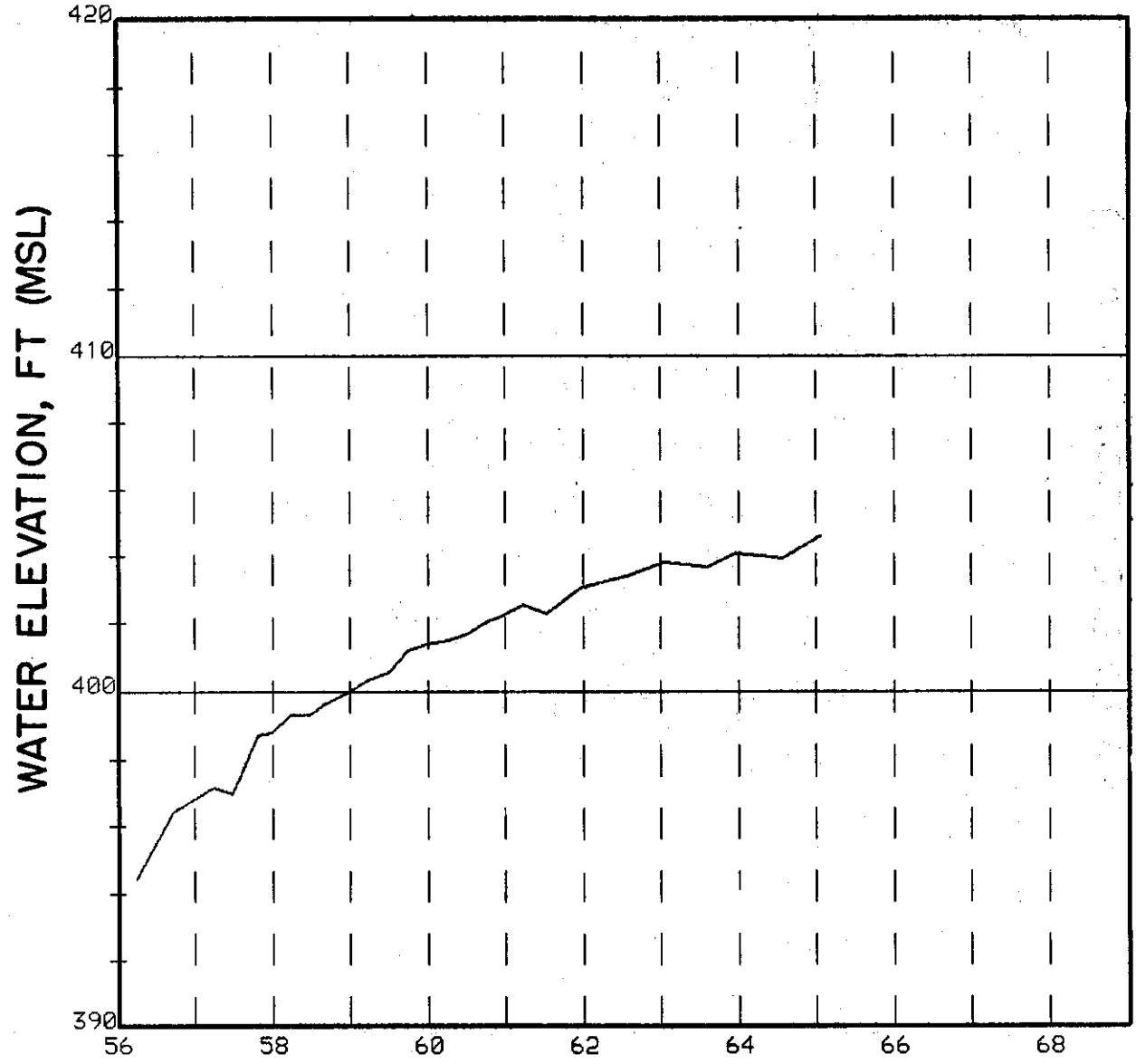


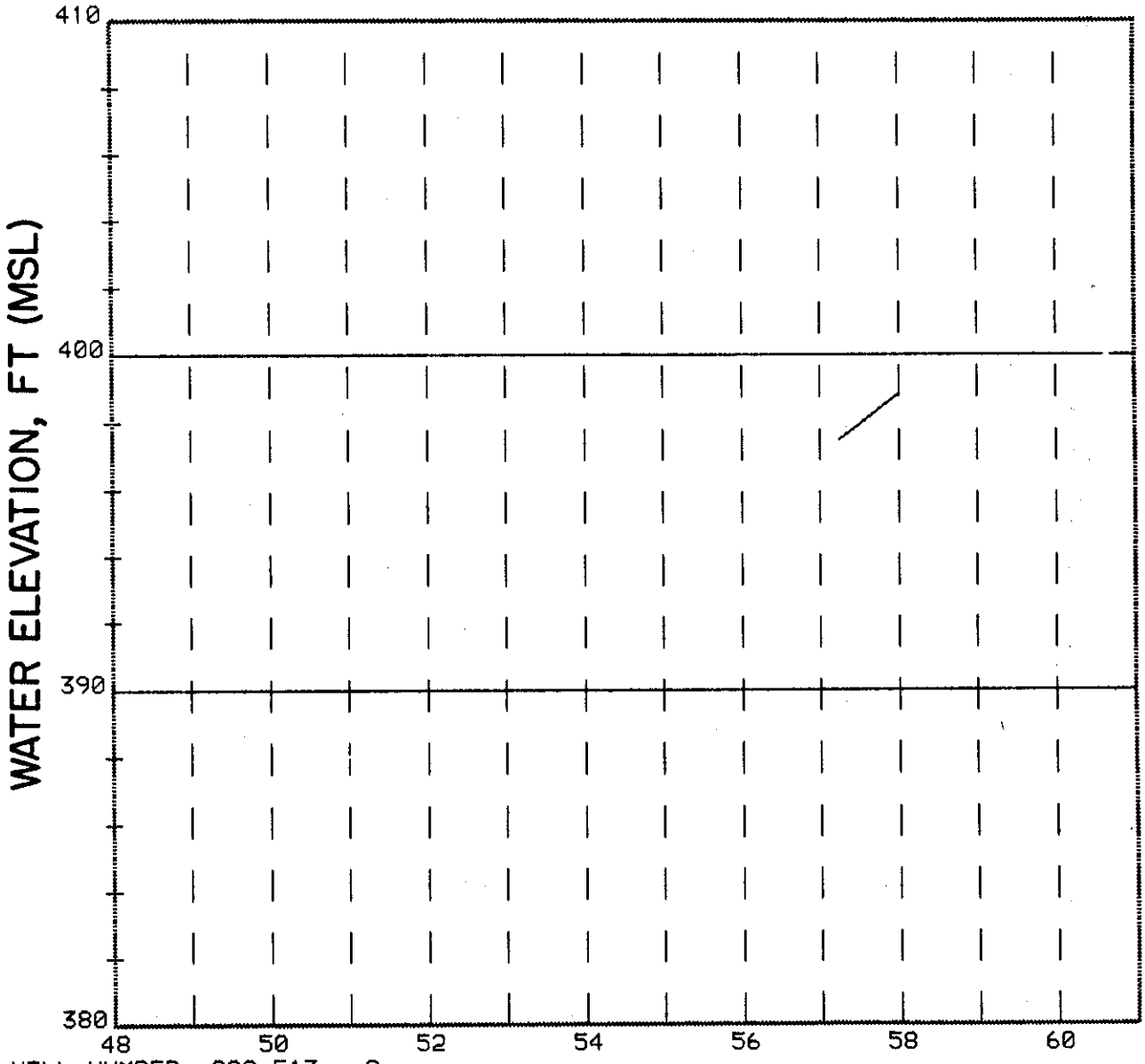
WELL NUMBER 199 N 12

CASING ELEVATION = 456.71



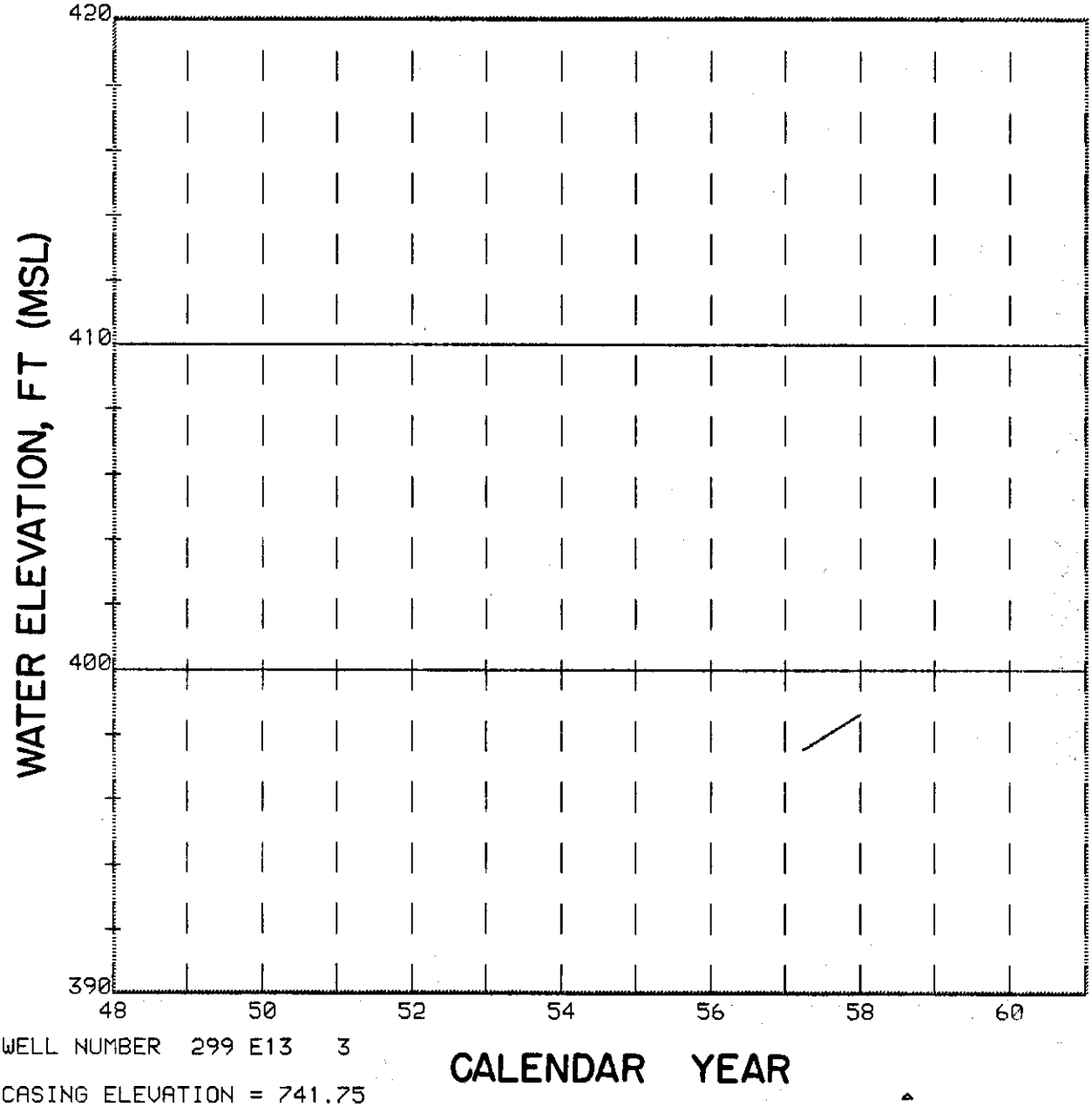
WELL NUMBER 299 E13 1

CASING ELEVATION = 741.90



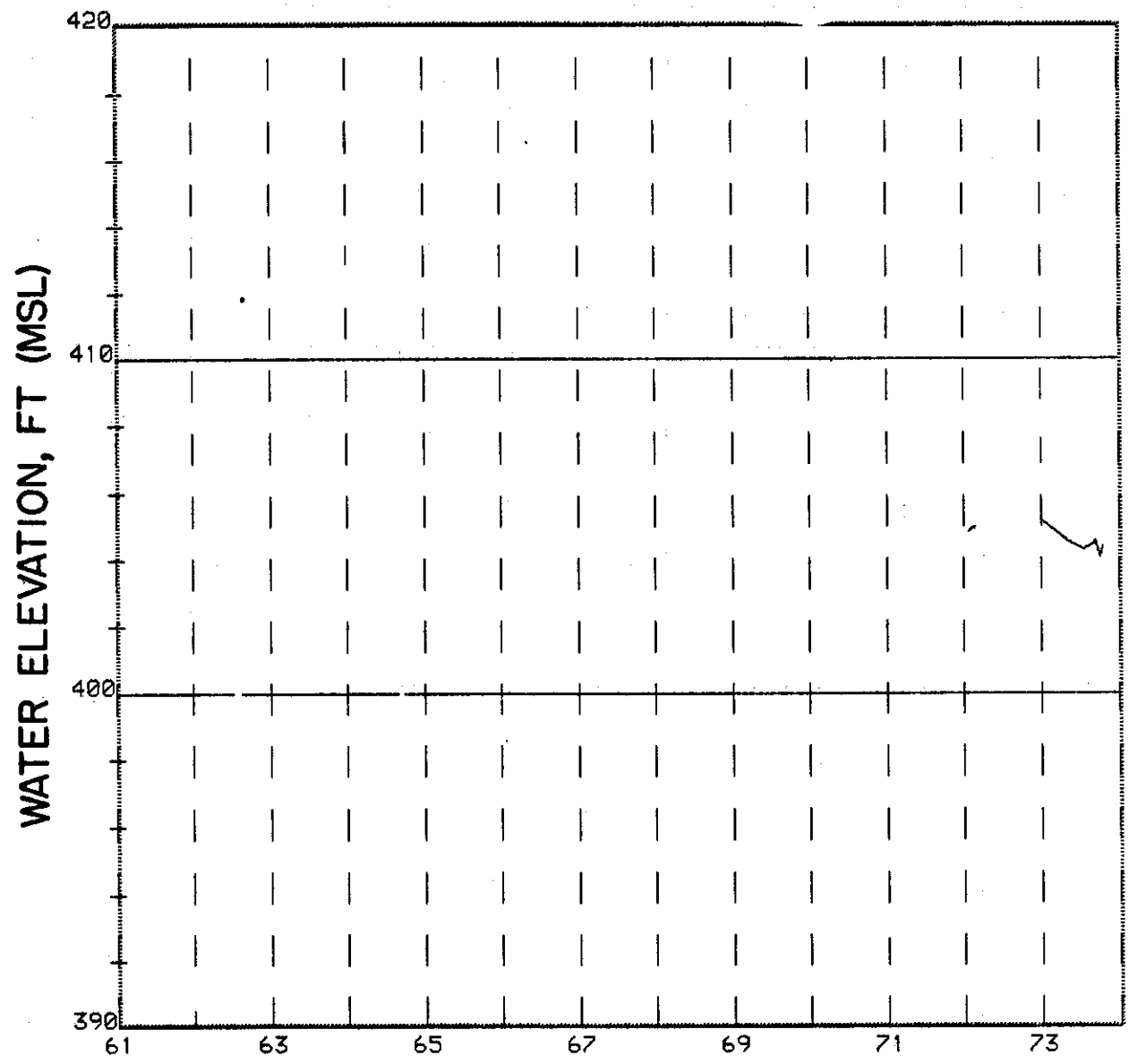
WELL NUMBER 299 E13 2

CASING ELEVATION = 743.49



WELL NUMBER 299 E13 3

CASING ELEVATION = 741.75



WELL NUMBER 299 E13 3

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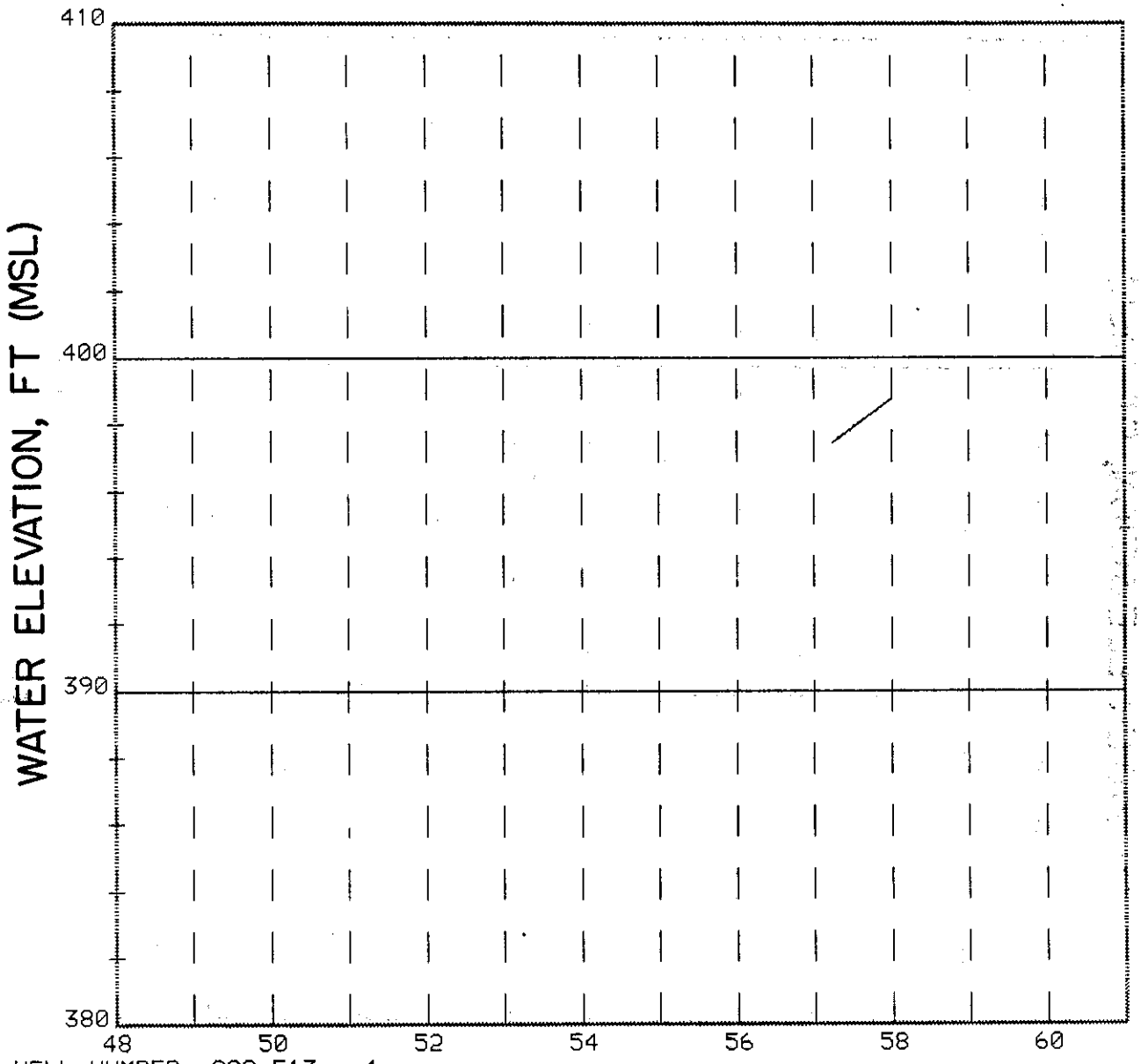

WELL NUMBER 299 E13 4

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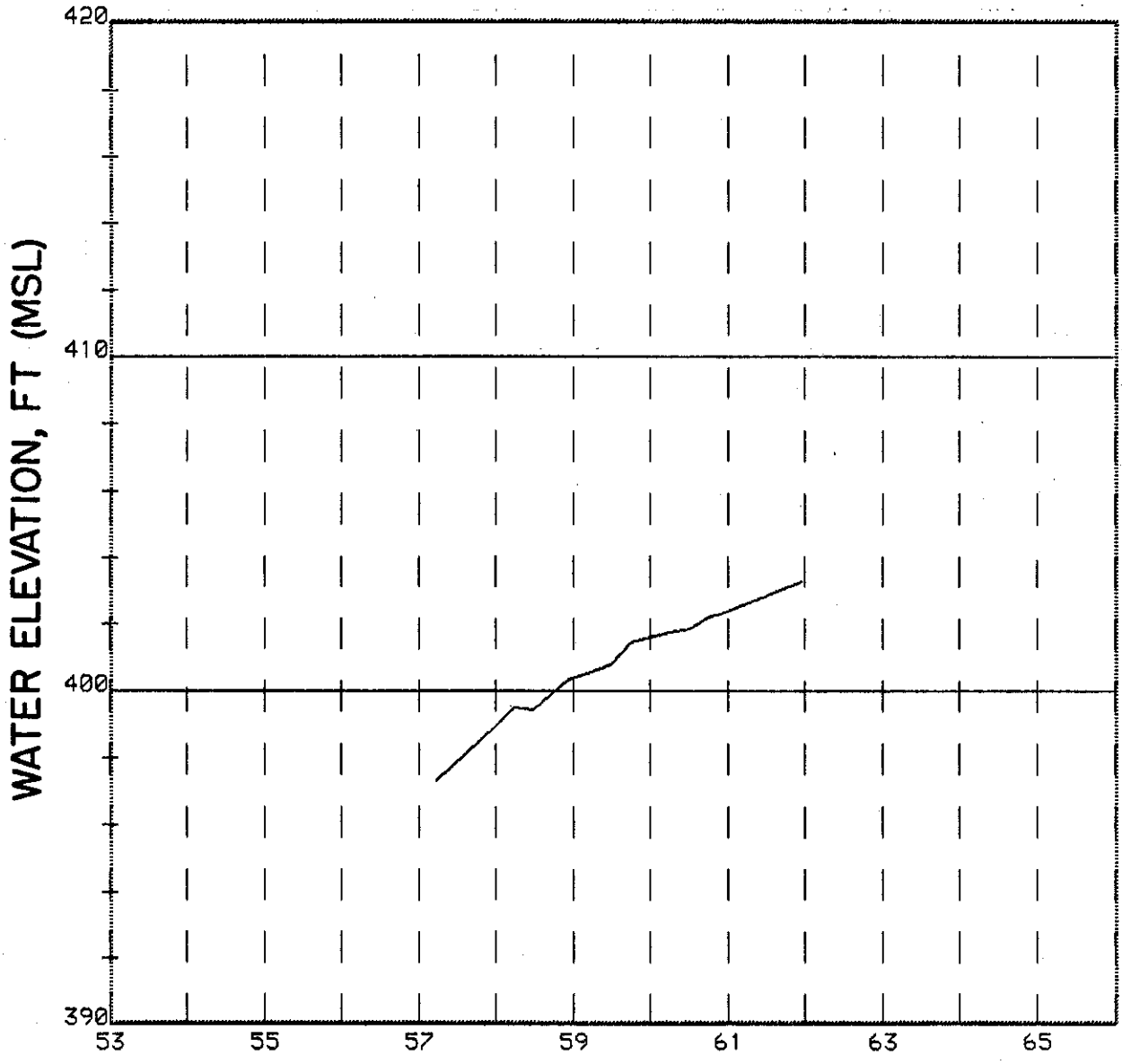

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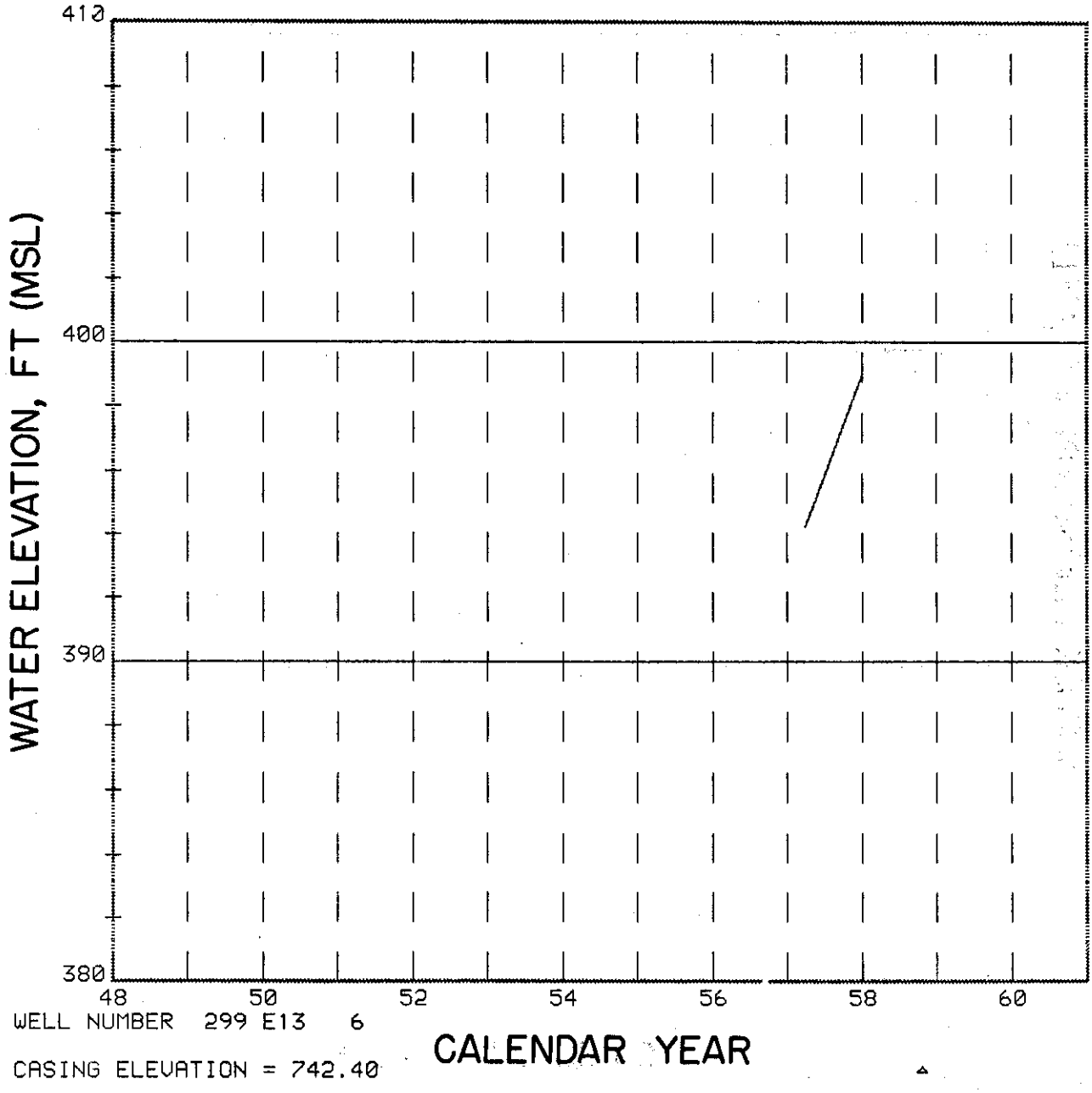

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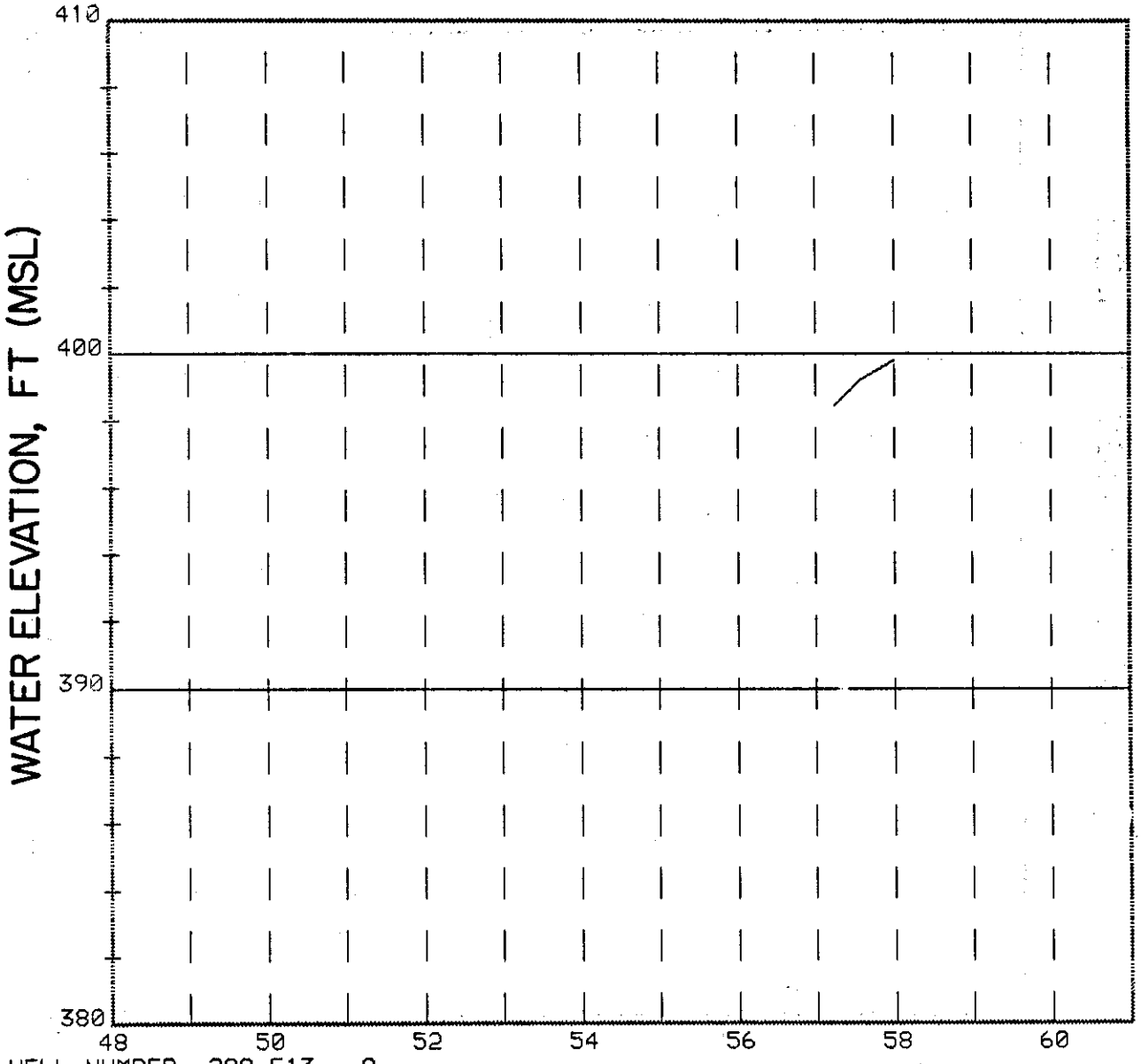

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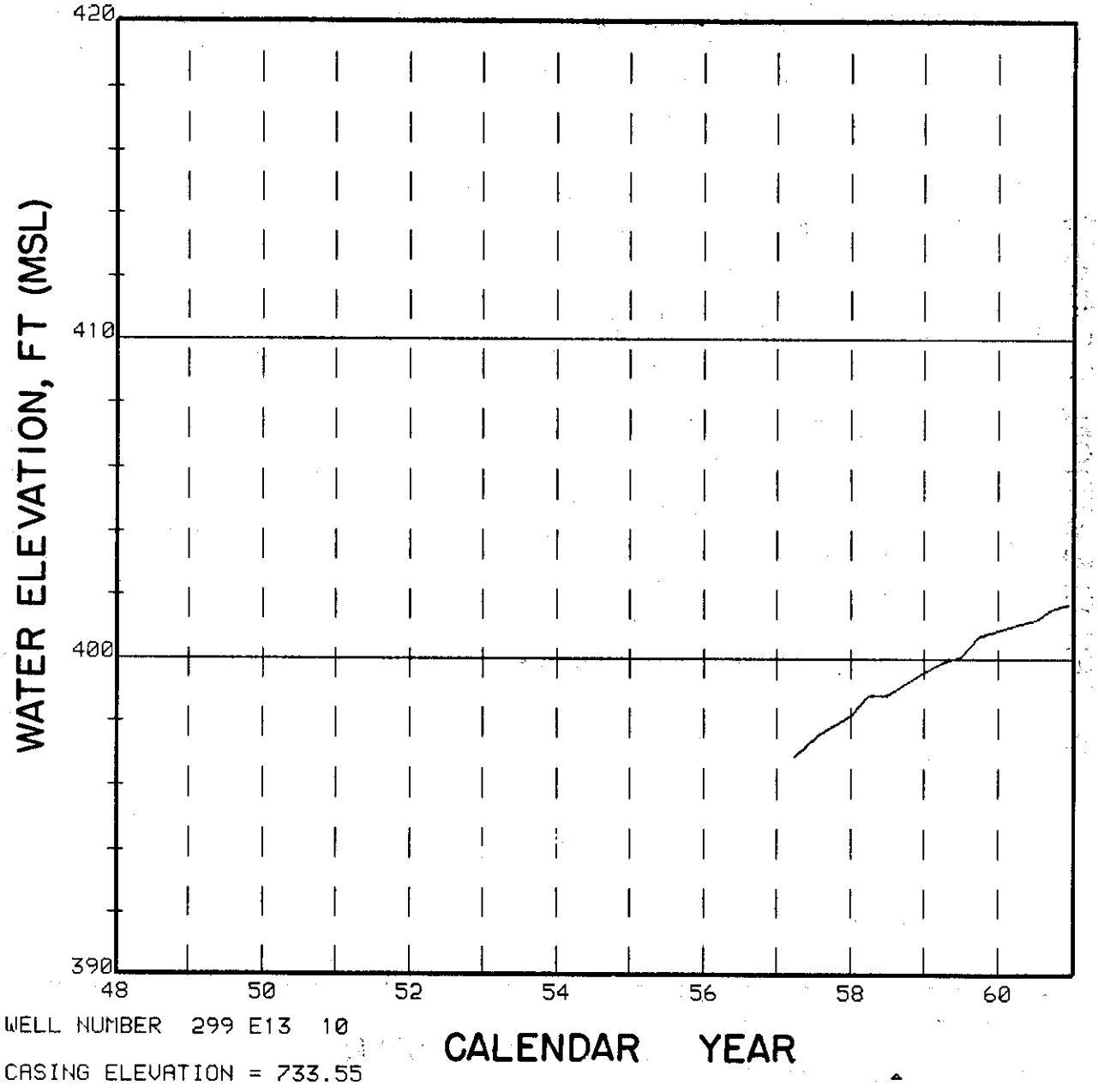

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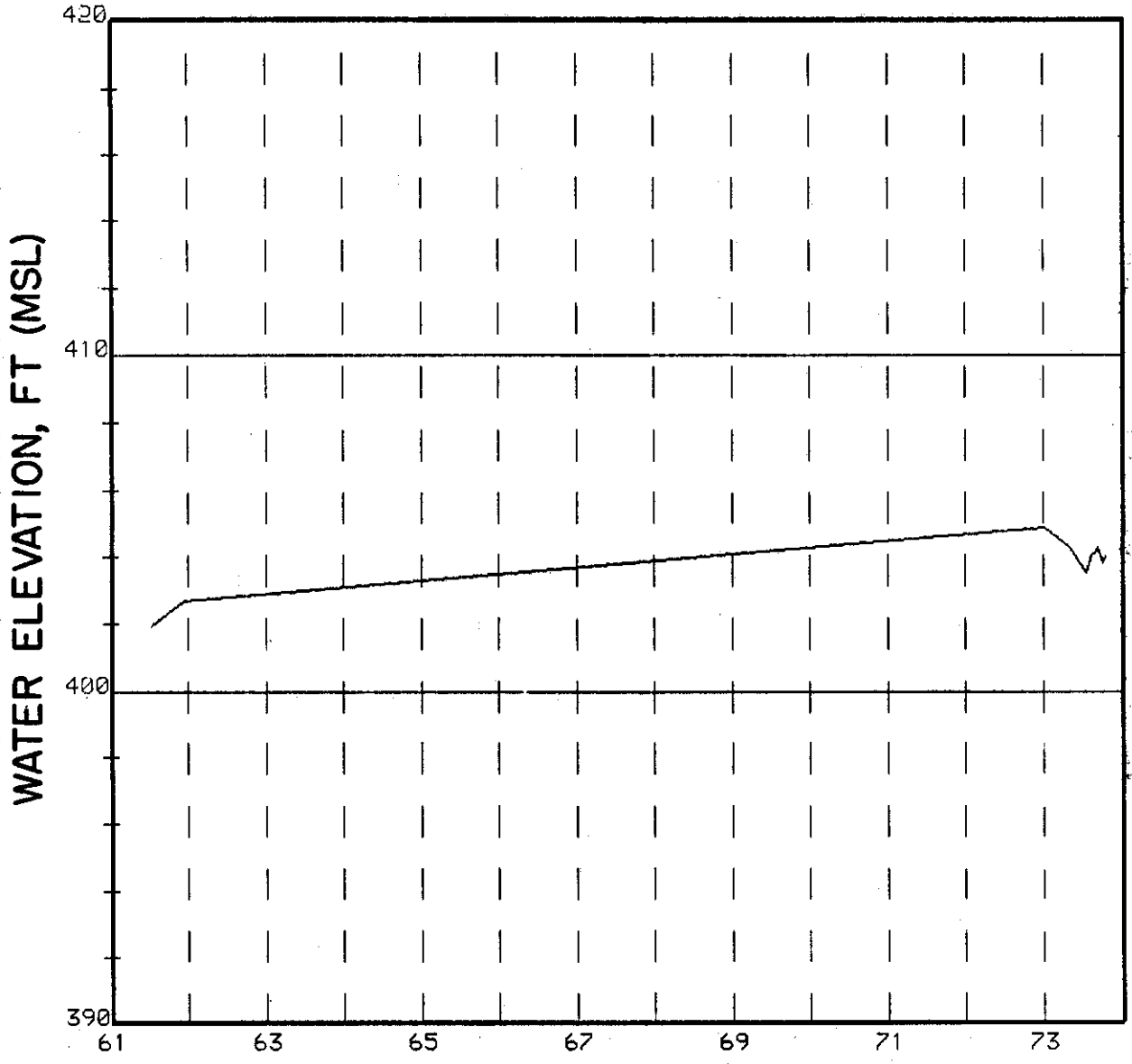

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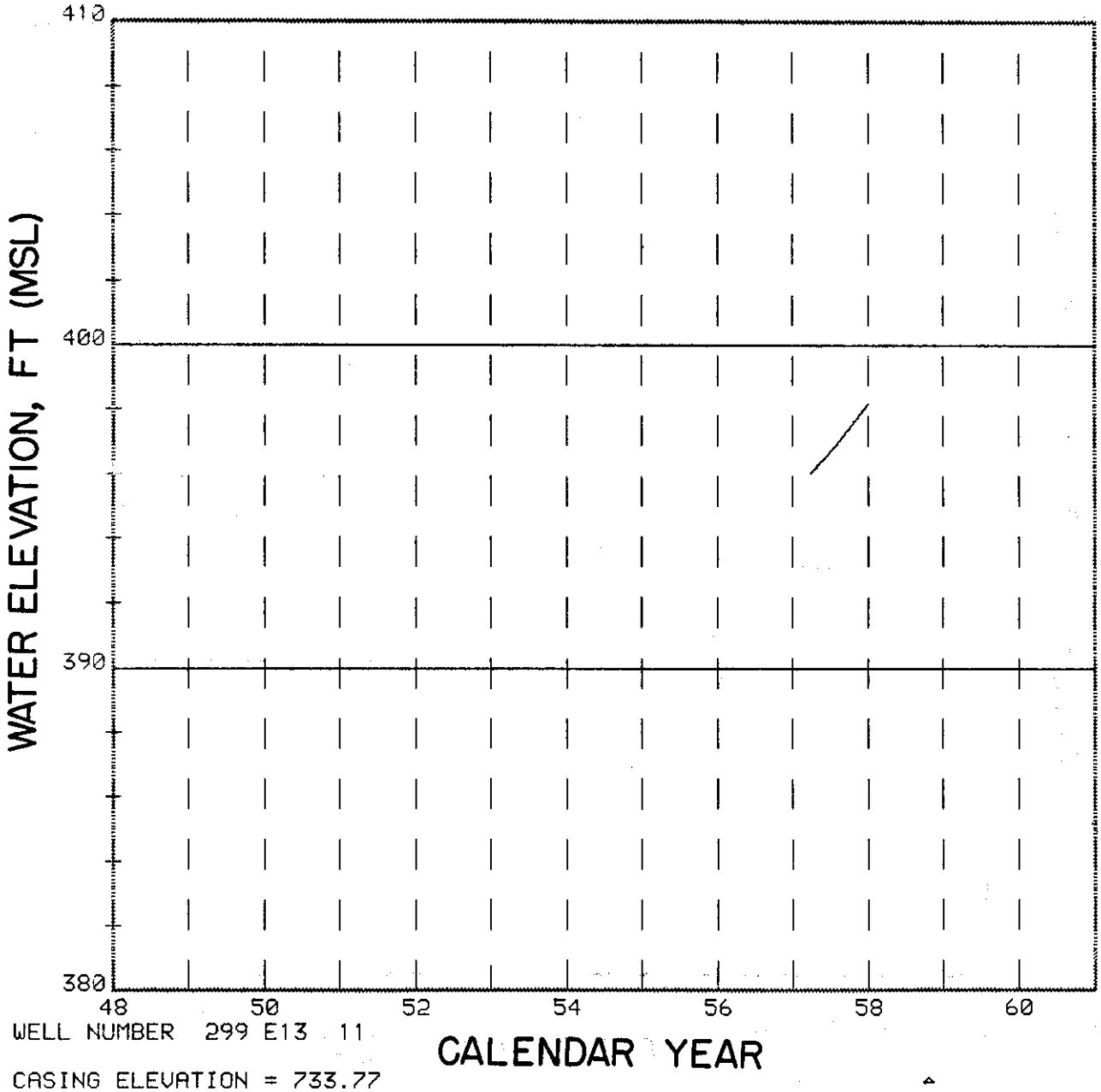

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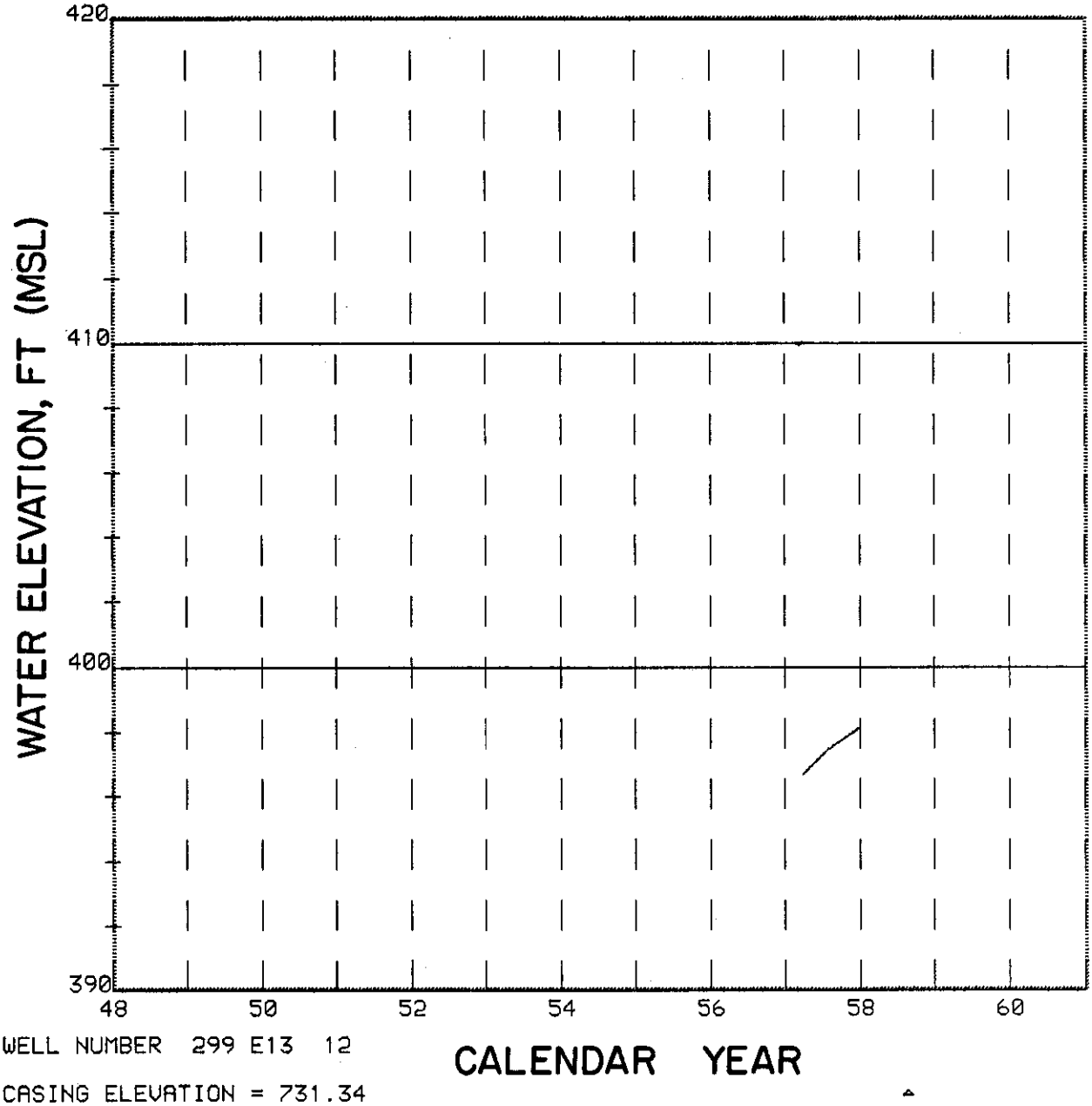

WELL NUMBER 299 E13 12

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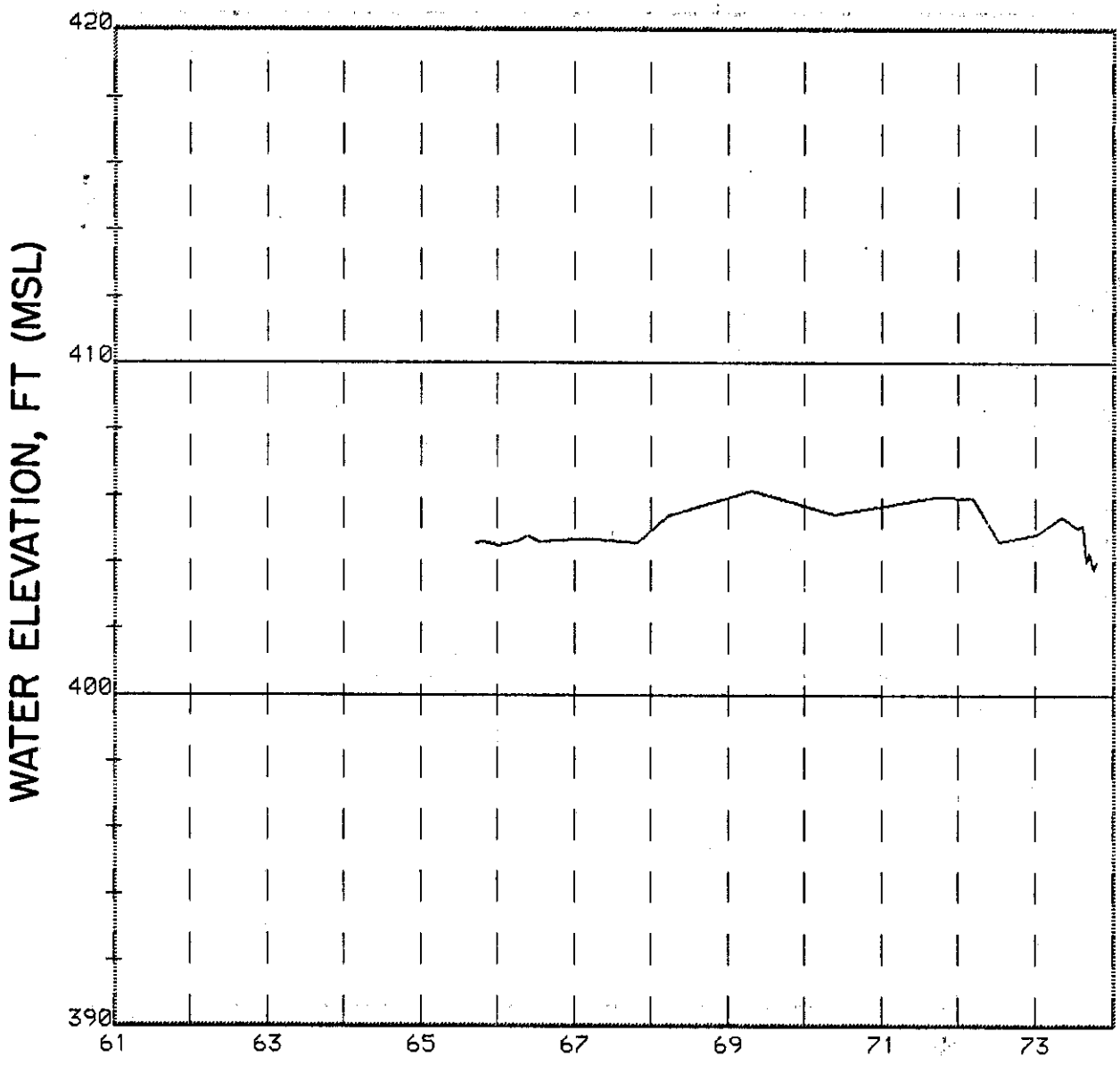

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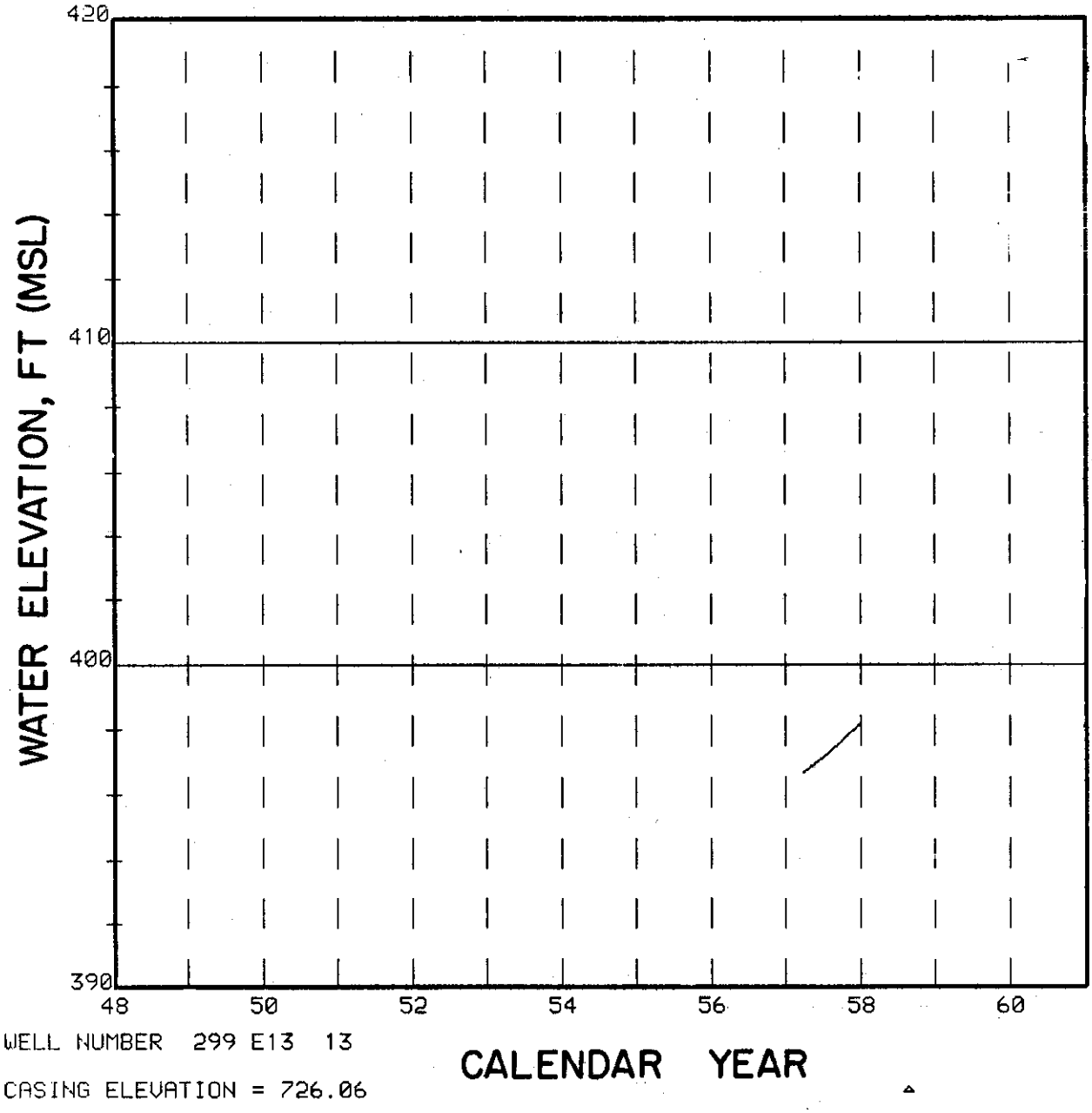

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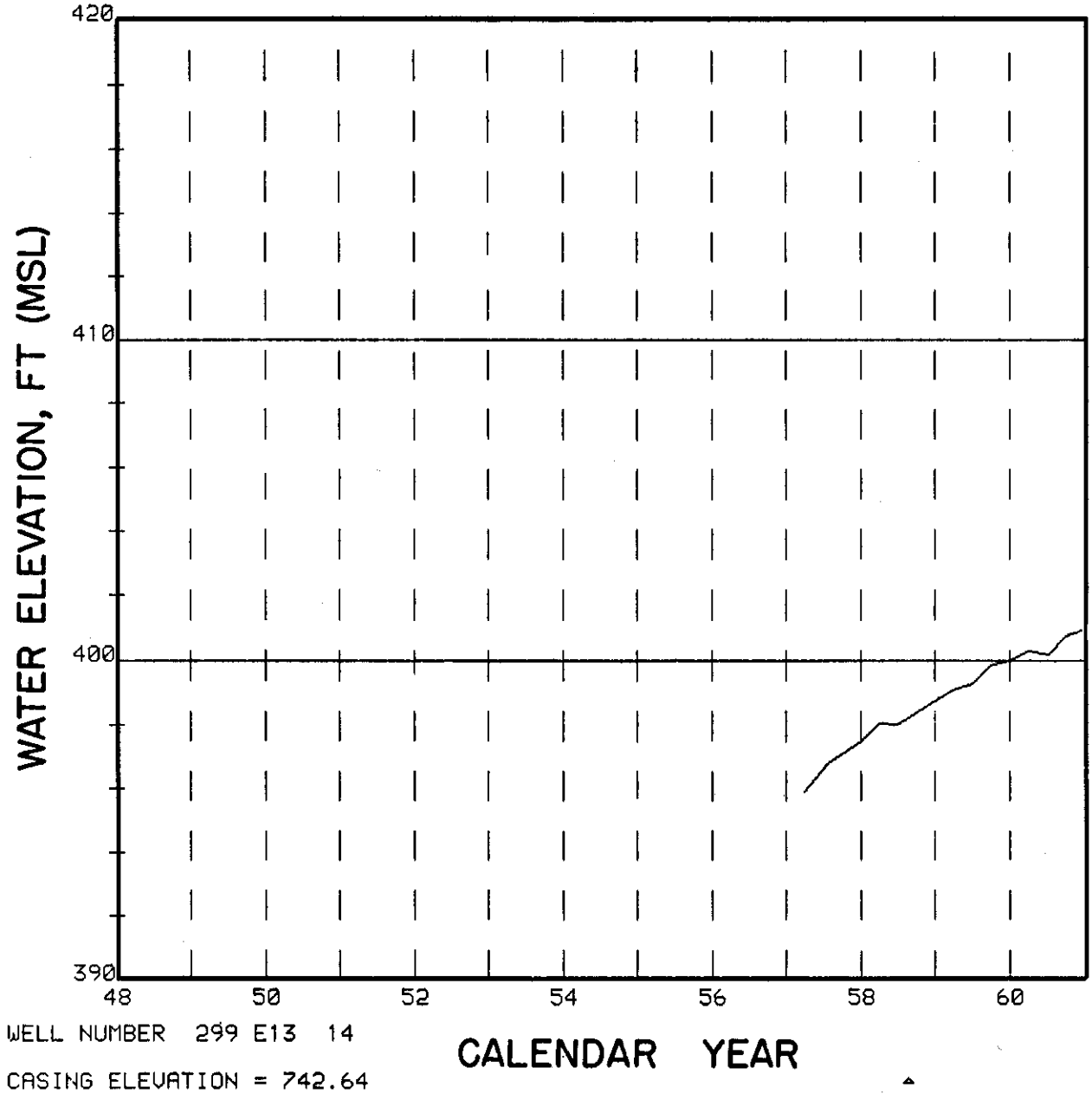

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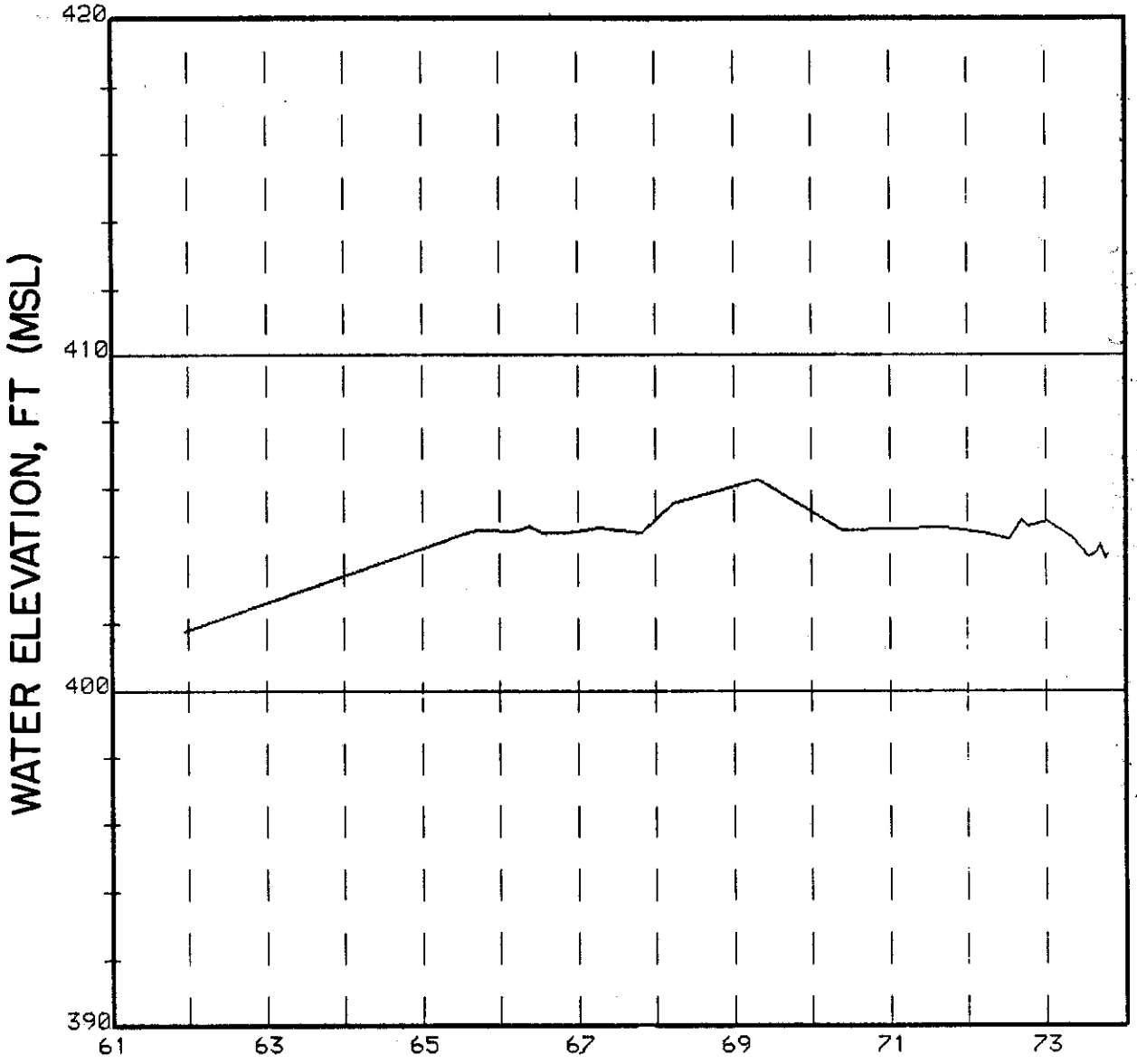

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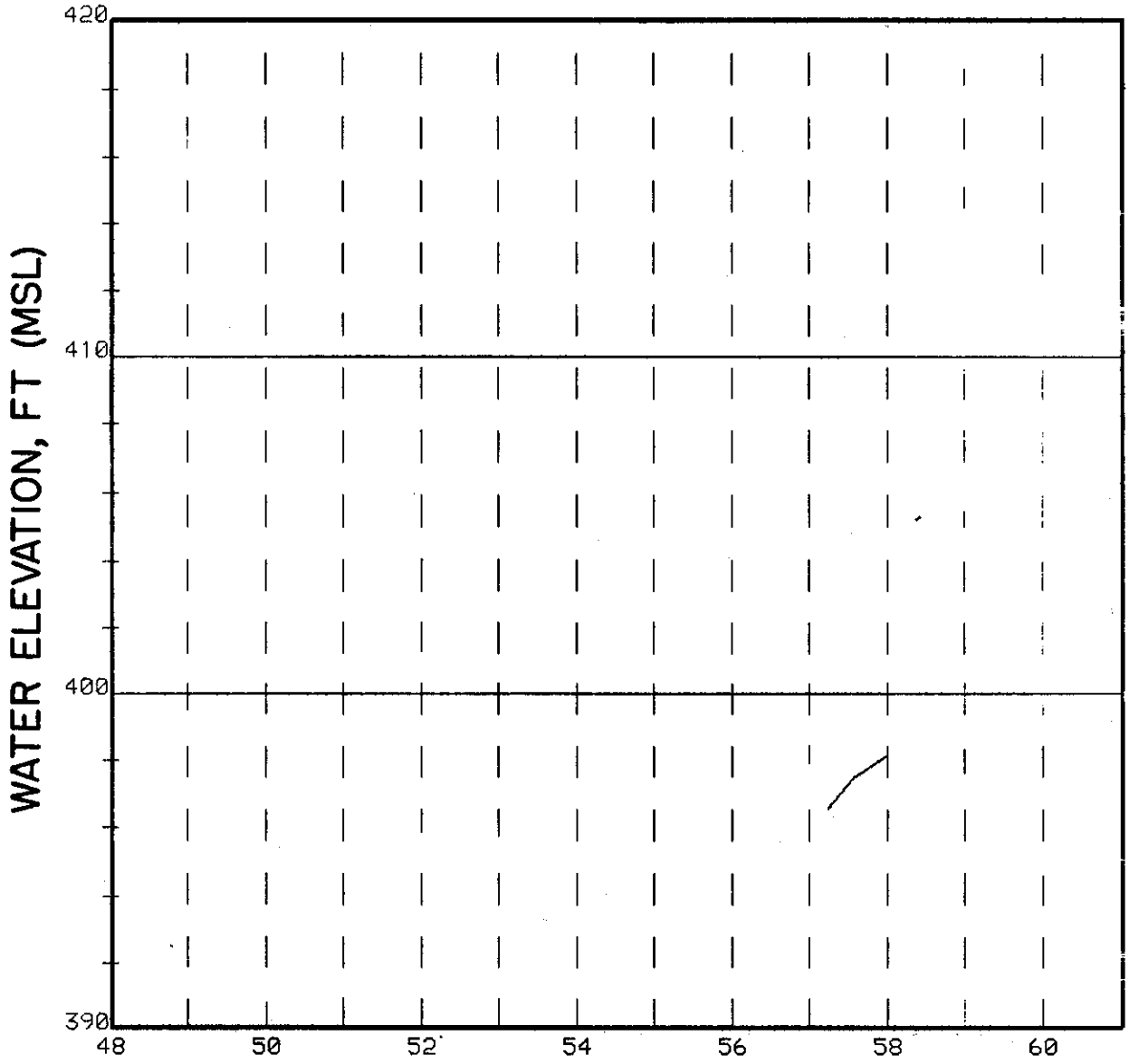

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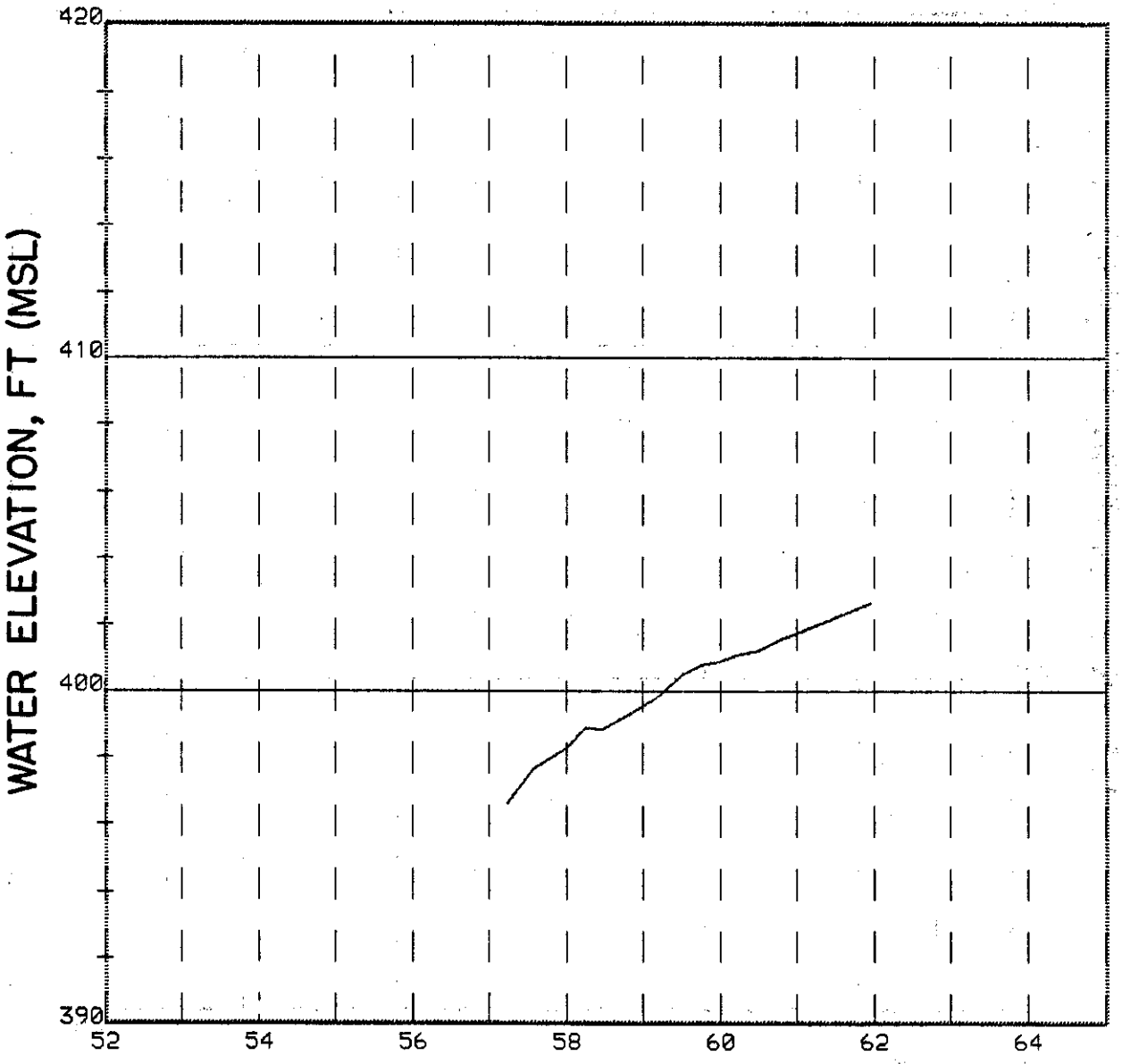

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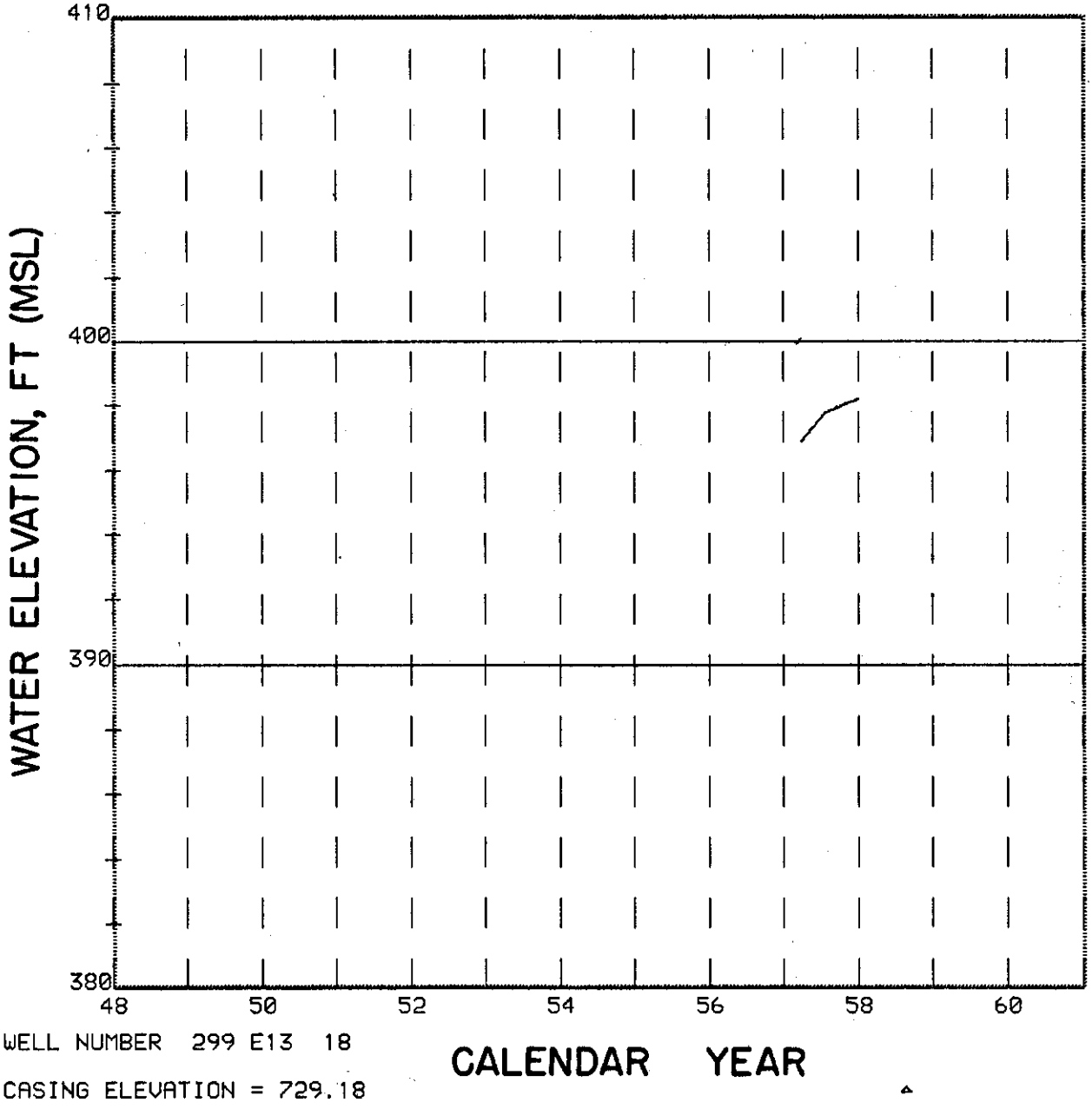

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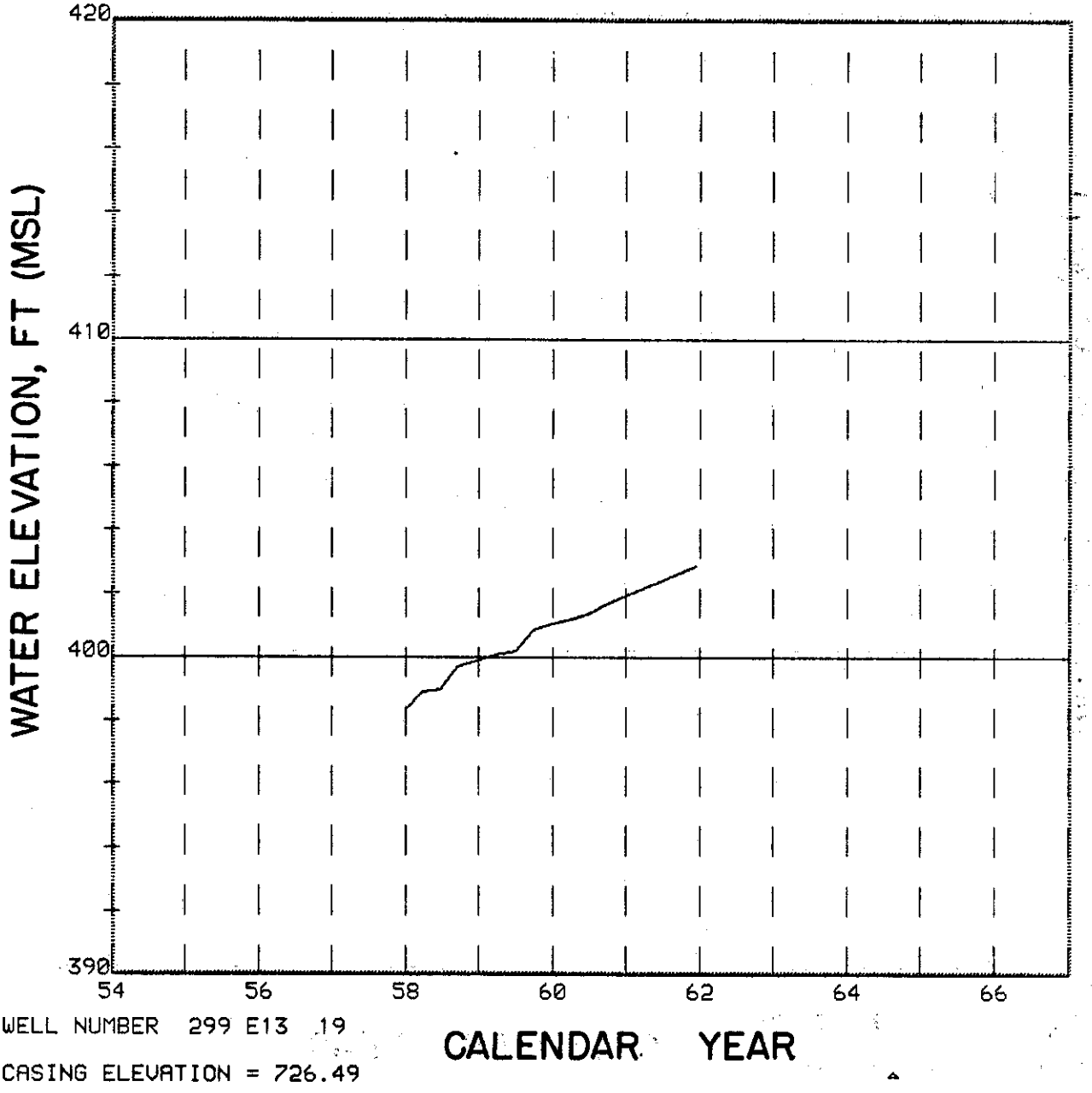

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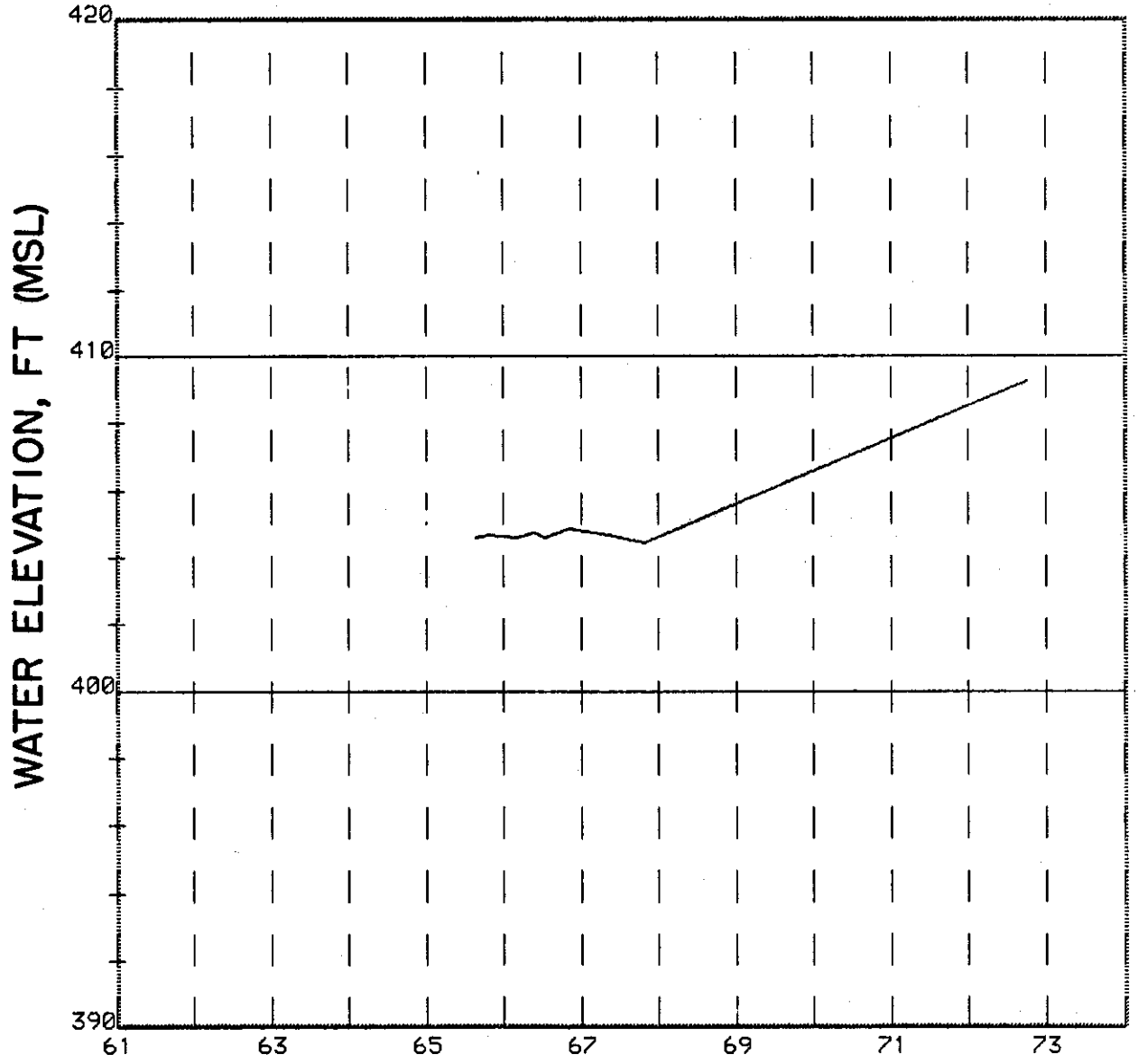

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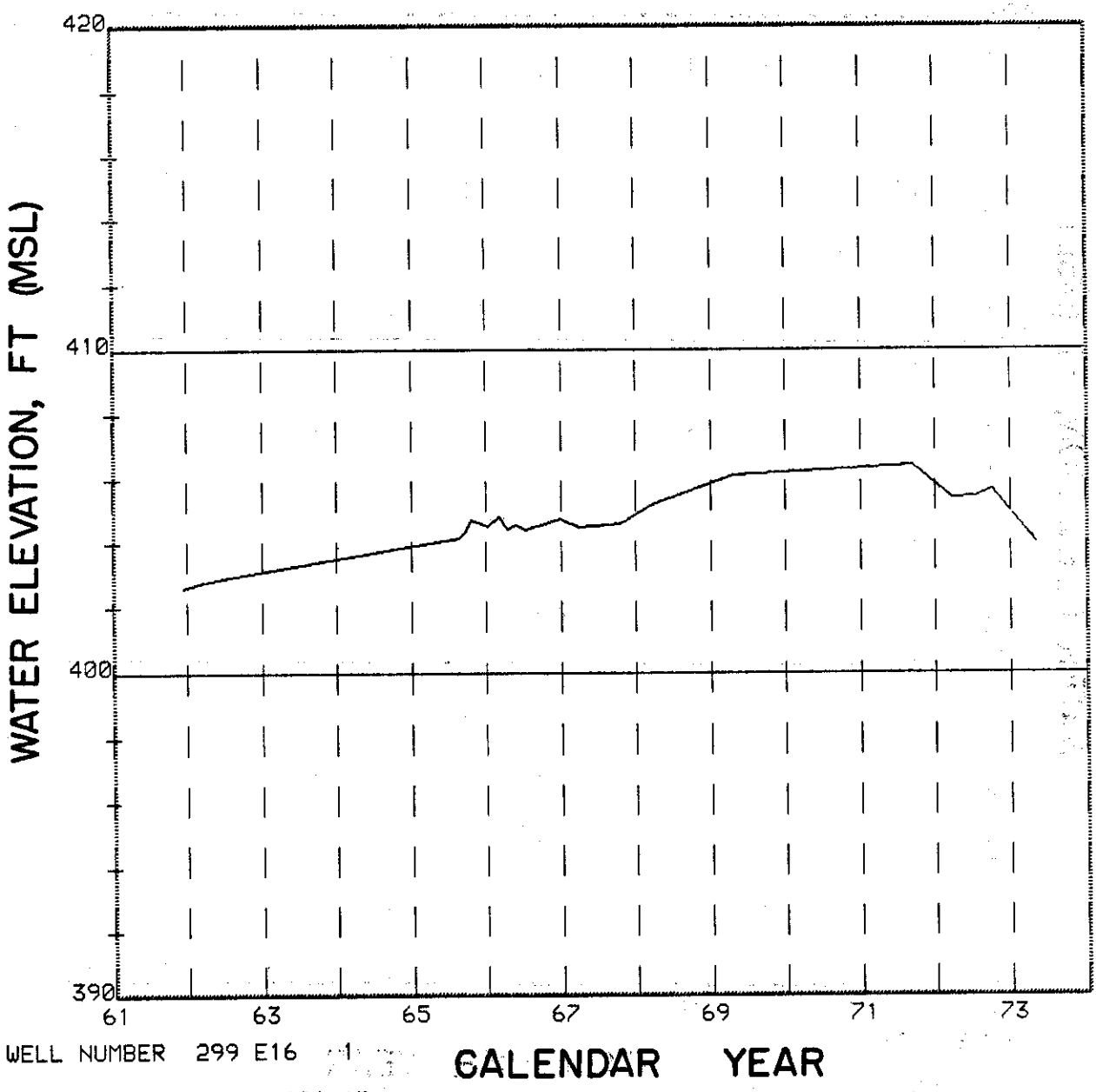

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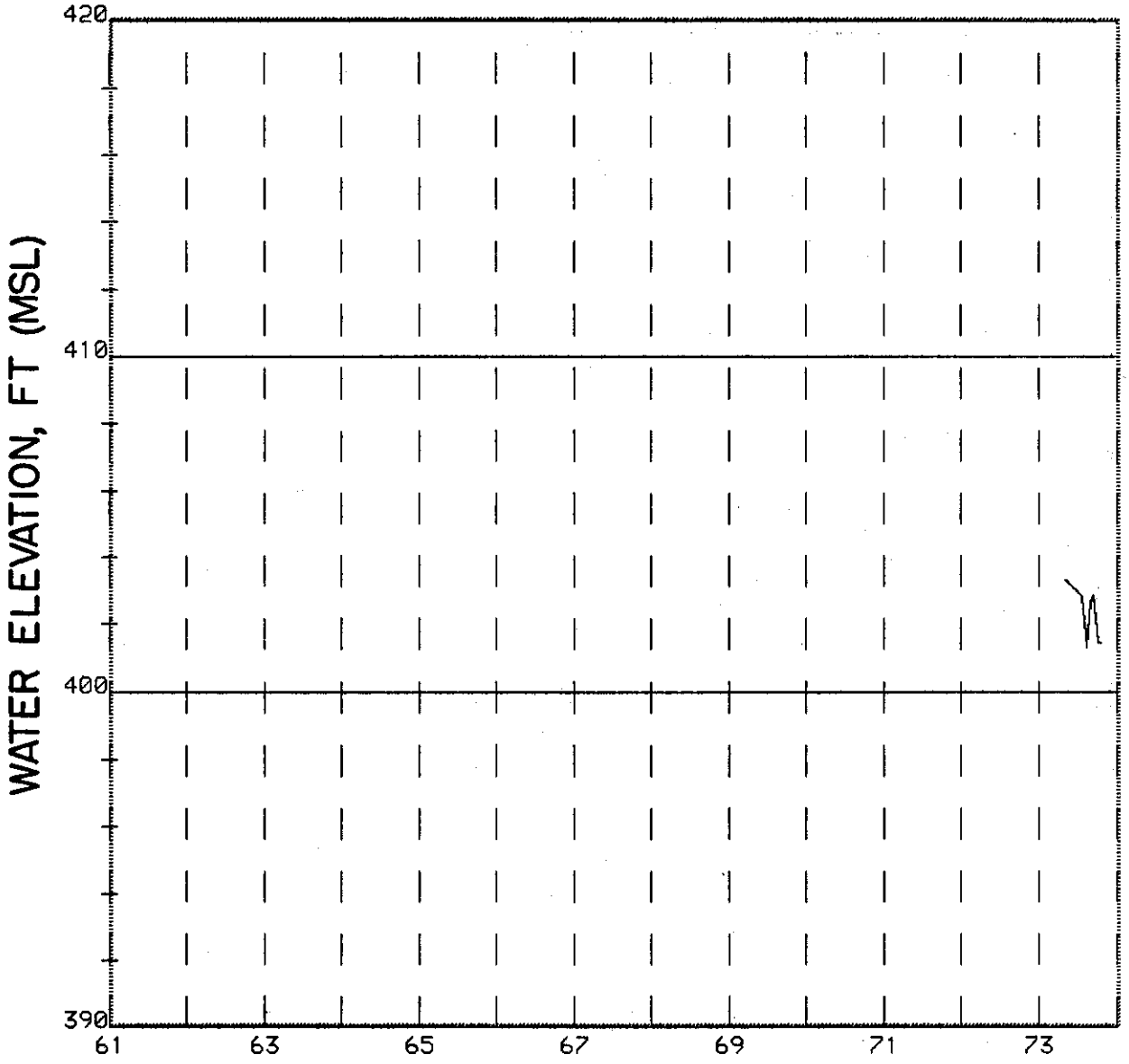

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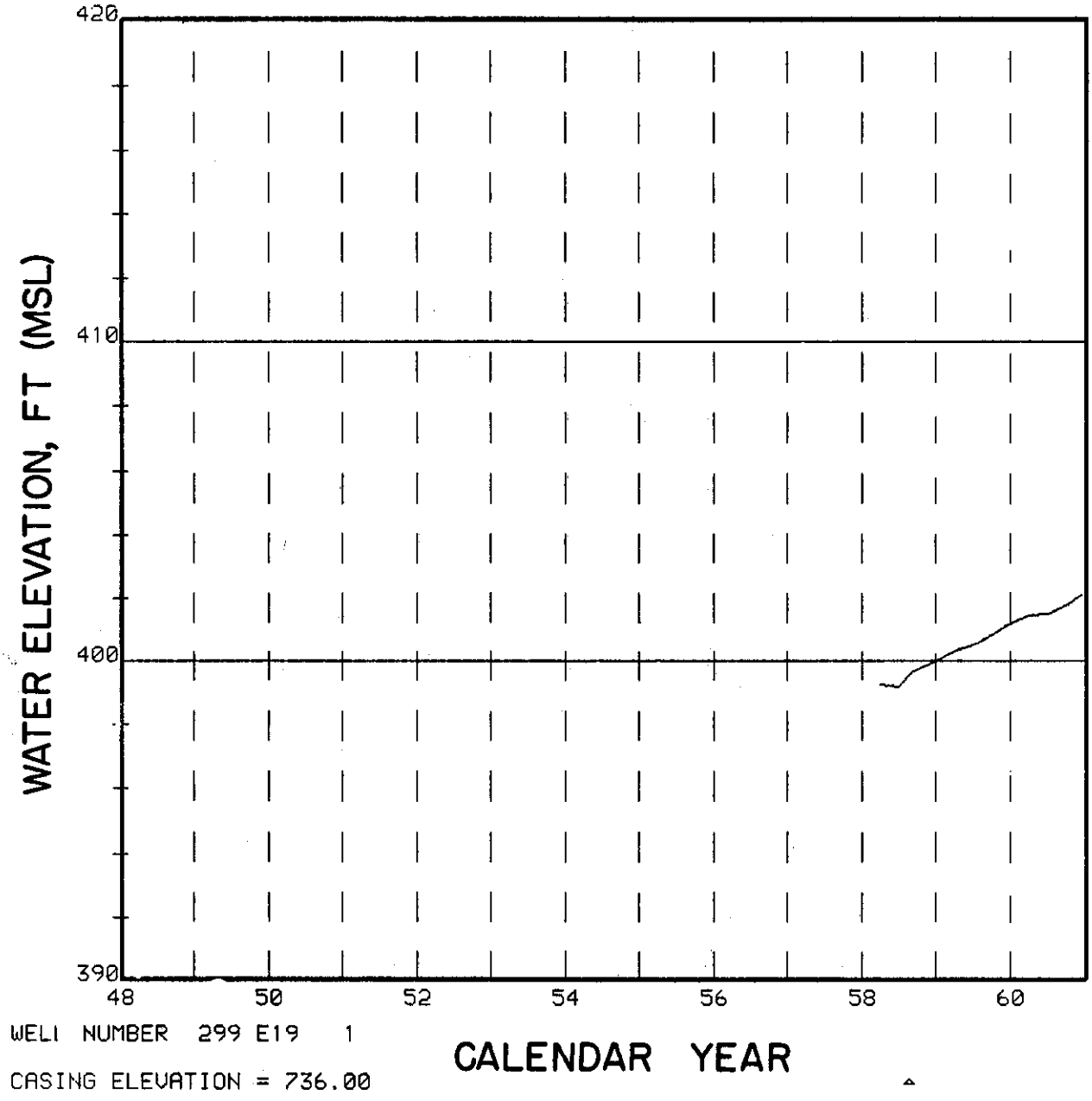

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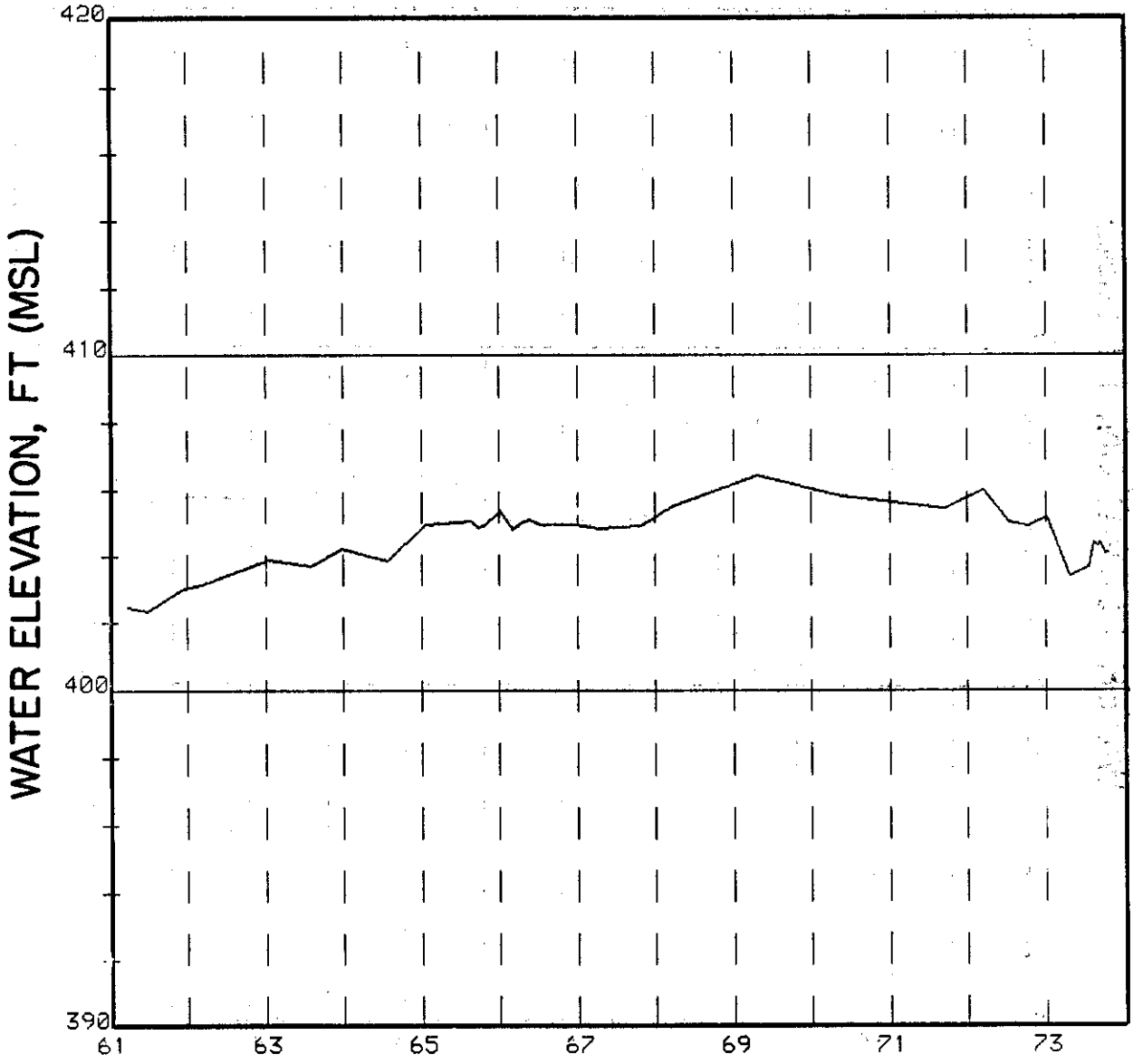

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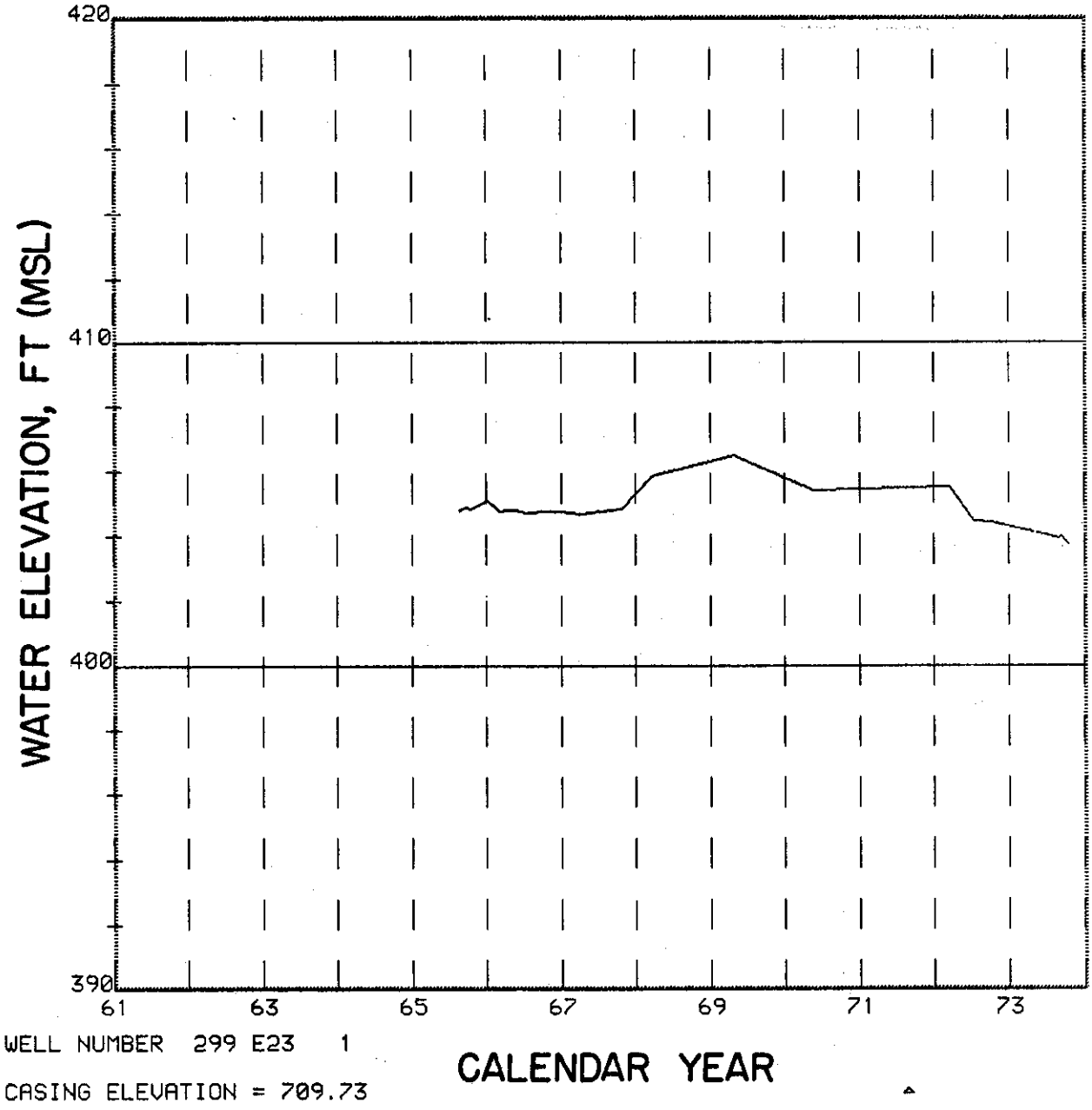

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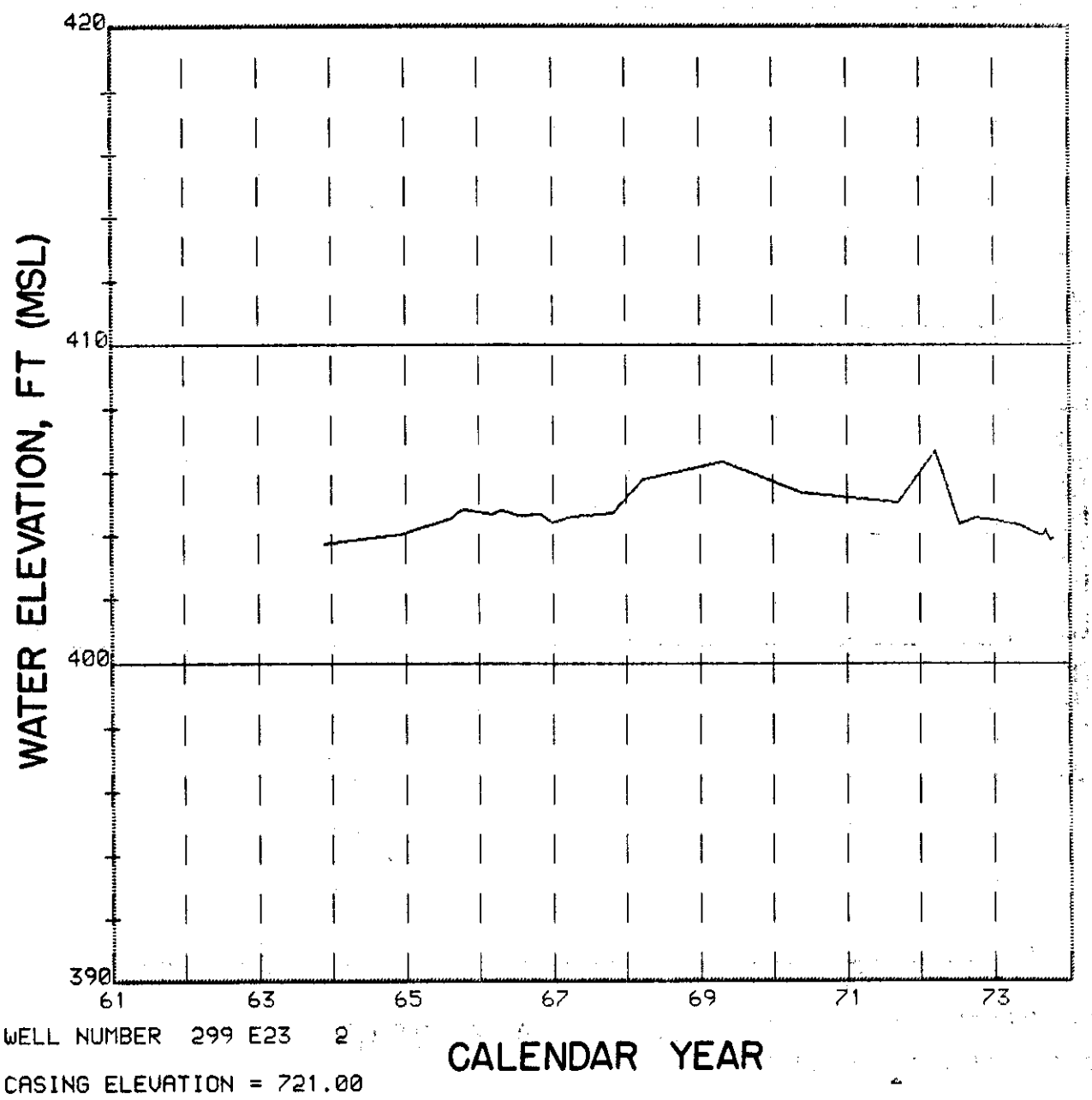

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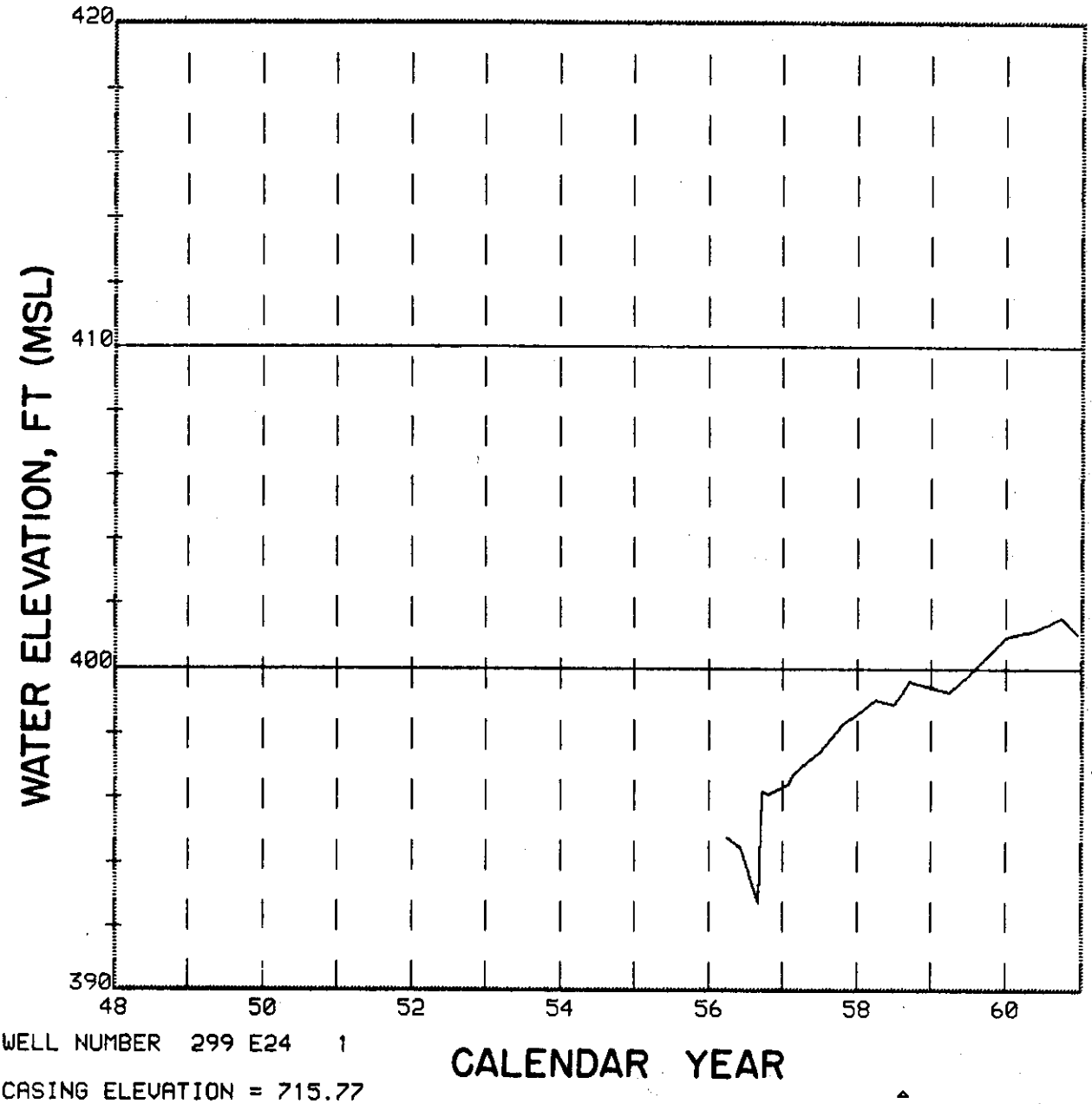

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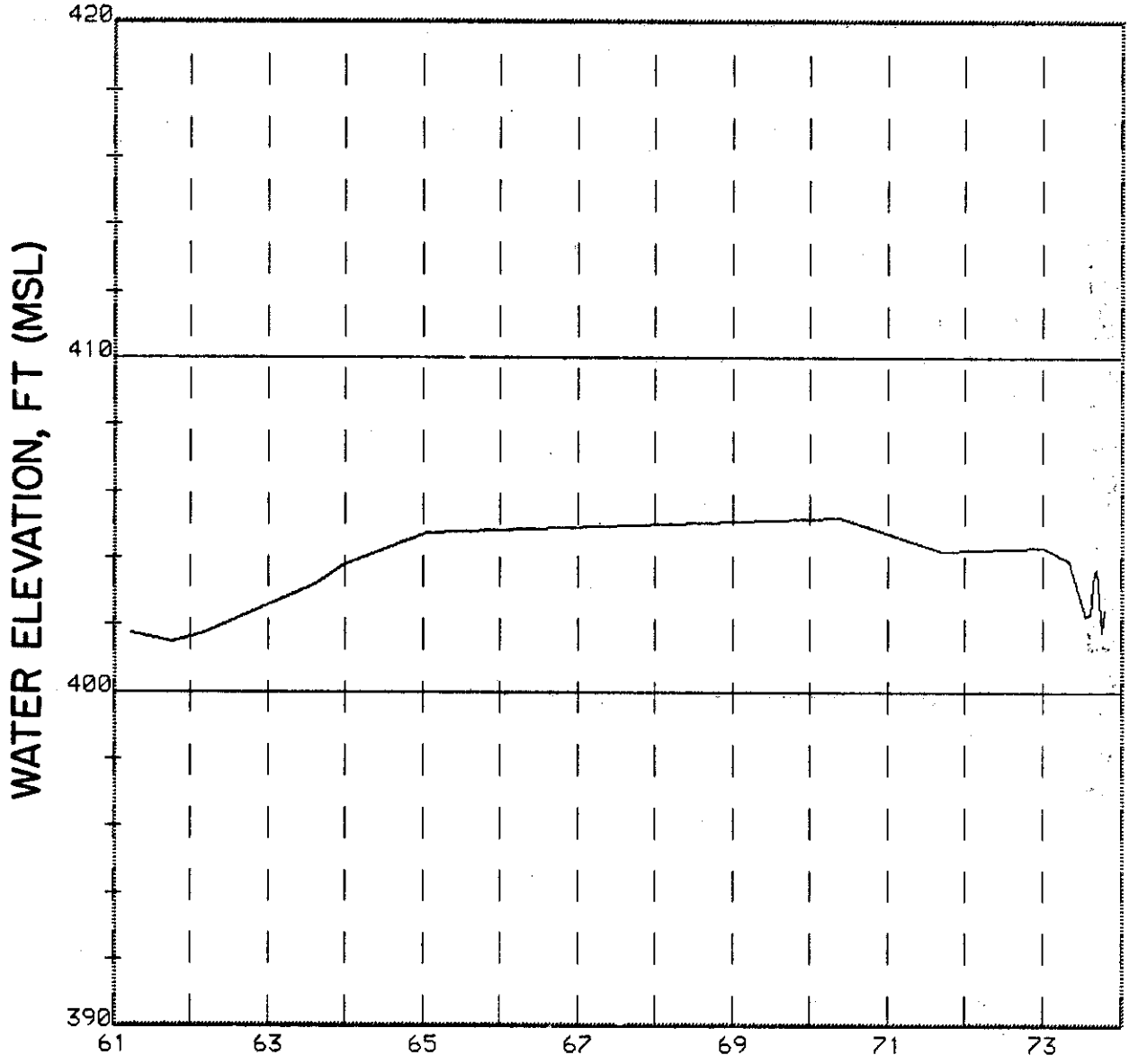

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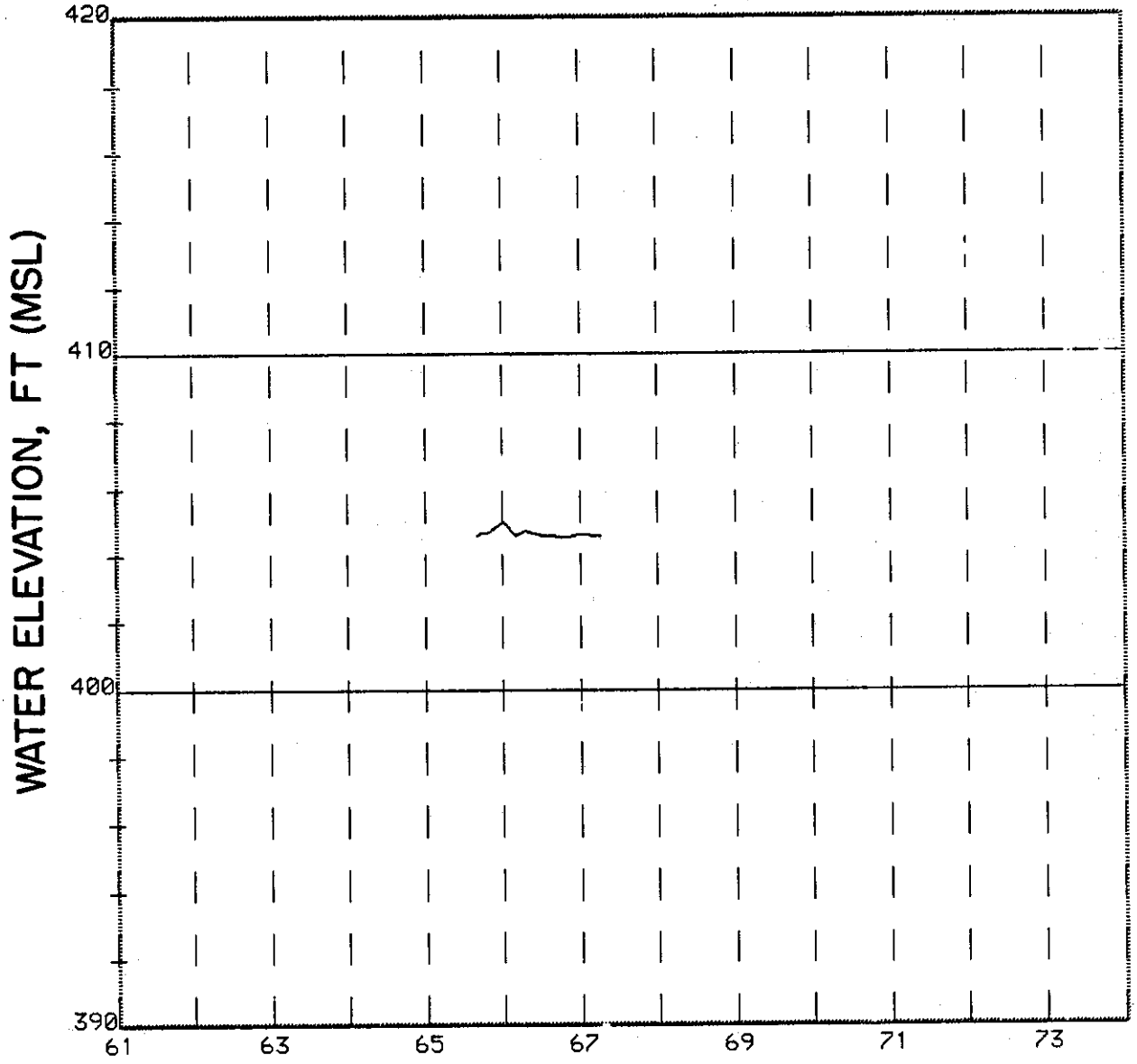

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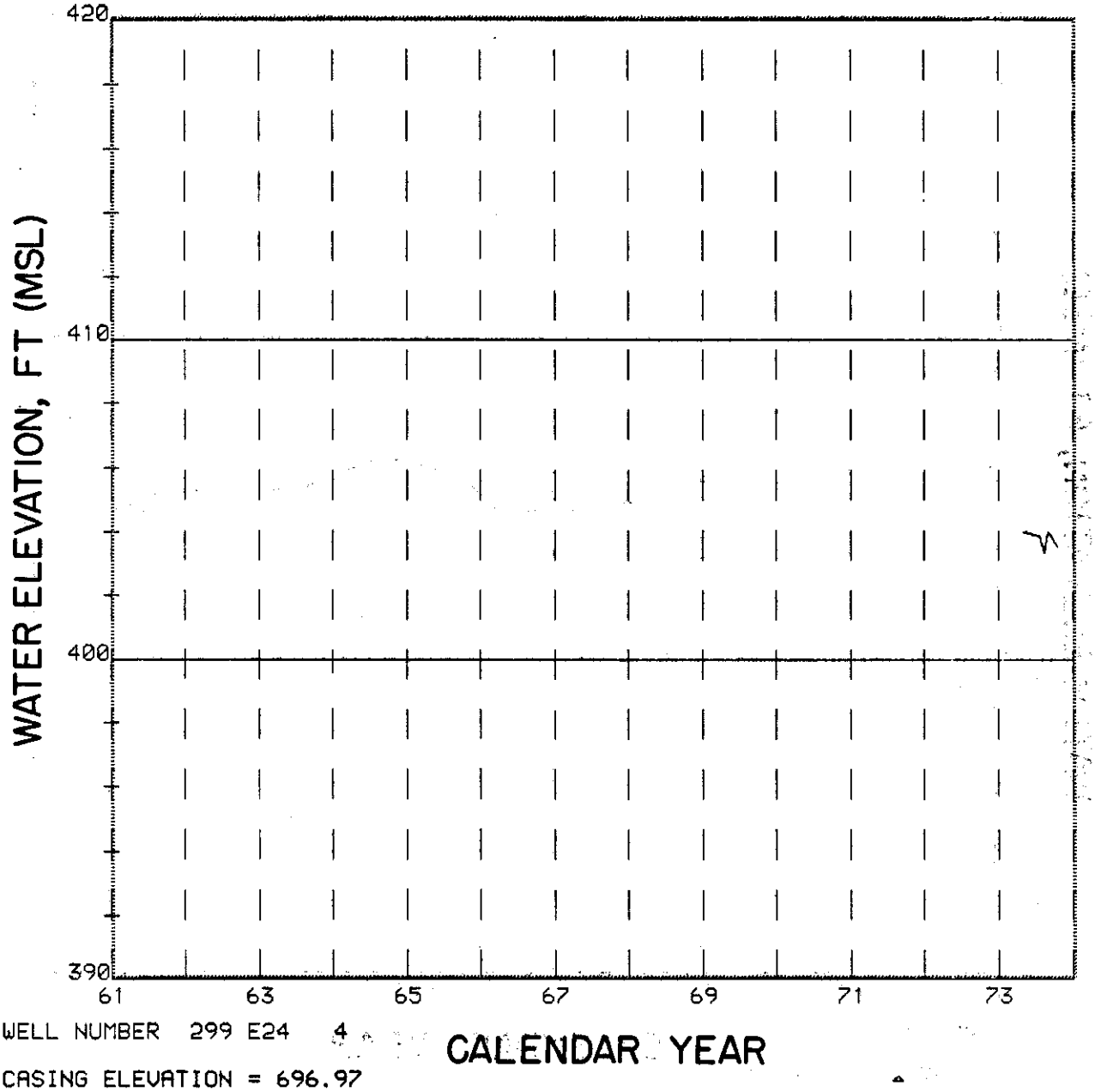

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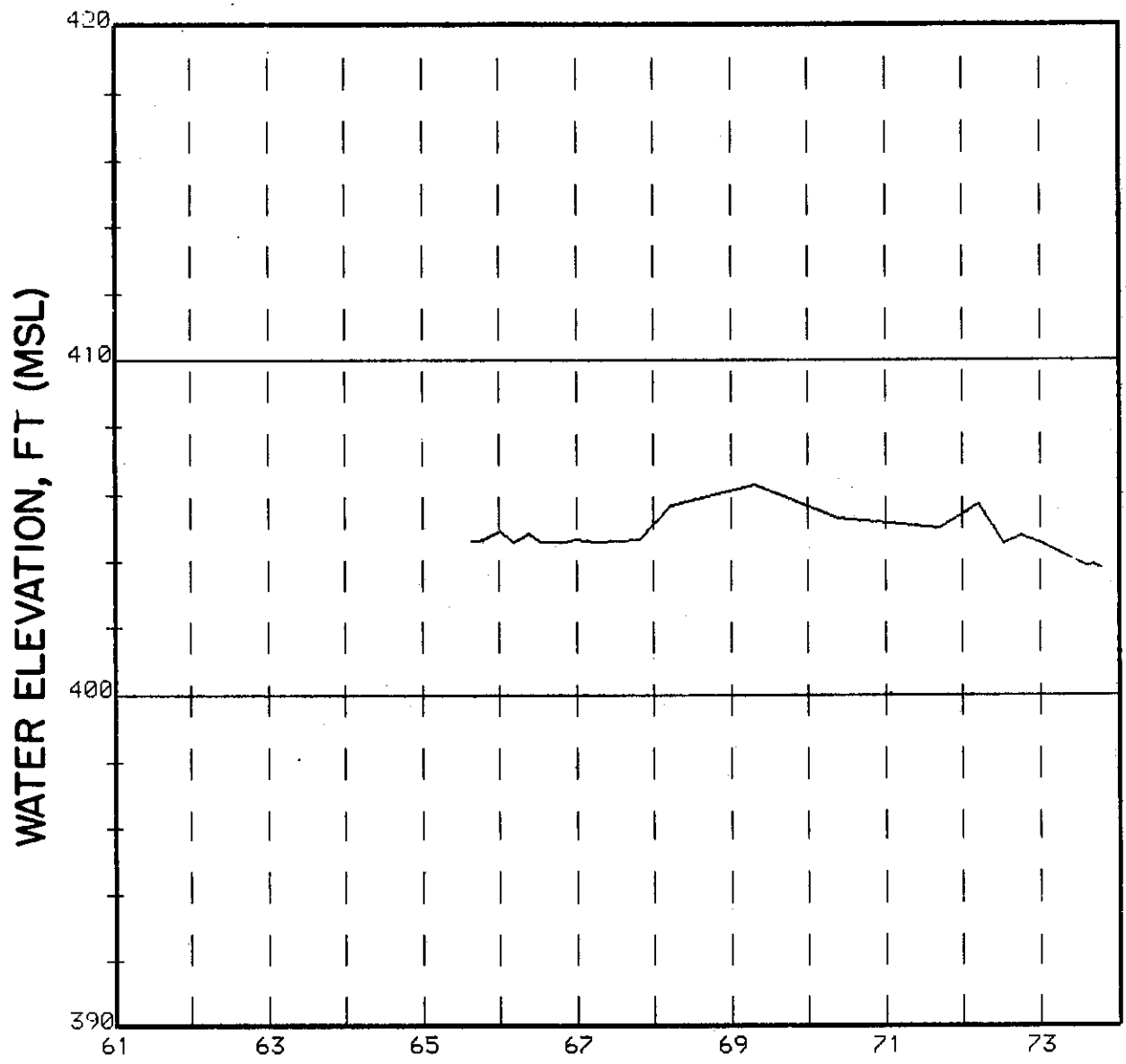

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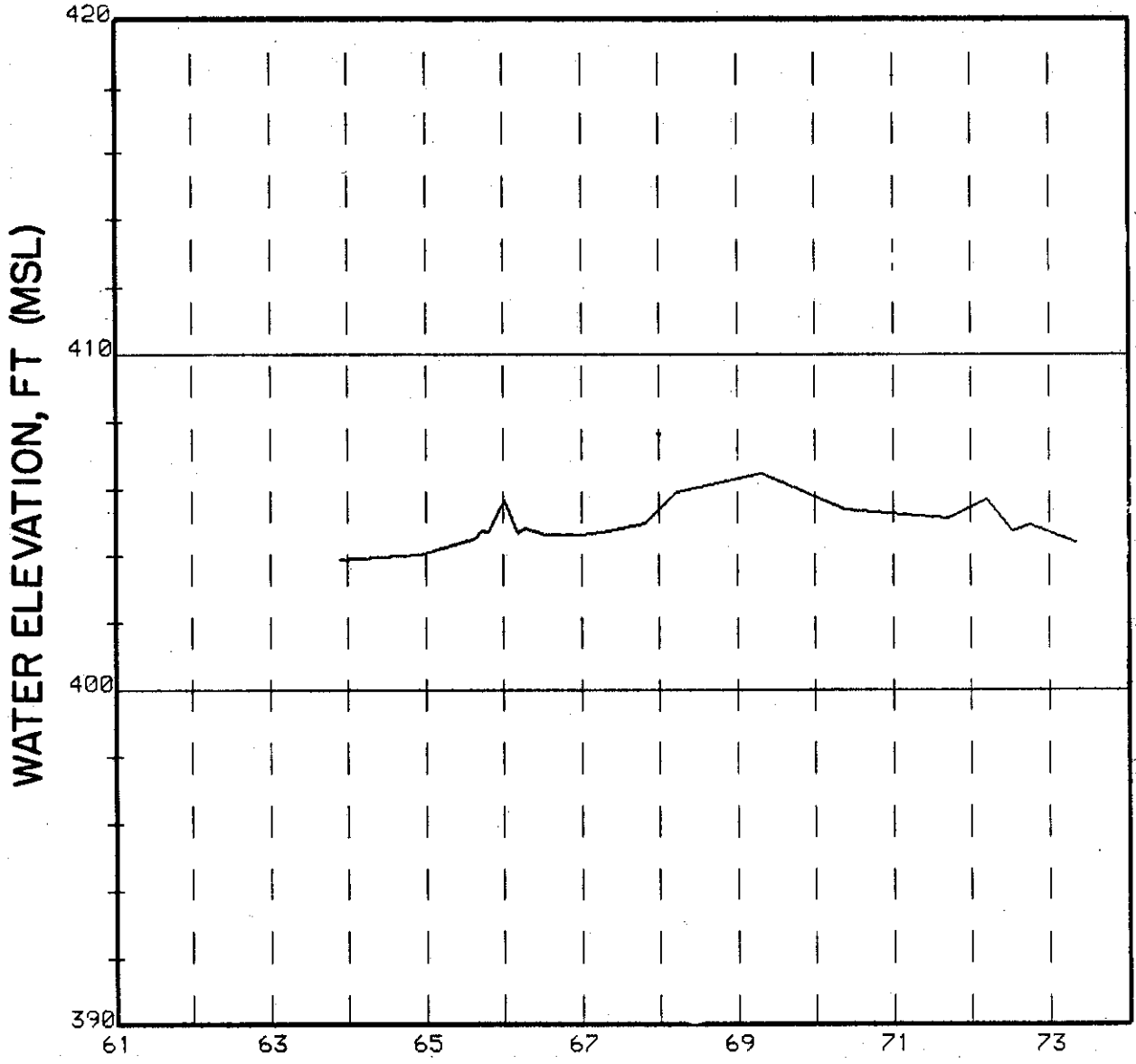

WELL NUMBER 299 E24 8

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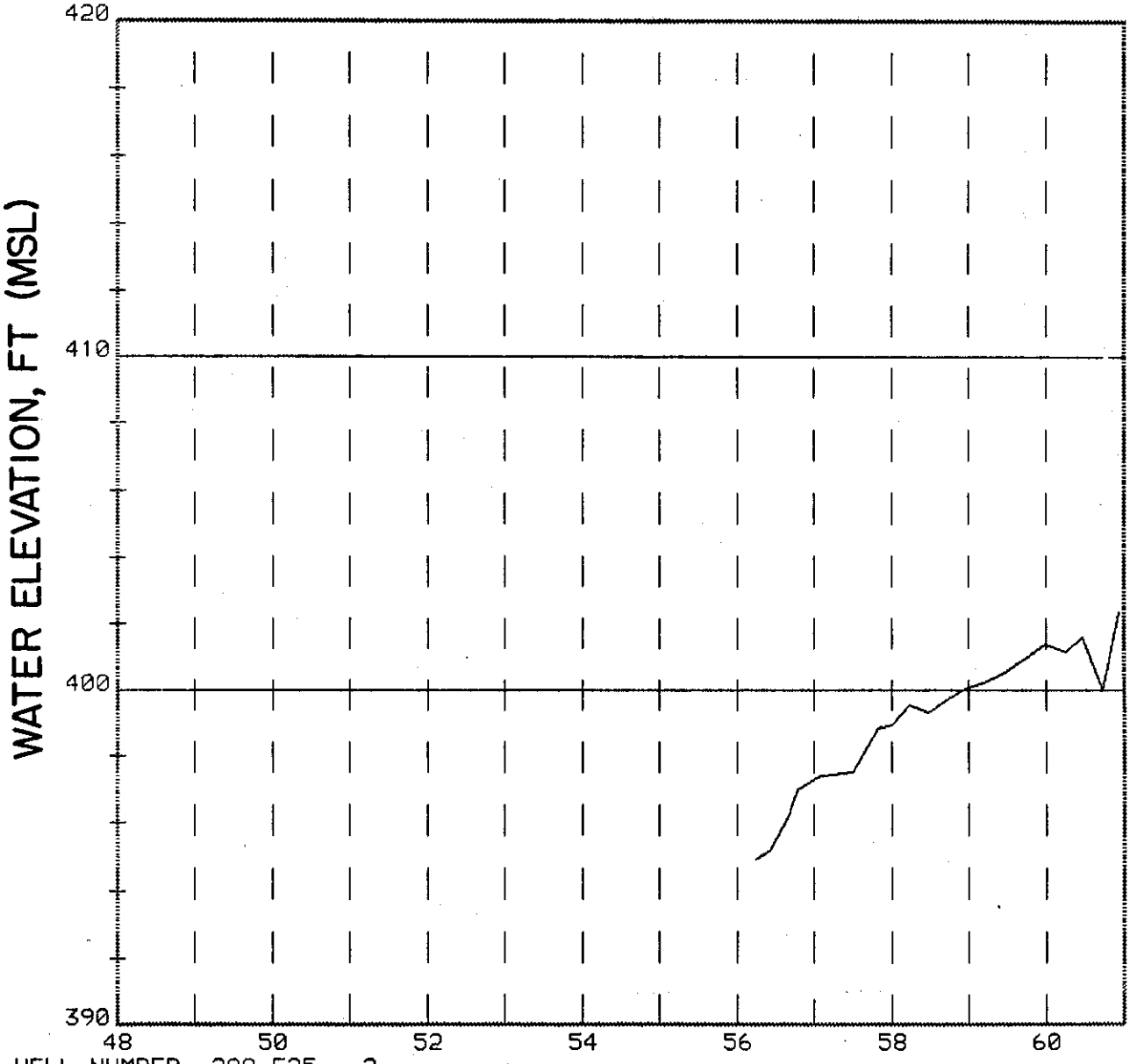

WELL NUMBER 299 E25 2

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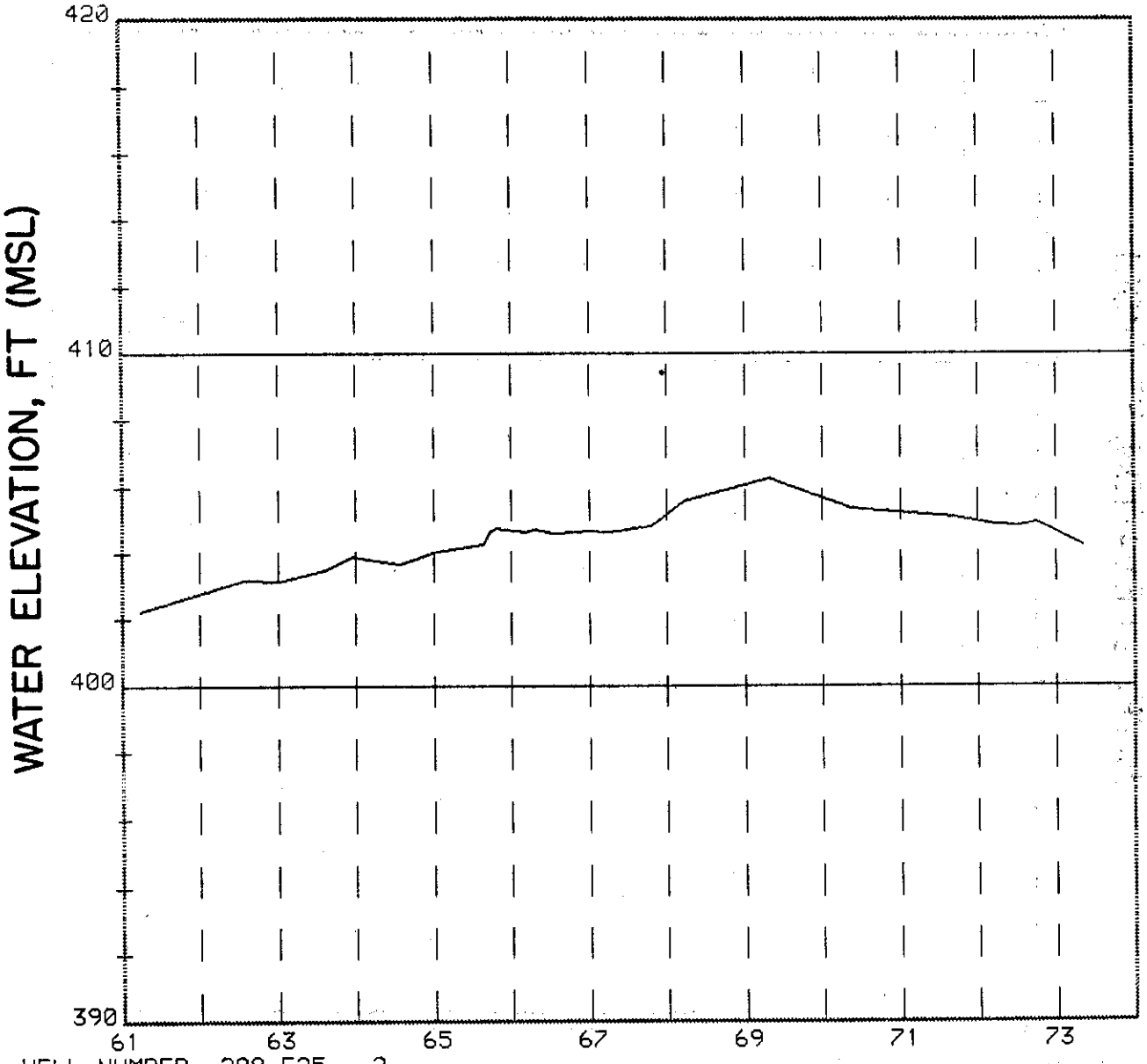

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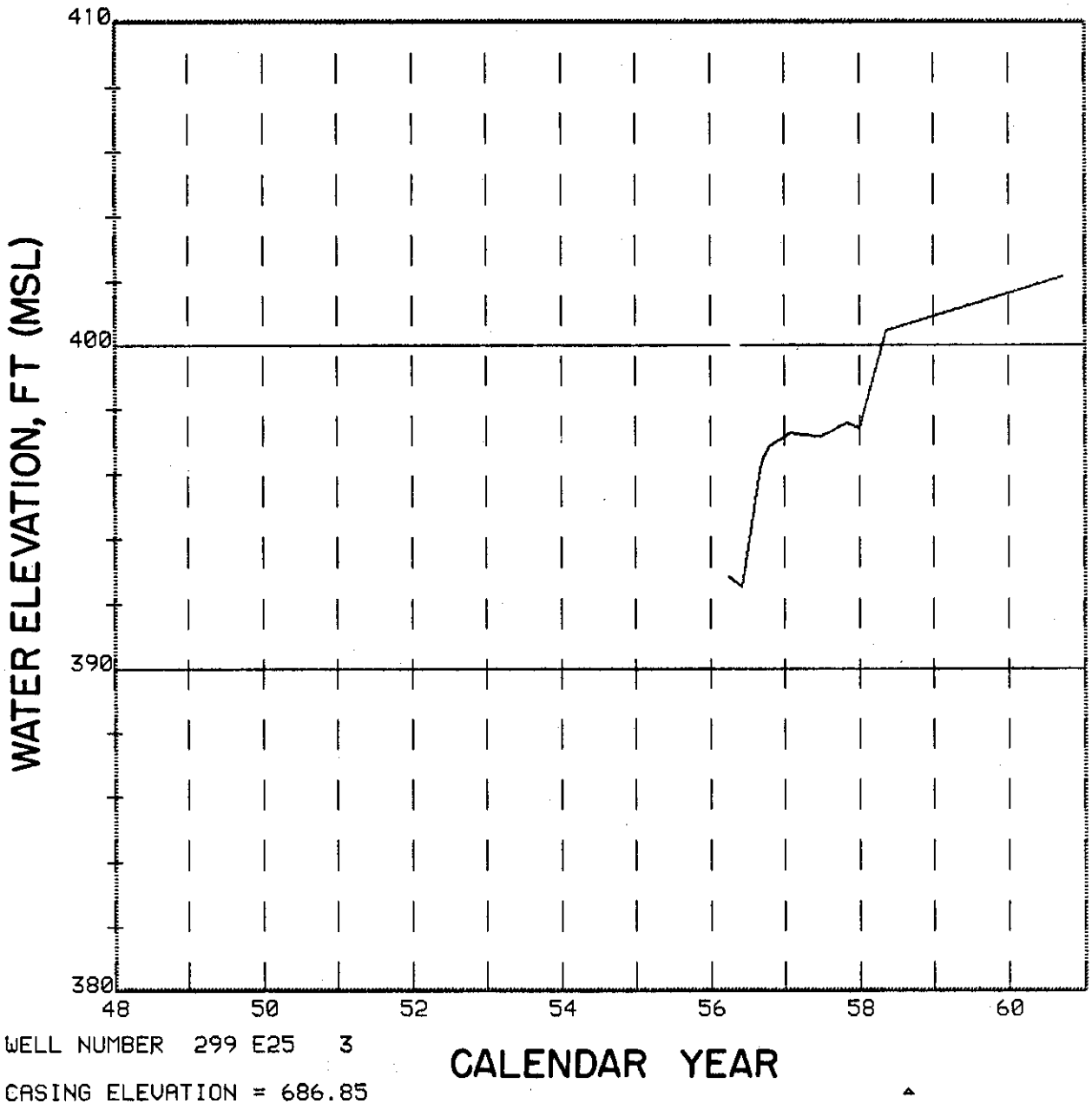

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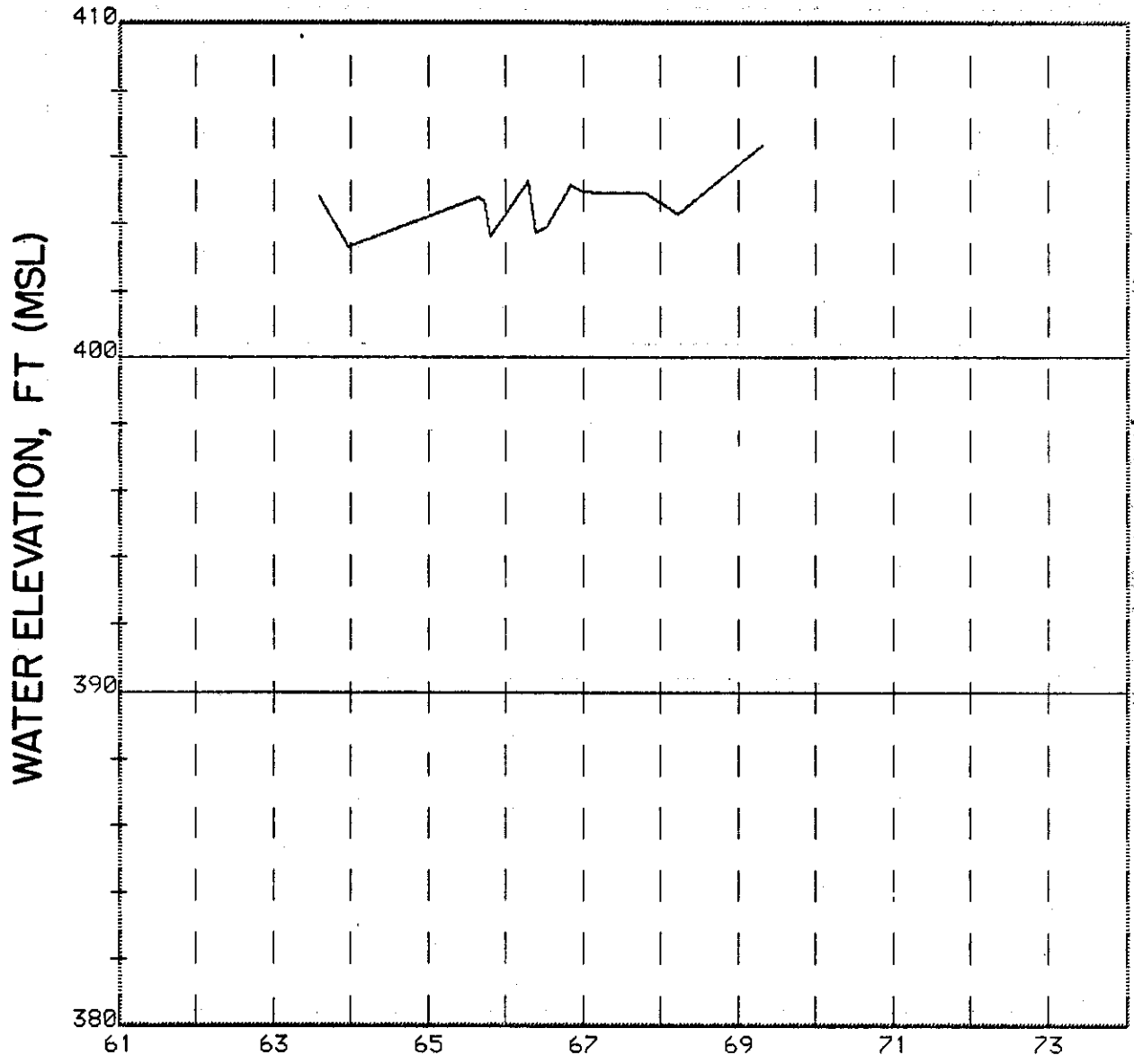

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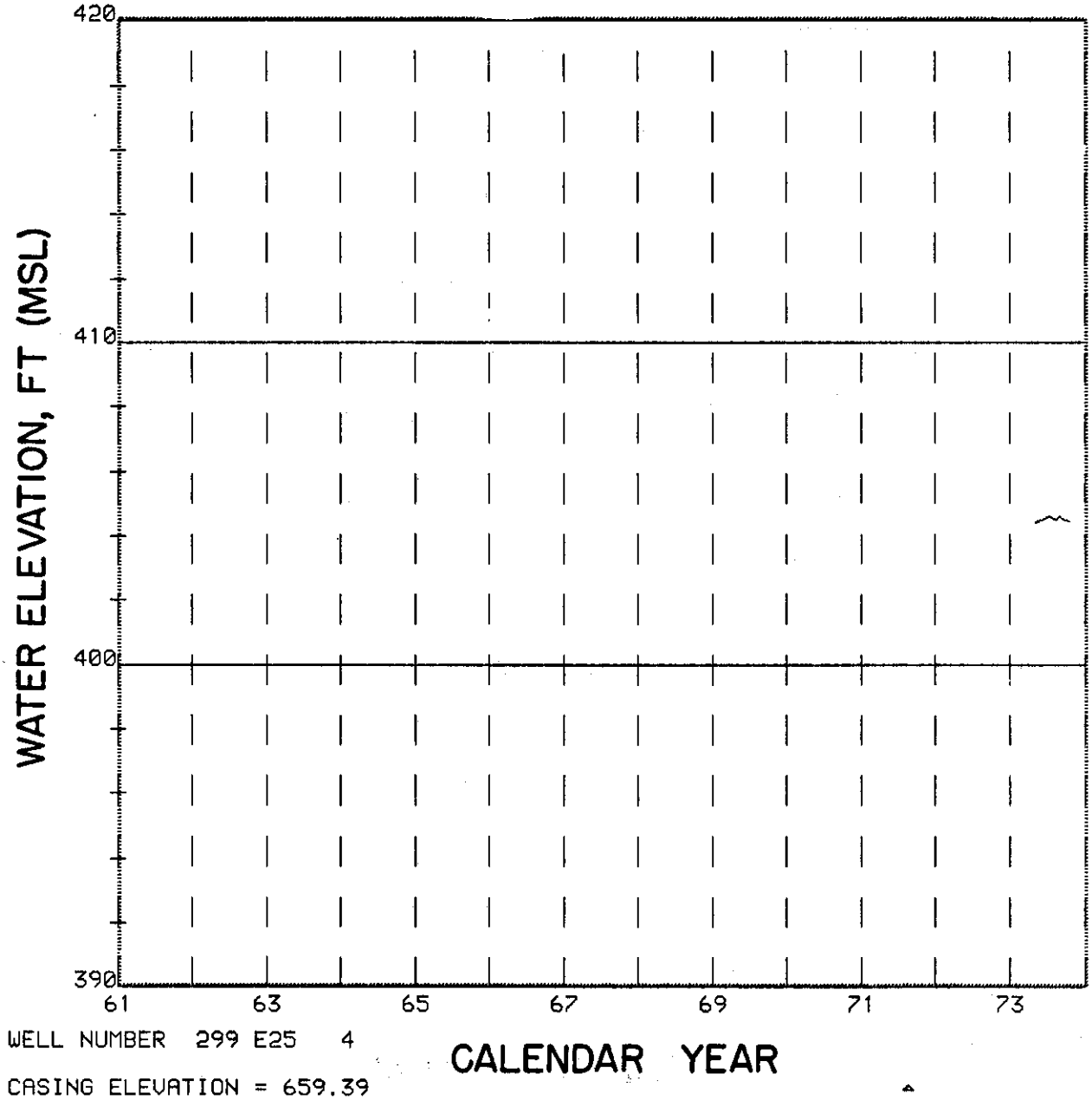

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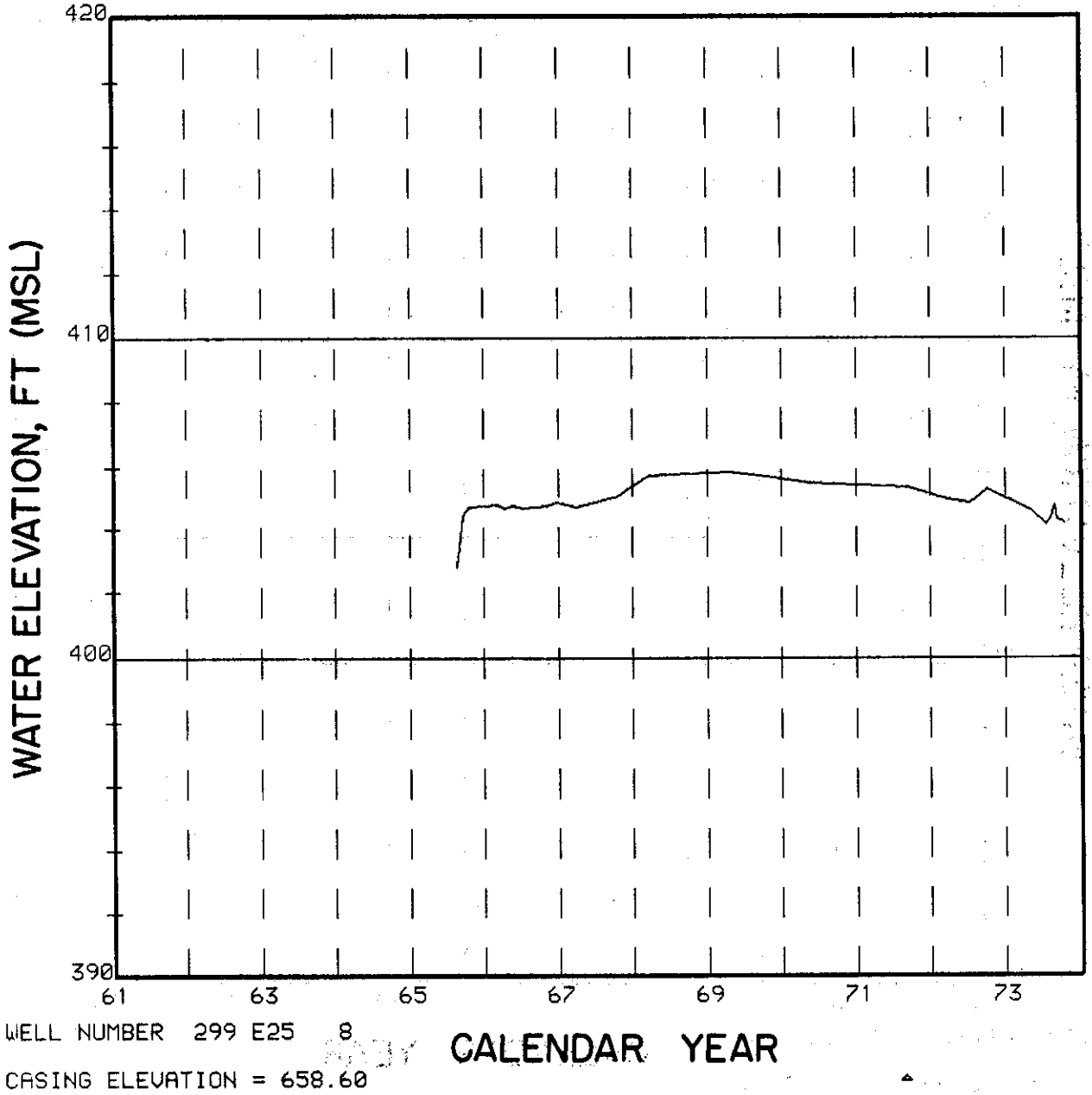

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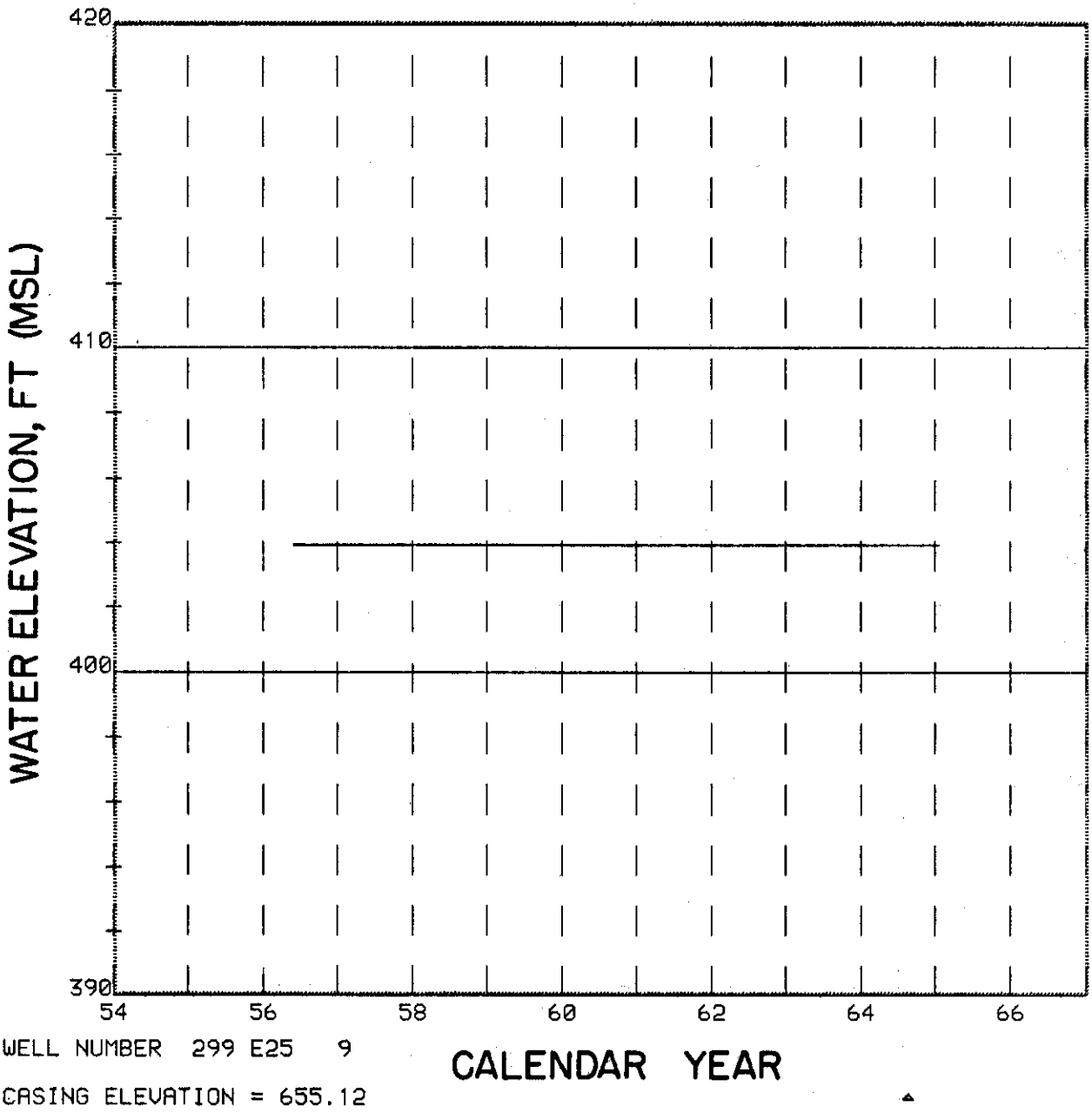

WELL NUMBER 299 E25 9

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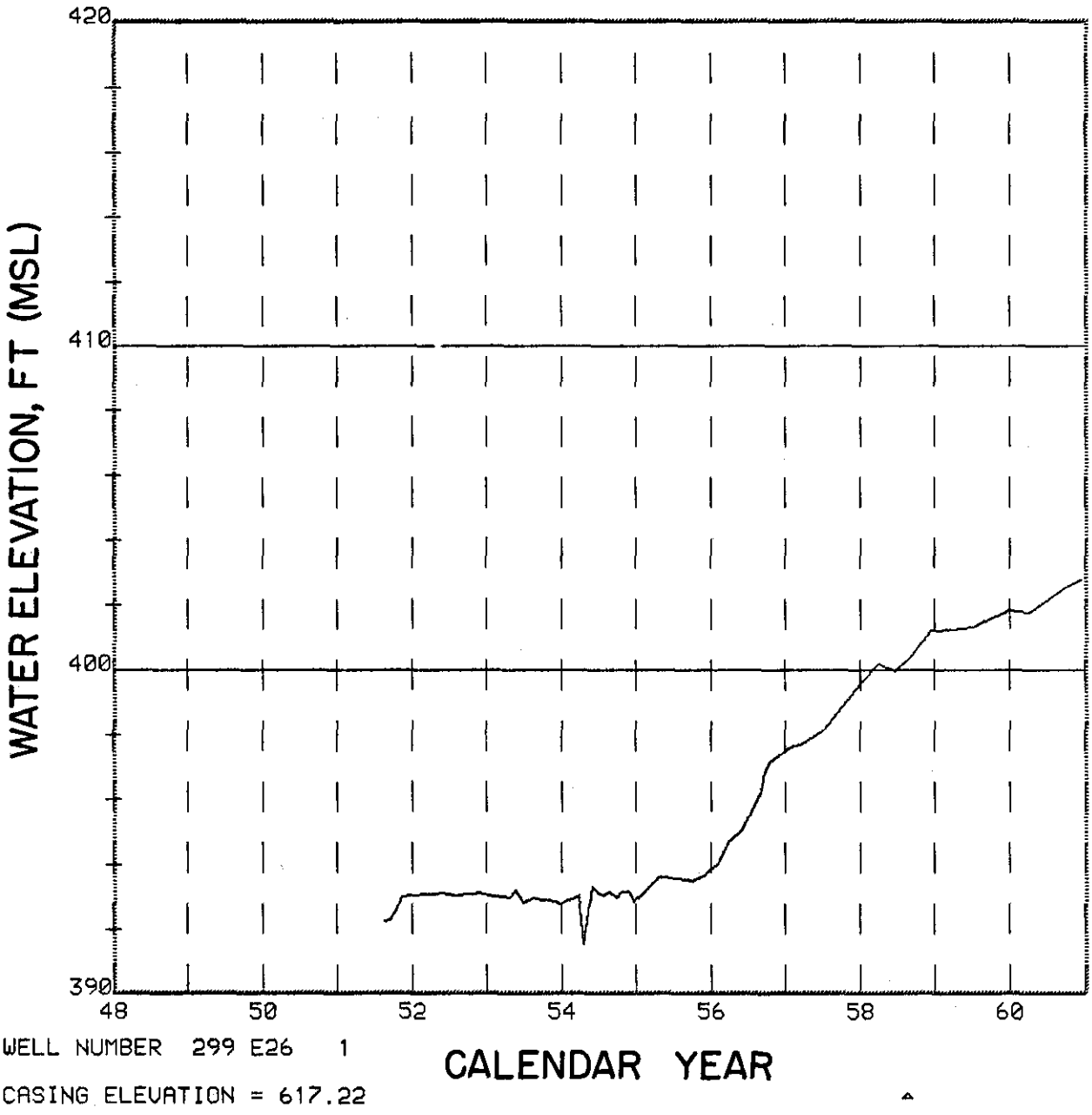

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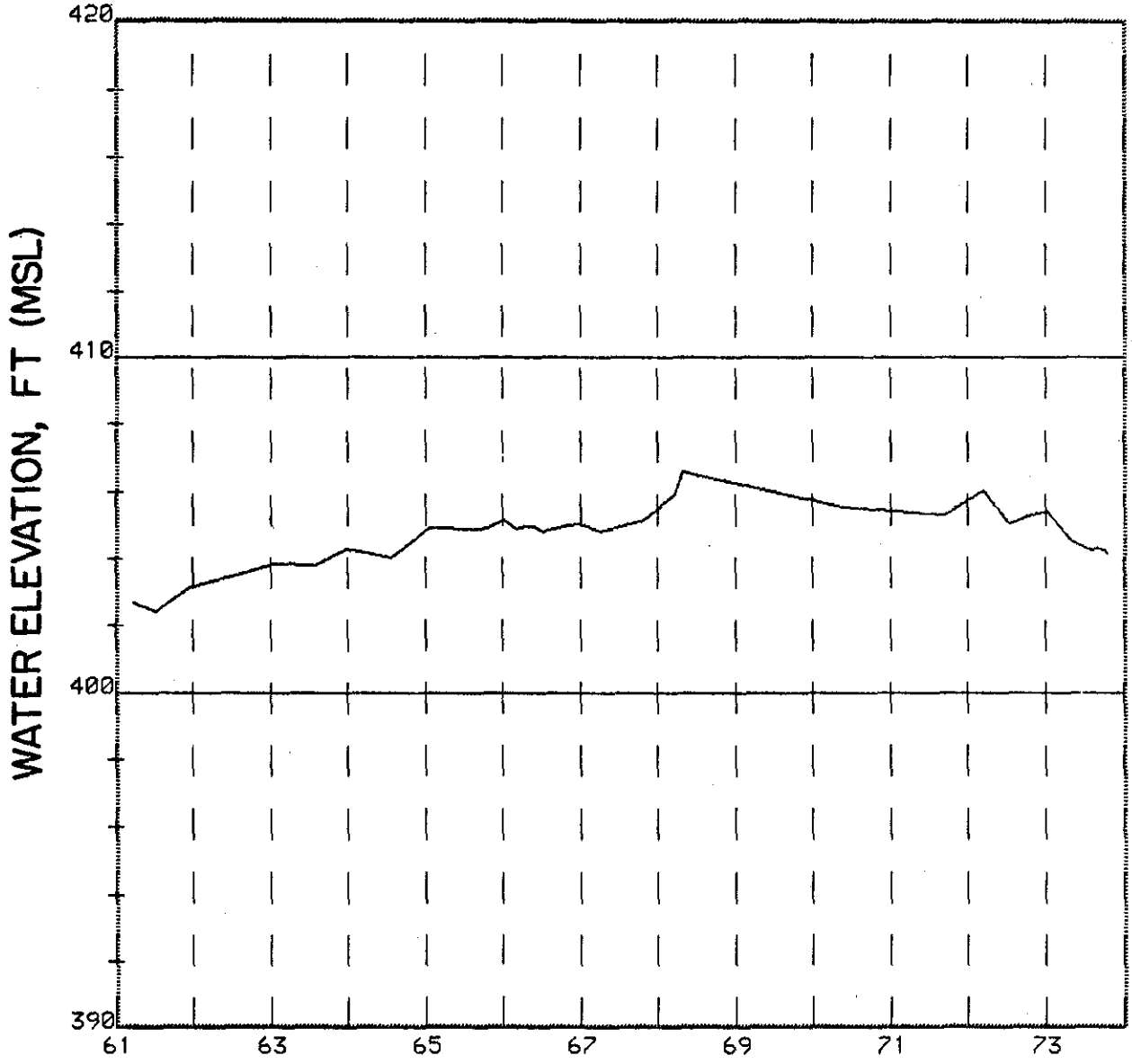

WELL NUMBER 299 E26 1

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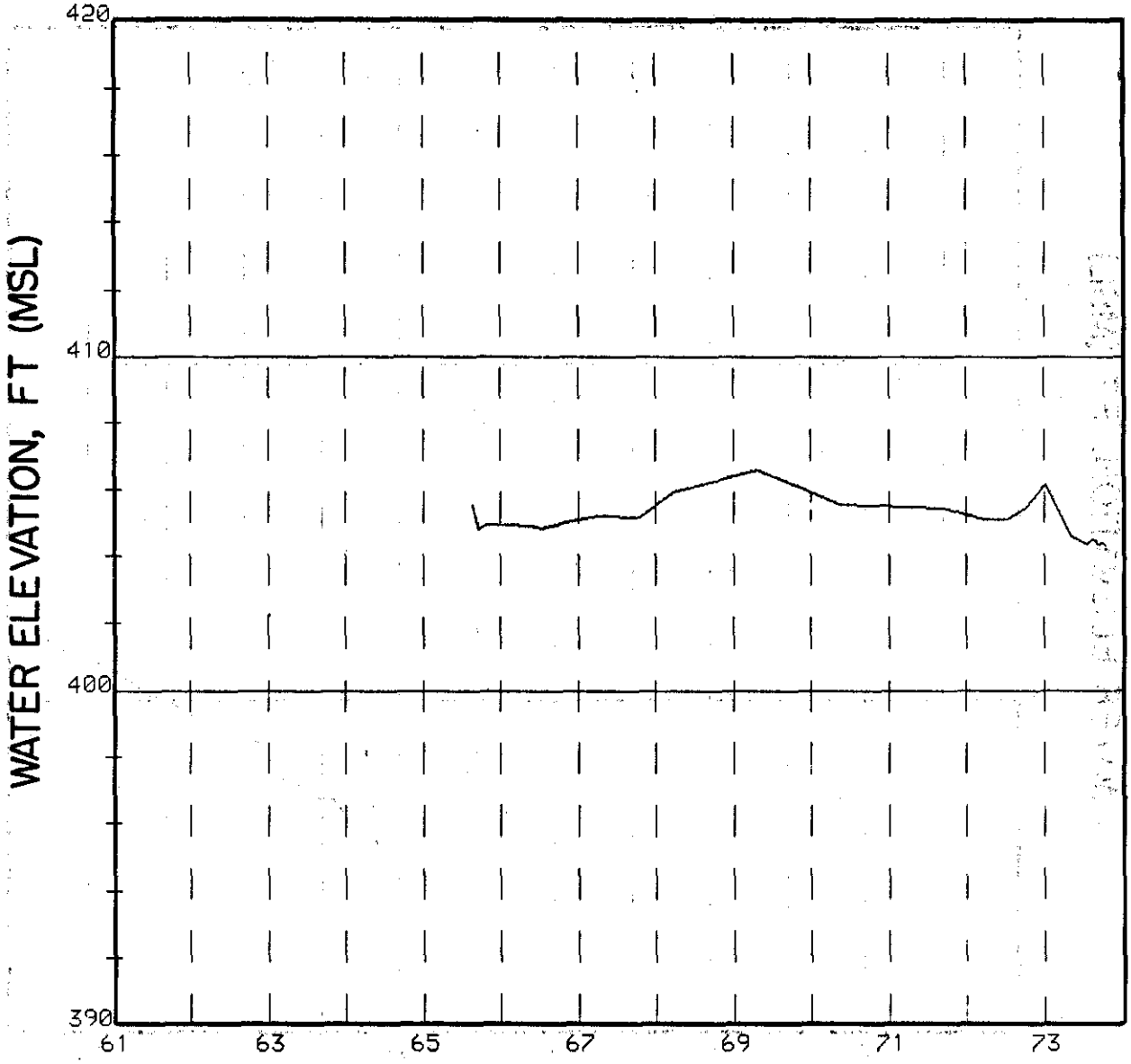

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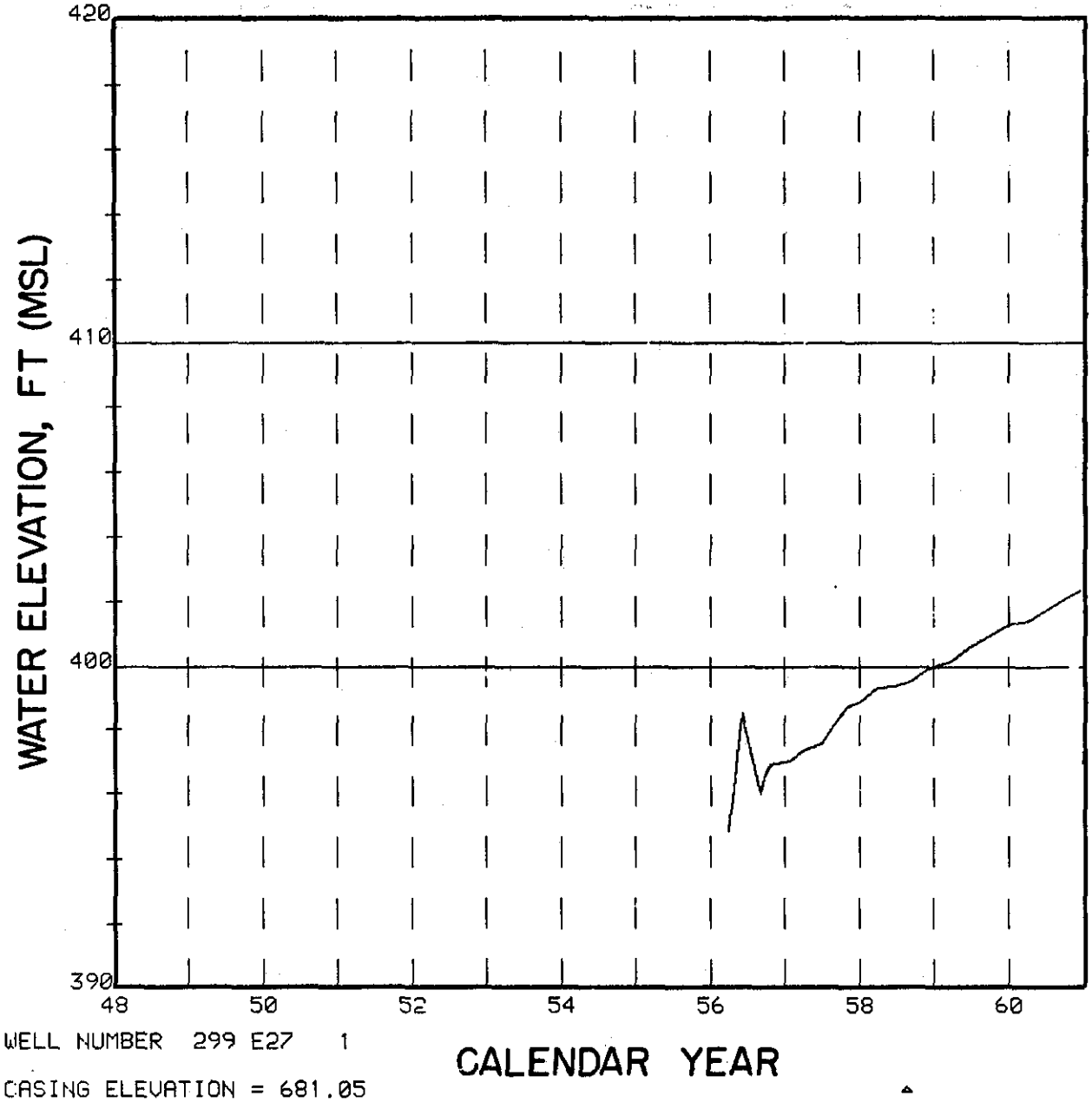

WELL NUMBER 299 E27 1

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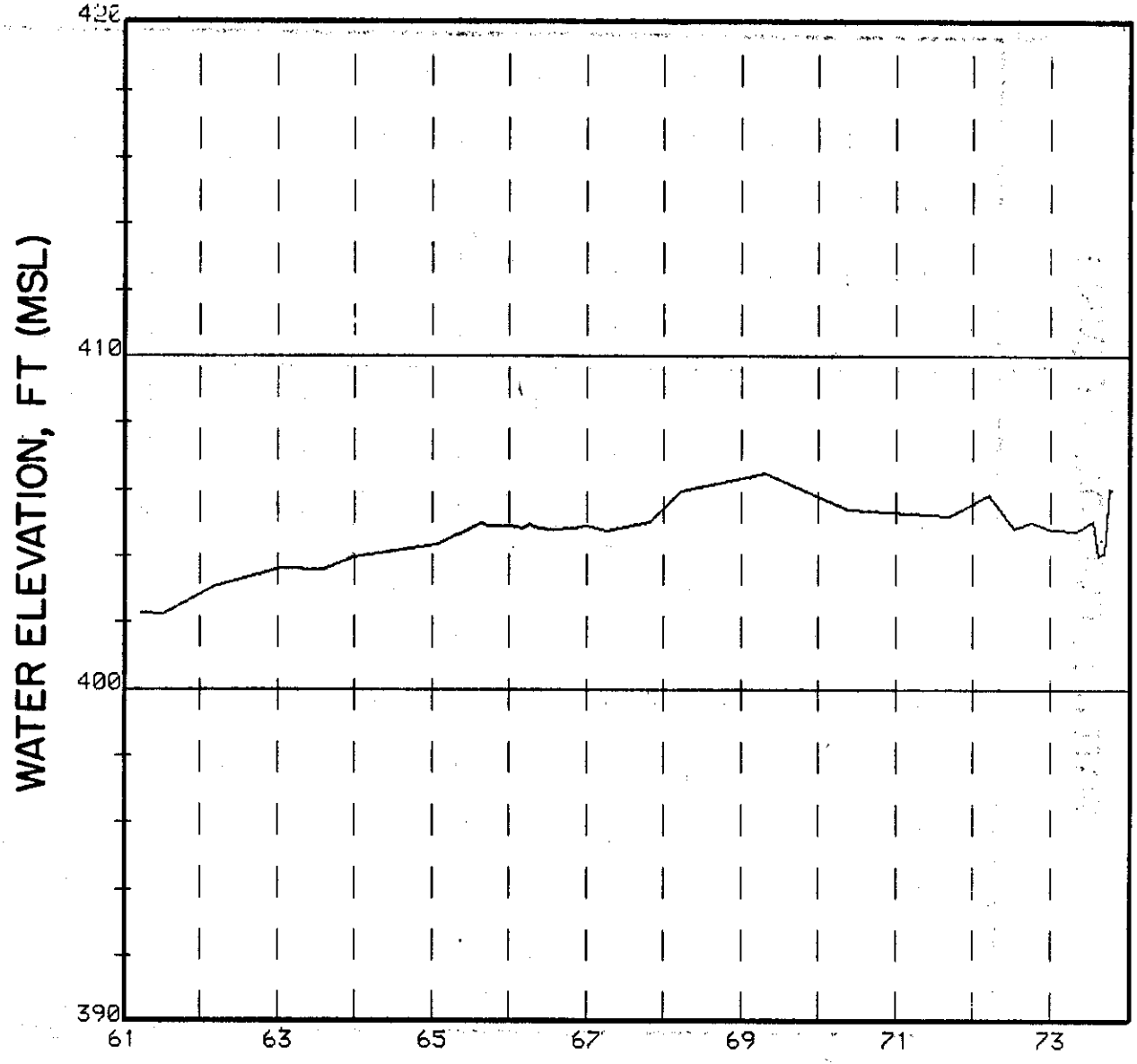

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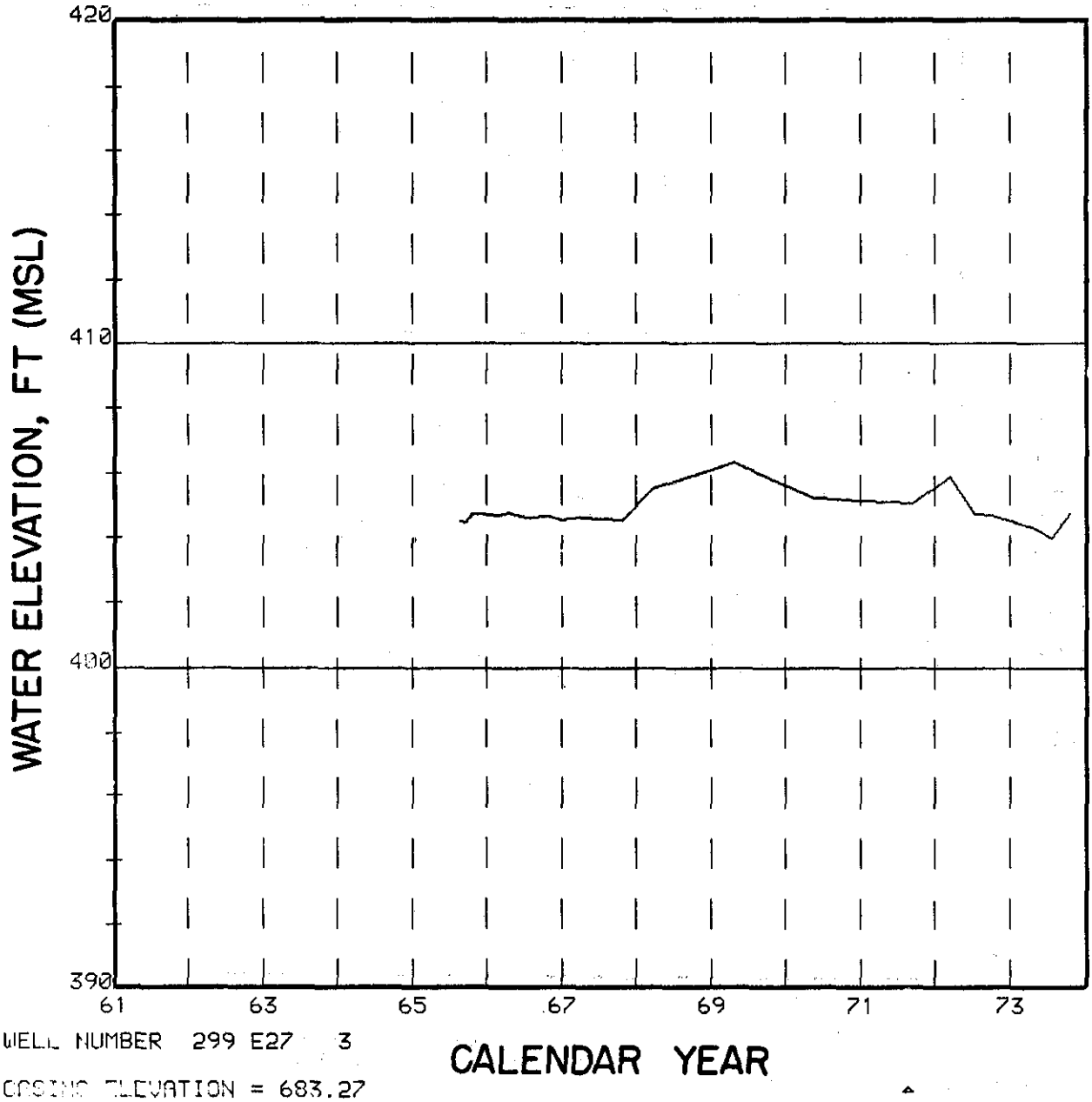

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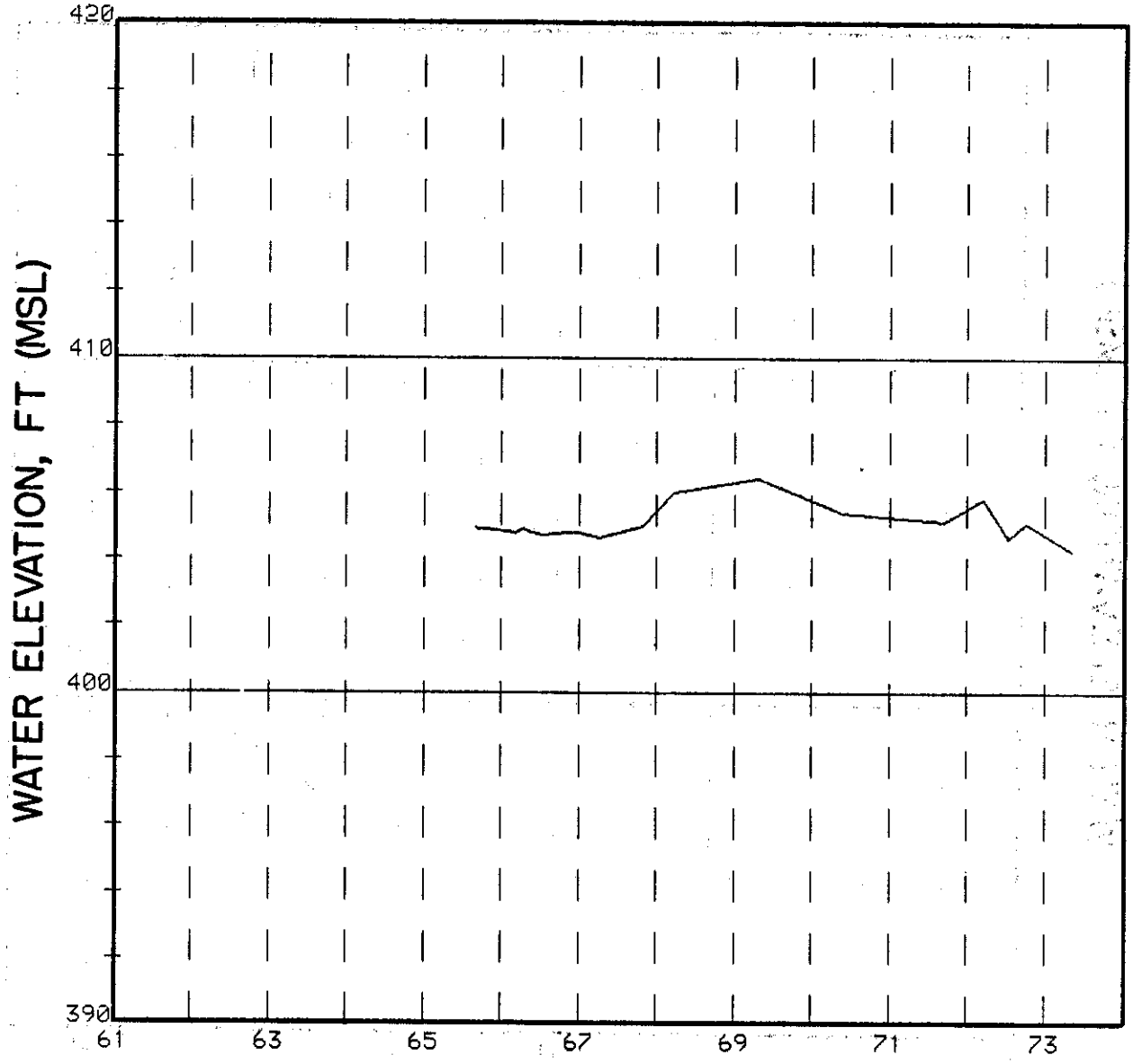

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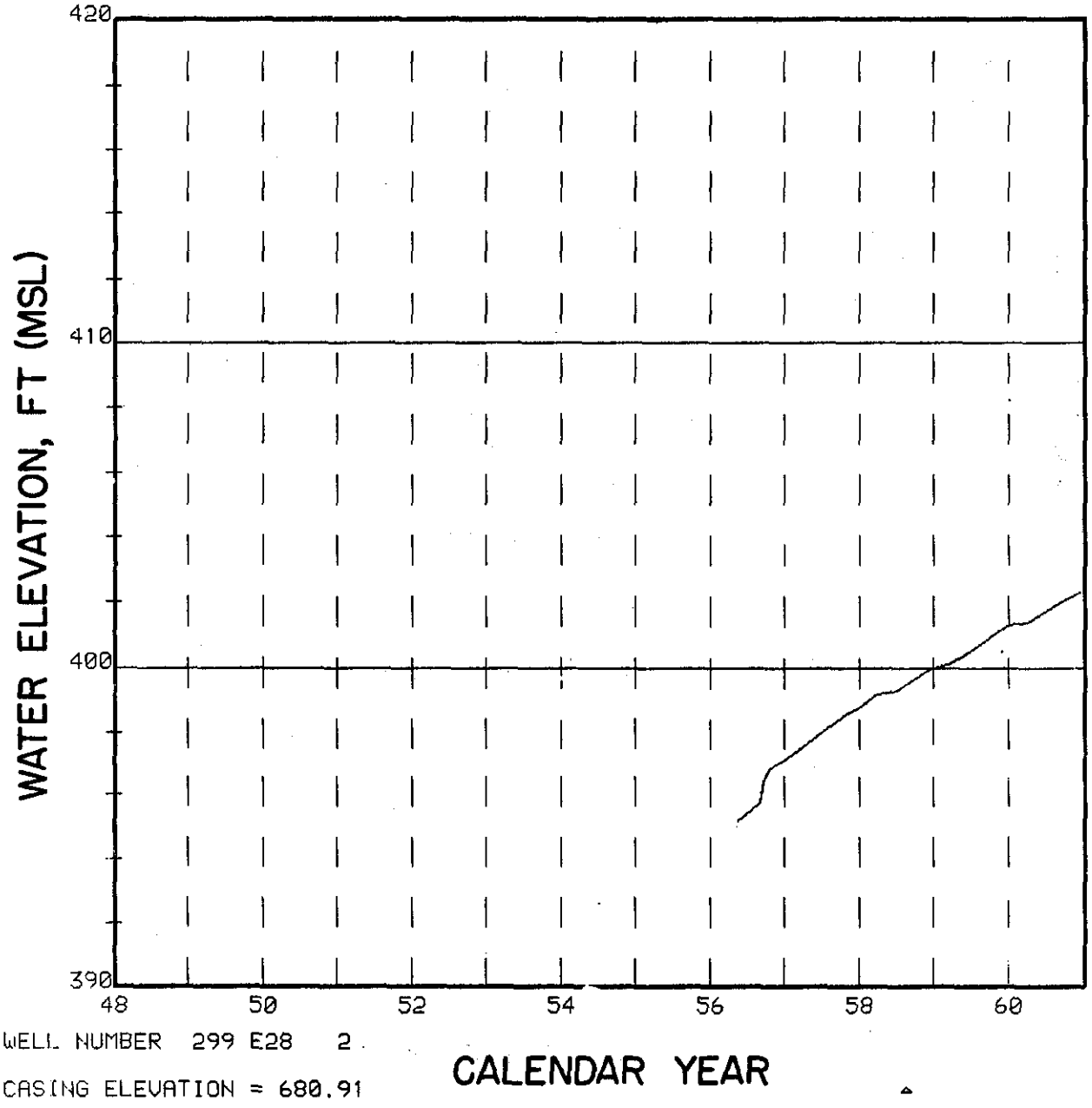

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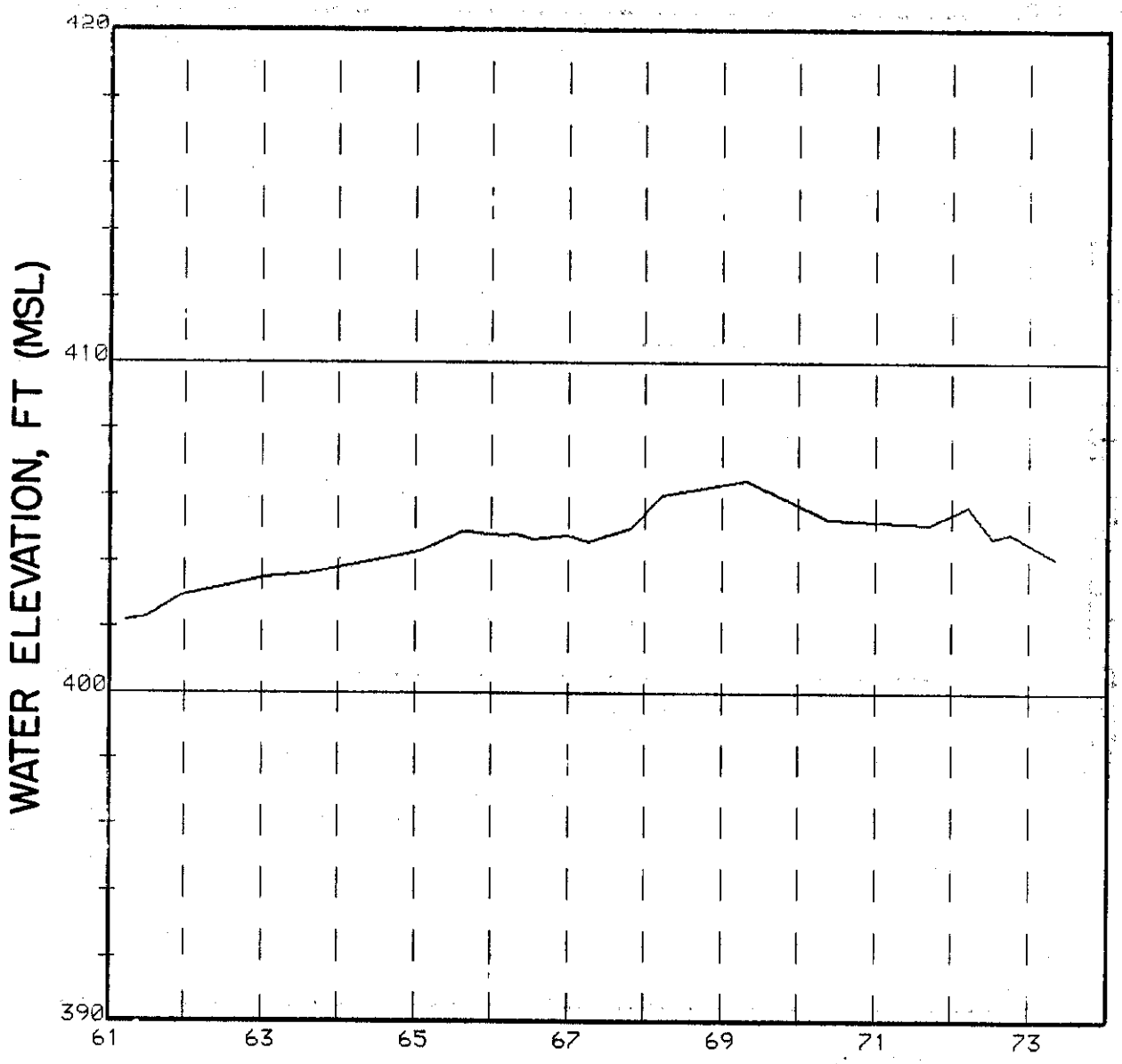

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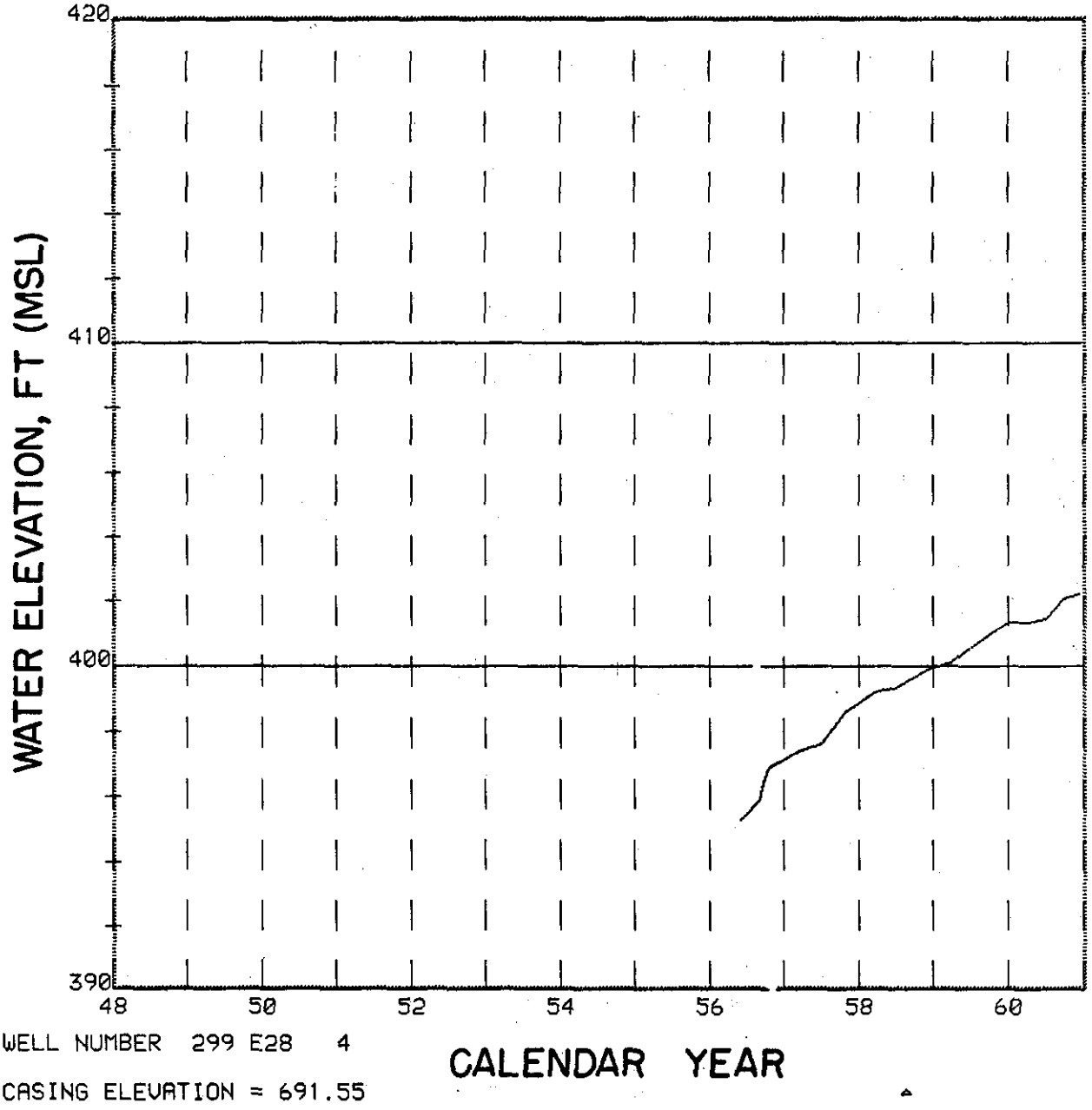

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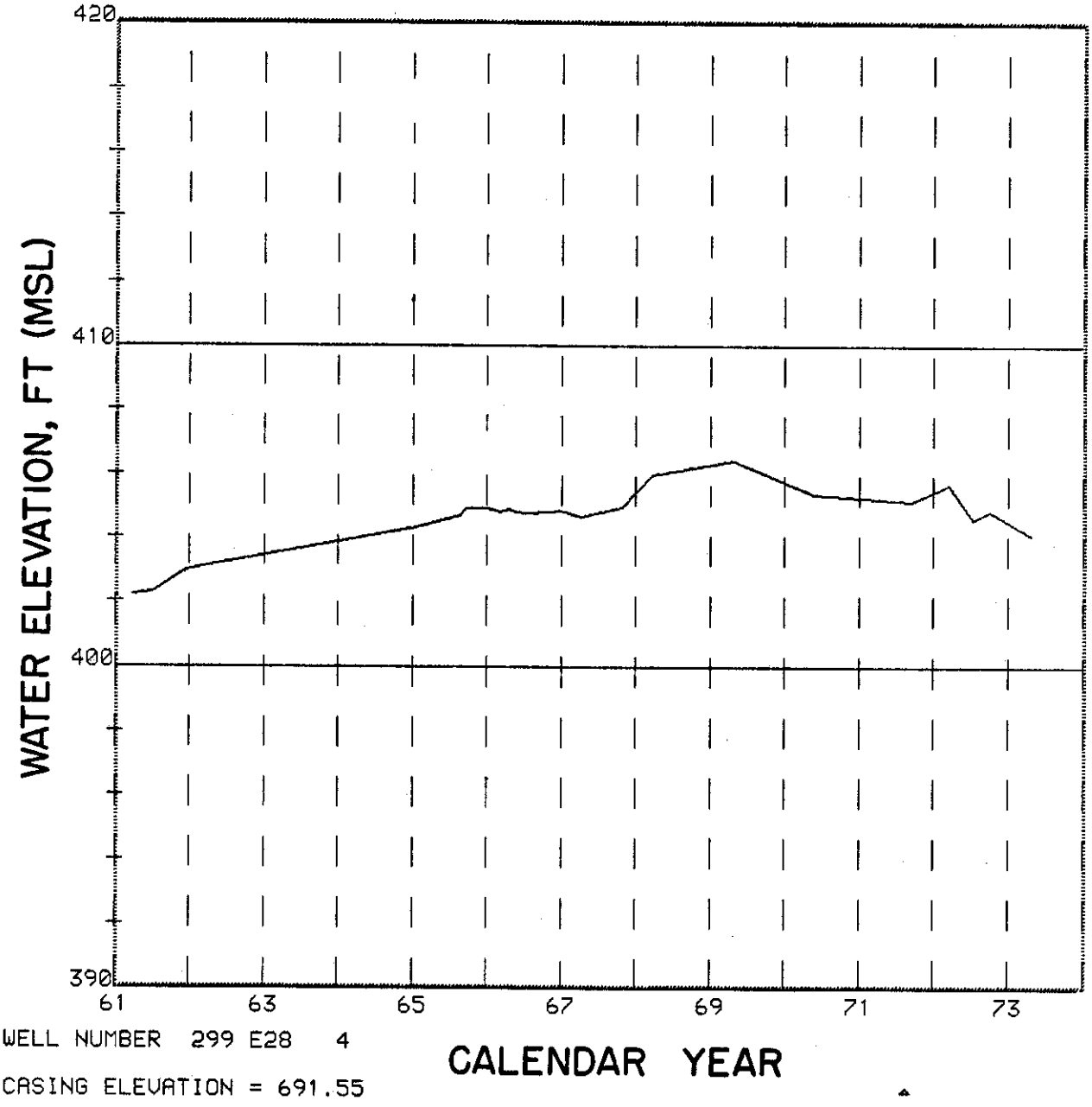

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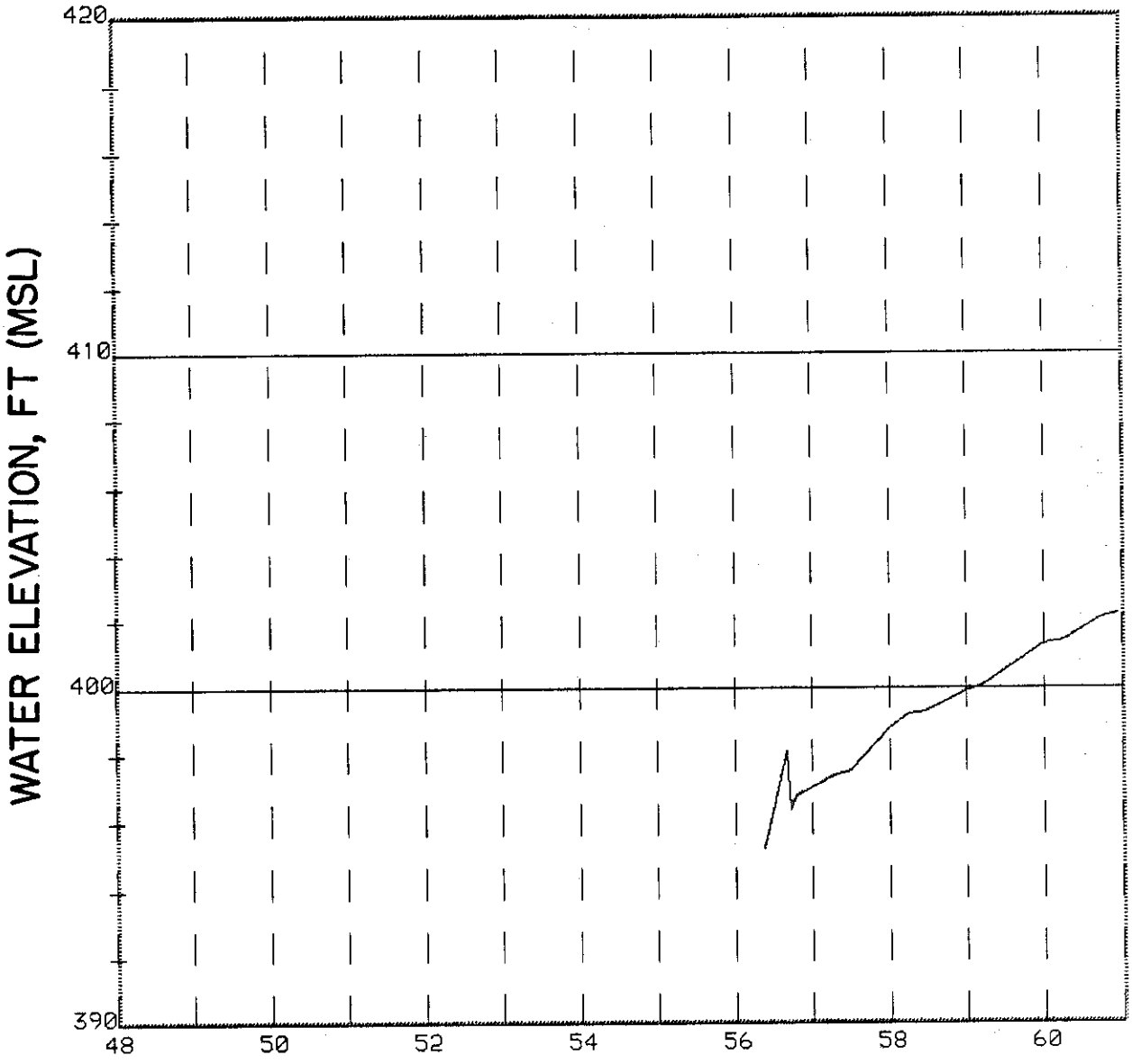

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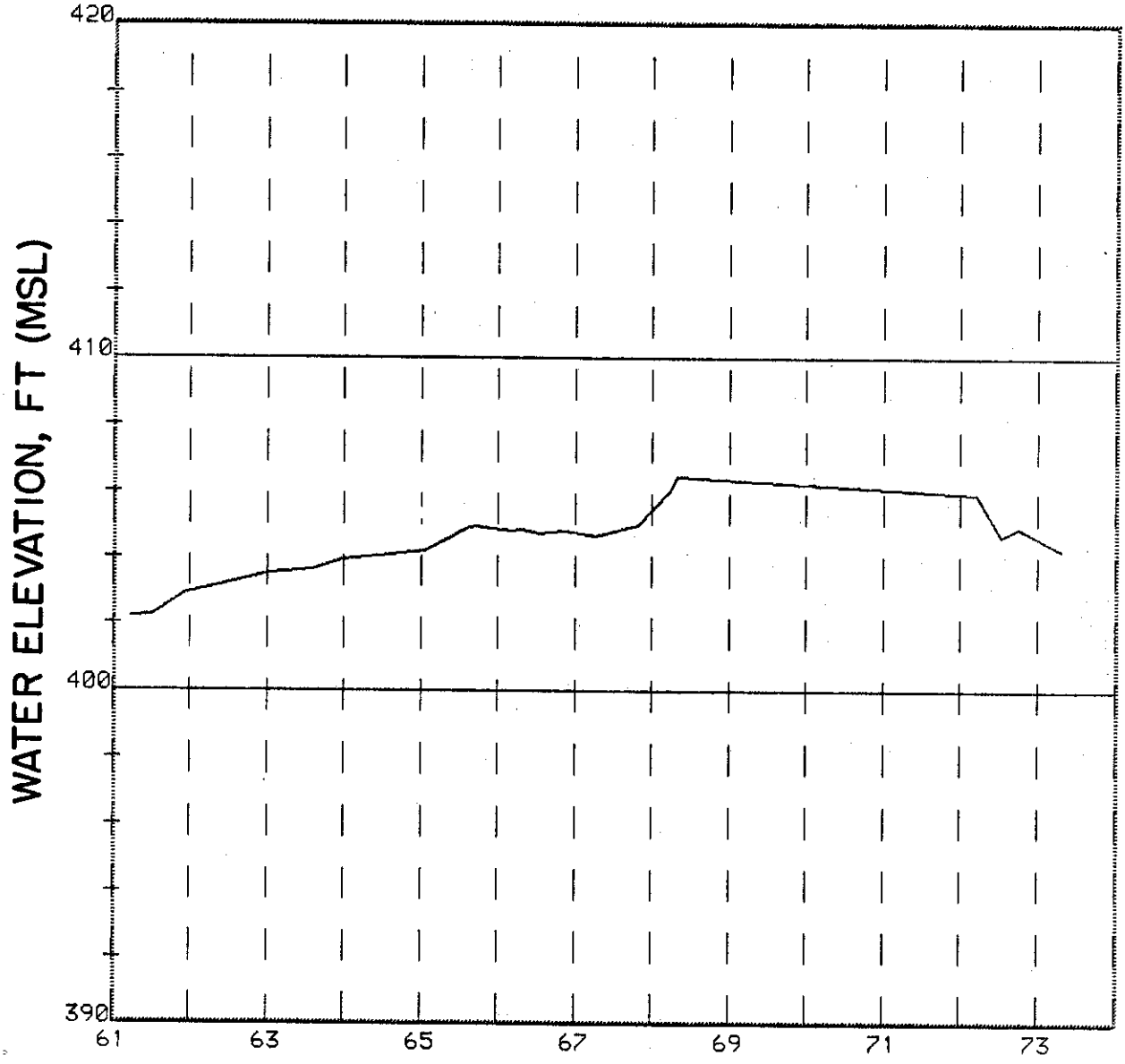

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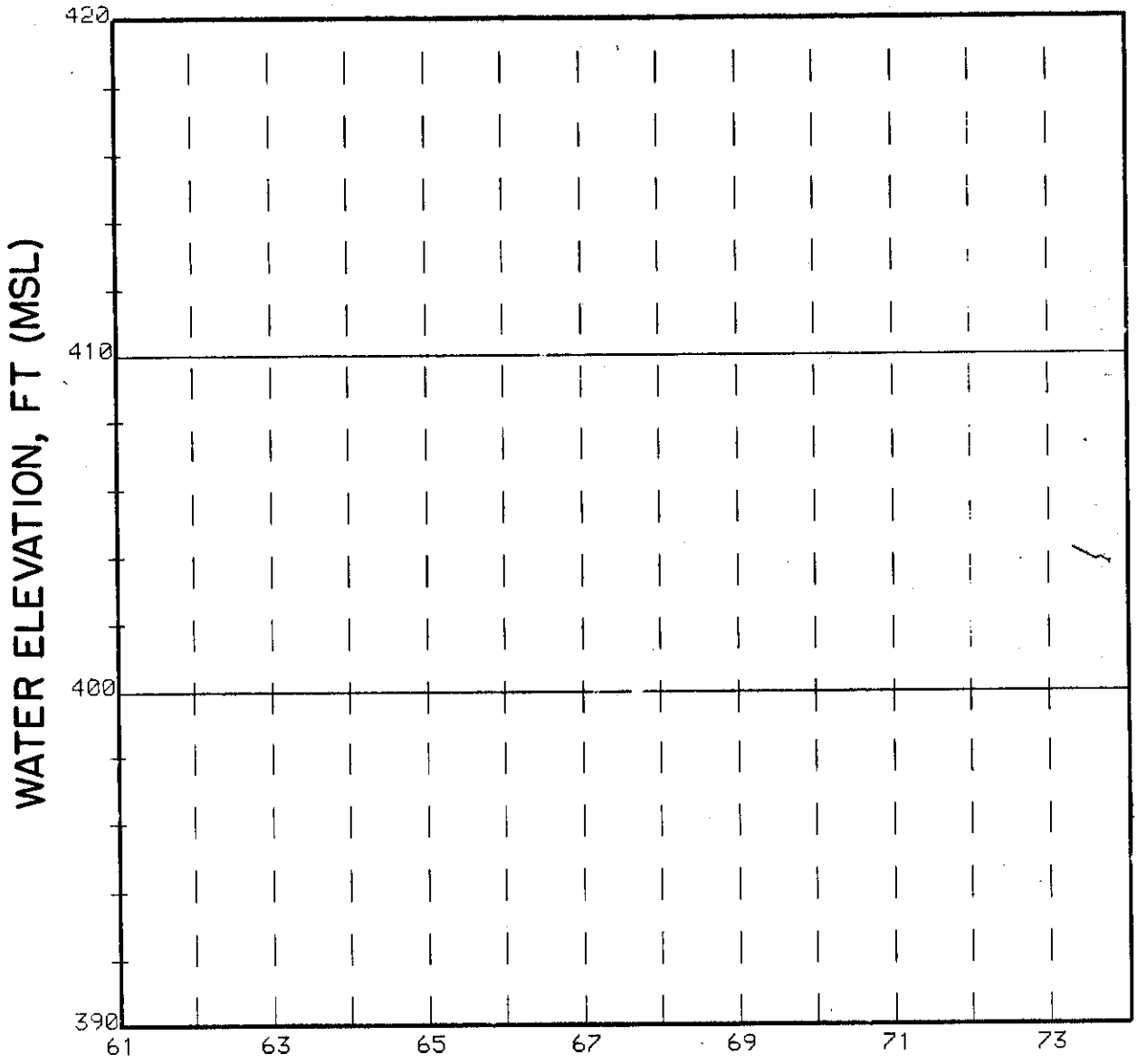

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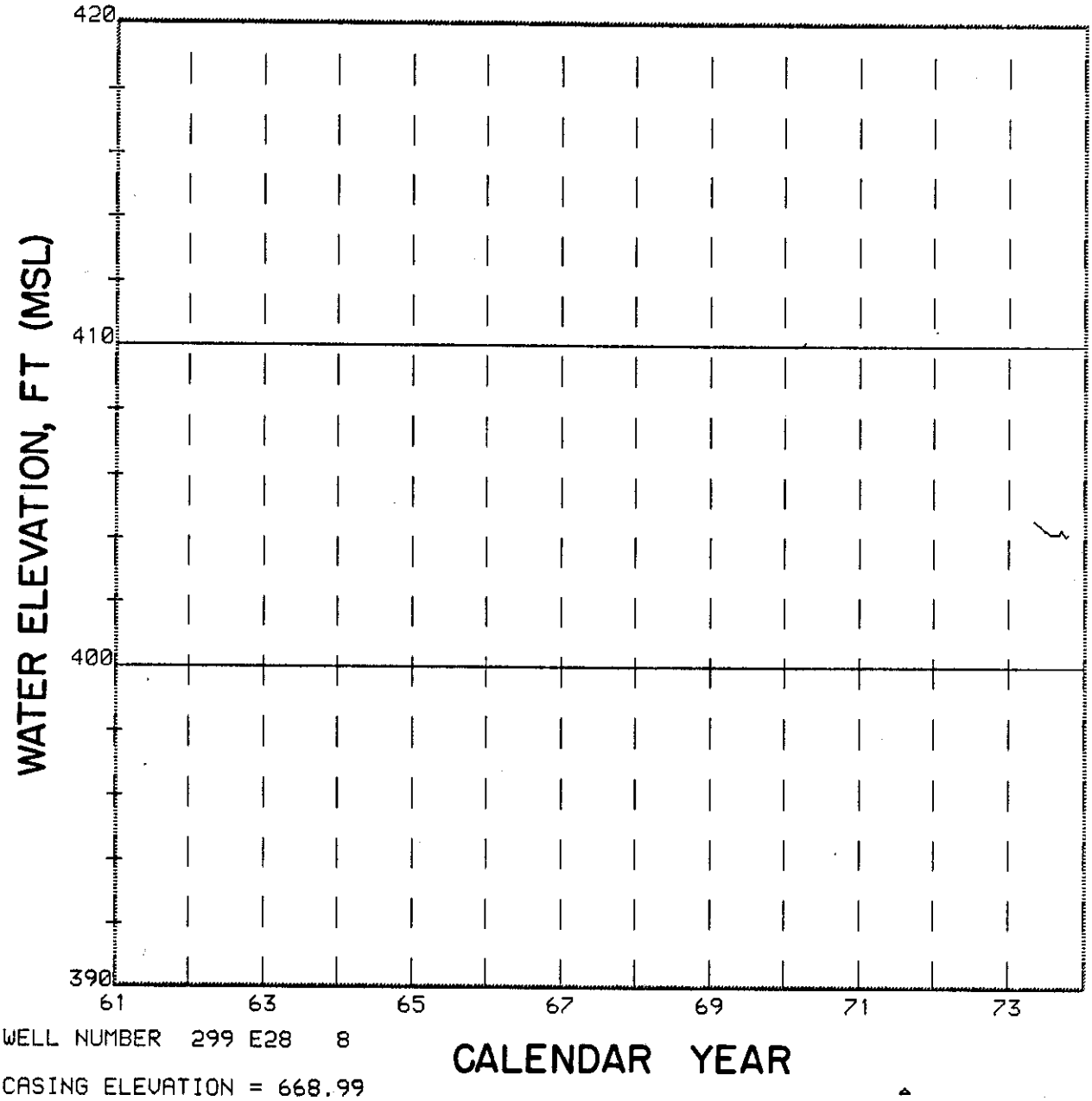

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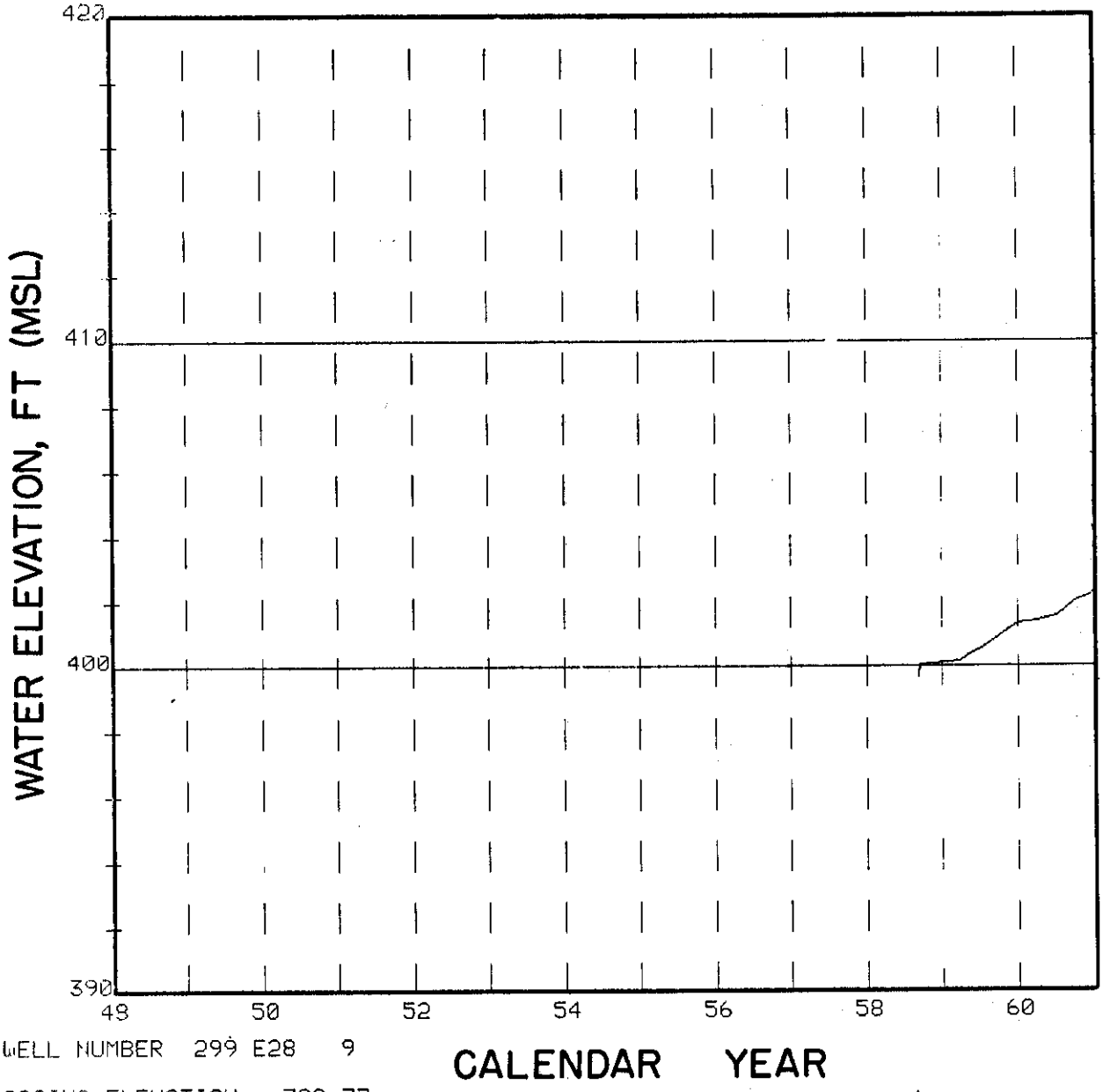

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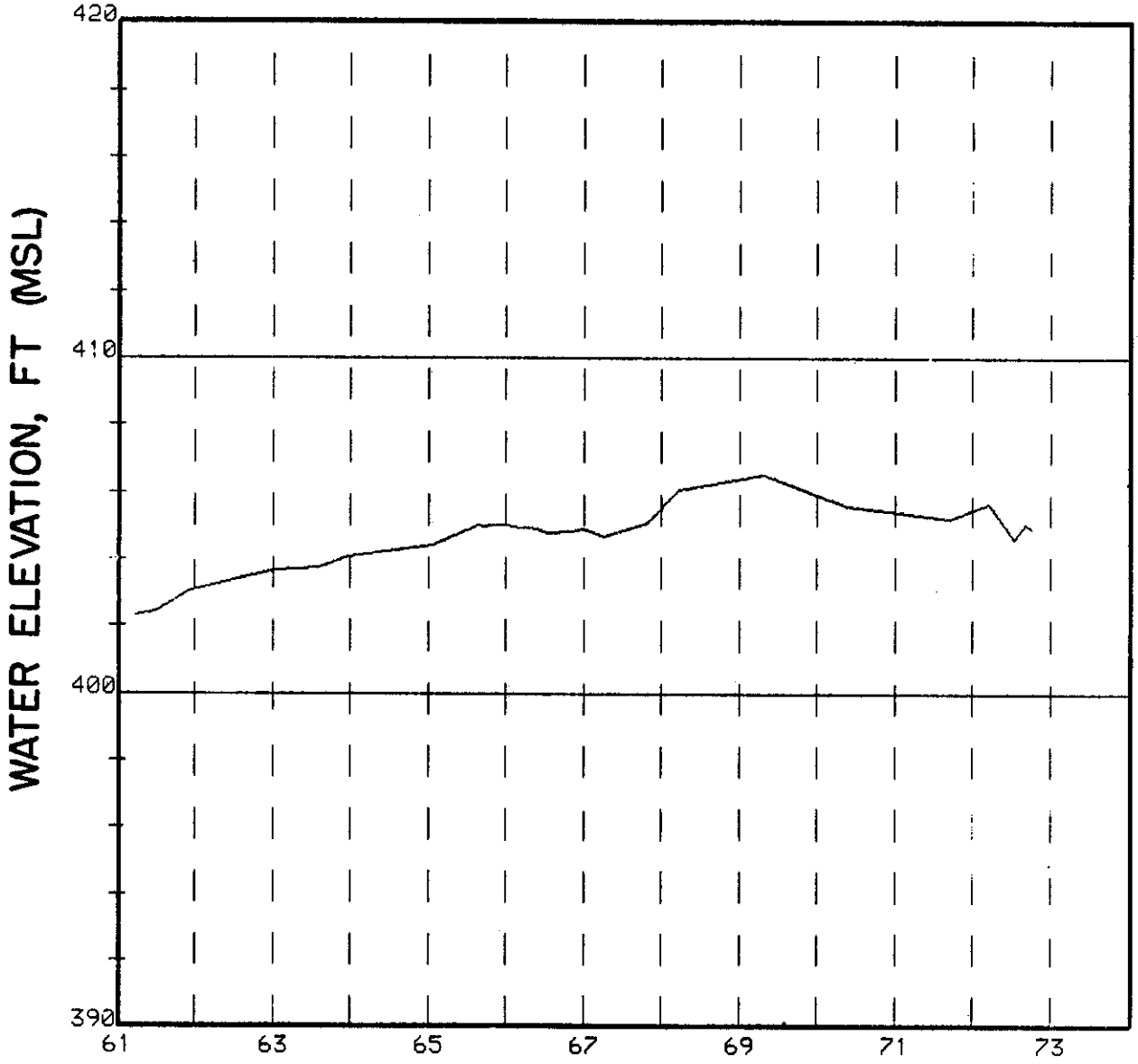

WELL NUMBER 299 E28 9

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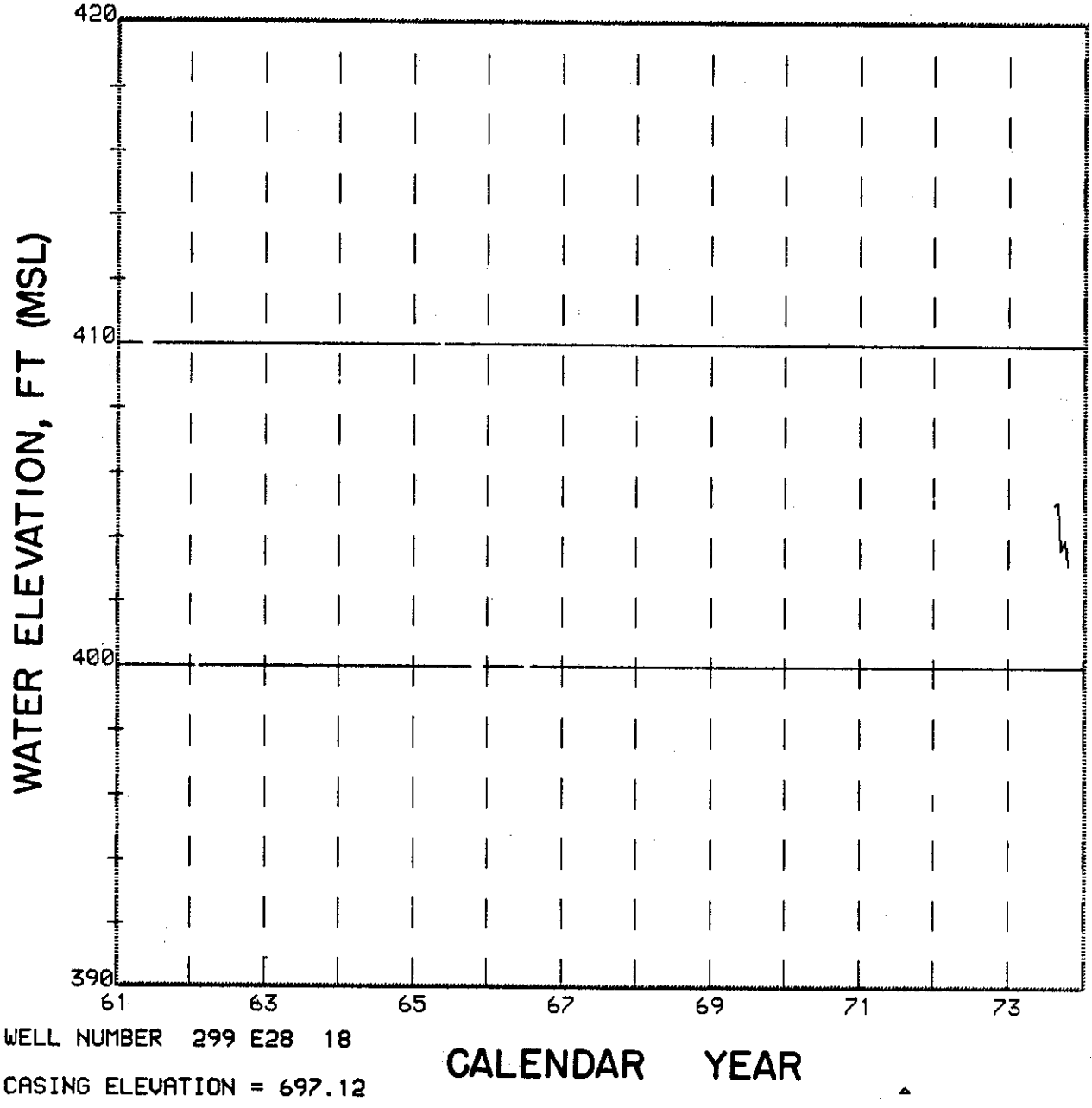

WELL NUMBER 299 E28 18

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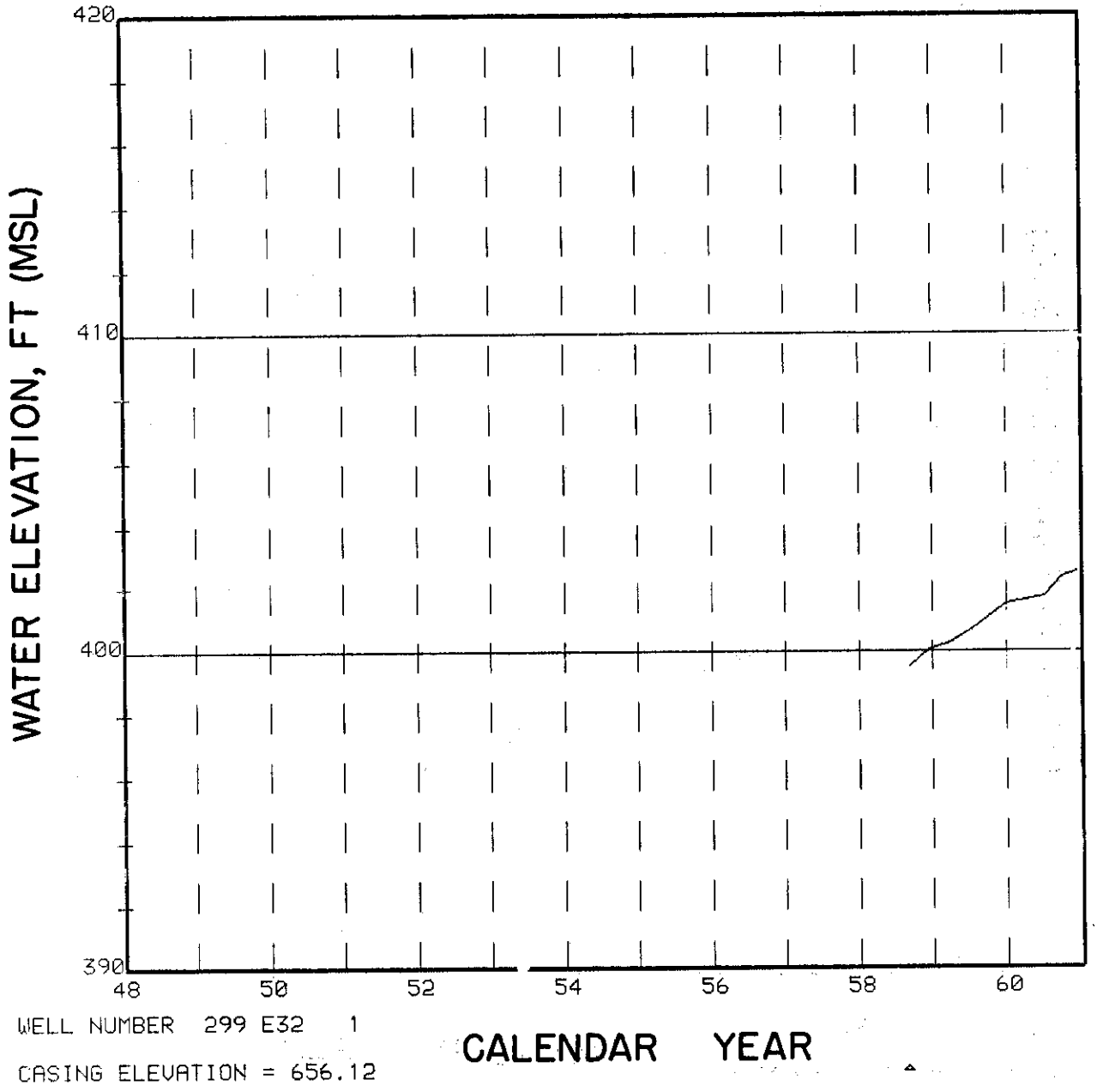

WELL NUMBER 299 E32 1

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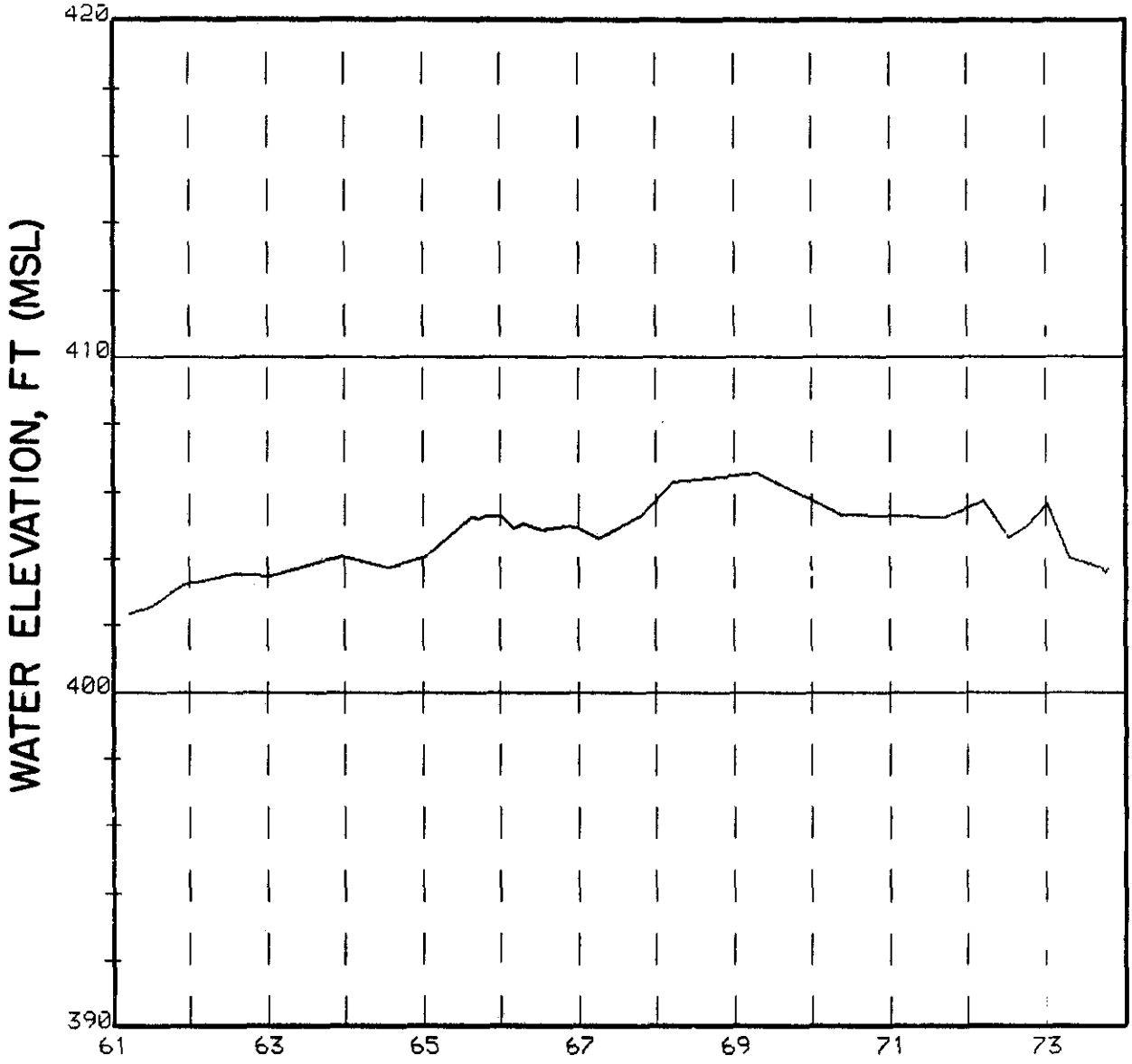

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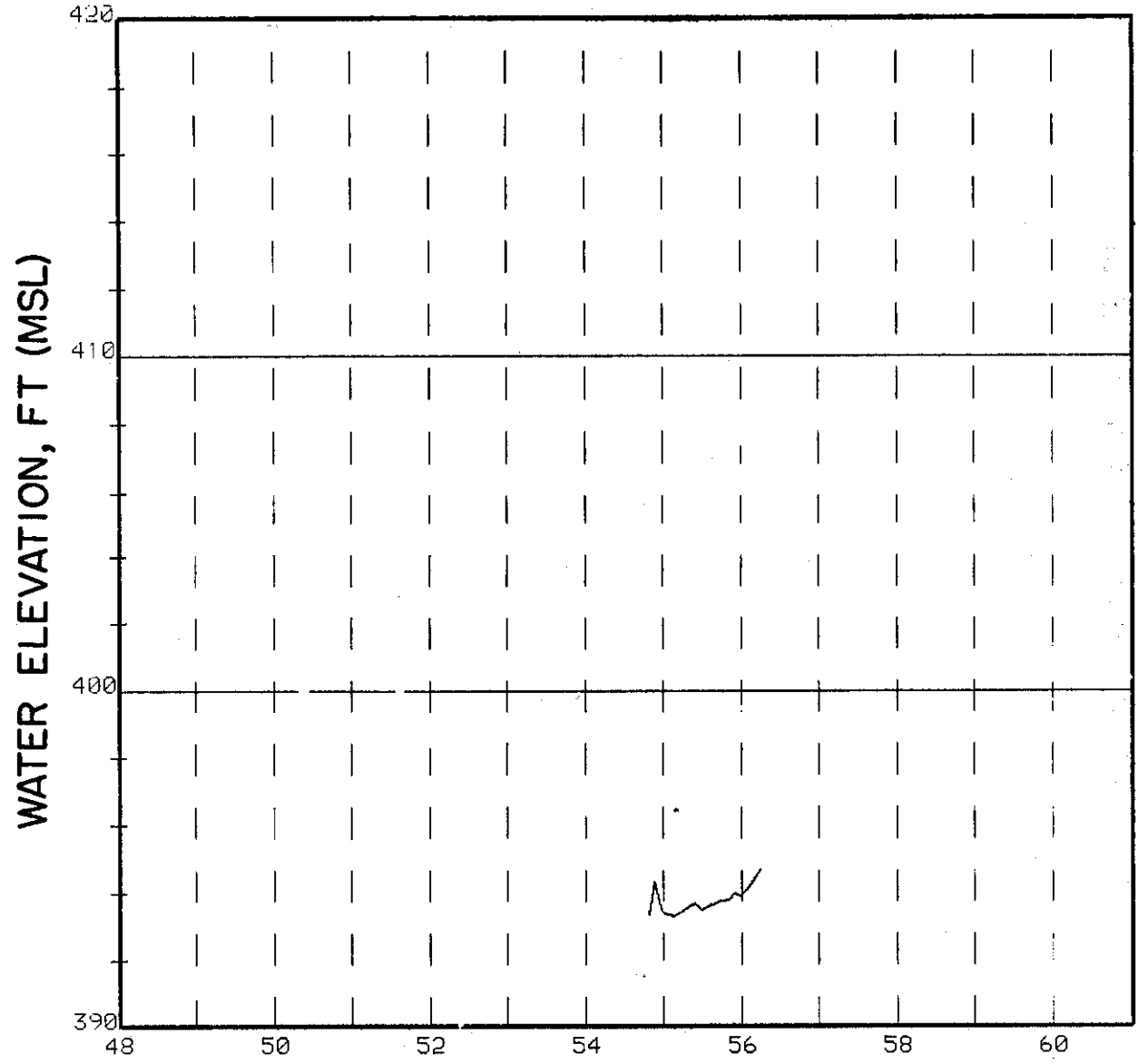

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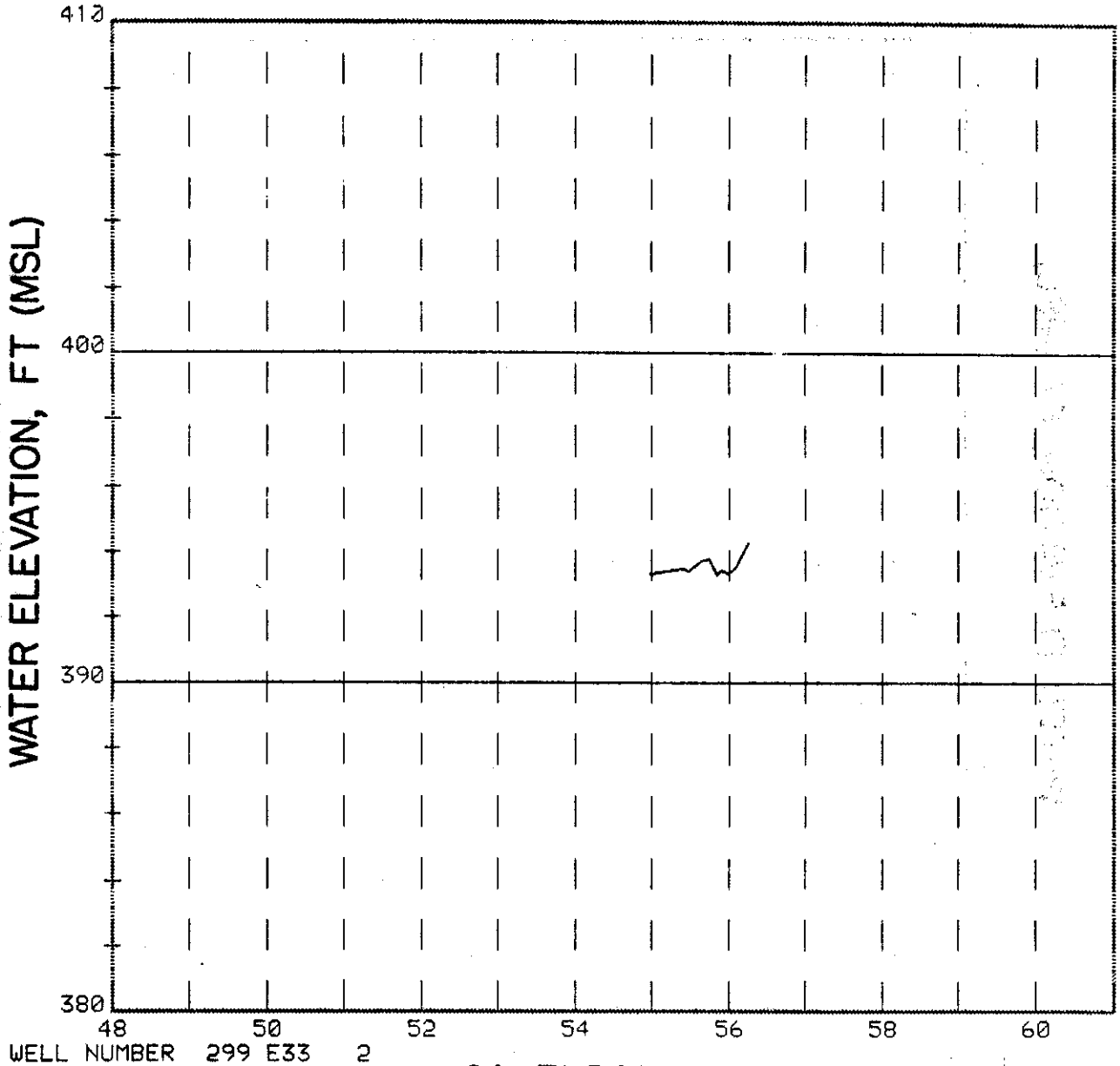

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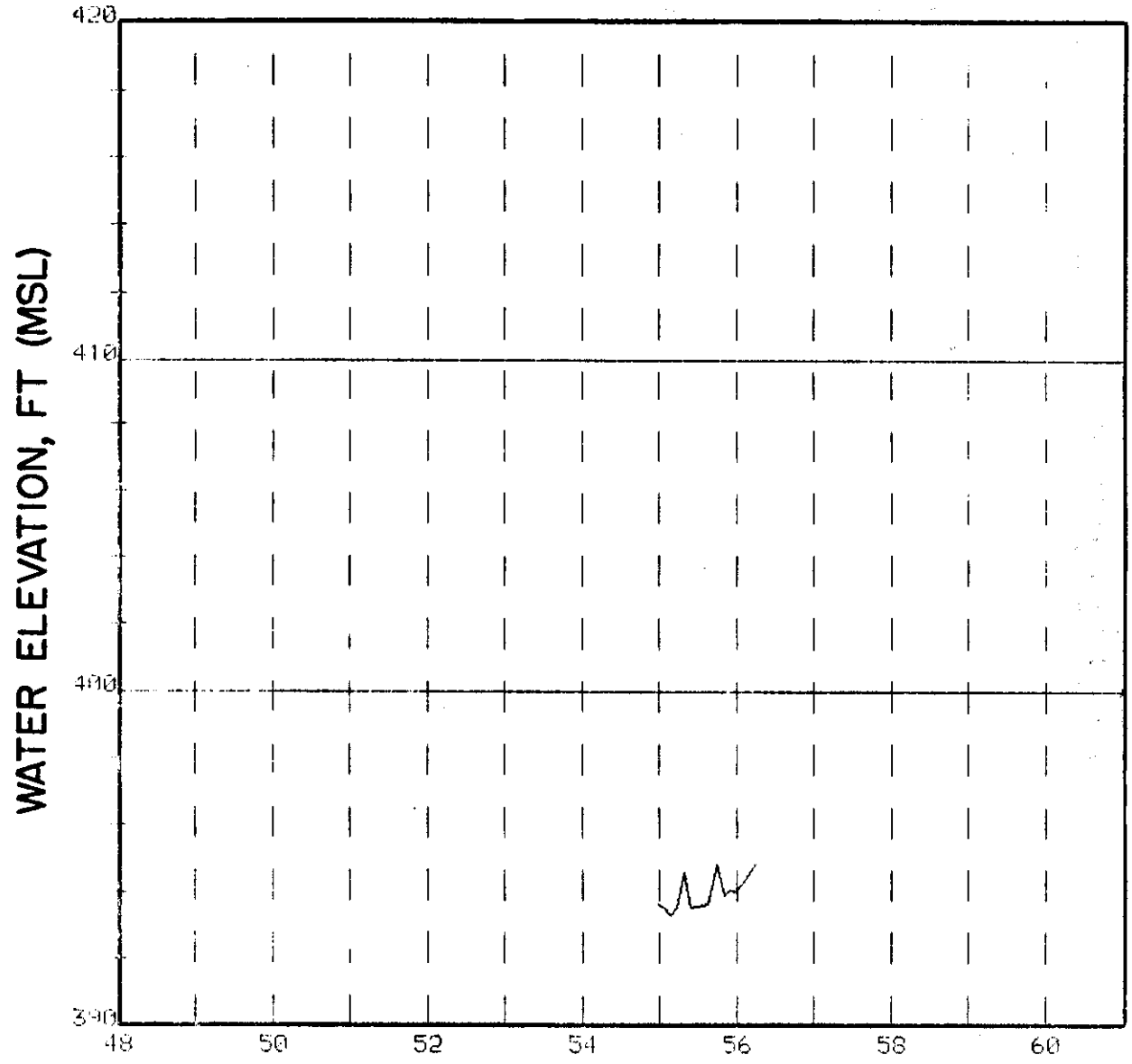

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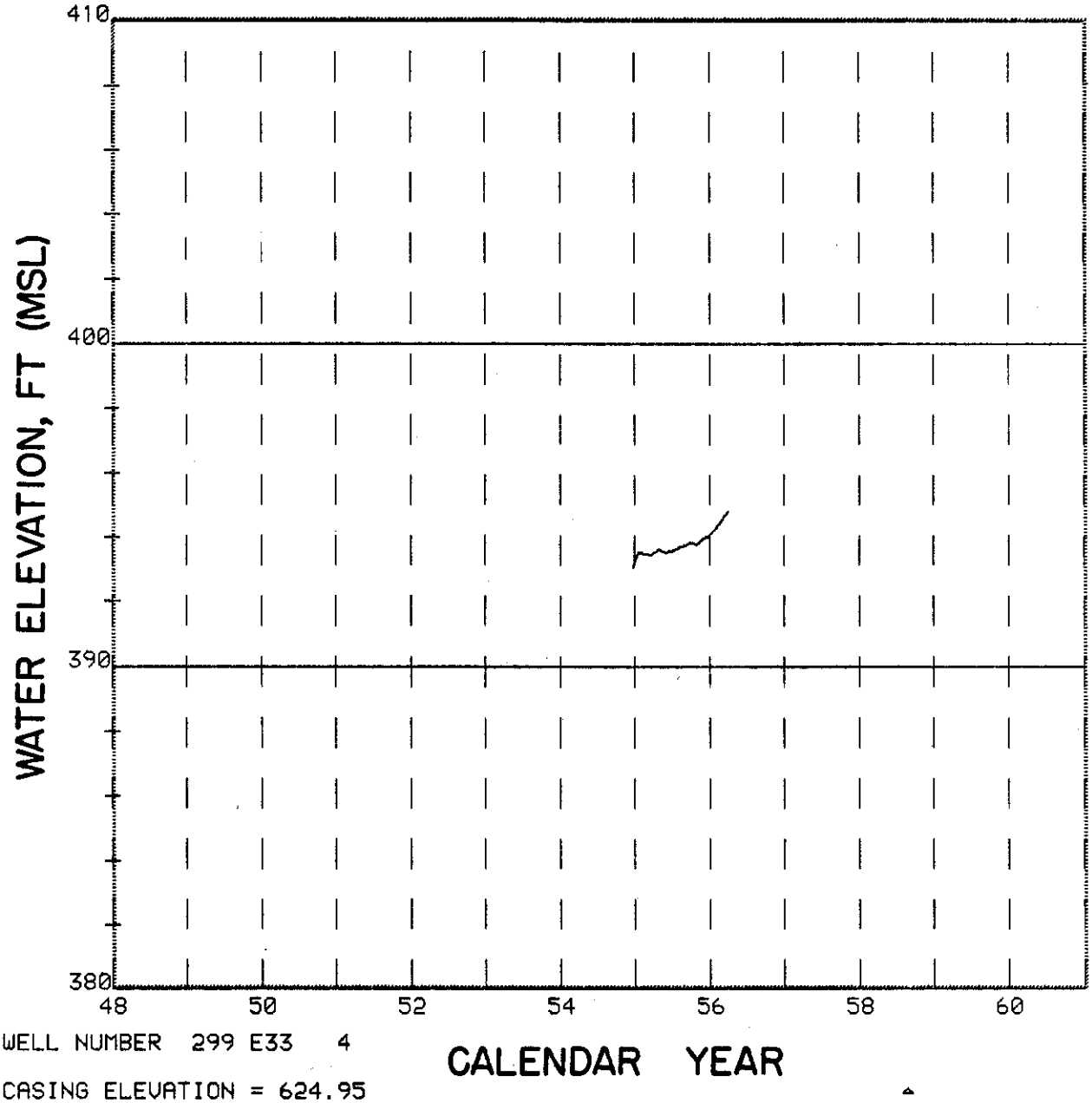

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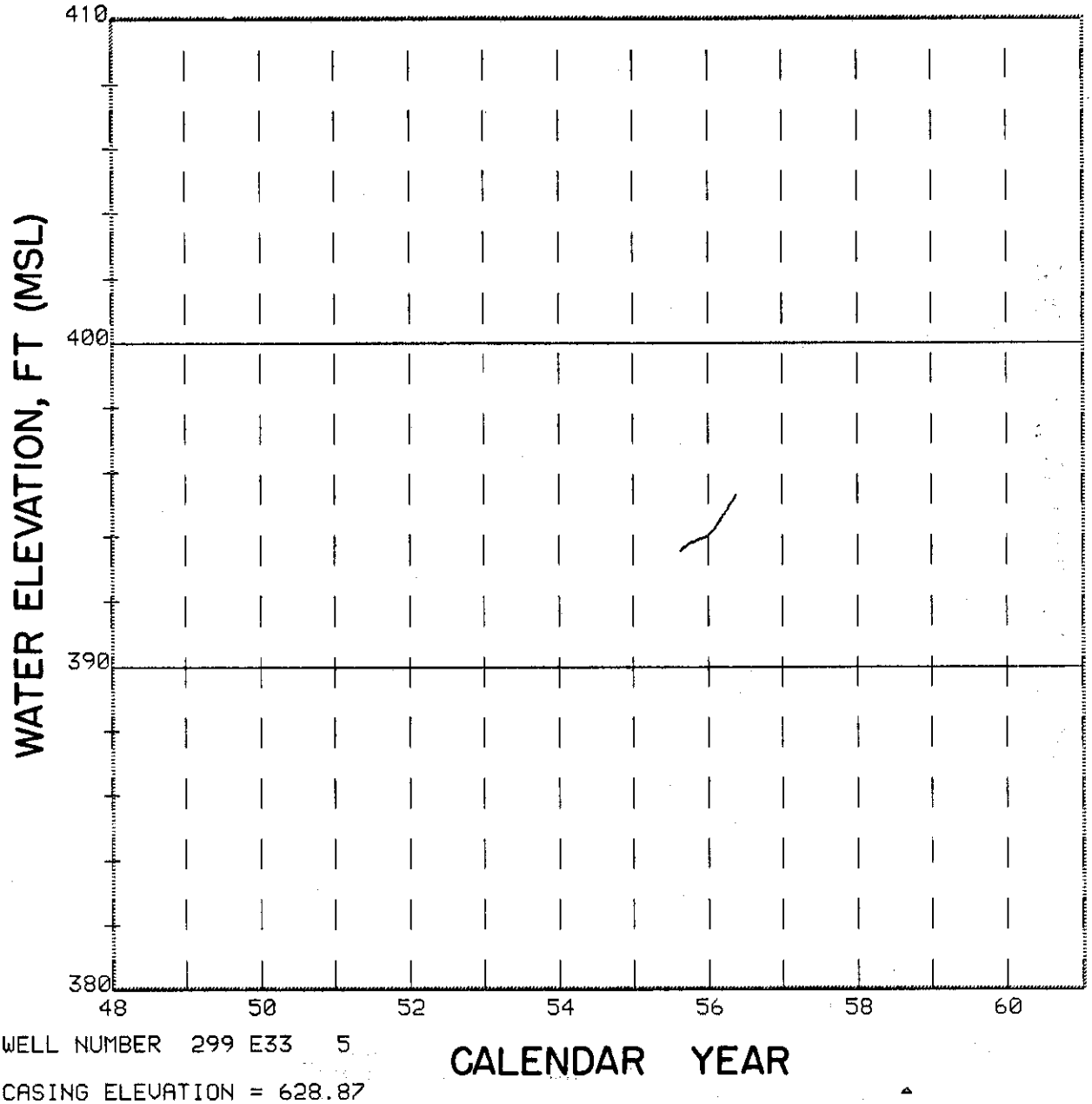

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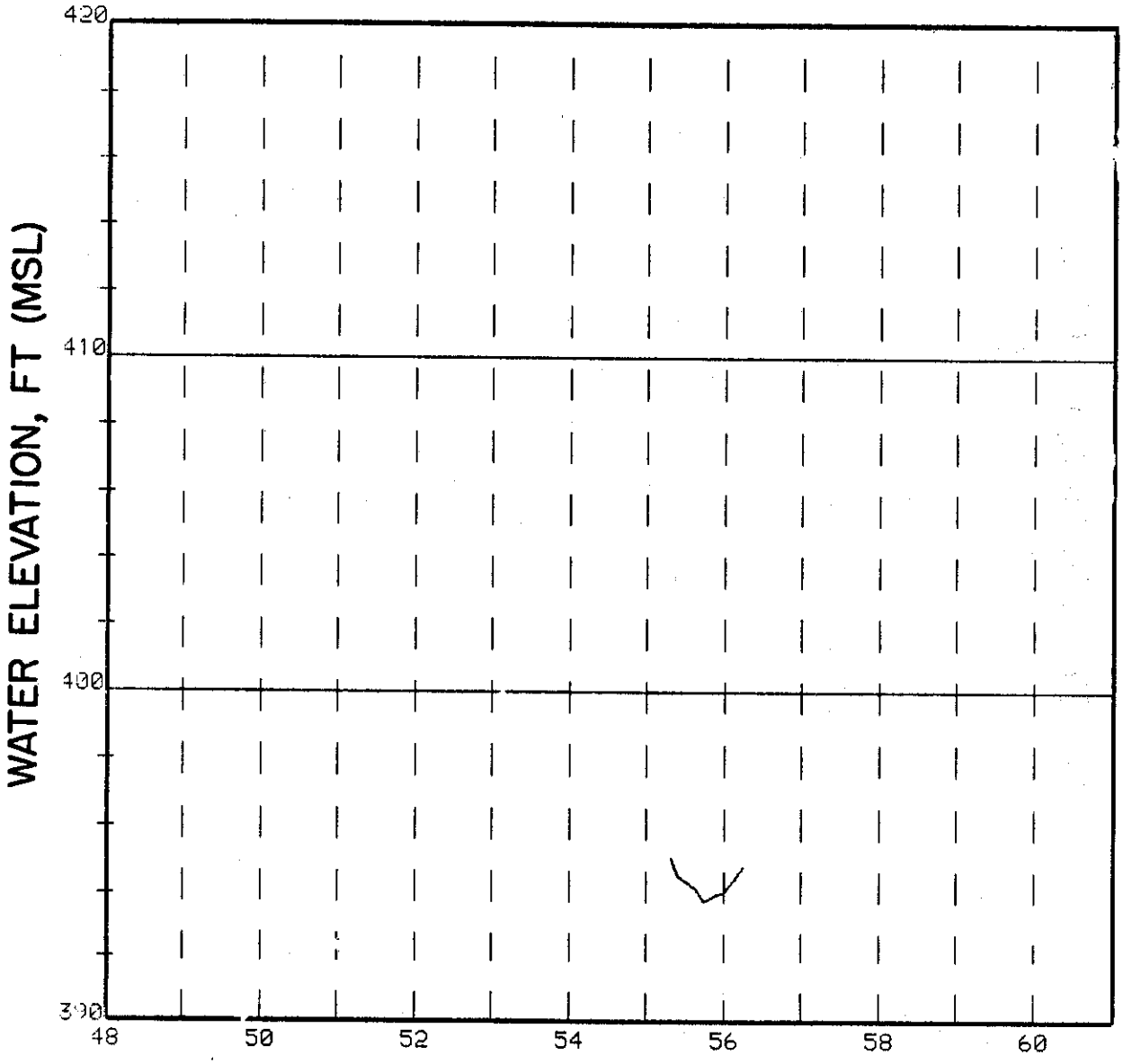

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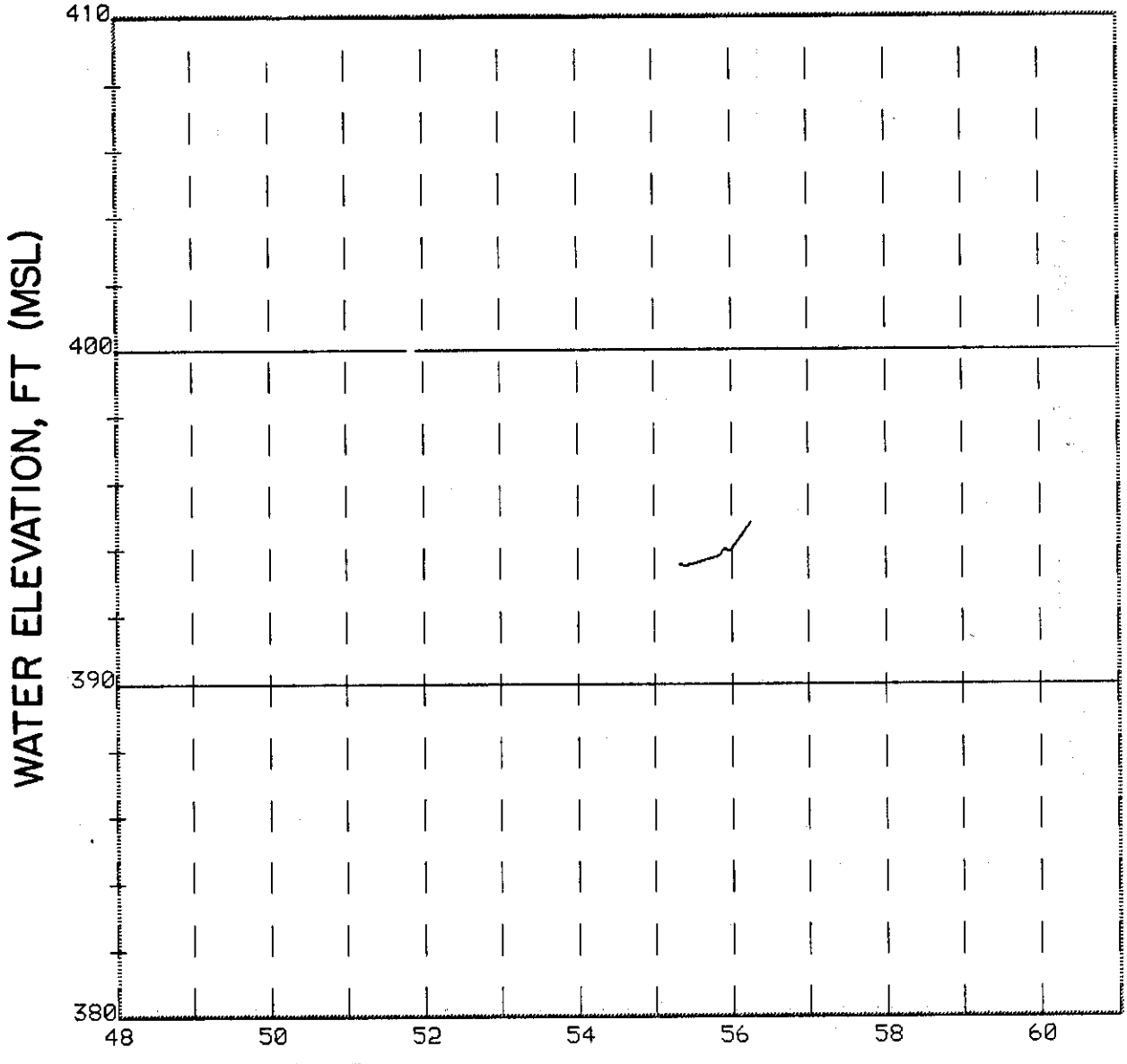

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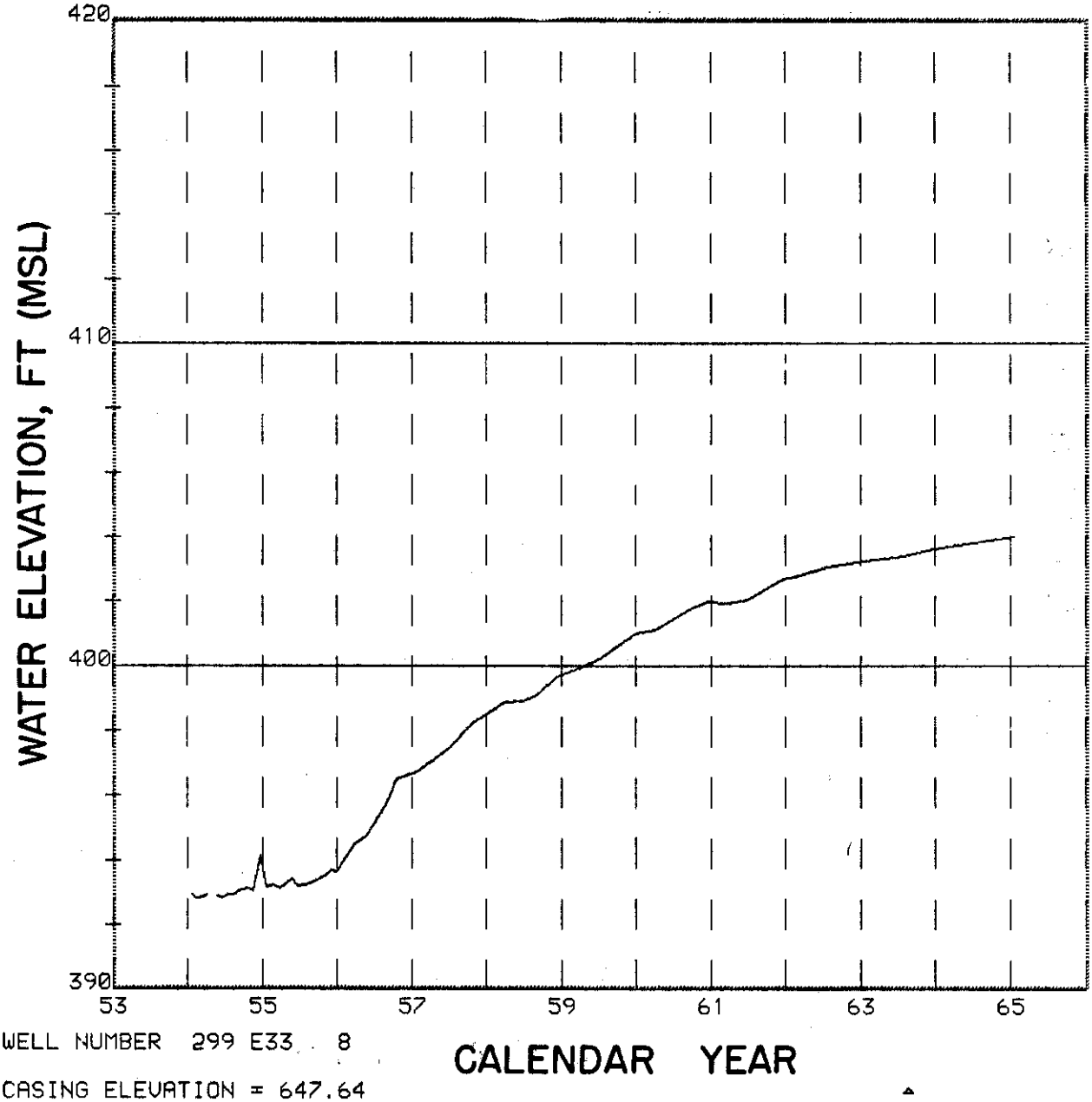

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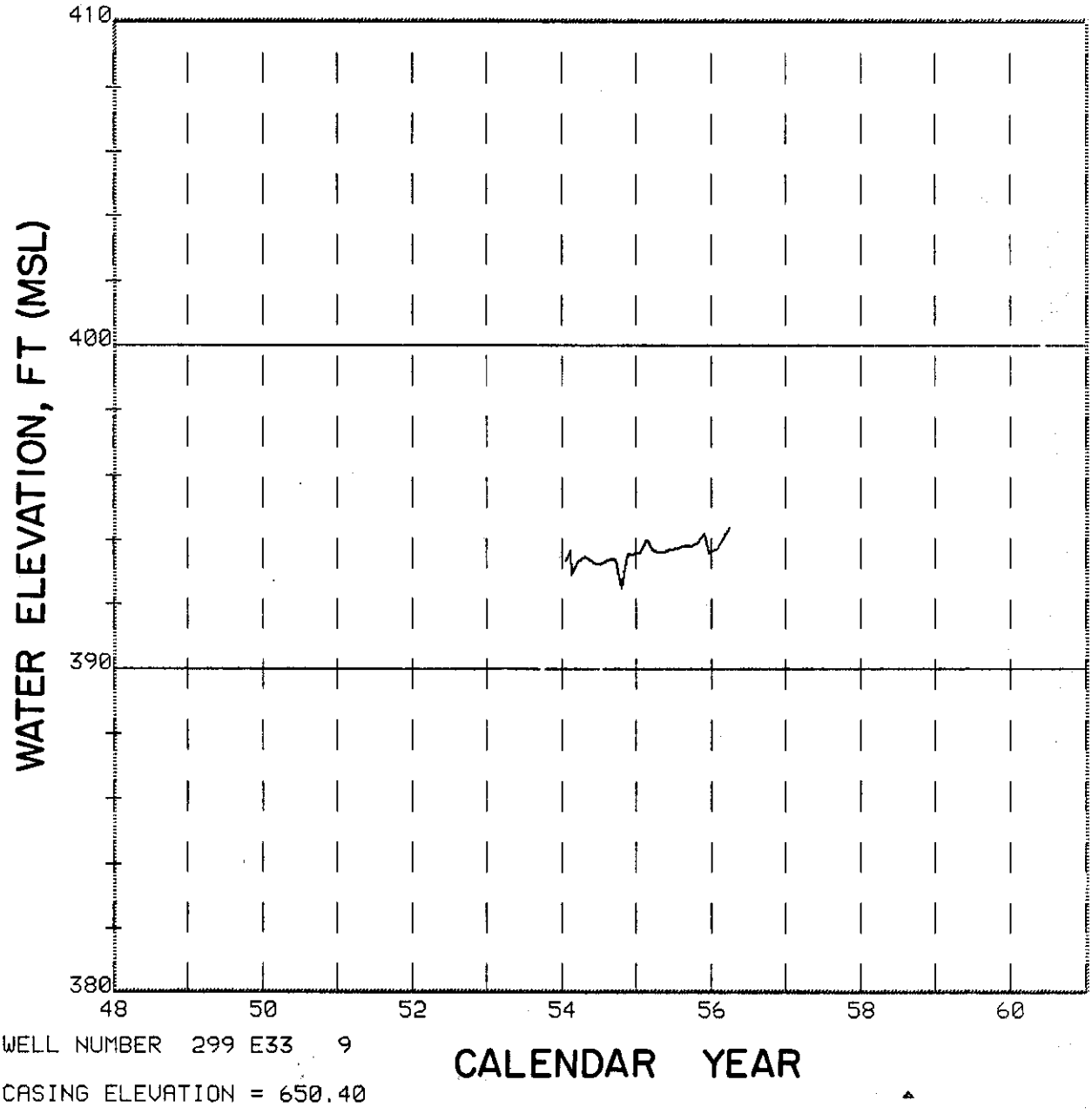

WELL NUMBER 299 E33 9

CASING ELEVATION = 650.40

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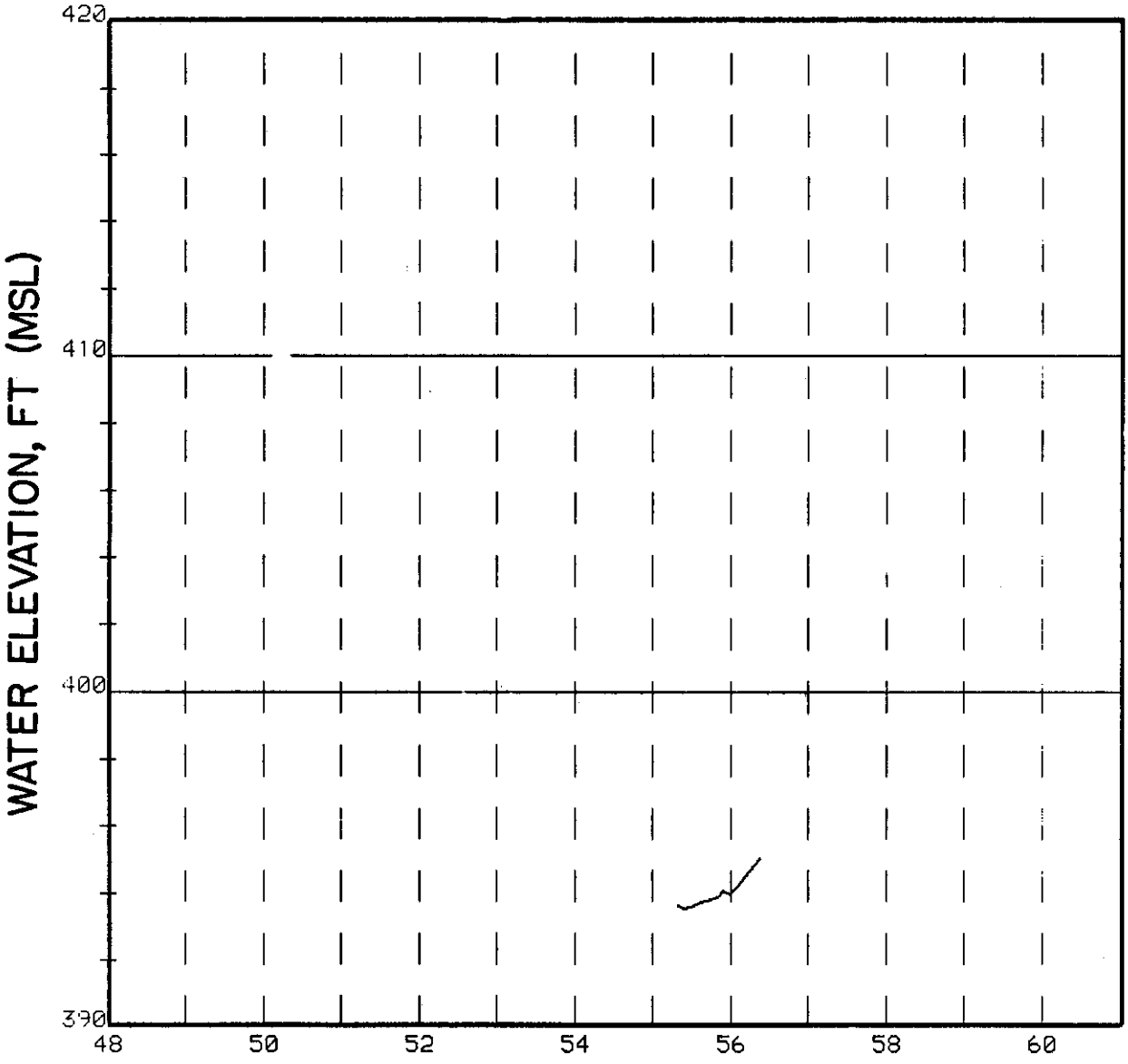

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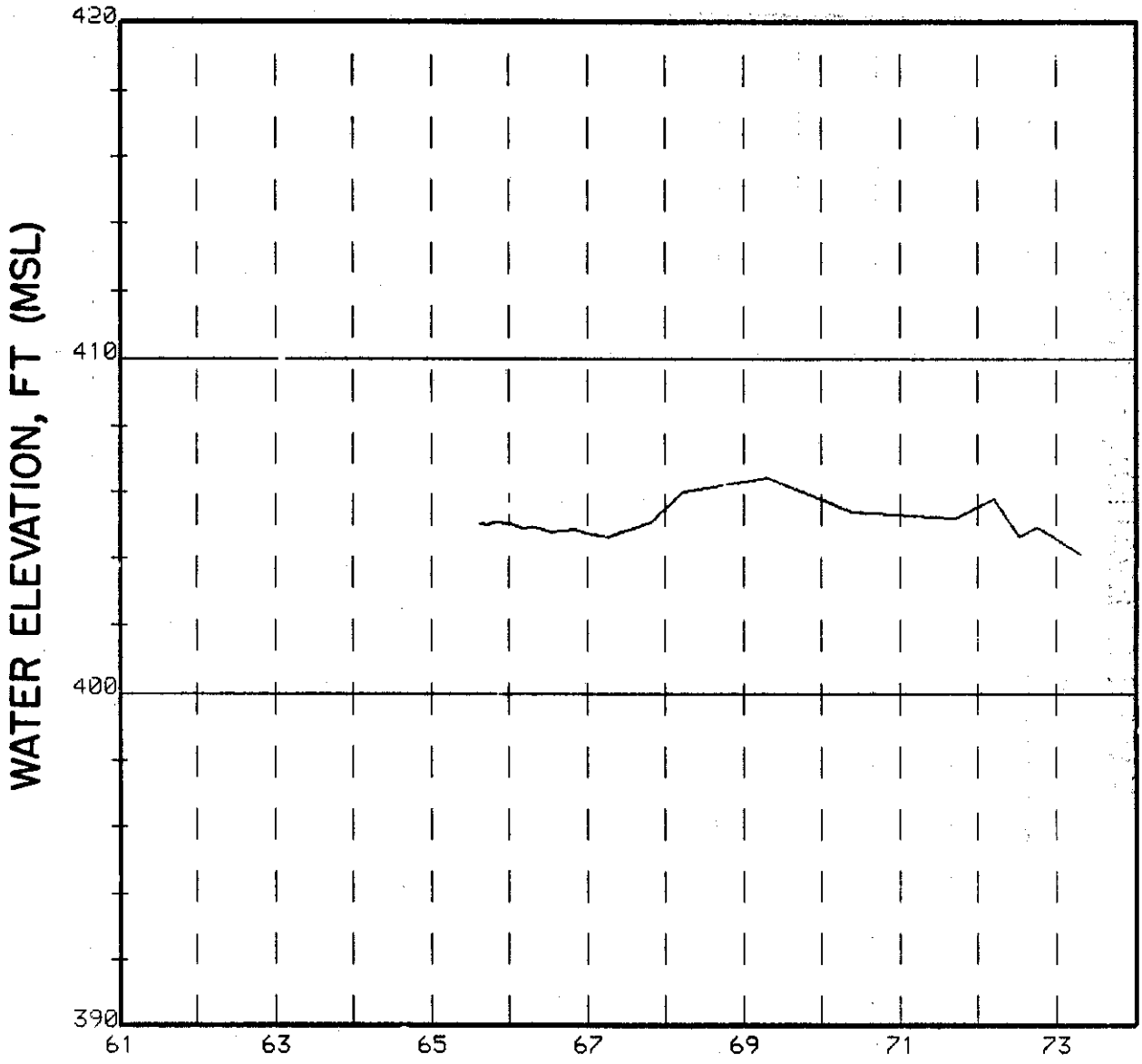

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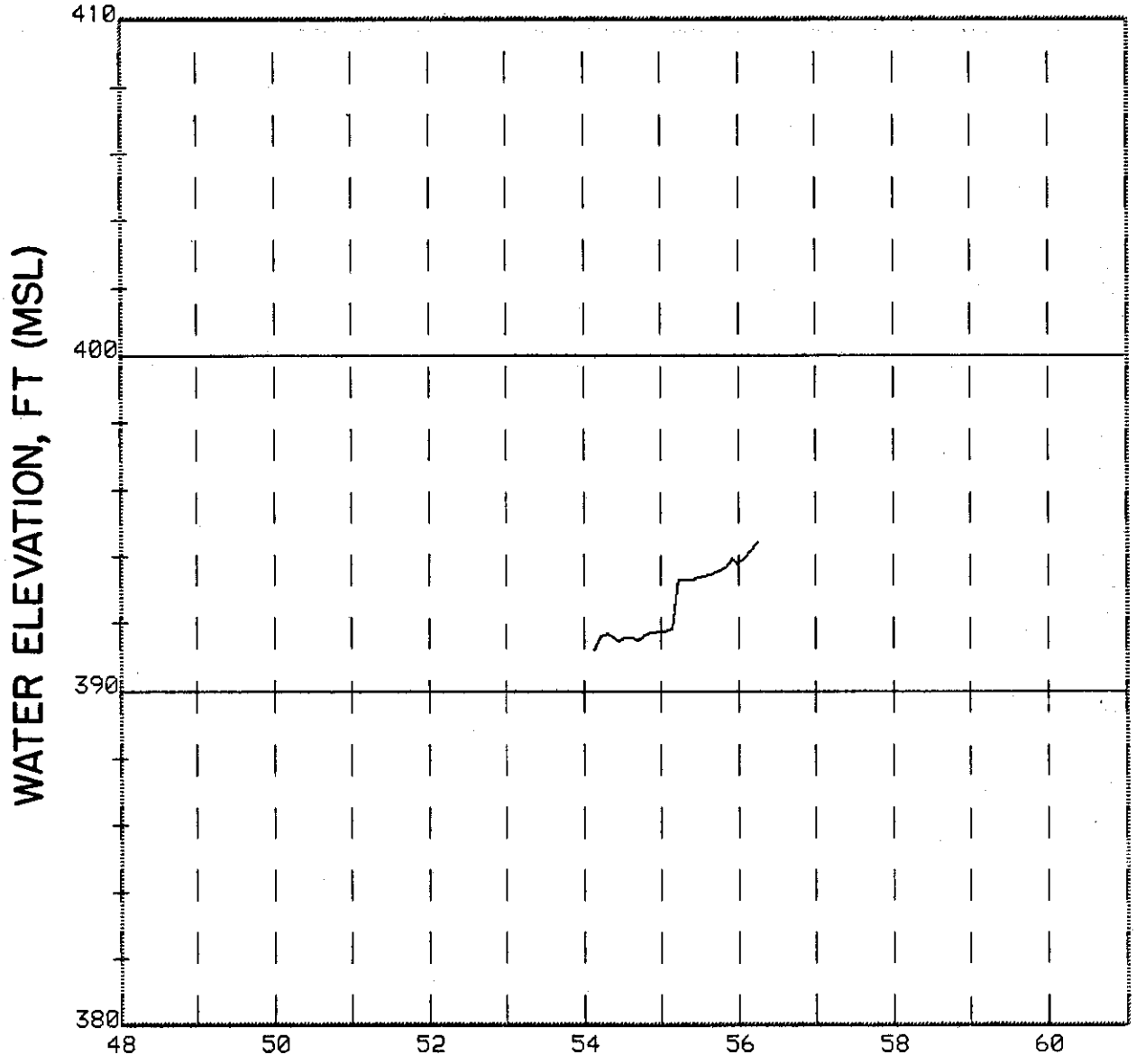

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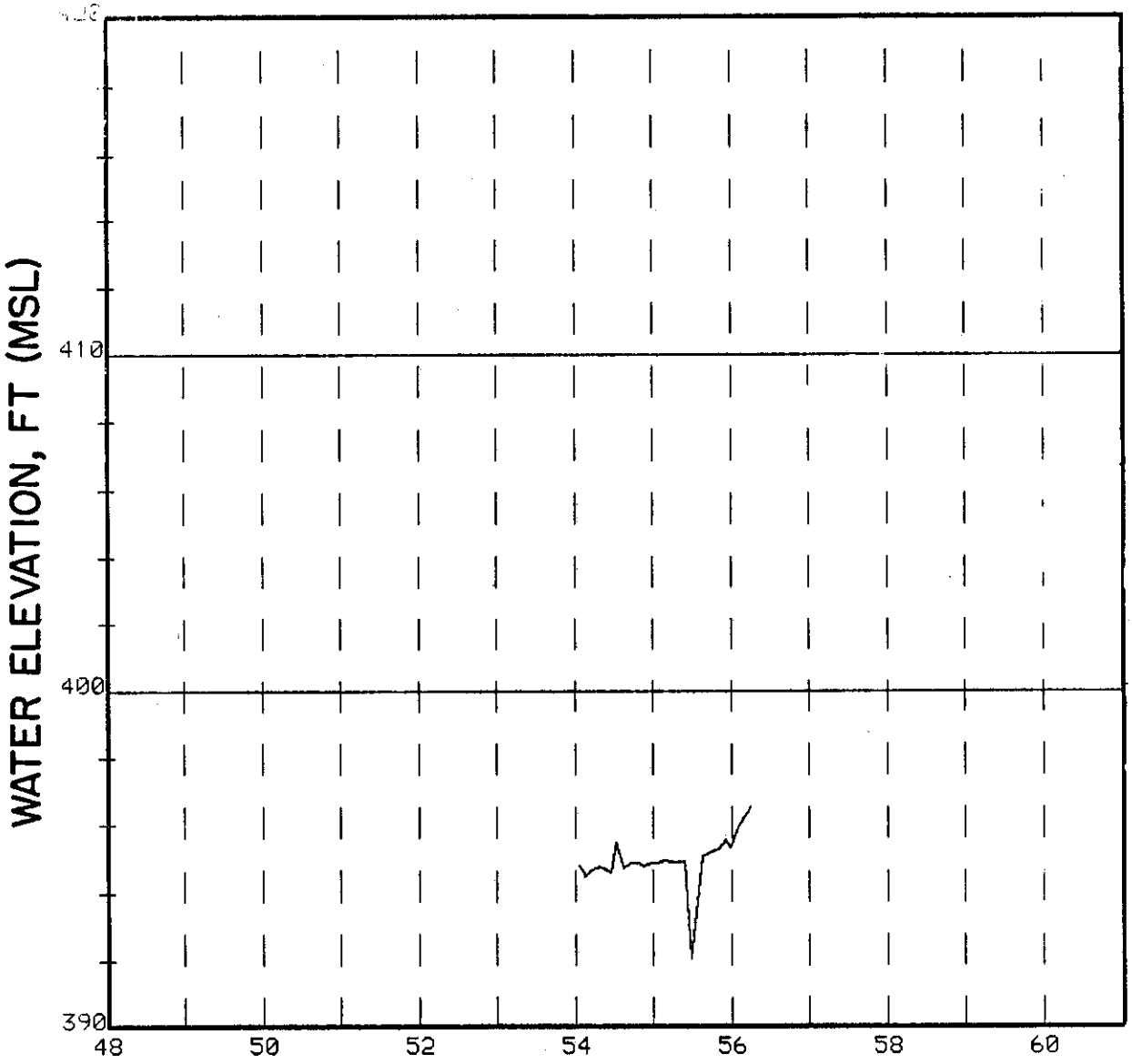

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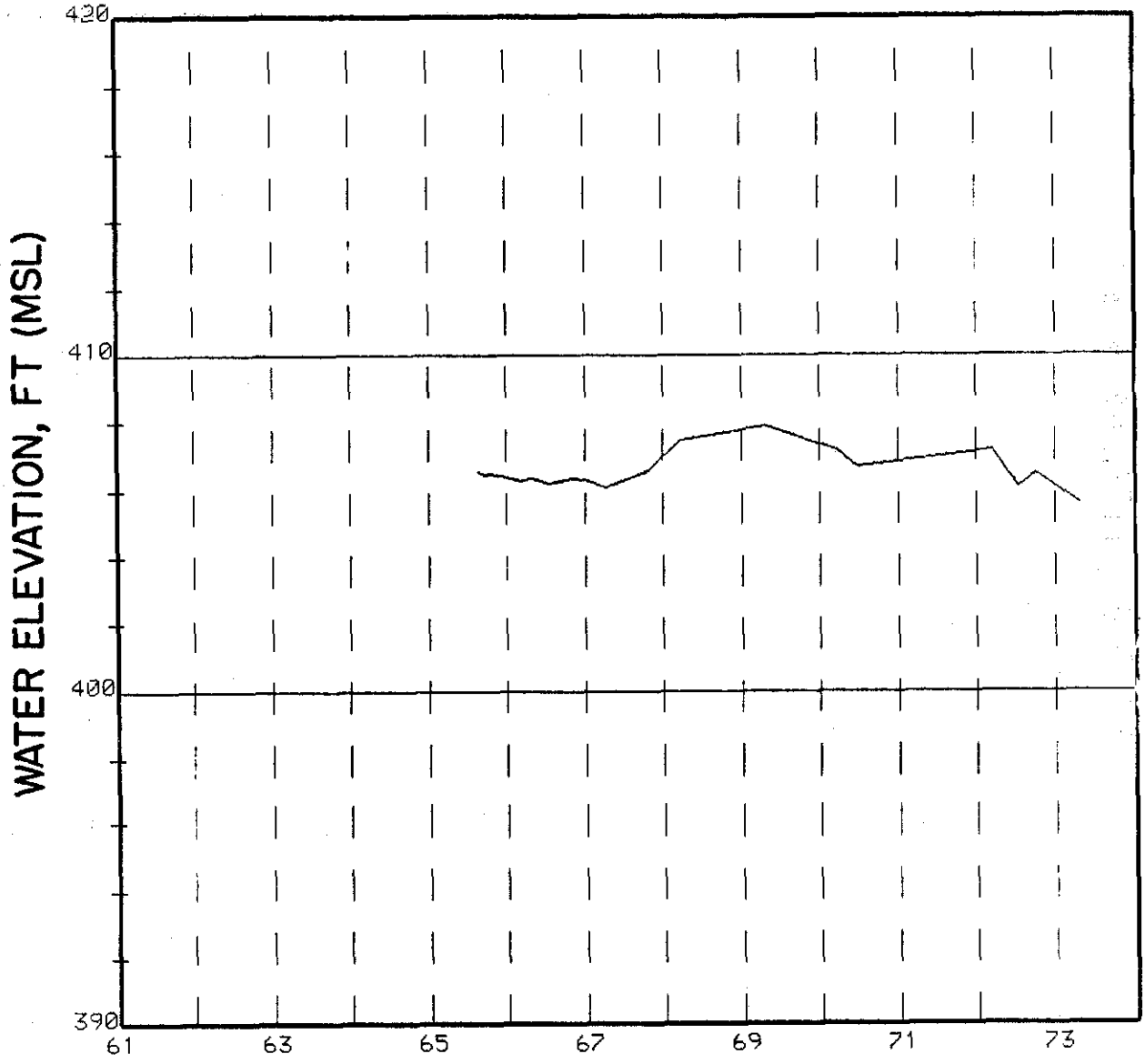

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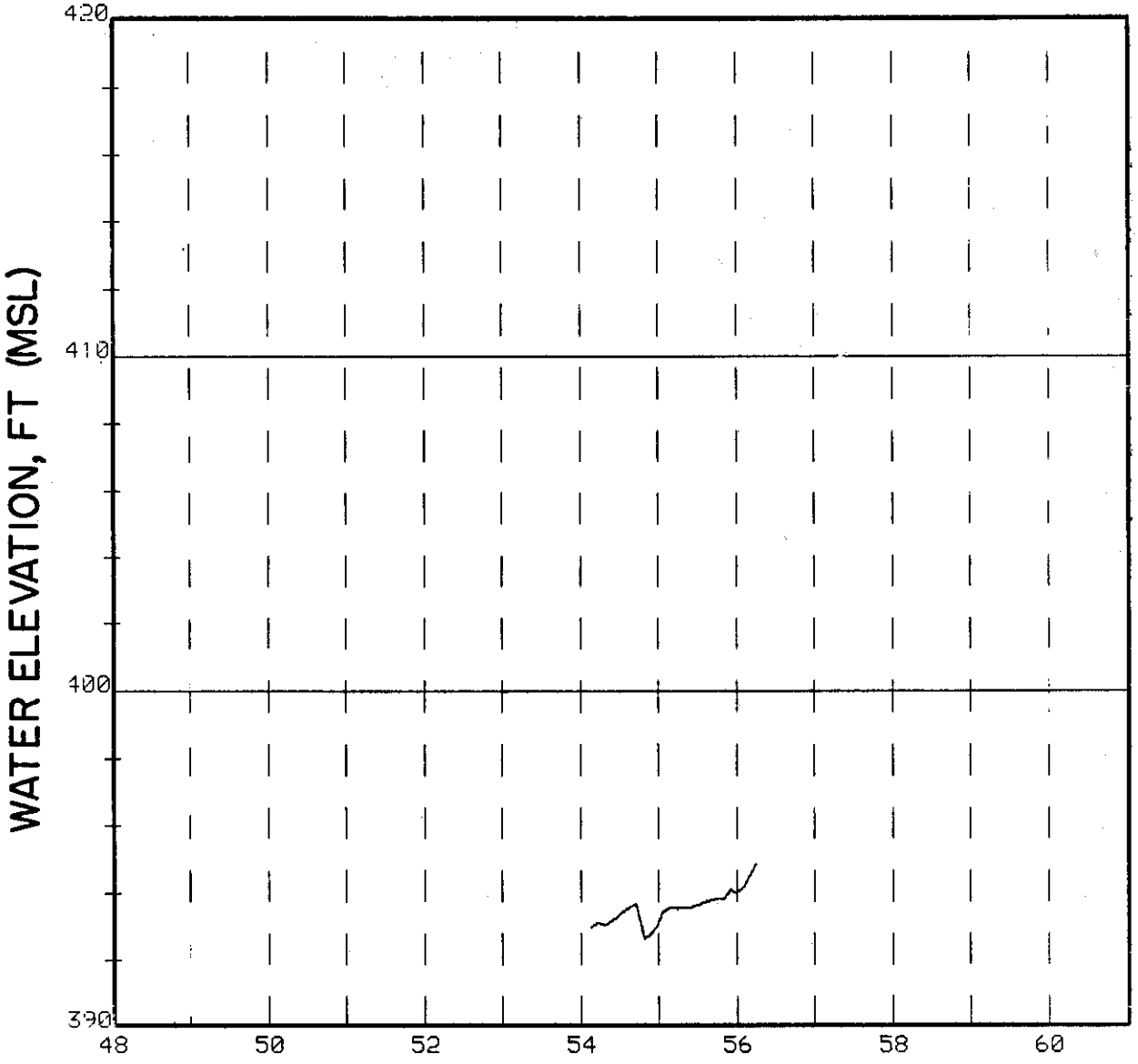

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CASING ELEVATION = 625.53

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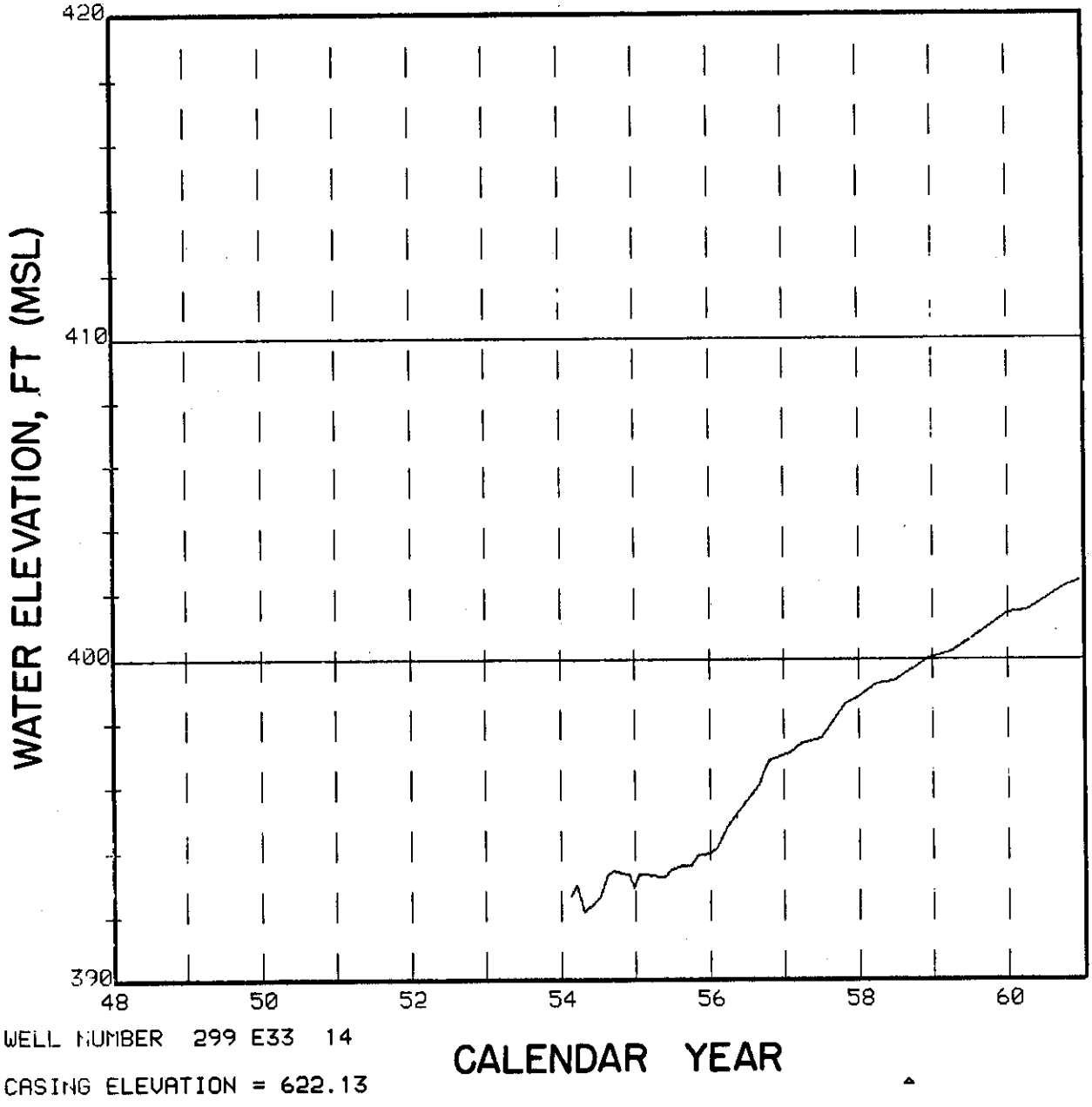

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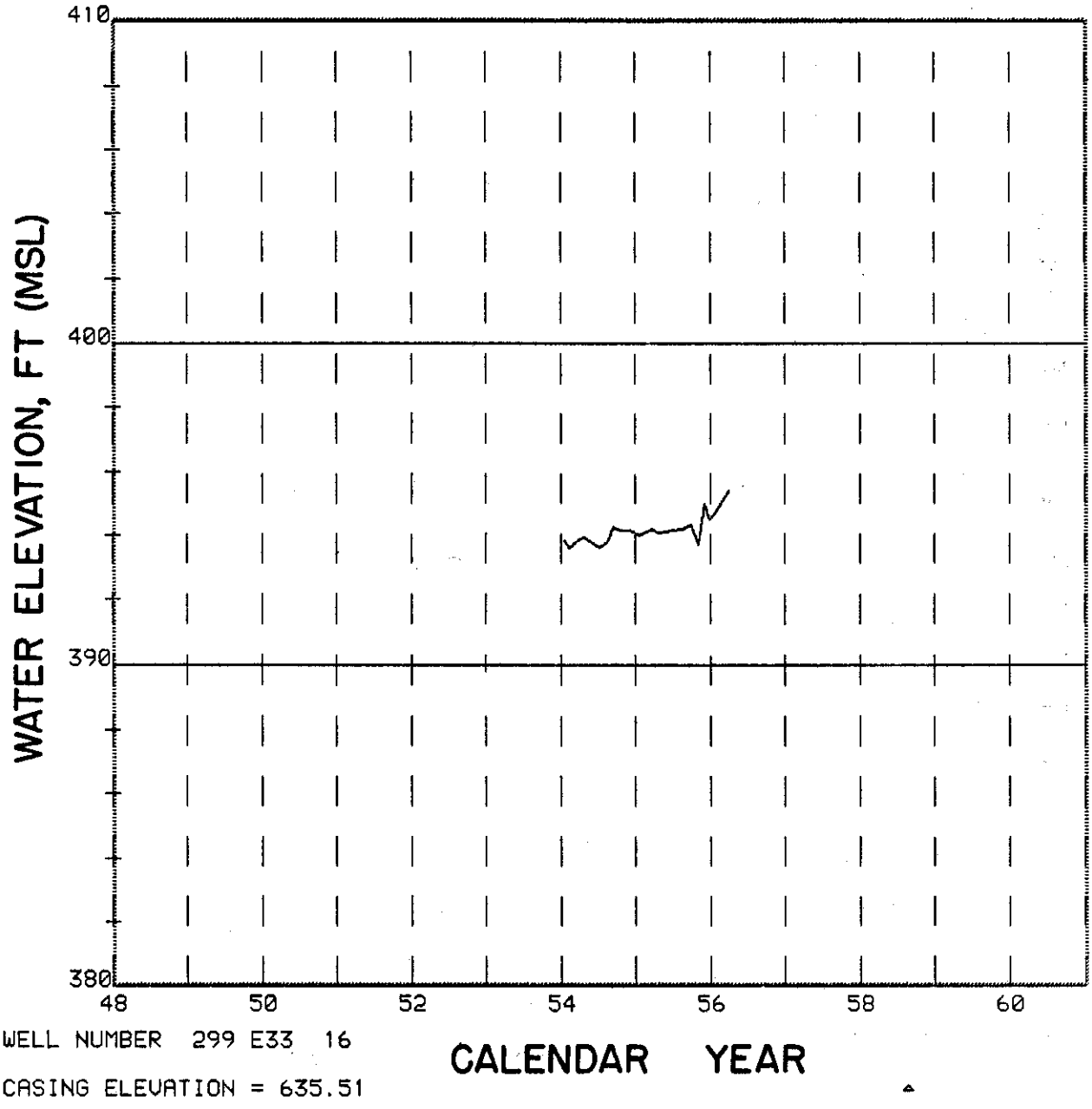

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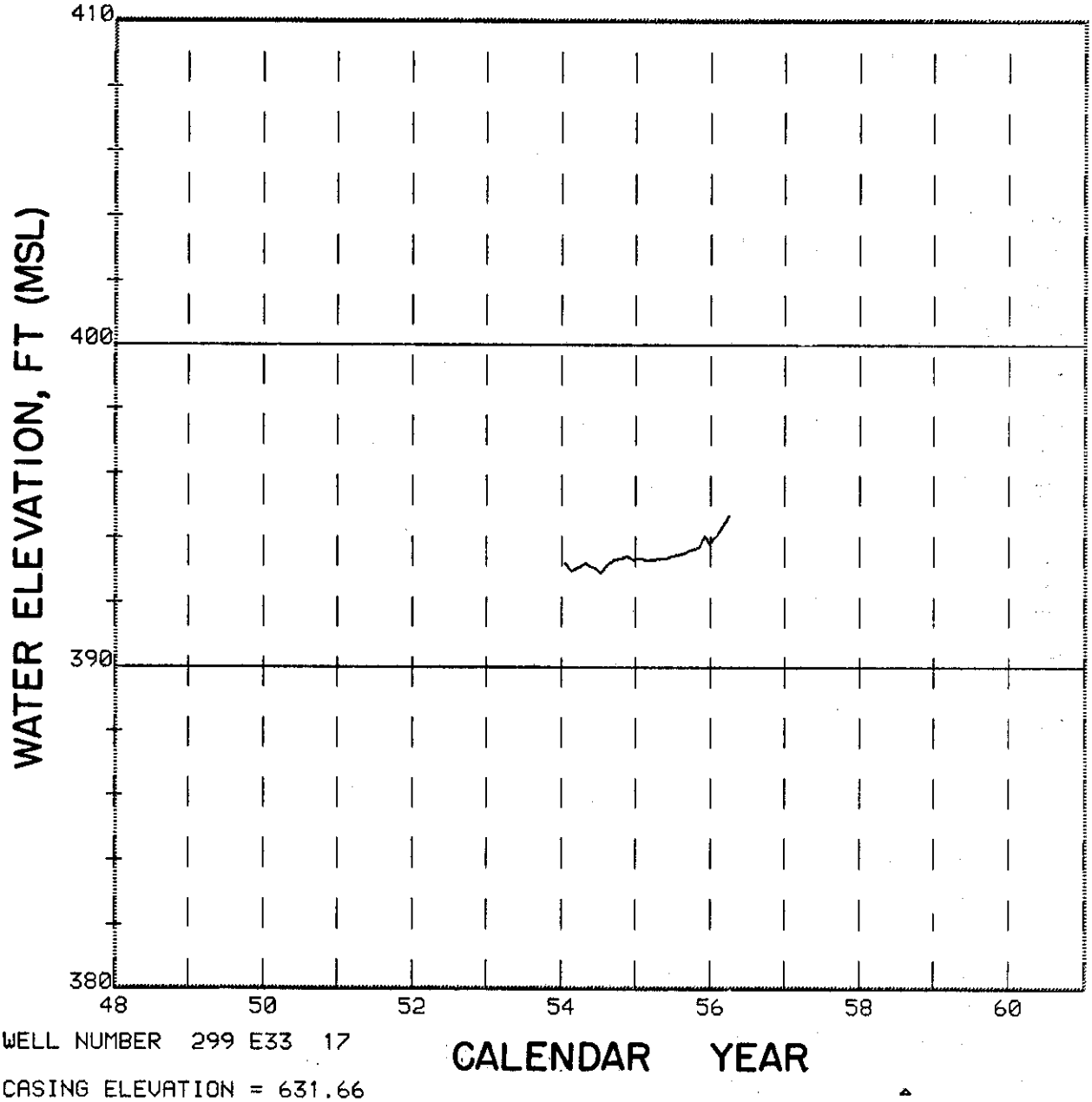

WELL NUMBER 299 E33 17

CASING ELEVATION = 631.66

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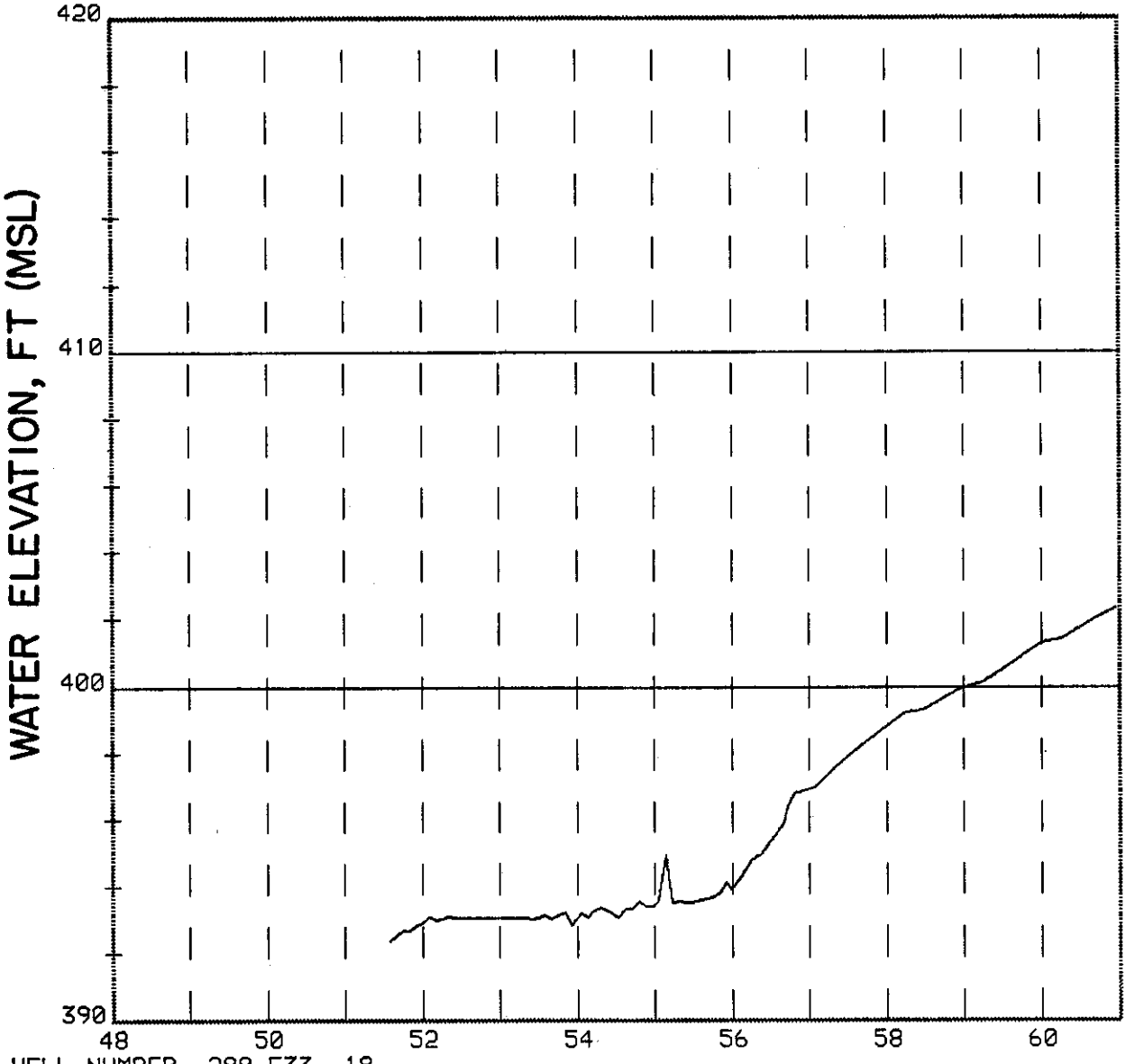

WELL NUMBER 299 E33 18

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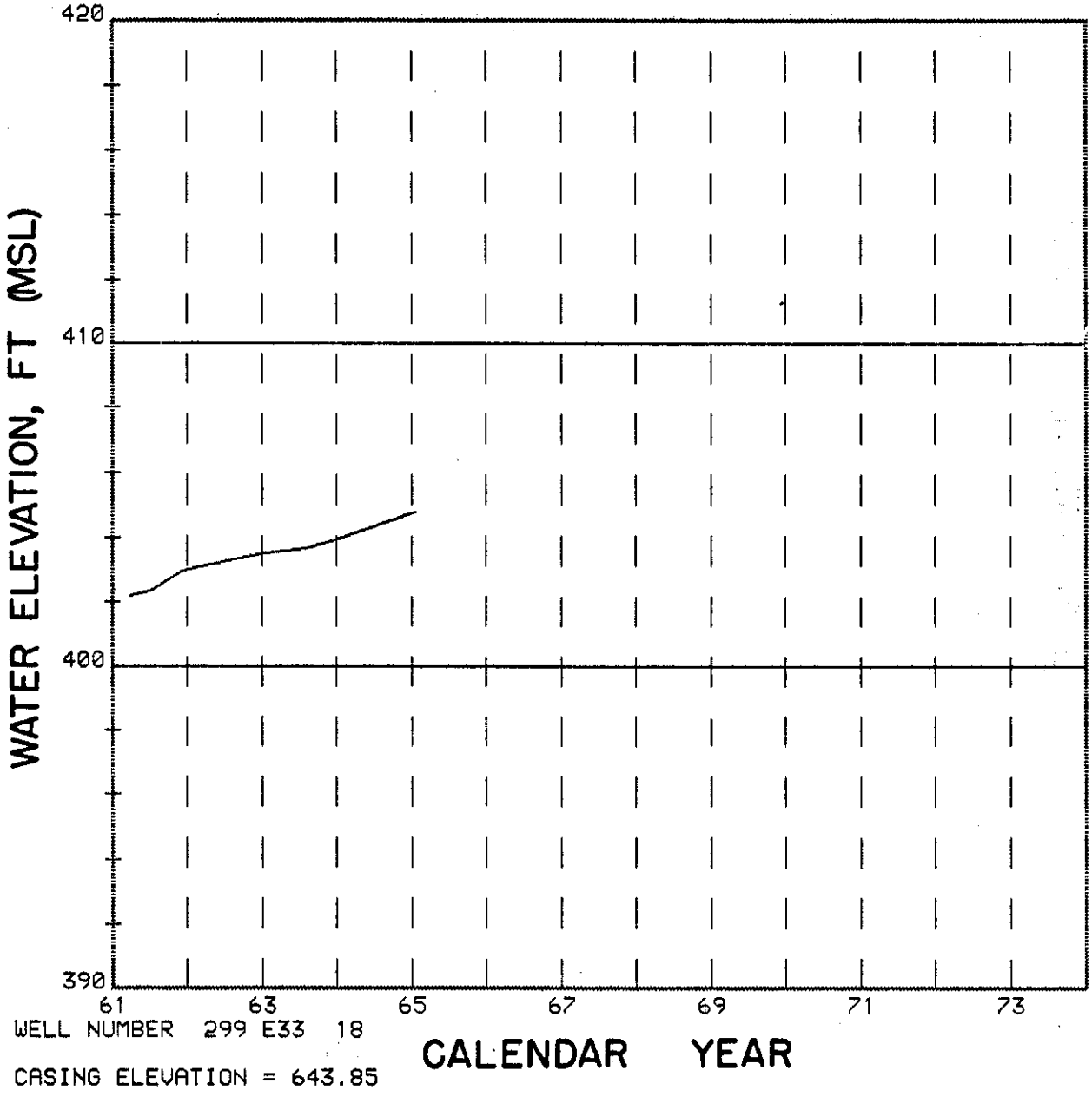
420
410
400
390
WATER ELEVATION, FT (MSL)
61
63
65
67
69
71
73
CALENDAR YEAR
WELL NUMBER 299 E33 18
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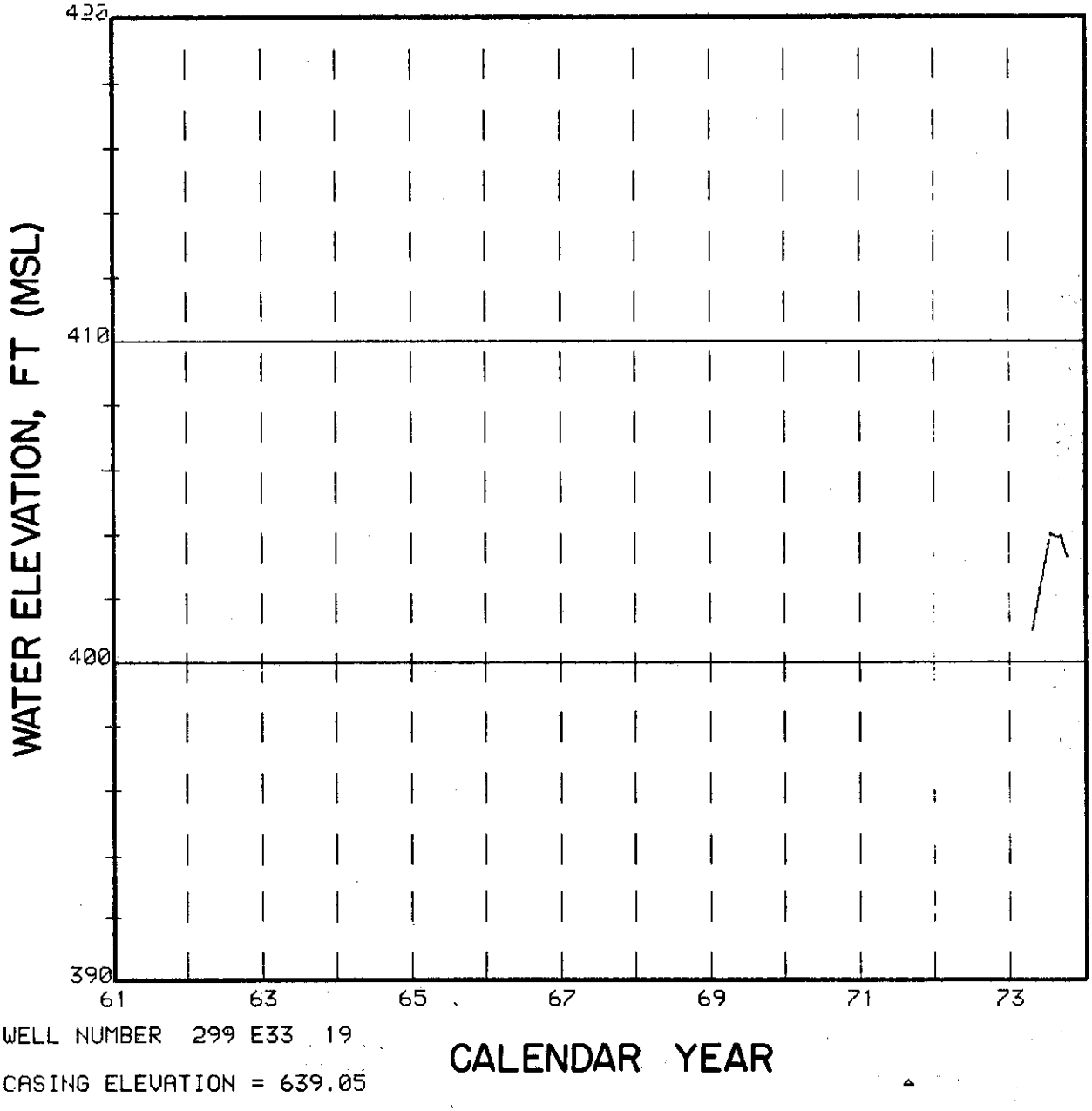

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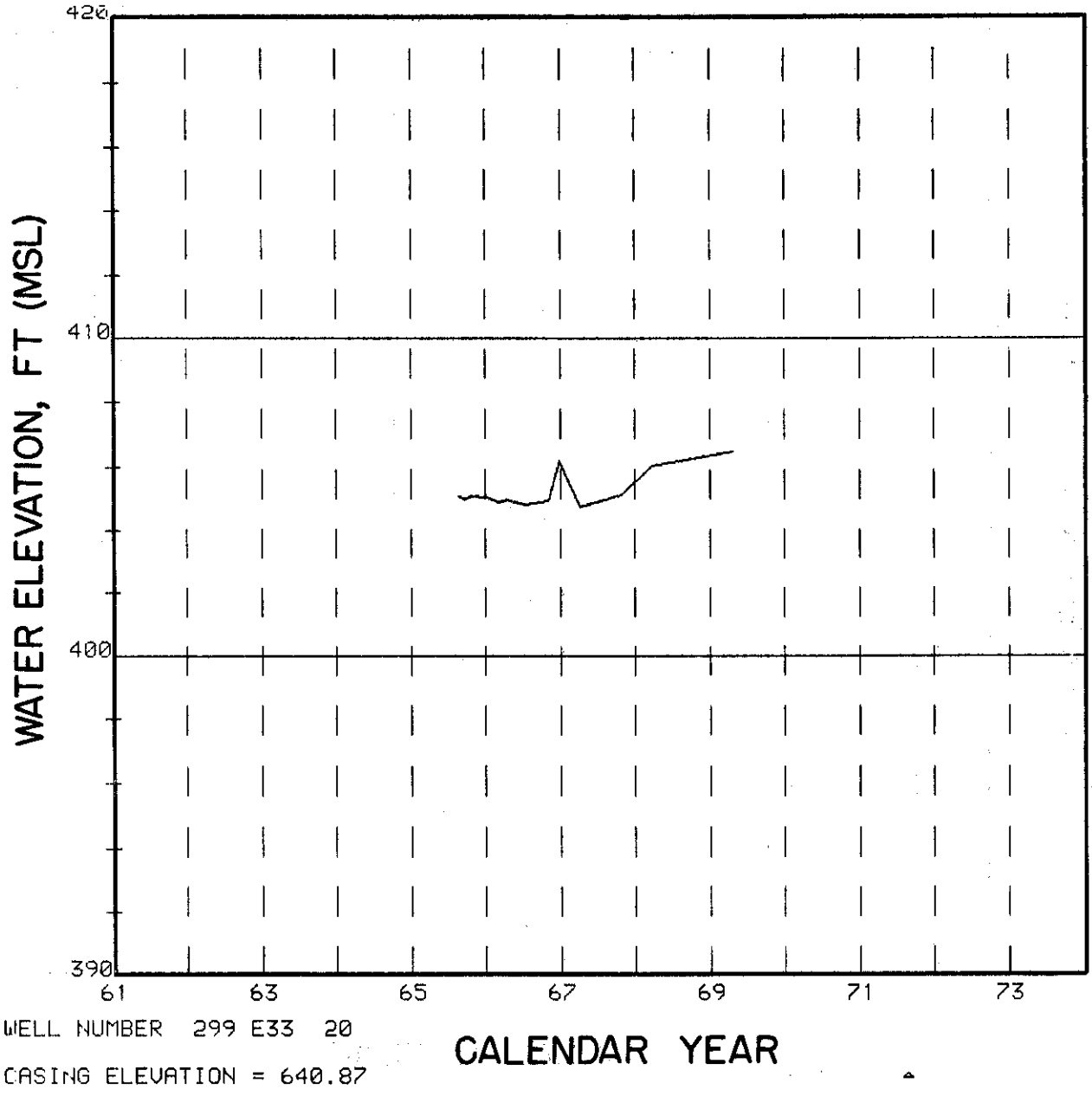

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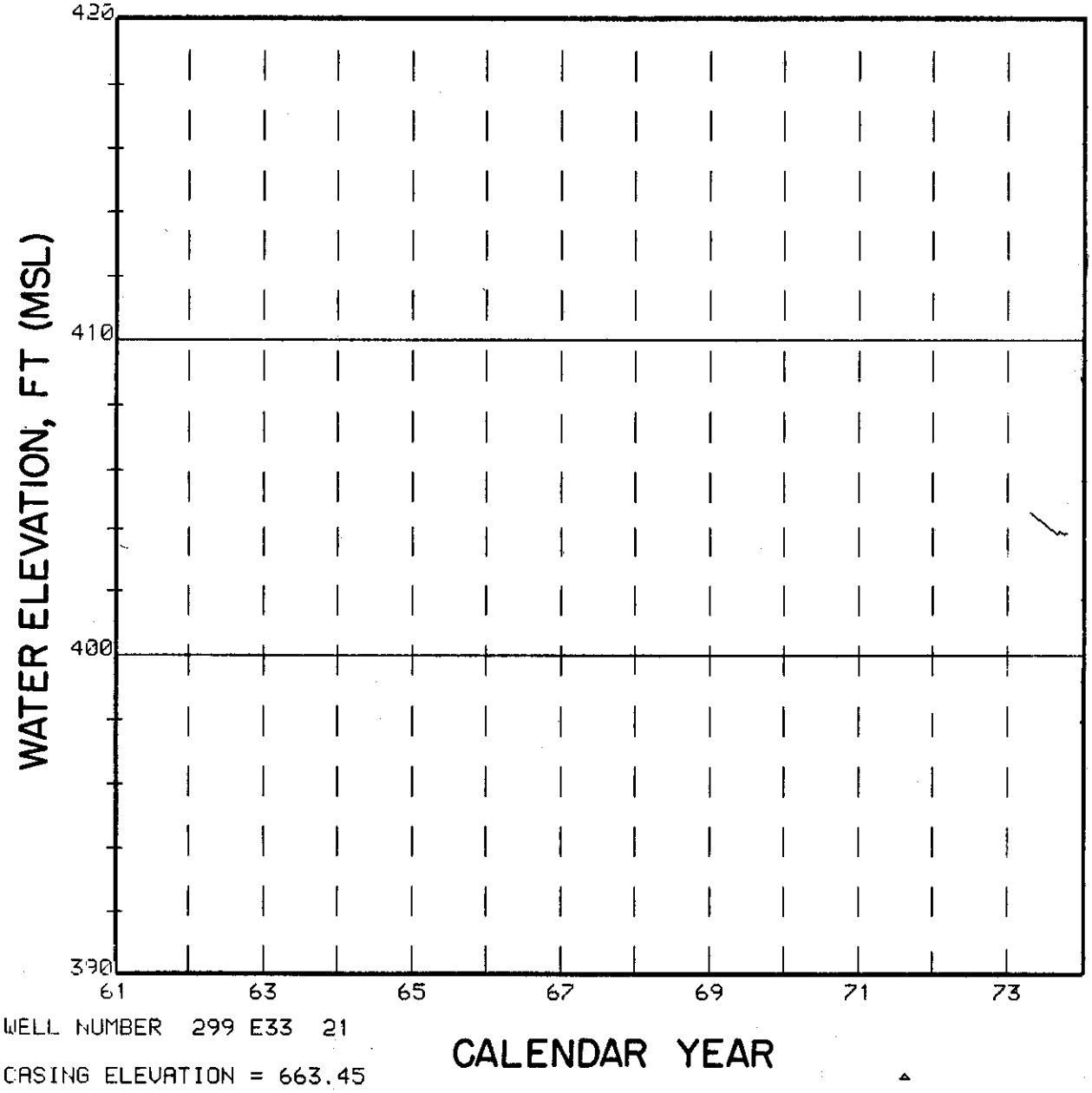

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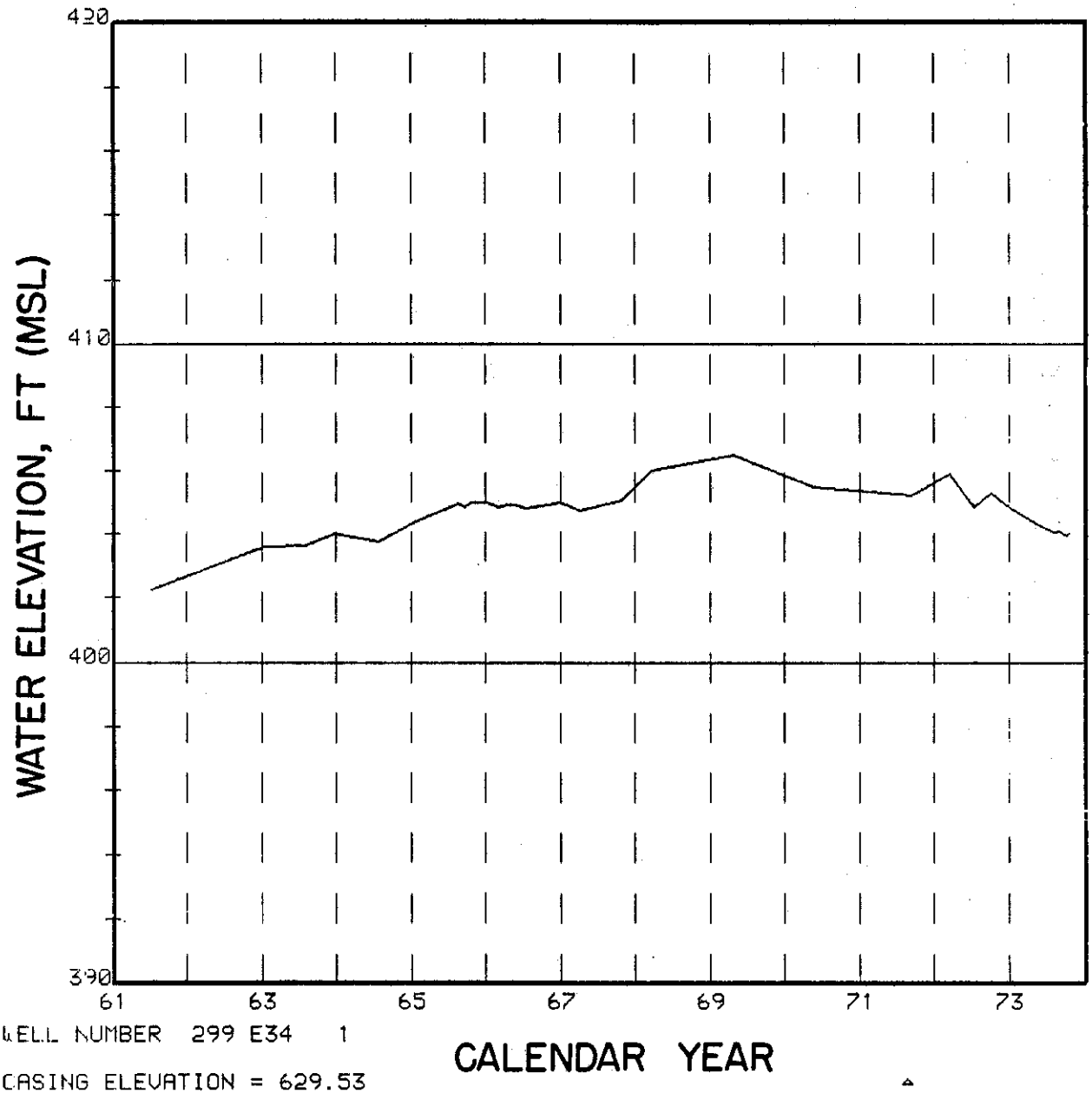

WELL NUMBER 299 E34 1

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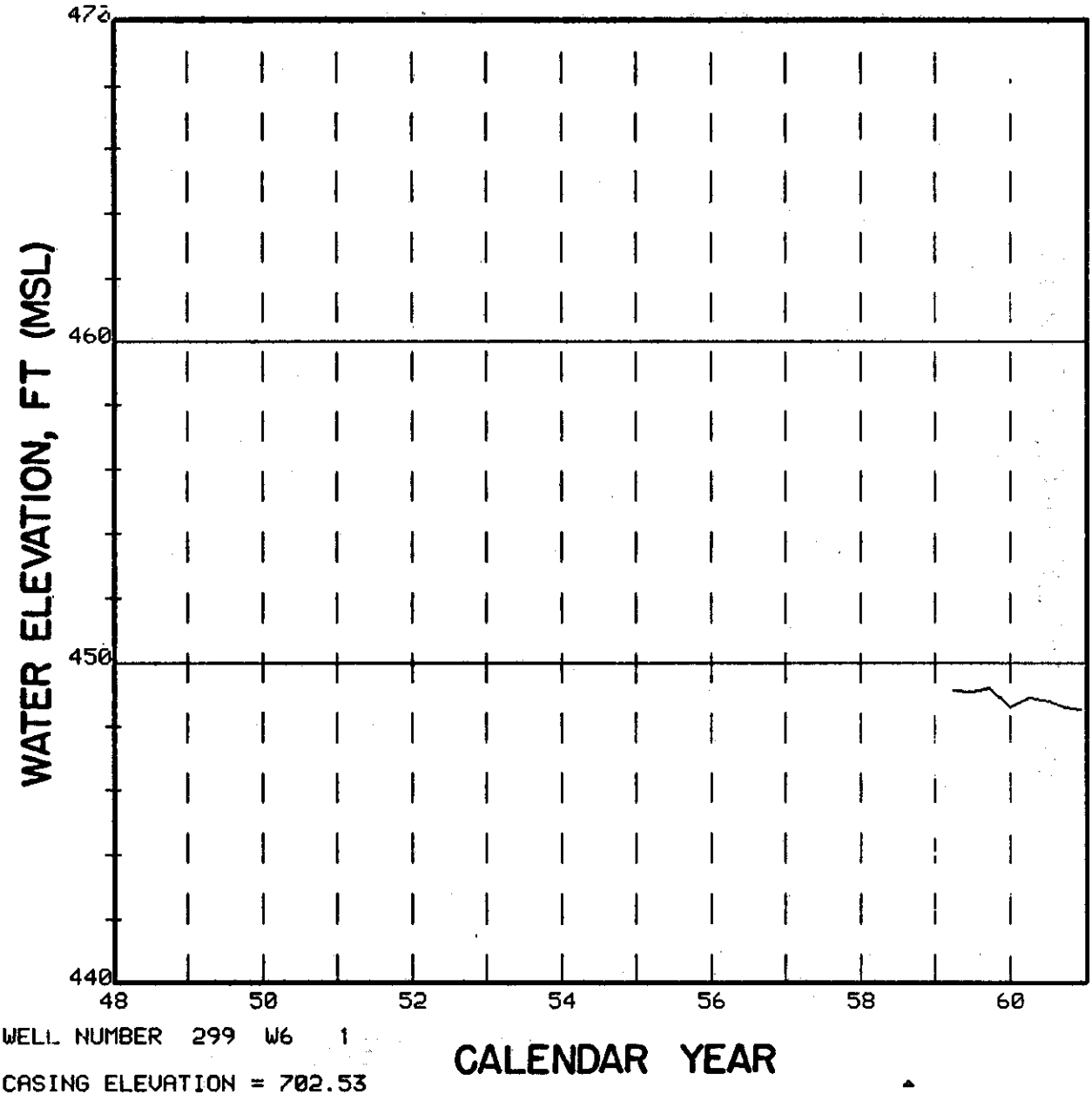

WELL NUMBER 299 W6 1

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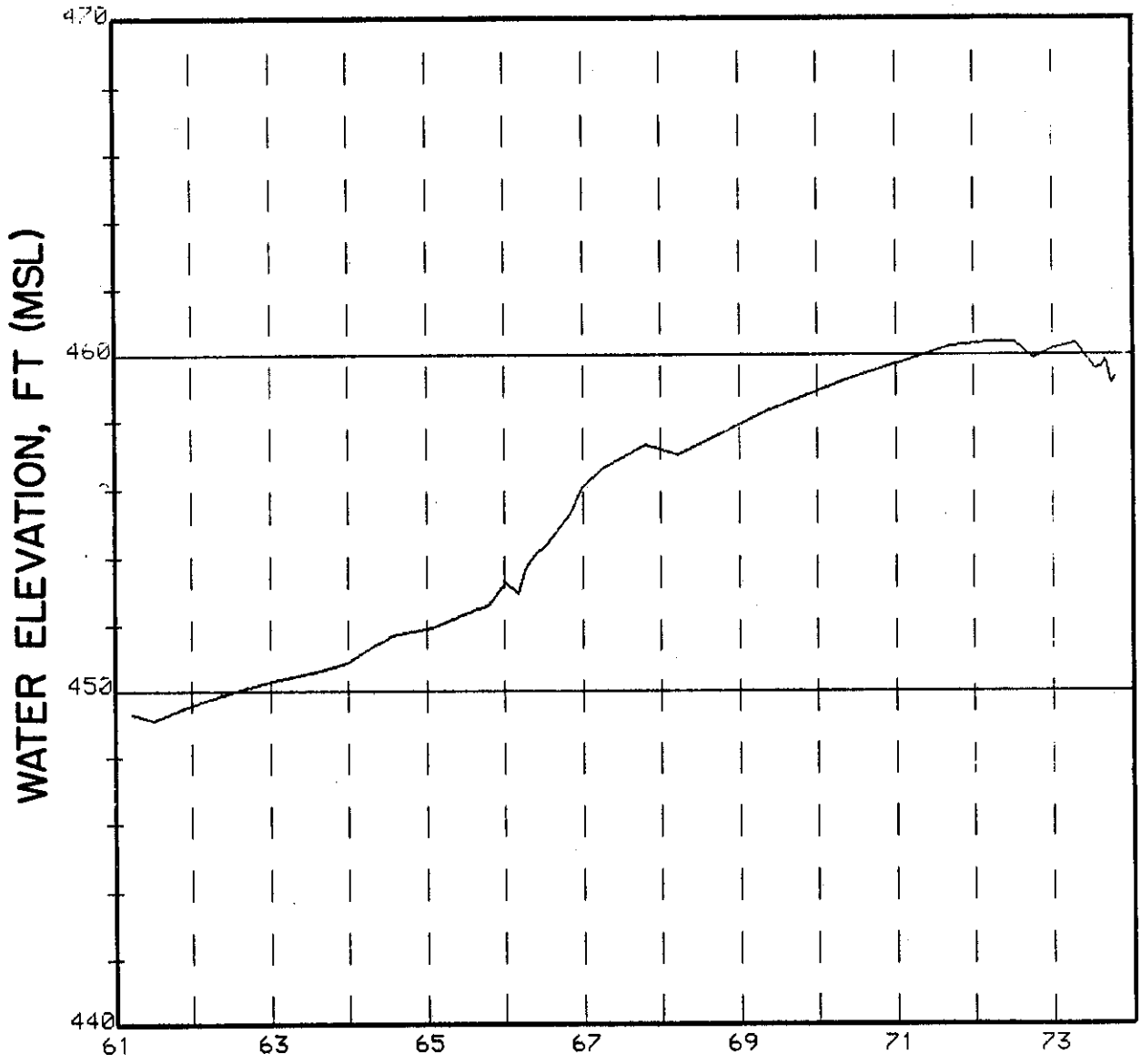

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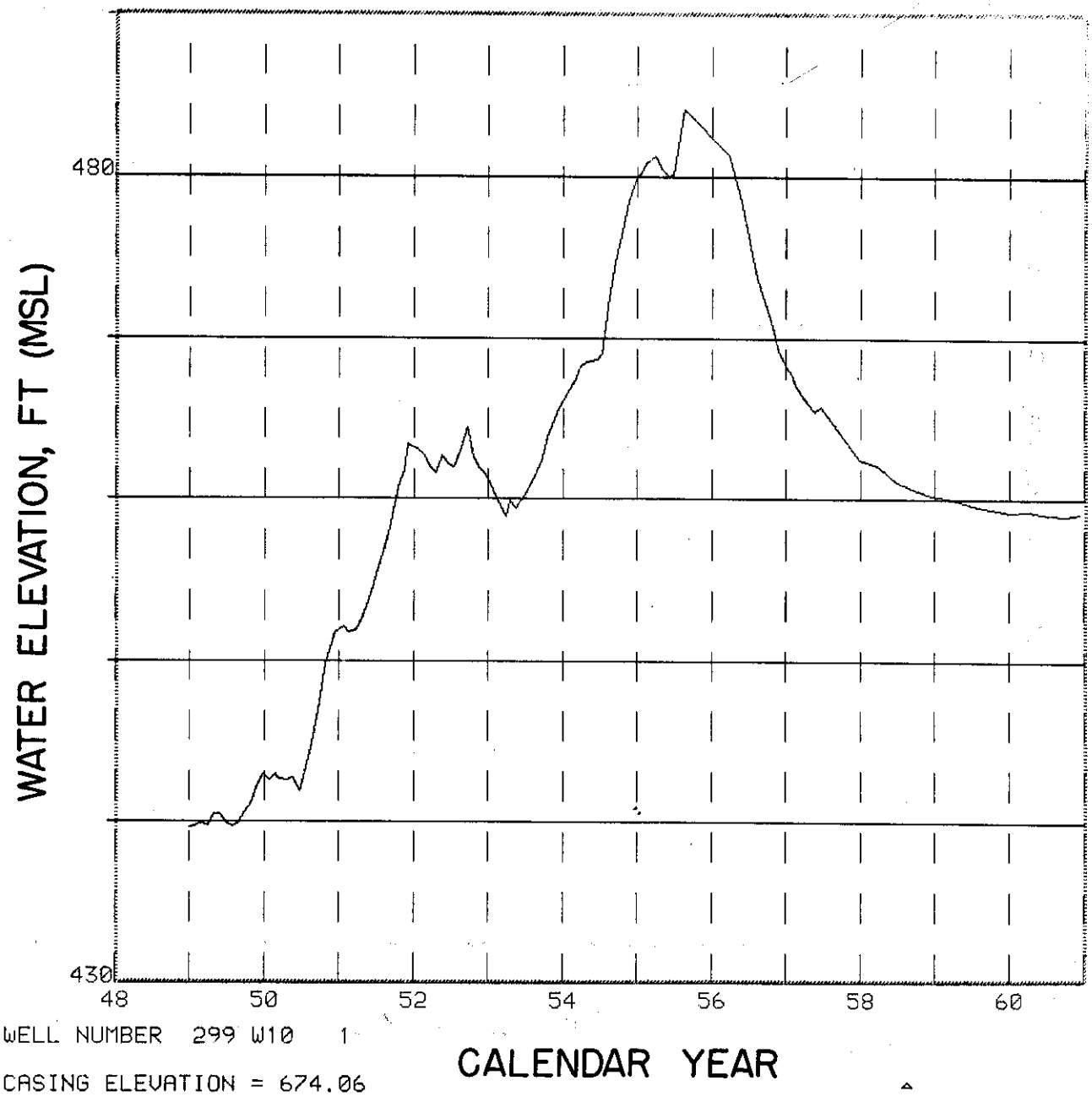

WELL NUMBER 299 W10 1

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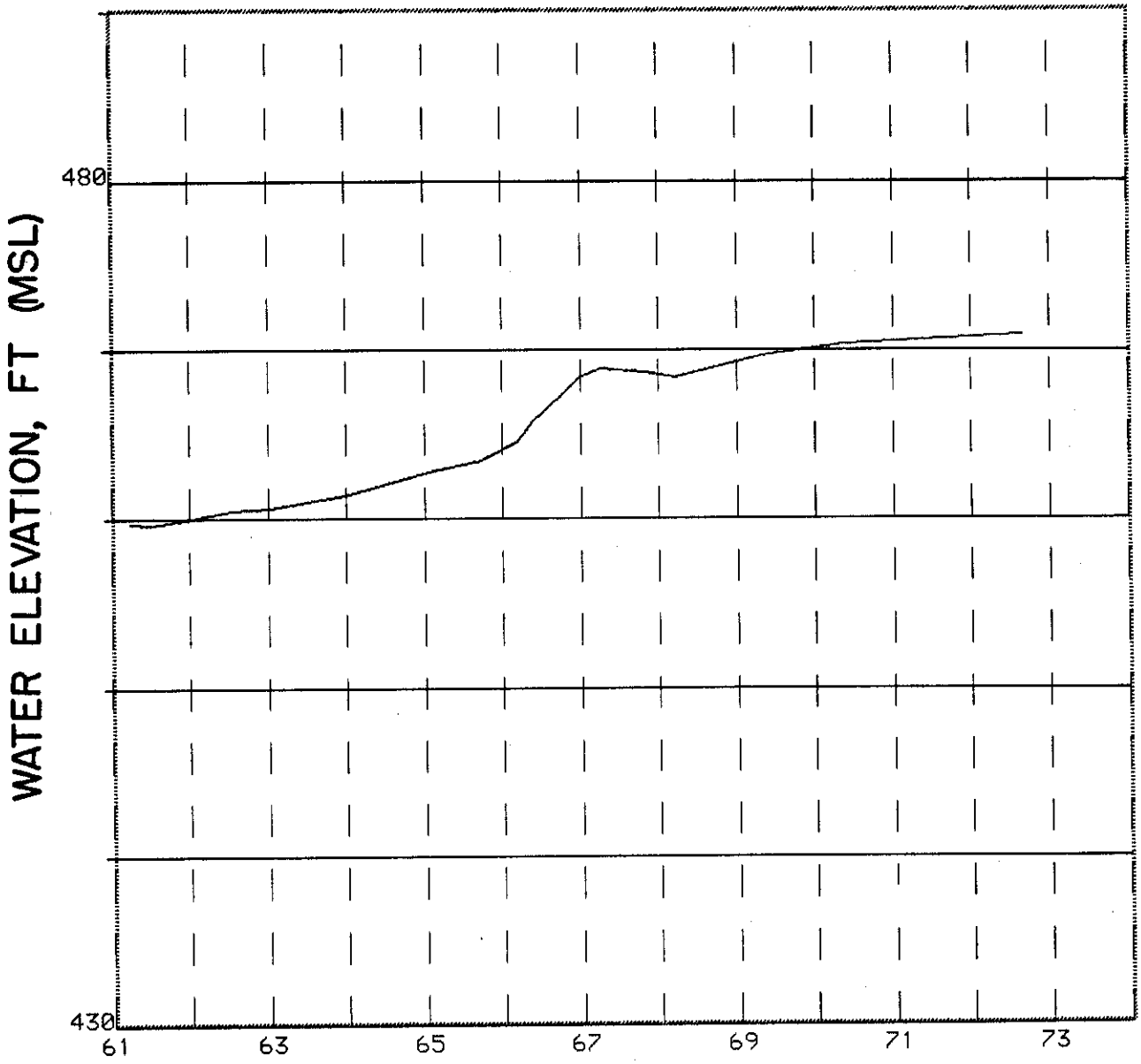

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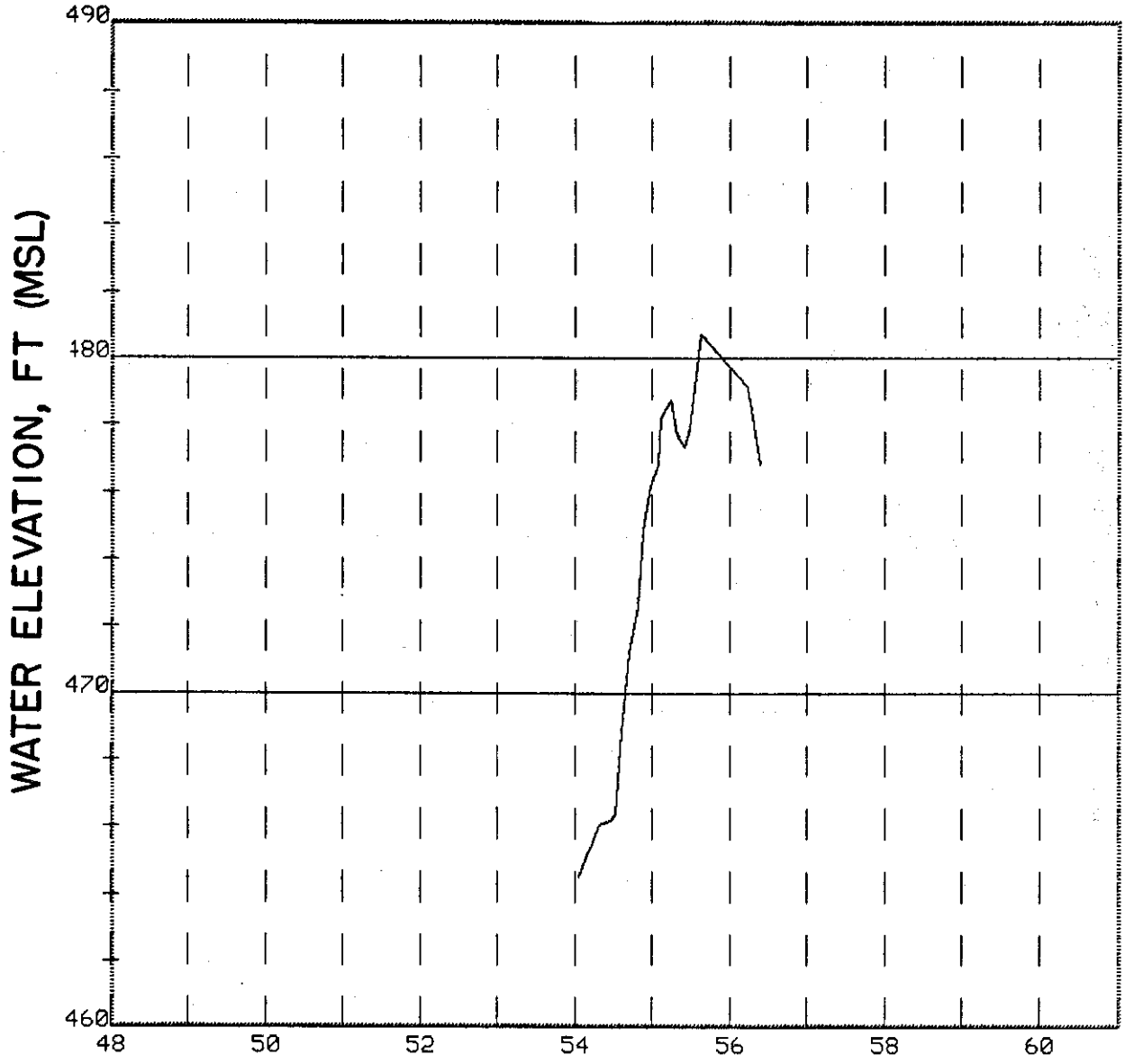

WELL NUMBER 299 W10 2

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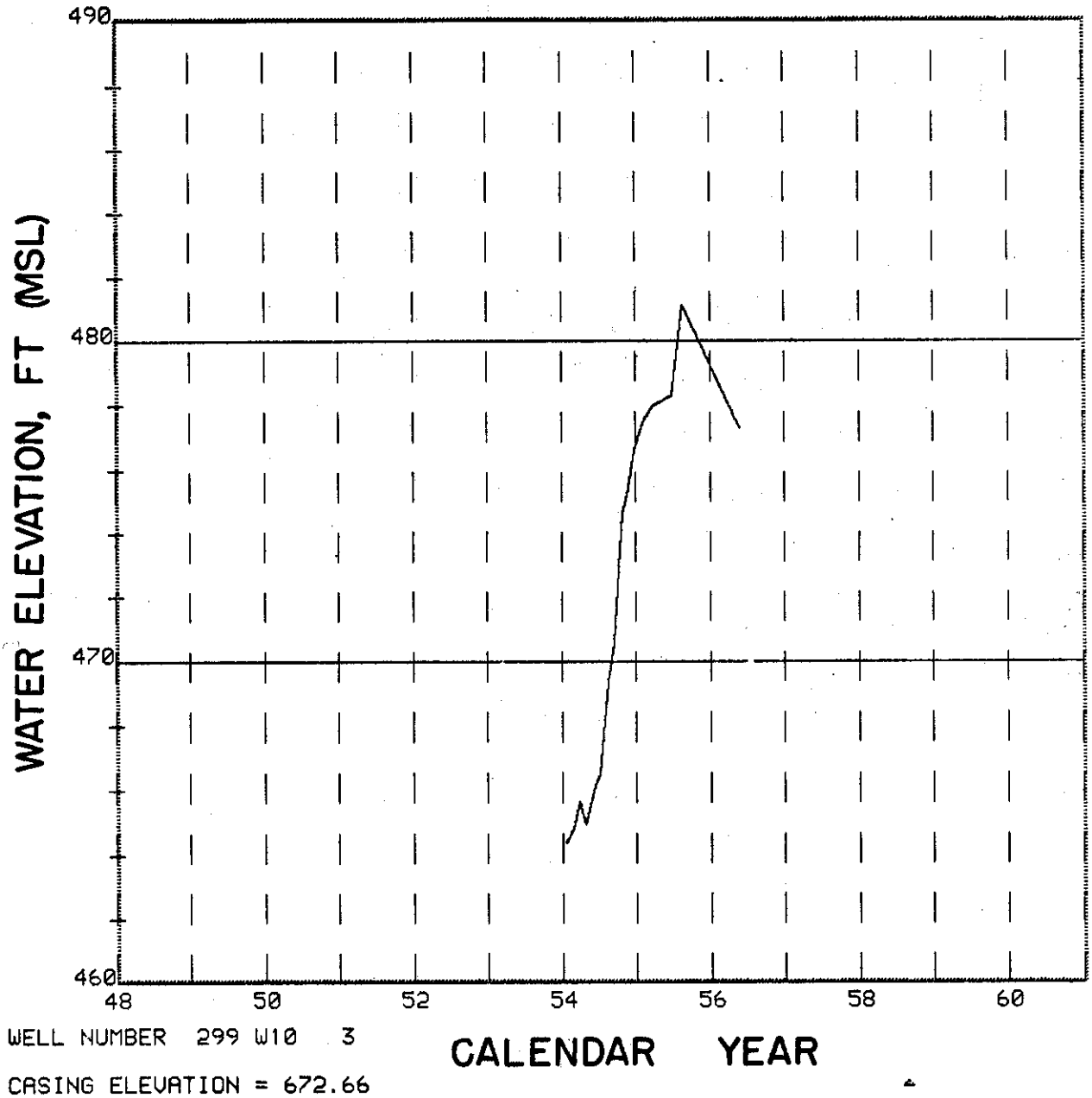
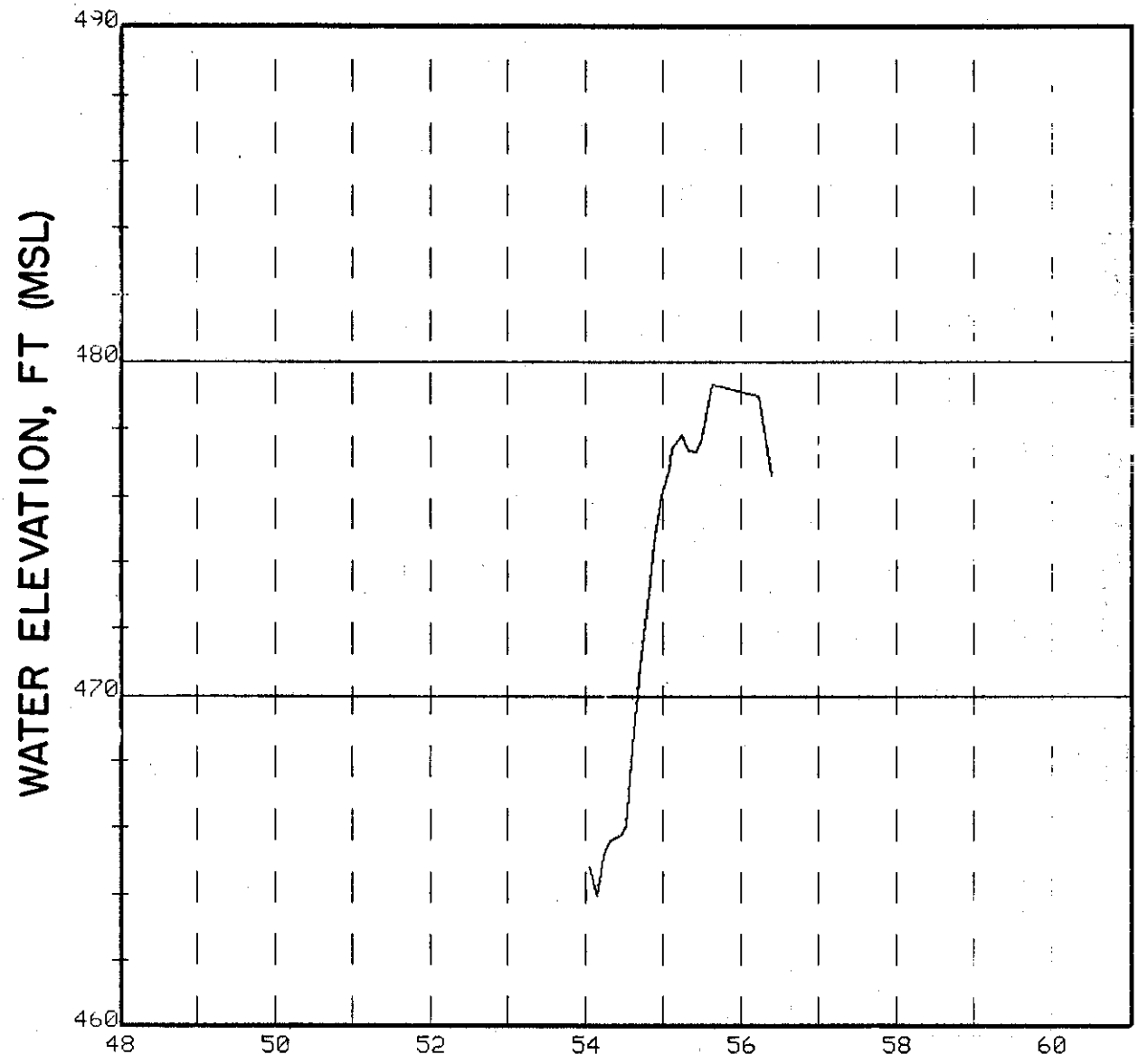


WELL NUMBER 299 W10 3

CASING ELEVATION = 672.66



WELL NUMBER 299 W10 4

CASING ELEVATION = 670.95

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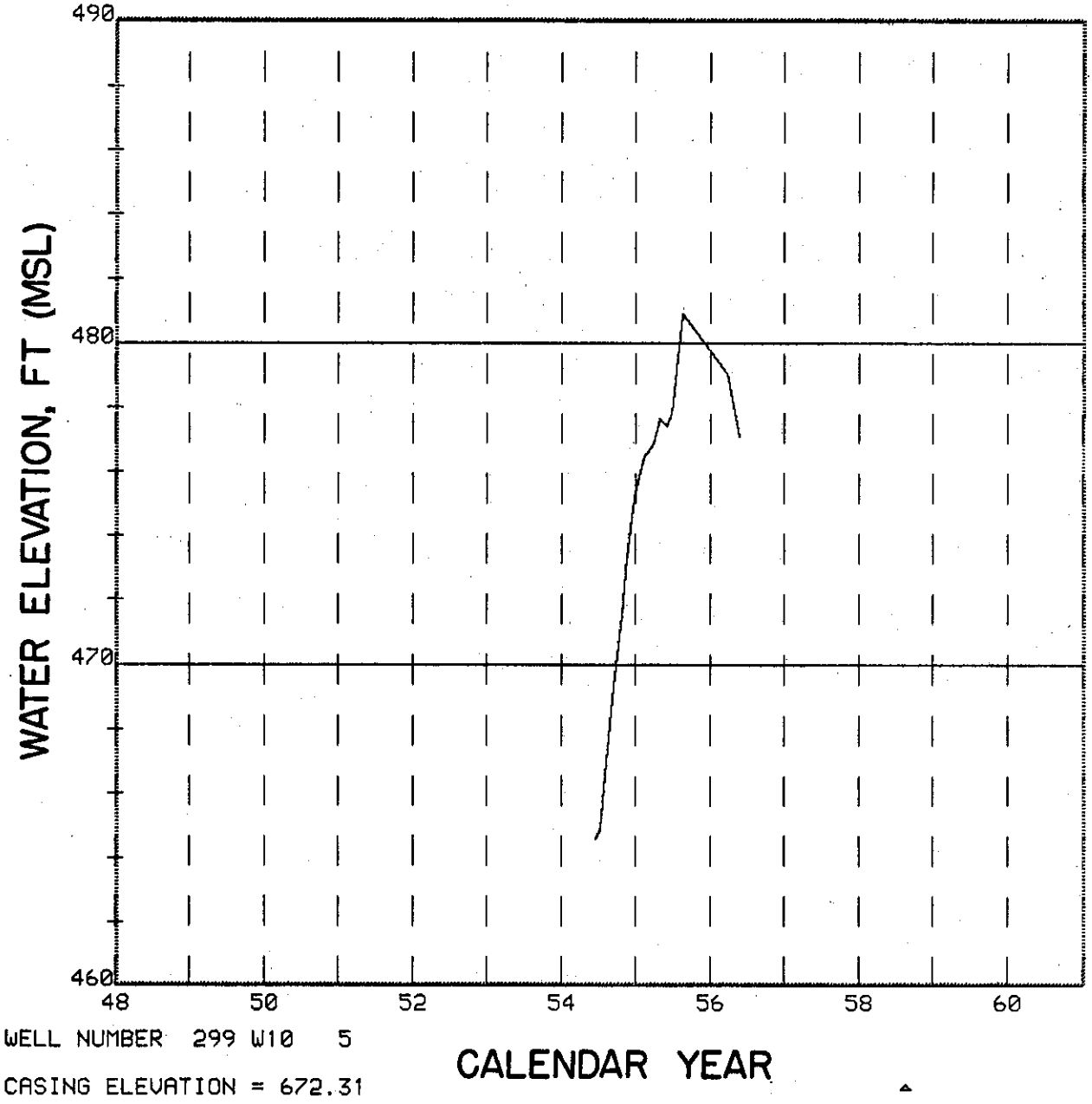

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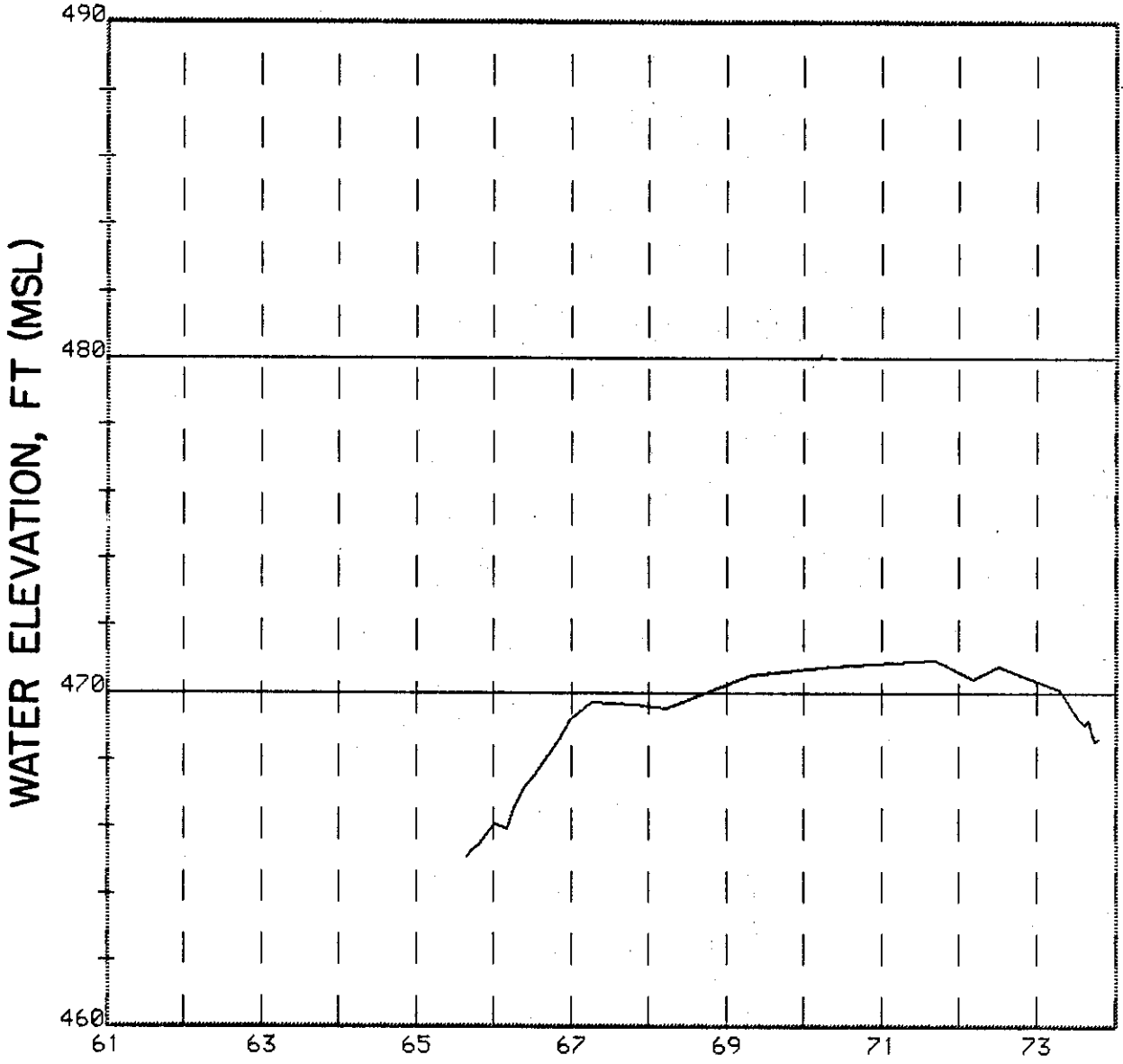
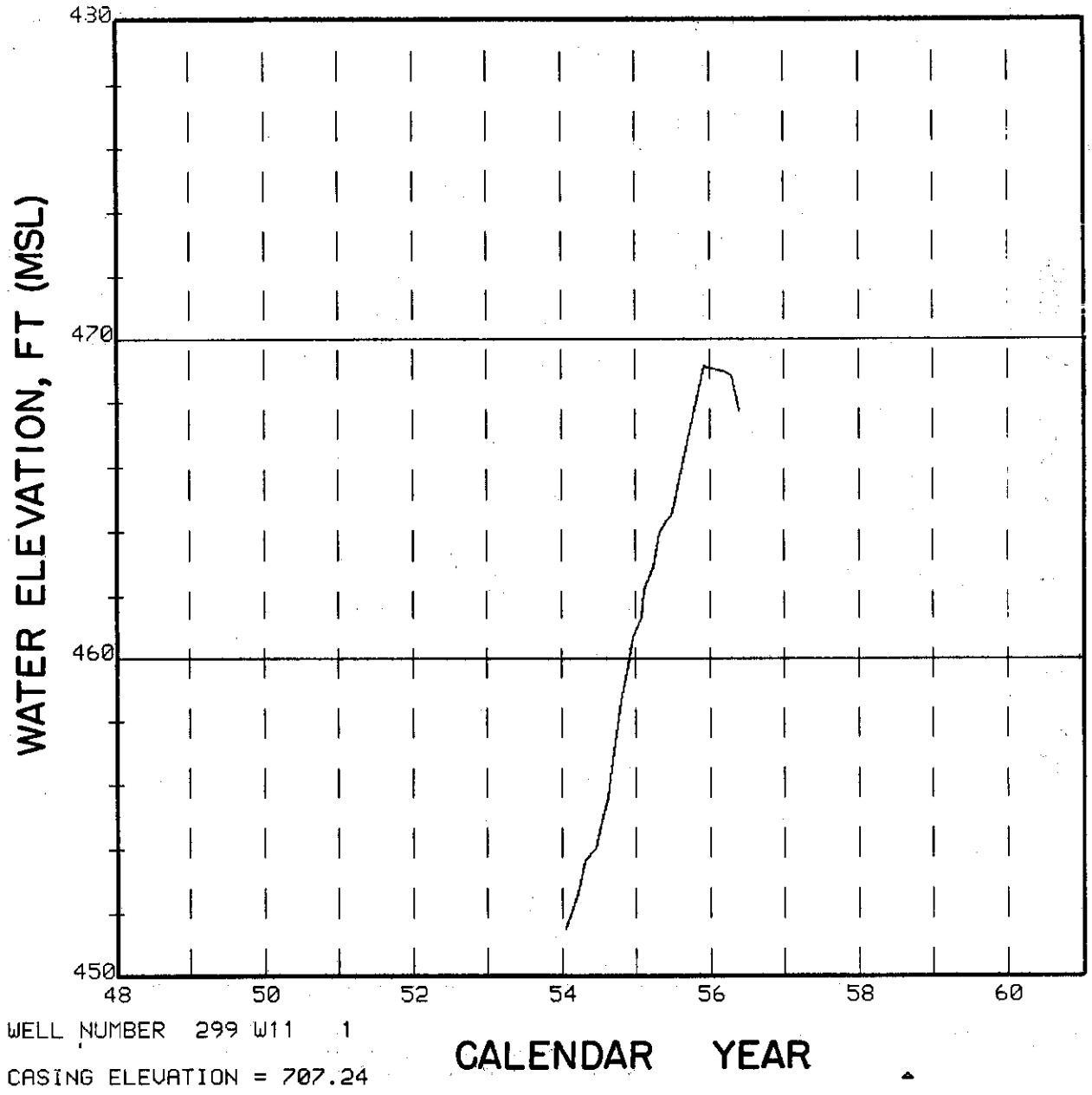


WELL NUMBER 299 W10 5

CASING ELEVATION = 672.31



WELL NUMBER 299 W11 1

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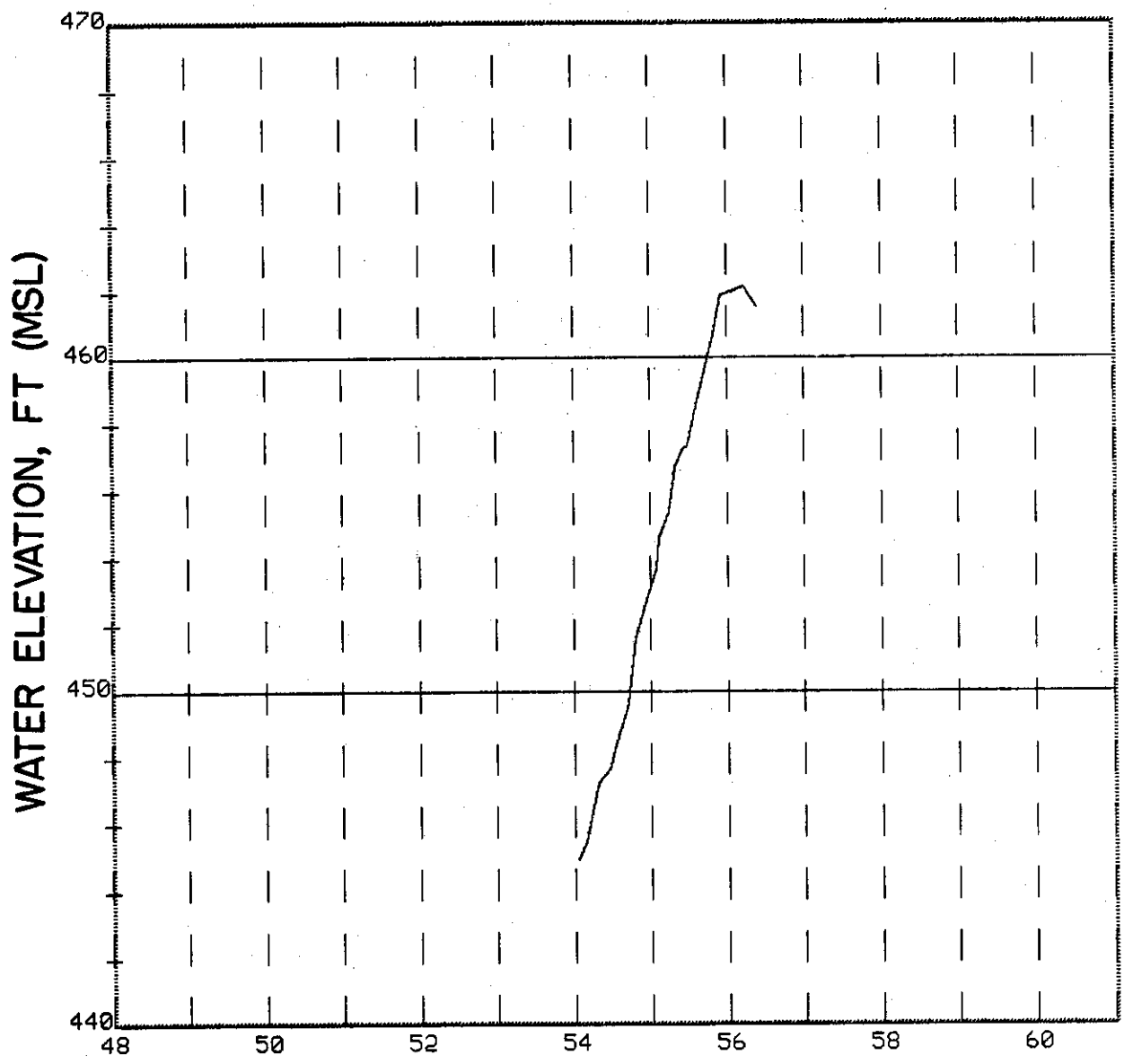

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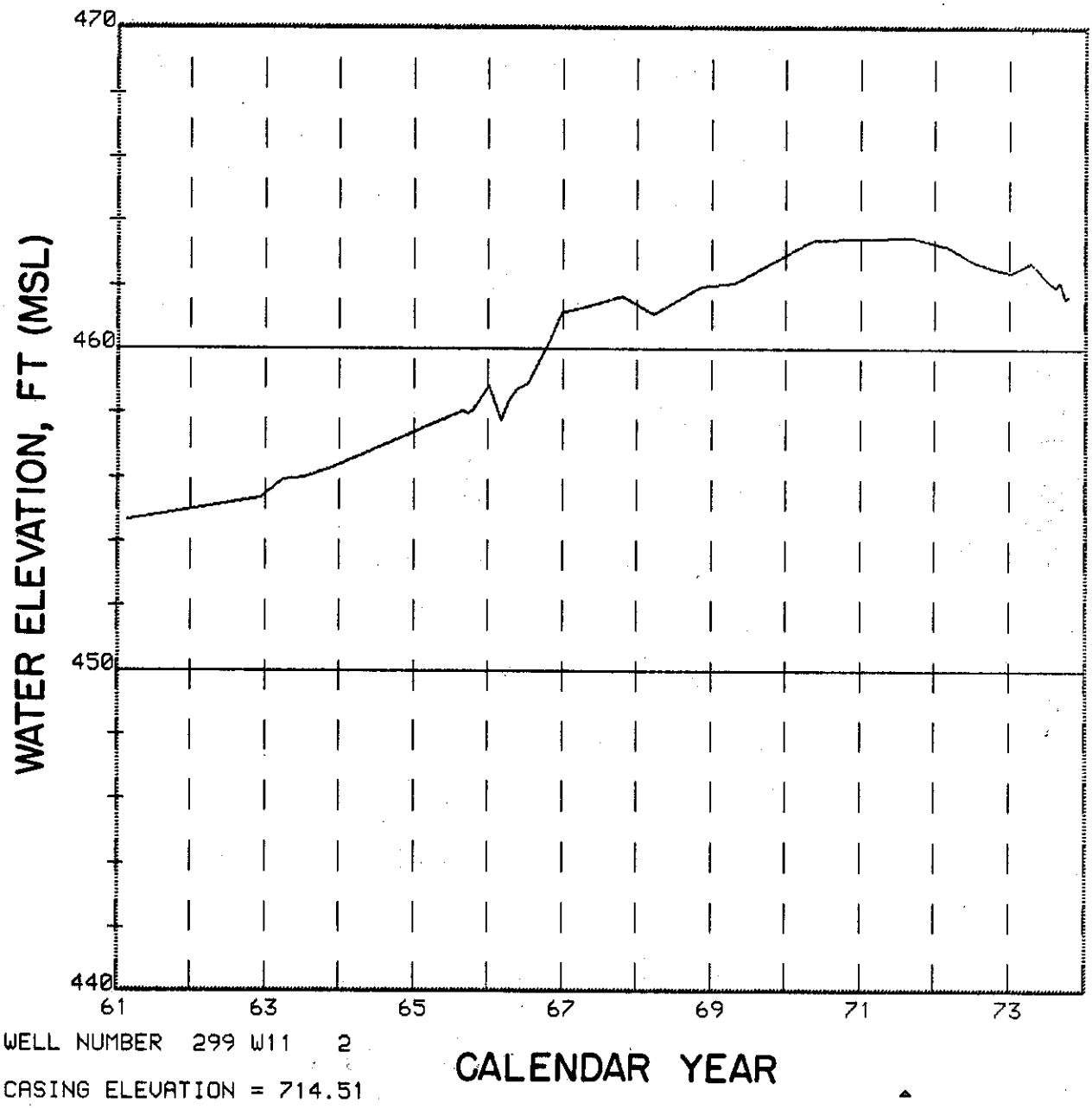

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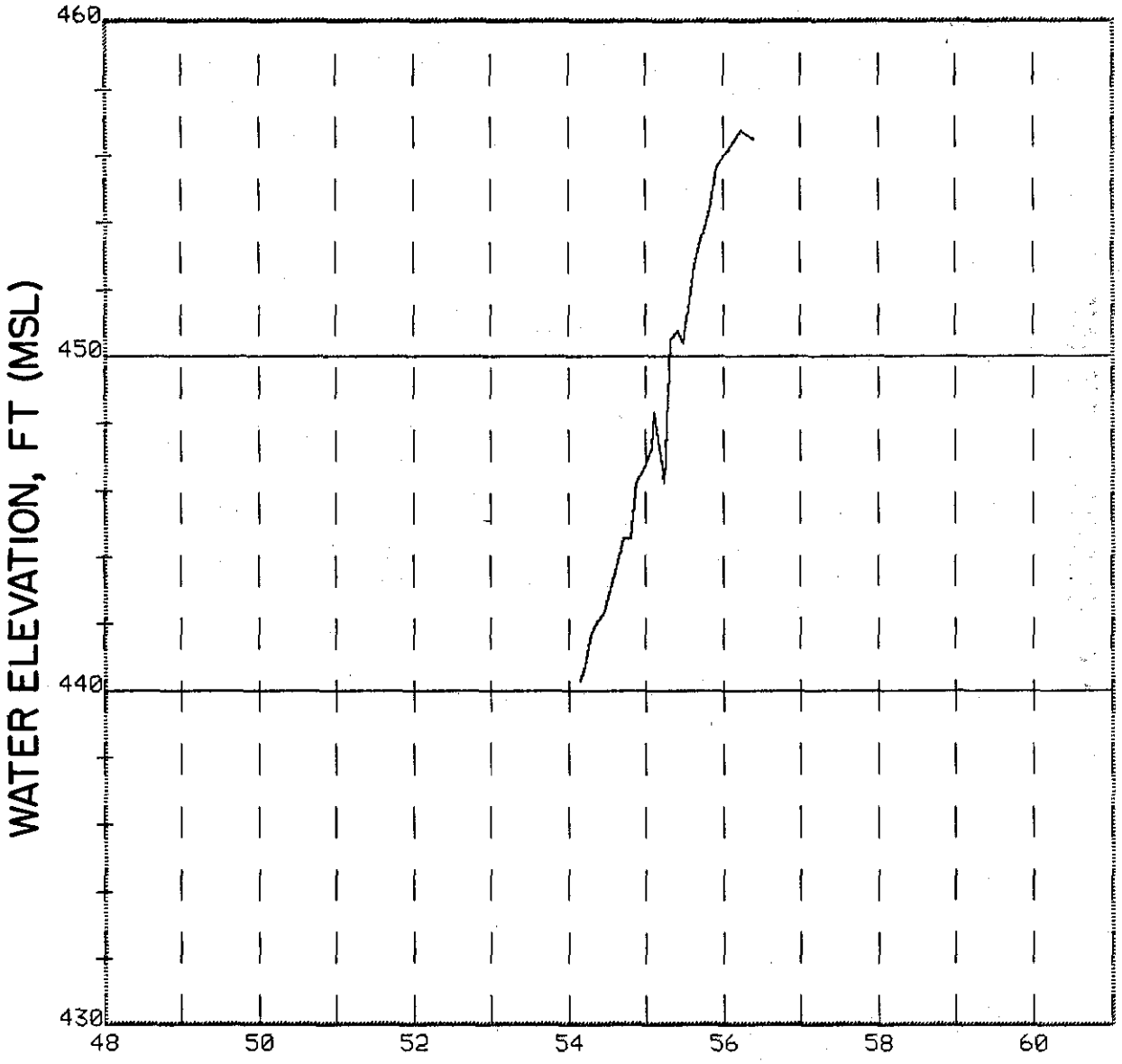

WELL NUMBER 299 W11 3

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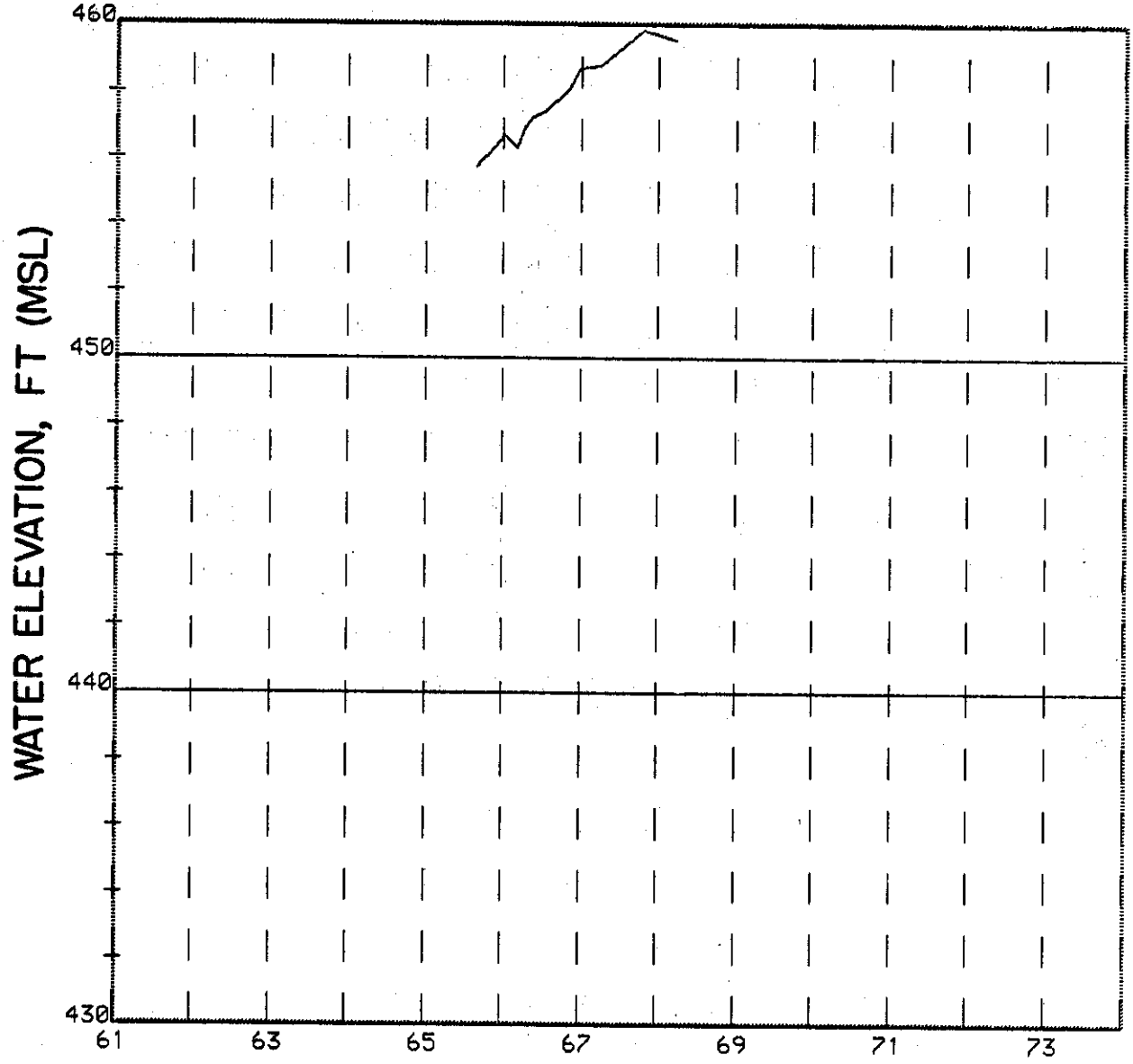

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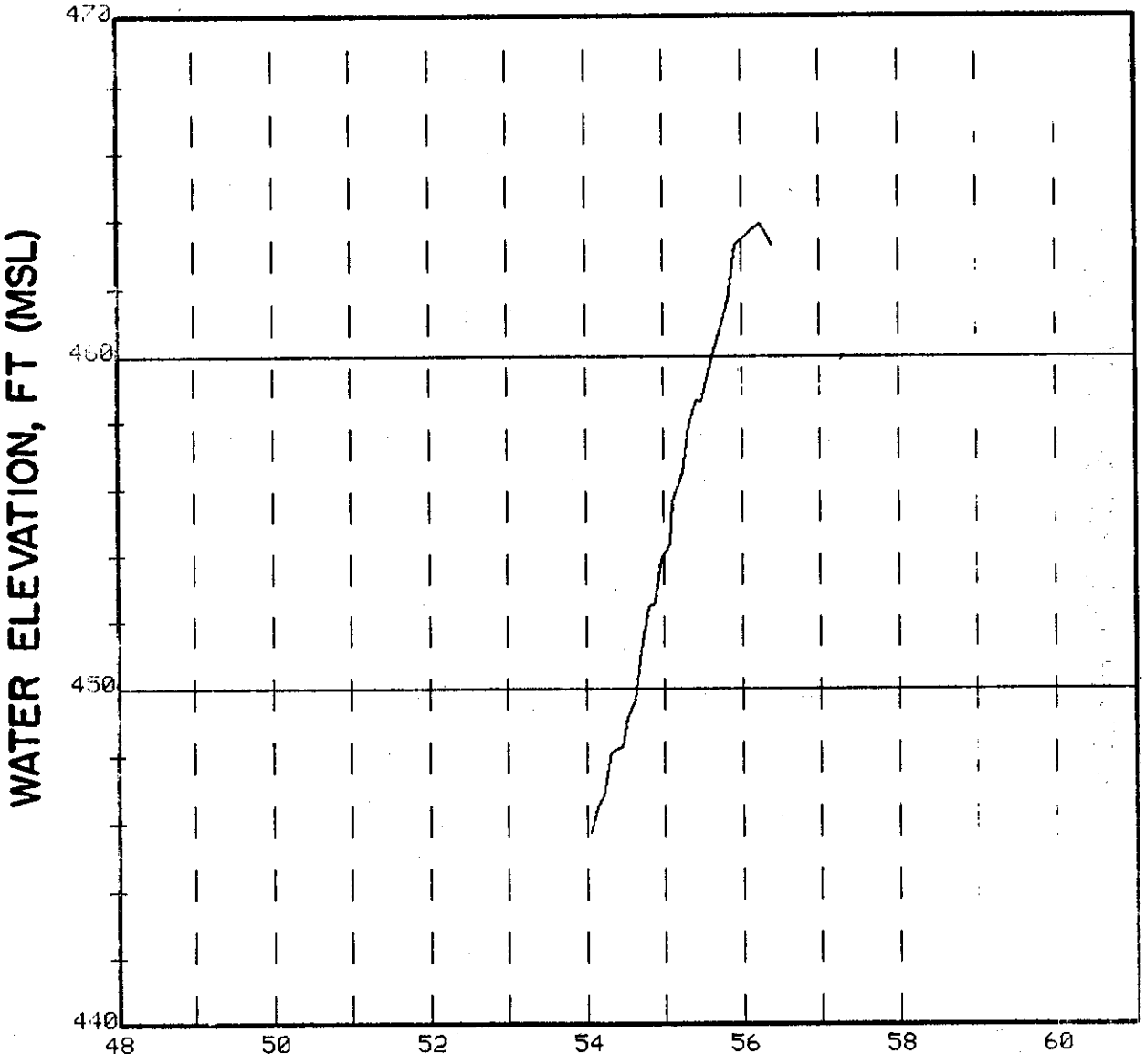

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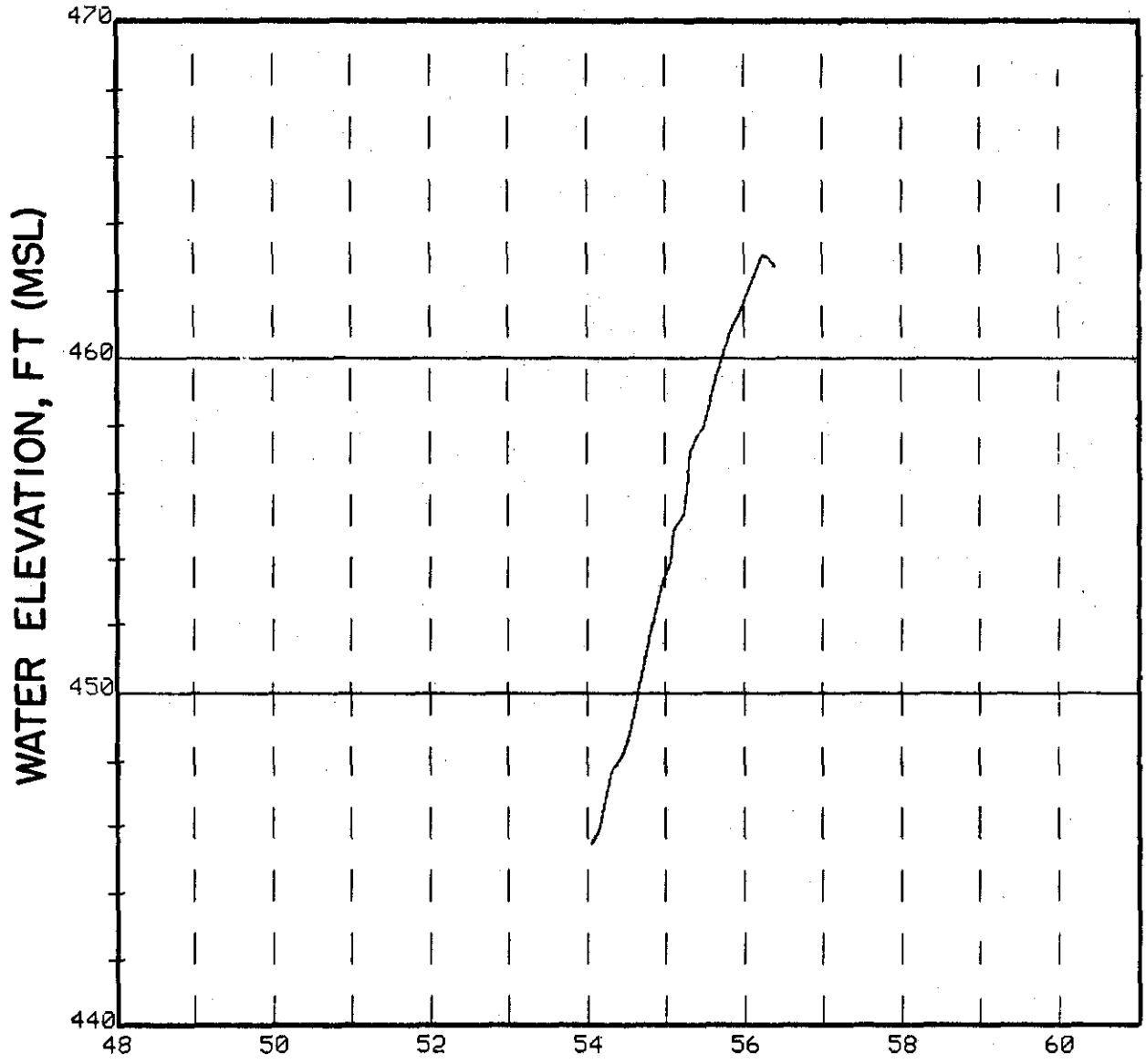

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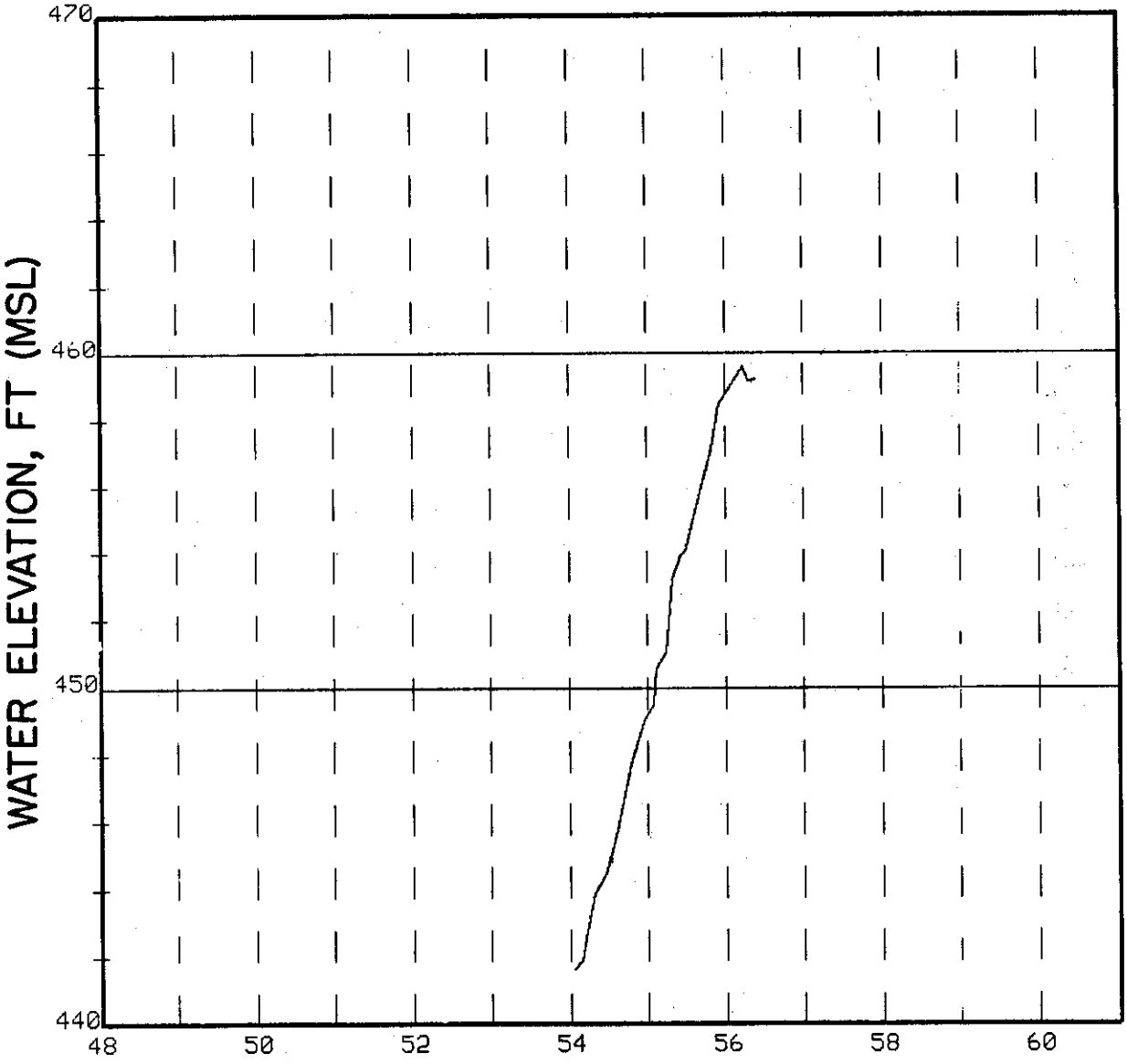

WELL NUMBER 299 W11 6

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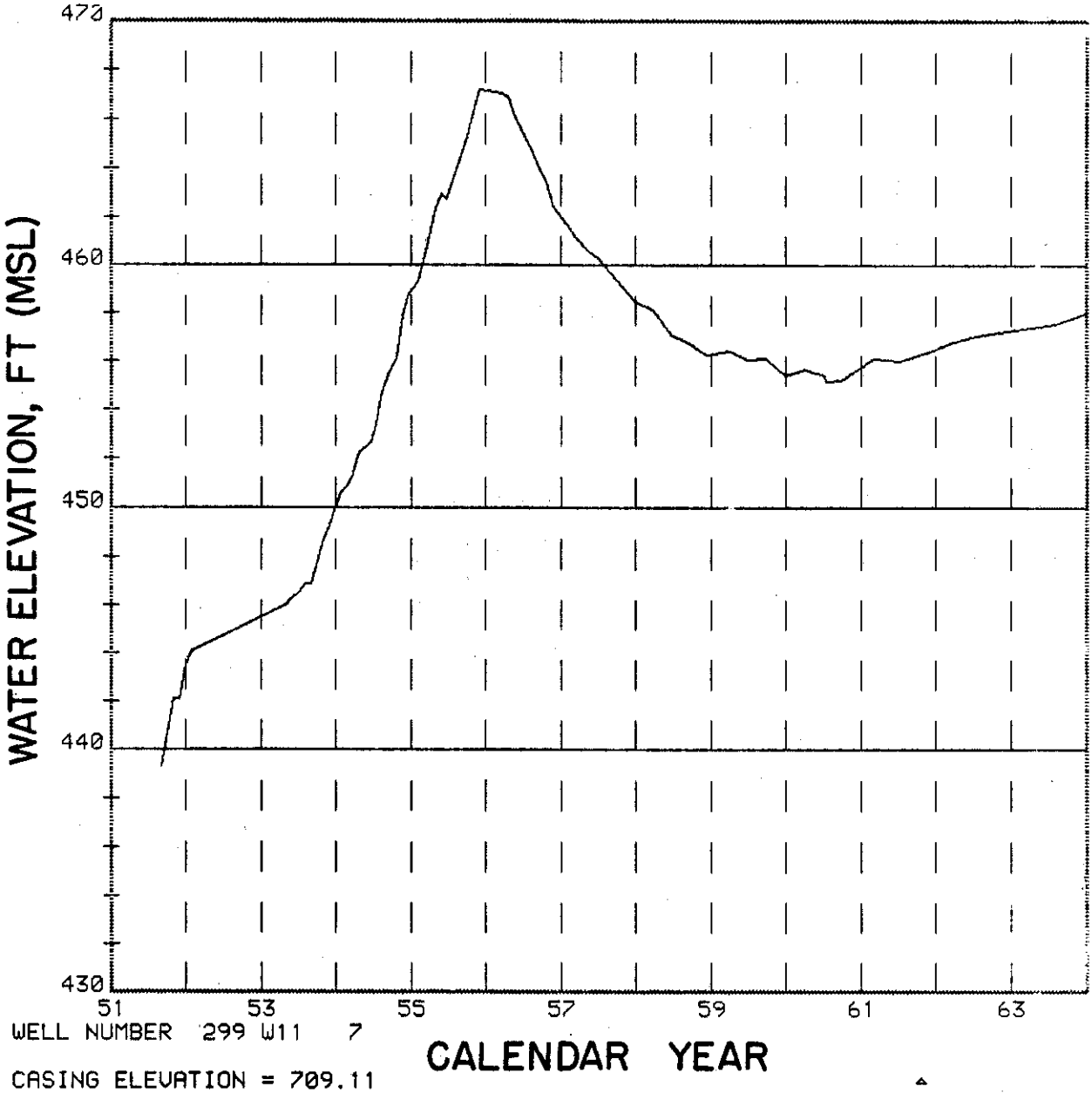
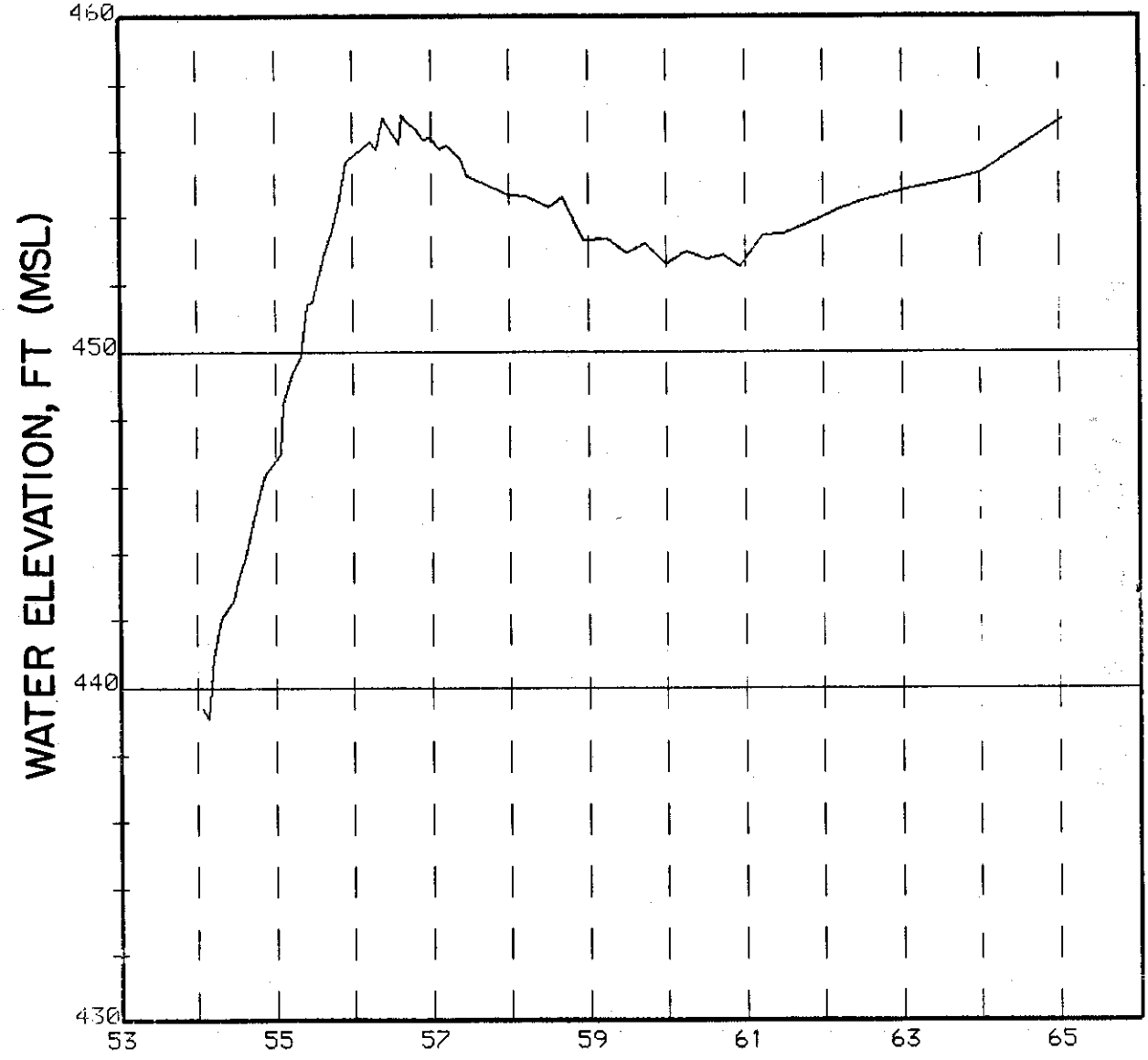

470
460
450
440
430
WATER ELEVATION, FT (MSL)
51
53
55
57
59
61
63
CALENDAR YEAR
WELL NUMBER 299 W11 7
CASING ELEVATION = 709.11



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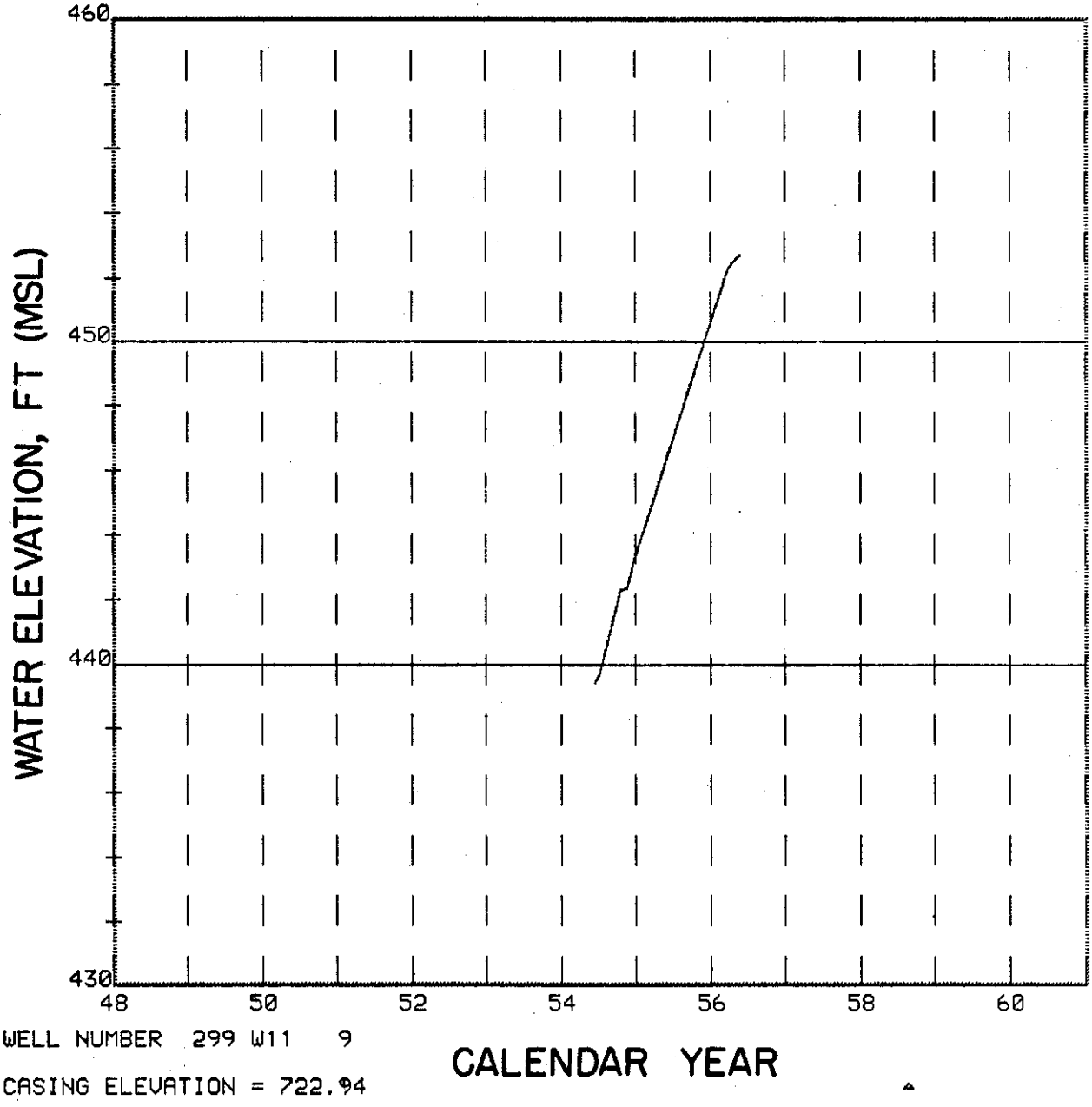

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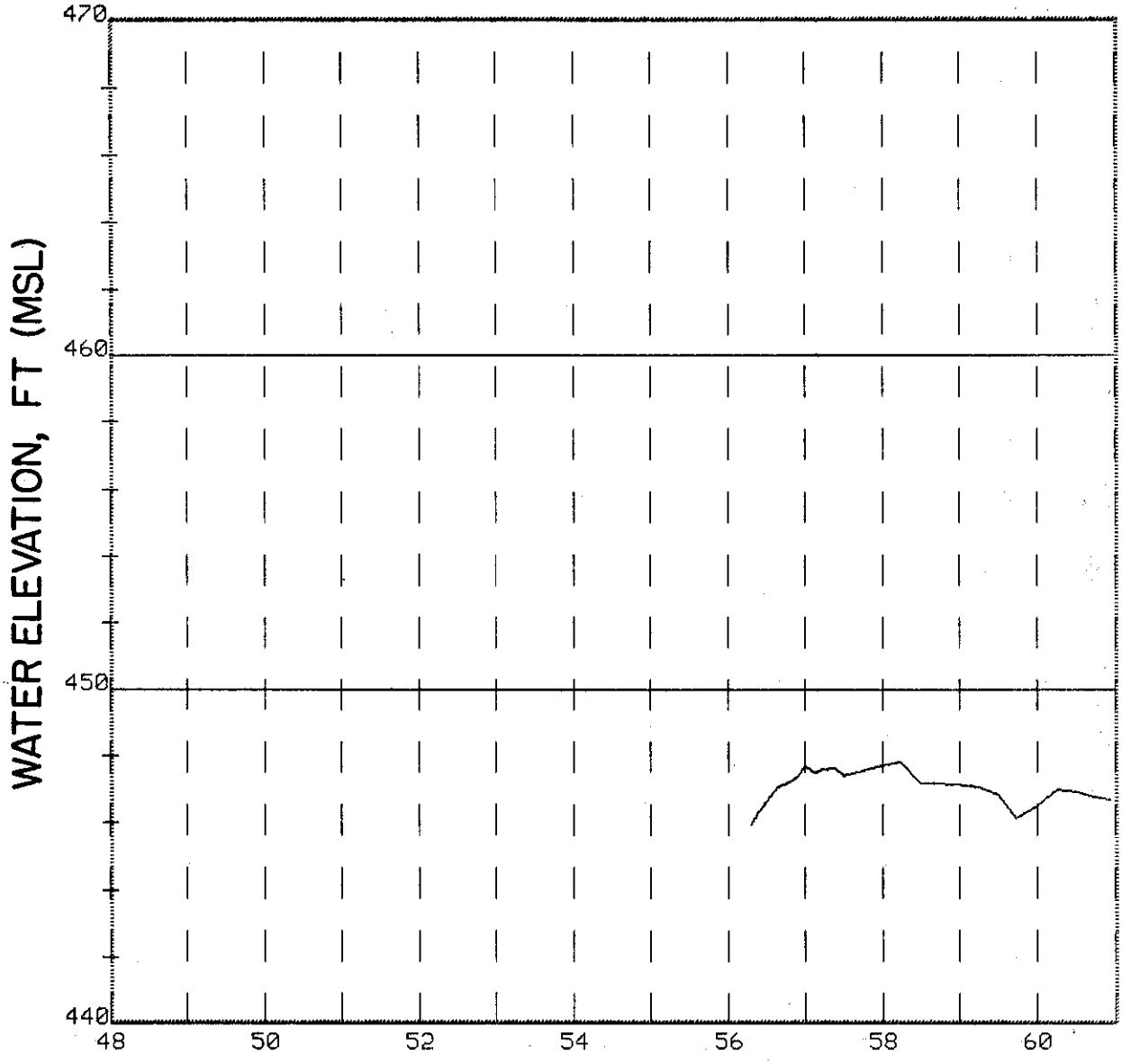

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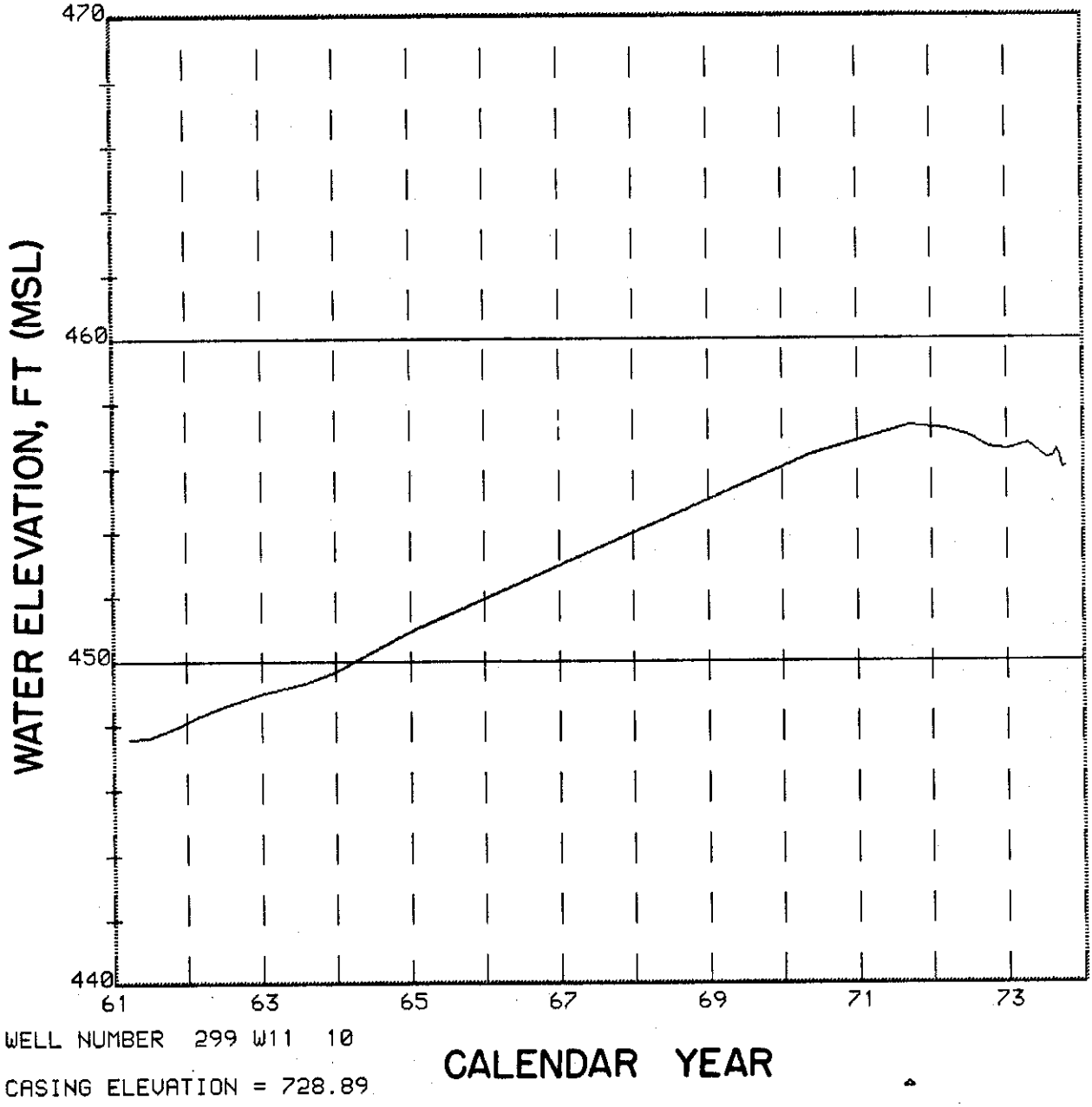

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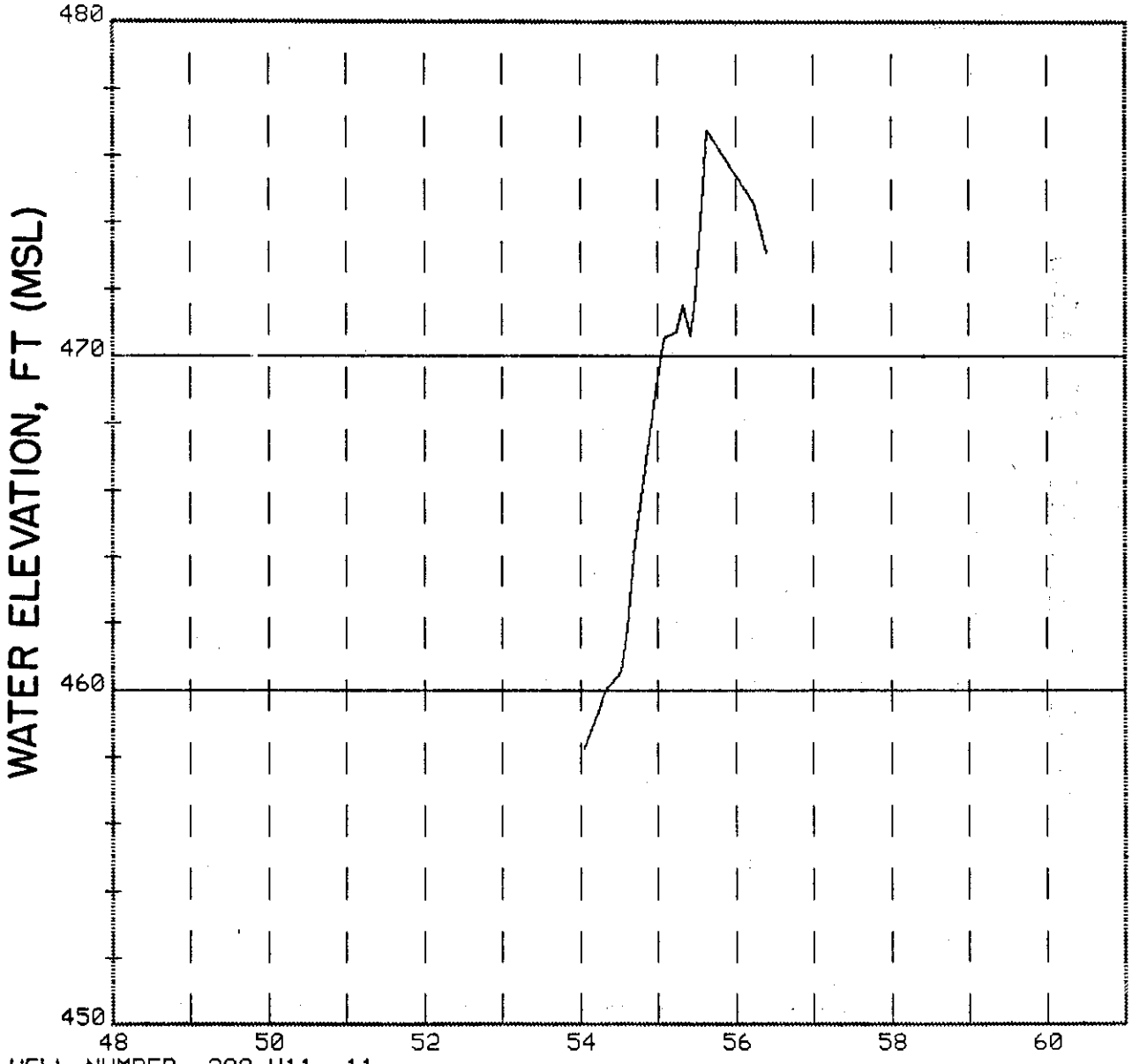

WELL NUMBER 299 W11 11

CASING ELEVATION = 670.77

Pages 191 – 194
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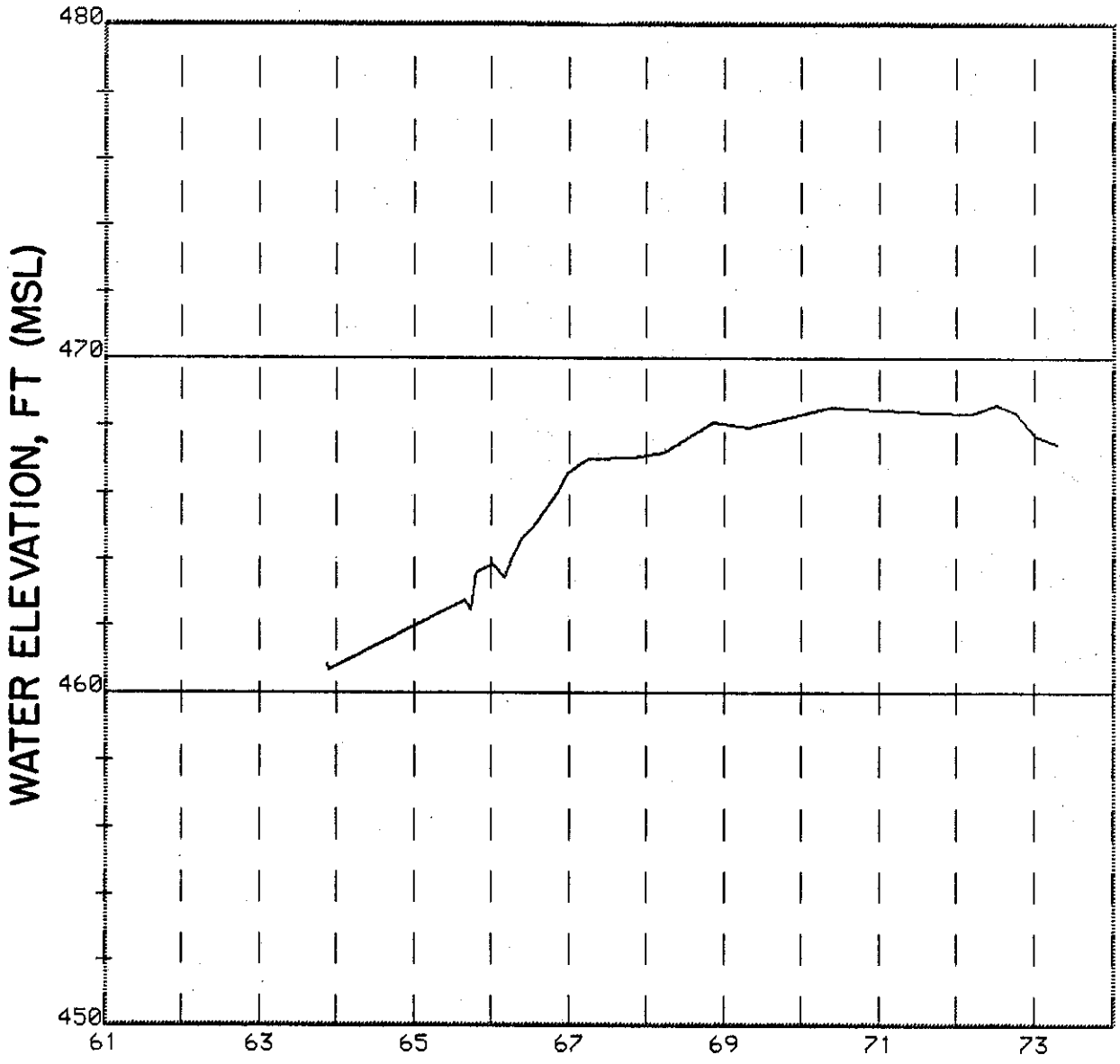

WELL NUMBER 299 W11 13

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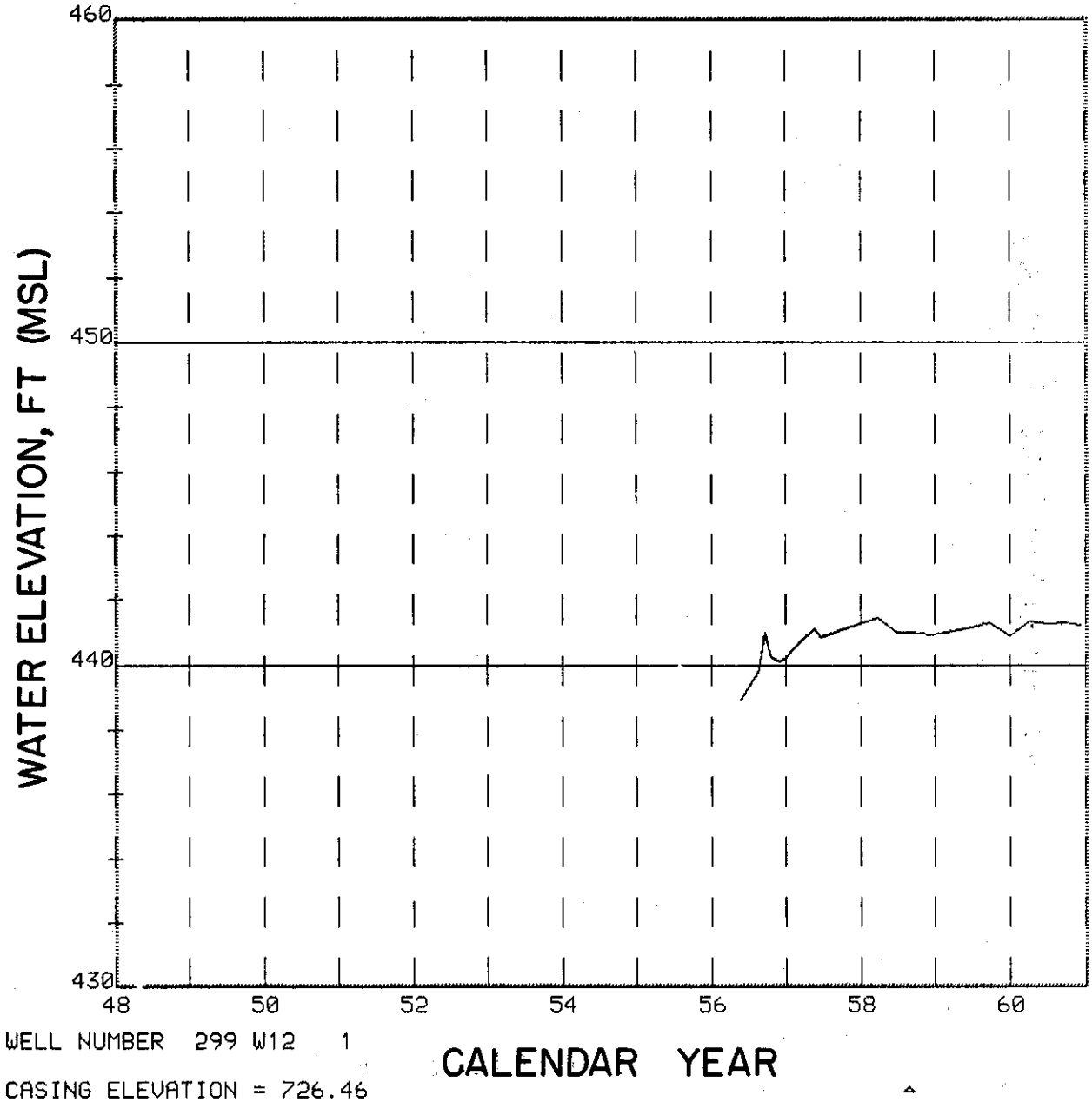

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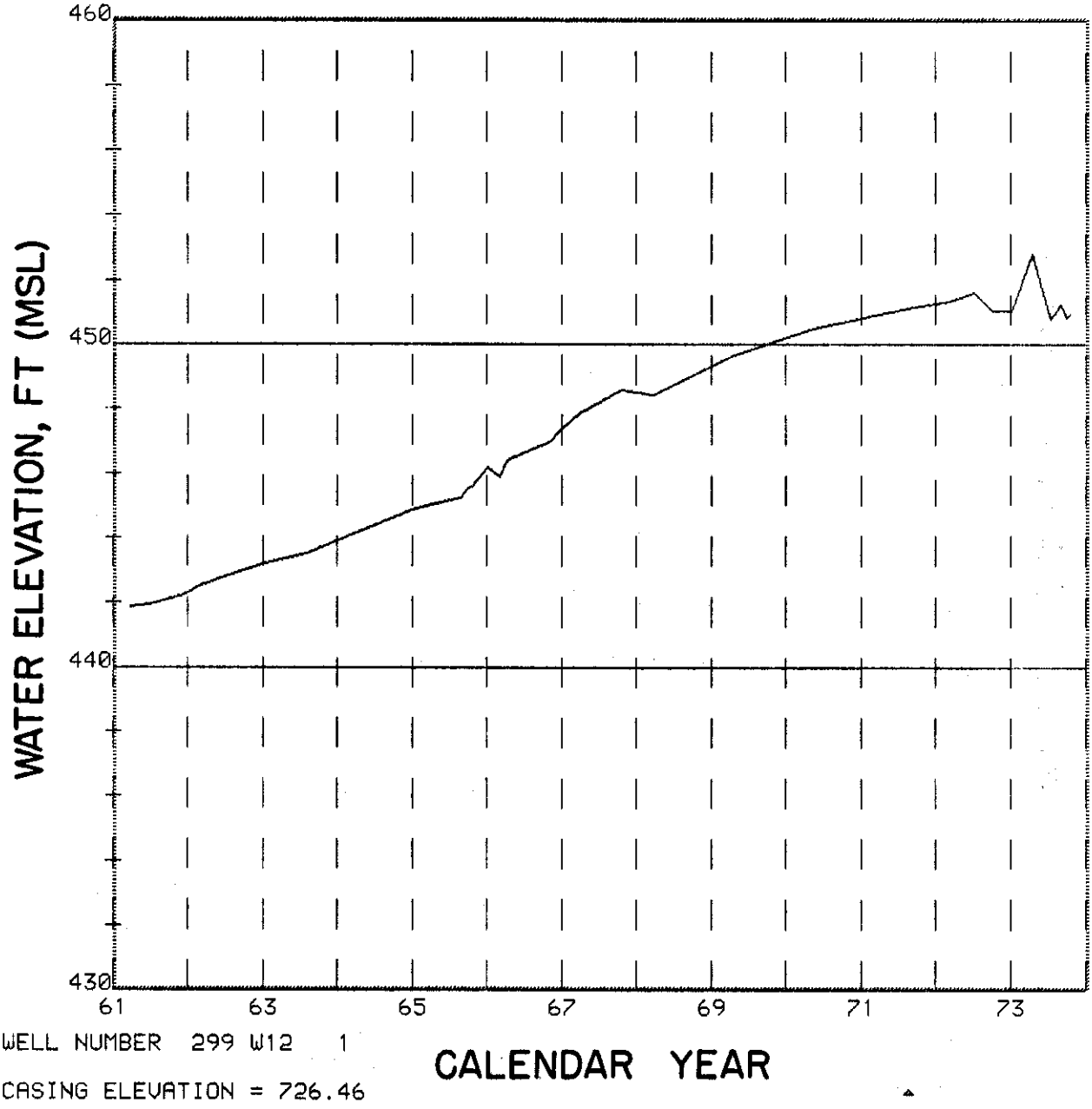

WELL NUMBER 299 W12 1

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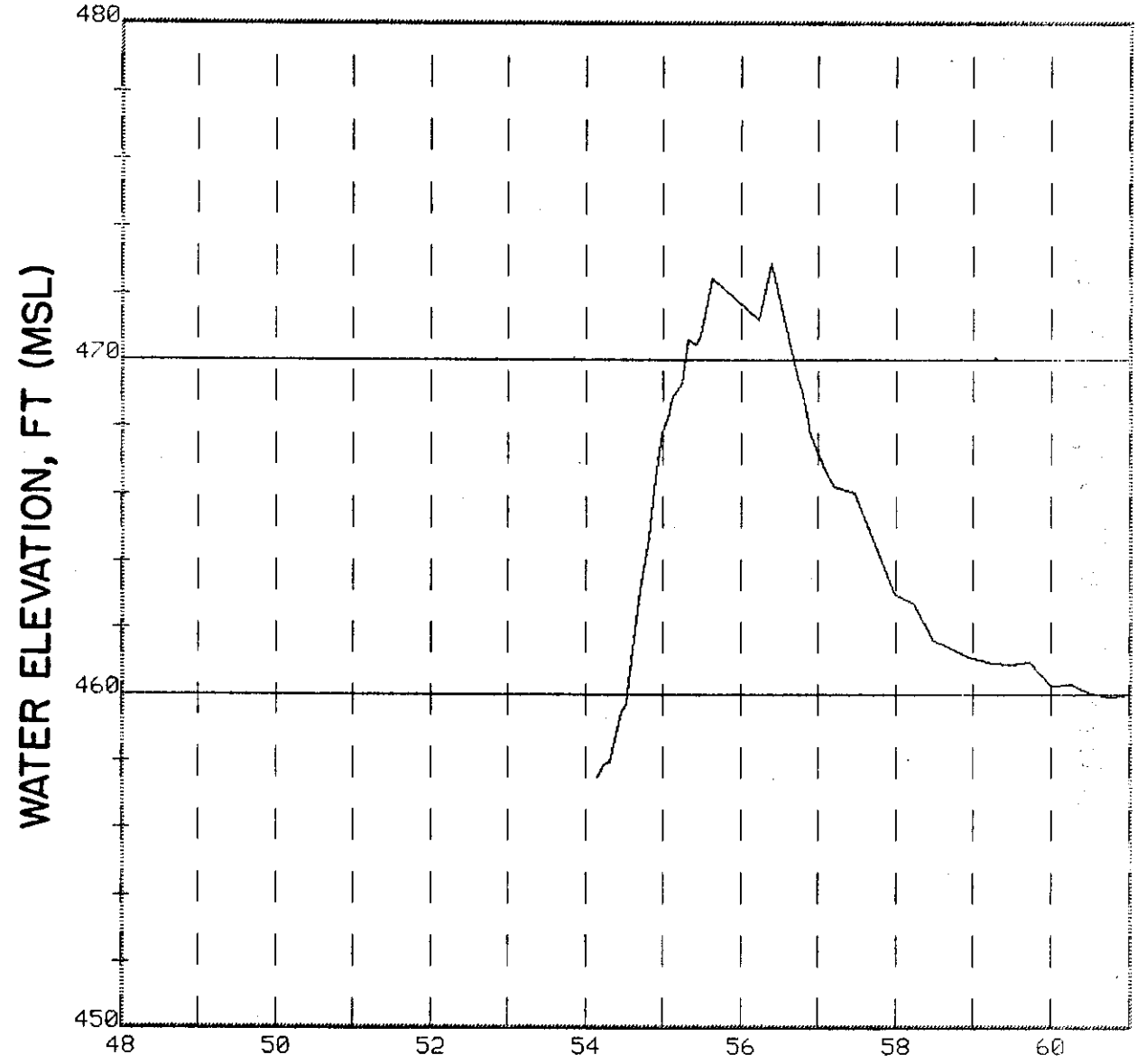

WELL NUMBER 299 W14 1

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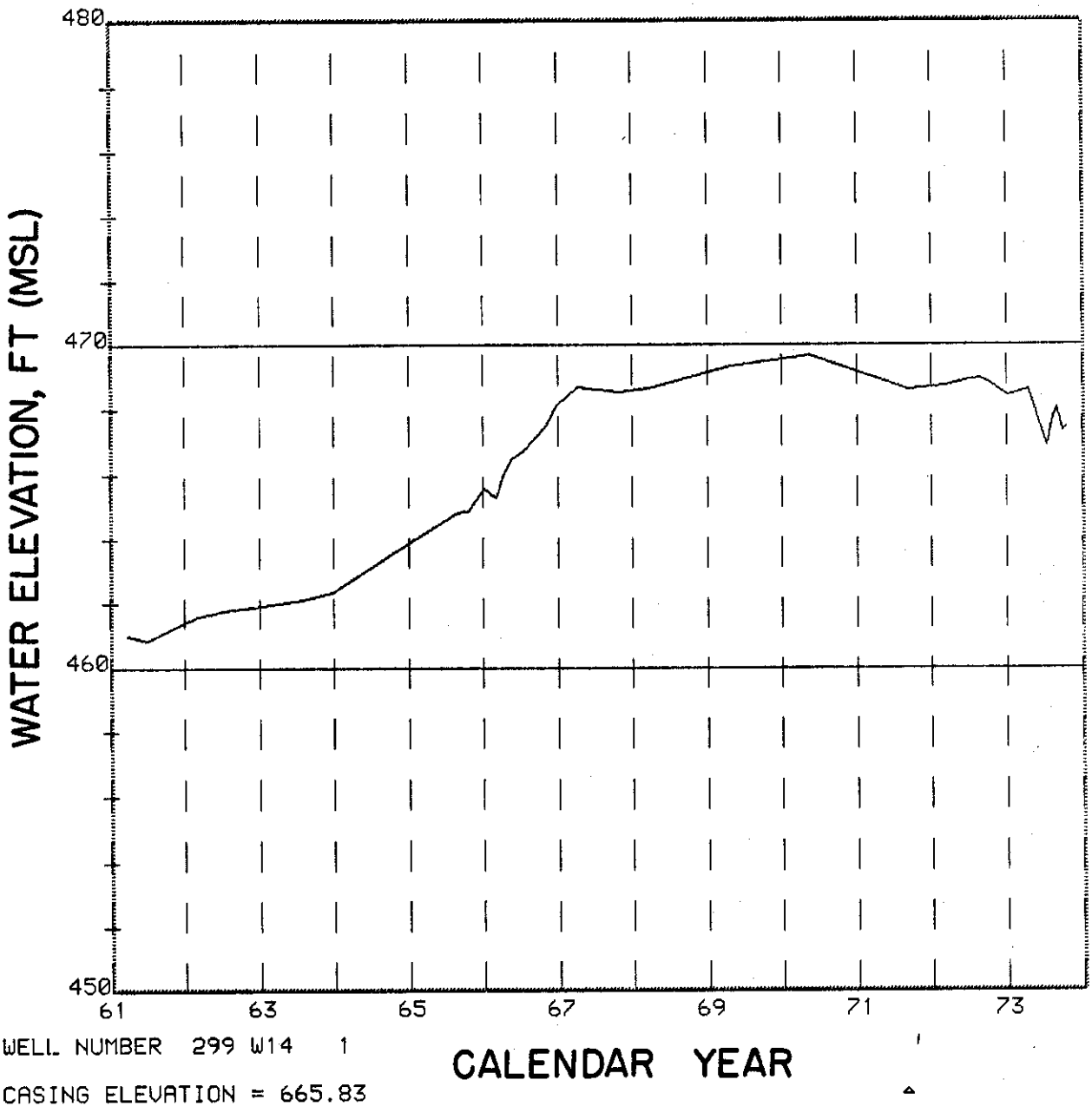

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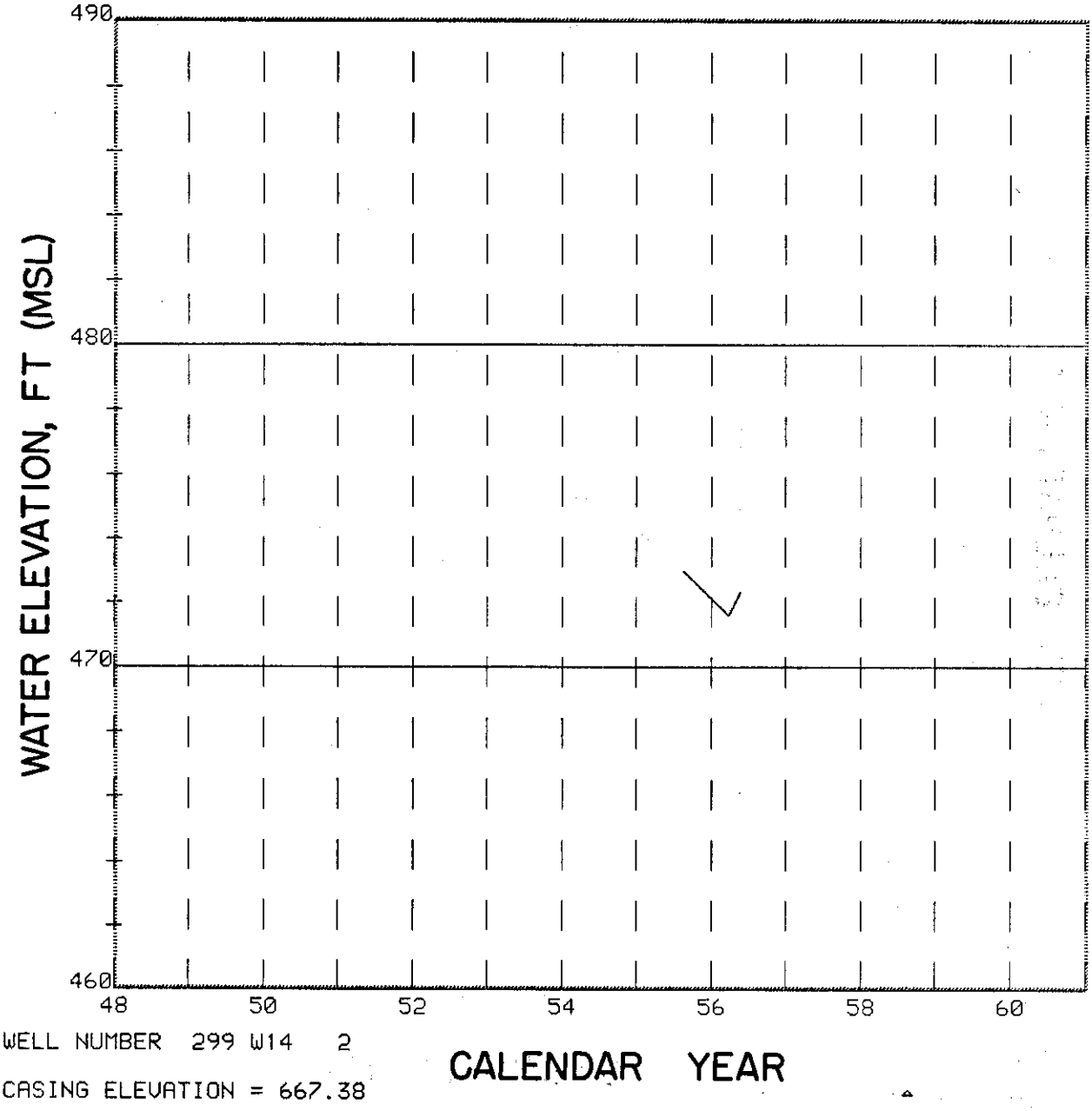

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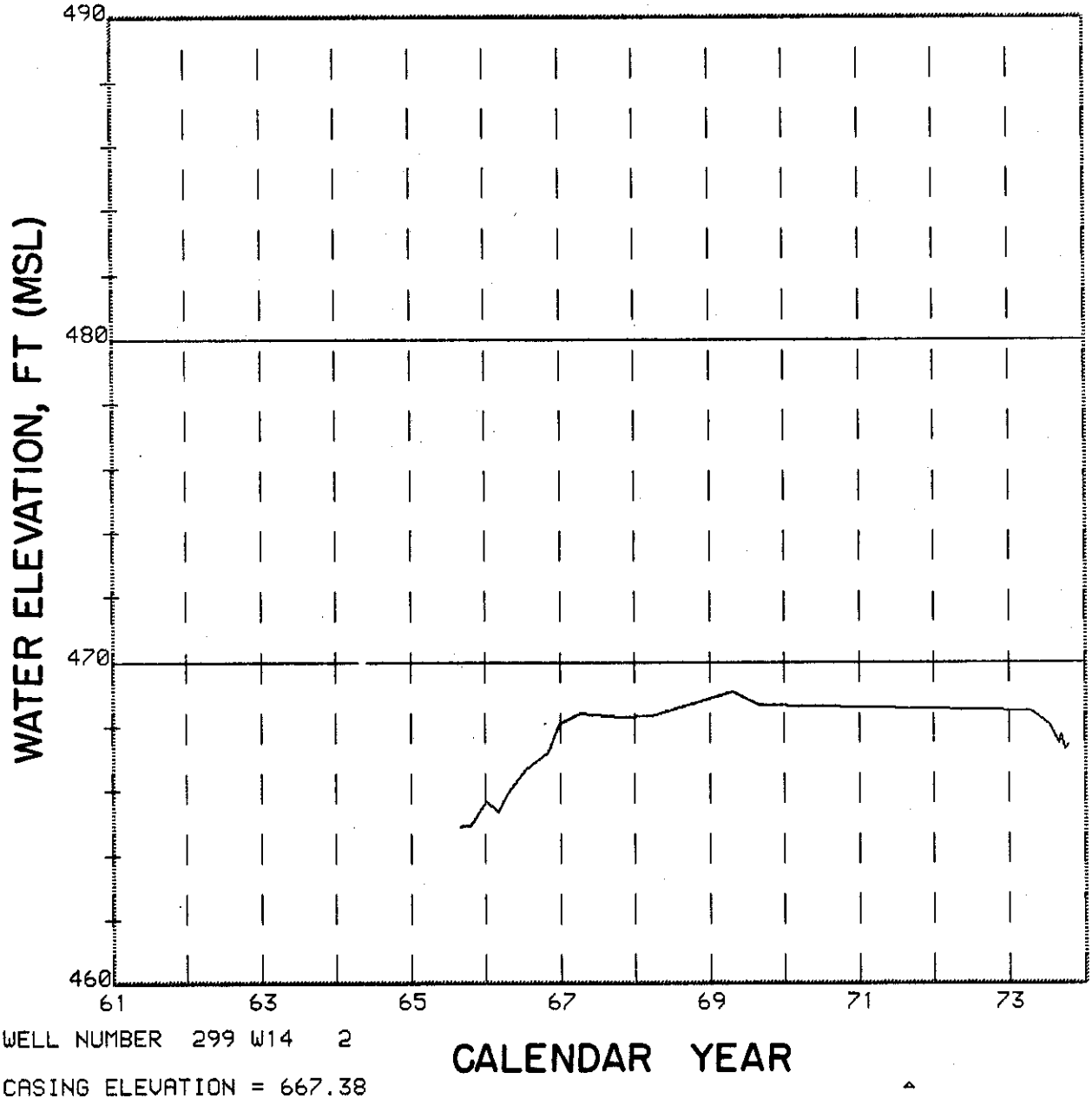

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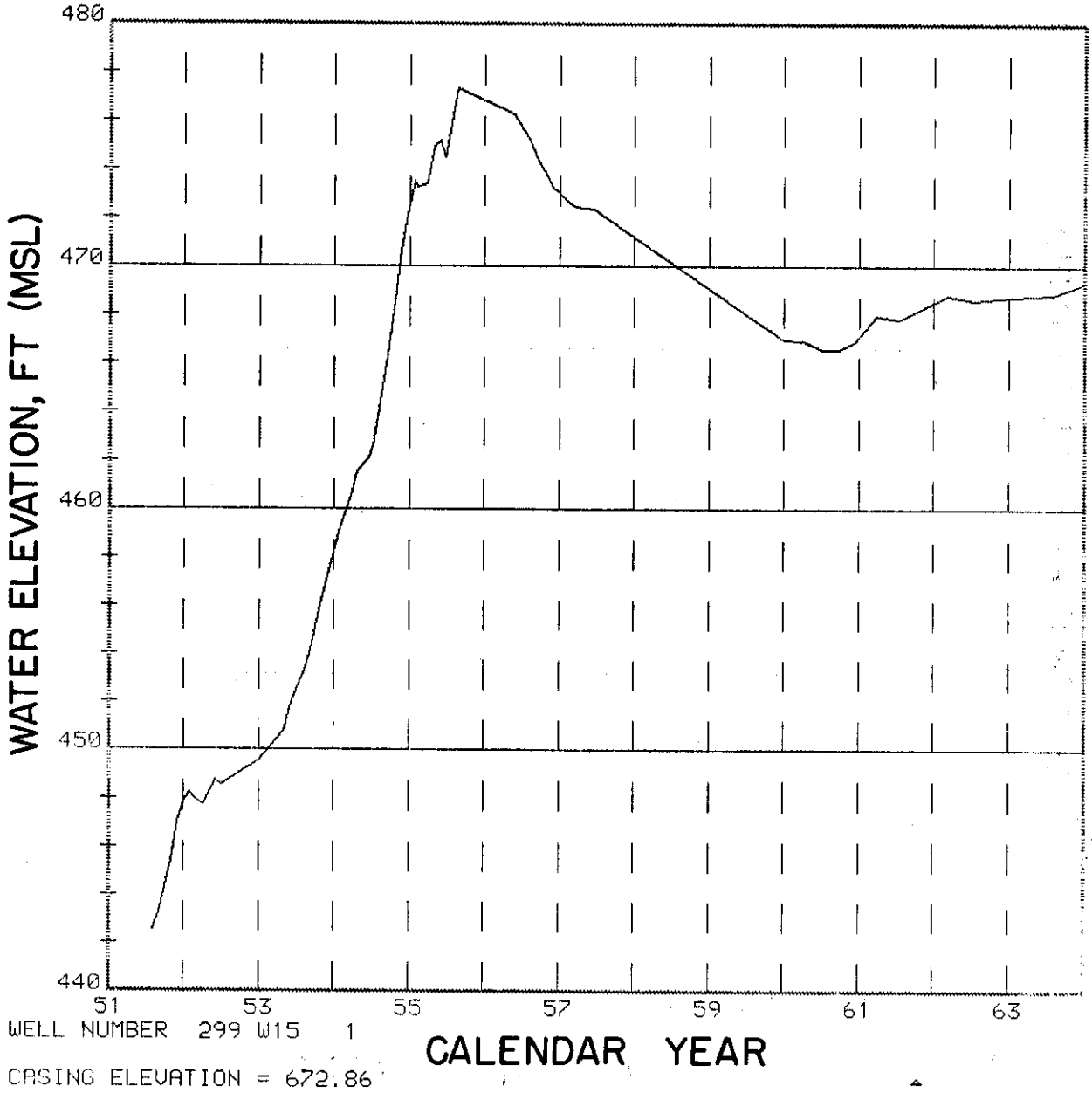
480
470
460
450
440
WATER ELEVATION, FT (MSL)
51
53
55
57
59
61
63
CALENDAR YEAR
WELL NUMBER 299 W15 1
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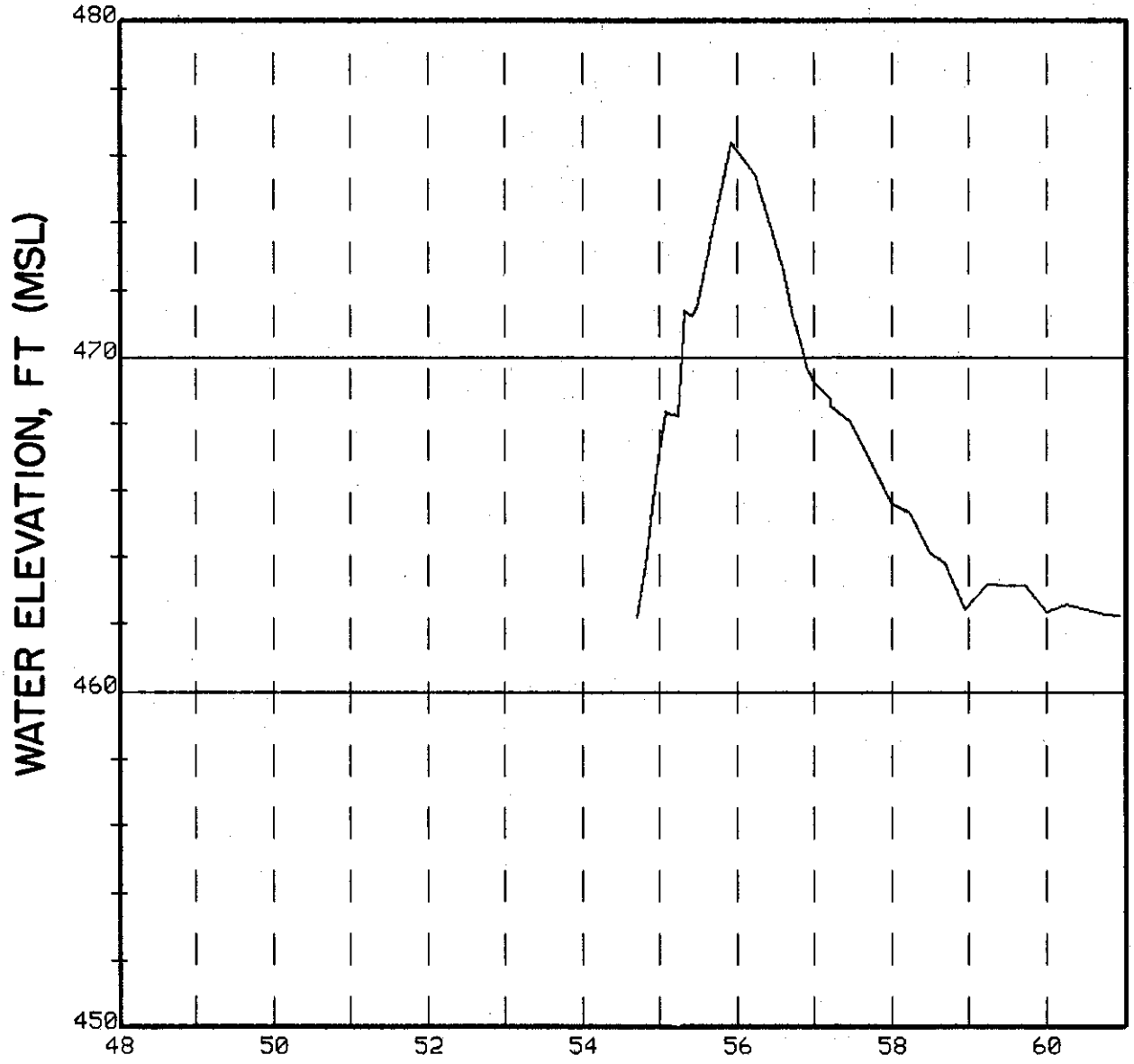

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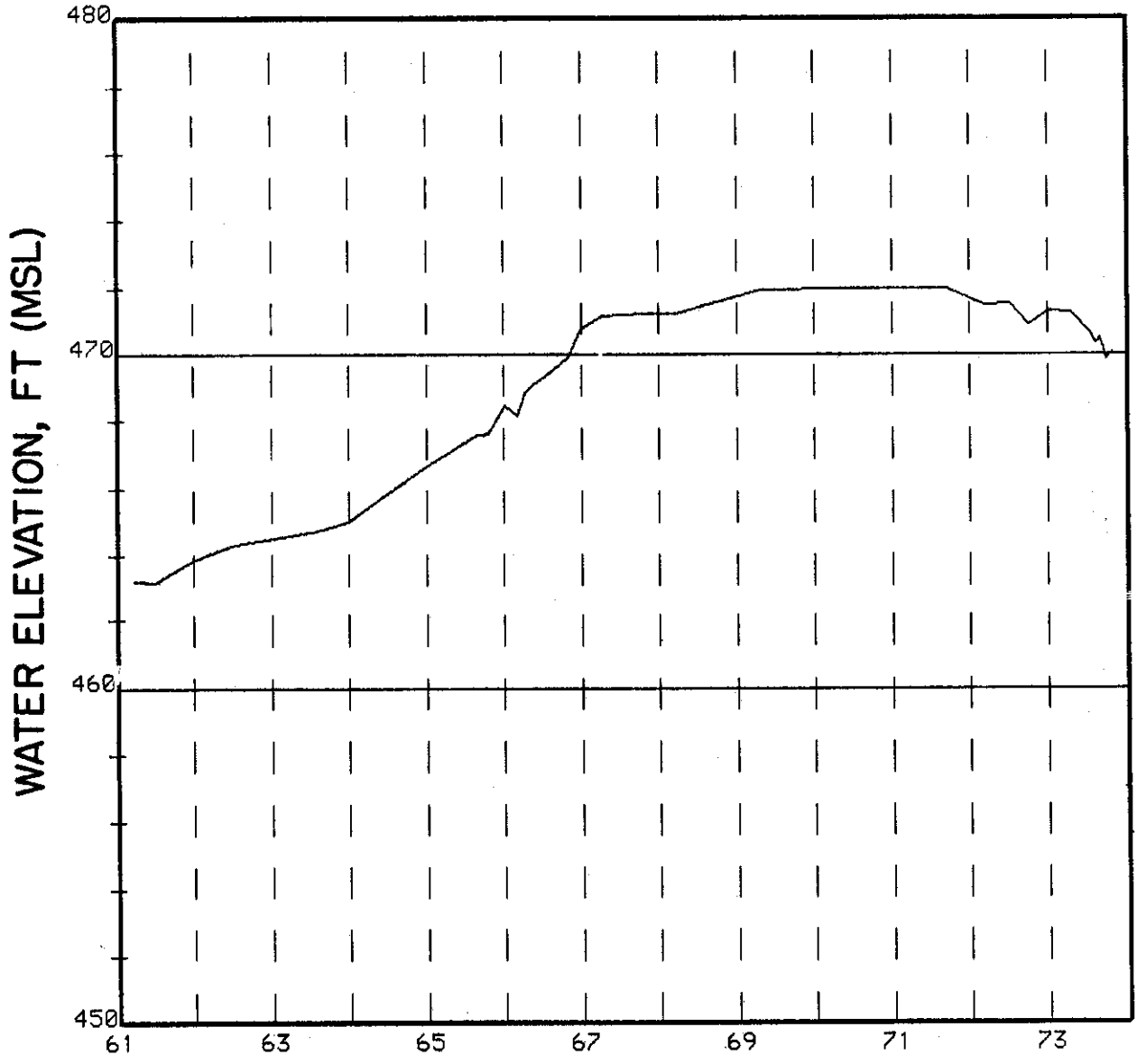

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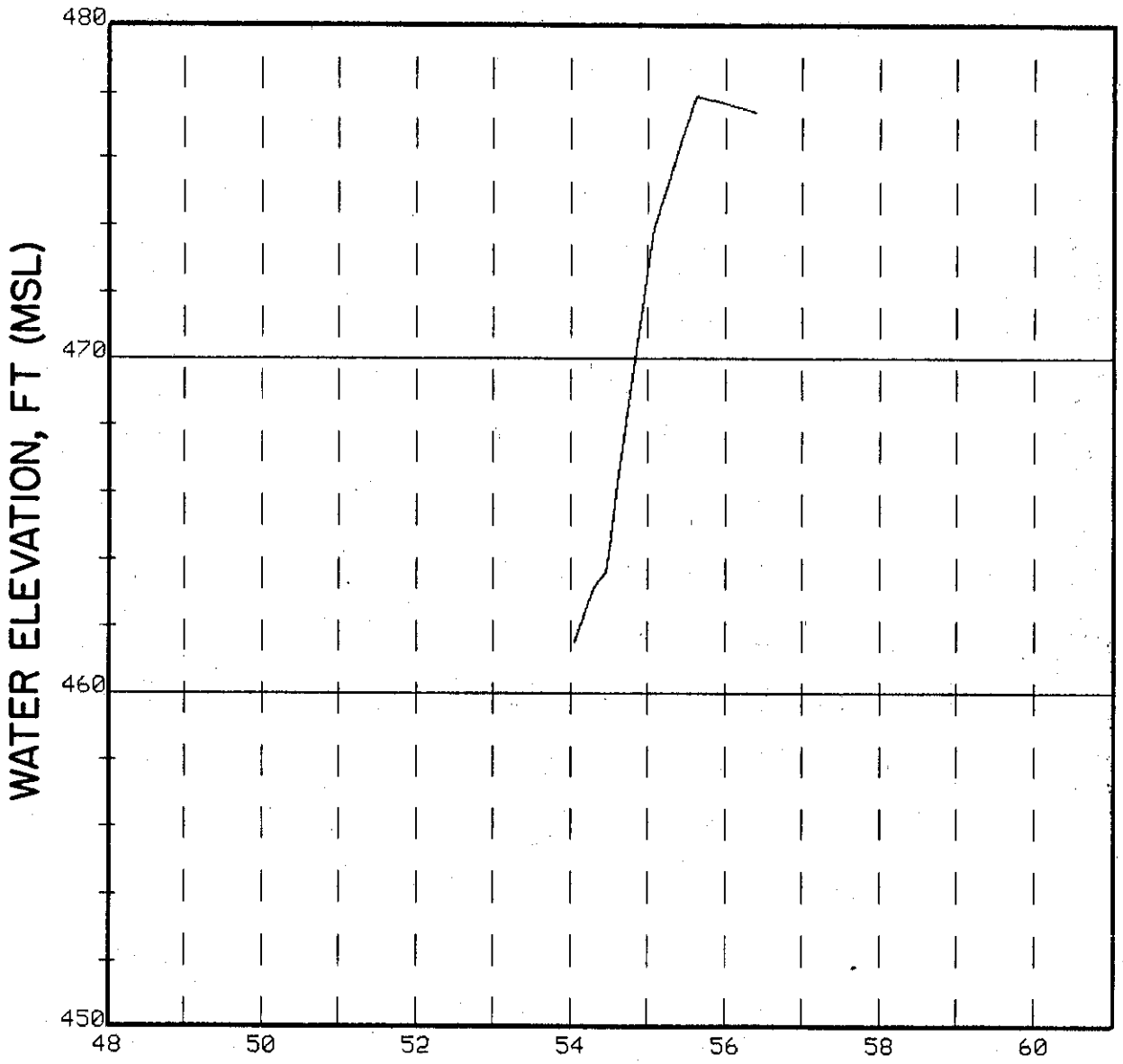

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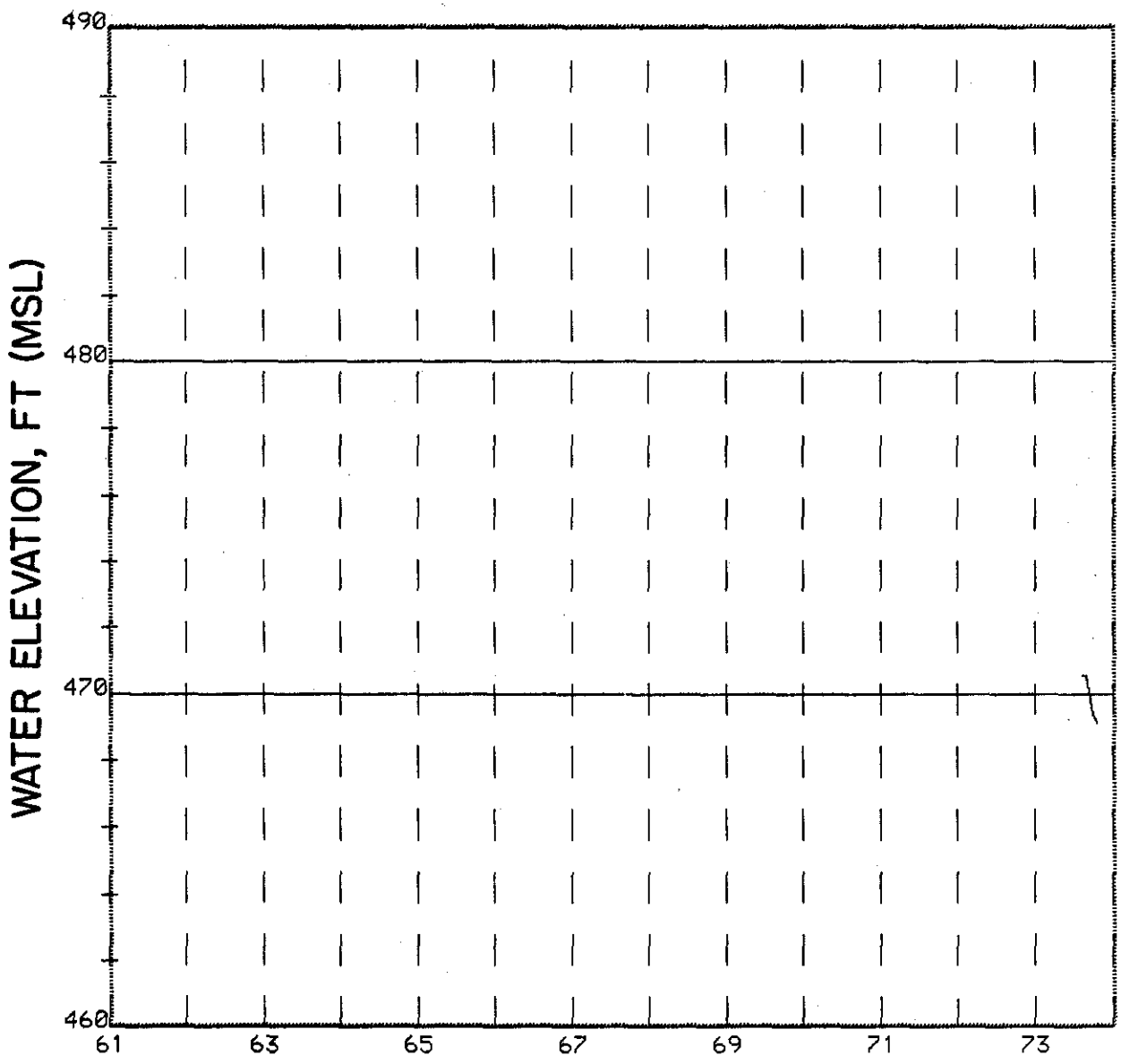

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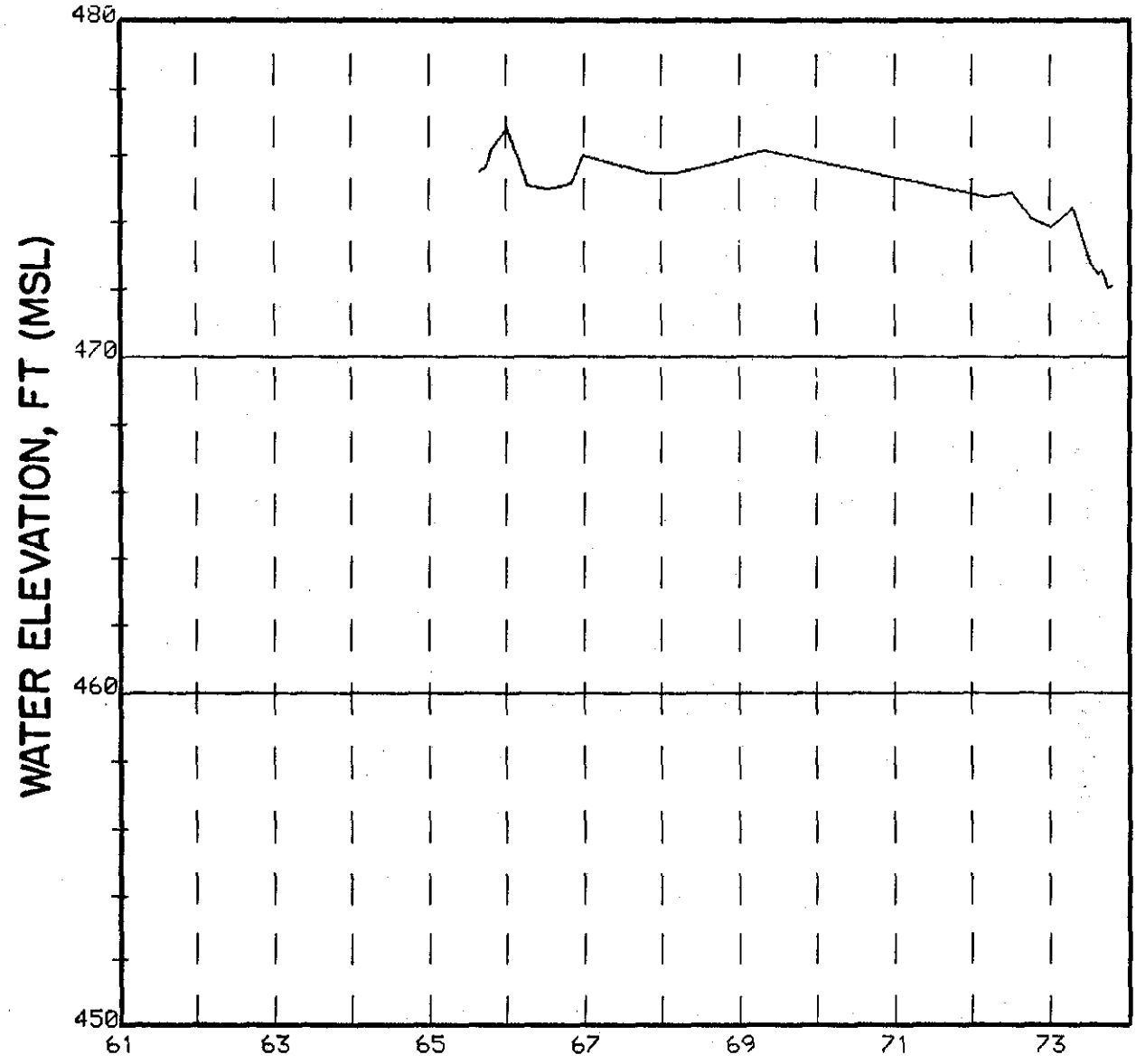

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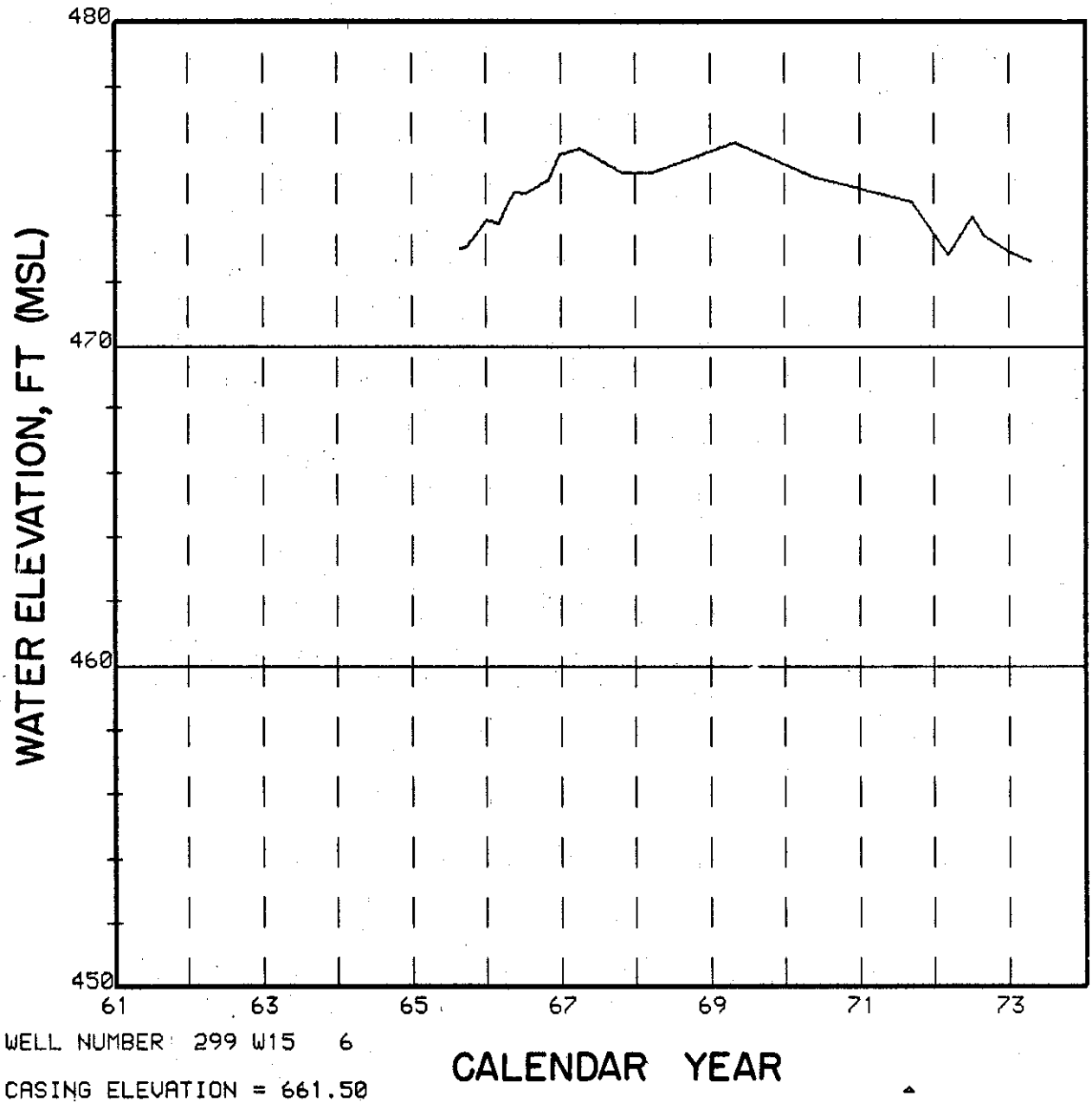

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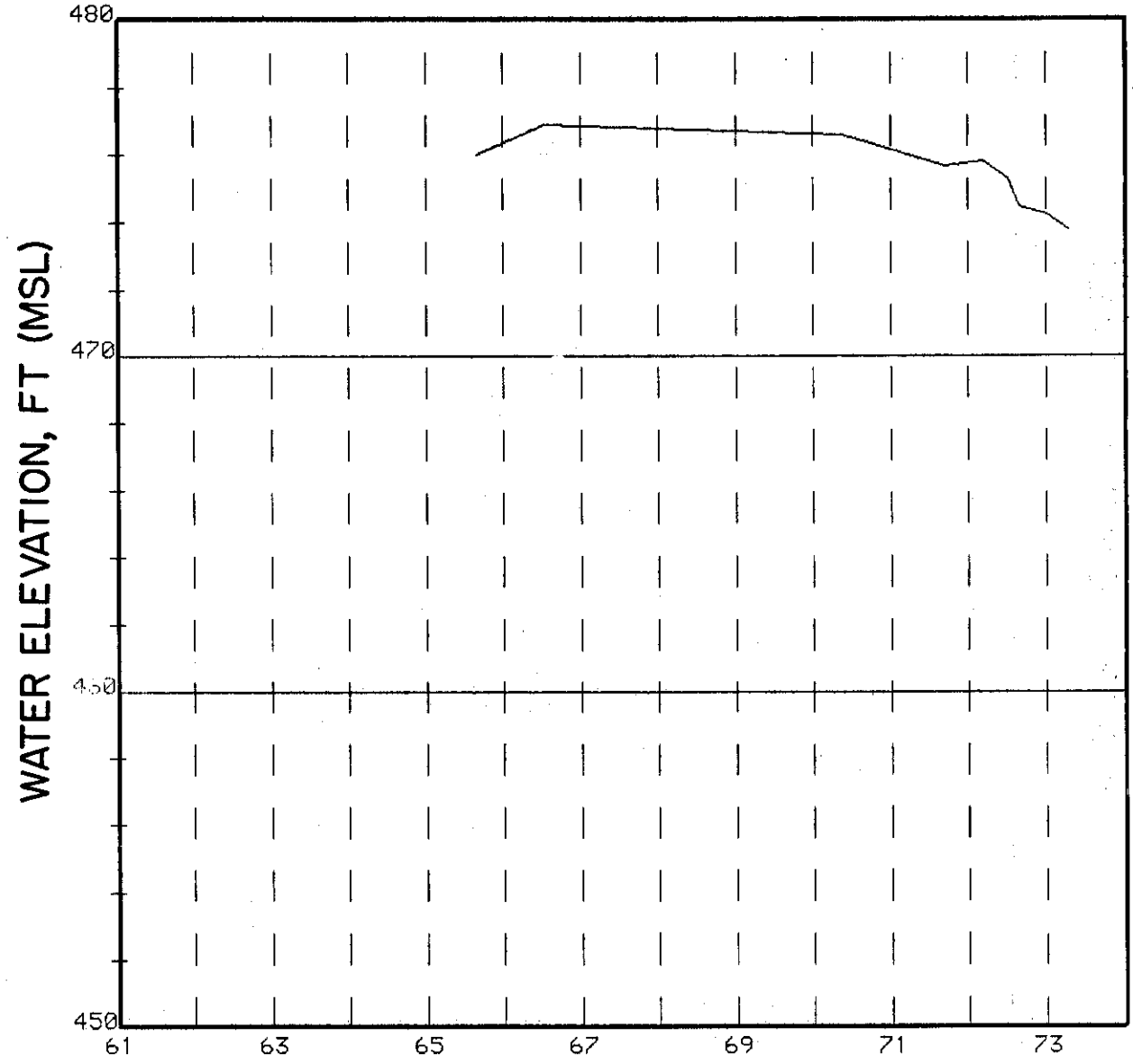

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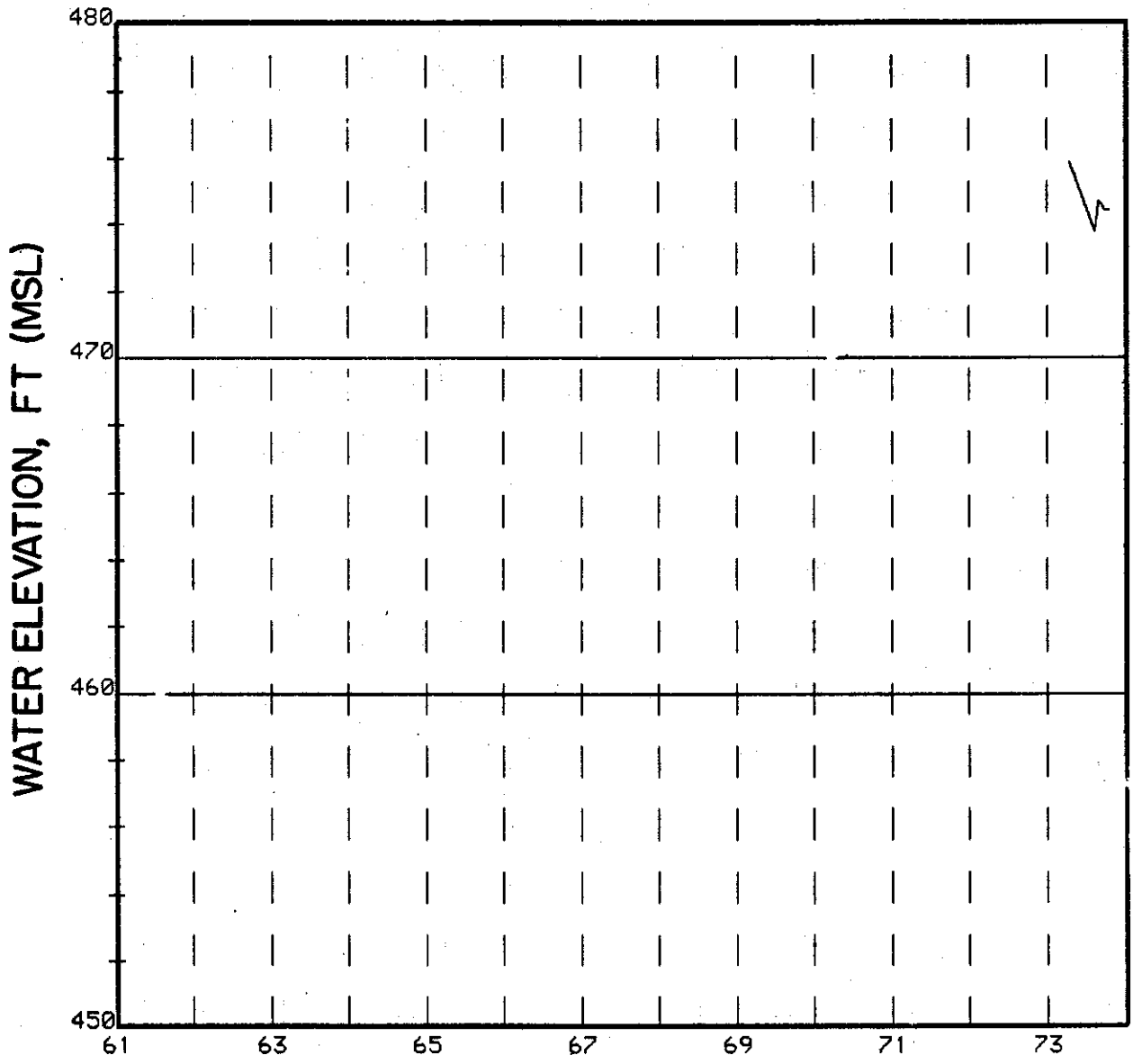

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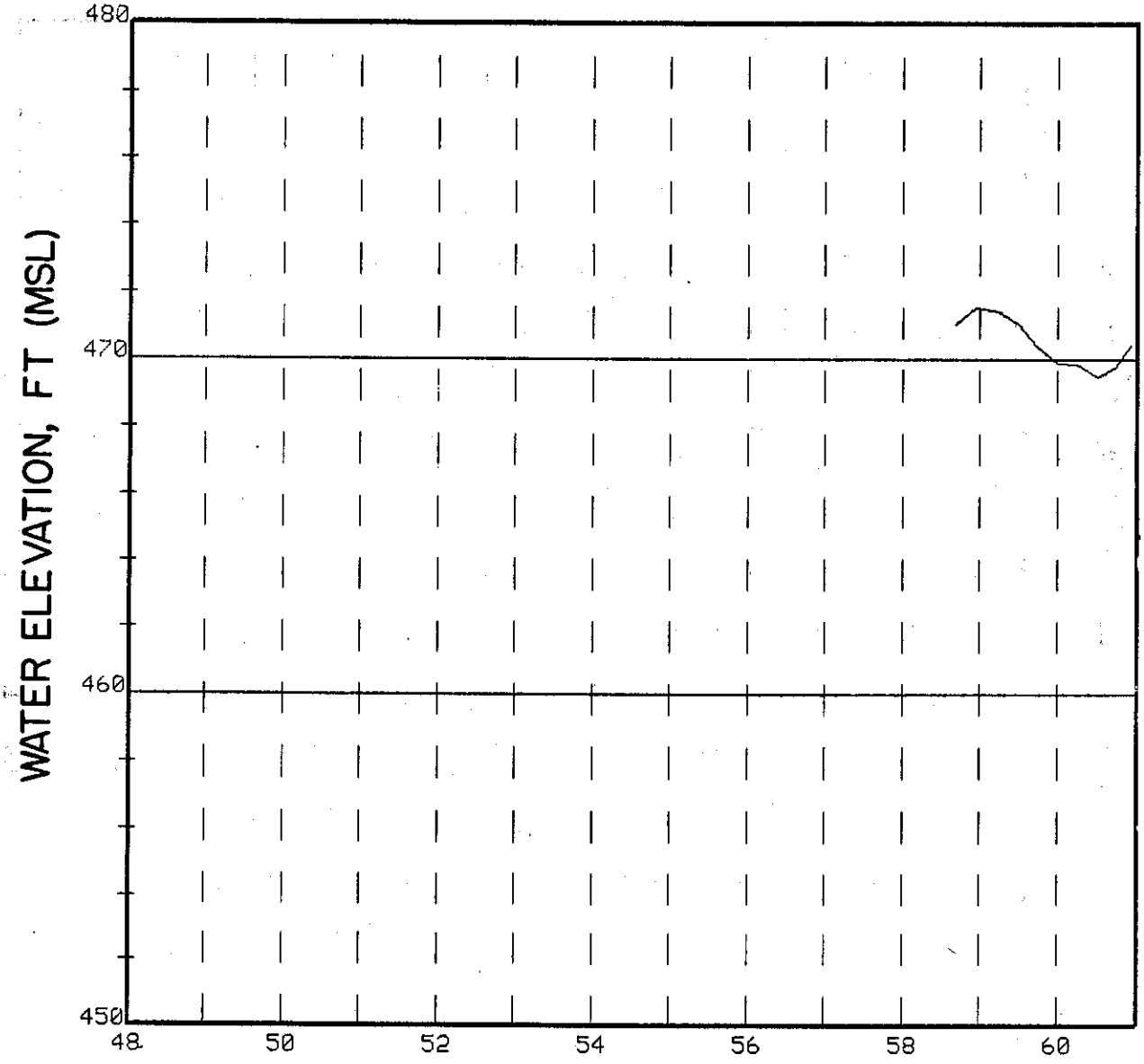

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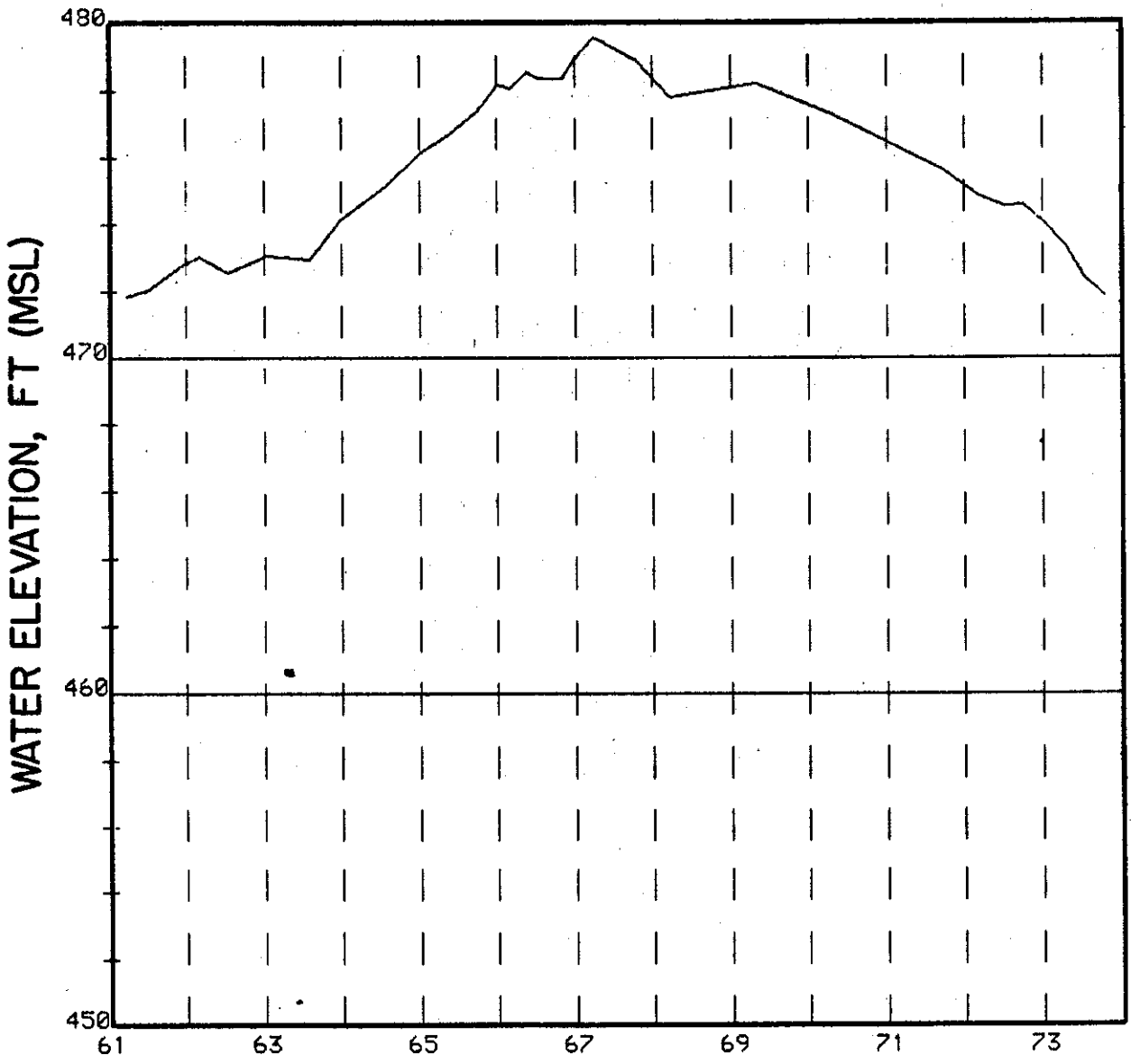

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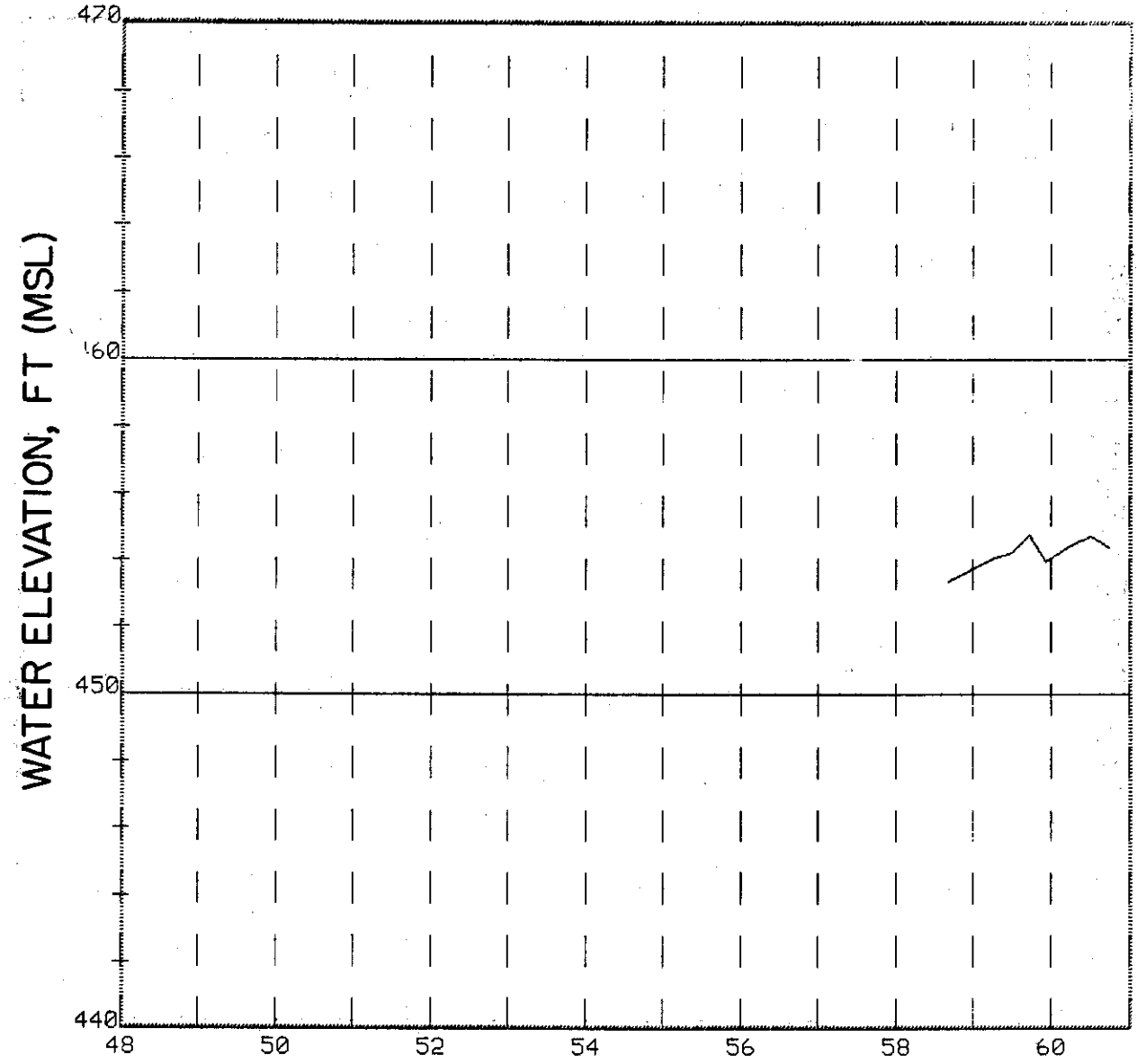

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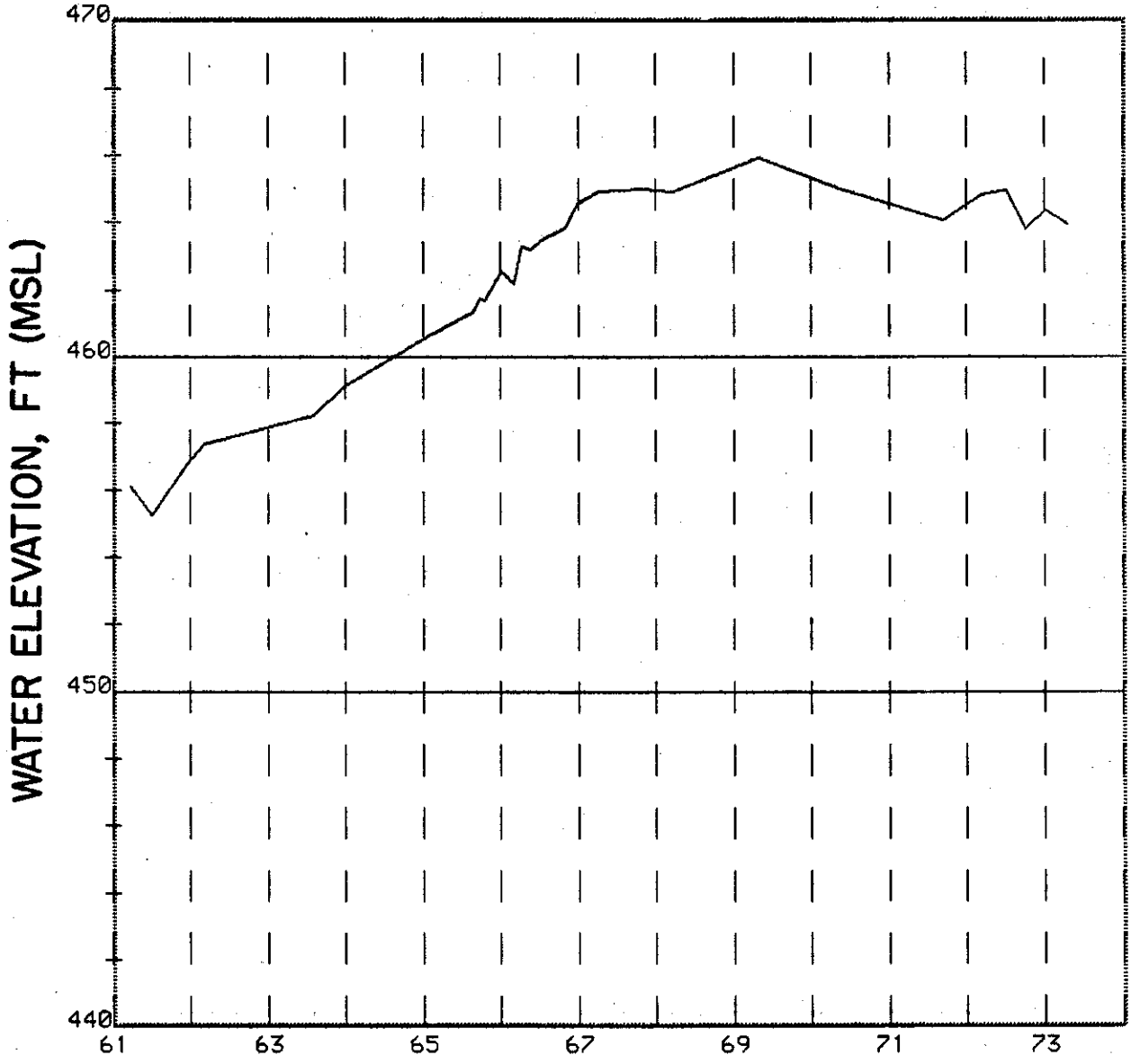

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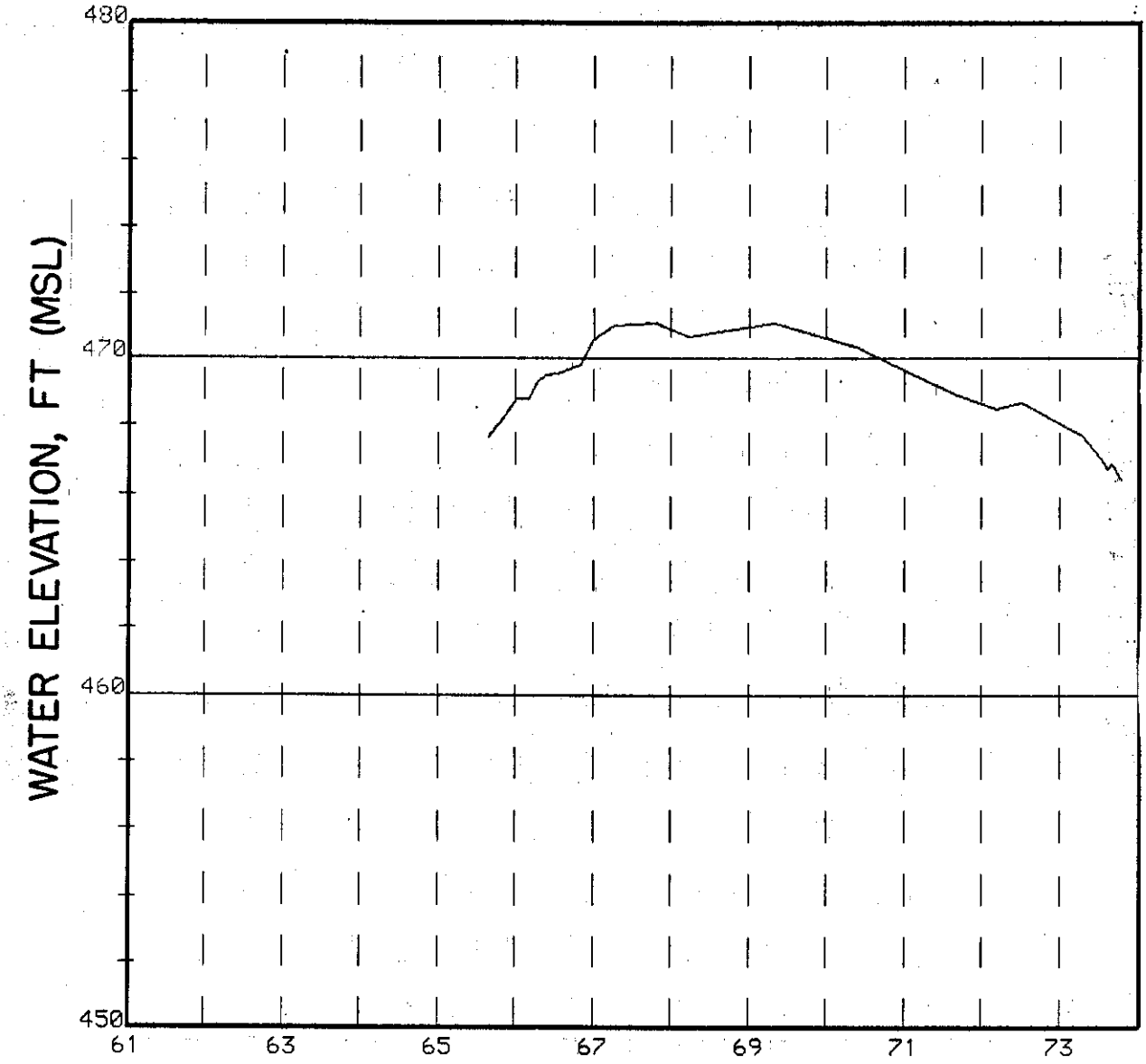

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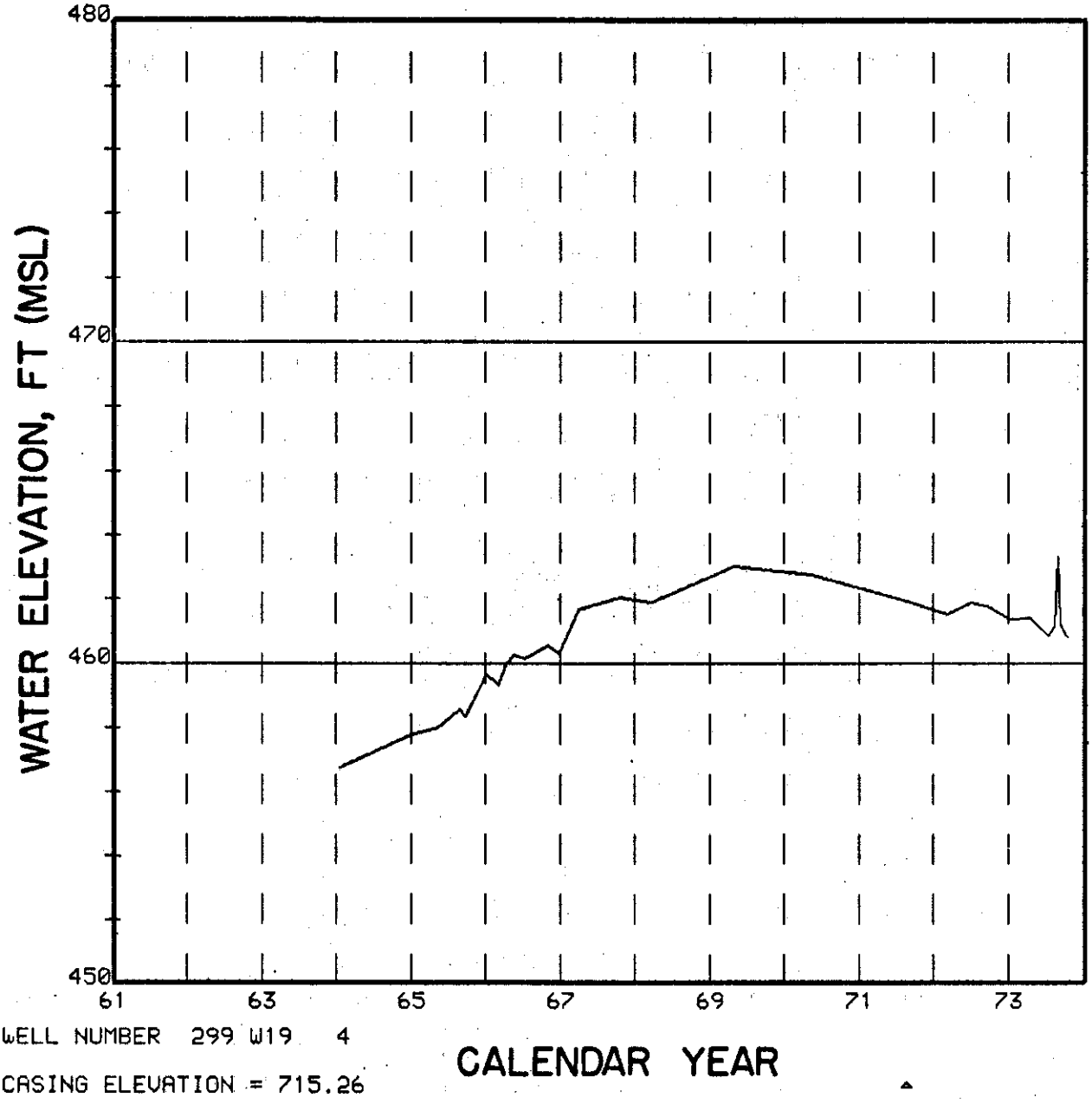

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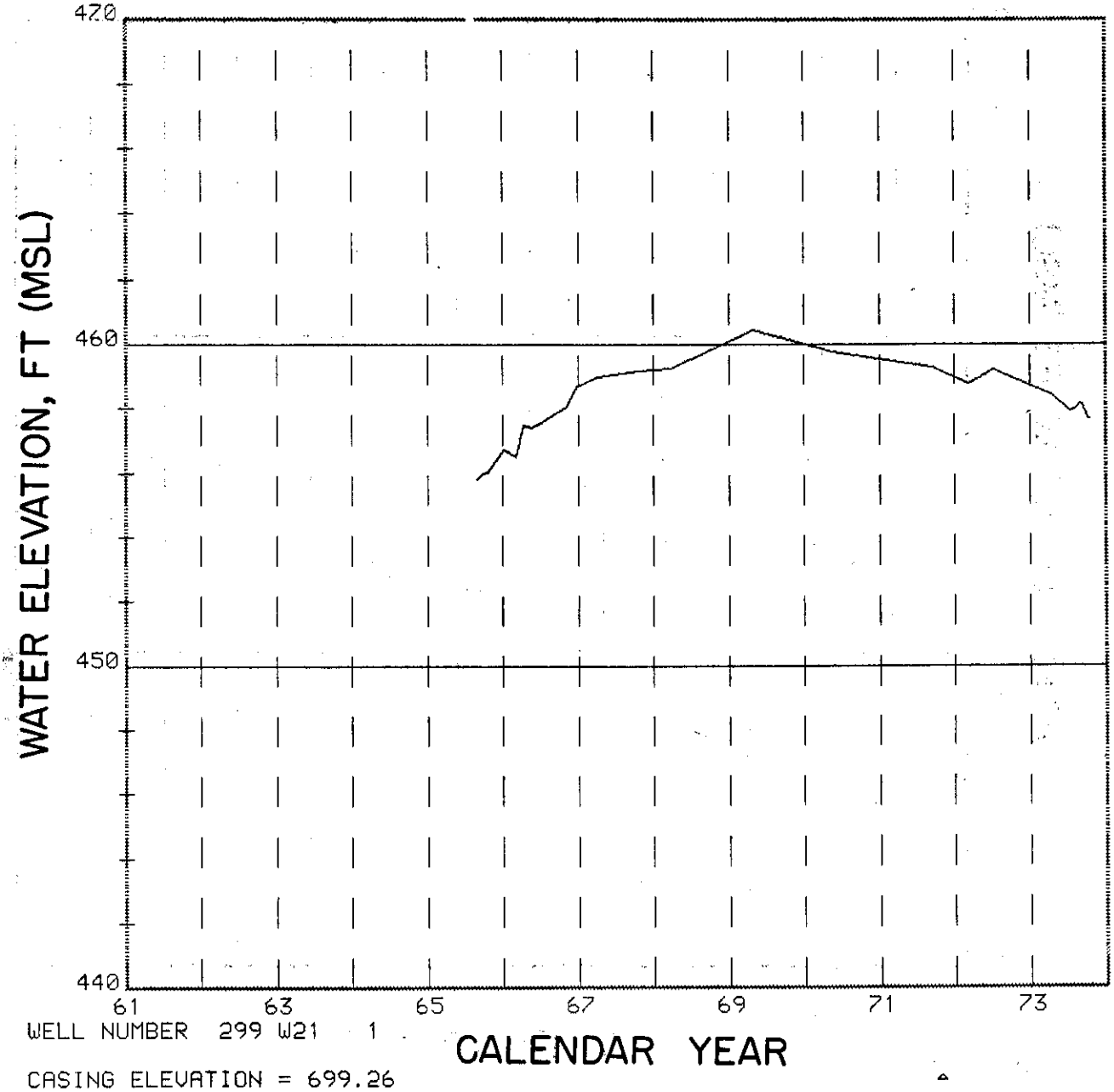

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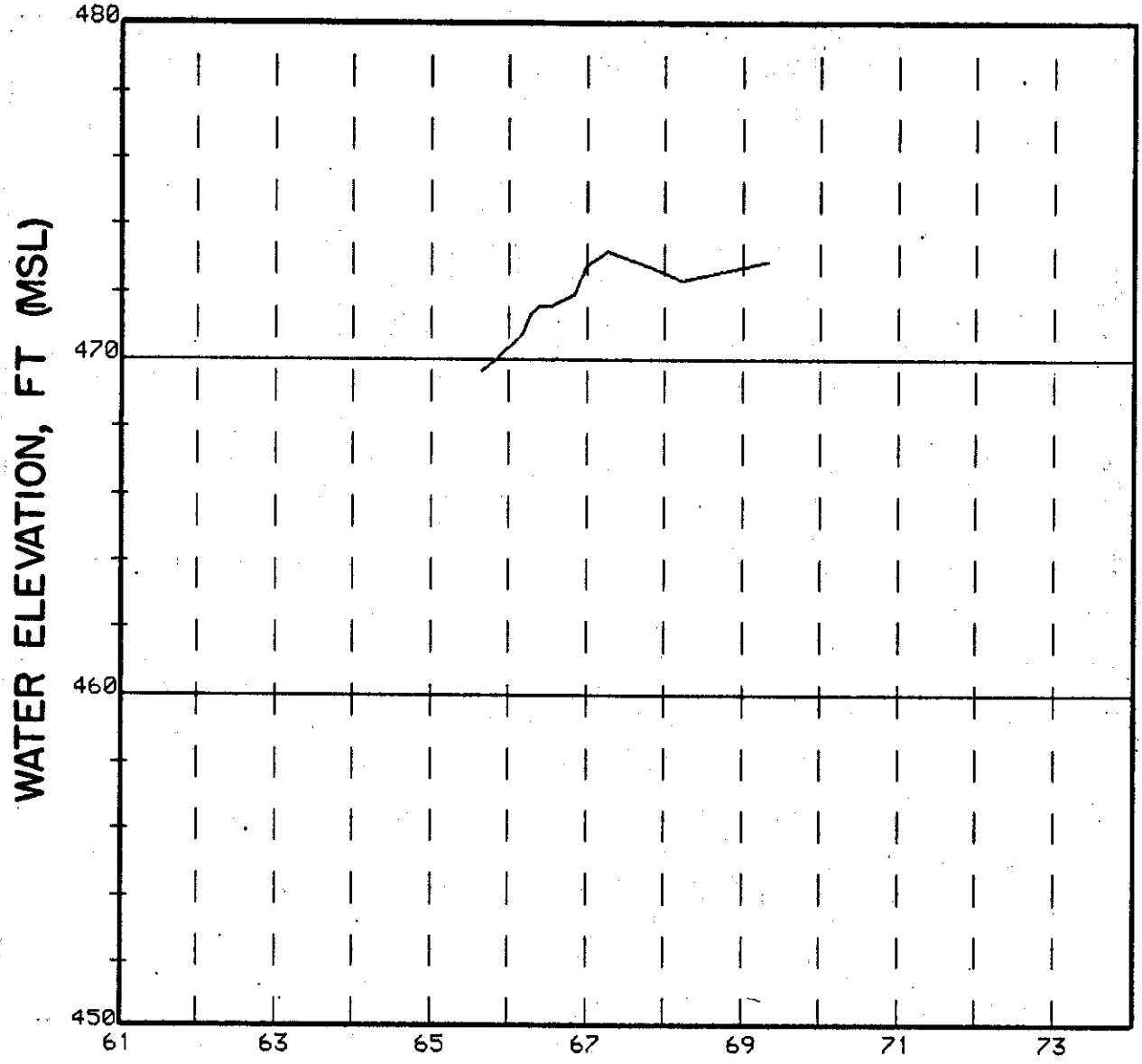

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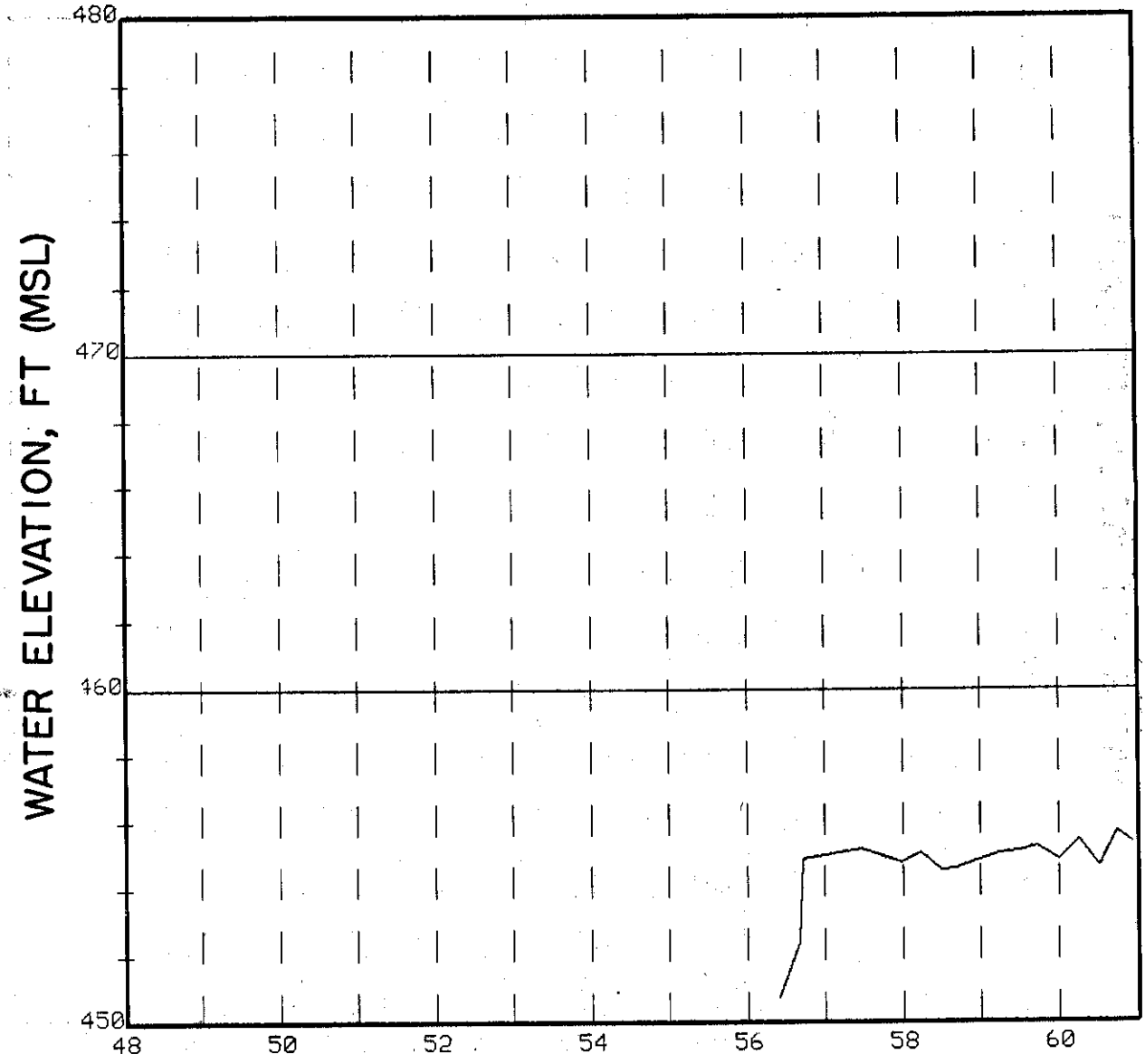

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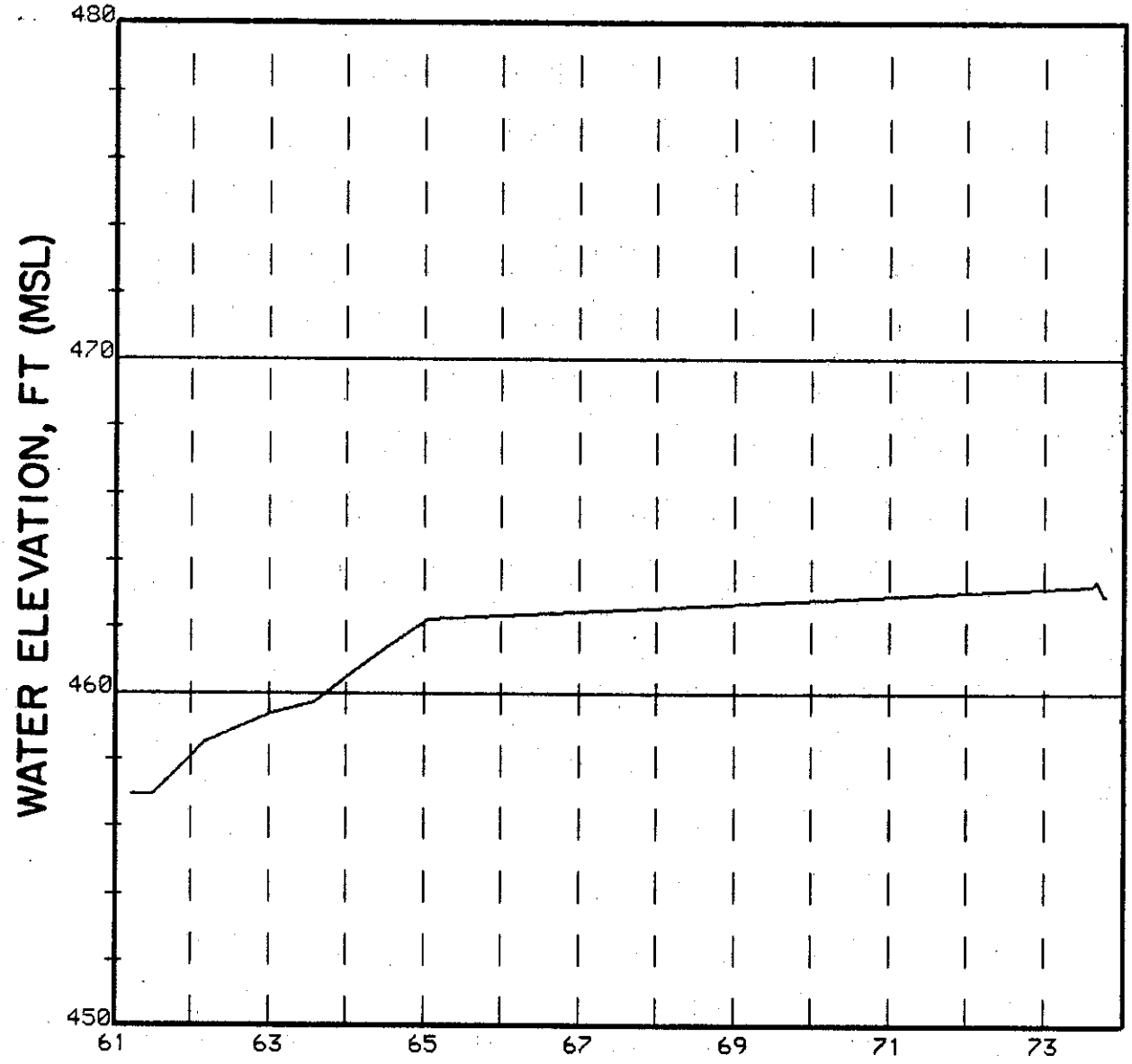

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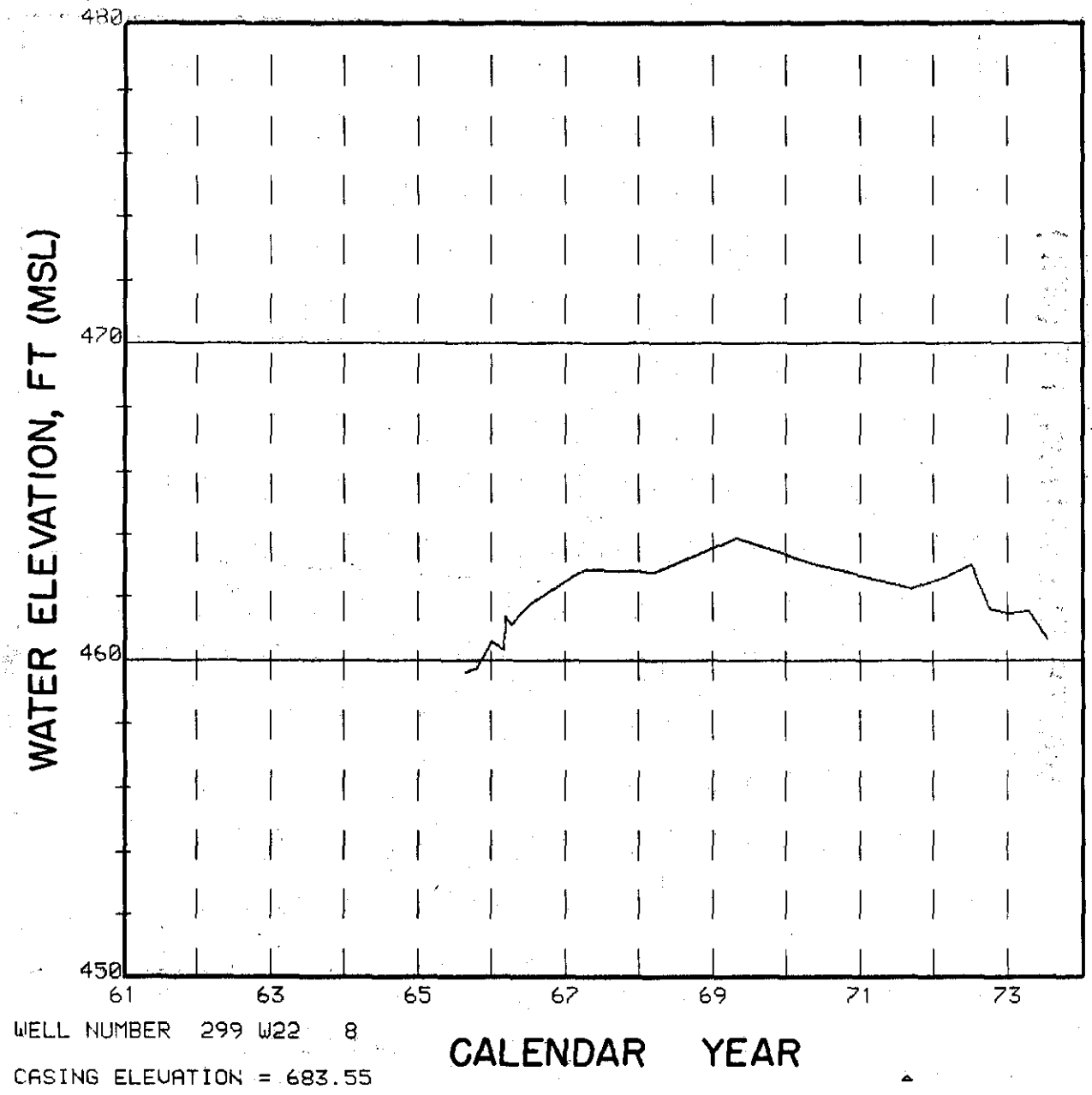

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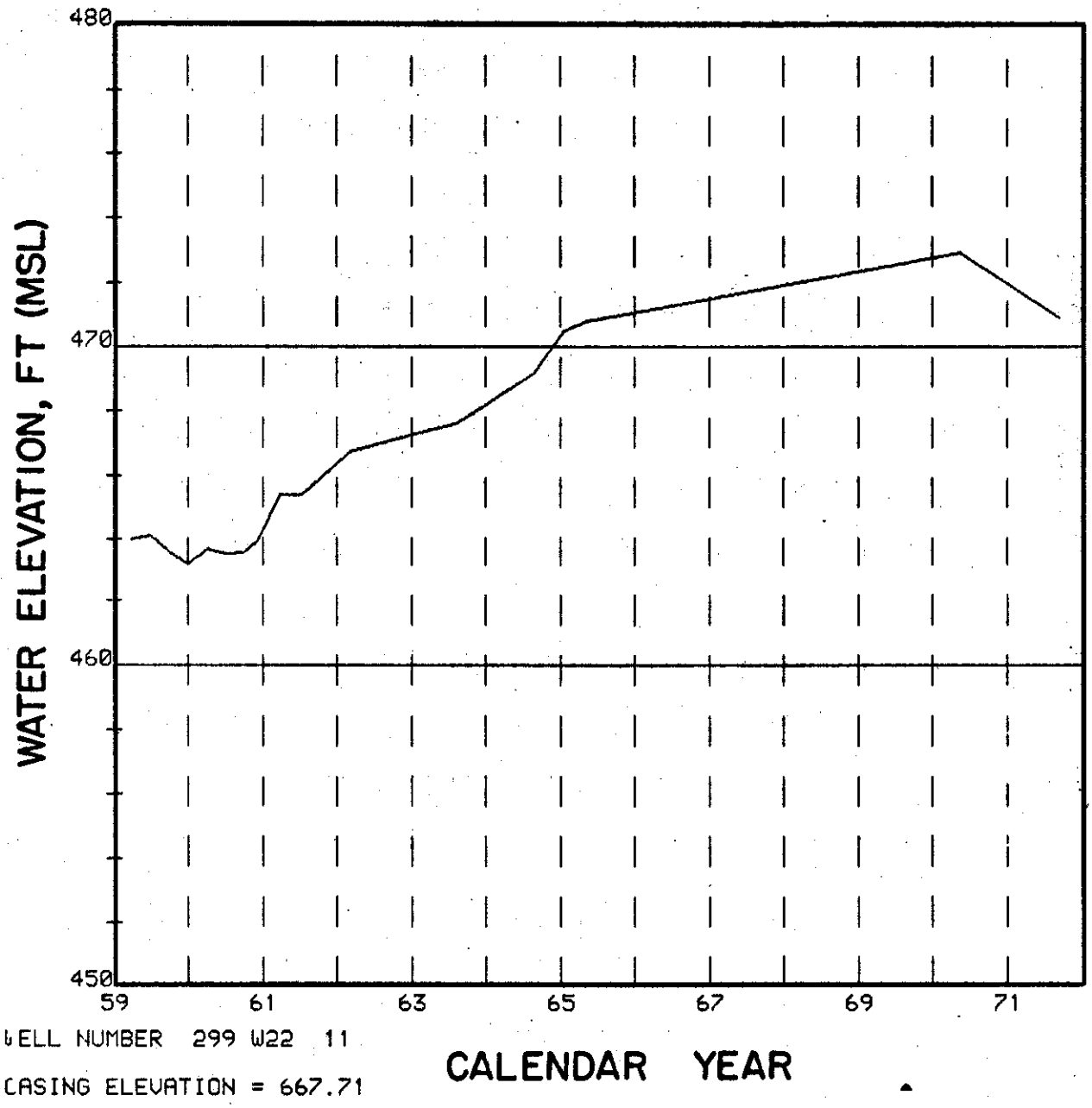

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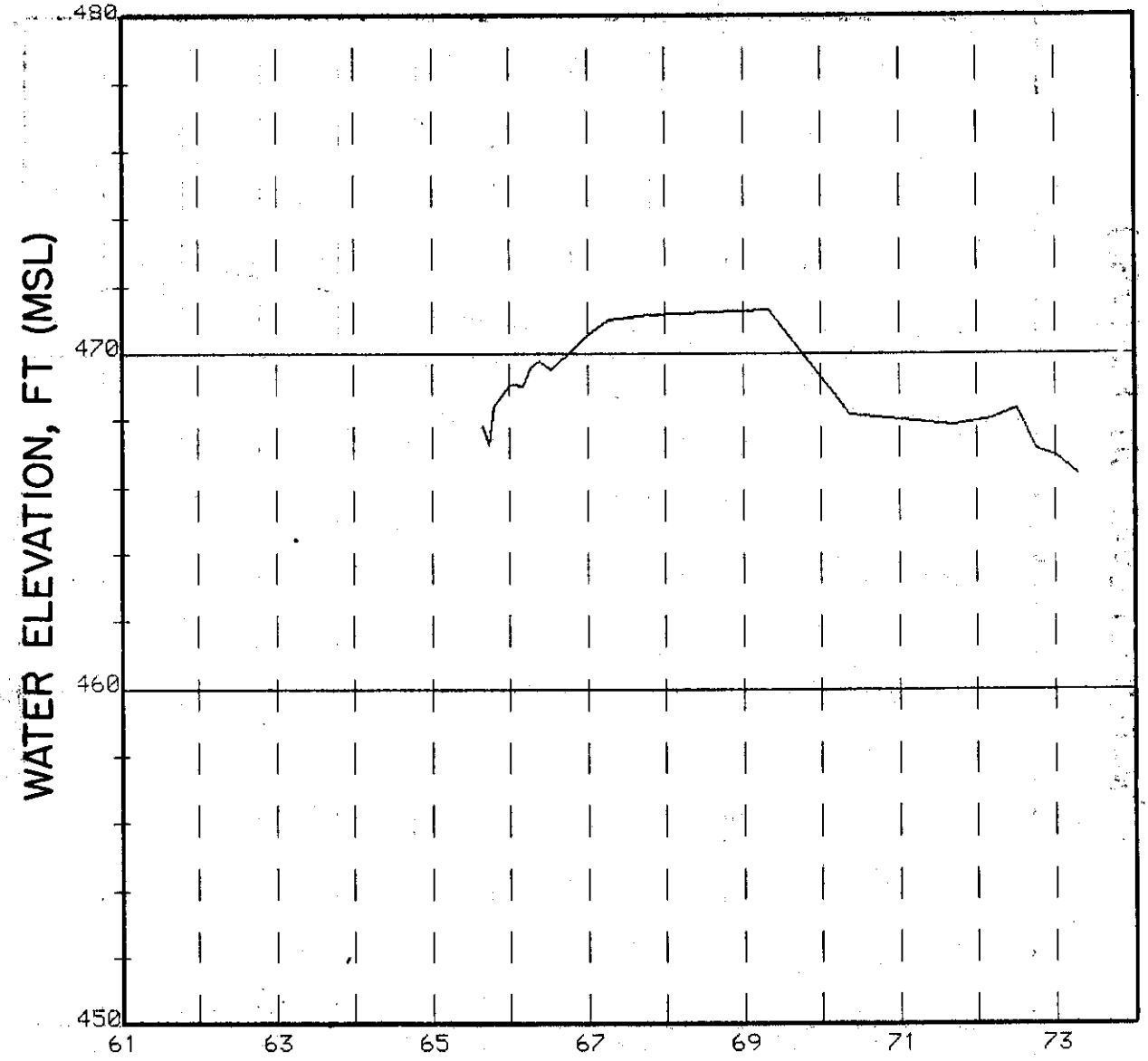

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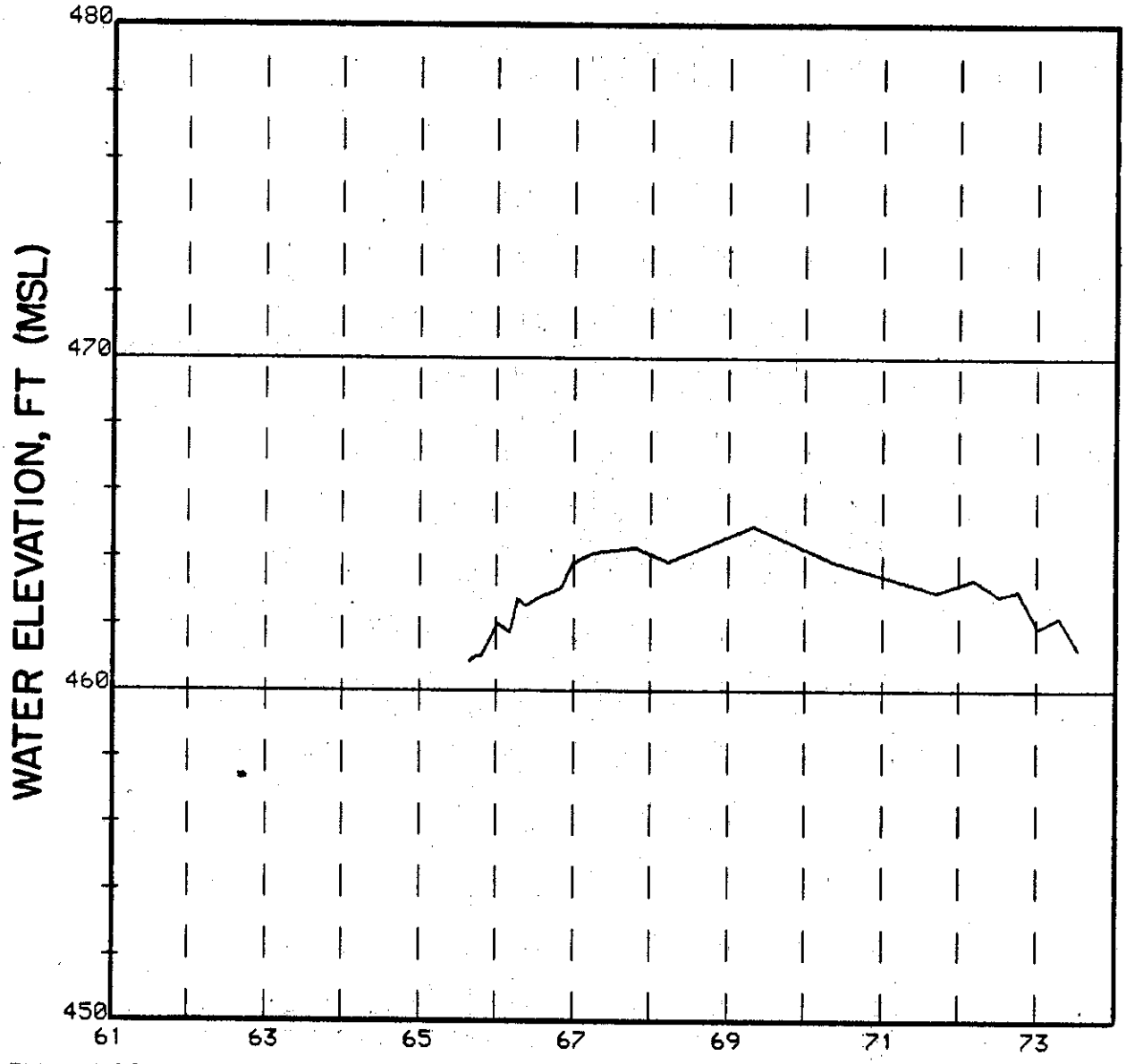

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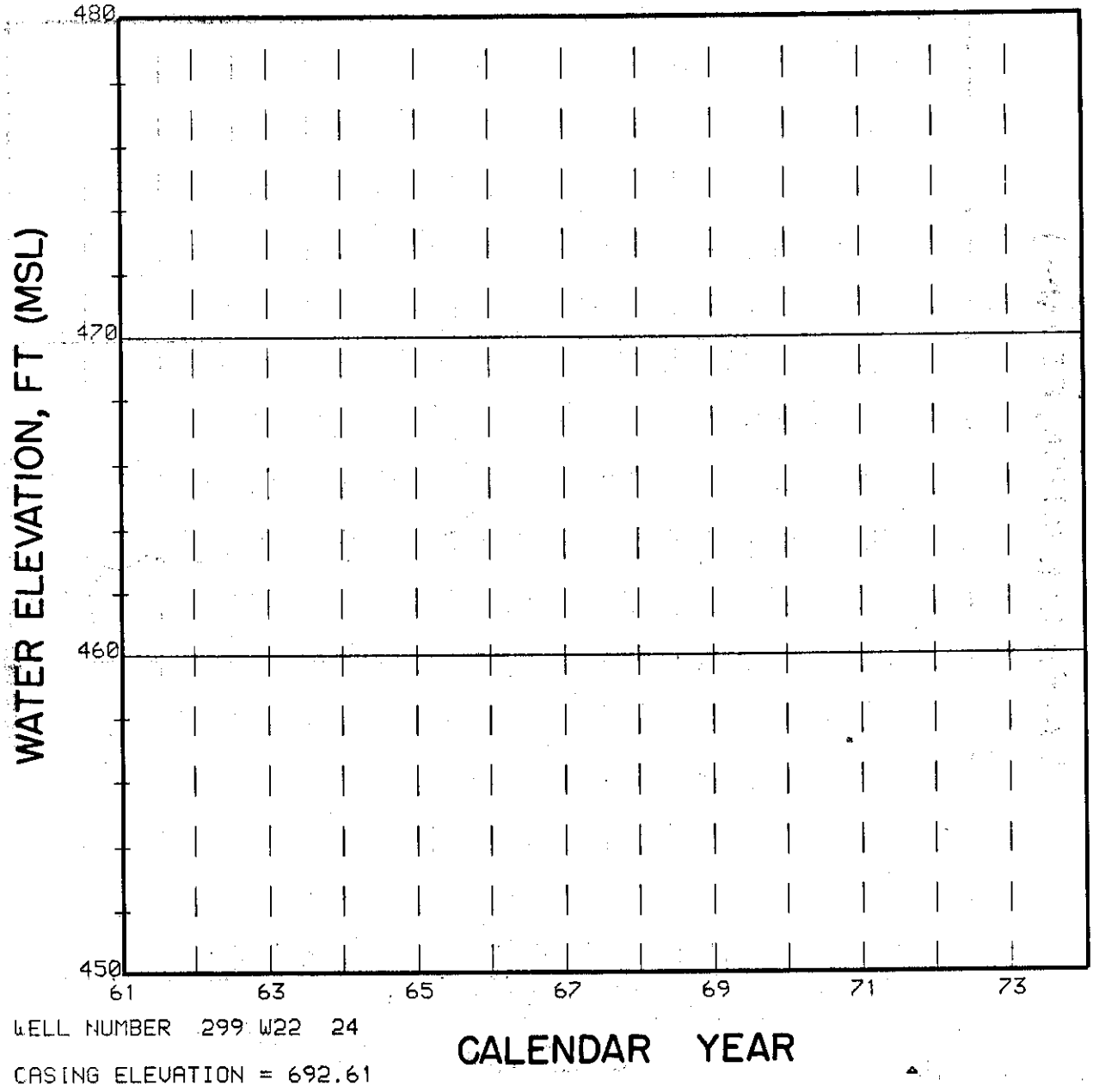

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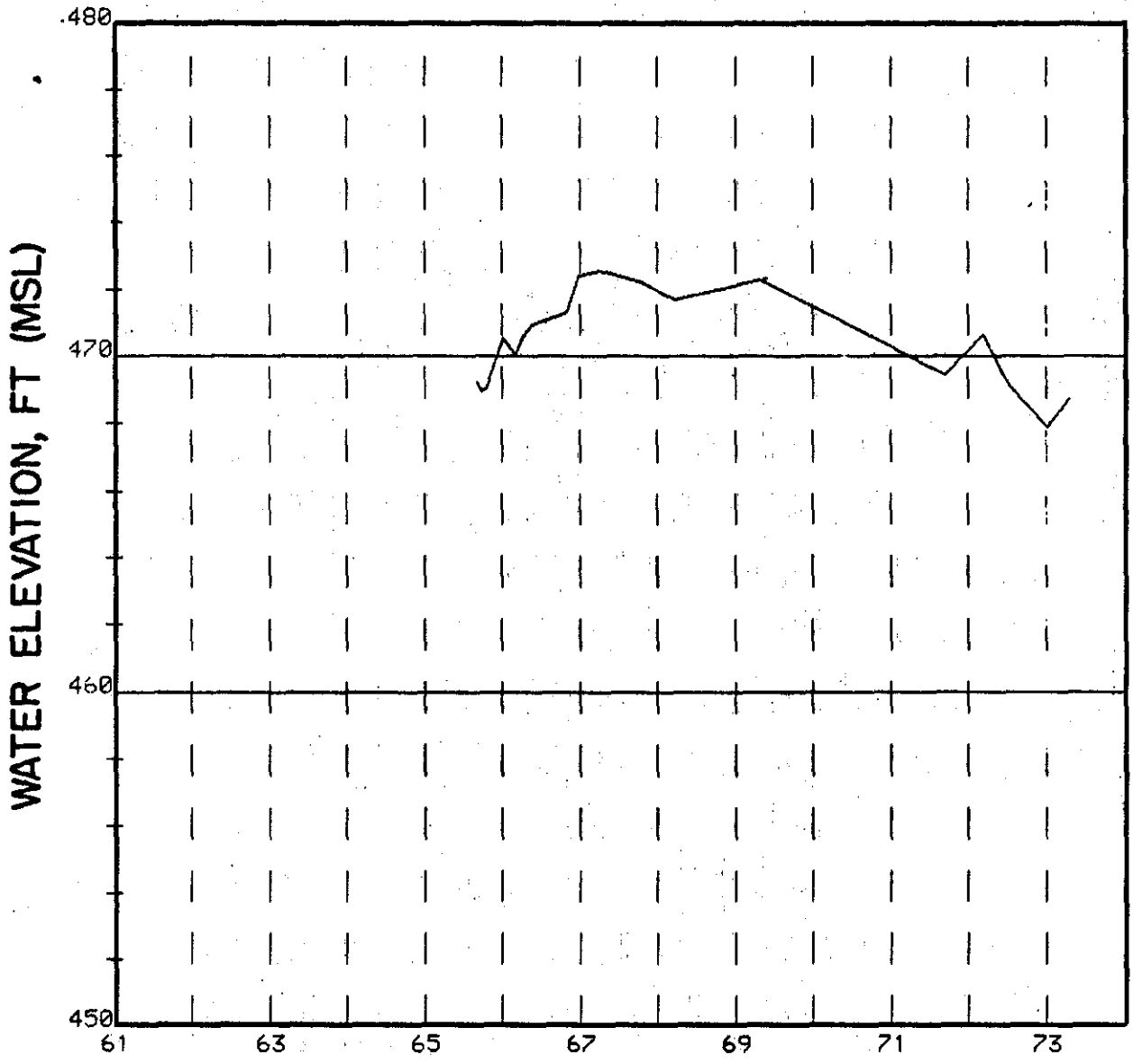

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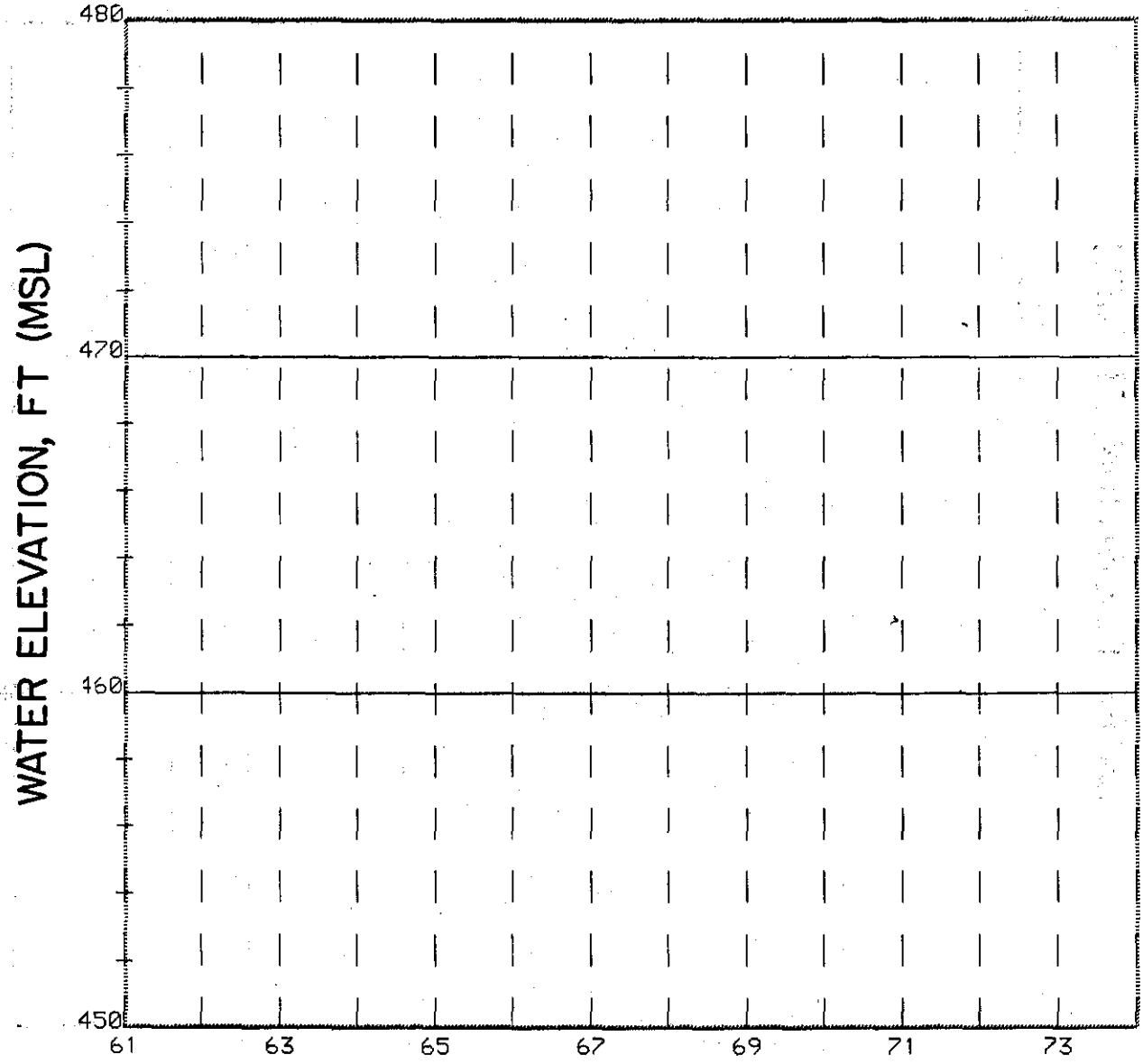


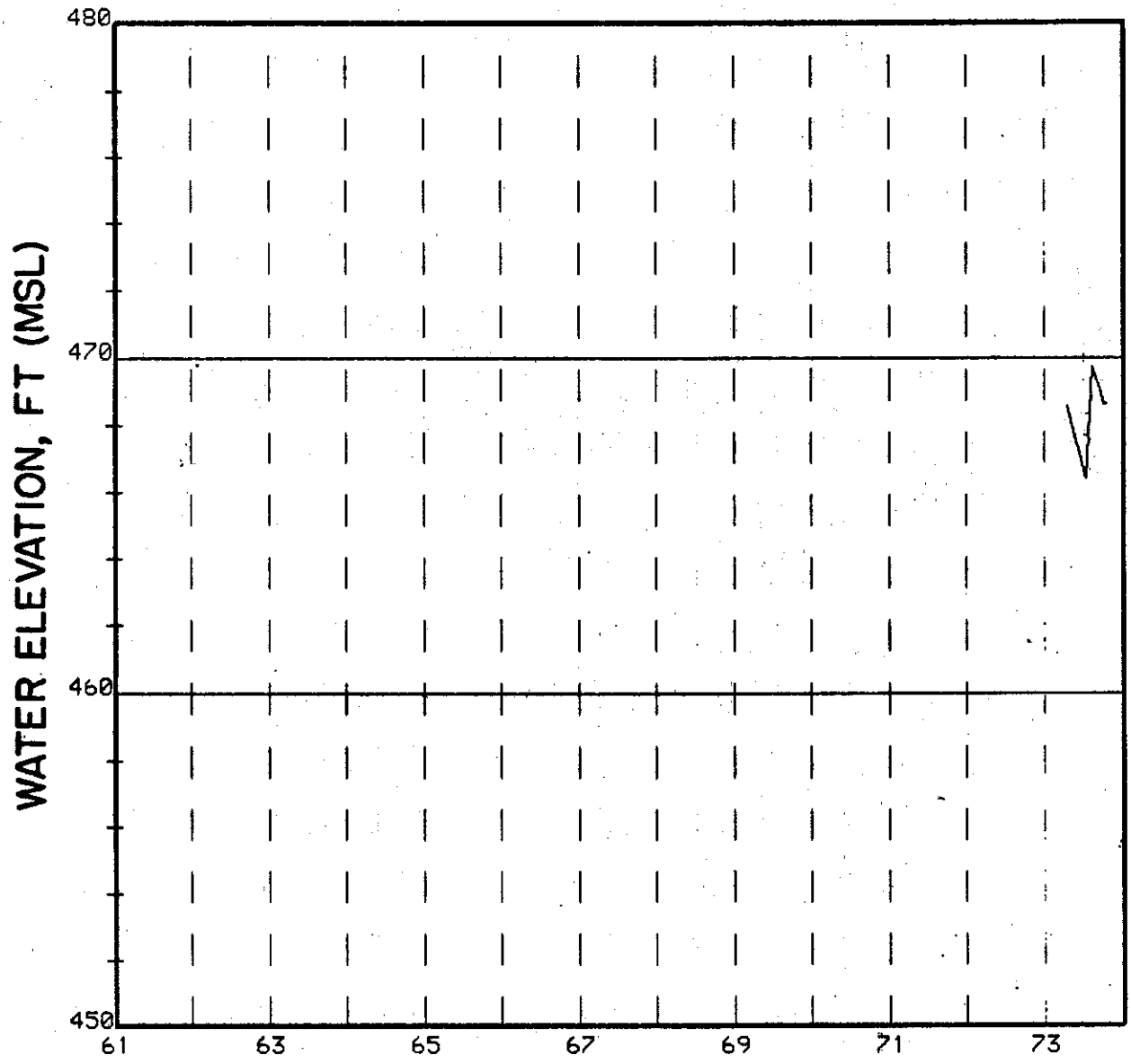
WELL NUMBER 299 W22 33

CASING ELEVATION = 675.00

This document was too large to scan as a single document; therefore, it has been divided into smaller sections.

Section 2 of 3

Document Information			
Document #	BNWL-B-360	Revision	
Title	Selected Water Table Contour Maps & Well Hydrographs for the Hanford Reservation, 1944-1973		
Date	01/01/1974		
Originator	Kipp, KL Mudd, RD	Originator Co.	
Recipient		Recipient Co.	
References			
Keywords	Groundwater, Hanford Site, Environmental Effects		
Projects			
Other Information			



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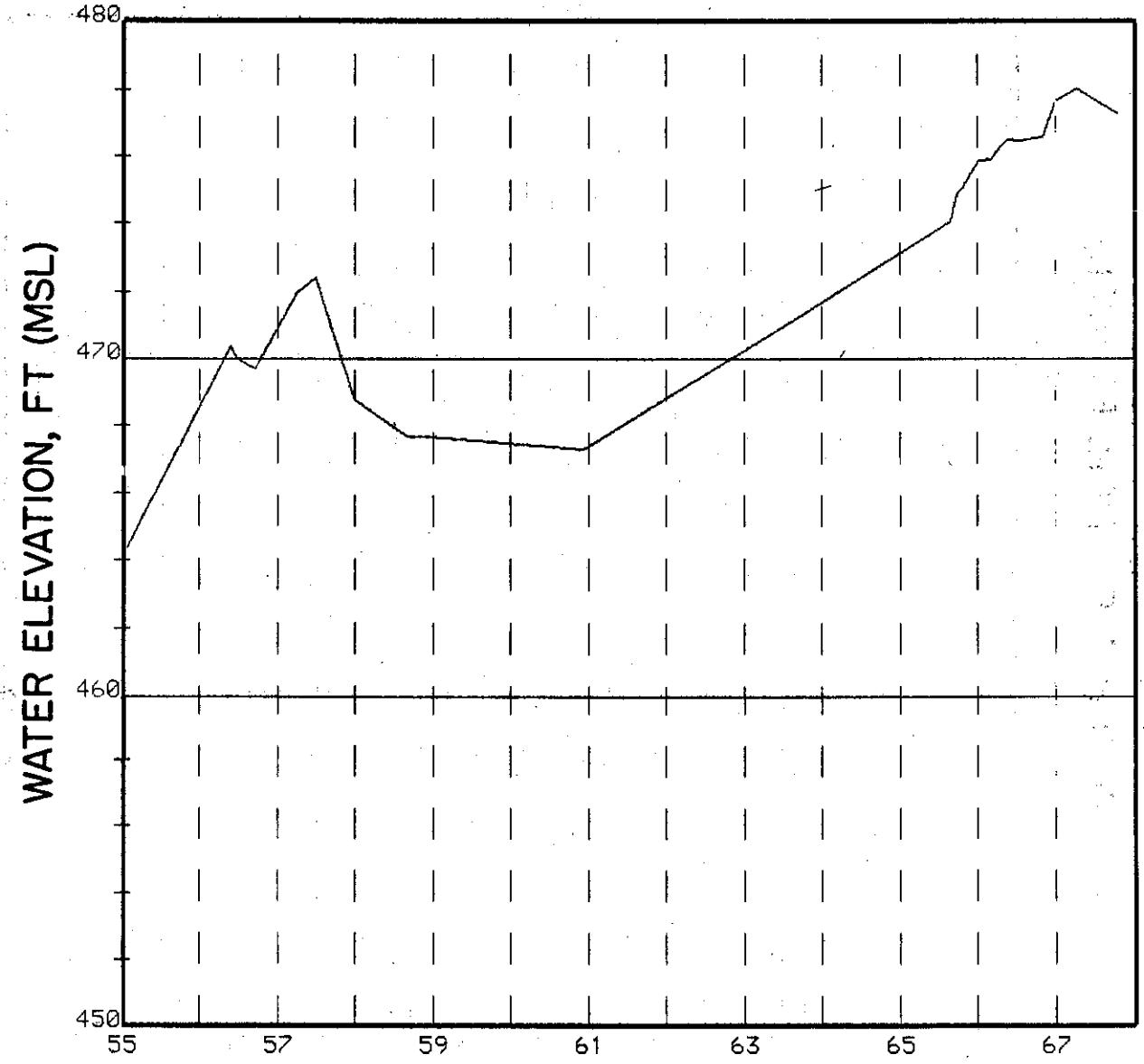

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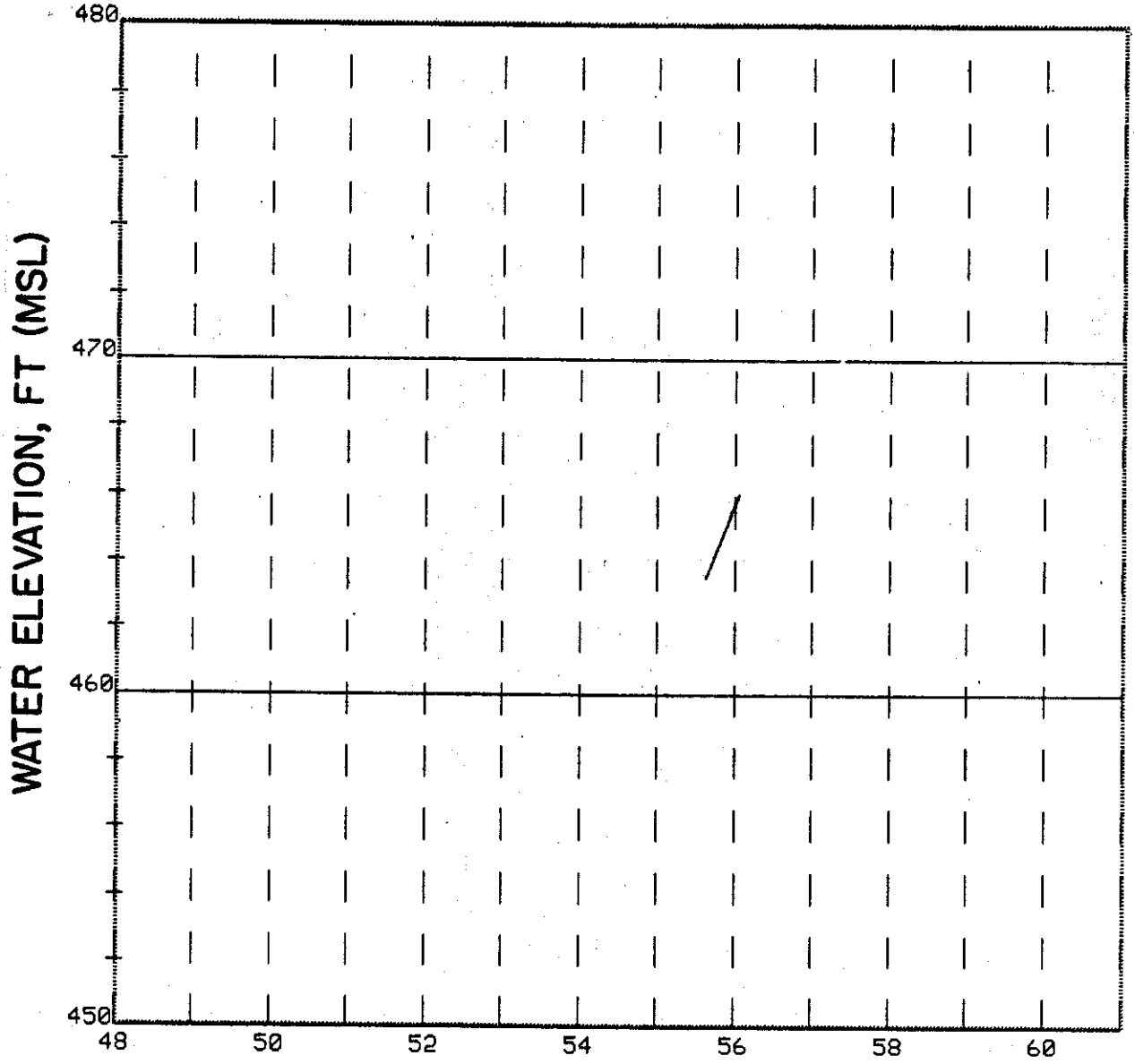

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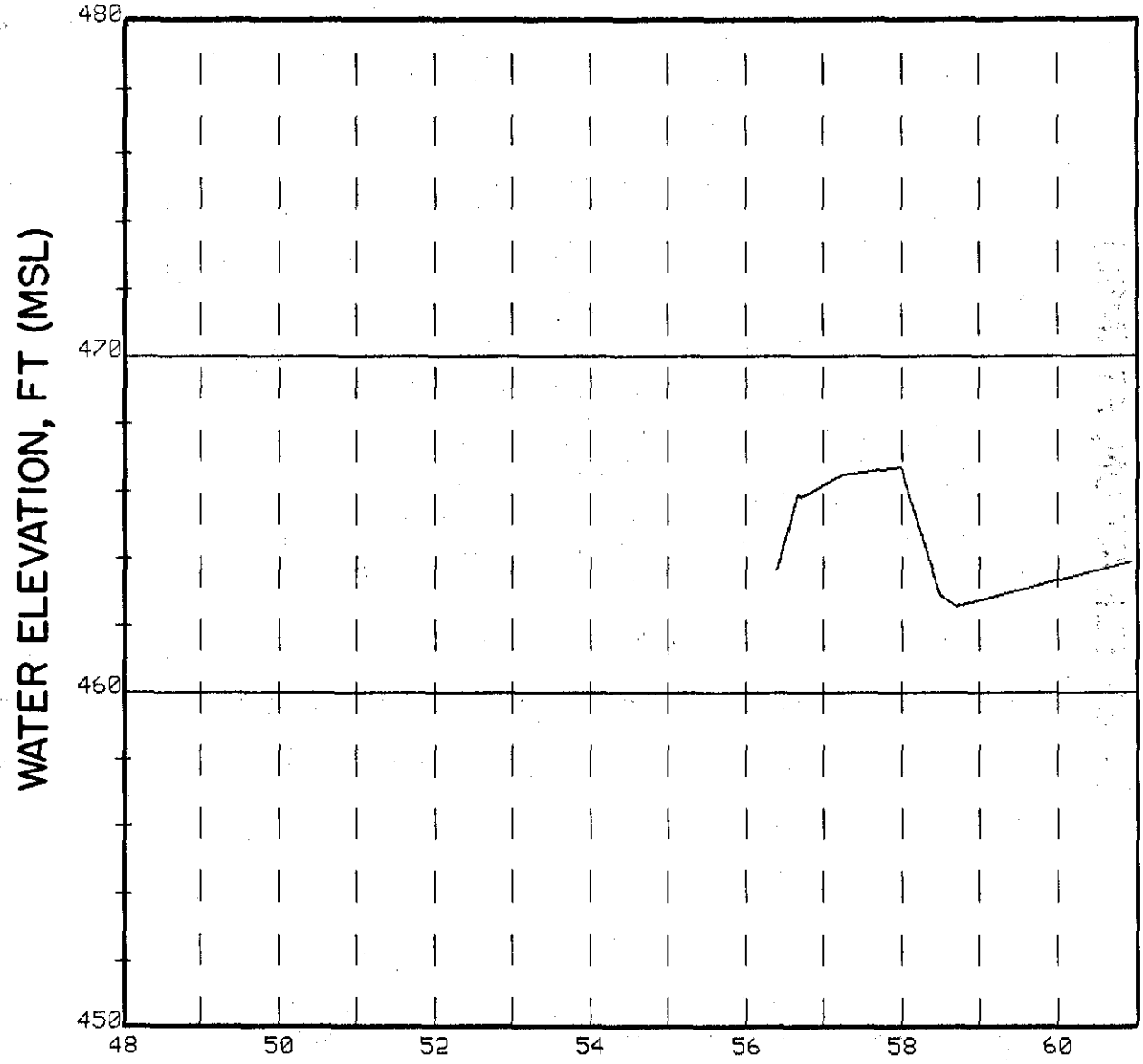

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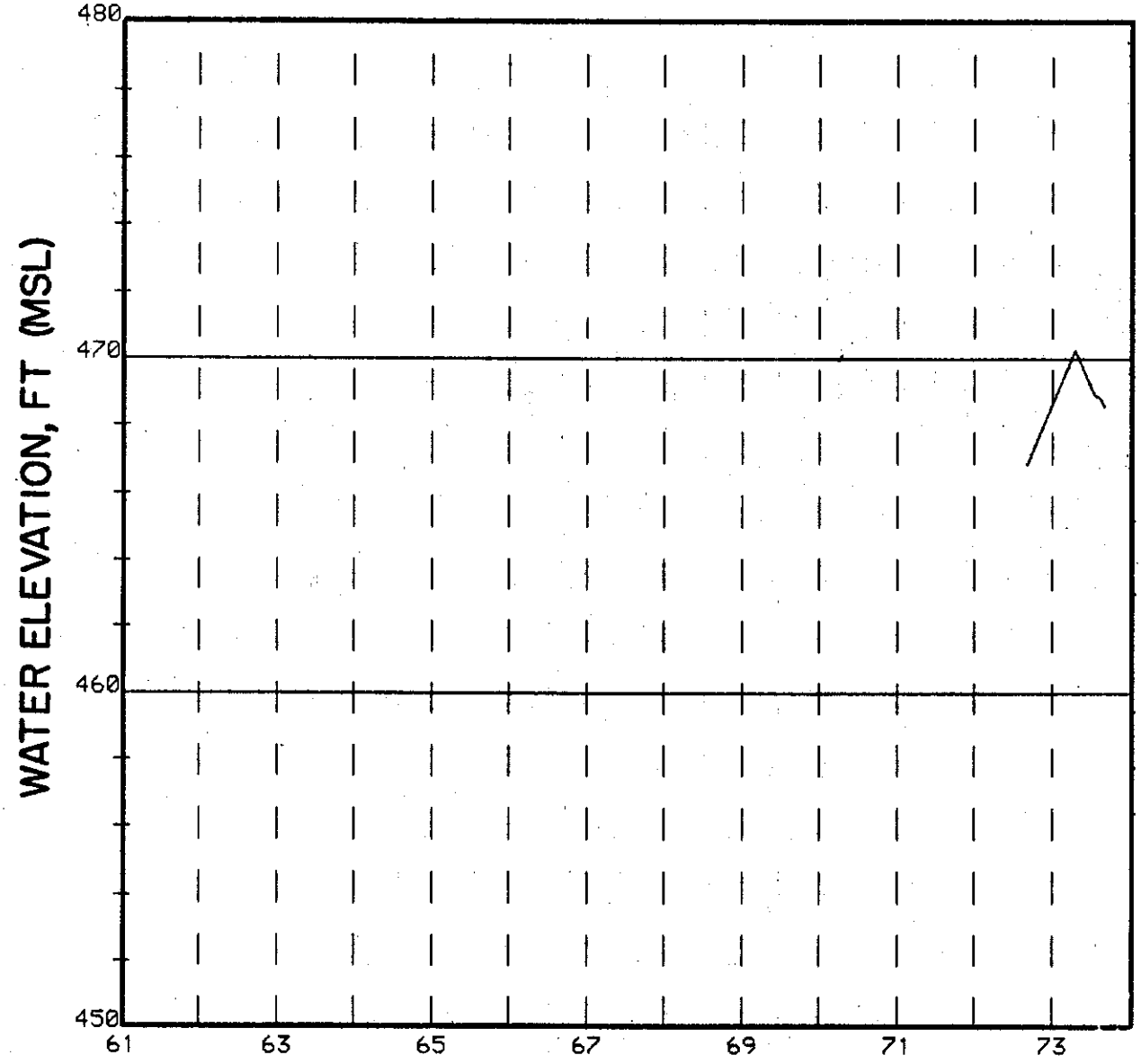

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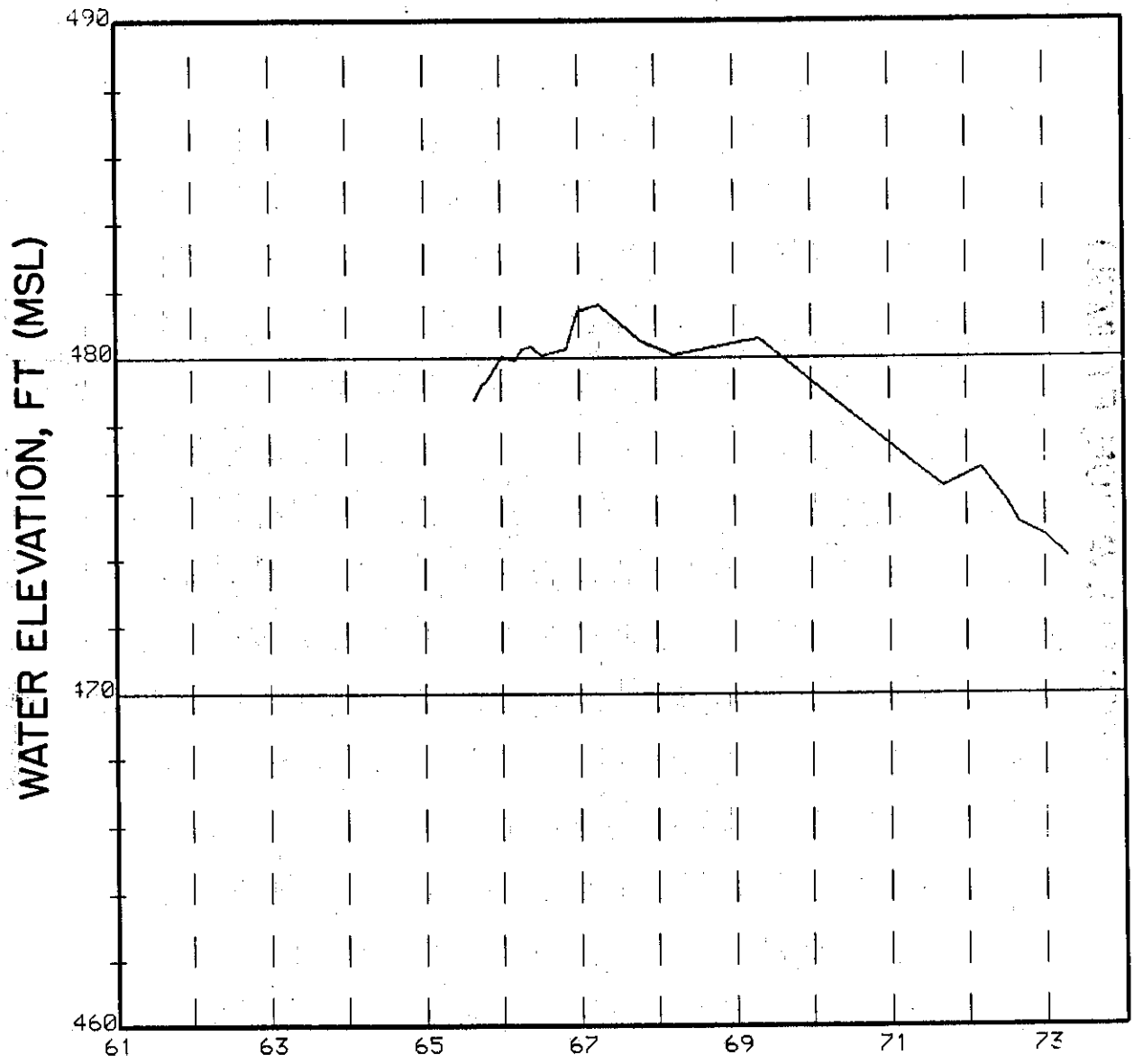

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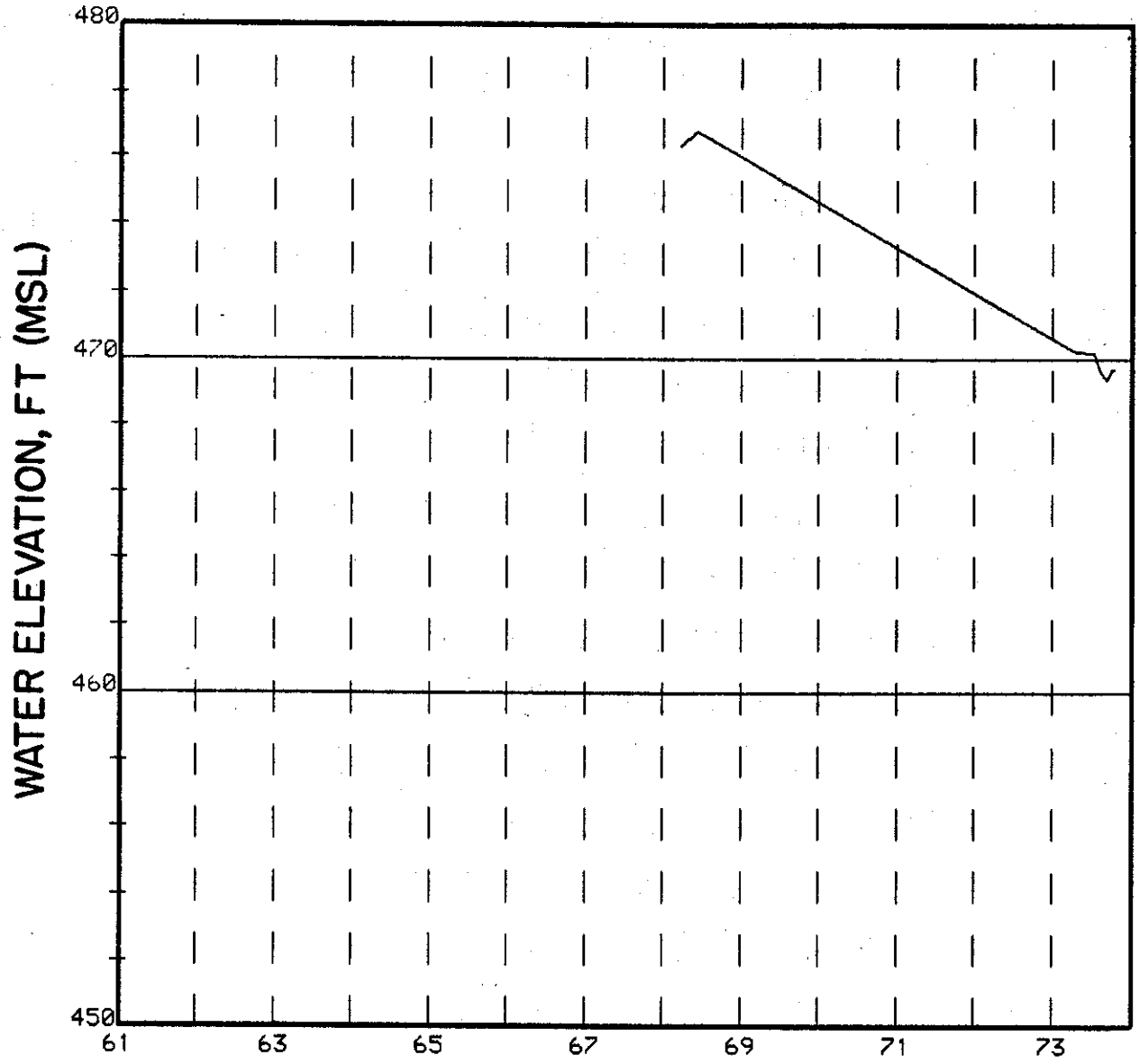

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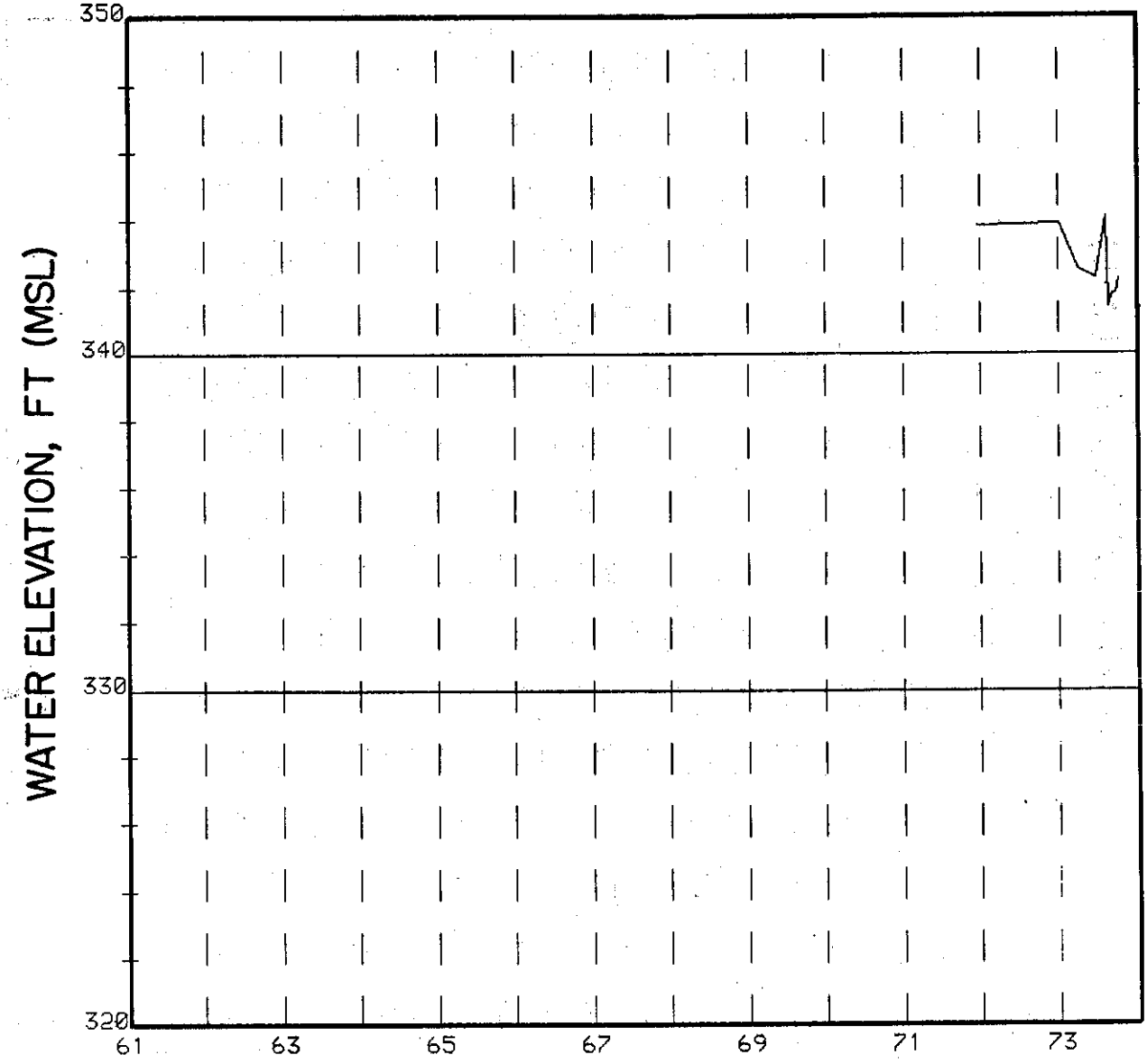

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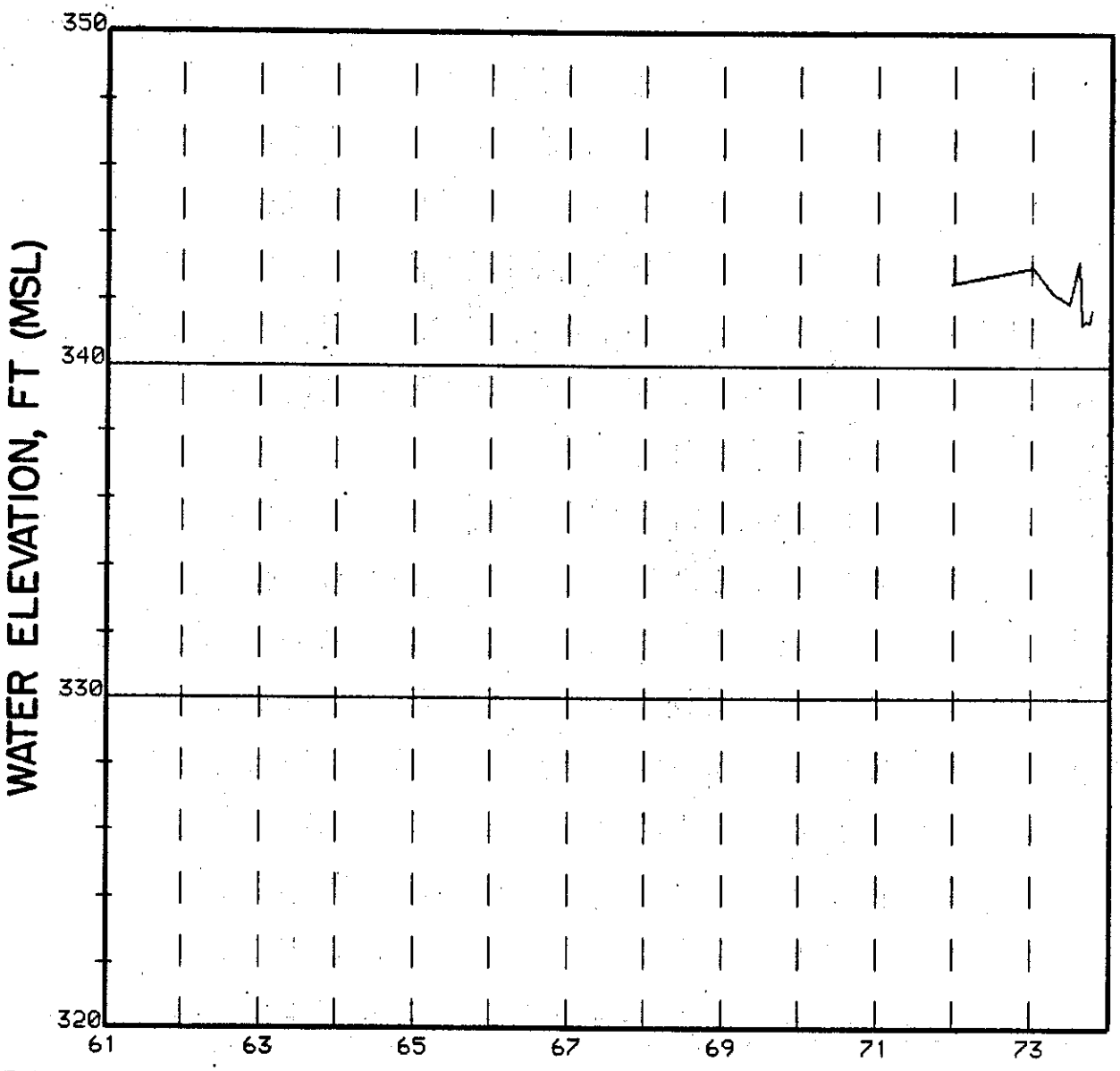

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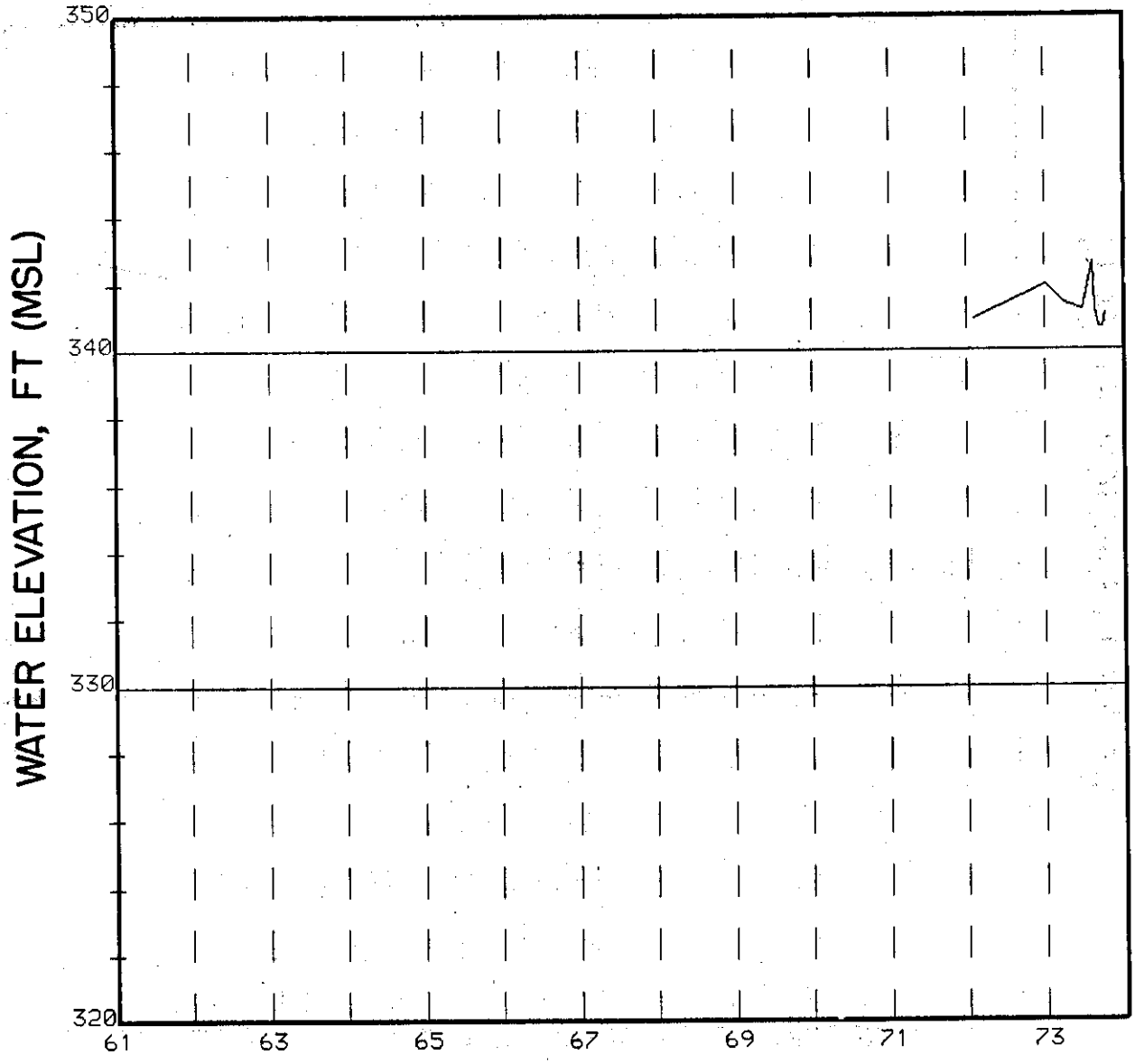

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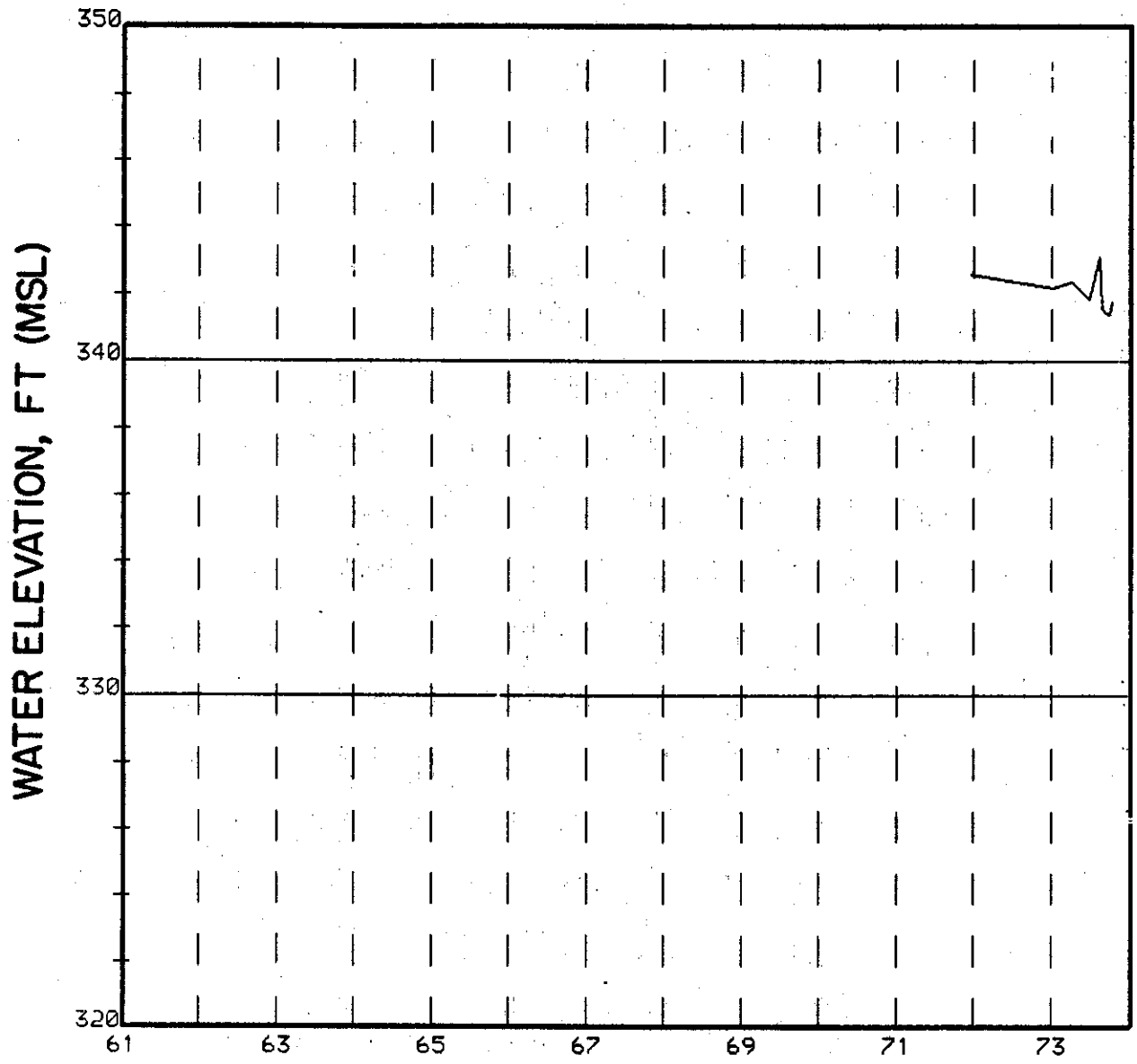

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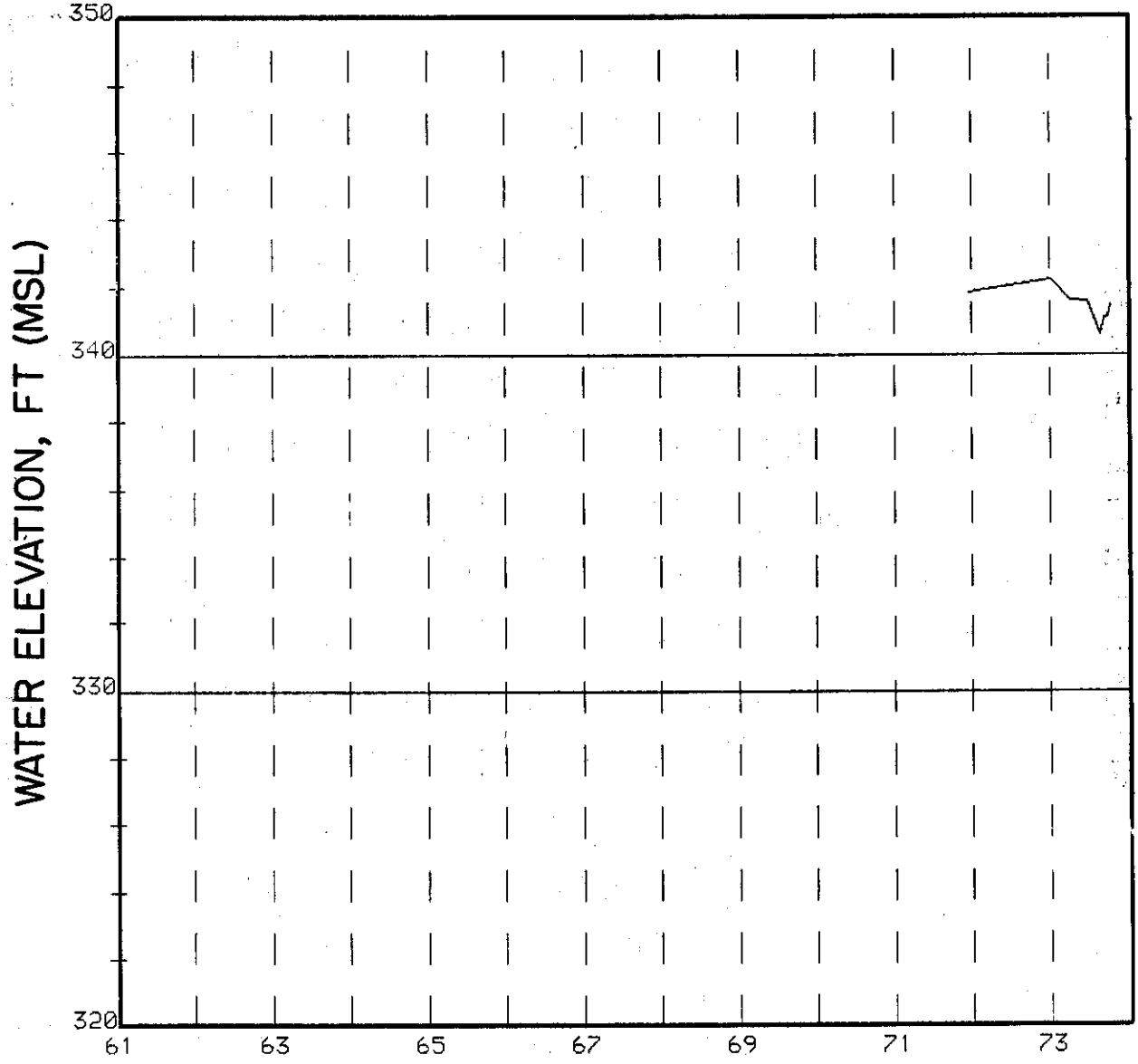

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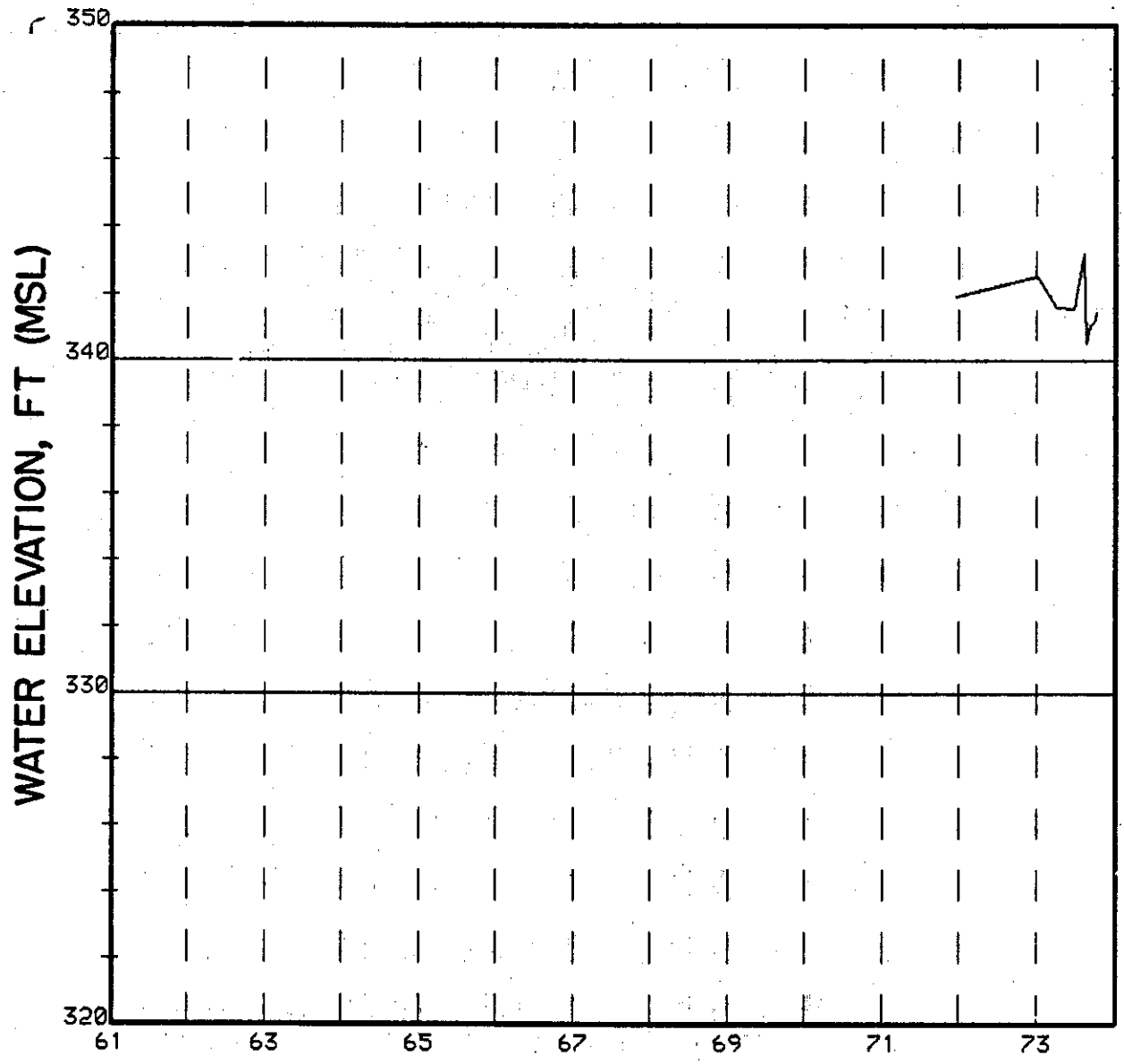

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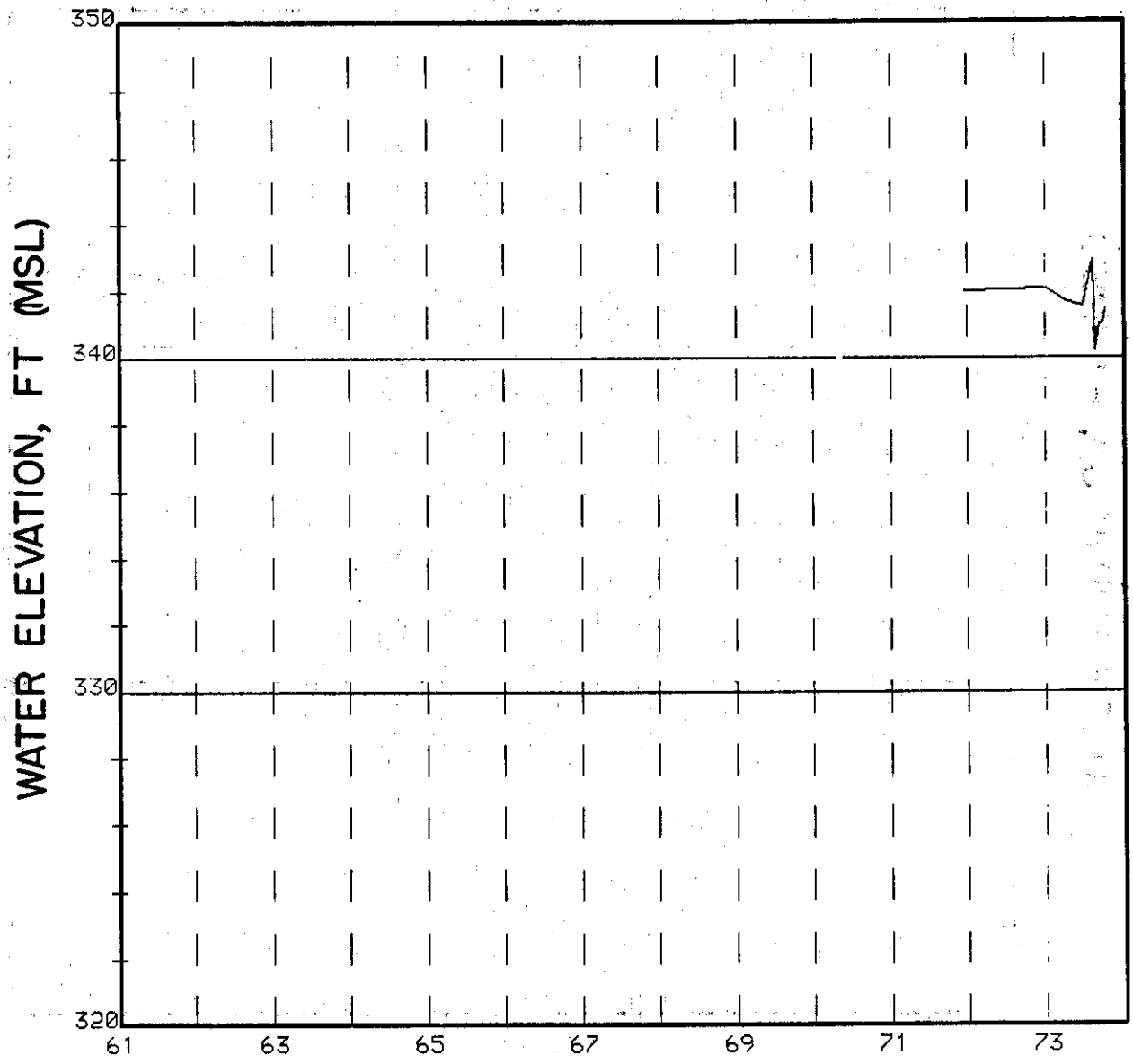

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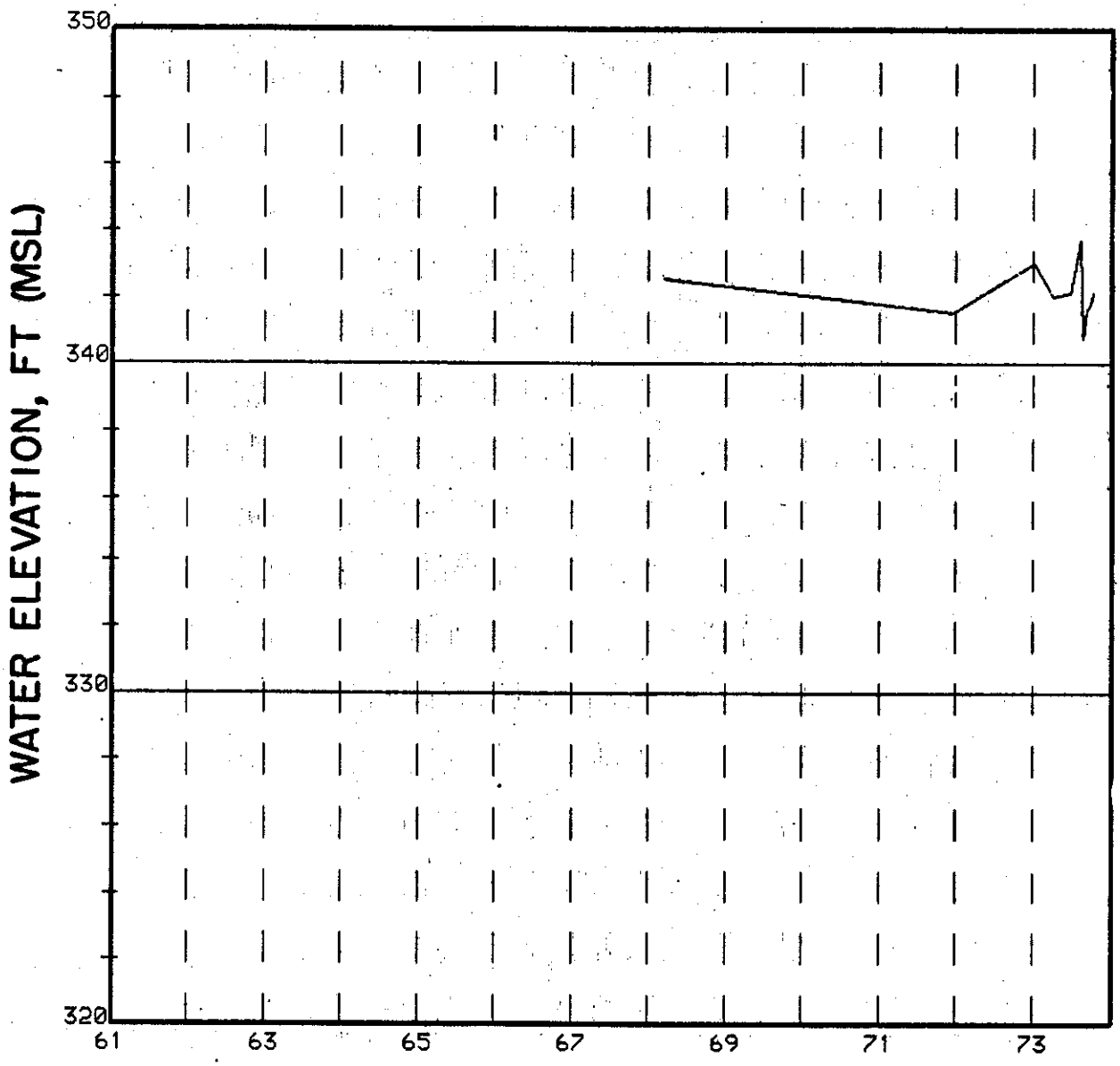

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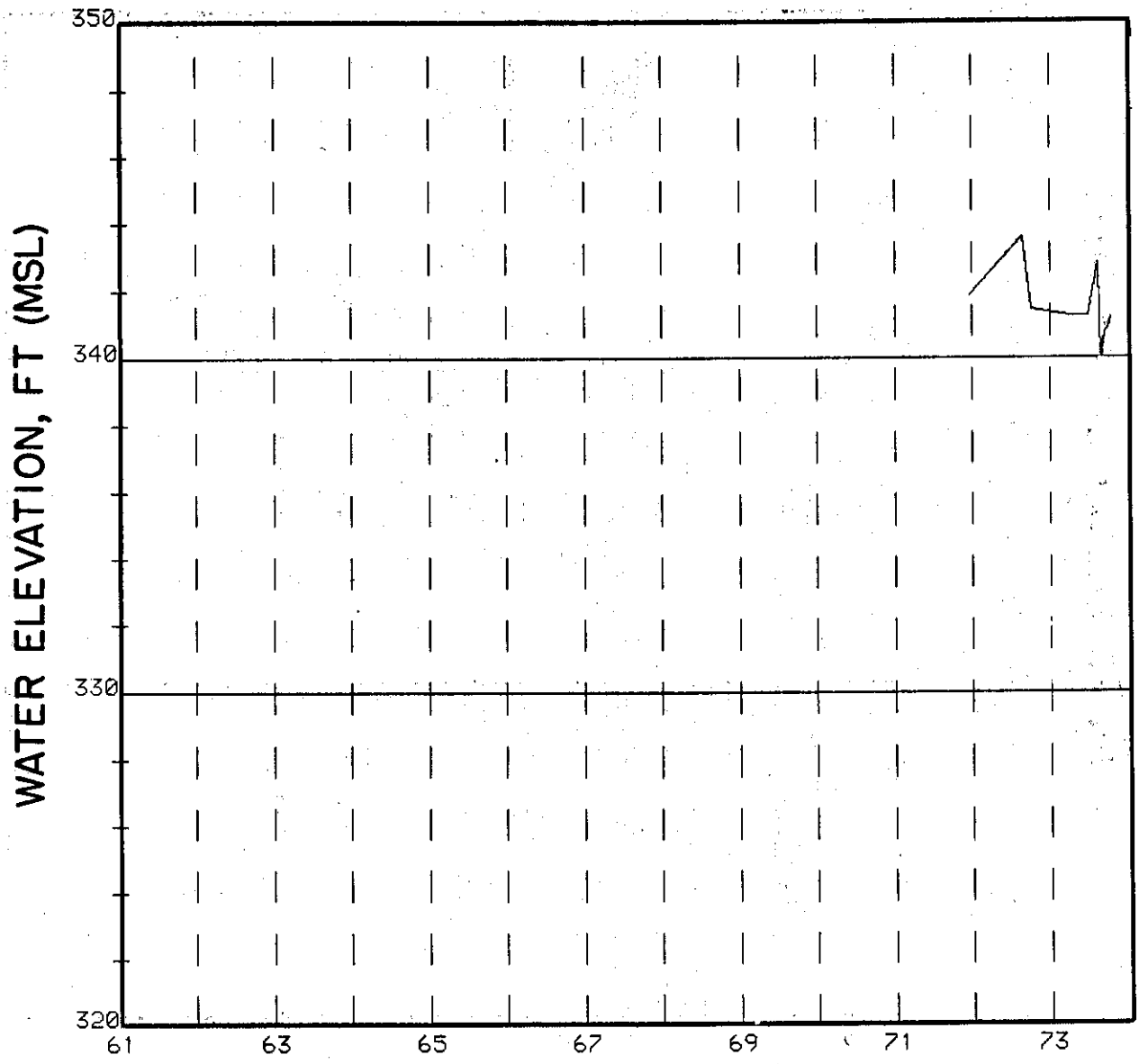

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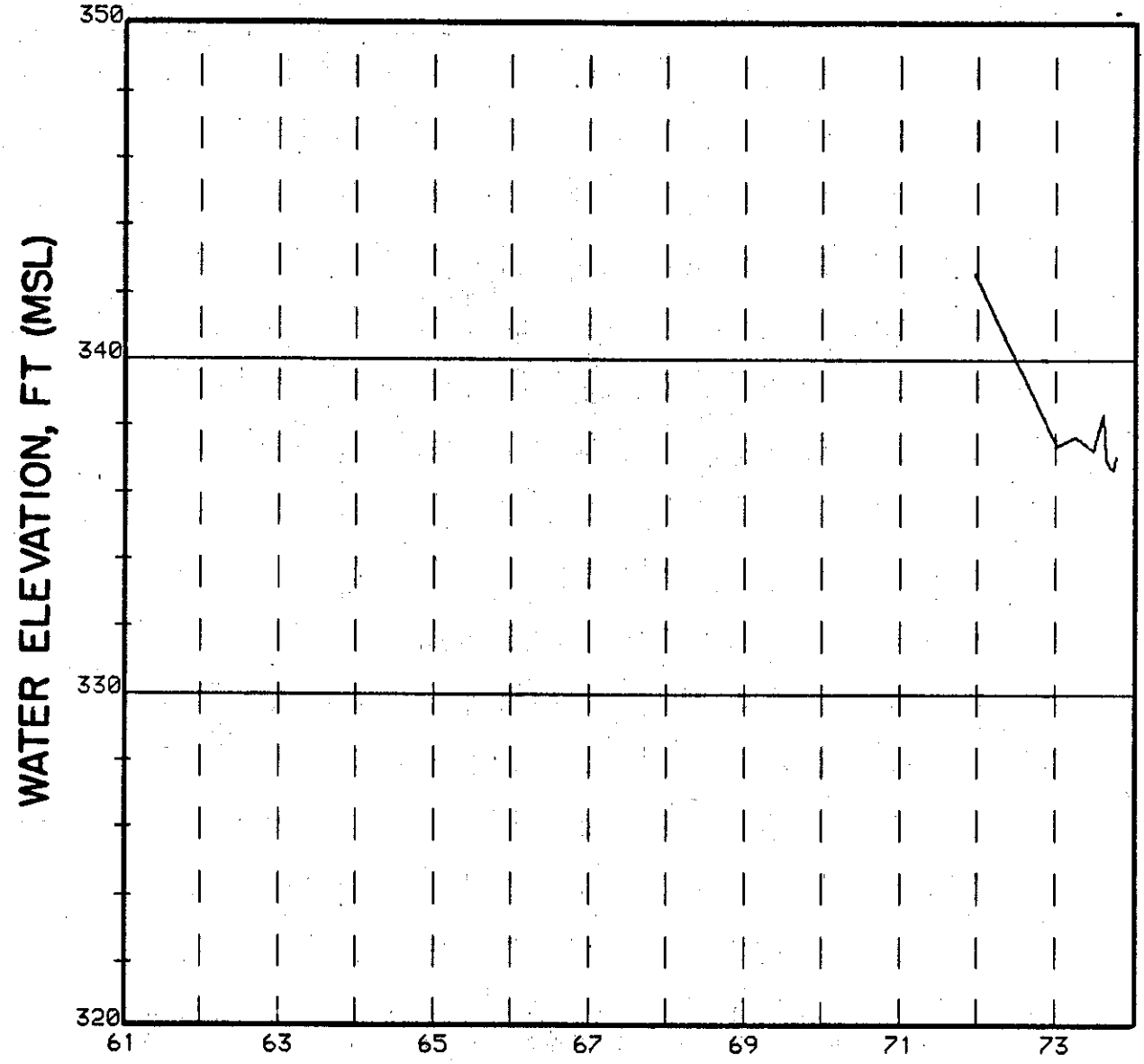

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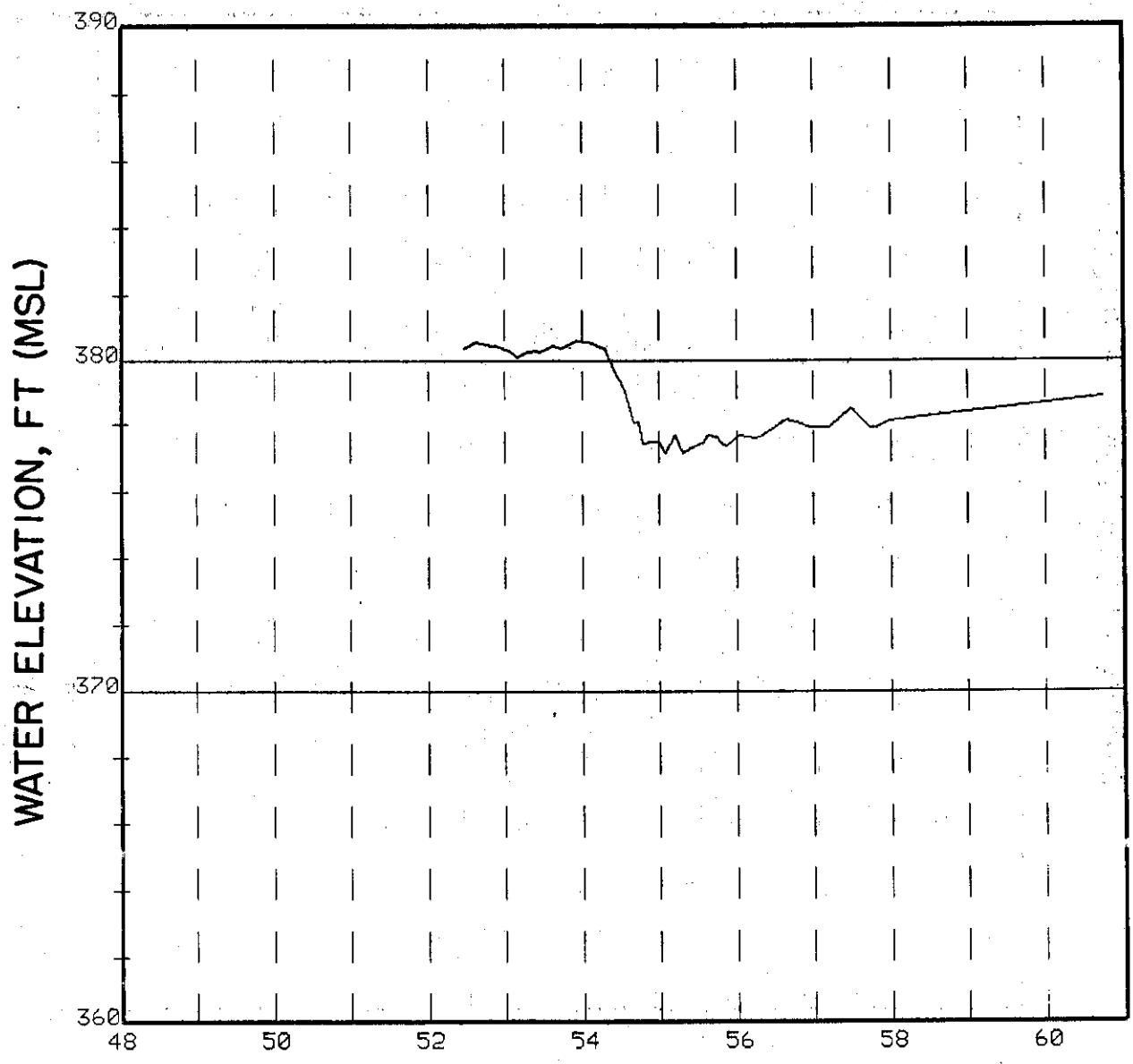

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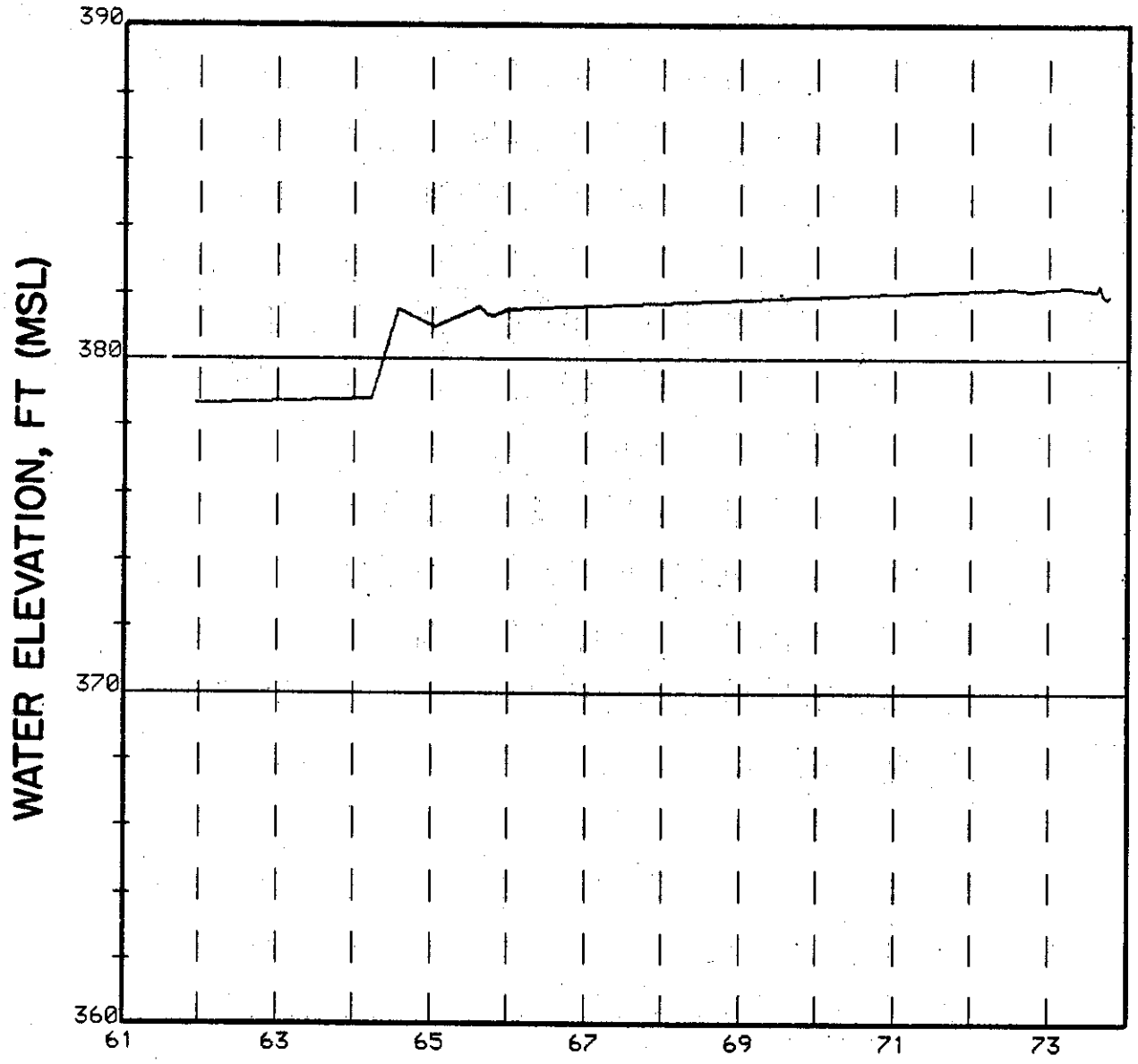

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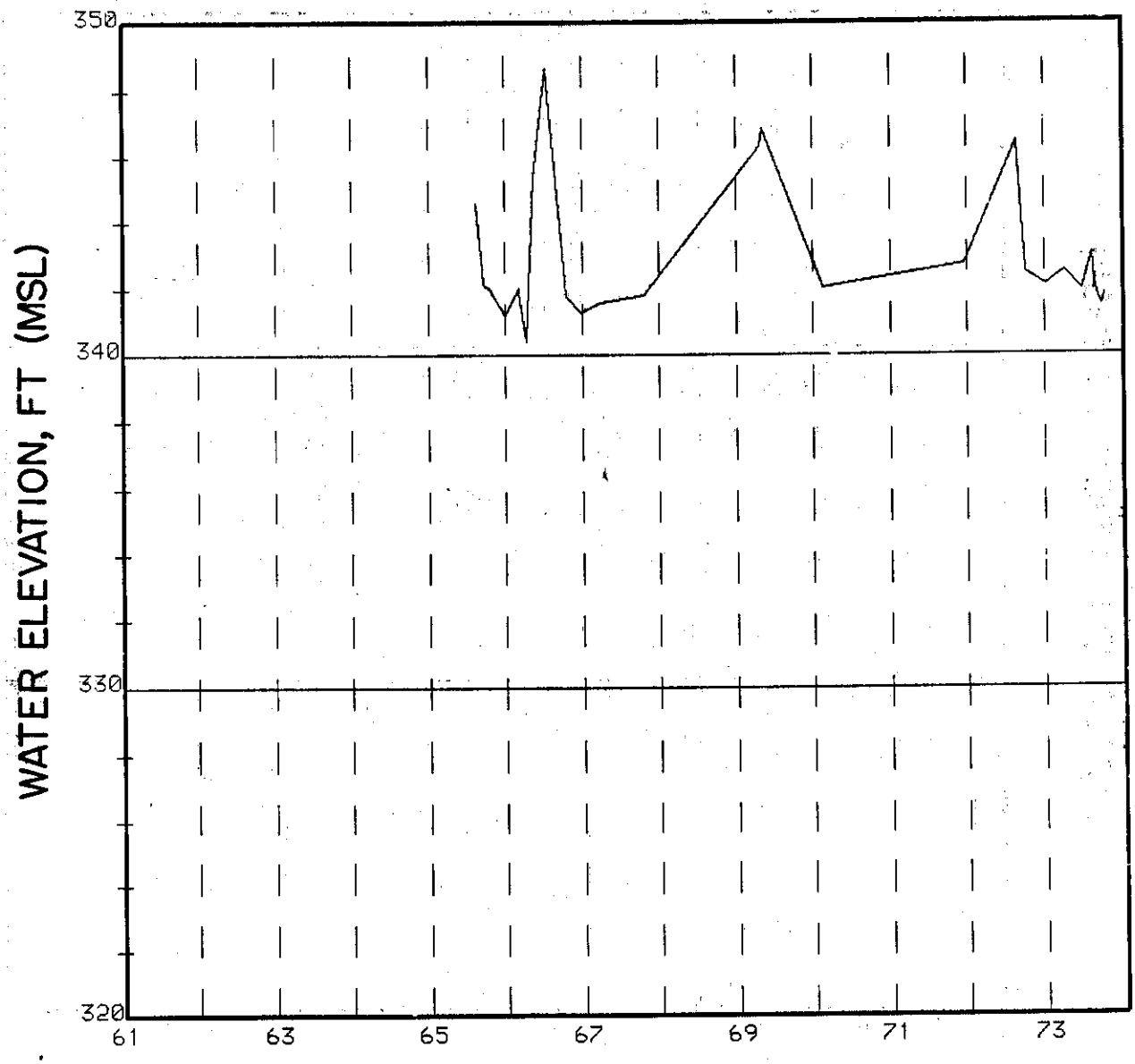

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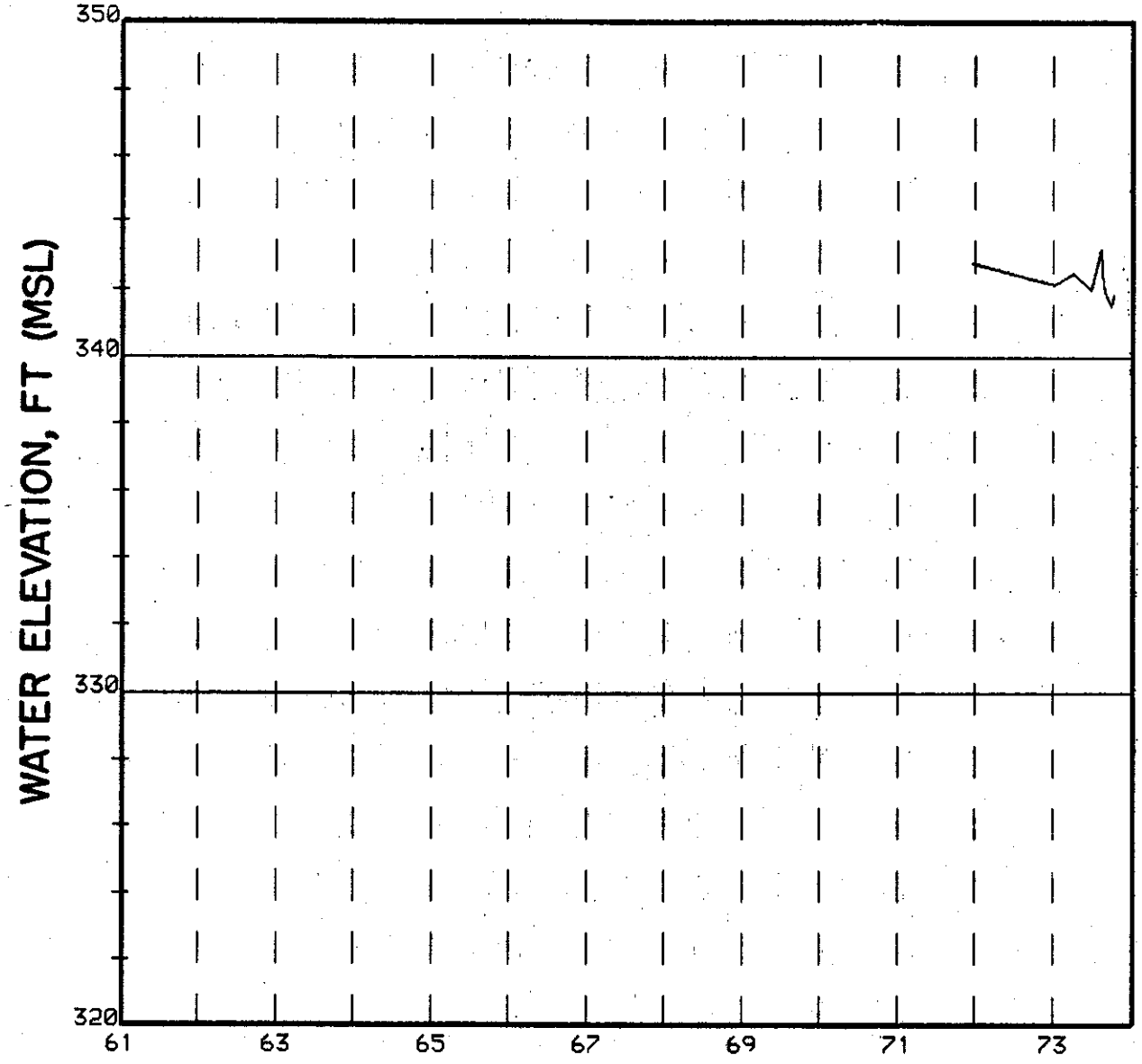

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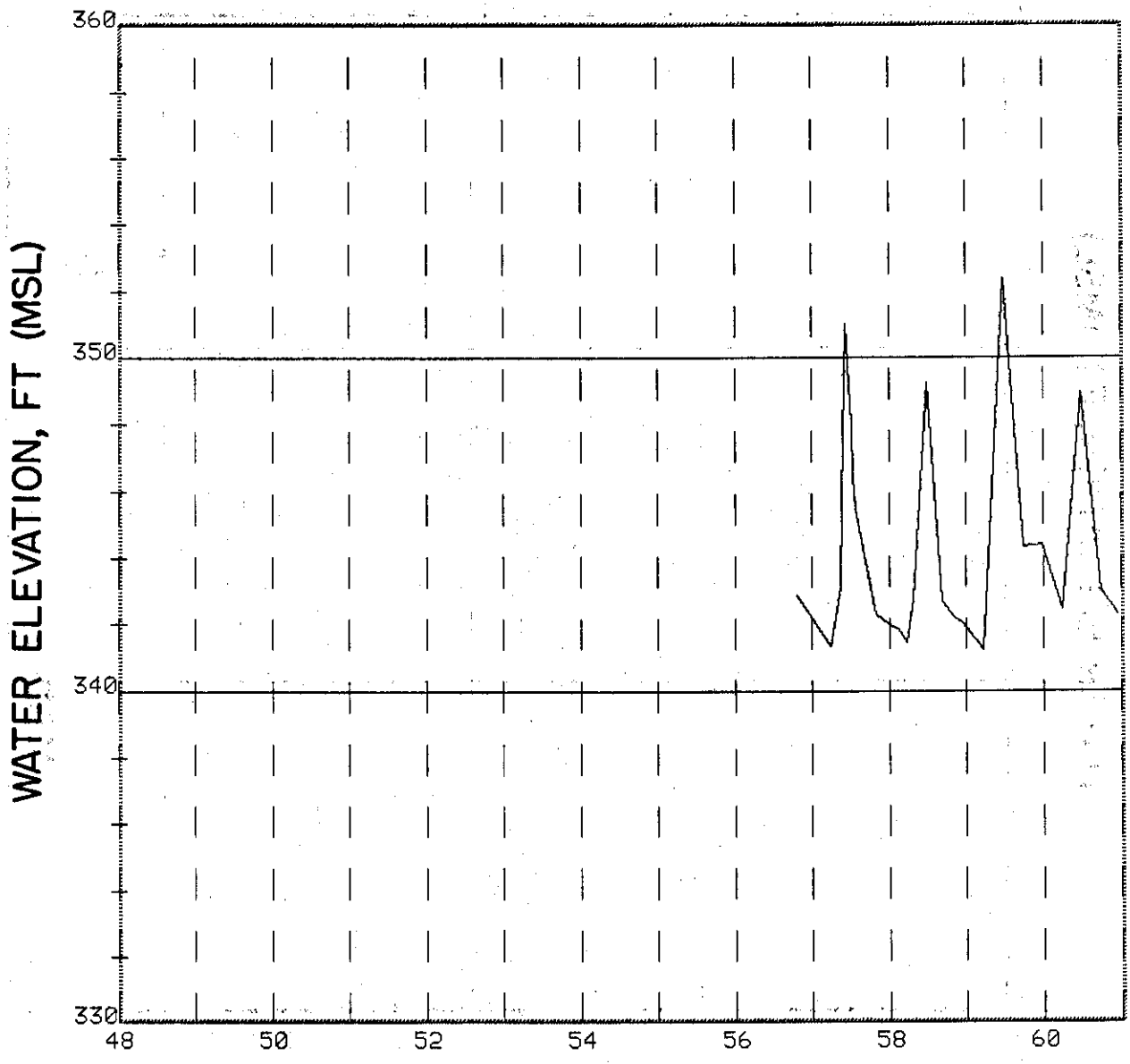

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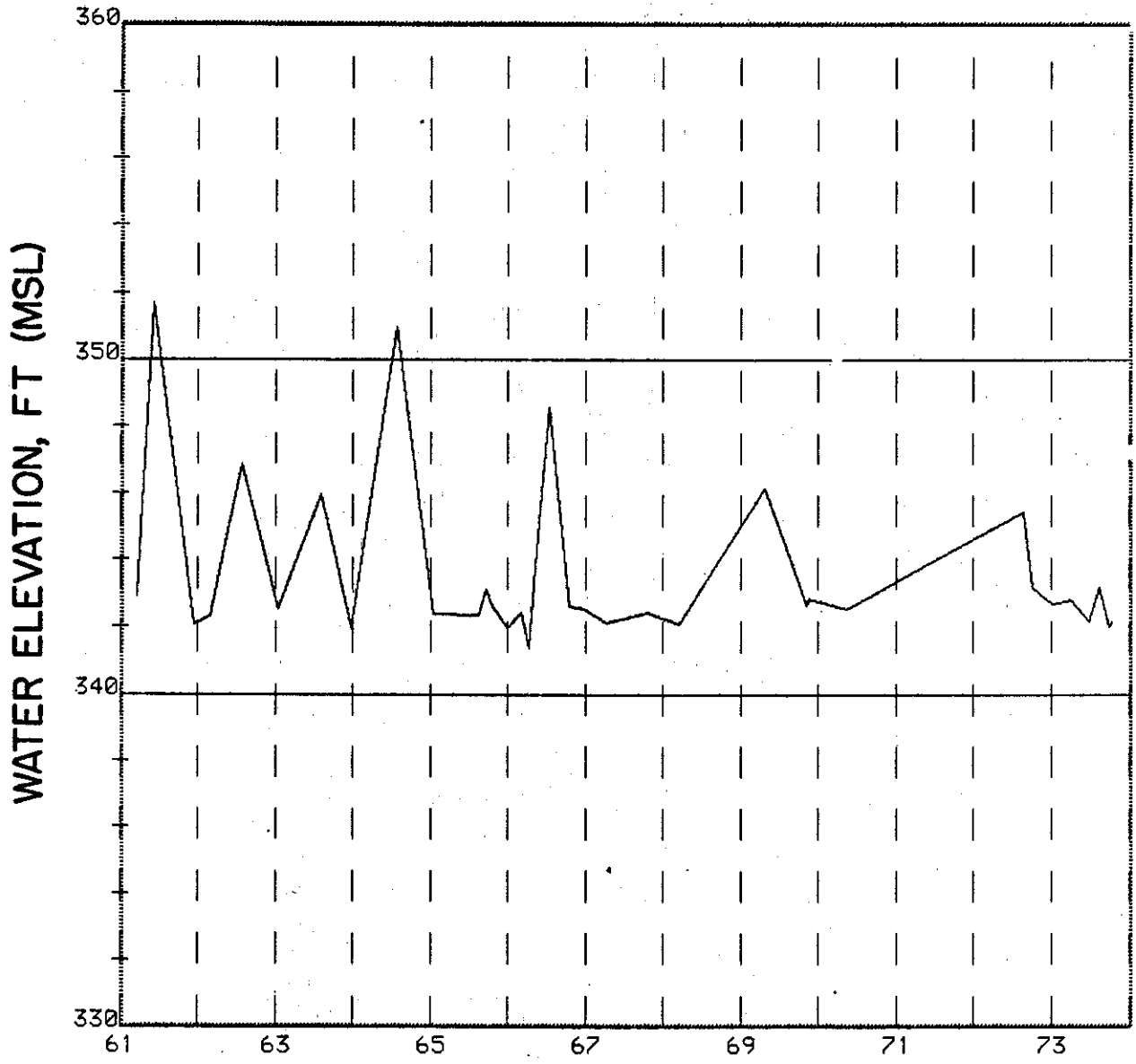
CASING ELEVATION = 396.07



WELL NUMBER 399 8 2

CASING ELEVATION = 396.07

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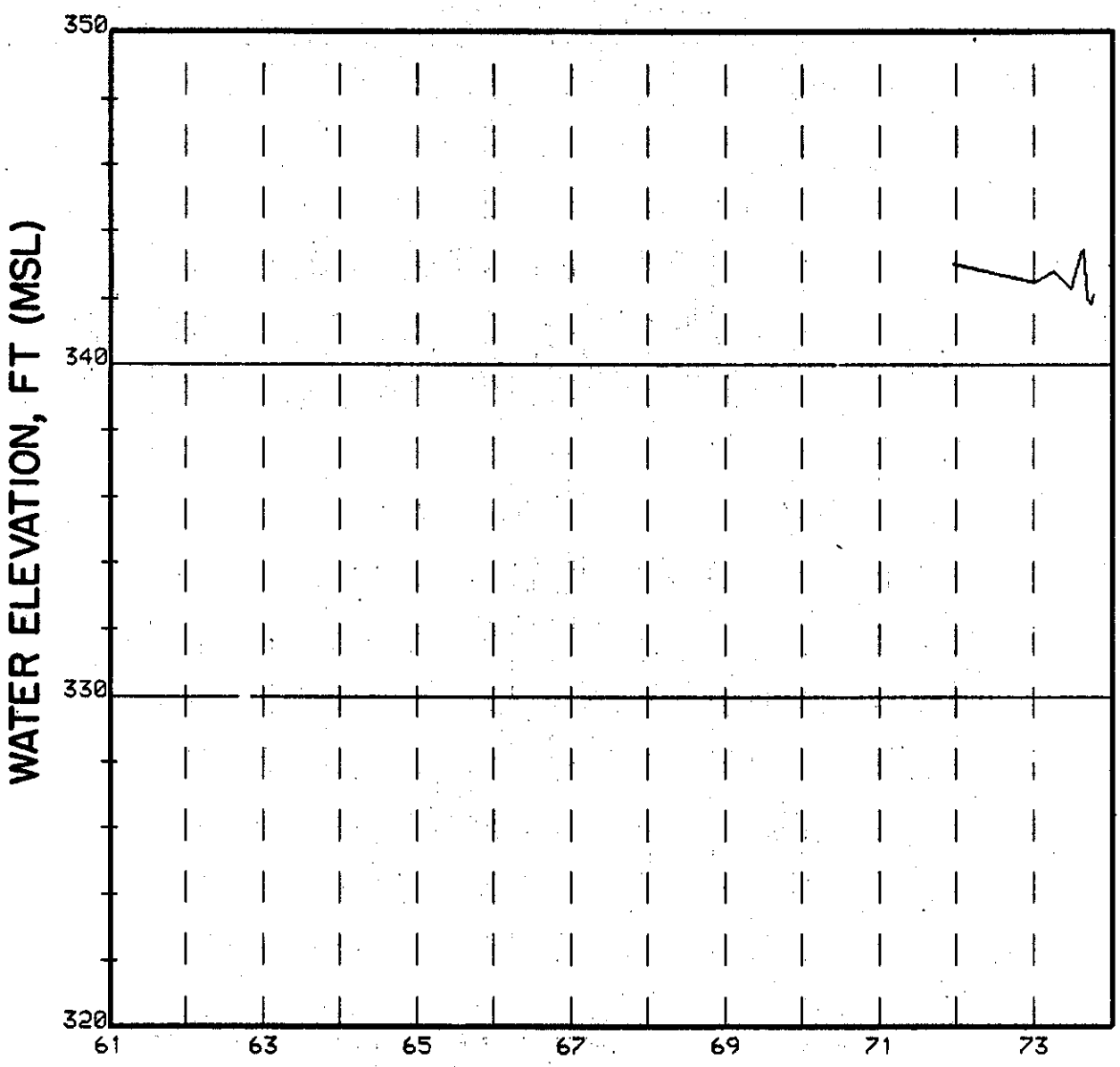

WELL NUMBER 399 8 3

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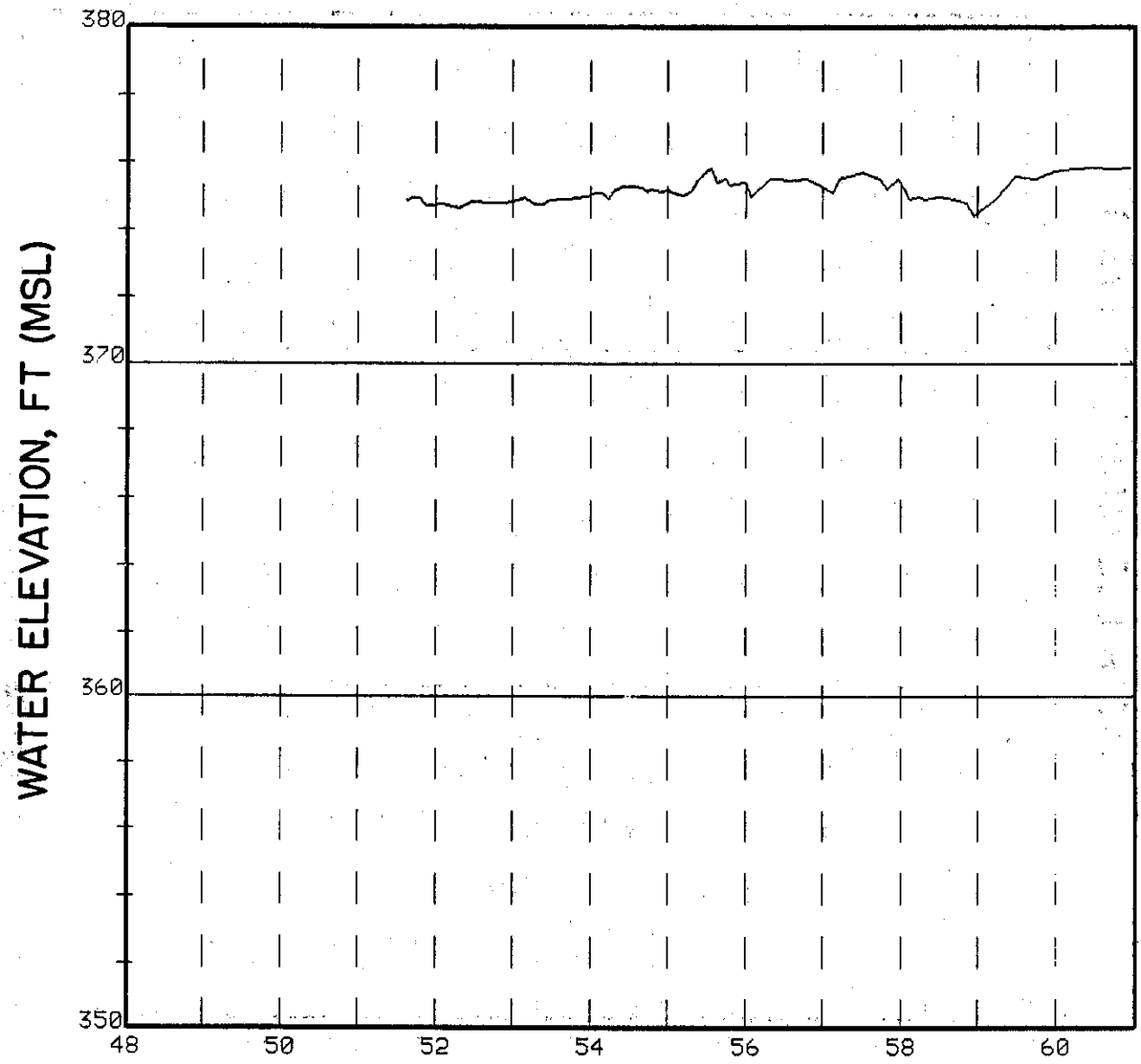
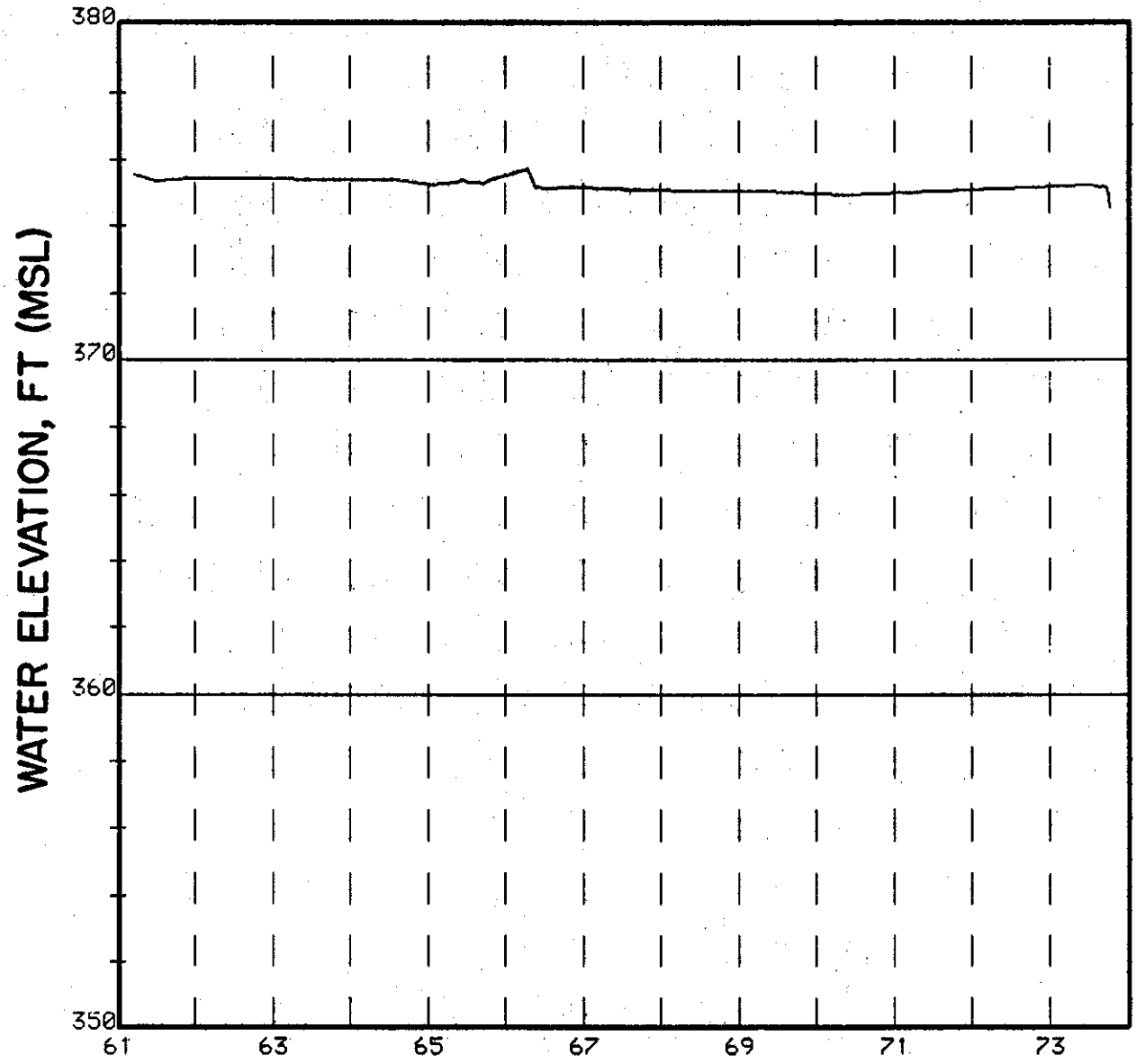


WELL NUMBER 699 S31 1

CASING ELEVATION = 460.11



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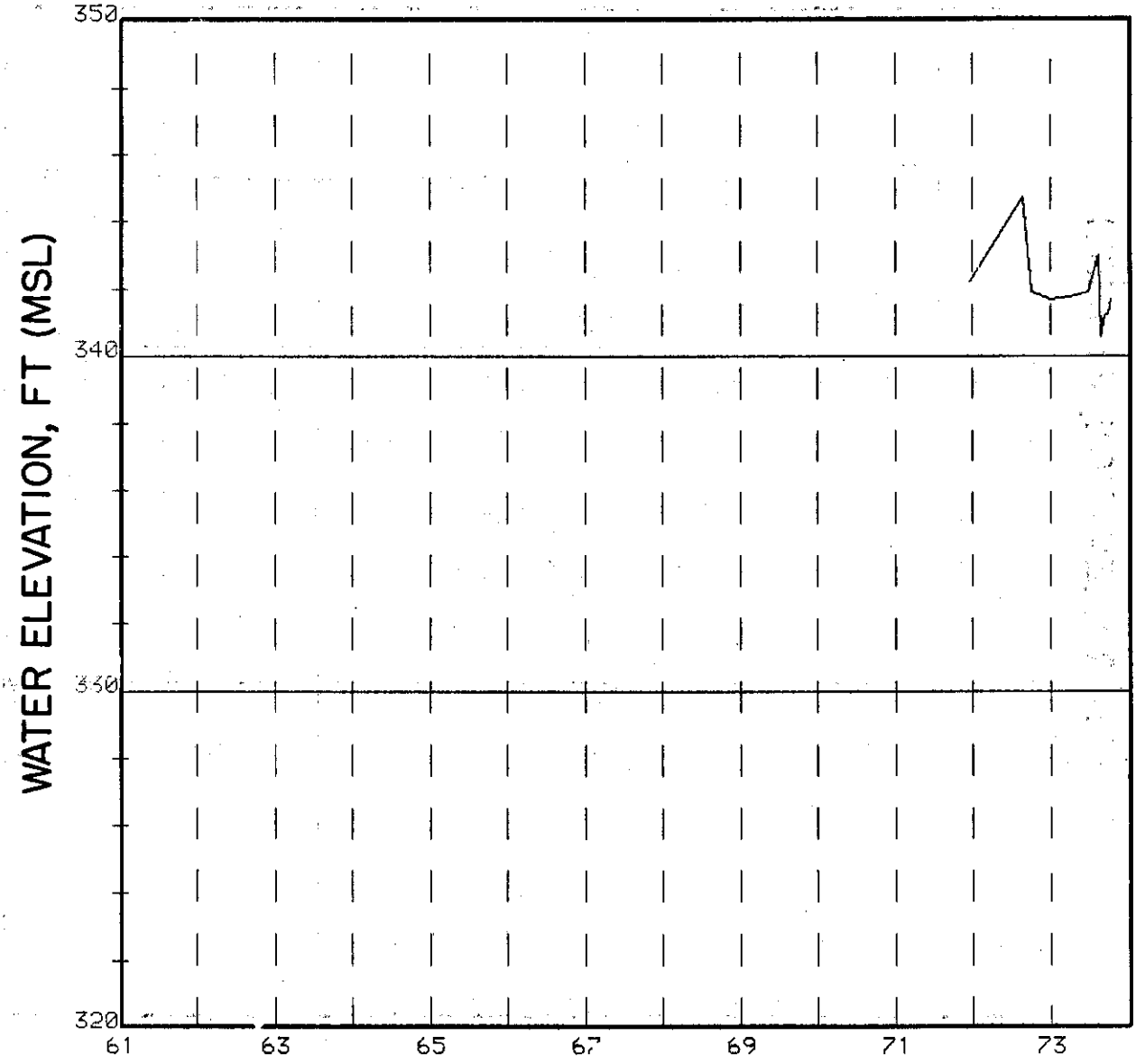
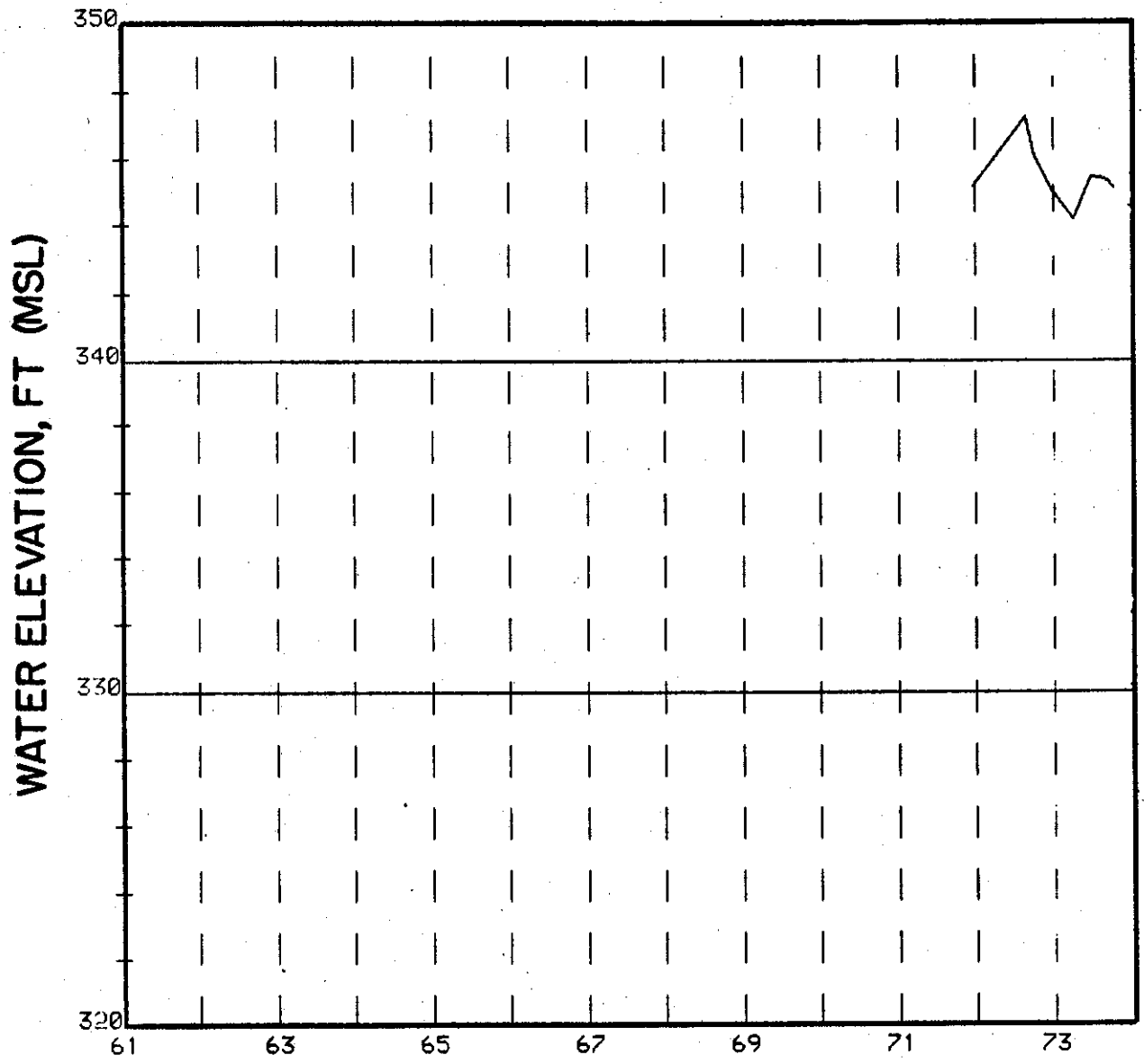


WELL NUMBER 699 S30E15A

CASING ELEVATION = 400.39



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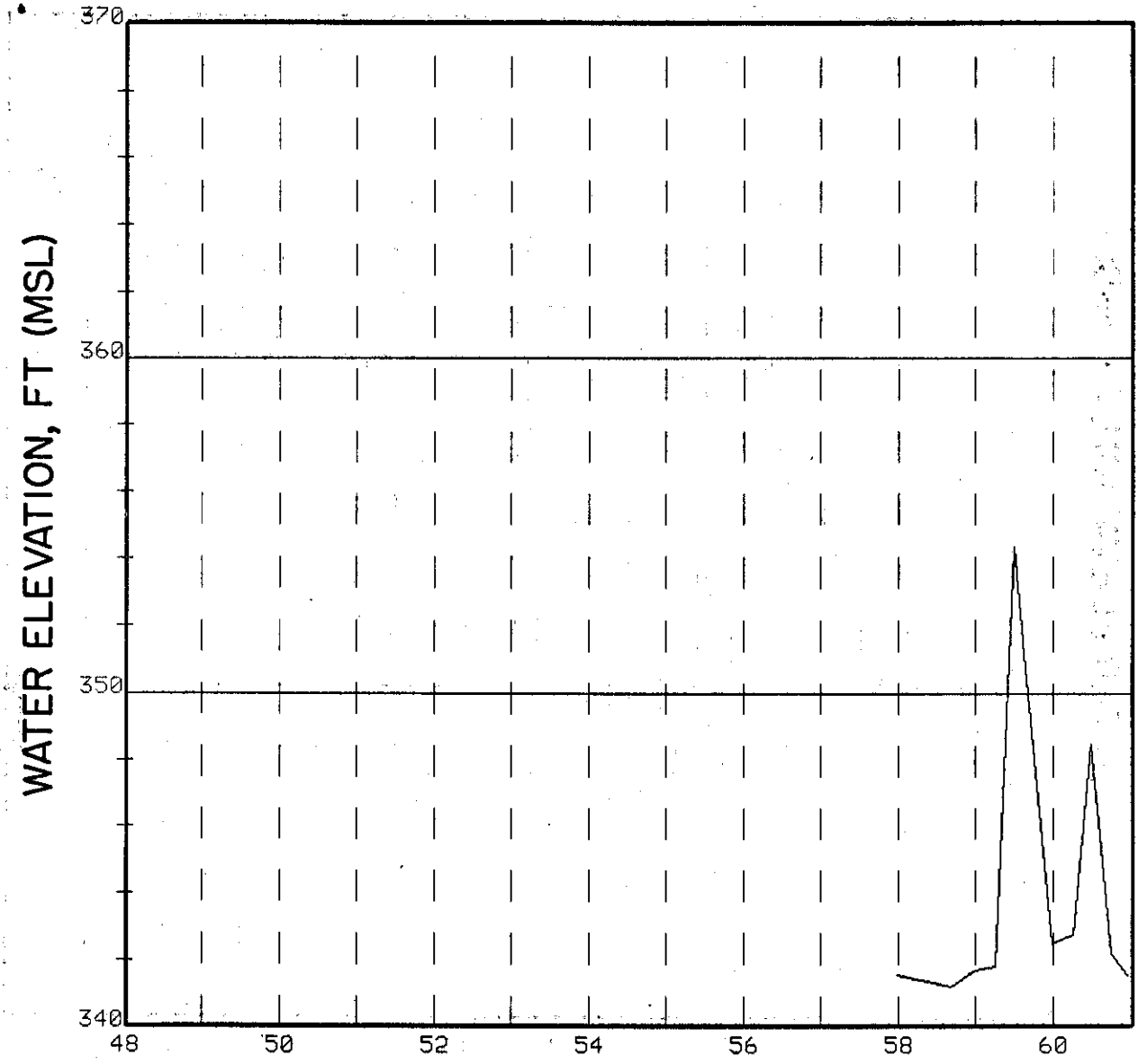

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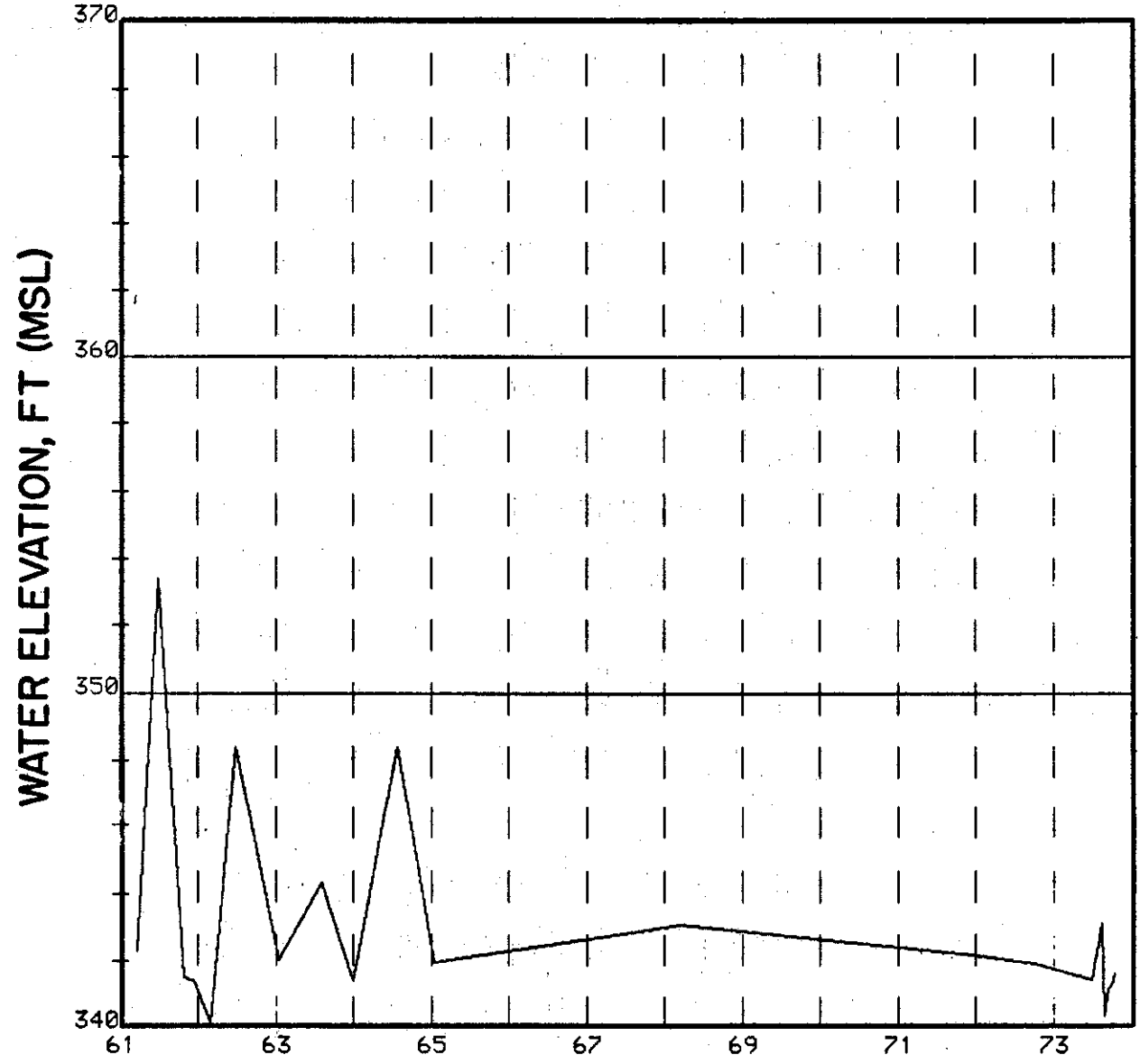
CASING ELEVATION = 400.05



WELL NUMBER 699 S27 E14

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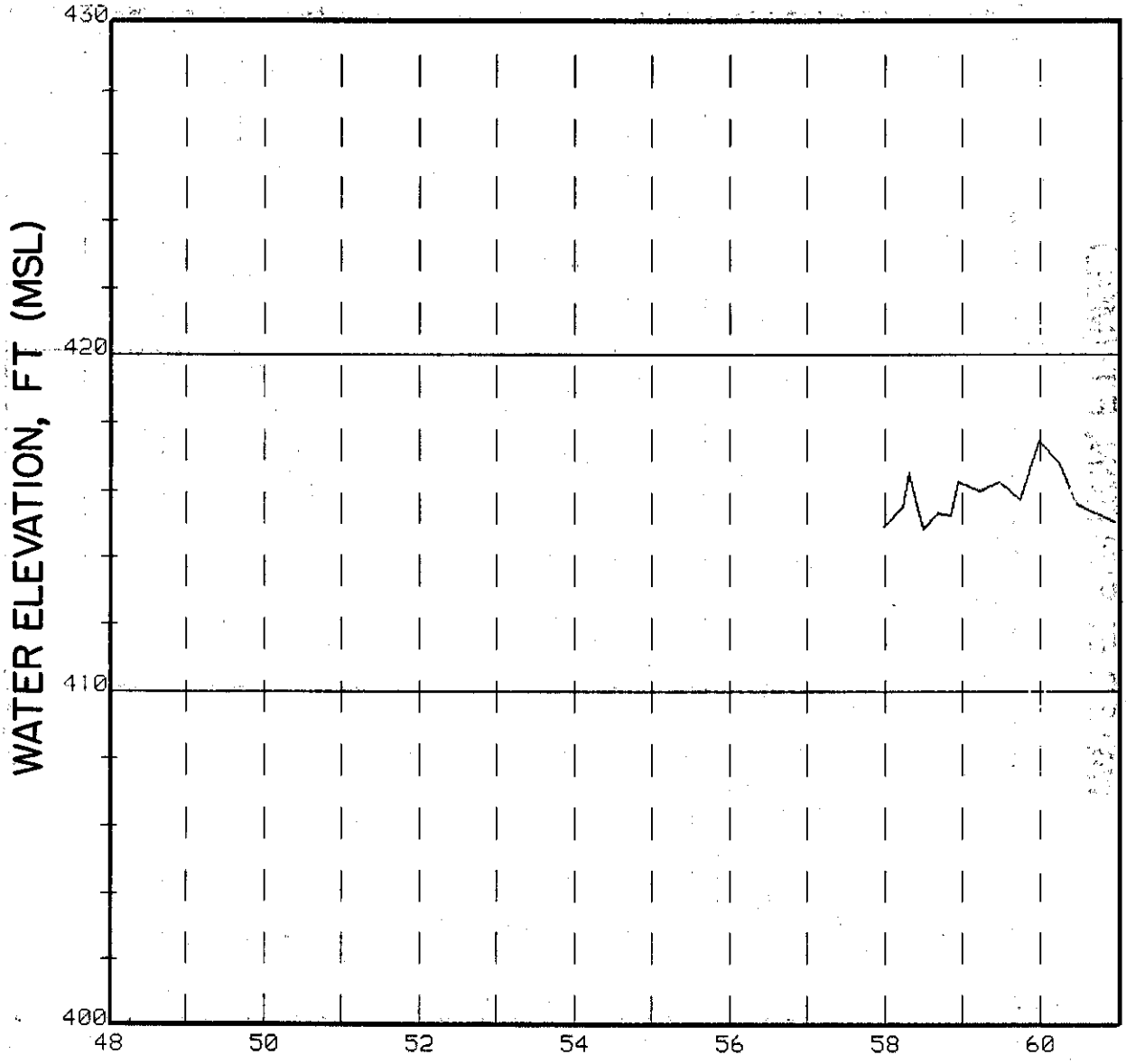

WELL NUMBER 699 S23 26

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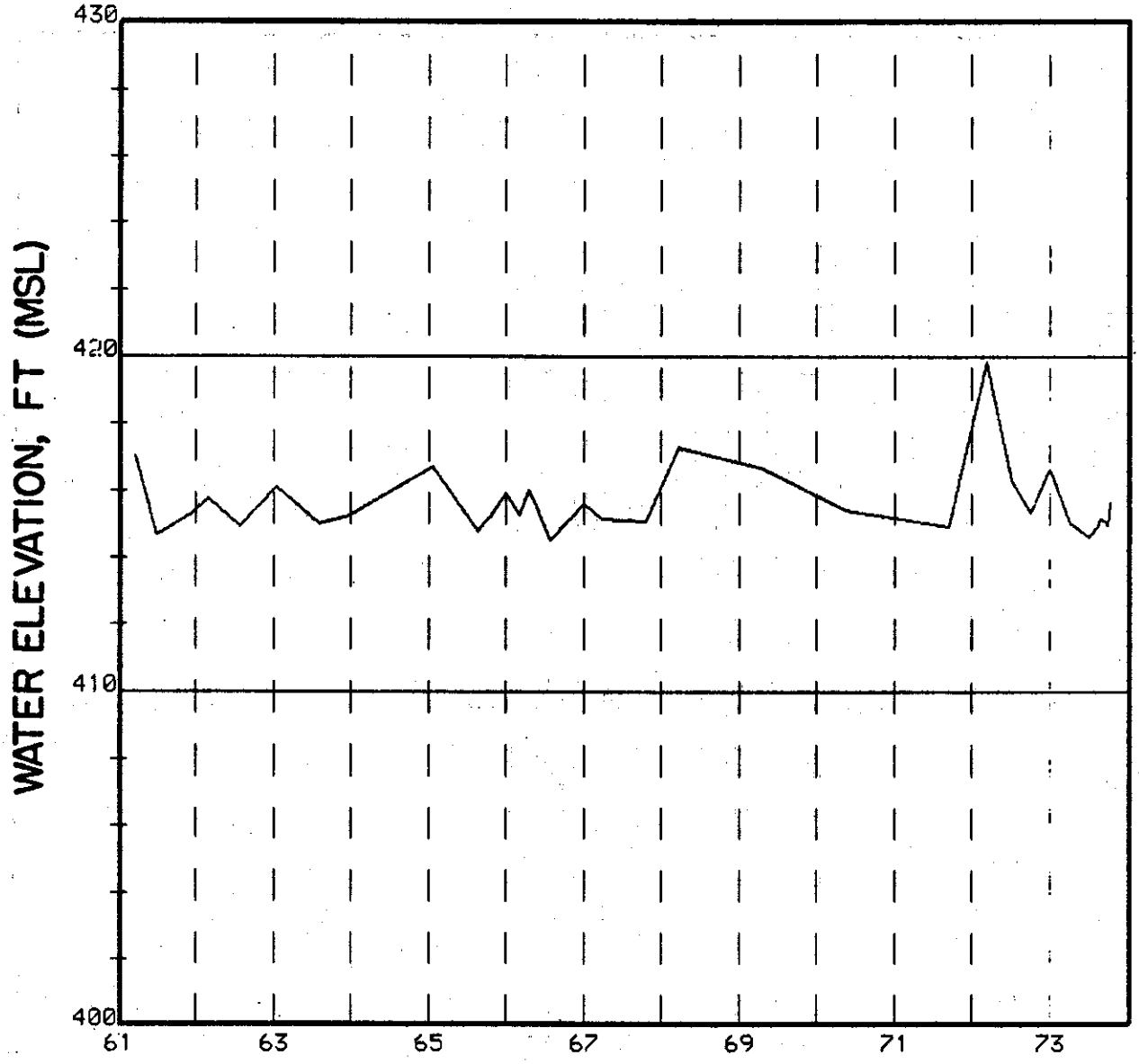

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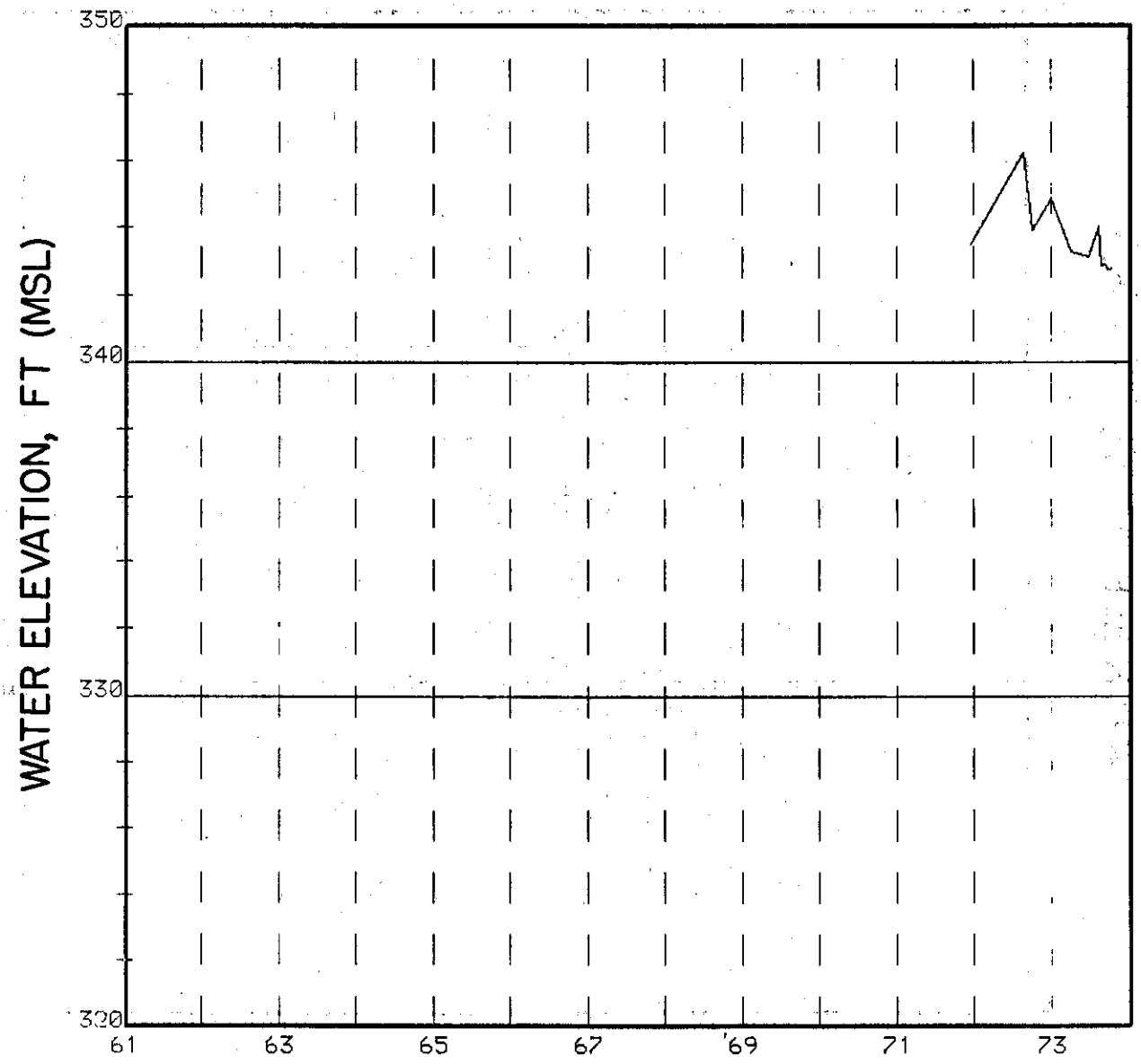

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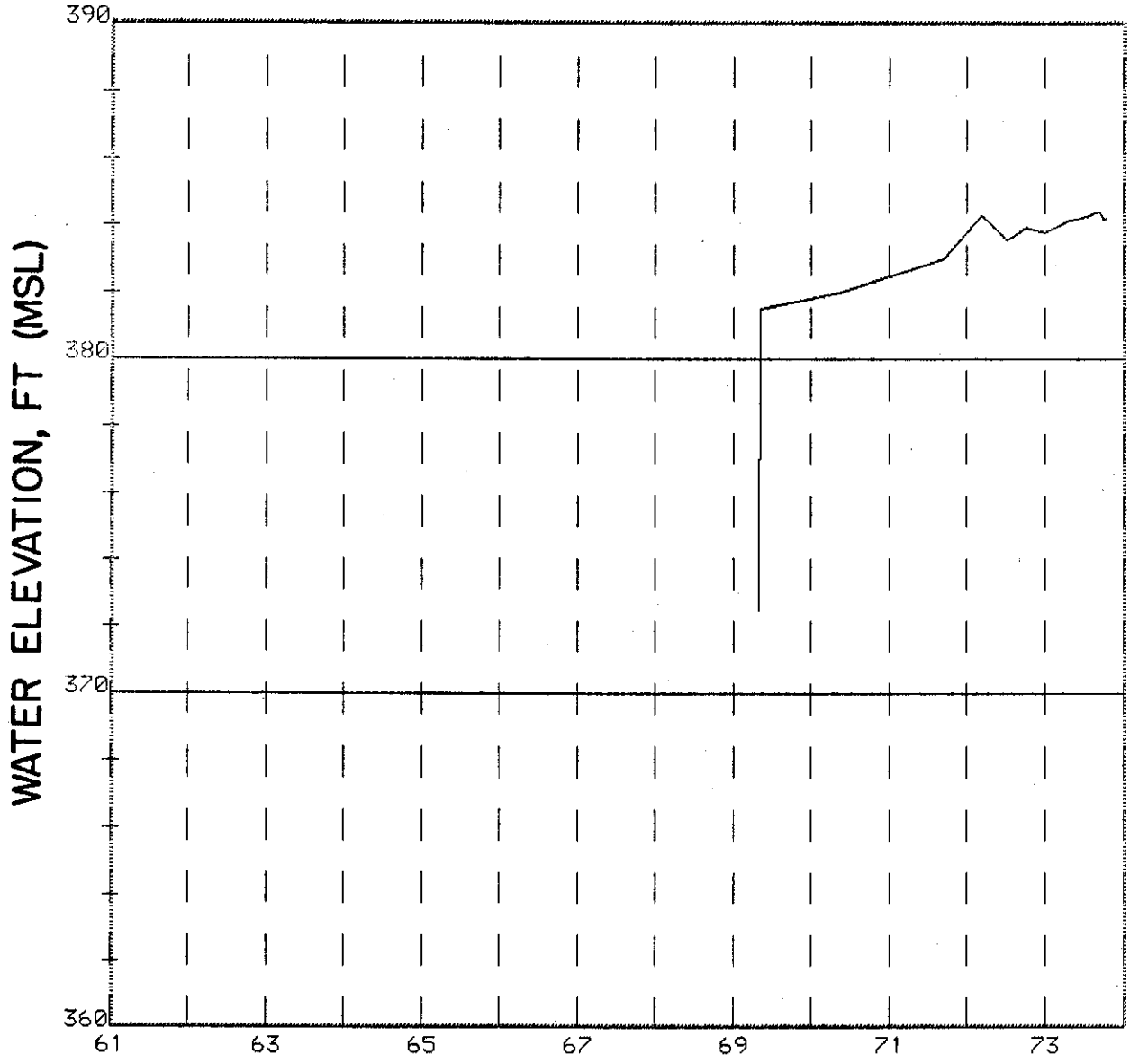

WELL NUMBER 699 S19 11

CASING ELEVATION = 483.74

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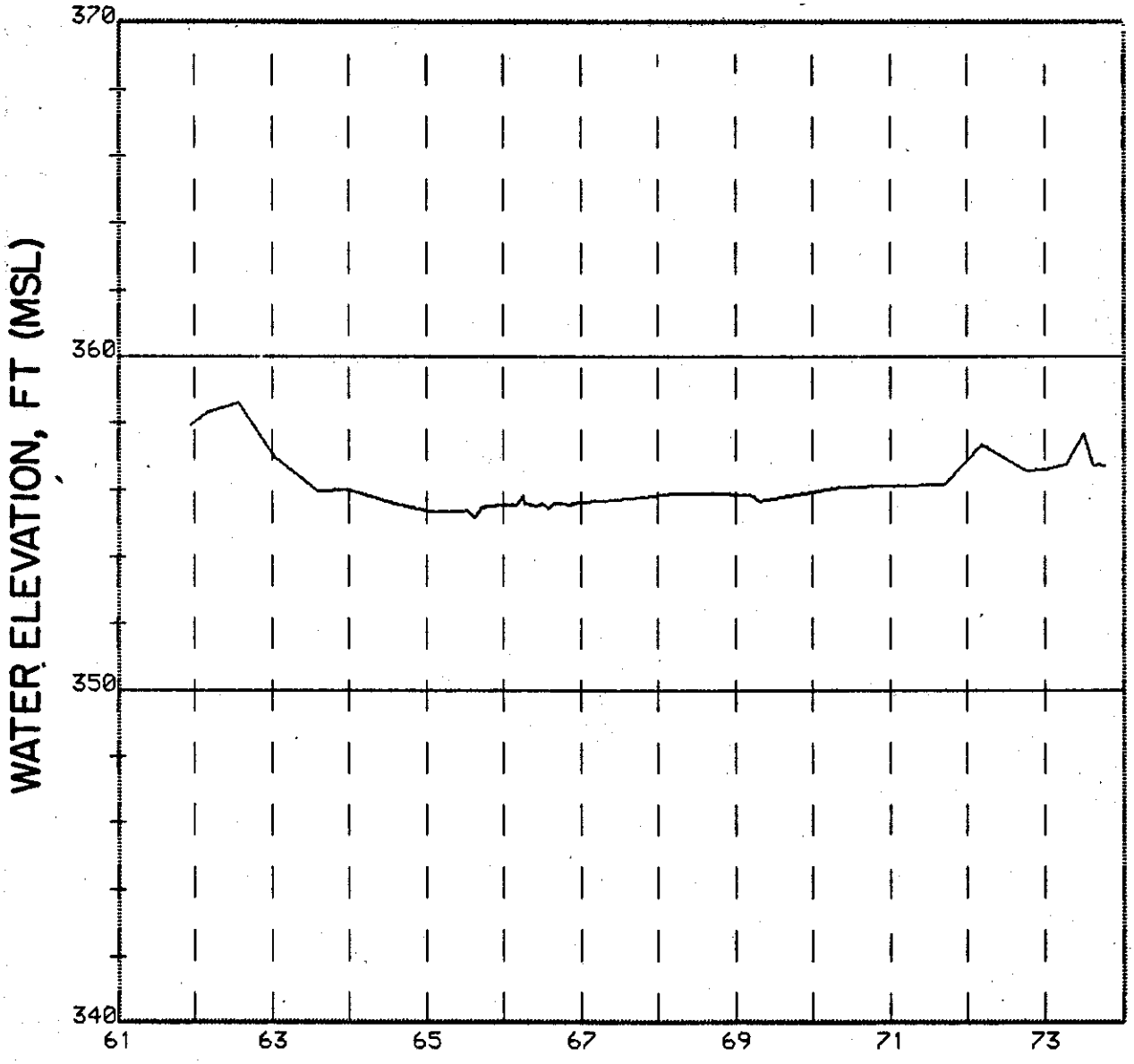

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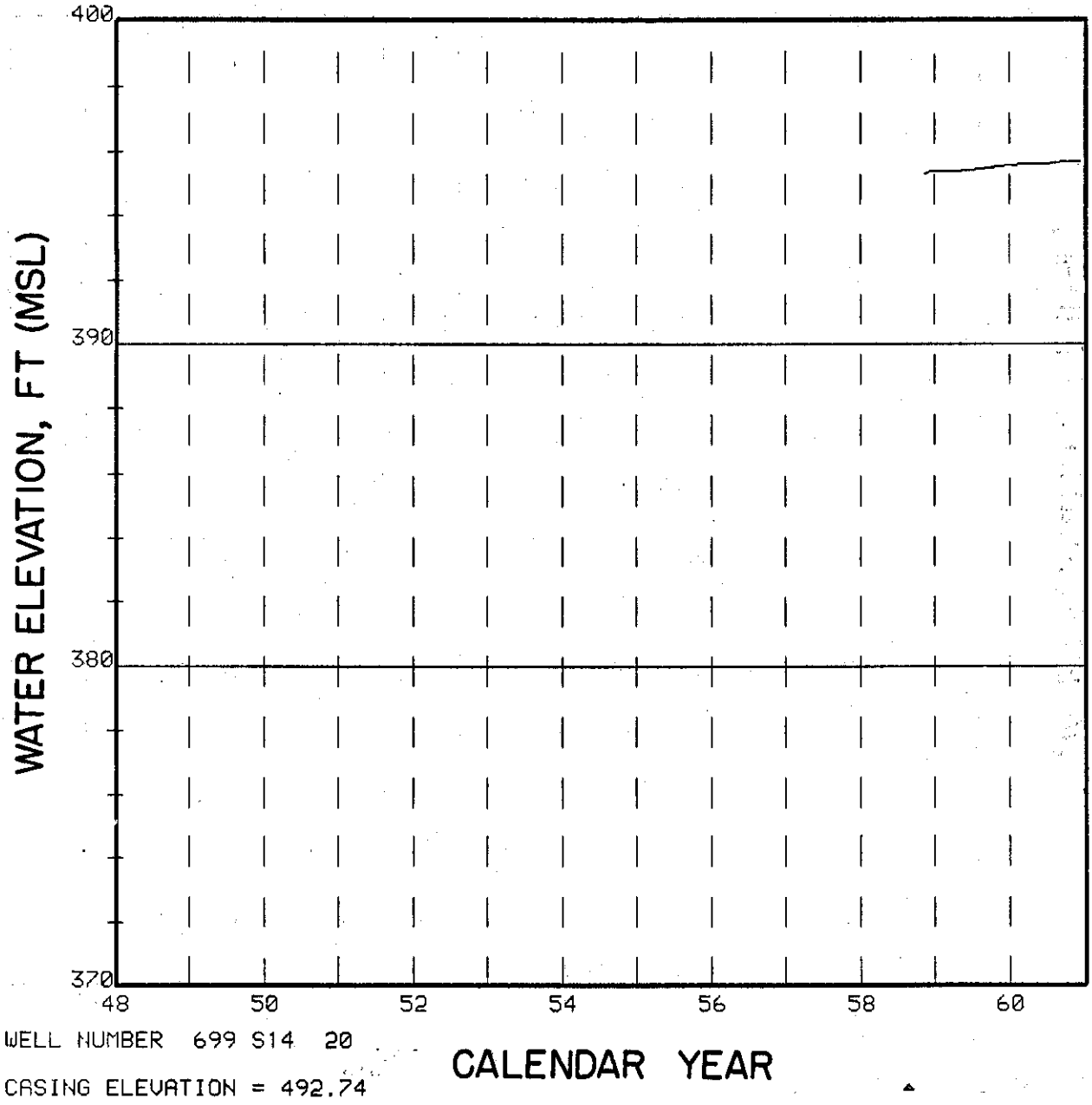
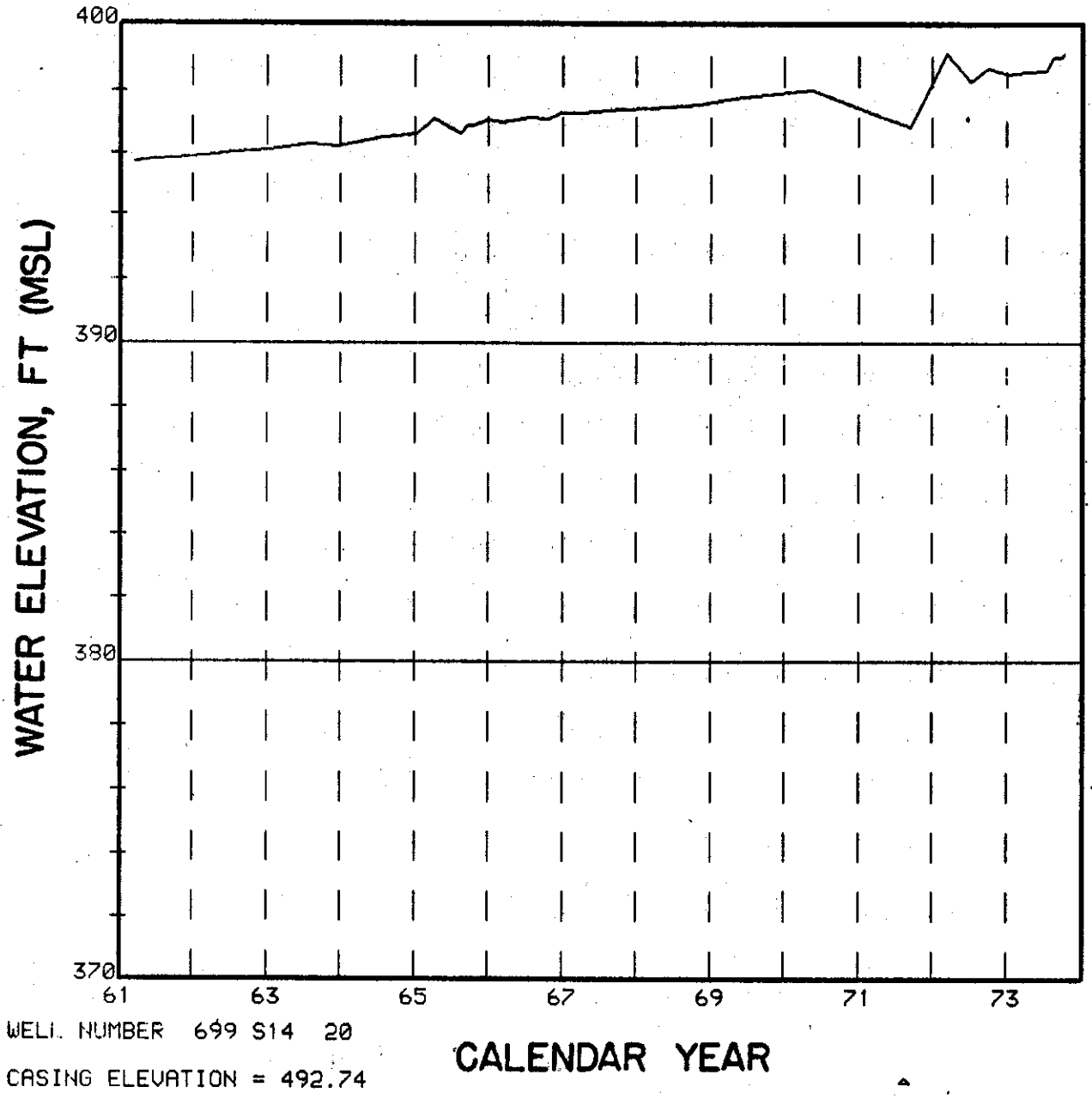


WELL NUMBER 699 S14 20

CASING ELEVATION = 492.74



WELL NUMBER 699 S14 20

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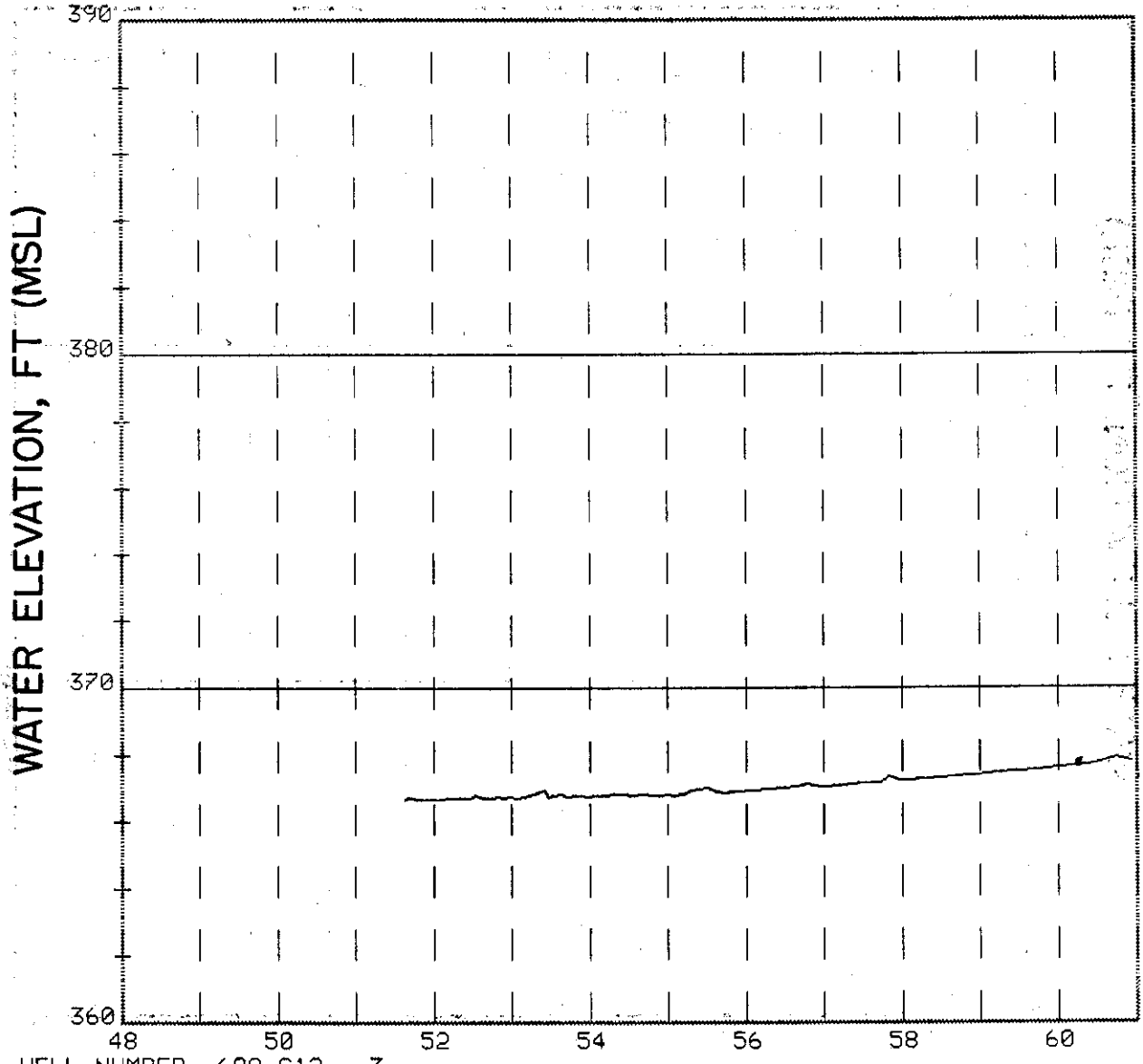

WELL NUMBER 699 S12 3

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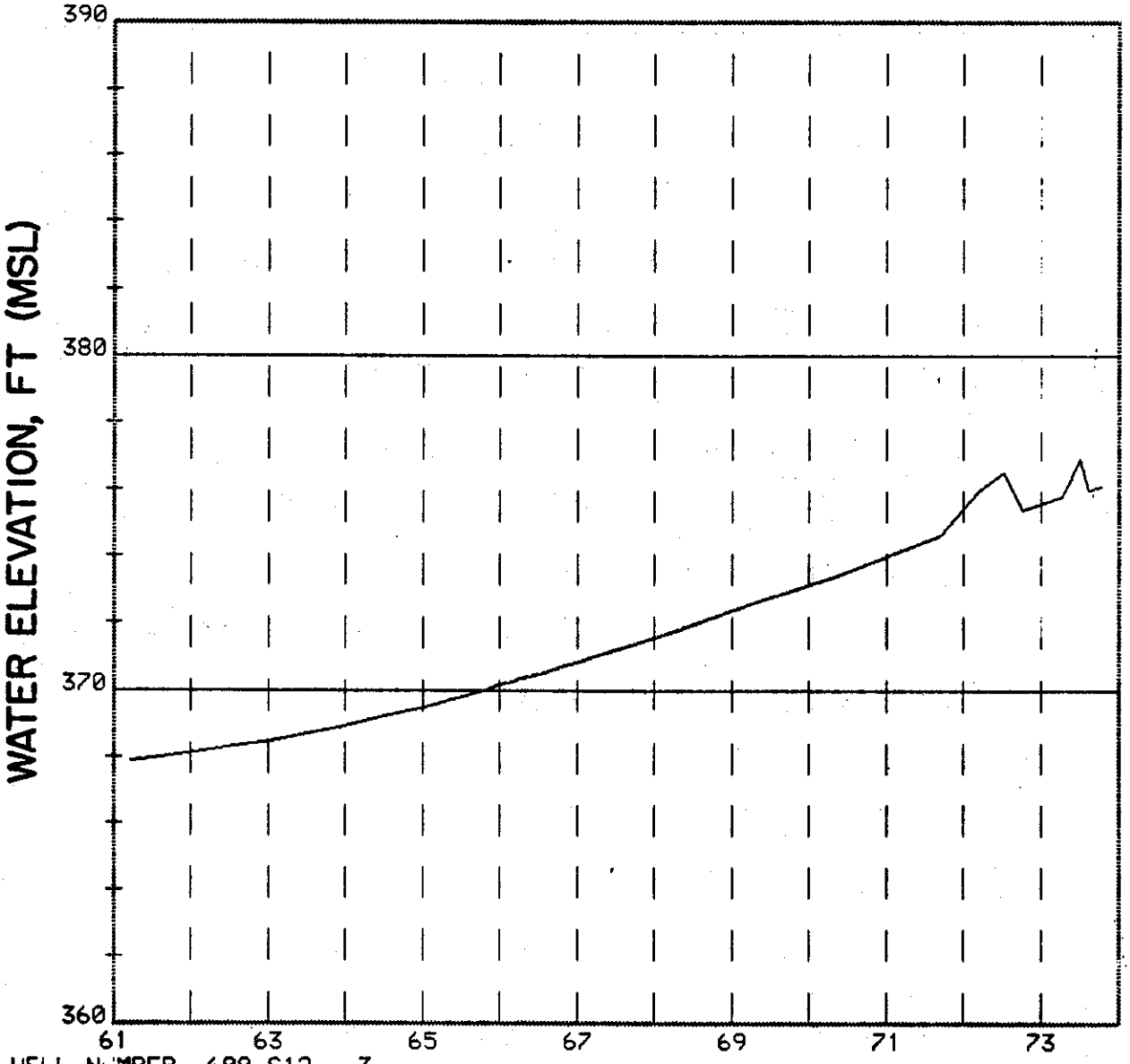
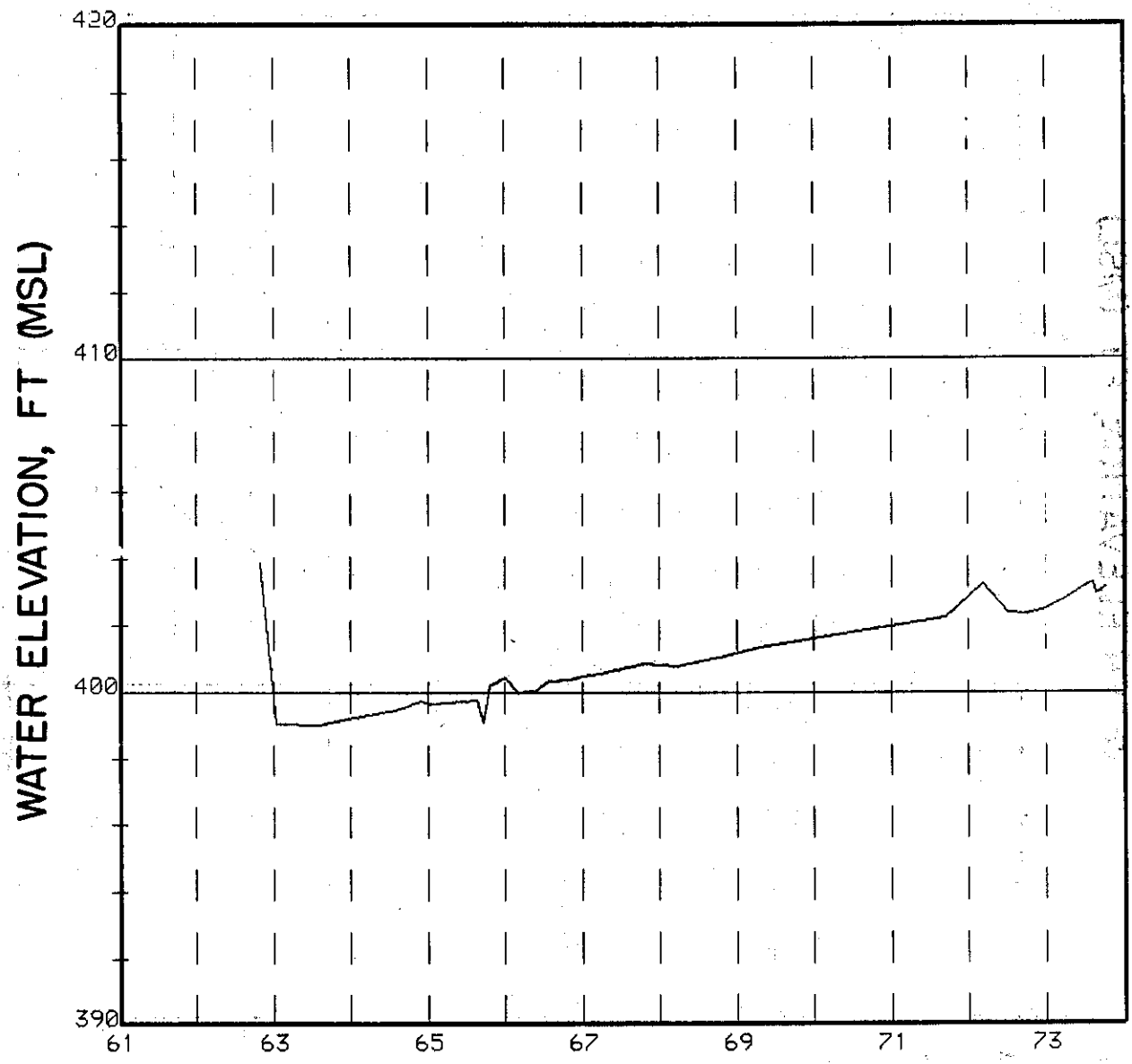


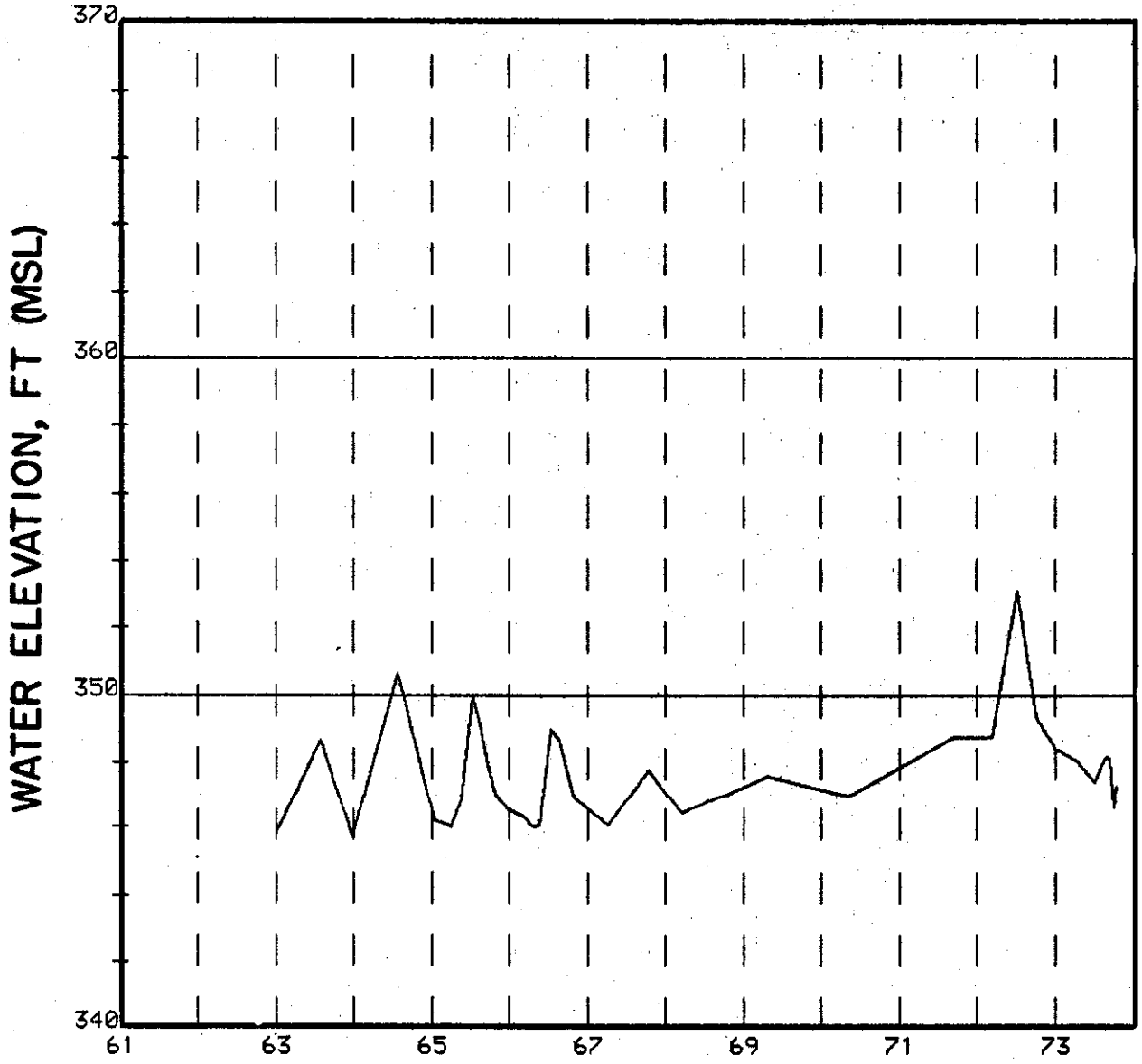
WELL NUMBER 699 S12 3

ING ELEVATION = 435.



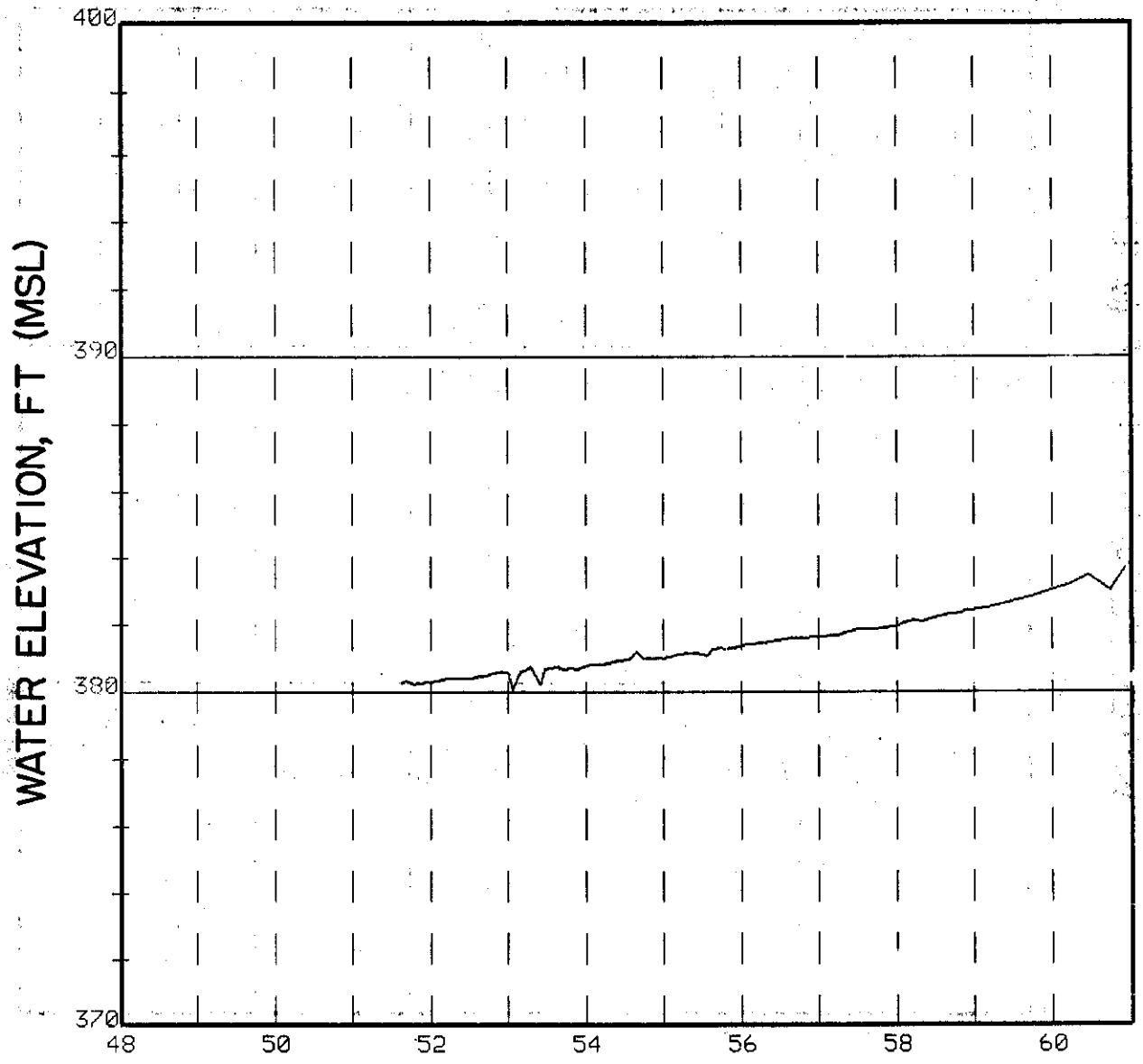
WELL NUMBER 699 S12 29

CASING ELEVATION = 487.68



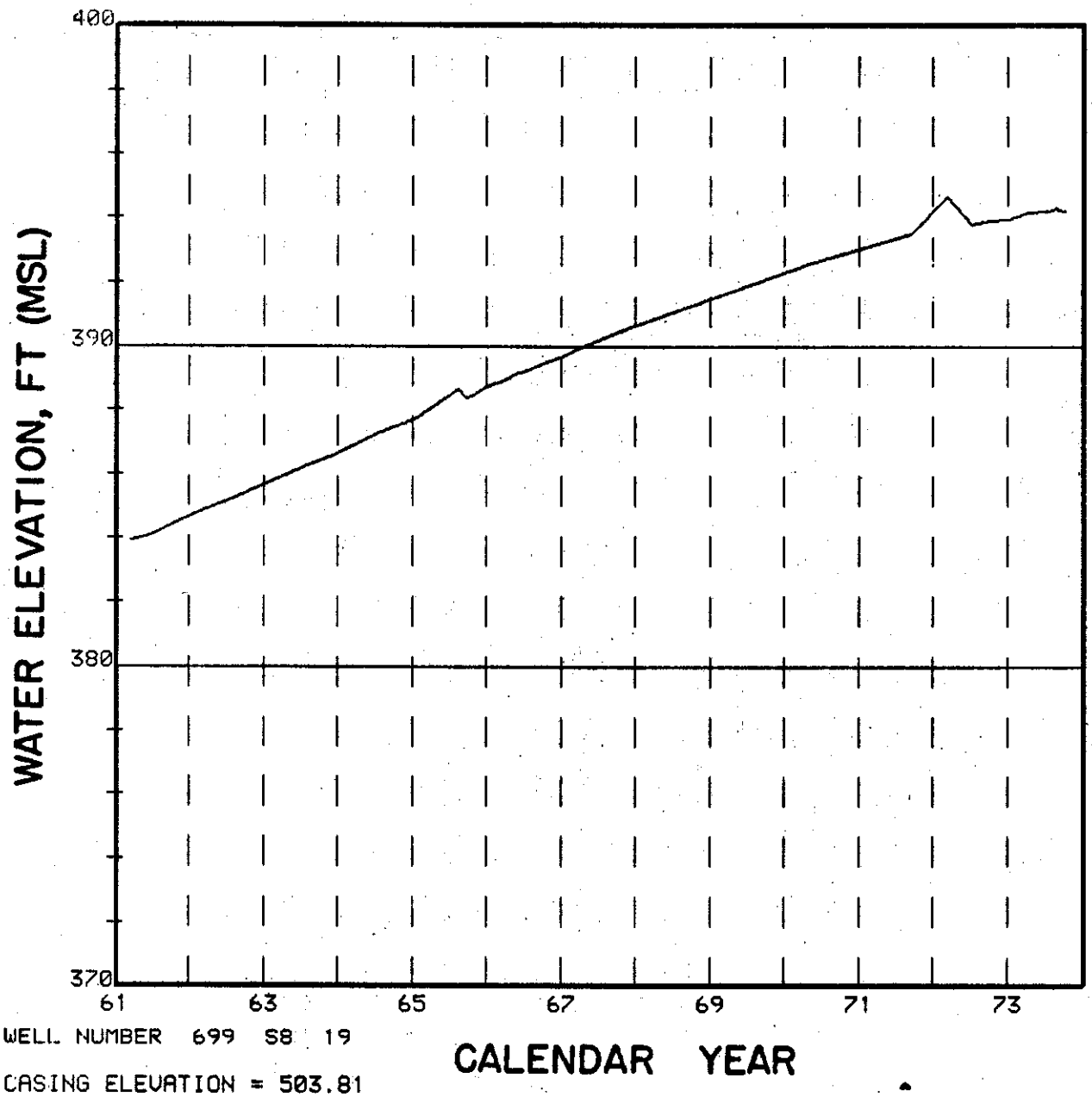
WELL NUMBER 699 S11 E12

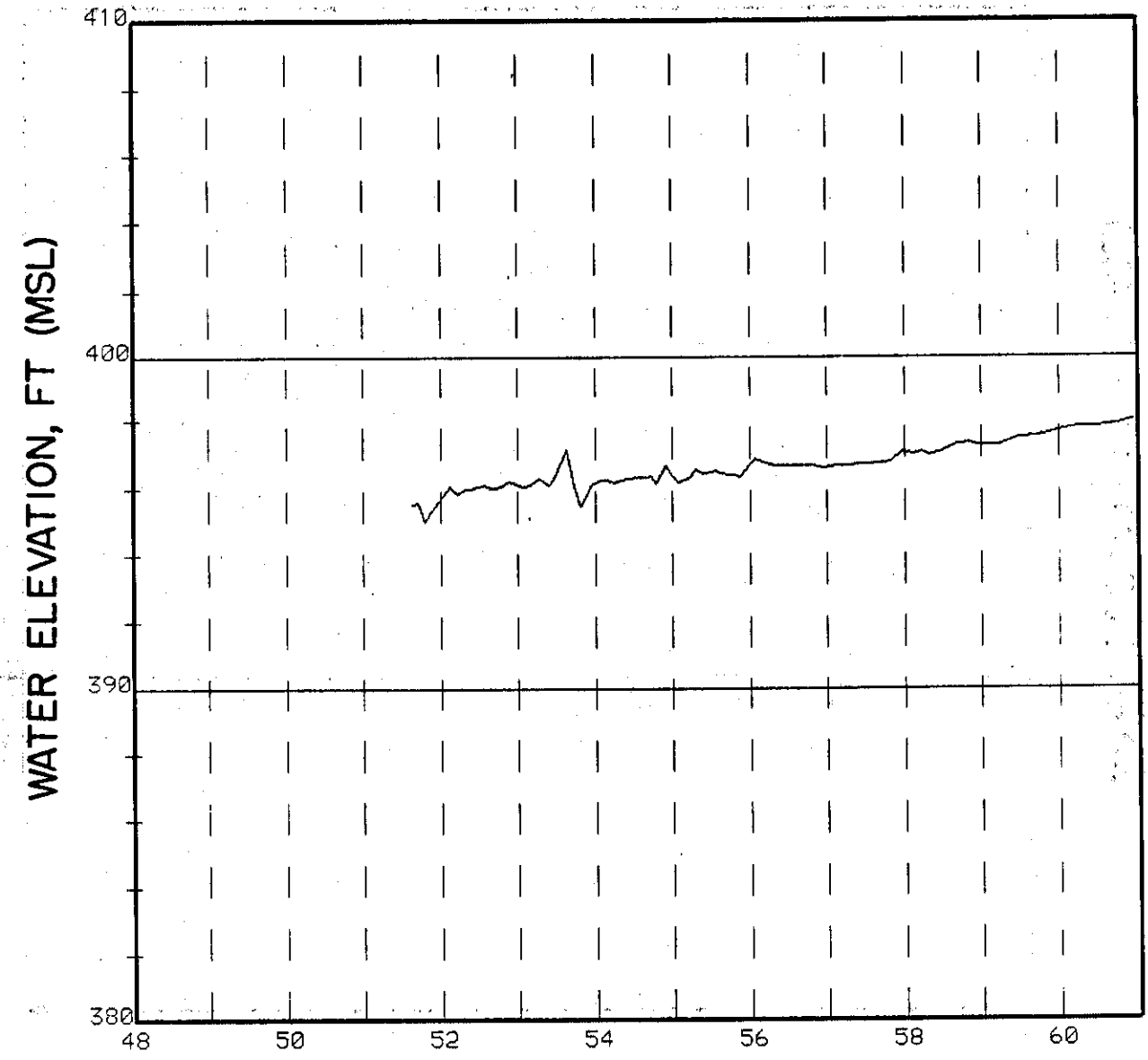
CASING ELEVATION = 365.87



WELL NUMBER 699 S8 19

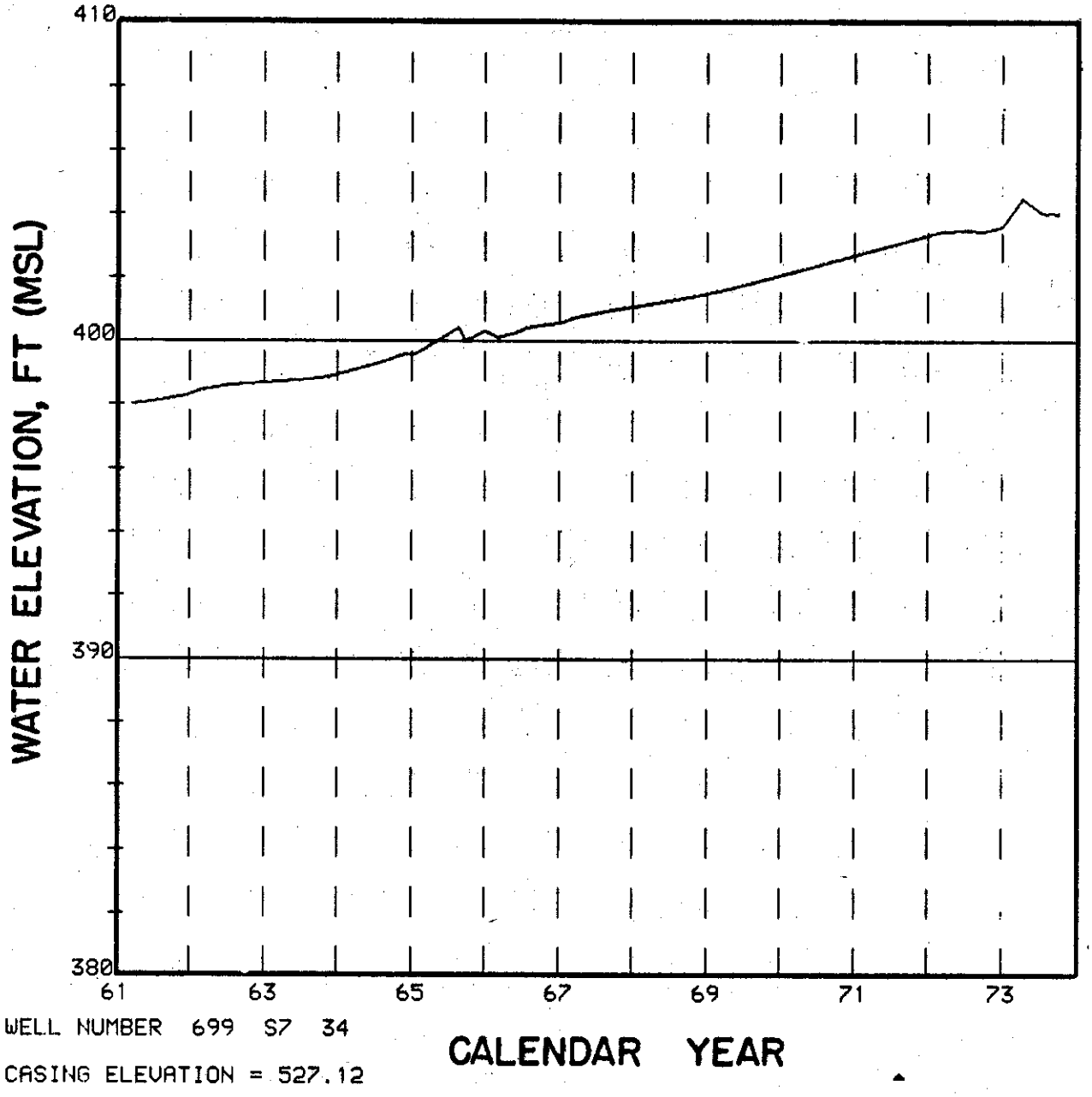
CASING ELEVATION = 503.81


400
390
380
370
WATER ELEVATION, FT (MSL)
61
63
65
67
69
71
73
CALENDAR YEAR
WELL NUMBER 699 S8 19
CASING ELEVATION = 503.81



WELL NUMBER 699 S7 34

CASING ELEVATION = 527.12



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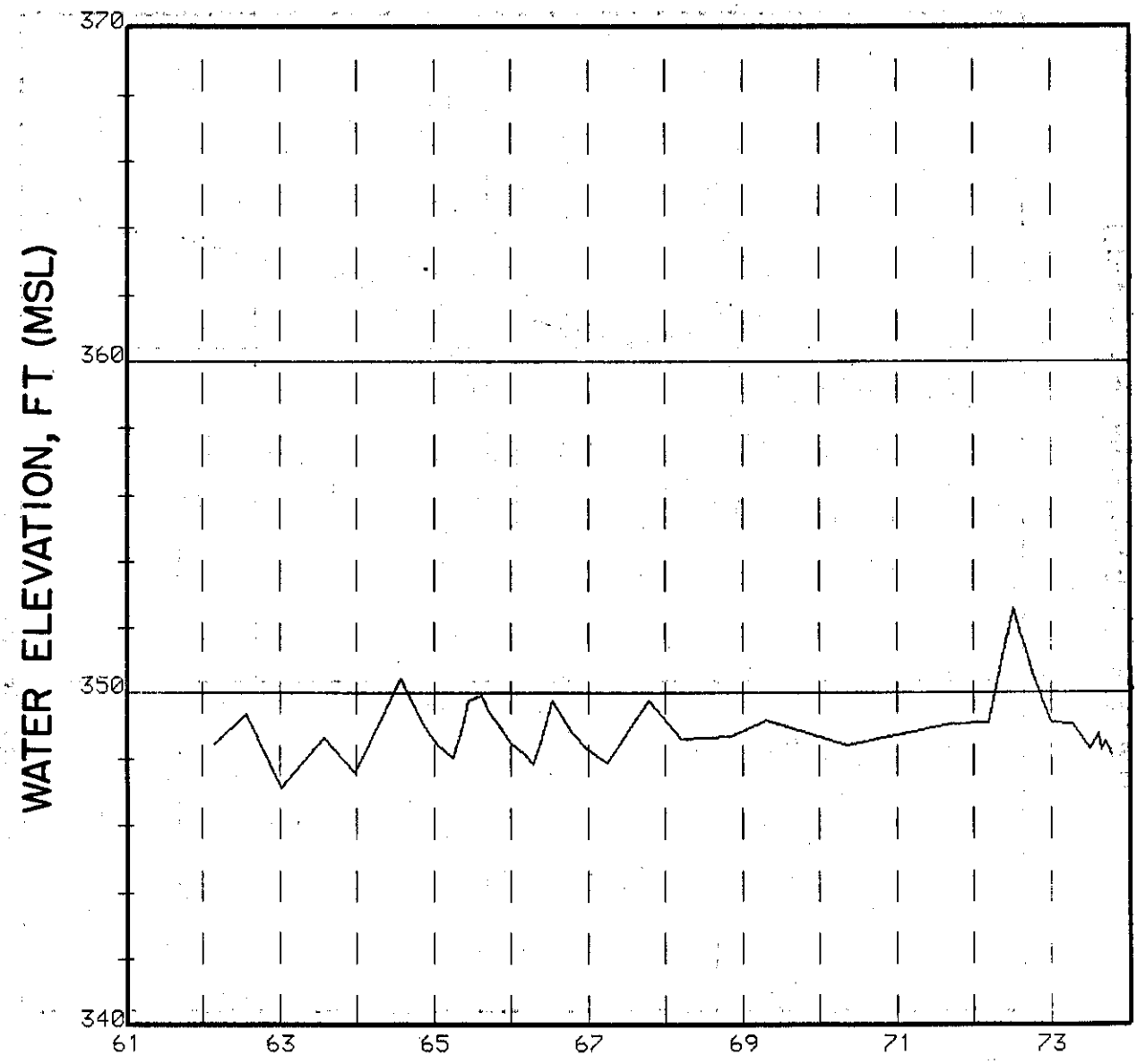
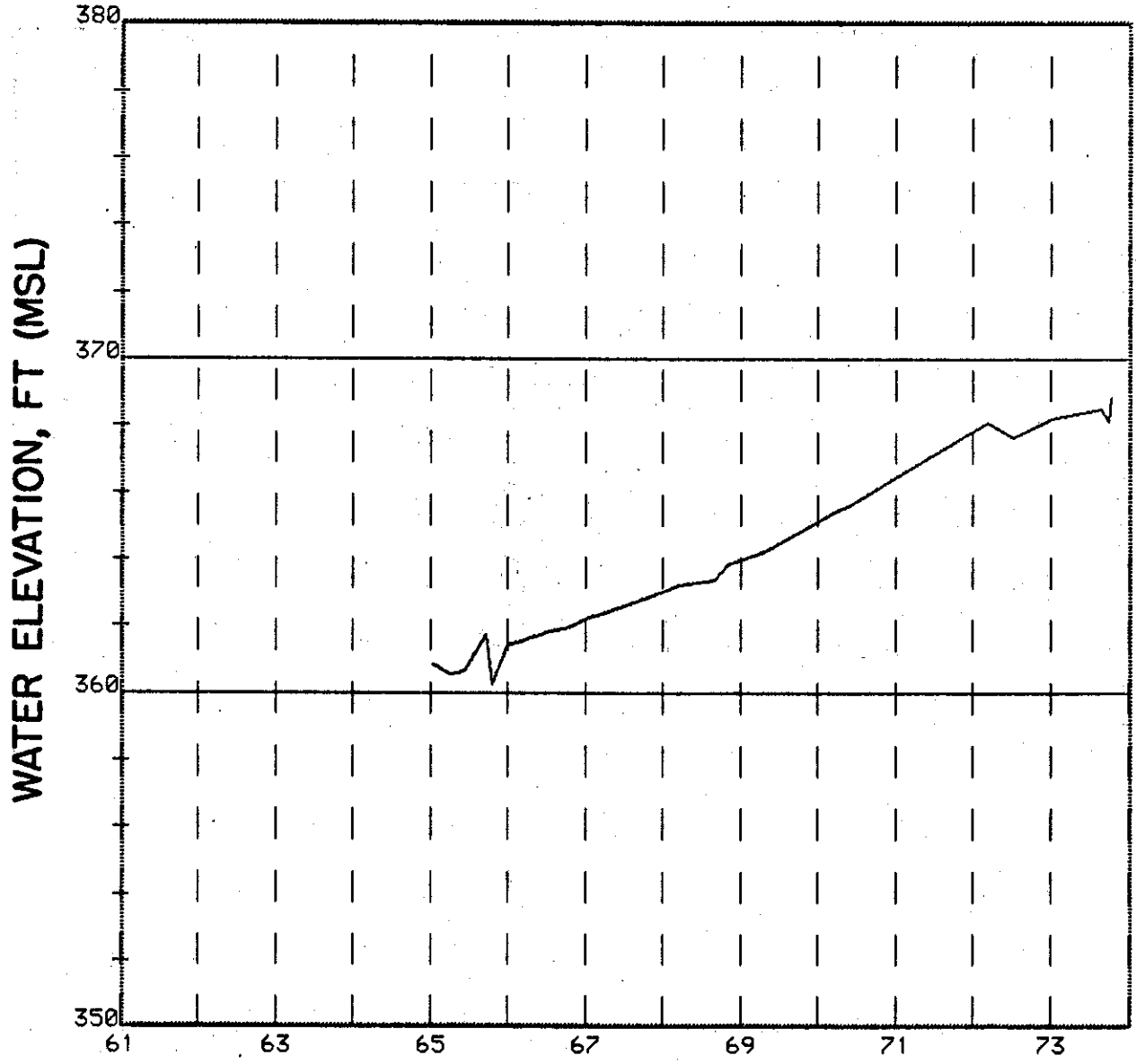


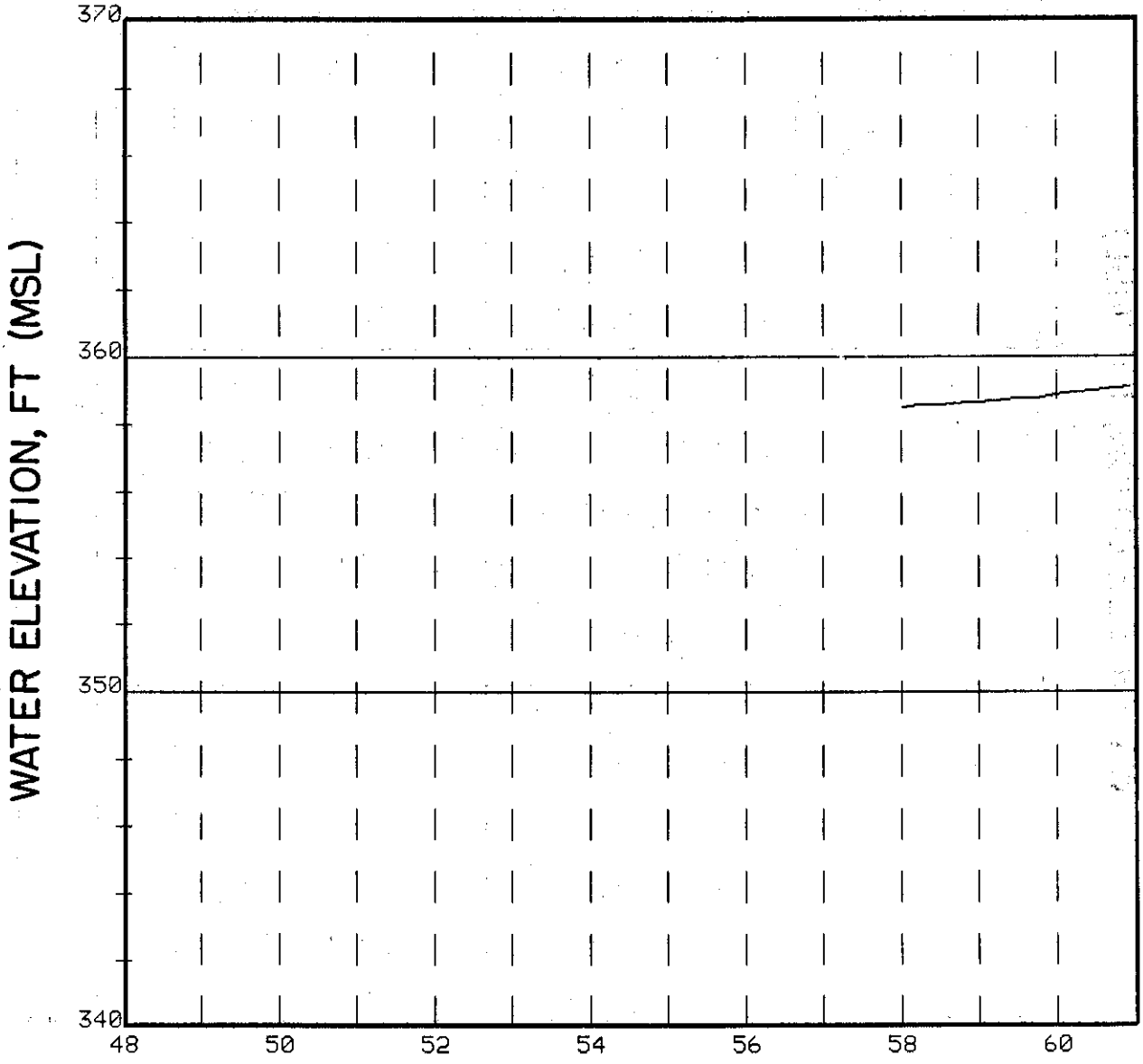
WELL NUMBER 699 S6 E14

CASING ELEVATION = 378.29



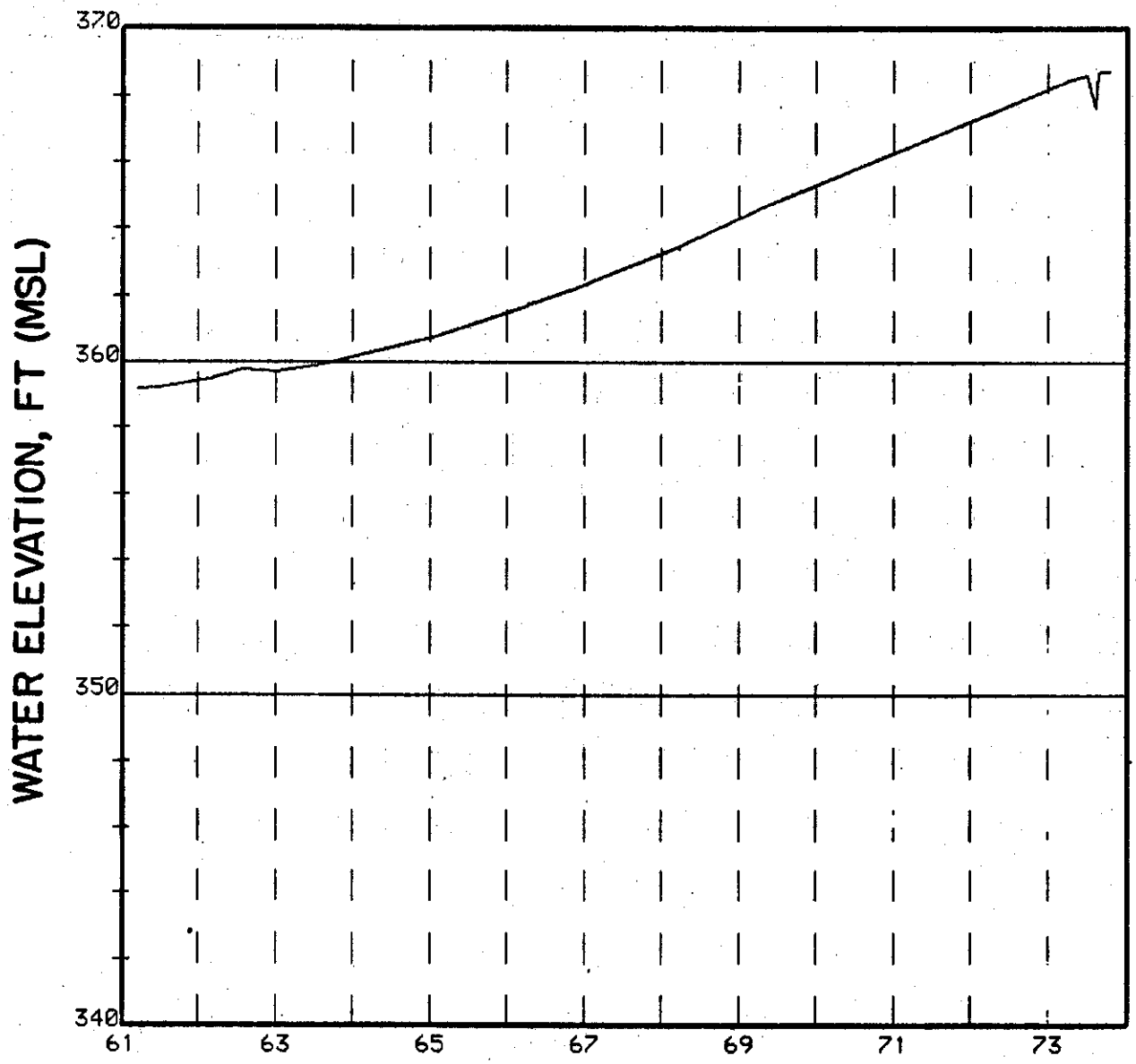
WELL NUMBER 699 S6 E4C

CASING ELEVATION = 432.98



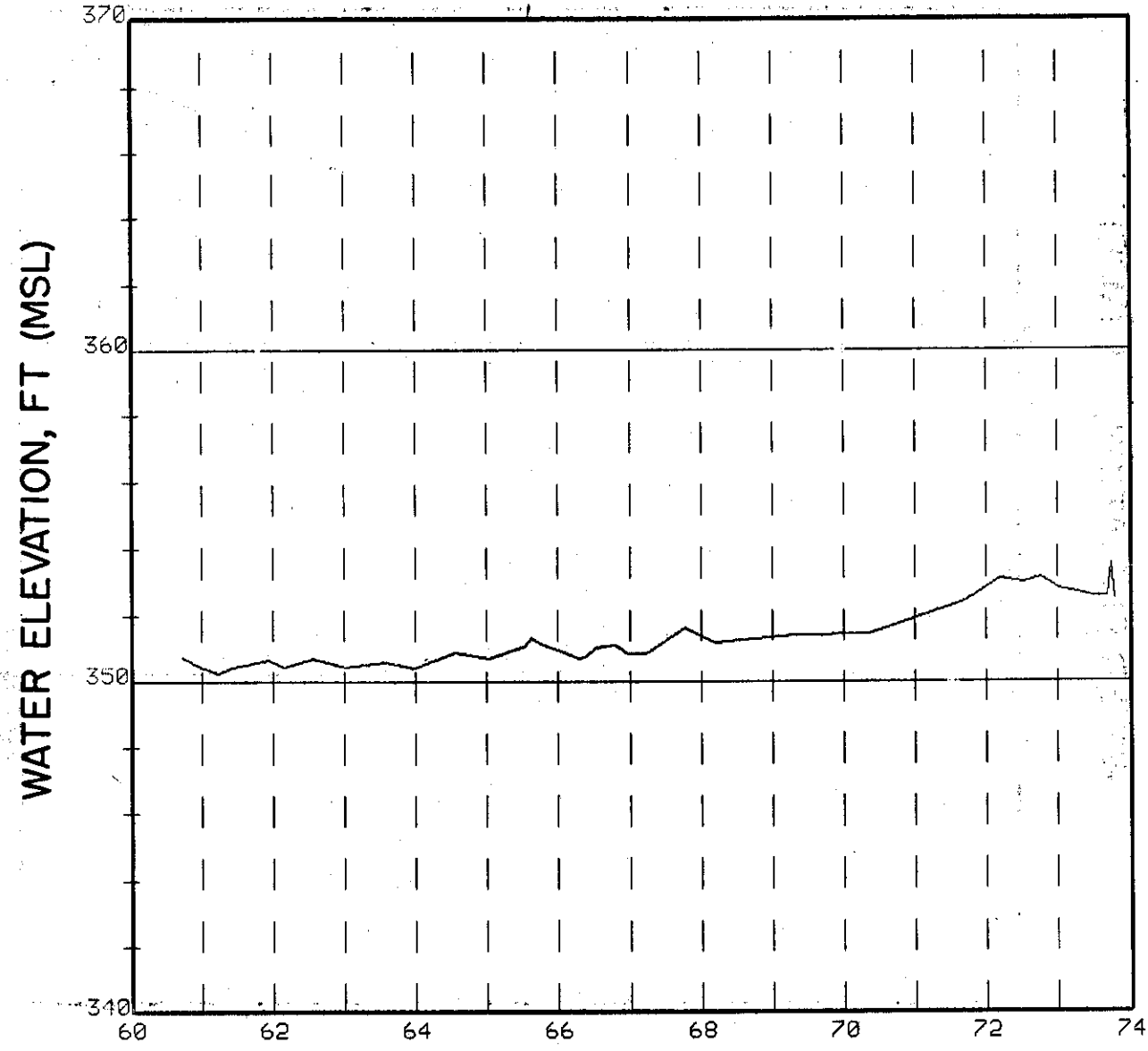
WELL NUMBER 699 S6 E4D

CASING ELEVATION = 430.47



WELL NUMBER 699 S6 E4D

CASING ELEVATION = 430.47



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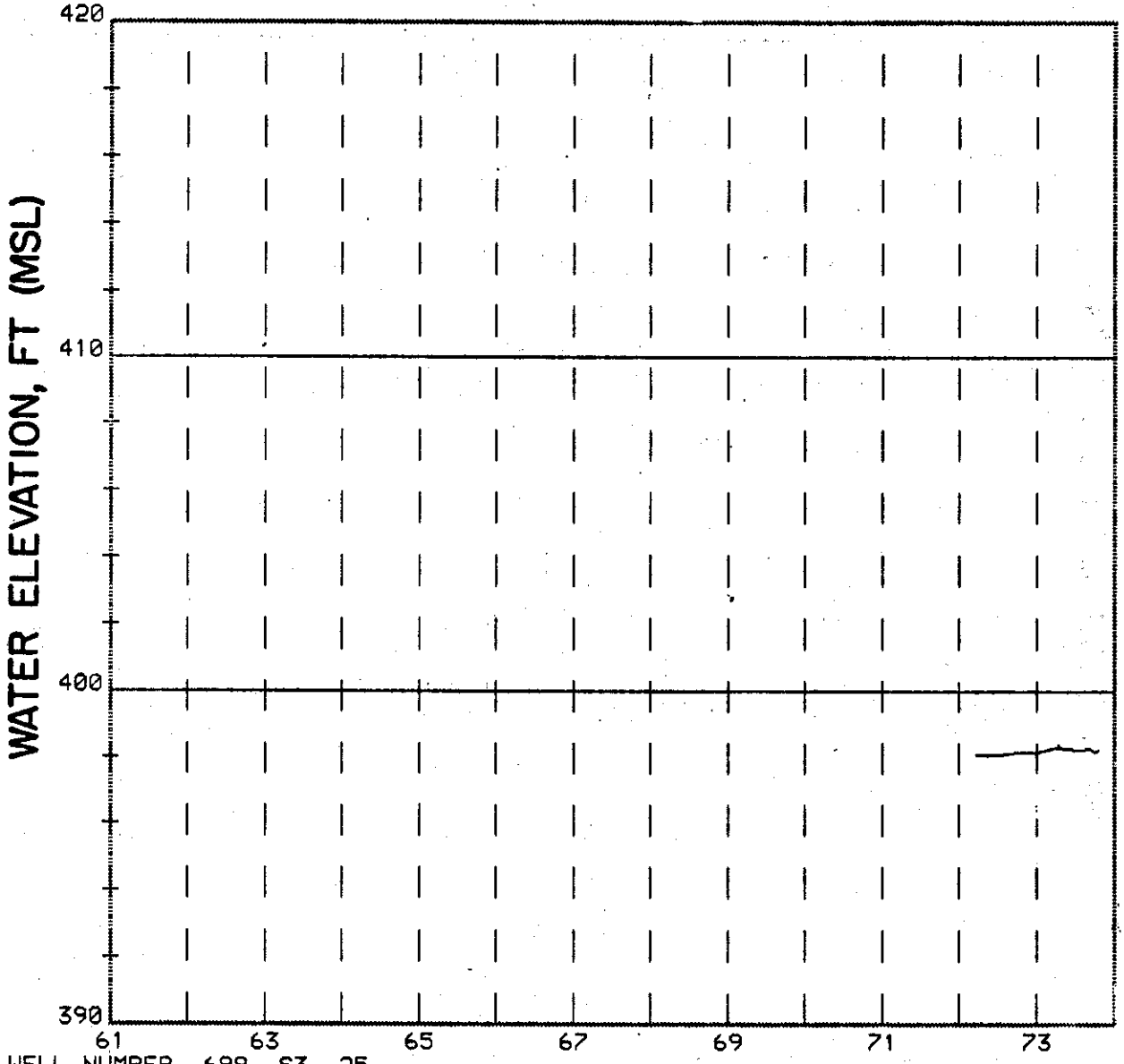
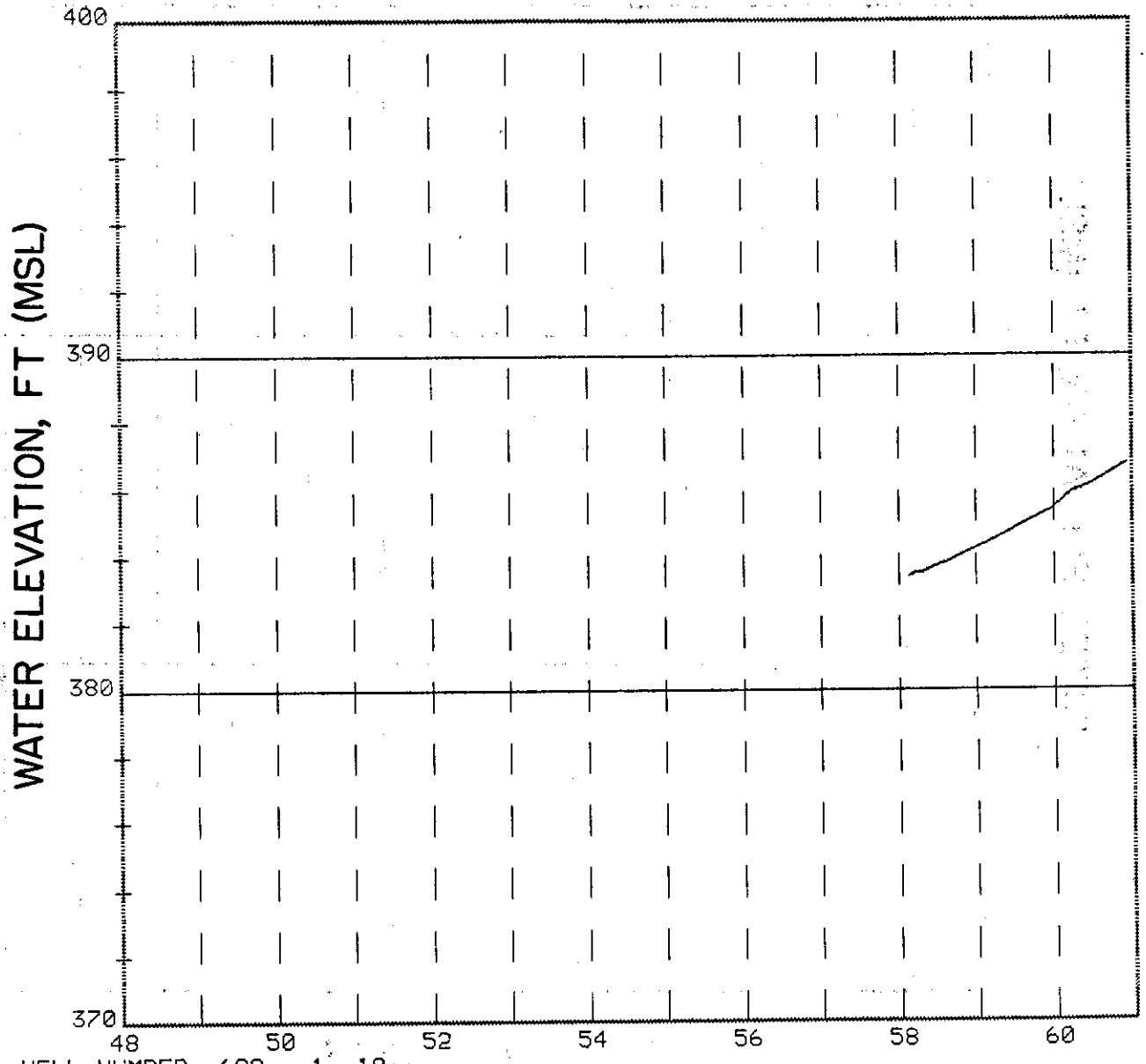


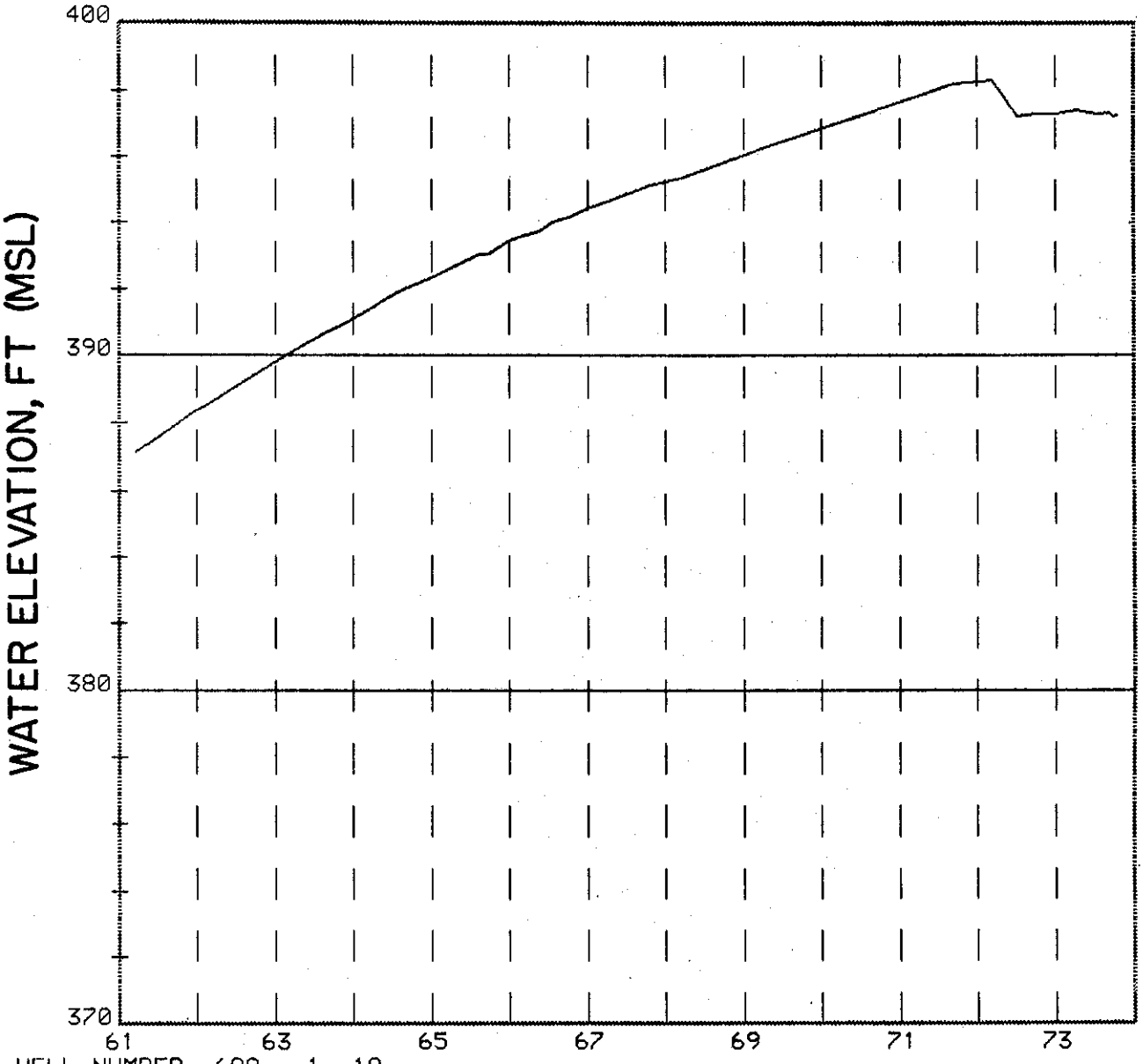
WELL NUMBER 699 S3 25

CASING ELEVATION = 523.50



WELL NUMBER 699 1 18

CASING ELEVATION = 537.68



WELL NUMBER 699 1 18

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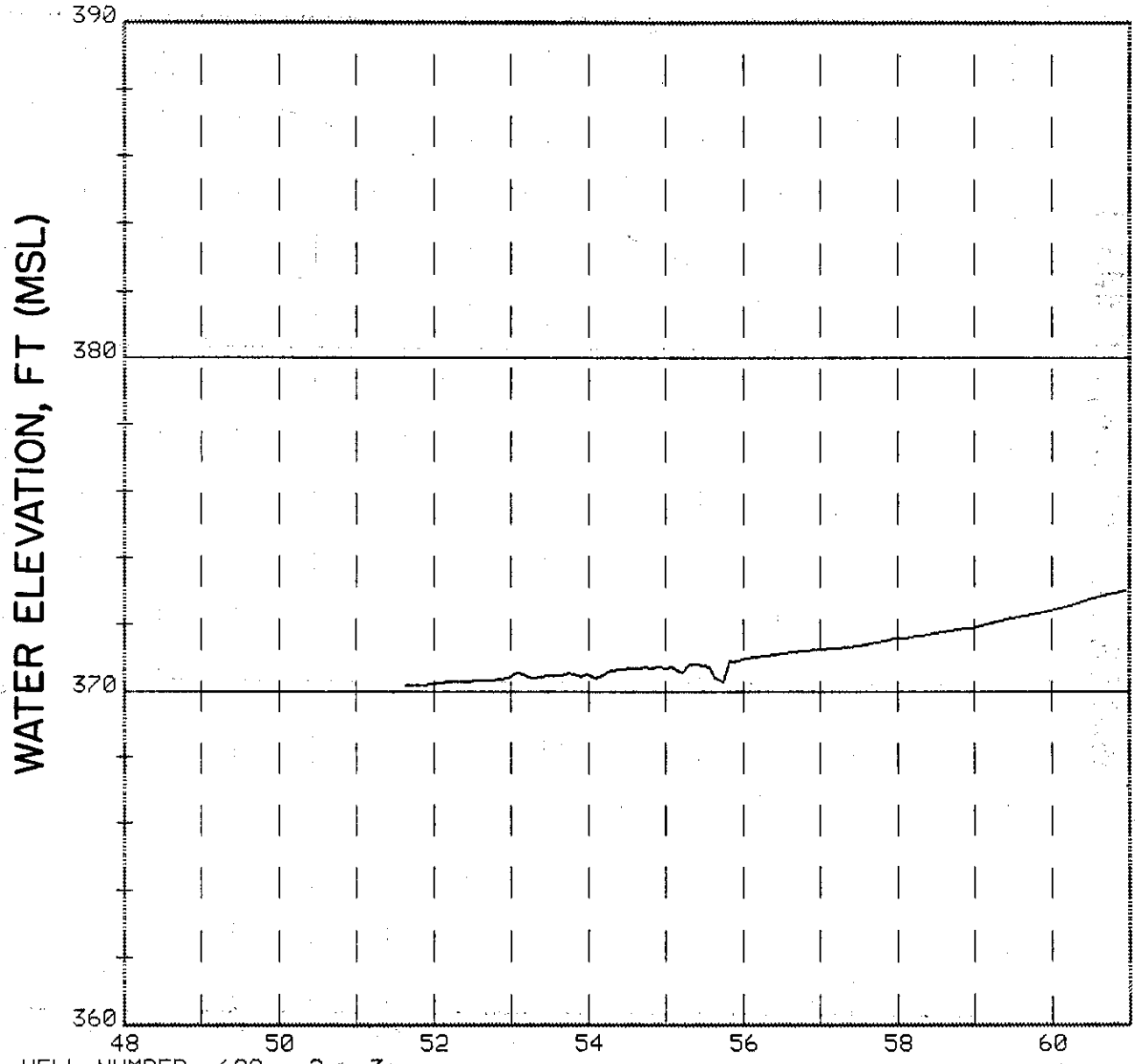
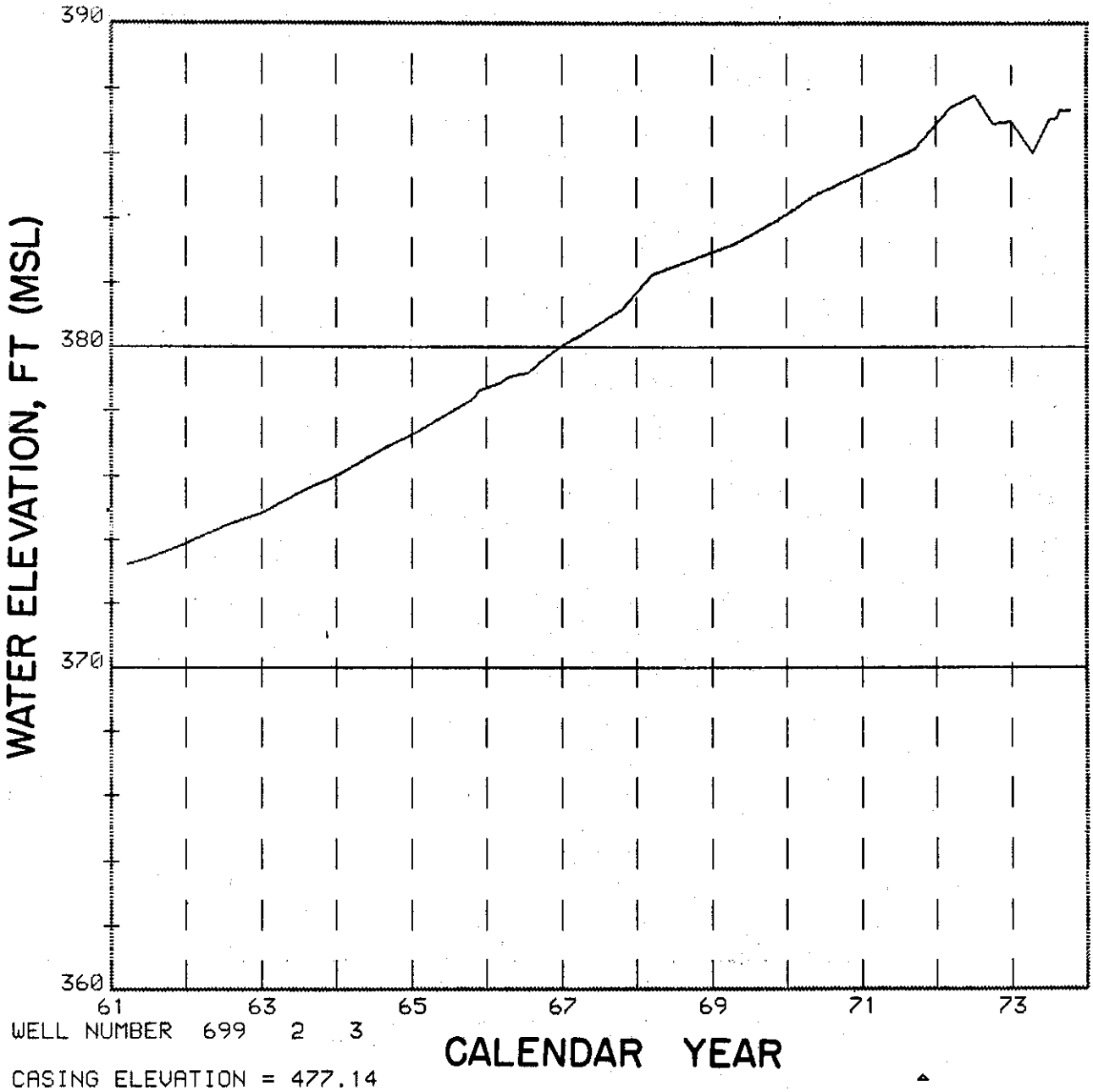


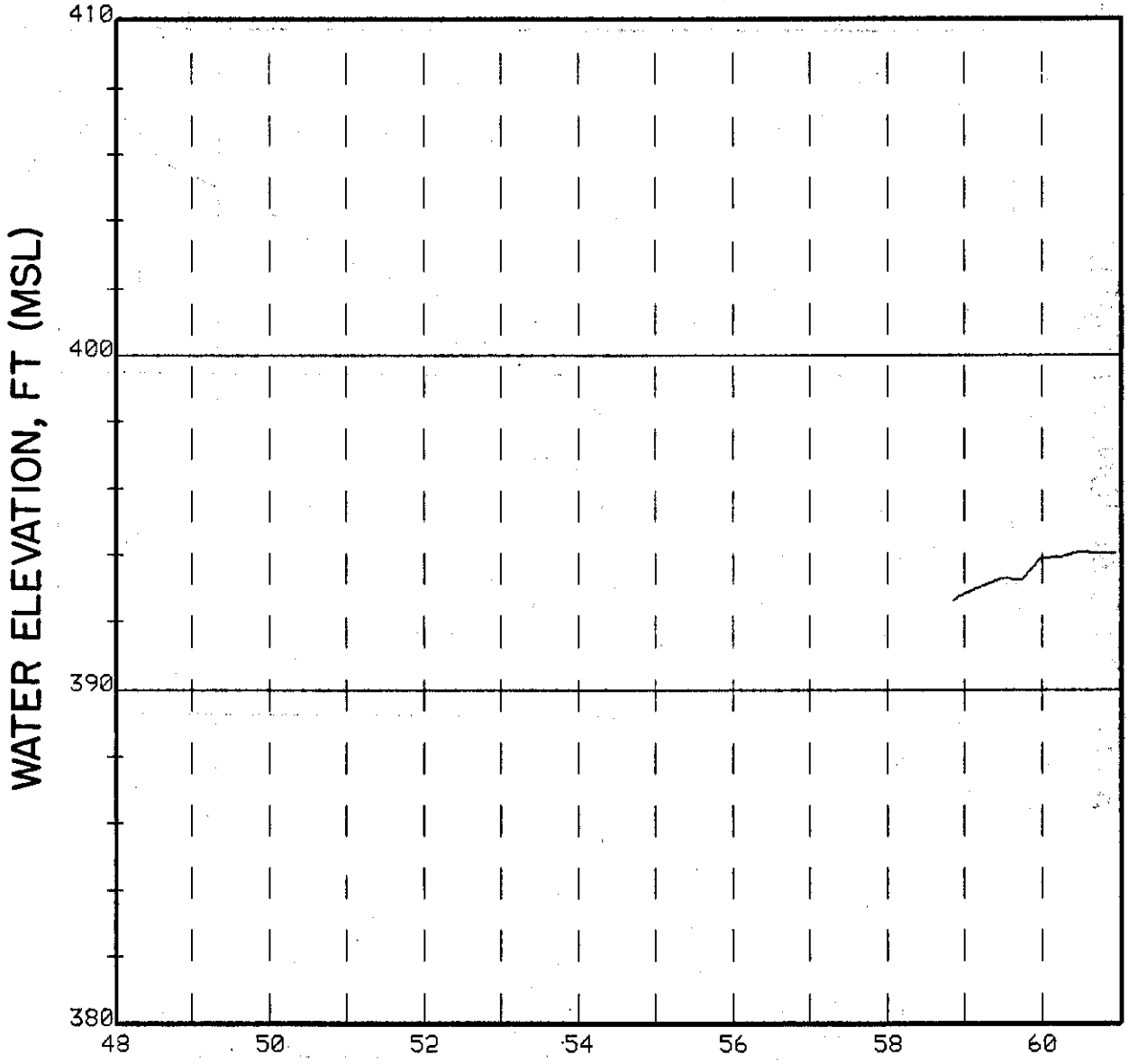
WELL NUMBER 699 2 3

CASING ELEVATION = 477.14



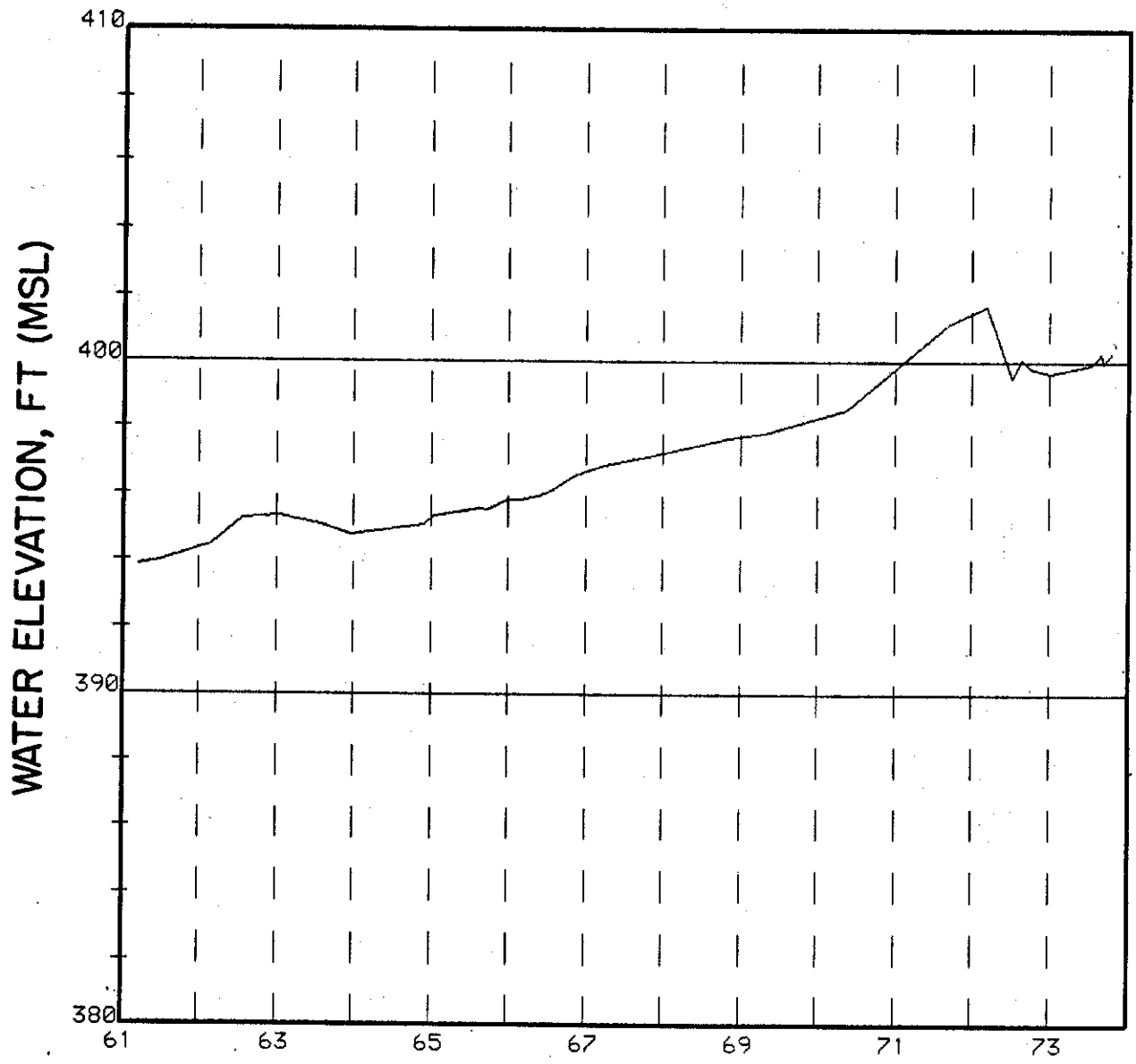
WELL NUMBER 699 2 3

CASING ELEVATION = 477.14



WELL NUMBER 699 2 33

CASING ELEVATION = 536.37



WELL NUMBER 699 2 33

CASING ELEVATION = 536.37

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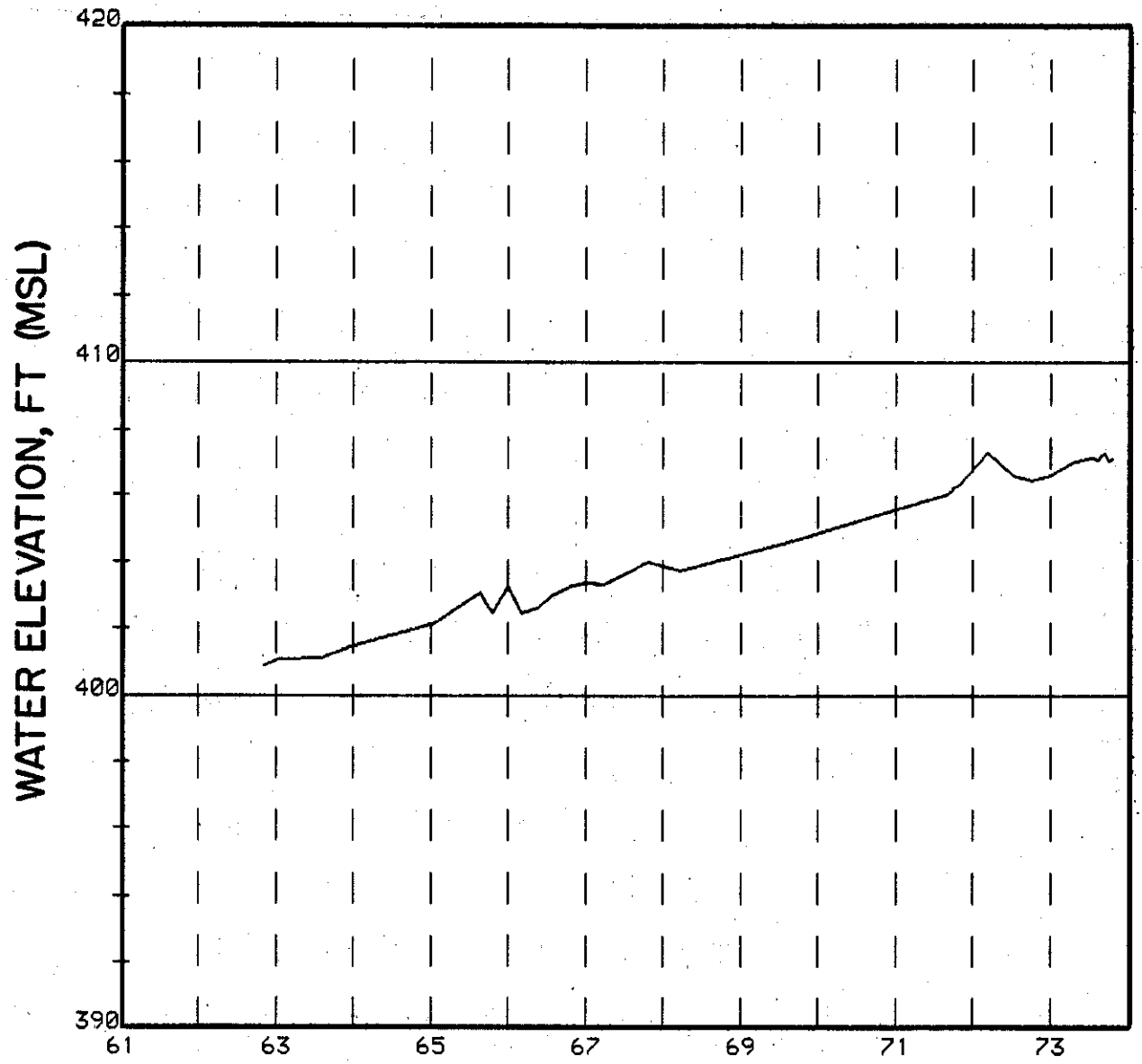
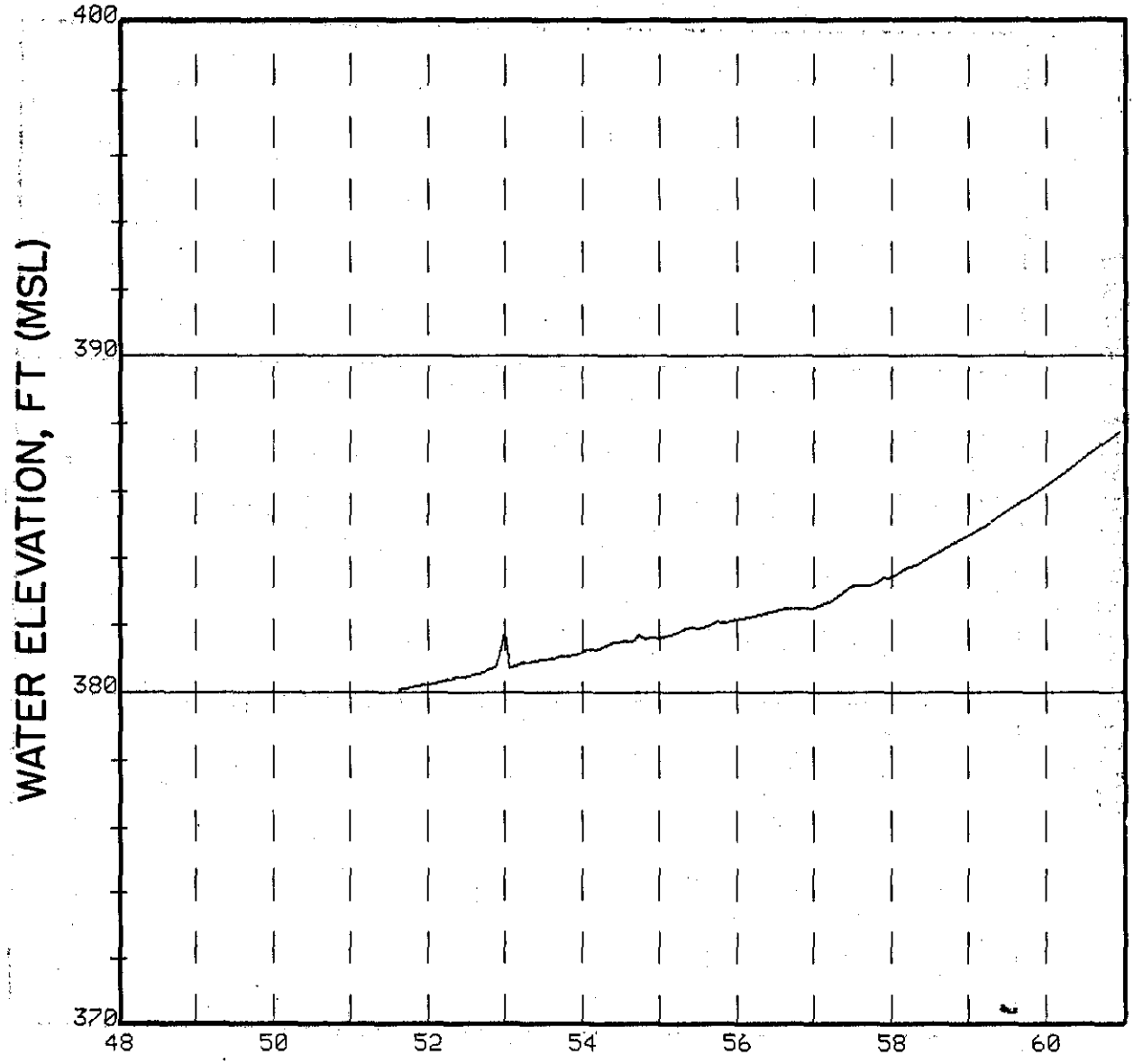


WELL NUMBER 699 3 45

CASING ELEVATION = 504.54



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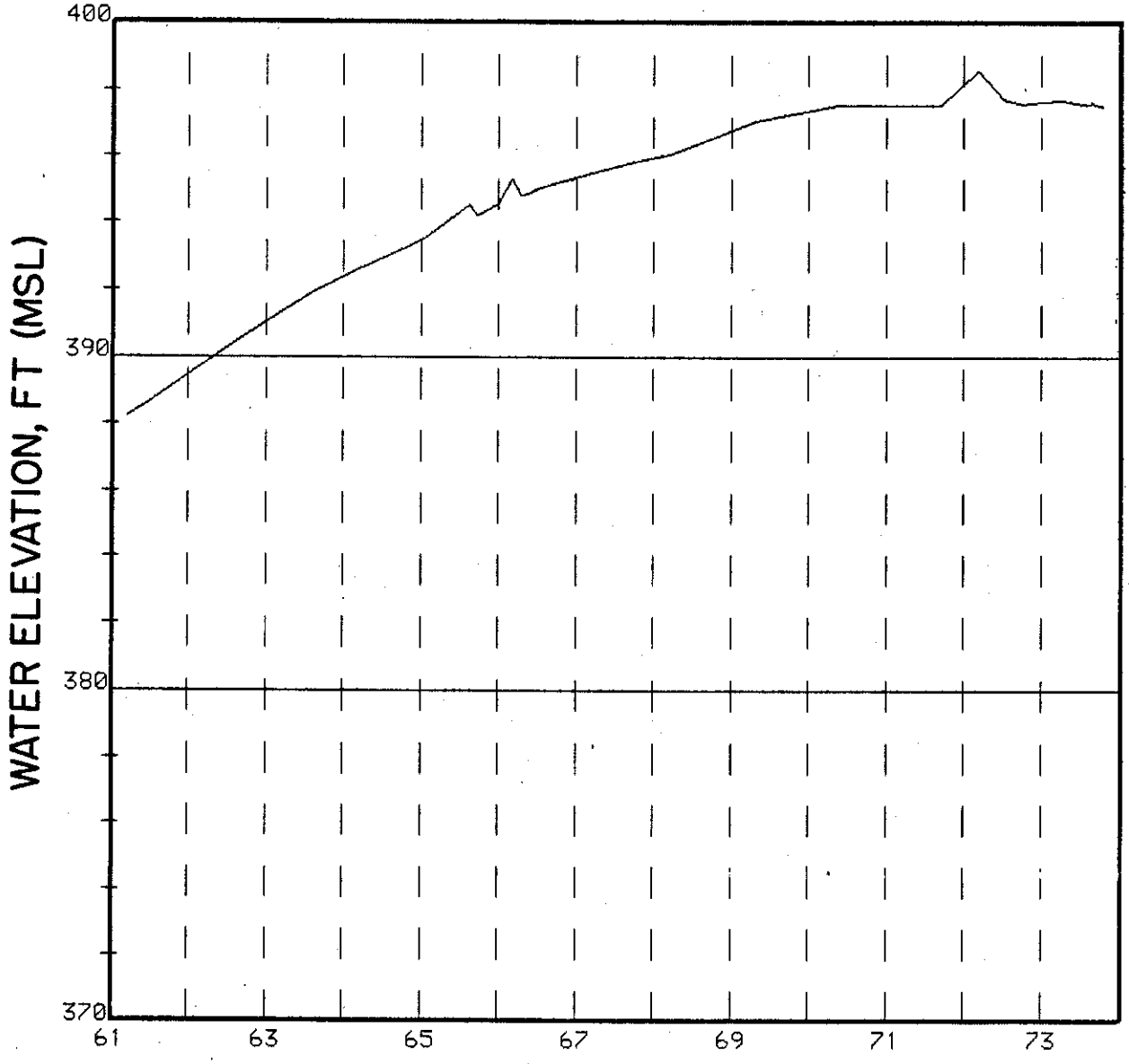

WELL NUMBER 699 8 17

CASING ELEVATION = 522.44

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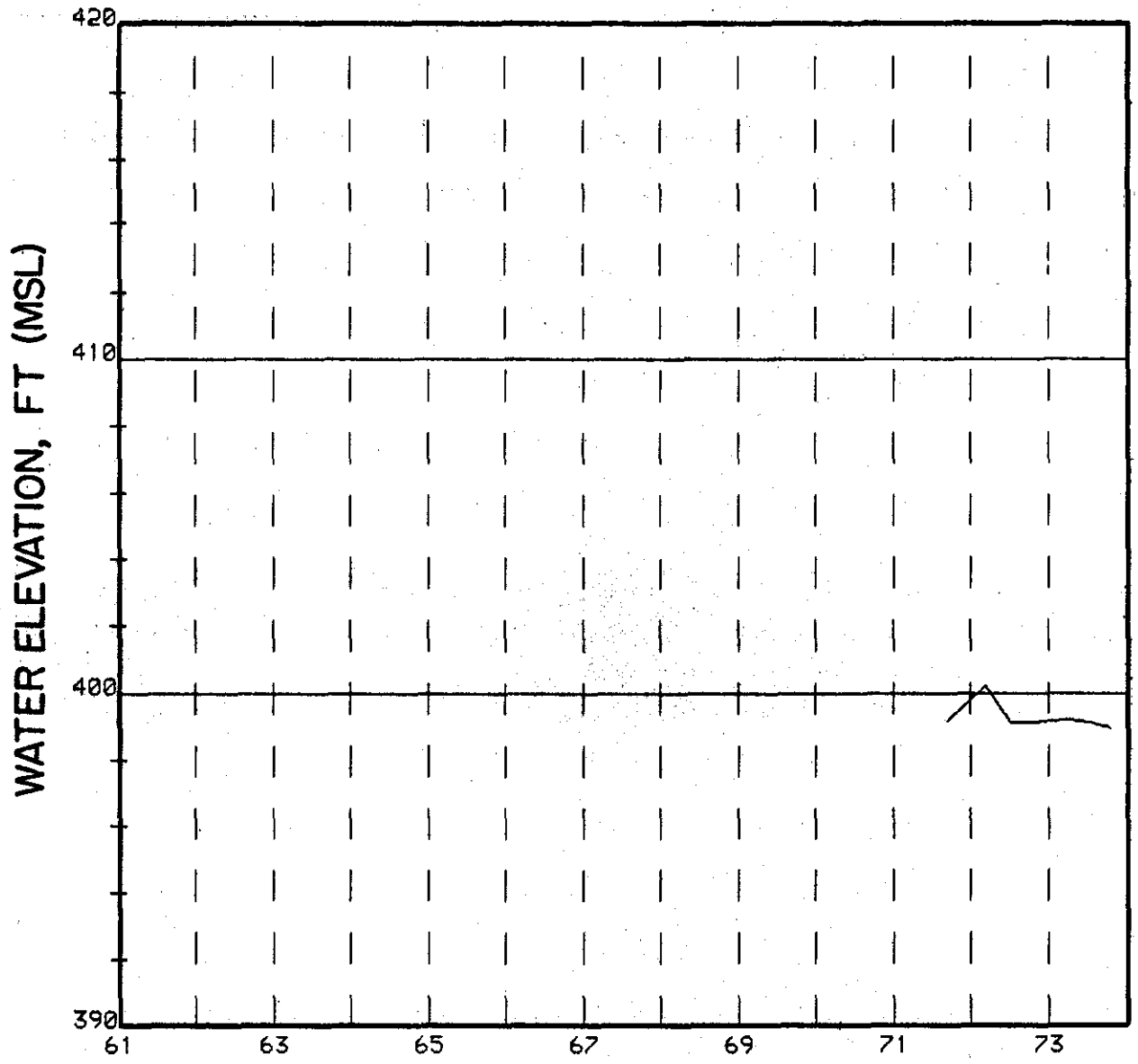

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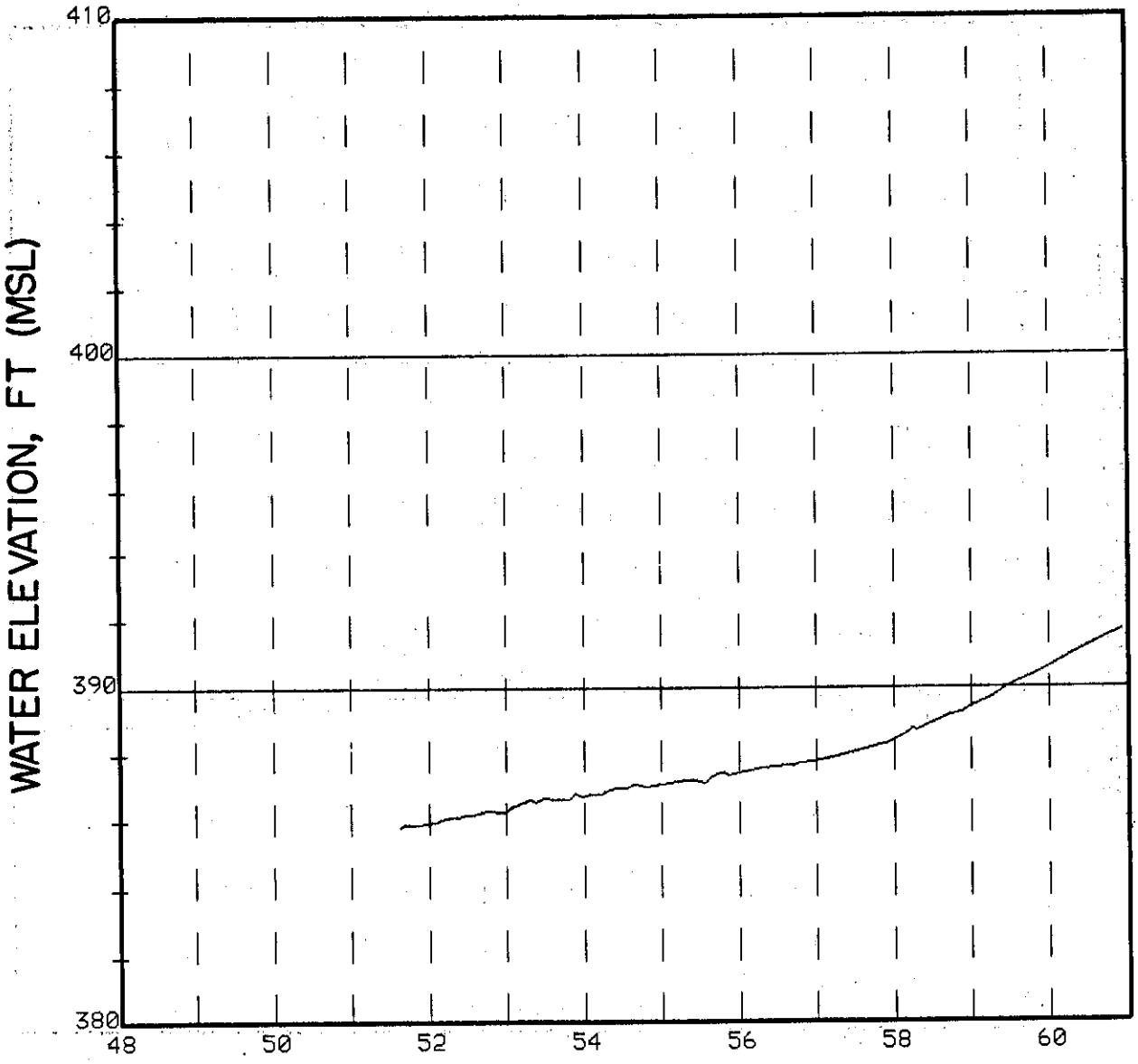

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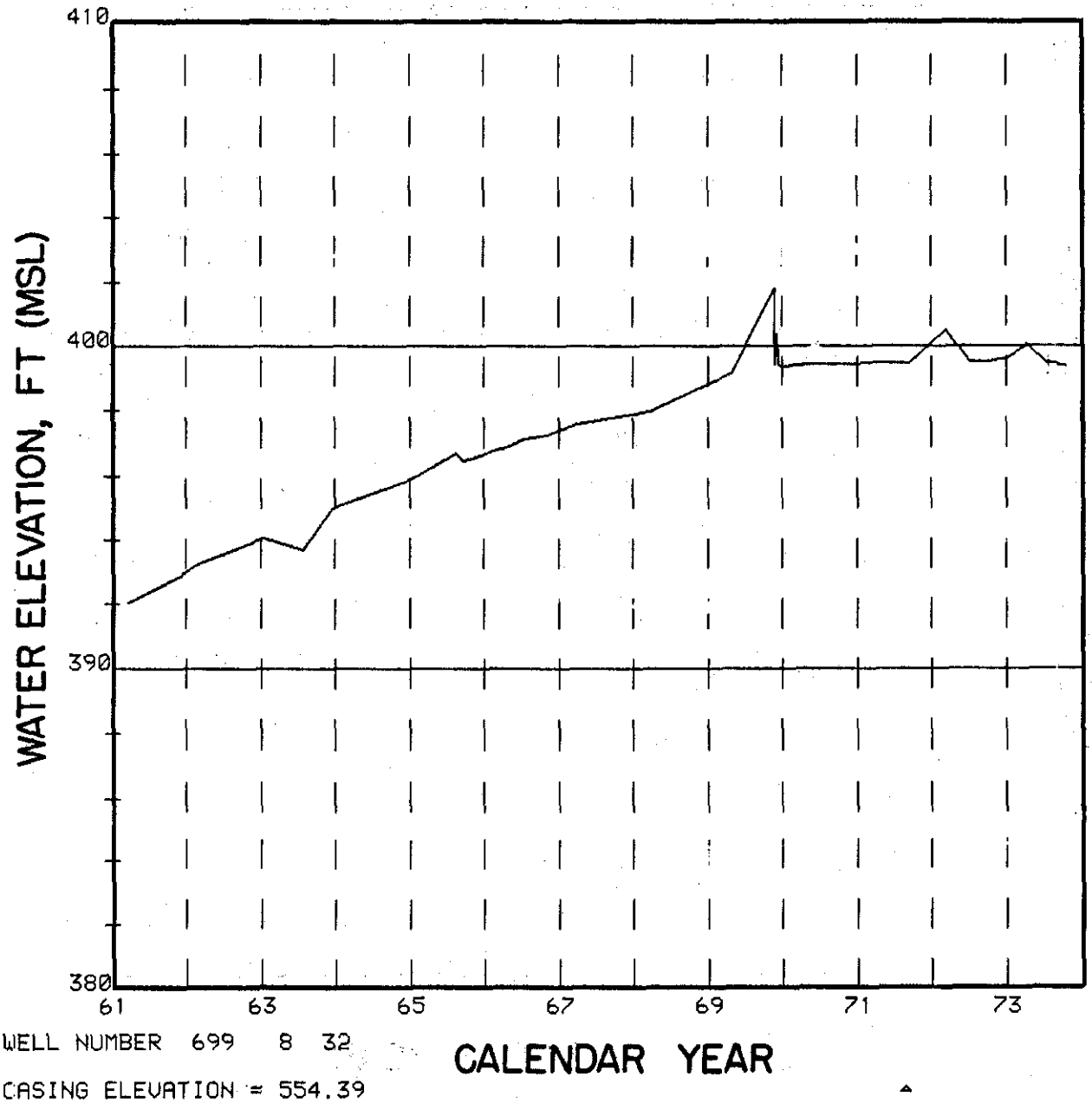
CASING ELEVATION = 554.39



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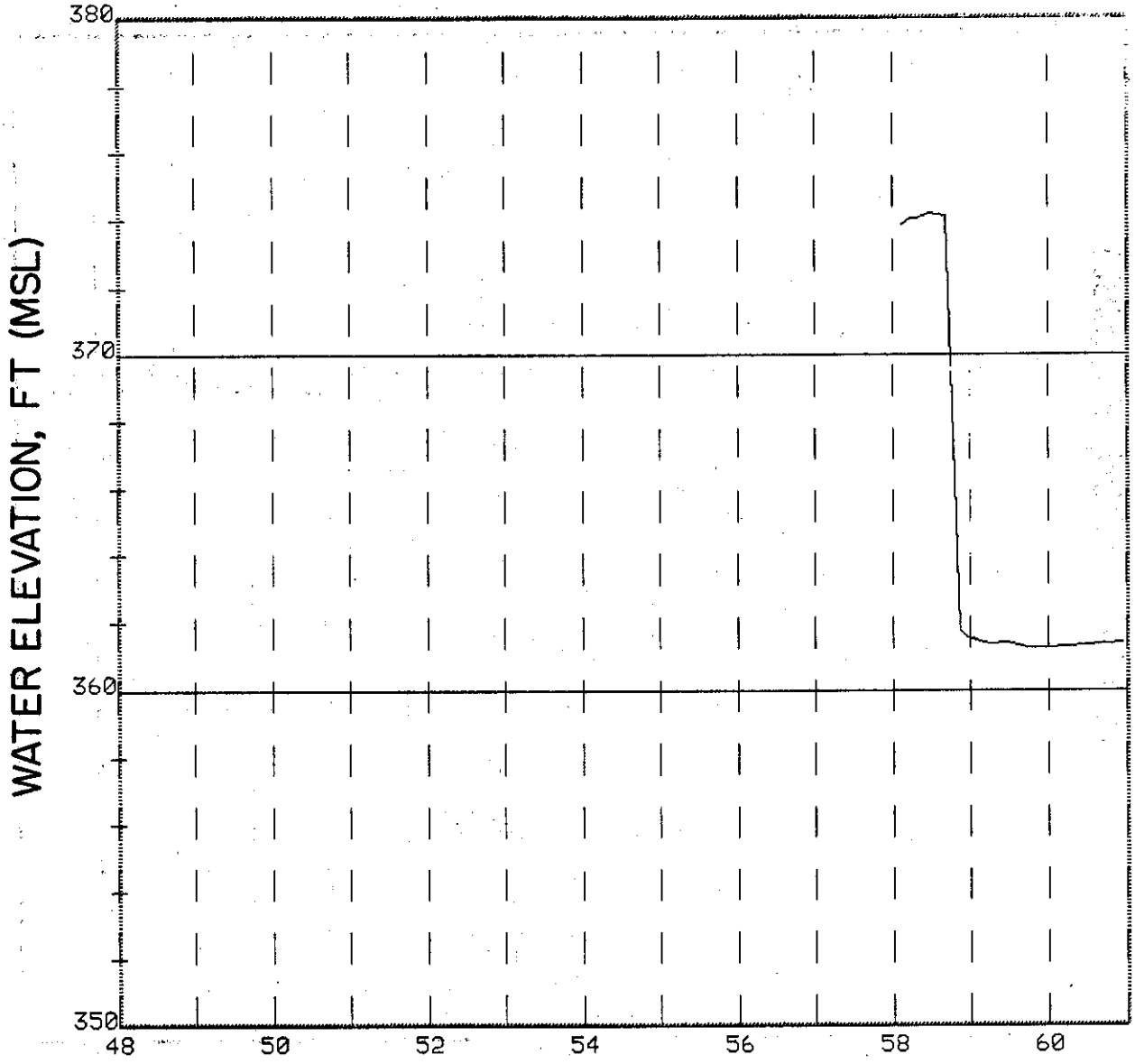
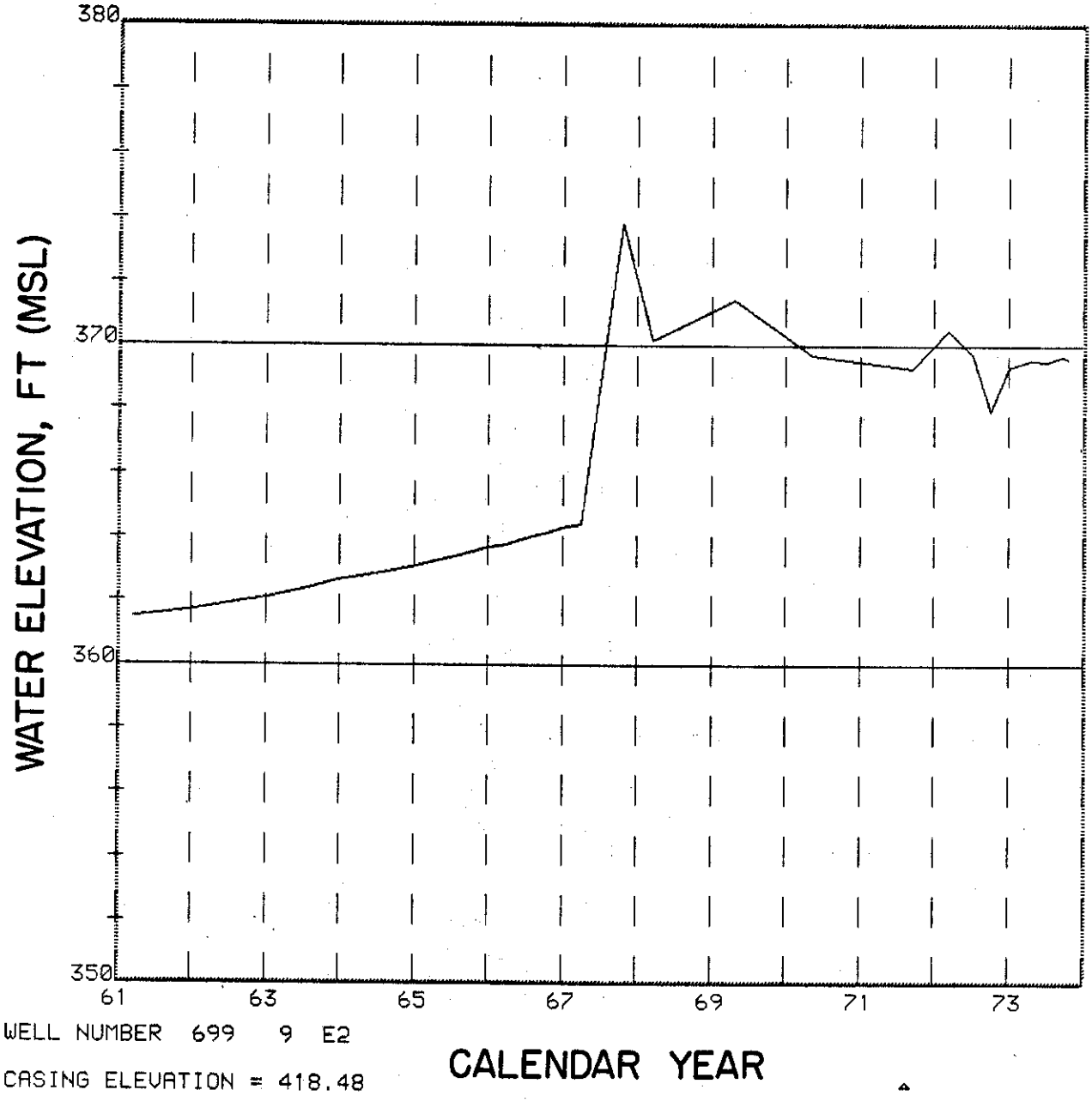


WELL NUMBER 699 9 E2

CASING ELEVATION = 418.48



WELL NUMBER 699 9 E2

CASING ELEVATION = 418.48

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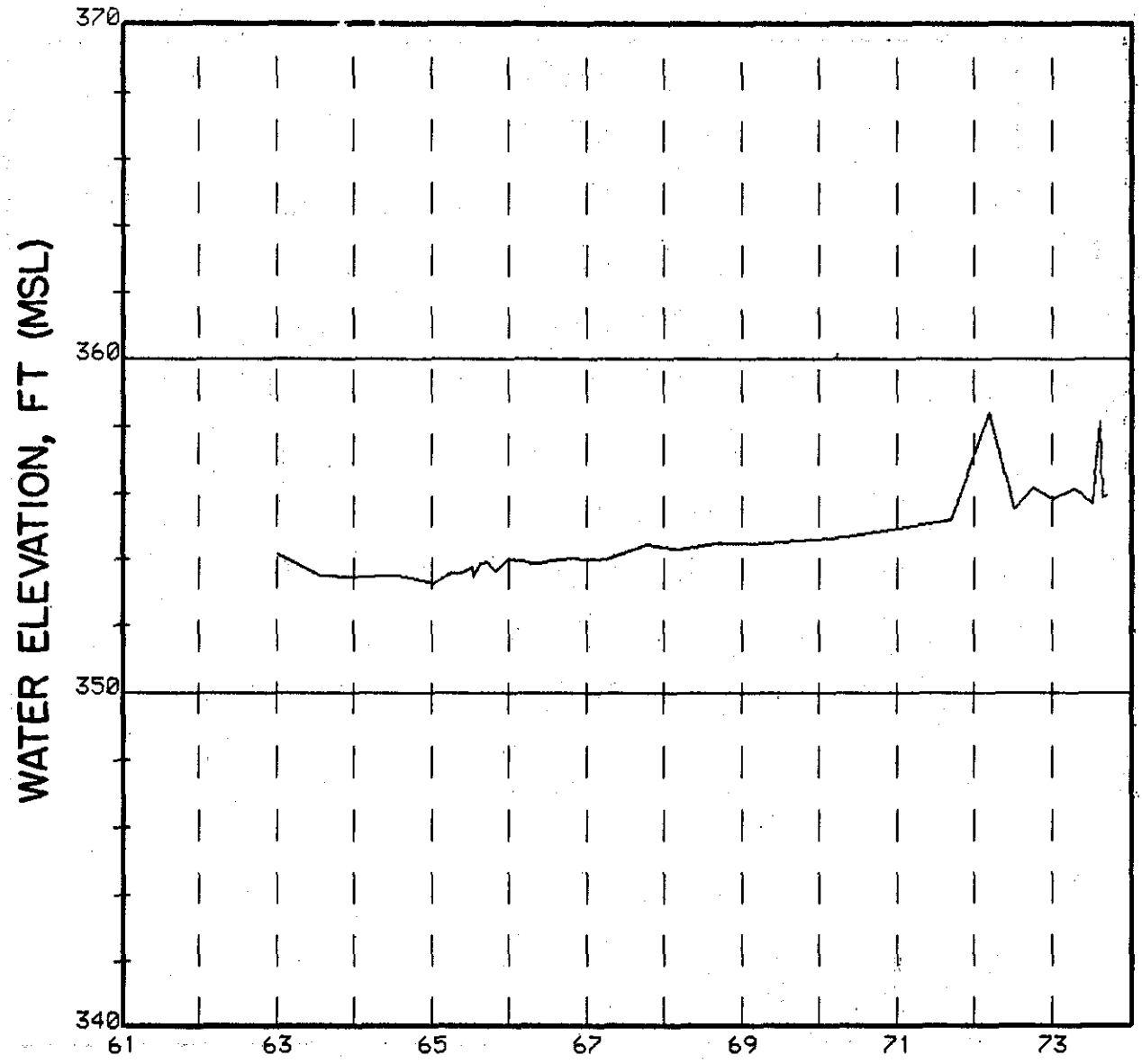

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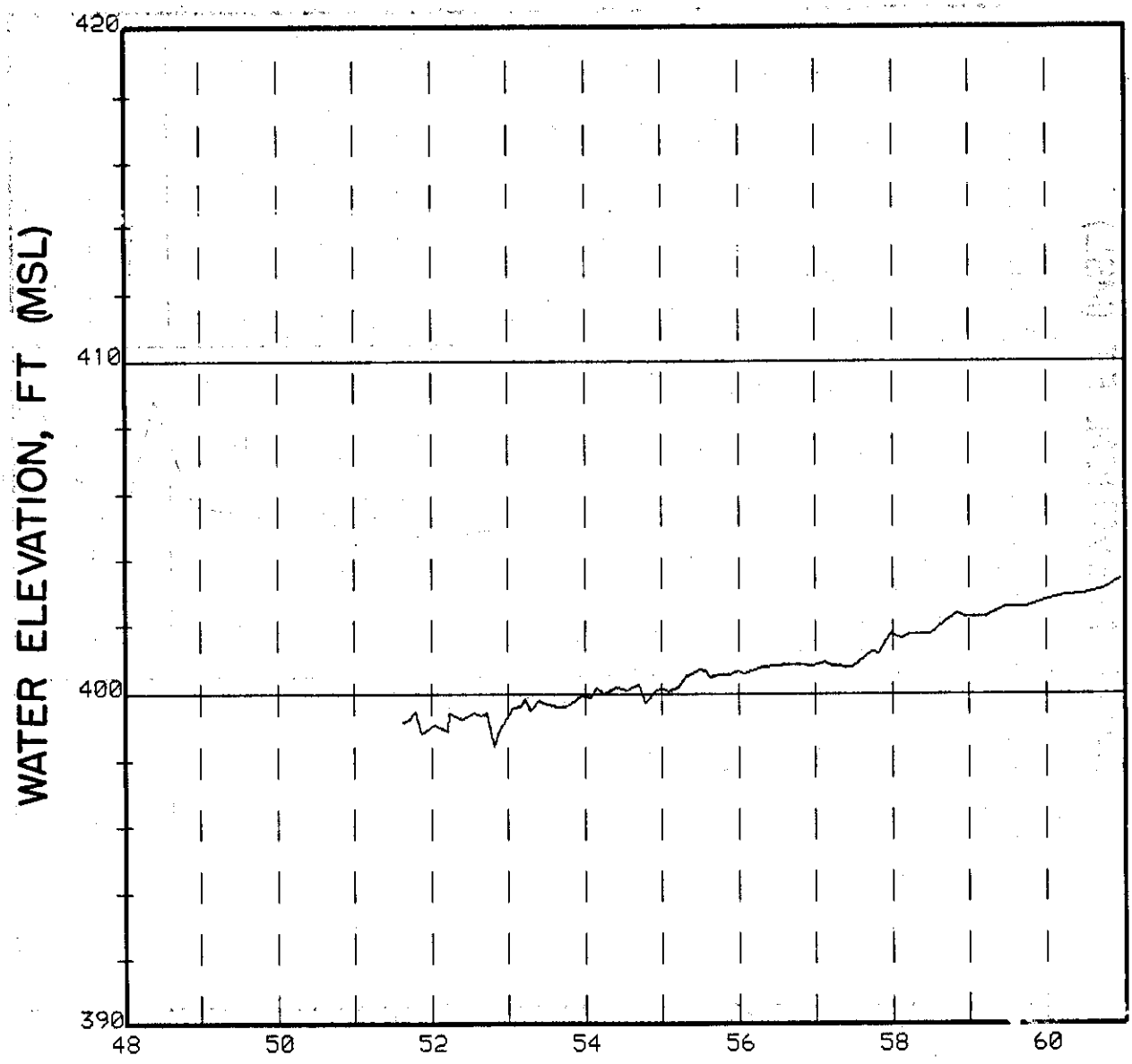

WELL NUMBER 699 10 54

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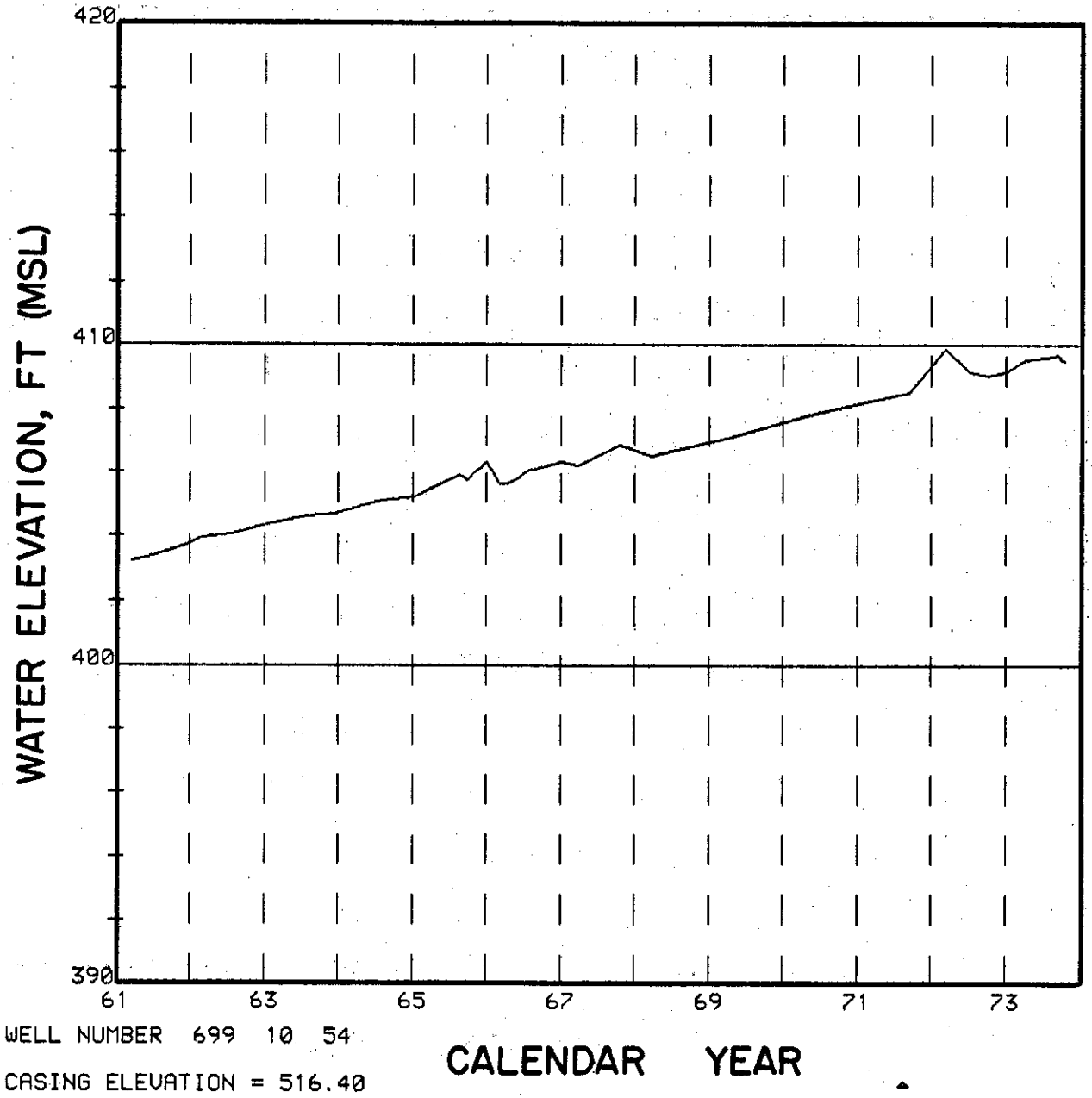

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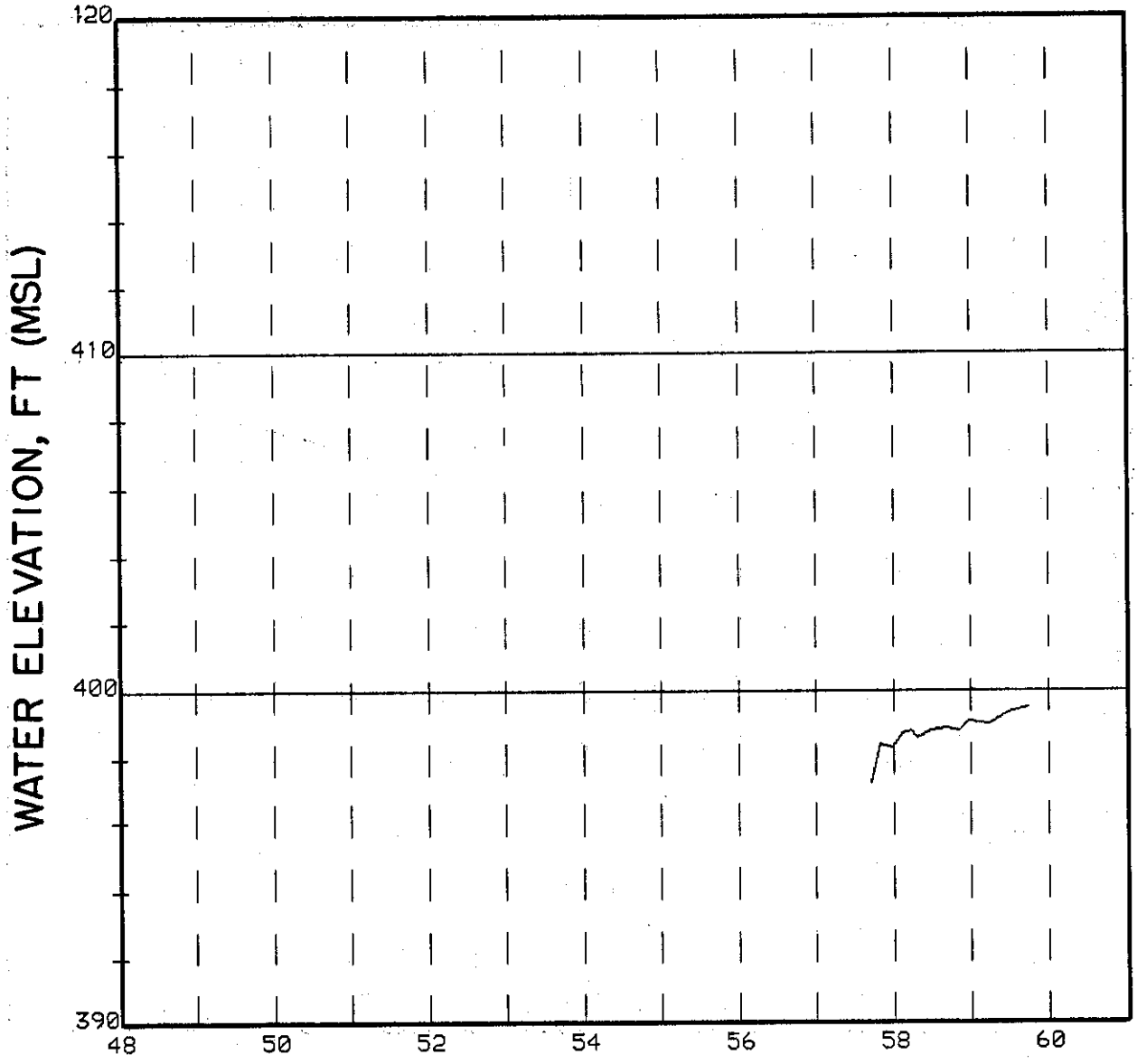

WELL NUMBER 699 11 45

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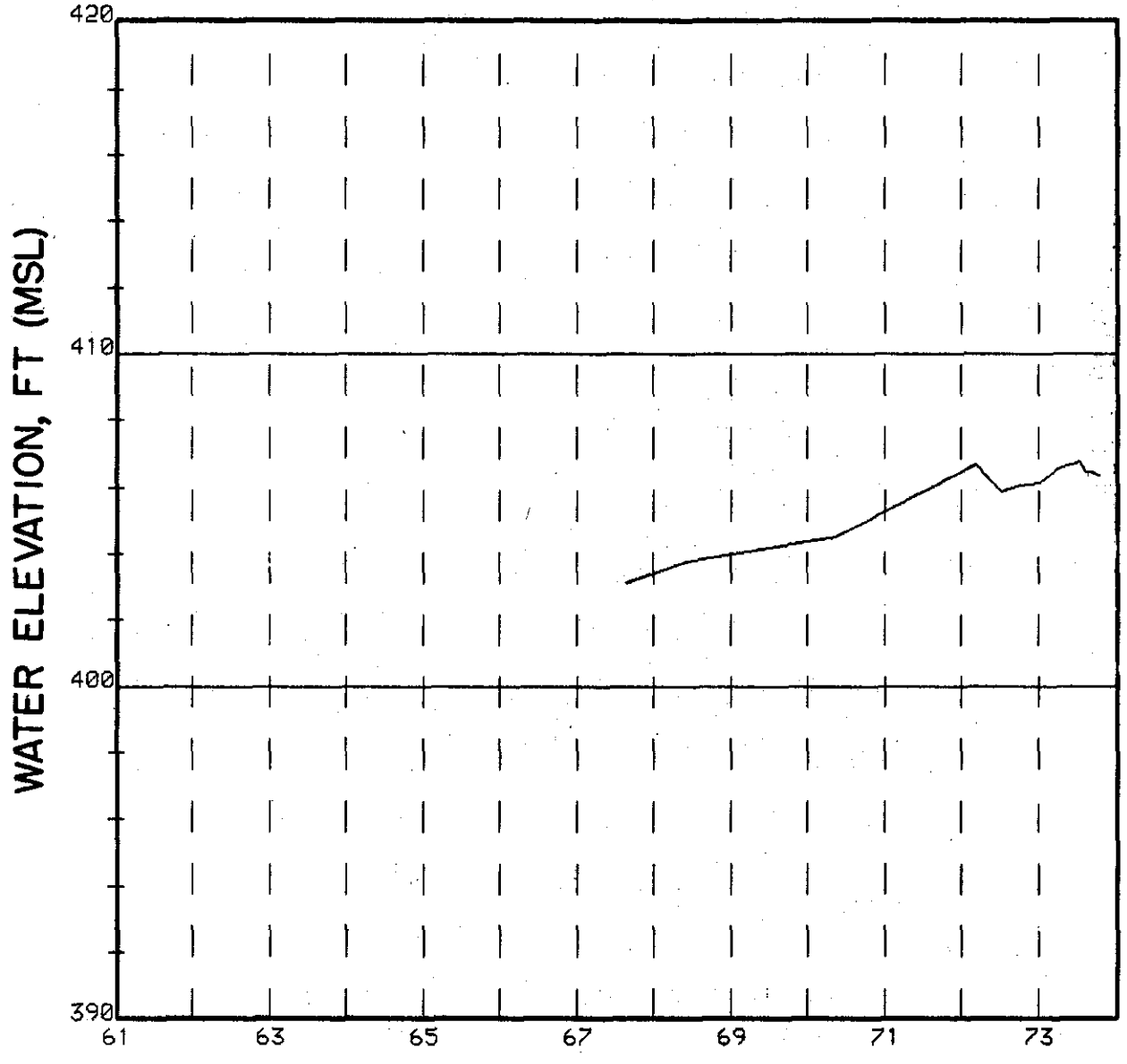

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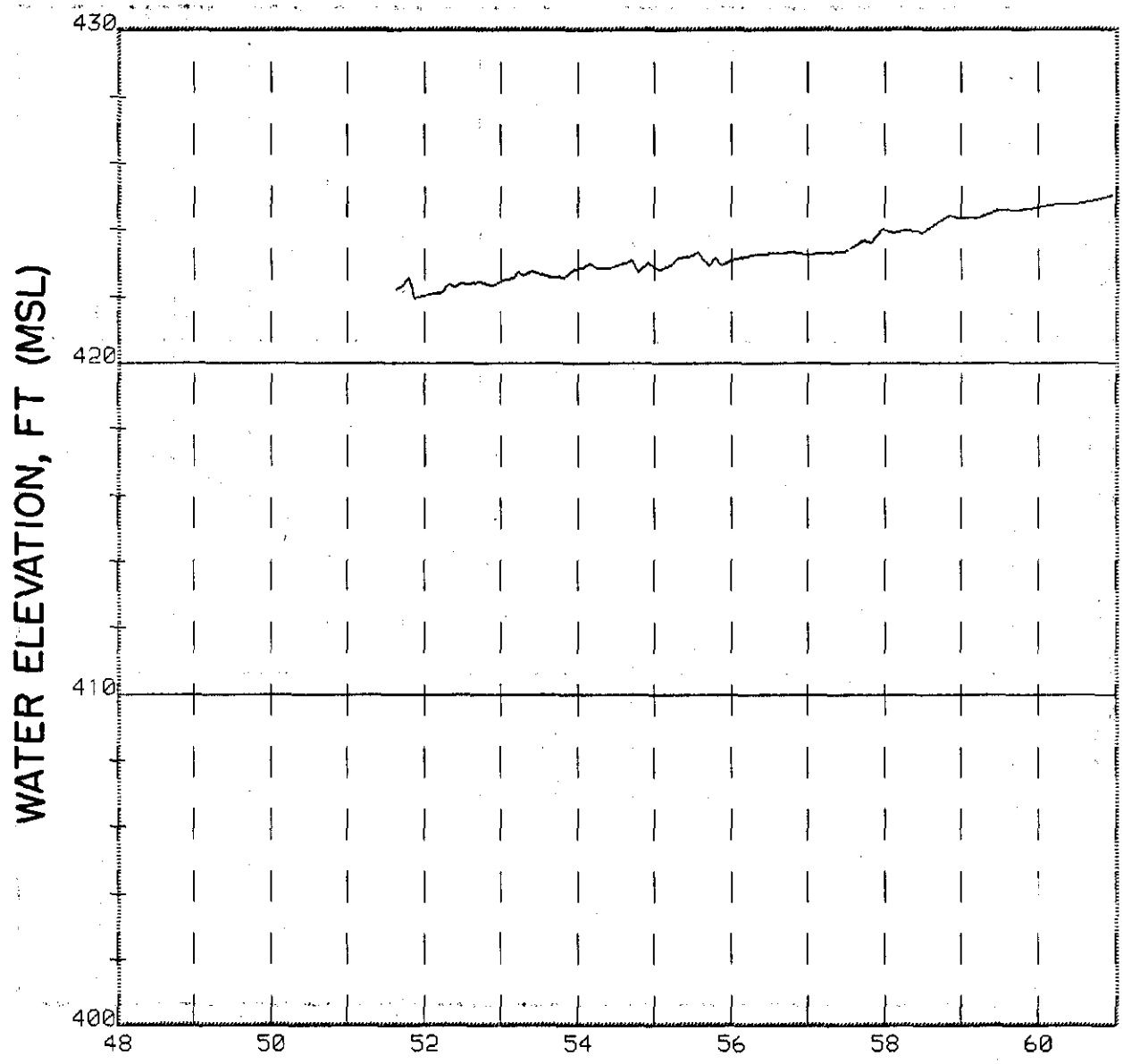

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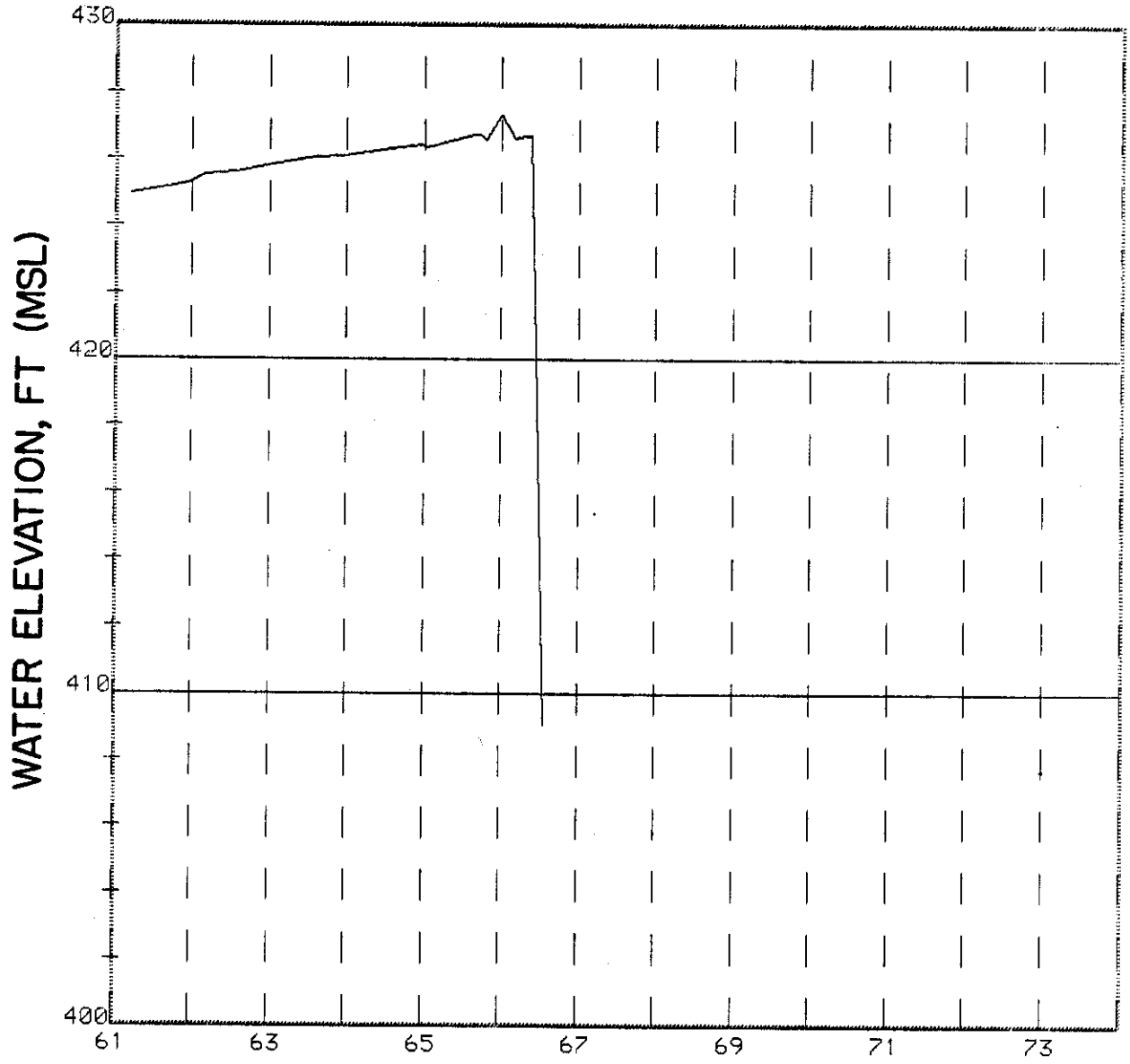

WELL NUMBER 699 13 64

CASING ELEVATION = 552.07

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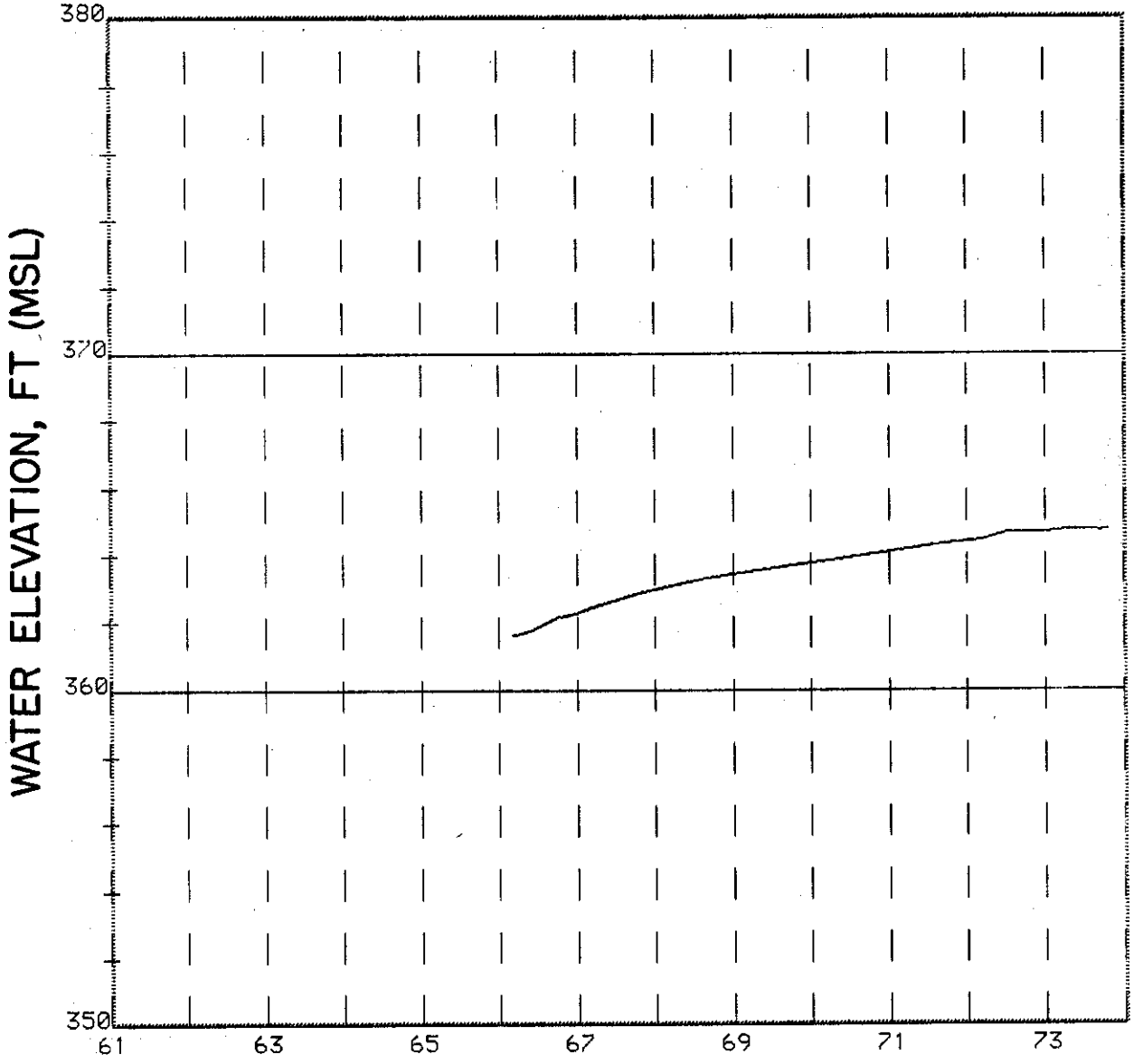
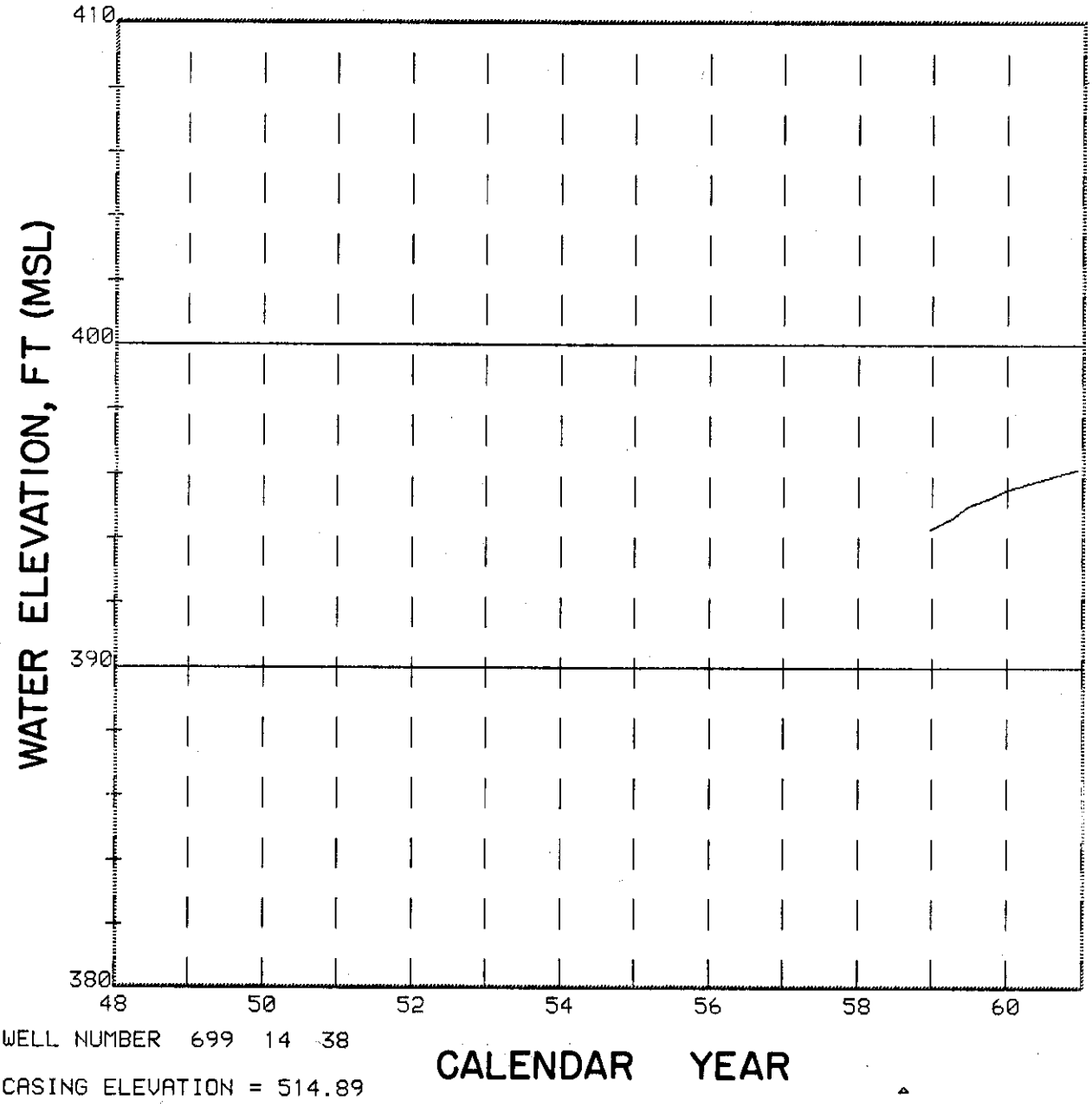


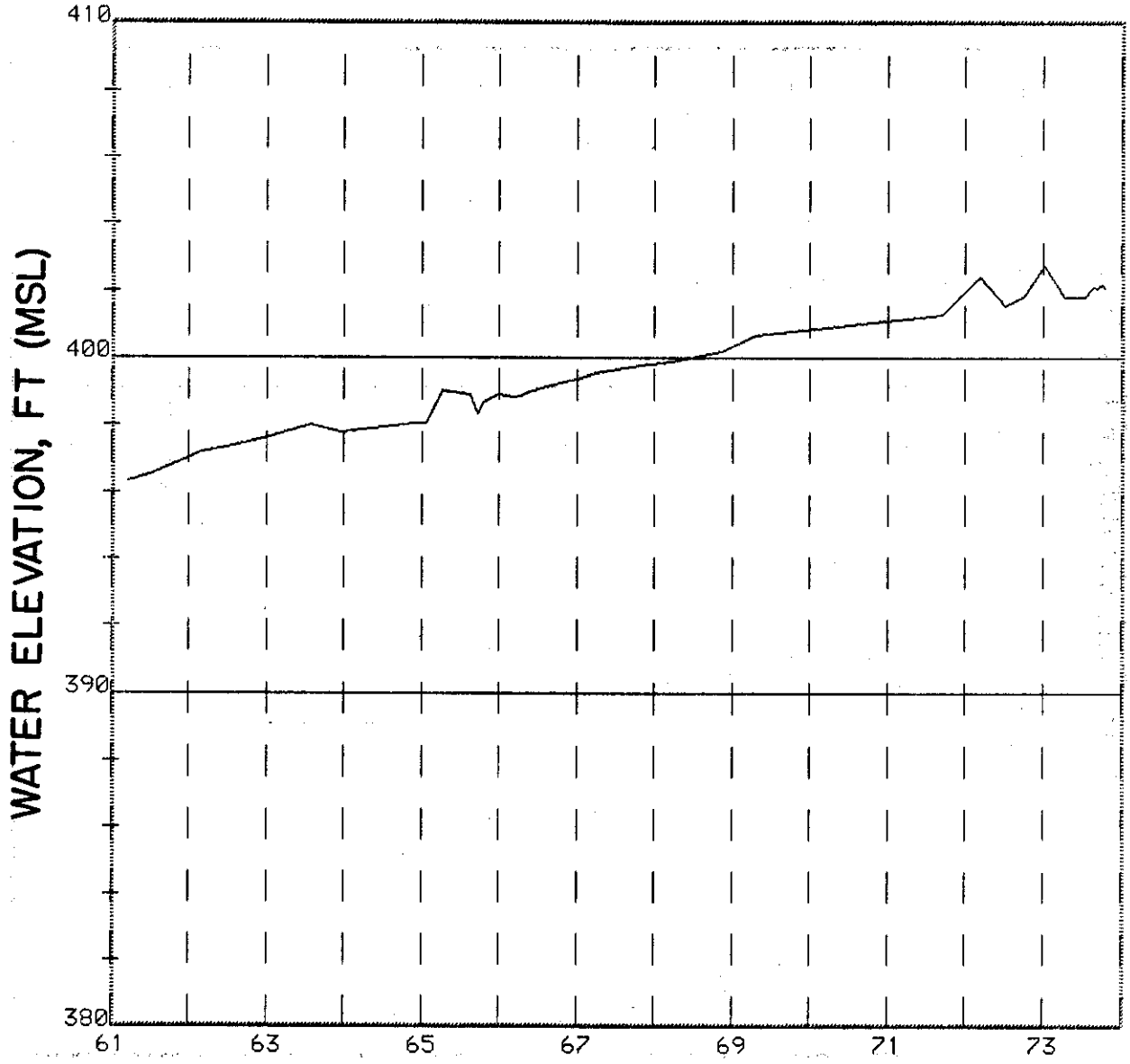
WELL NUMBER 699 14 E6T

CASING ELEVATION = 458.38



WELL NUMBER 699 14 38

CASING ELEVATION = 514.89



WELL NUMBER 699 14 38

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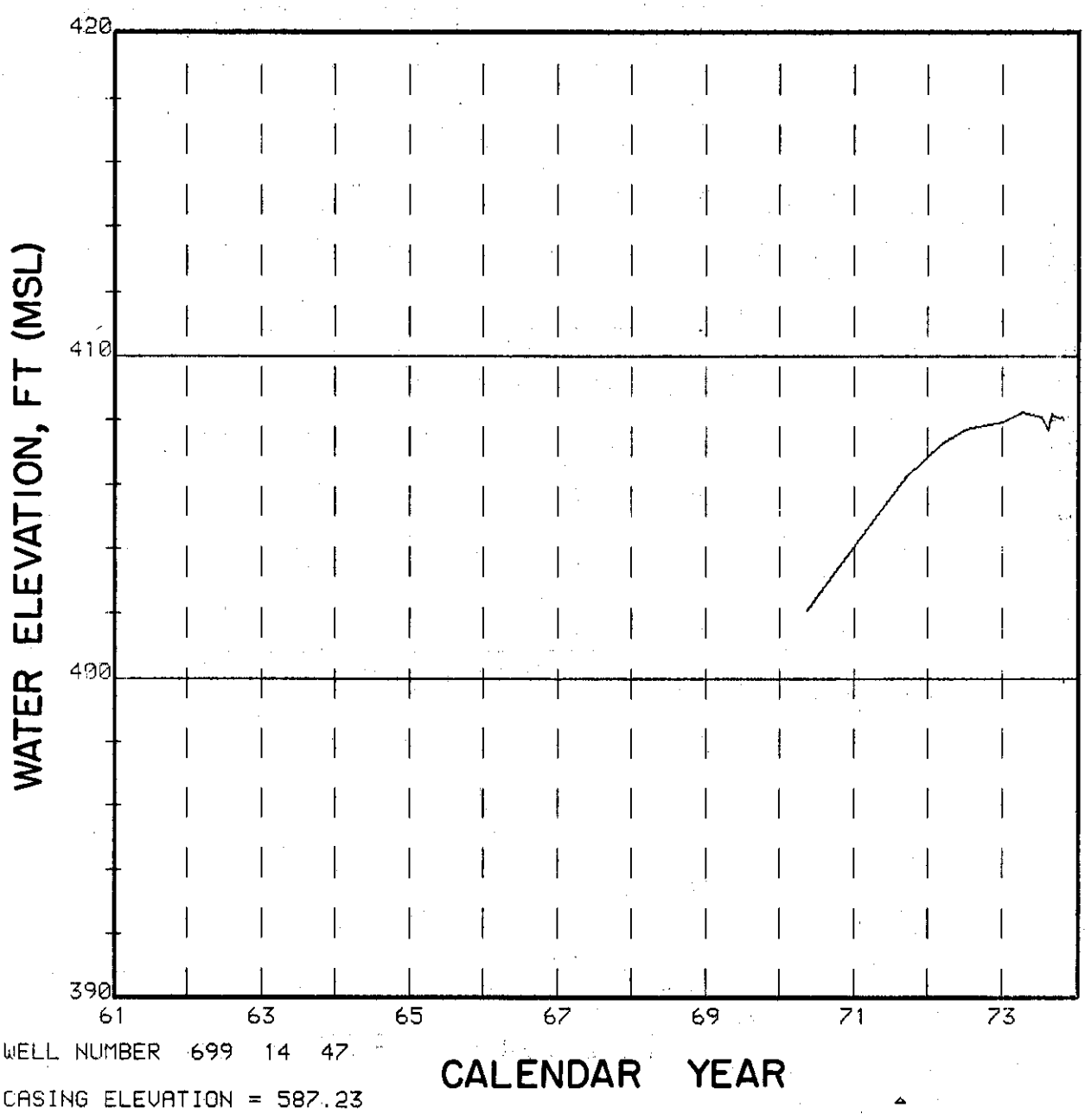

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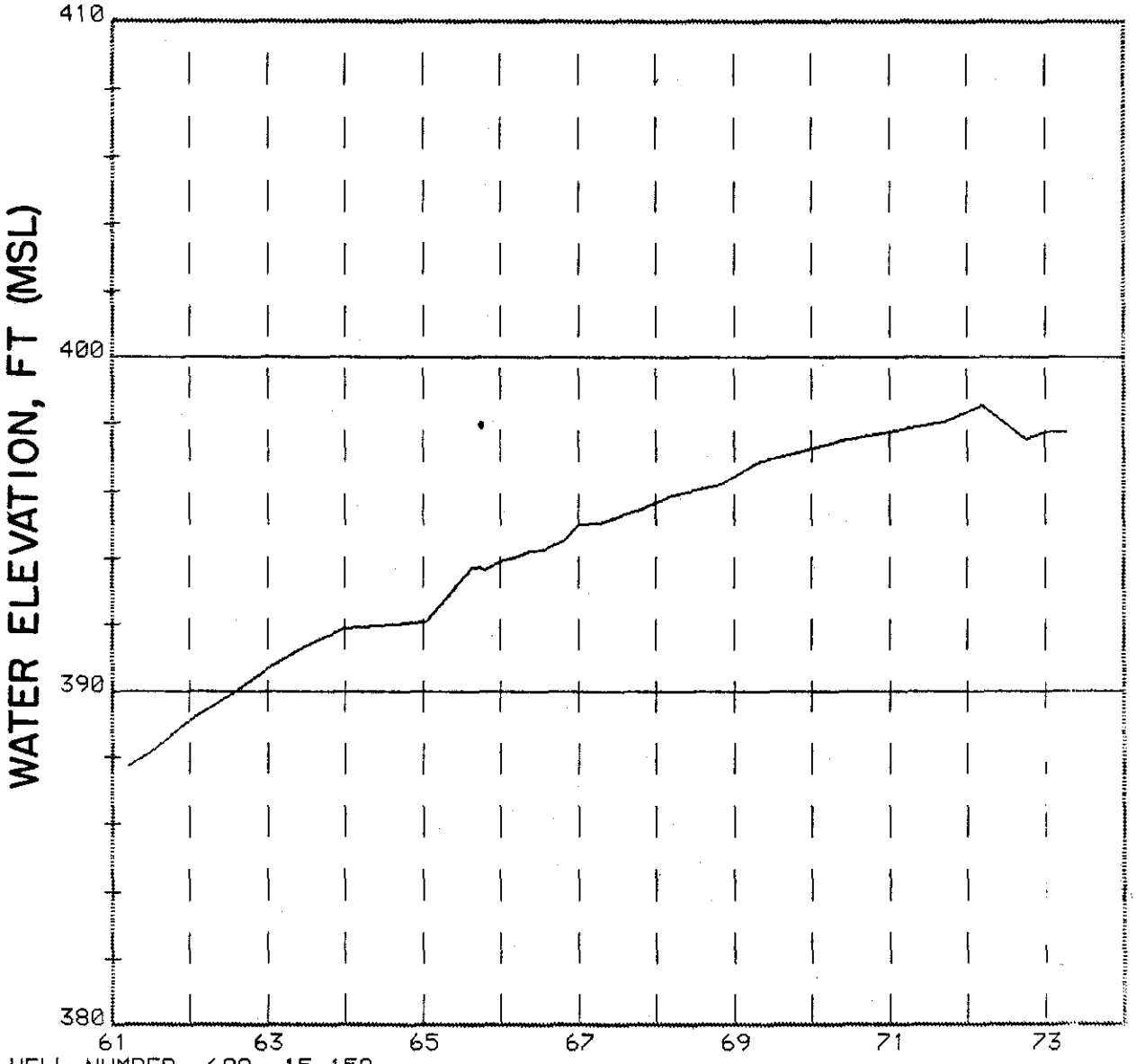

WELL NUMBER 699 15 15A

CASING ELEVATION = 547.14

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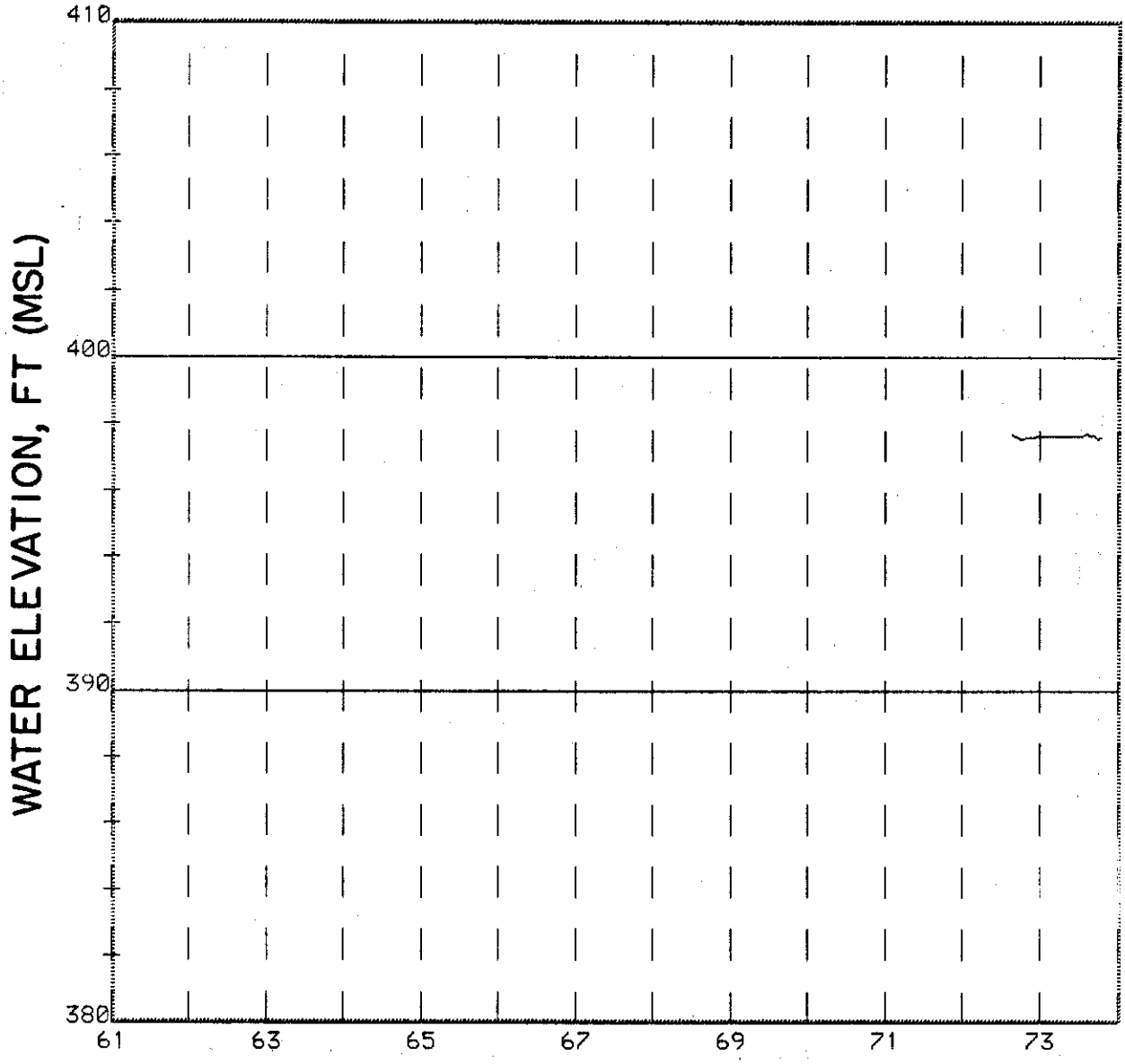

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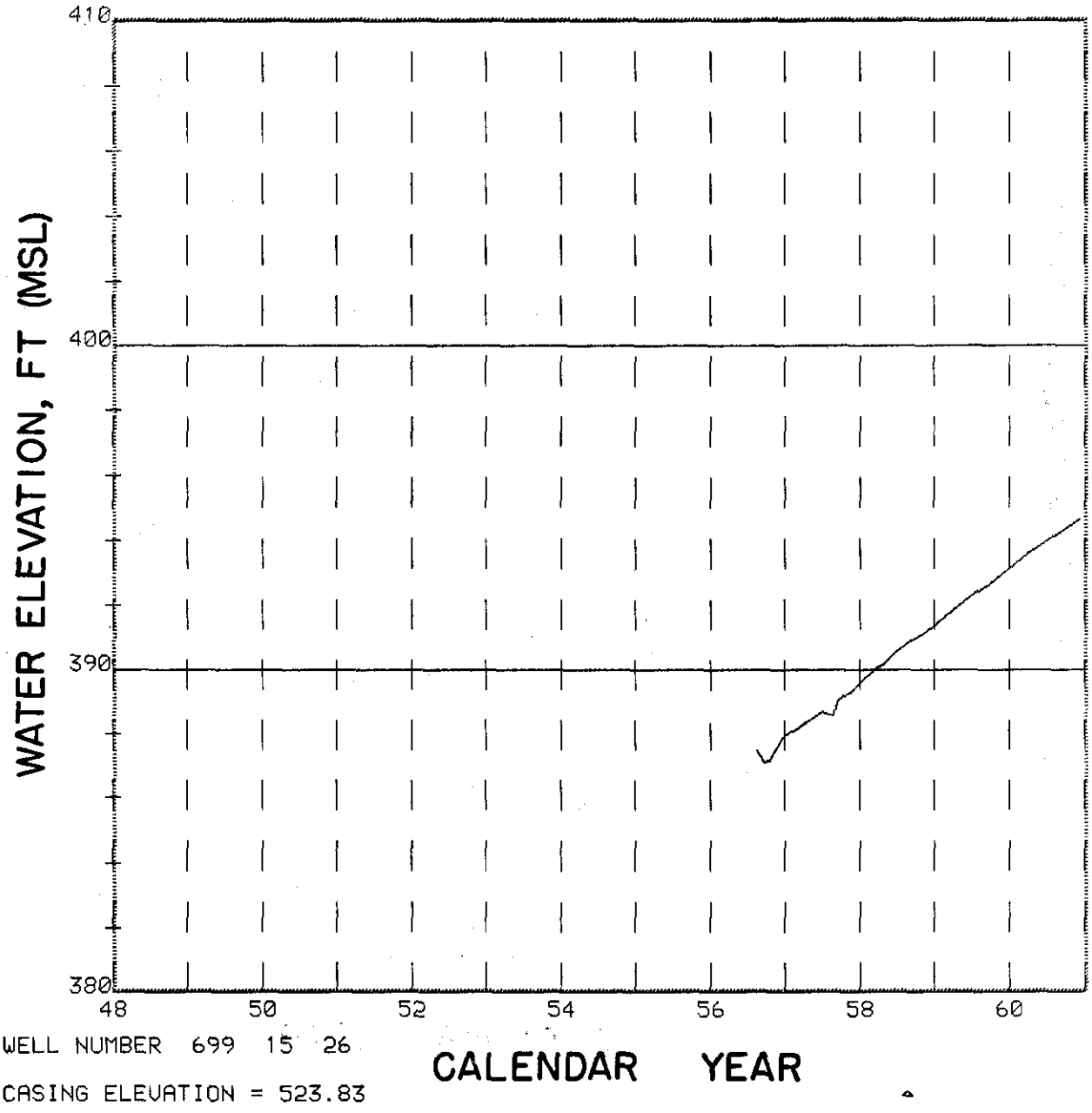

WELL NUMBER 699 15 26

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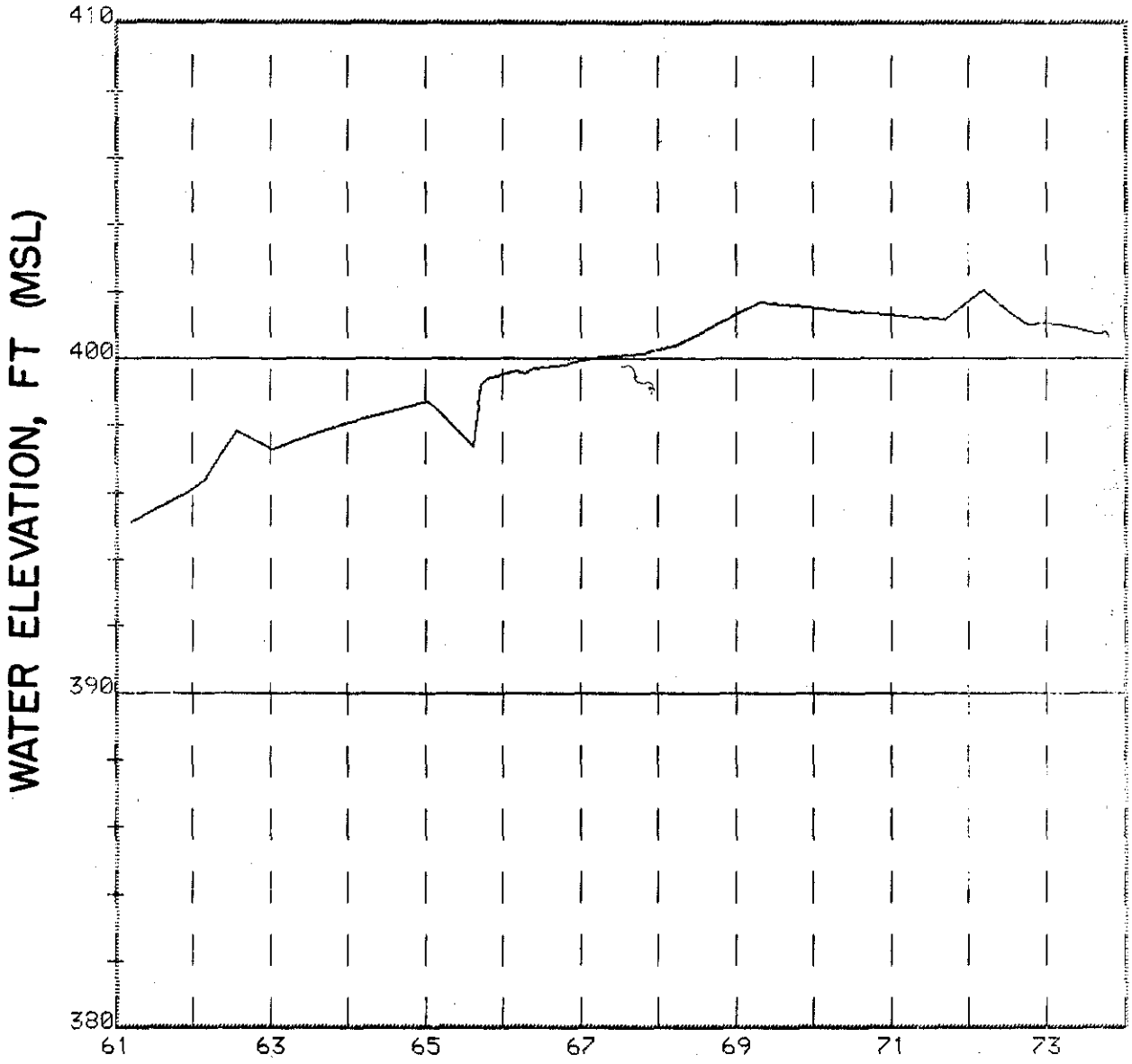

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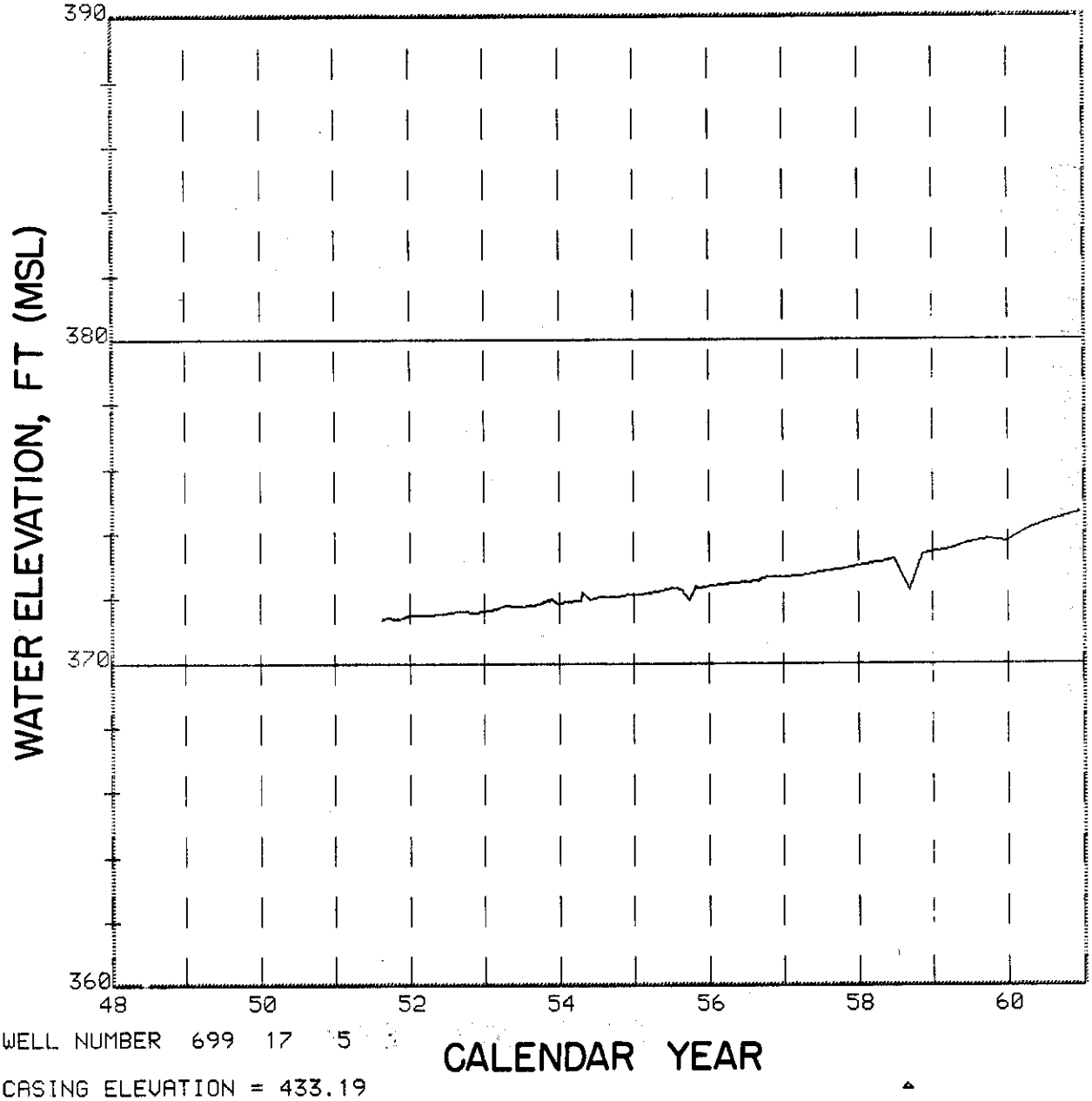

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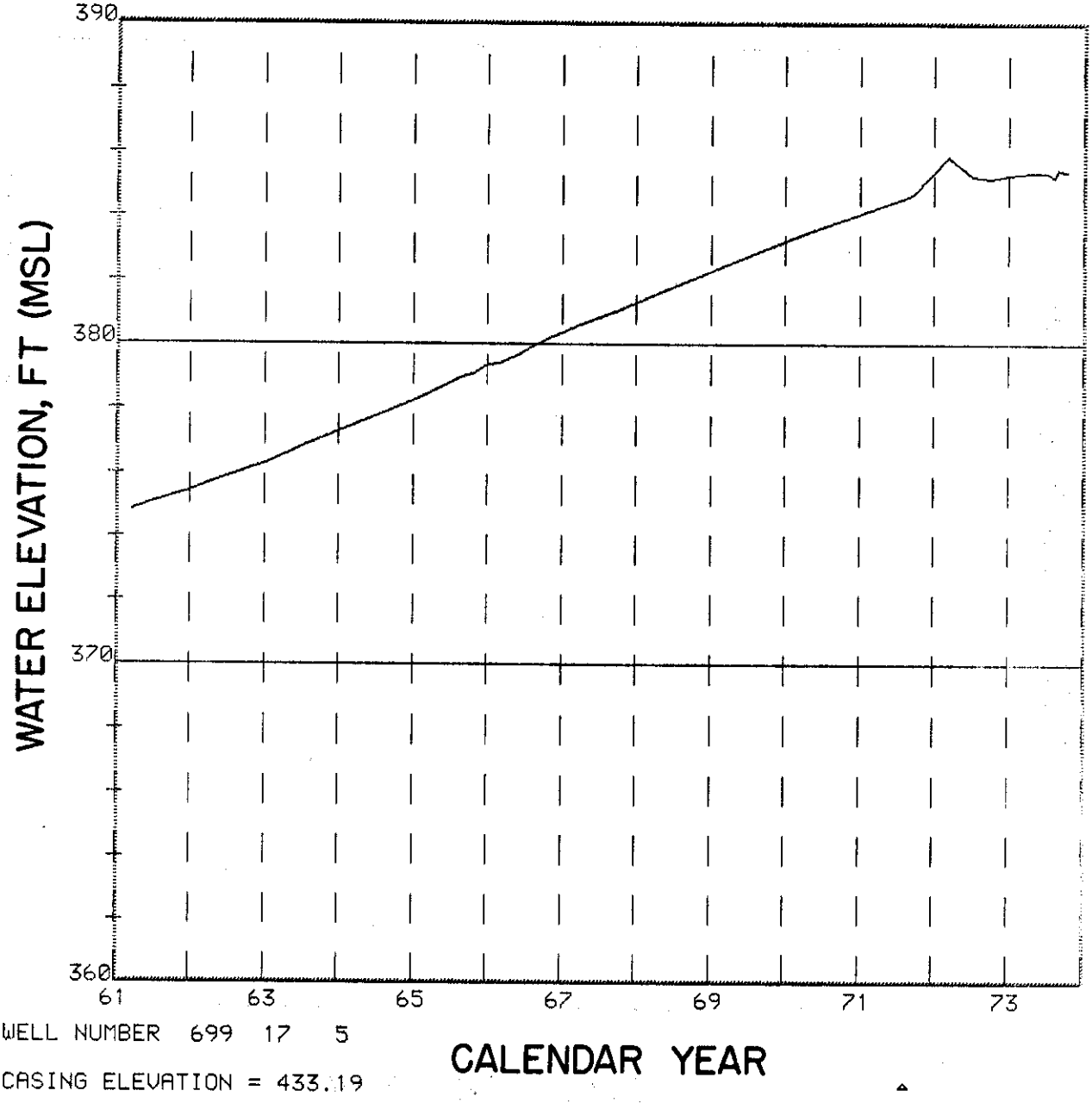

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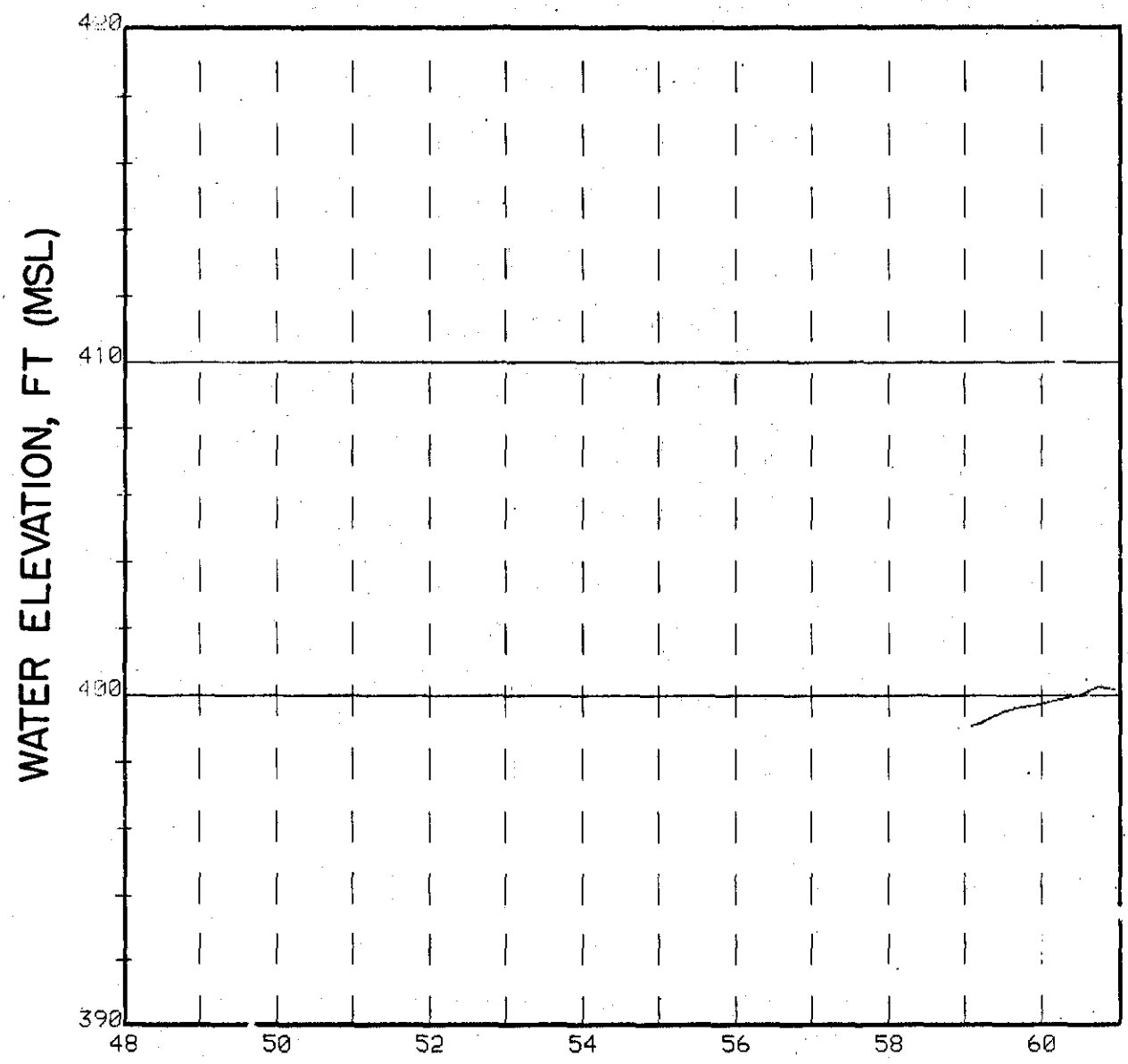
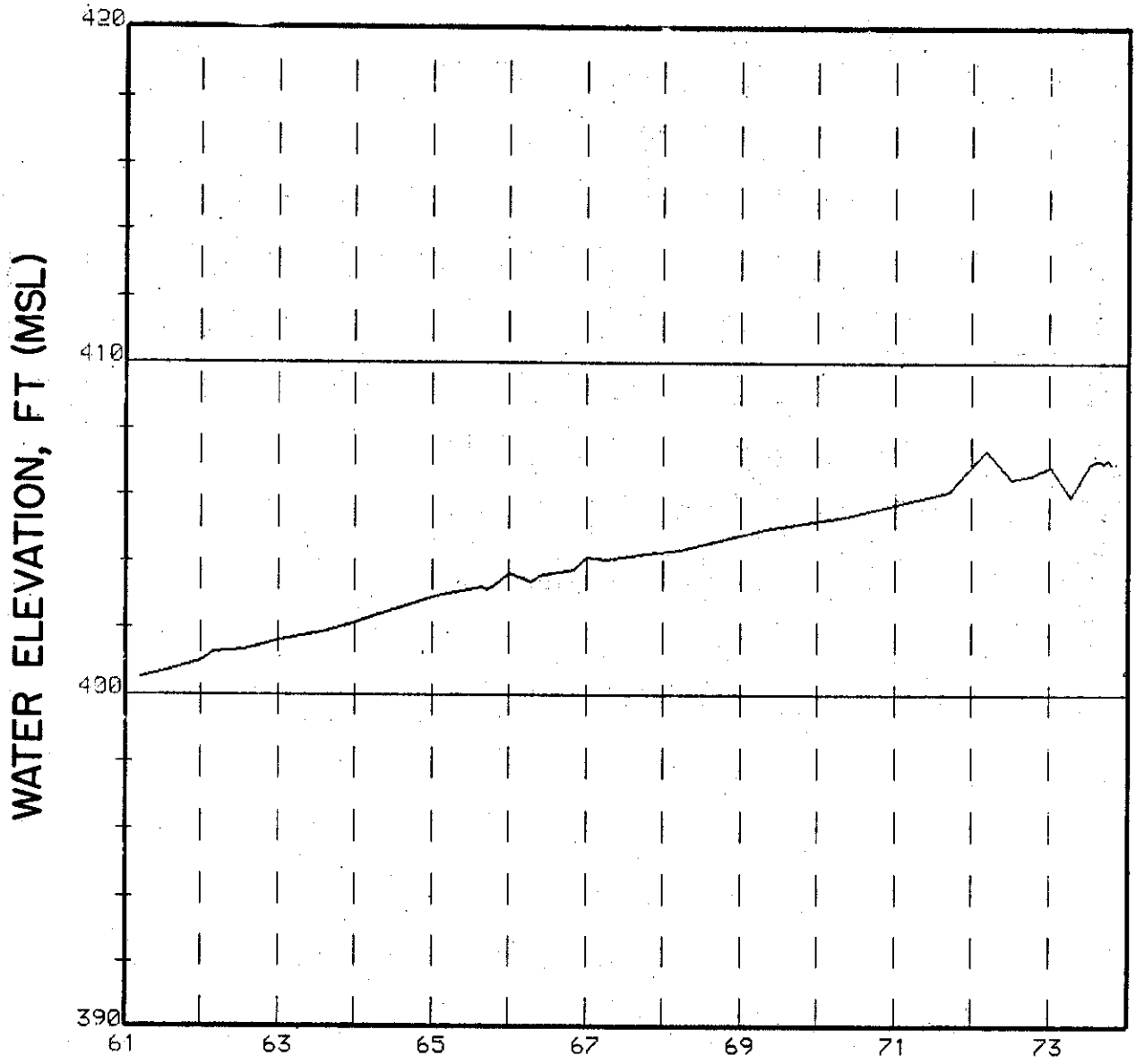


WELL NUMBER 699 17 47

CASING ELEVATION = 578.81



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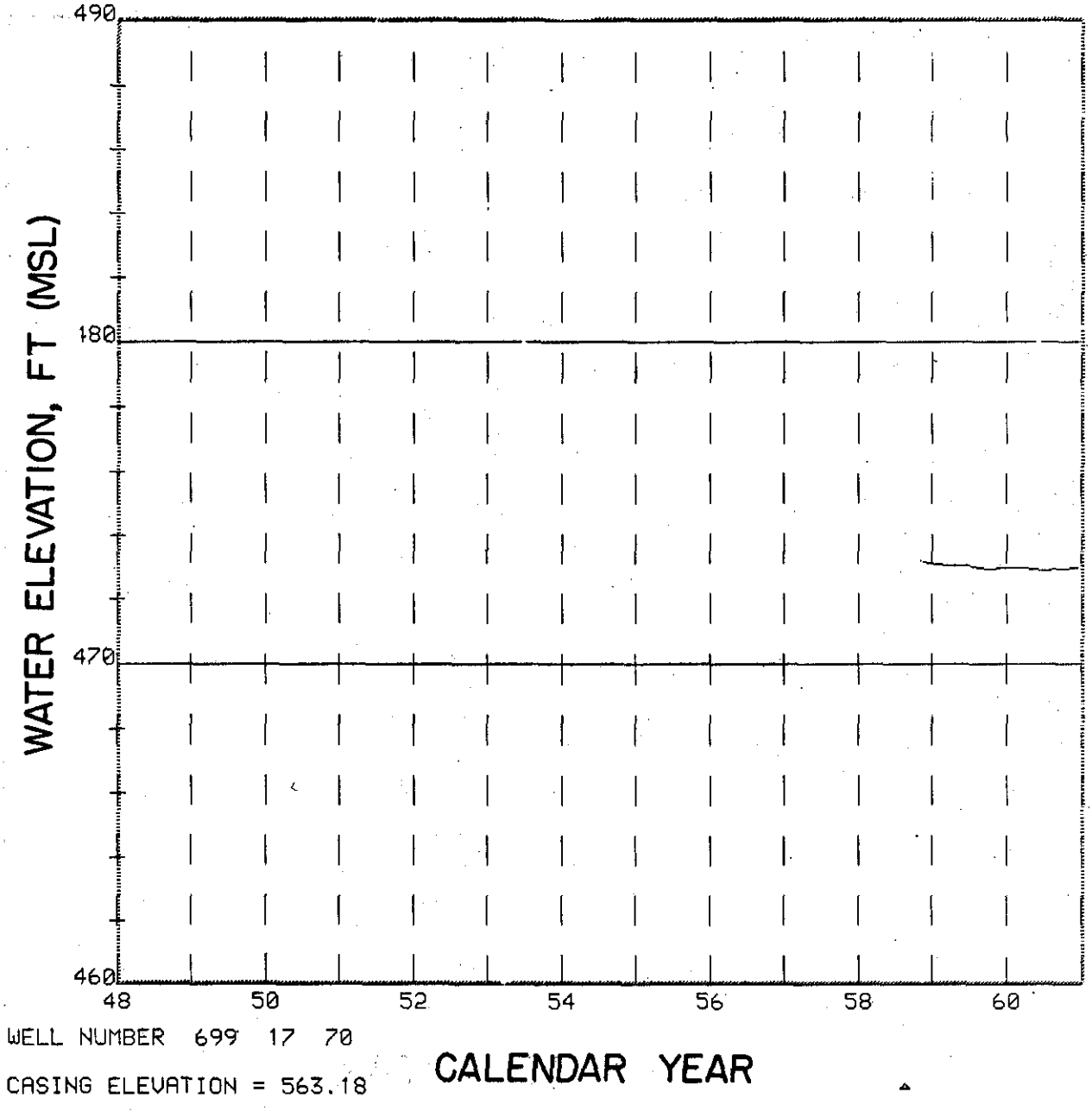
CASING ELEVATION = 578.81



WELL NUMBER 699 17 70

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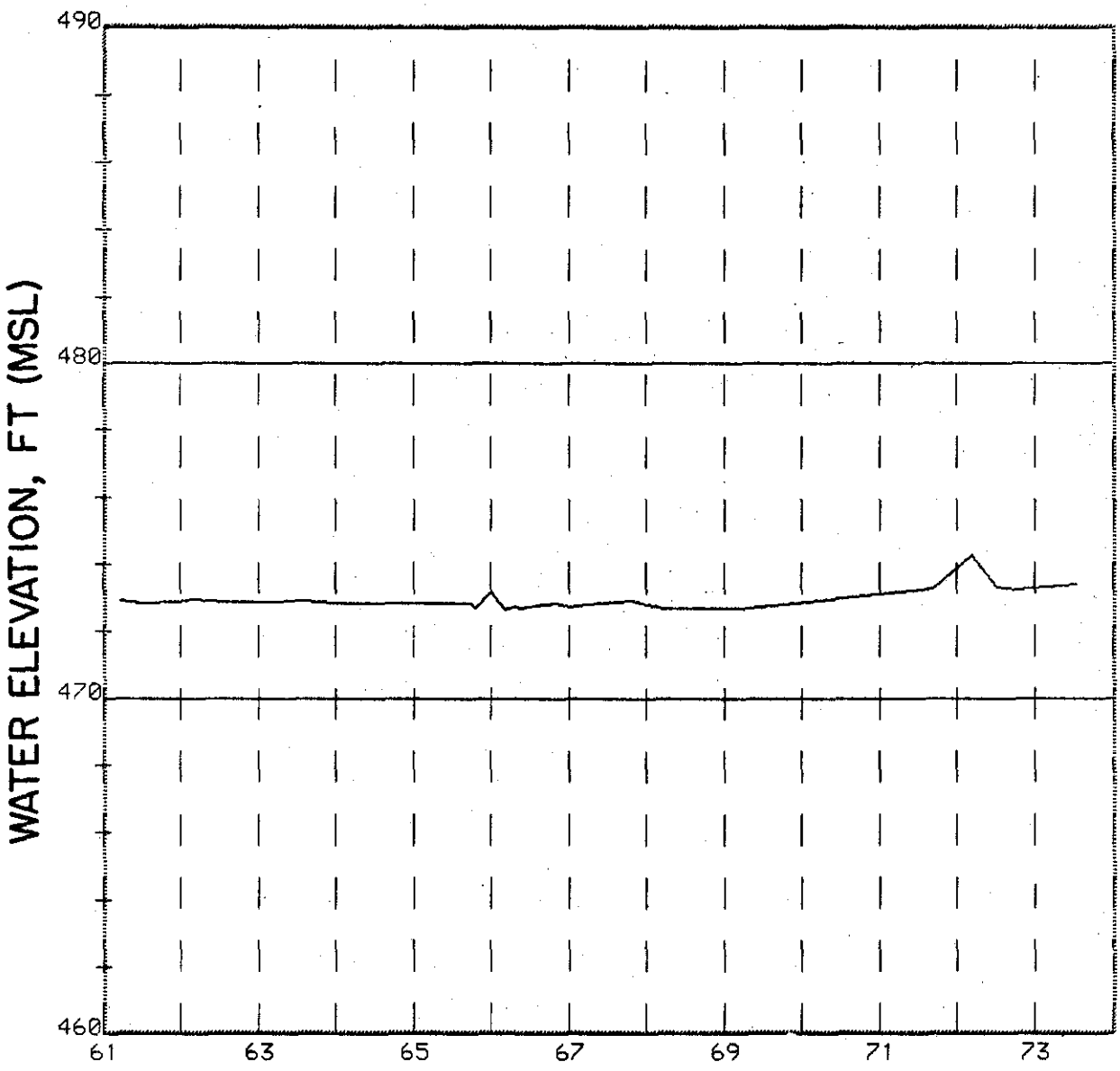

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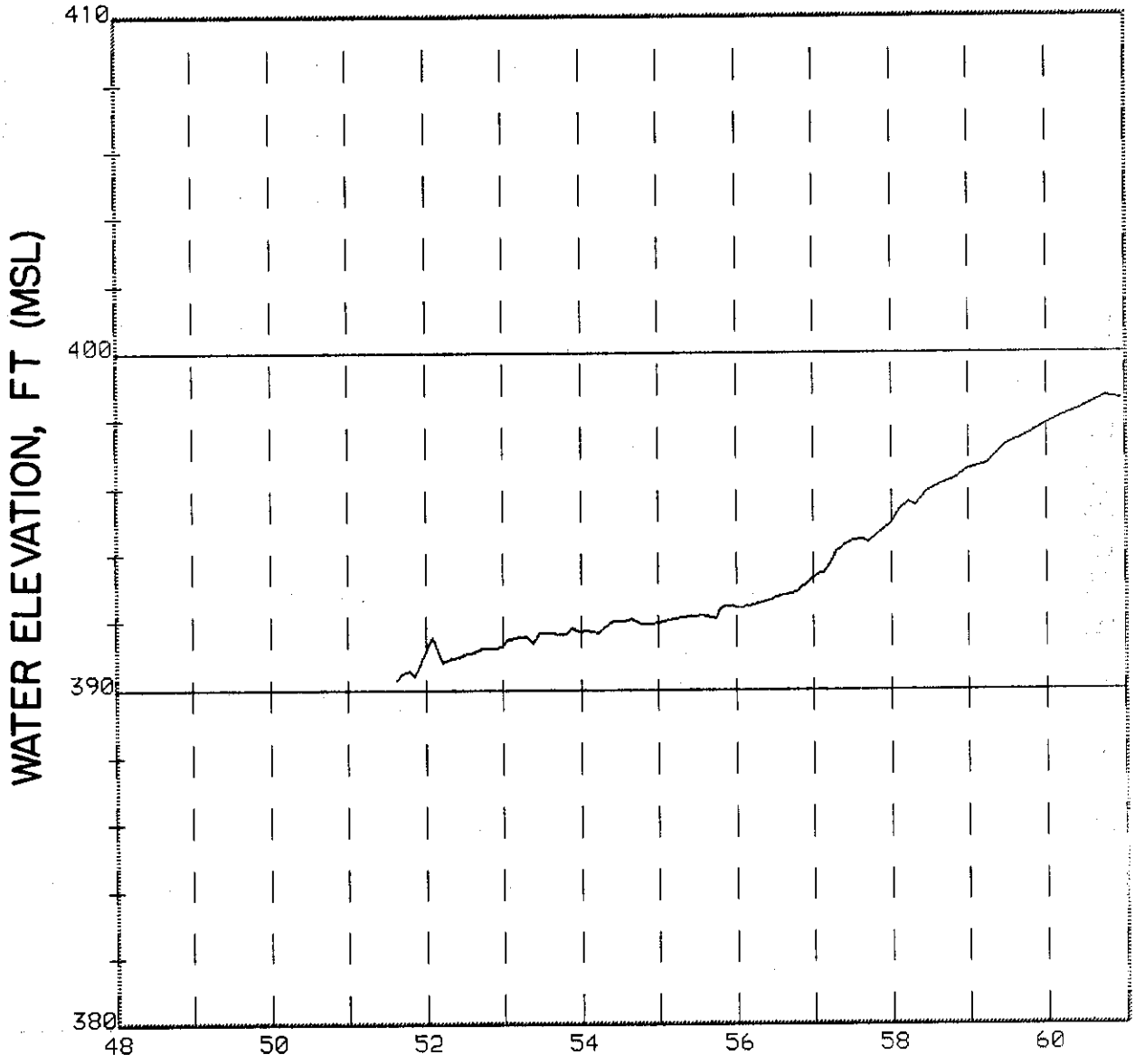

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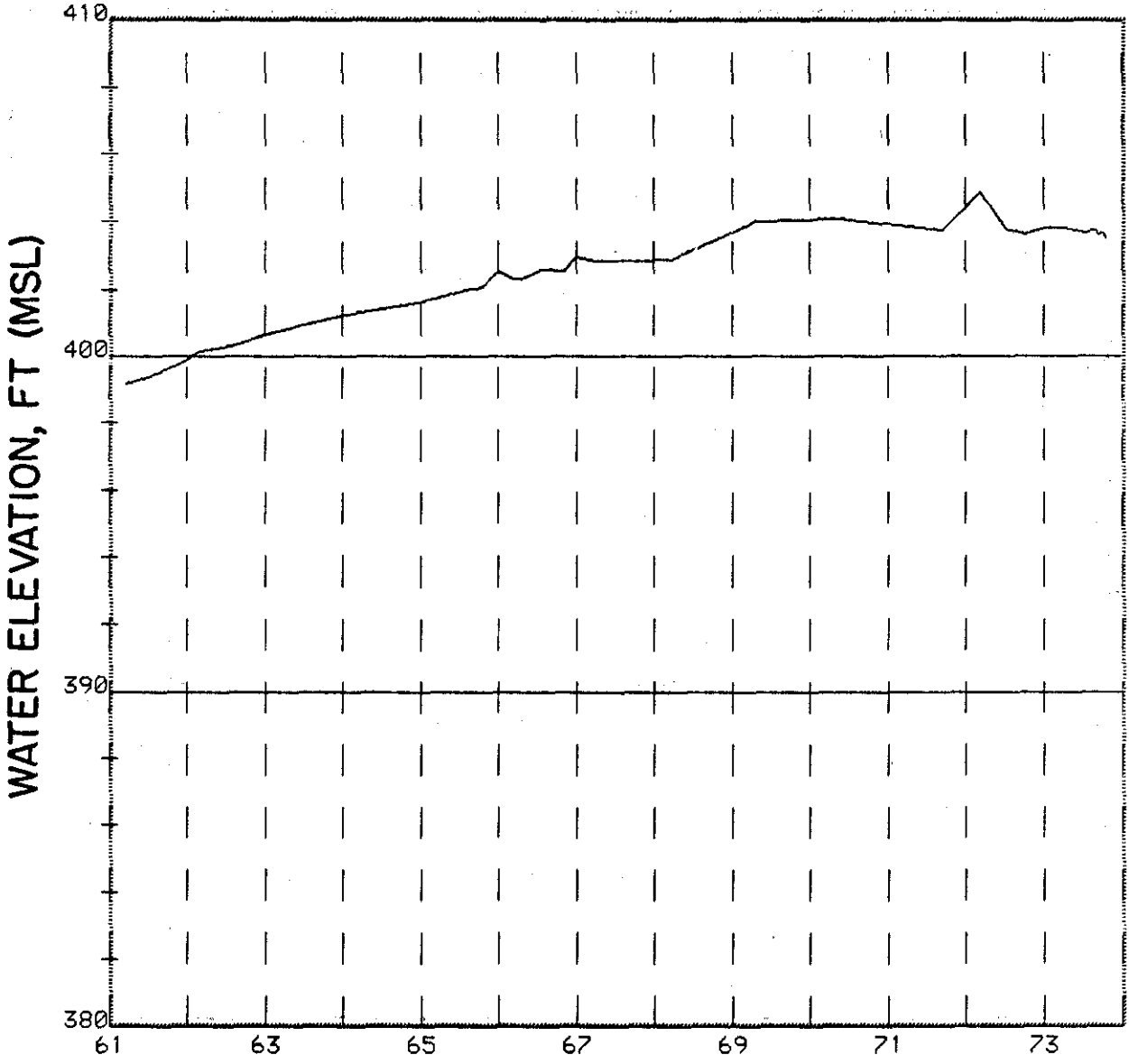

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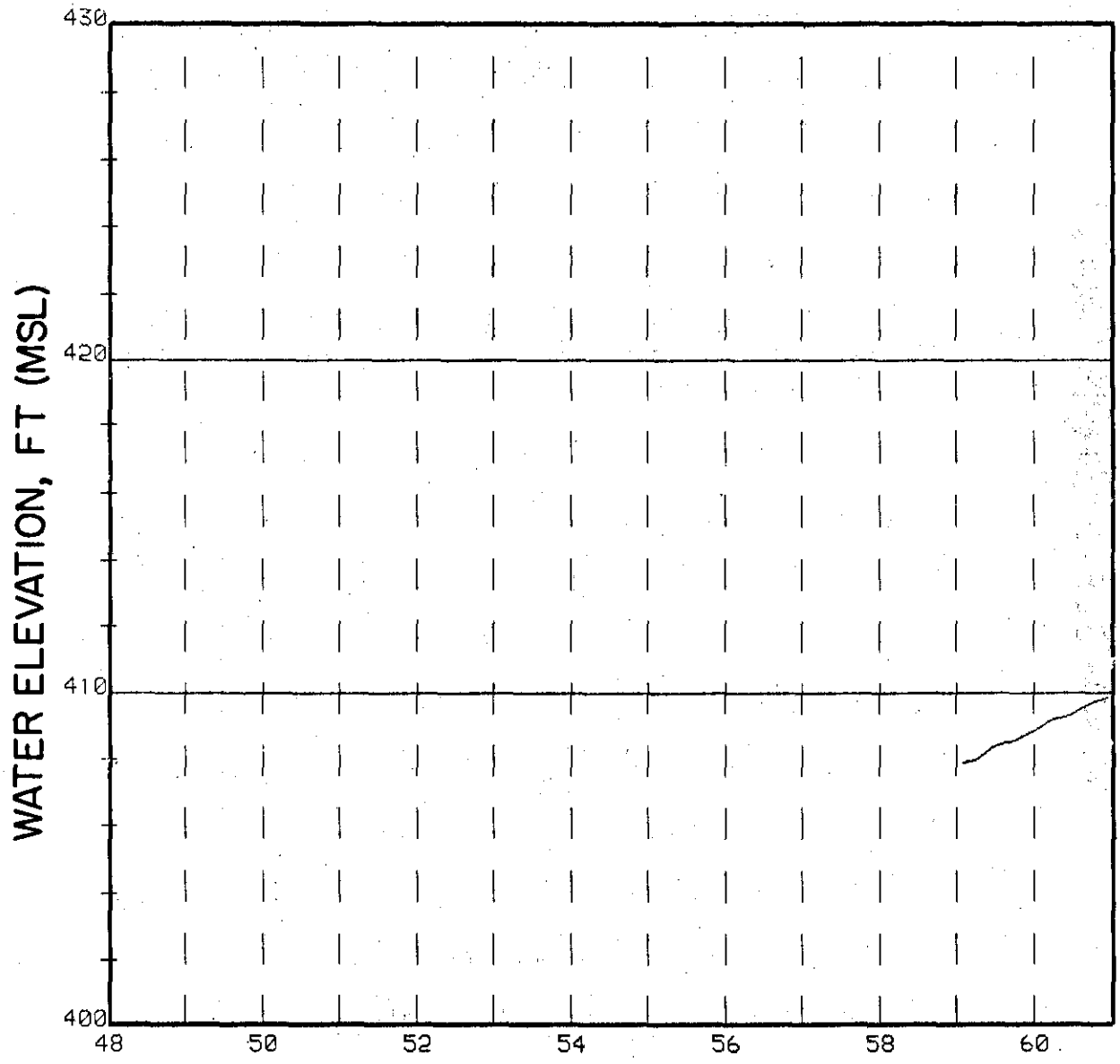

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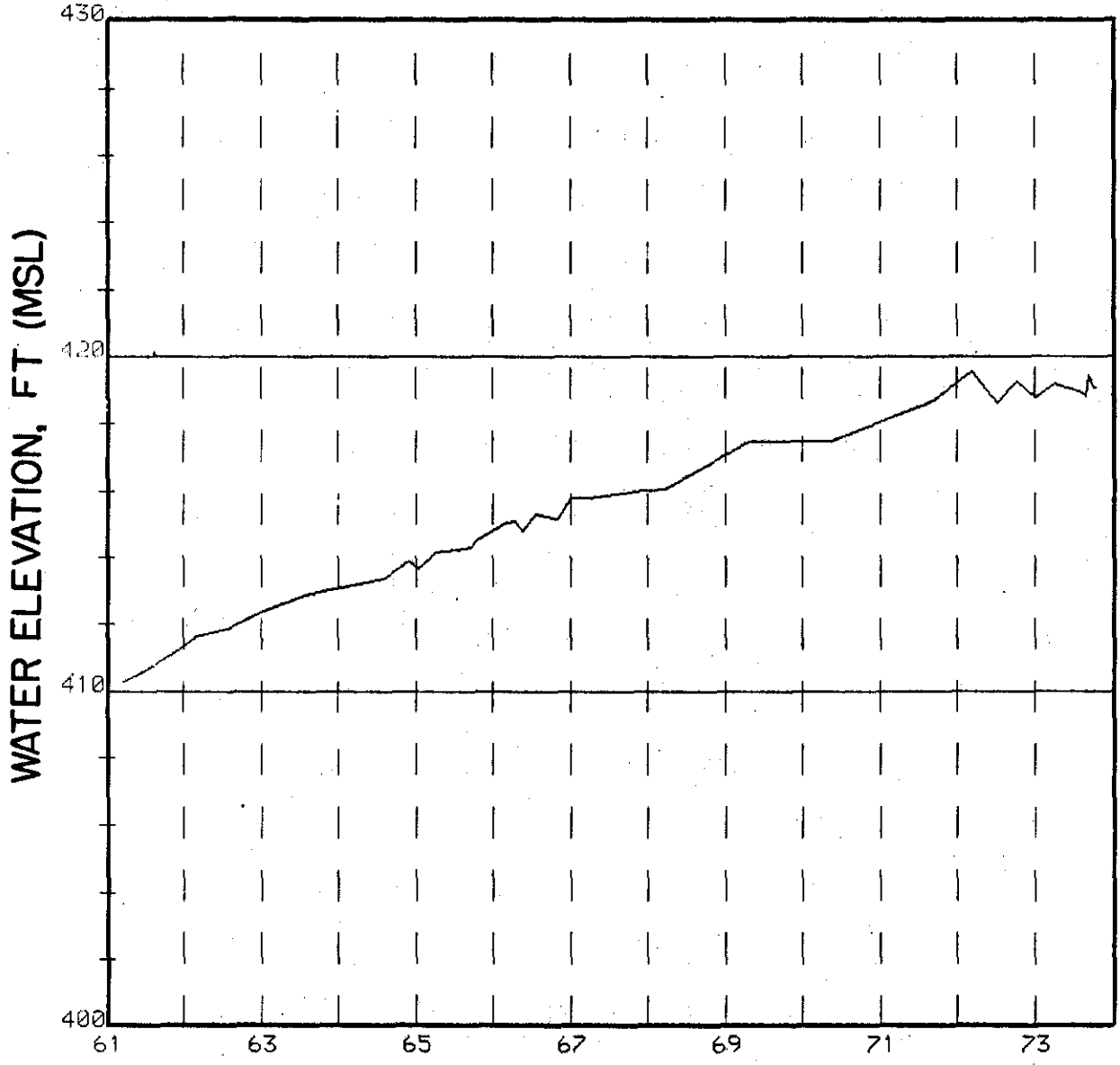

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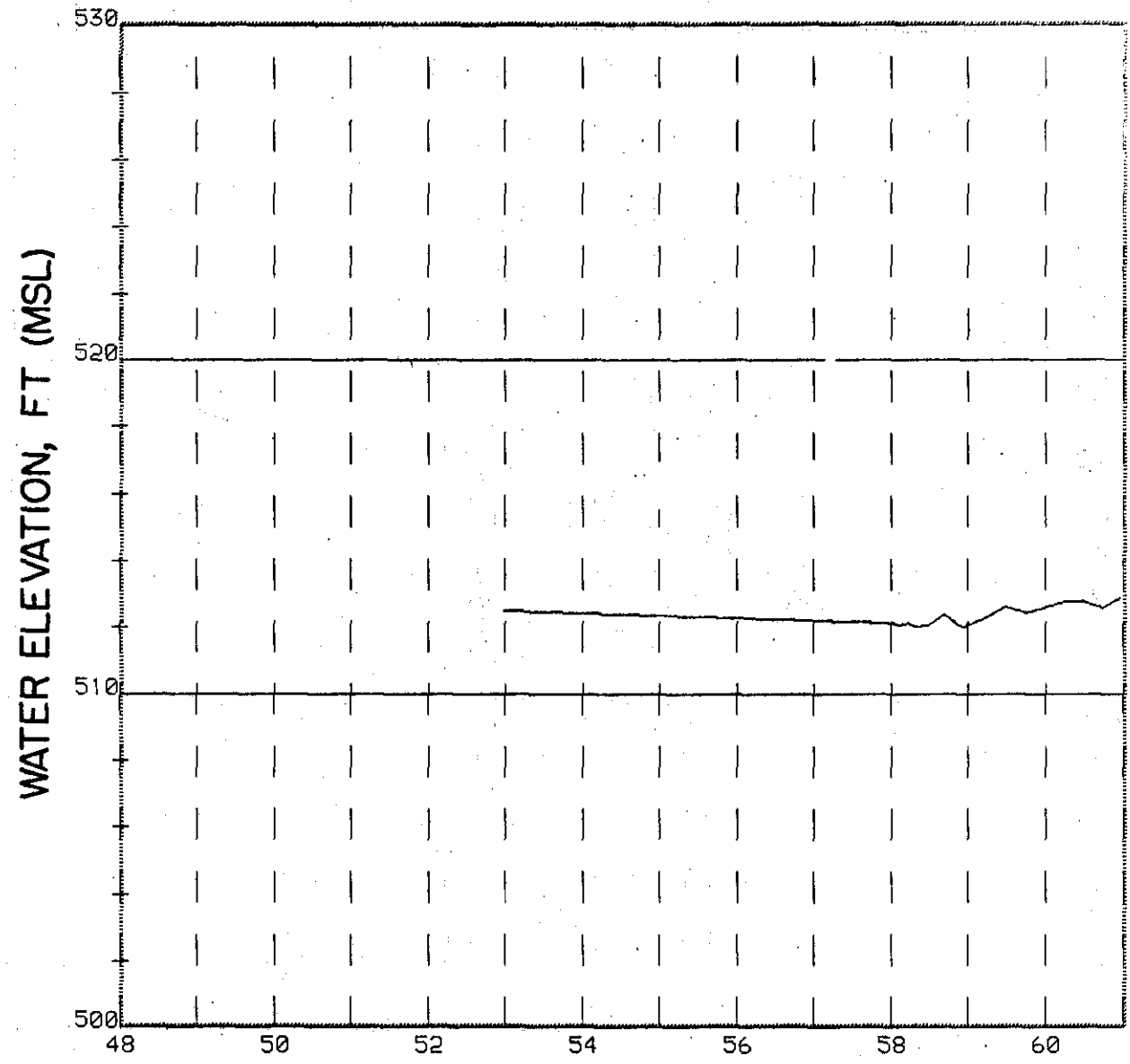
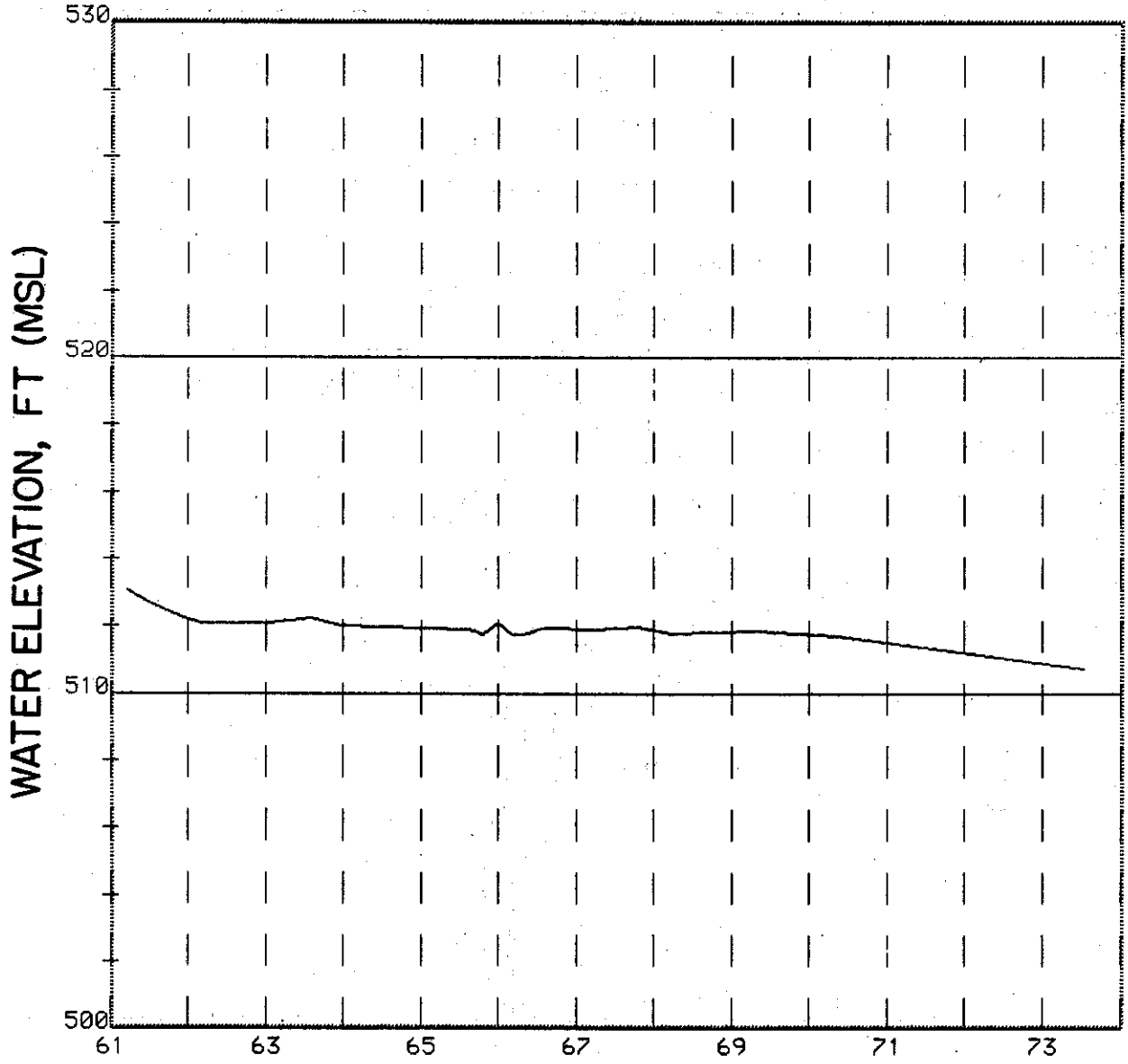


WELL NUMBER 699 19 88

CASING ELEVATION = 644.45



WELL NUMBER 699 19 88

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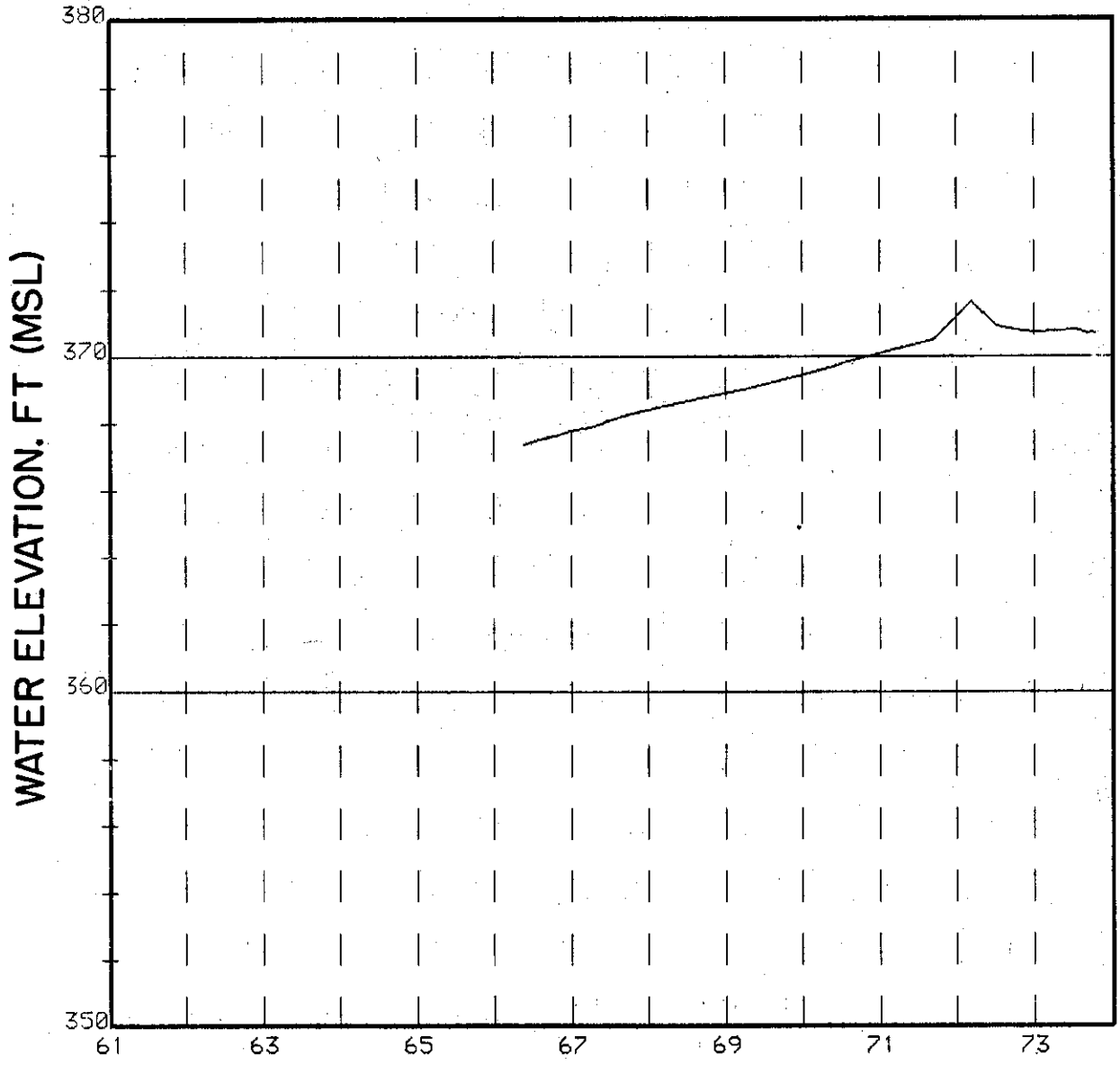

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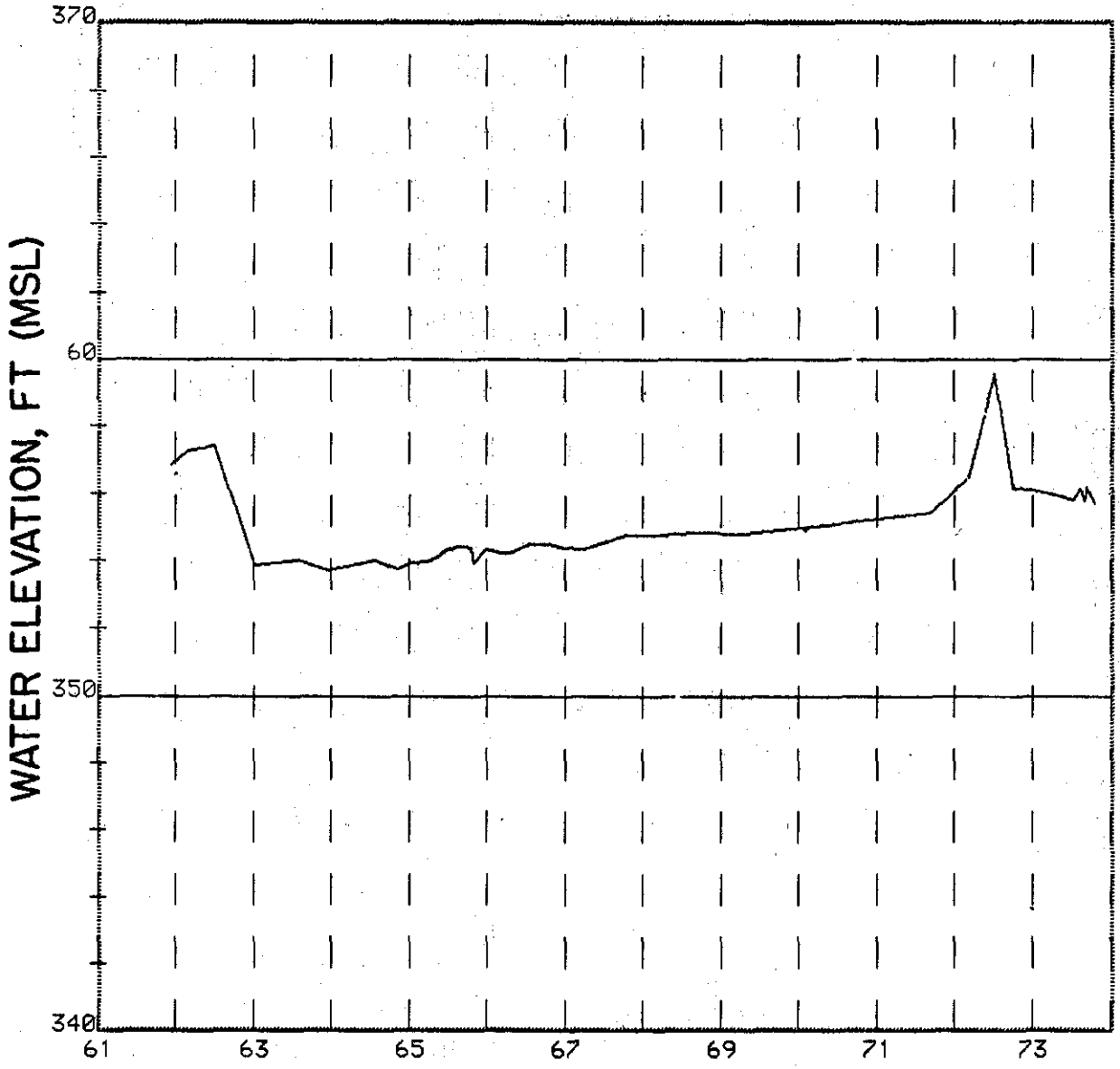

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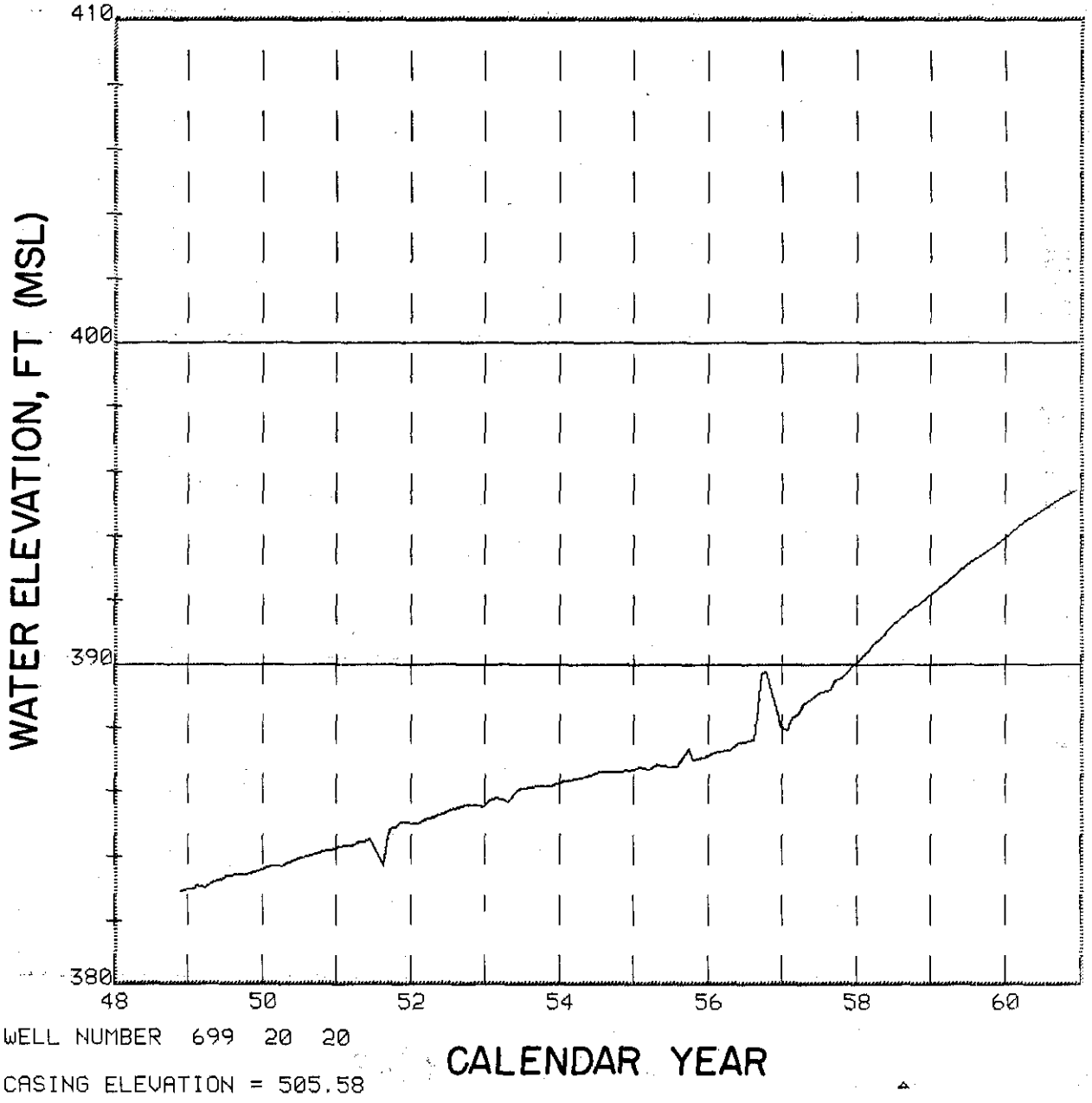

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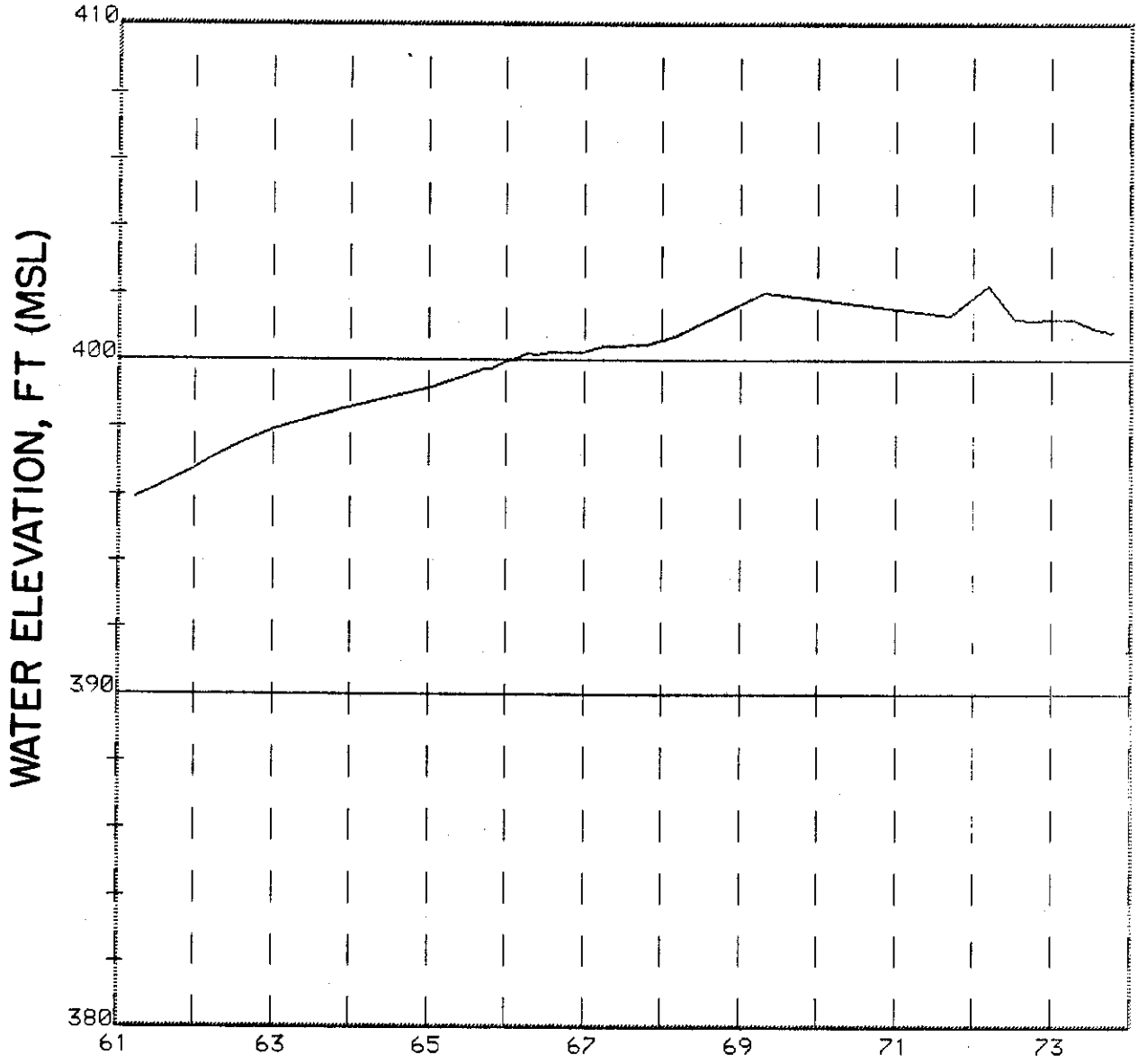

WELL NUMBER 699 20 20

CASING ELEVATION = 505.58

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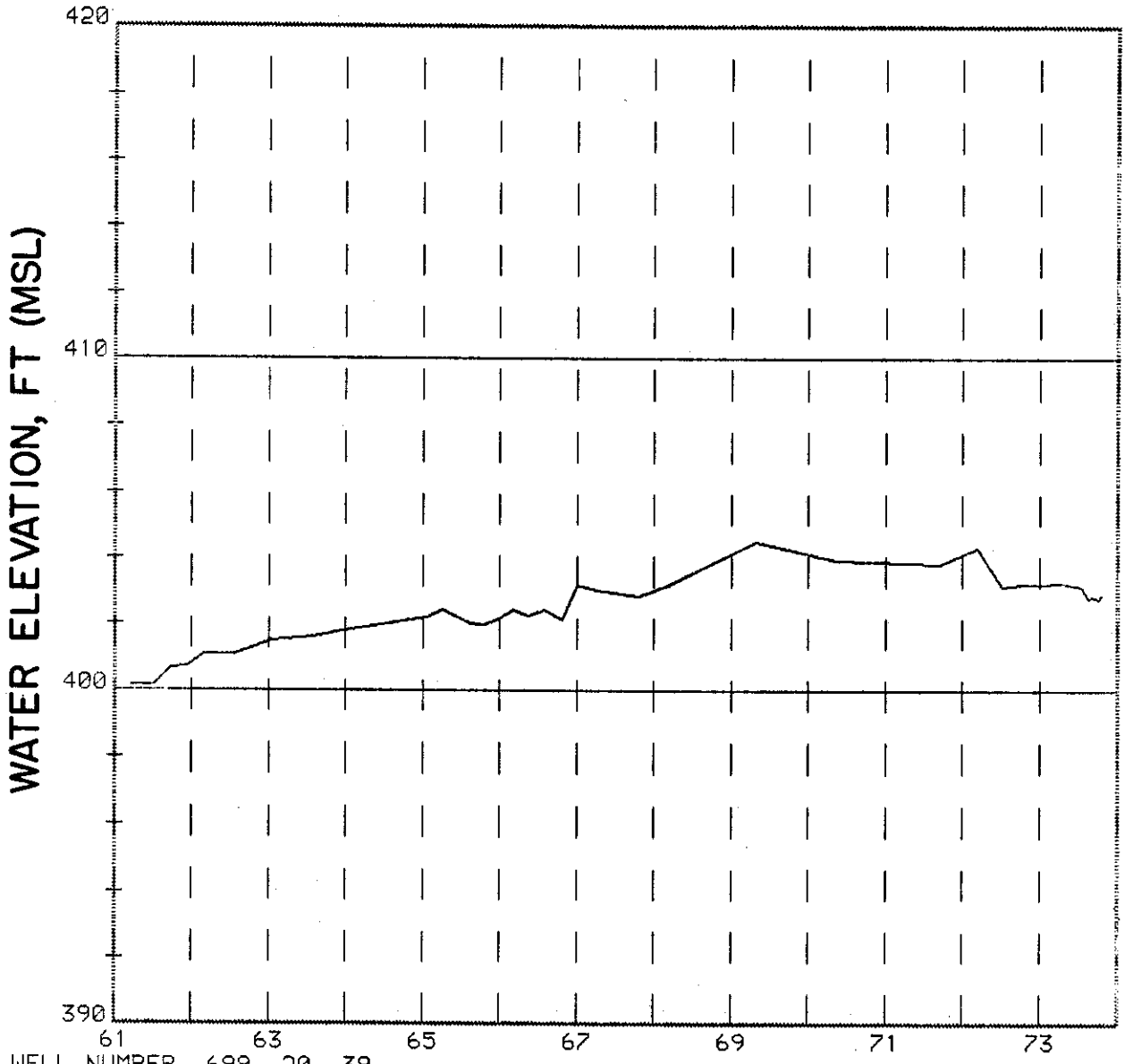

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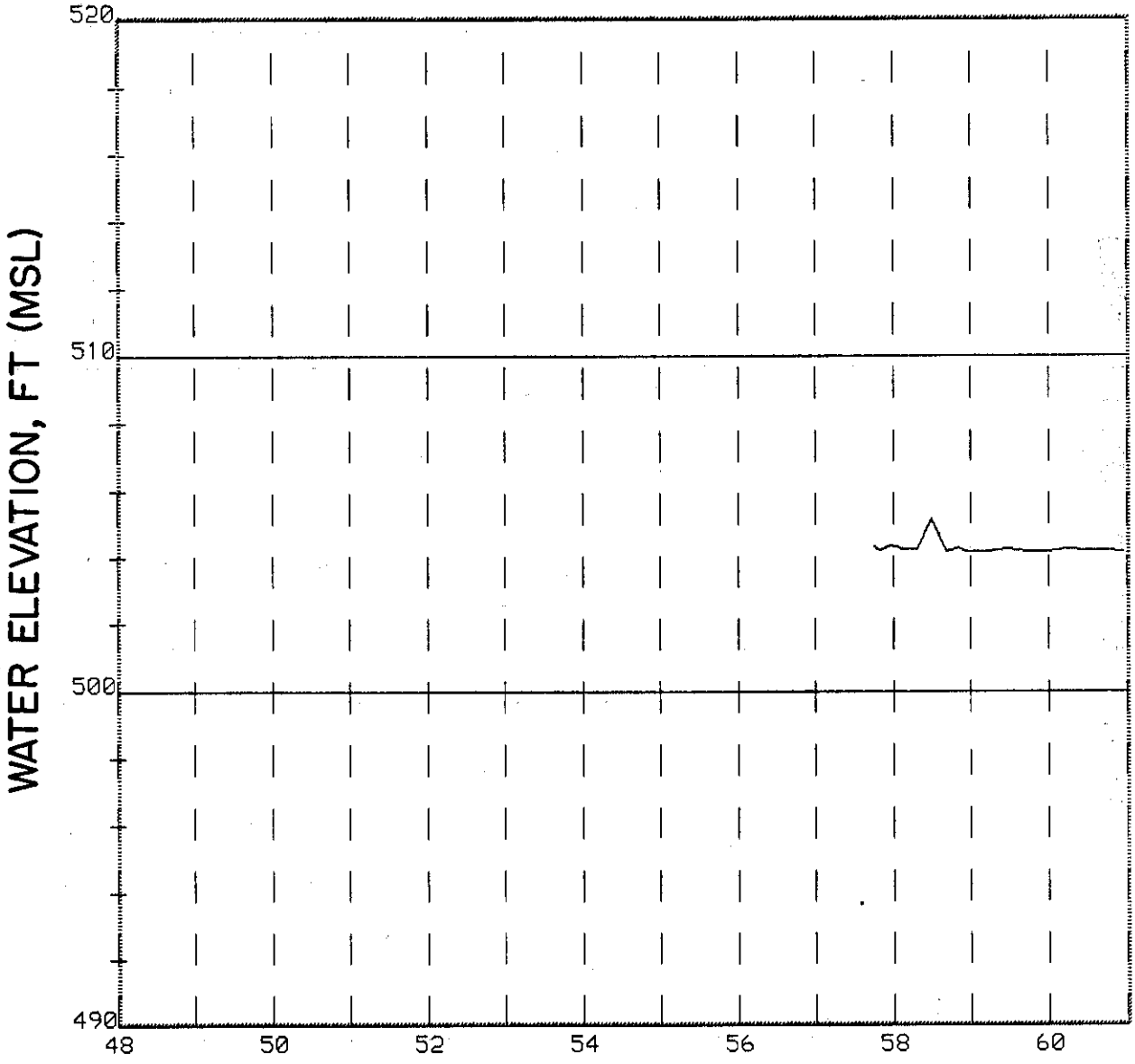

WELL NUMBER 699 20 82

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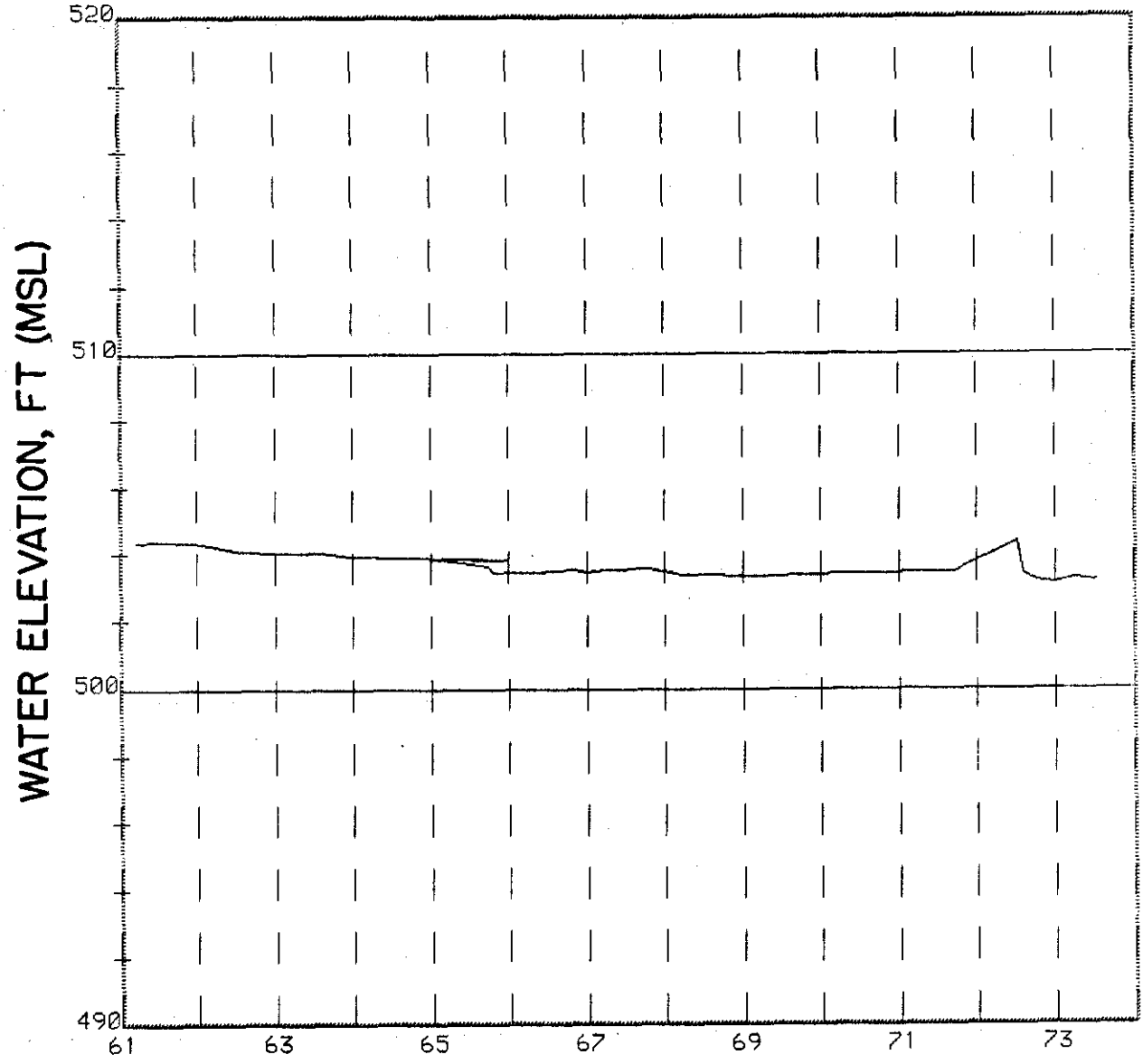

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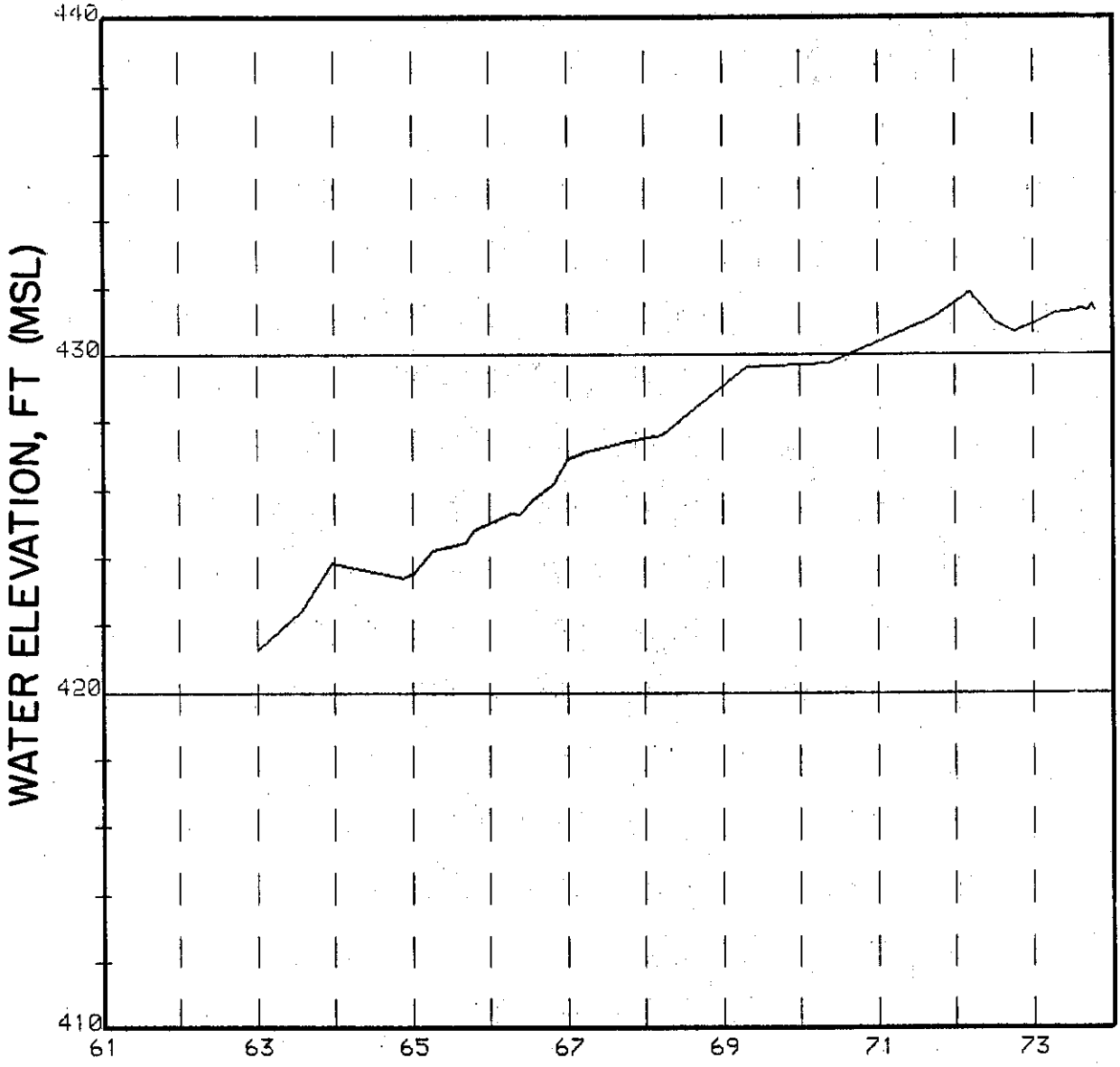

WELL NUMBER 699 22 70

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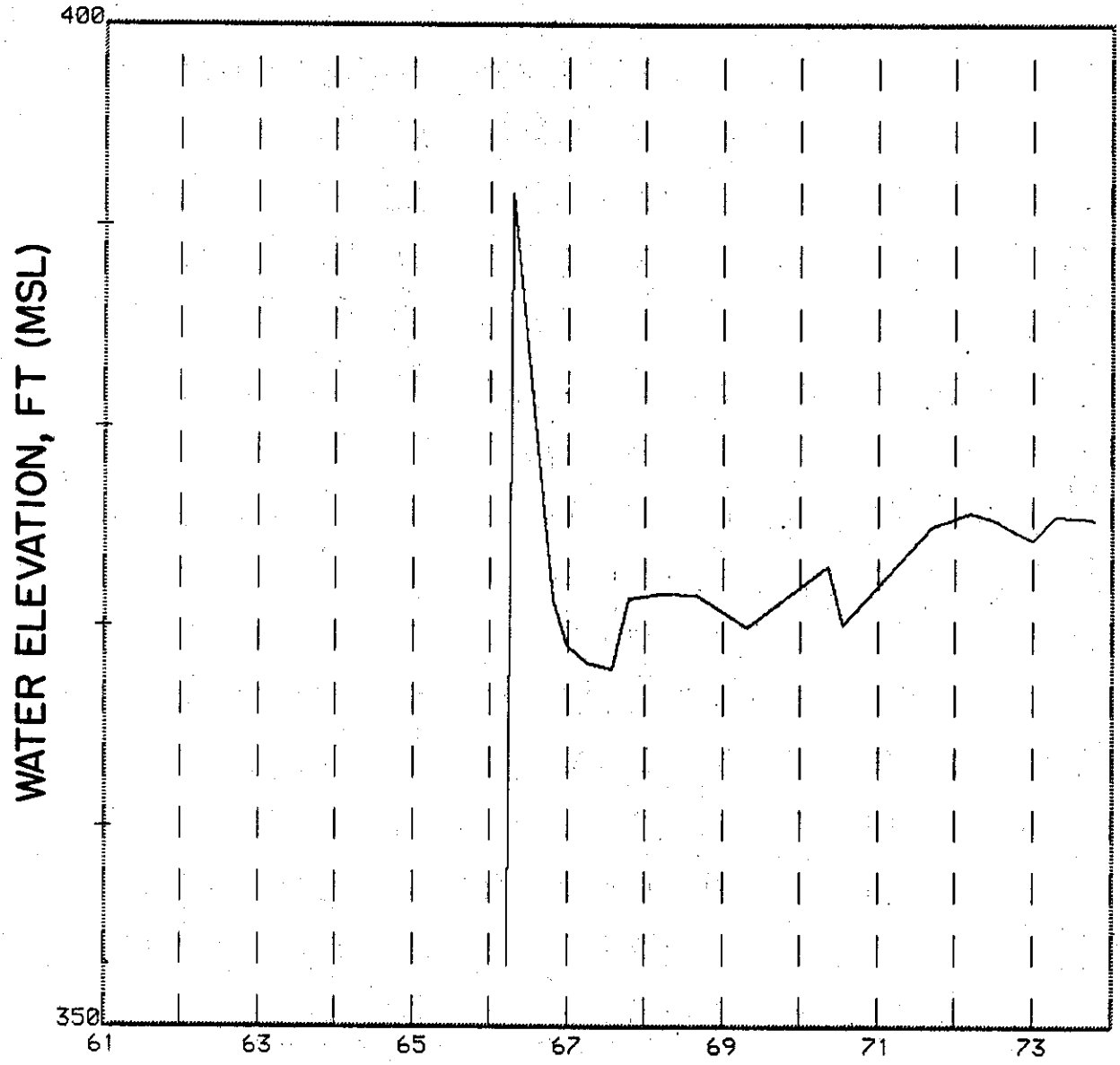

WELL NUMBER 699 24 1T

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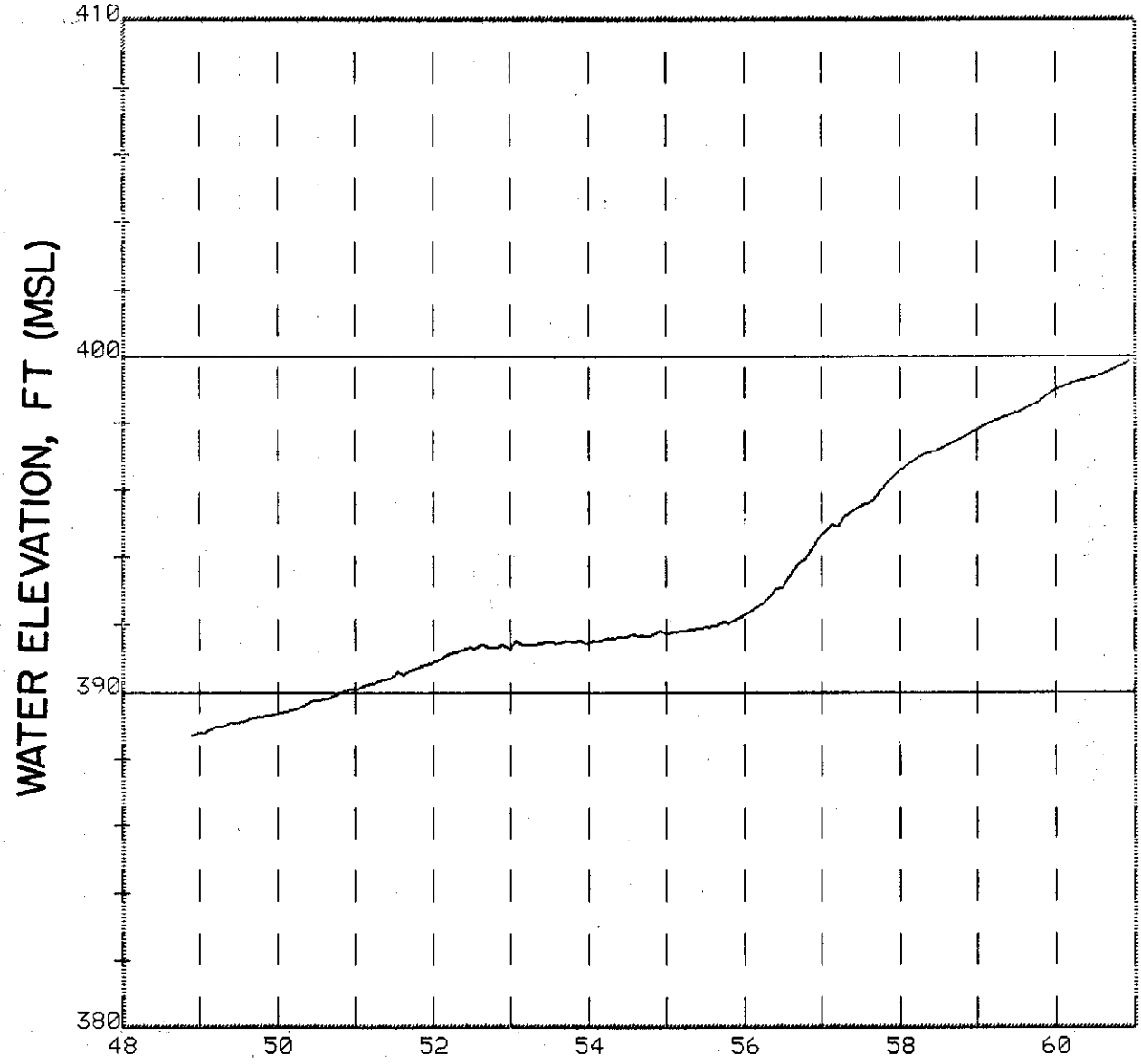

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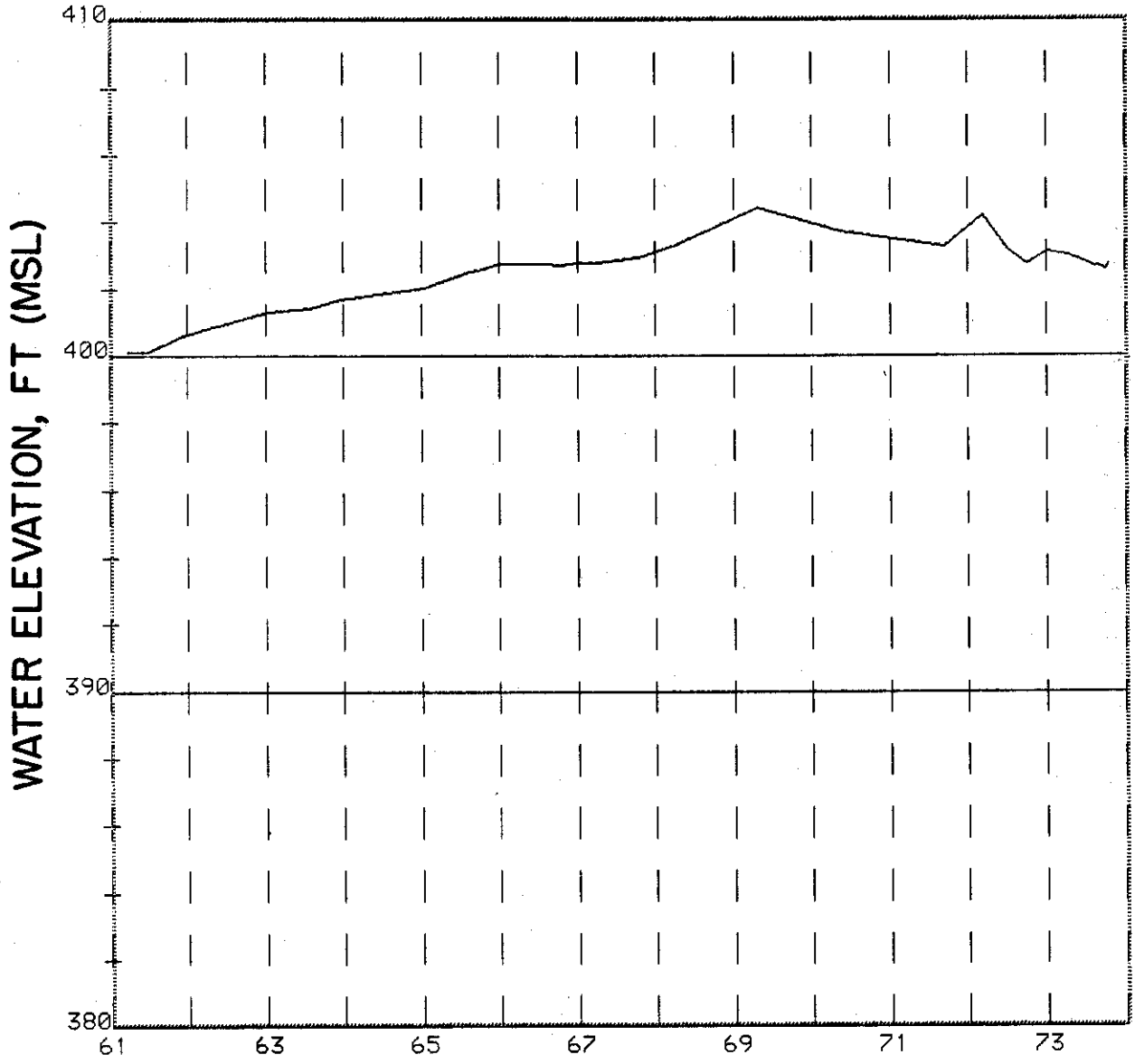

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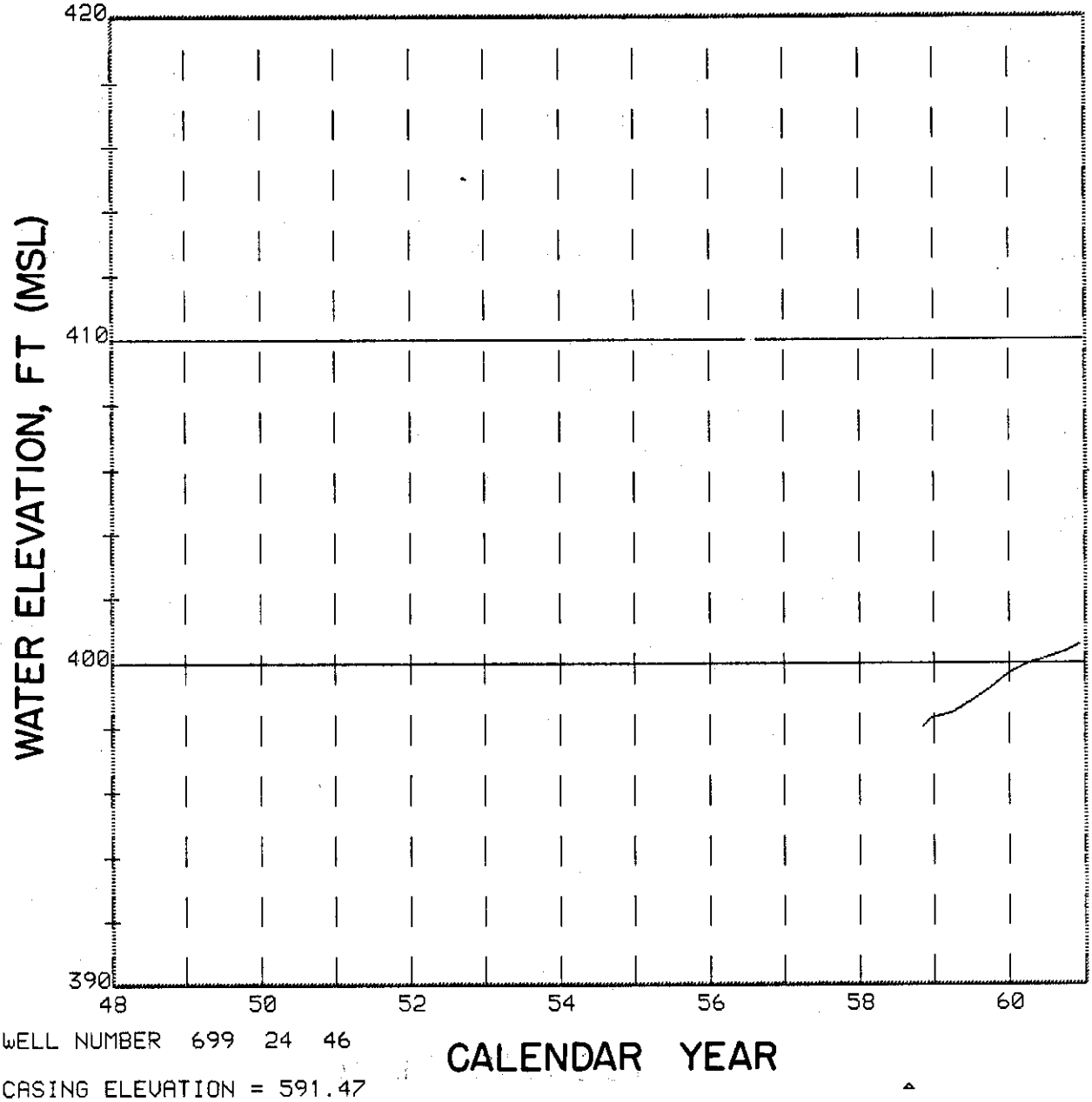

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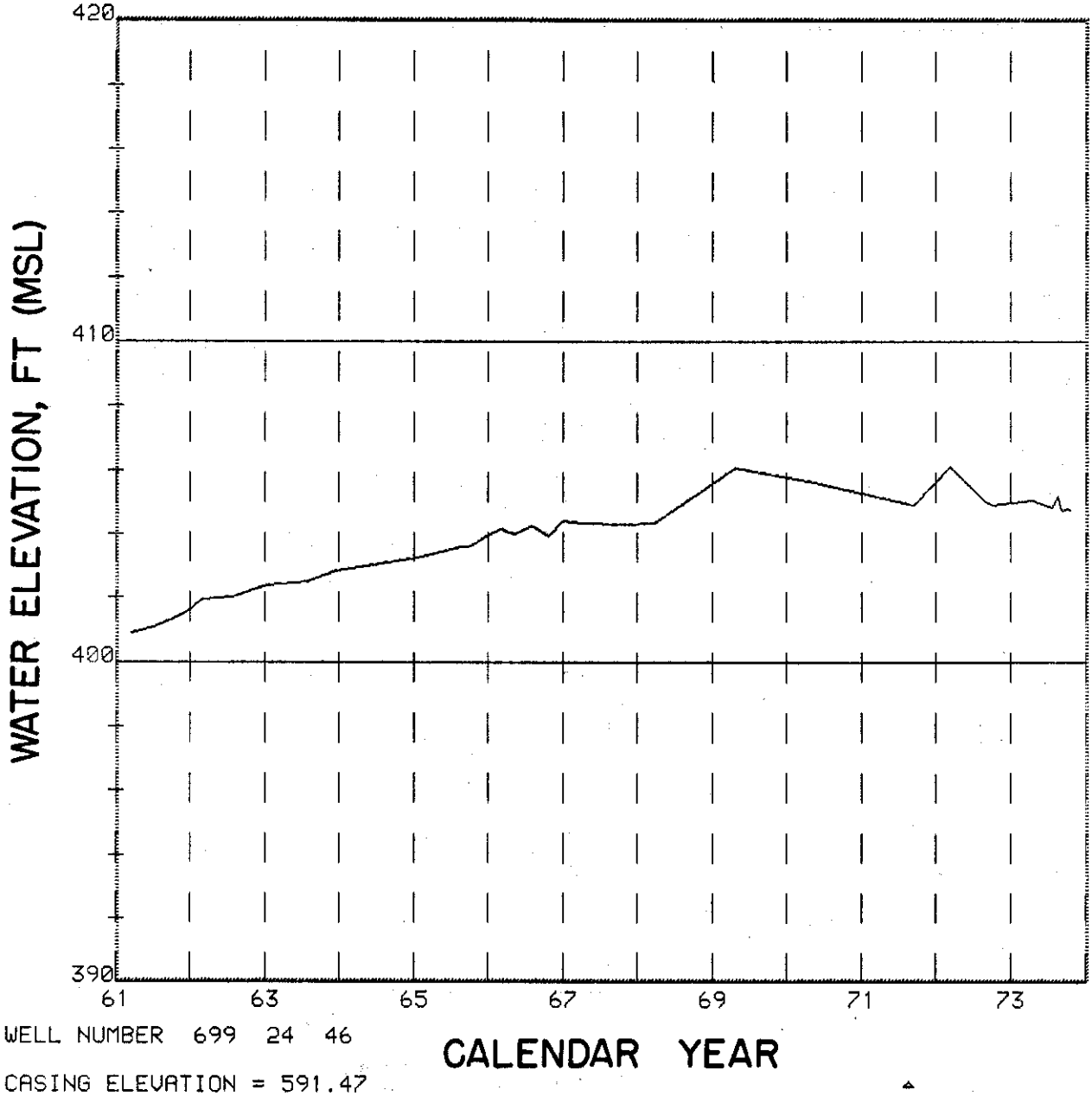

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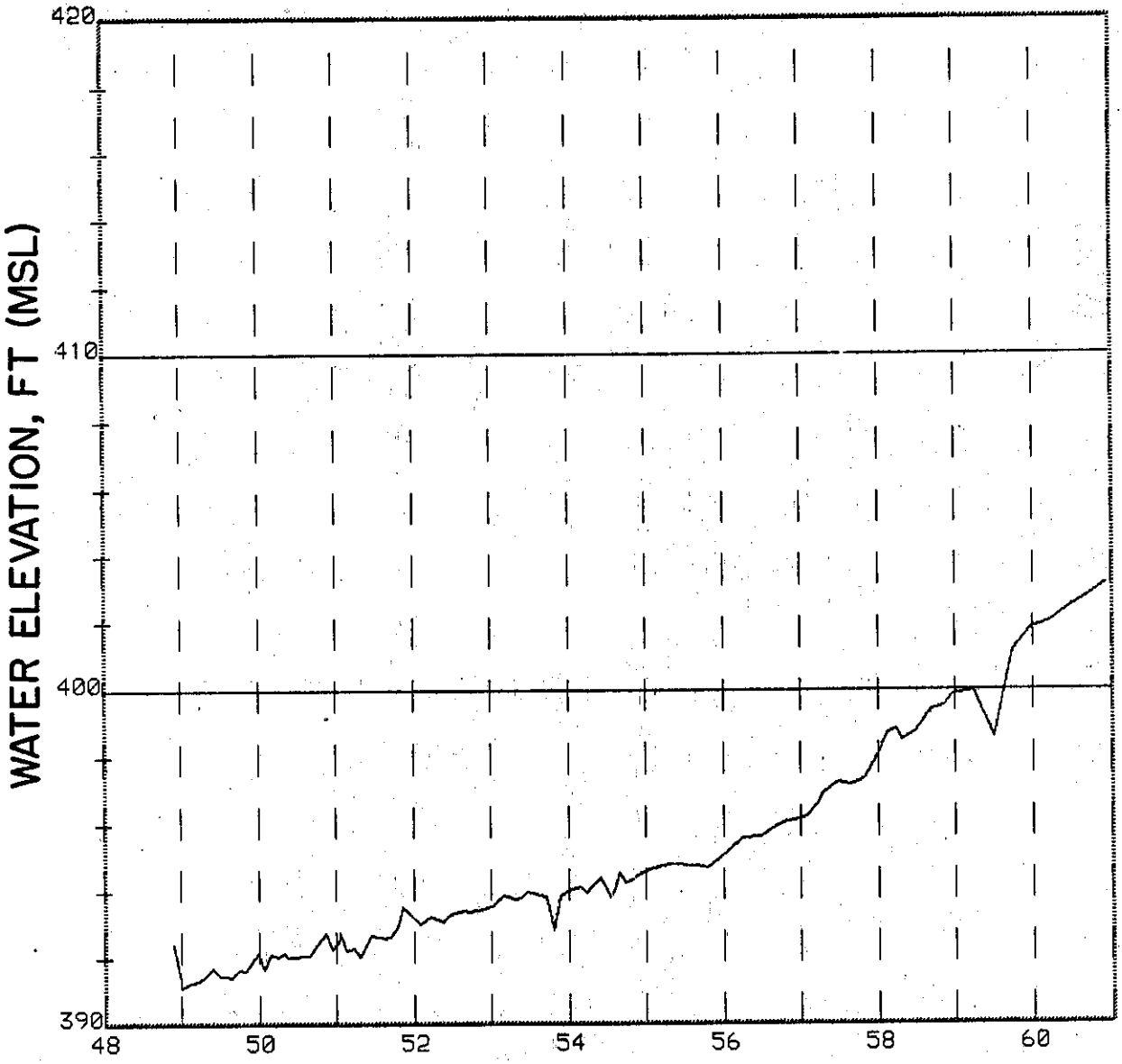
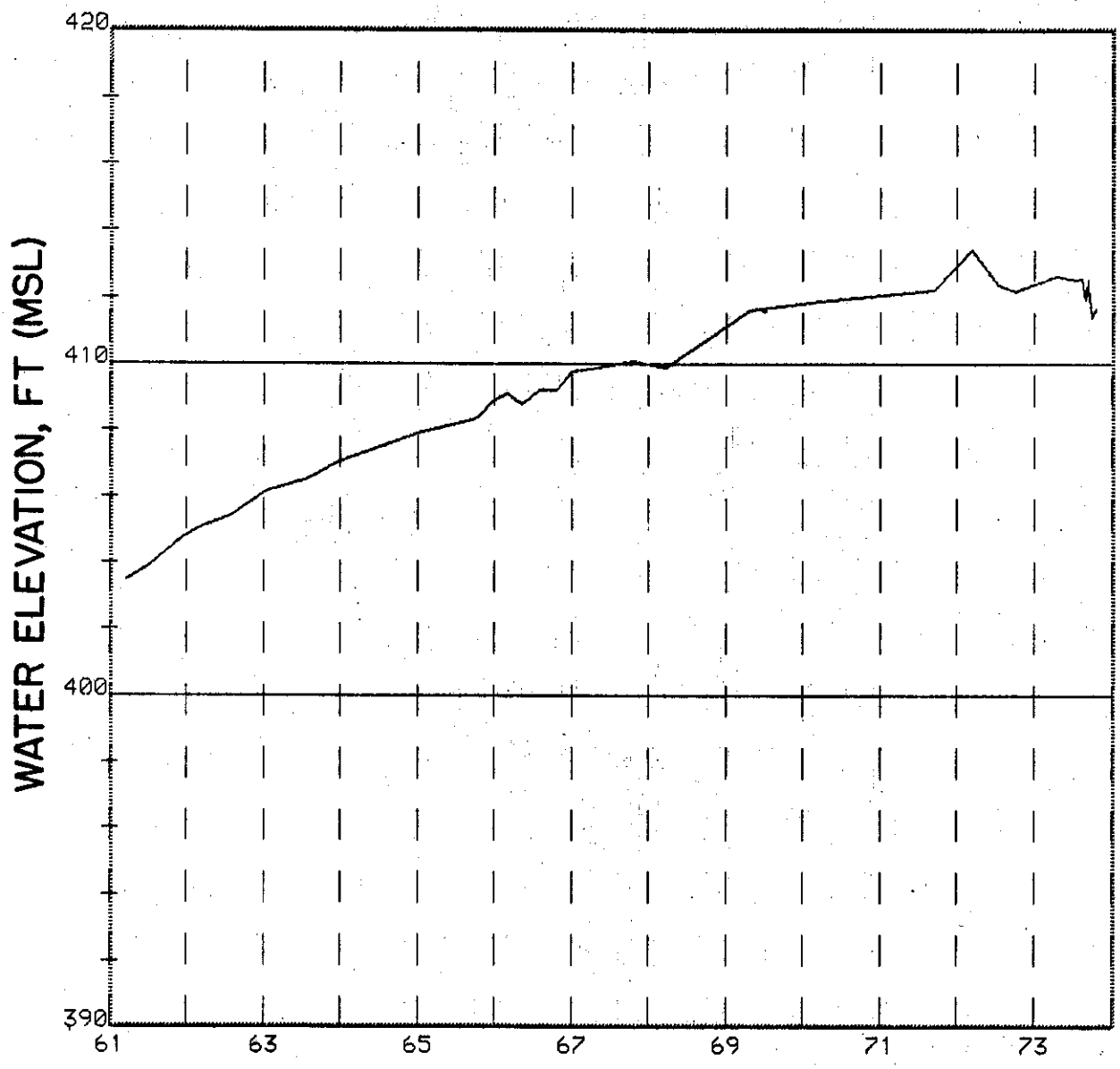


WELL NUMBER 699 25 55

CASING ELEVATION = 676.55



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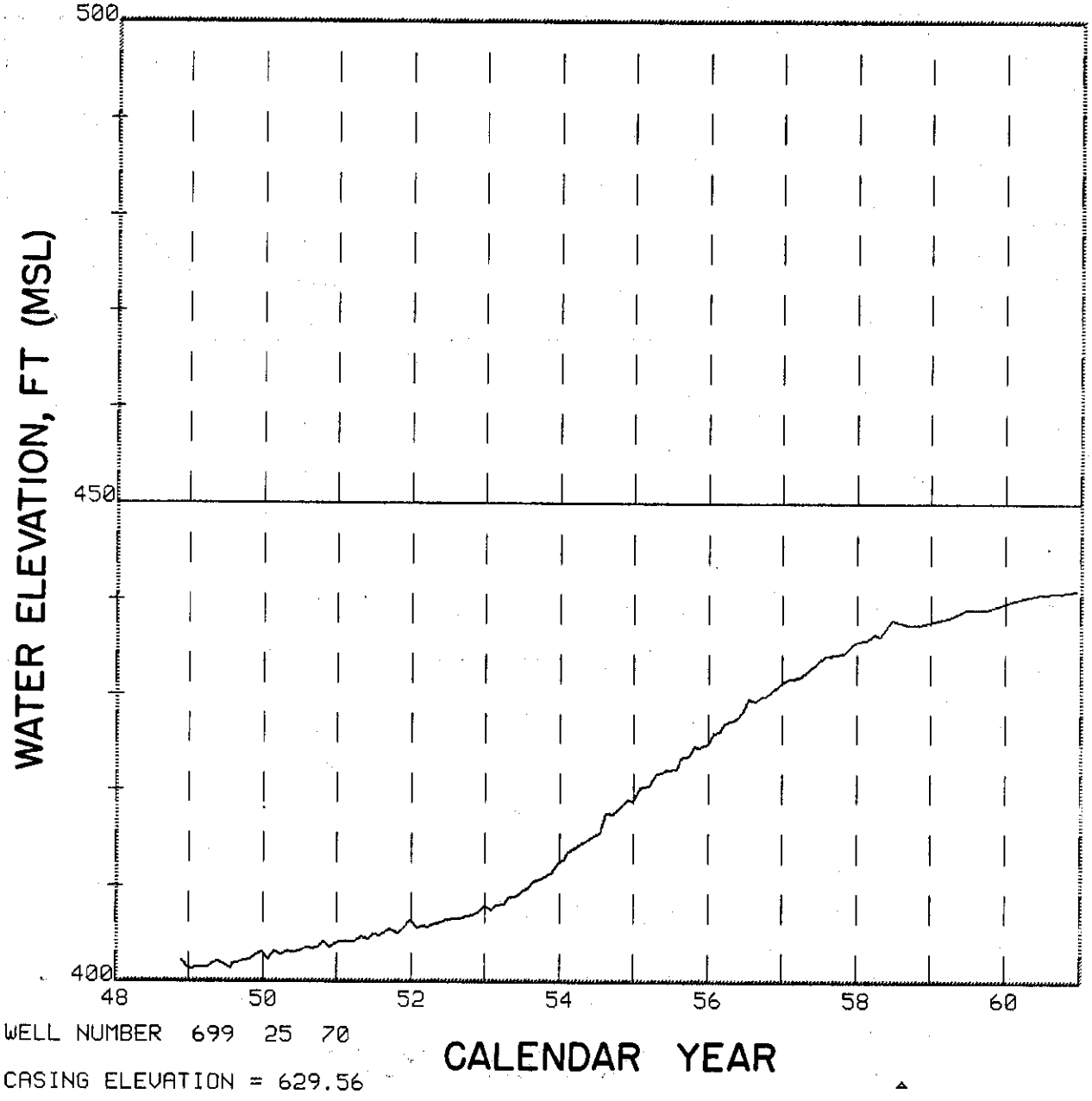
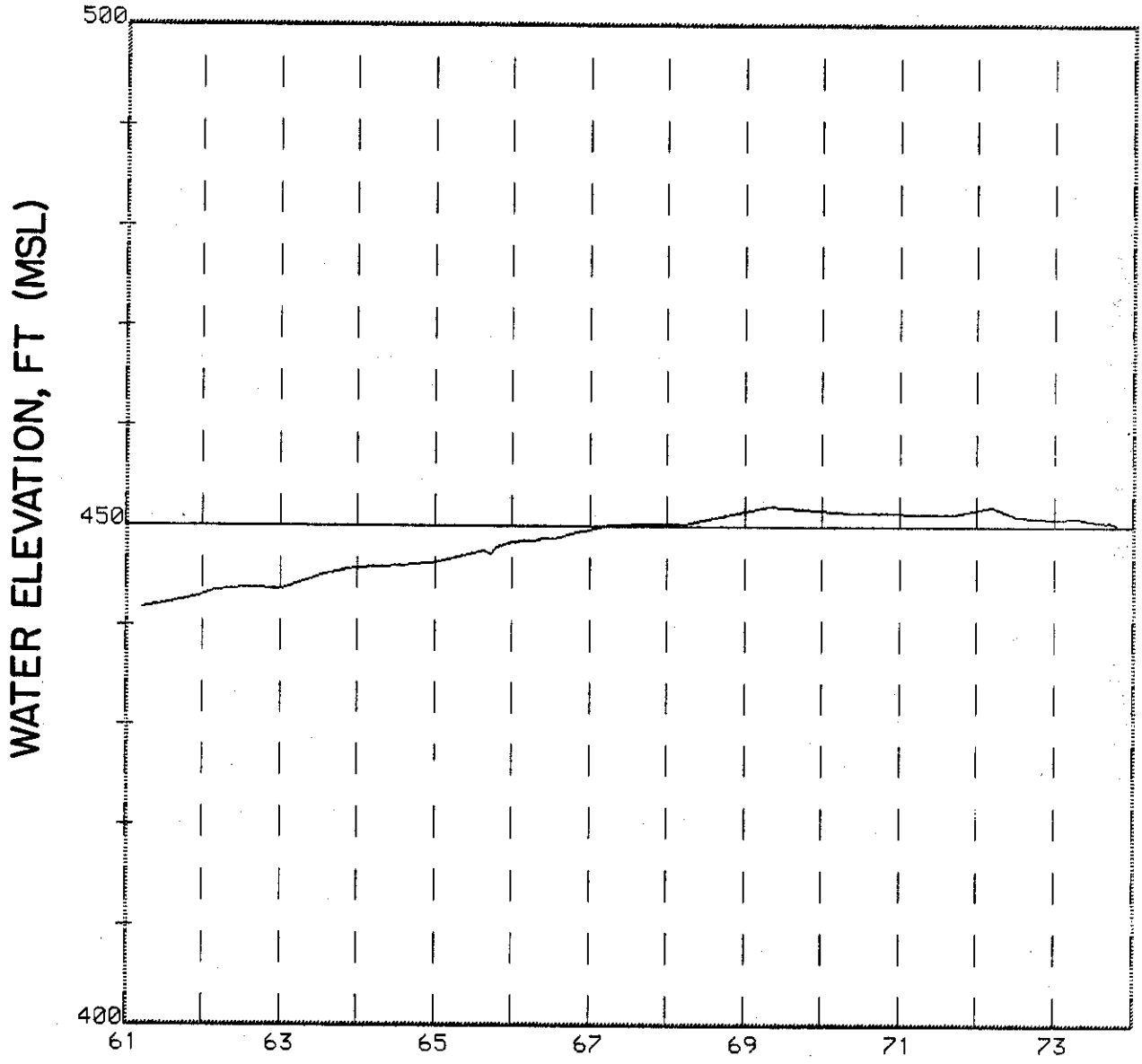
CASING ELEVATION = 676.55



WELL NUMBER 699 25 70

CASING ELEVATION = 629.56



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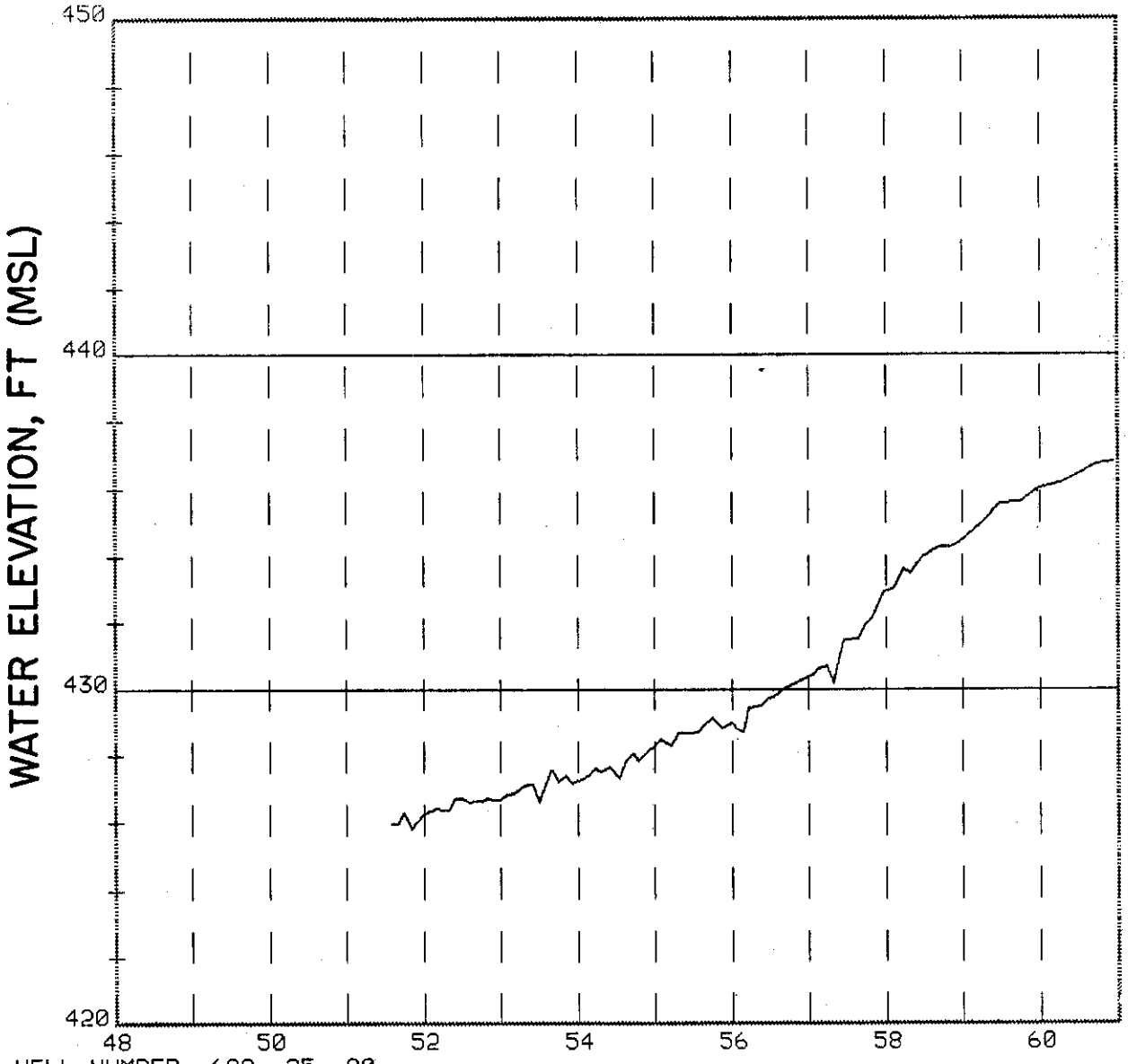

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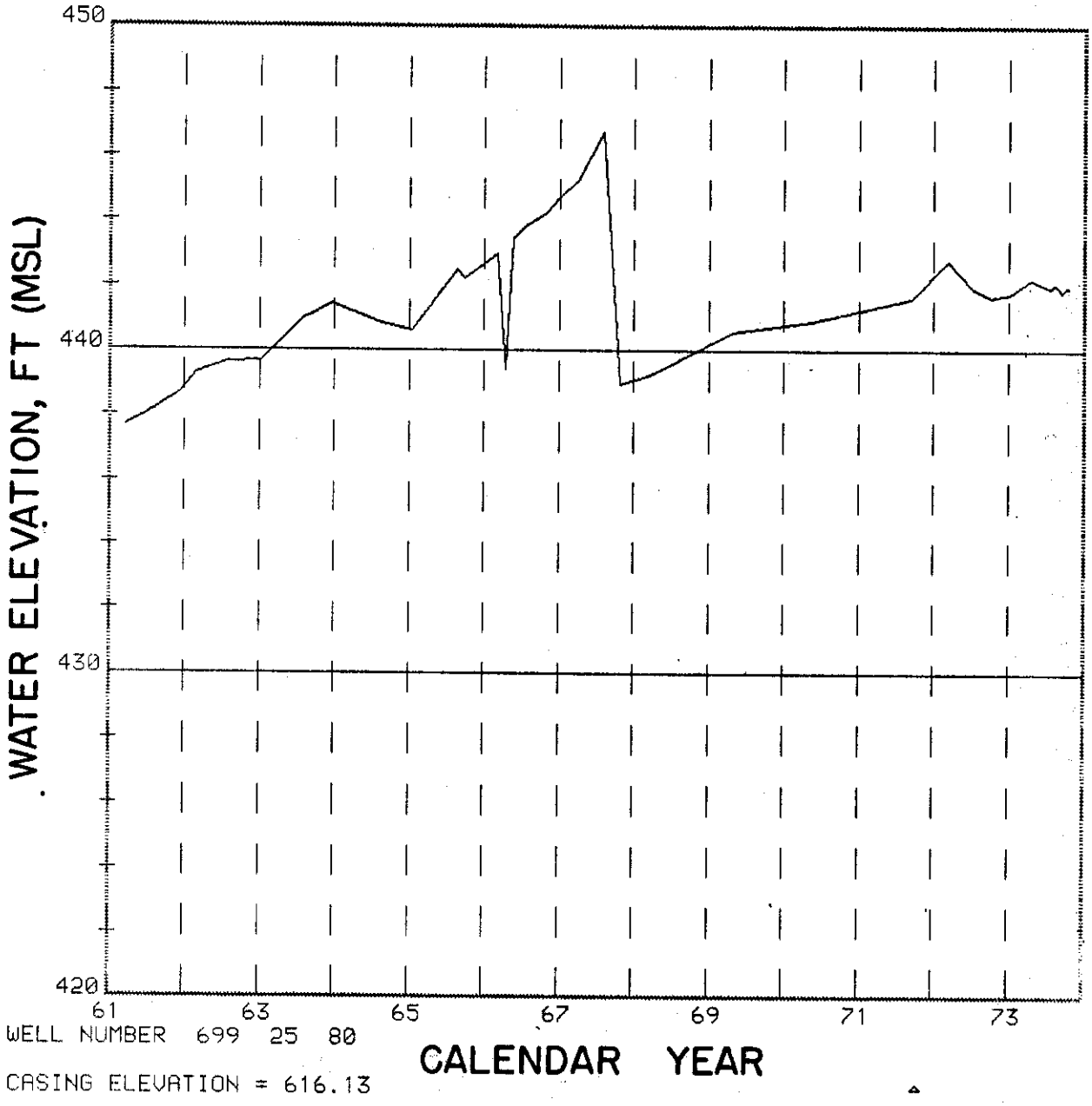
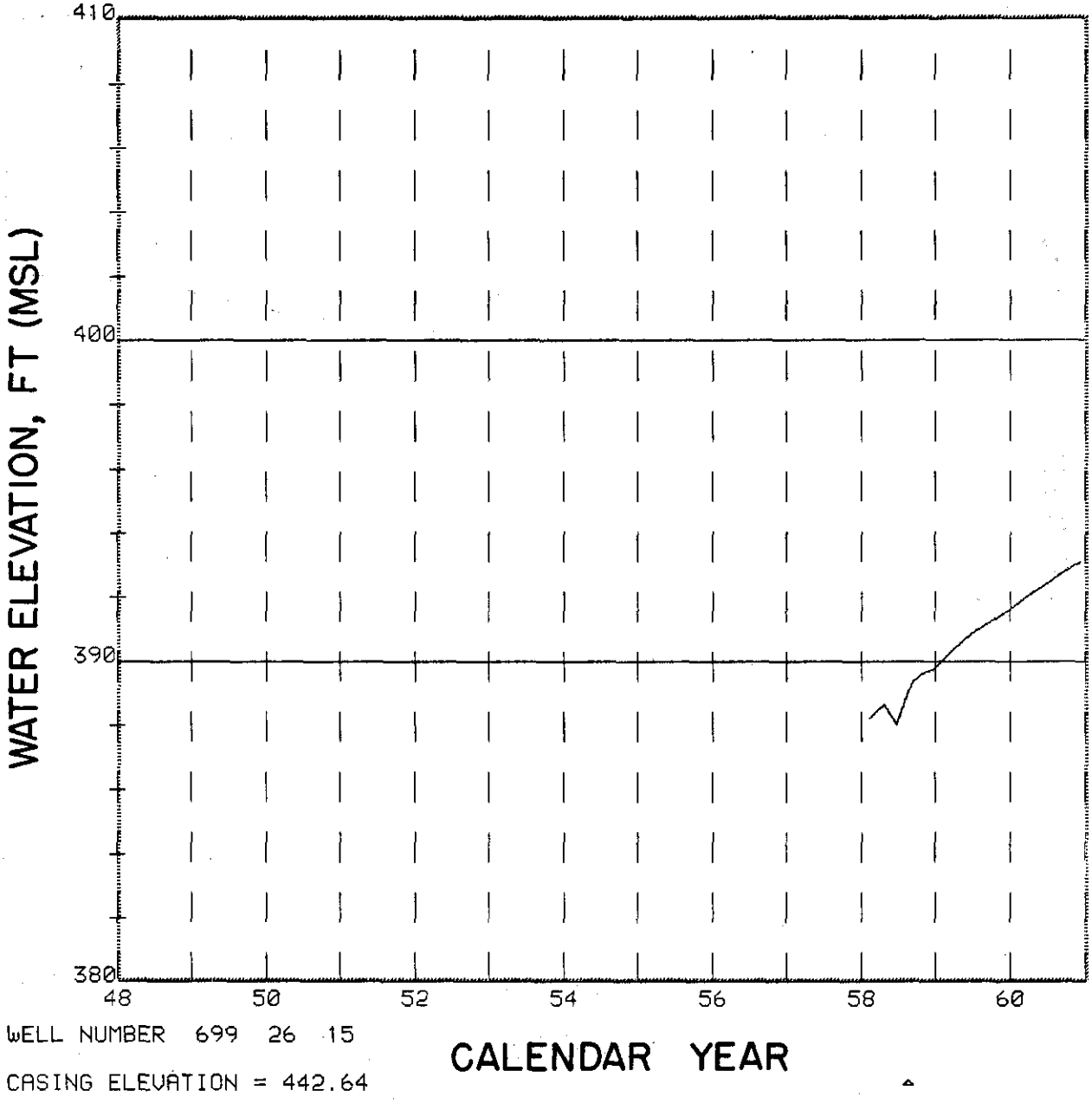

450
440
430
420
WATER ELEVATION, FT (MSL)
61
63
65
67
69
71
73
CALENDAR YEAR
WELL NUMBER 699 25 80
CASING ELEVATION = 616.13



WELL NUMBER 699 26 15

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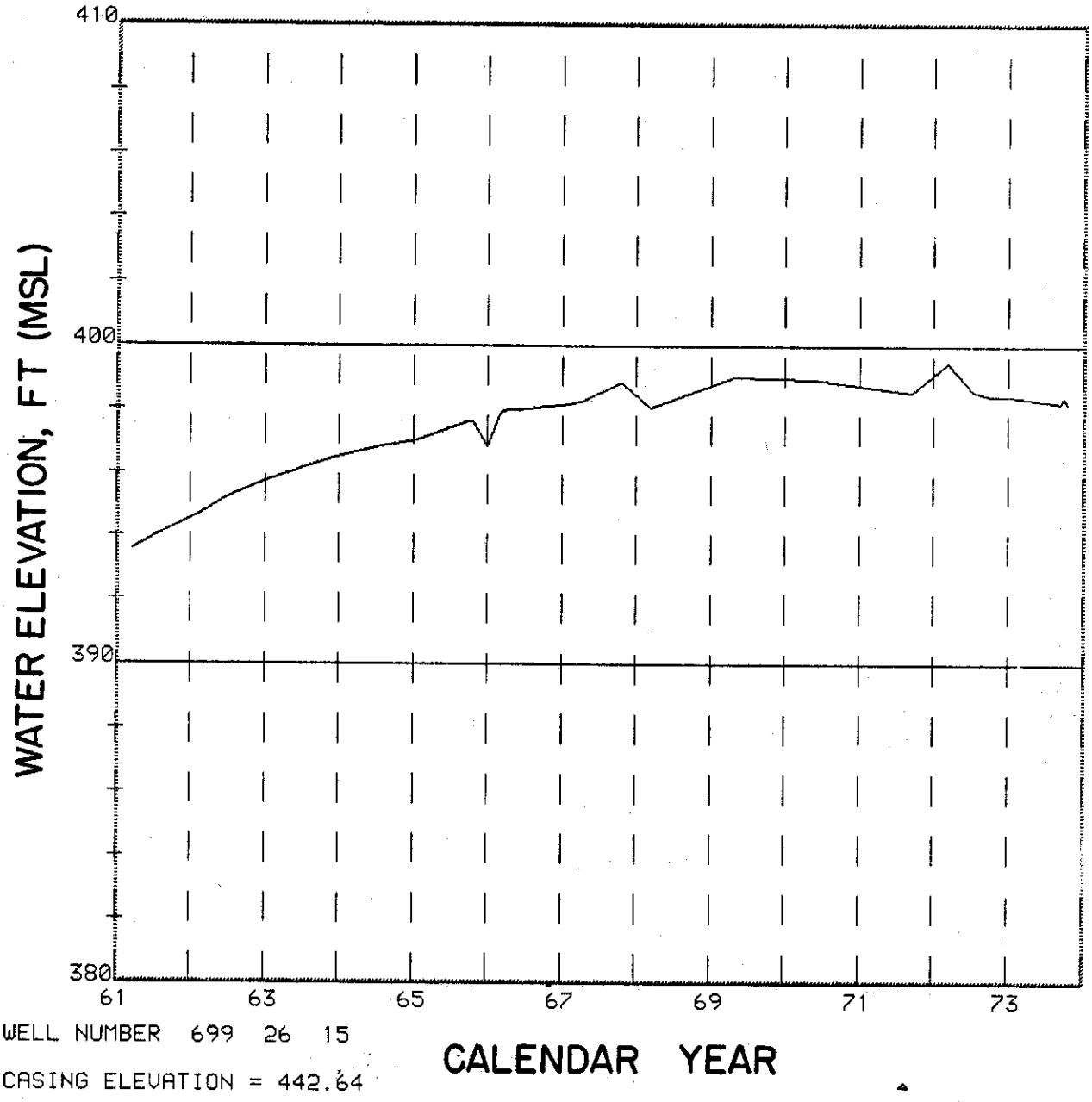
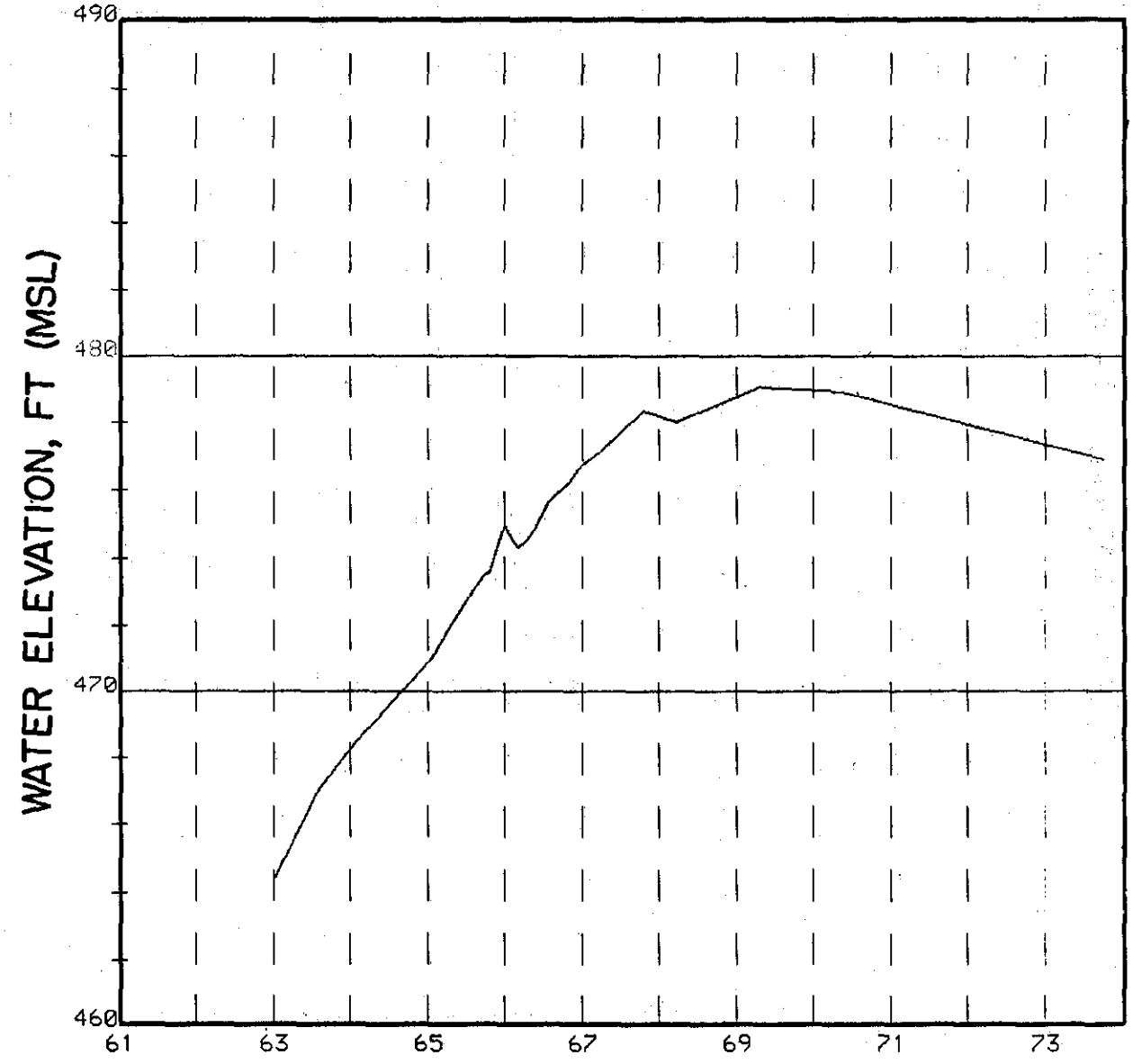

410
400
390
380
WATER ELEVATION, FT (MSL)
61
63
65
67
69
71
73
CALENDAR YEAR
WELL NUMBER 699 26 15
CASING ELEVATION = 442.64



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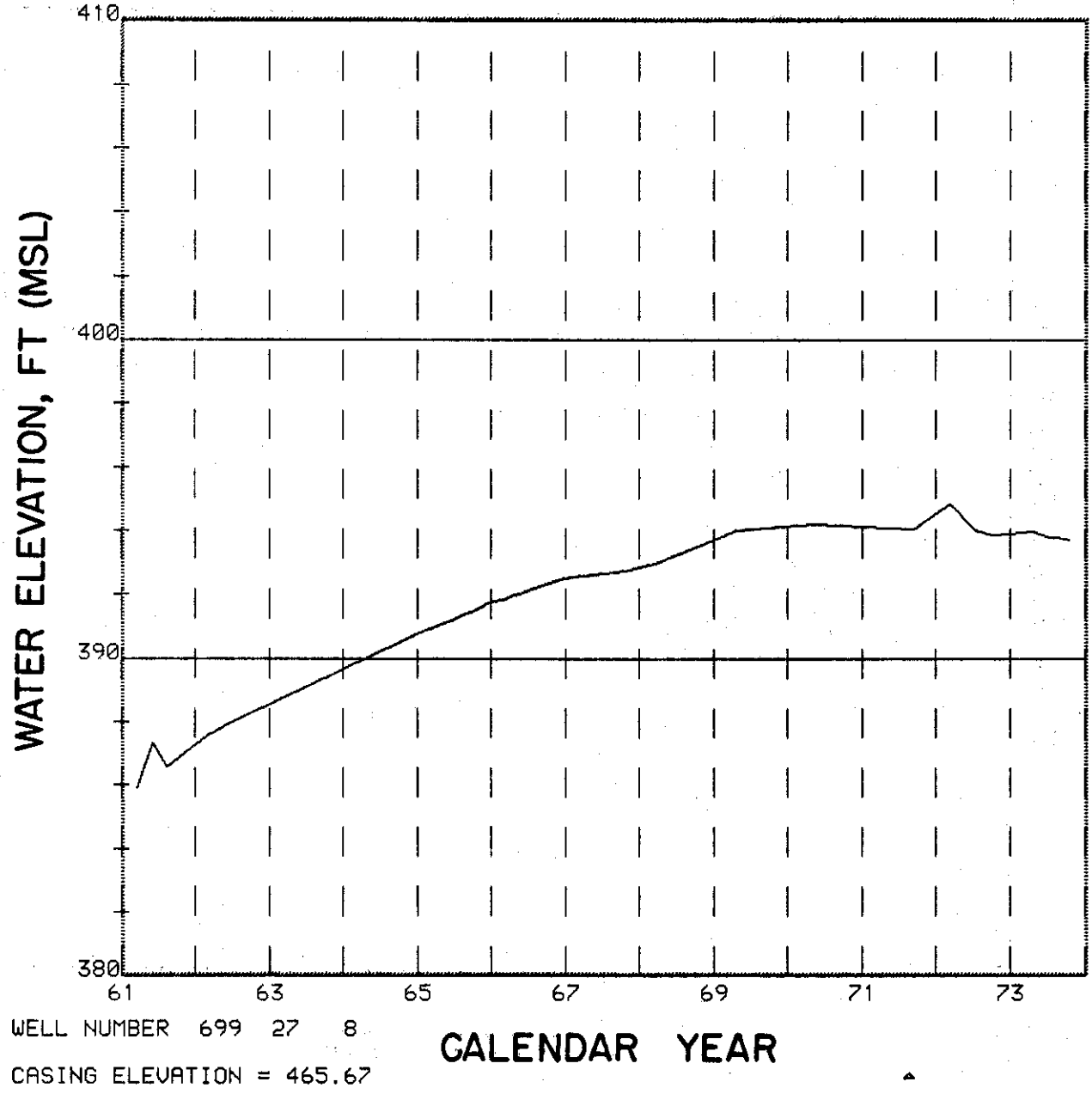

WELL NUMBER 699 27 8

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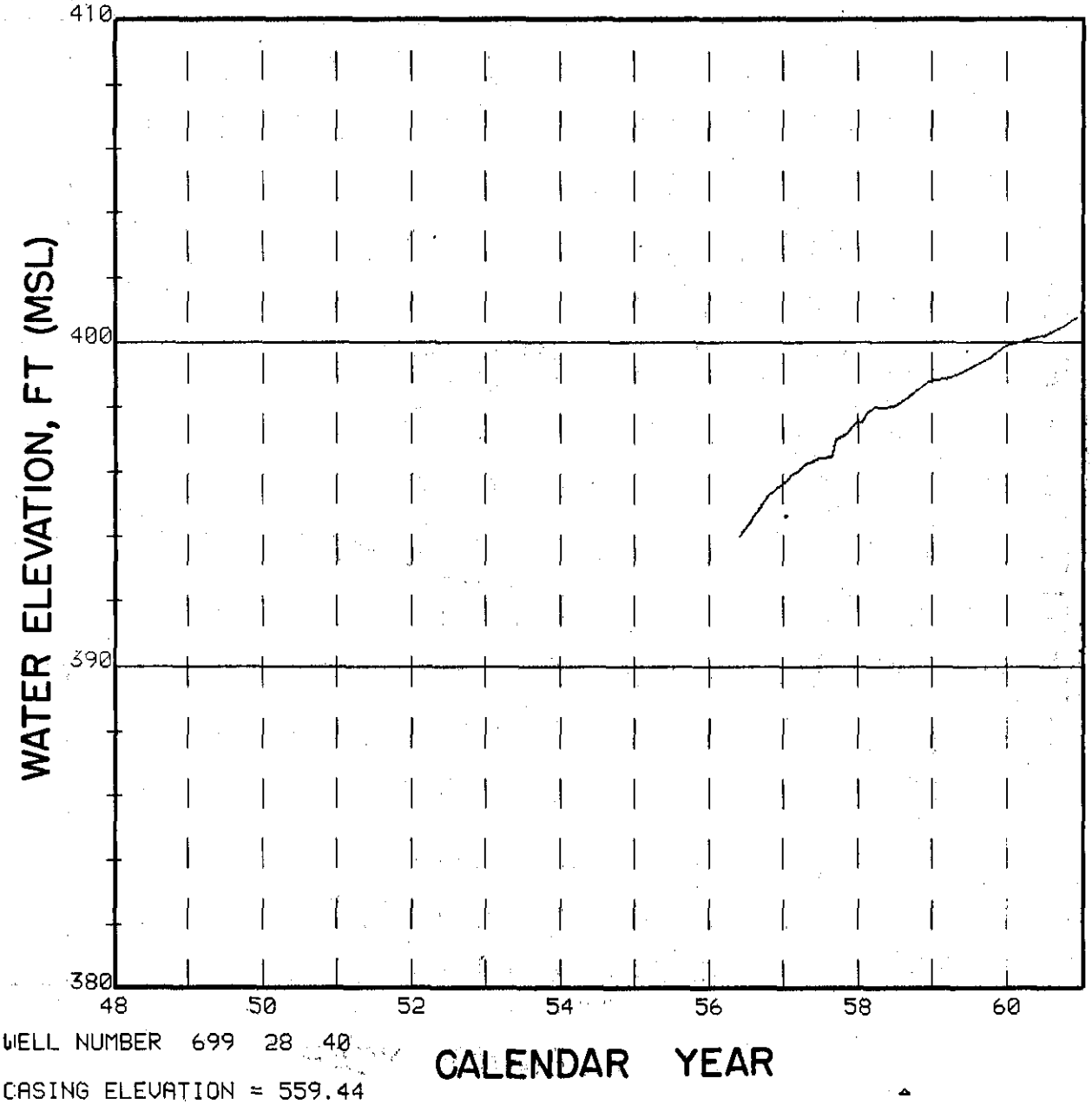

WELL NUMBER 699 28 40

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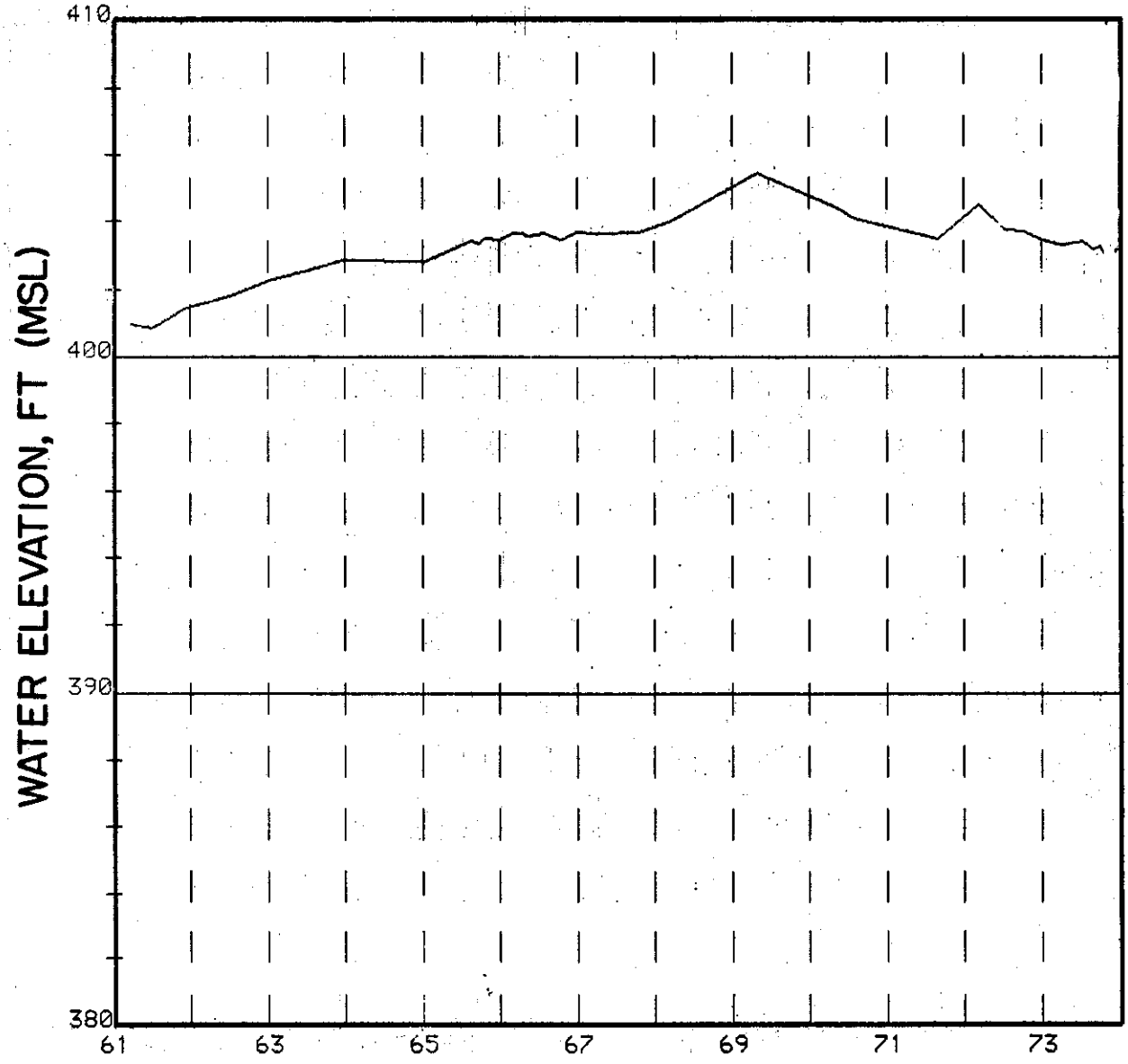

WELL NUMBER 699 28 40

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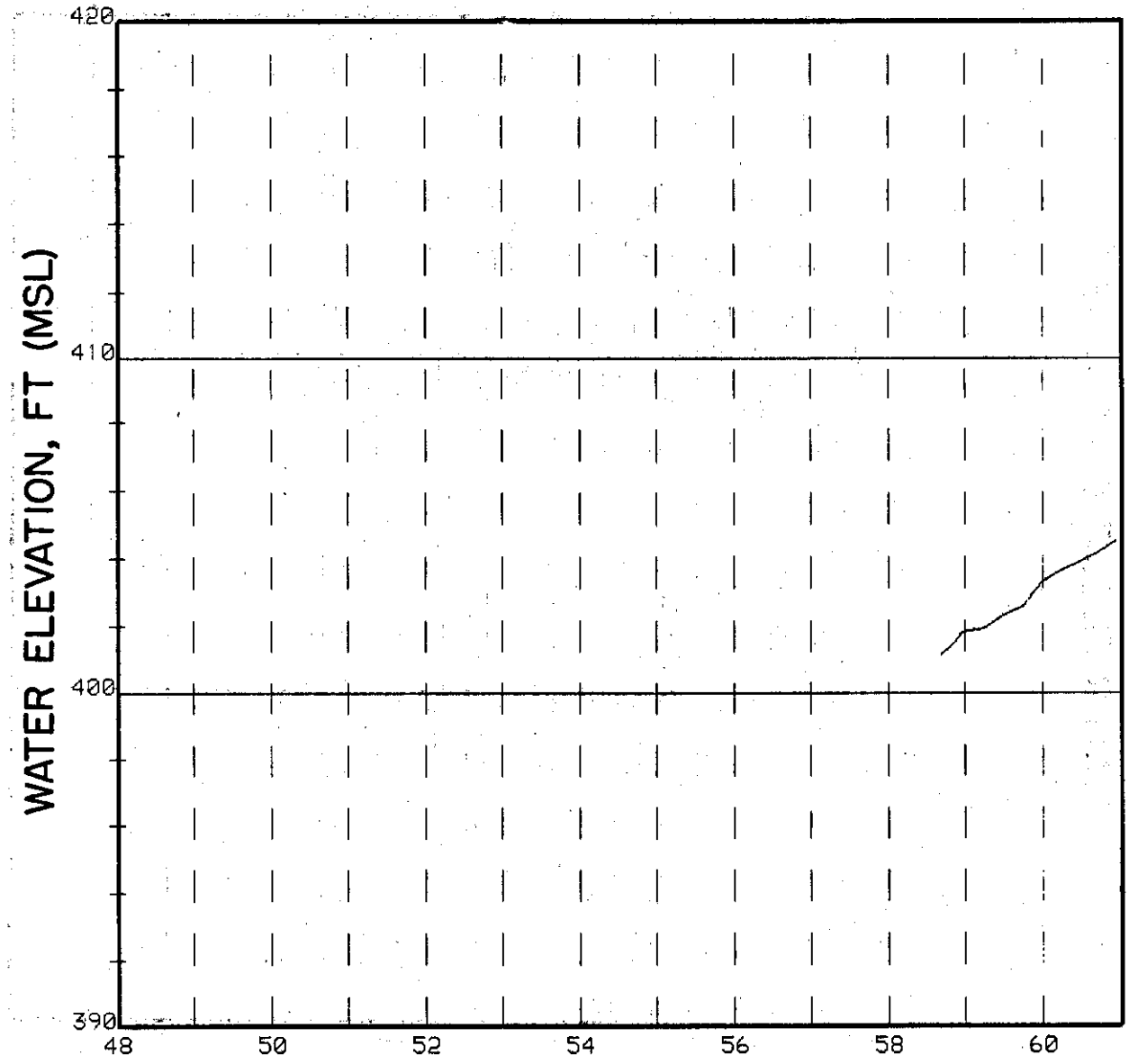

WELL NUMBER 699 28 52

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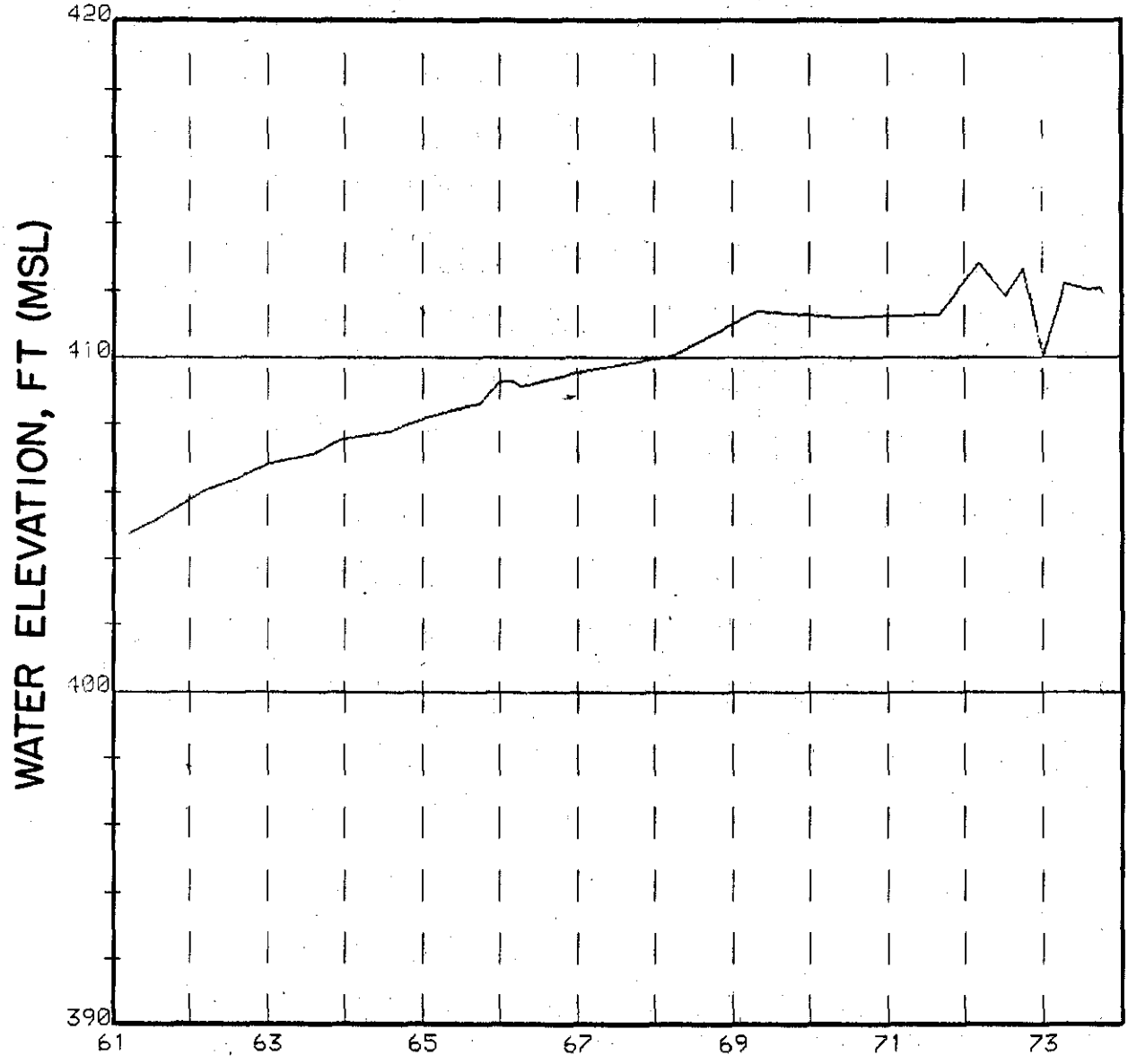

WELL NUMBER 699 28 52

CASING ELEVATION = 684.73

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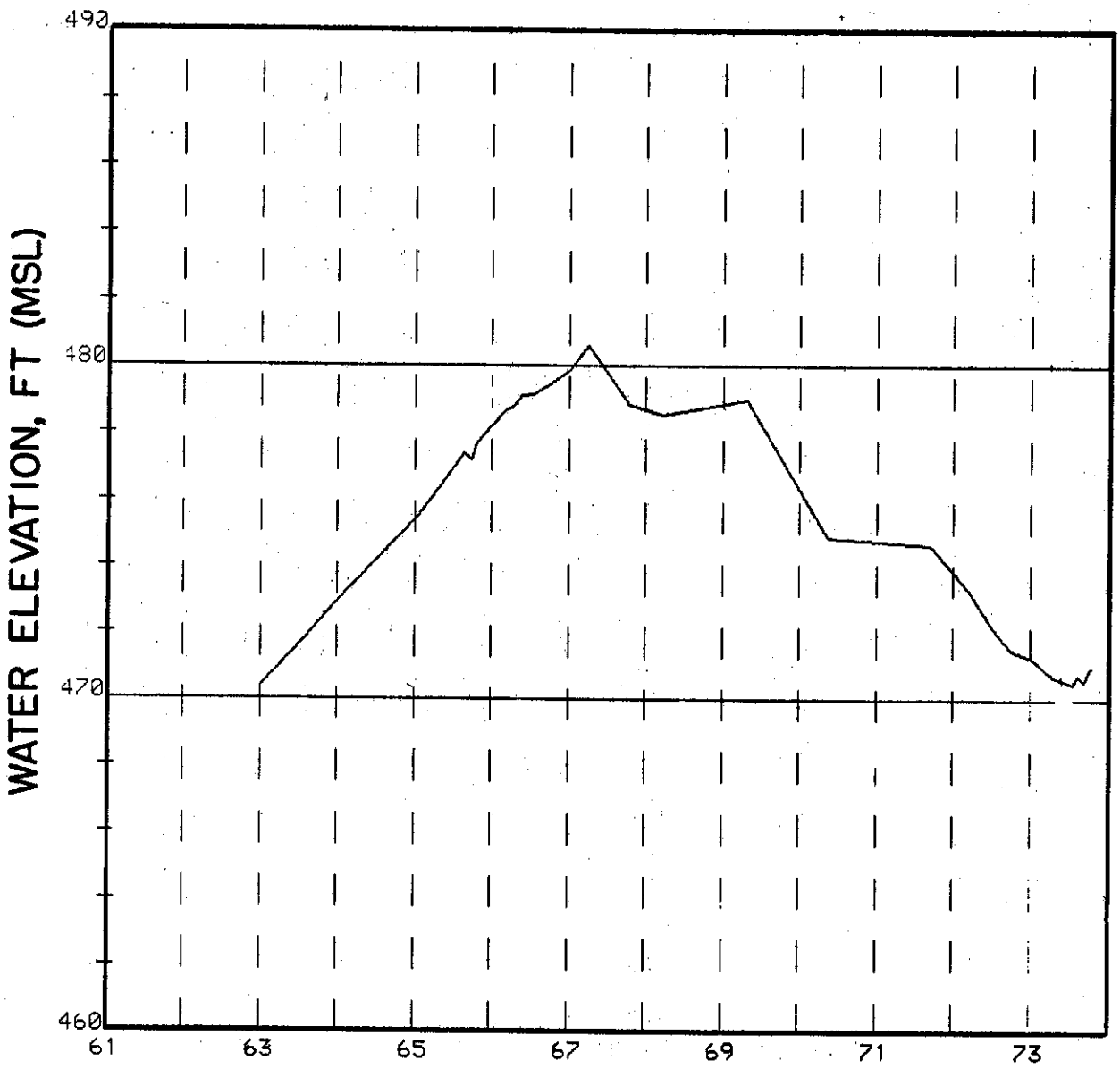

WELL NUMBER 699 29 78

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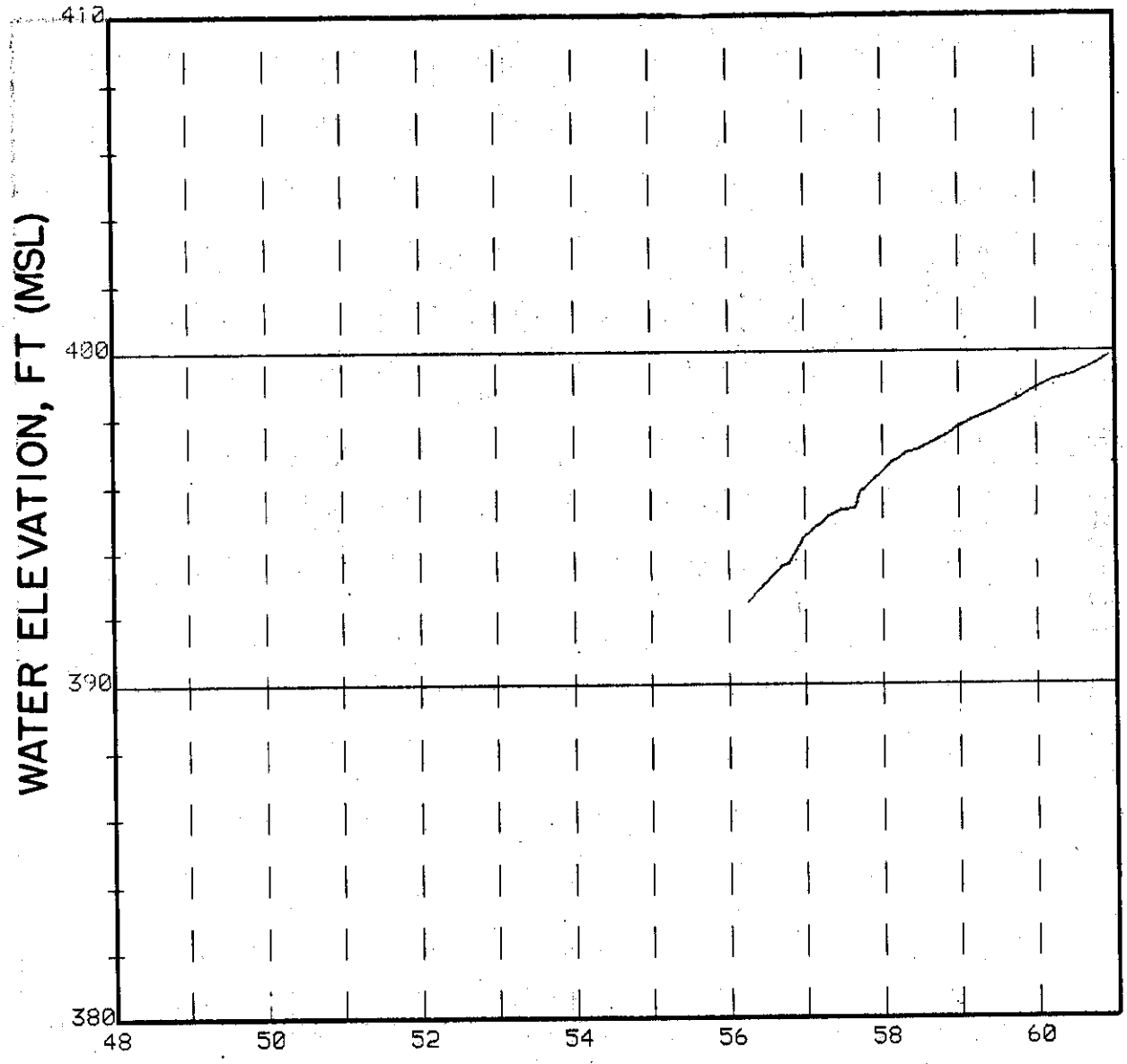
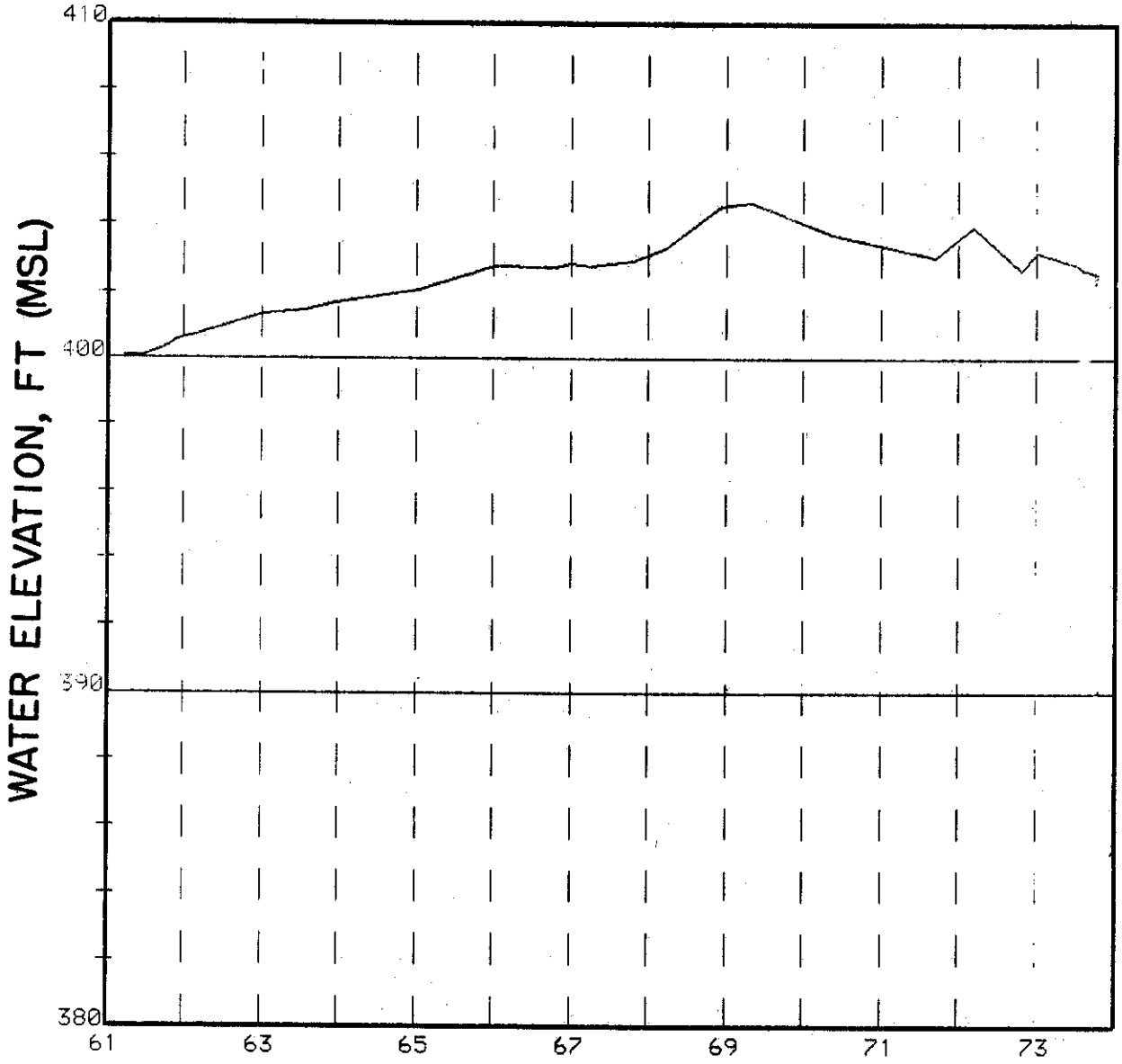


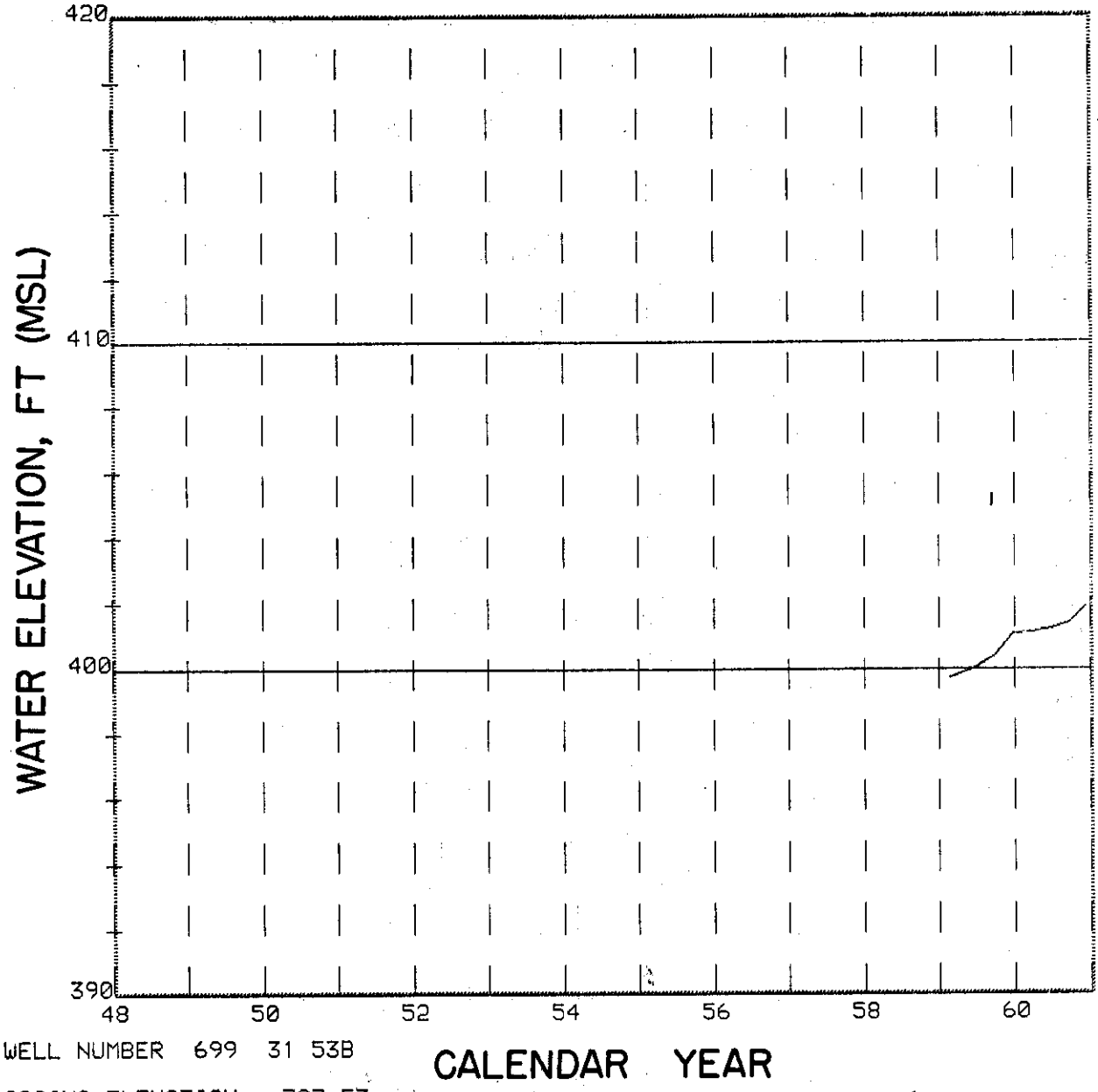
WELL NUMBER 699 31 31

CASING ELEVATION = 529.32



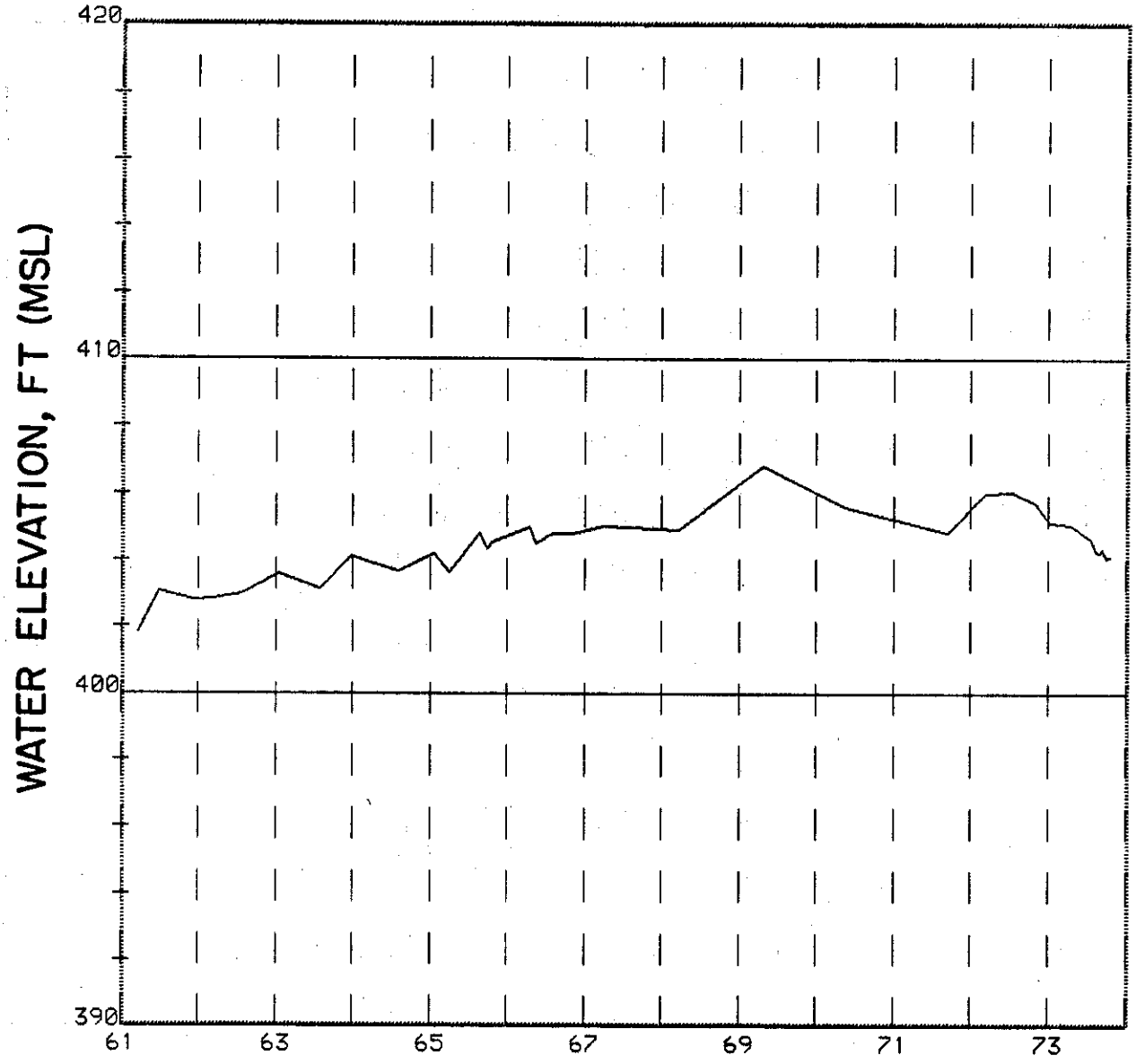
WELL NUMBER 699 31 31

CASING ELEVATION = 529.32



WELL NUMBER 699 31 53B

CASING ELEVATION = 707.53



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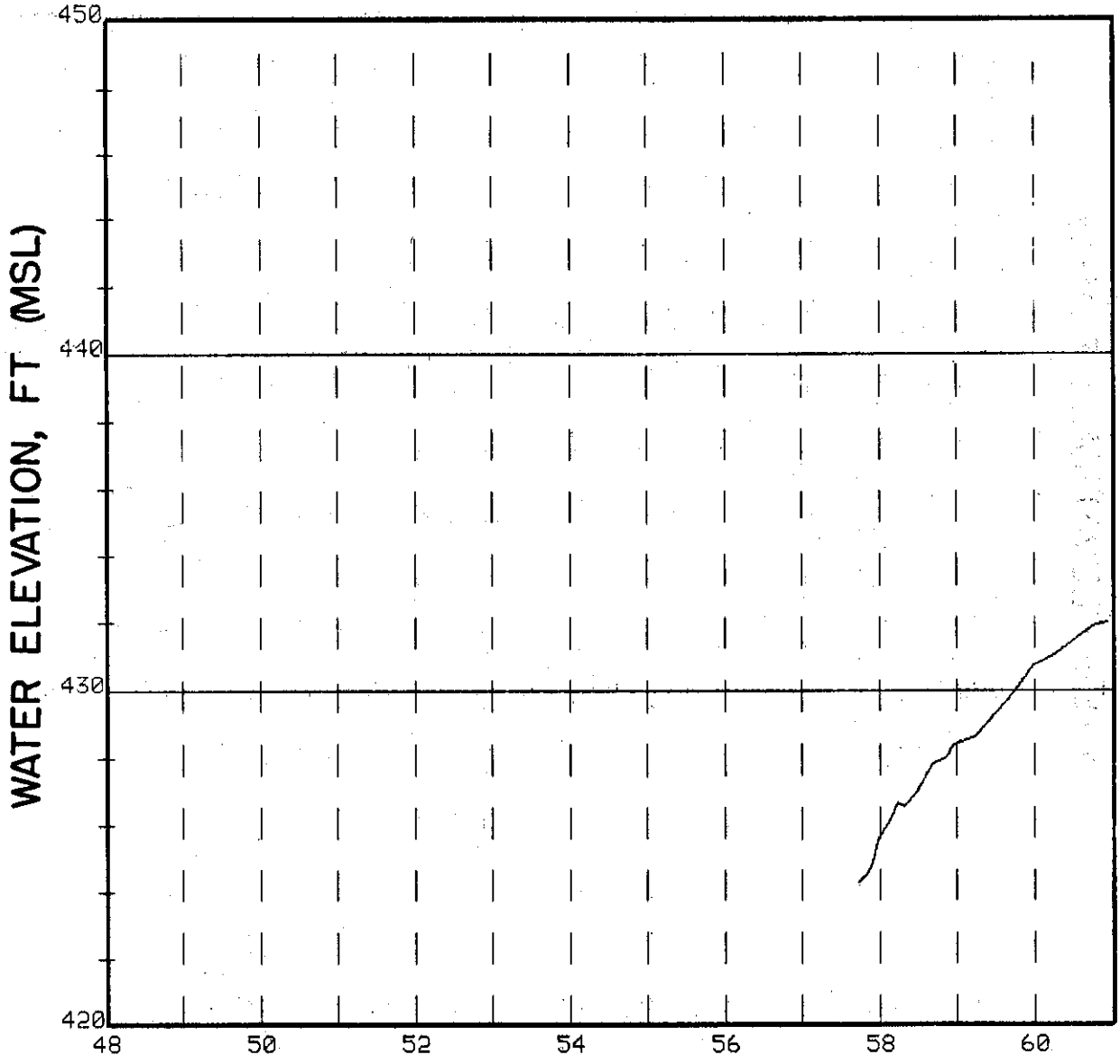

WELL NUMBER 699 31 65

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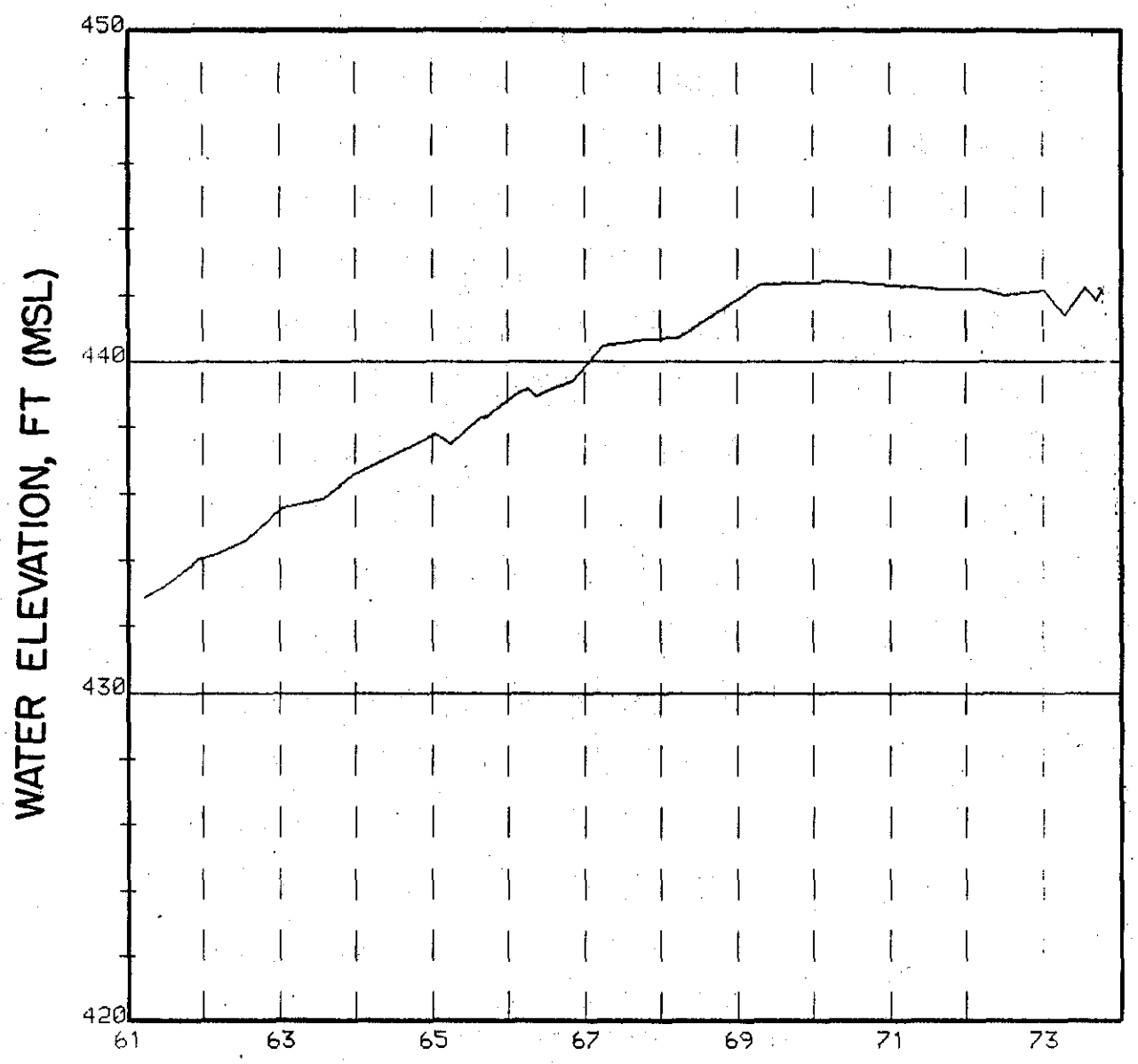

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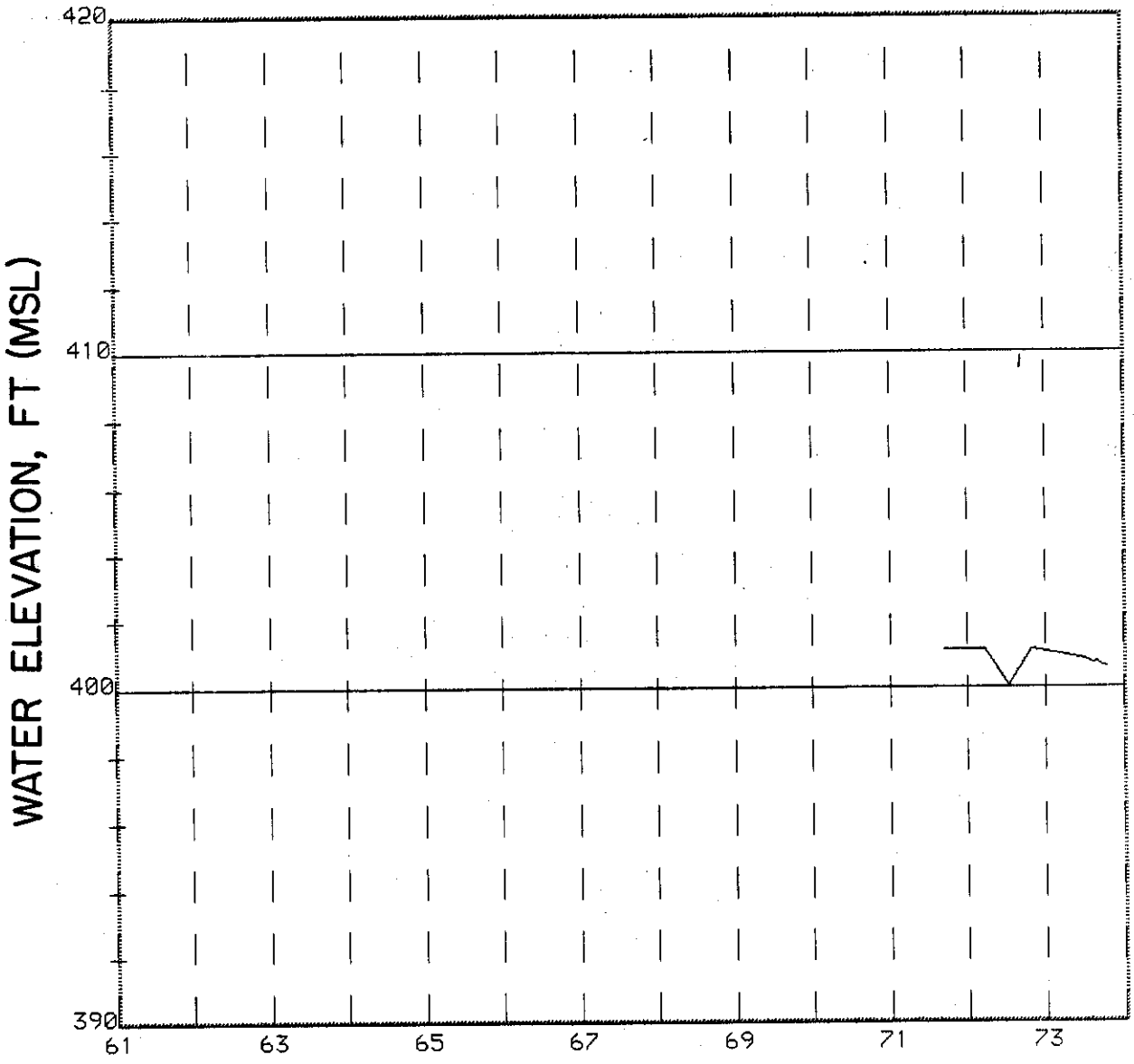
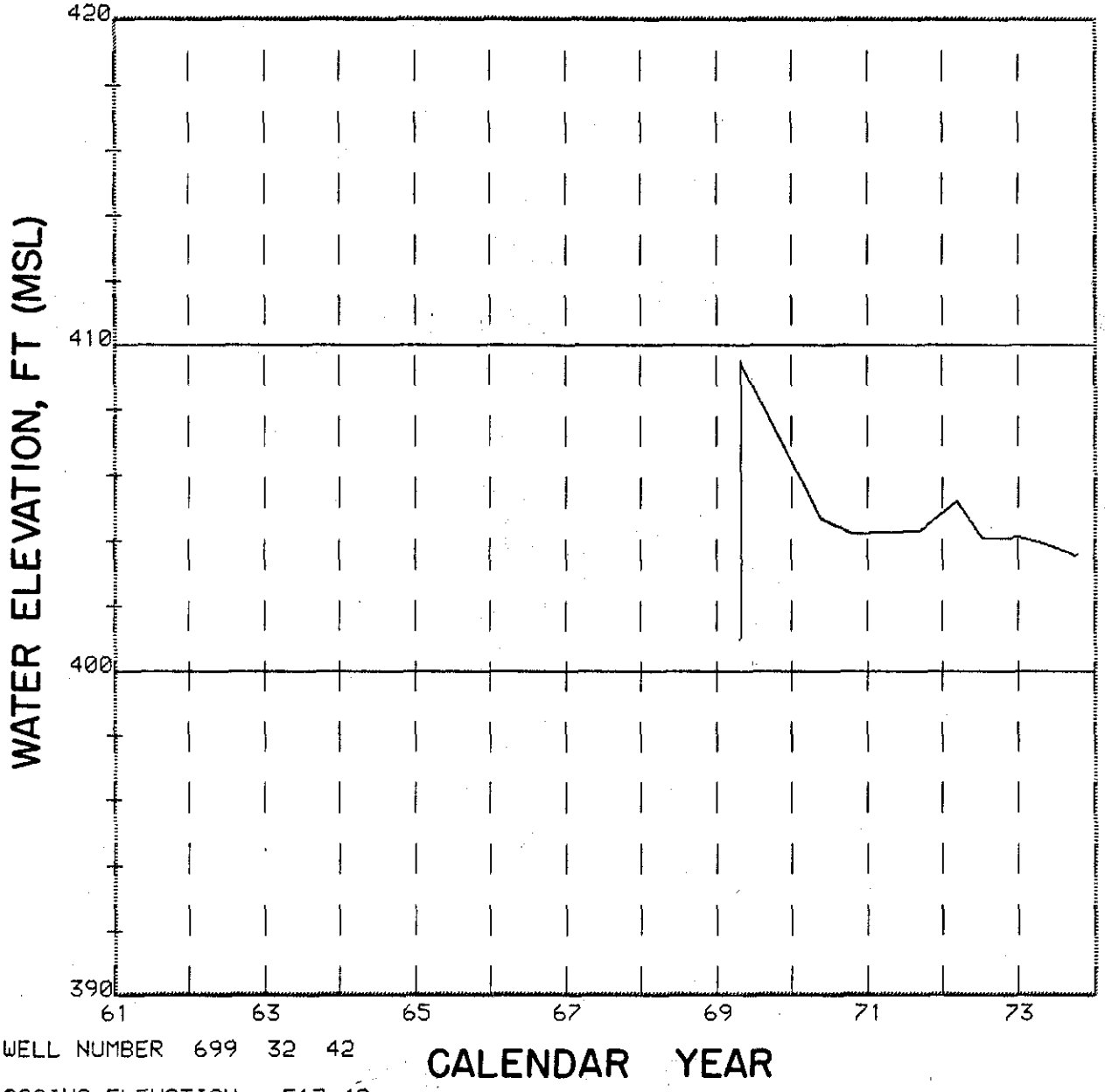


WELL NUMBER 699 32 22

CASING ELEVATION = 517.55



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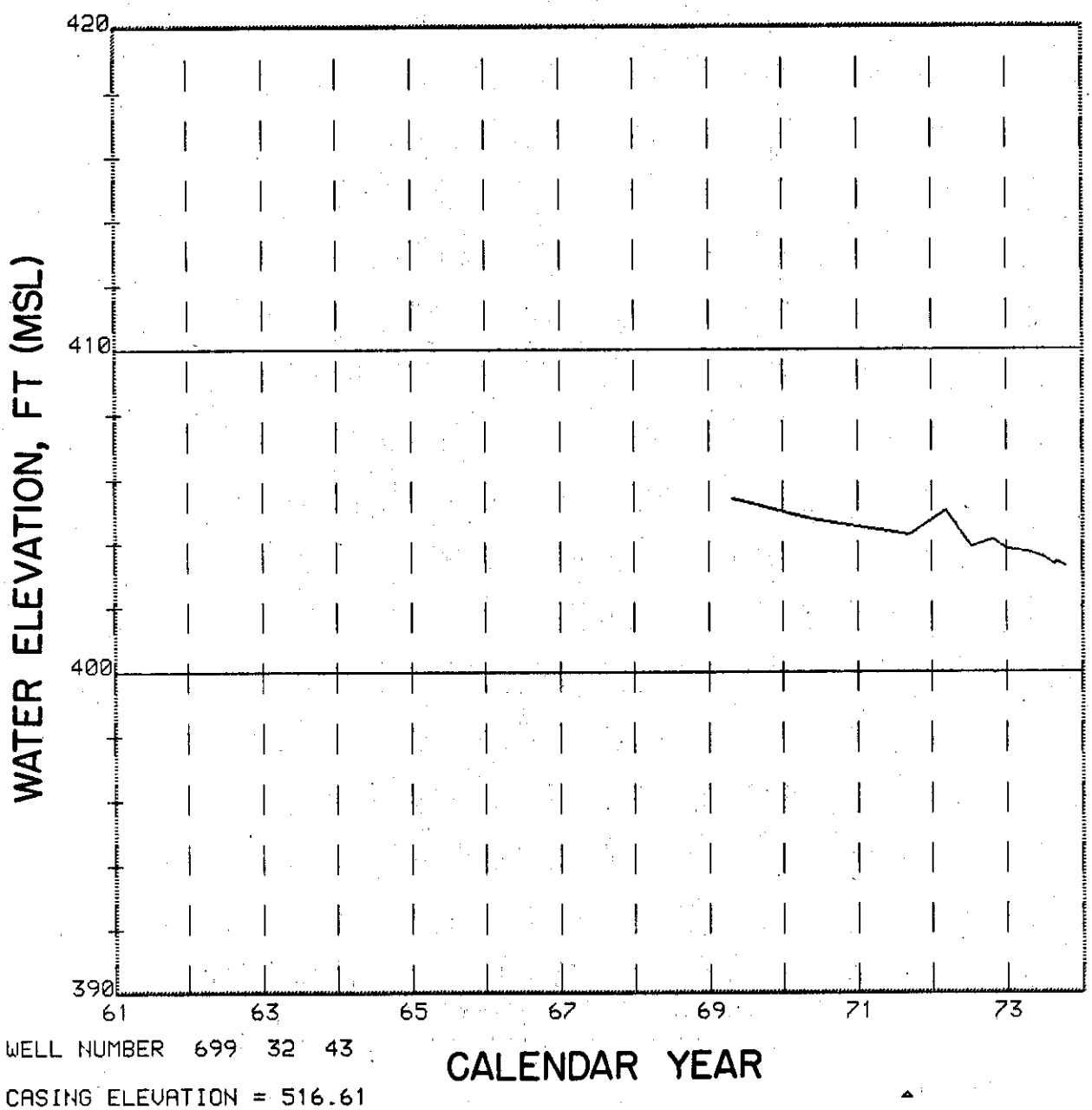

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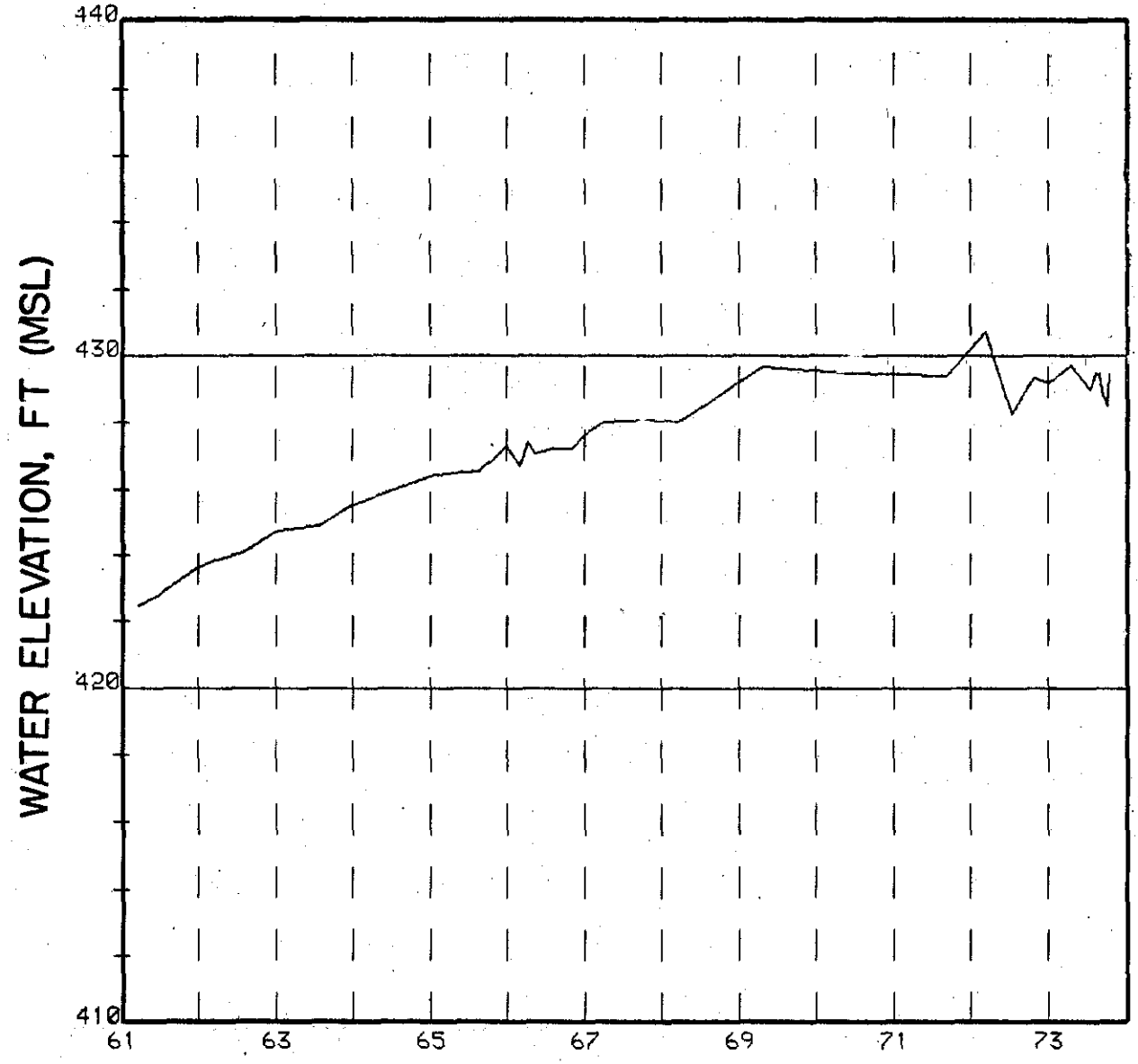
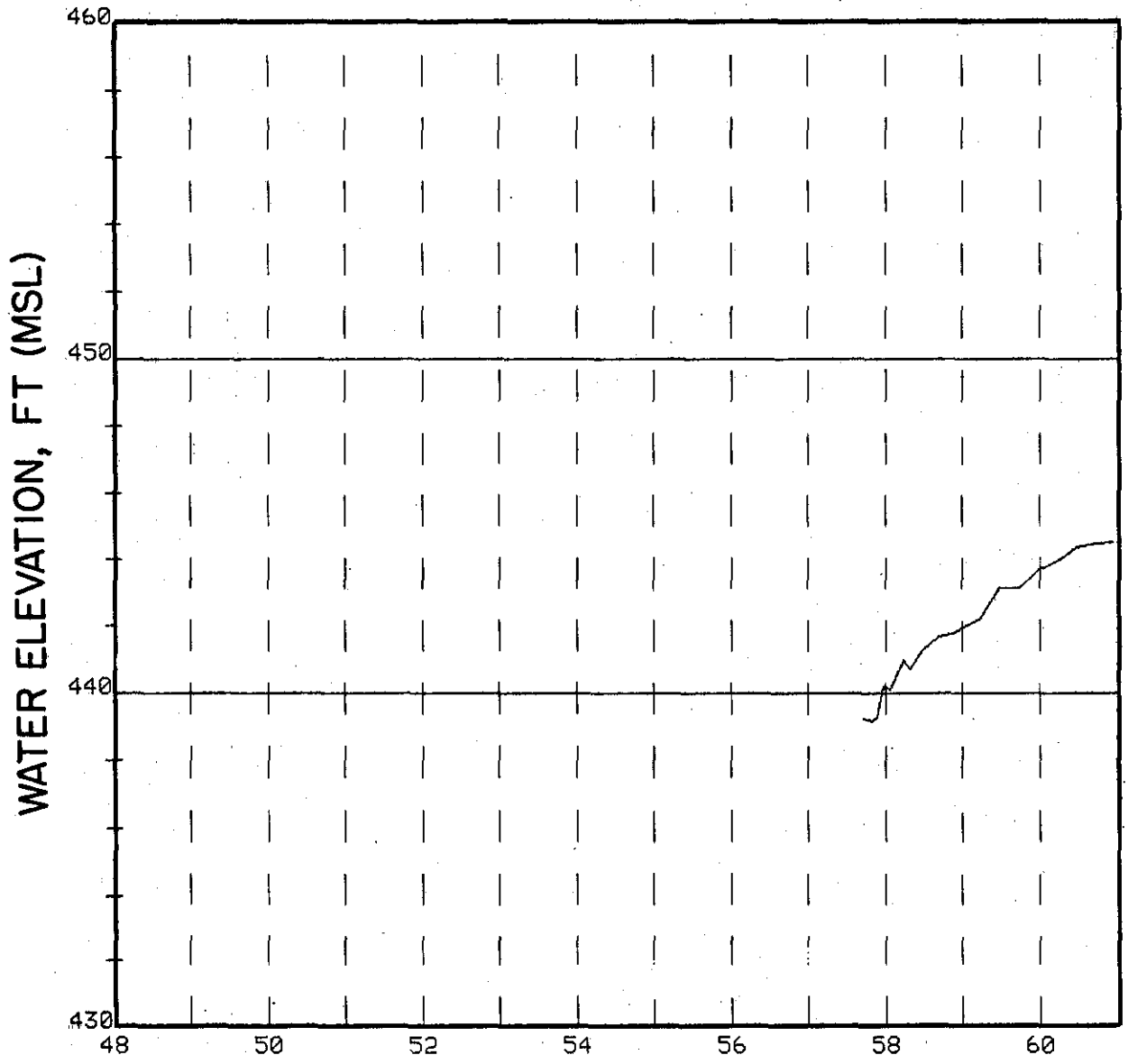


WELL NUMBER 699 32 62

CASING ELEVATION = 707.09



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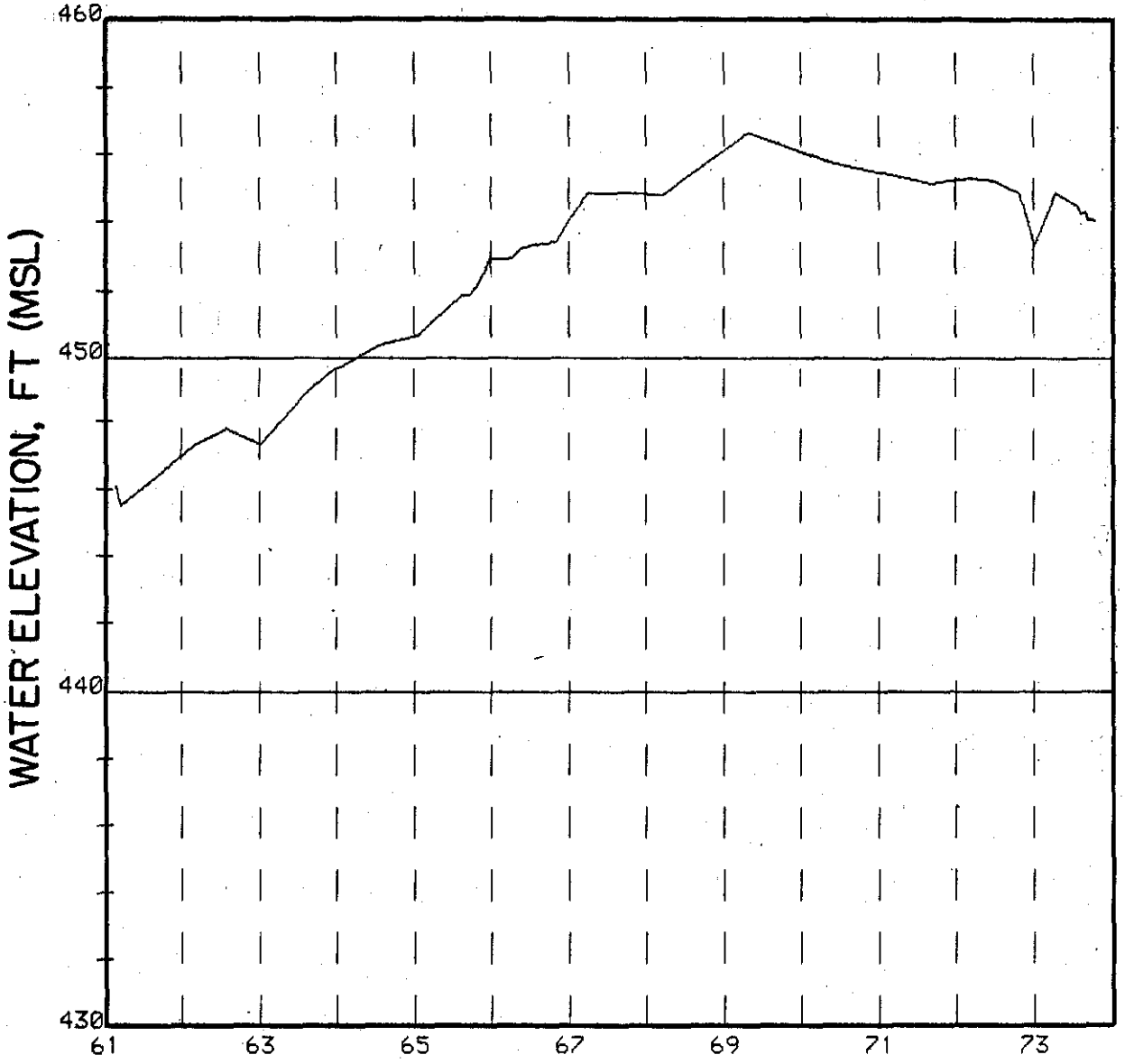
CASING ELEVATION = 666.61



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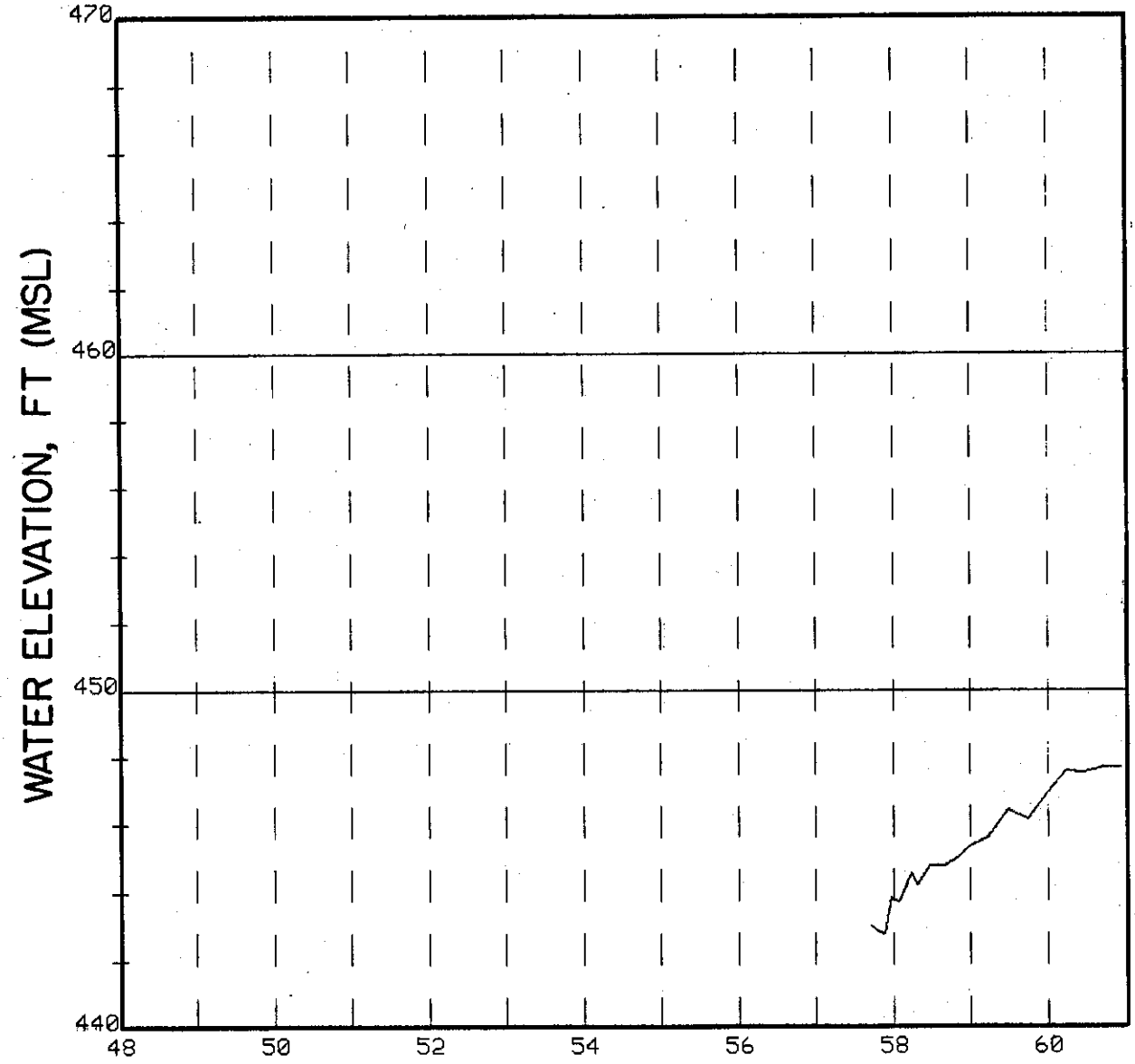

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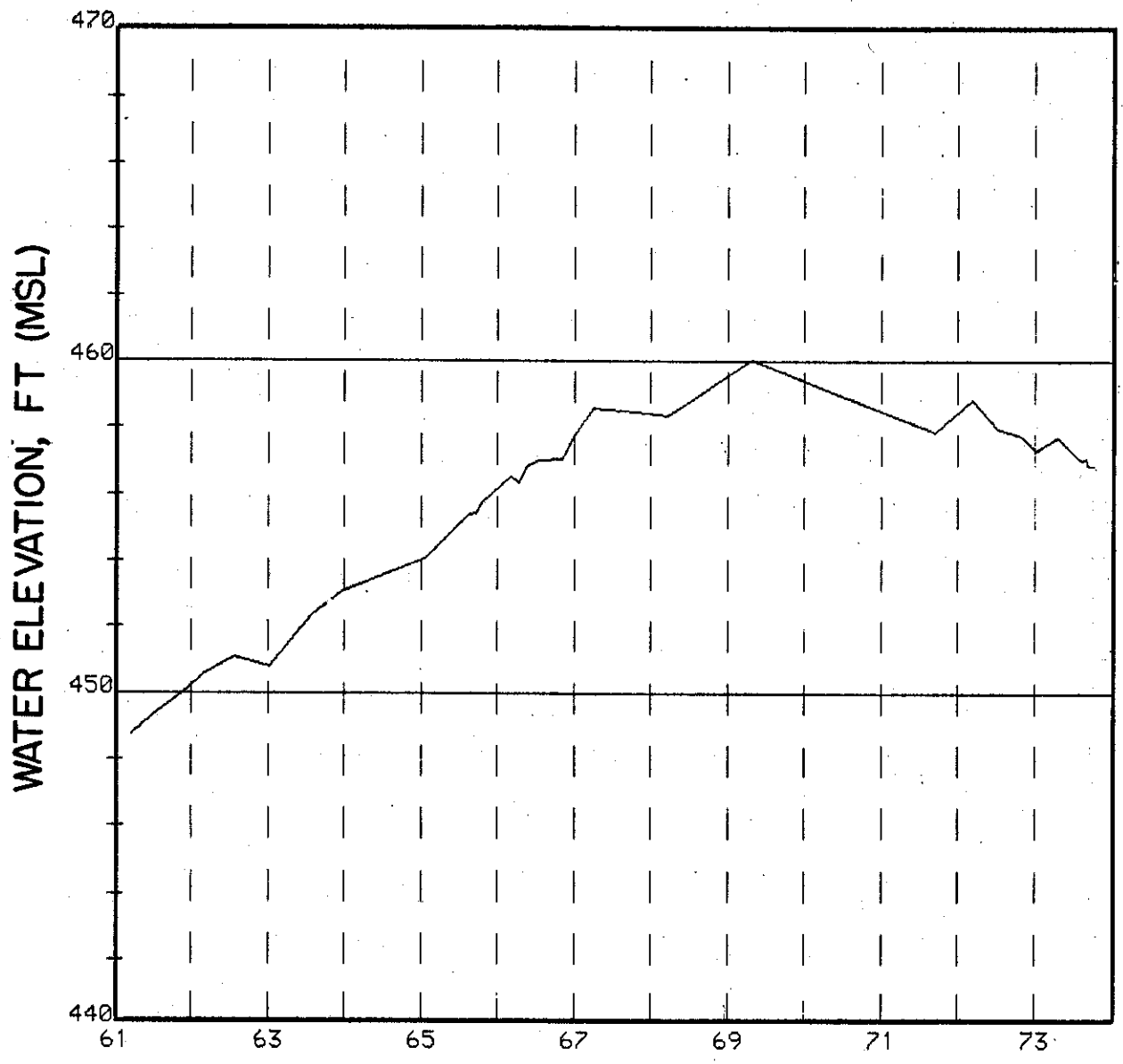
CASING ELEVATION = 668.16



WELL NUMBER 699 32 72

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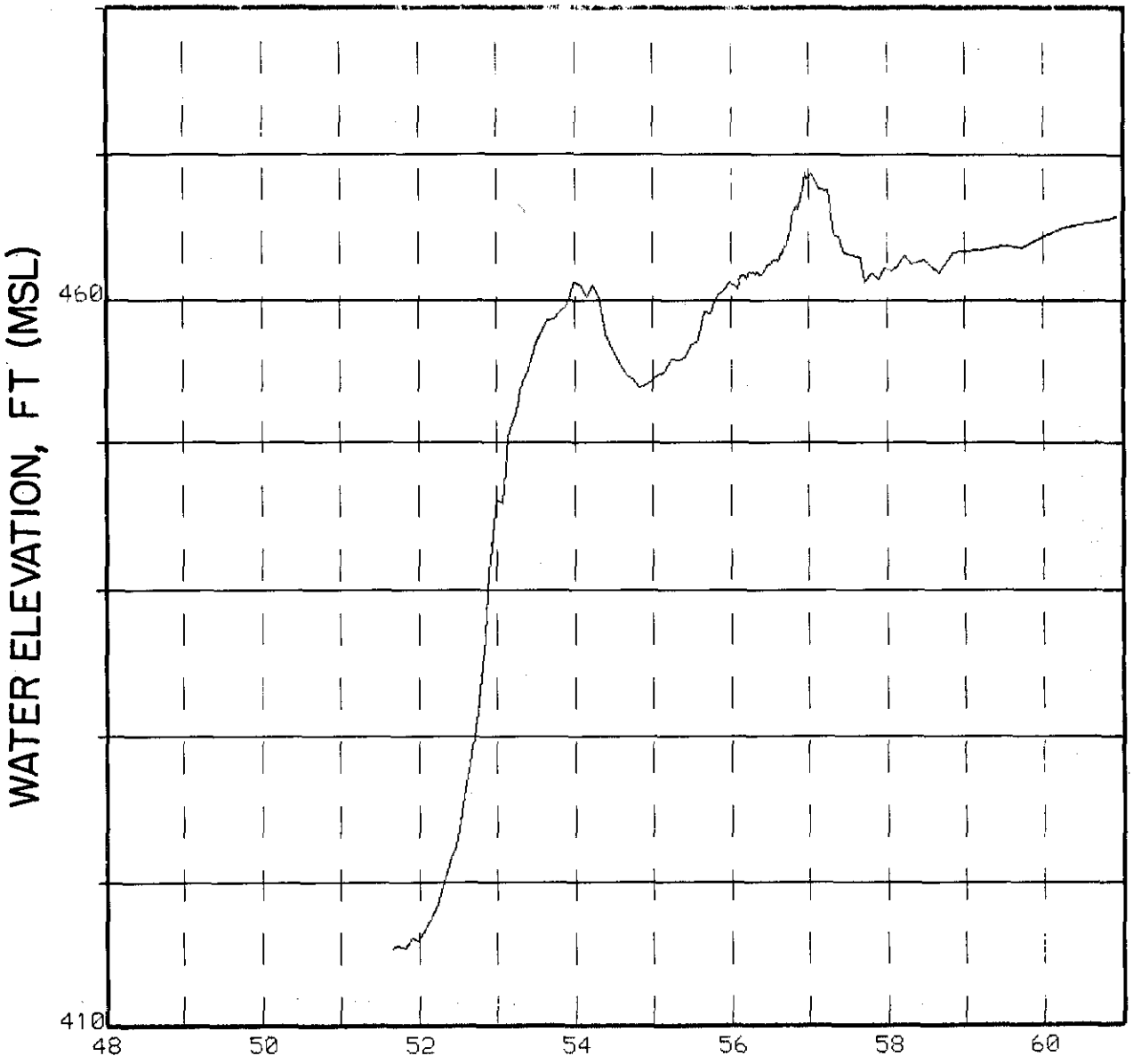
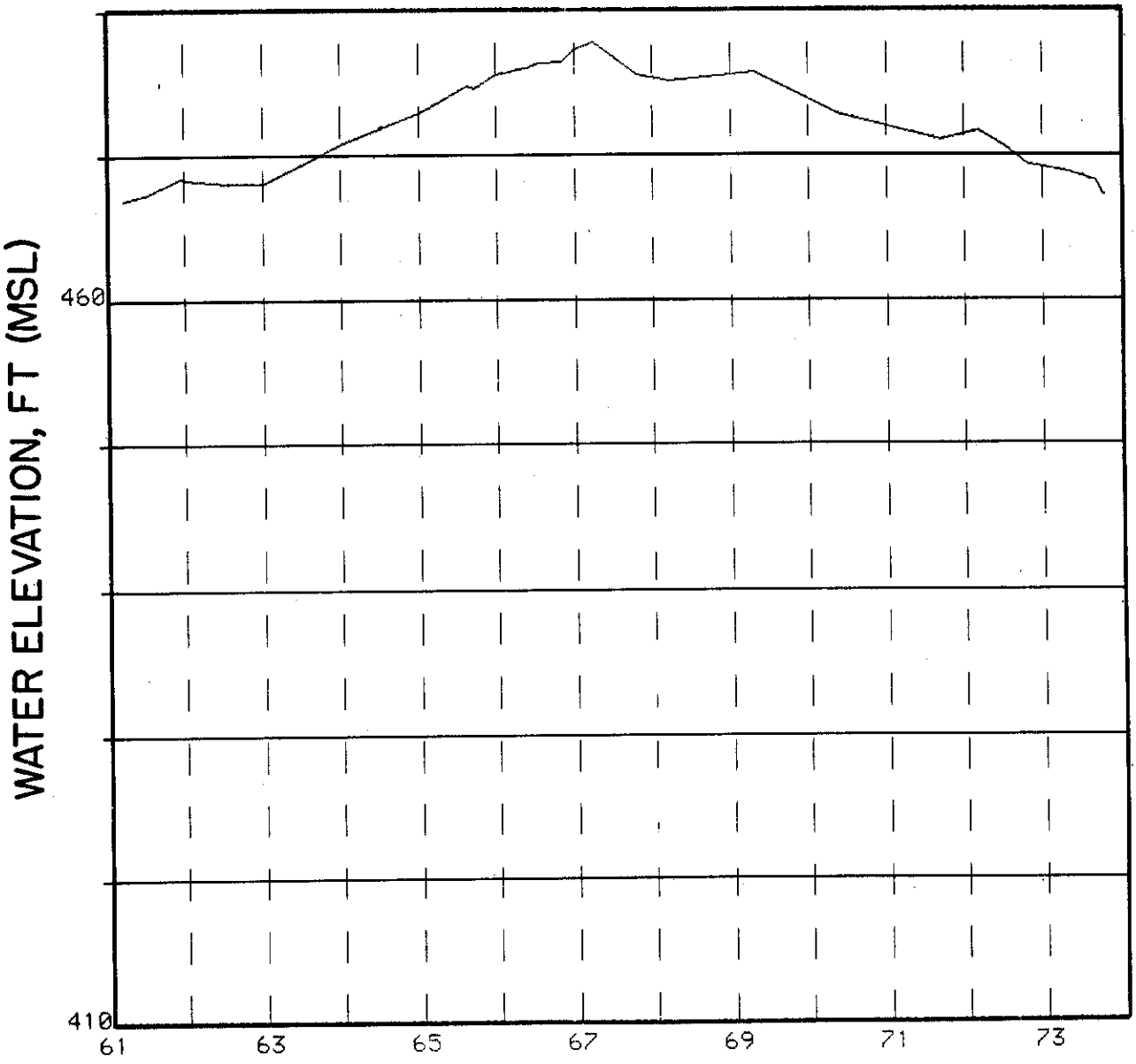


WELL NUMBER 699 32 77

CASING ELEVATION = 653.74



WELL NUMBER 699 32 77

CASING ELEVATION = 653.74

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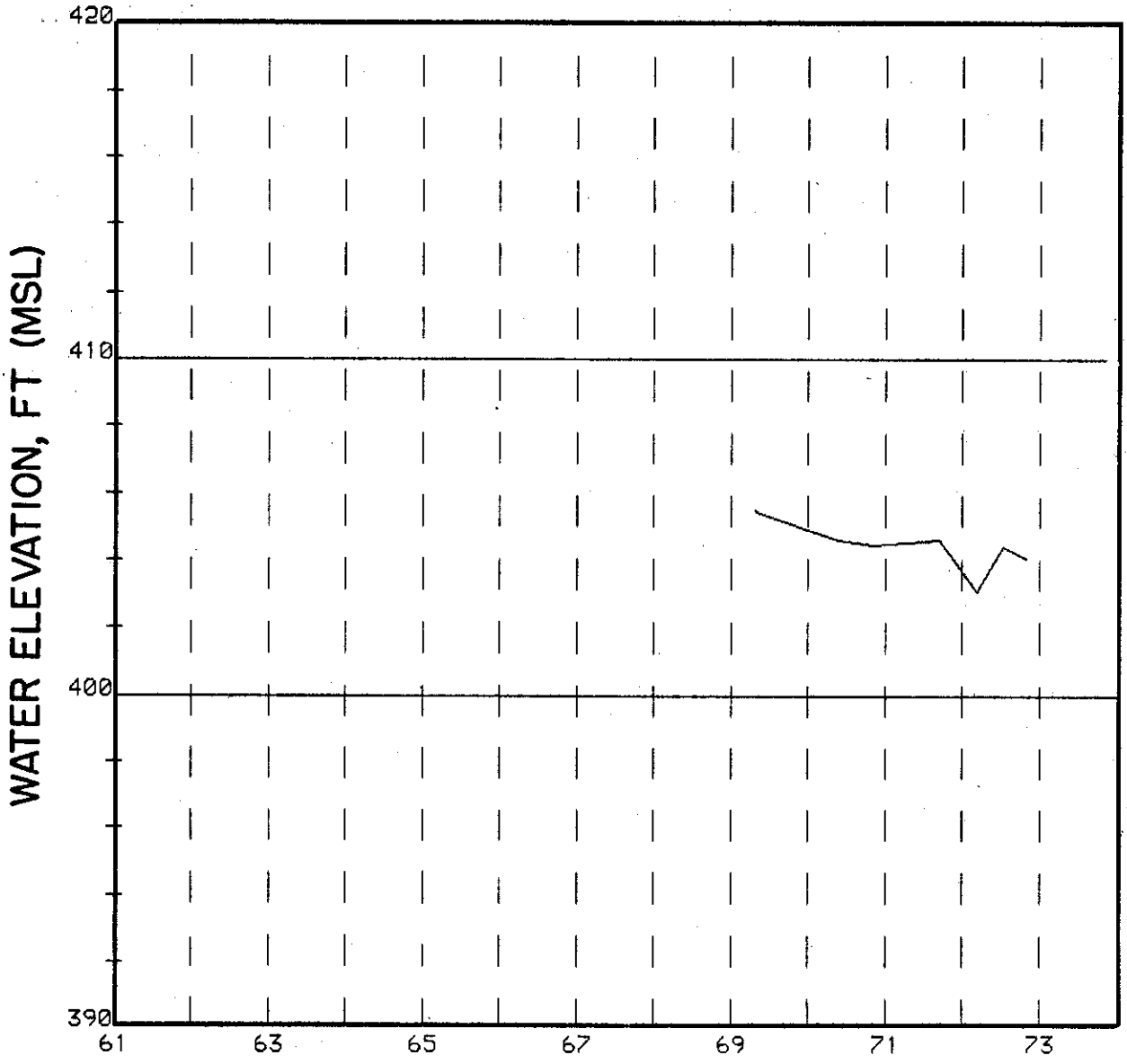
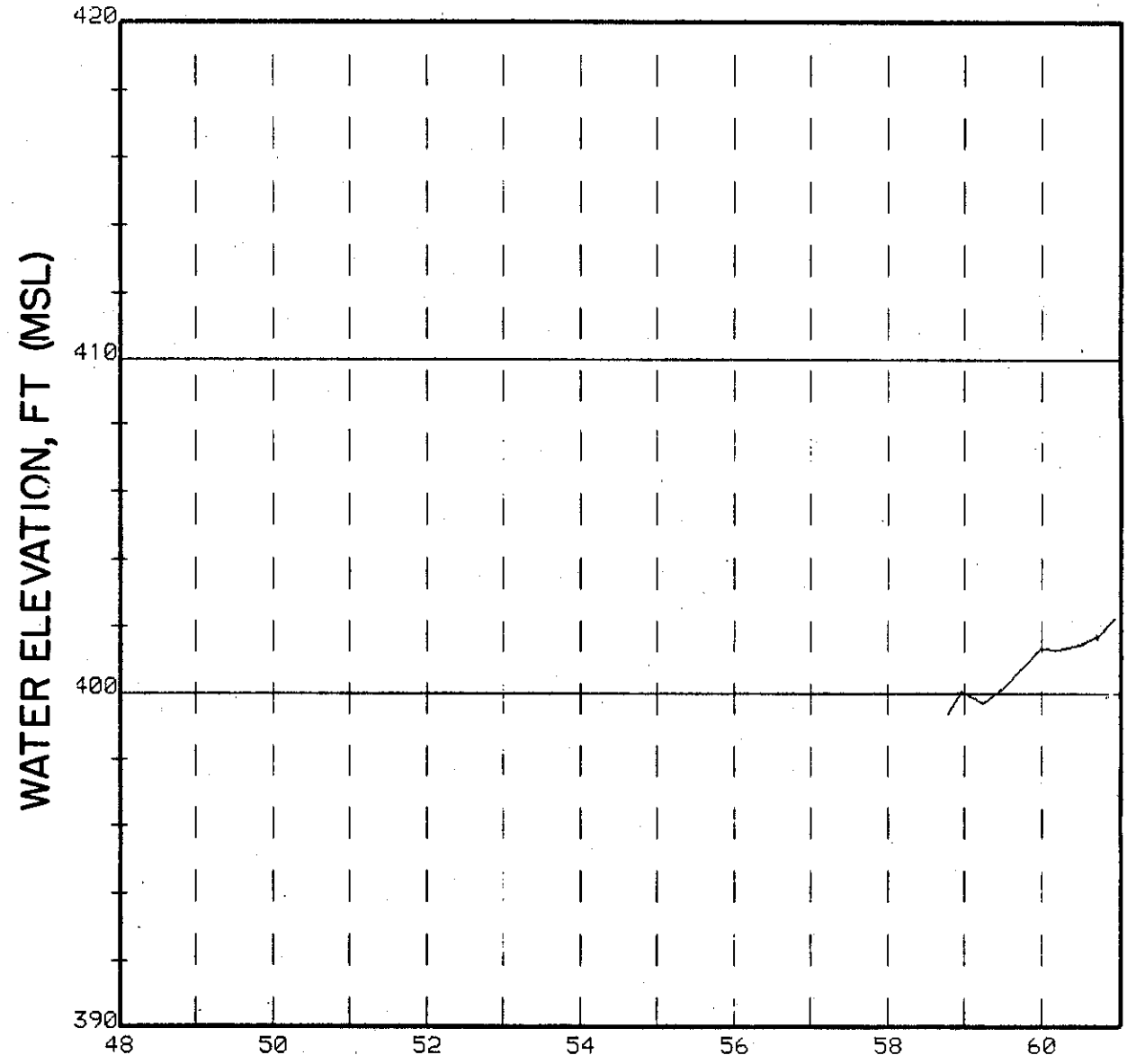


WELL NUMBER 699 33 42

CASING ELEVATION = 515.97



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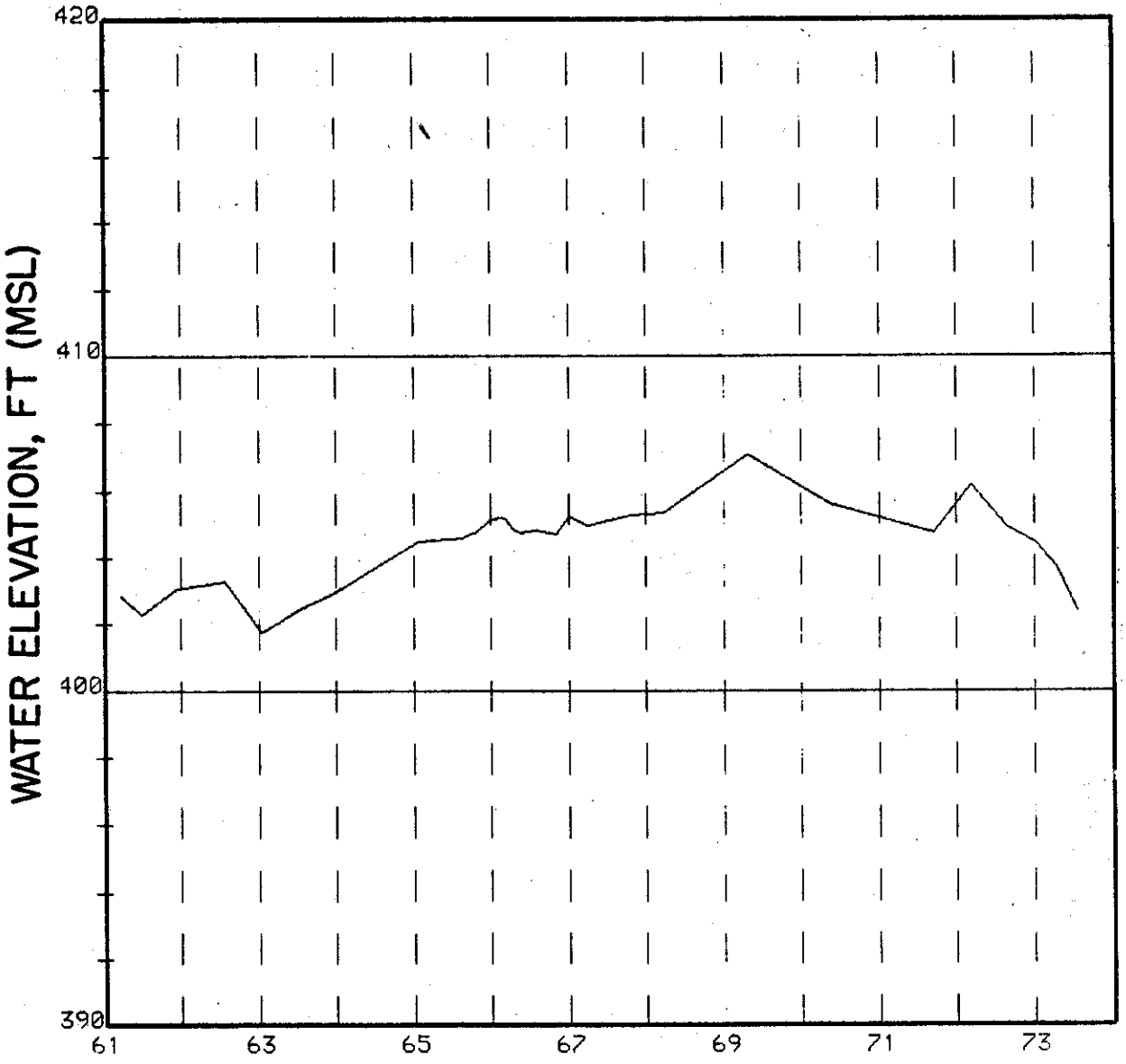

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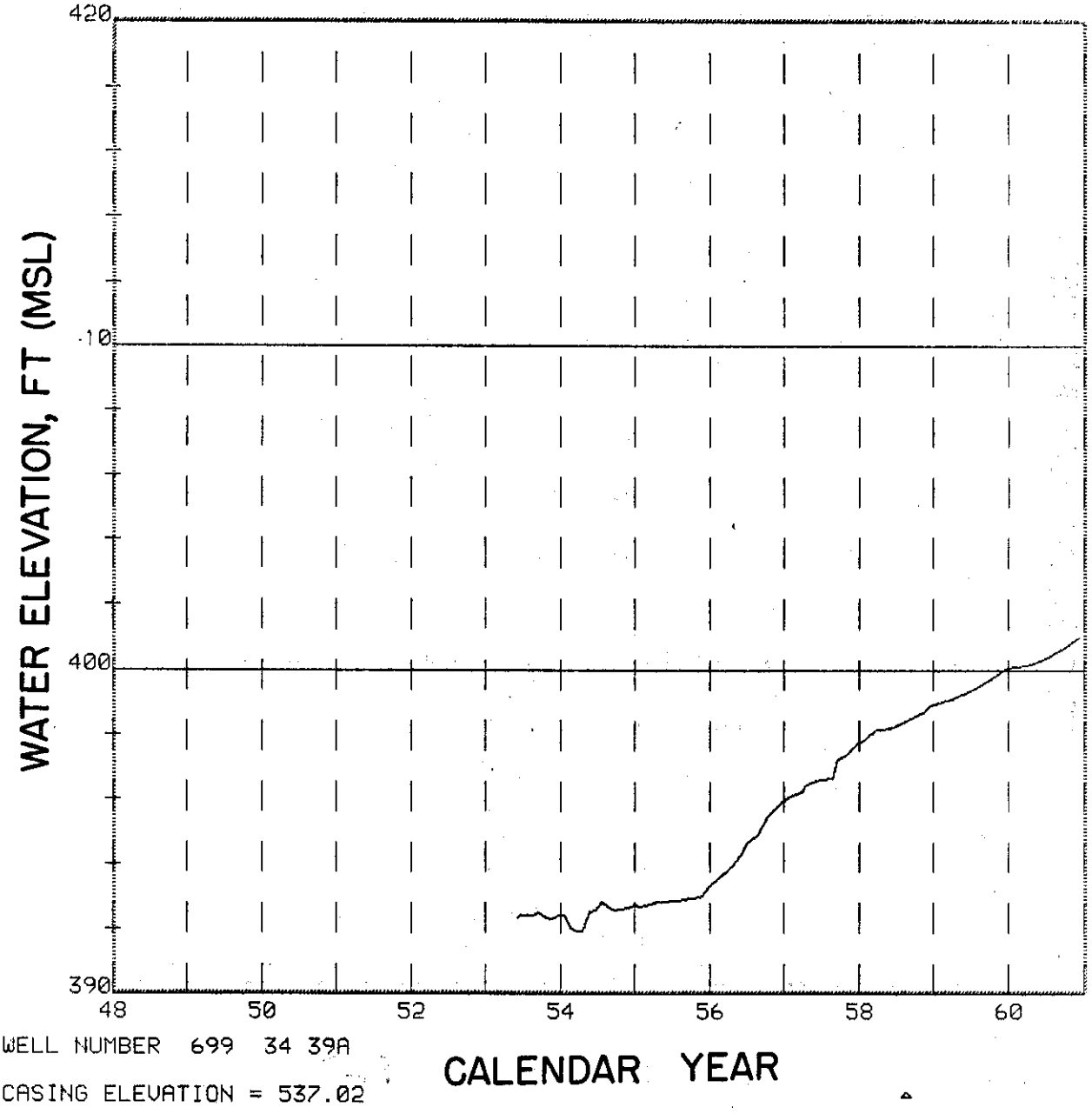

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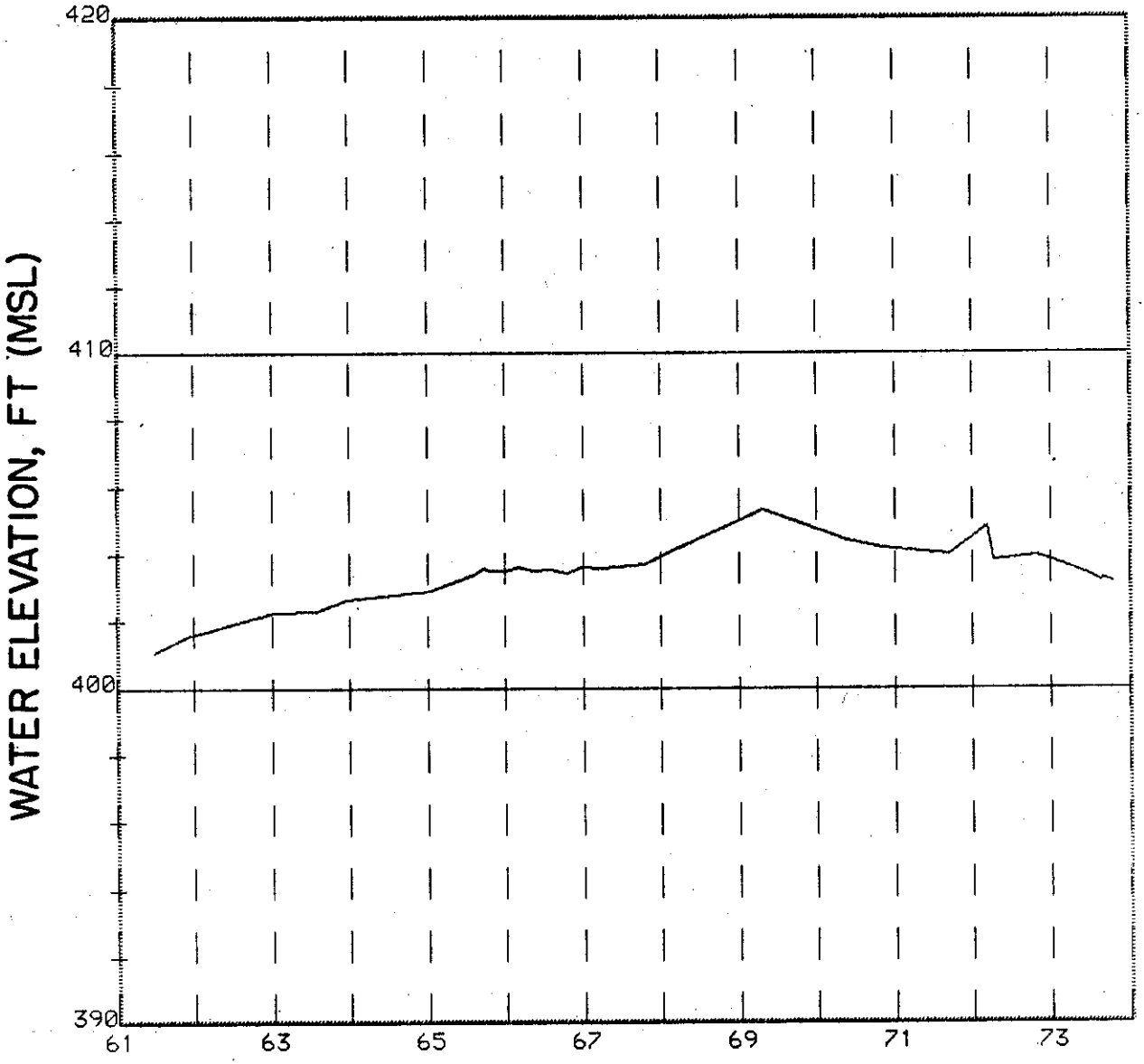

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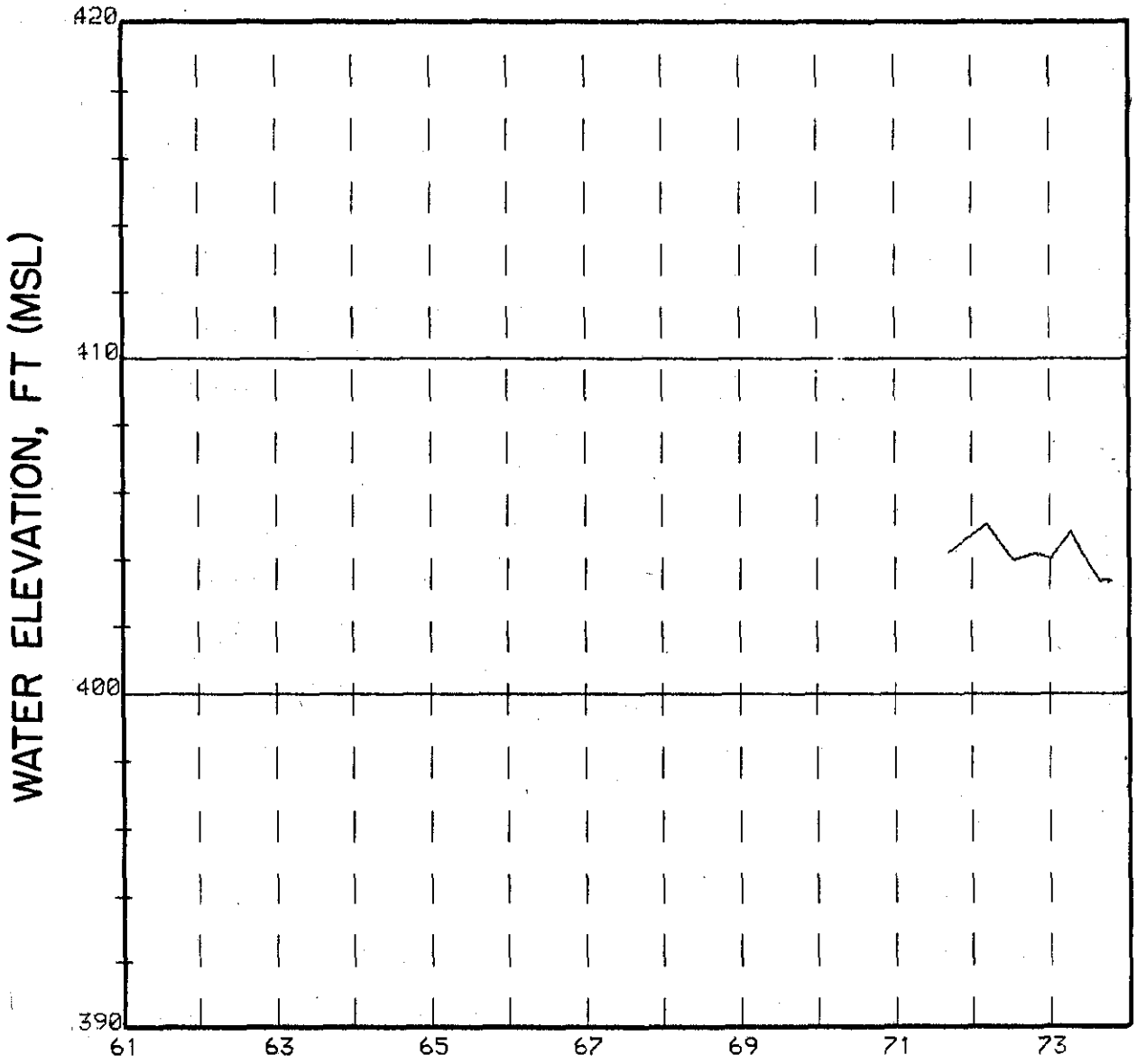

WELL NUMBER 699 34 41

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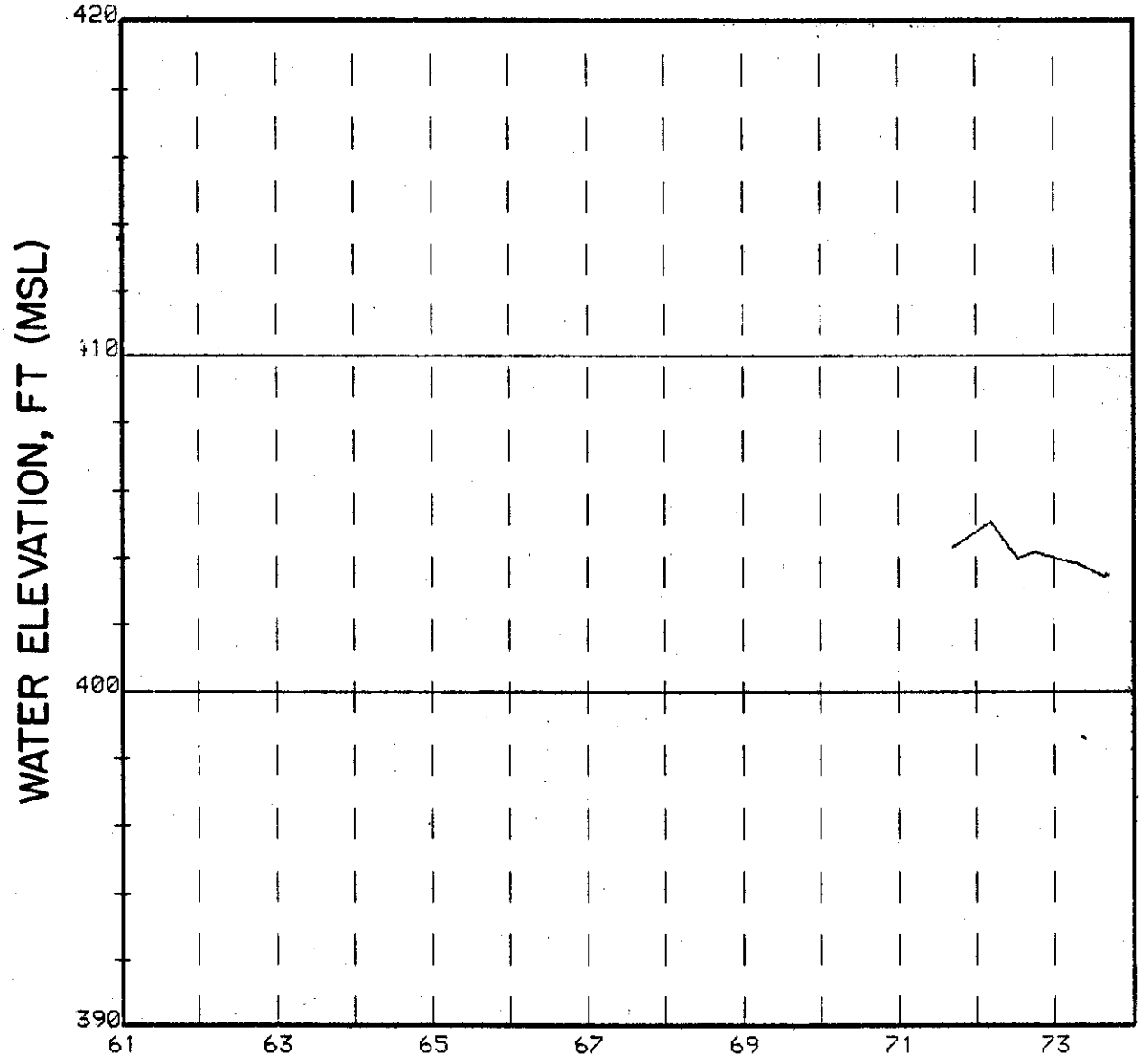
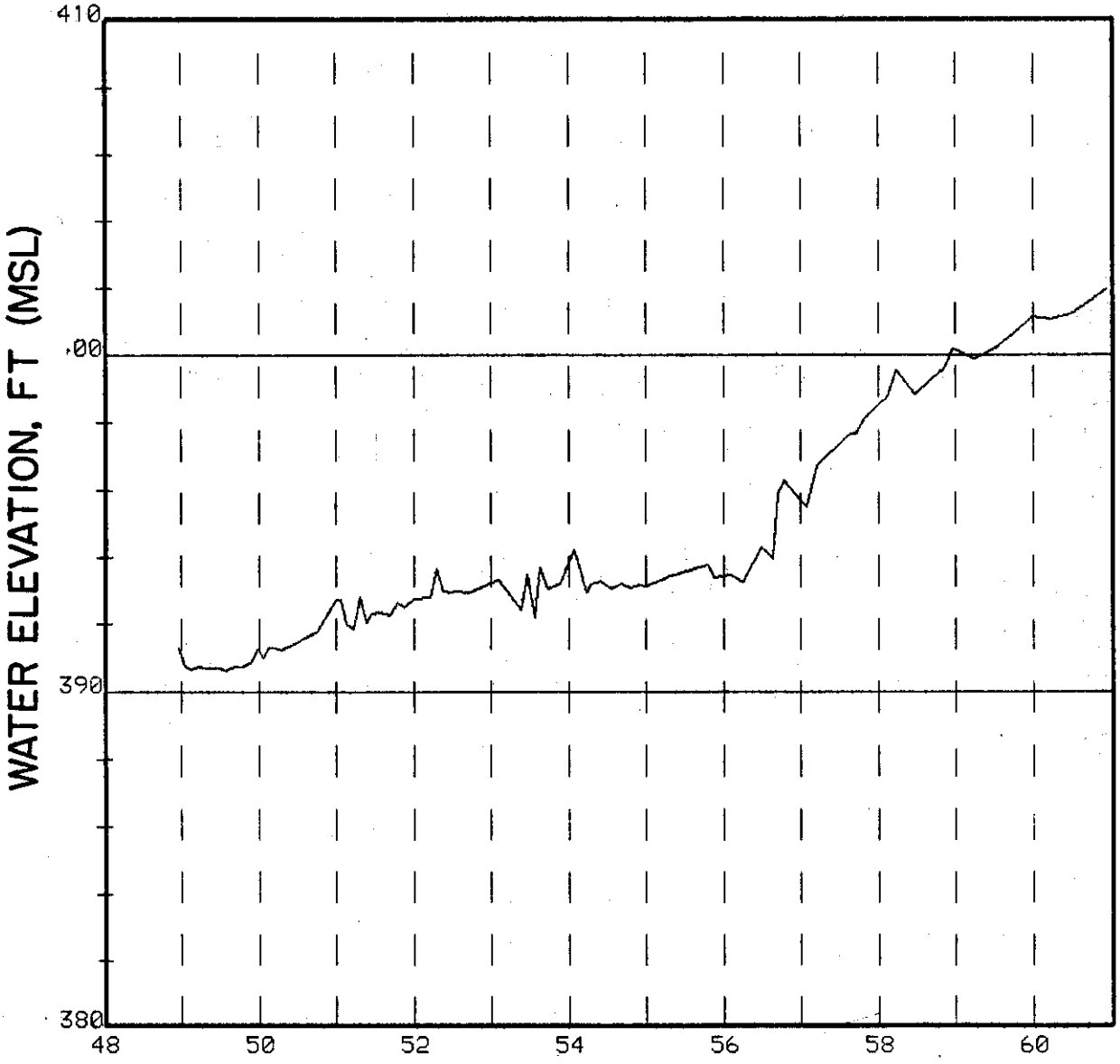


WELL NUMBER 699 34 42

CASING ELEVATION = 540.20



WELL NUMBER 699 34 51

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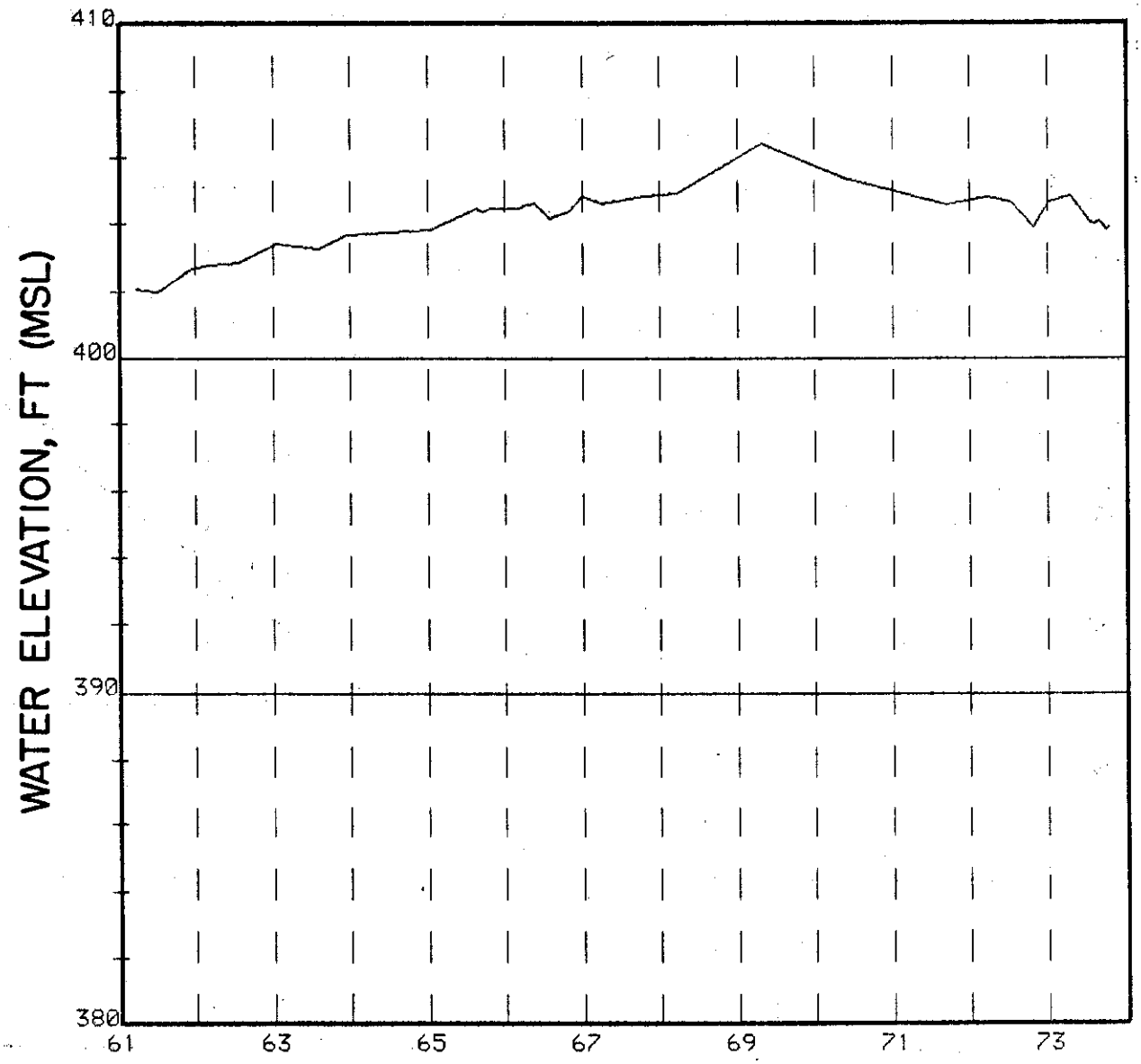

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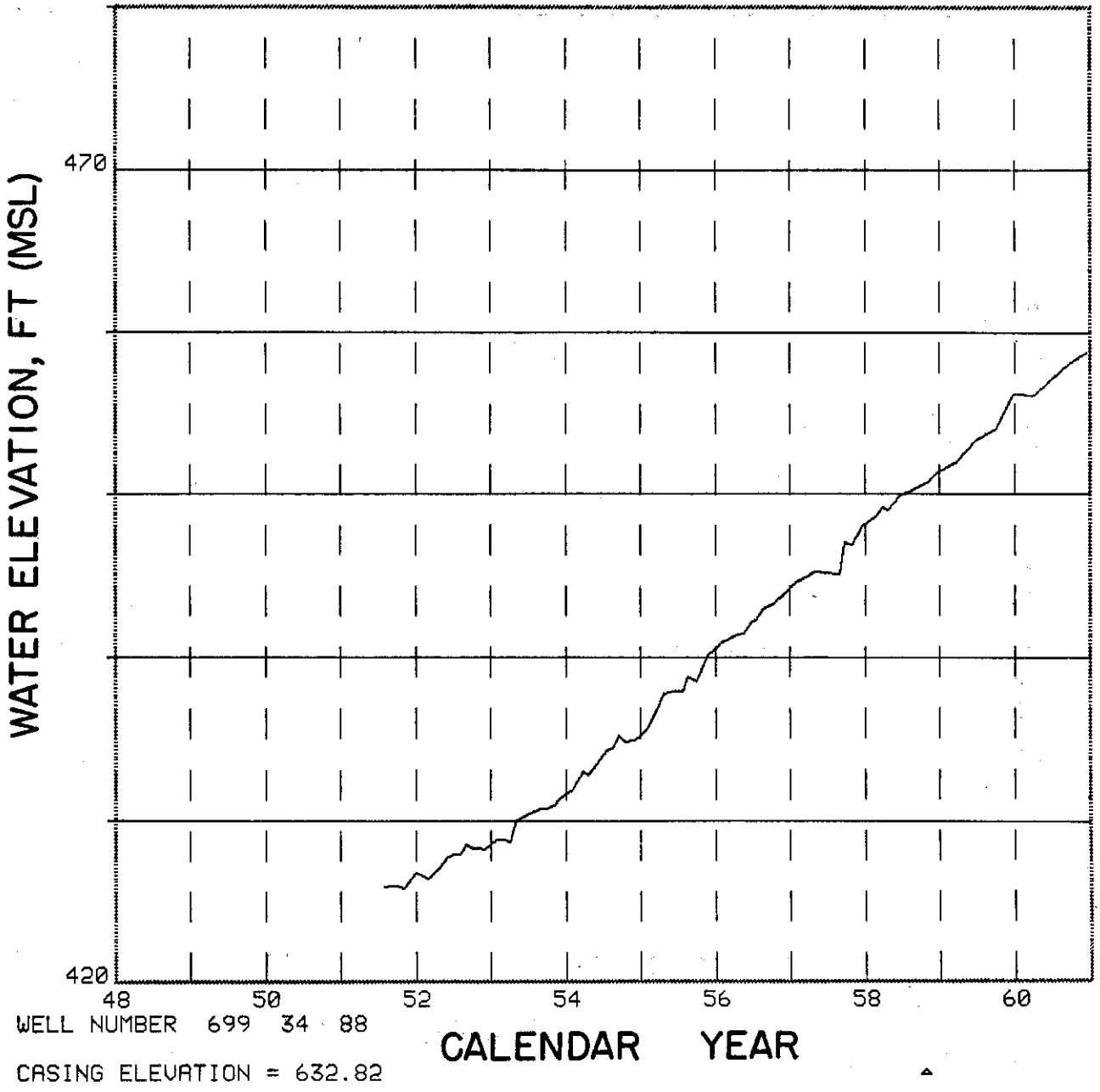
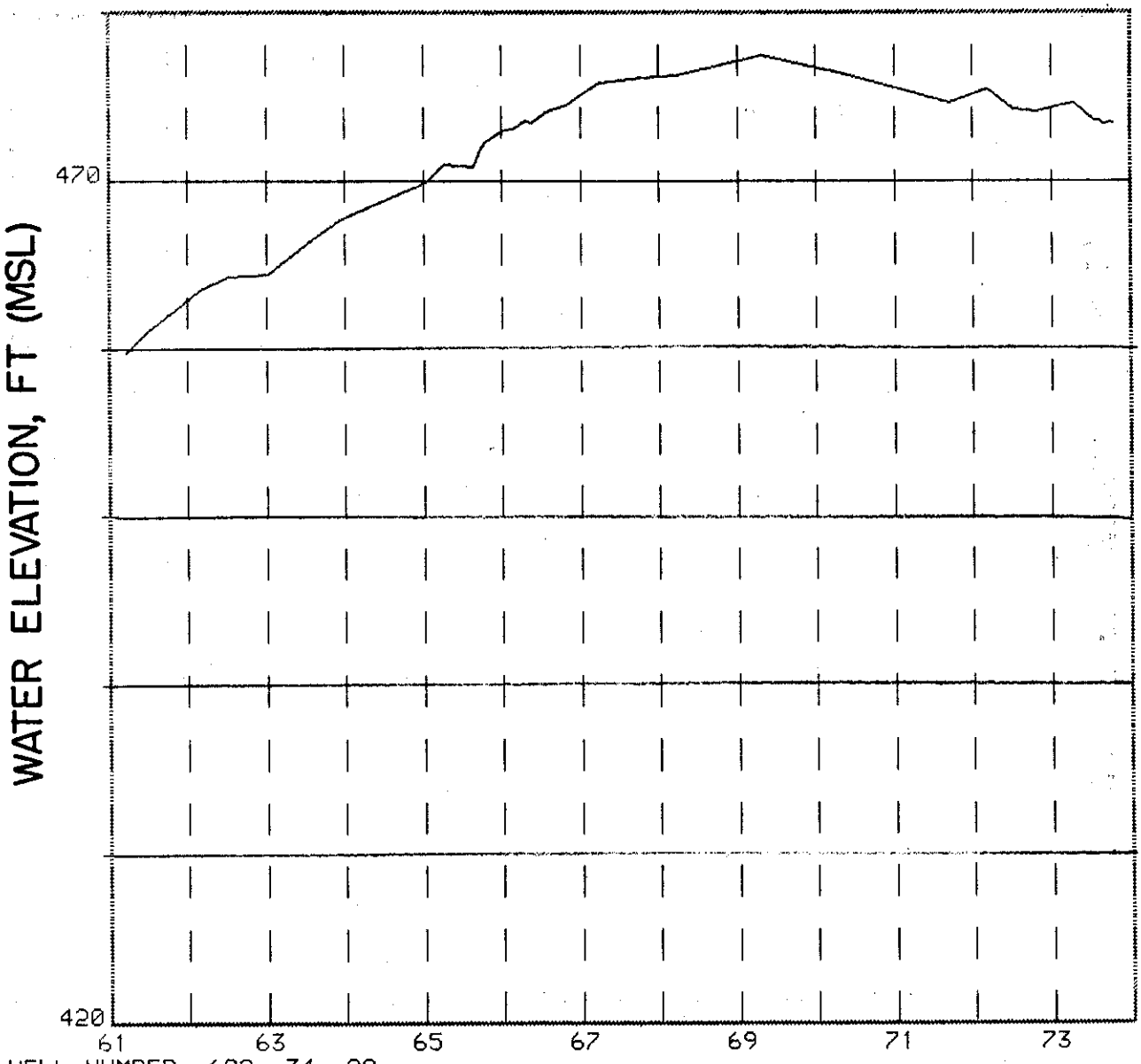

WATER ELEVATION, FT (MSL)
470
420
48
50
52
54
56
58
60
CALENDAR YEAR
WELL NUMBER 699 34 88
CASING ELEVATION = 632.82



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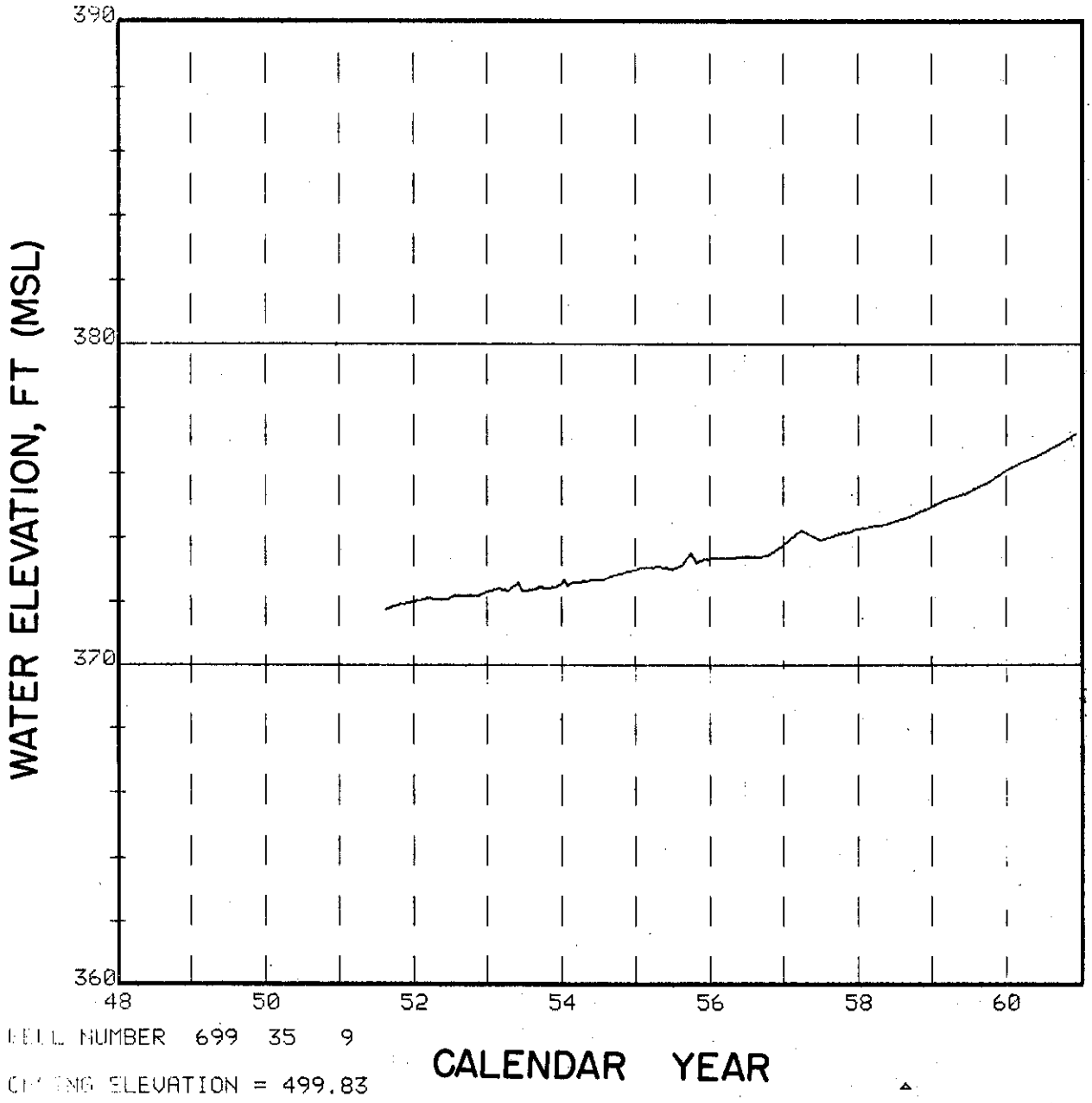
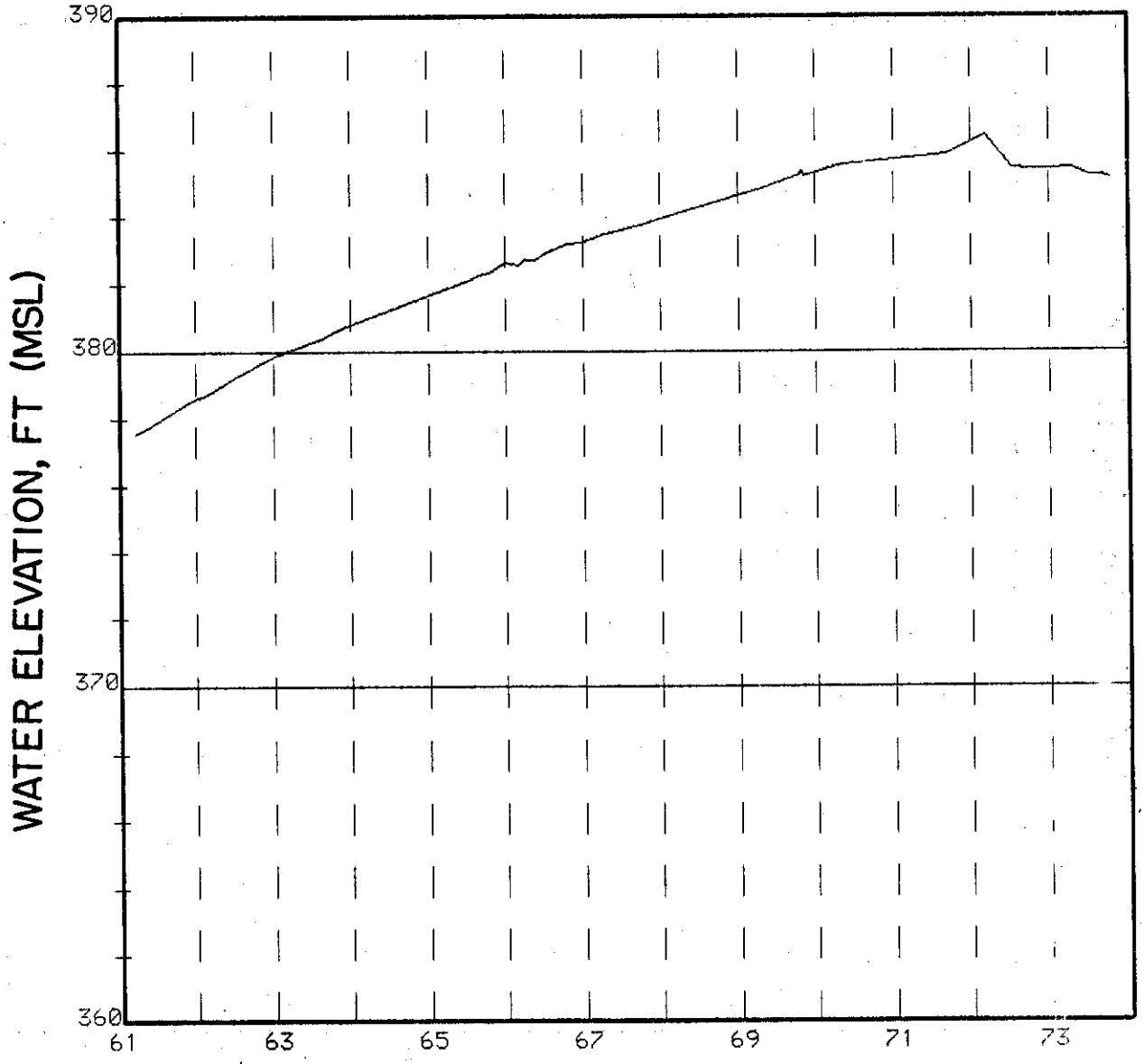
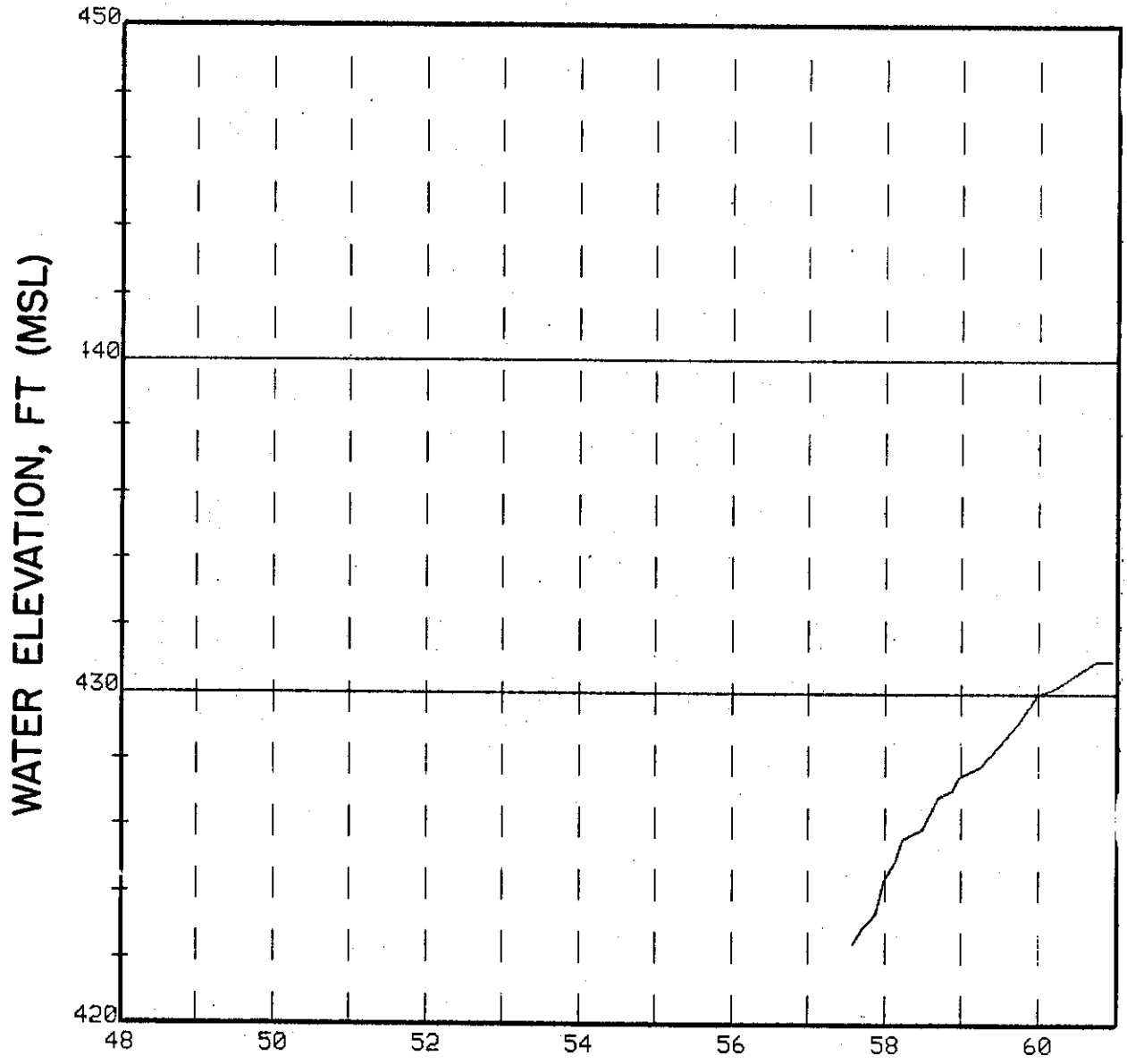

390
380
370
360
WATER ELEVATION, FT (MSL)
48
50
52
54
56
58
60
CALENDAR YEAR
WELL NUMBER 699 35 9
CASING ELEVATION = 499.83



WELL NUMBER 699 35 9

CASING ELEVATION = 499.83



WELL NUMBER 699 35 66

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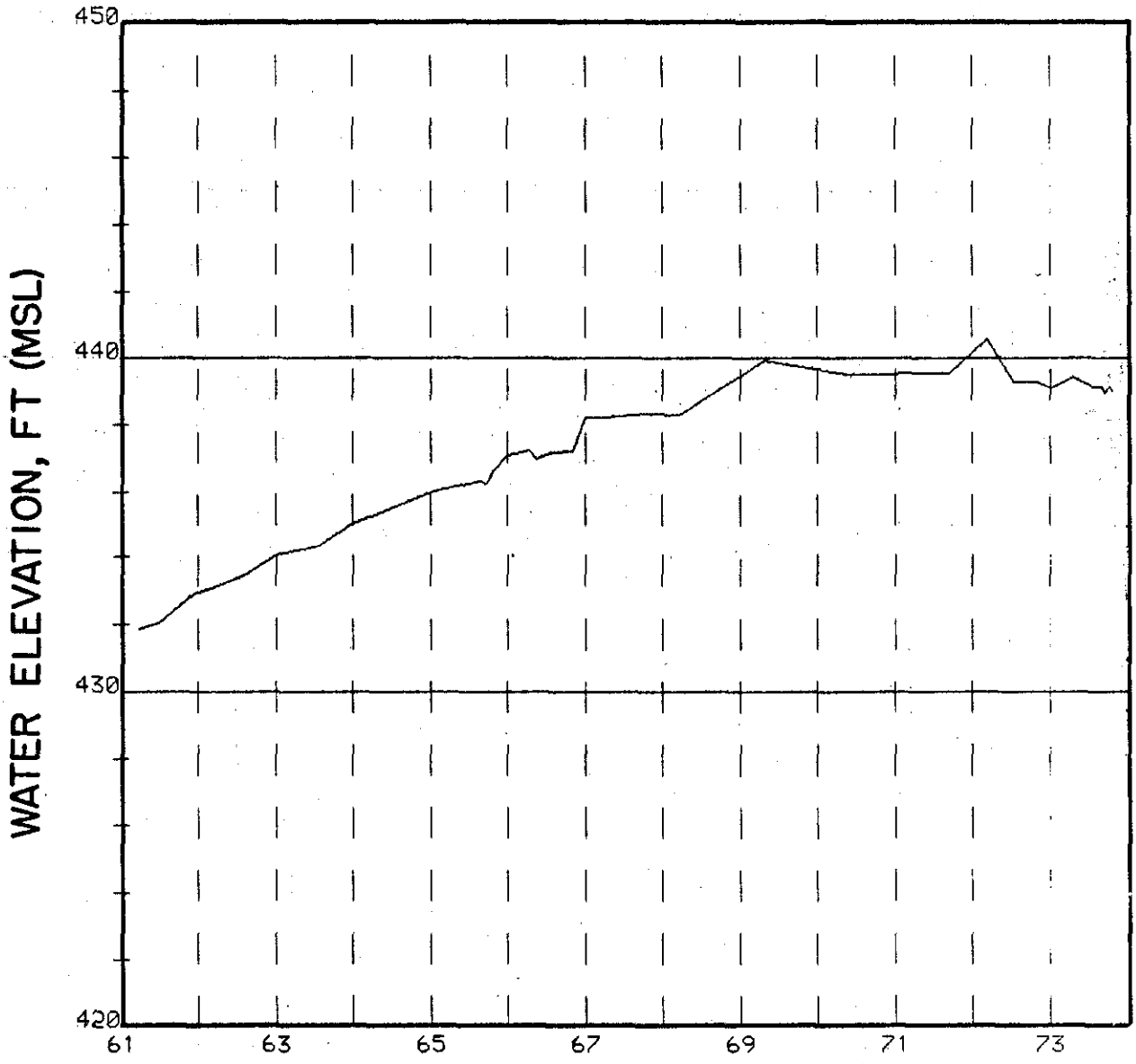

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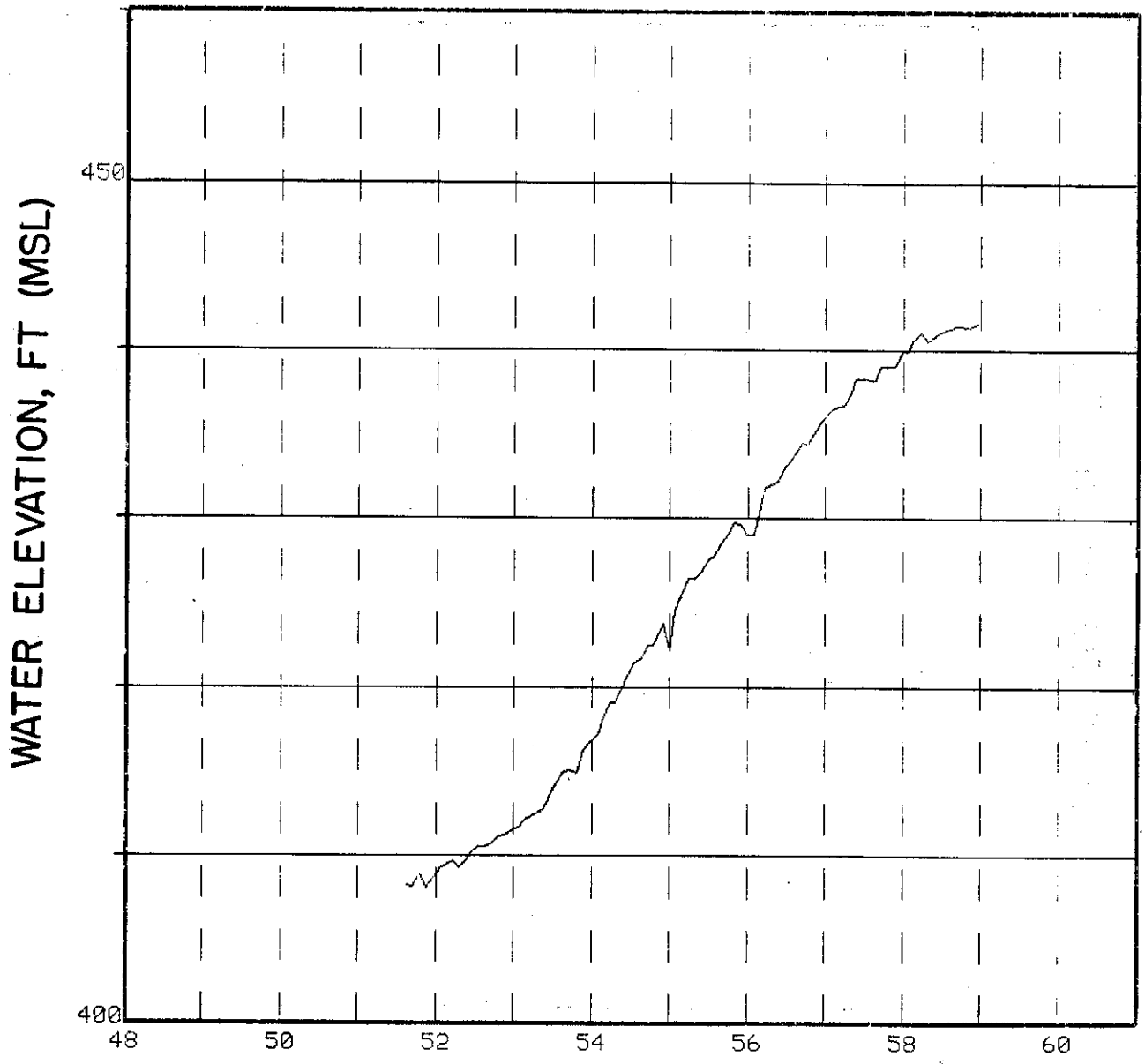
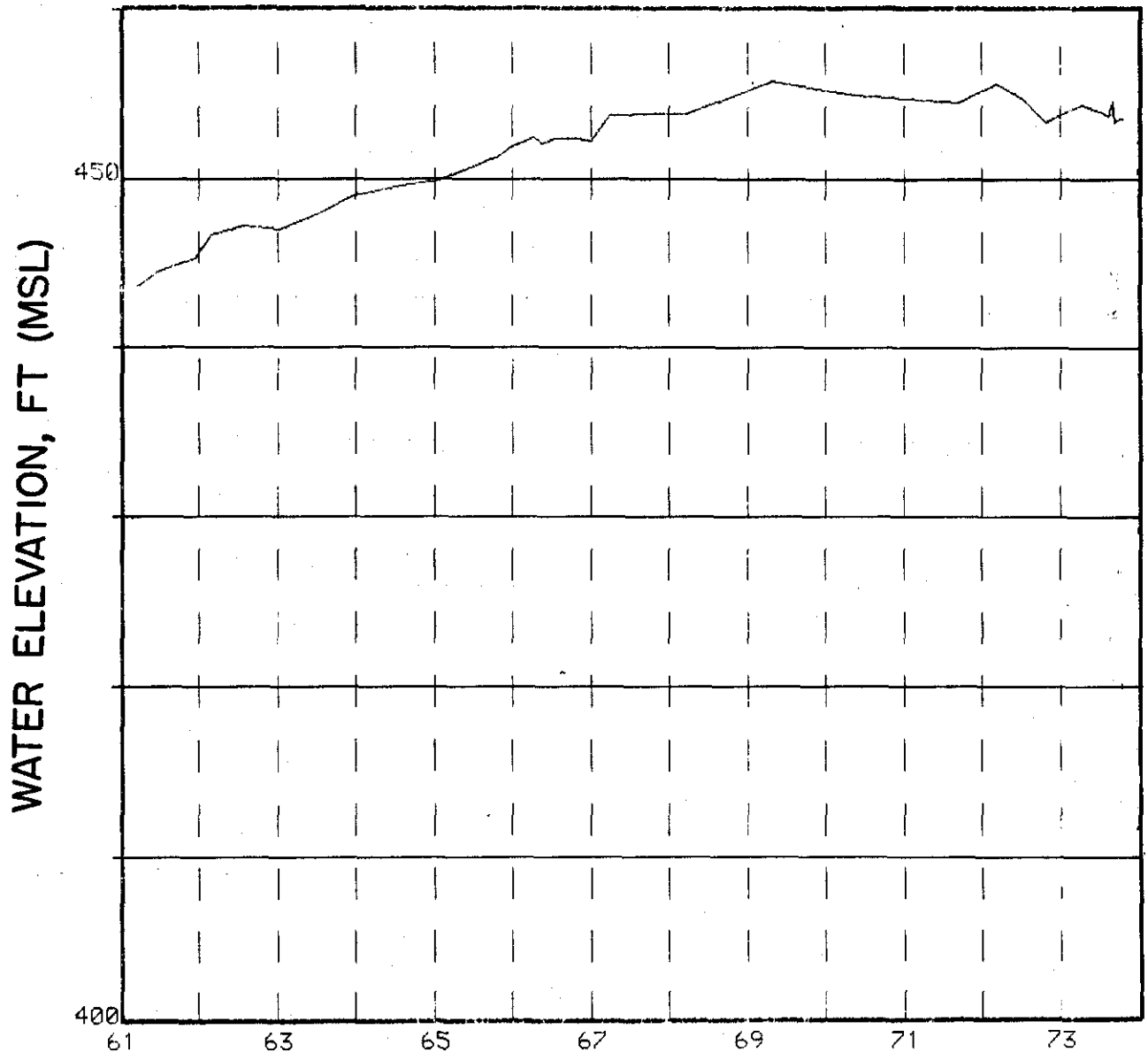


WELL NUMBER 699 35 70

CASING ELEVATION = 693.72



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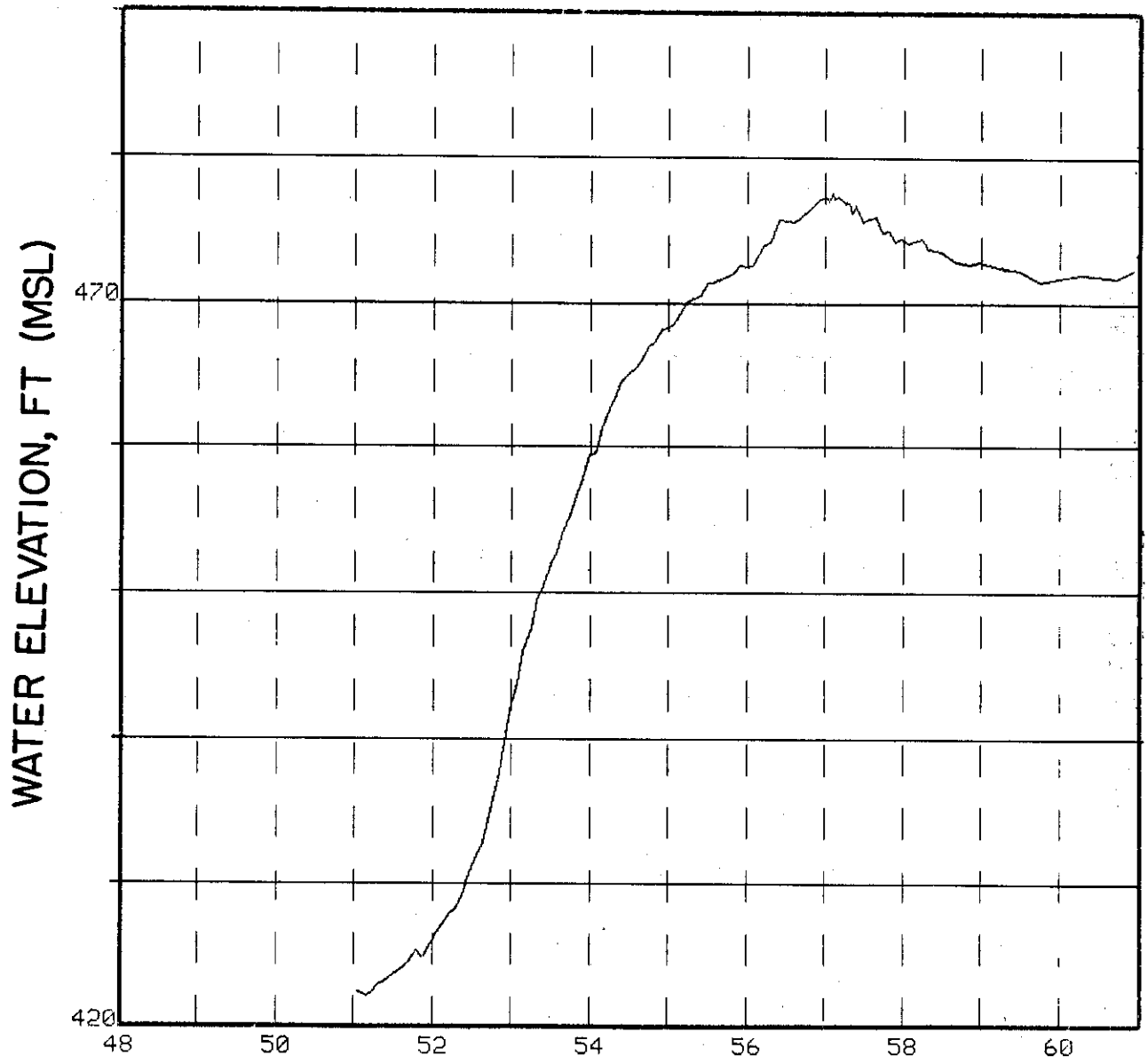

WELL NUMBER 699 35 78

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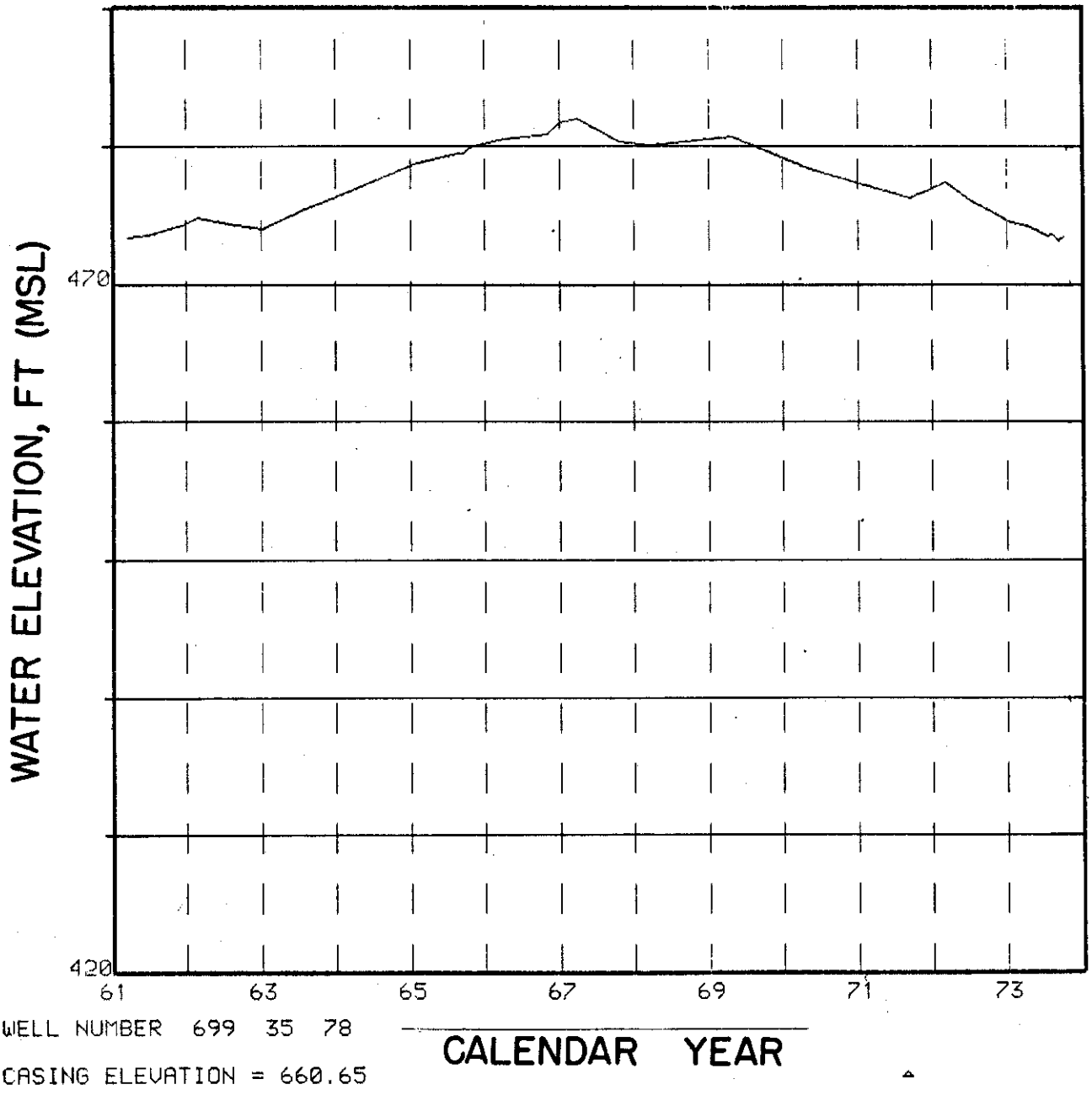

WELL NUMBER 699 35 78

CASING ELEVATION = 660.65

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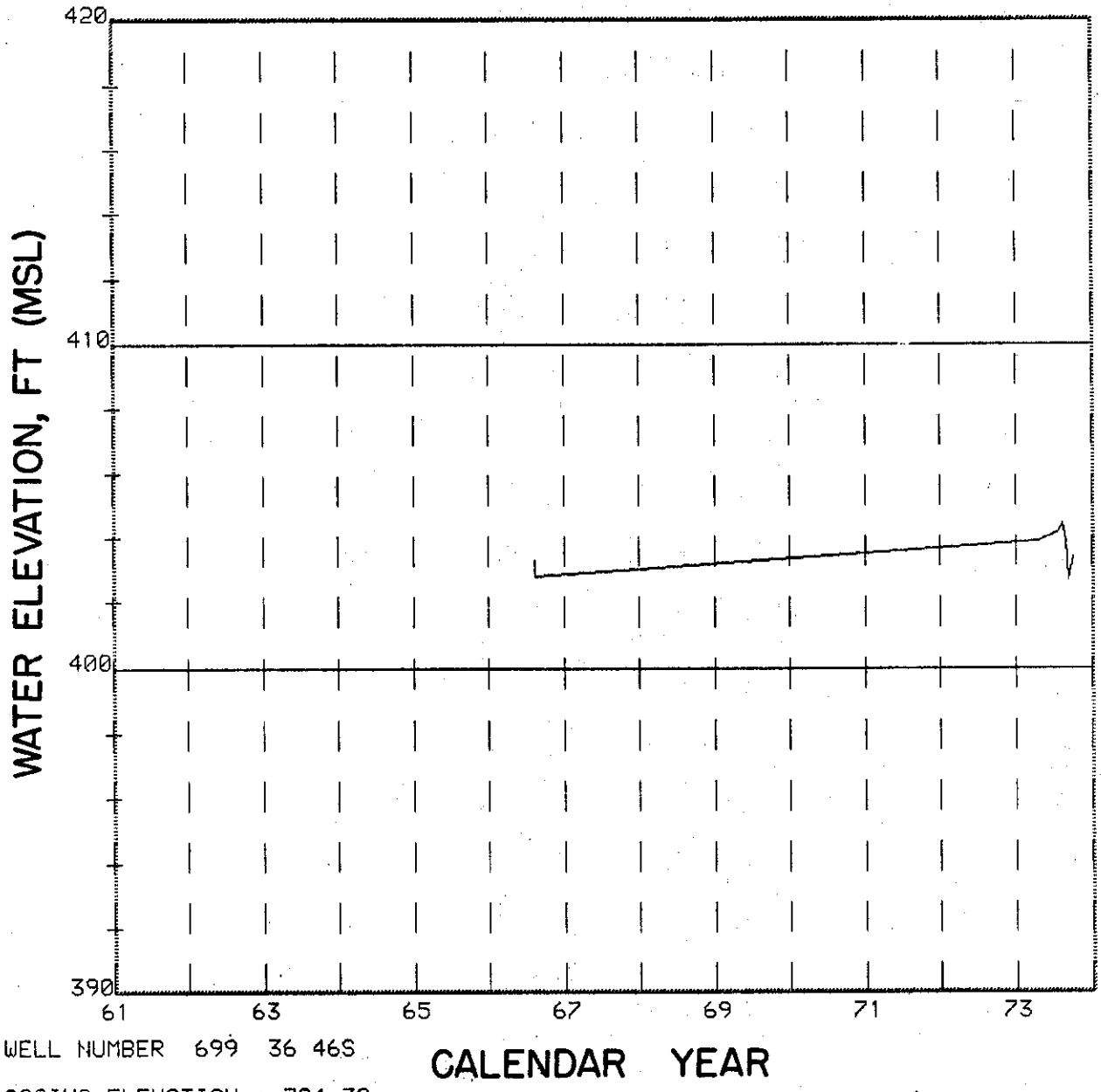

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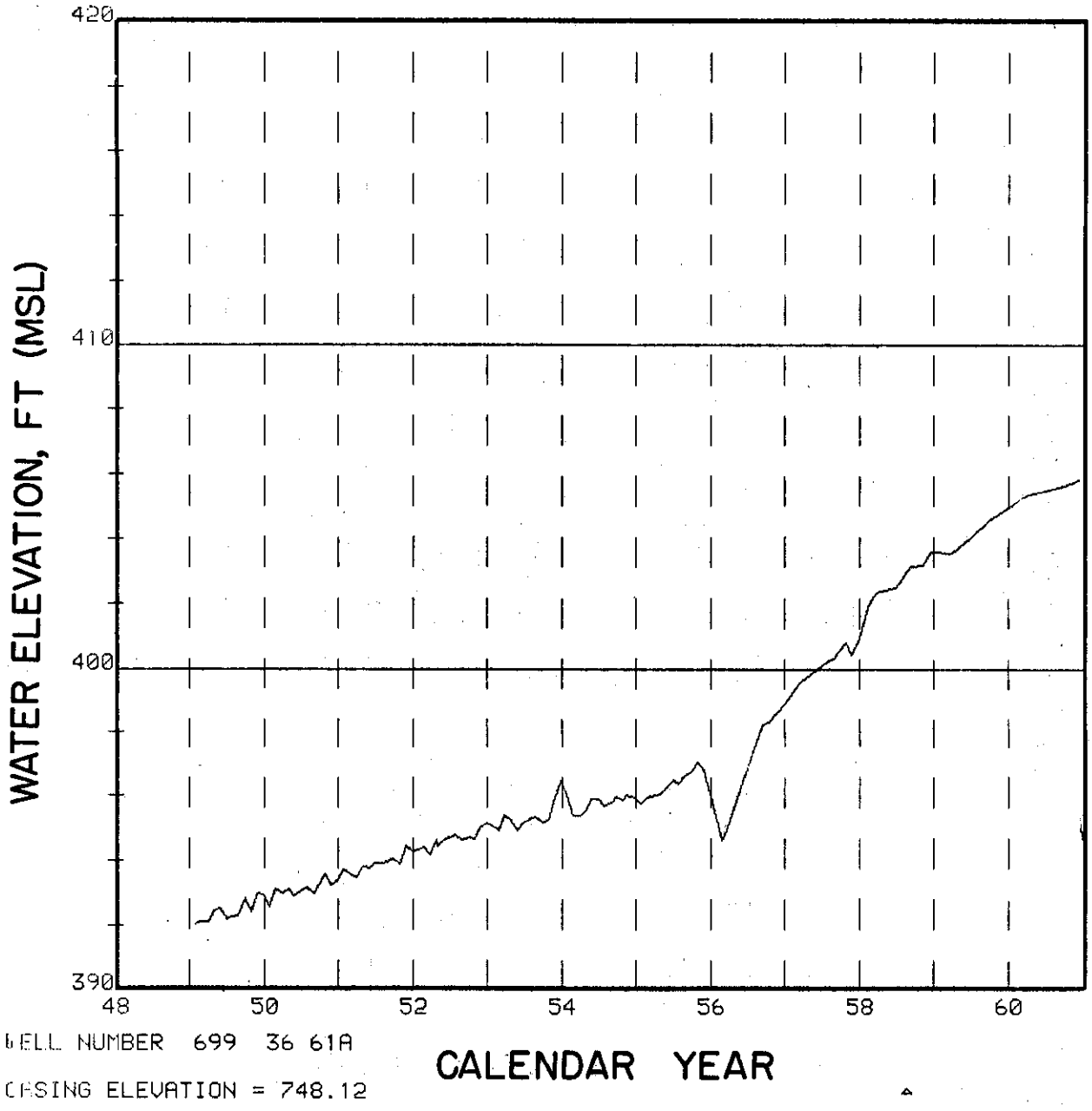
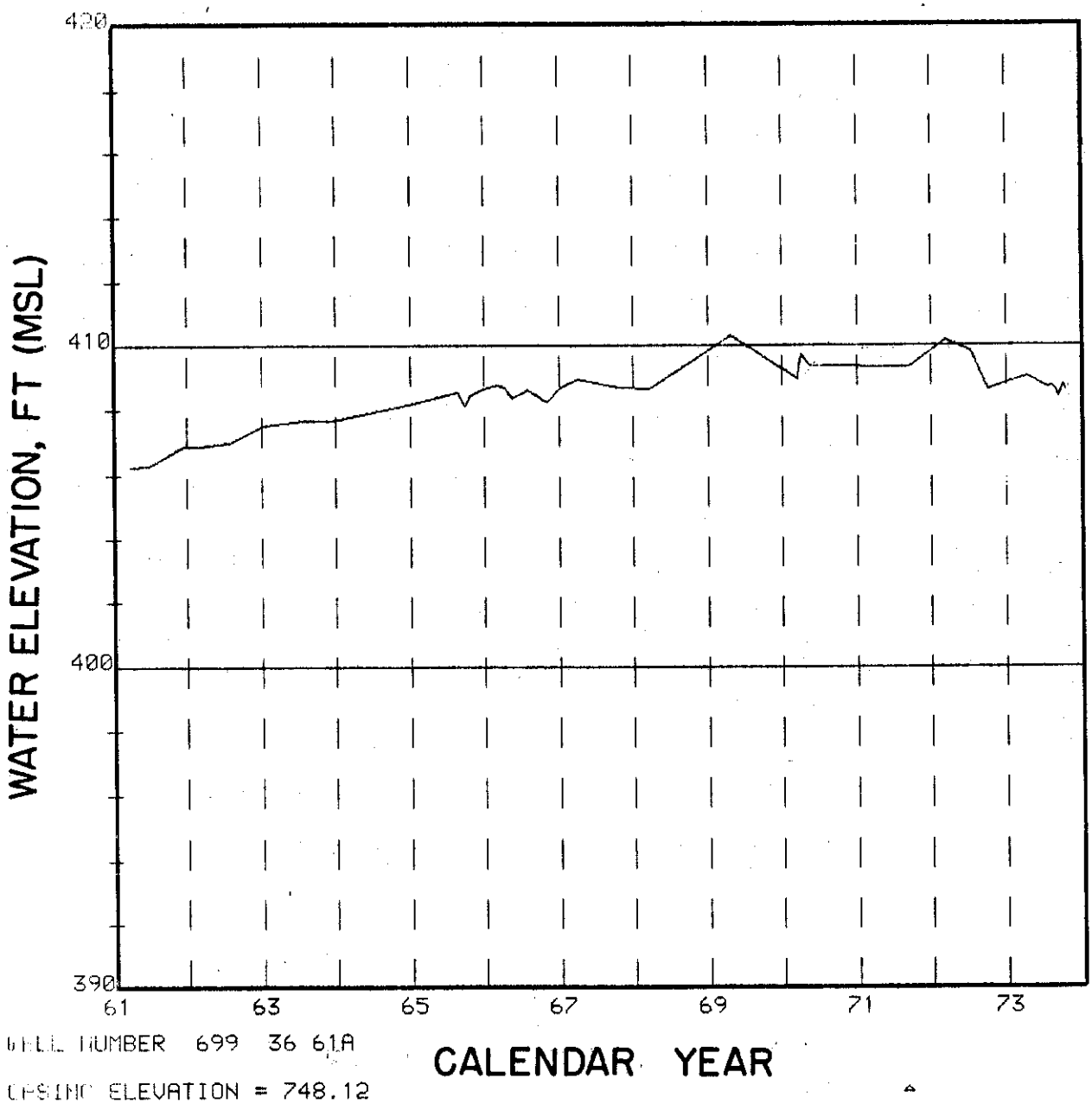


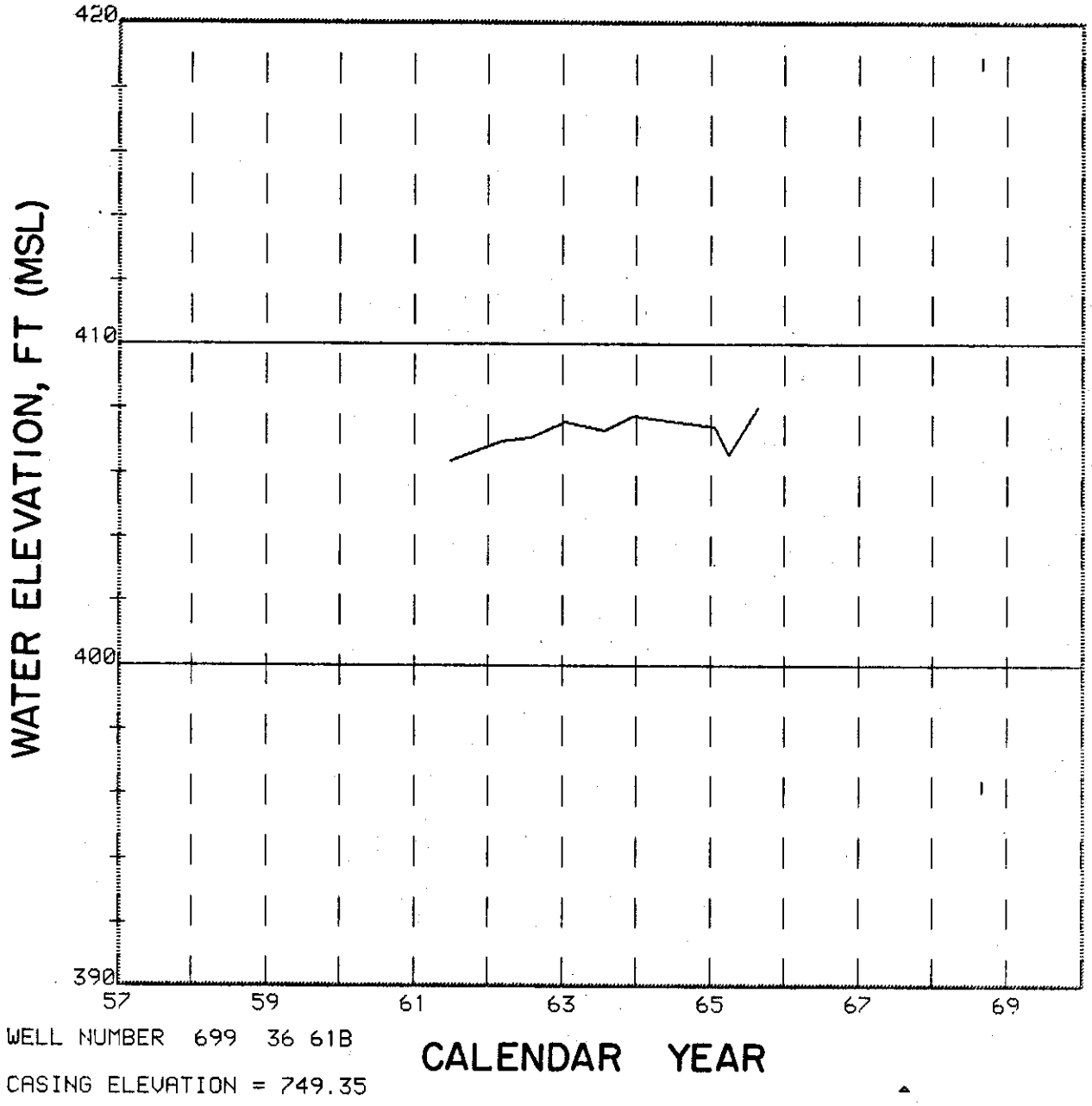
WELL NUMBER 699 36 61A

CASING ELEVATION = 748.12



WELL NUMBER 699 36 61A

CASING ELEVATION = 748.12



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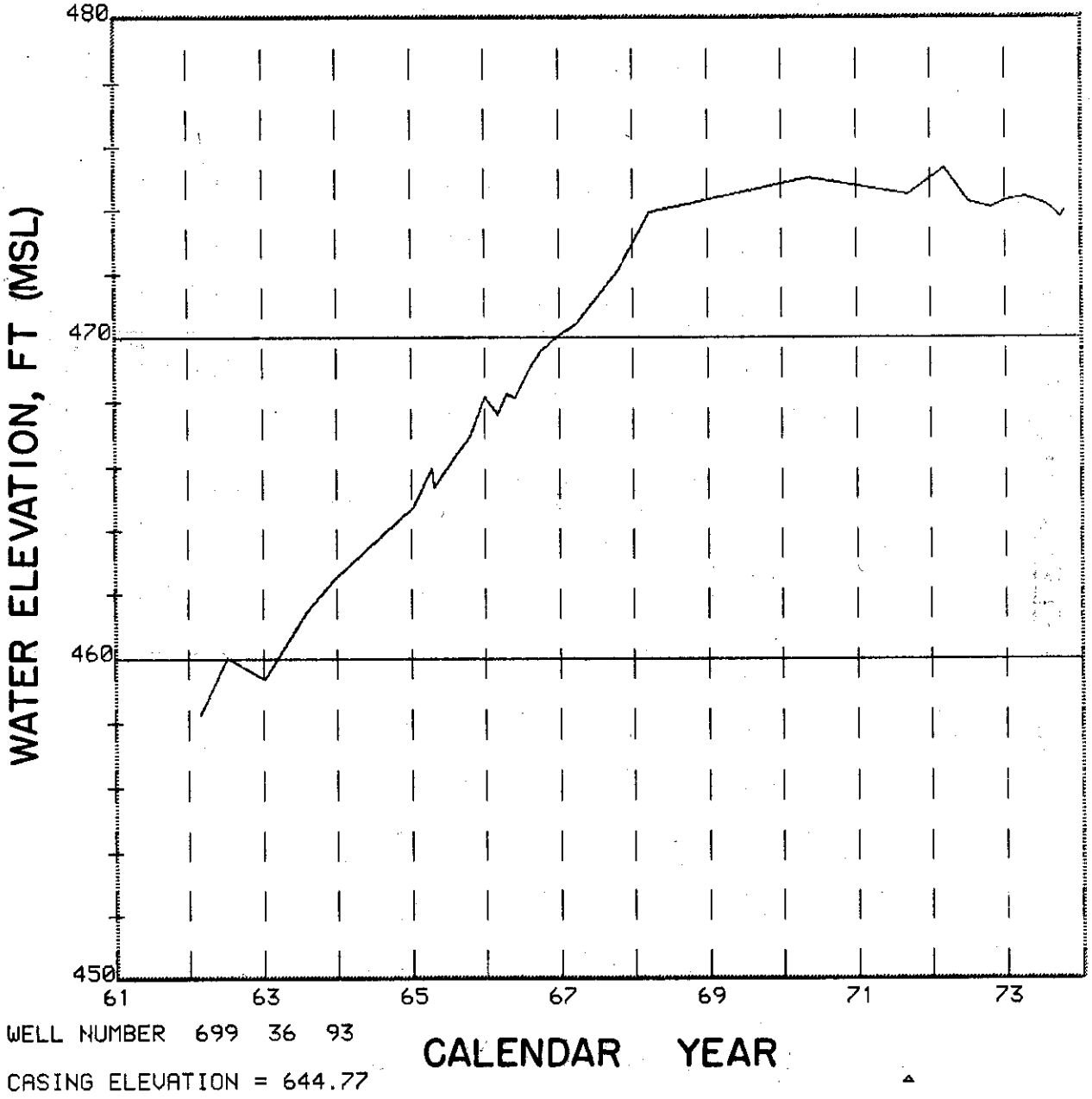

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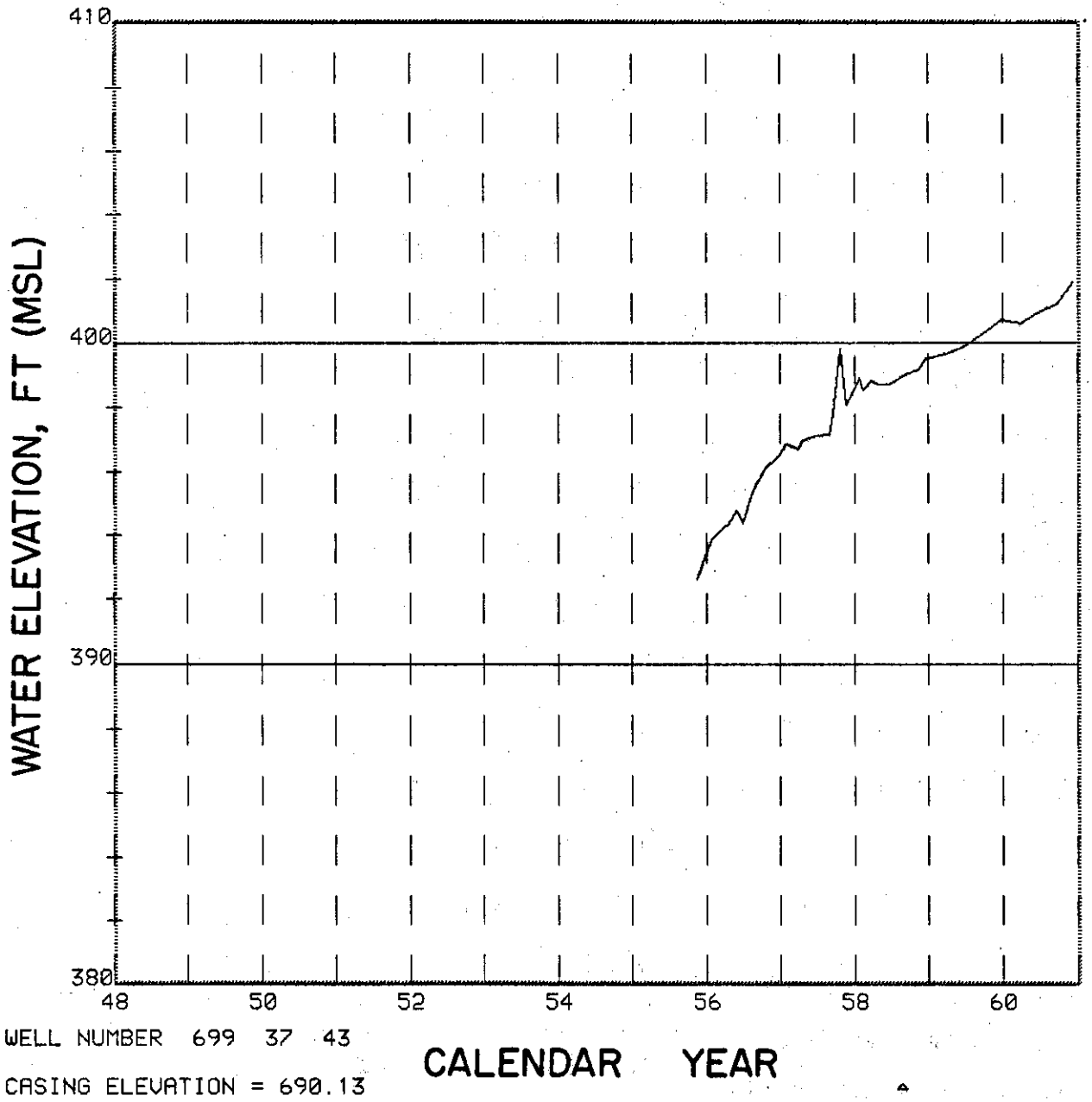

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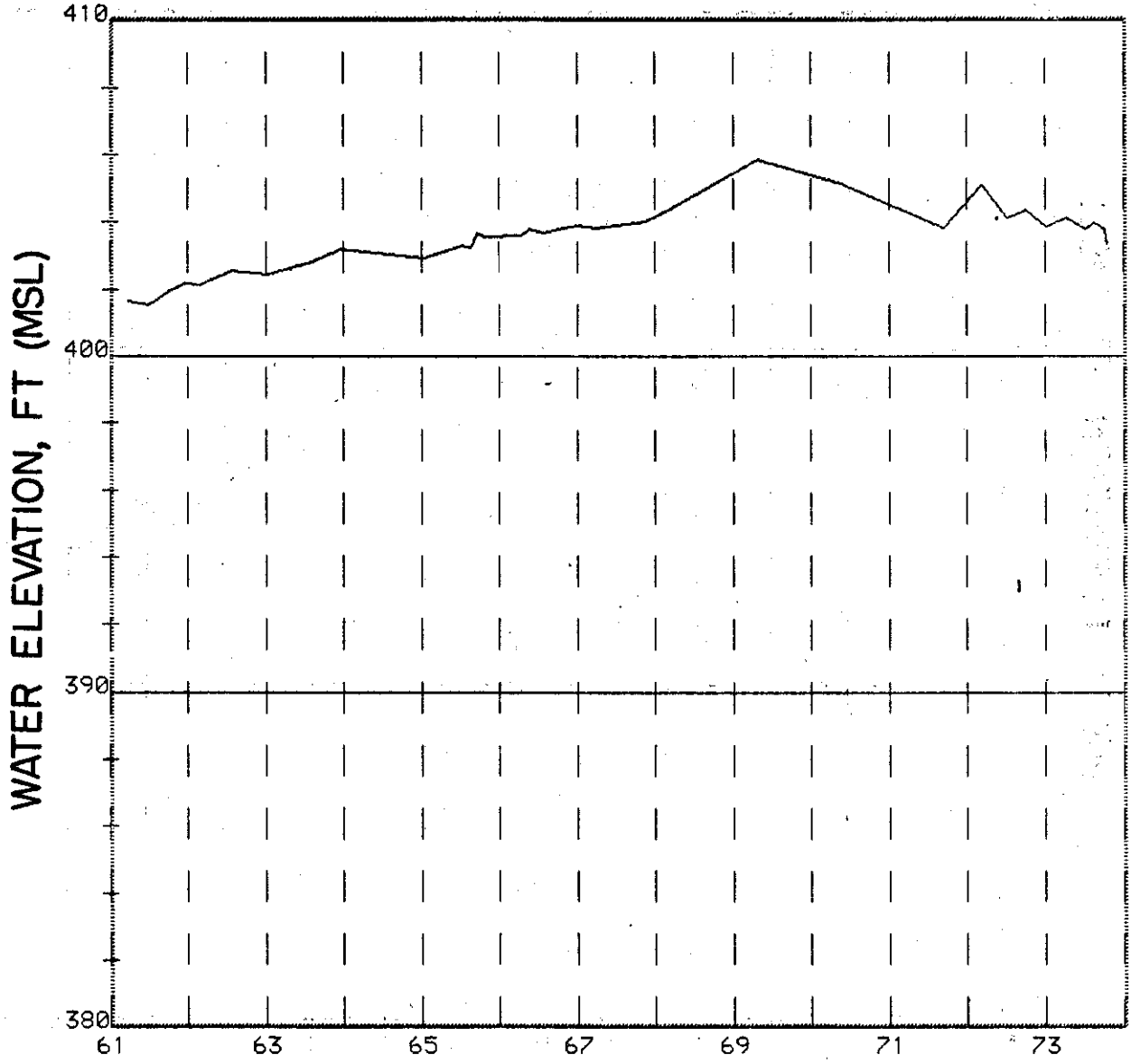

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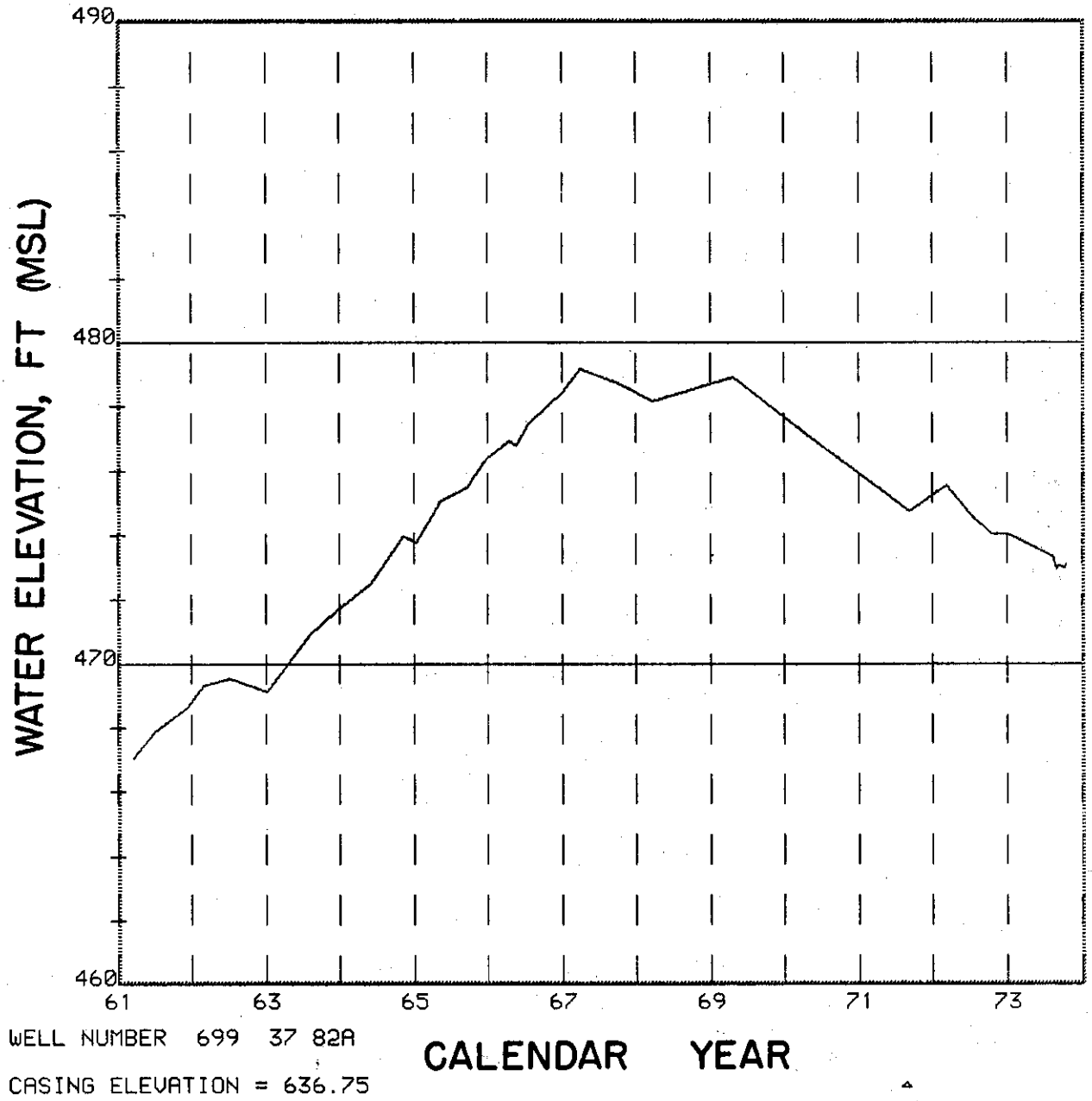

WELL NUMBER 699 37 82A

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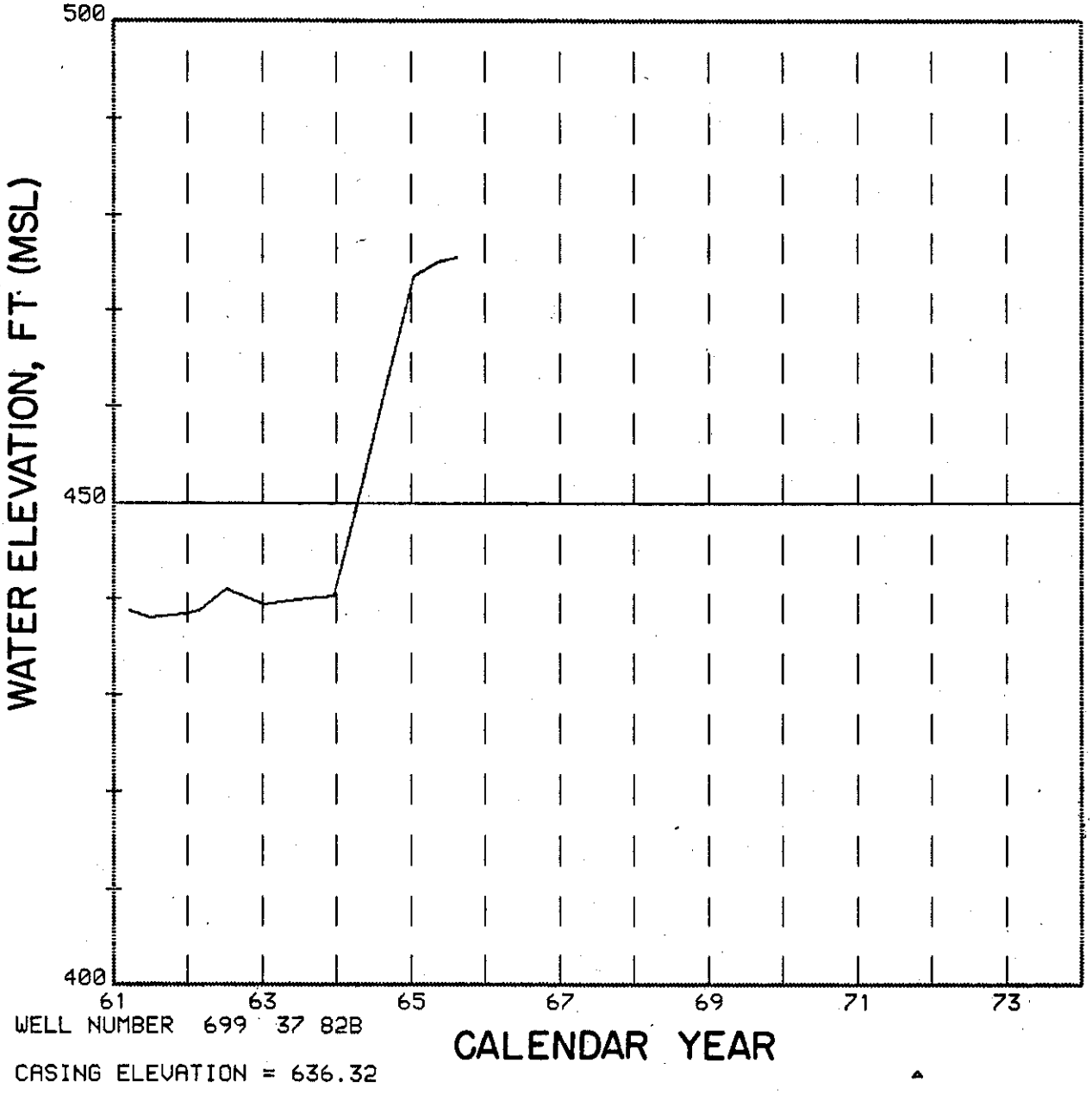
500
450
400
WATER ELEVATION, FT (MSL)
61
63
65
67
69
71
73
CALENDAR YEAR
WELL NUMBER 699 37 82B
CASING ELEVATION = 636.32

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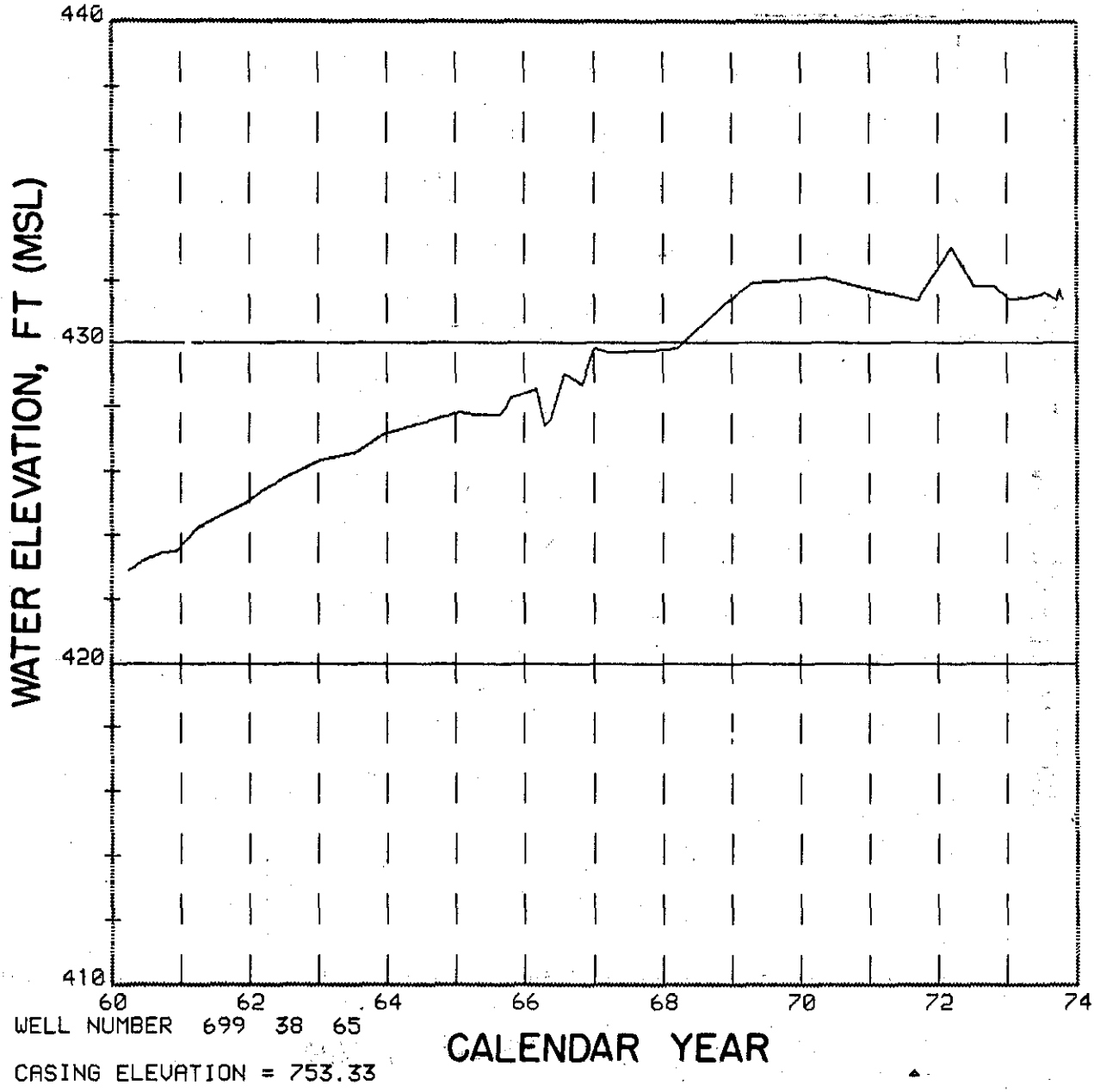
440
430
420
410
WATER ELEVATION, FT (MSL)
60
62
64
66
68
70
72
74
CALENDAR YEAR
WELL NUMBER 699 38 65
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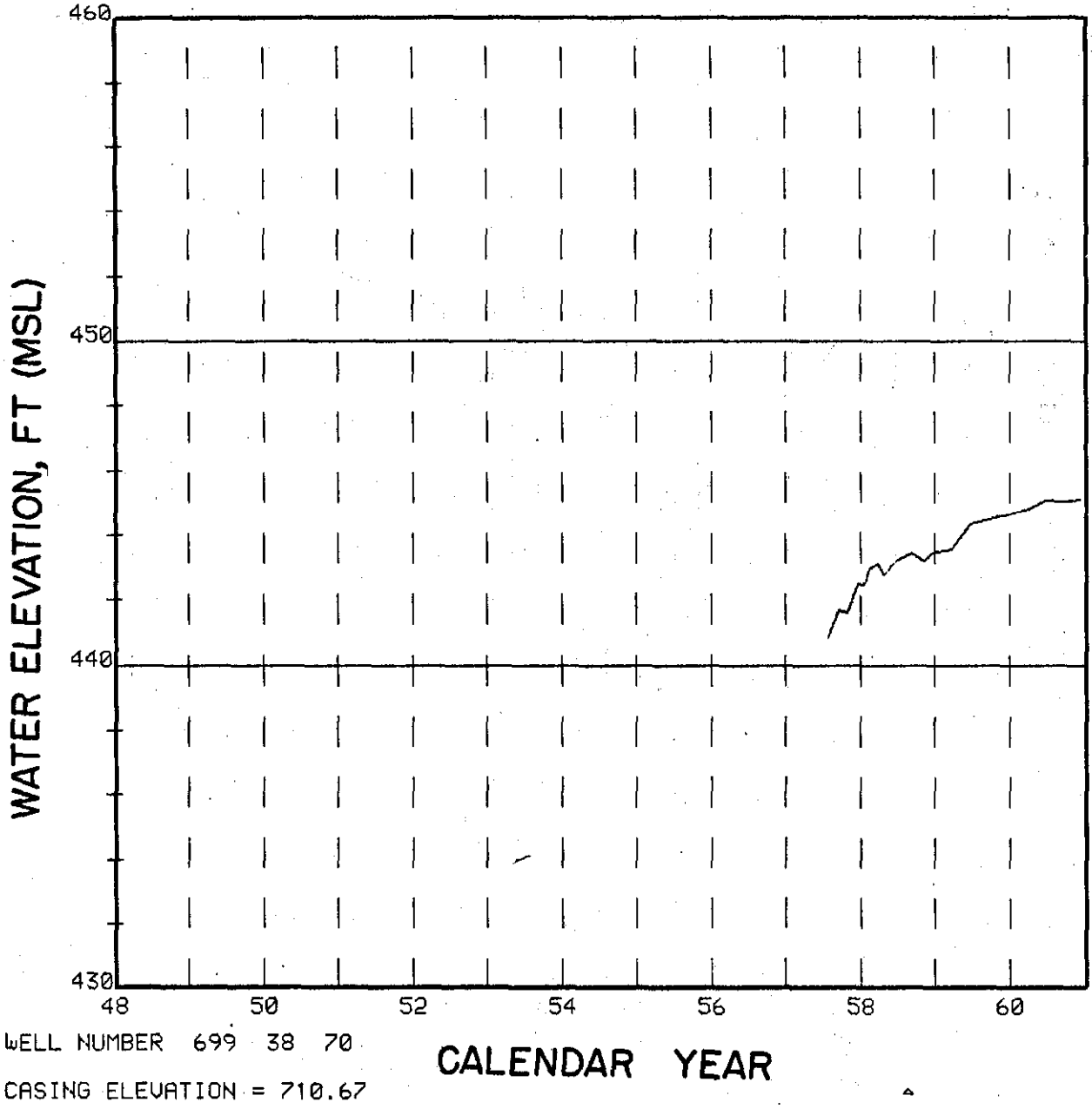

WELL NUMBER 699 38 70

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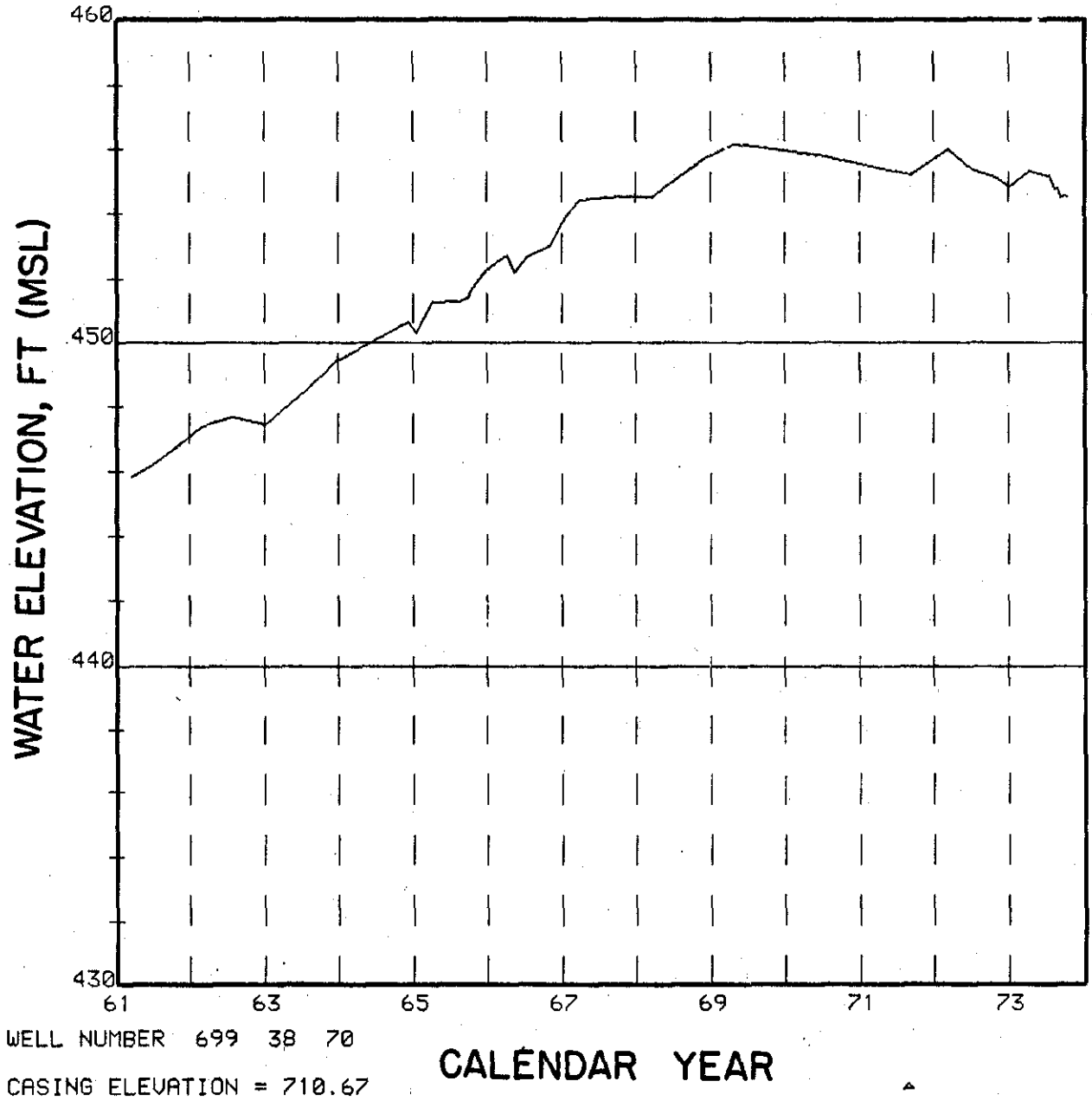

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CASING ELEVATION = 710.67

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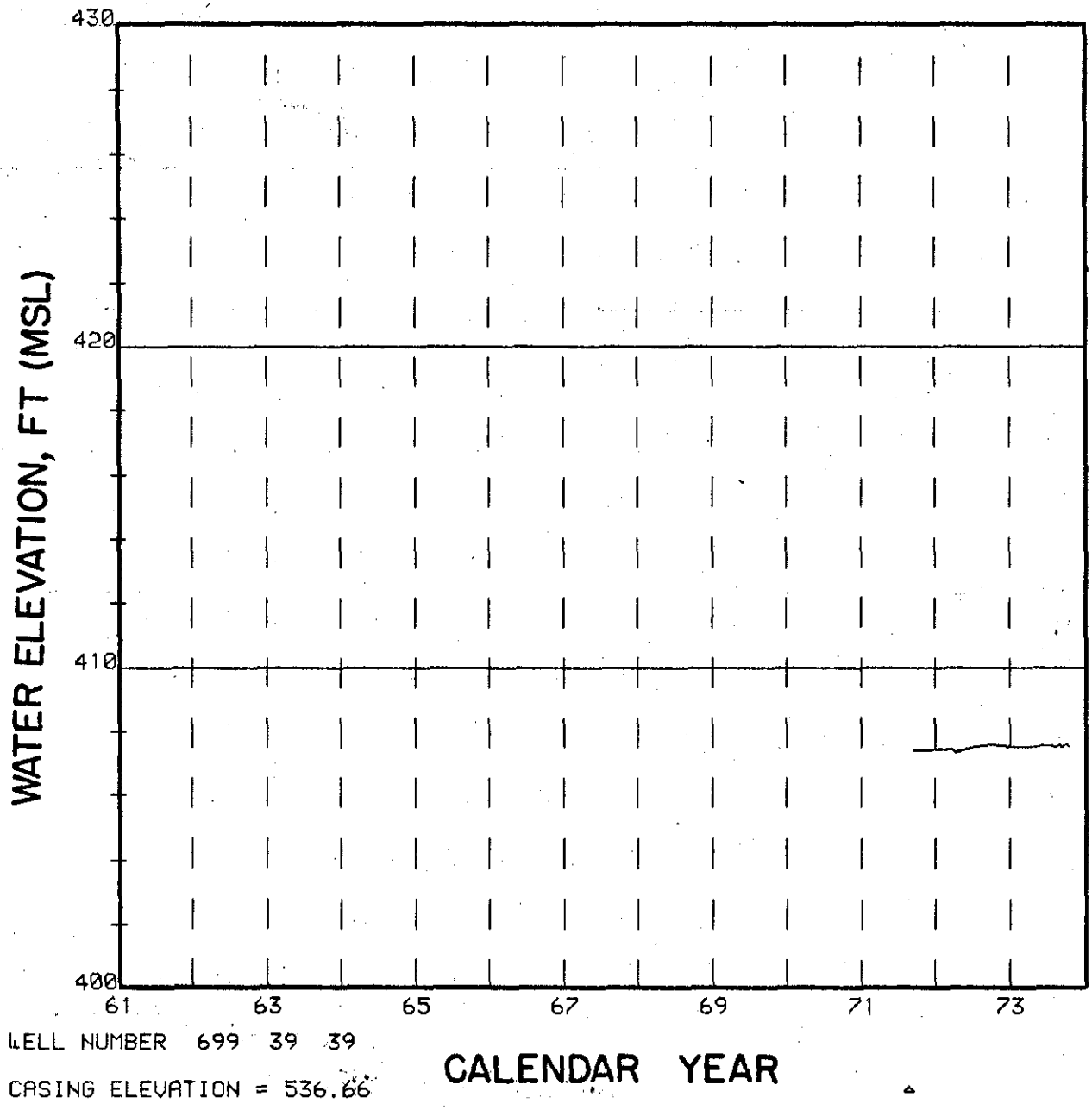

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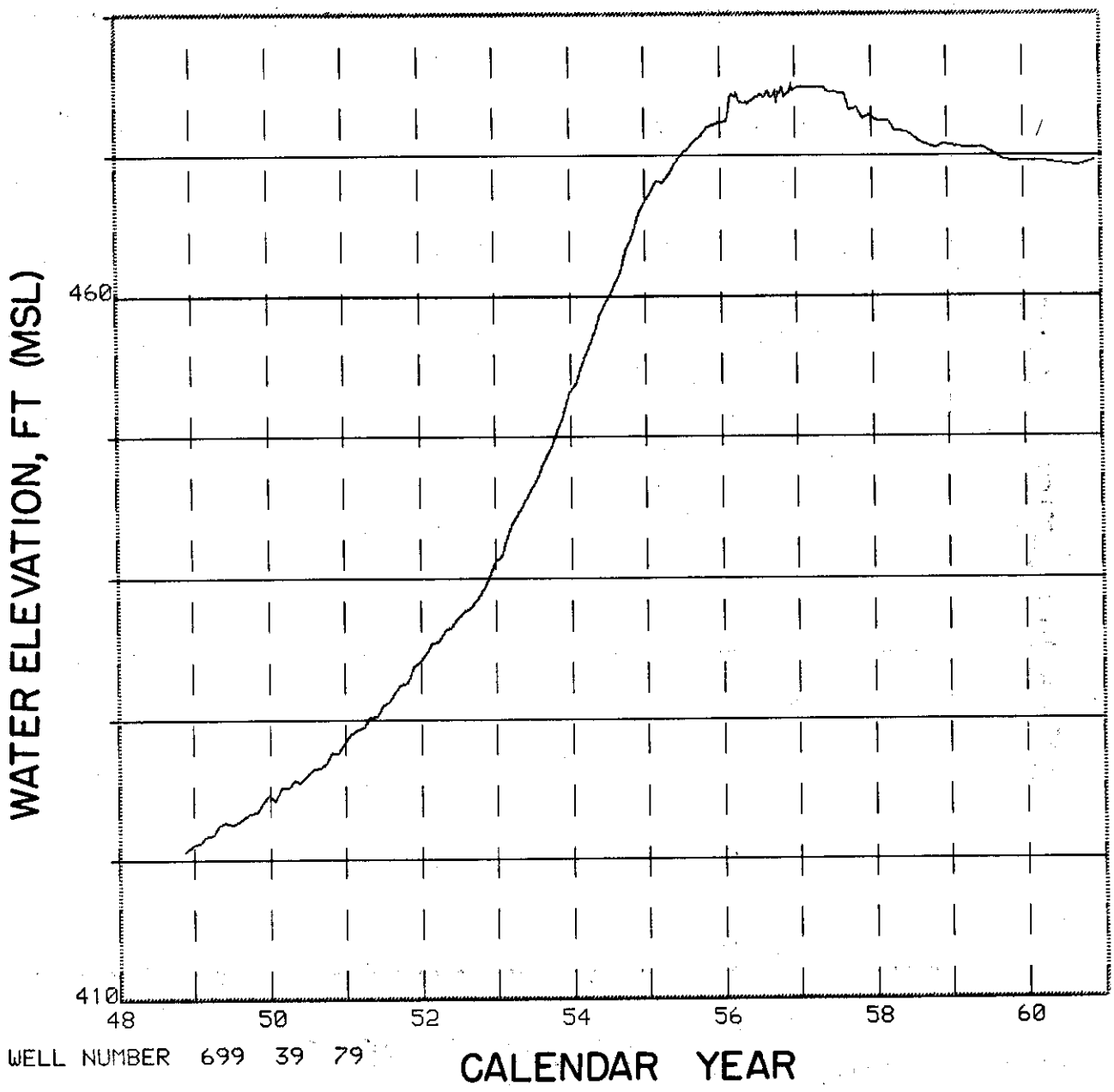

WELL NUMBER 699 39 79

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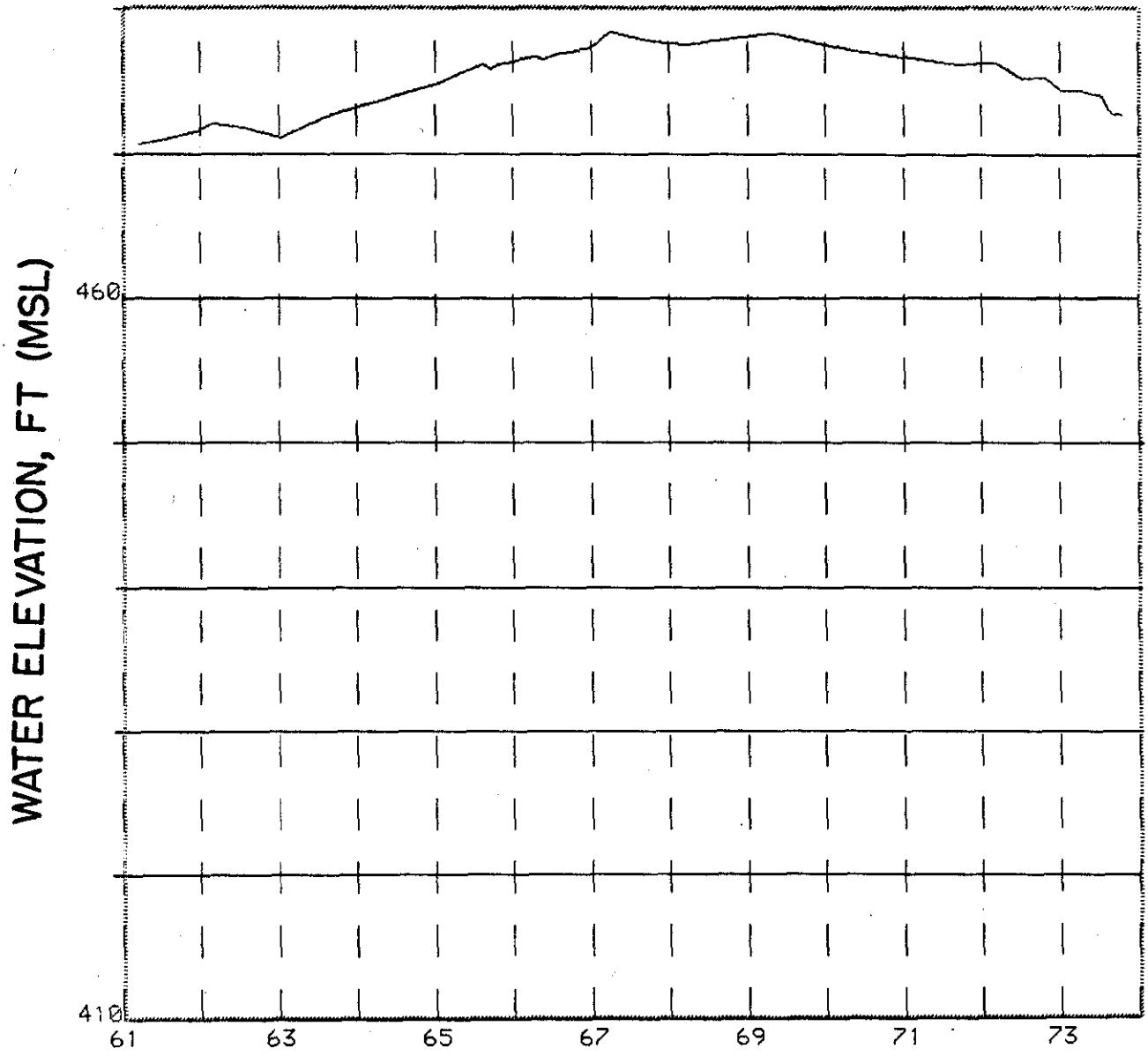

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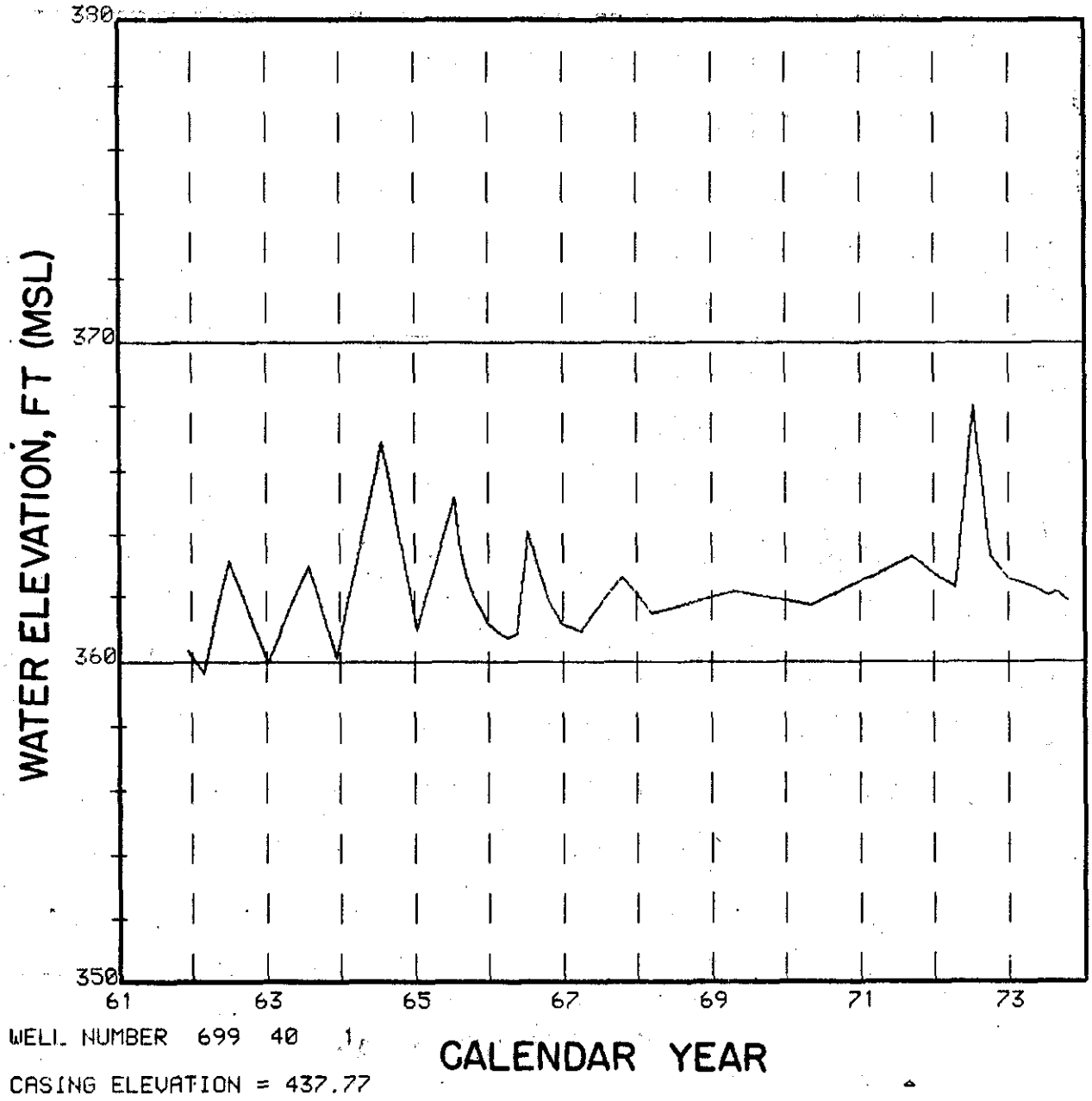

WELL NUMBER 699 40 1

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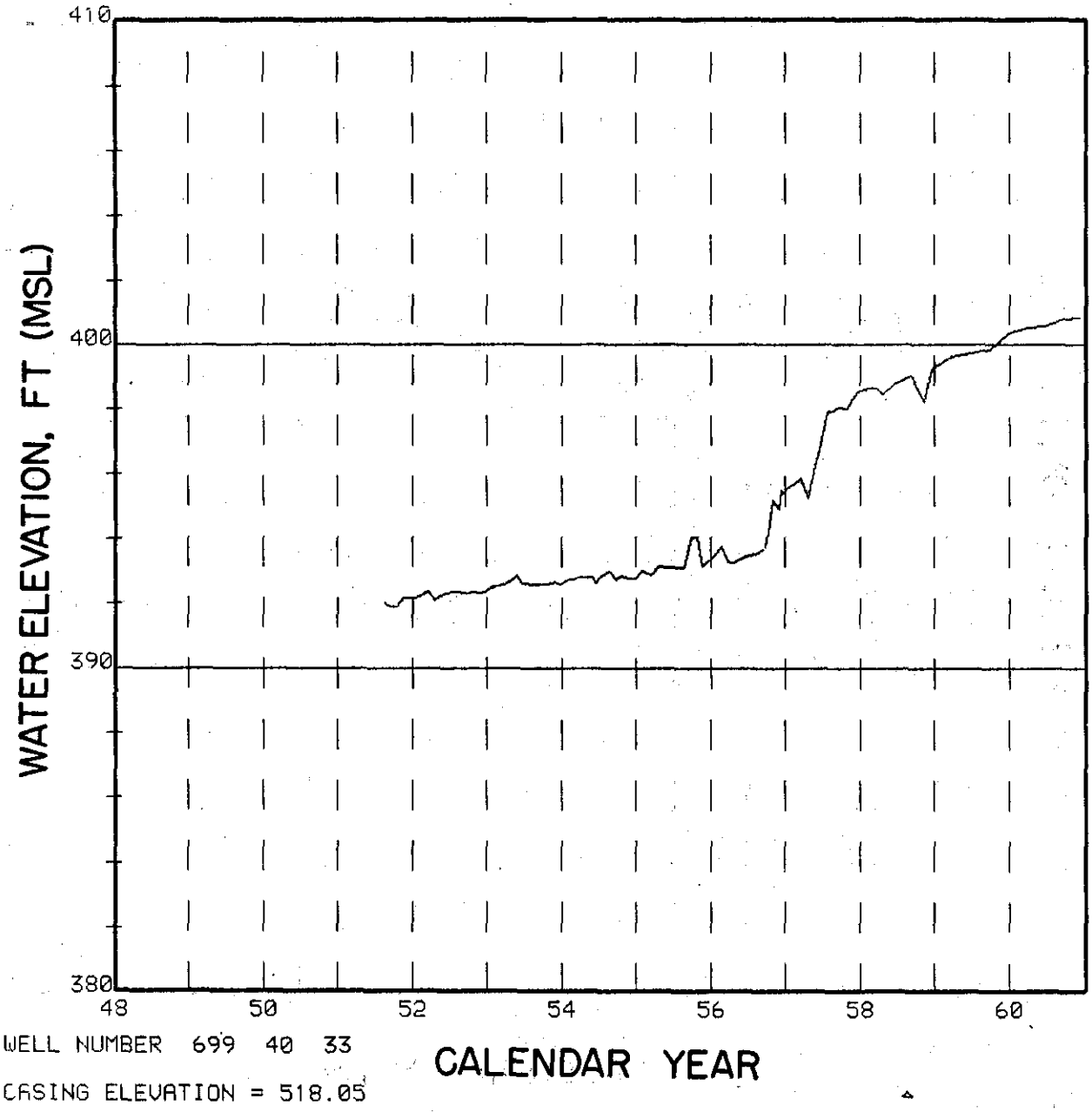

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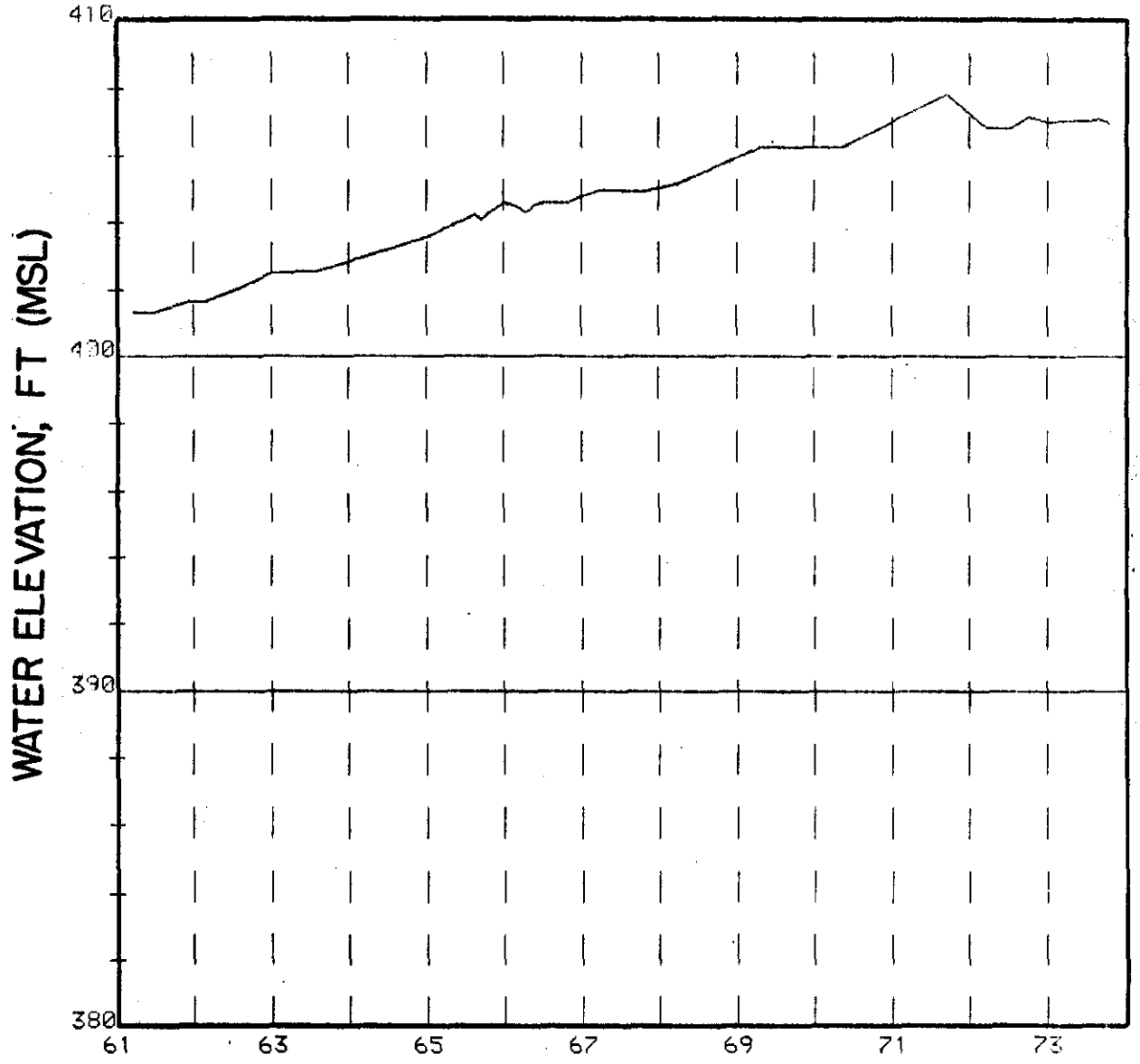

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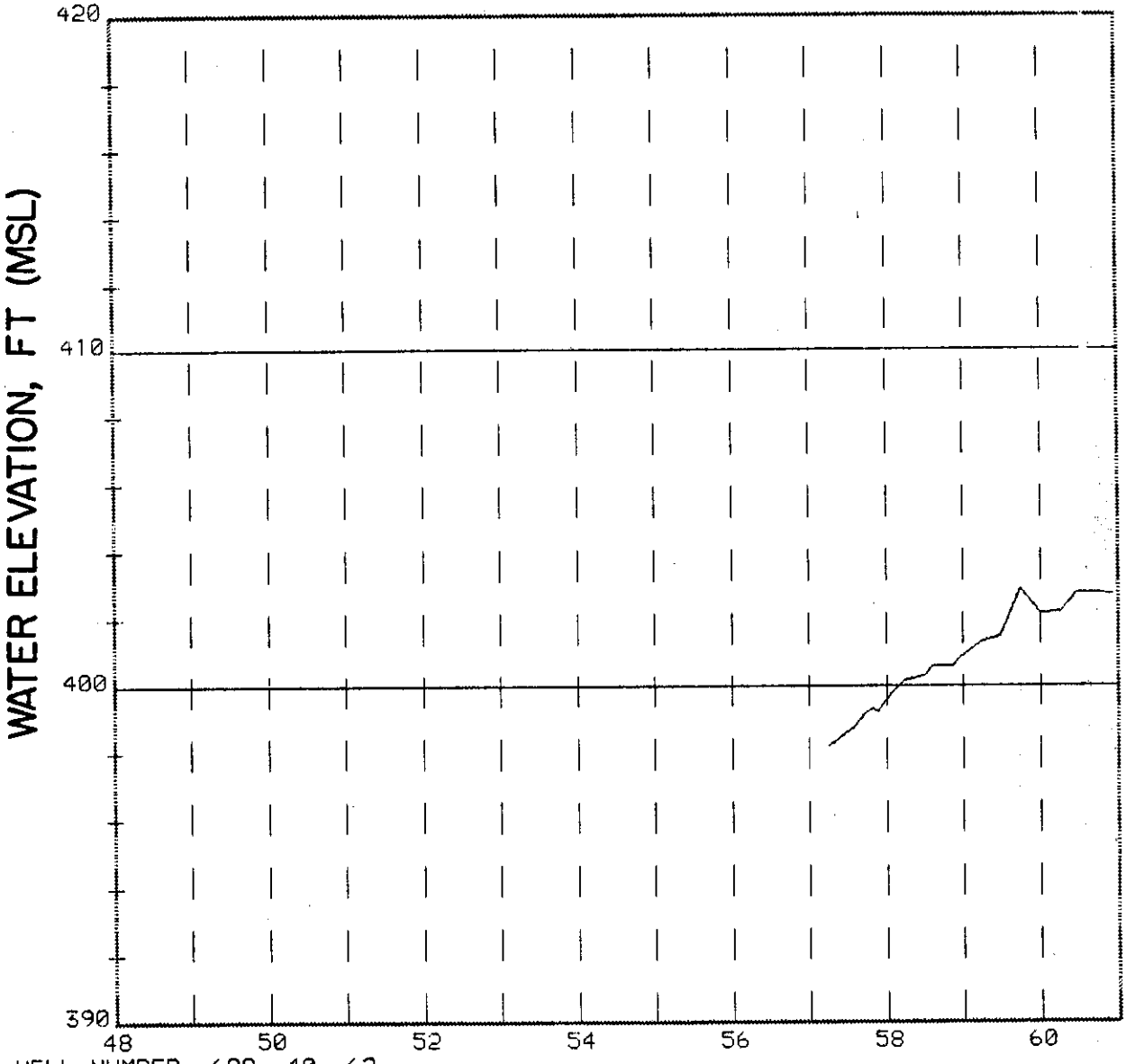
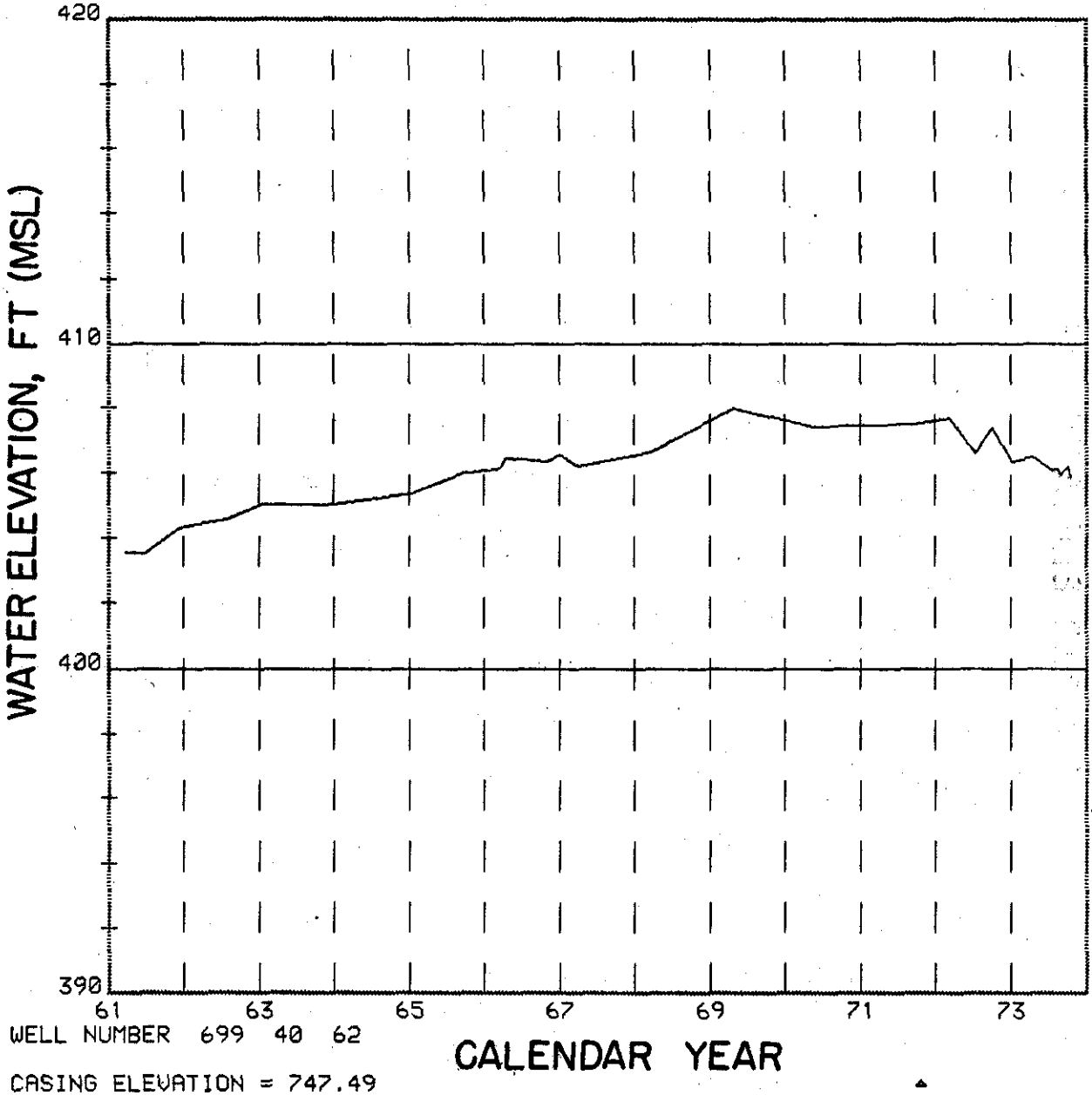
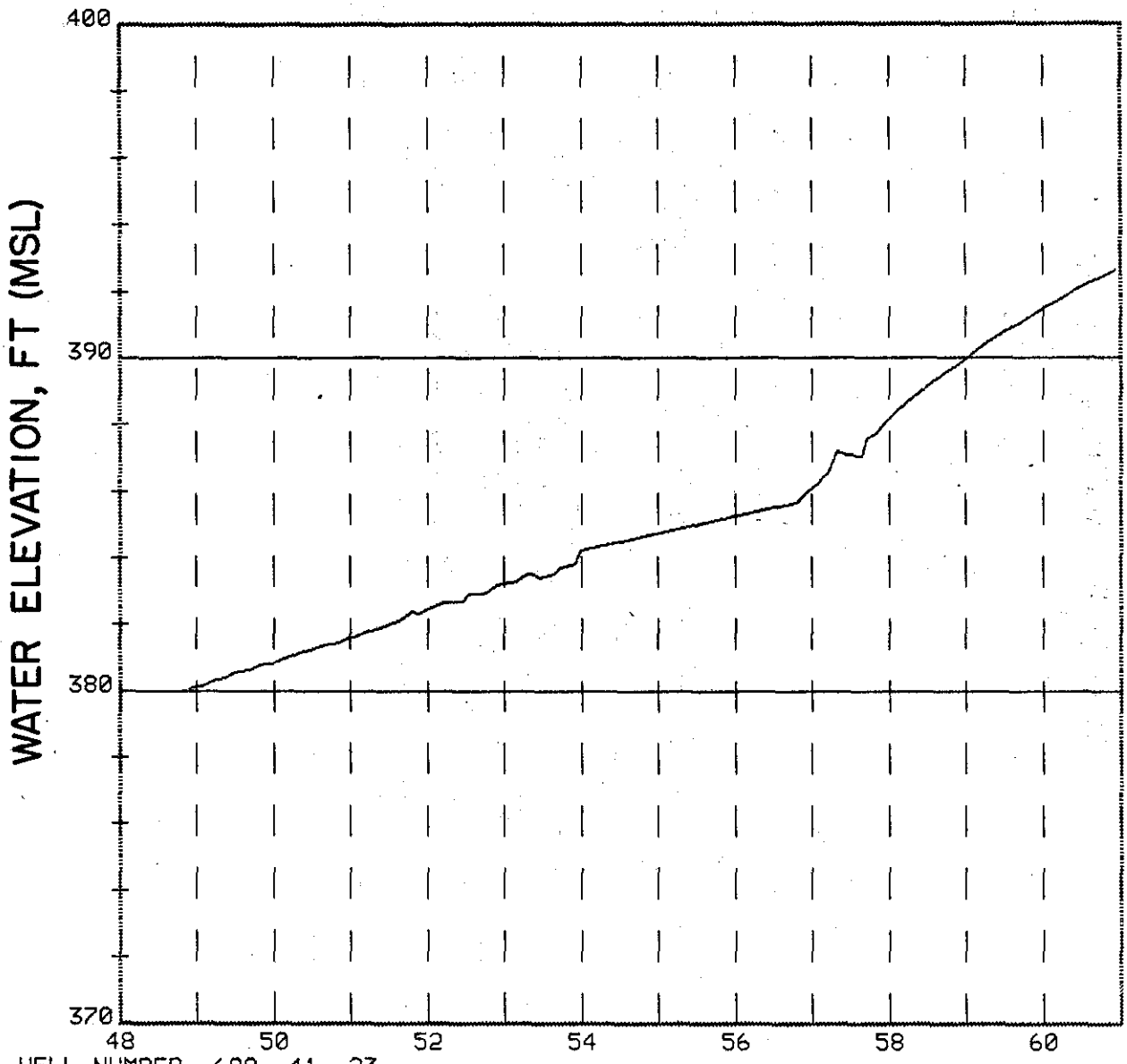


WELL NUMBER 699 40 62

CASING ELEVATION = 747.49


420
410
400
390
WATER ELEVATION, FT (MSL)
61
63
65
67
69
71
73
CALENDAR YEAR
WELL NUMBER 699 40 62
CASING ELEVATION = 747.49



WELL NUMBER 699 41 23

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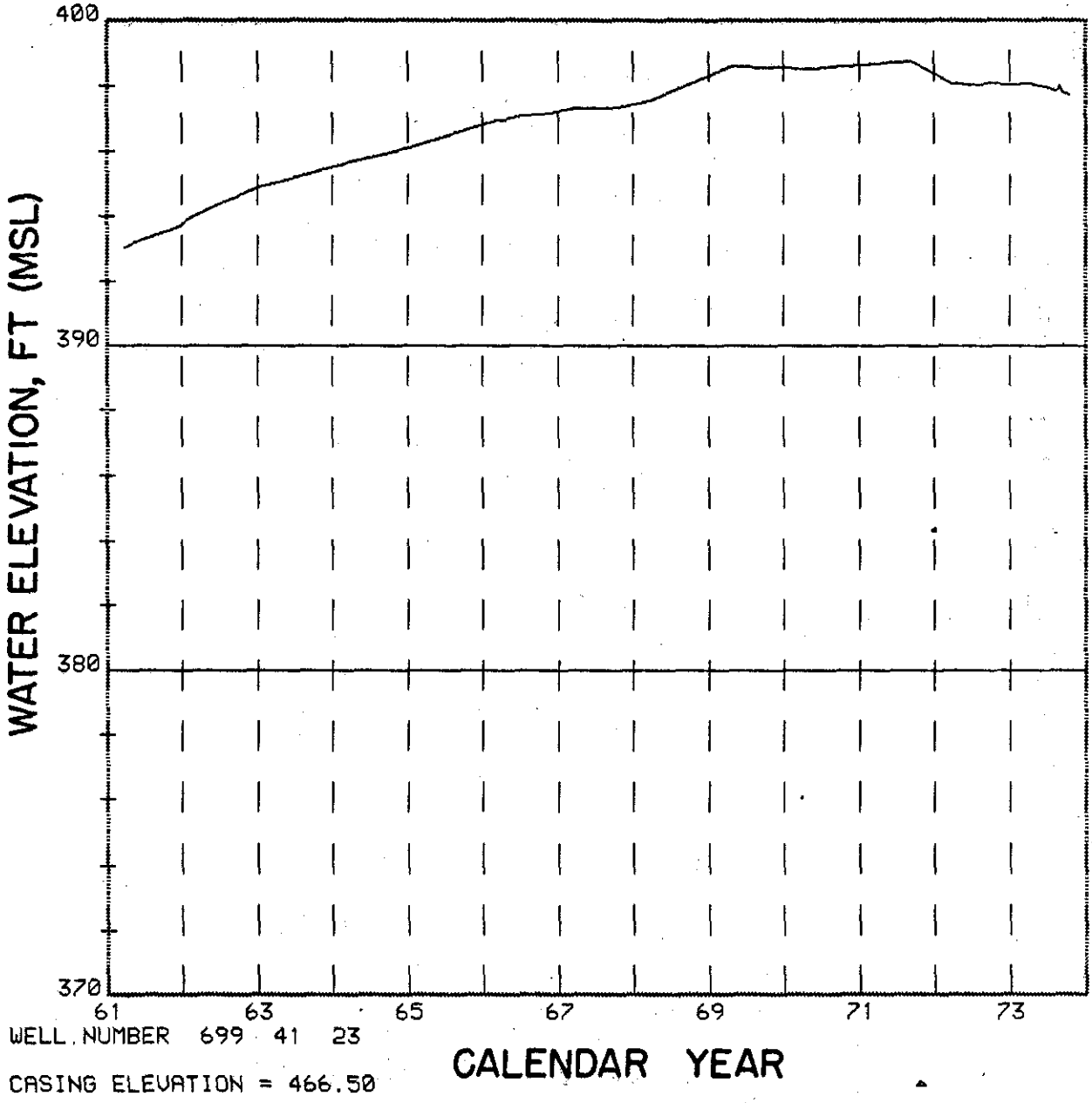

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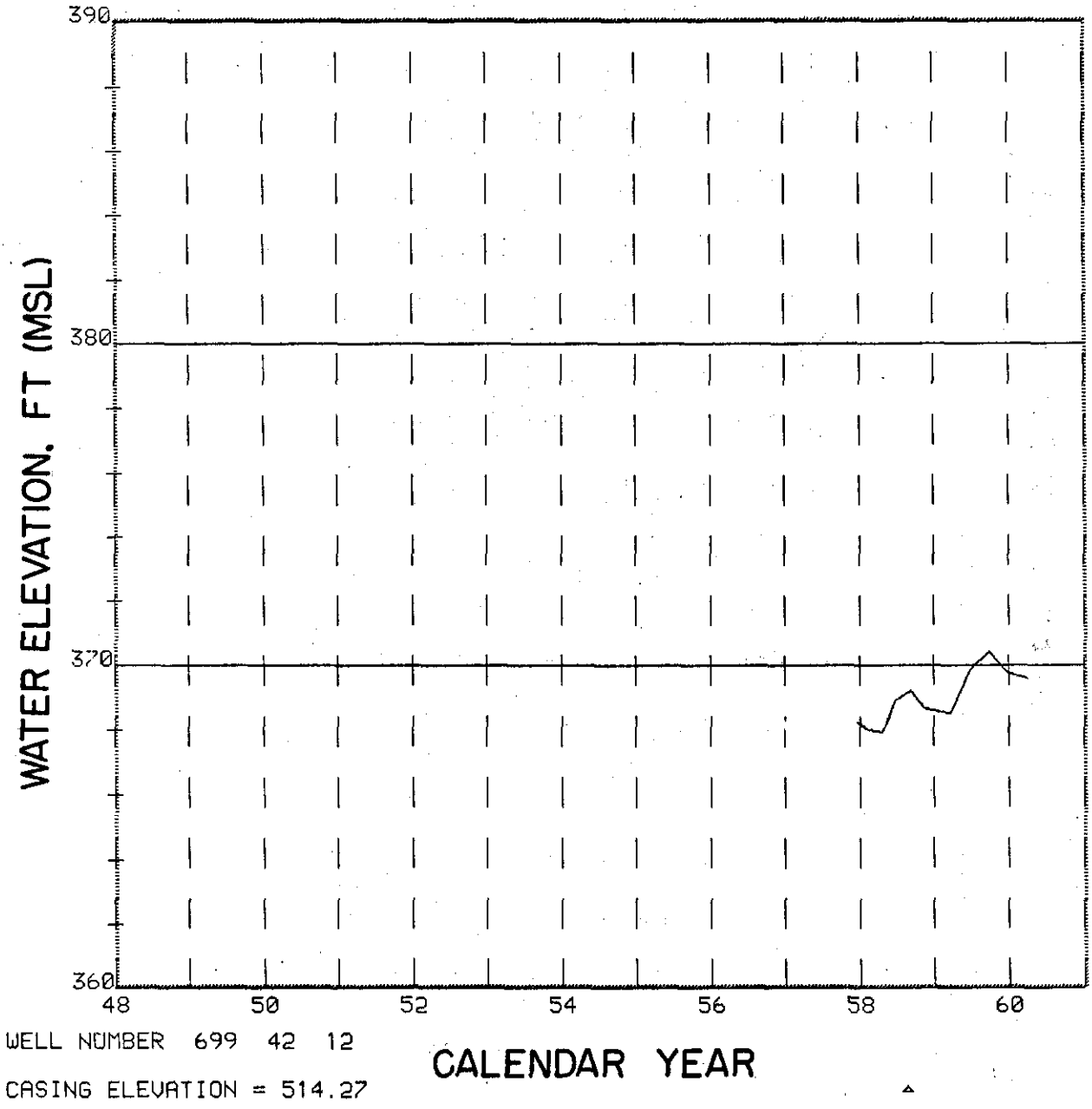


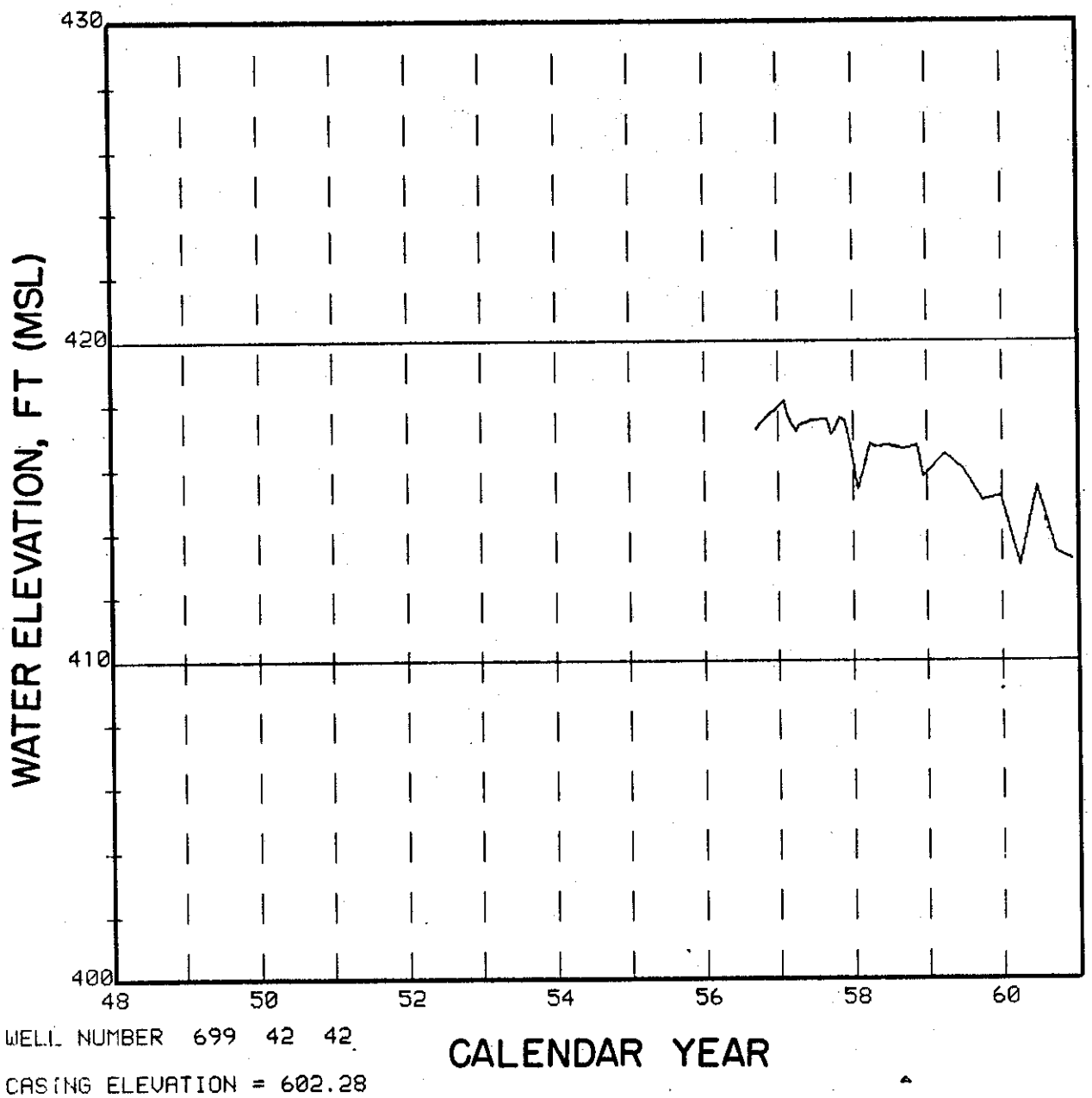
WELL NUMBER 699 42 12

CASING ELEVATION = 514.27

This document was too large to scan as a single document; therefore, it has been divided into smaller sections.

Section 3 of 3

Document Information			
Document #	BNWL-B-360	Revision	
Title	Selected Water Table Contour Maps + Well Hydrographs for the Hanford Reservation, 1944-1973		
Date	01/01/1974		
Originator	Kipp, KL Mudd, RD	Originator Co.	
Recipient		Recipient Co.	
References			
Keywords	Groundwater, Hanford Site, Environmental Effects		
Projects			
Other Information			



WELL NUMBER 699 42 42

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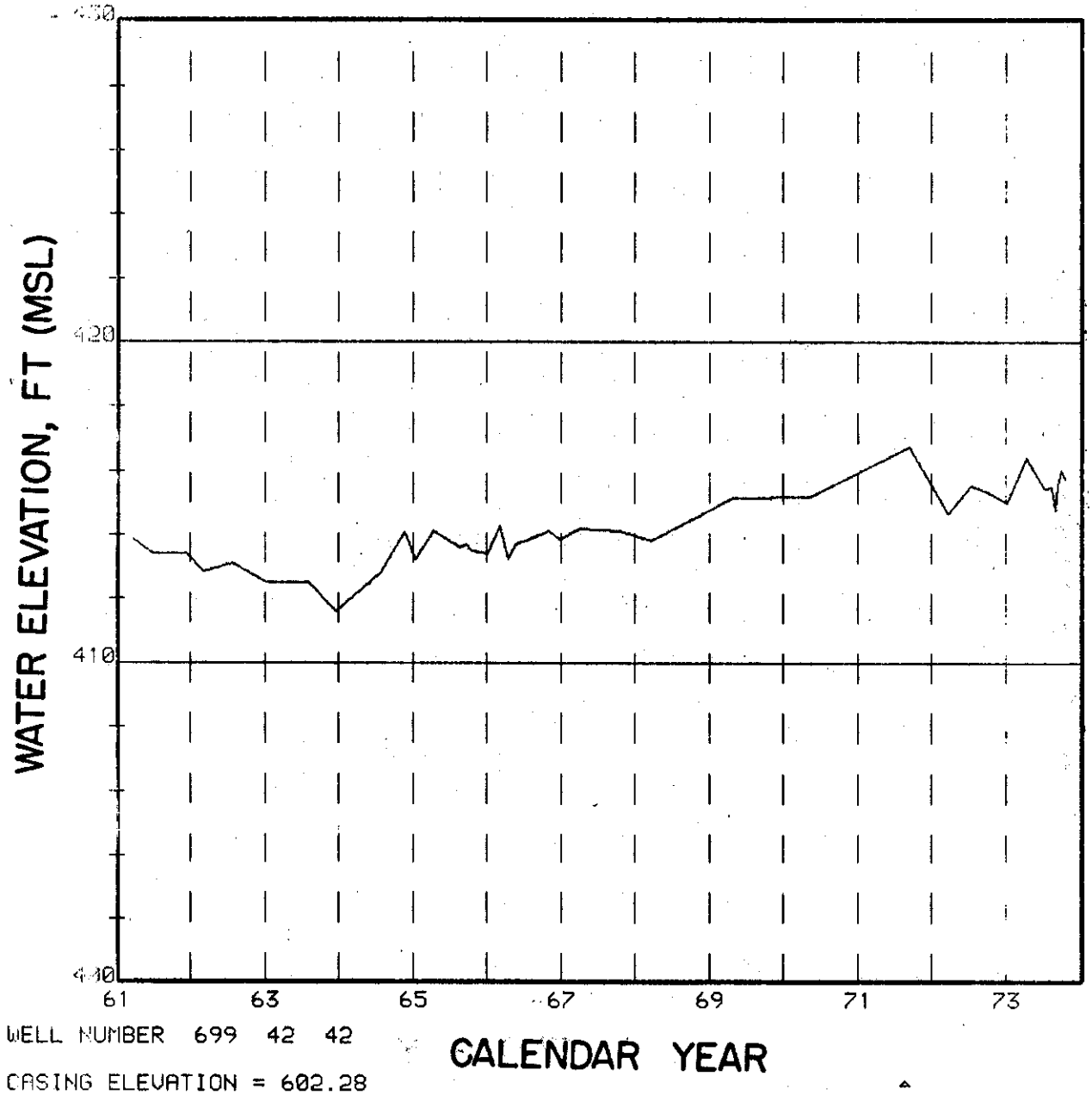

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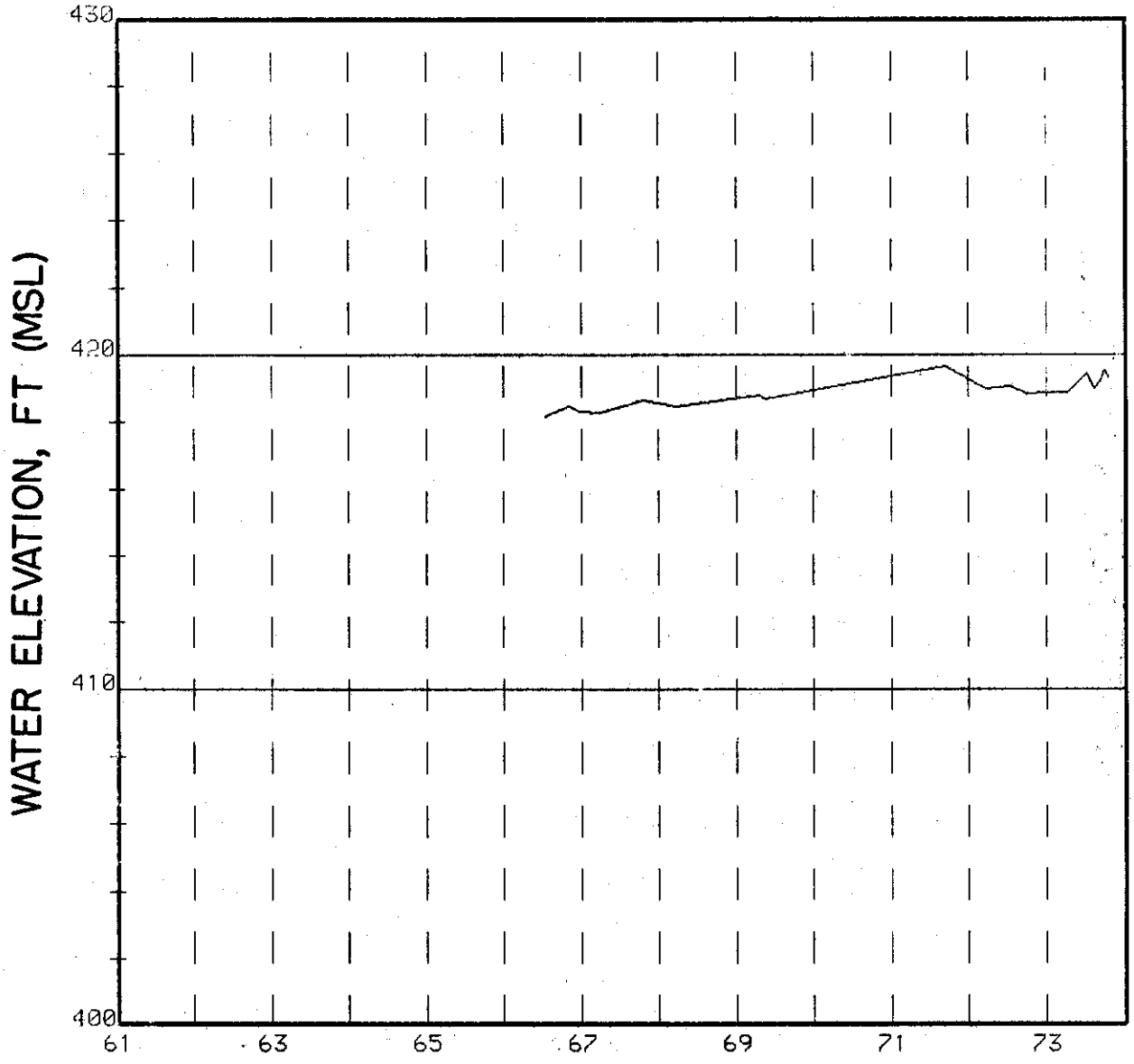

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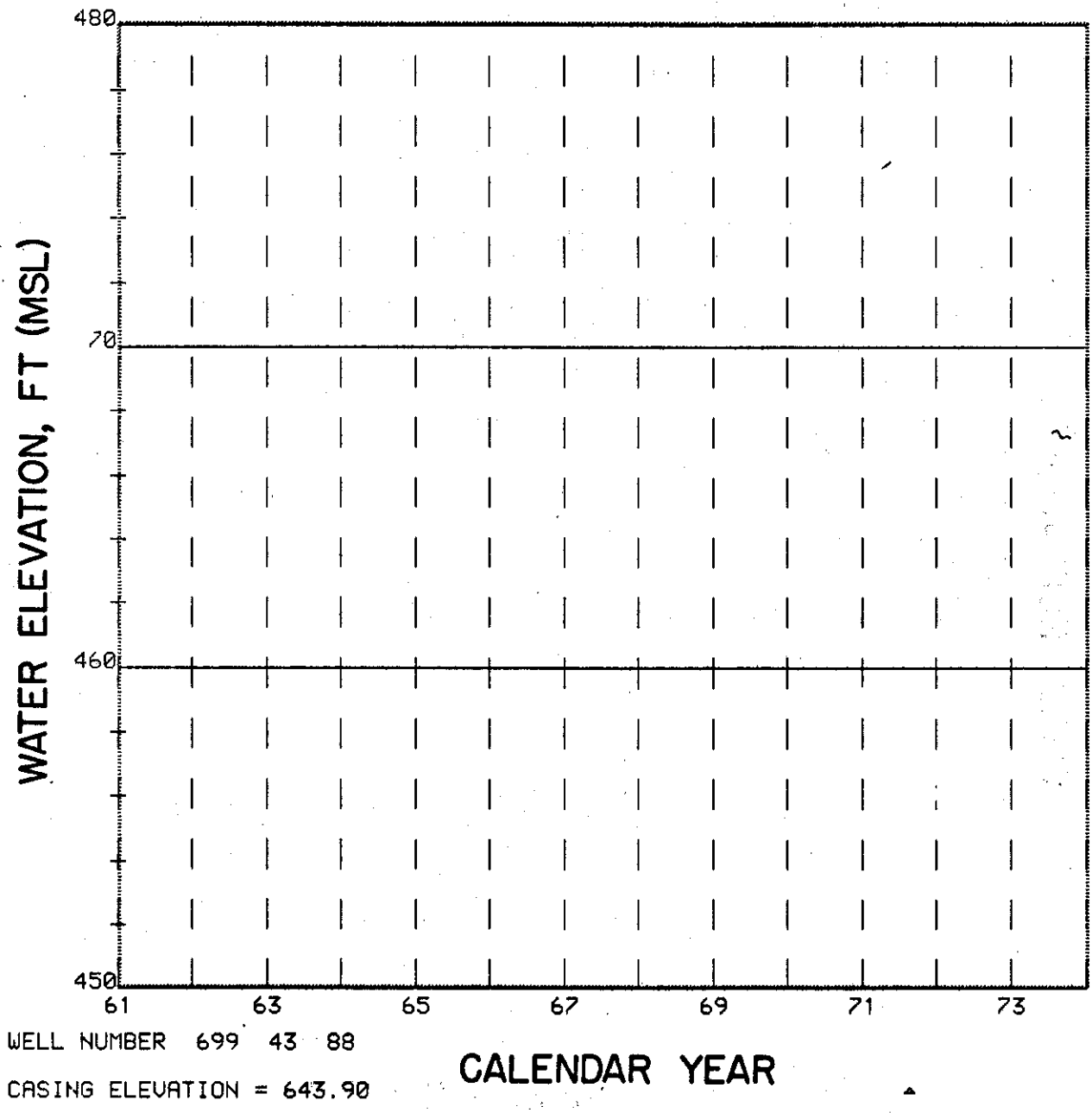

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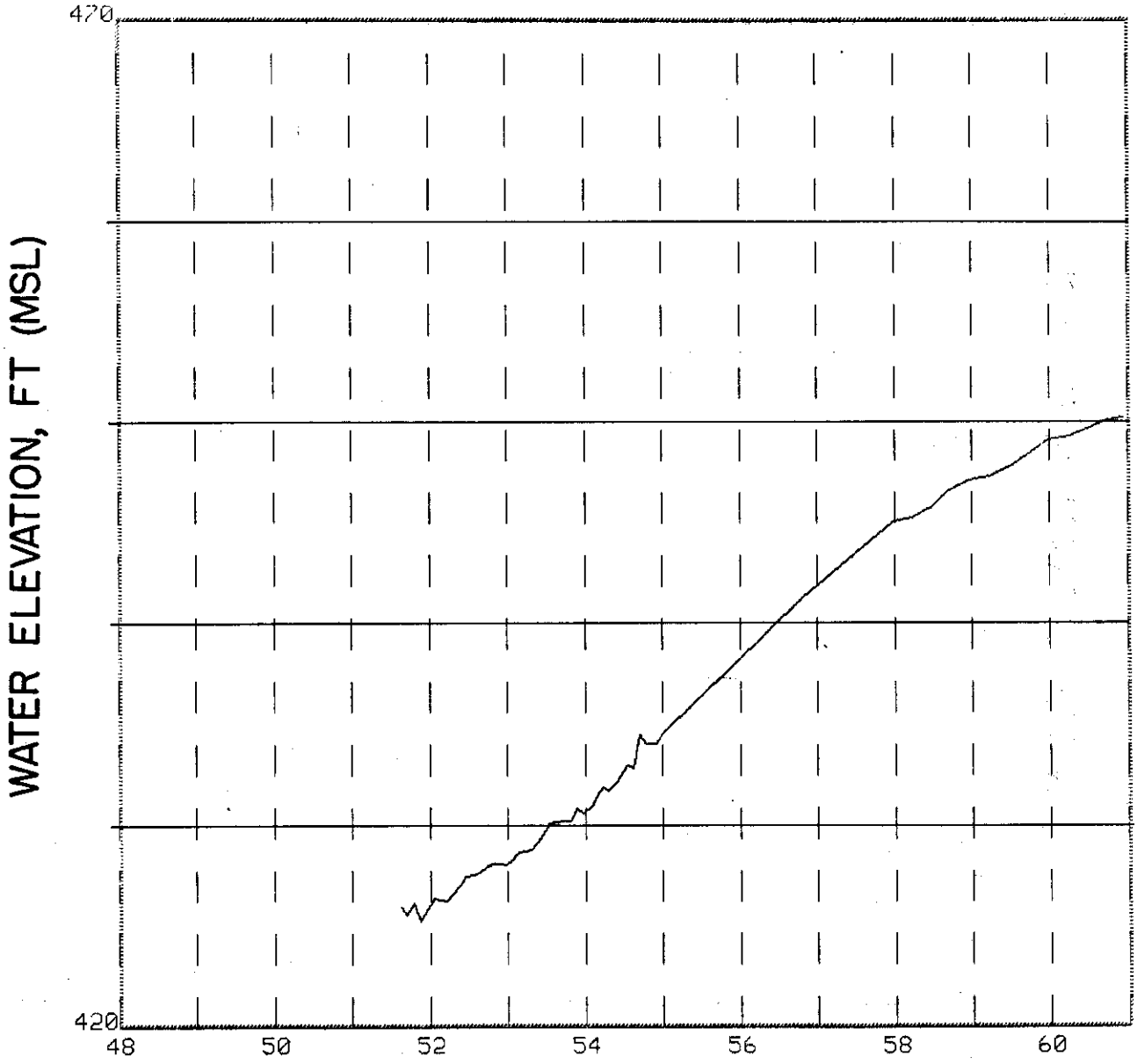

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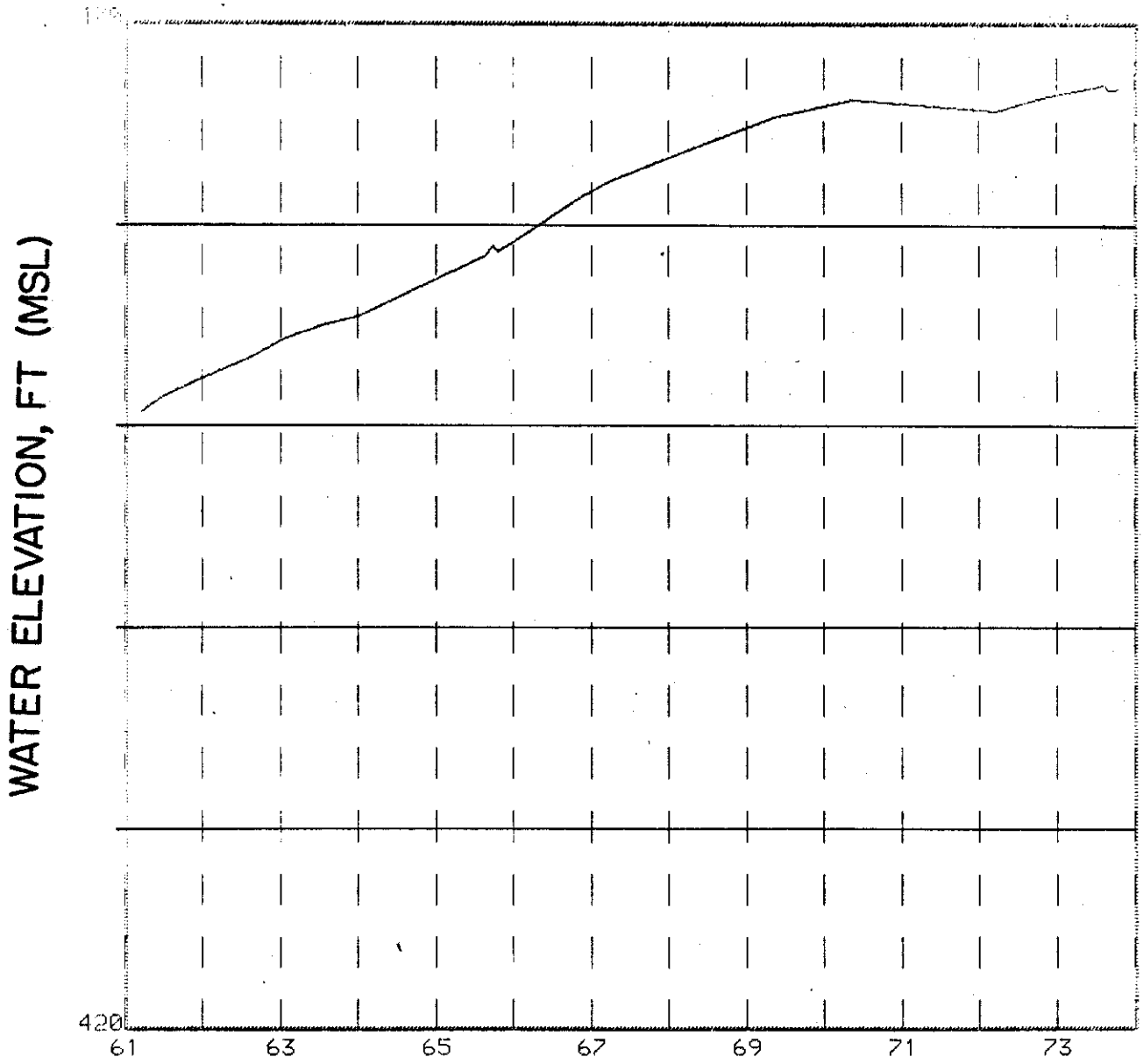

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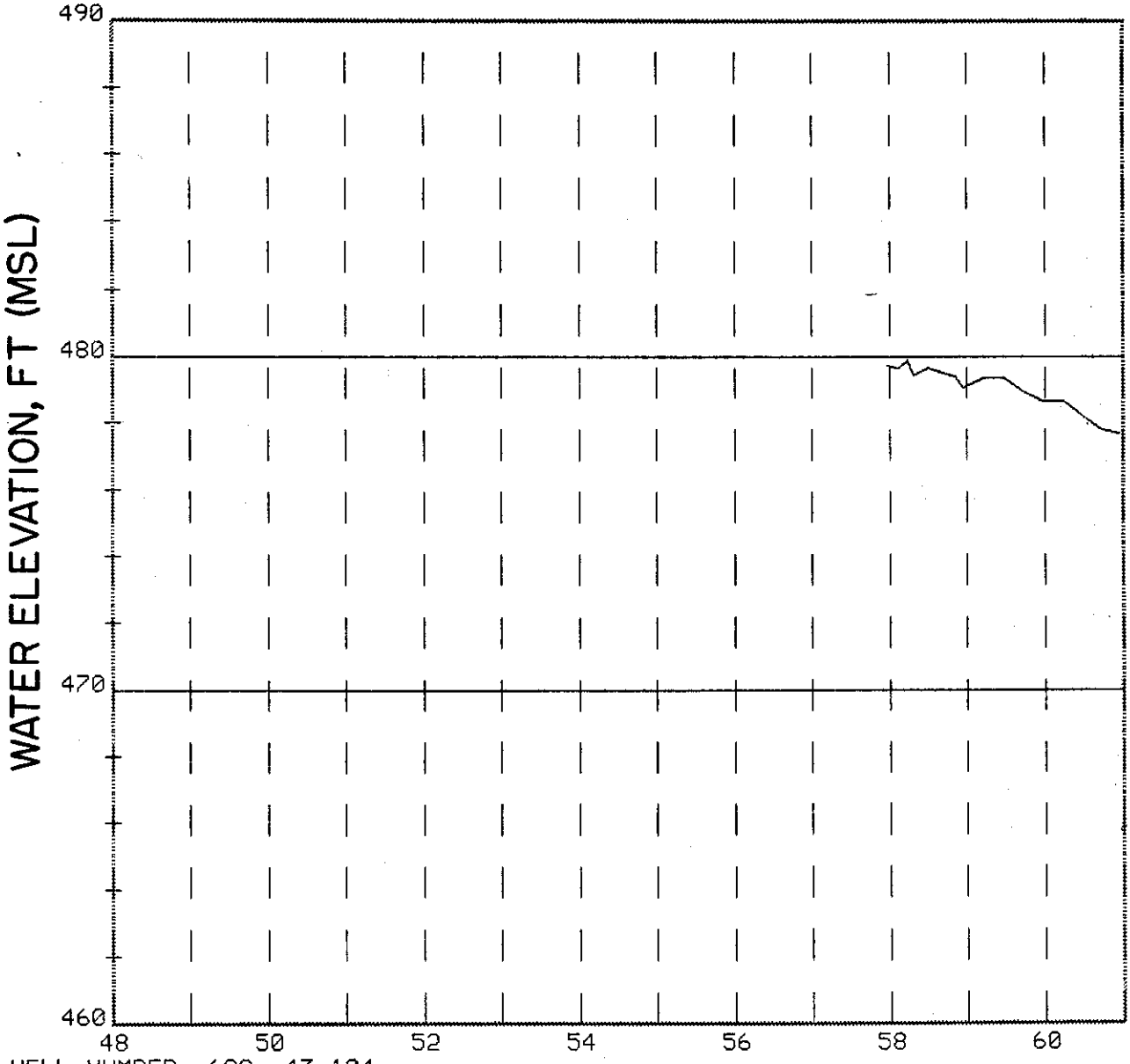

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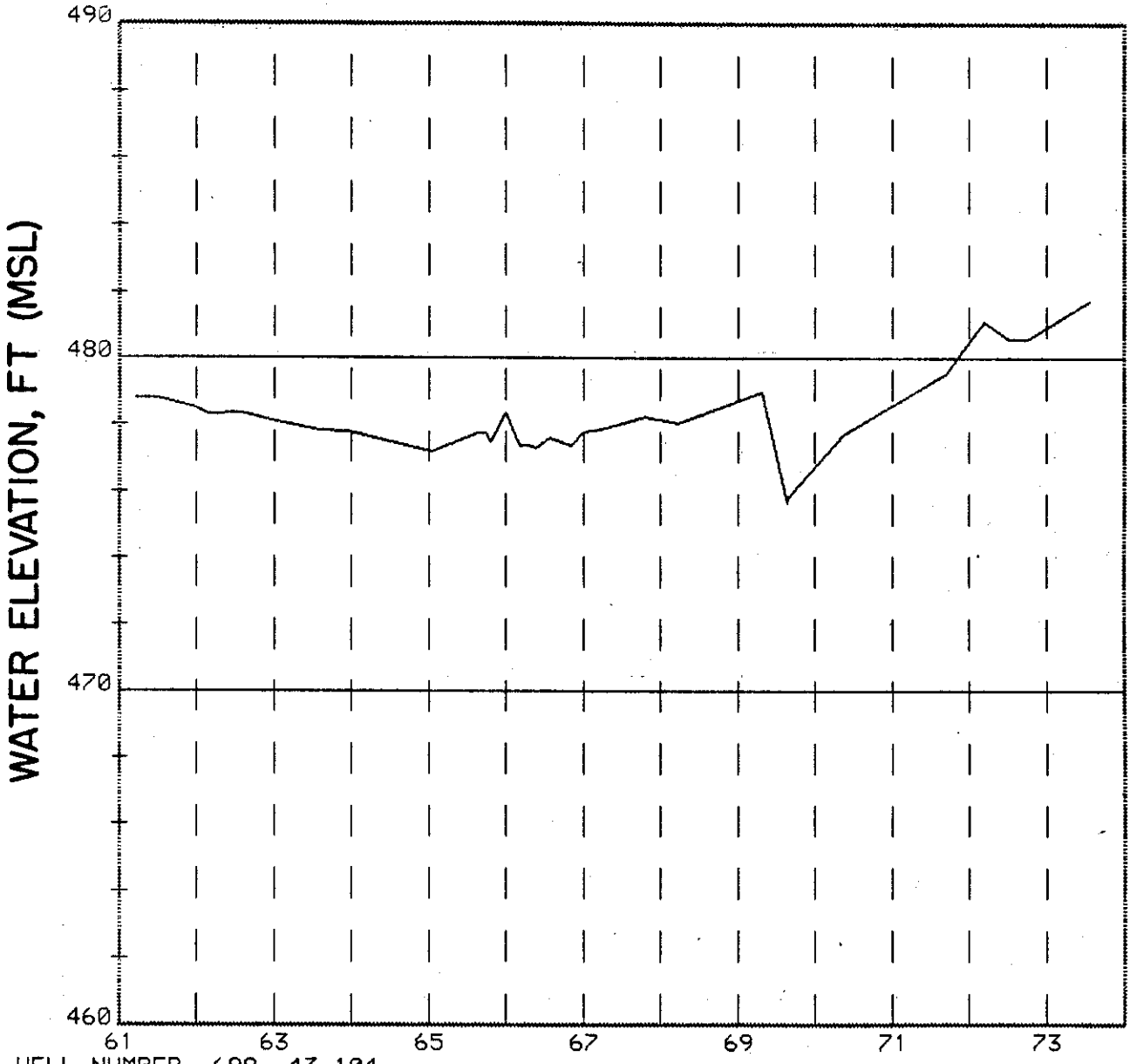

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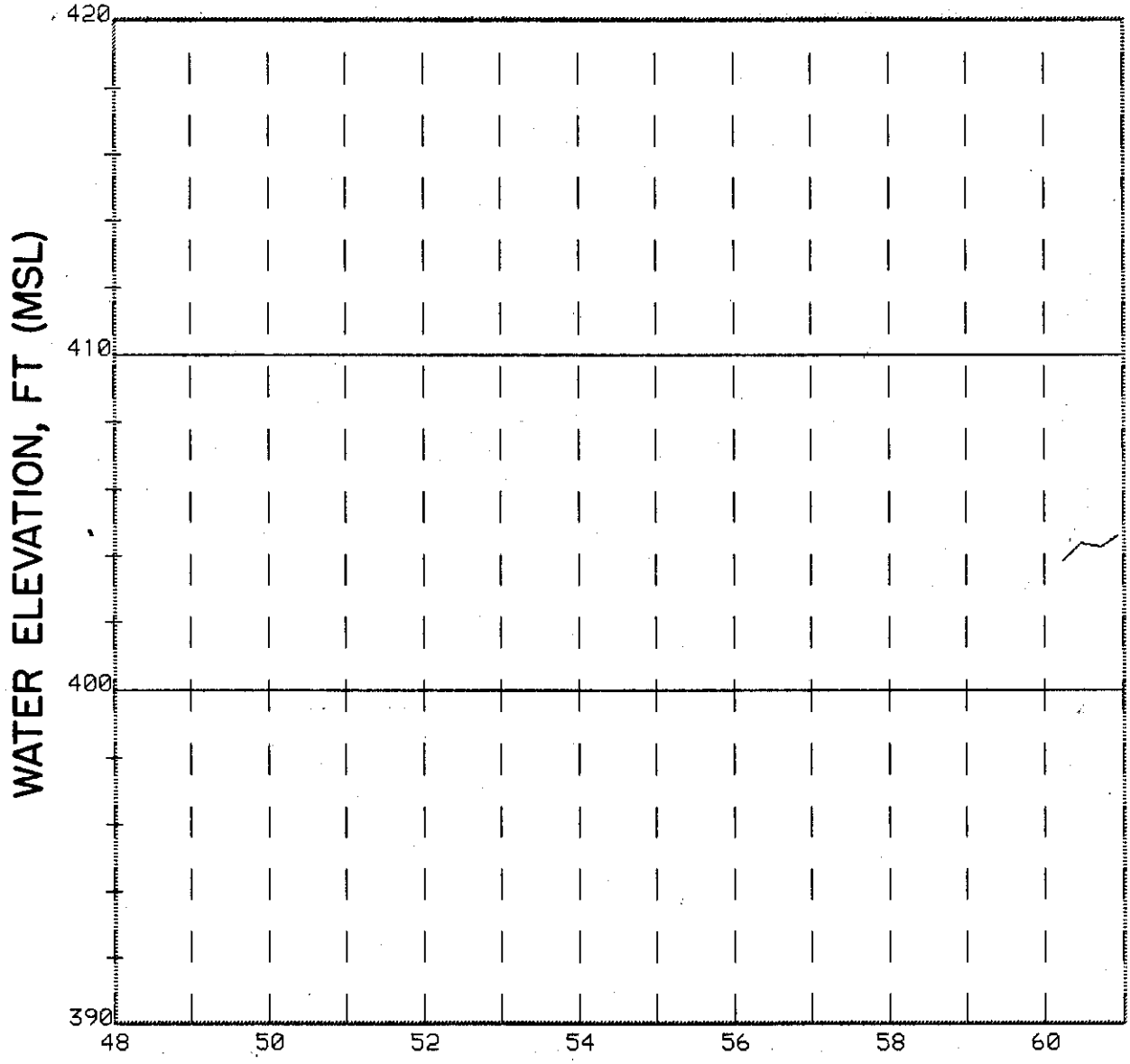

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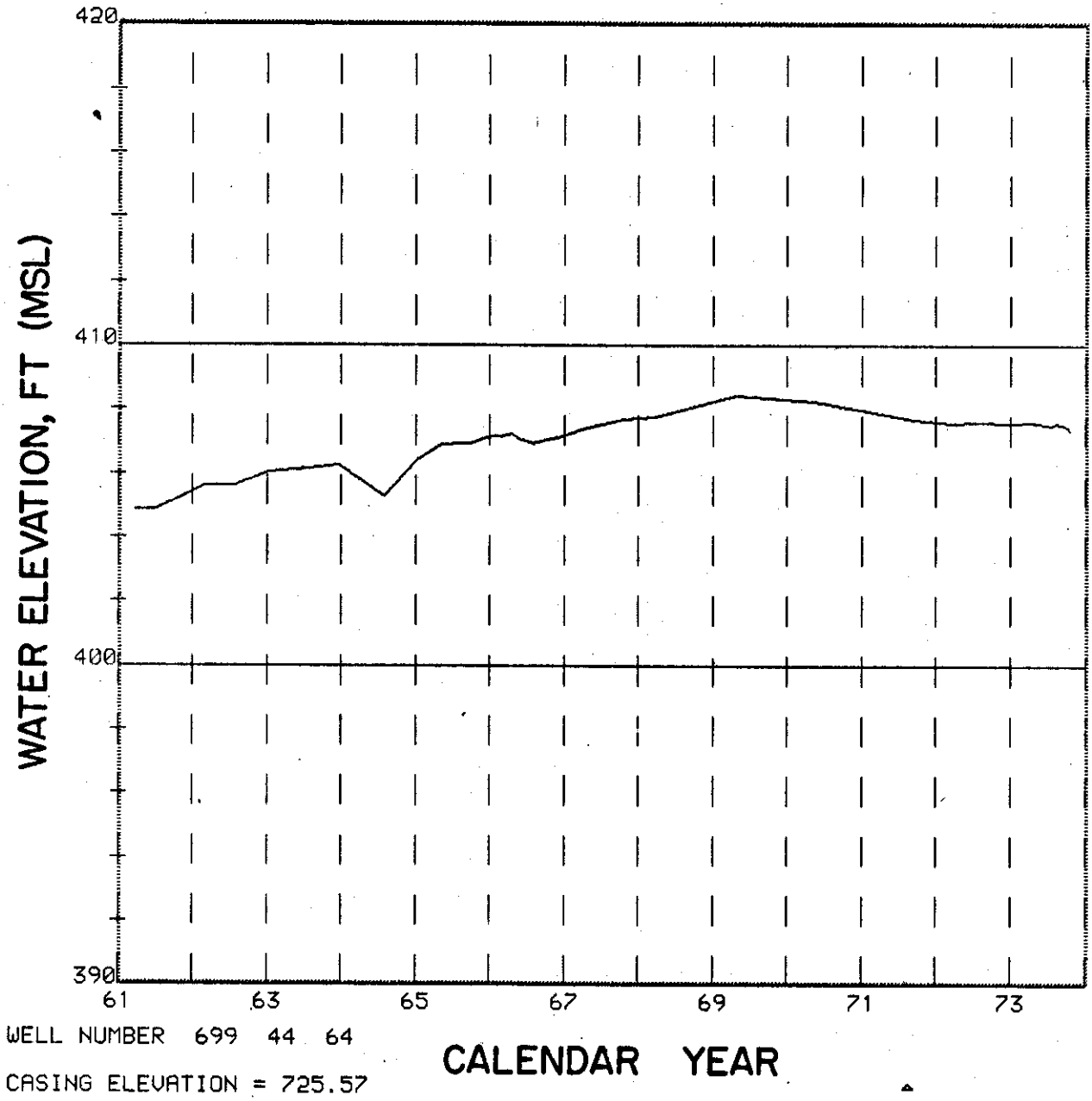

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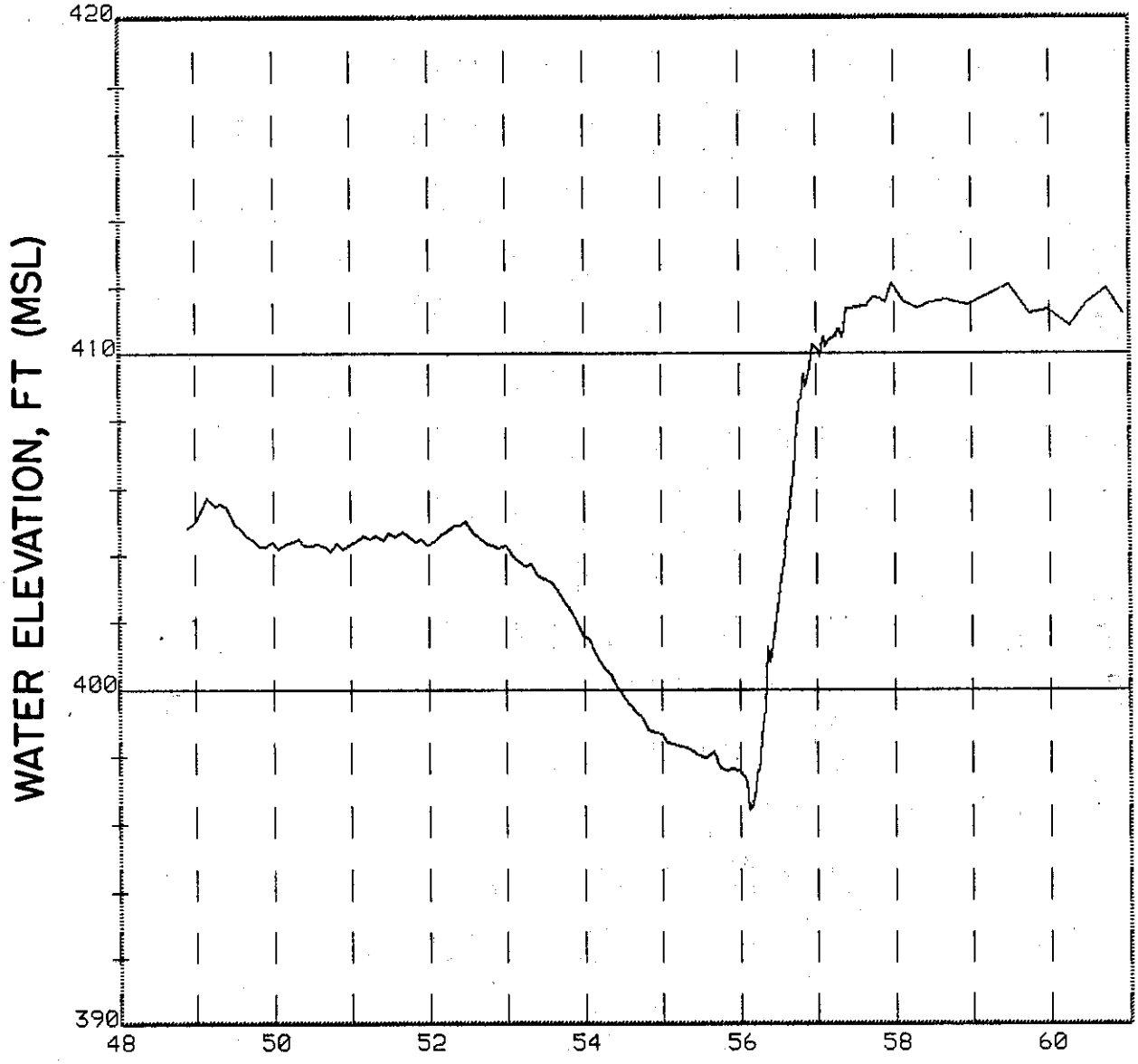

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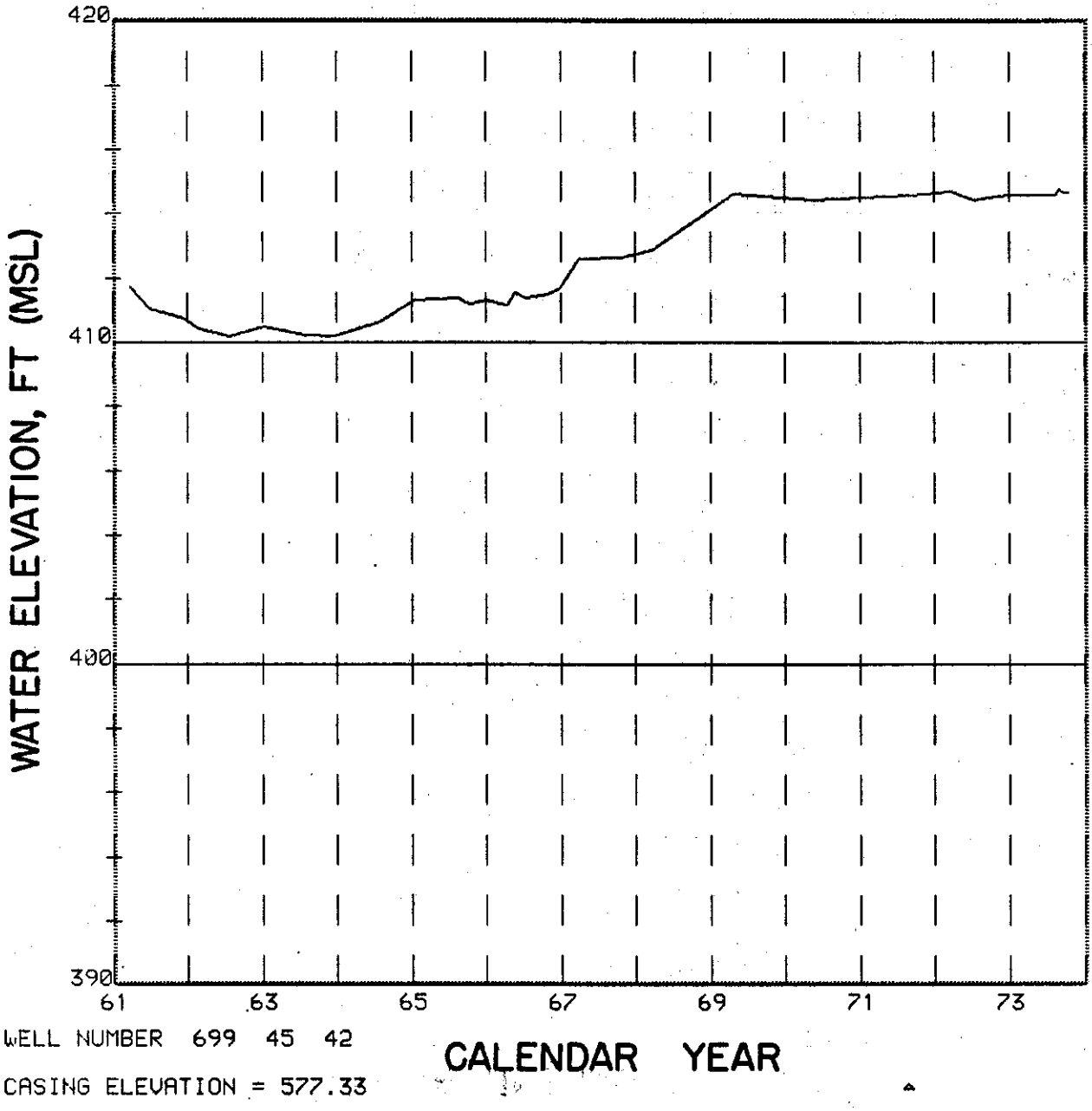
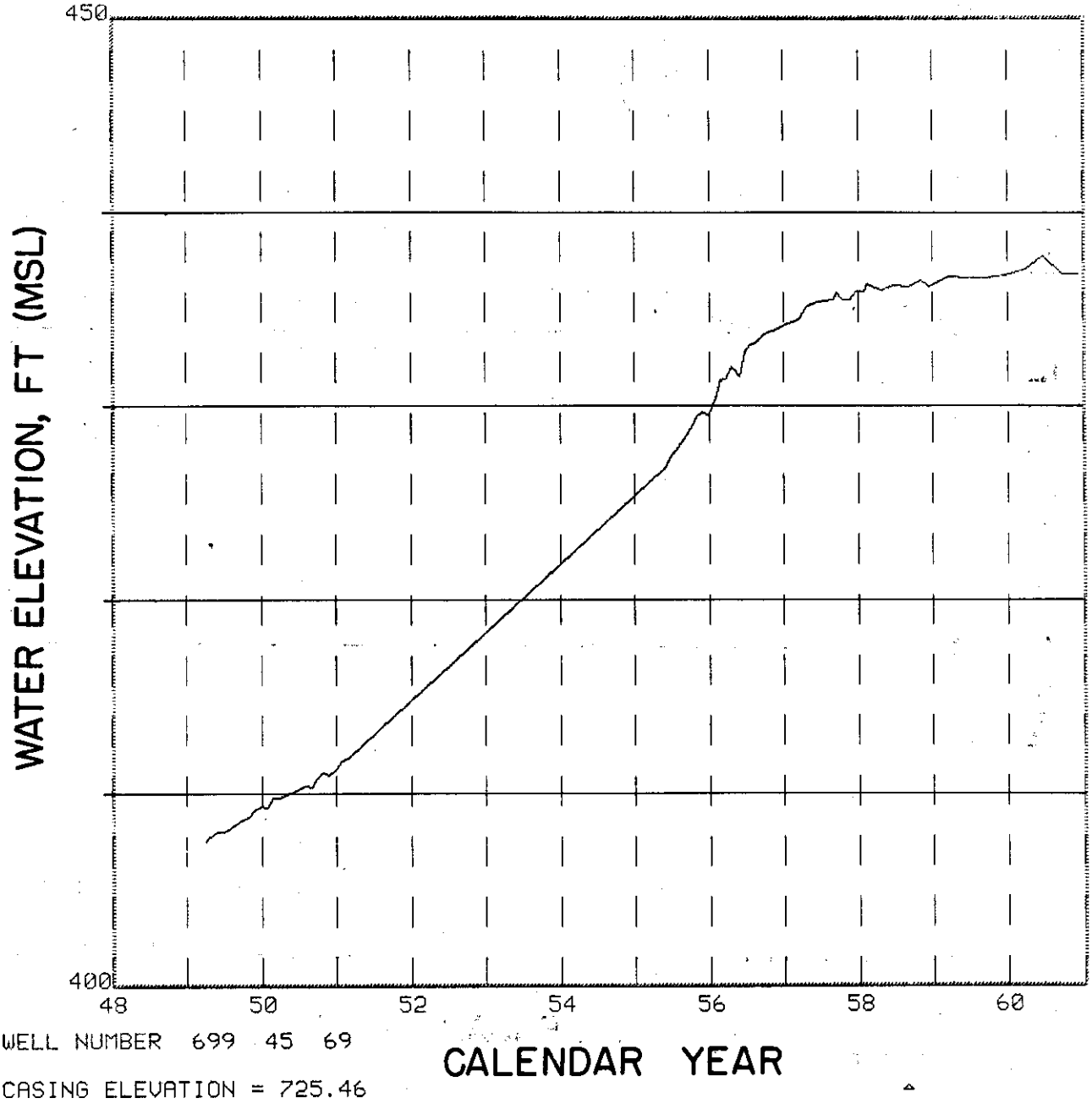

420
410
400
390
WATER ELEVATION, FT (MSL)
61
63
65
67
69
71
73
CALENDAR YEAR
WELL NUMBER 699 45 42
CASING ELEVATION = 577.33



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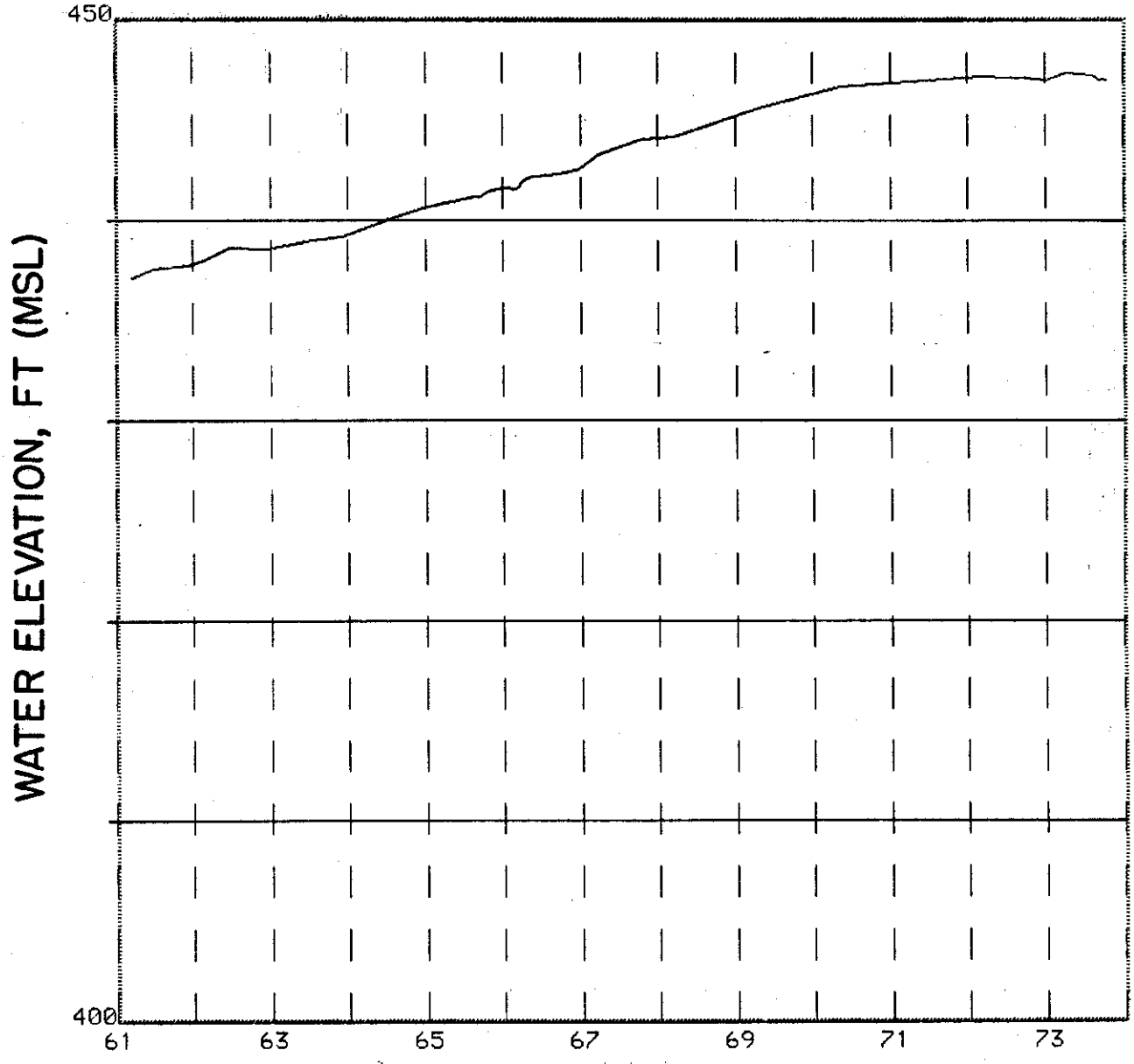

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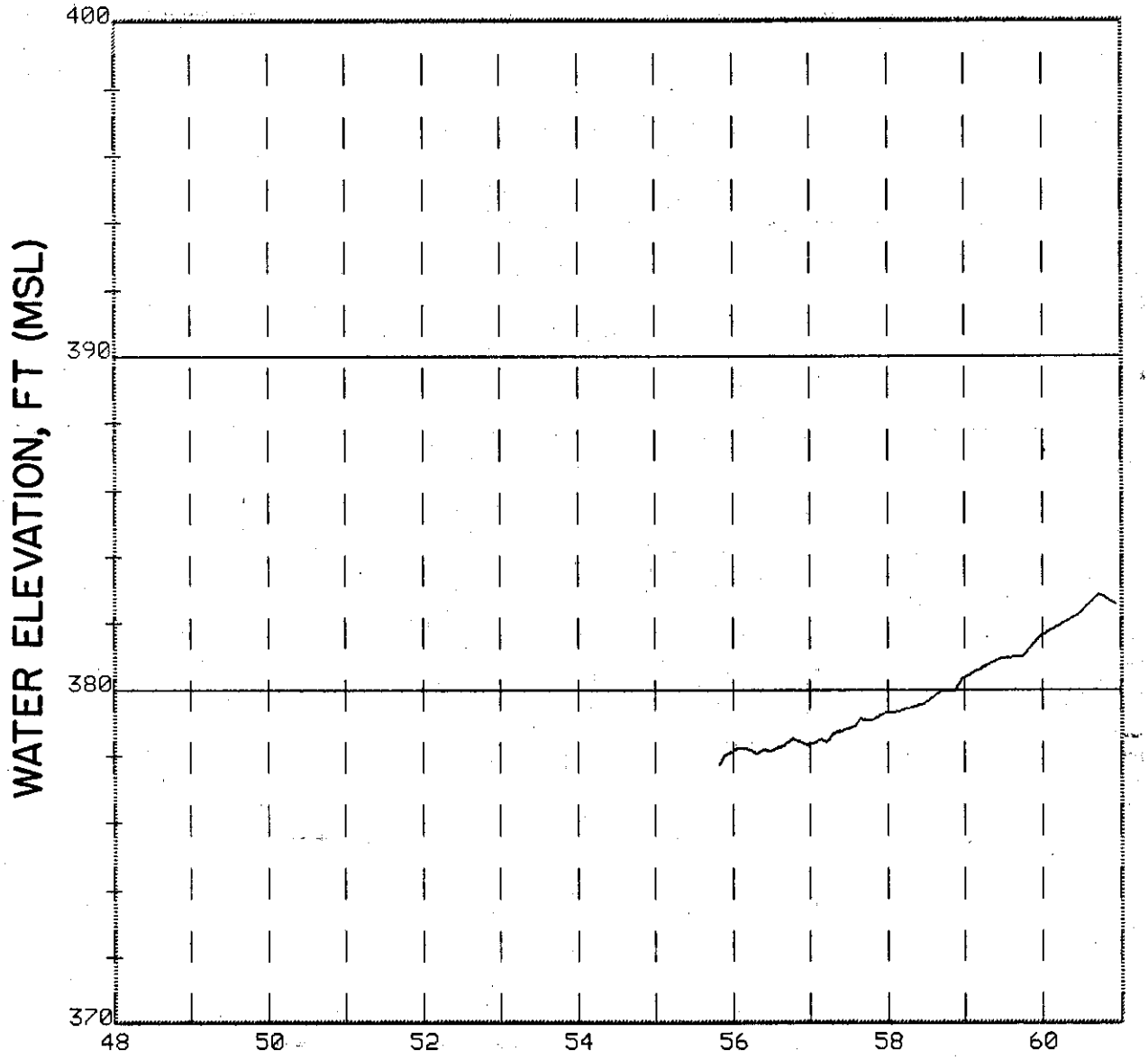

WELL NUMBER 699 46 21

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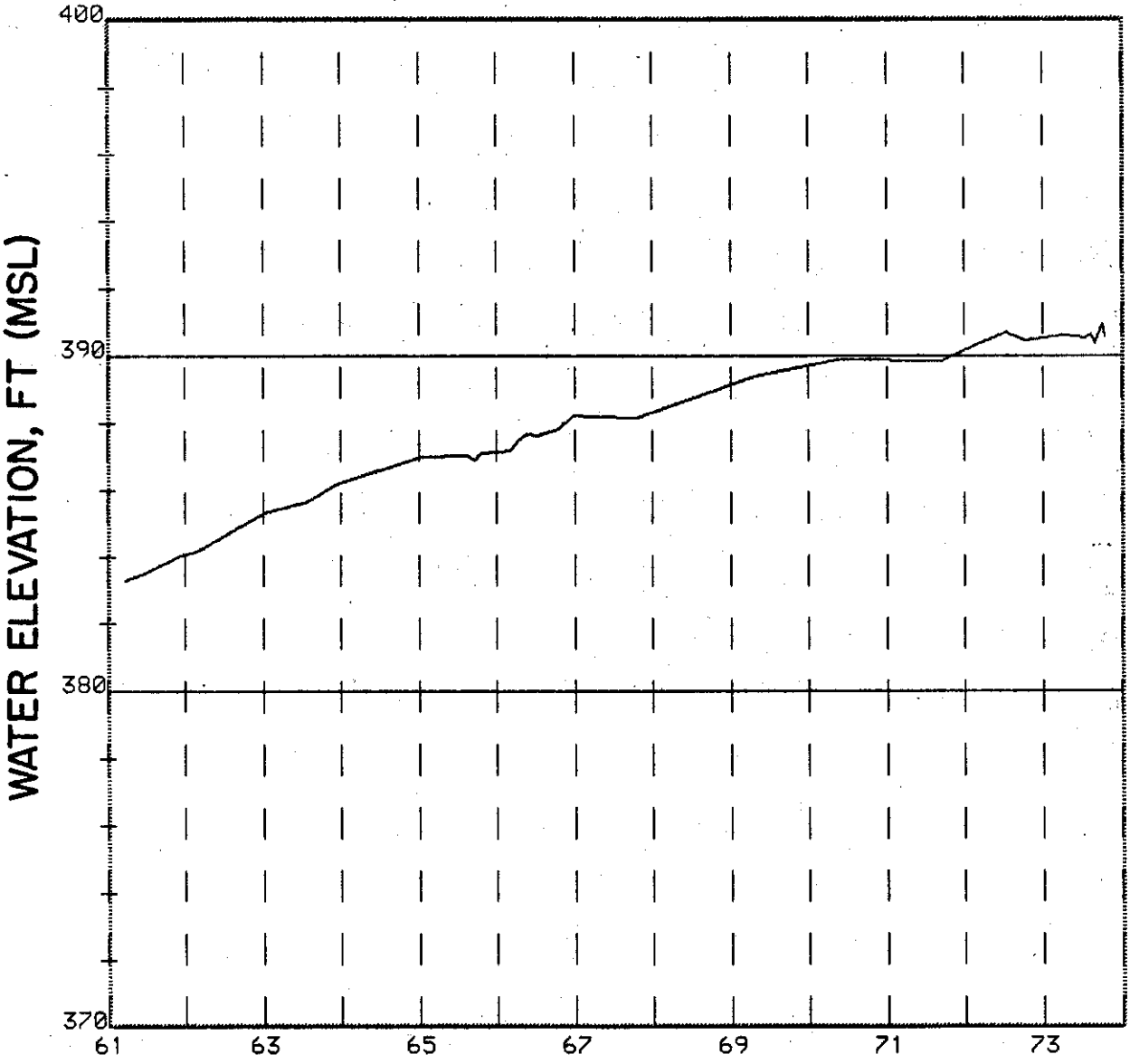

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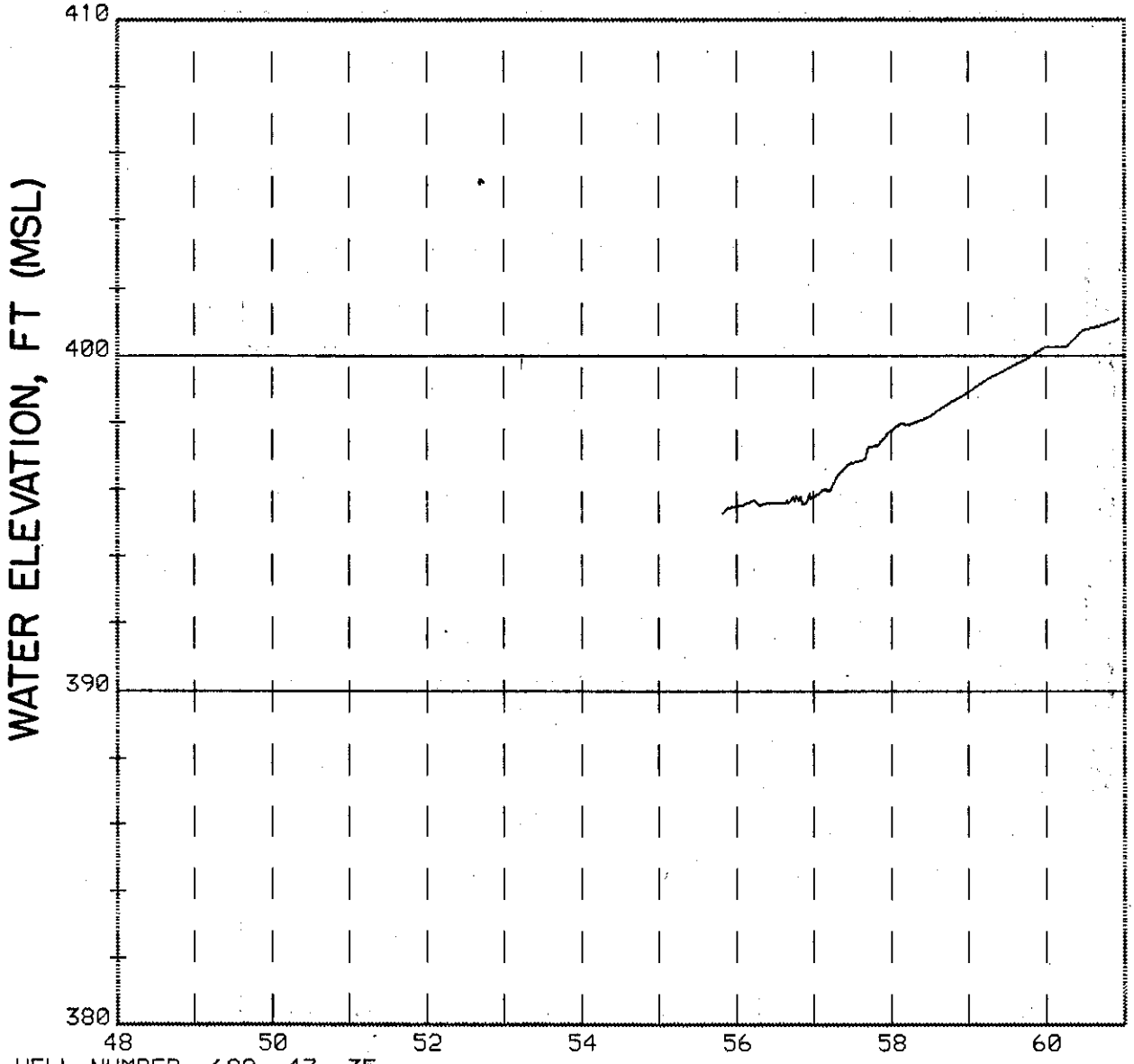

WELL NUMBER 699 47 35

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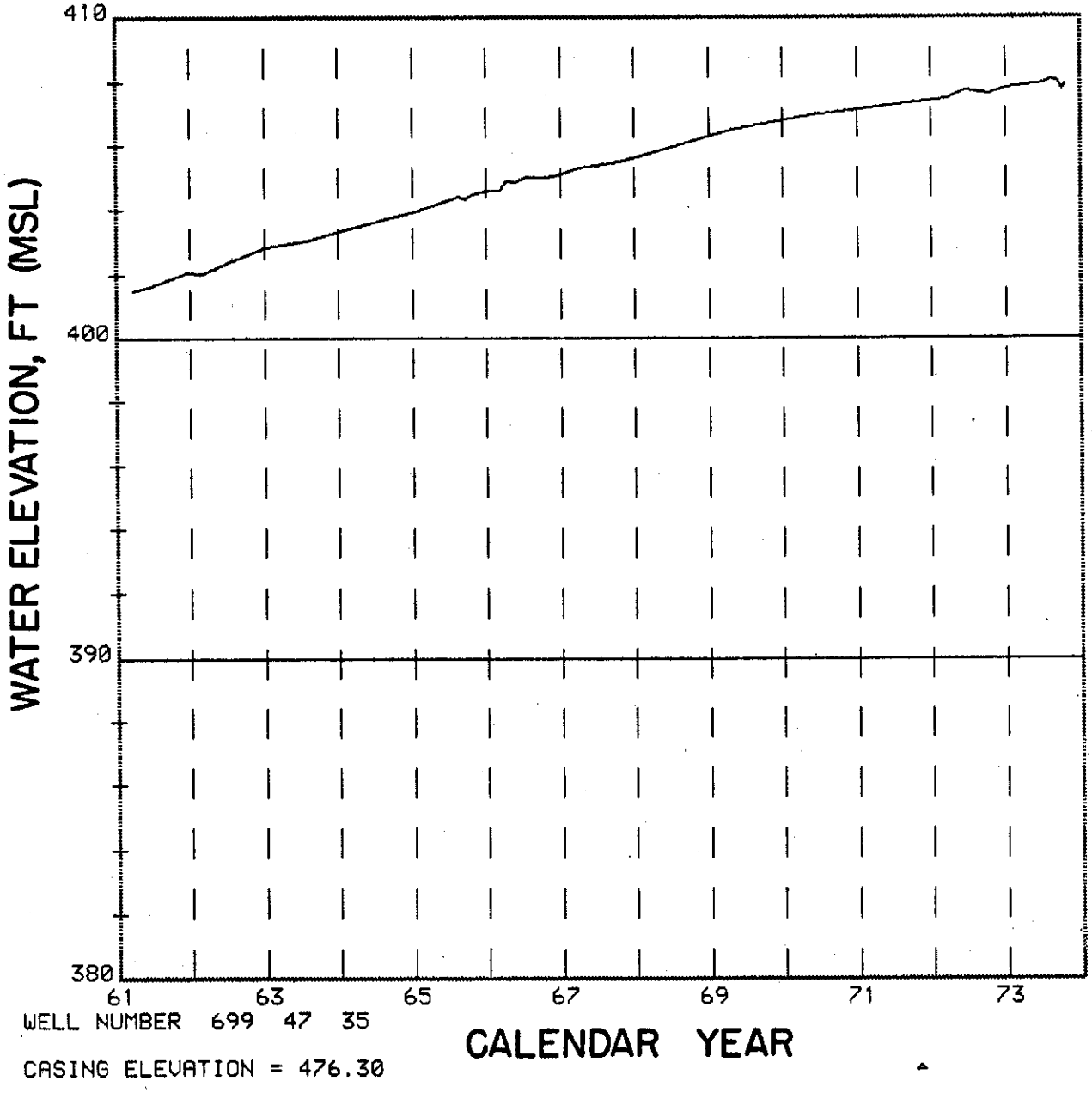
410
400
390
380
WATER ELEVATION, FT (MSL)
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73
CALENDAR YEAR
WELL NUMBER 699 47 35
CASING ELEVATION = 476.30

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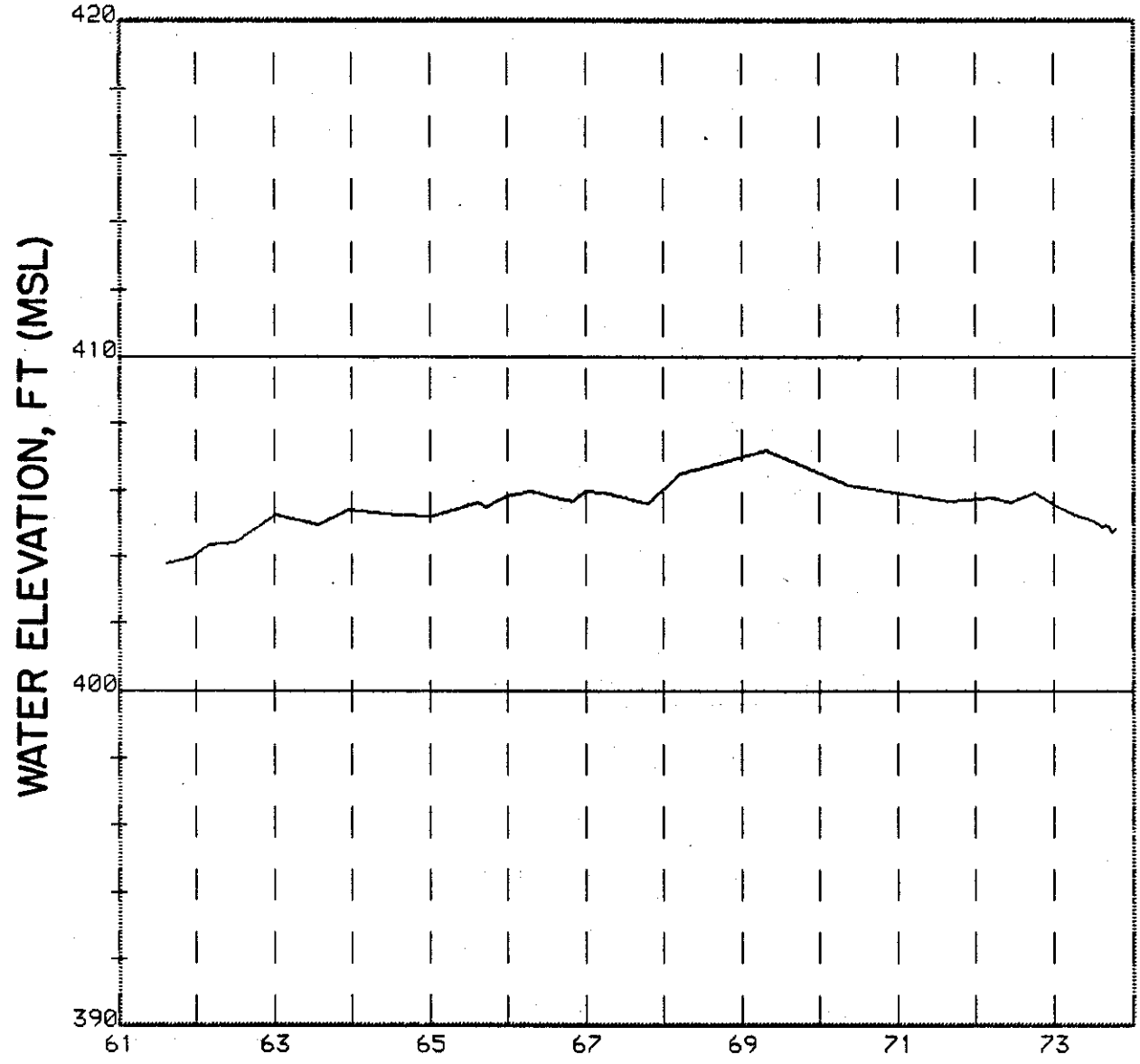

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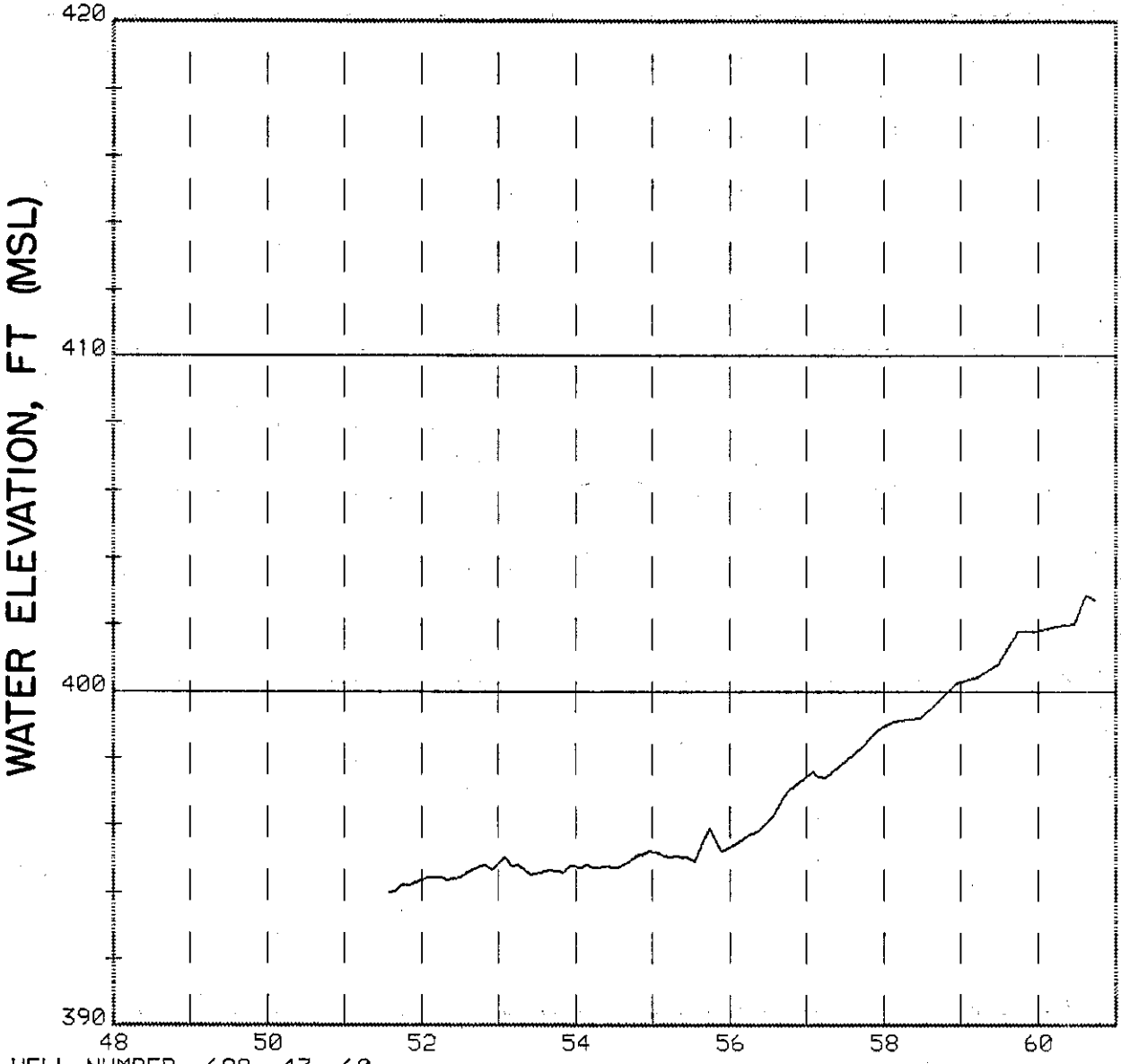

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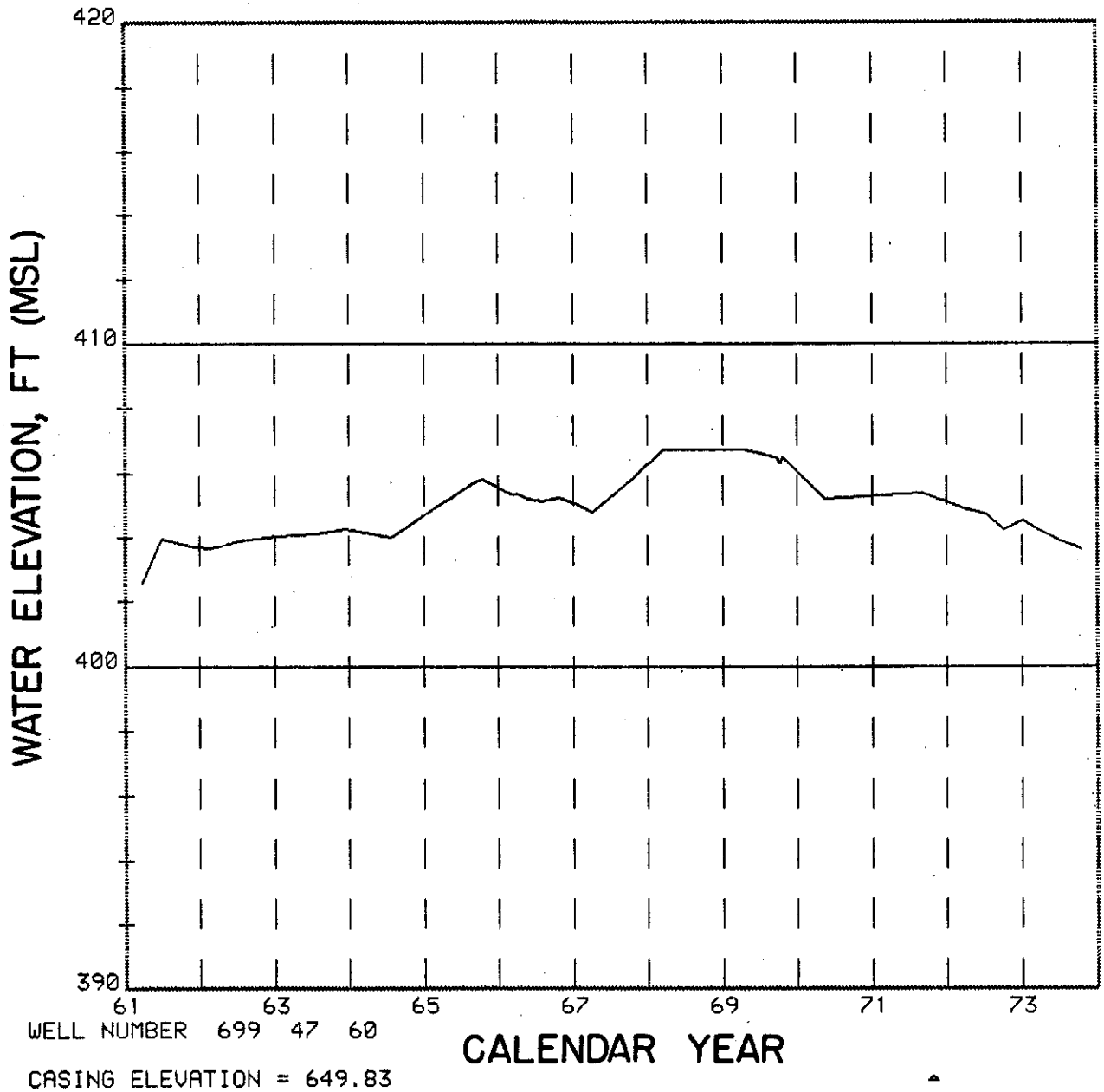

WELL NUMBER 699 47 60

CASING ELEVATION = 649.83

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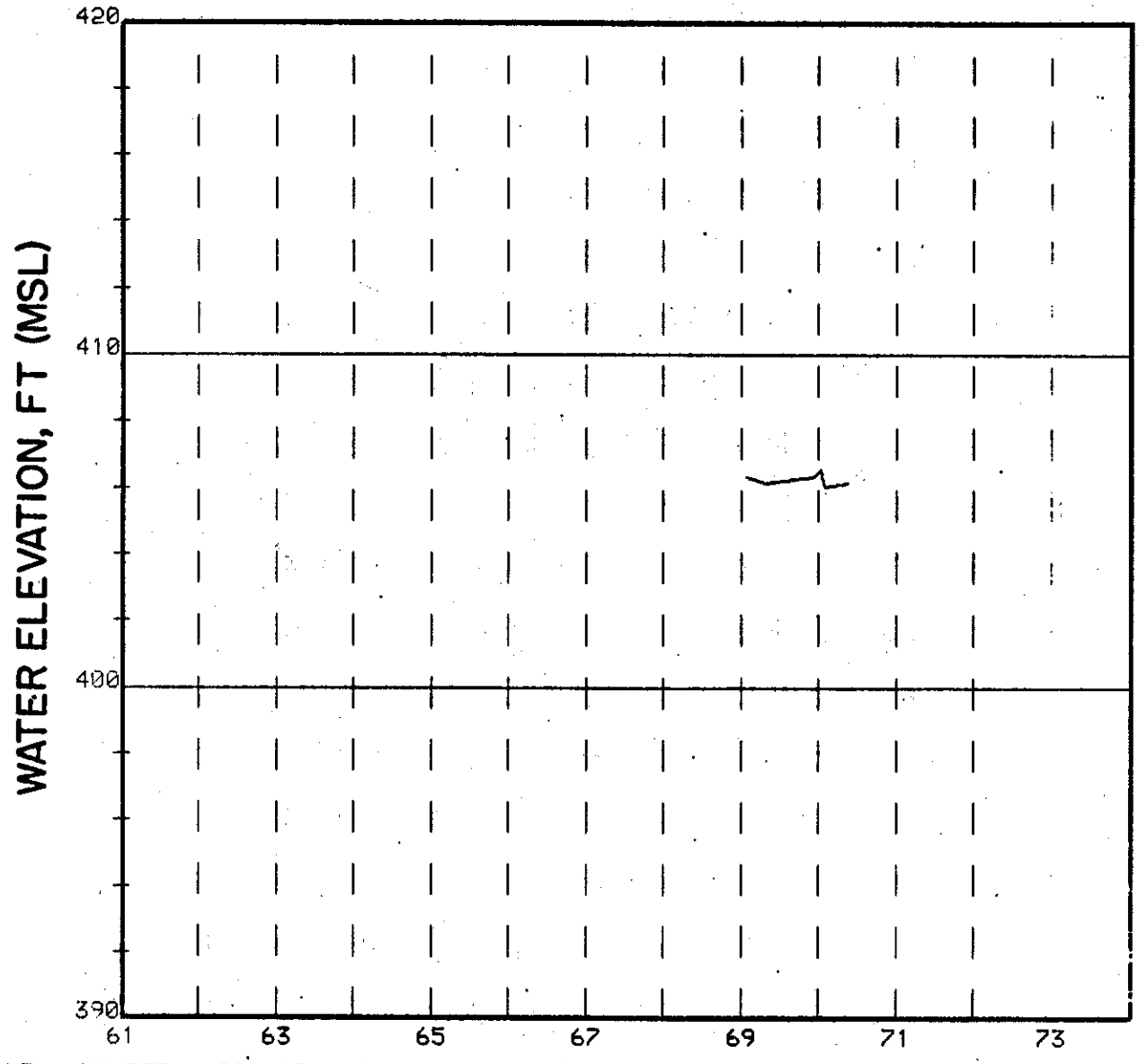

WELL NUMBER 699 48 49

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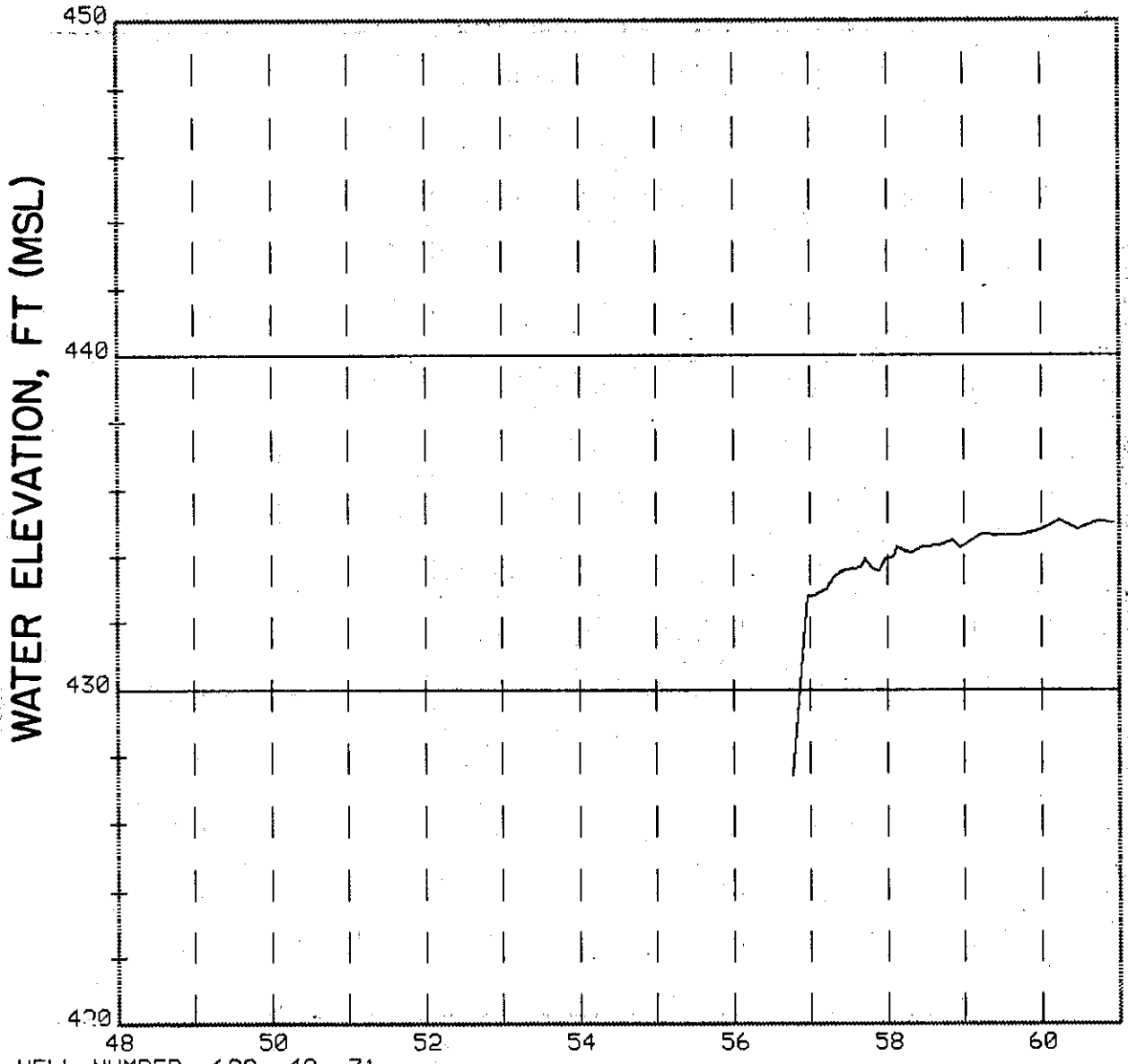

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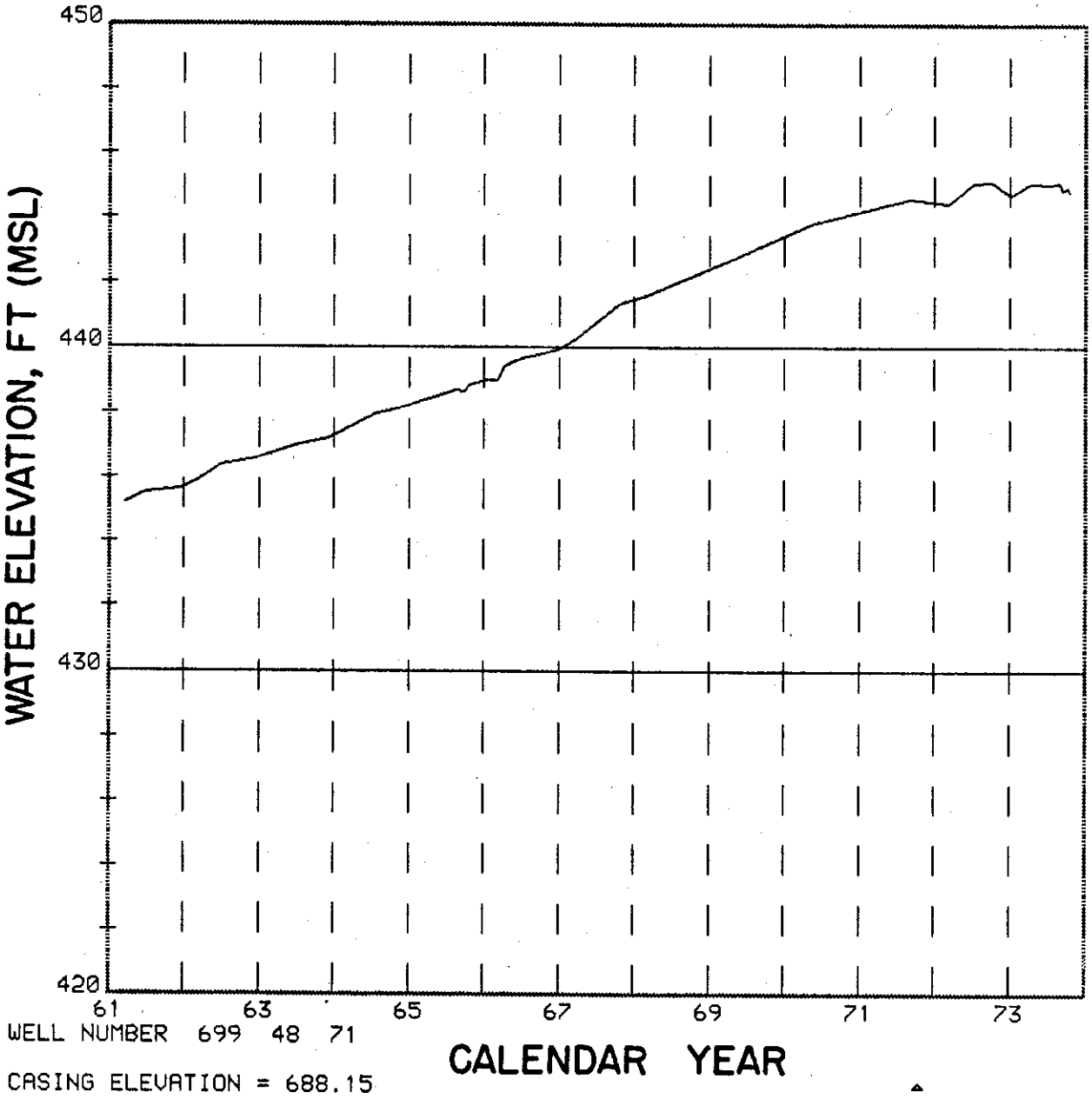
450
440
430
420
WATER ELEVATION, FT (MSL)
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CALENDAR YEAR
WELL NUMBER 699 48 71
CASING ELEVATION = 688.15

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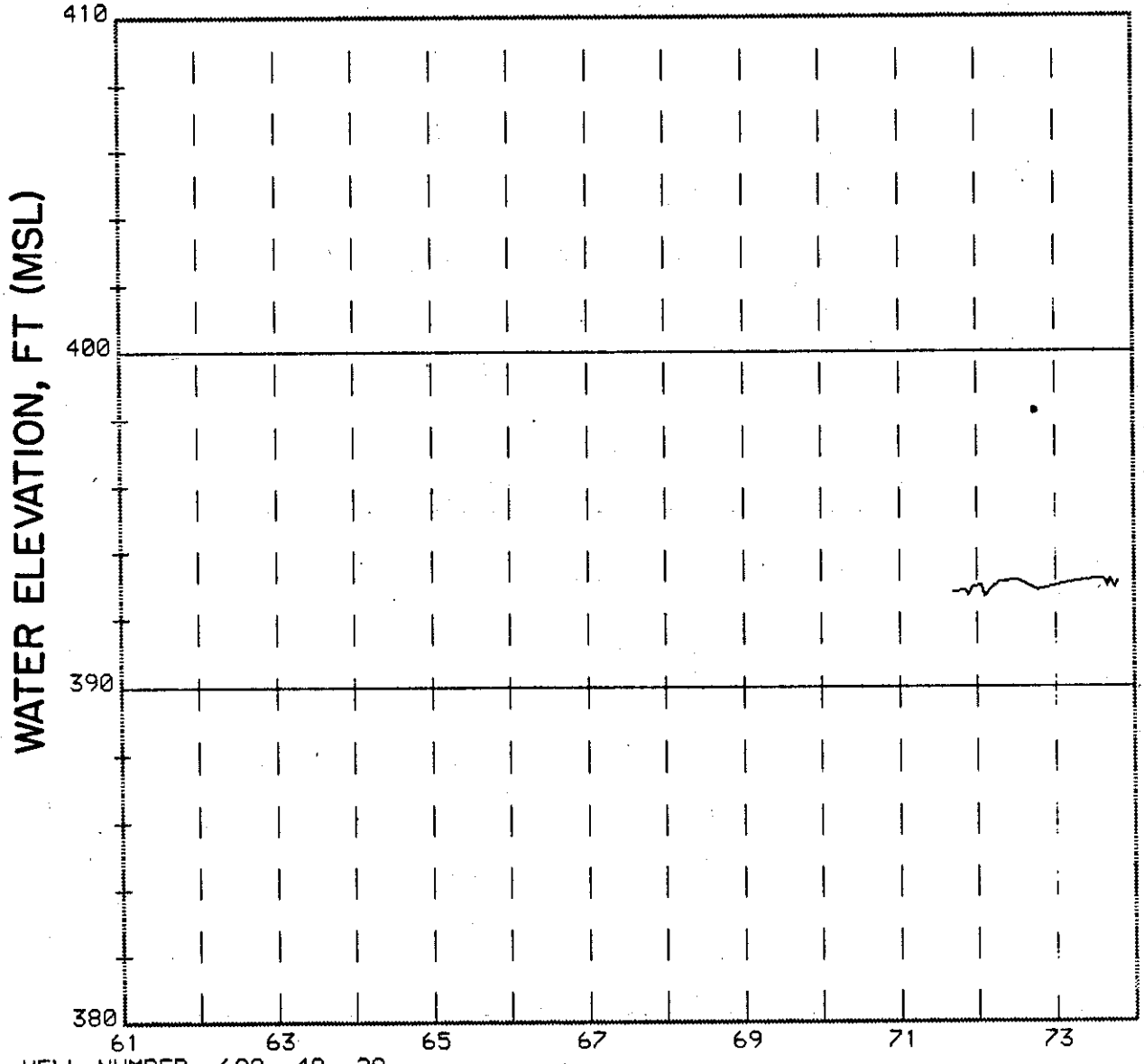

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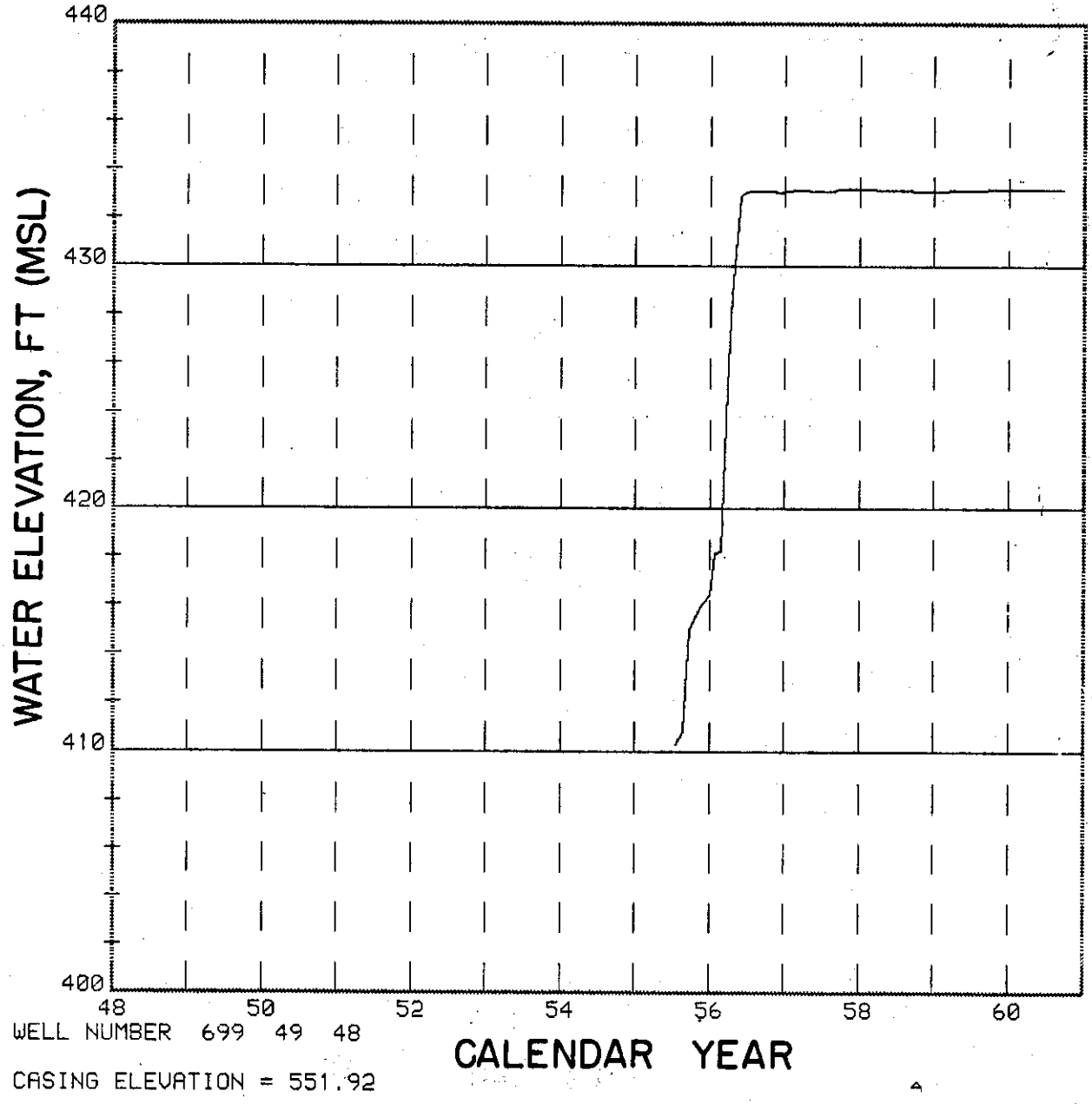

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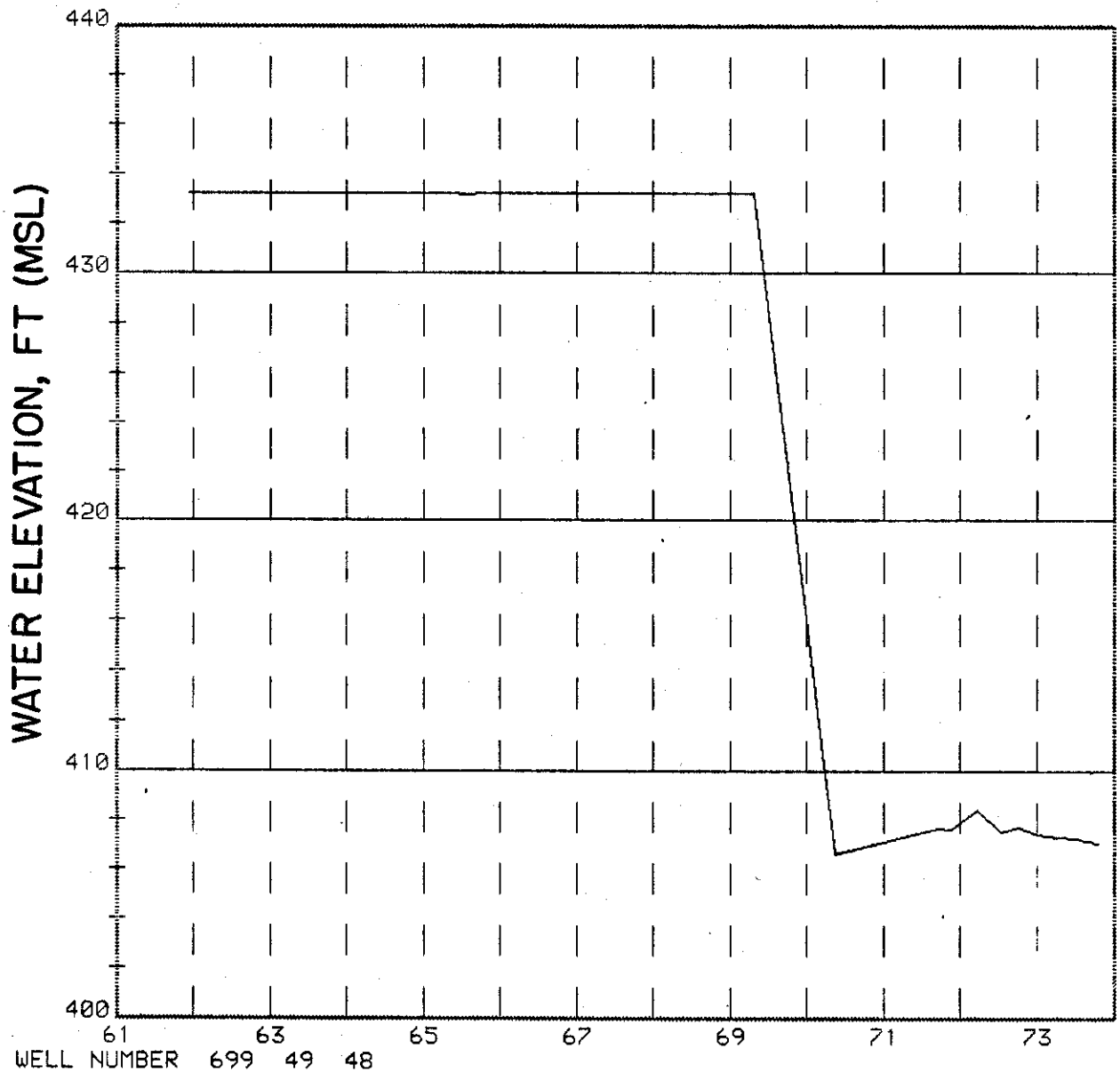

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CASING ELEVATION = 551.92

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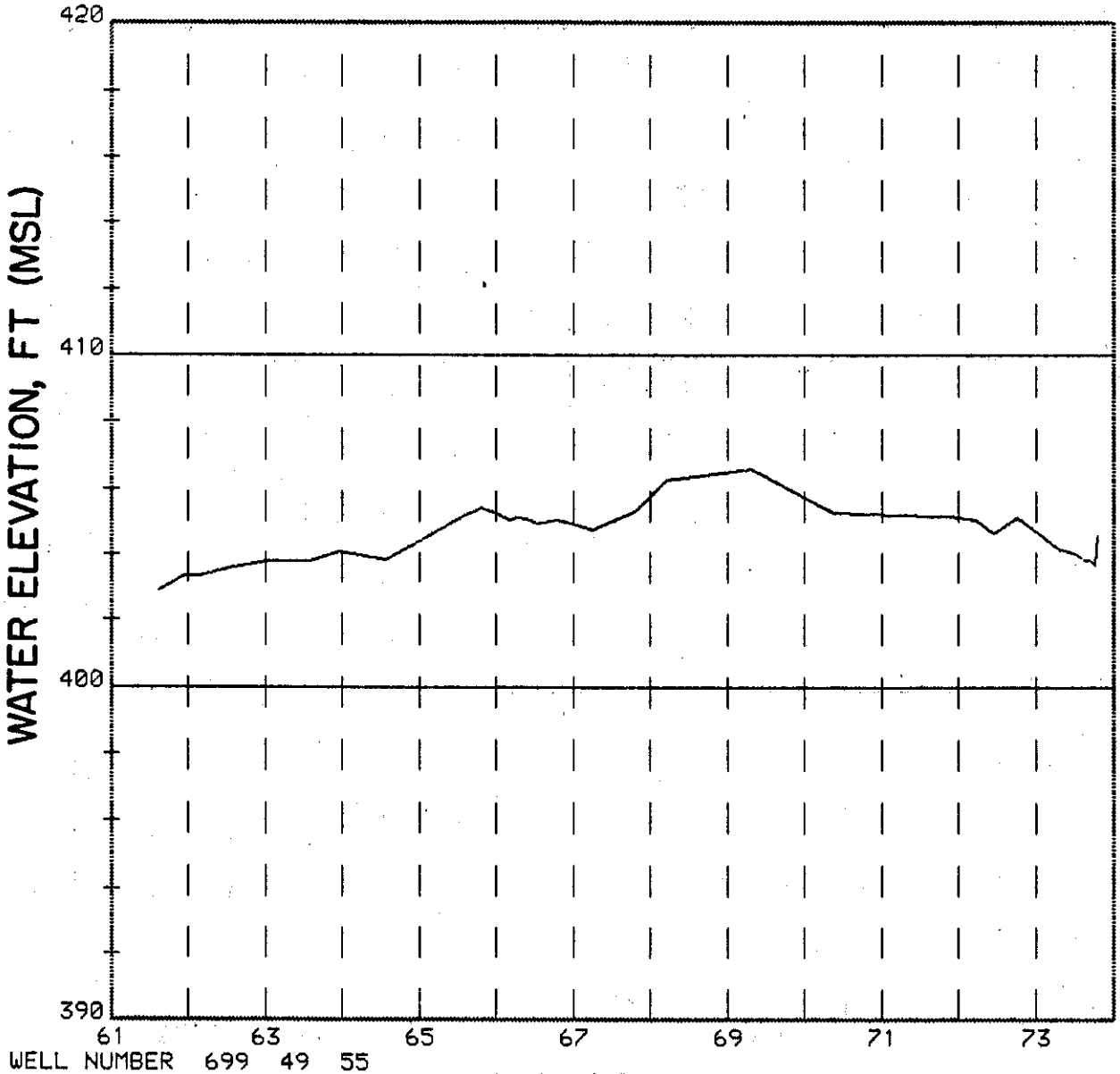

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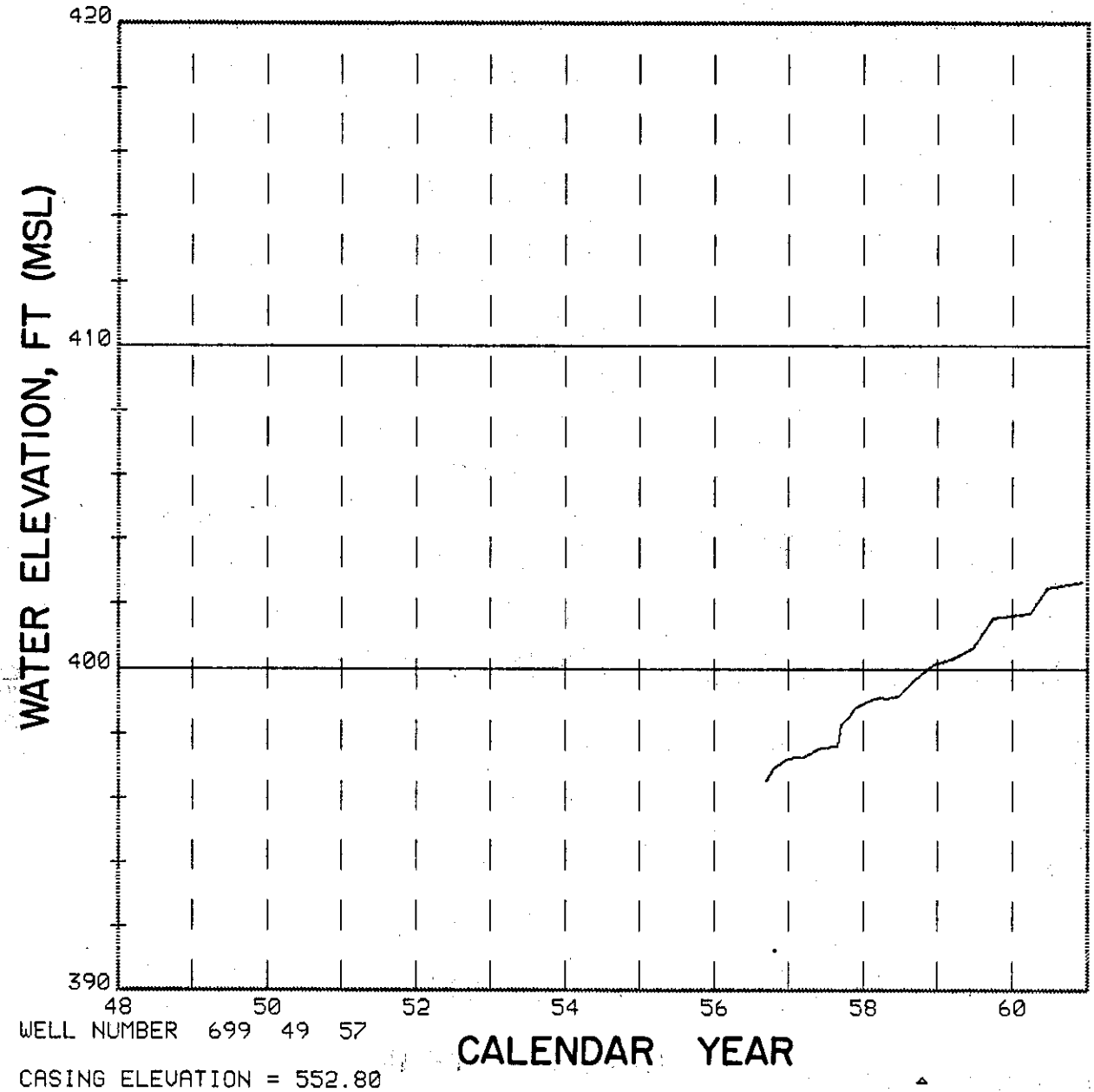

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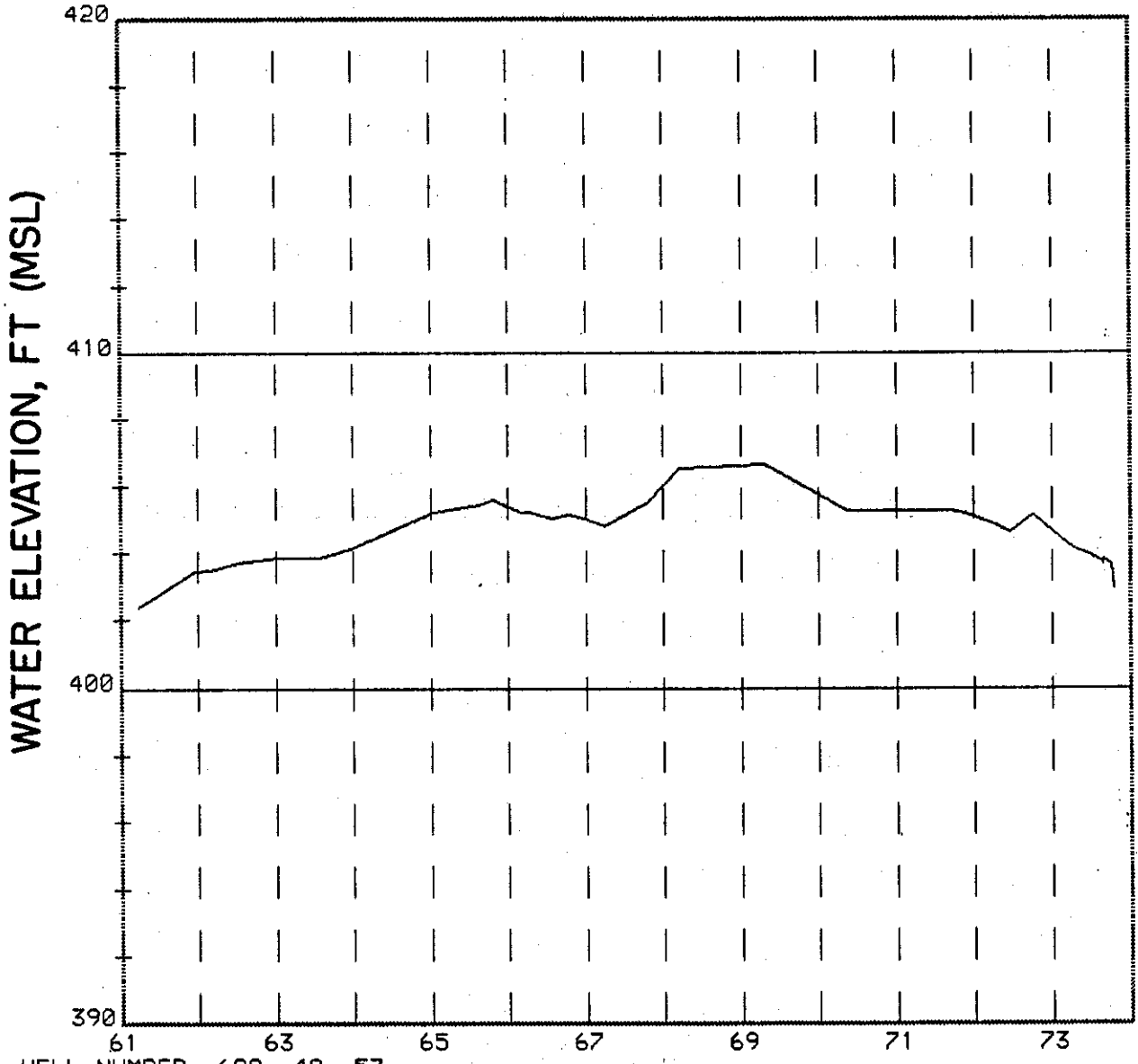

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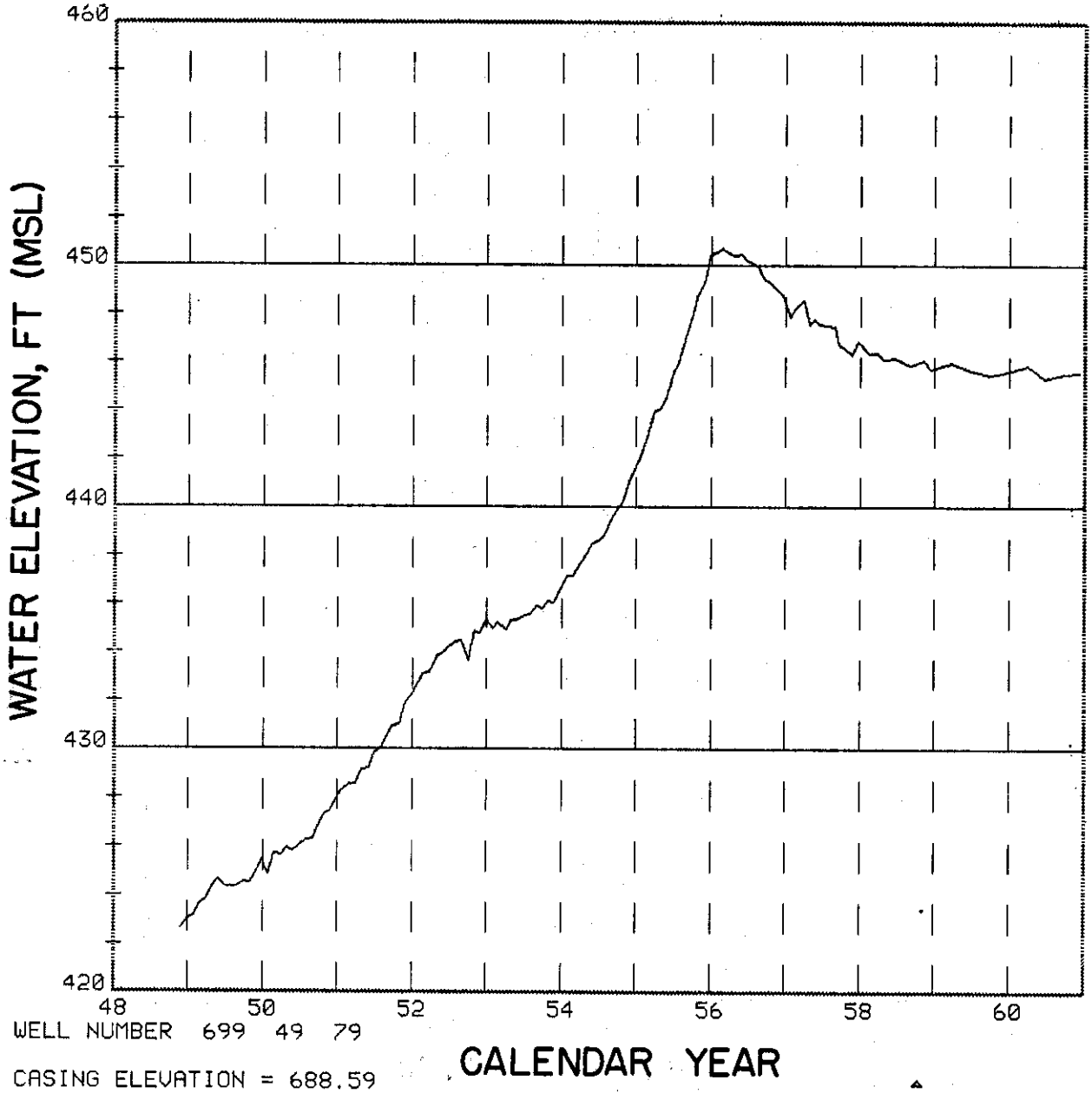

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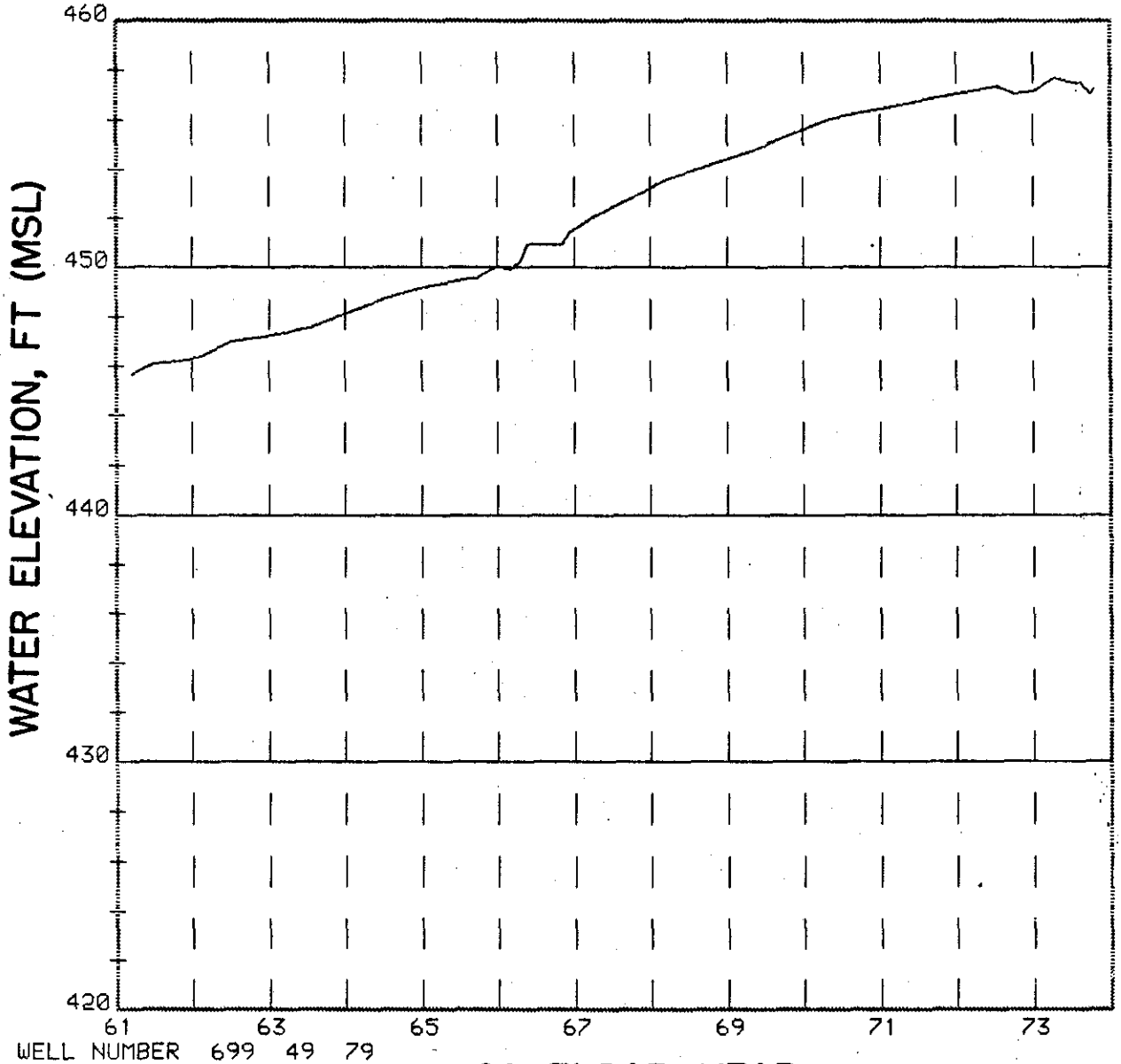

WELL NUMBER 699 49 79

CASING ELEVATION = 688.59

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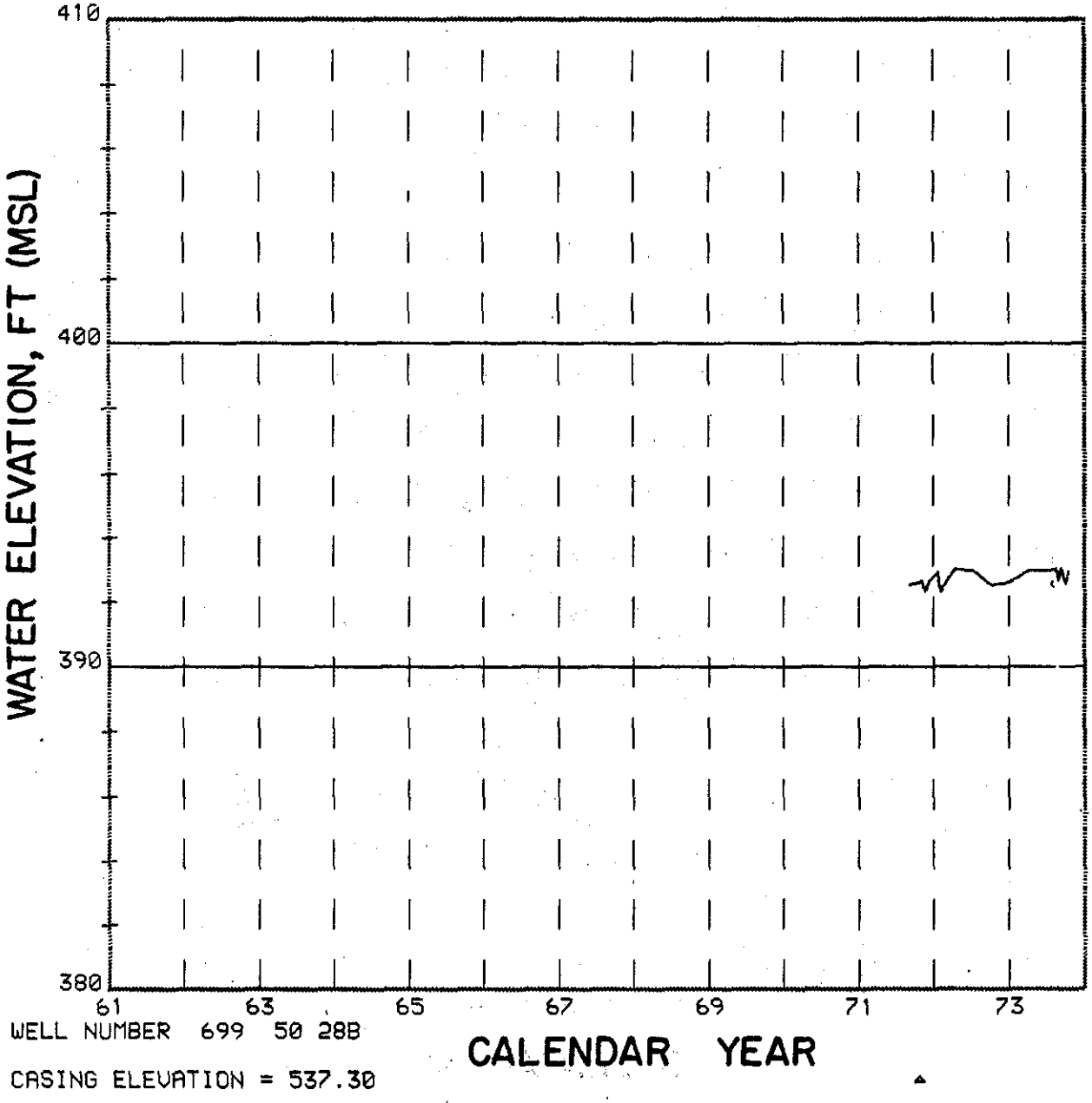

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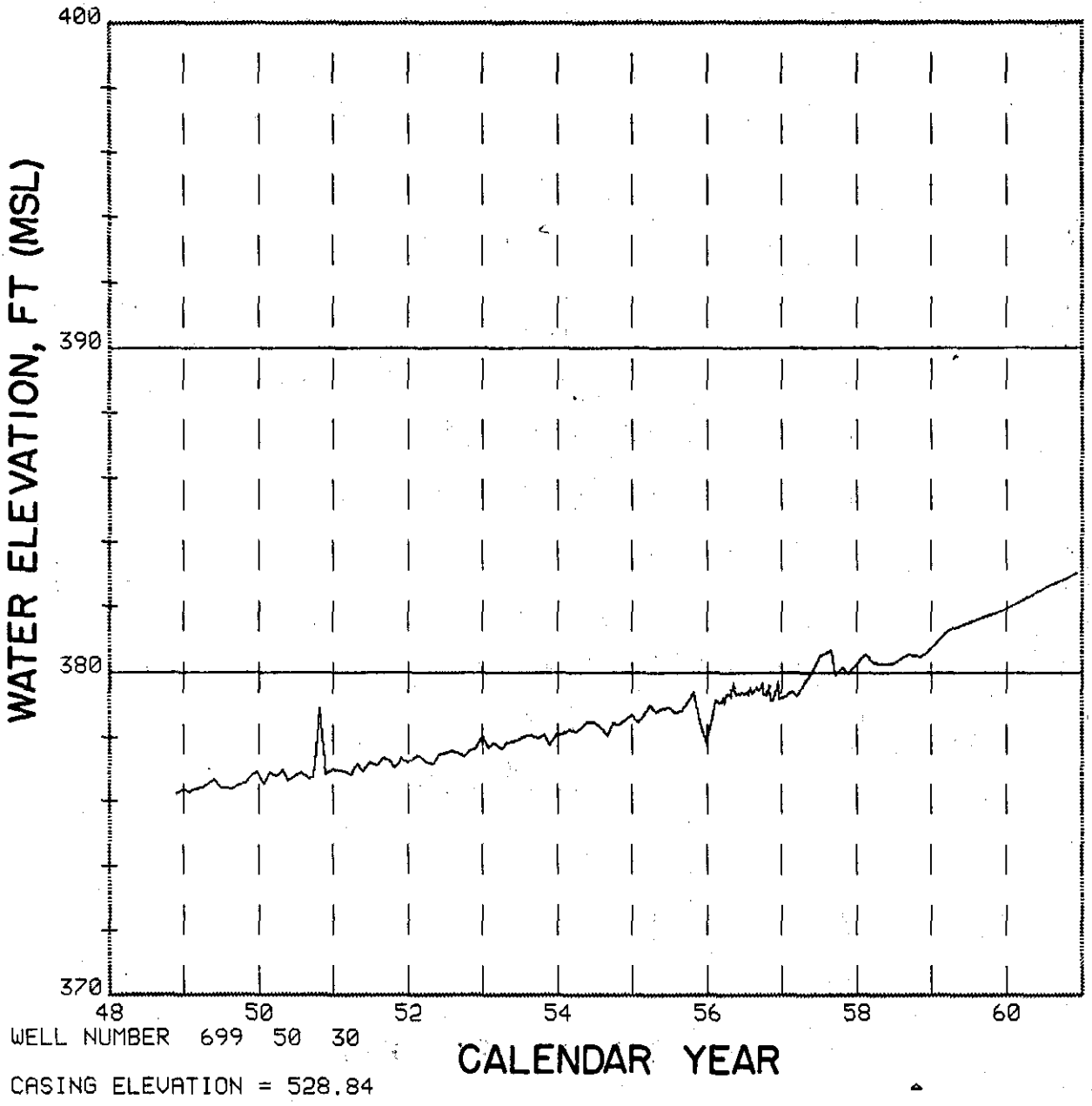

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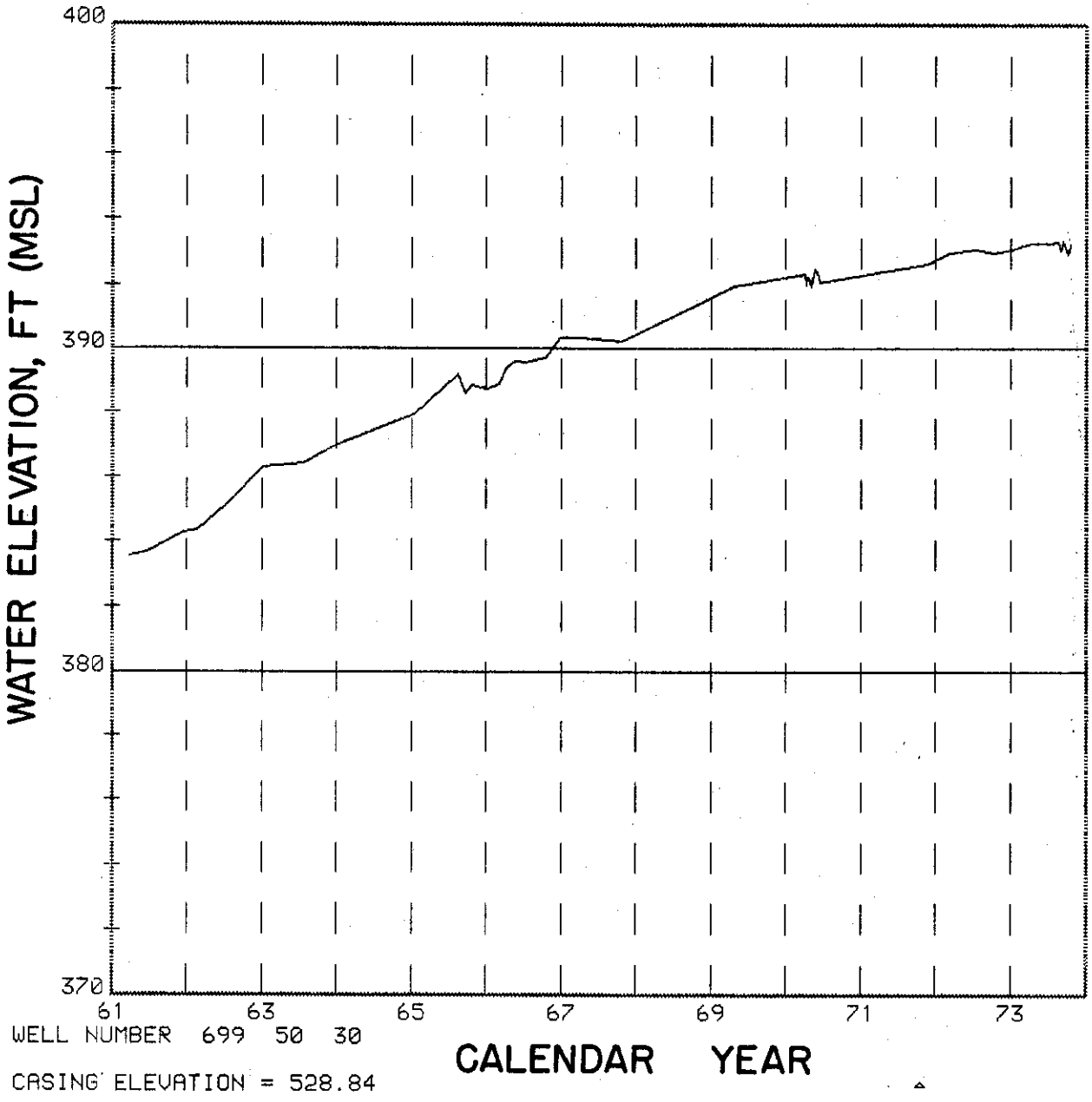

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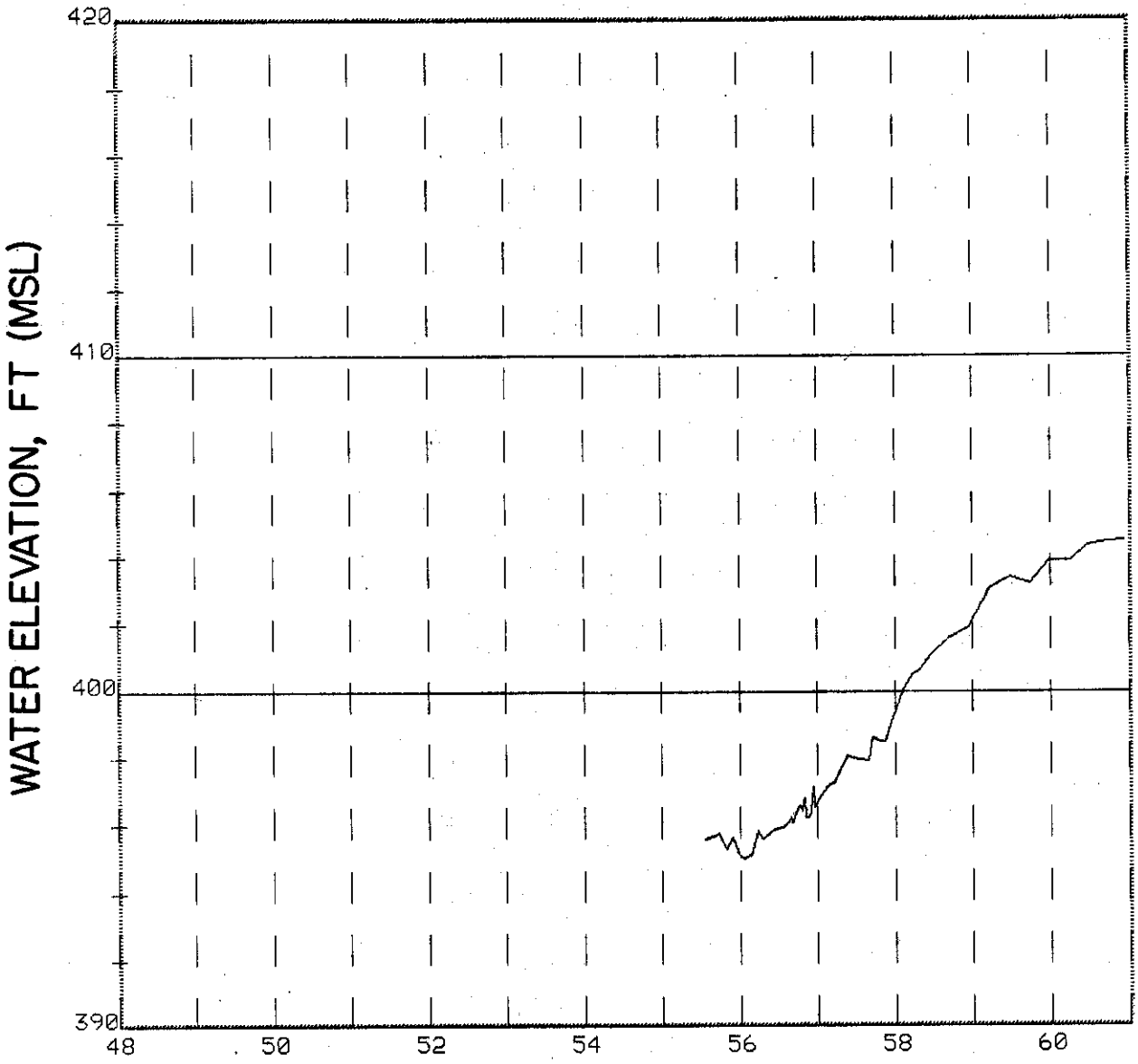

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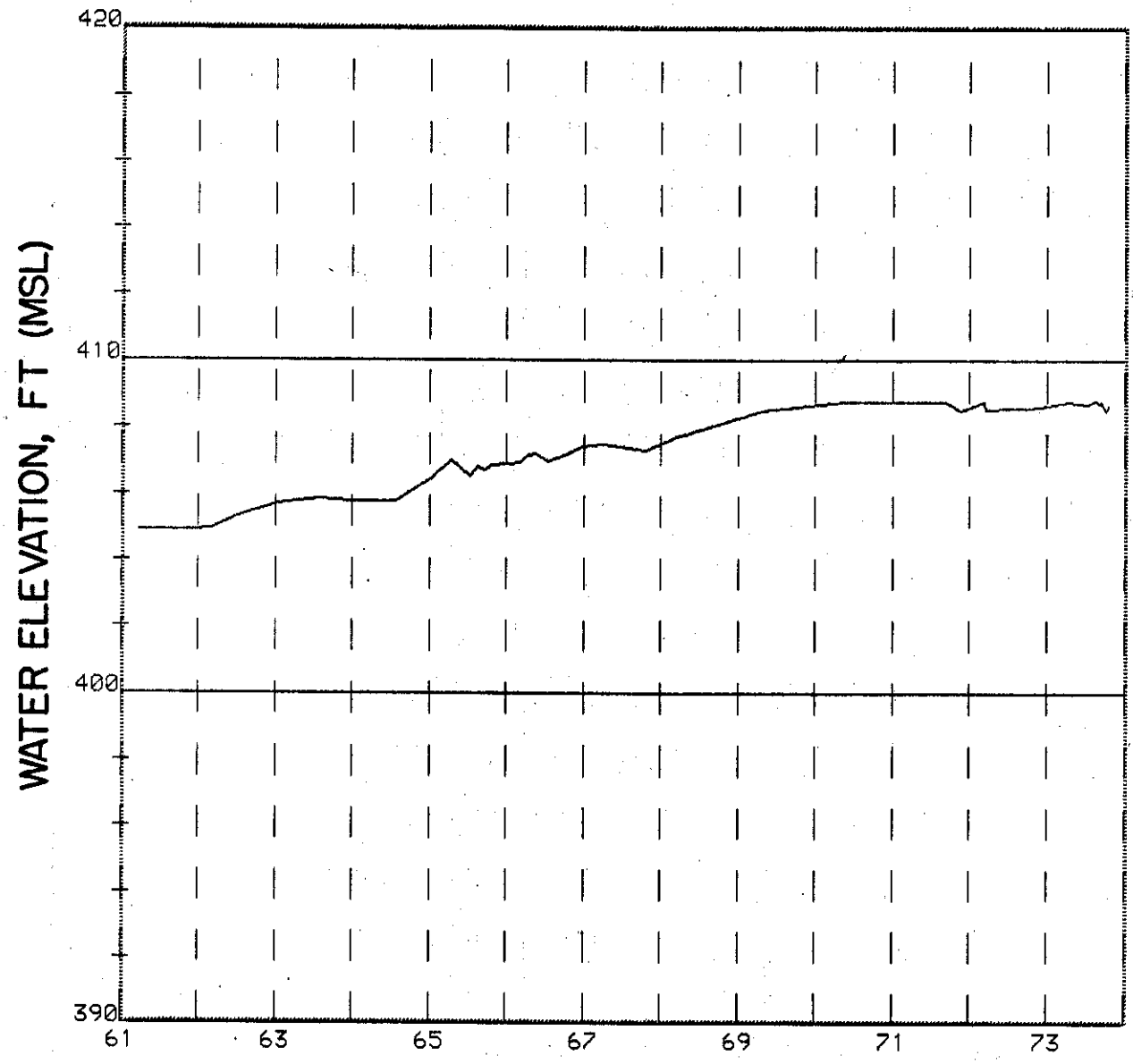

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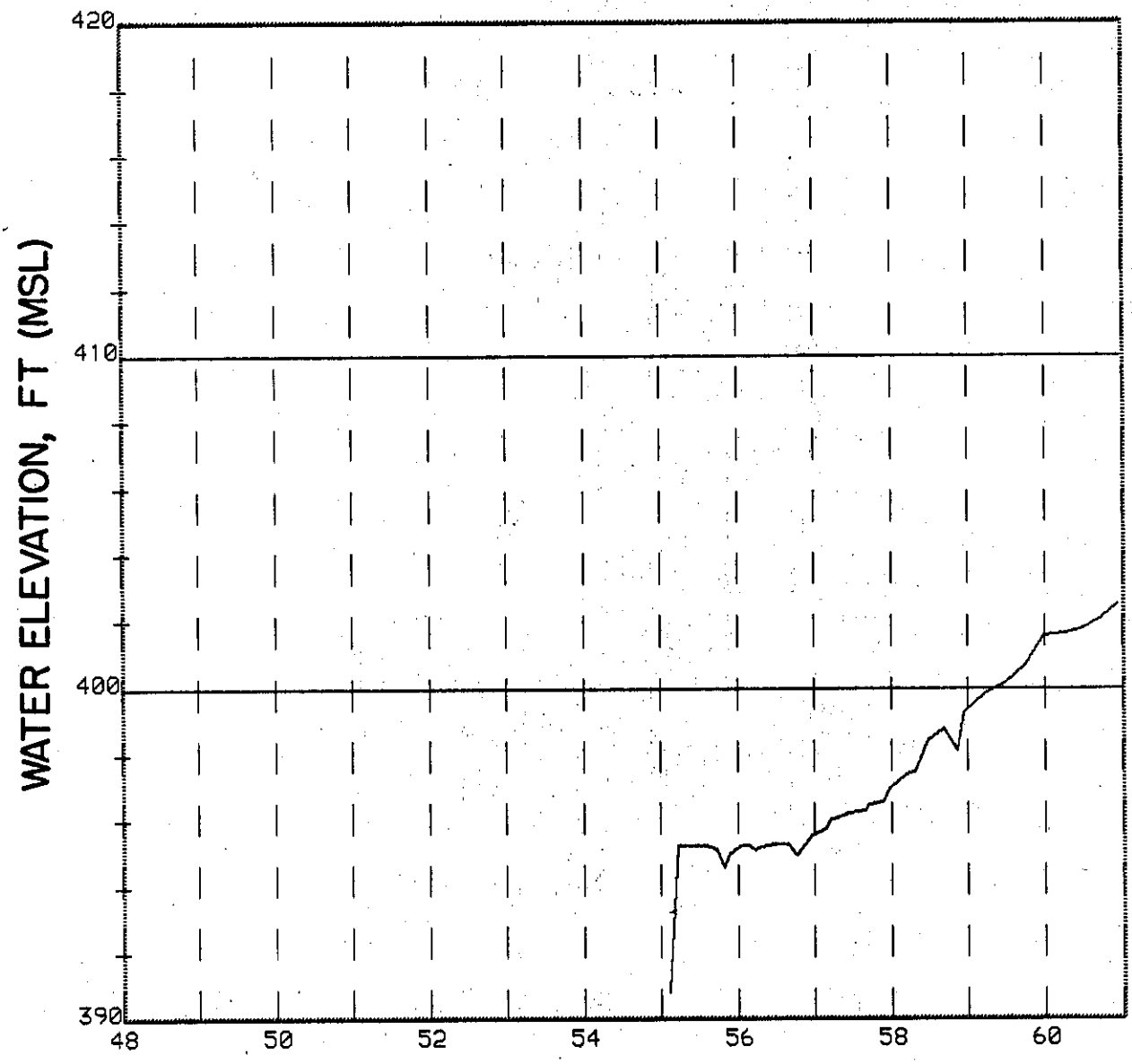

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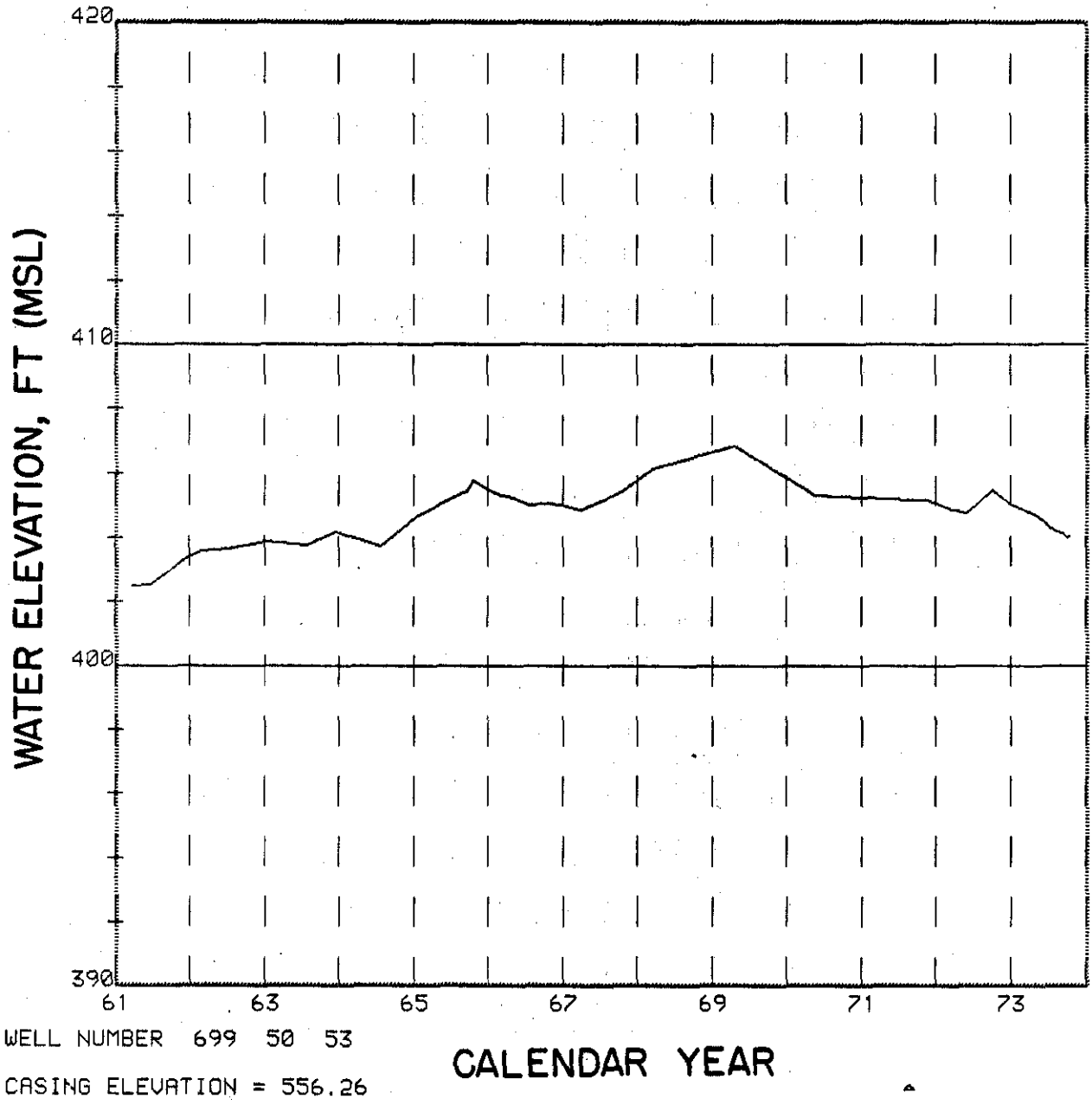

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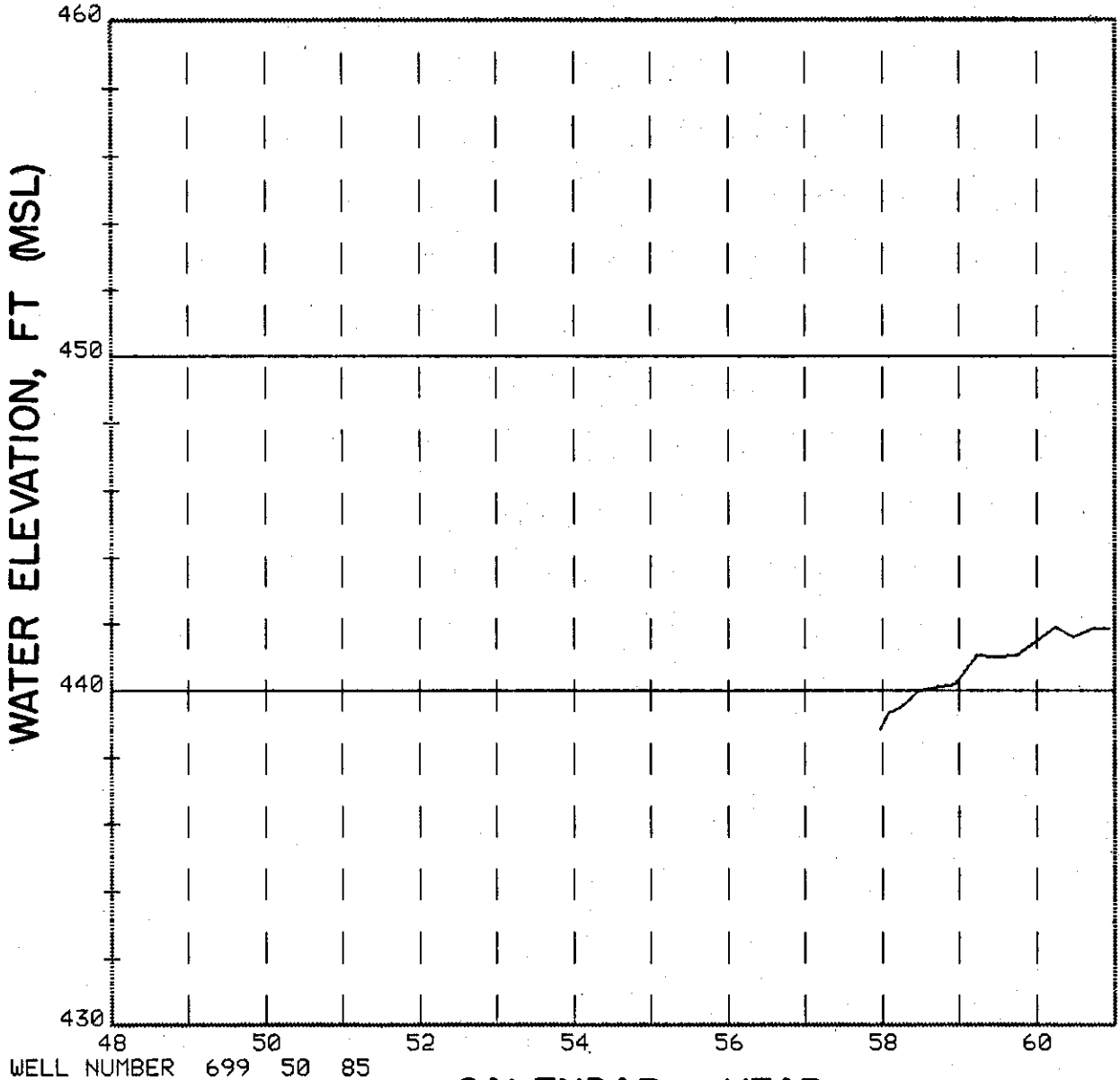

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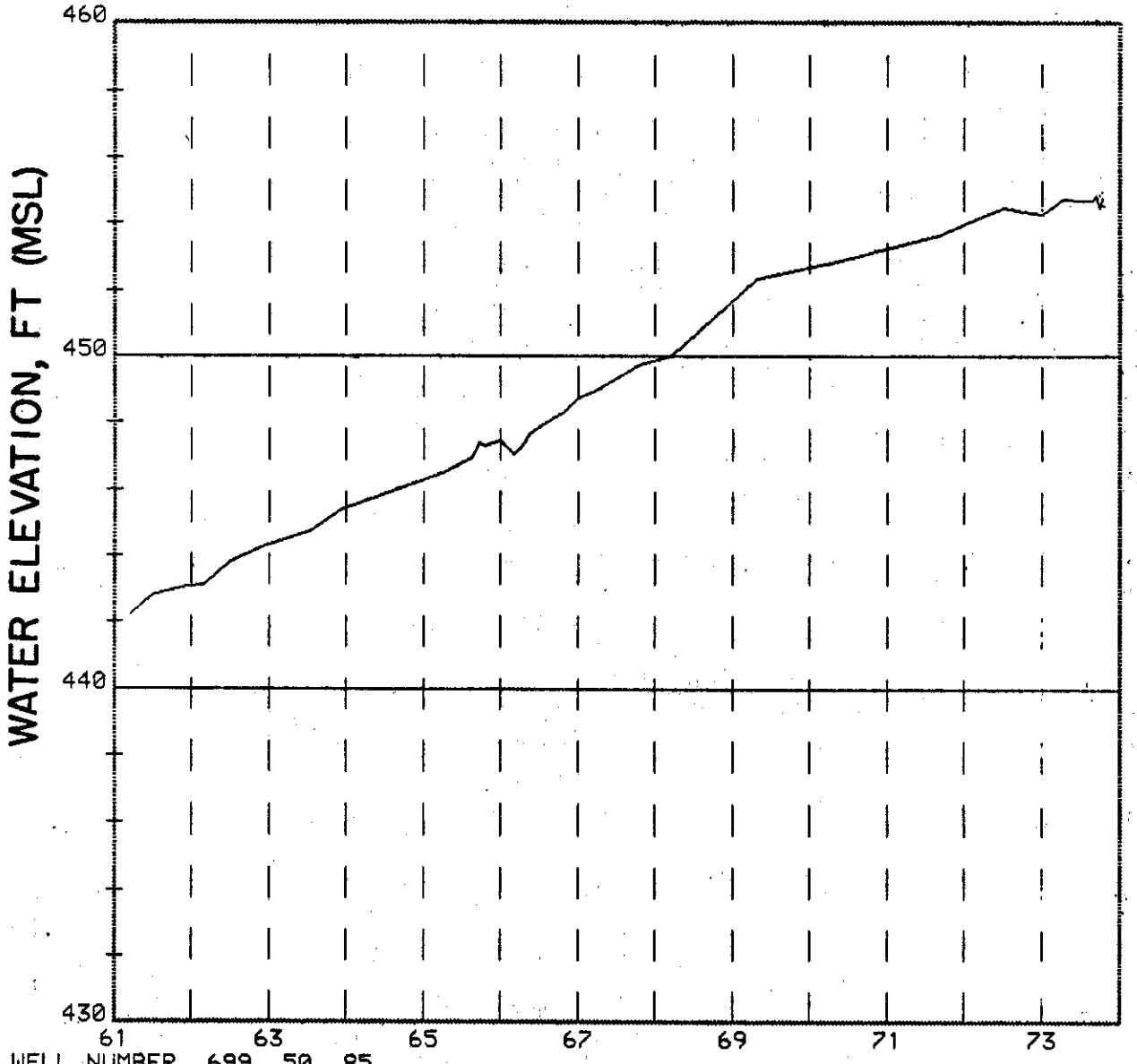

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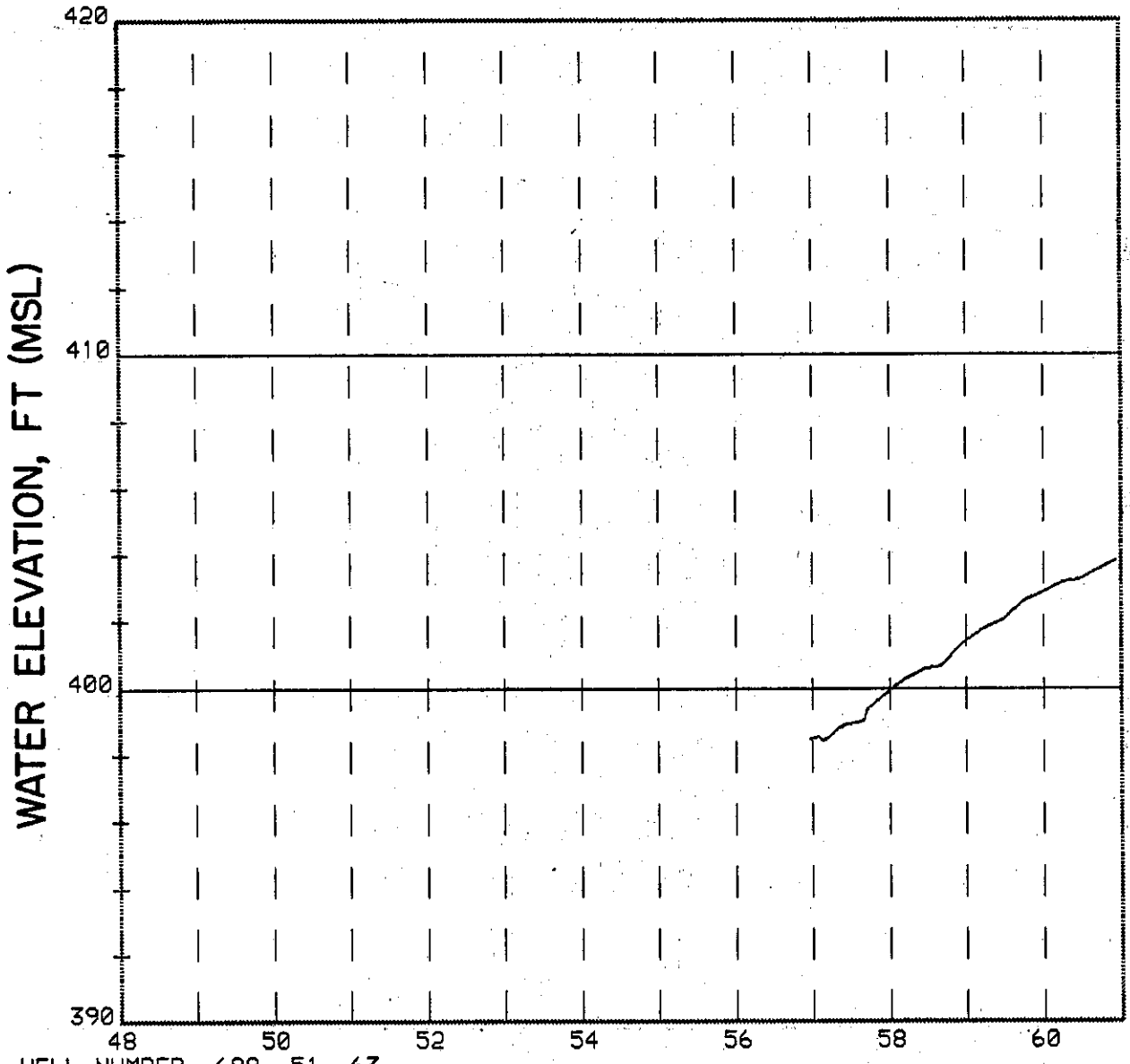

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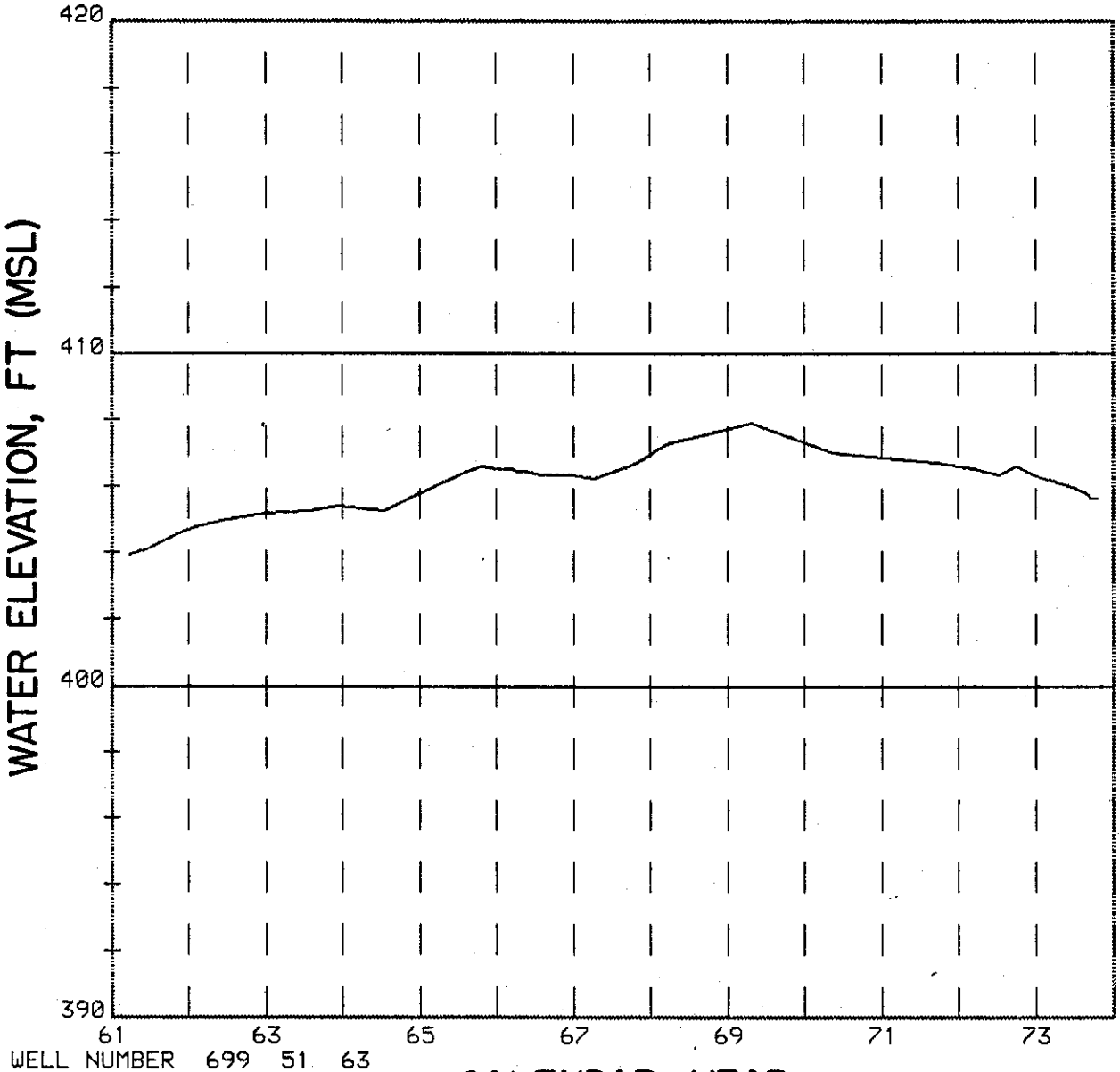

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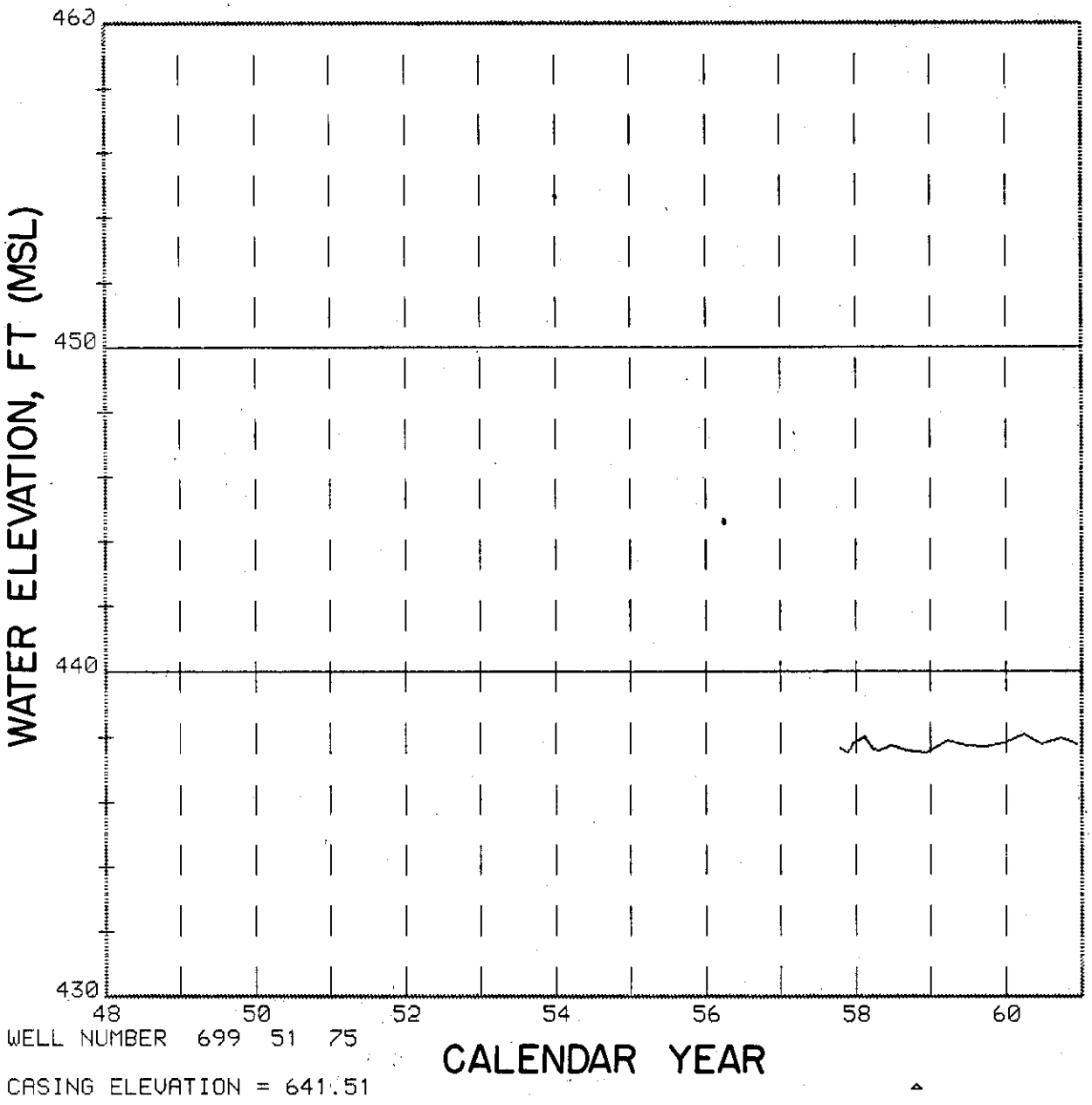
CASING ELEVATION = 571.69



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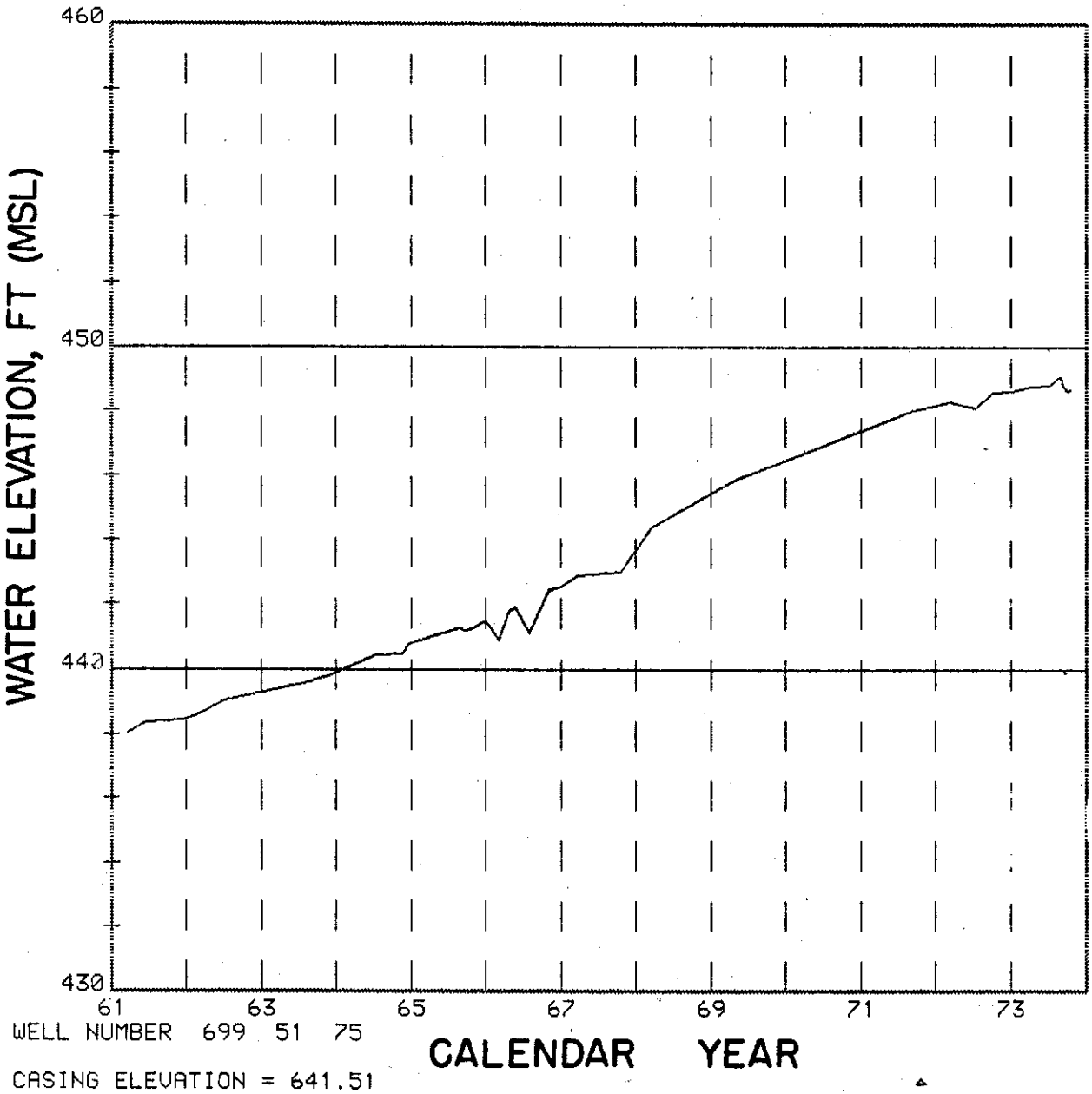

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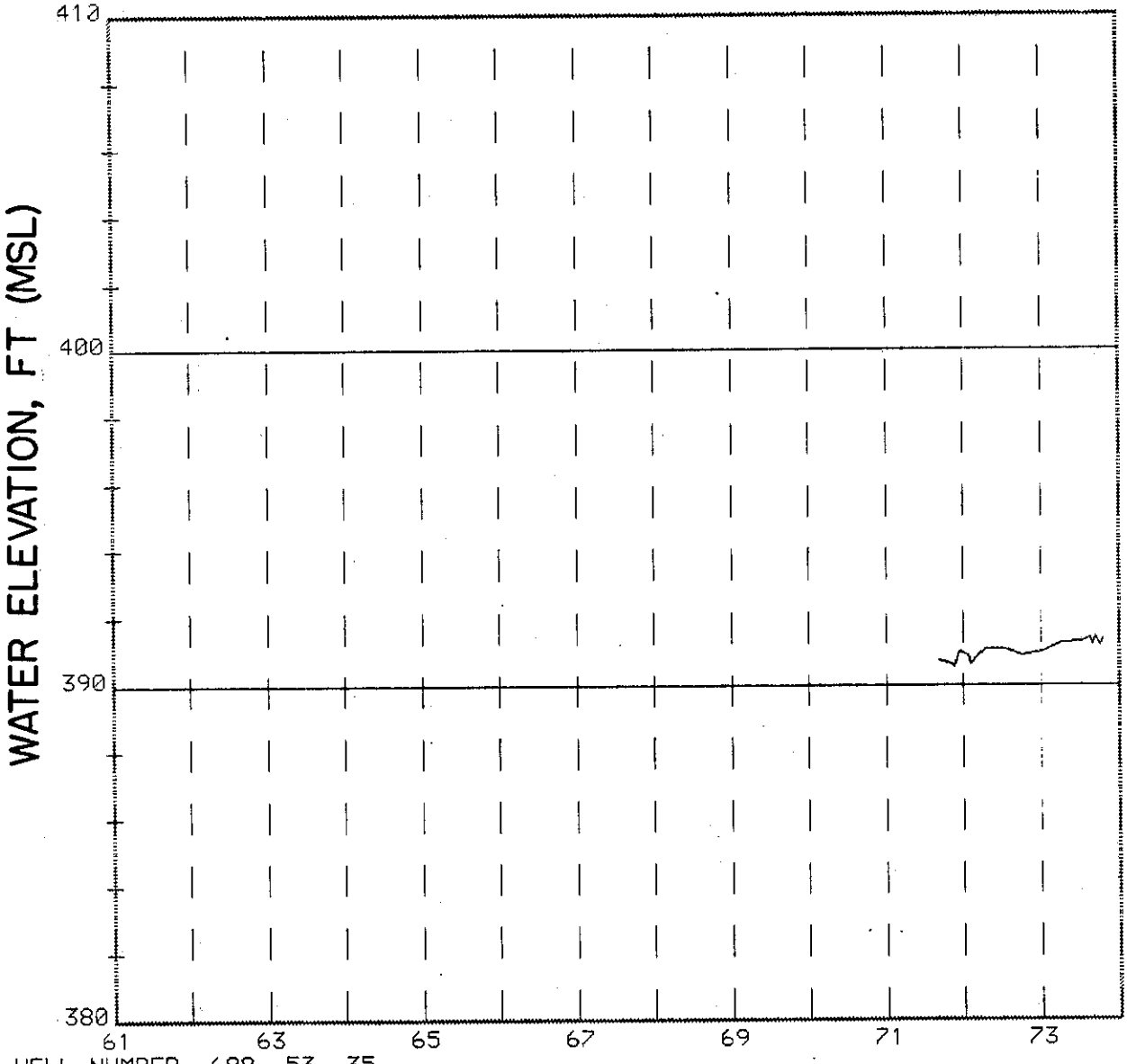

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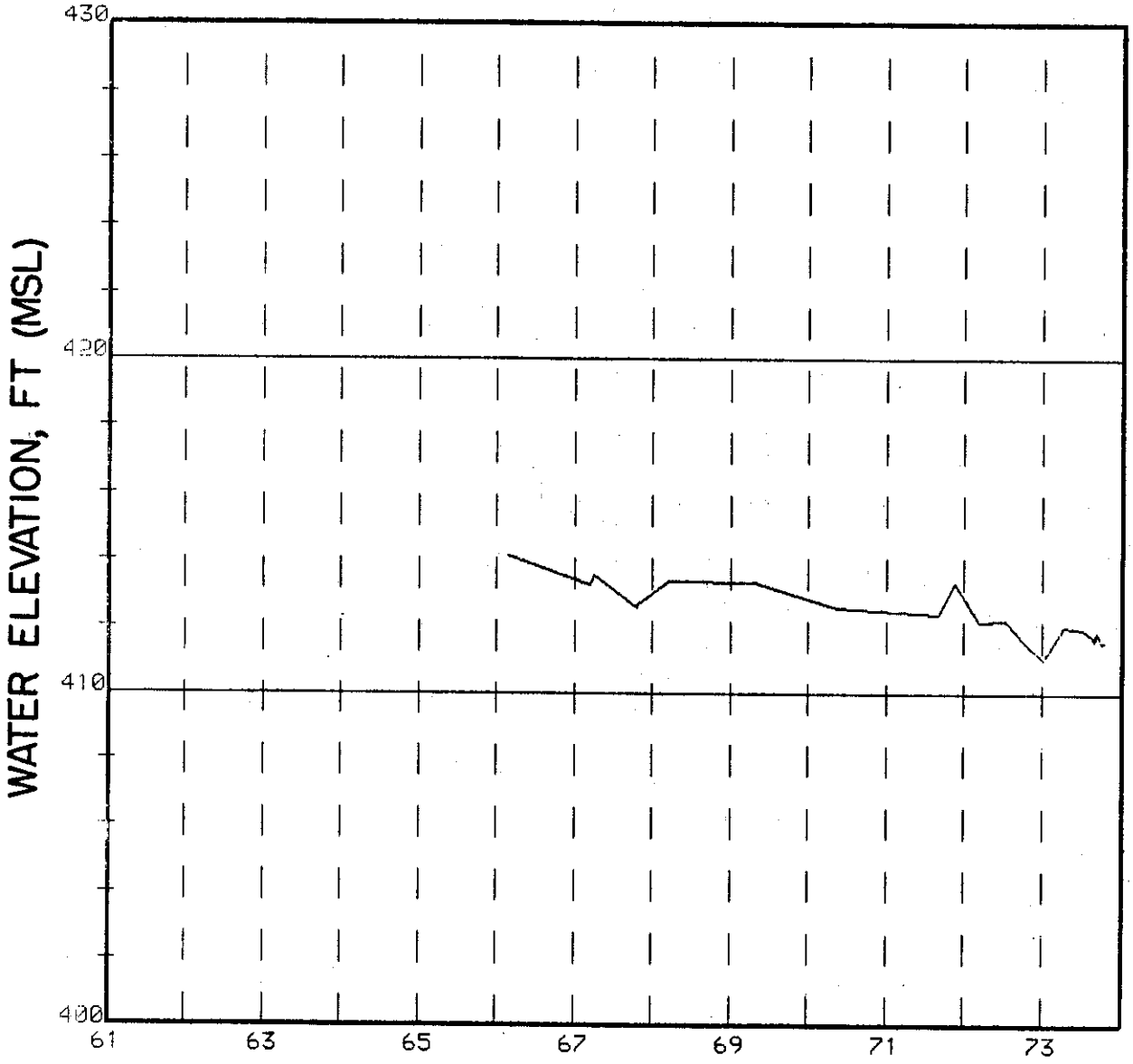

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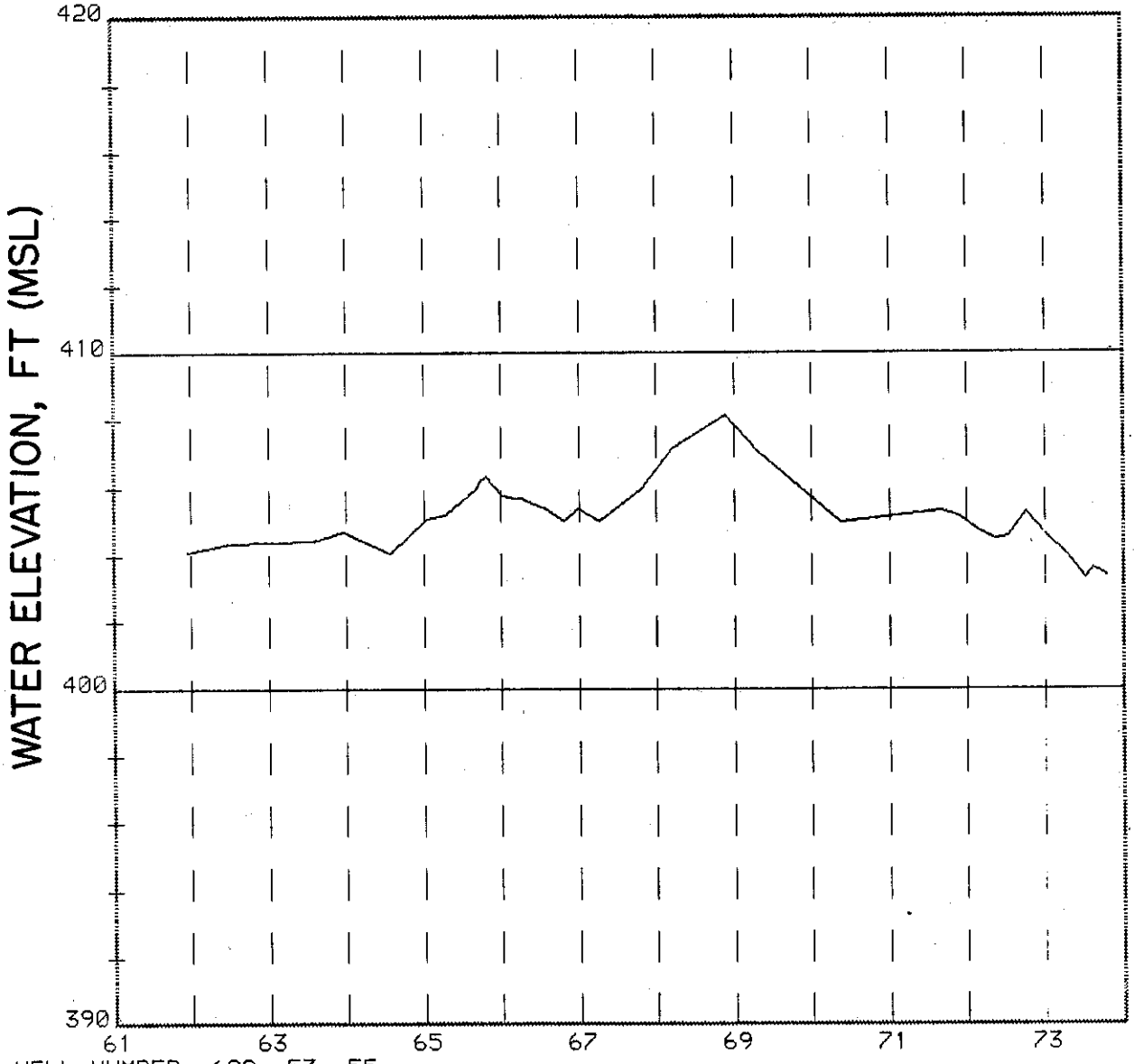

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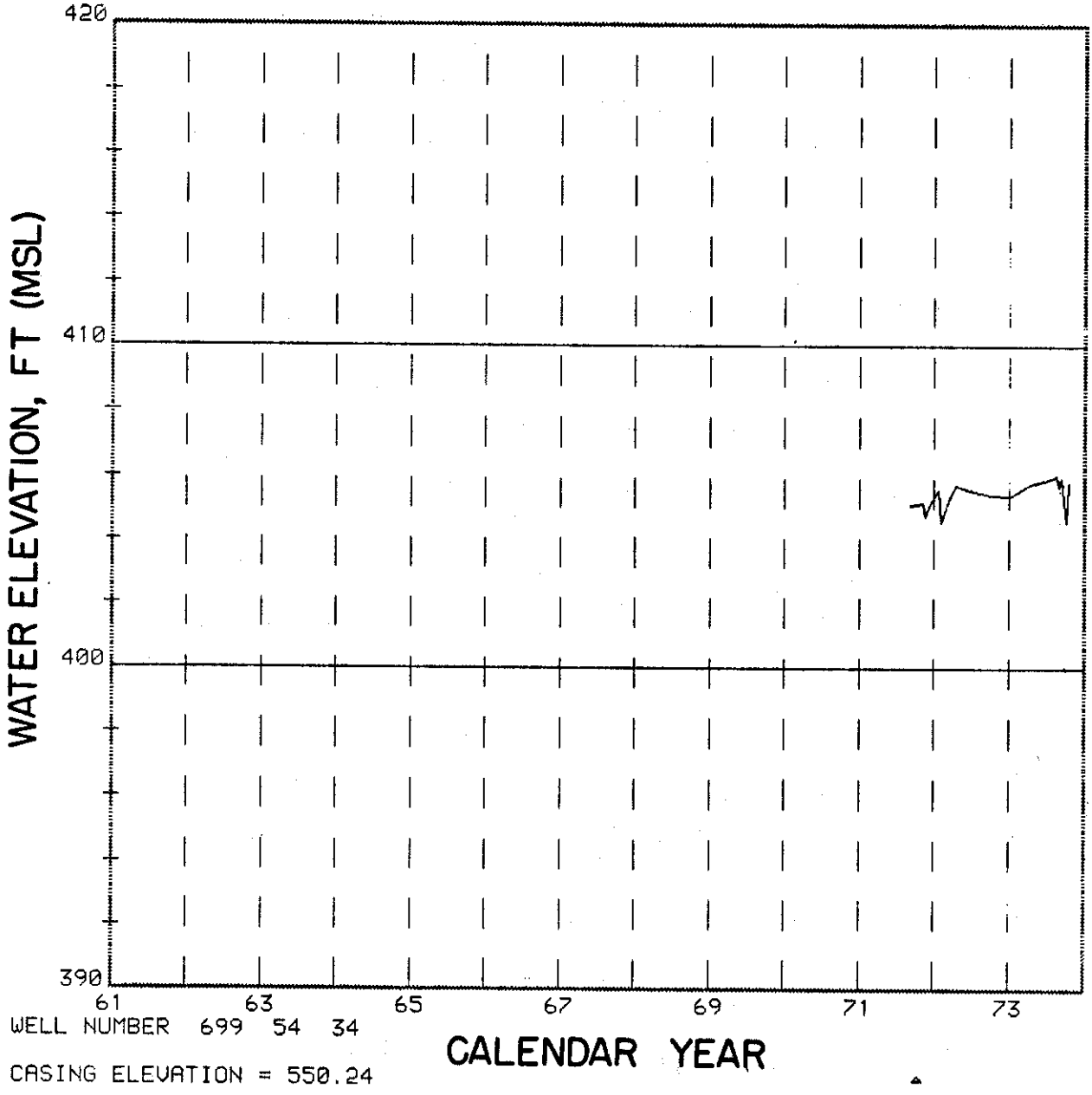
420
410
400
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WATER ELEVATION, FT (MSL)
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73
CALENDAR YEAR
WELL NUMBER 699 54 34
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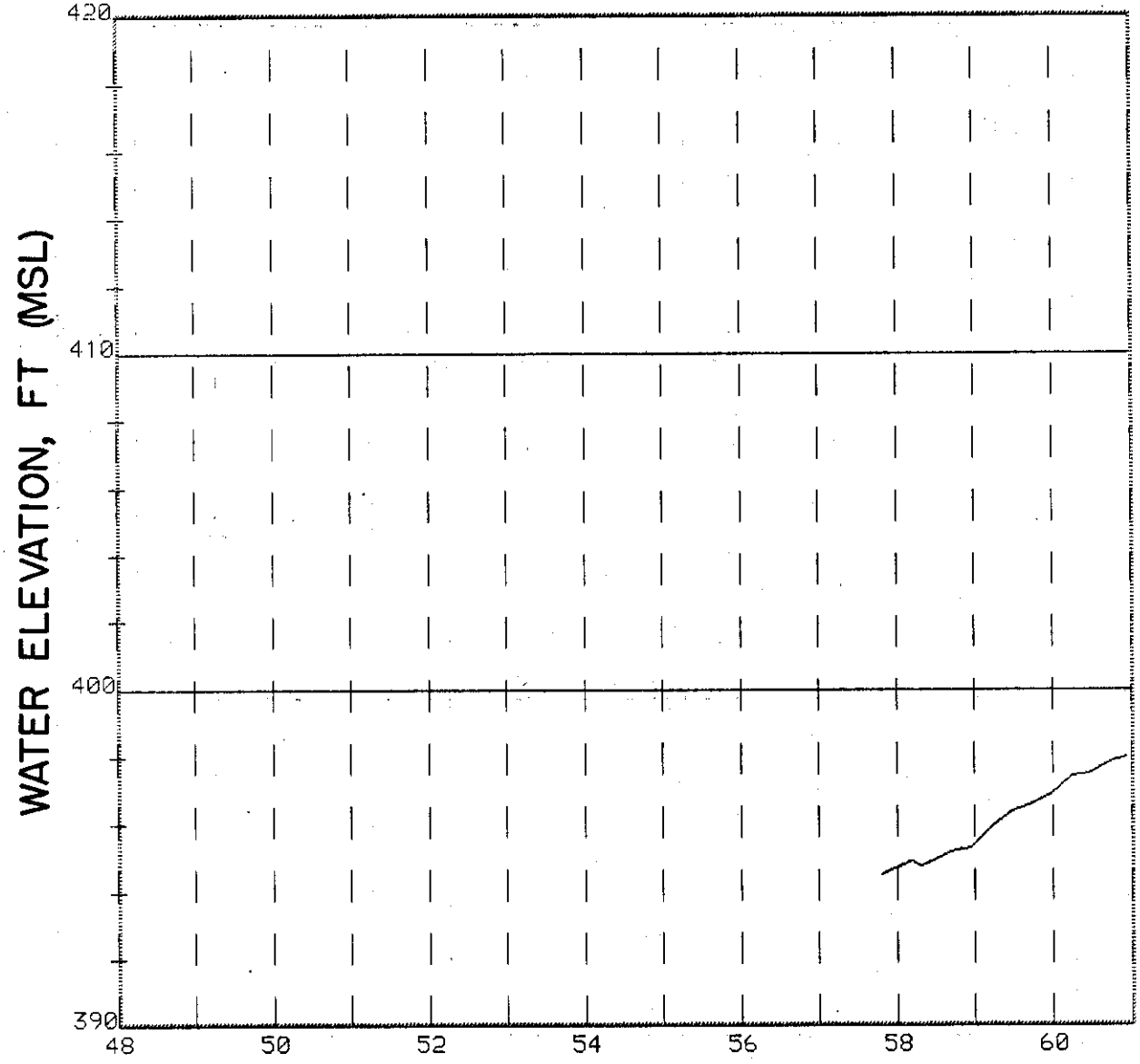

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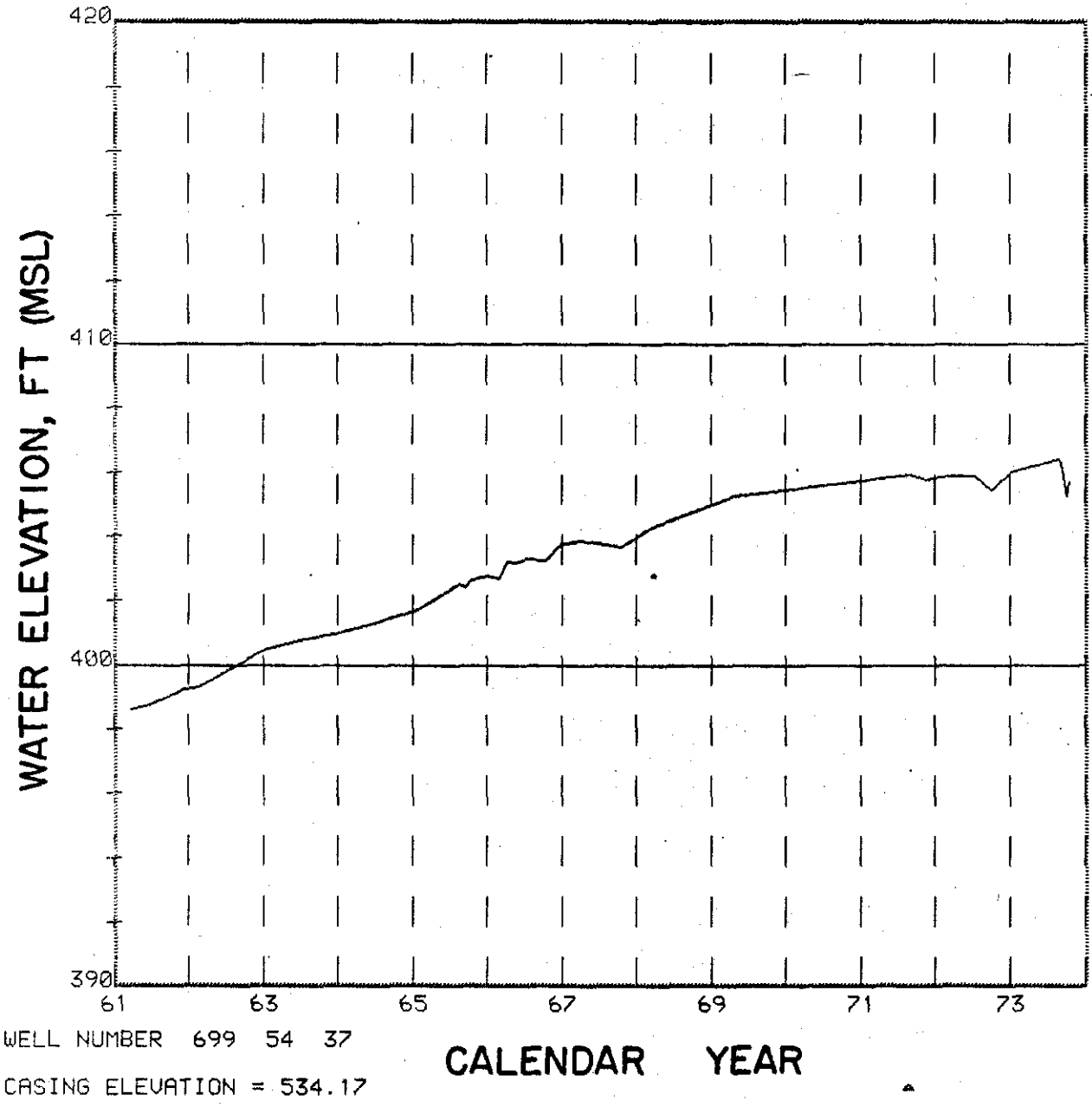

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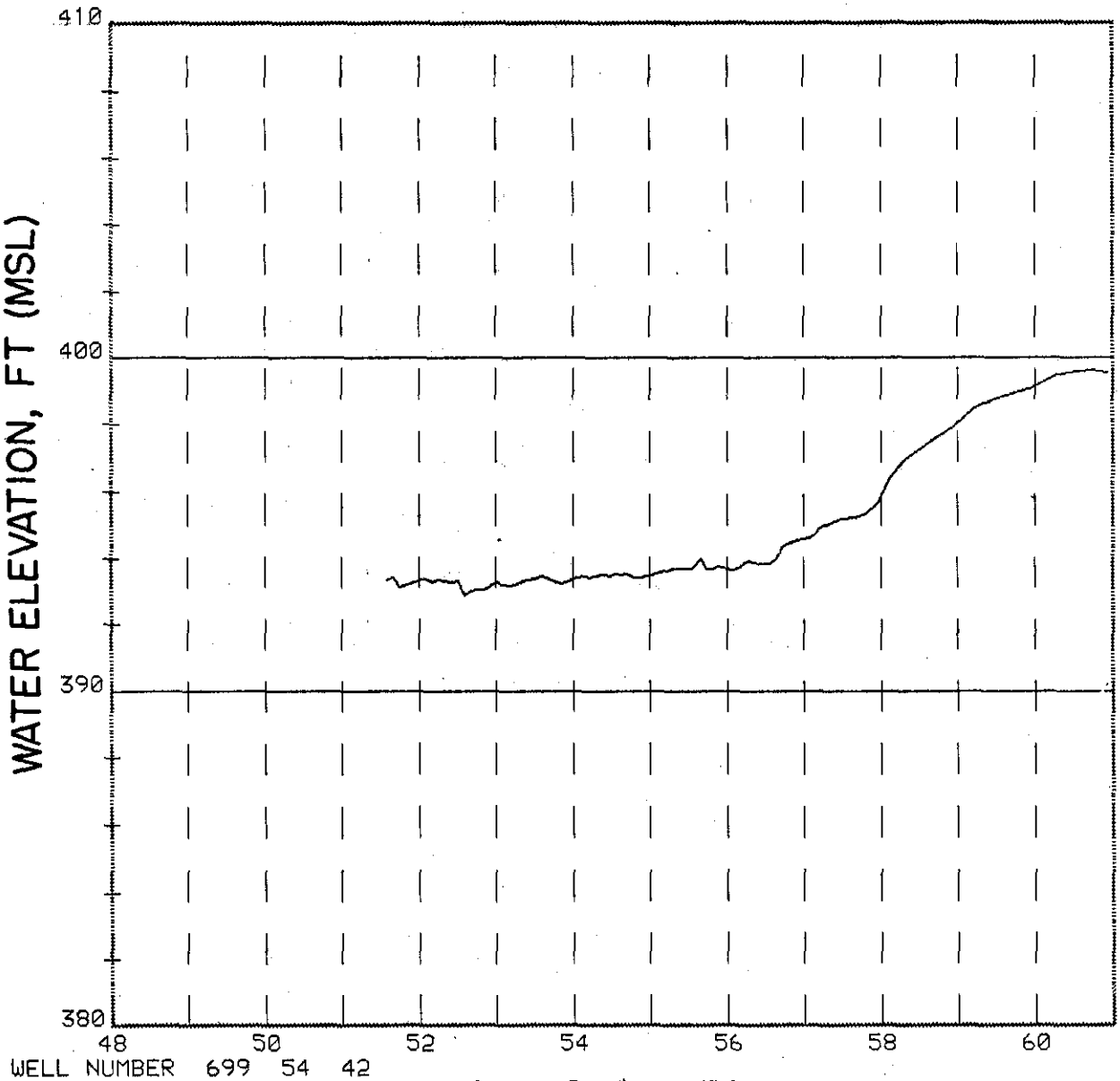

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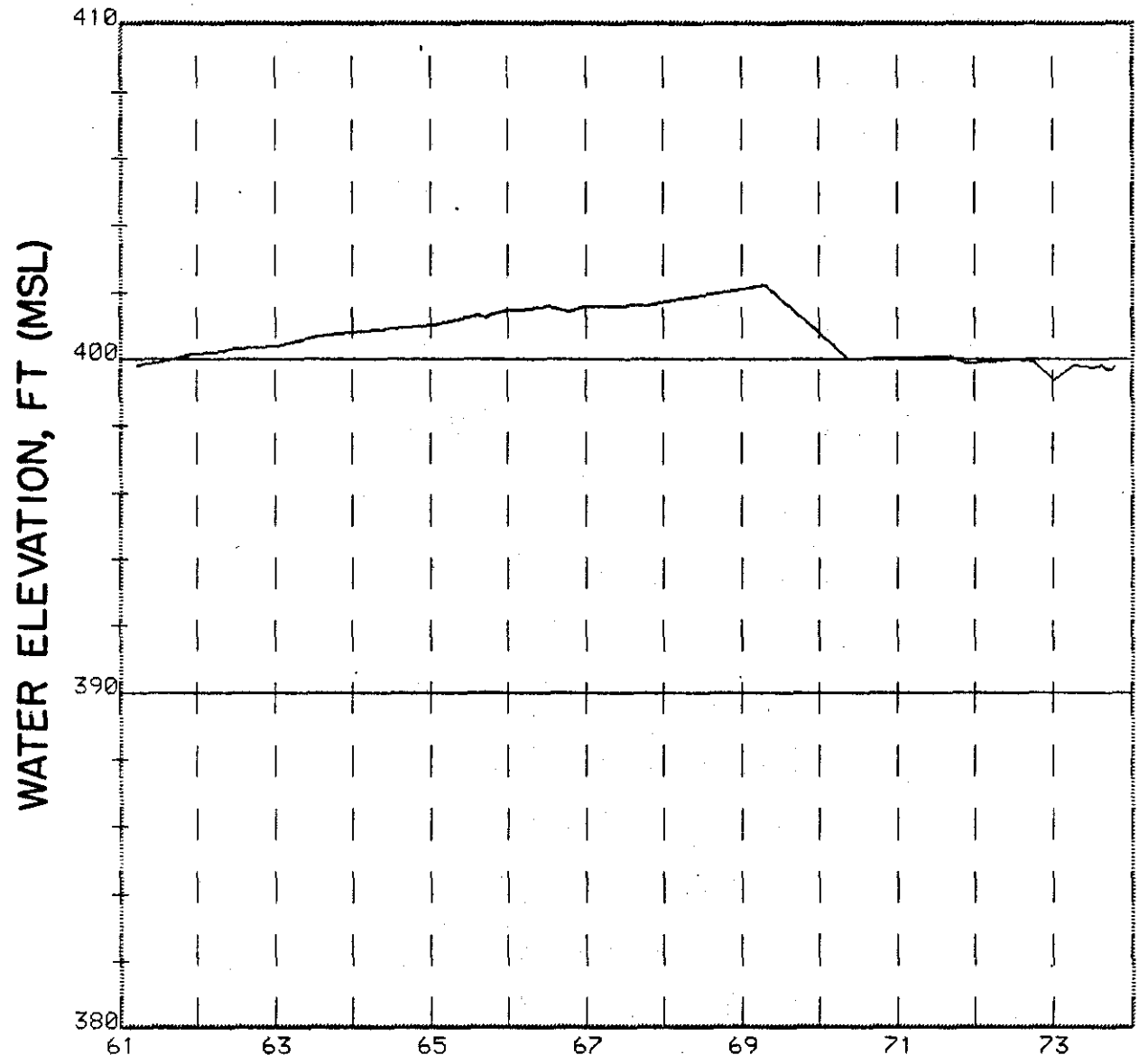

WELL NUMBER 699 54 42

CASING ELEVATION = 511.49

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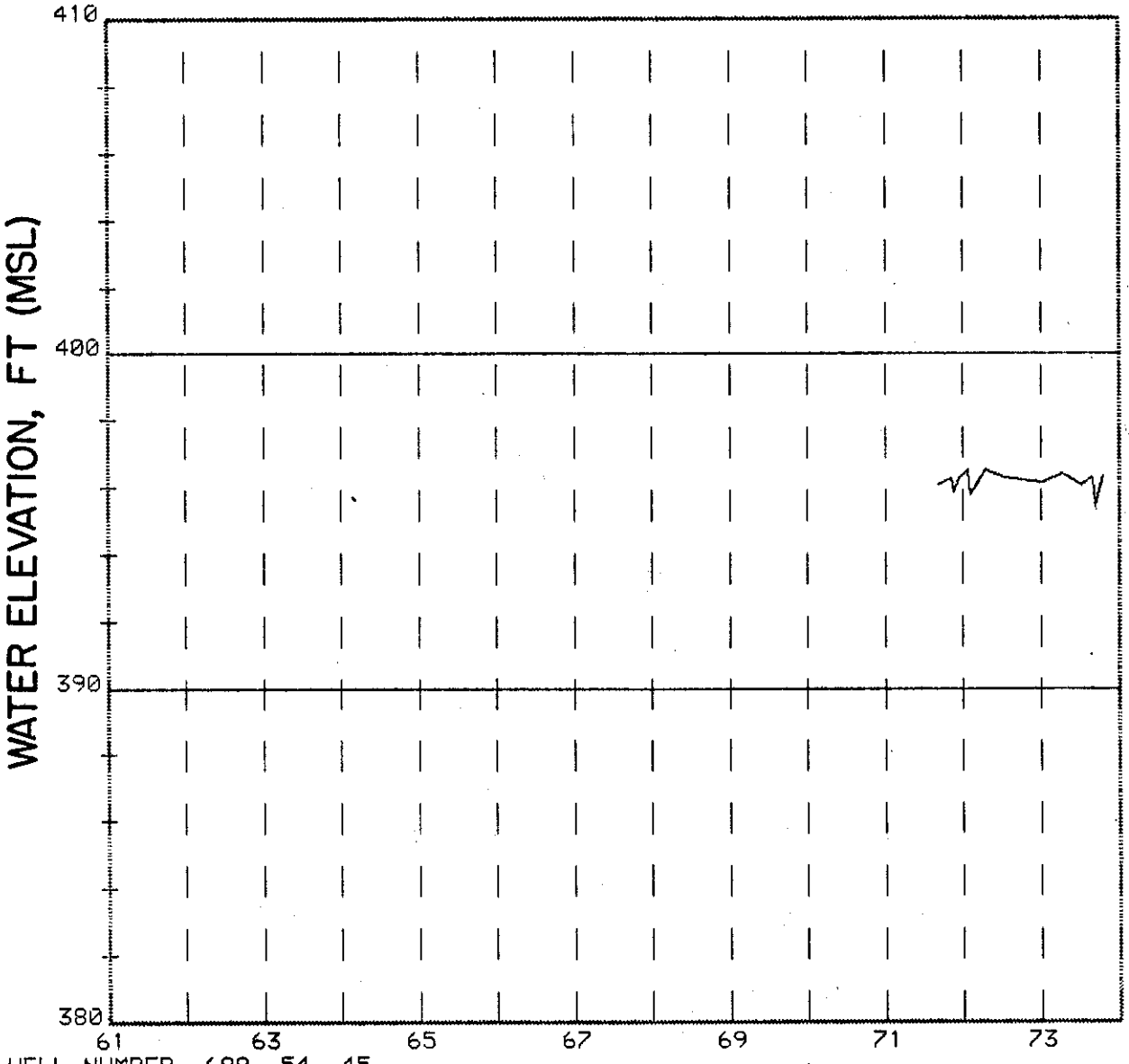

WELL NUMBER 699 54 45

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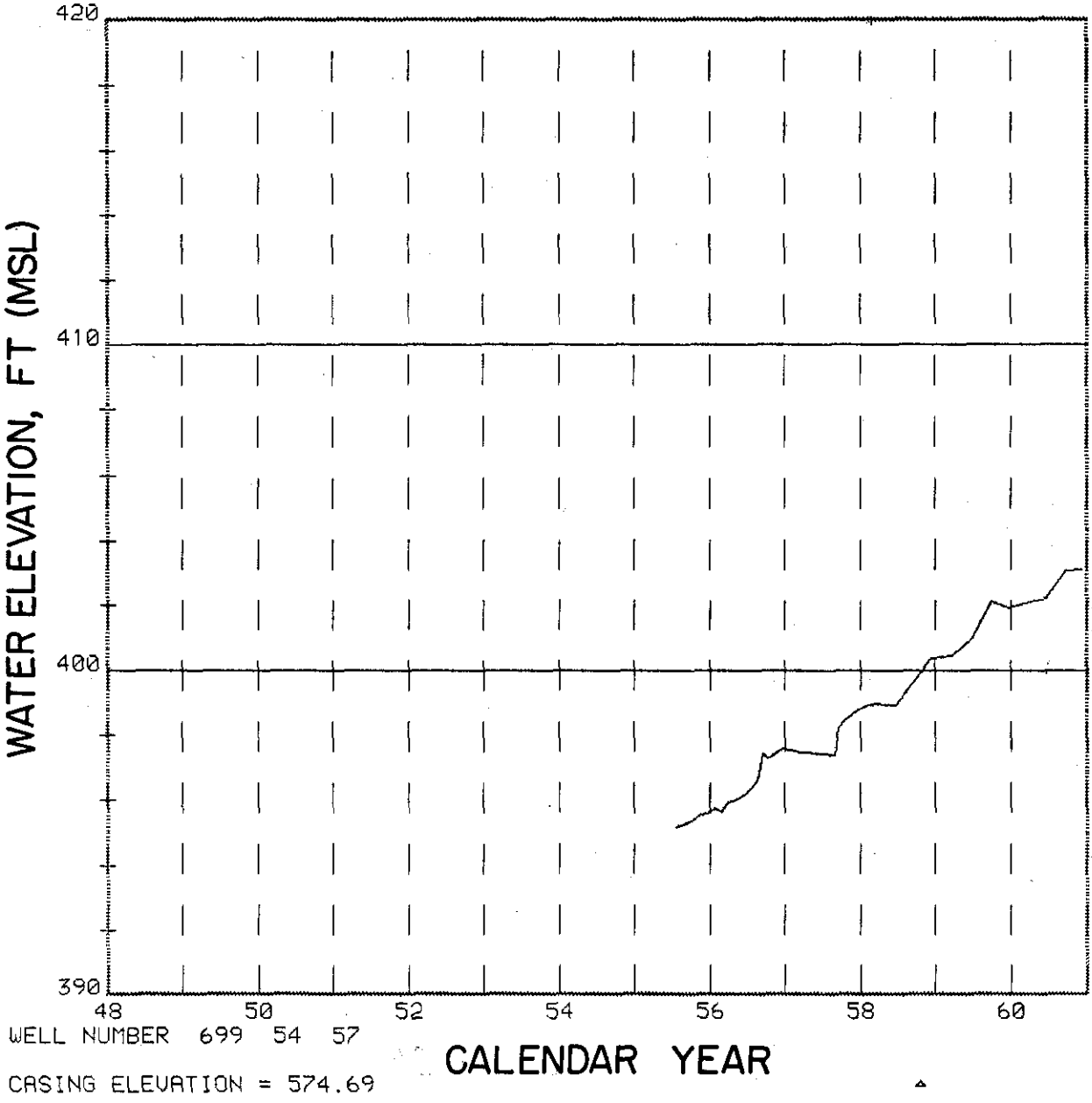

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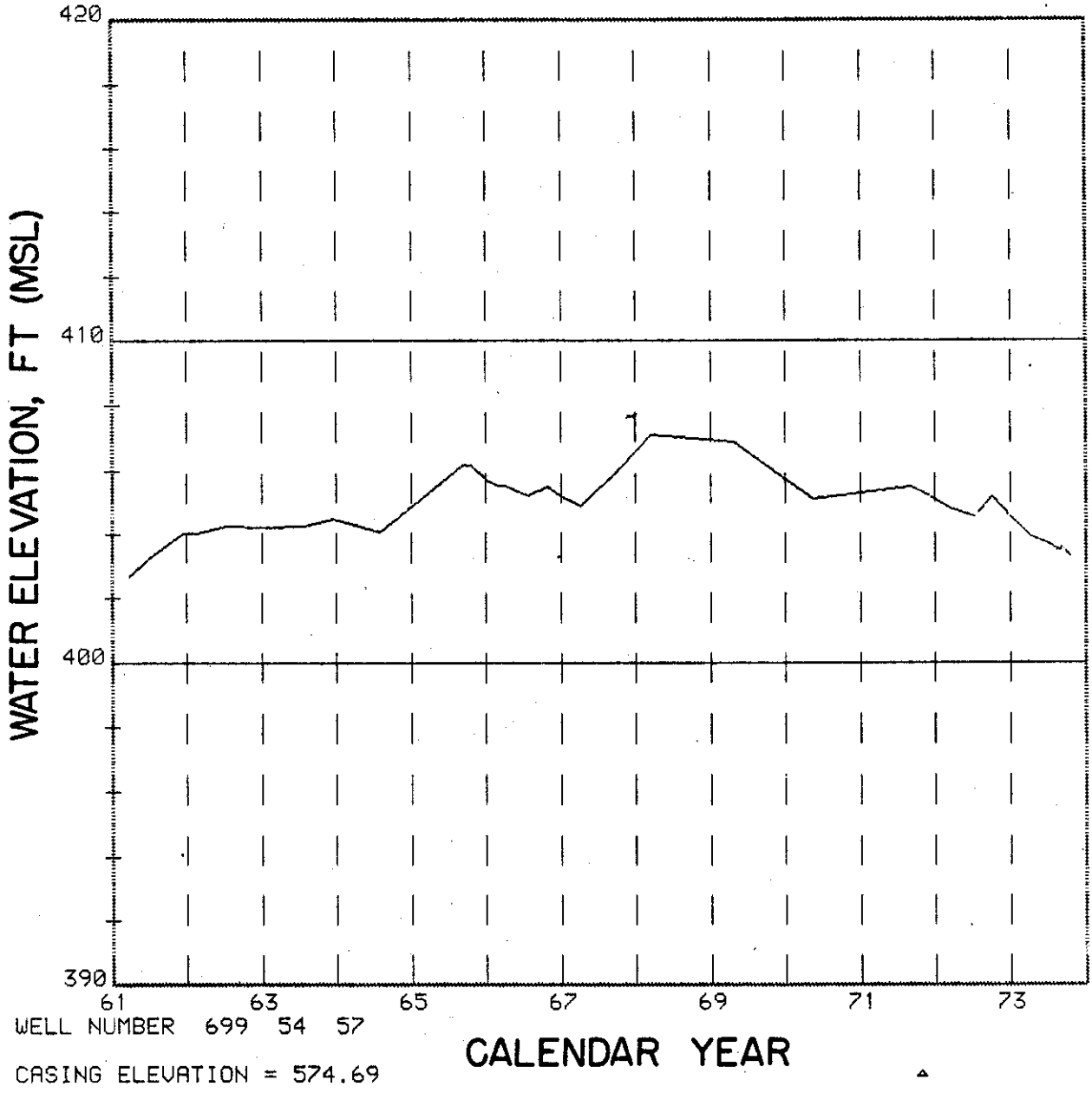
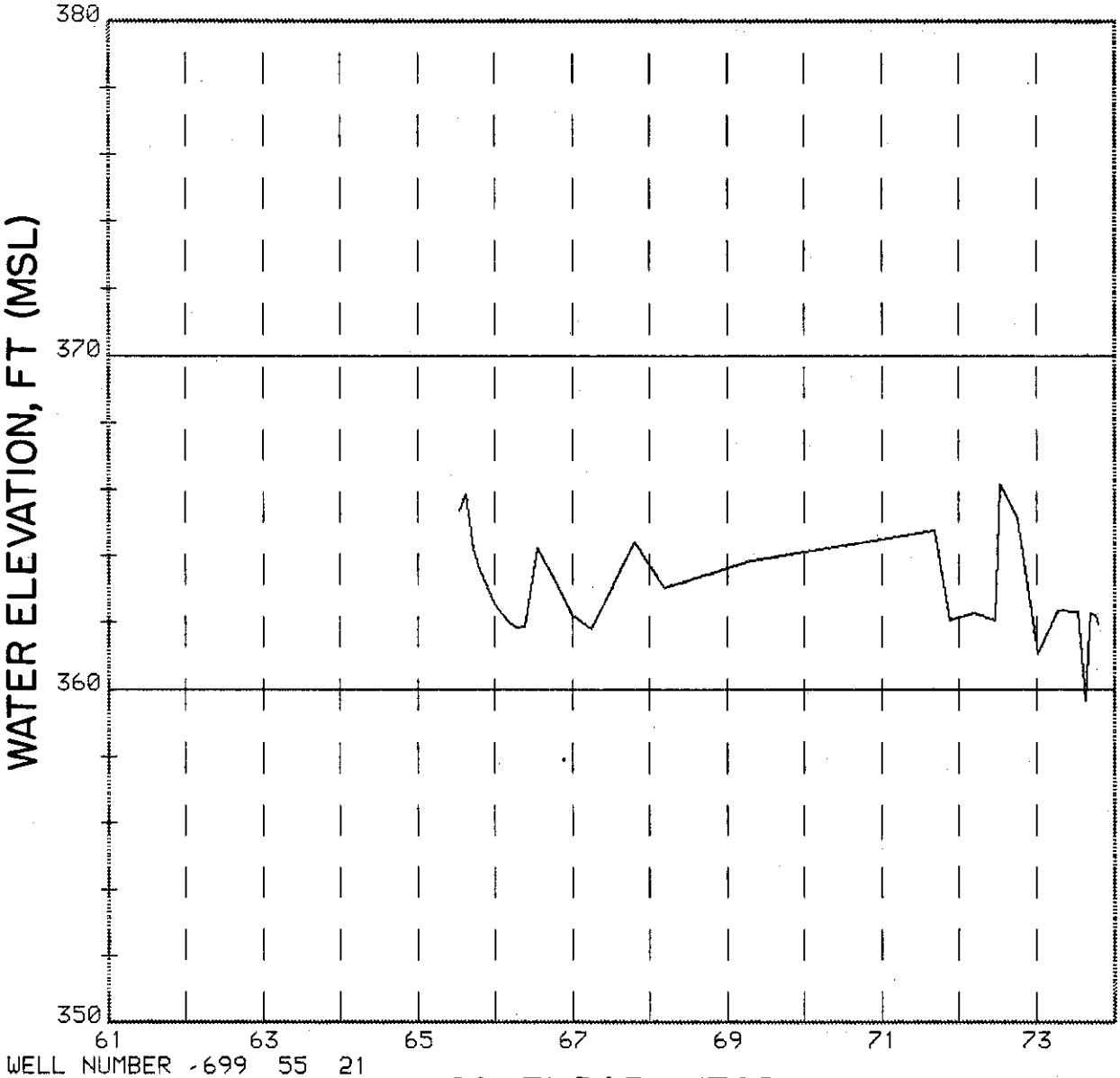

420
410
400
390
WATER ELEVATION, FT (MSL)
61
63
65
67
69
71
73
CALENDAR YEAR
WELL NUMBER 699 54 57
CASING ELEVATION = 574.69



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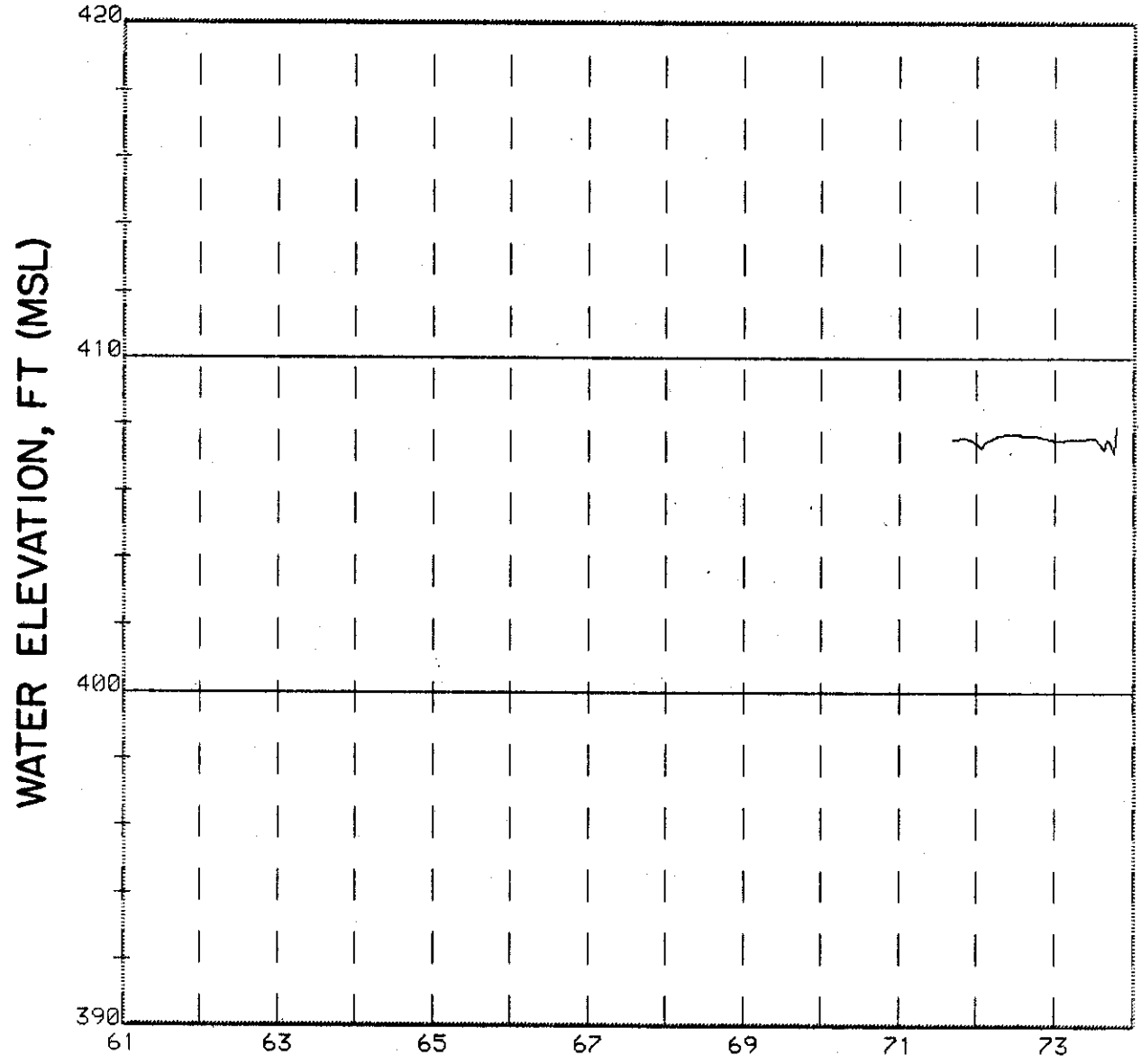

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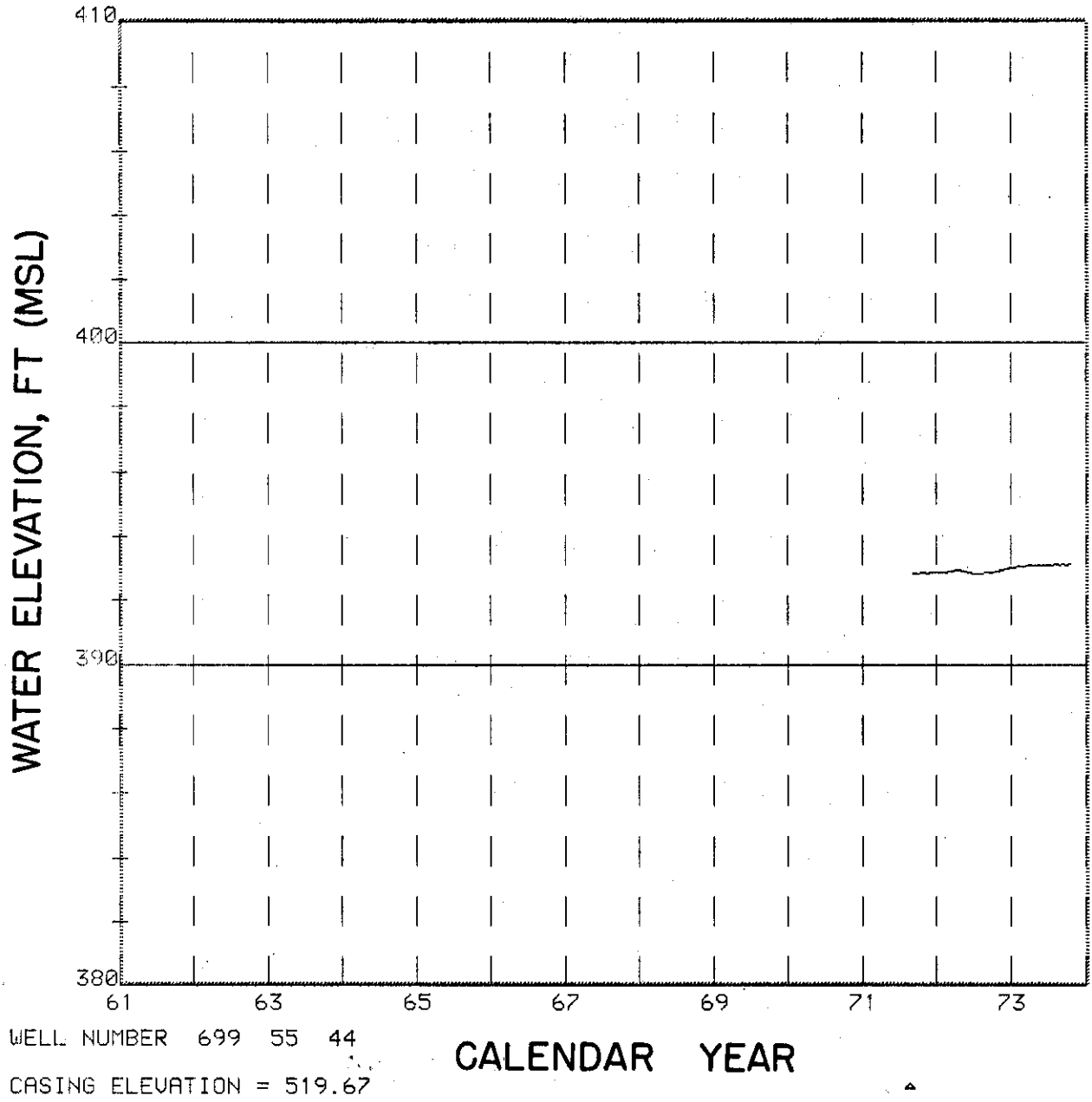

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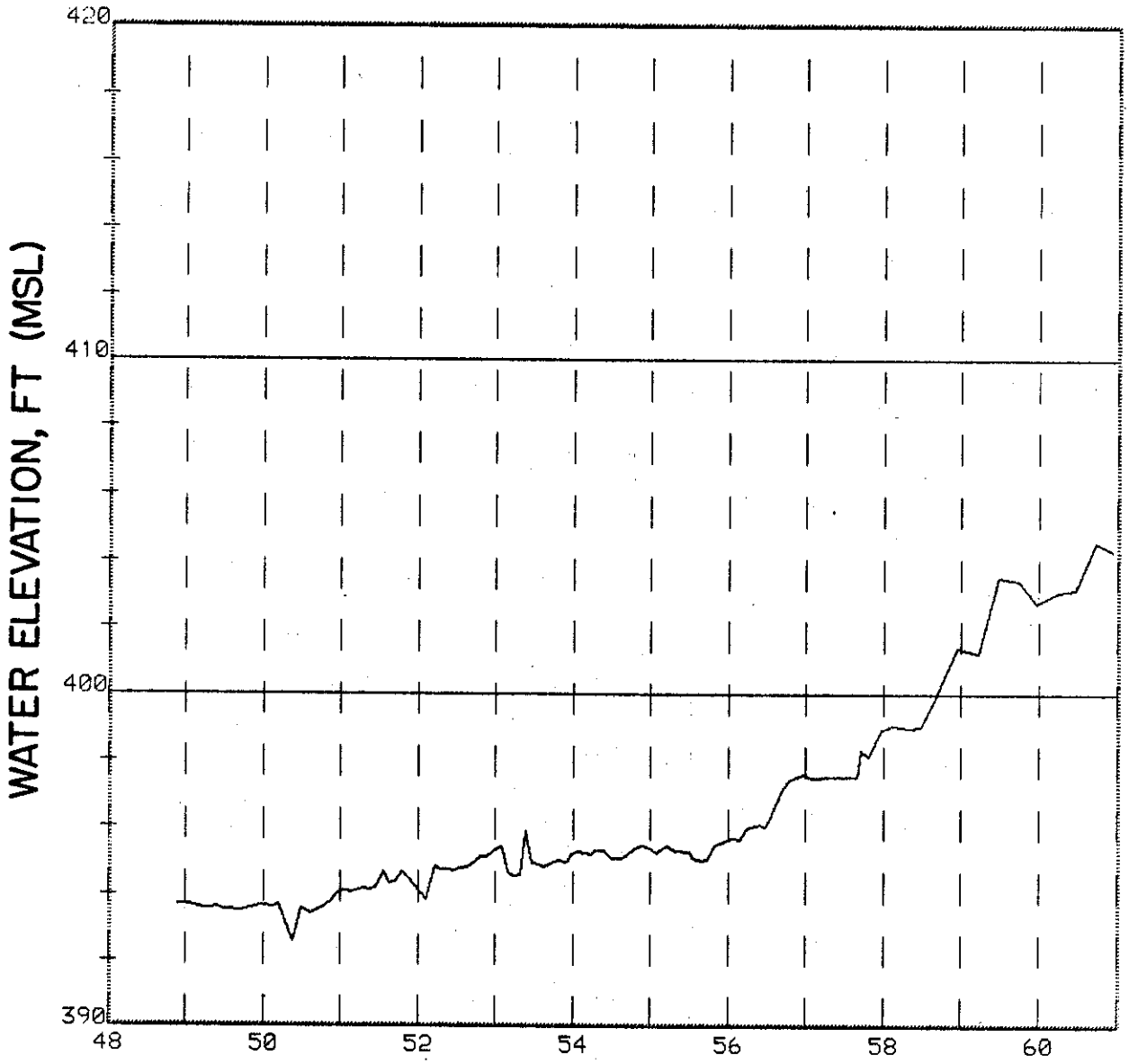

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CASING ELEVATION = 442.81

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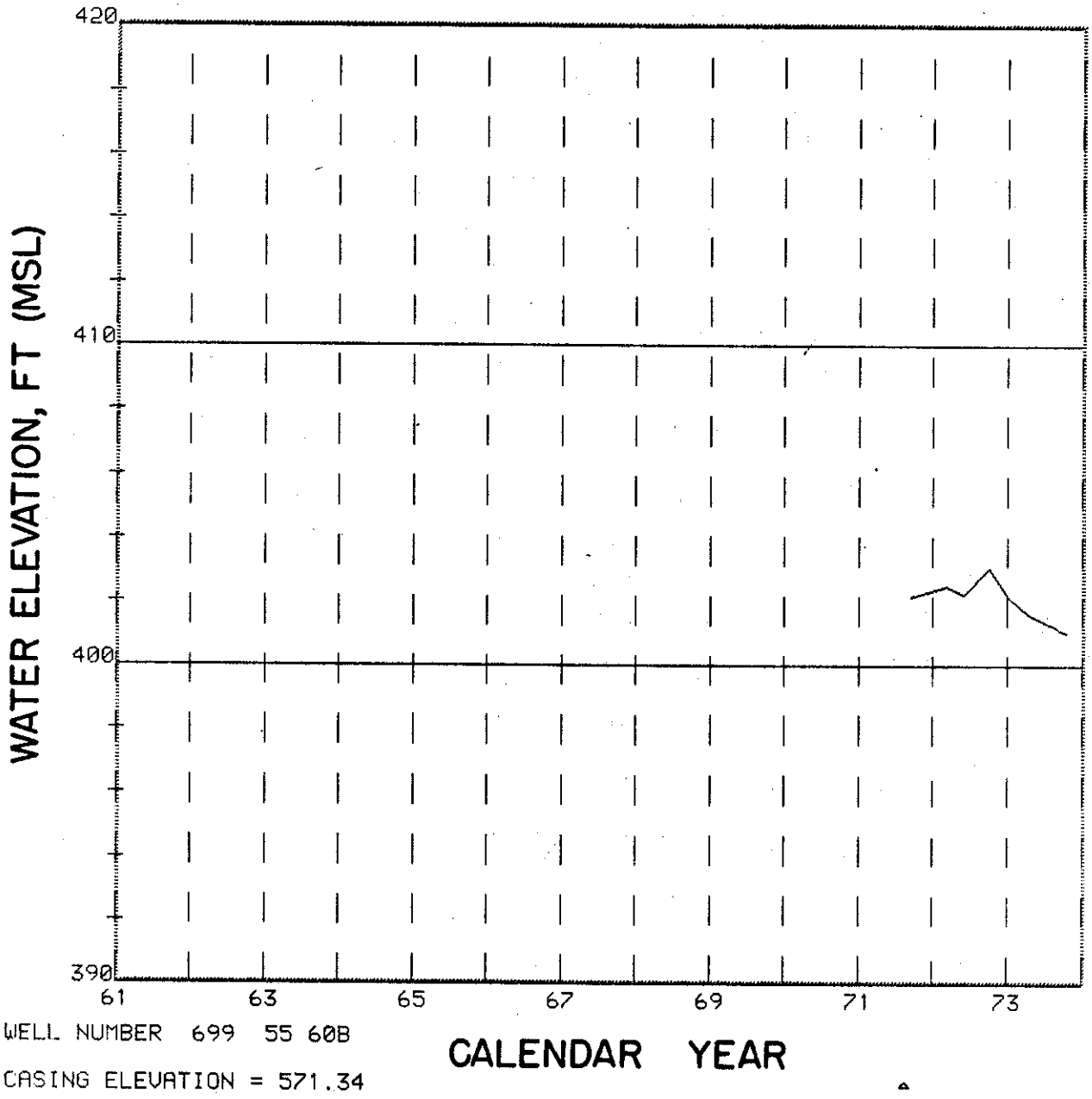

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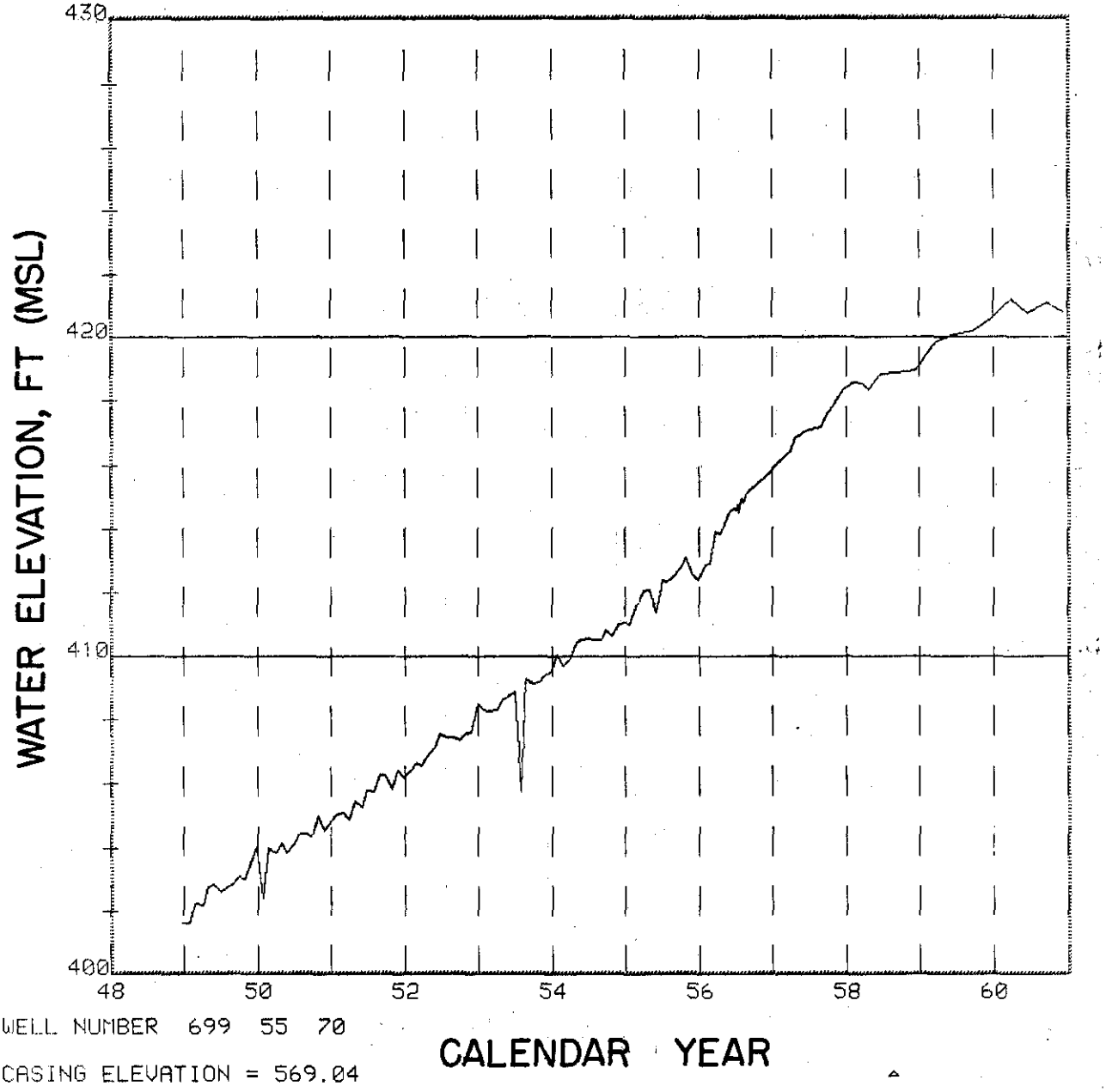

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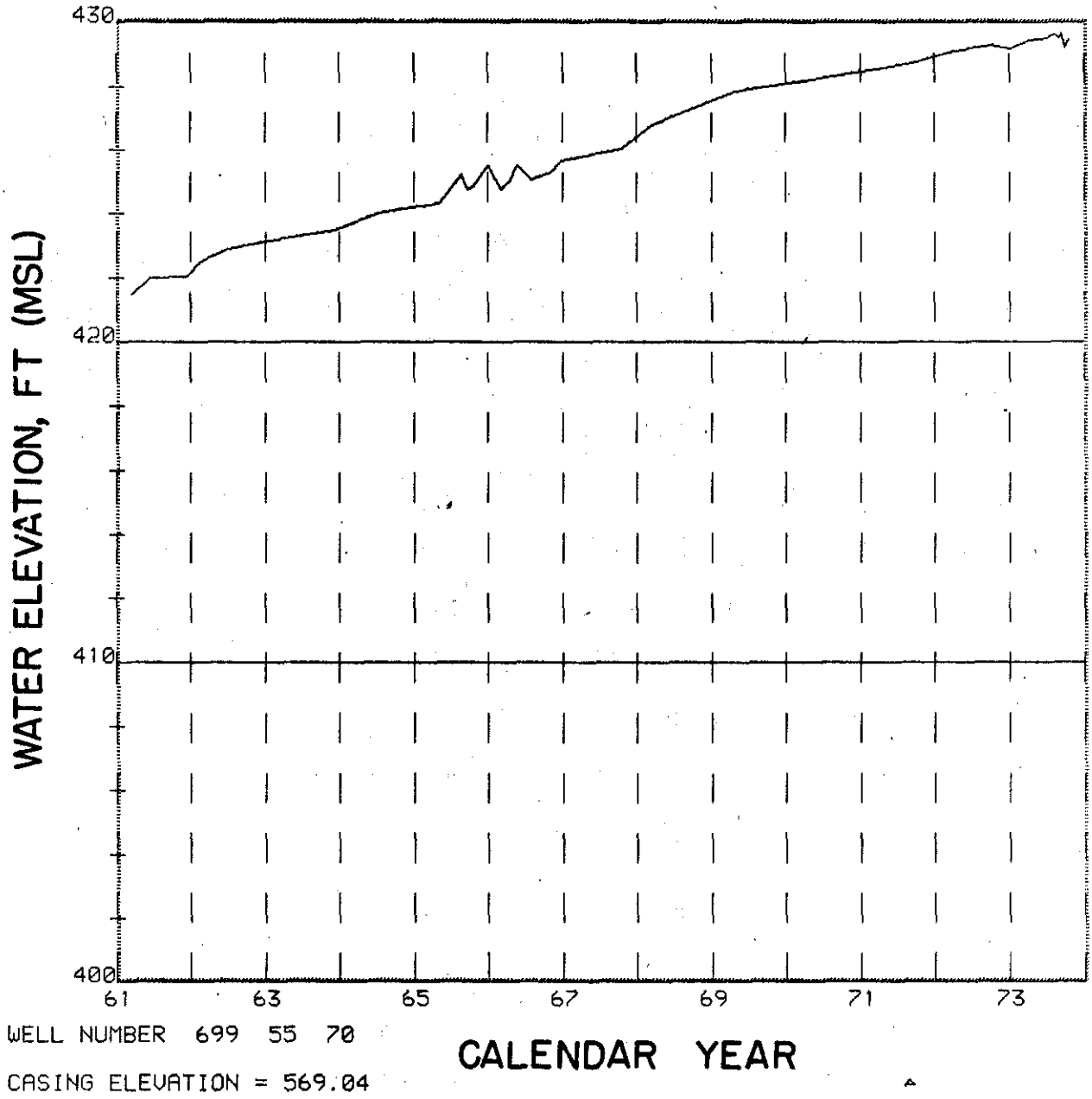

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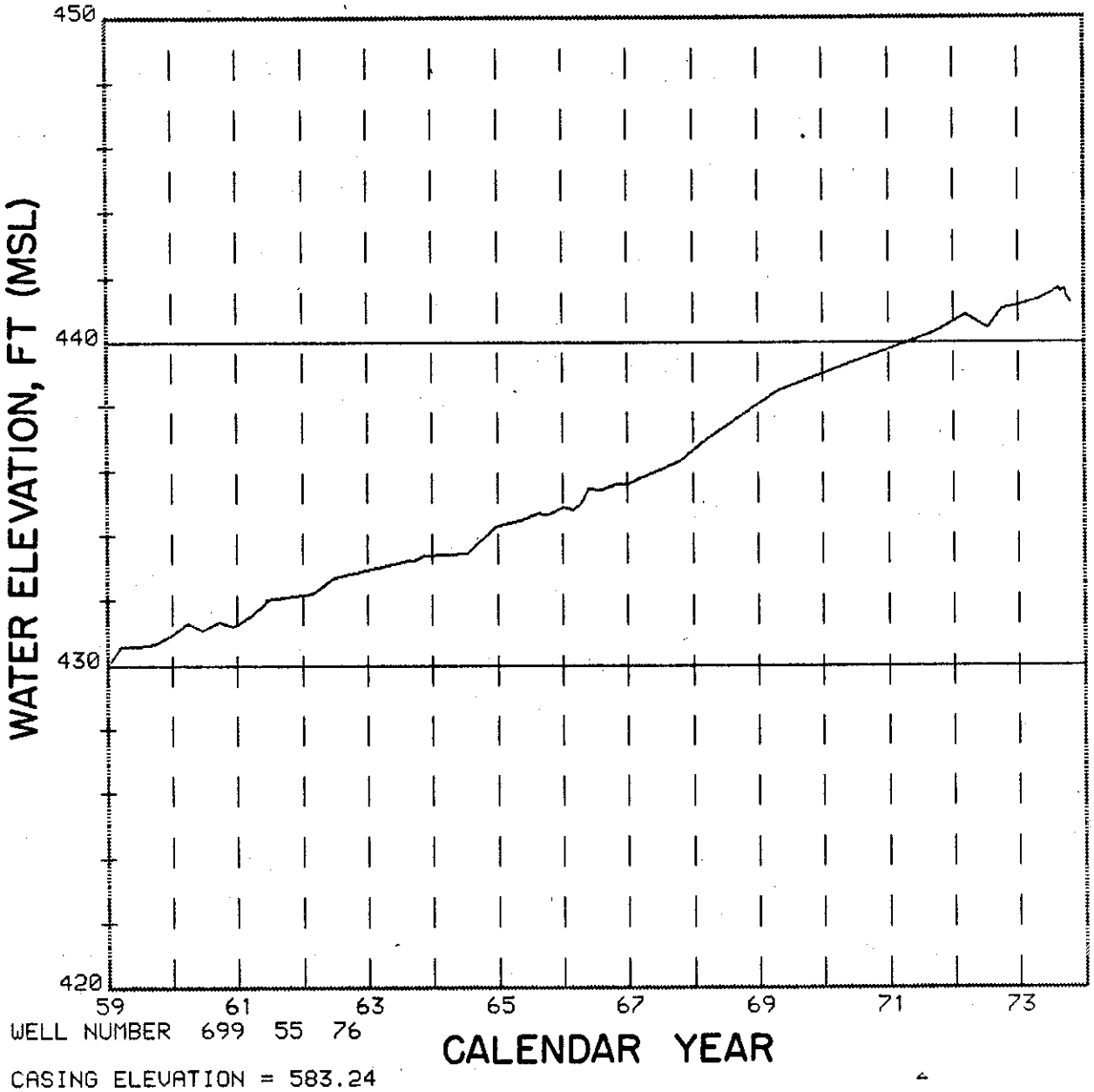

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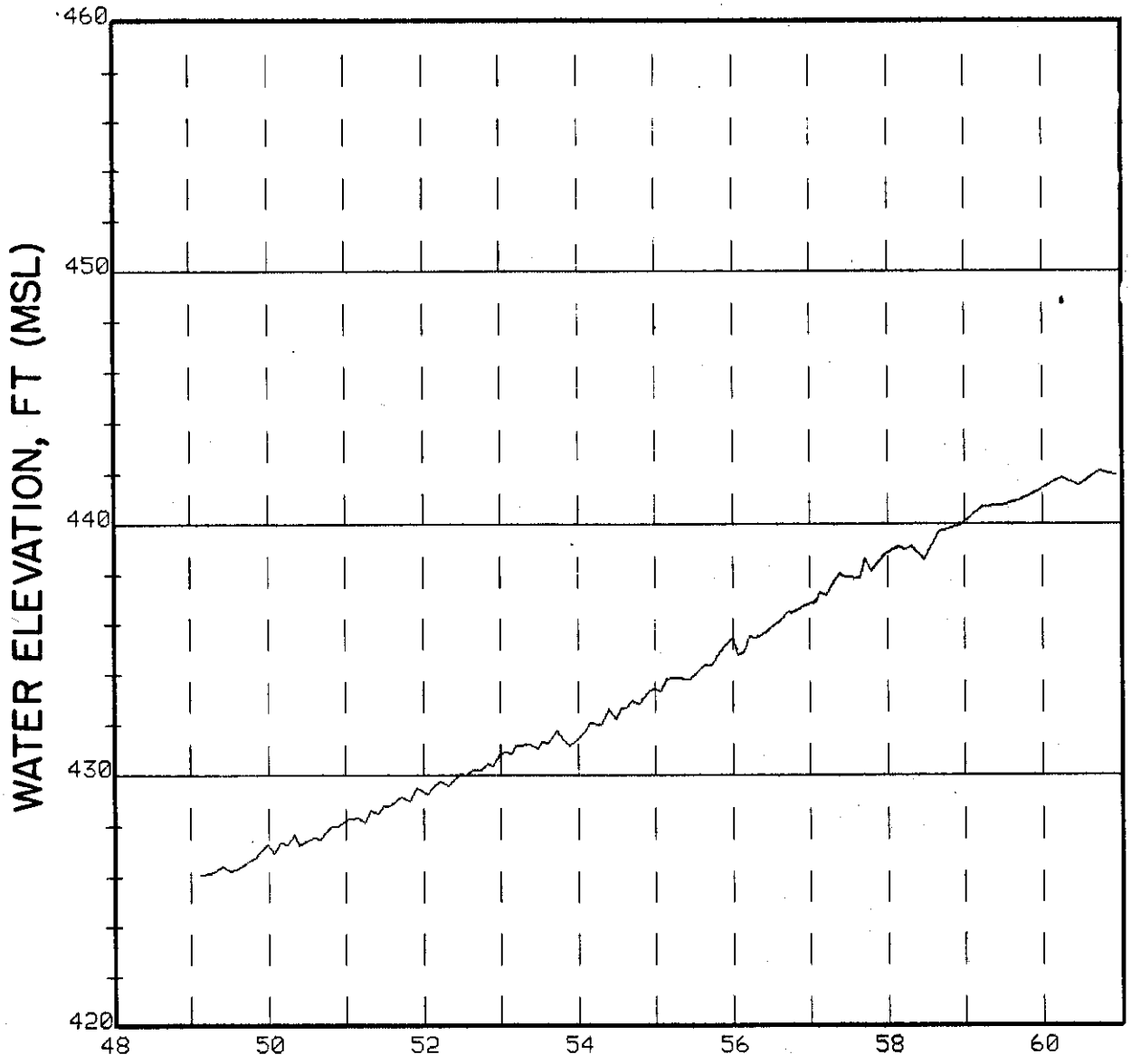

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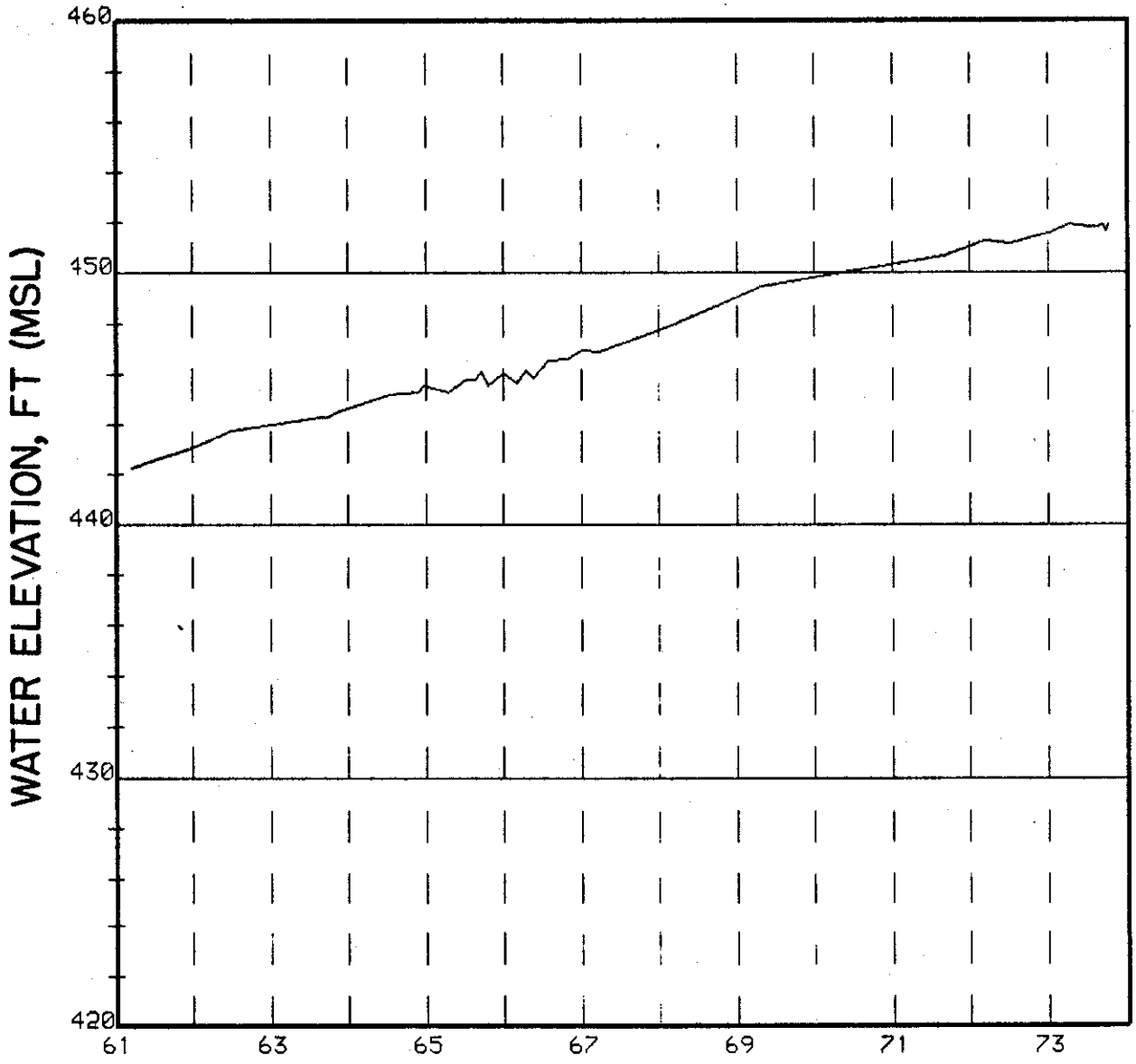

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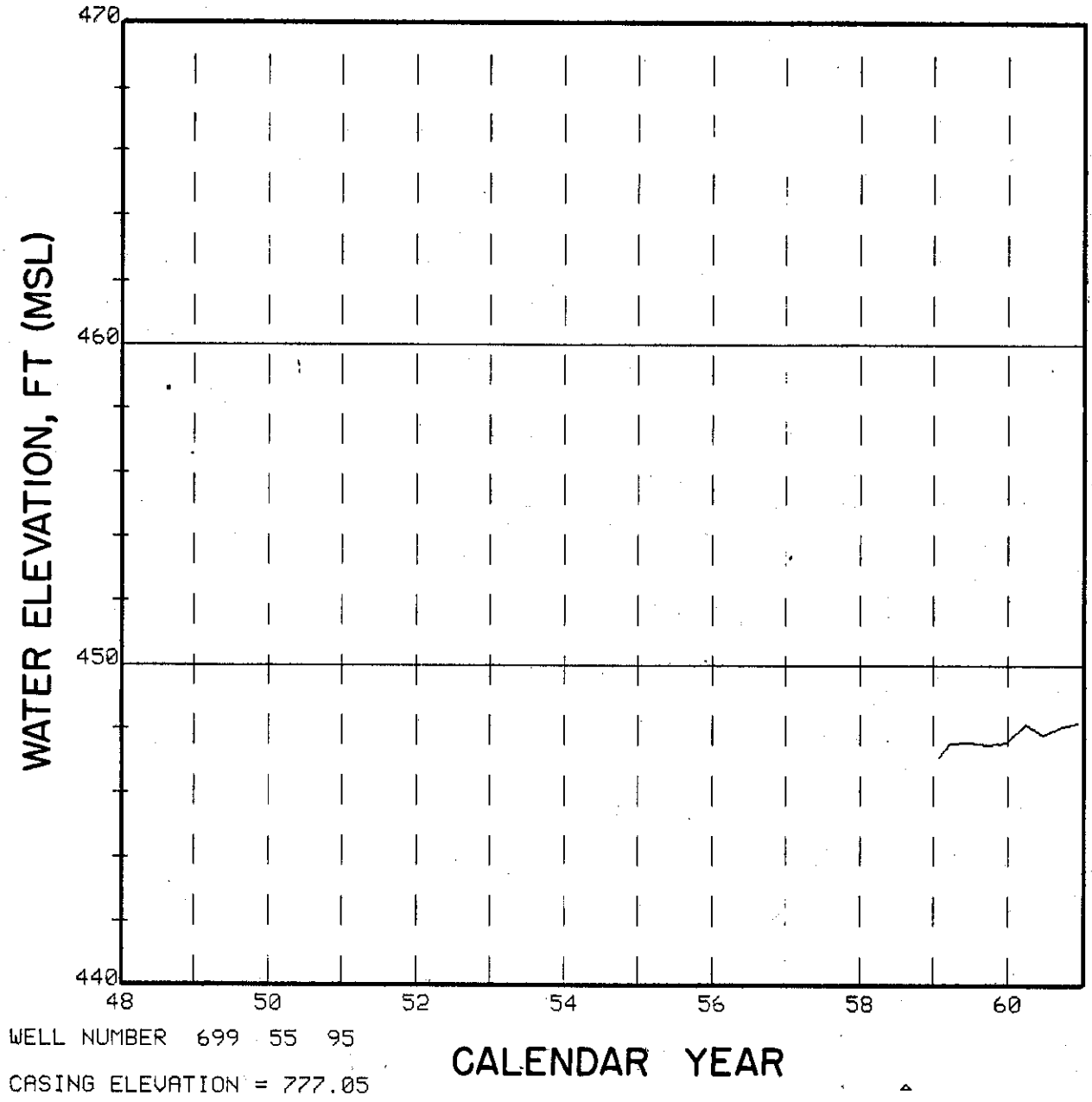

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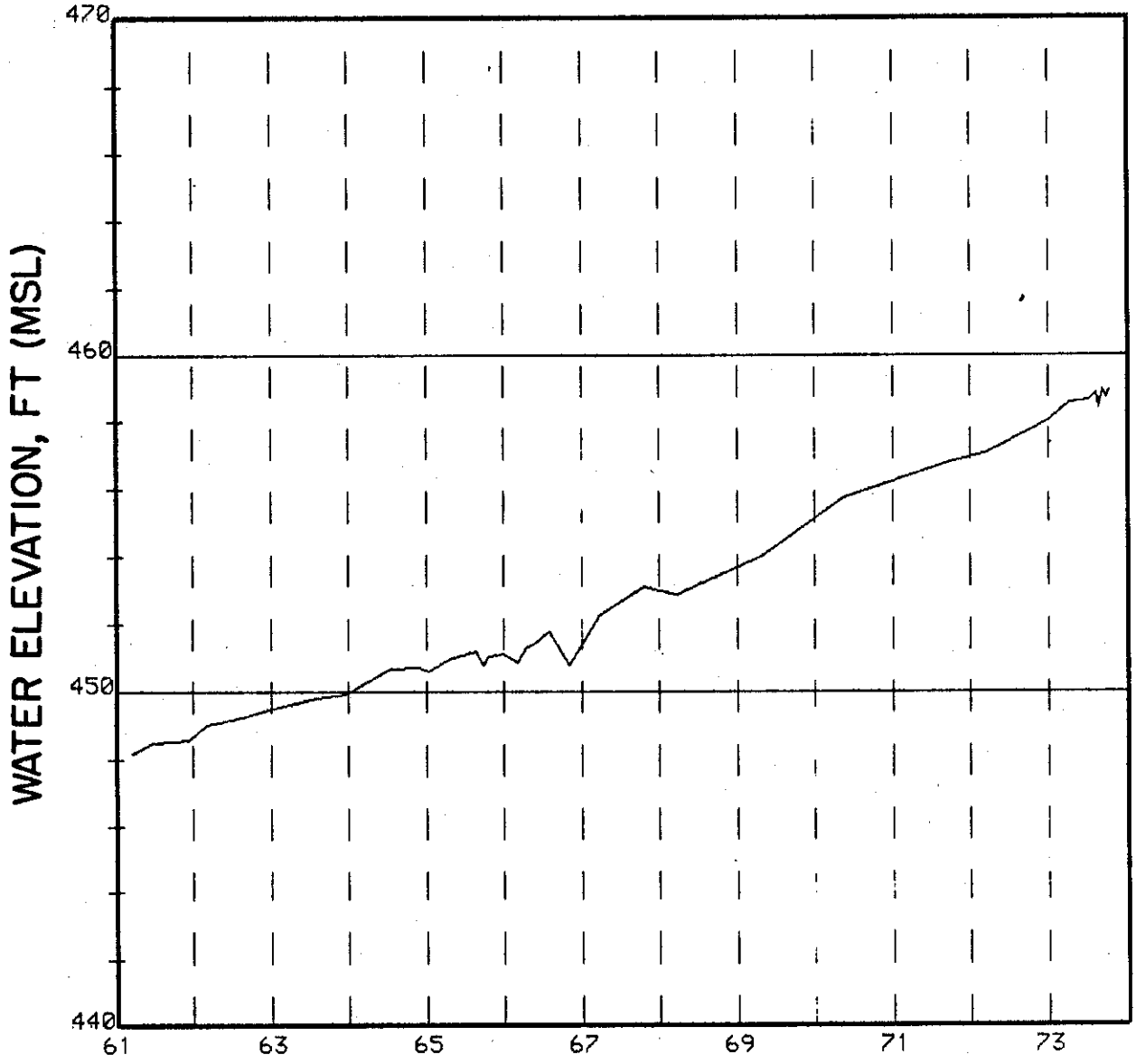

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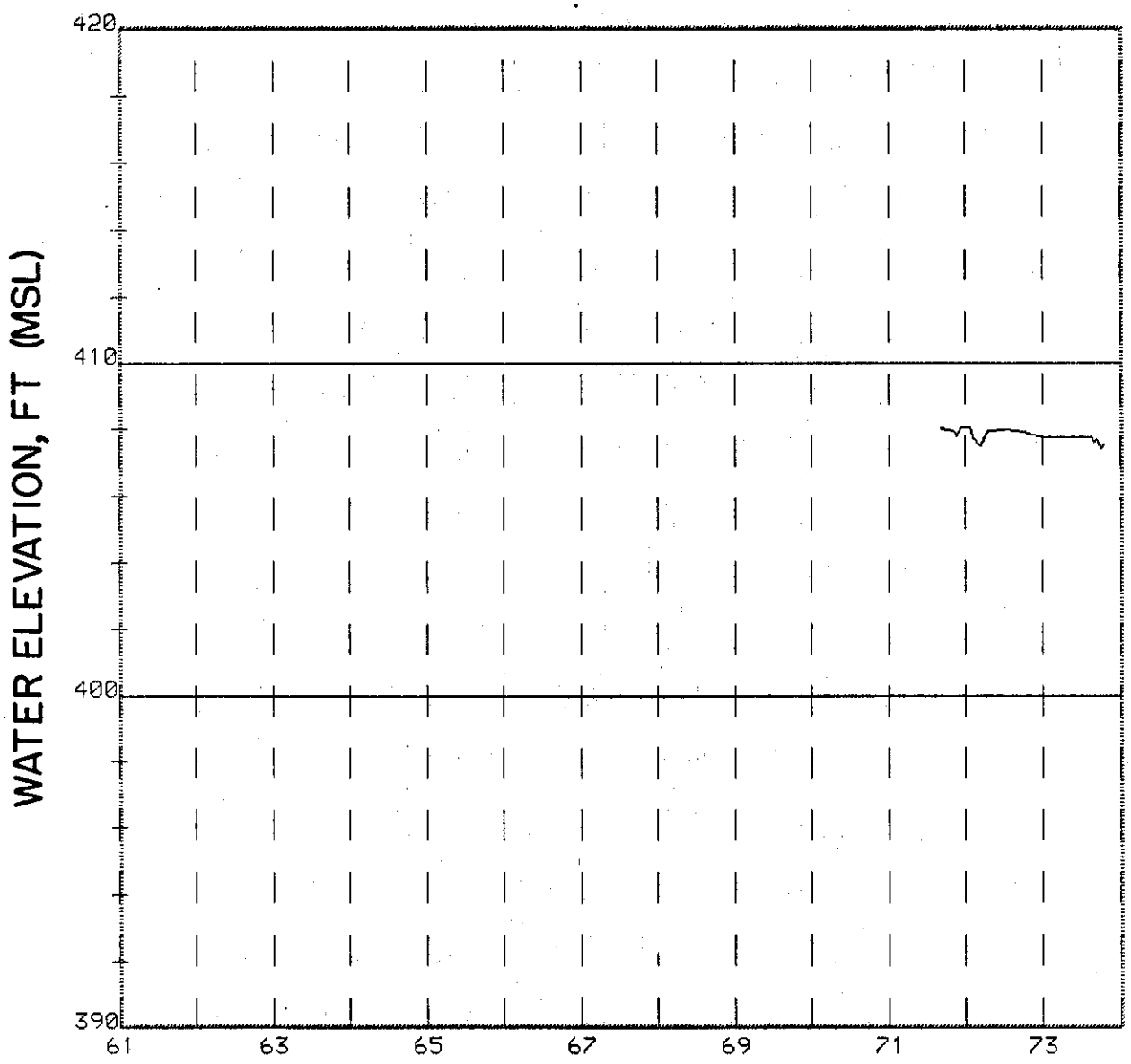

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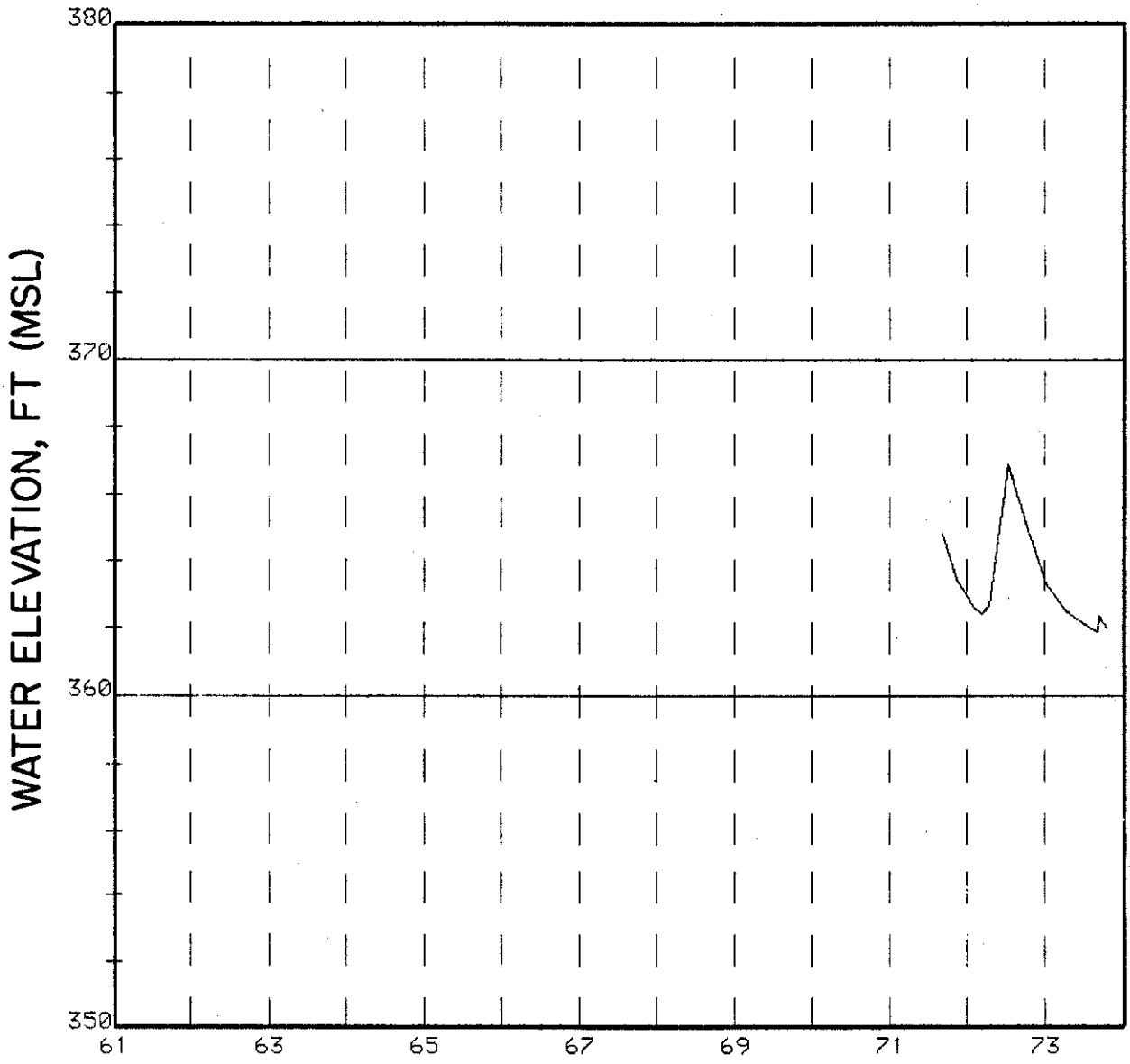

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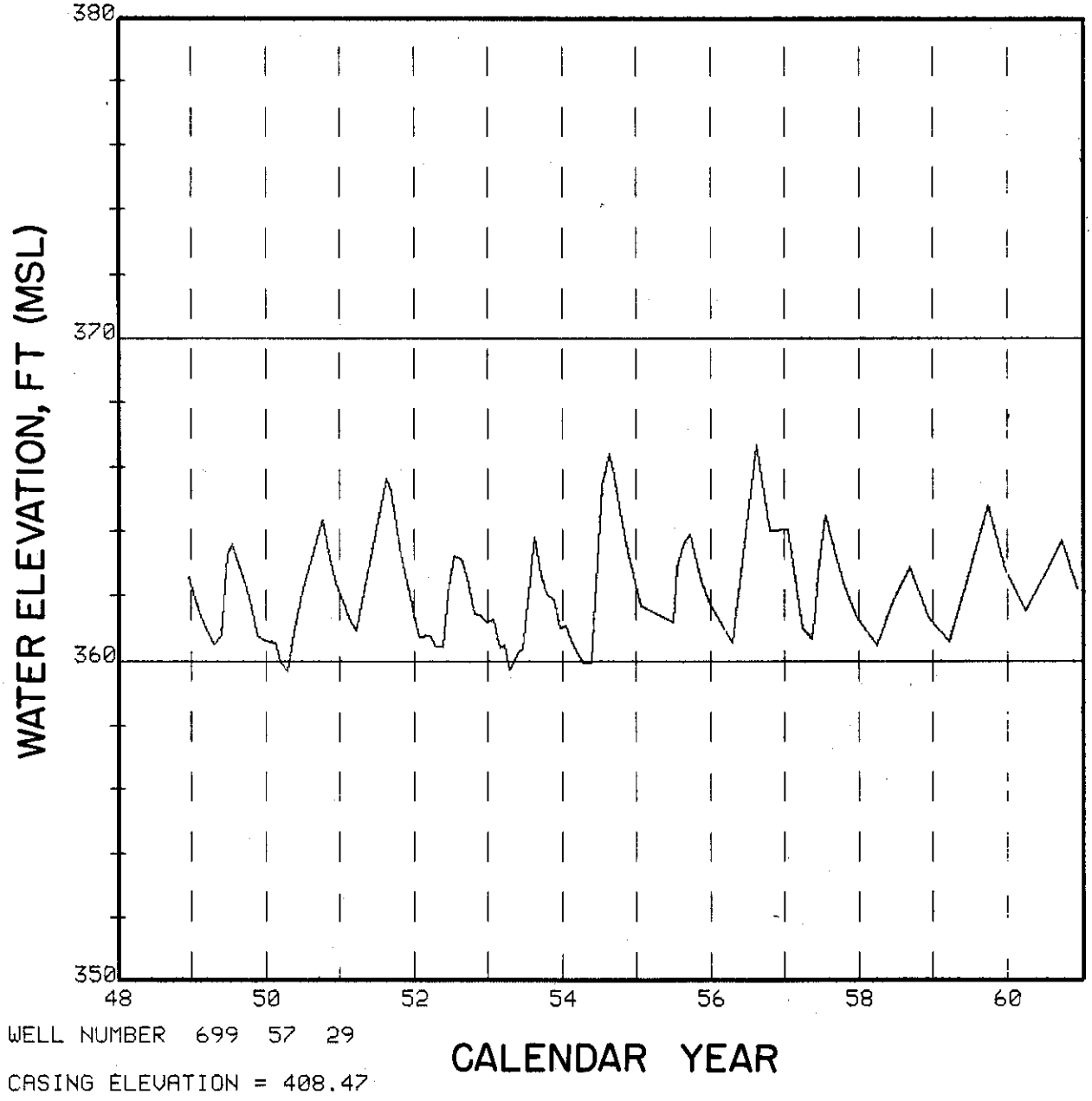

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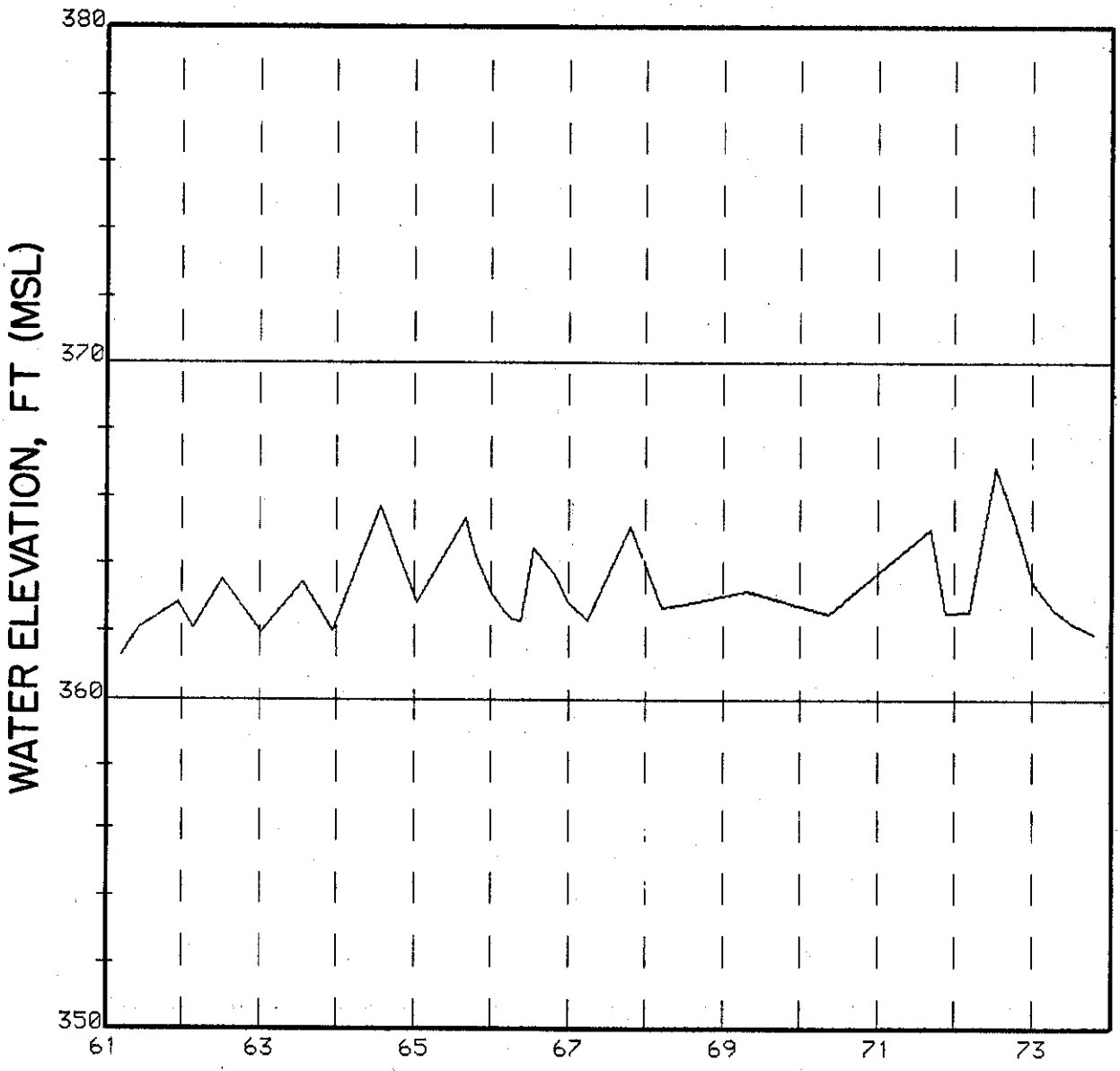

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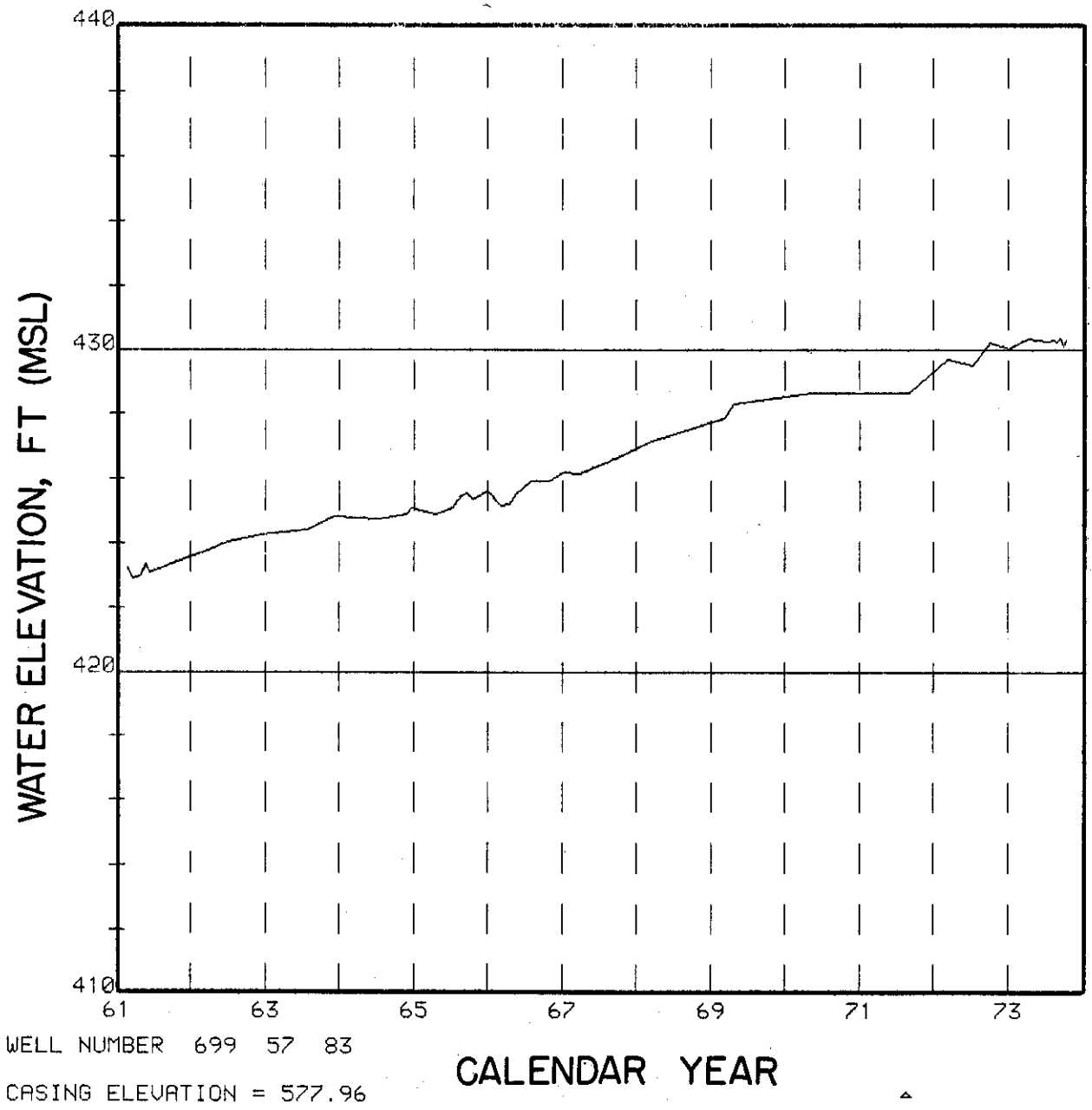

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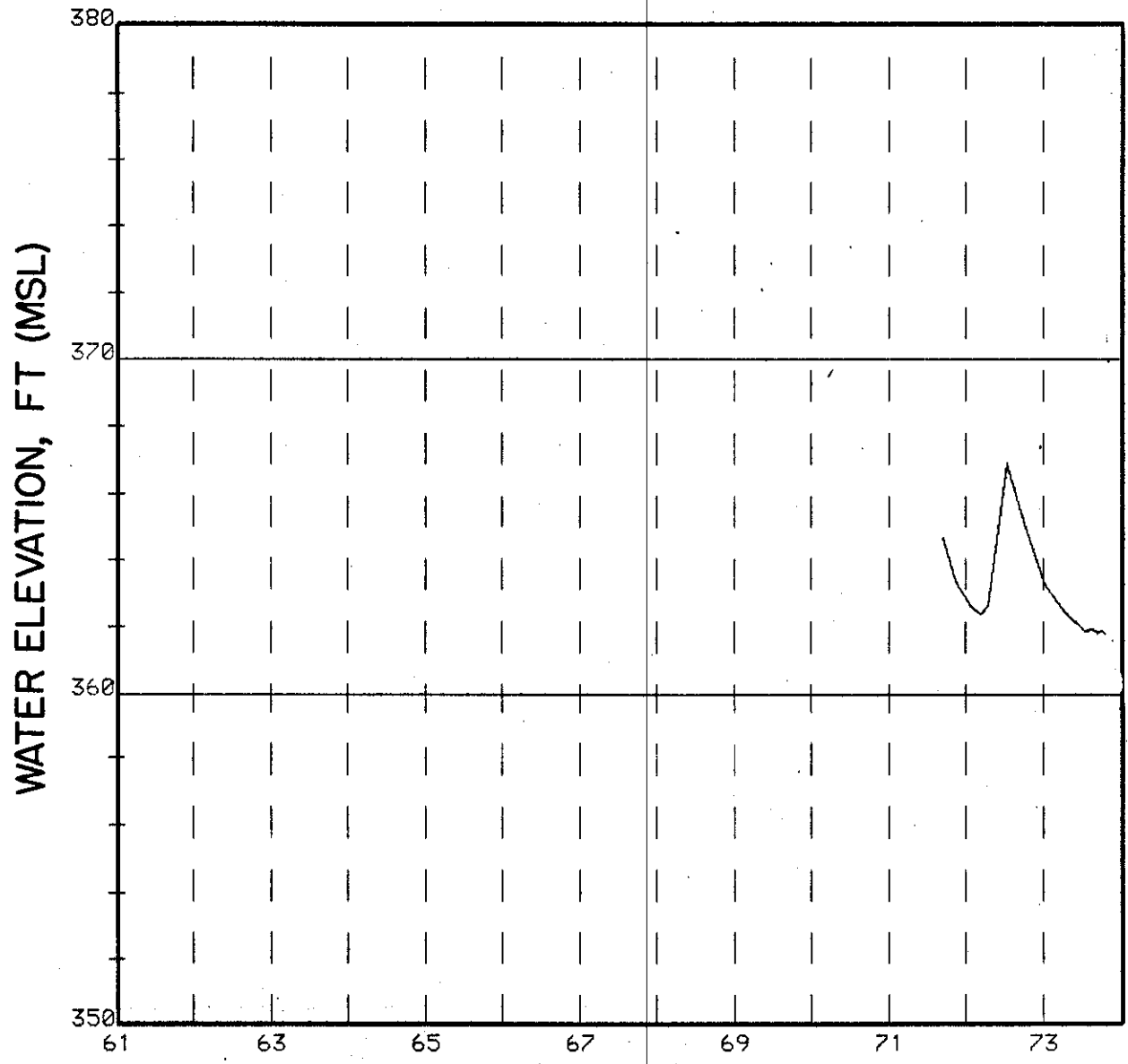

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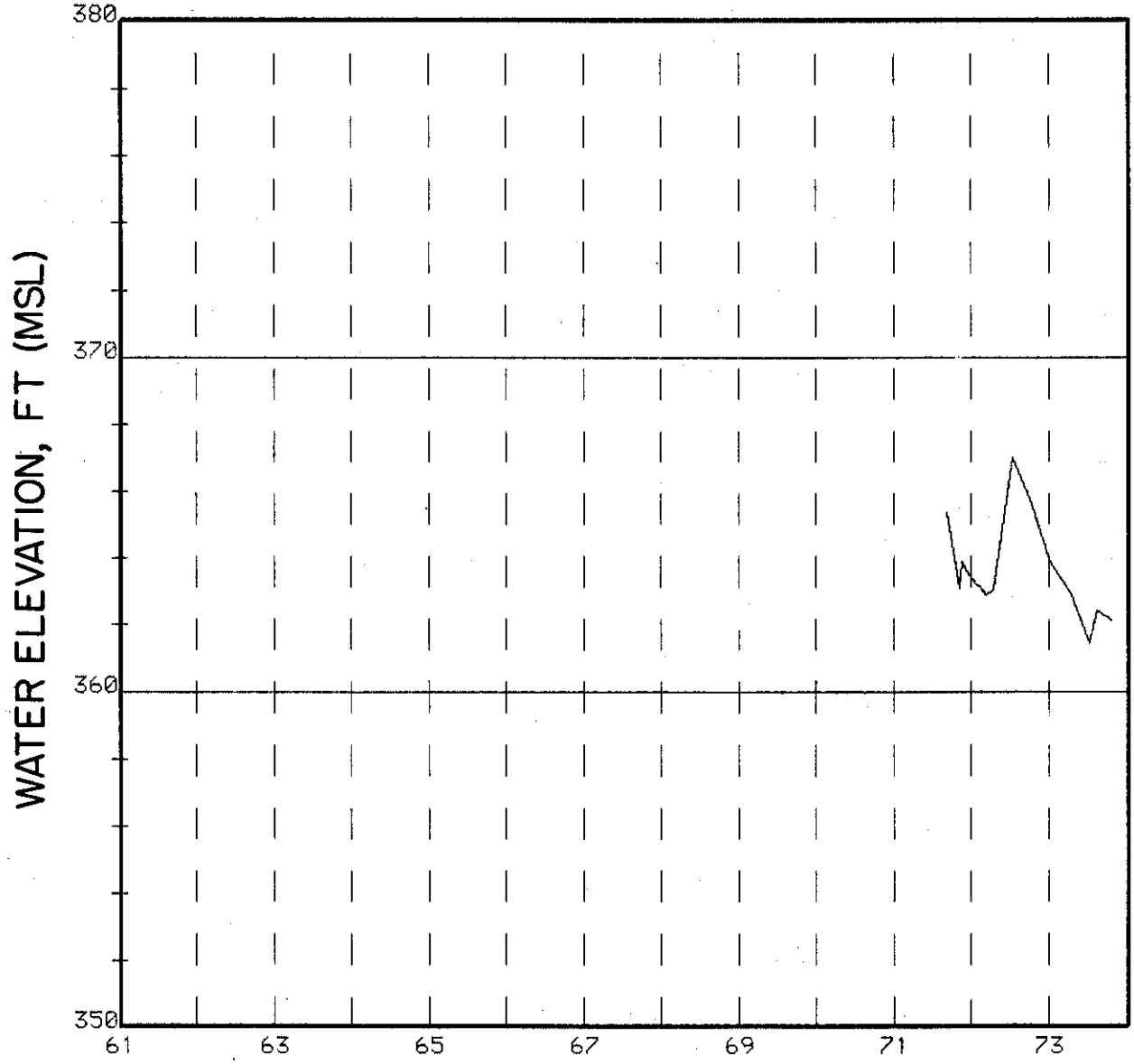

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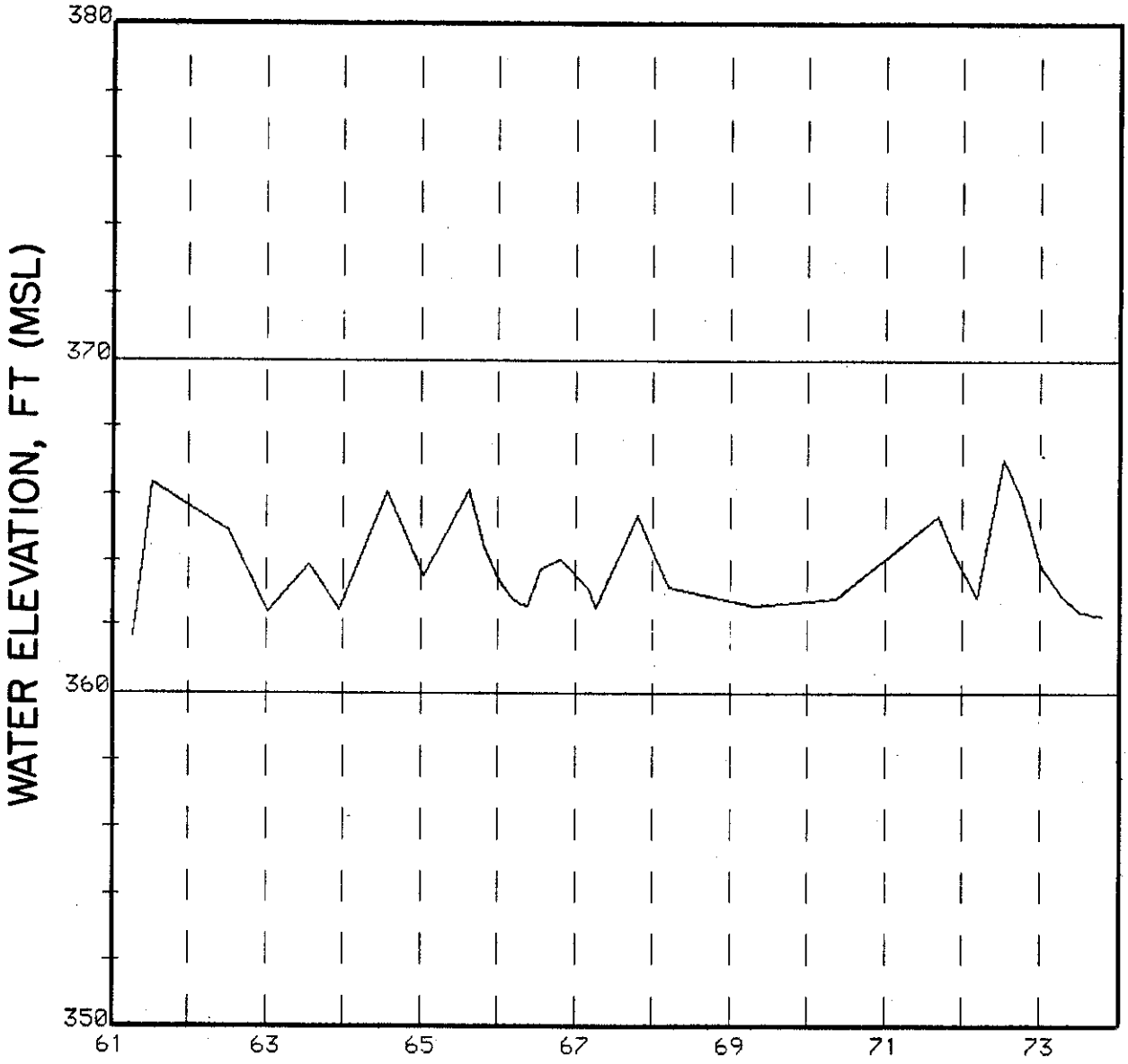

WELL NUMBER 699 59 33

CASING ELEVATION = 404.52

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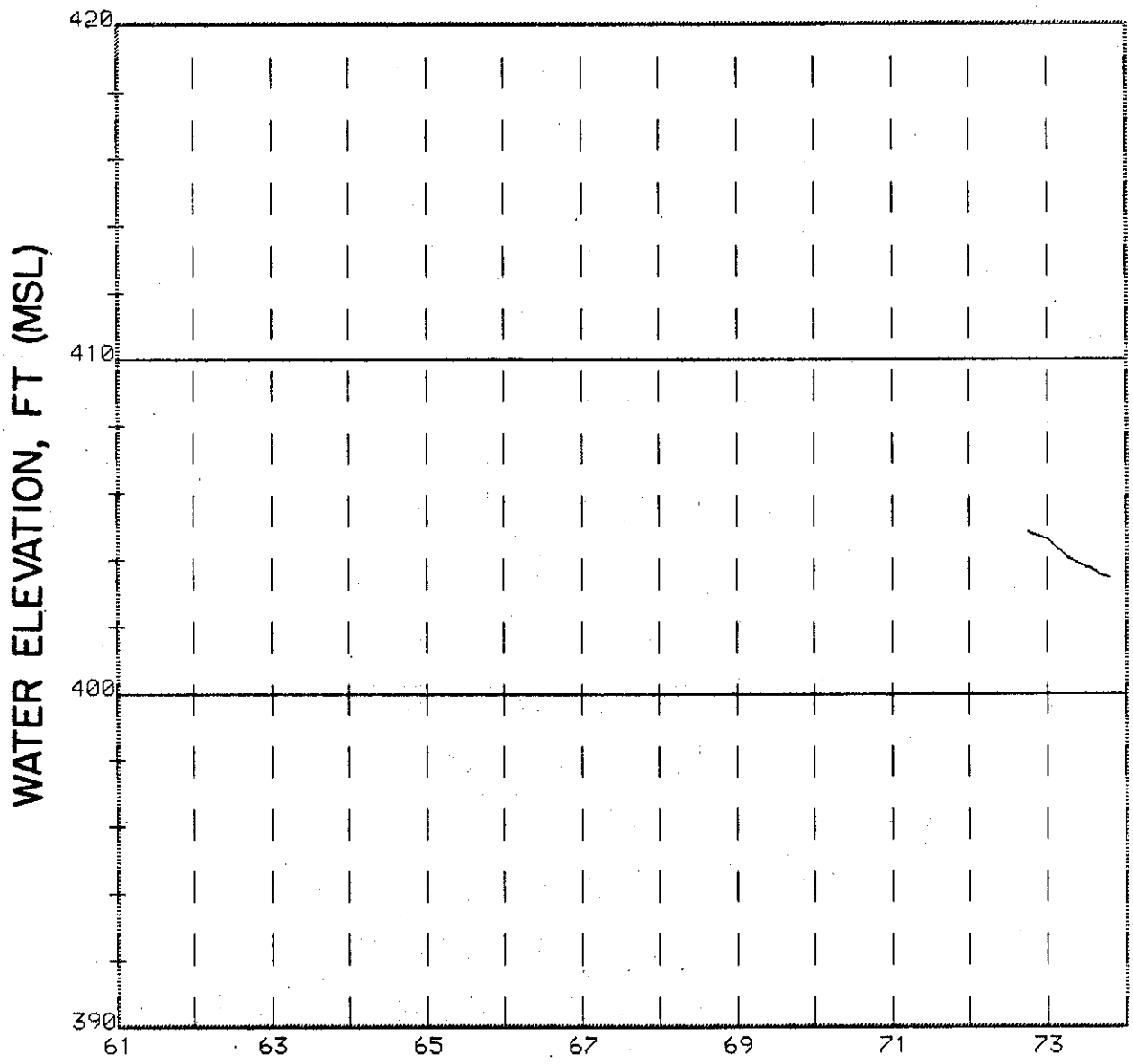

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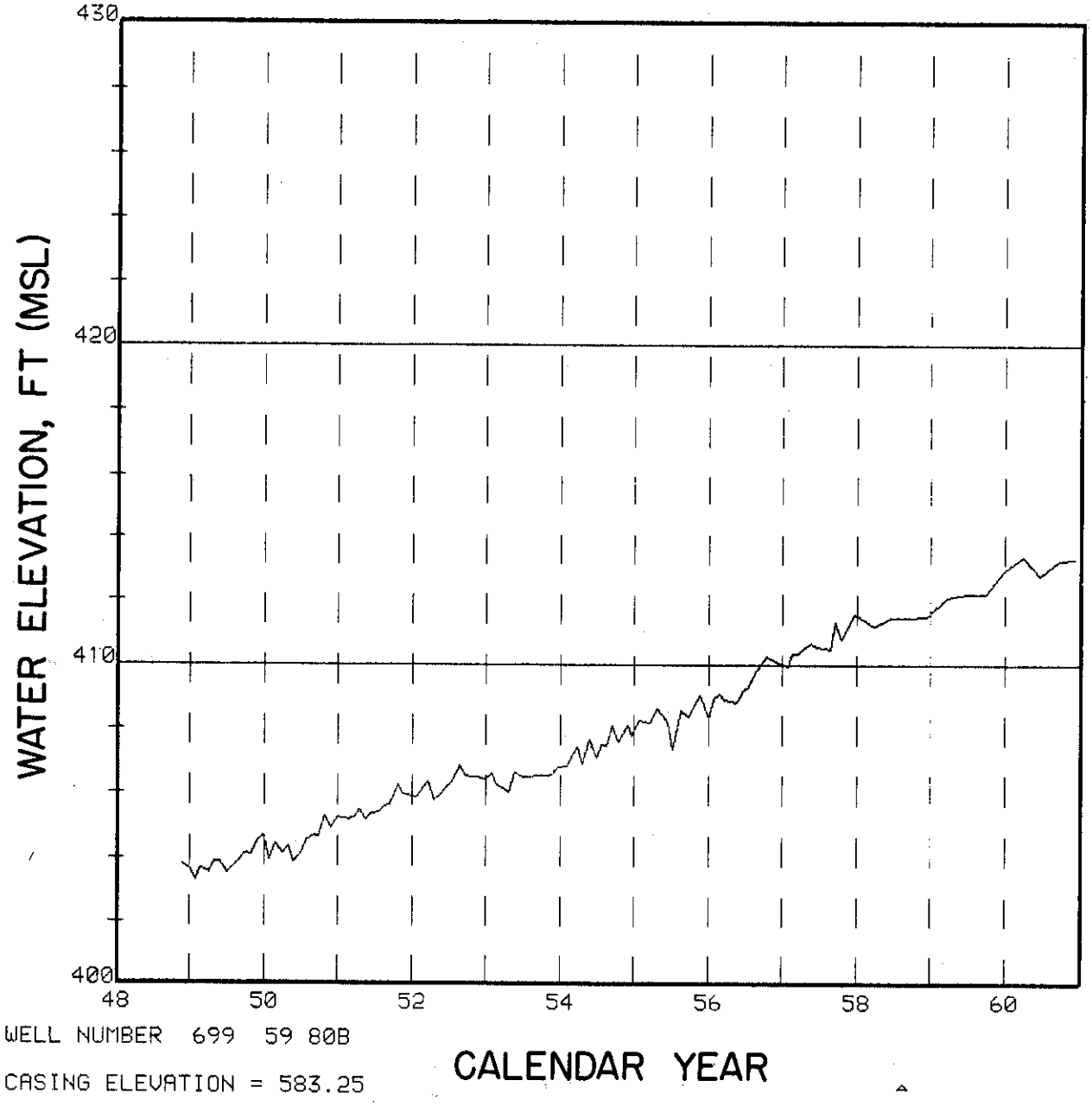
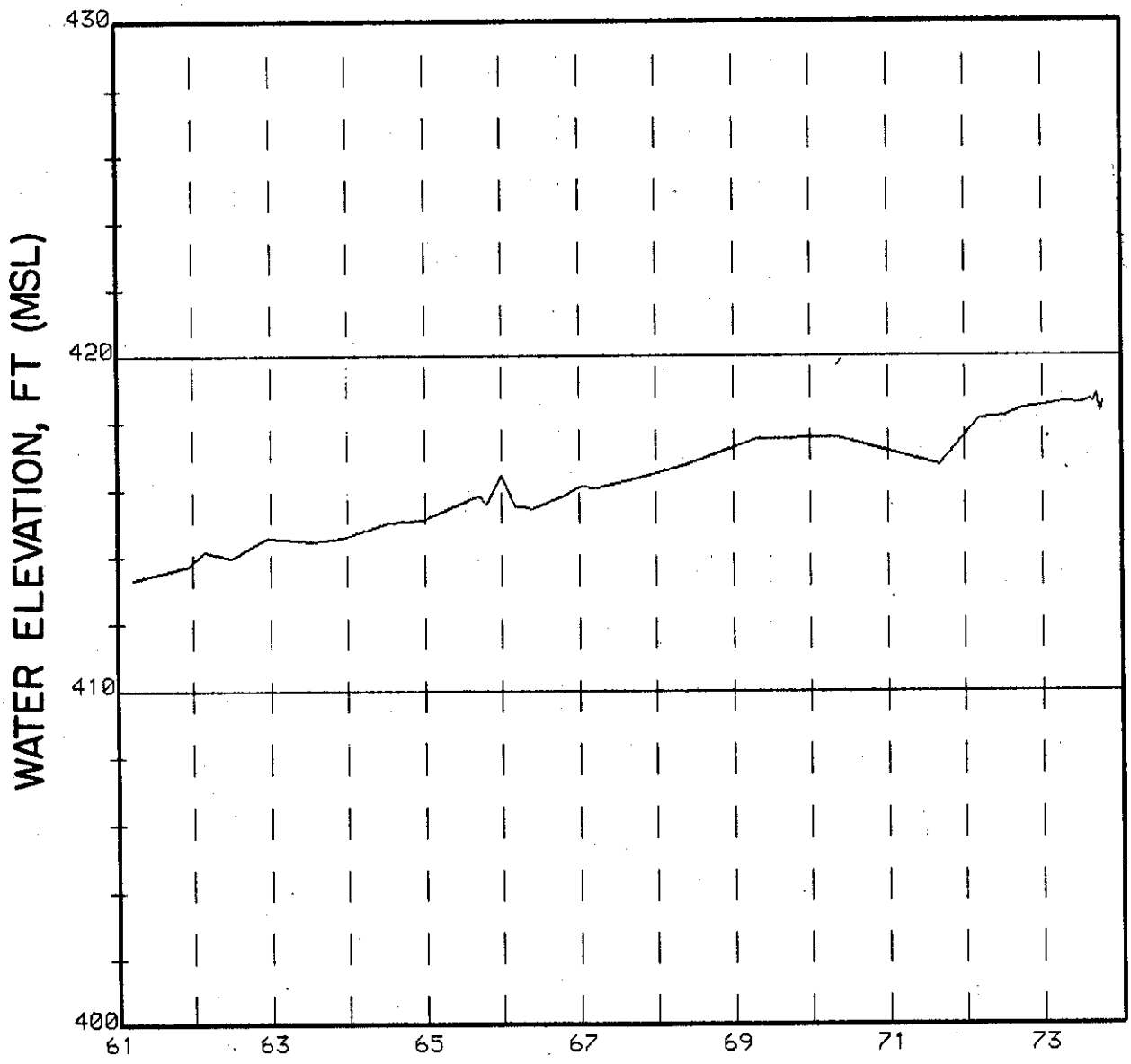


WELL NUMBER 699 59 80B

CASING ELEVATION = 583.25



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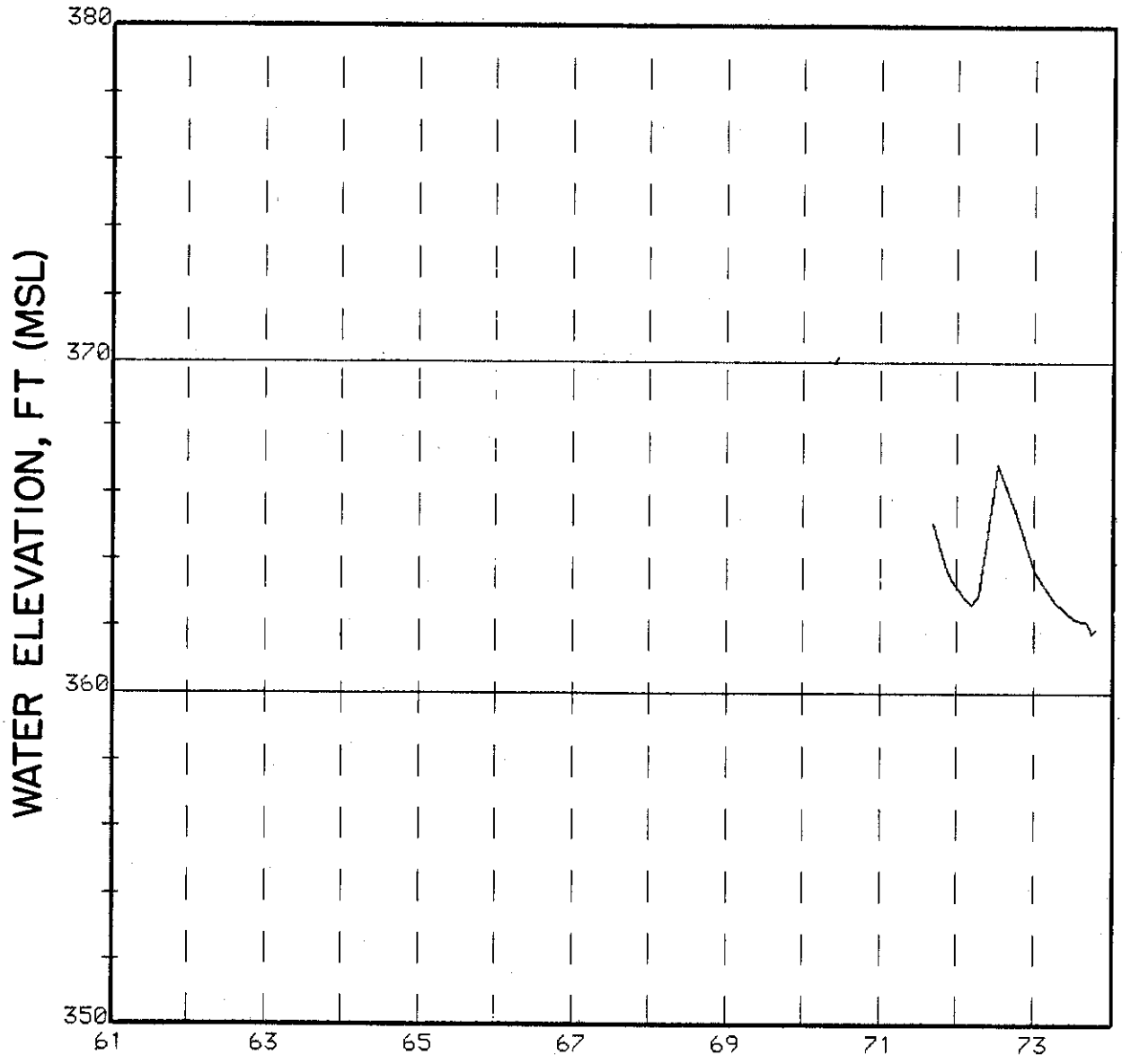

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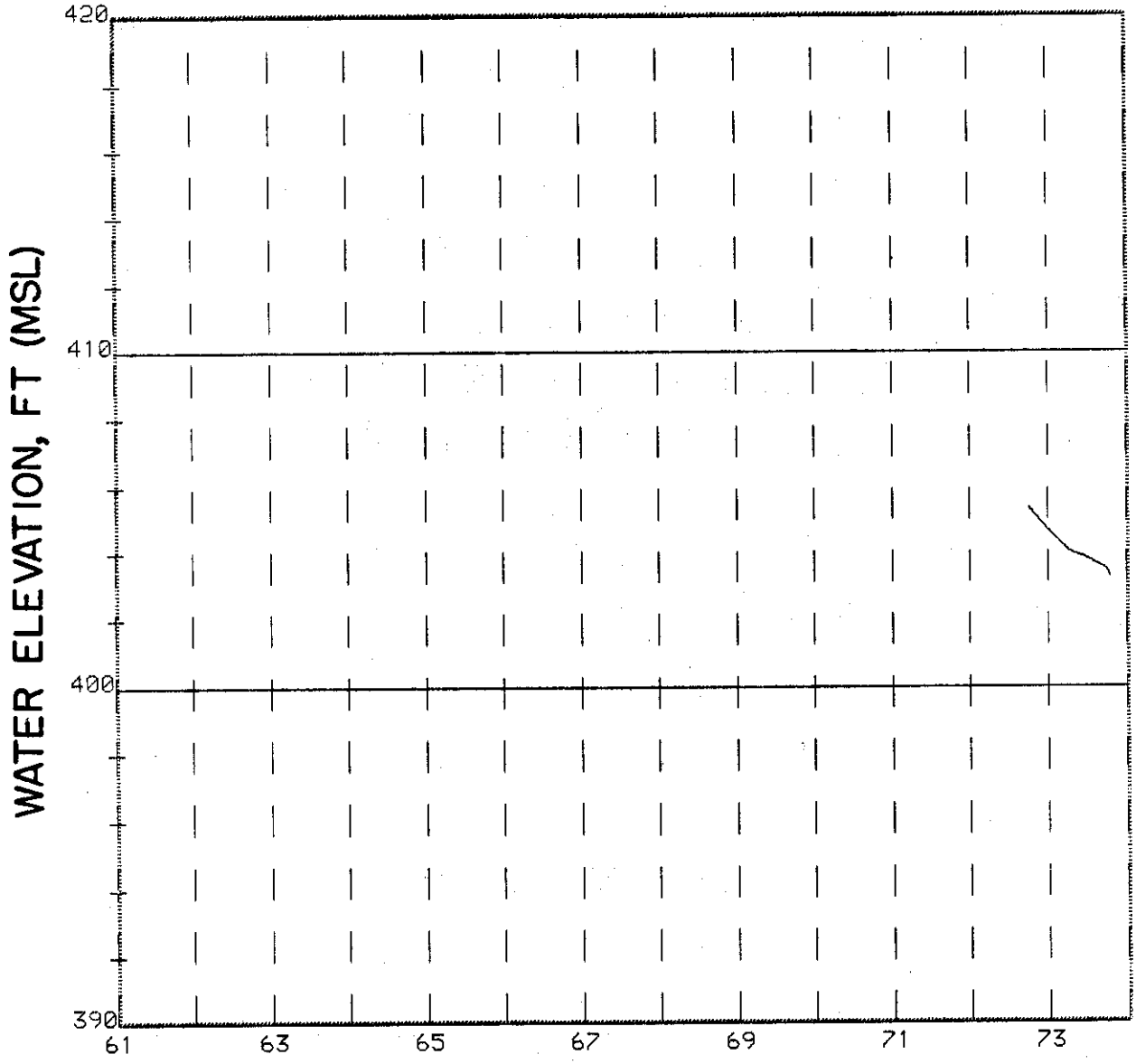

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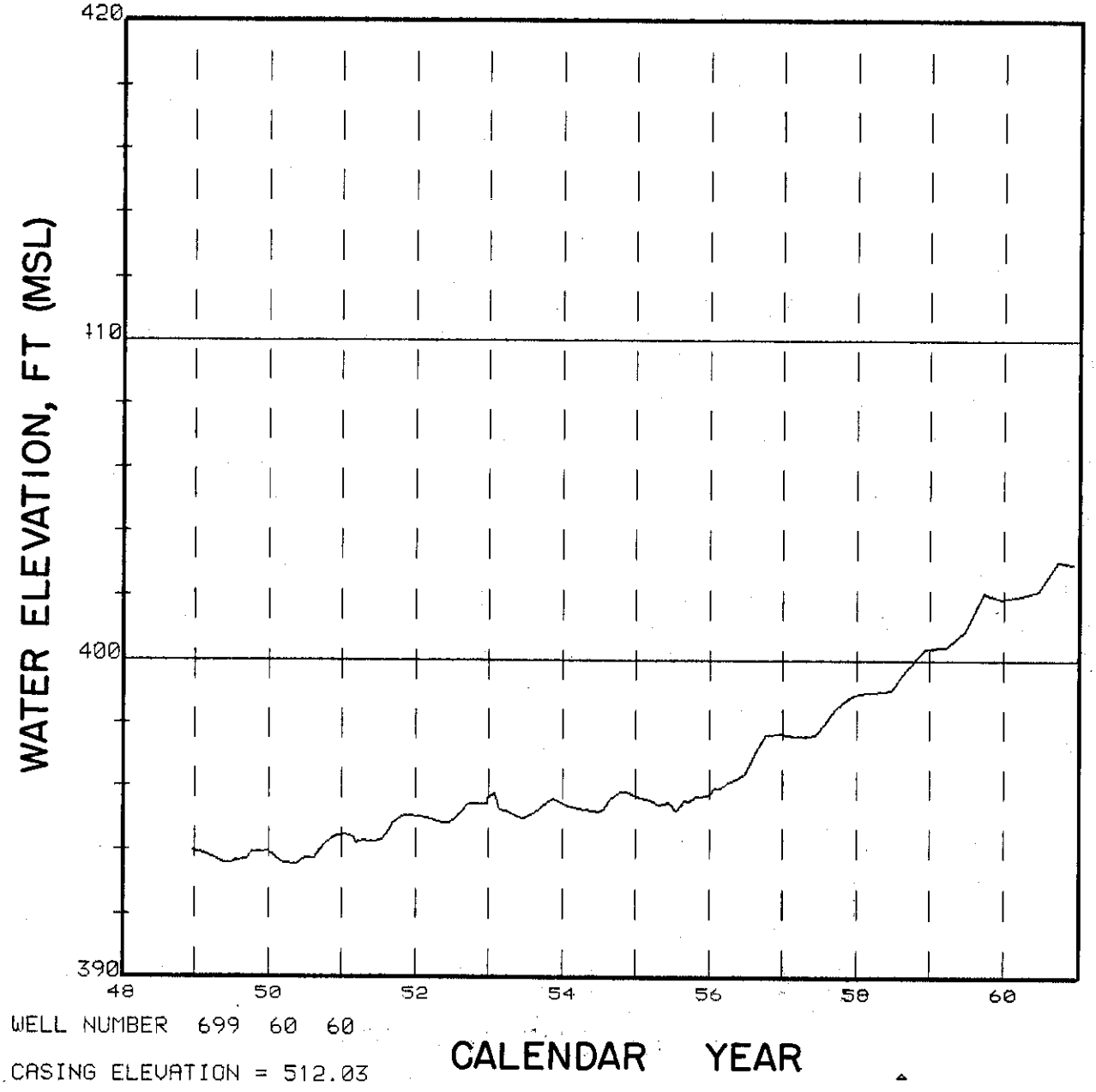

WELL NUMBER 699 60 60

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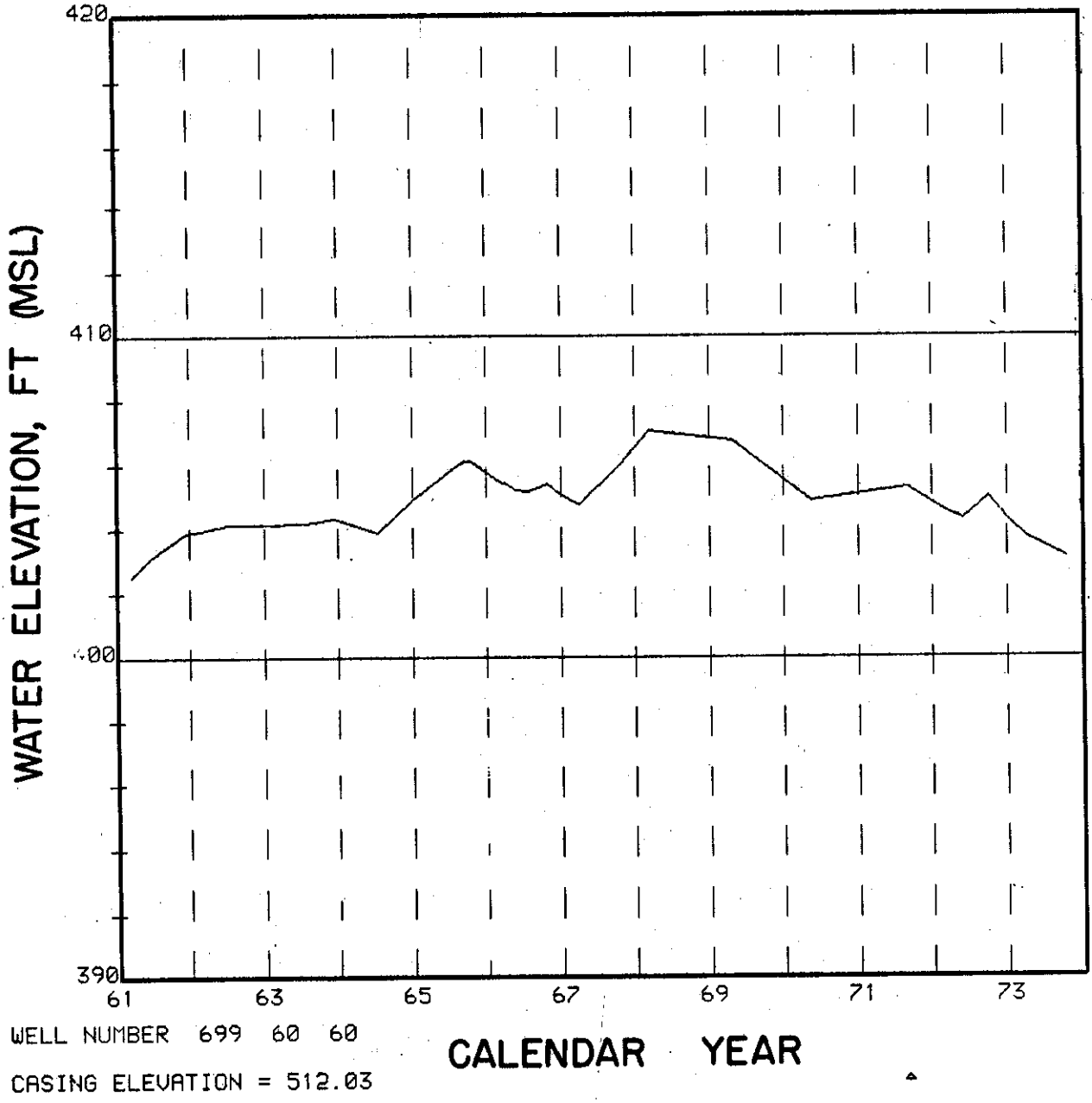

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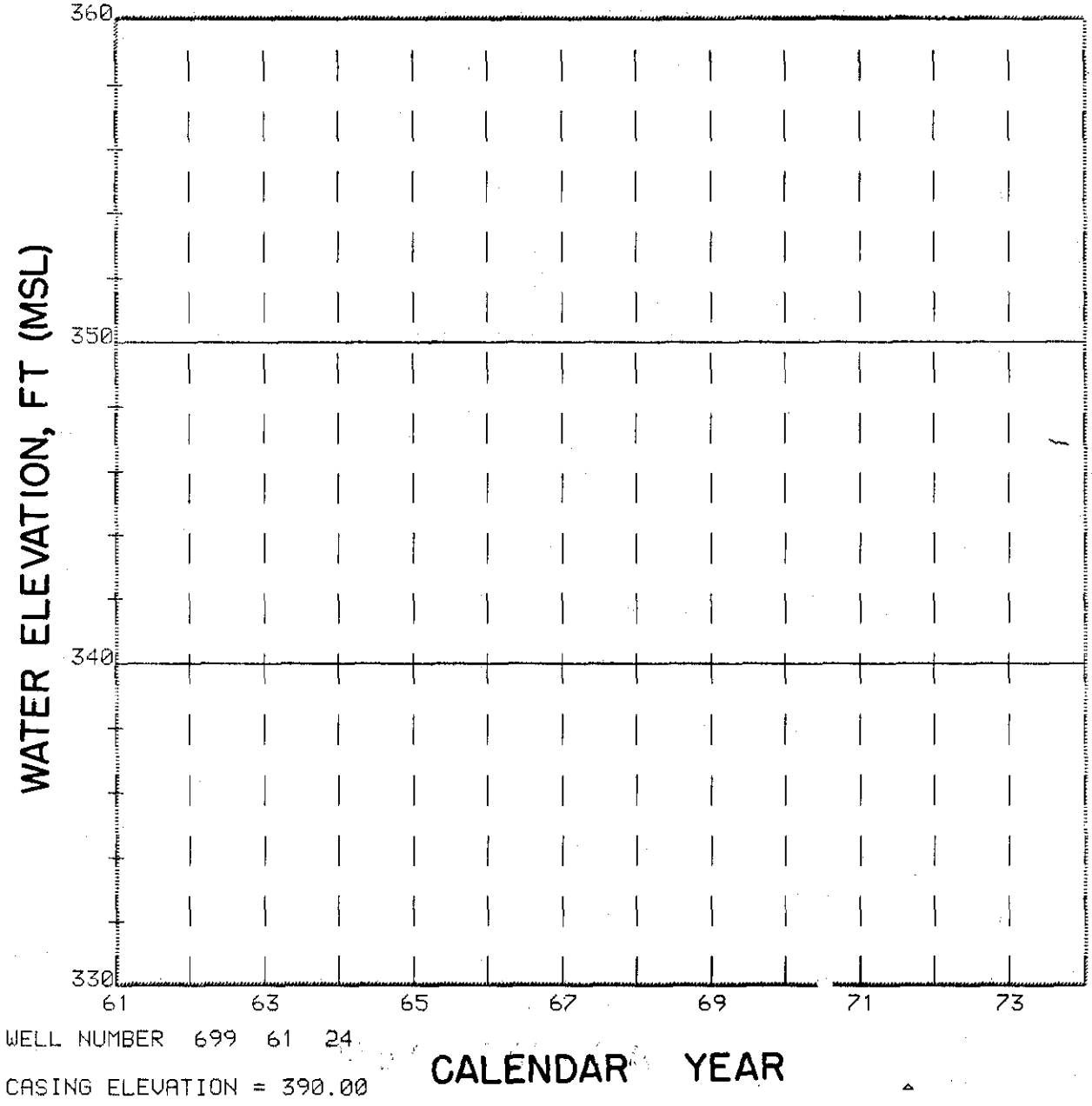

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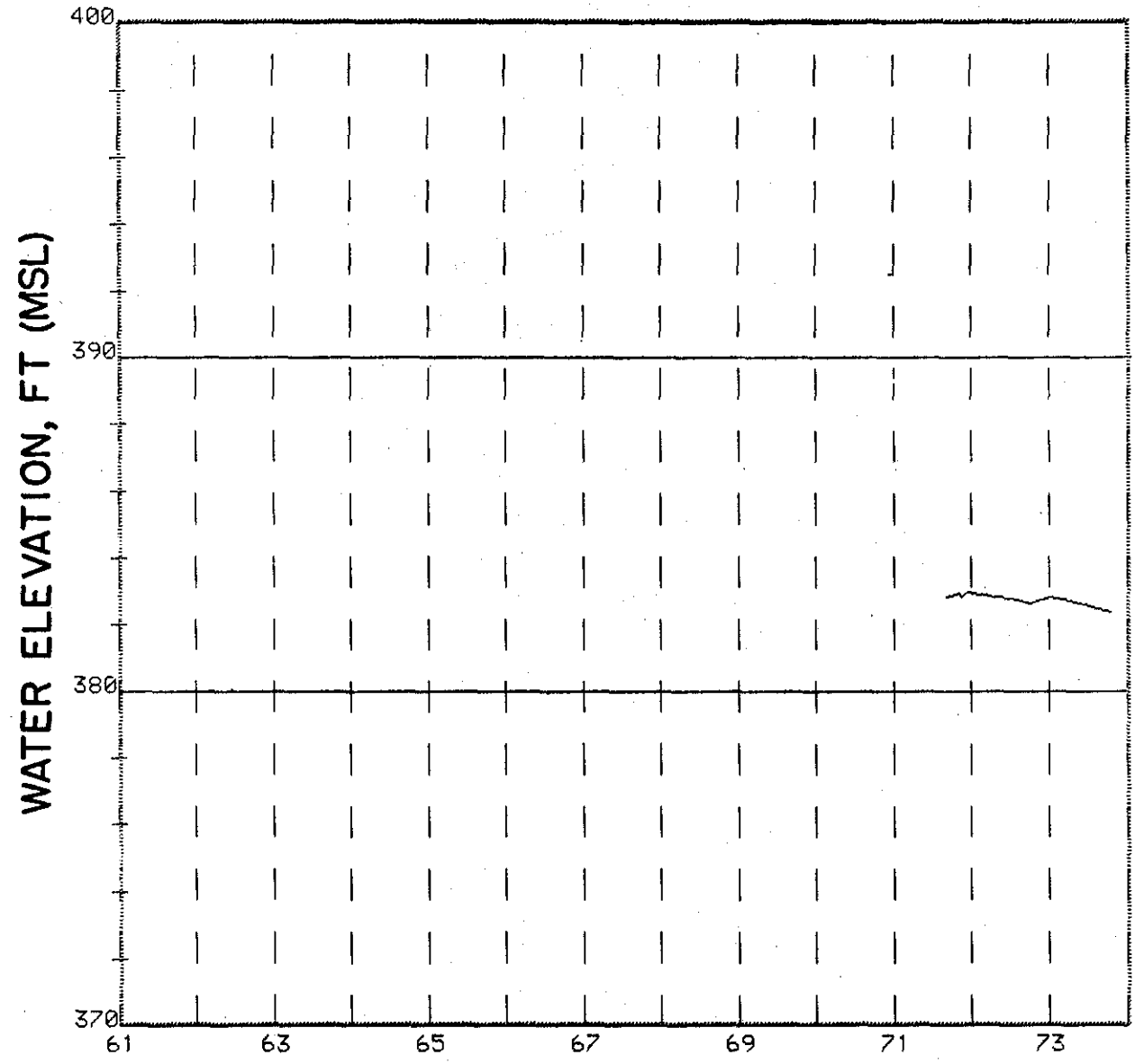

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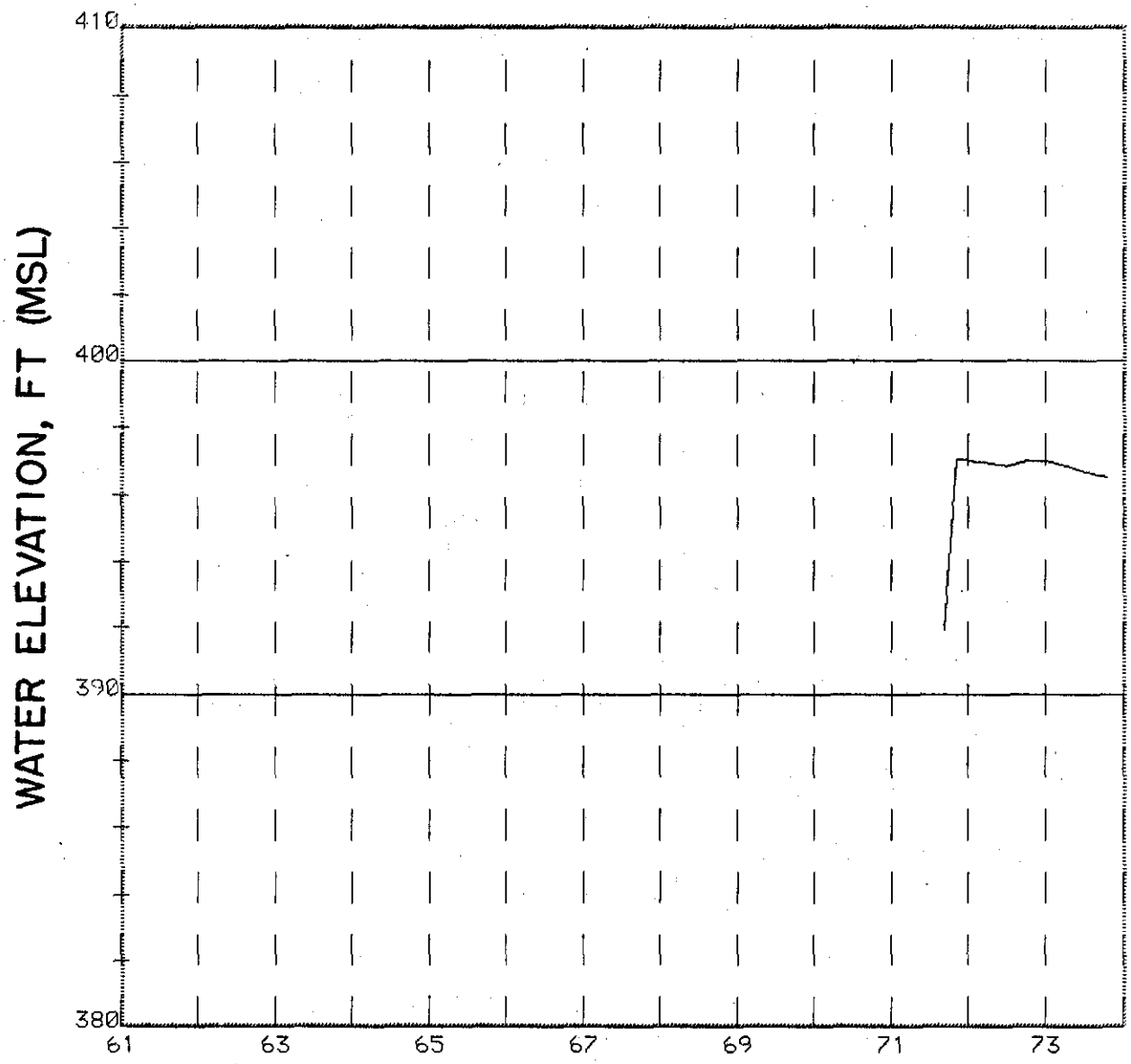

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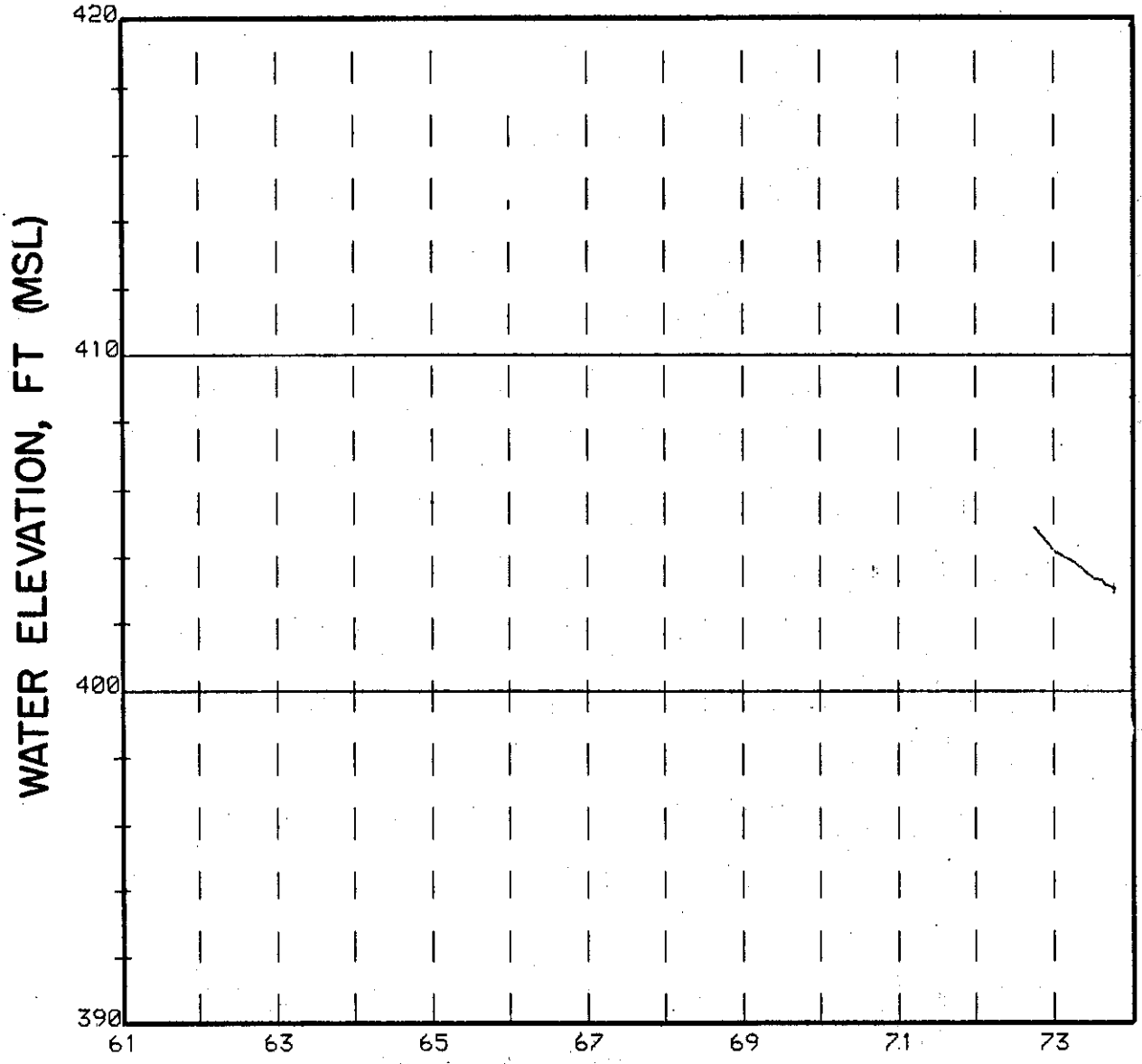

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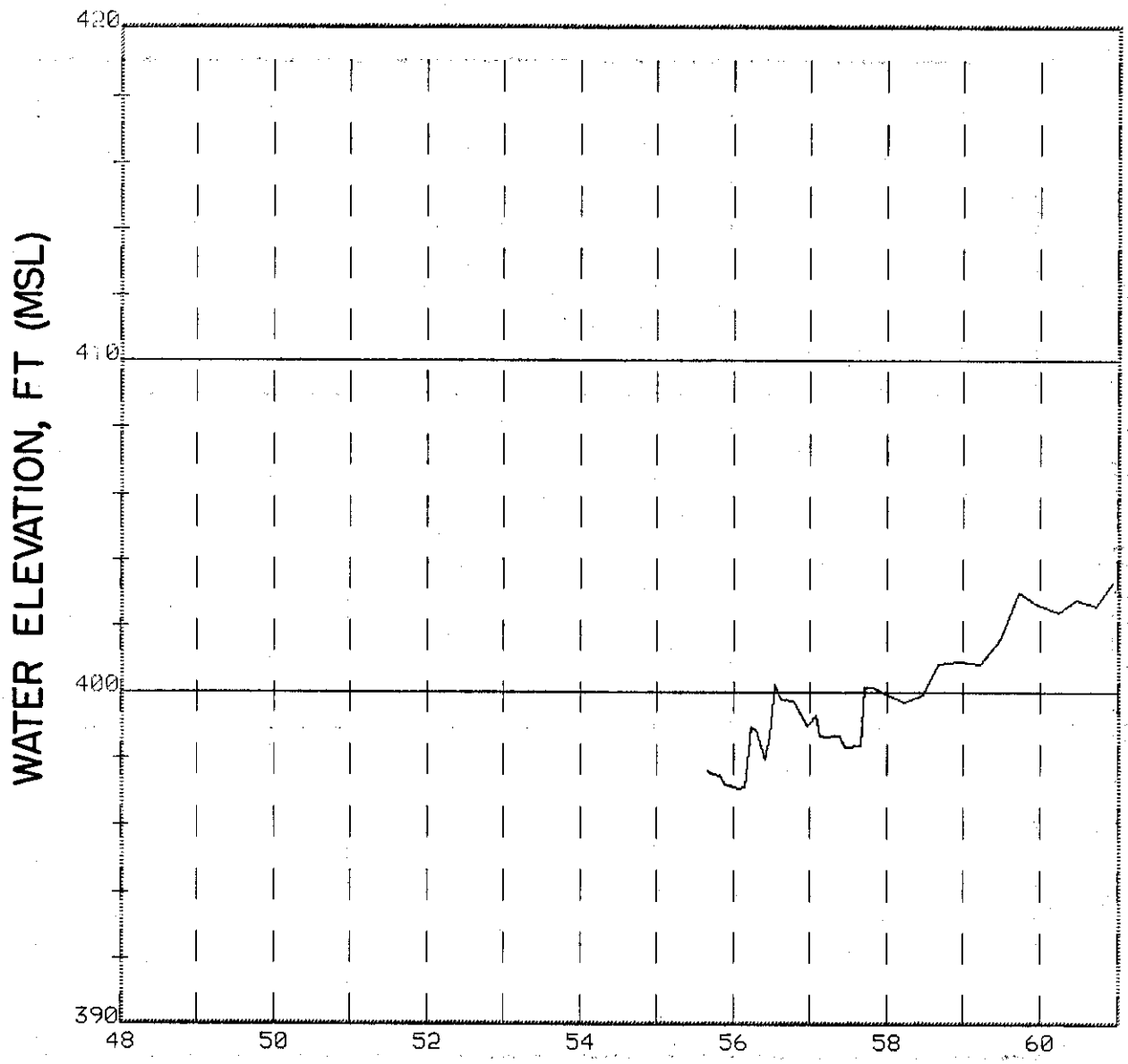

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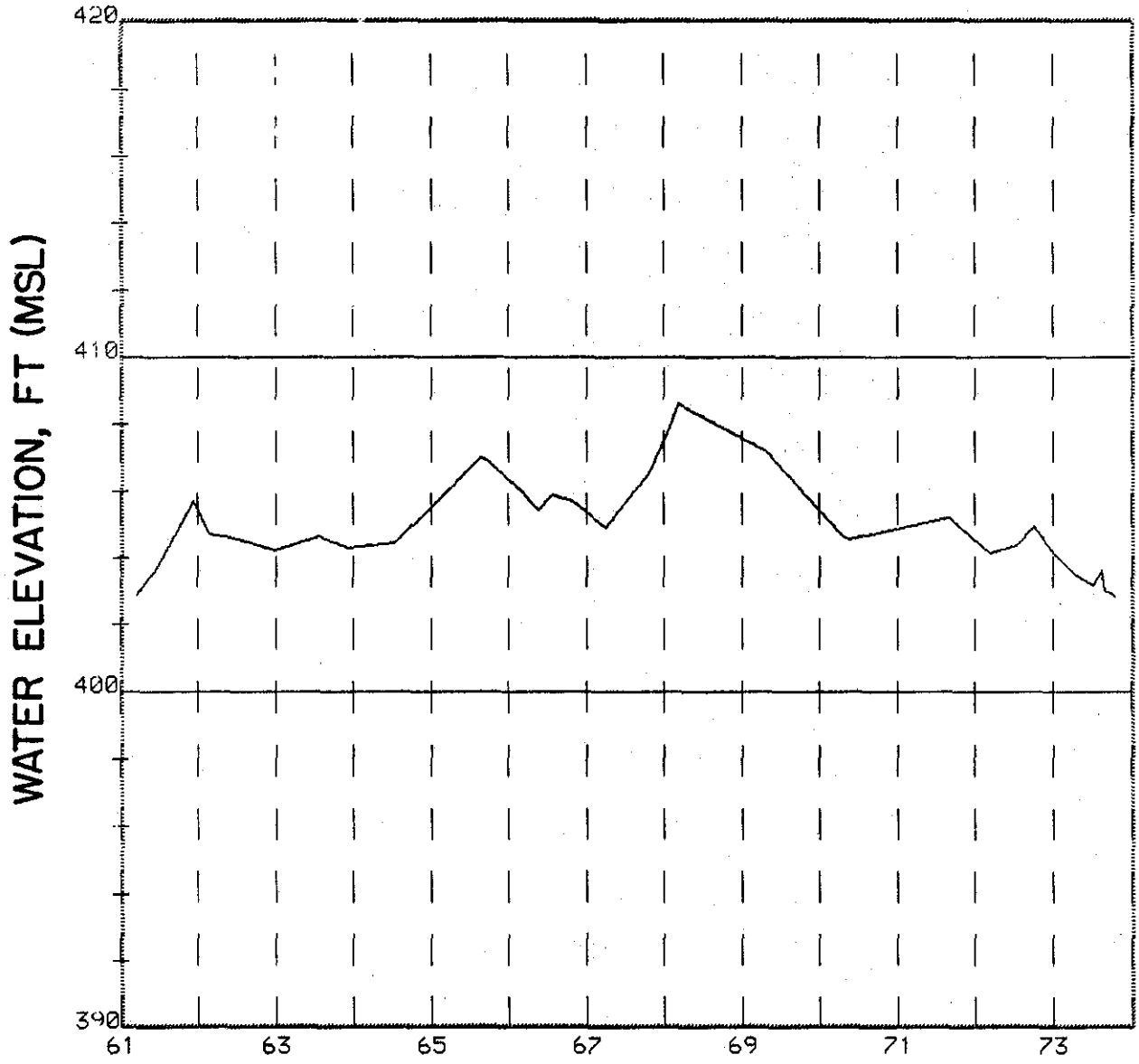

WELL NUMBER 699 61 66

CASING ELEVATION = 523.03

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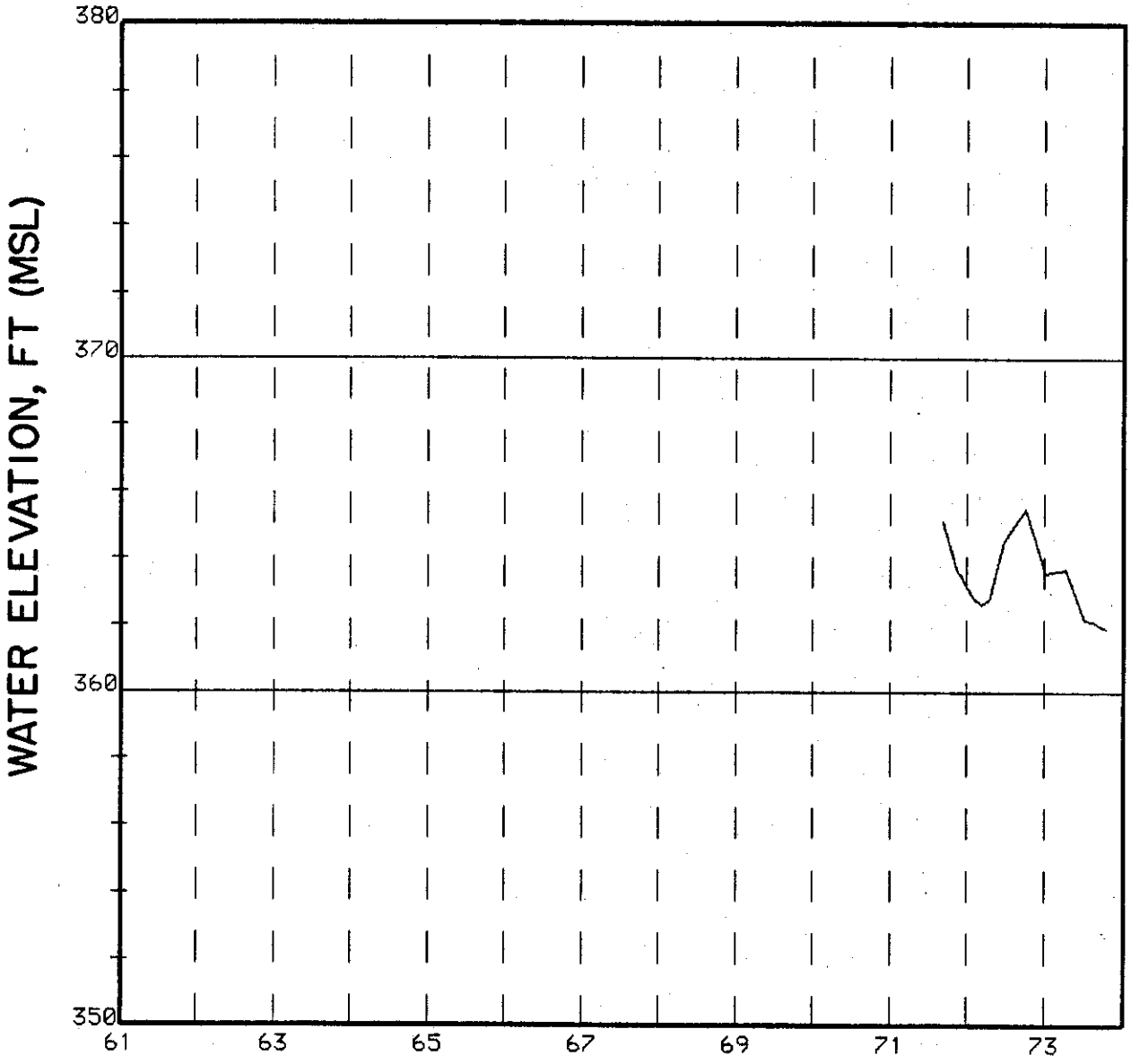

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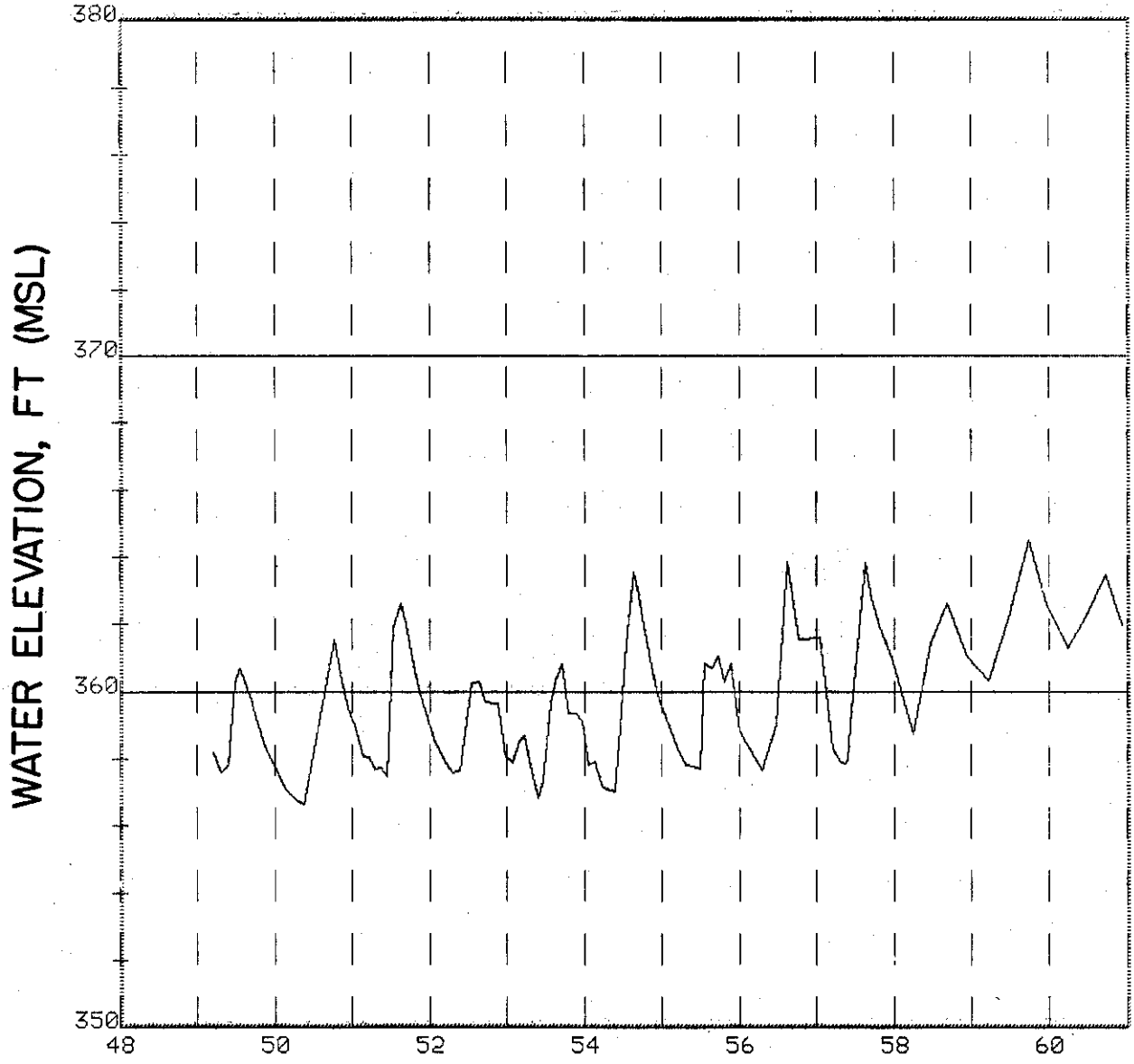
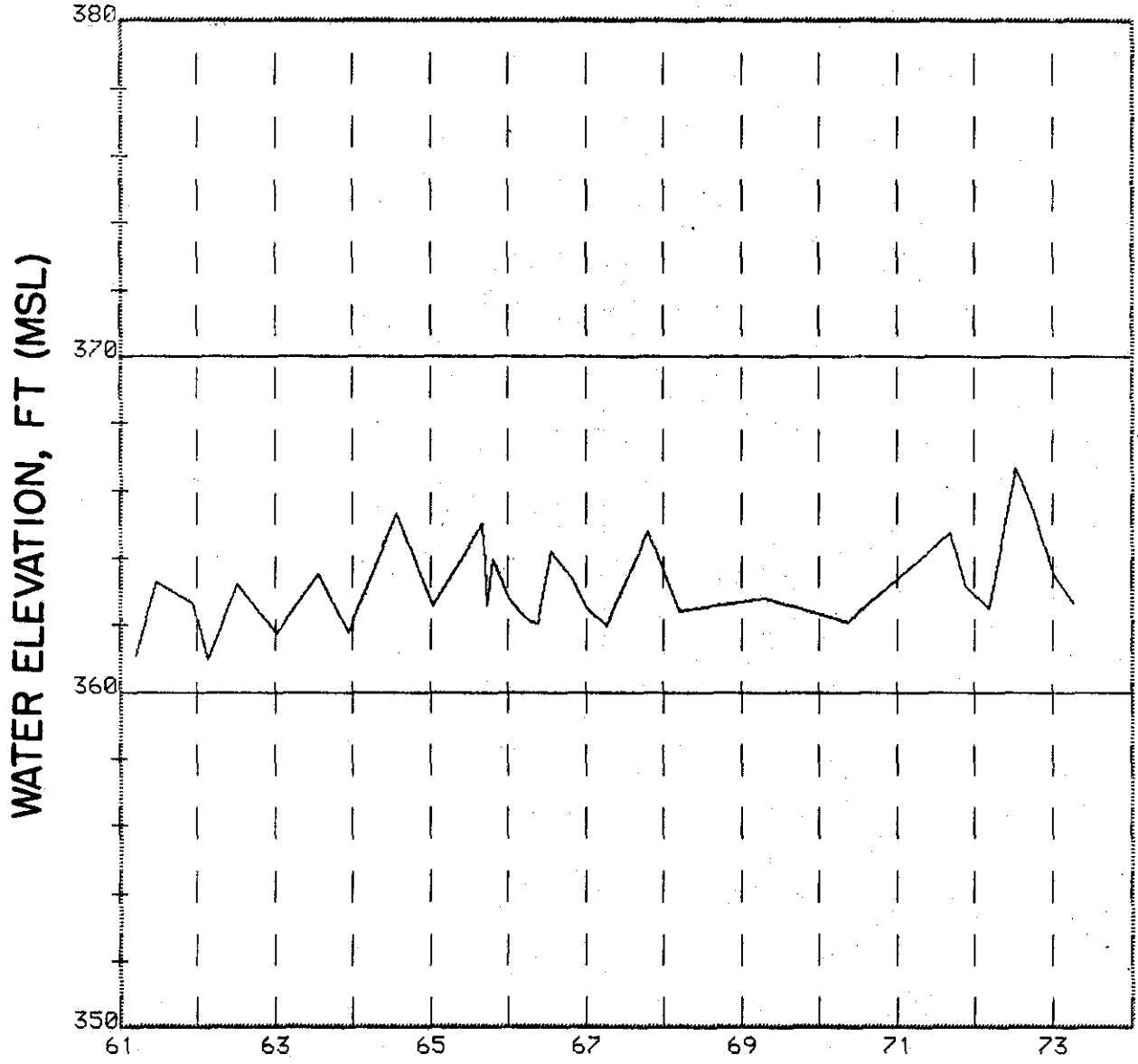


WELL NUMBER 699 62 32

CASING ELEVATION = 431.81



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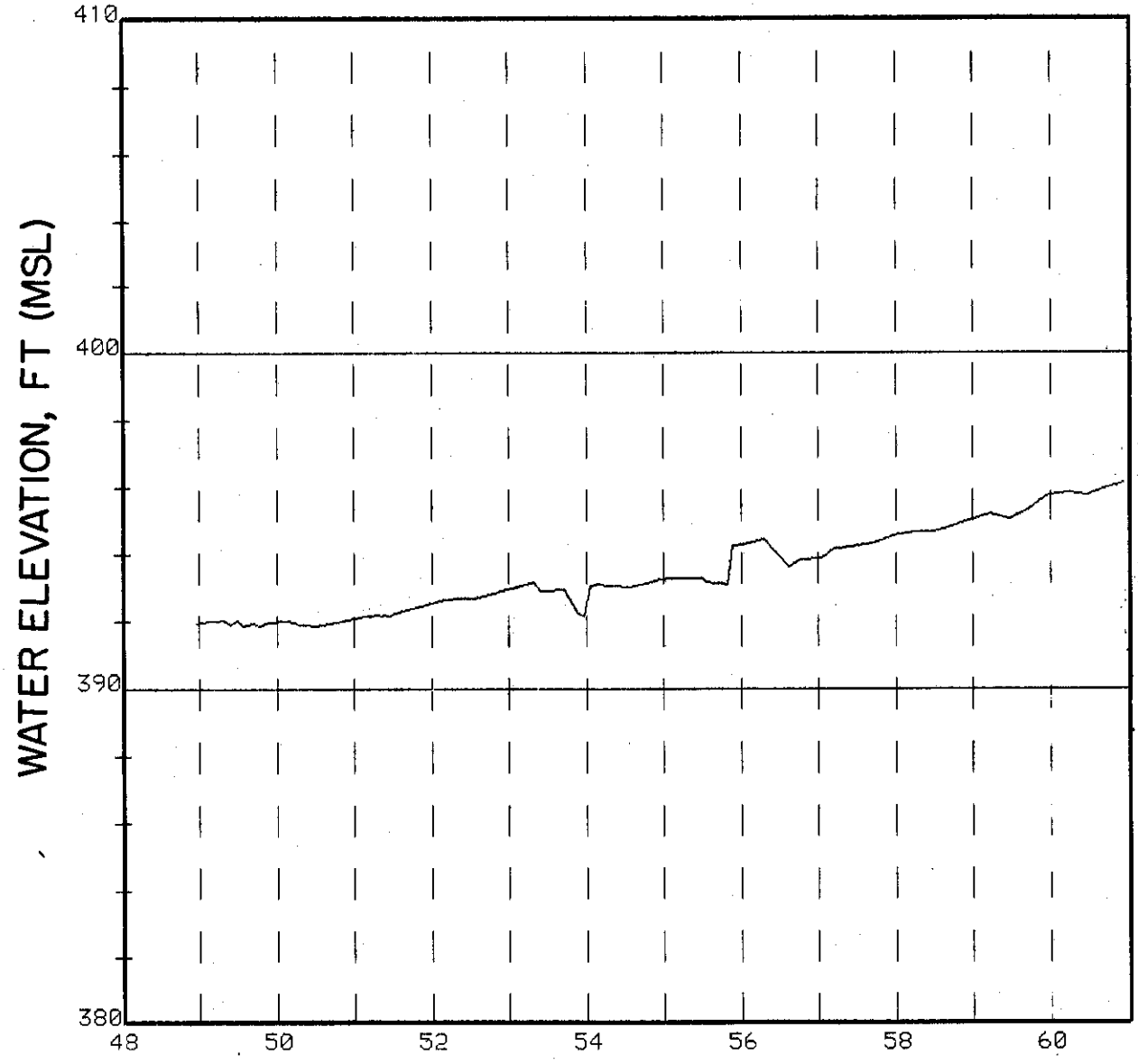

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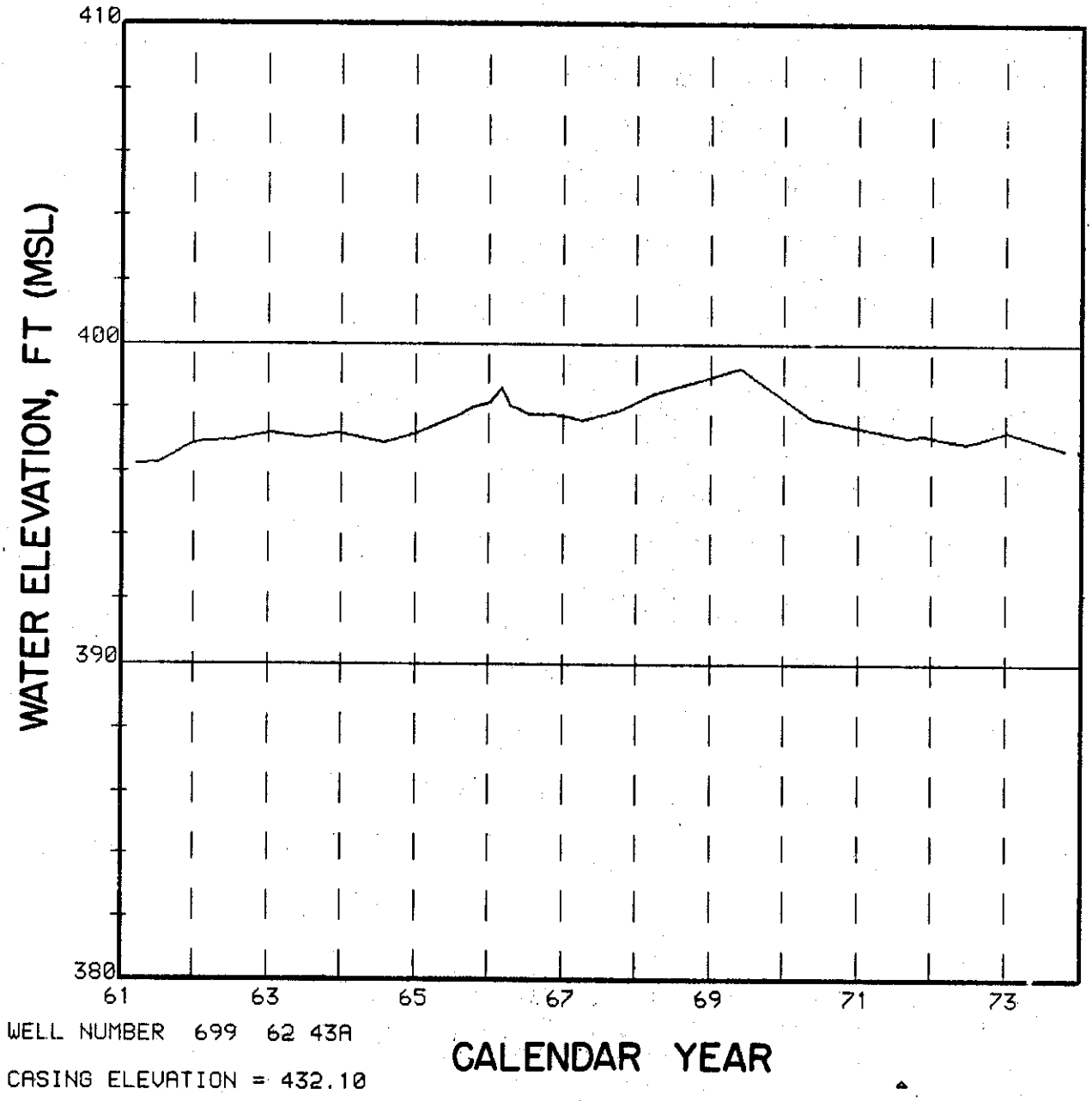

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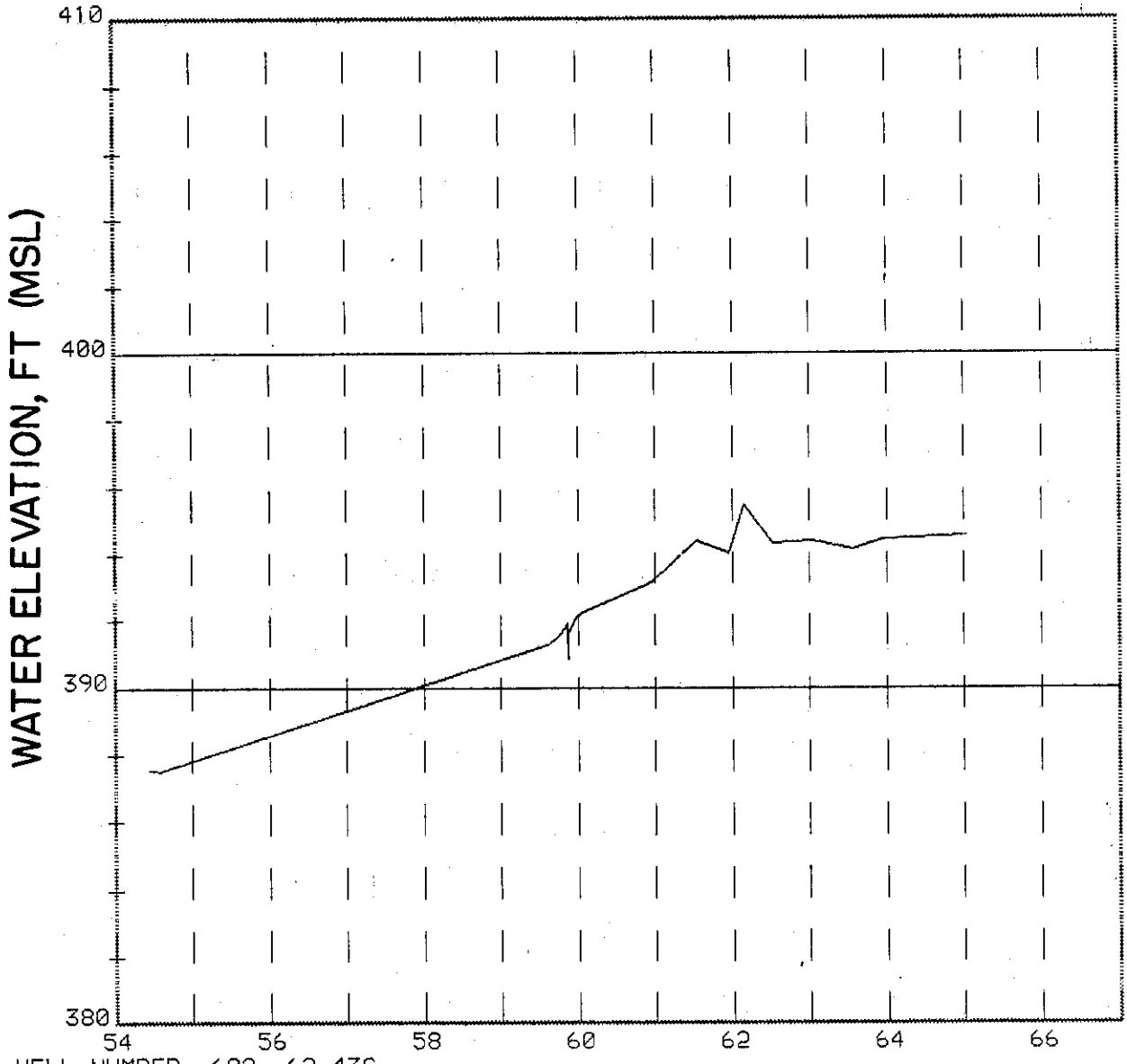

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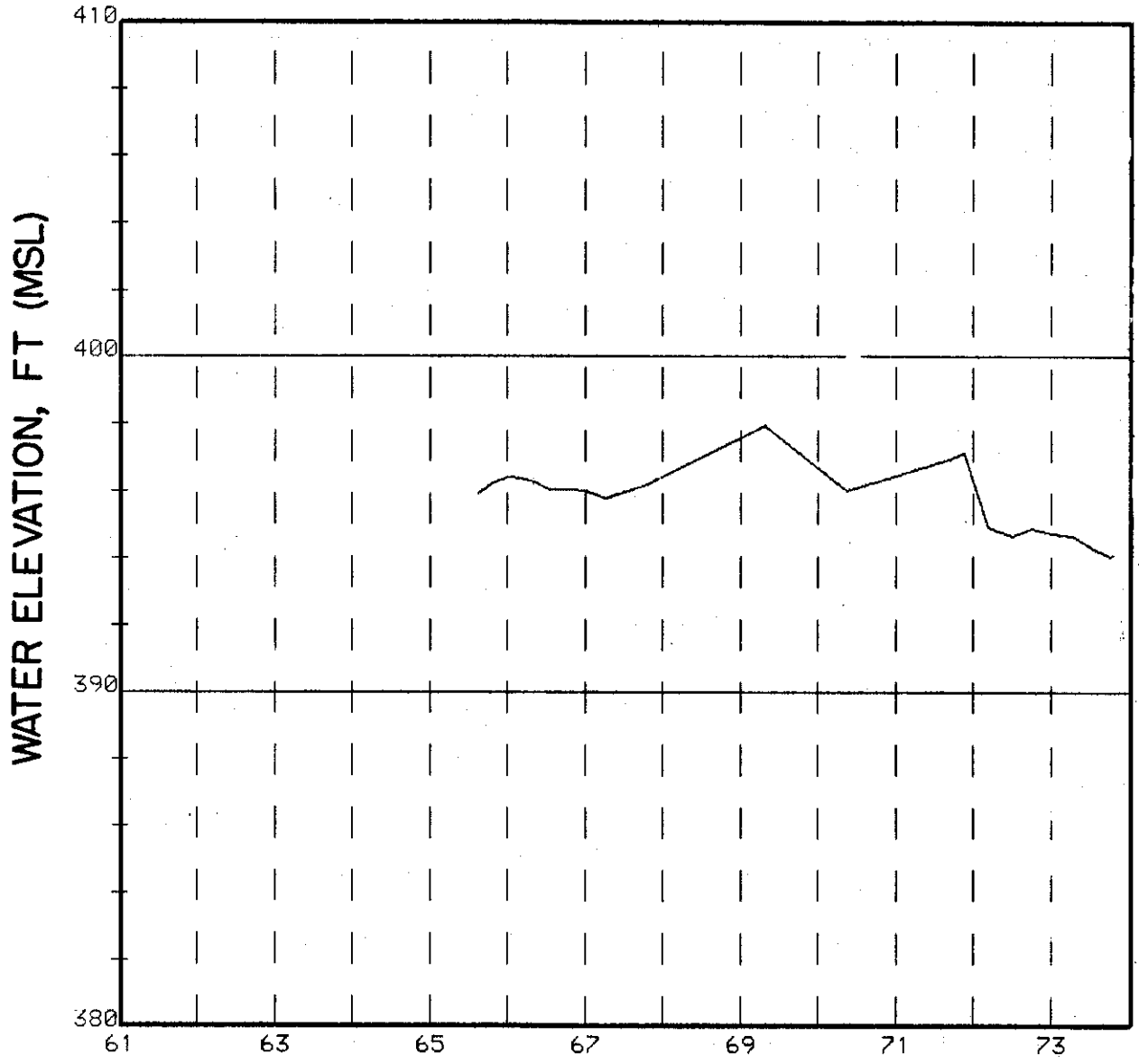

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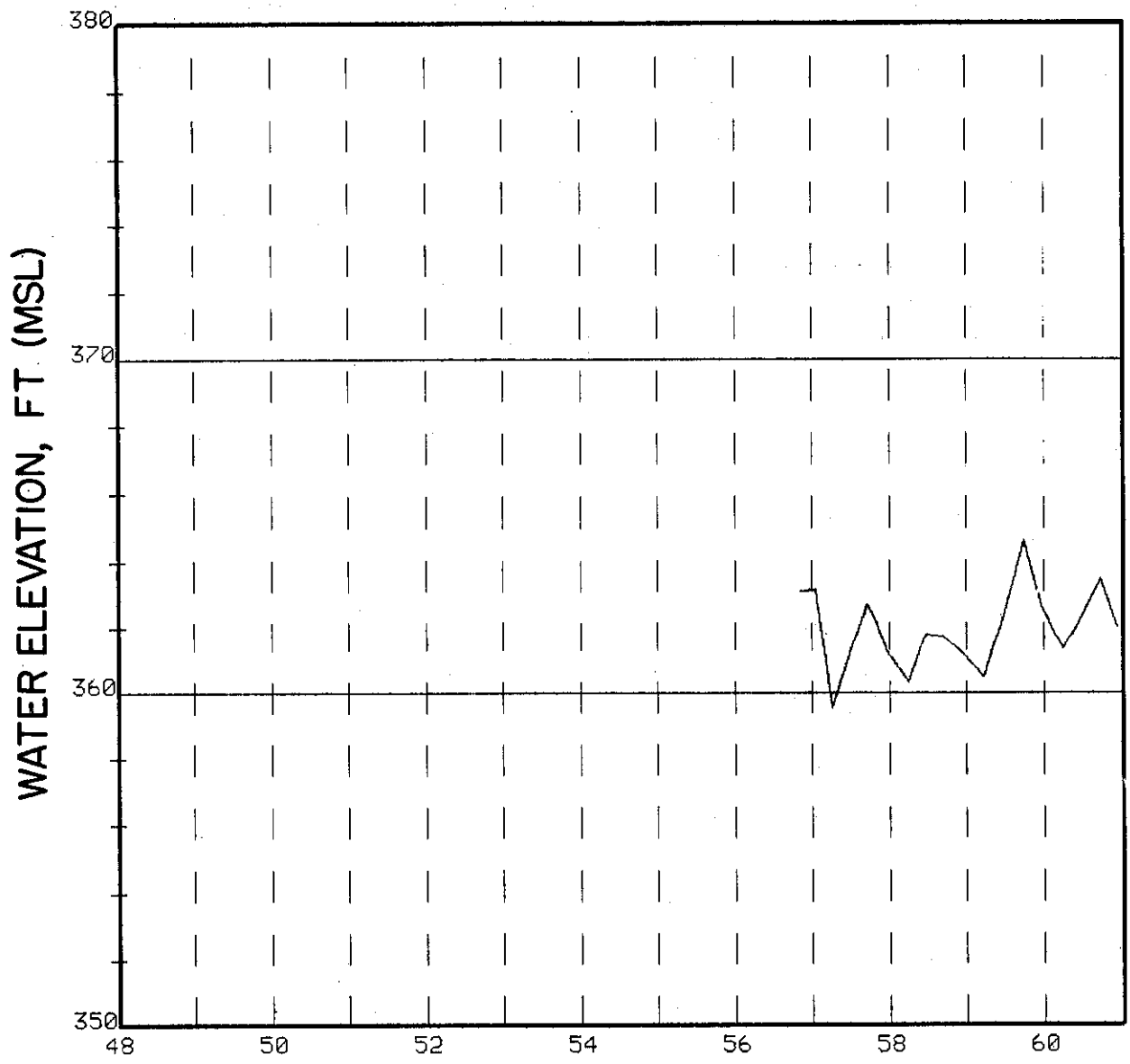

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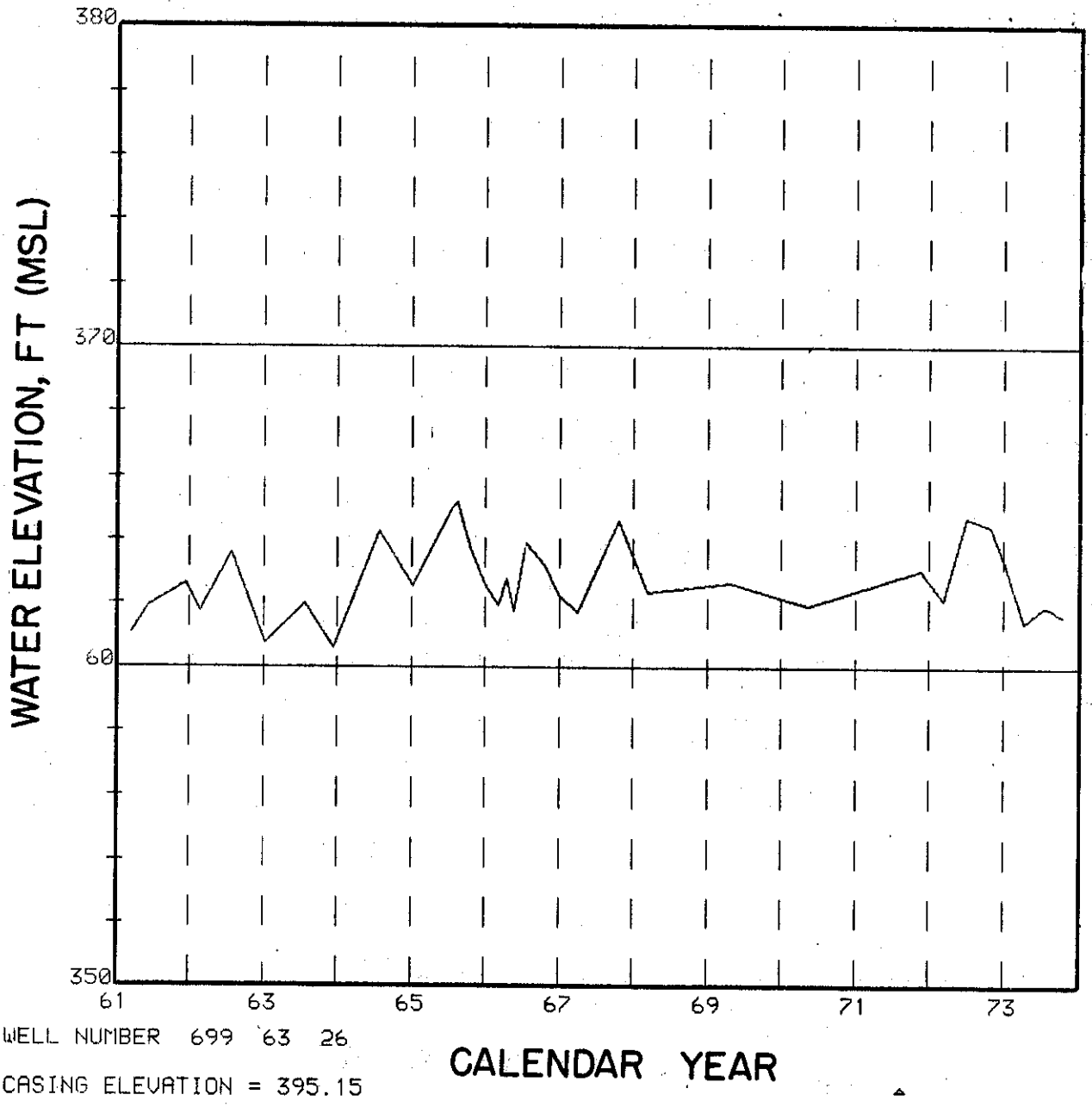

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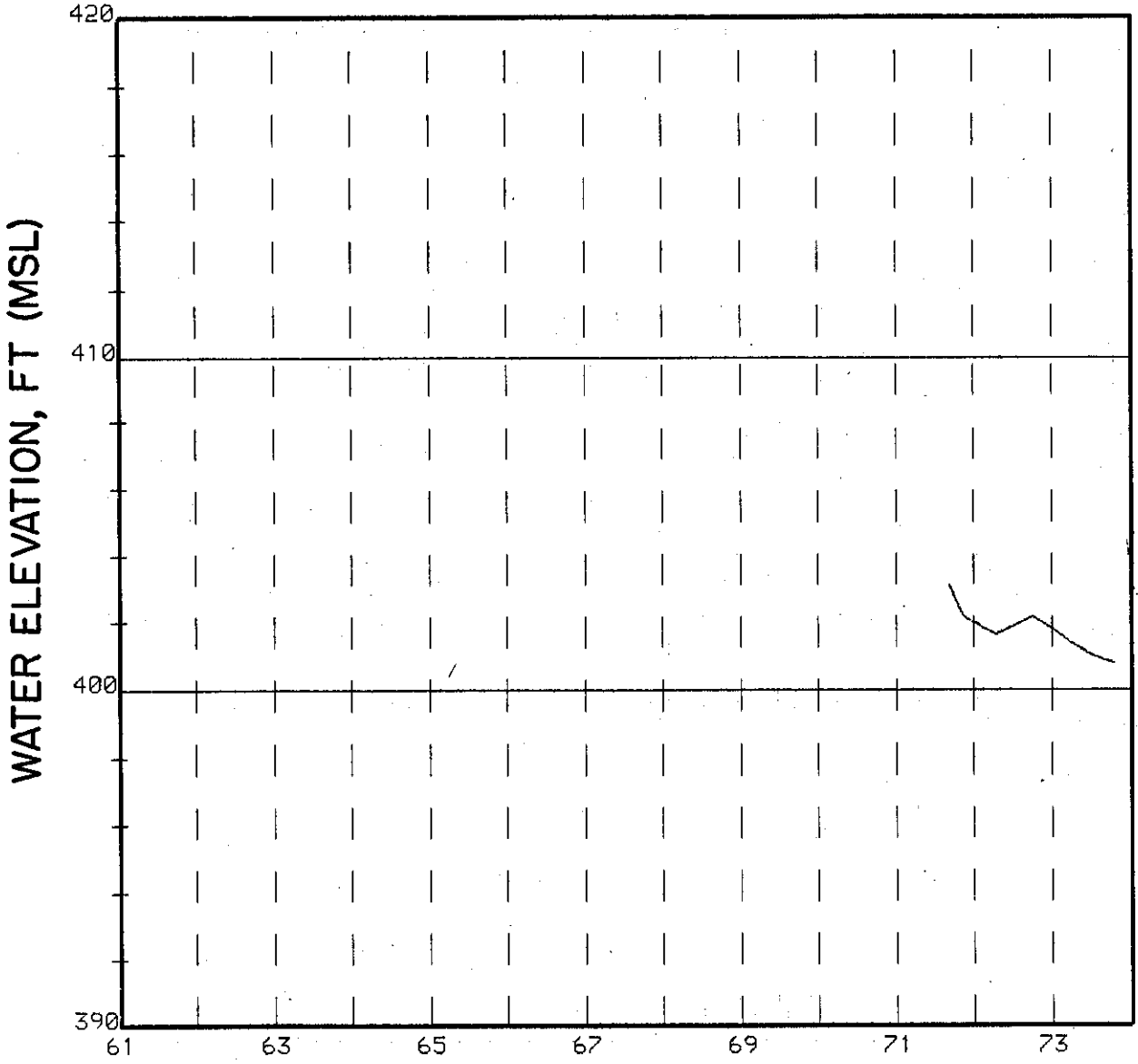

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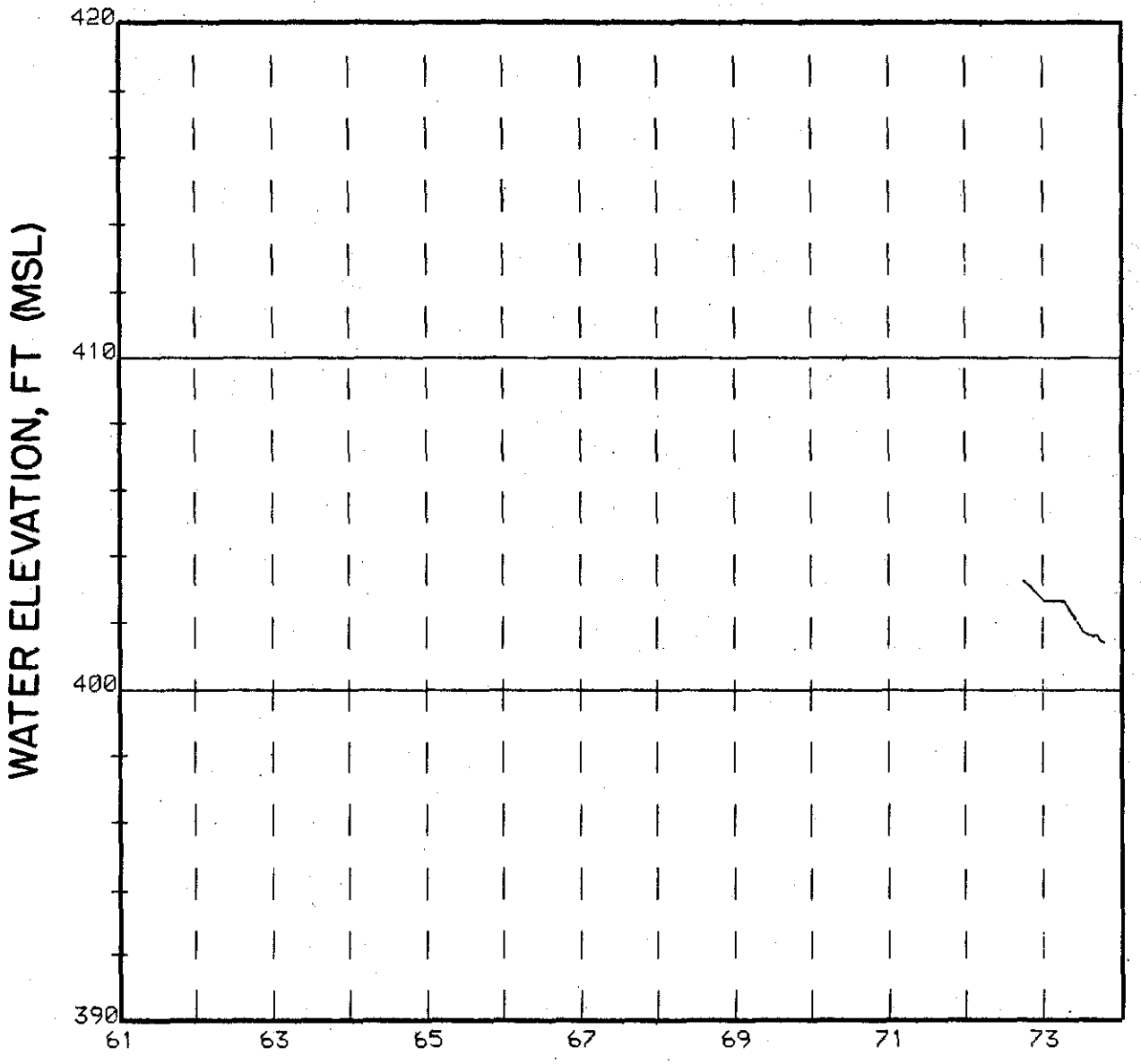

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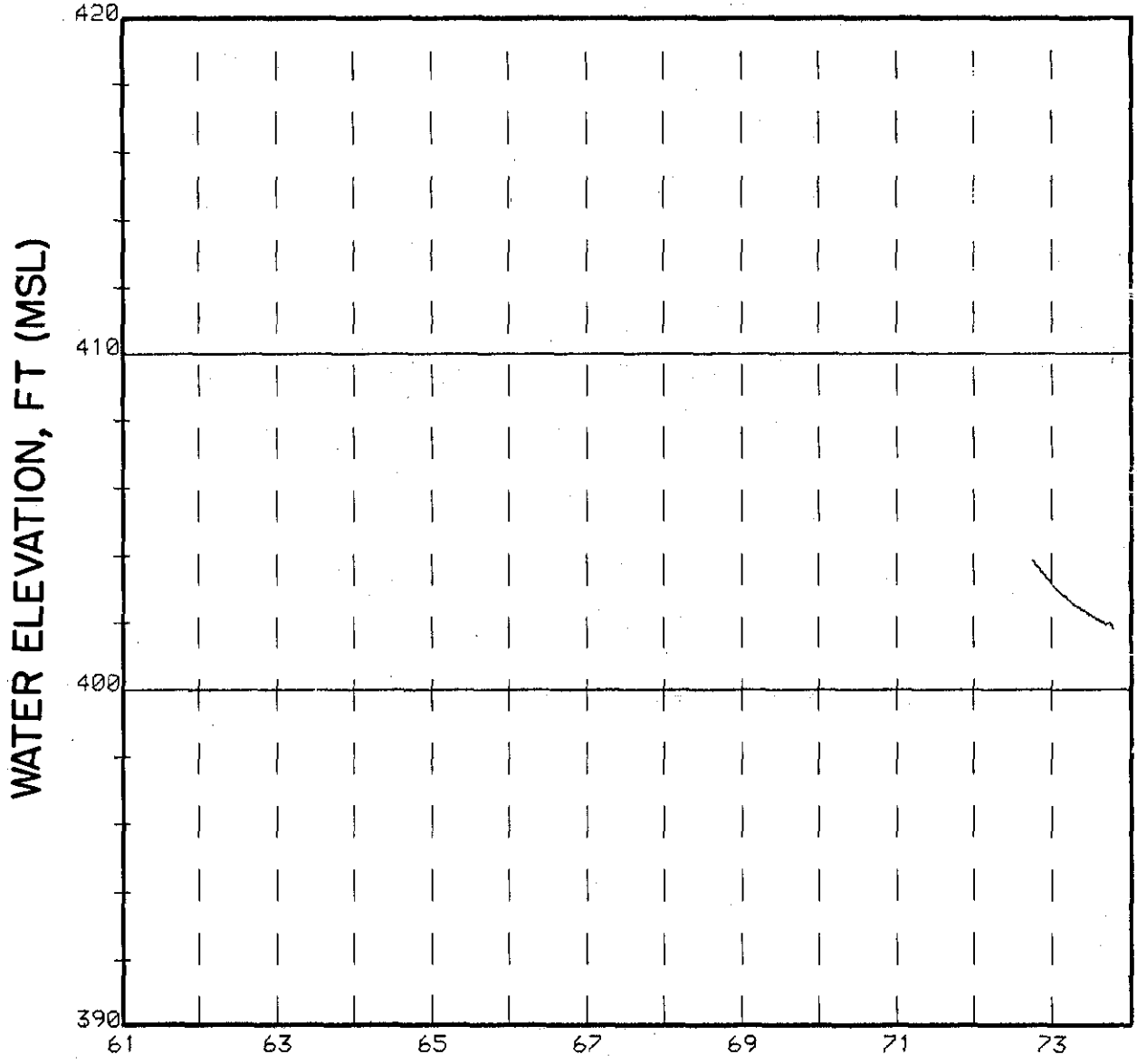

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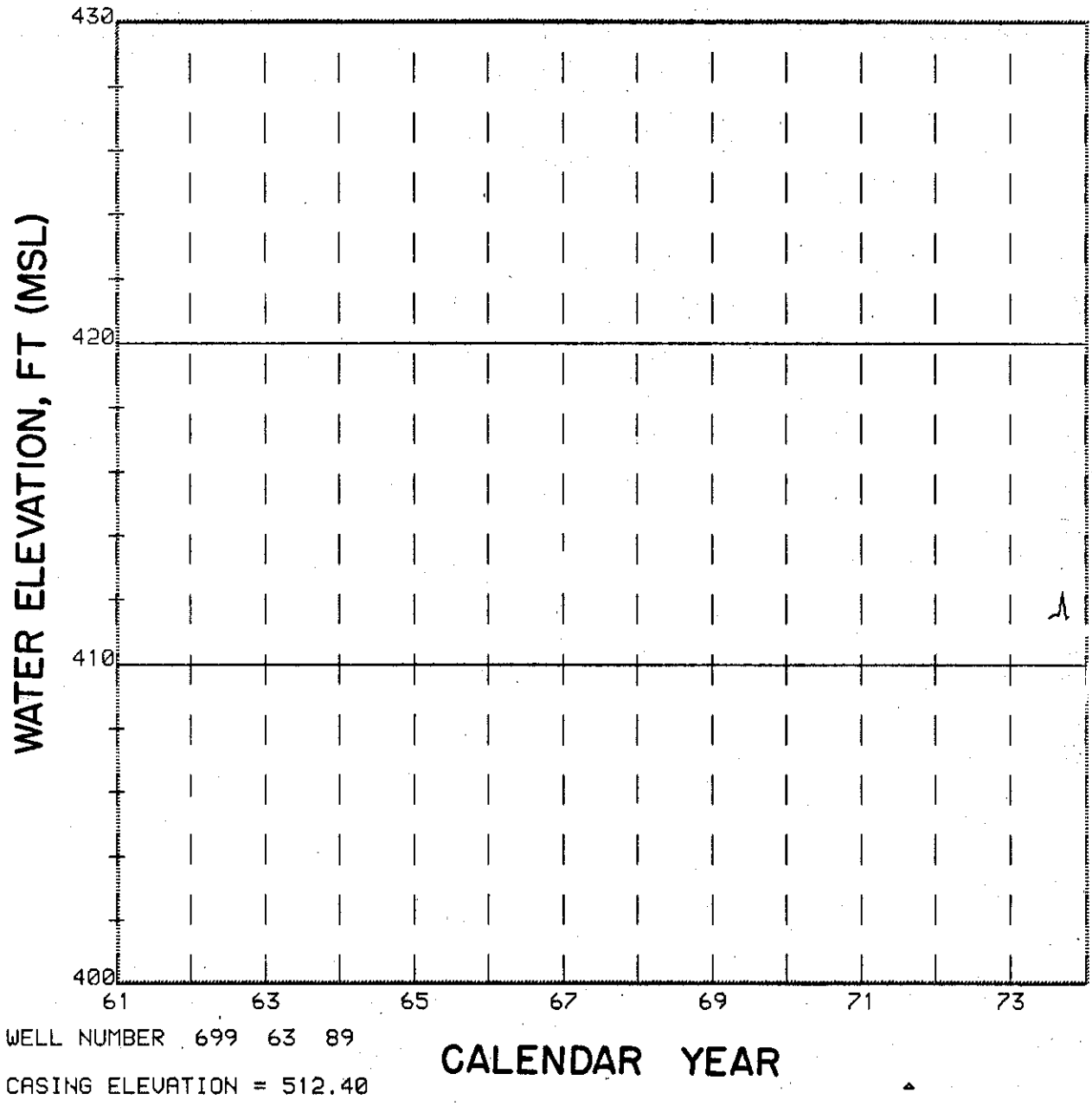

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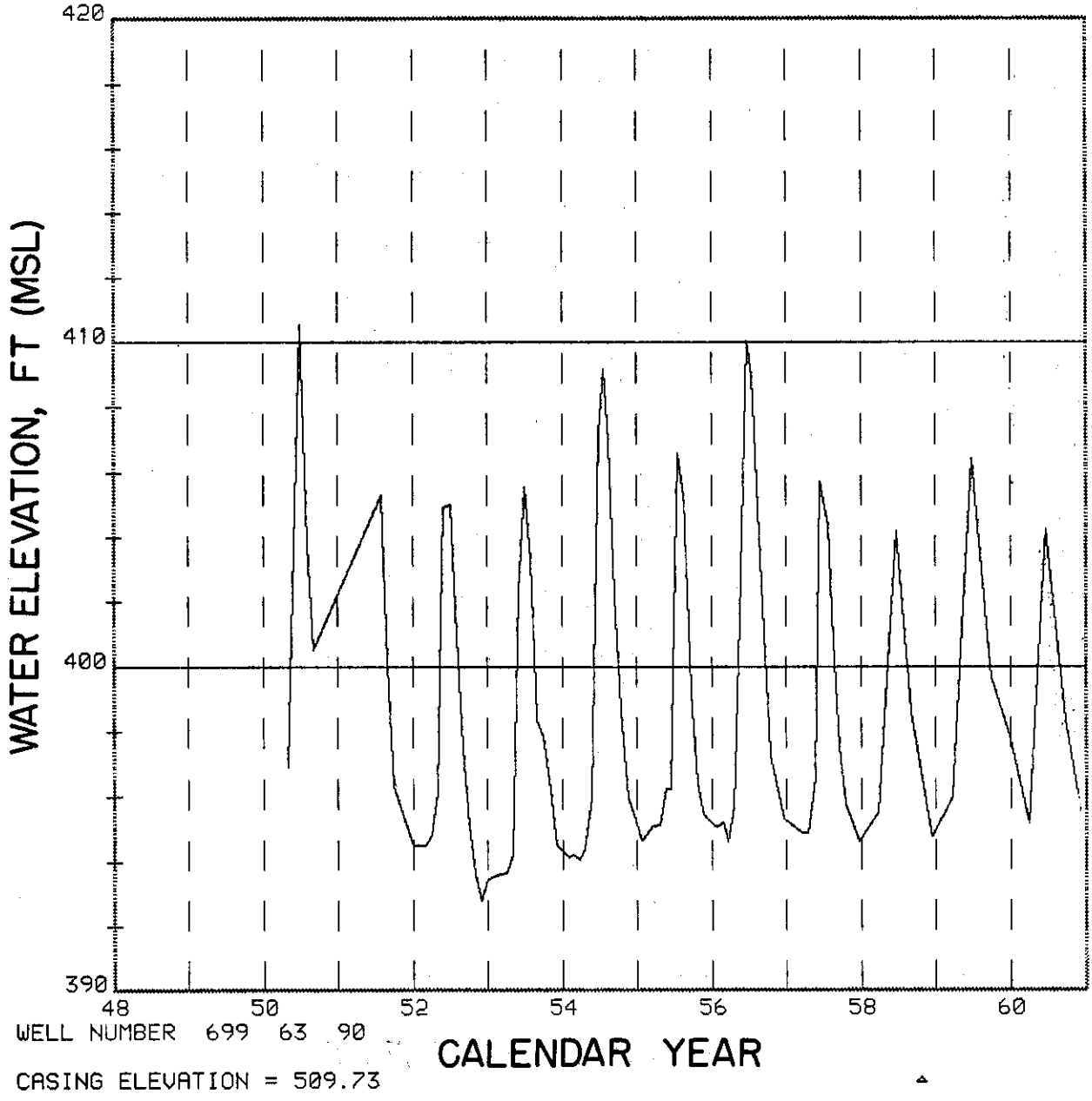
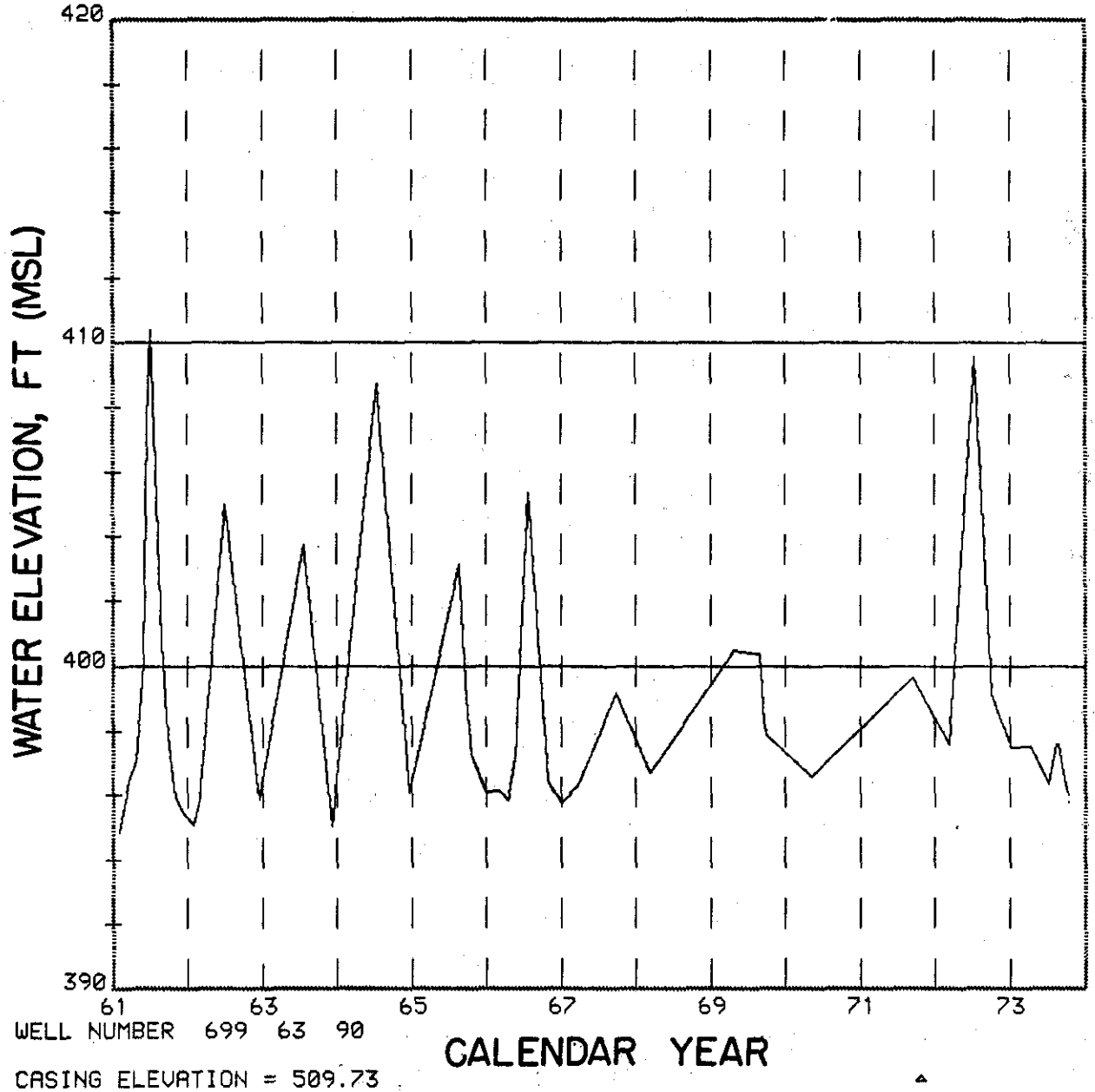

420
410
400
390
WATER ELEVATION, FT (MSL)
48
50
52
54
56
58
60
CALENDAR YEAR
WELL NUMBER 699 63 90
CASING ELEVATION = 509.73



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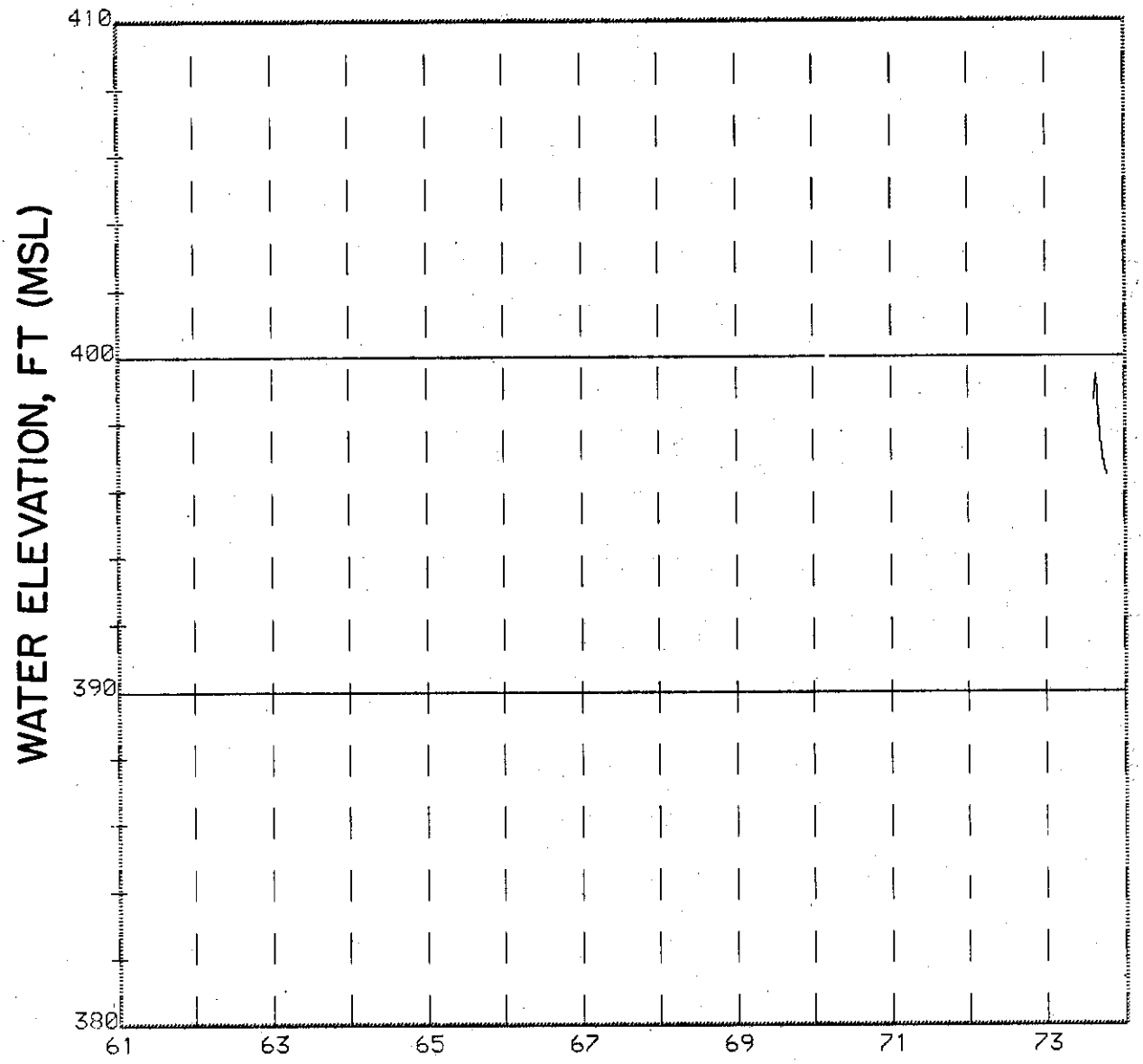

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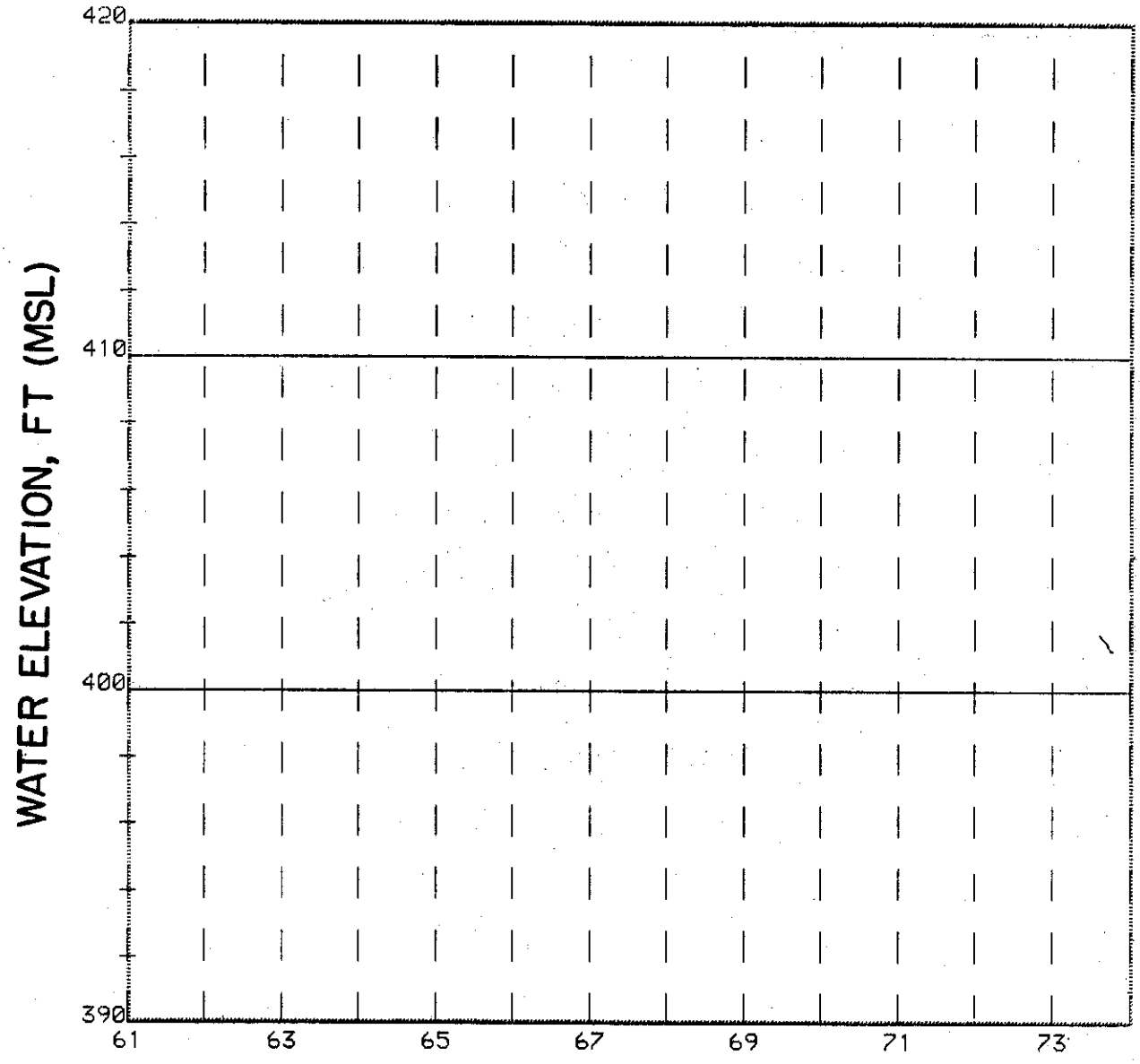
CASING ELEVATION = 497.50



WELL NUMBER 699 63 95

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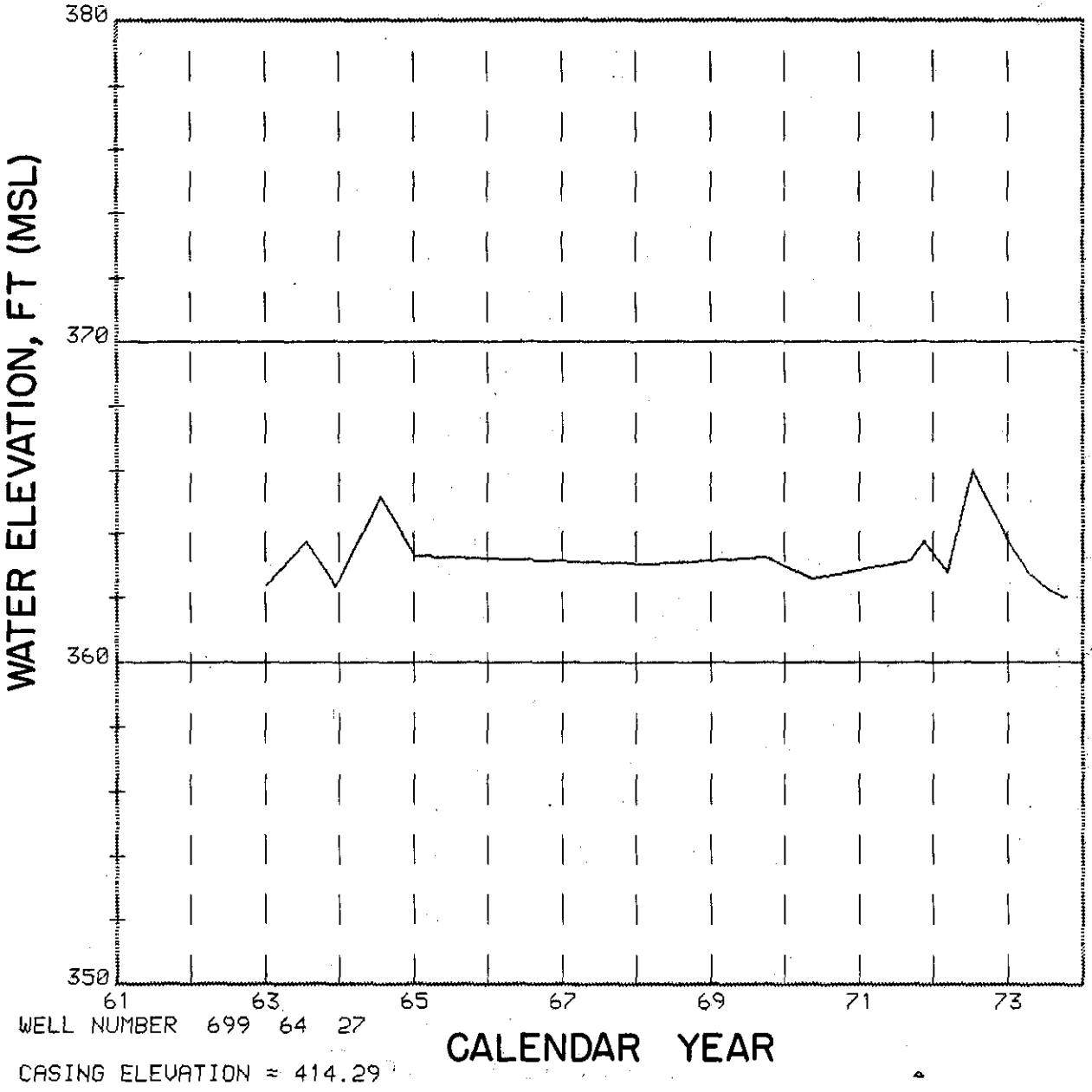

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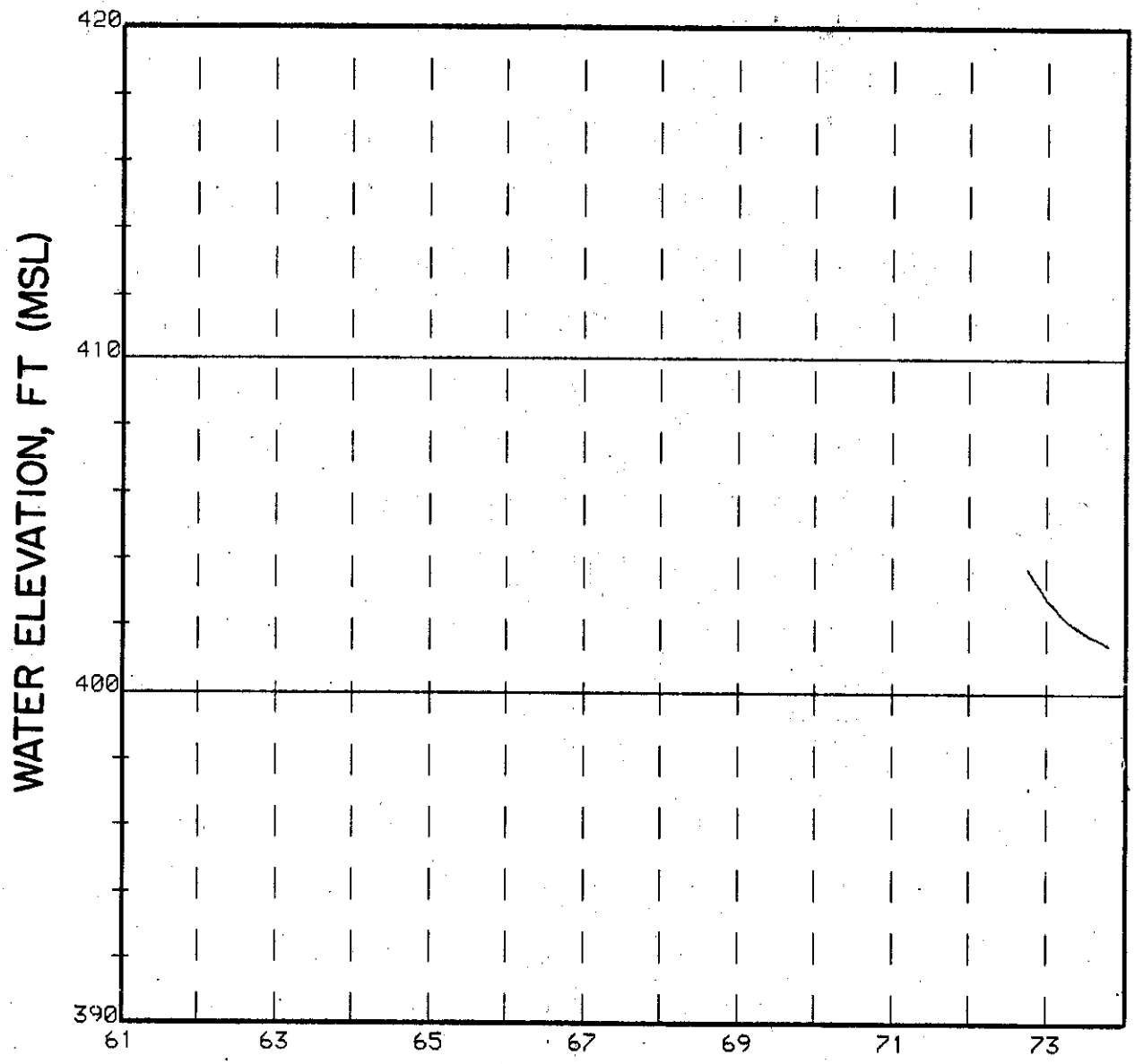

WELL NUMBER 699 64 62

CASING ELEVATION = 500.25

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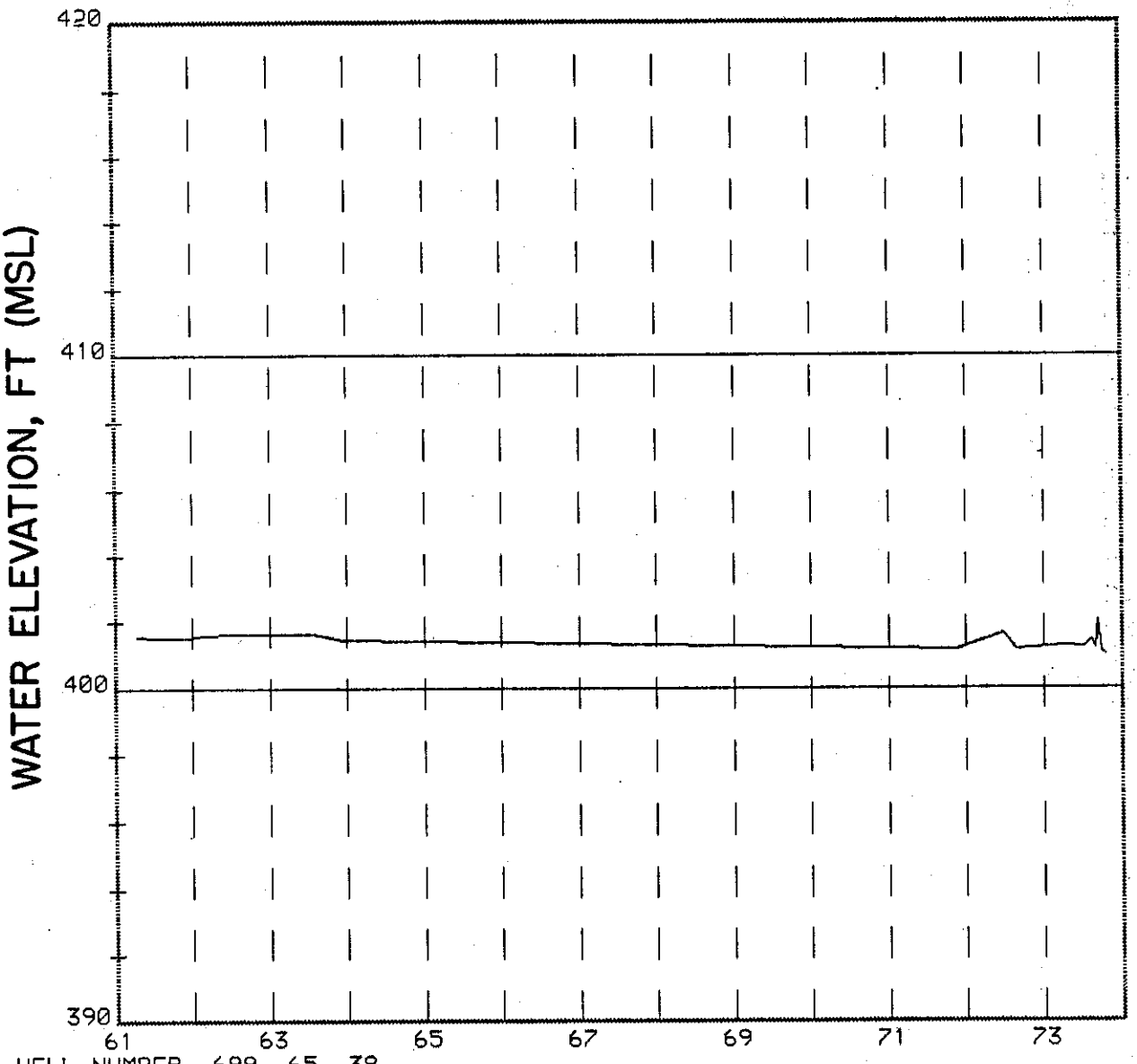

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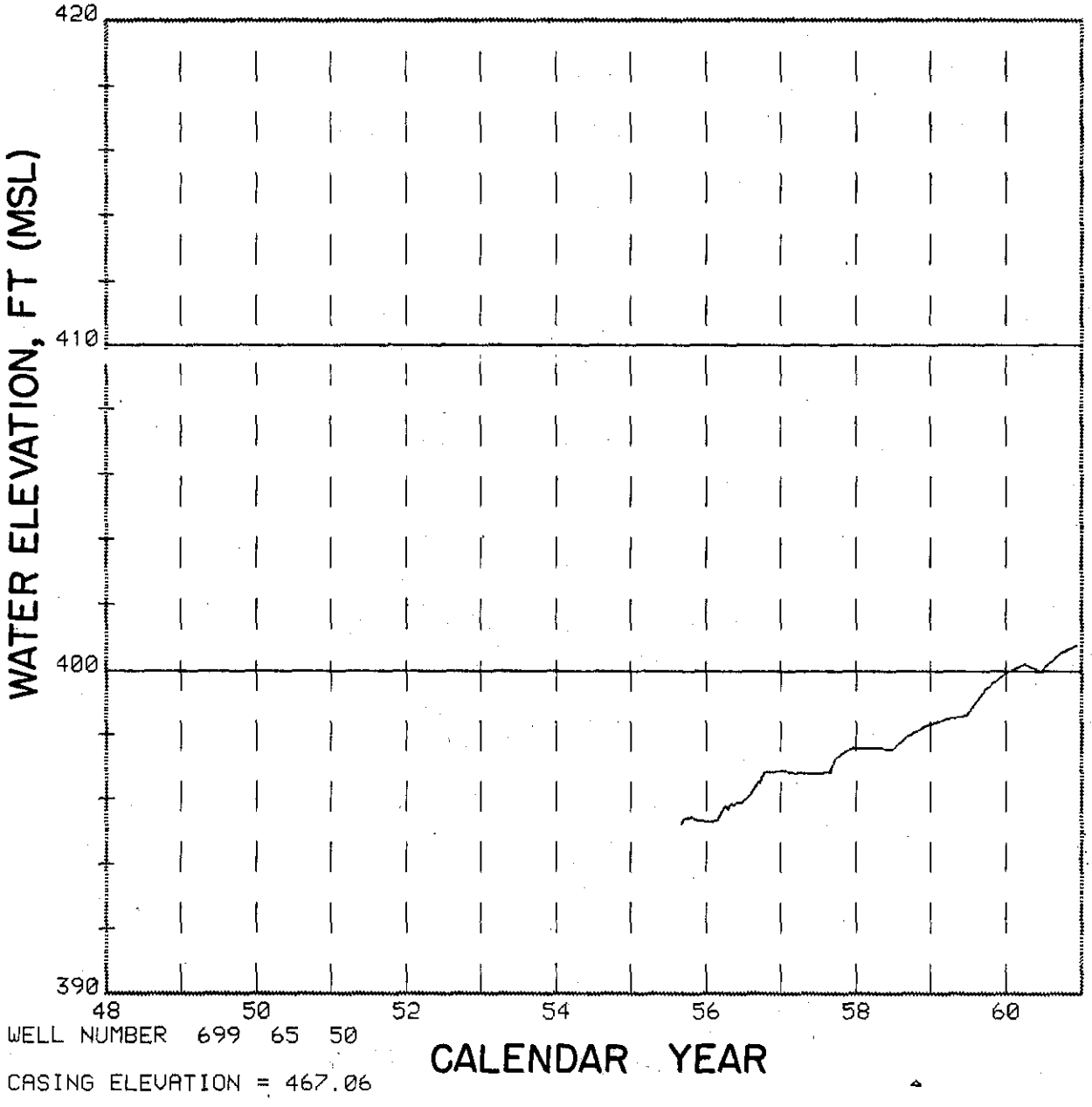
CASING ELEVATION = 433.55



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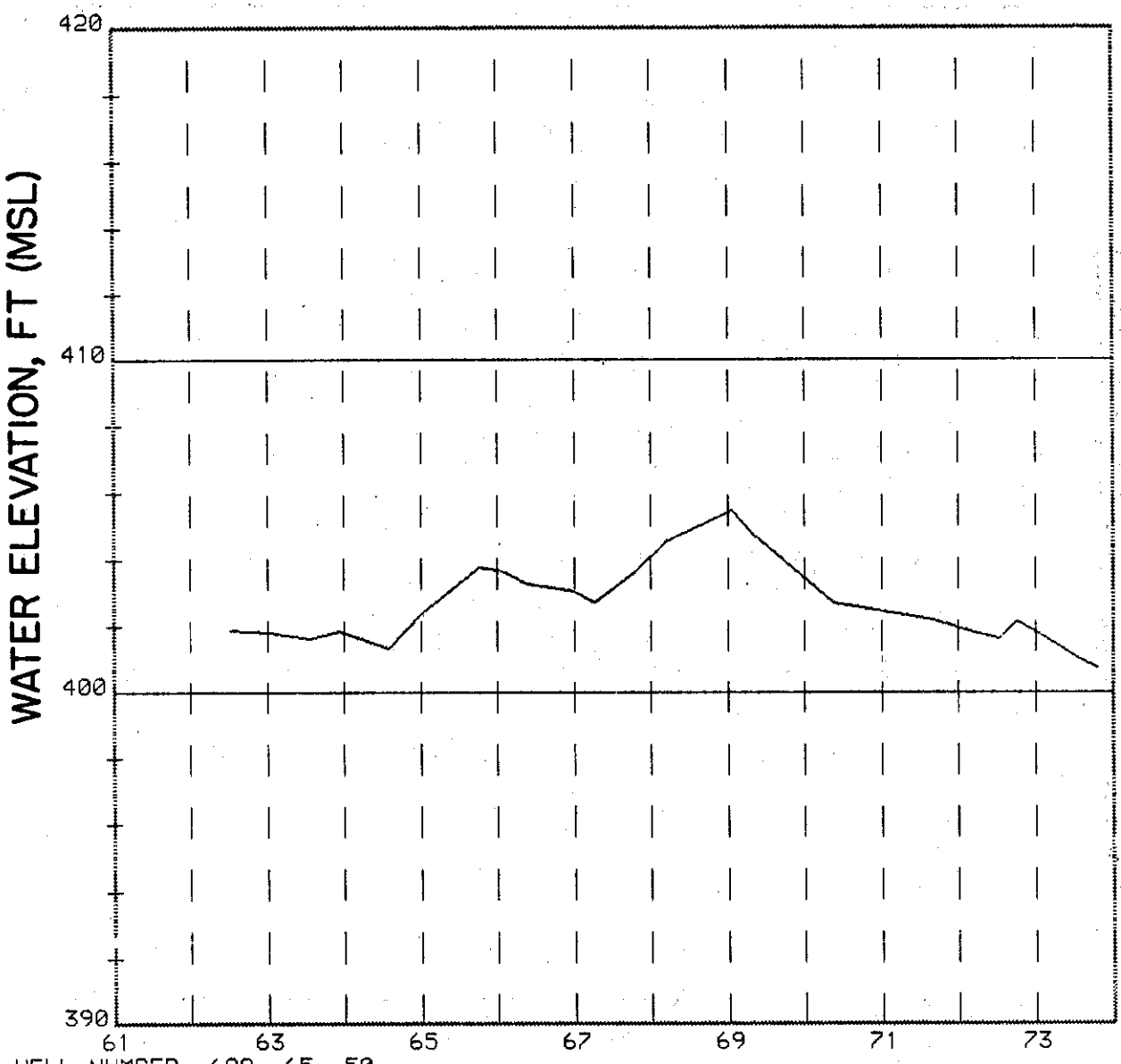

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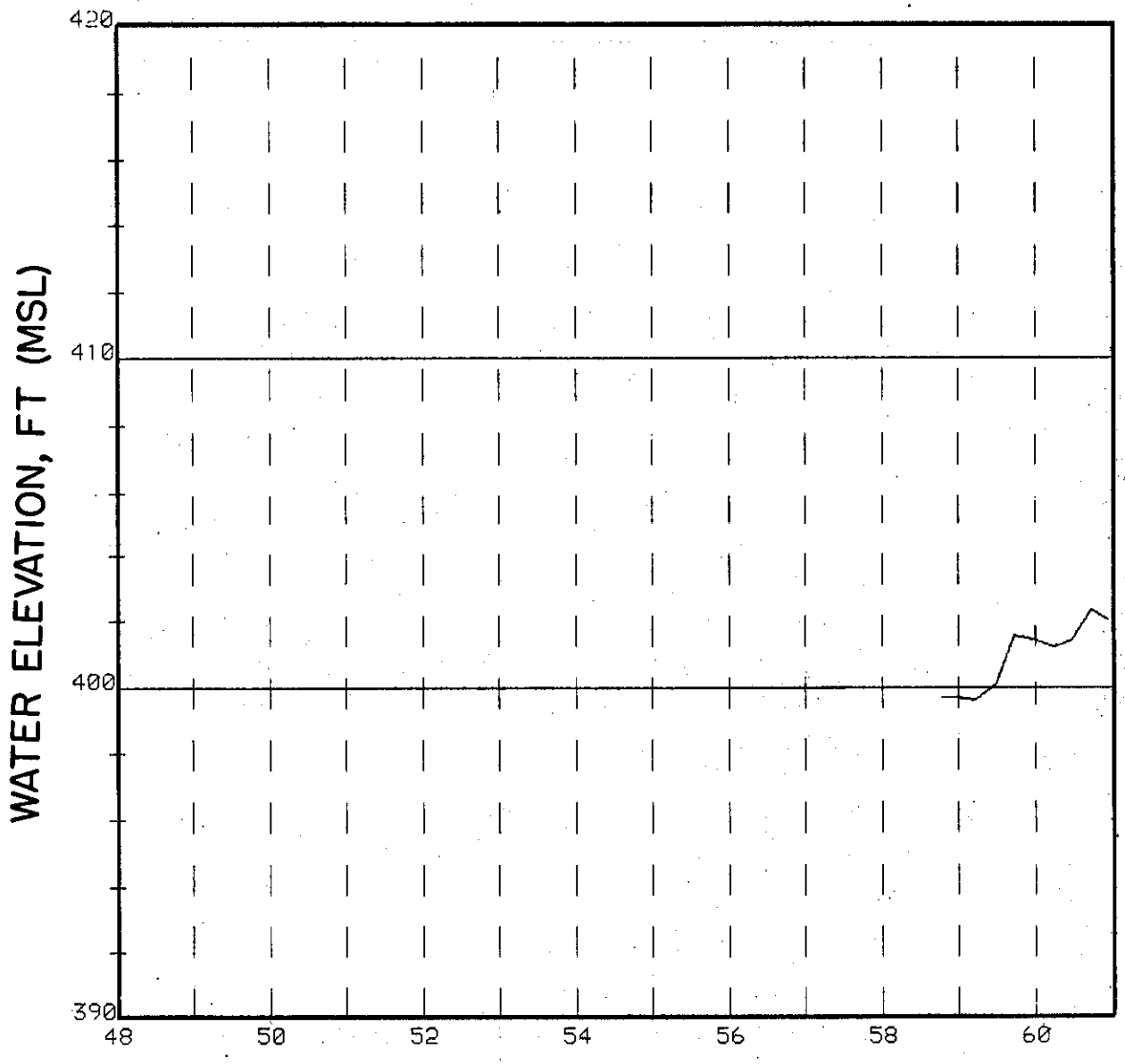

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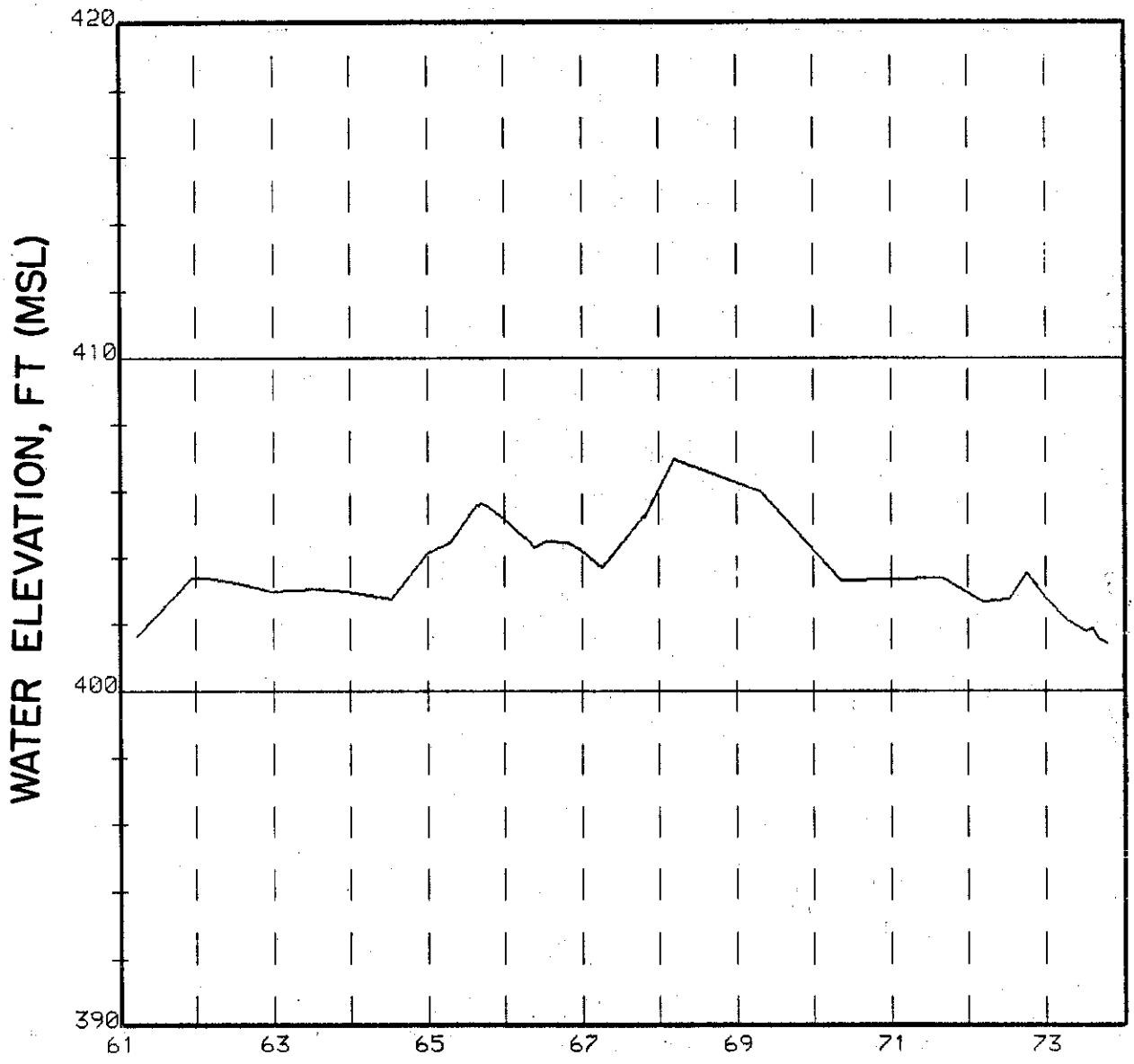

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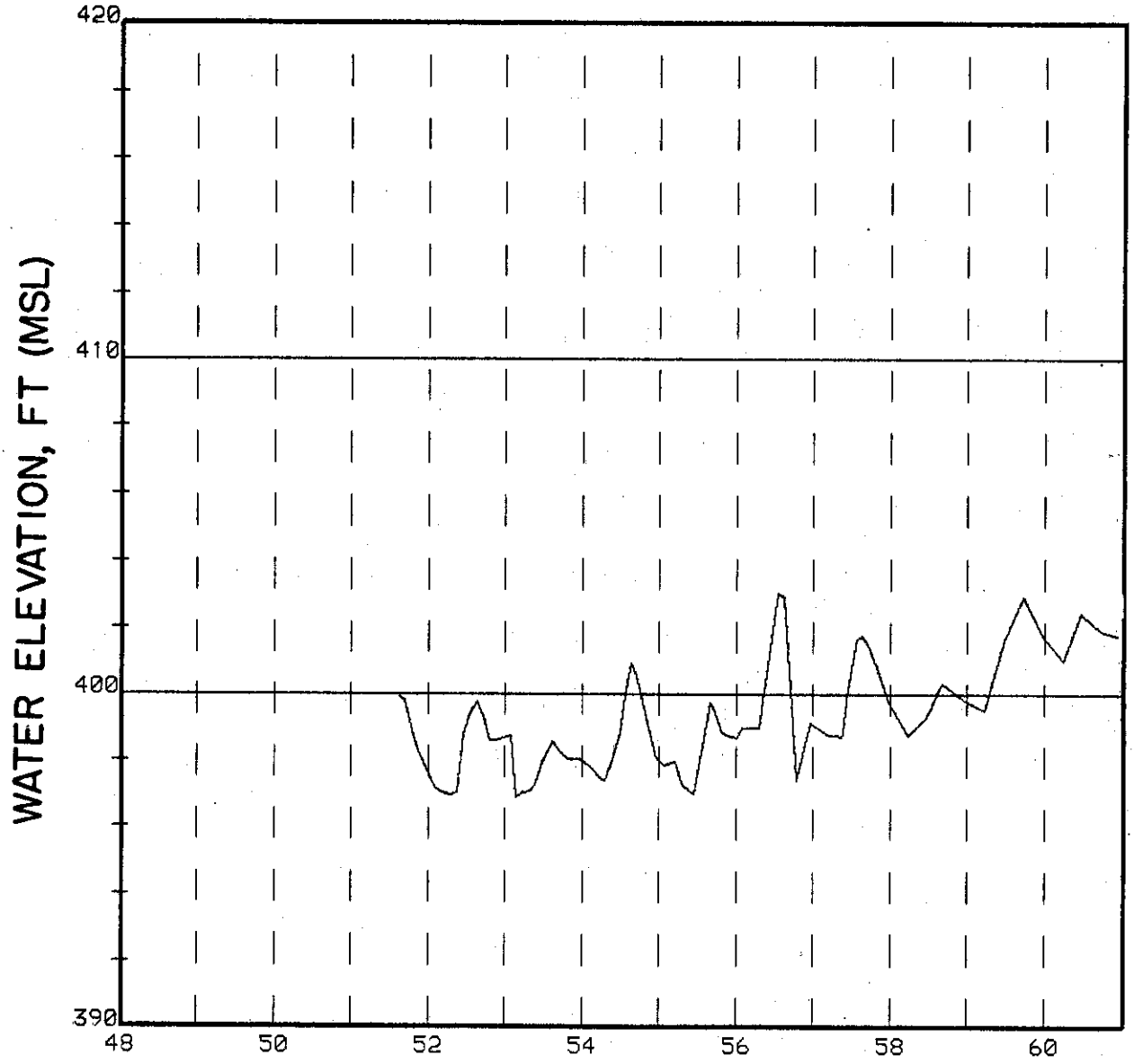

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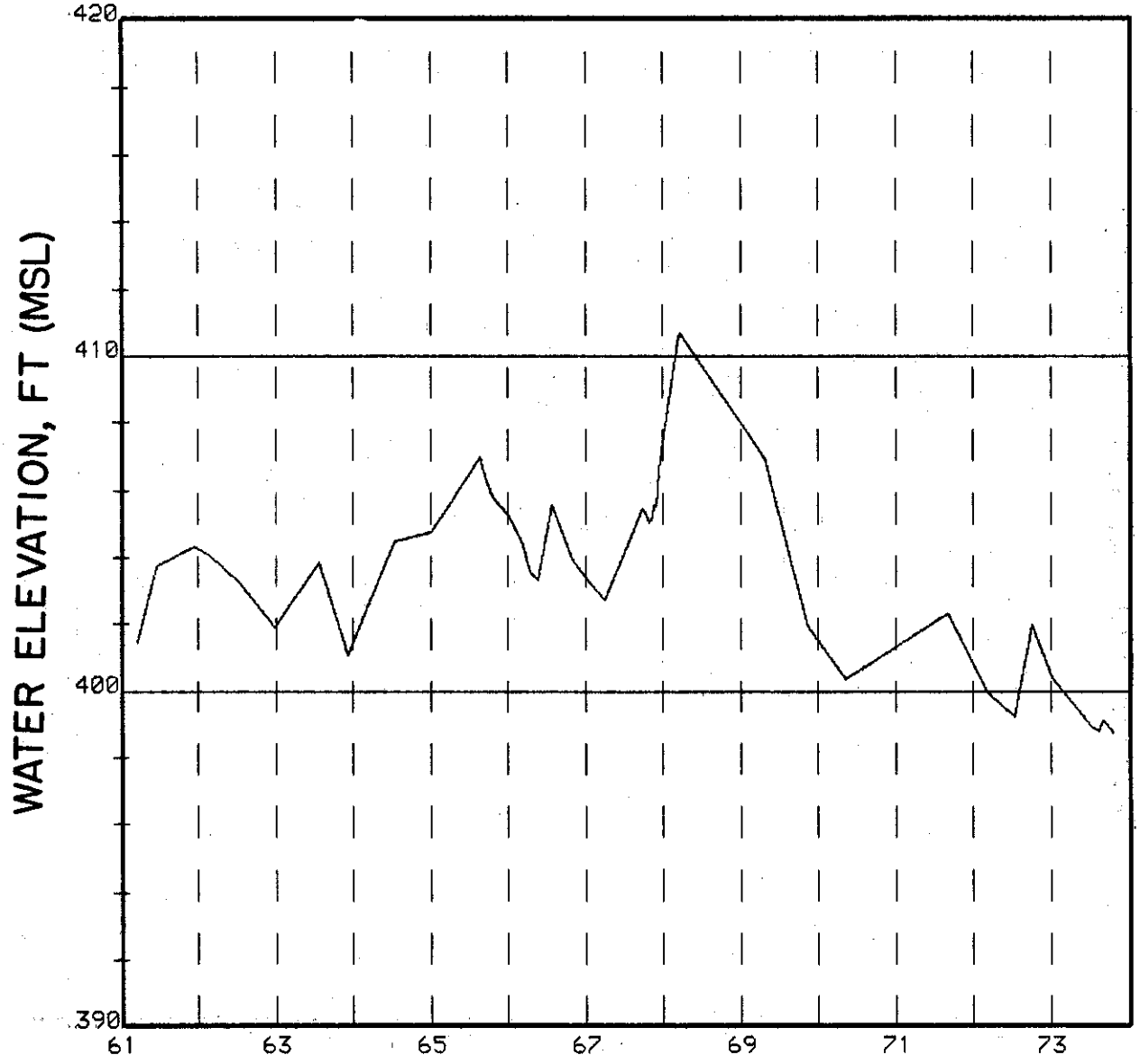

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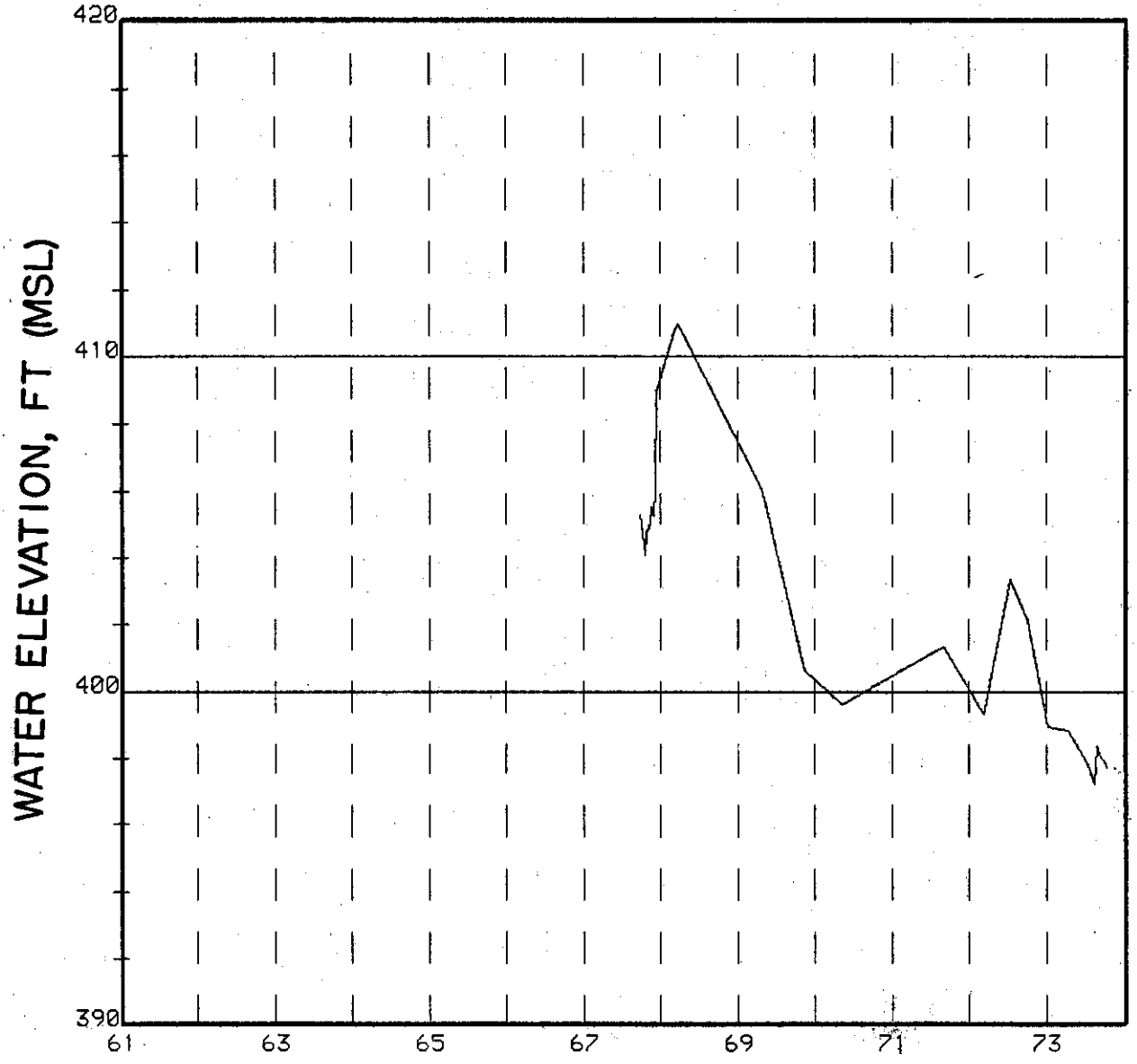

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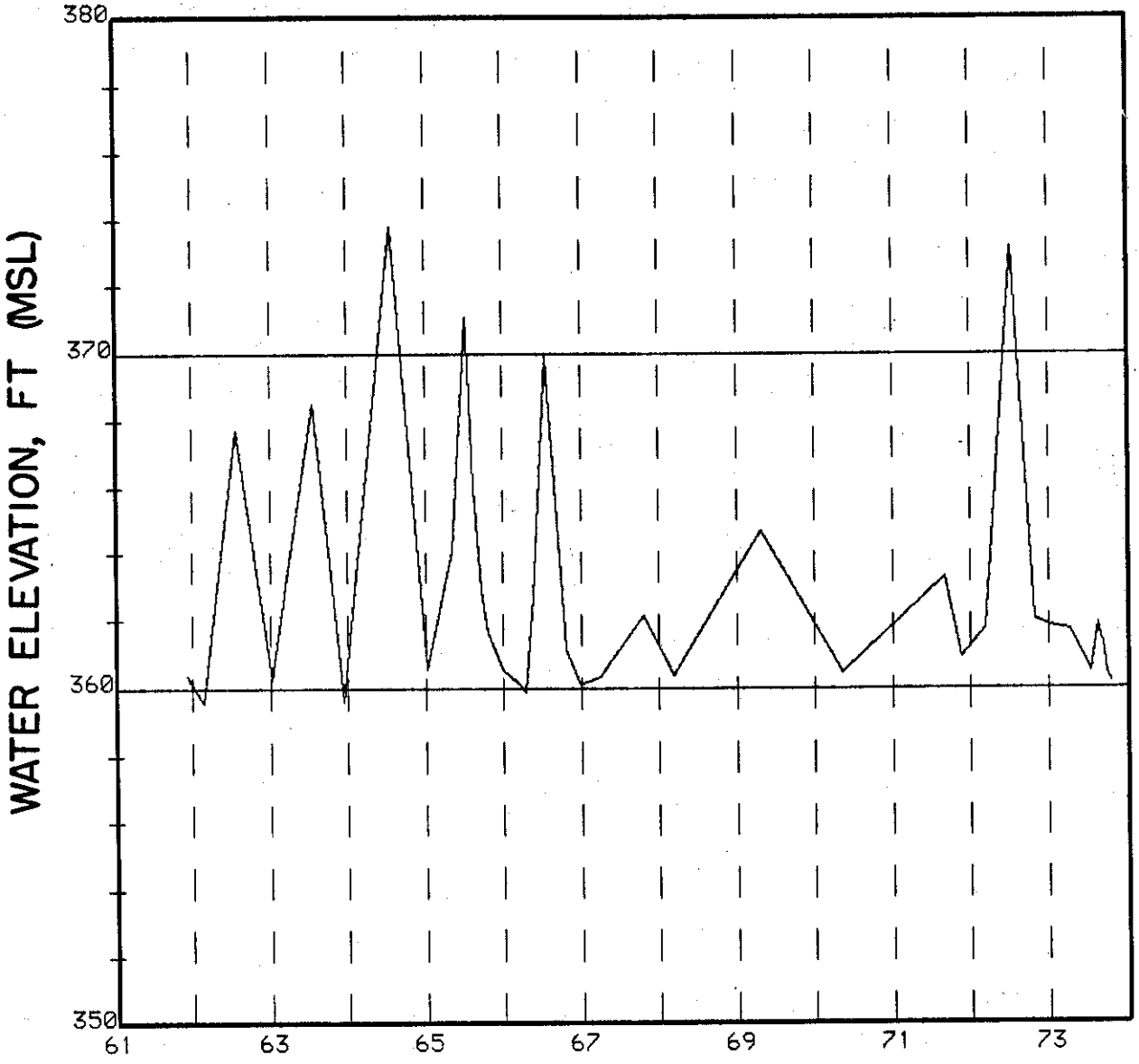

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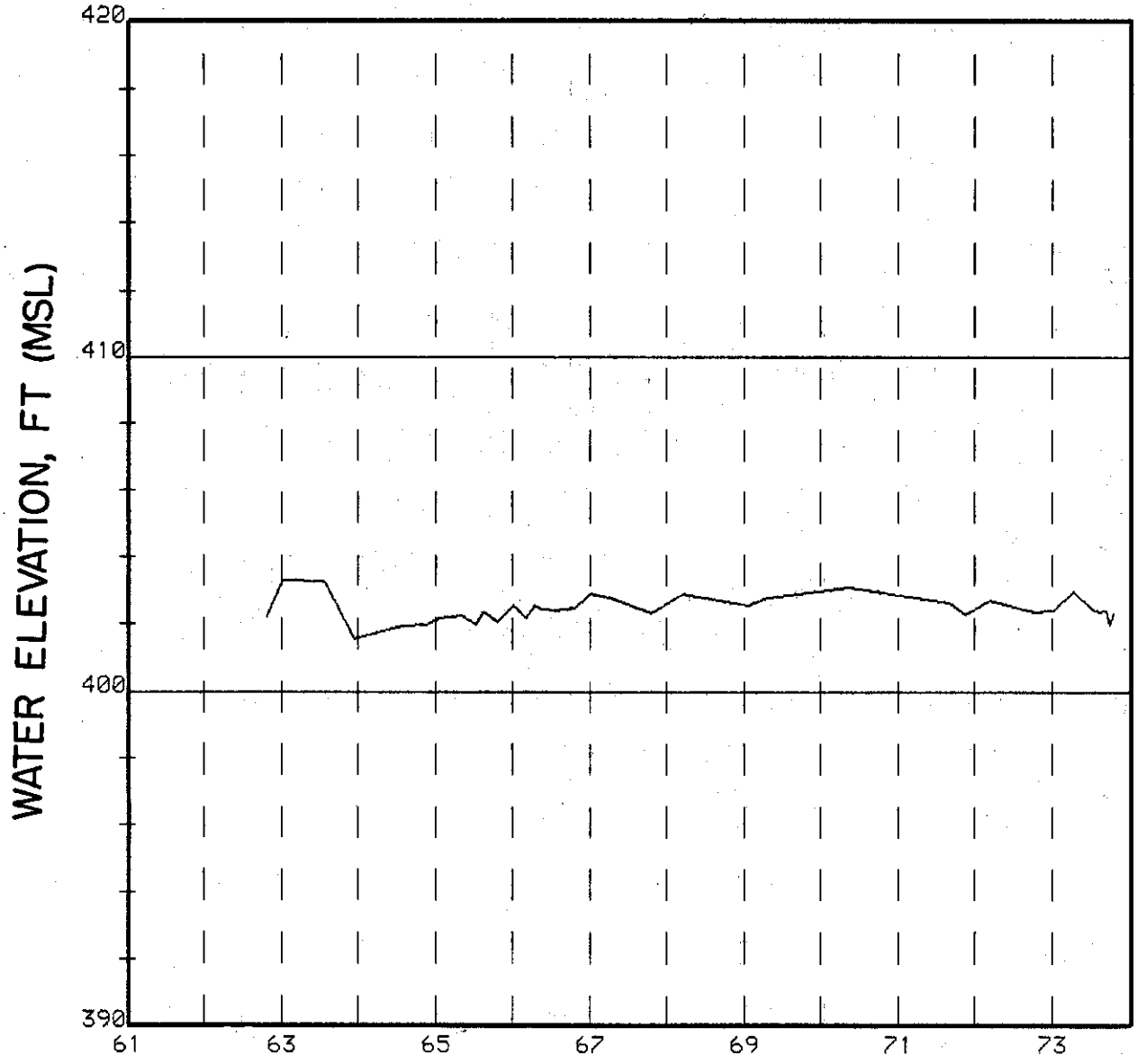
CASING ELEVATION = 389.01



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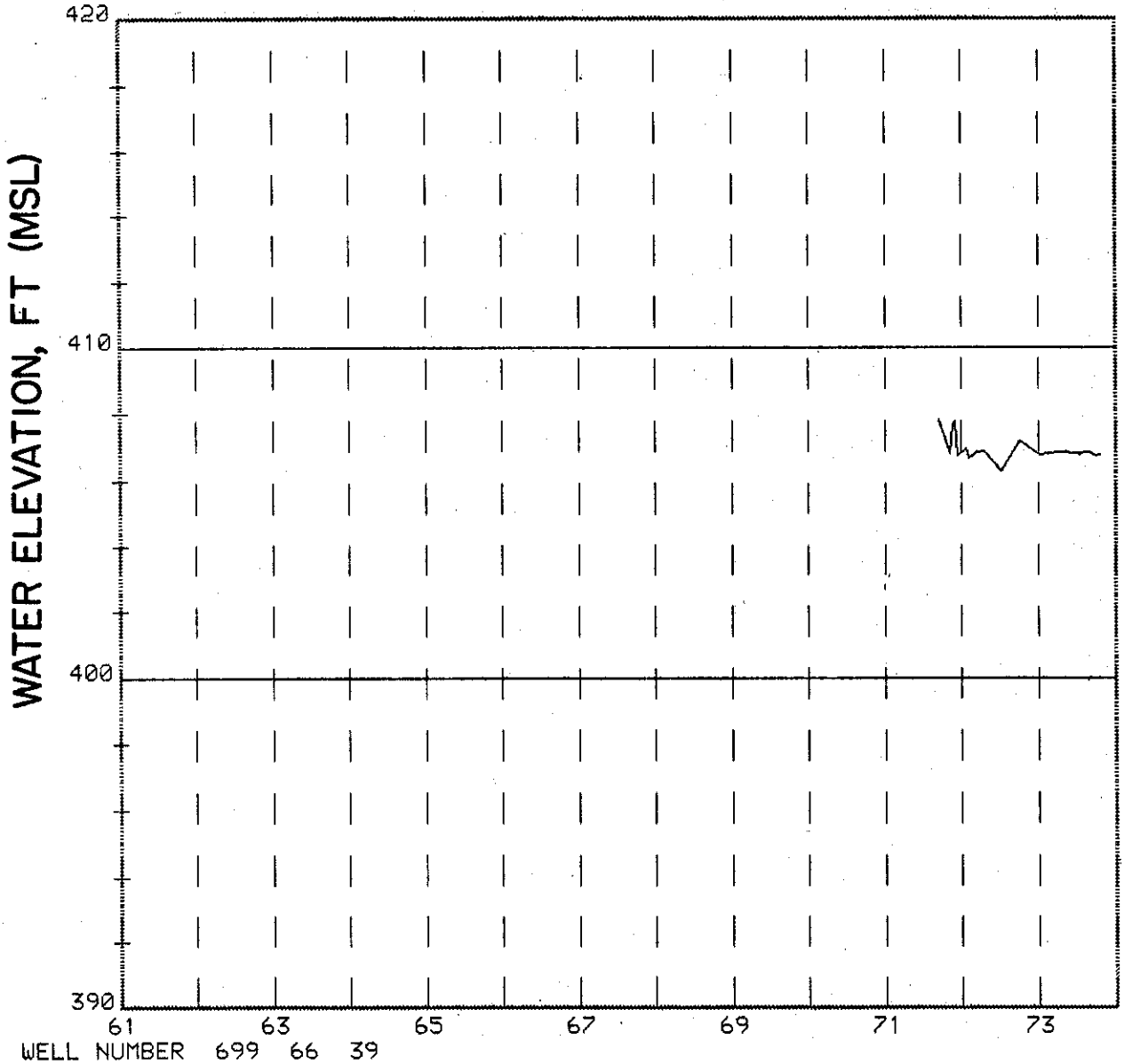

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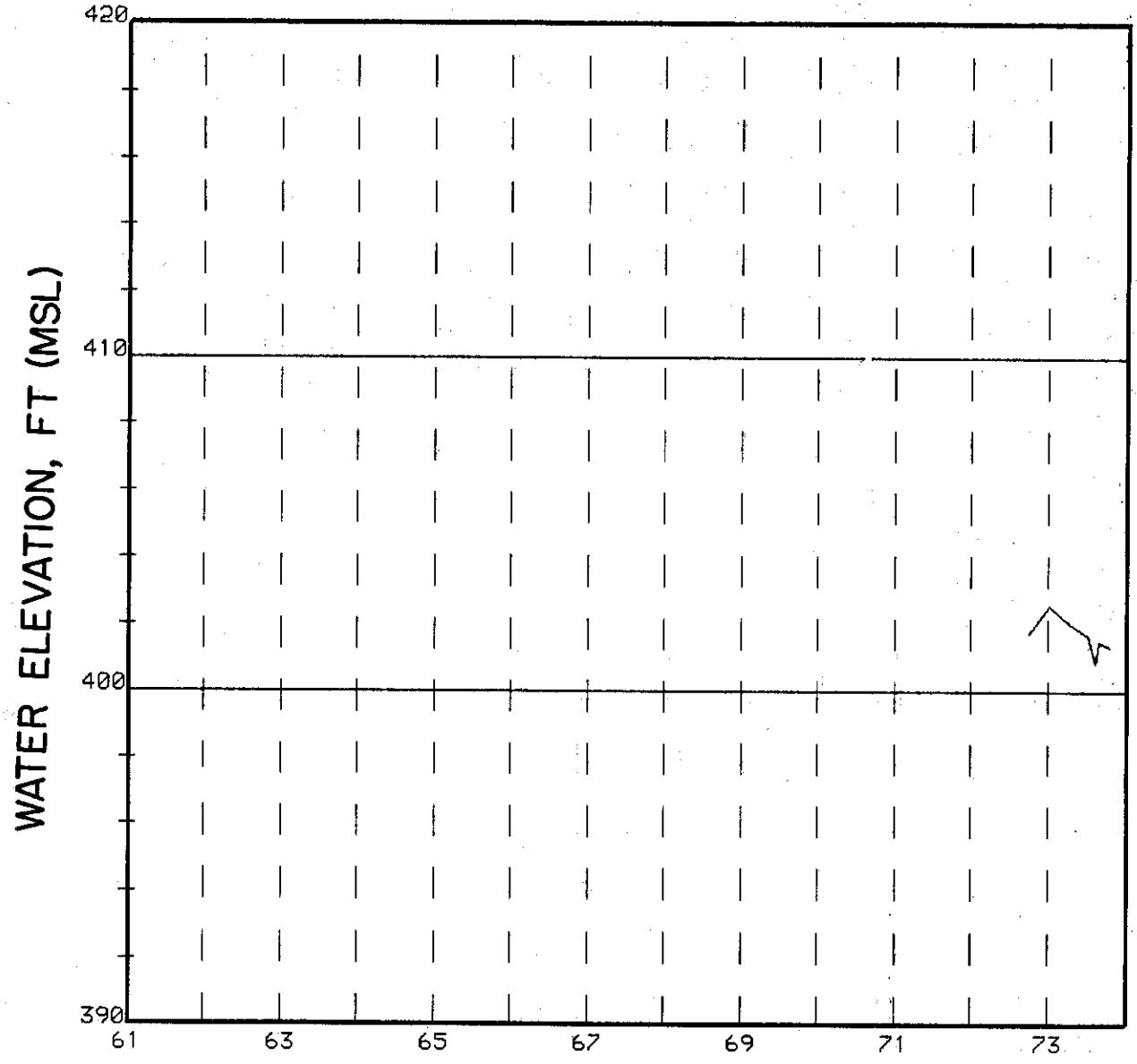

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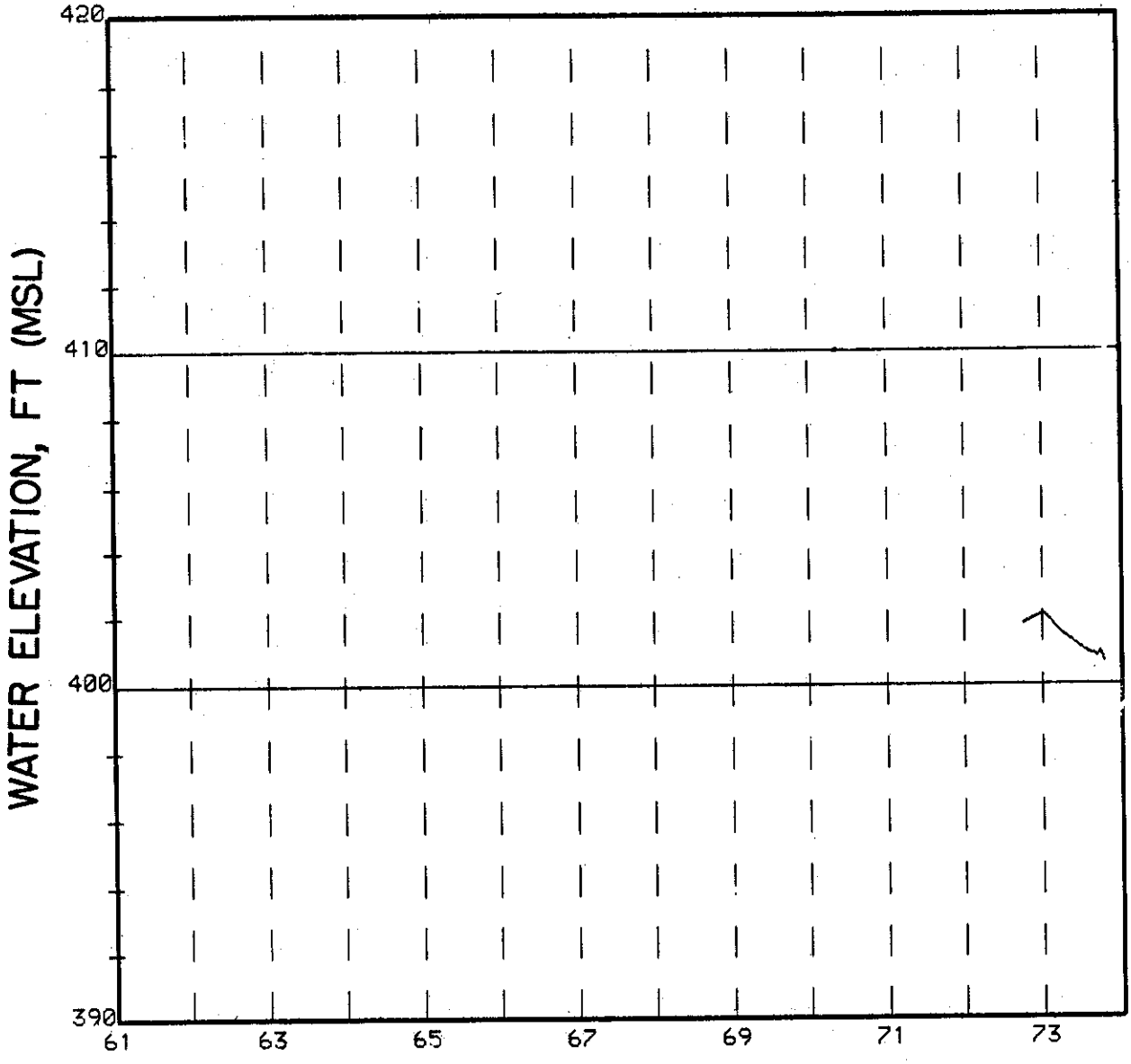

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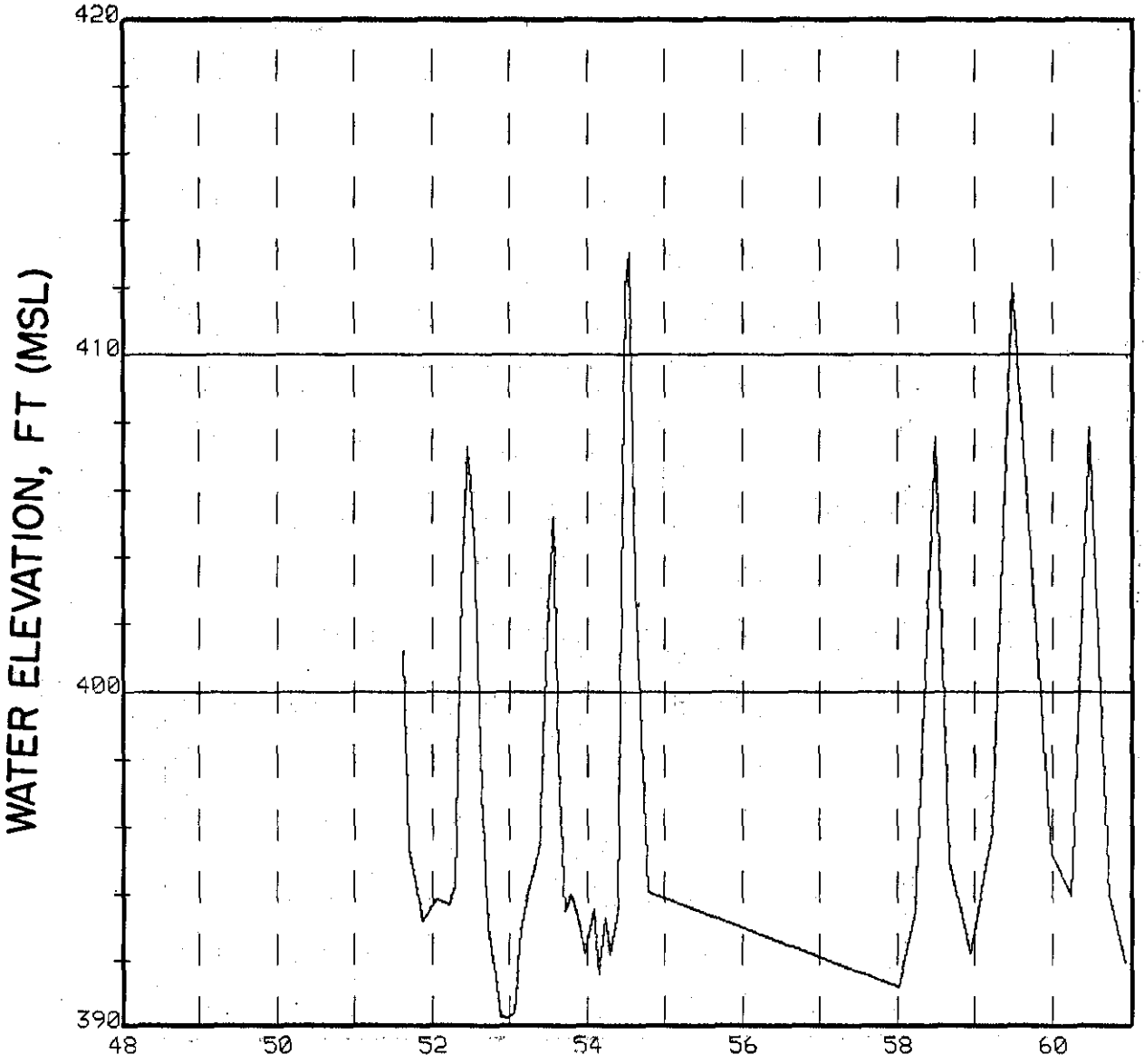

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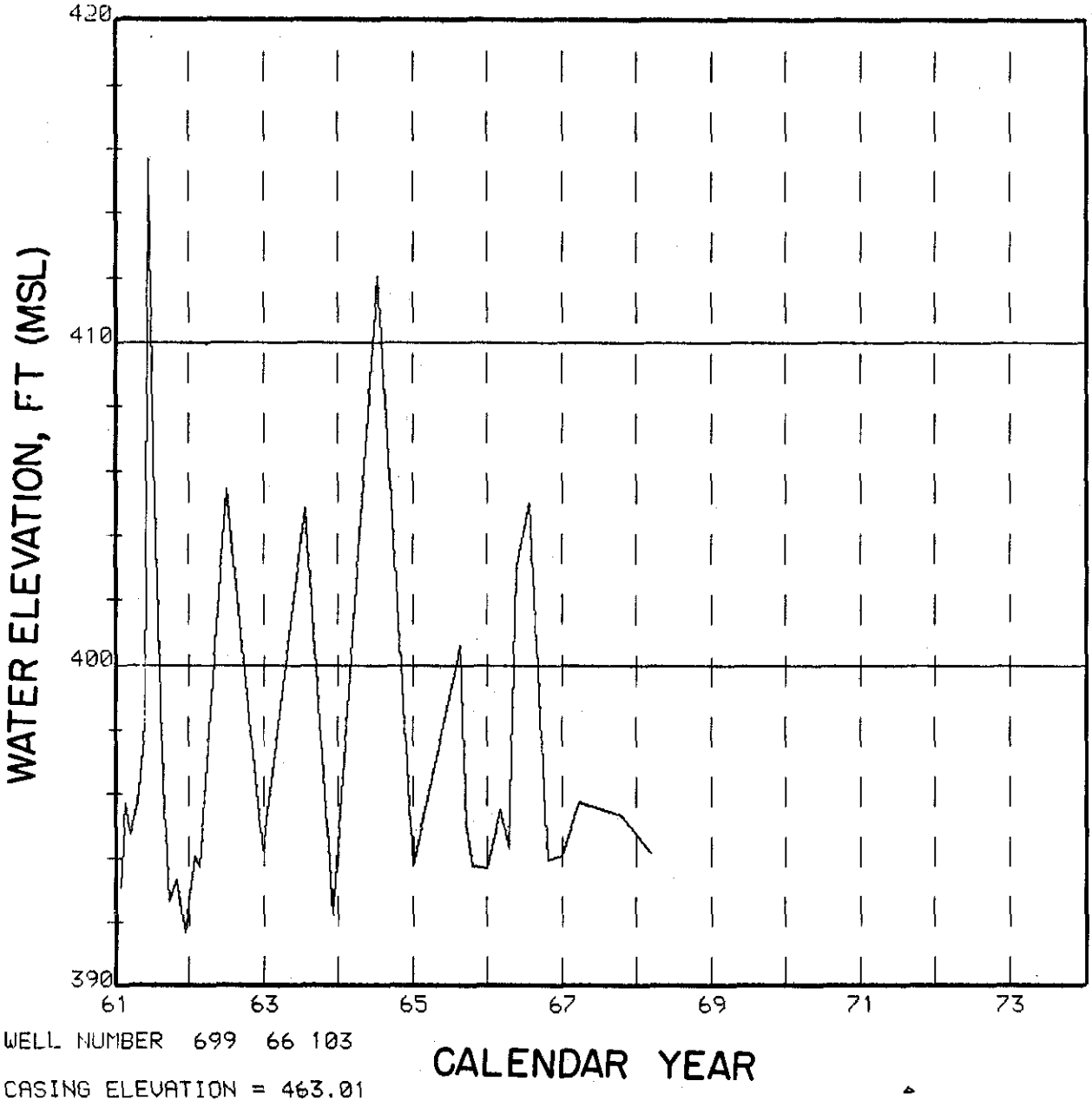

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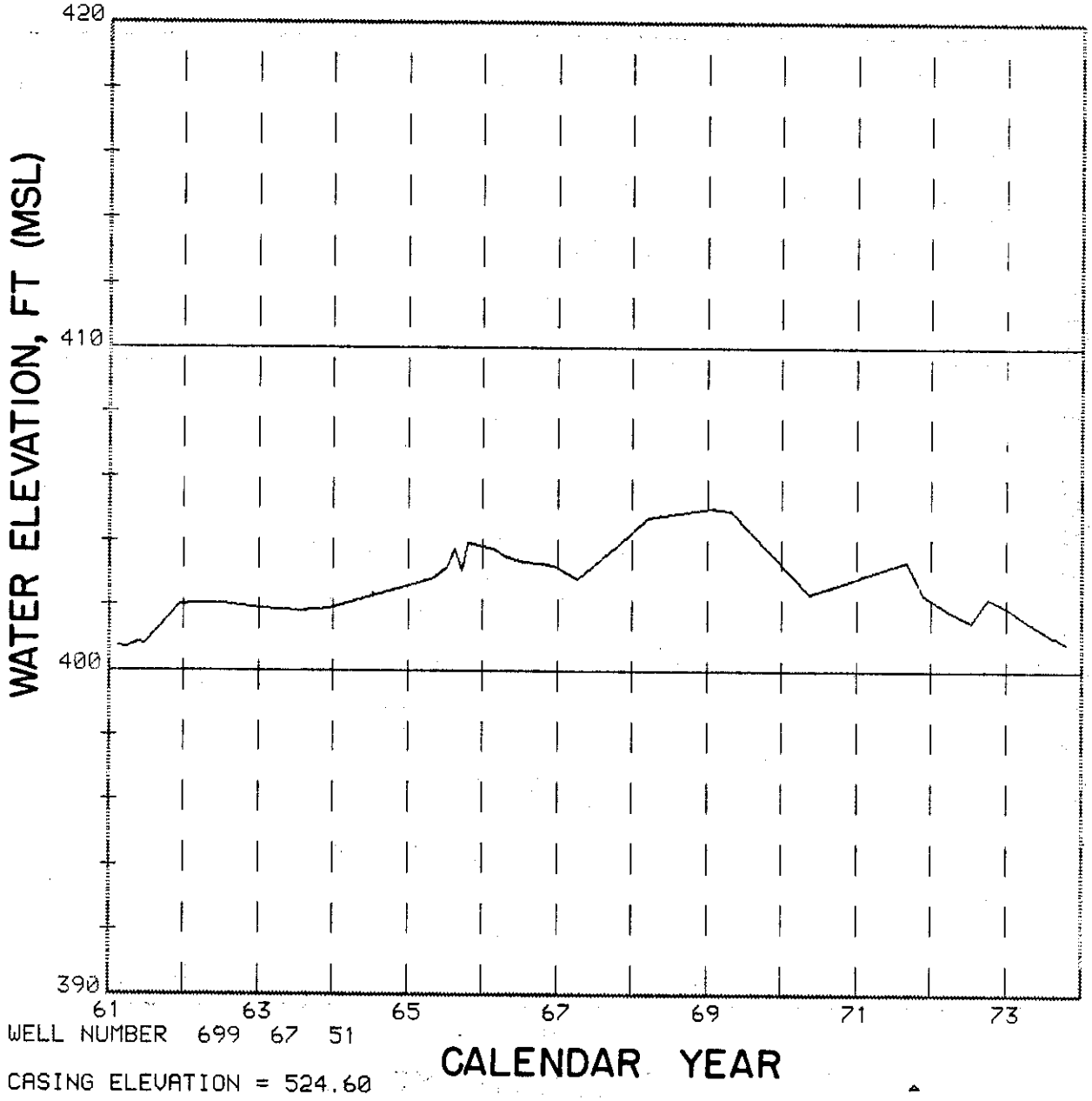

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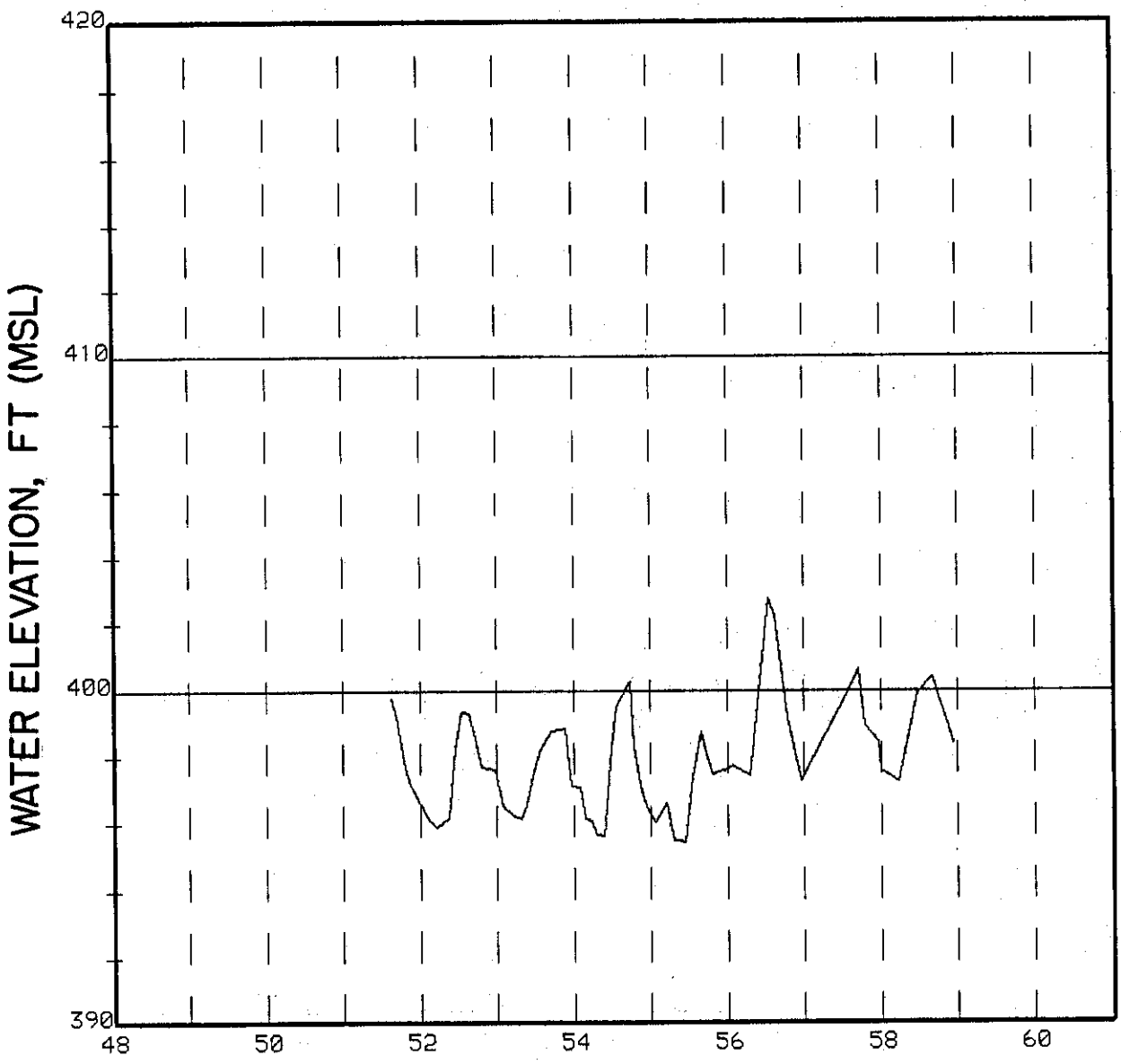

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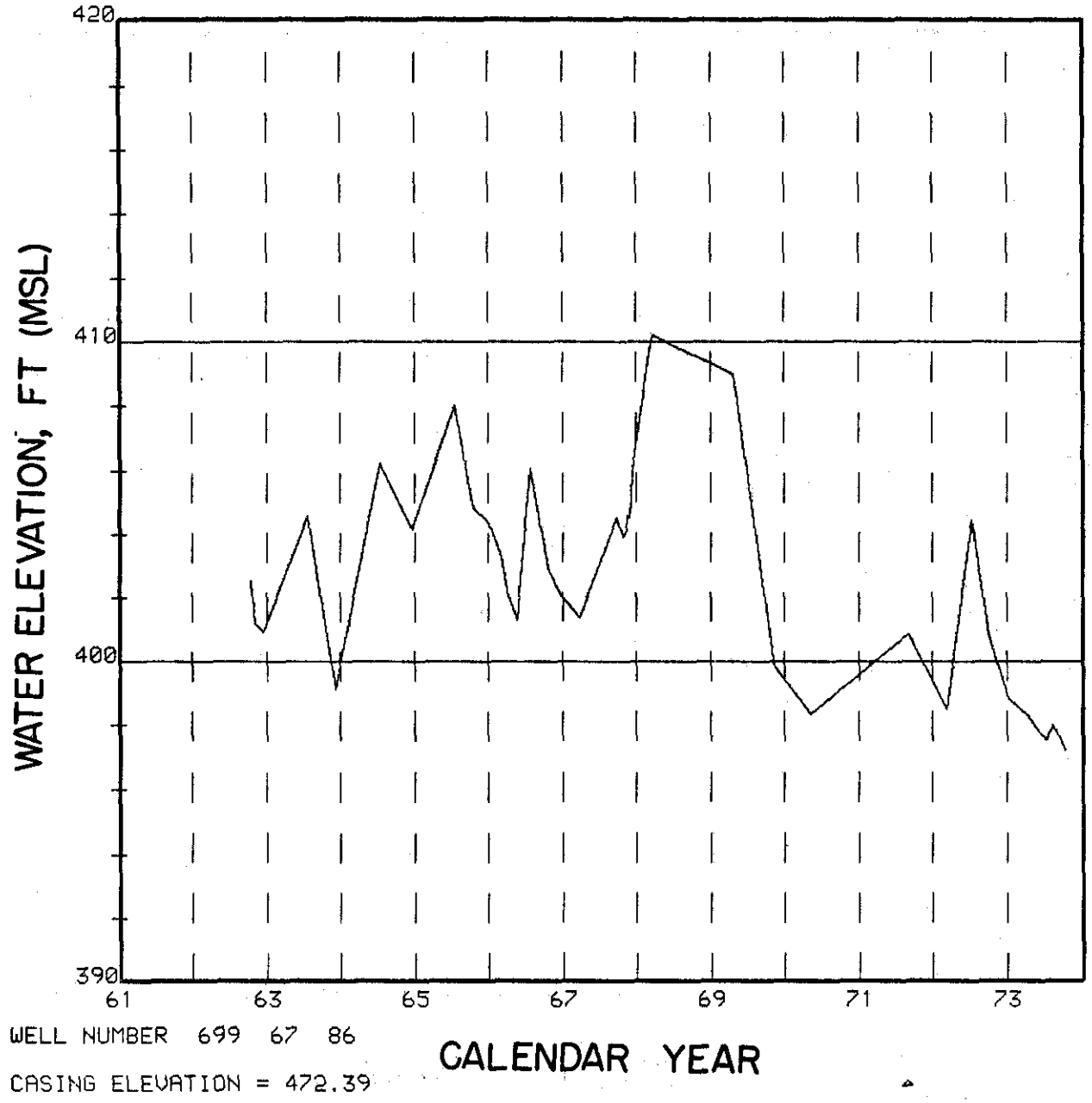
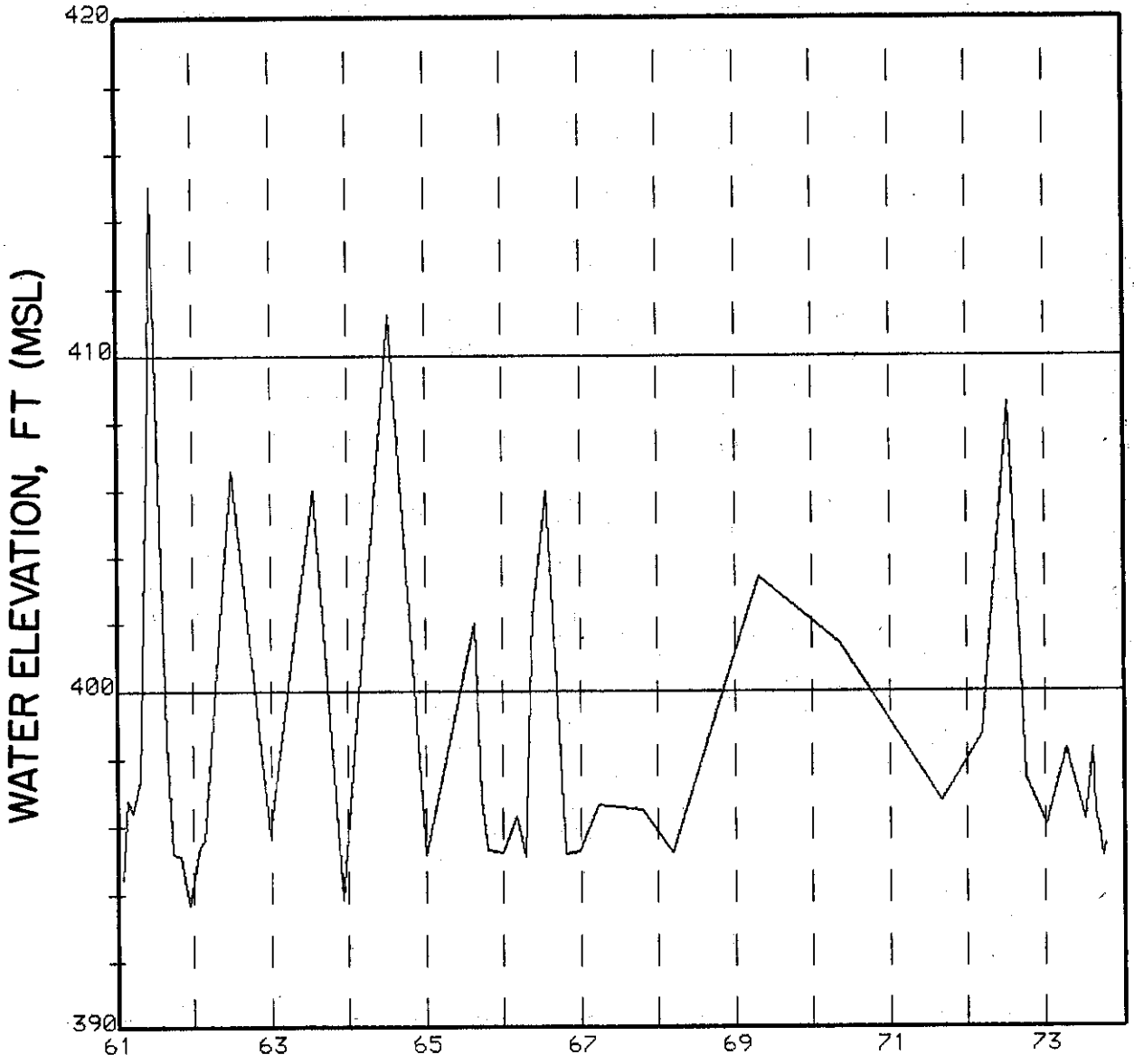


WELL NUMBER 699 67 86

CASING ELEVATION = 472.39



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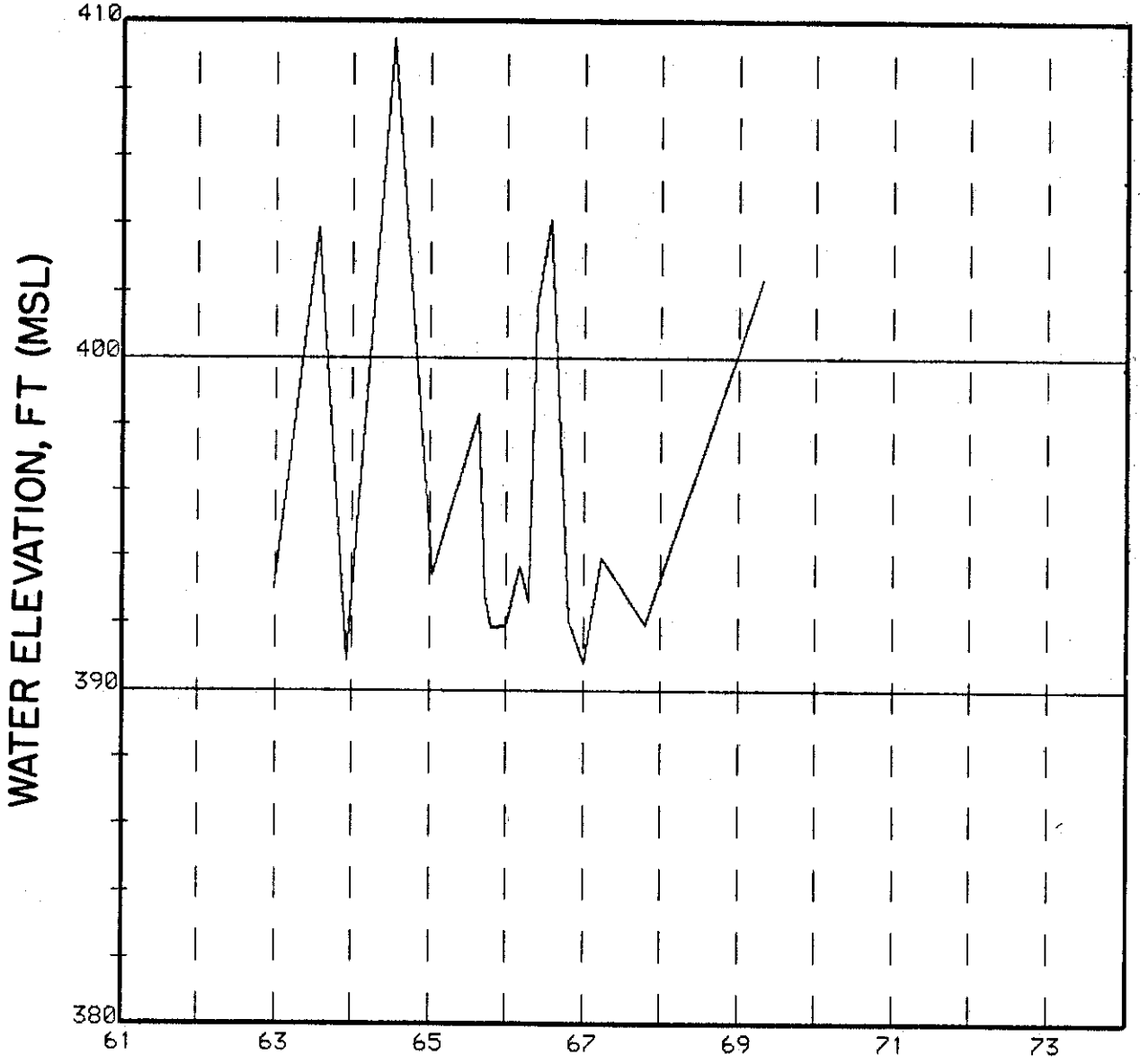

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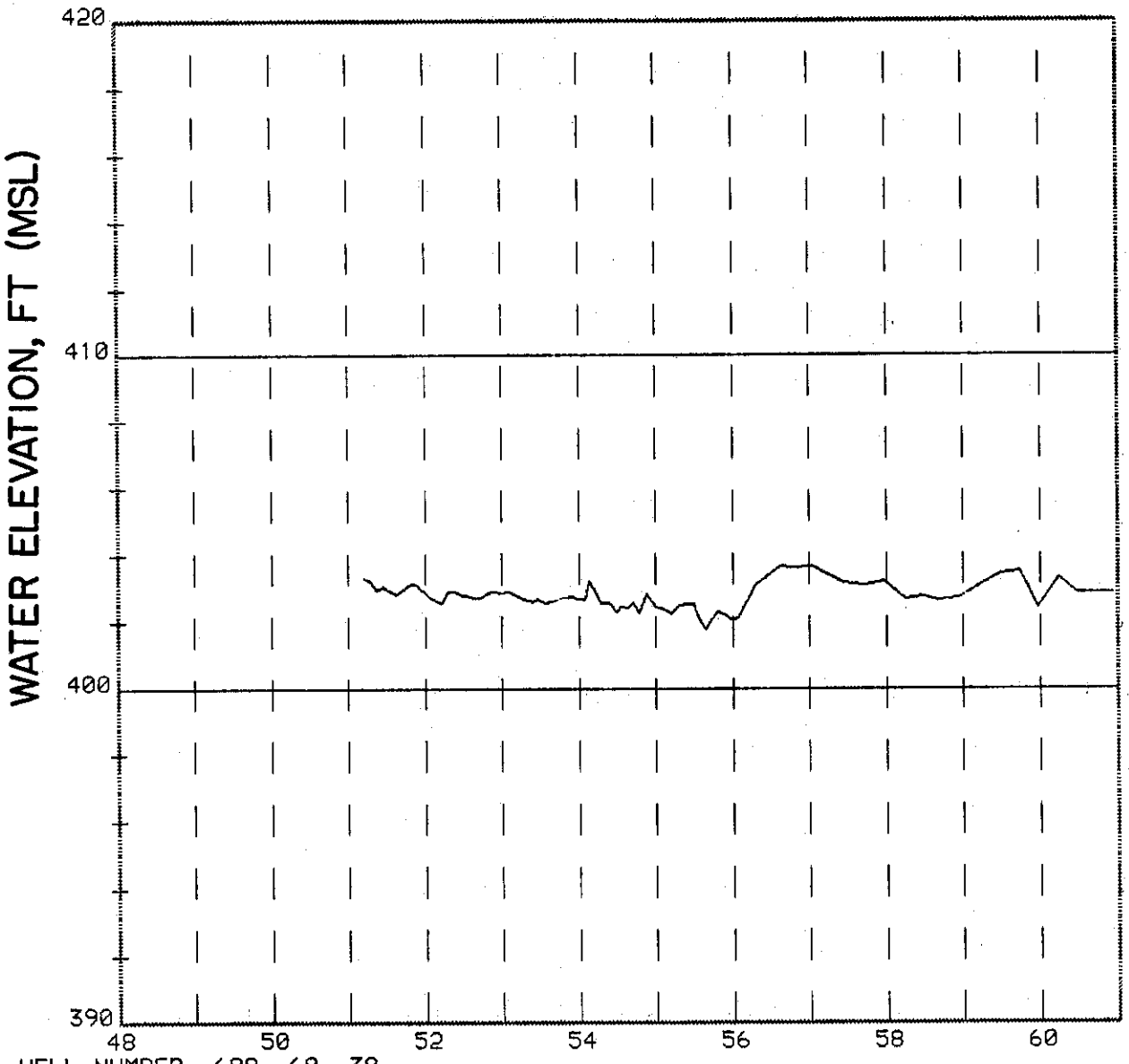

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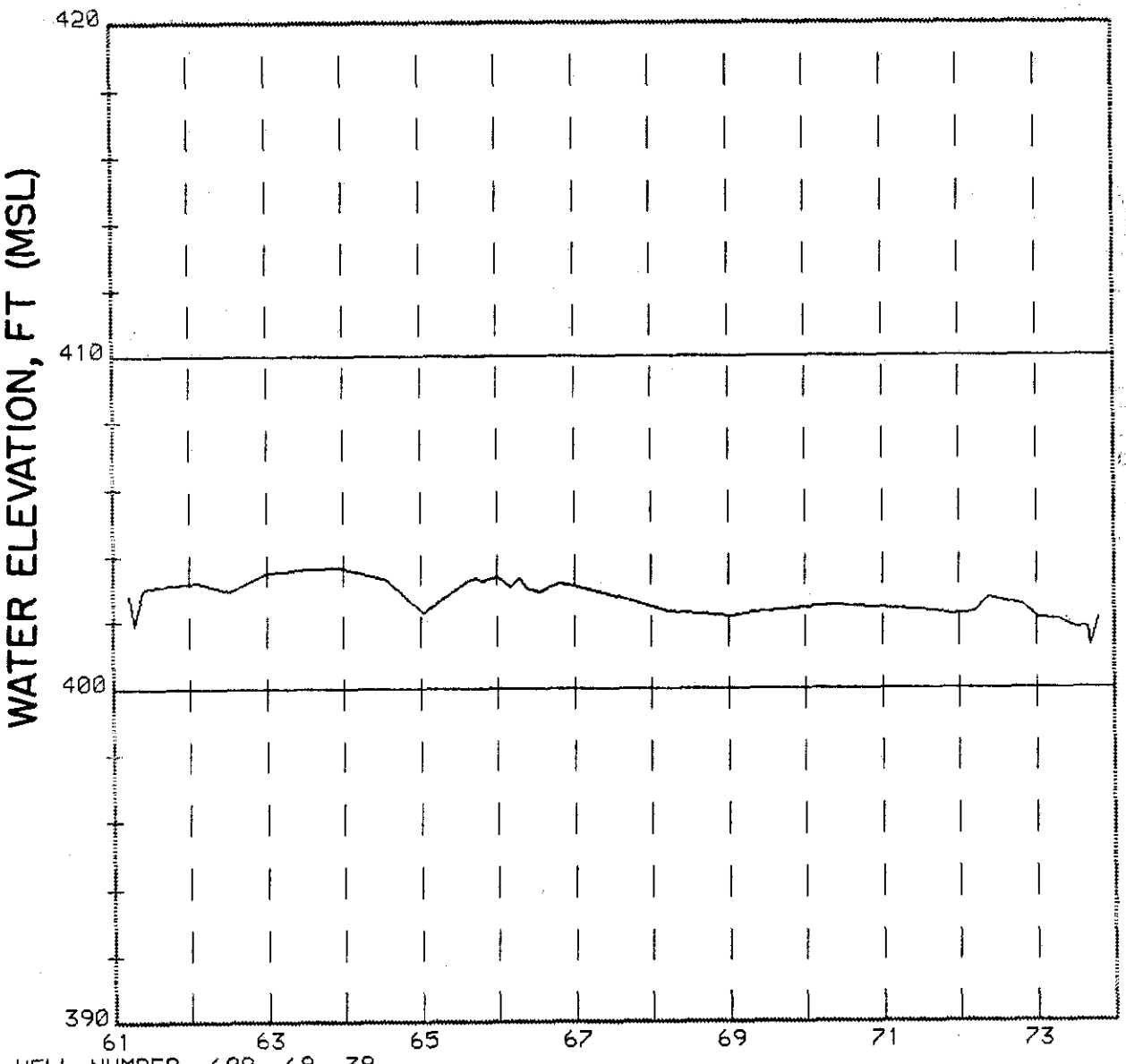

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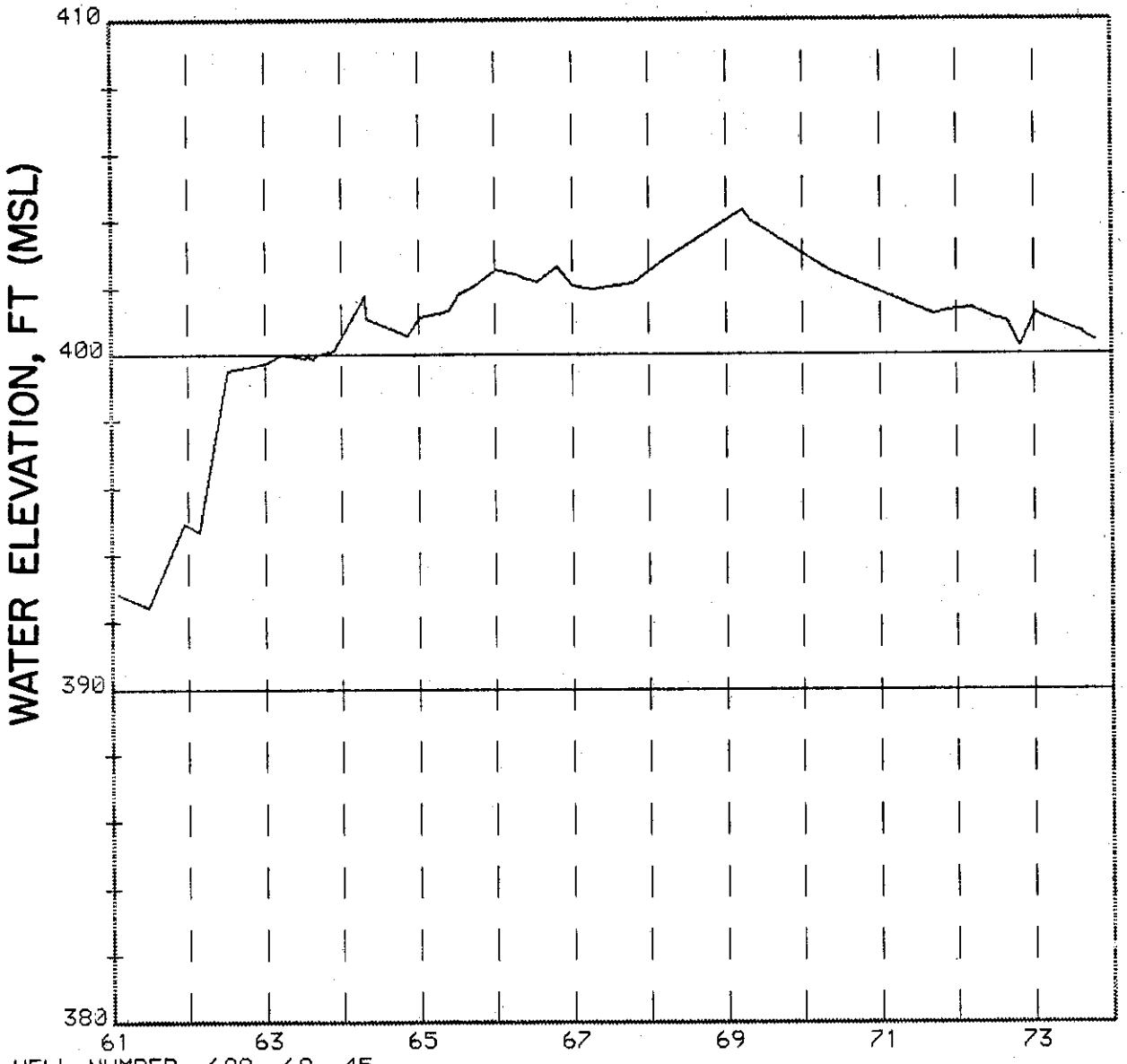

WELL NUMBER 699 69 45

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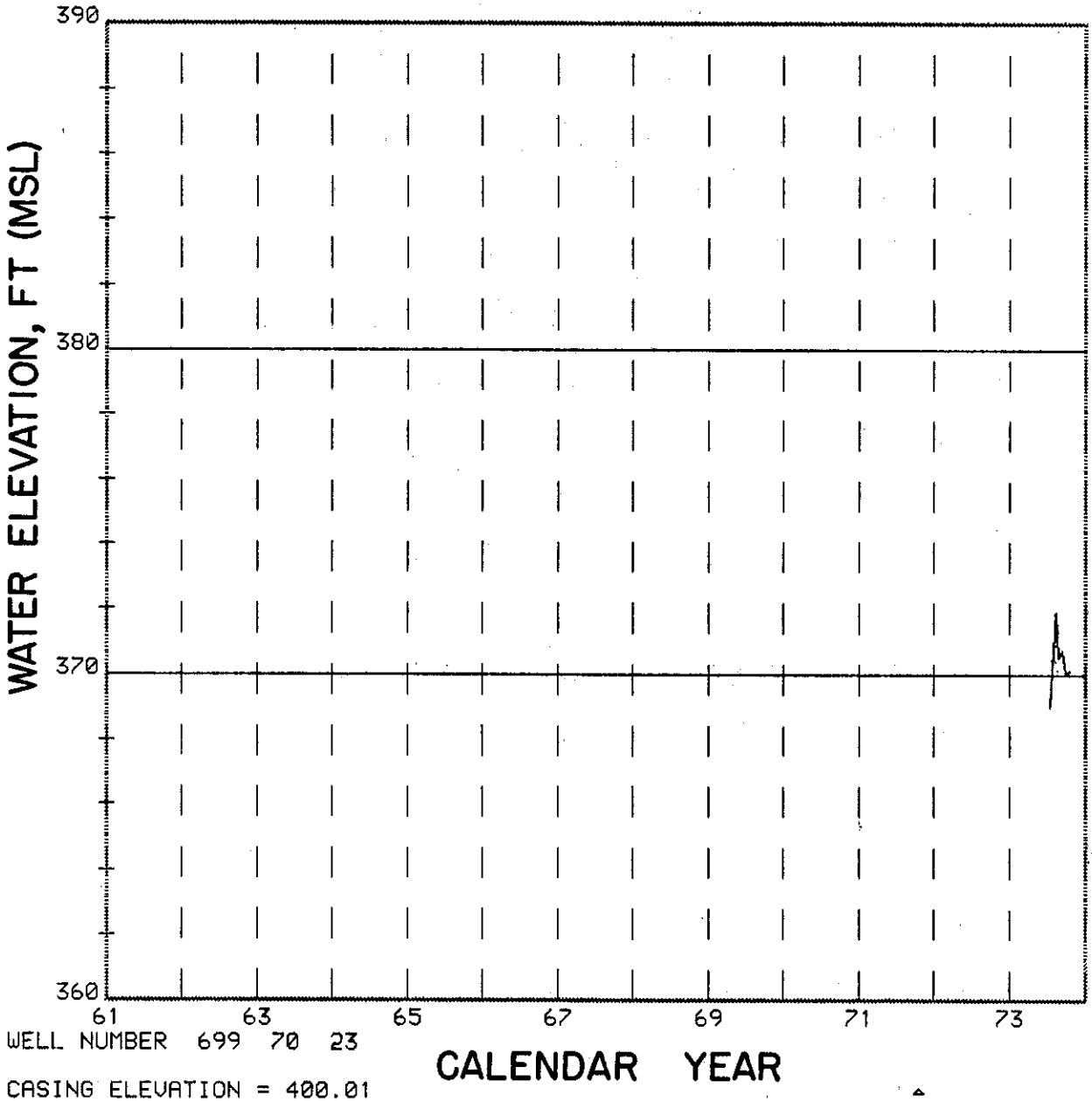
390
380
370
360
WATER ELEVATION, FT (MSL)
61
63
65
67
69
71
73
CALENDAR YEAR
WELL NUMBER 699 70 23
CASING ELEVATION = 400.01

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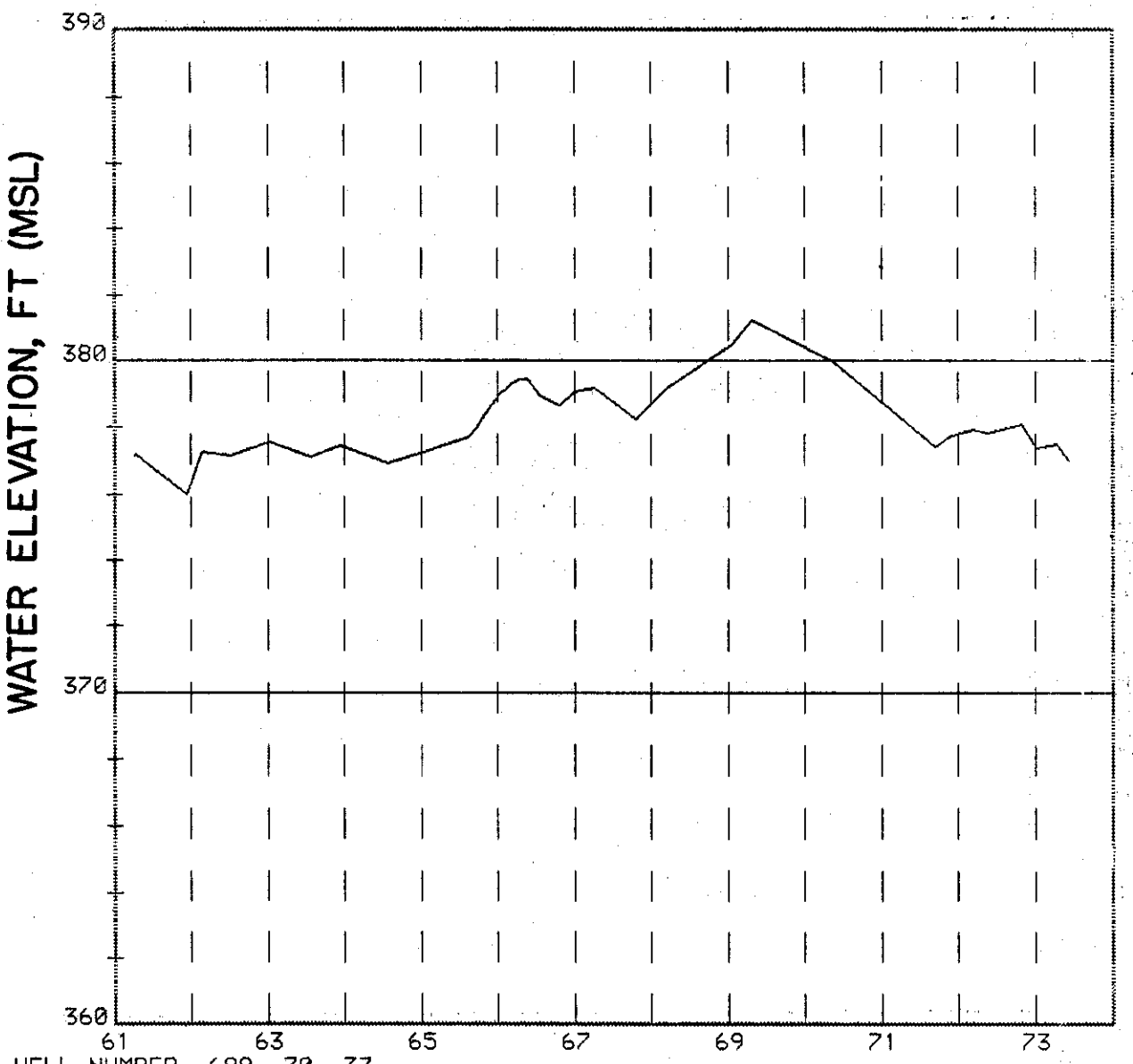
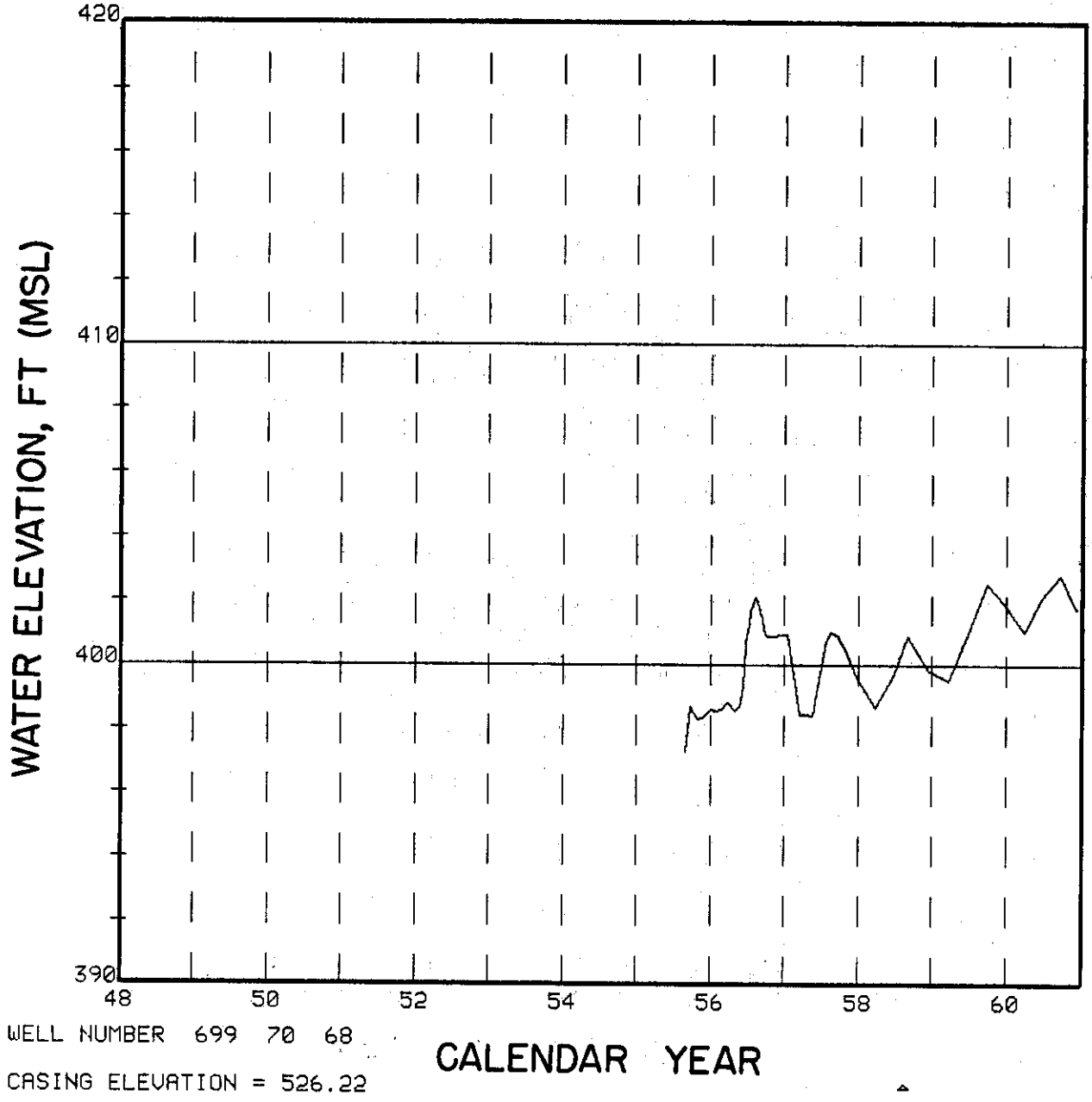


WELL NUMBER 699 70 37

CASING ELEVATION = 386.68



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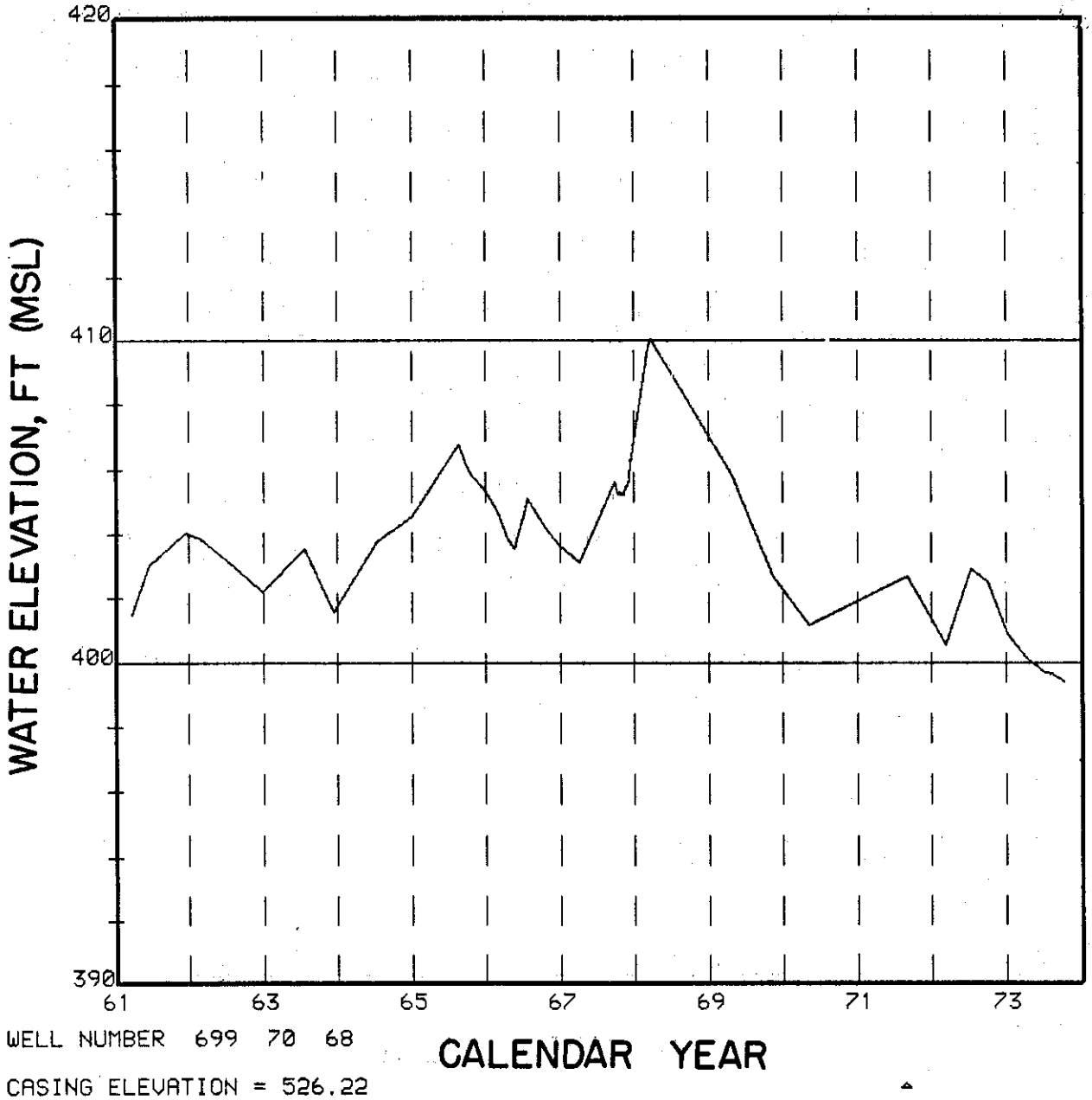
CASING ELEVATION = 526.22



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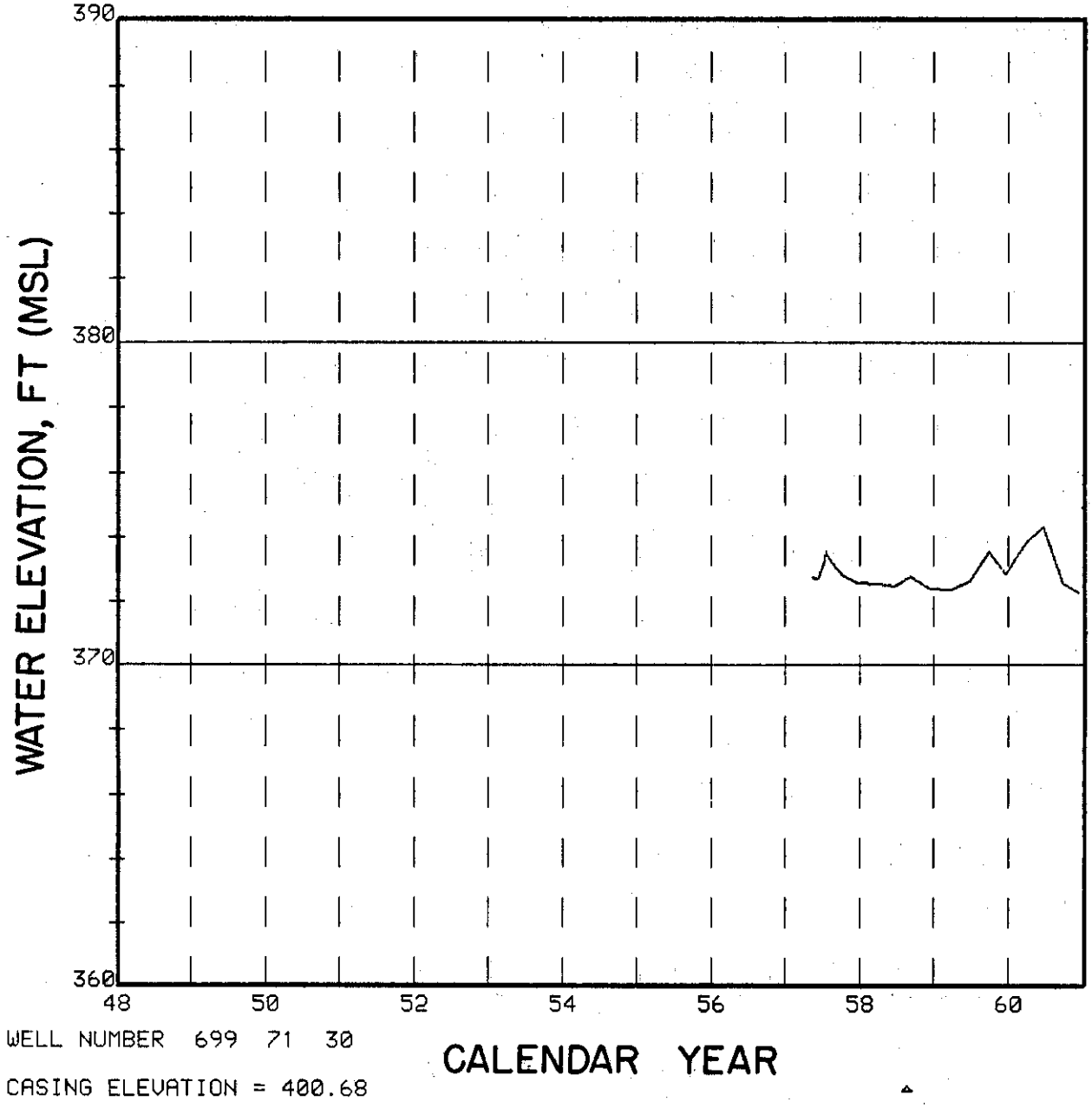

WELL NUMBER 699 71 30

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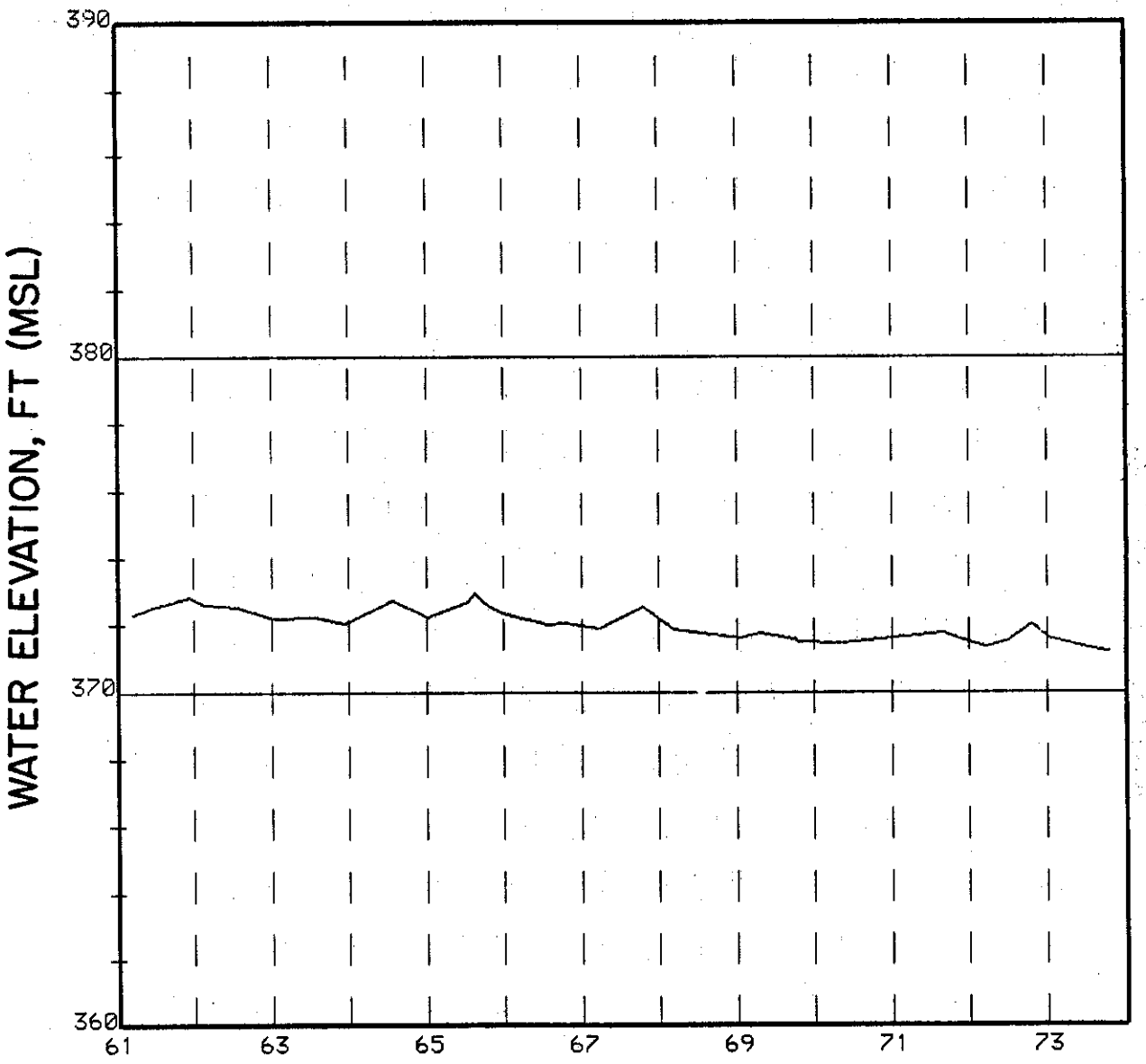

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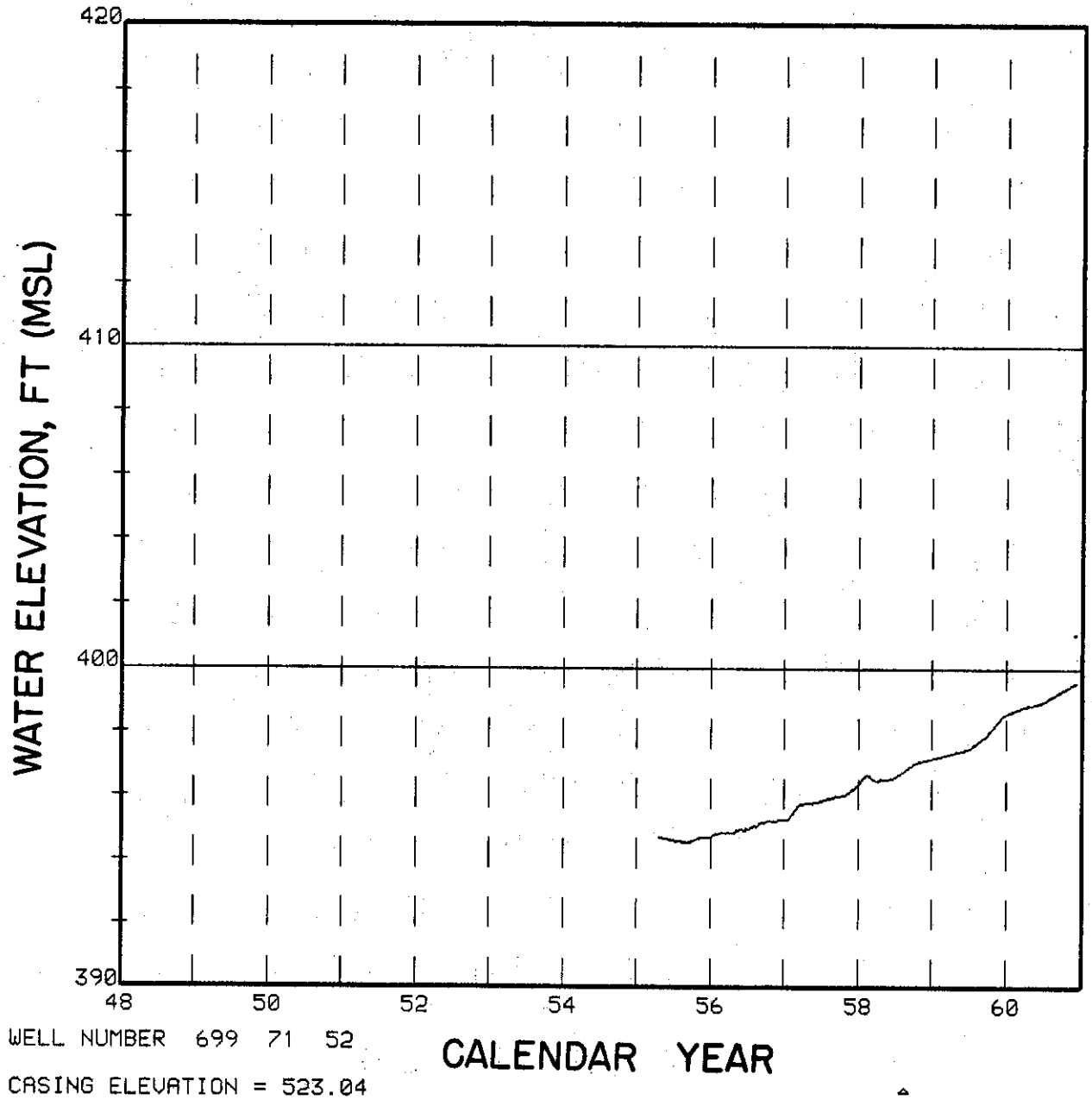
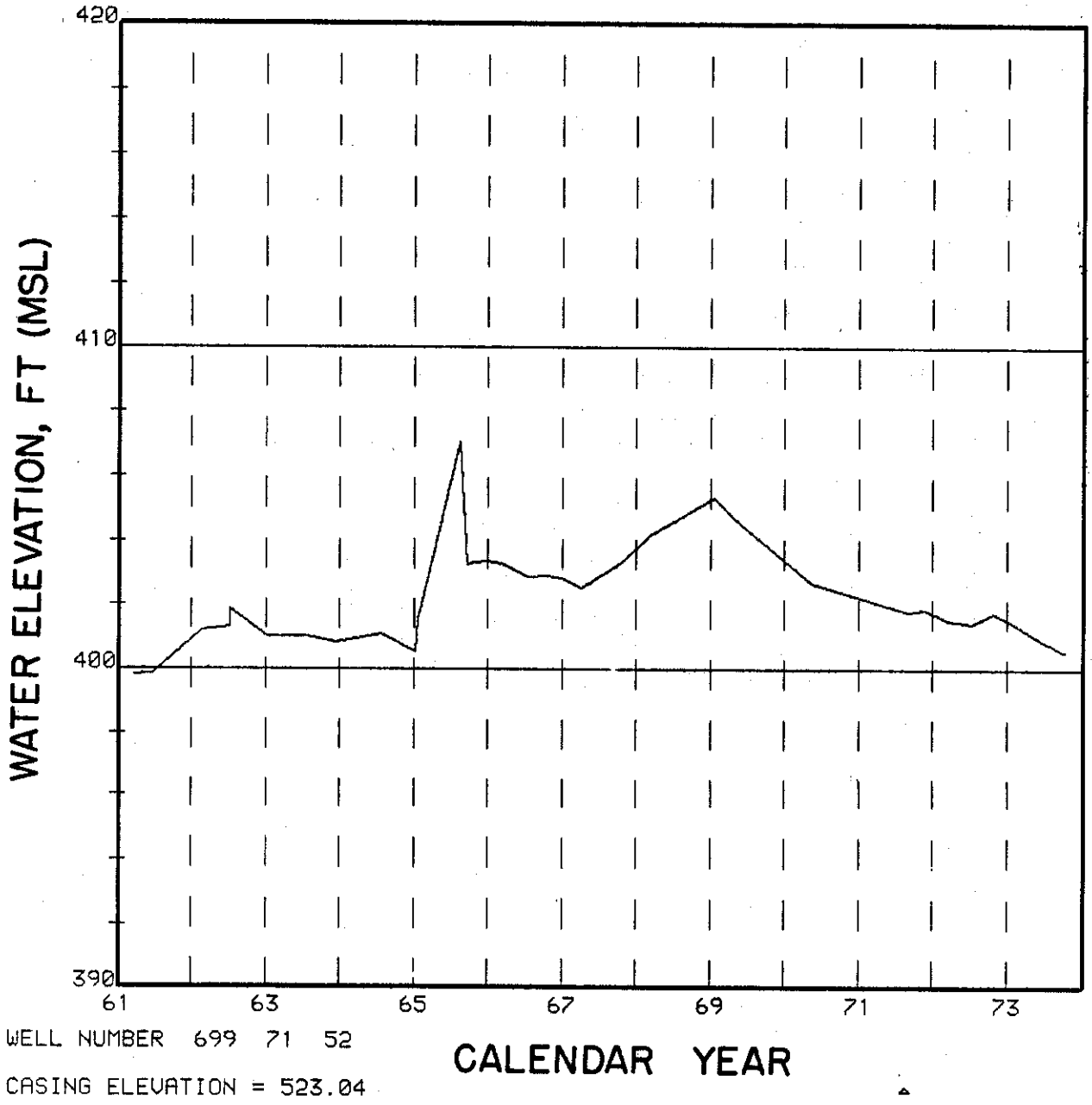


WELL NUMBER 699 71 52

CASING ELEVATION = 523.04



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CASING ELEVATION = 523.04

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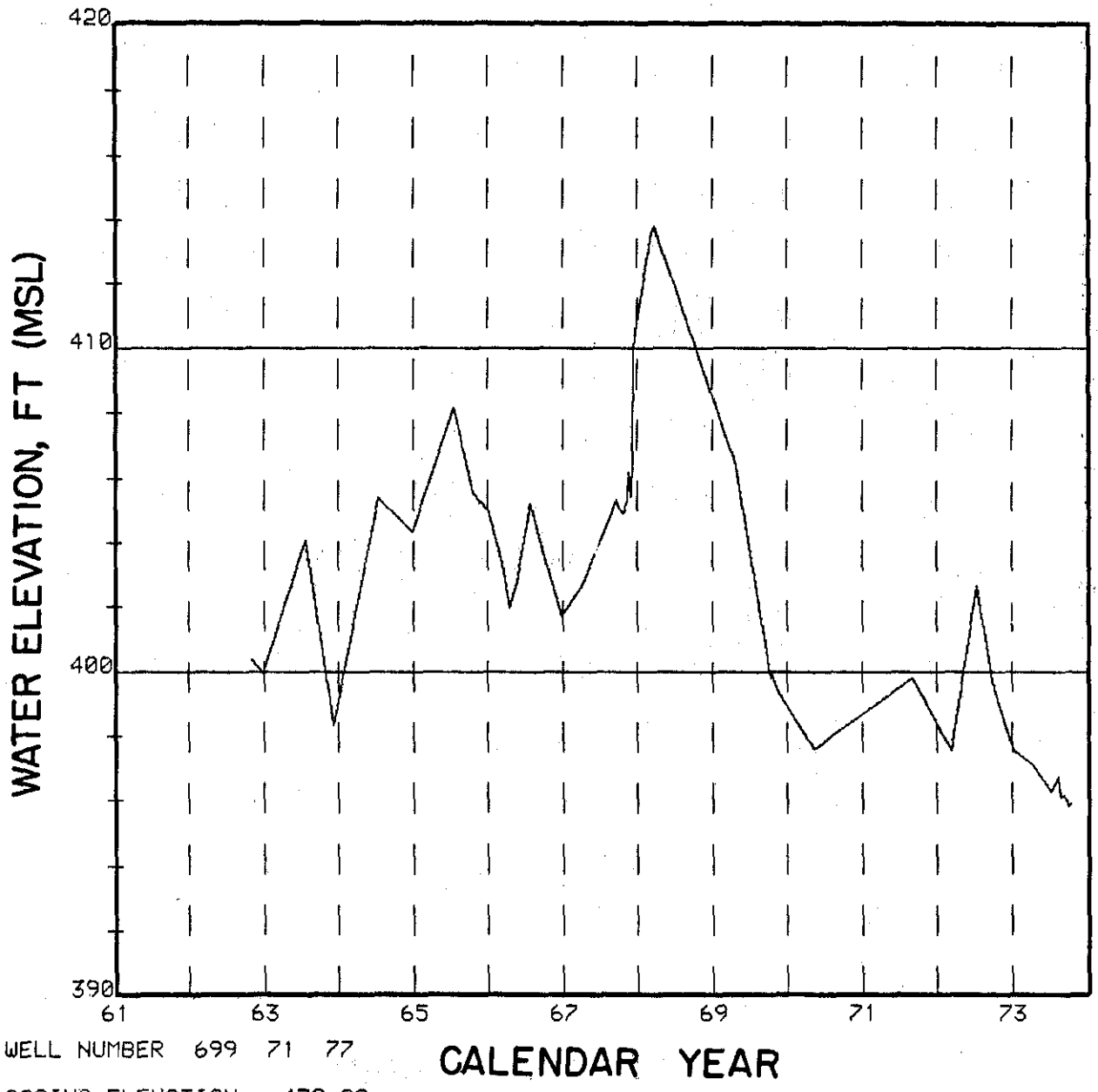
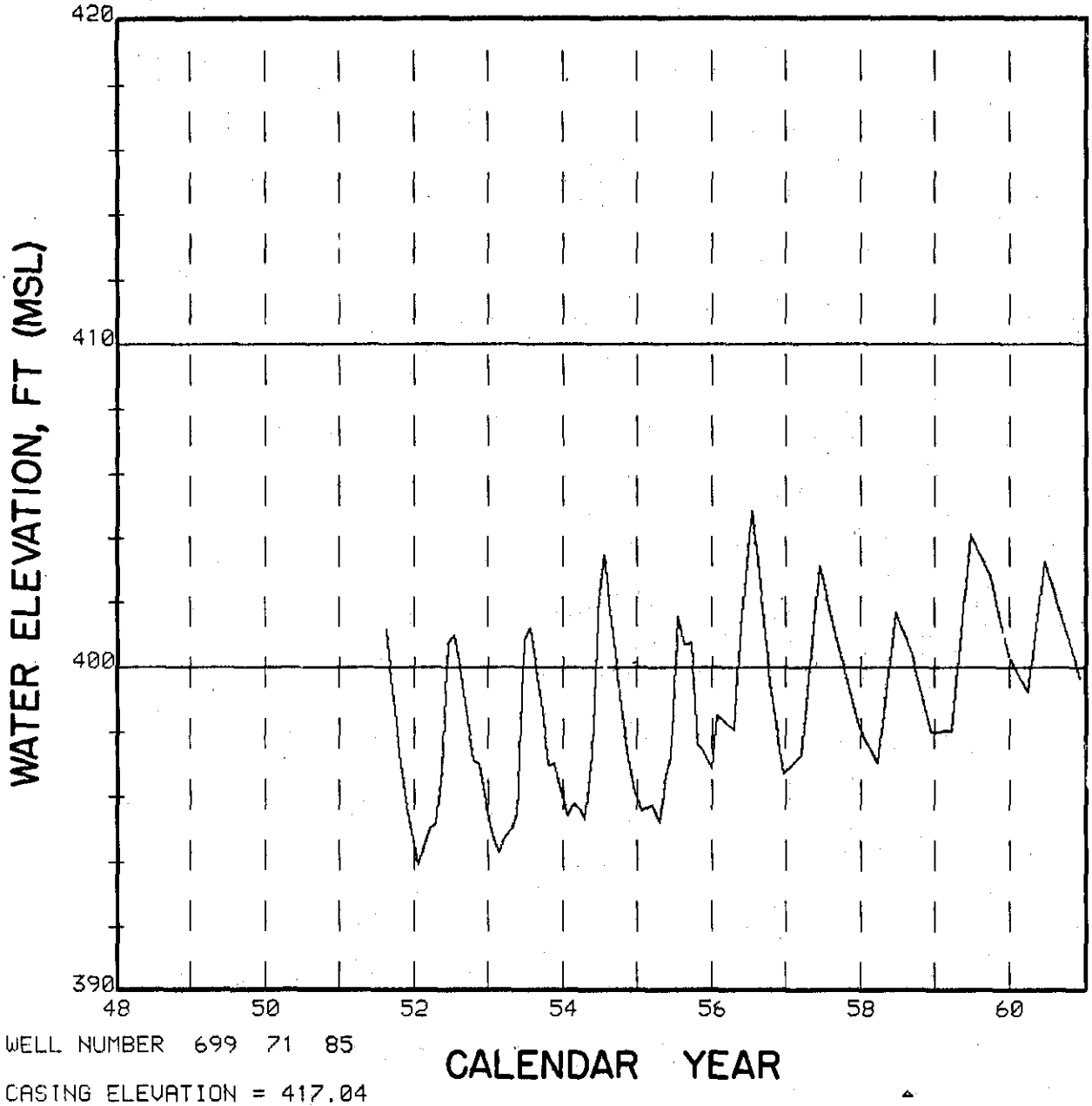


WELL NUMBER 699 71 77

CASING ELEVATION = 472.28



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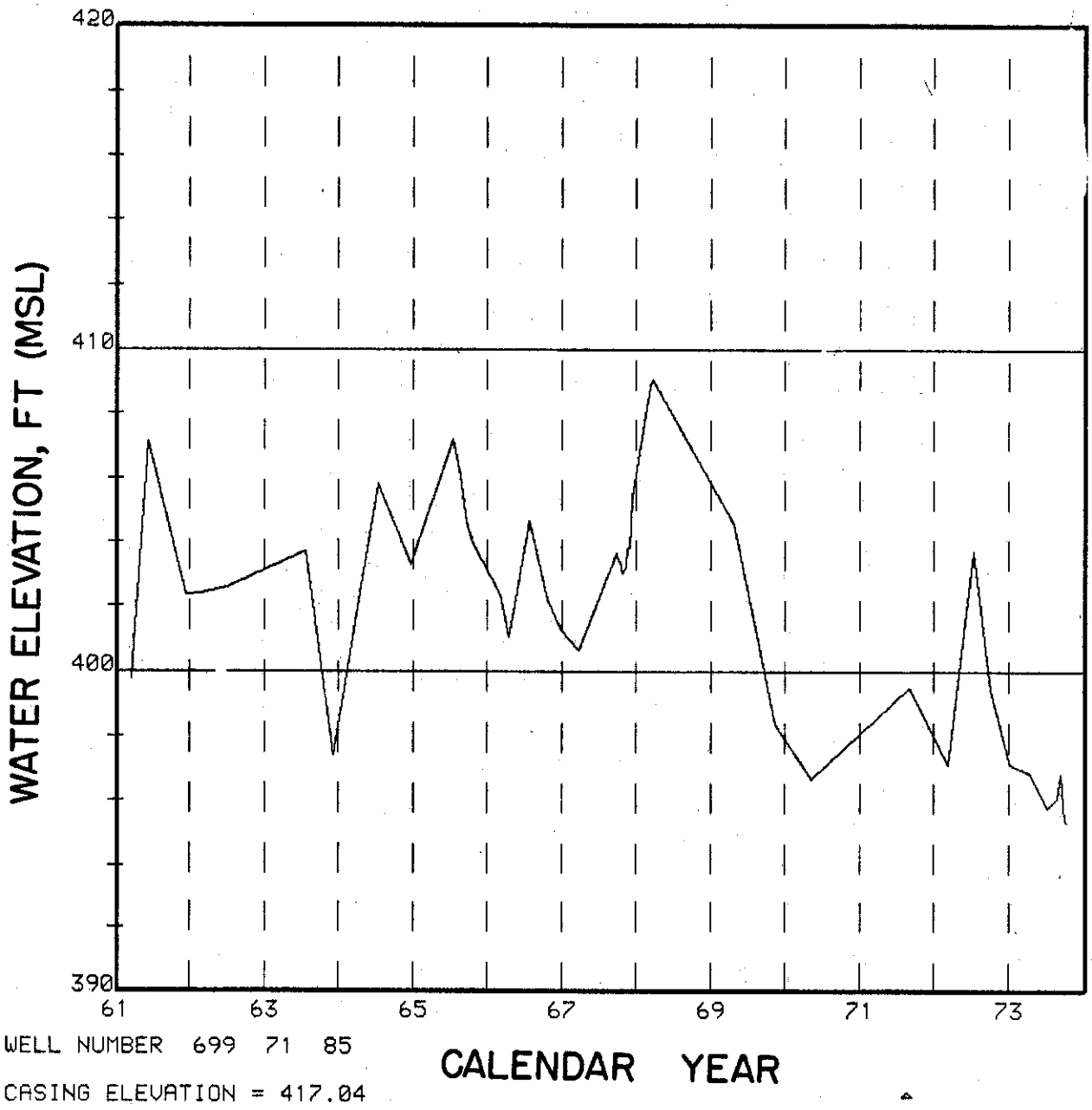
CASING ELEVATION = 417.04



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CASING ELEVATION = 417.04

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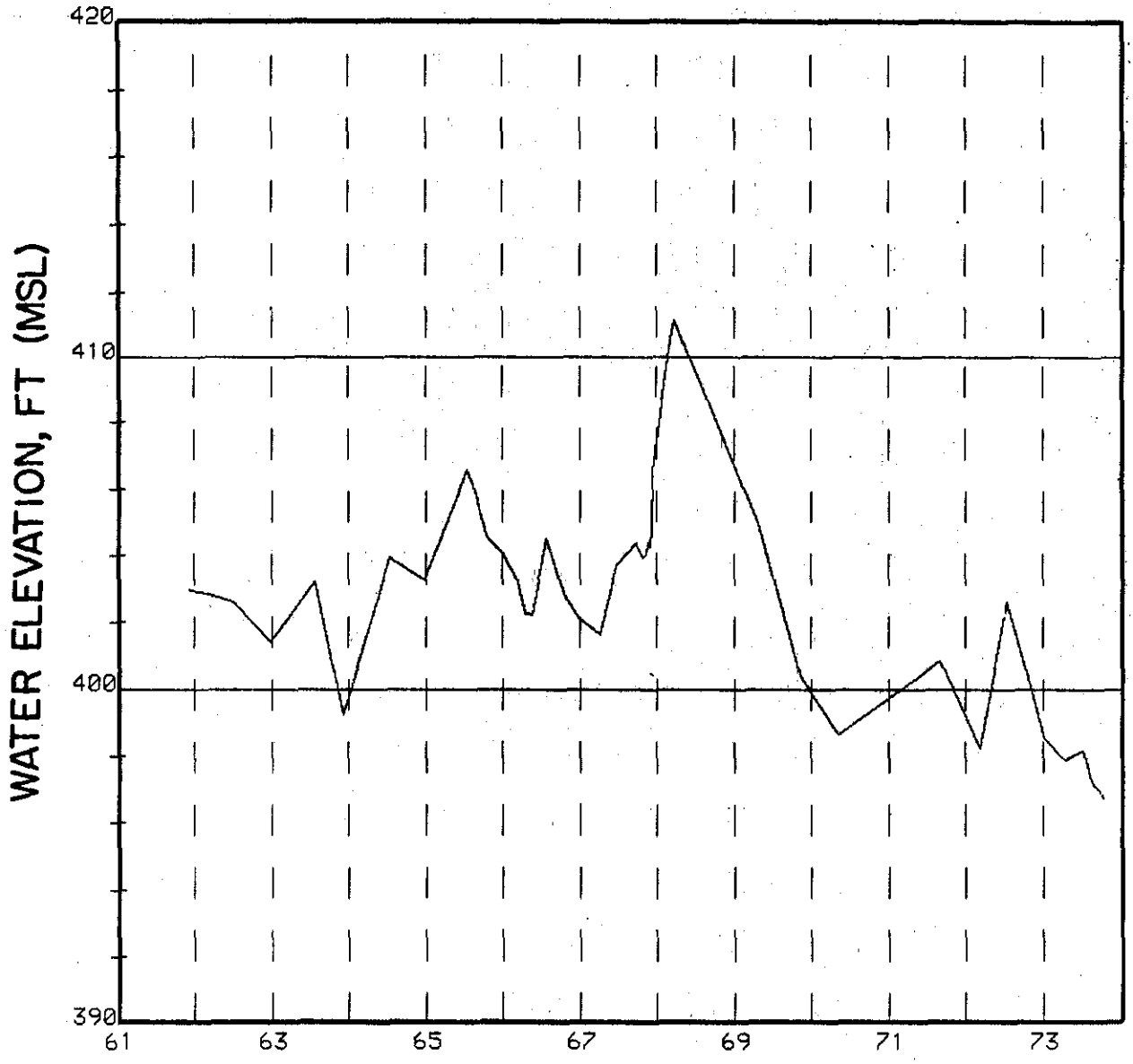
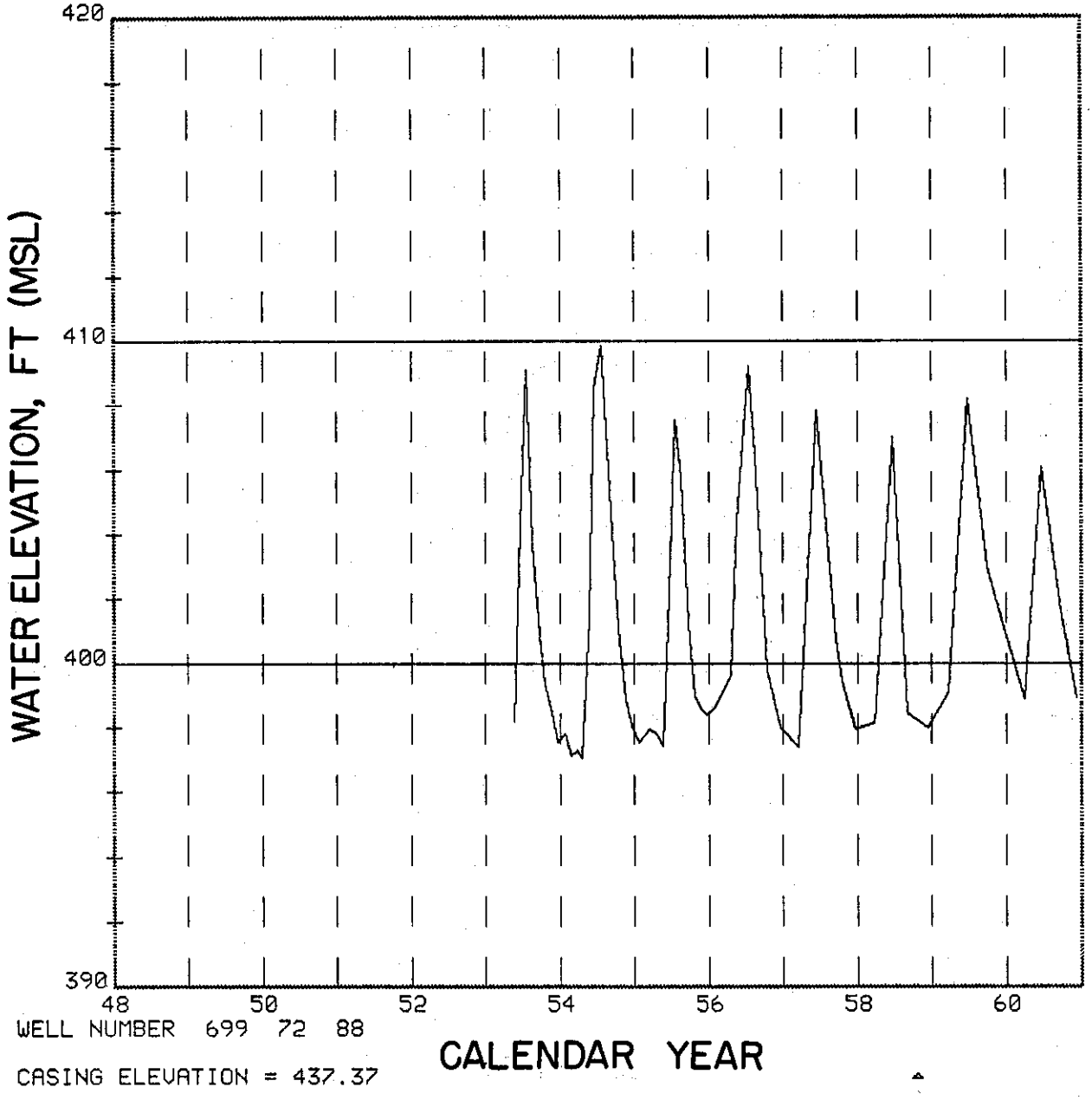
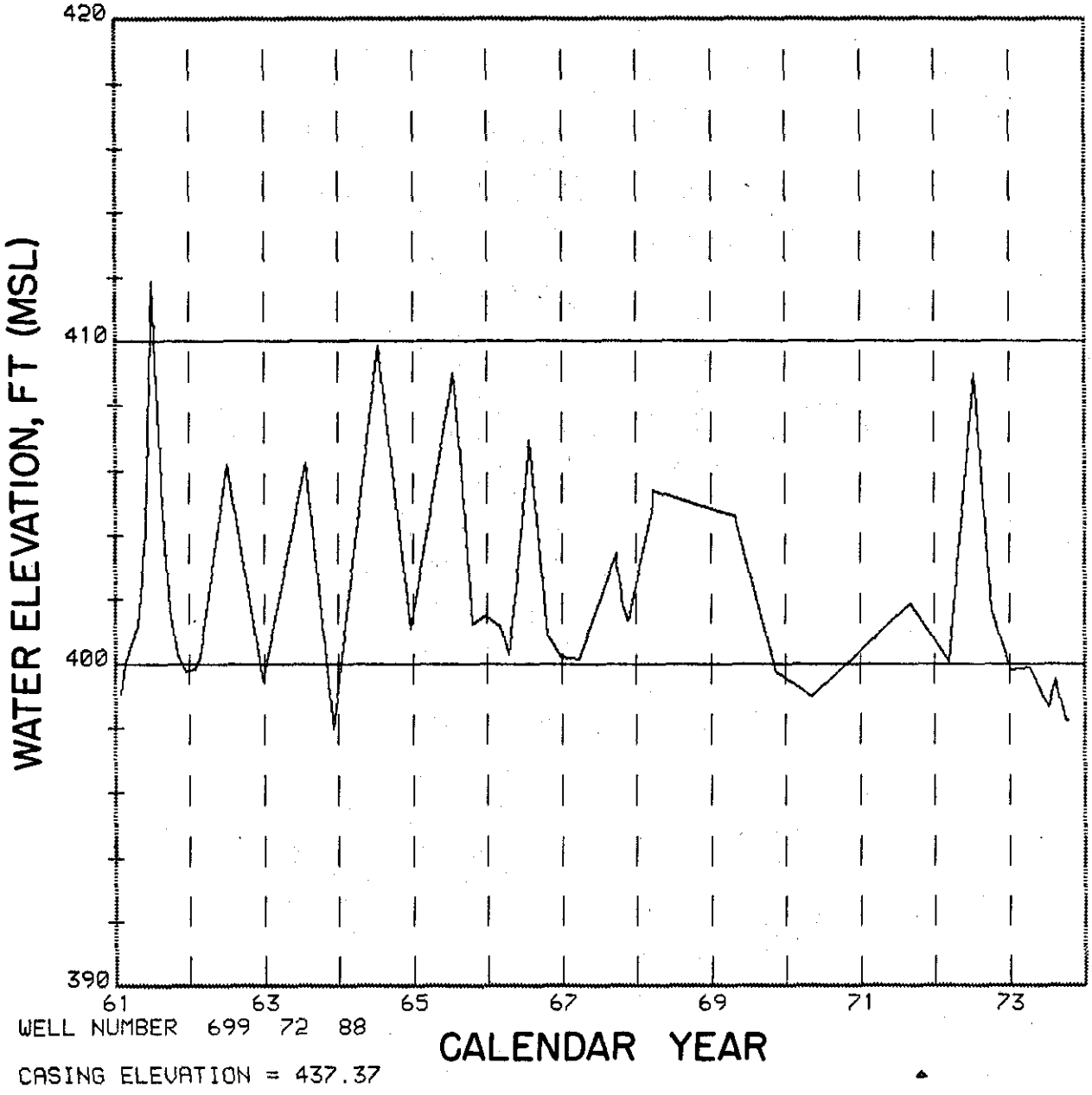


WELL NUMBER 699 72 73

CASING ELEVATION = 482.57


420
410
400
390
WATER ELEVATION, FT (MSL)
48
50
52
54
56
58
60
CALENDAR YEAR
WELL NUMBER 699 72 88
CASING ELEVATION = 437.37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410
400
390
WATER ELEVATION, FT (MSL)
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63
65
67
69
71
73
CALENDAR YEAR
WELL NUMBER 699 72 88
CASING ELEVATION = 437.37

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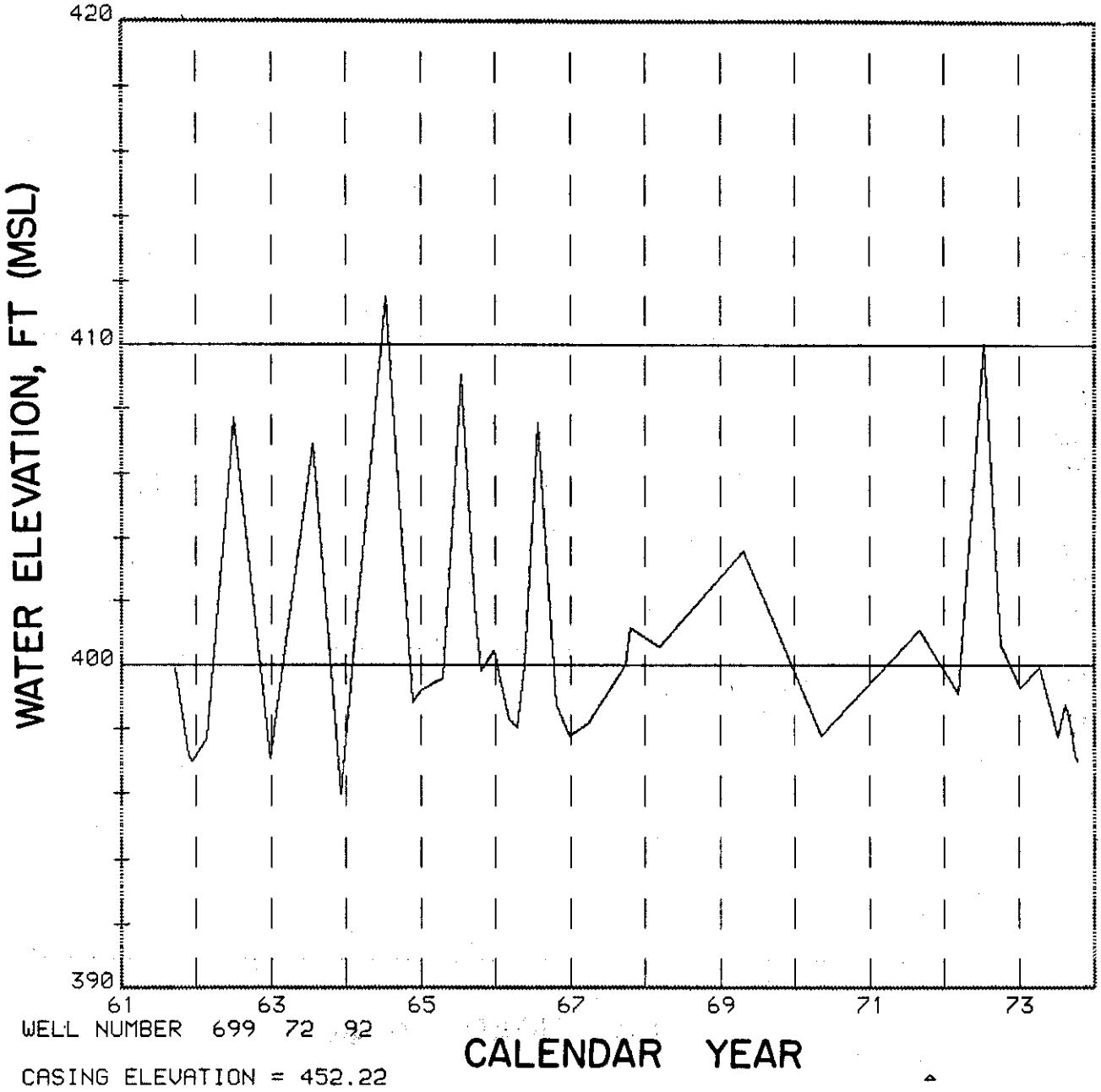
420
410
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390
WATER ELEVATION, FT (MSL)
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63
65
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69
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73
CALENDAR YEAR
WELL NUMBER 699 72 92
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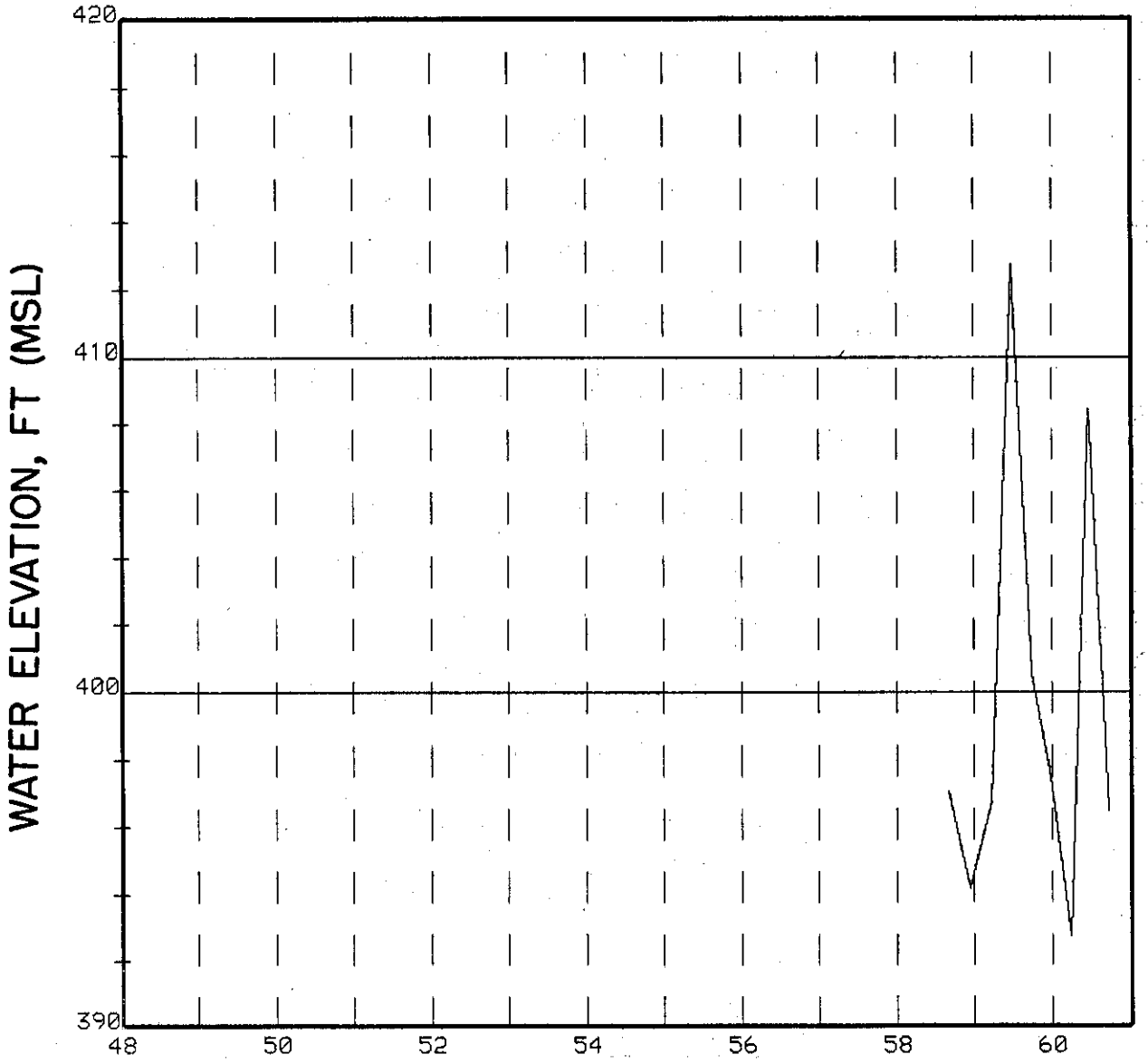

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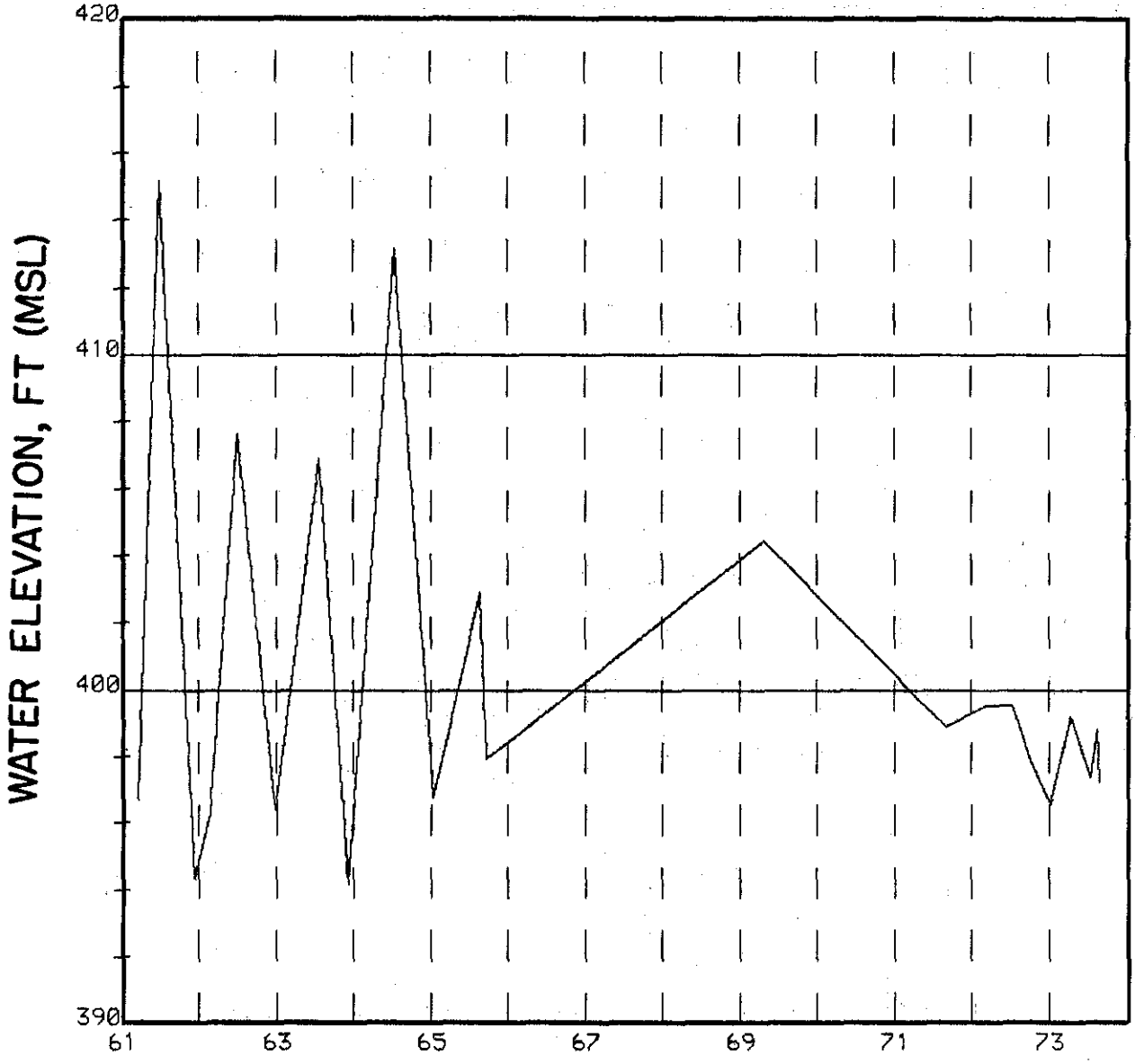
CASING ELEVATION = 454.19



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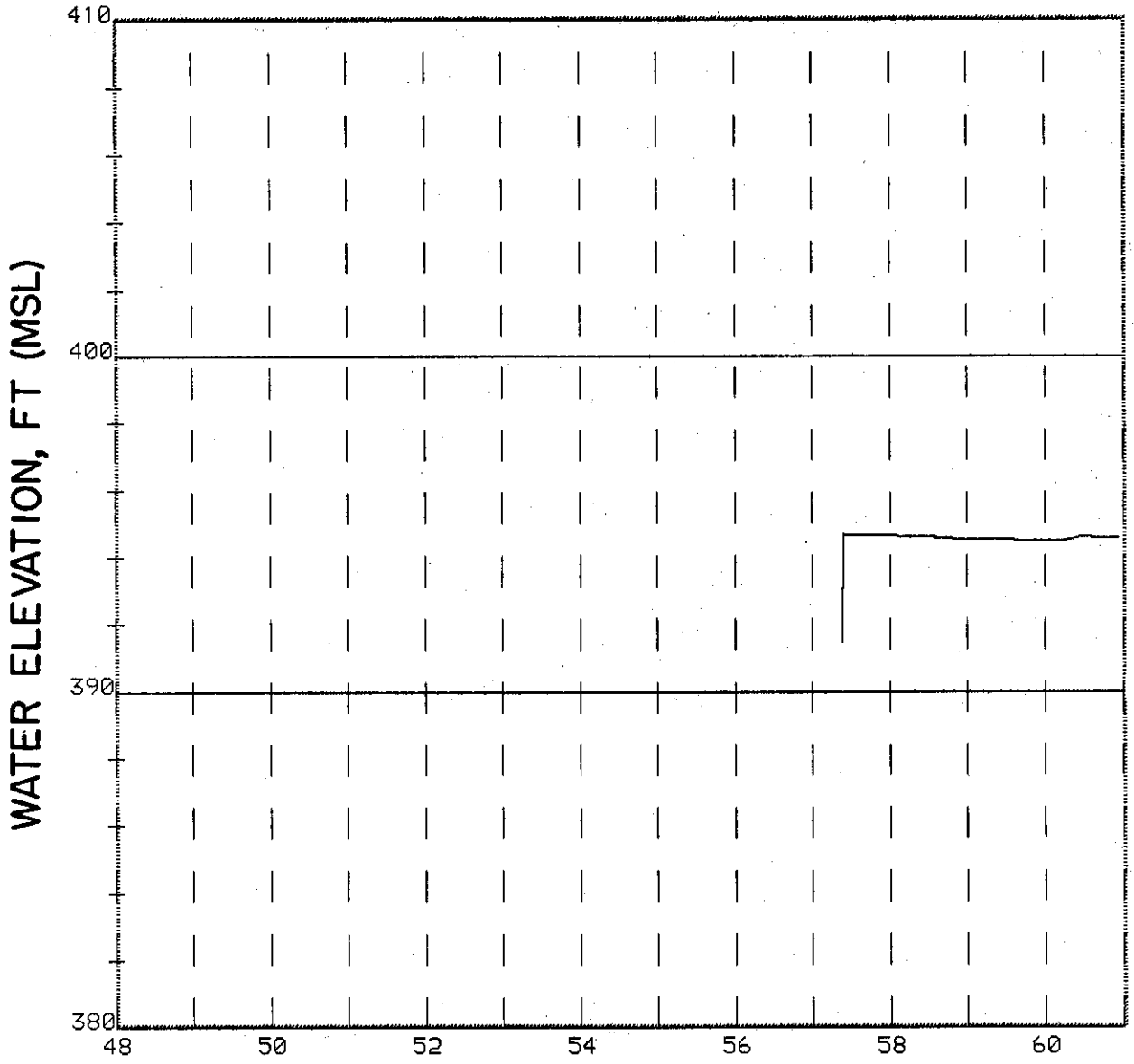
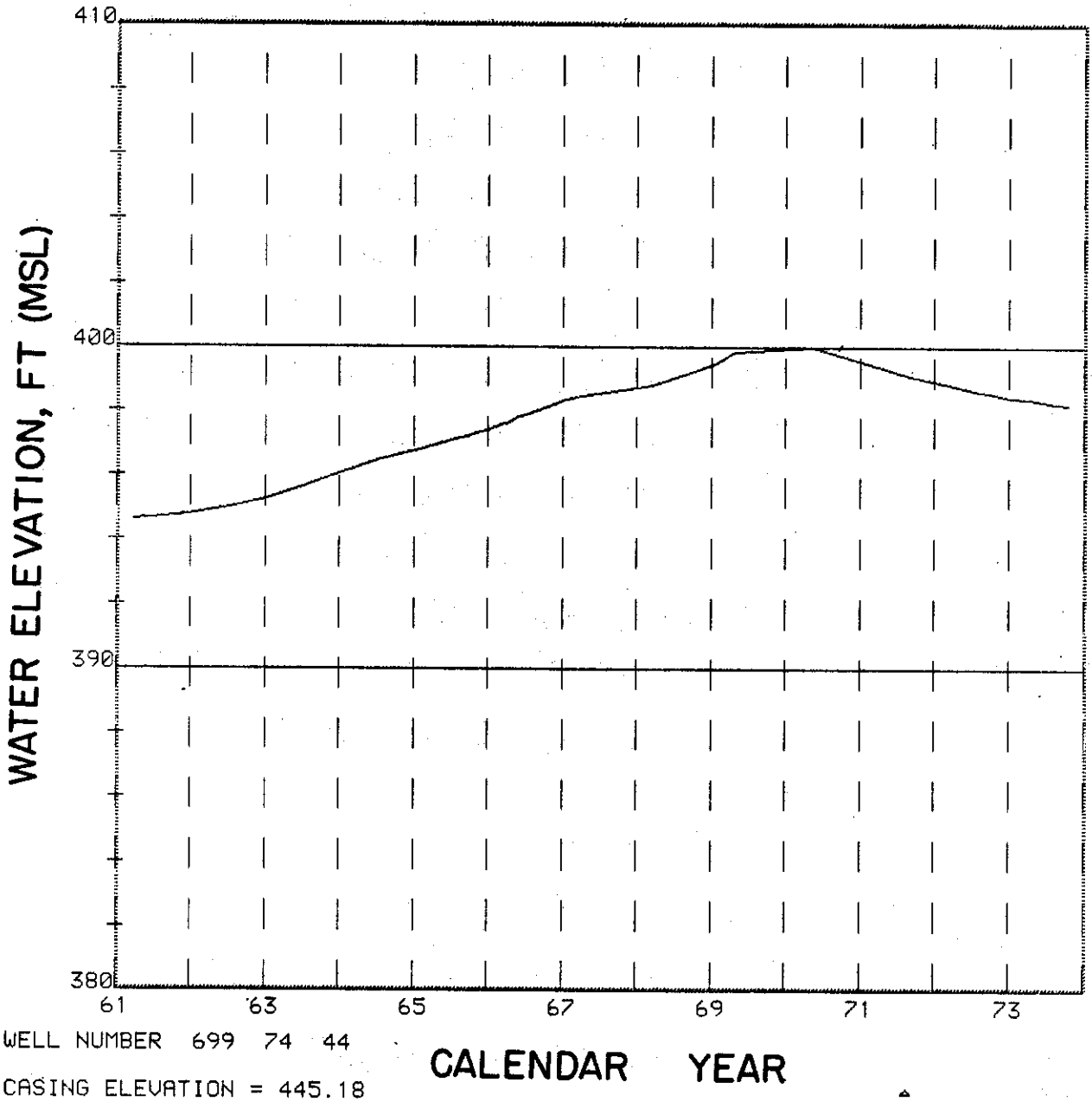
CASING ELEVATION = 454.19



WELL NUMBER 699 74 44

CASING ELEVATION = 445.18


410
400
390
380
WATER ELEVATION, FT (MSL)
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63
65
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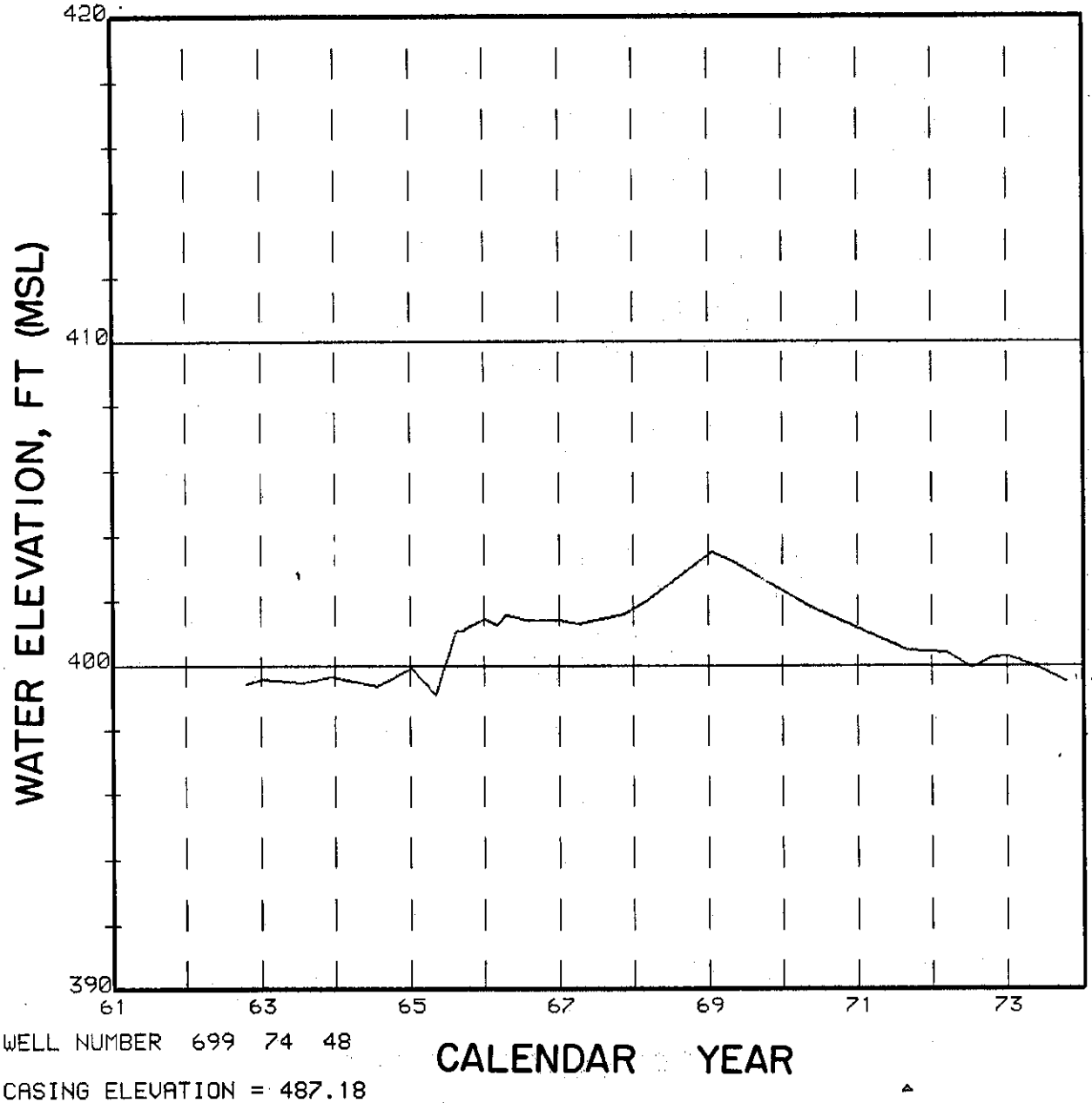
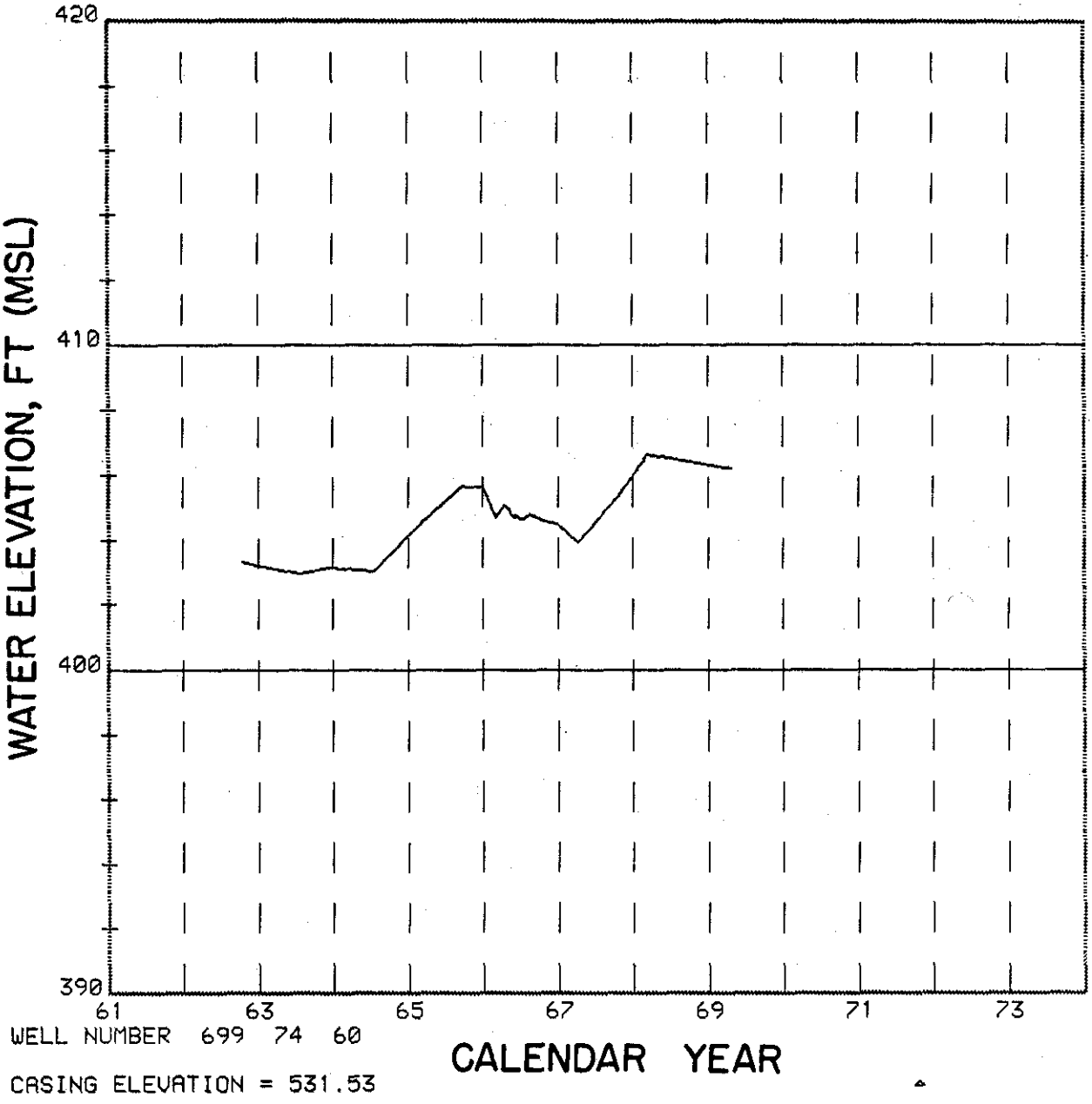
69
71
73
CALENDAR YEAR
WELL NUMBER 699 74 44
CASING ELEVATION = 445.18



WELL NUMBER 699 74 48

CASING ELEVATION = 487.18


420
410
400
390
WATER ELEVATION, FT (MSL)
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63
65
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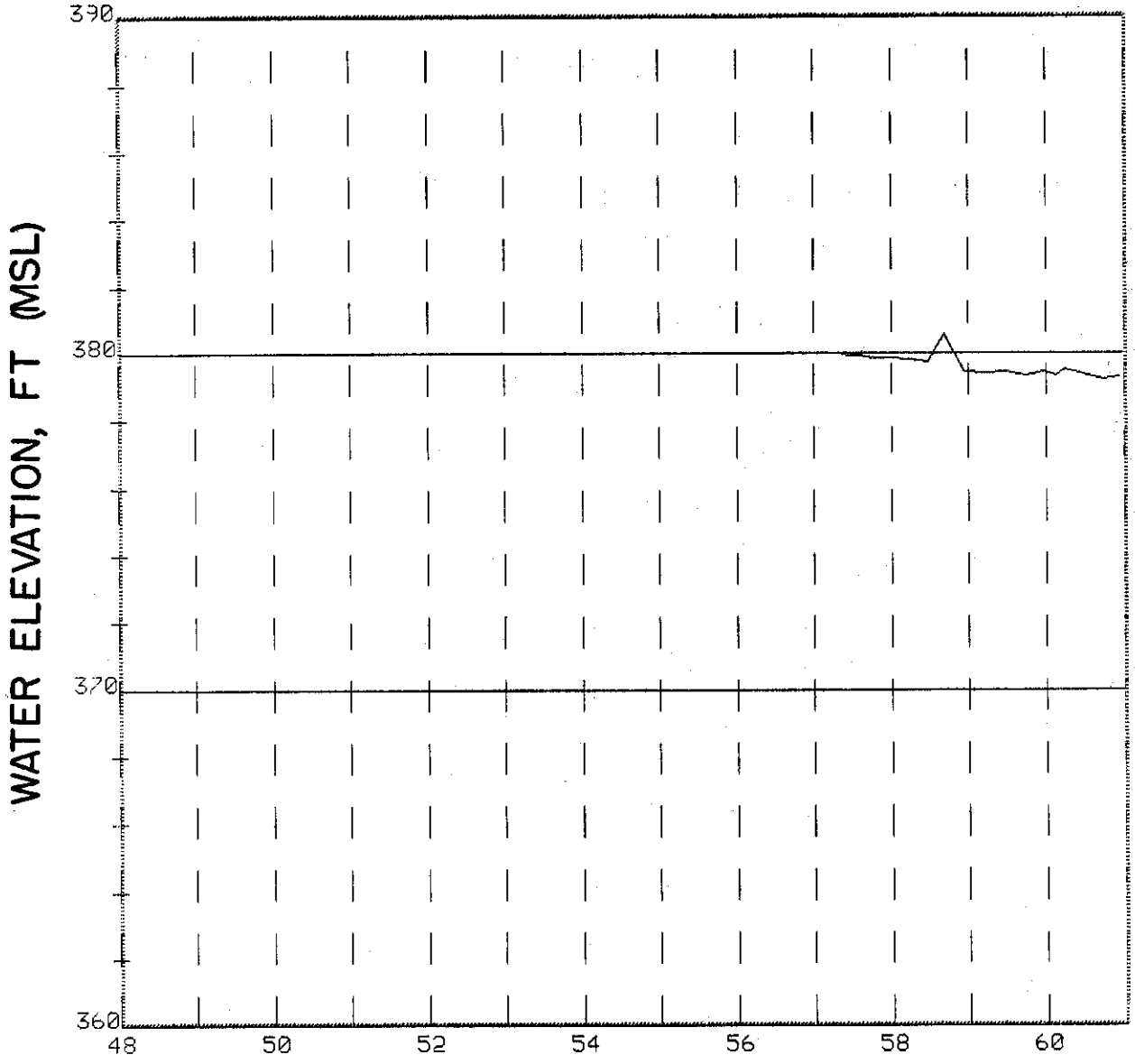
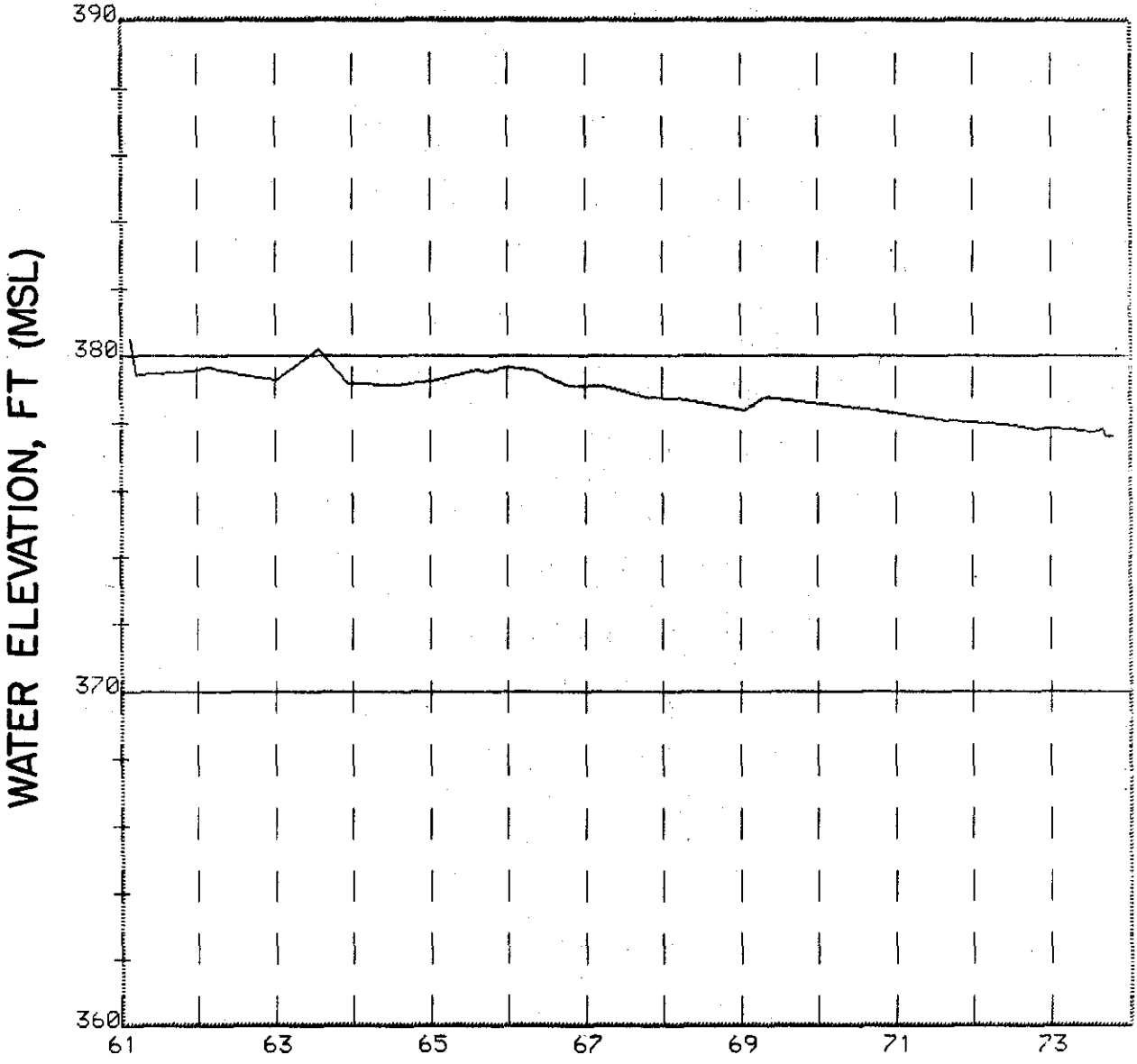
69
71
73
CALENDAR YEAR
WELL NUMBER 699 74 60
CASING ELEVATION = 531.53



WELL NUMBER 699 77 36

CASING ELEVATION = 412.28



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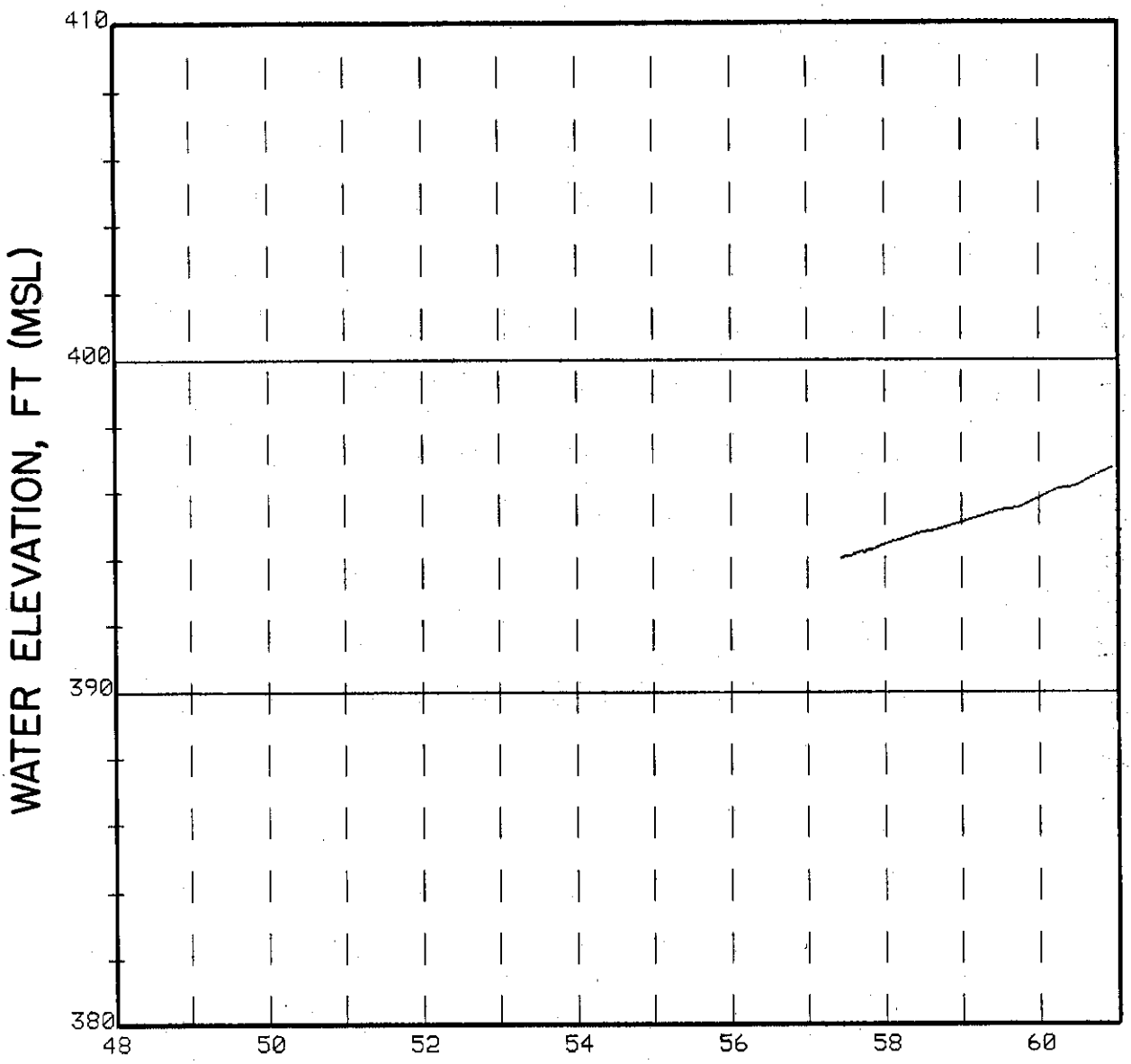

WELL NUMBER 699 77 54

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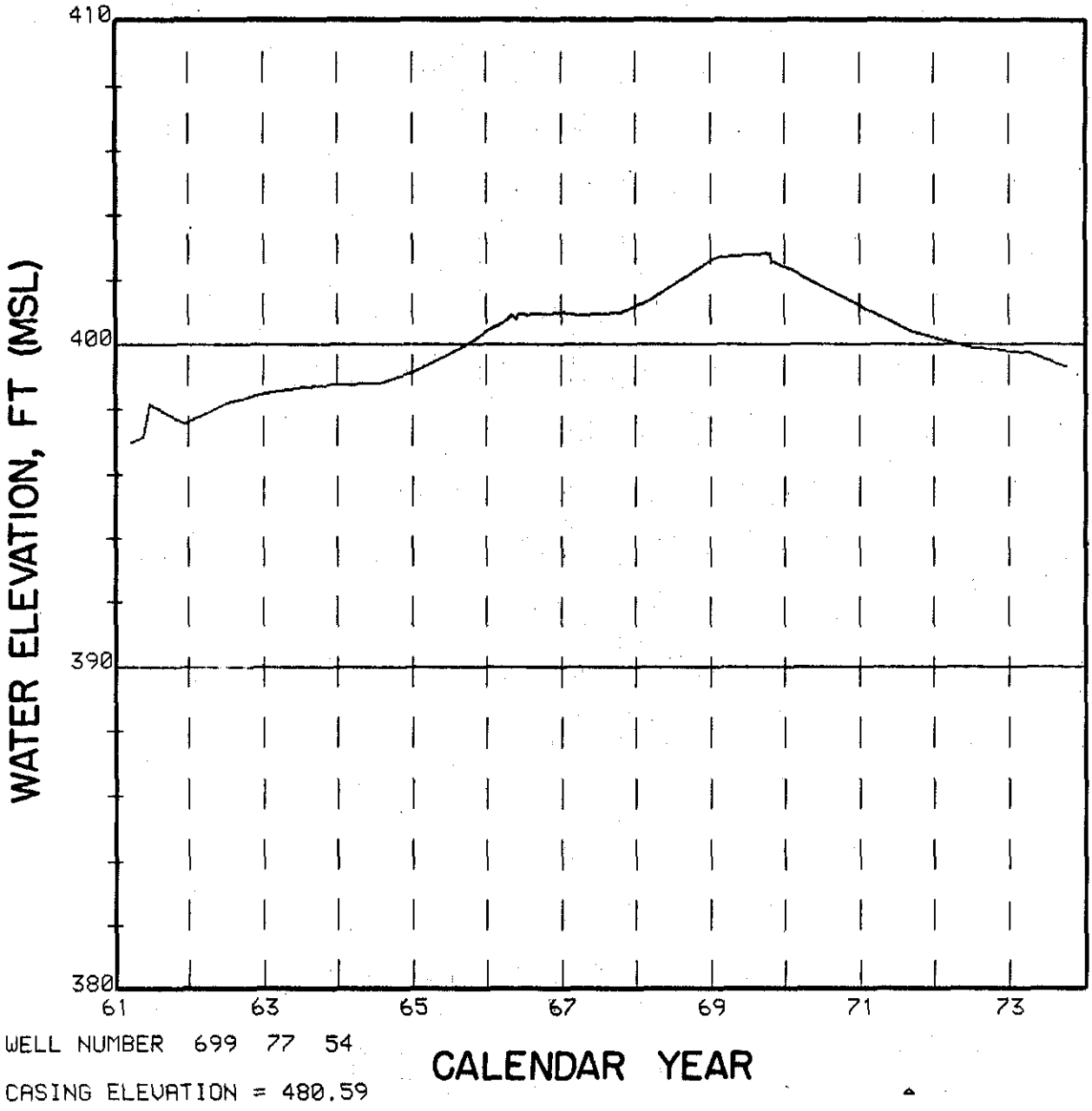

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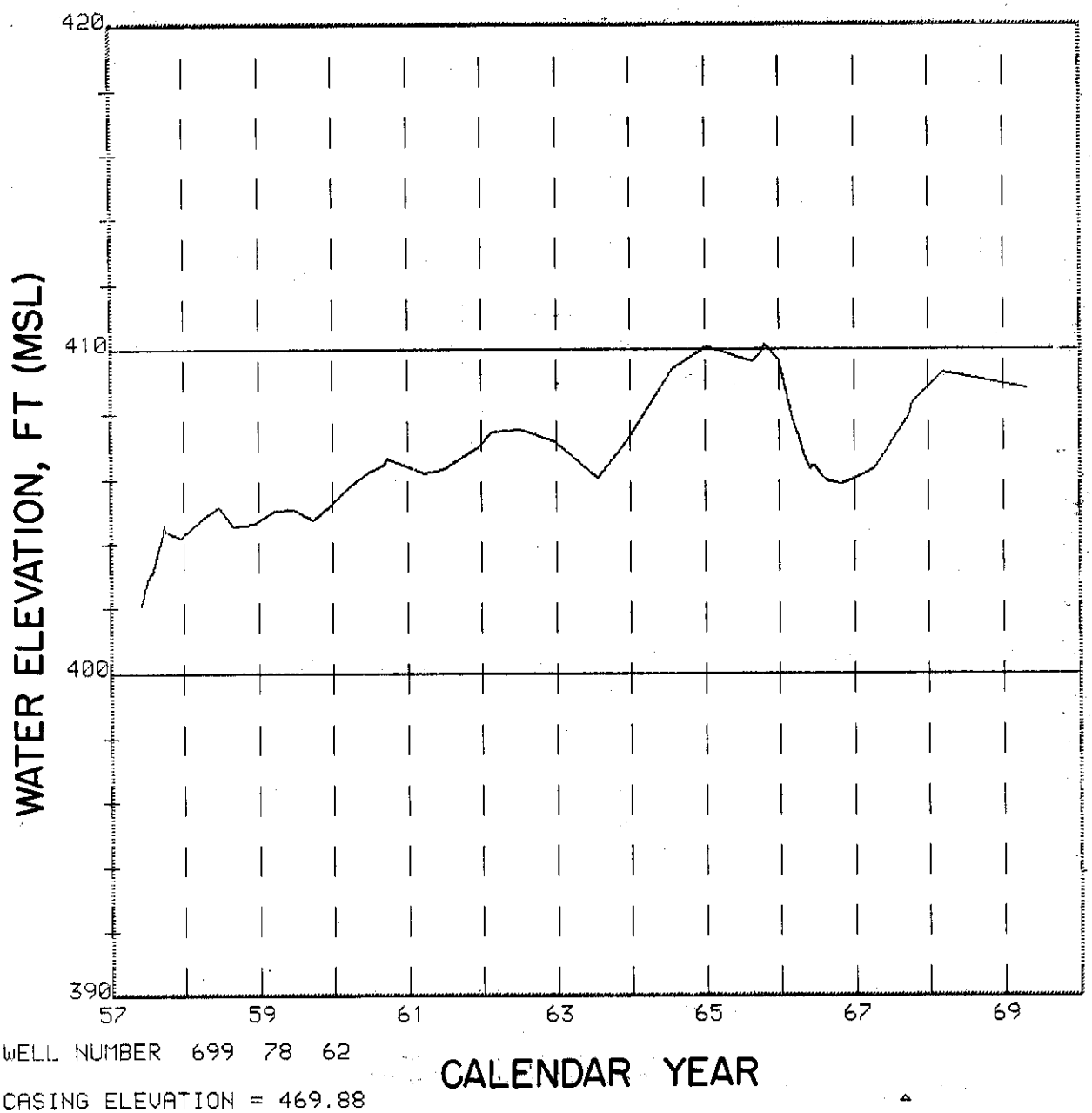
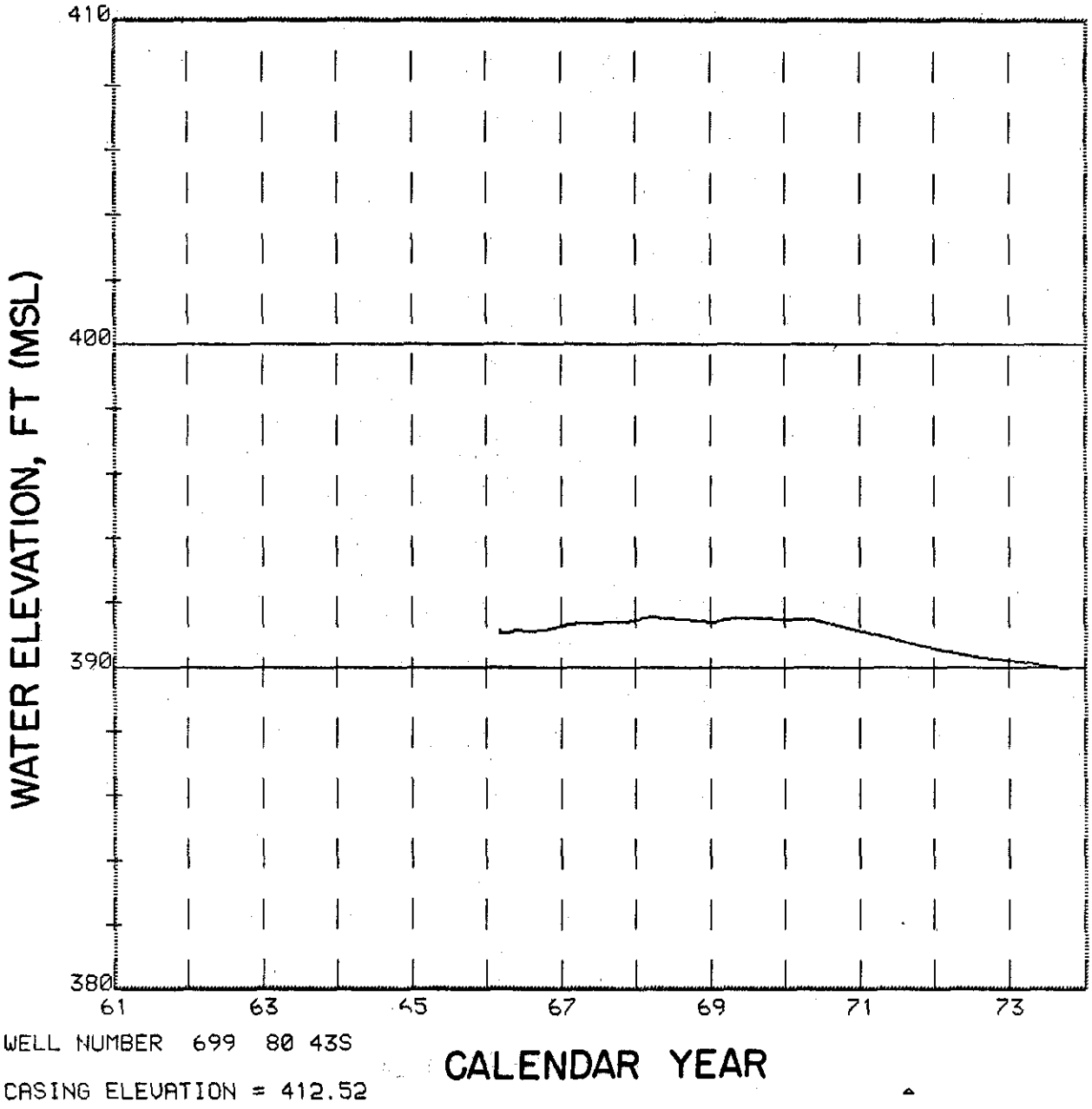


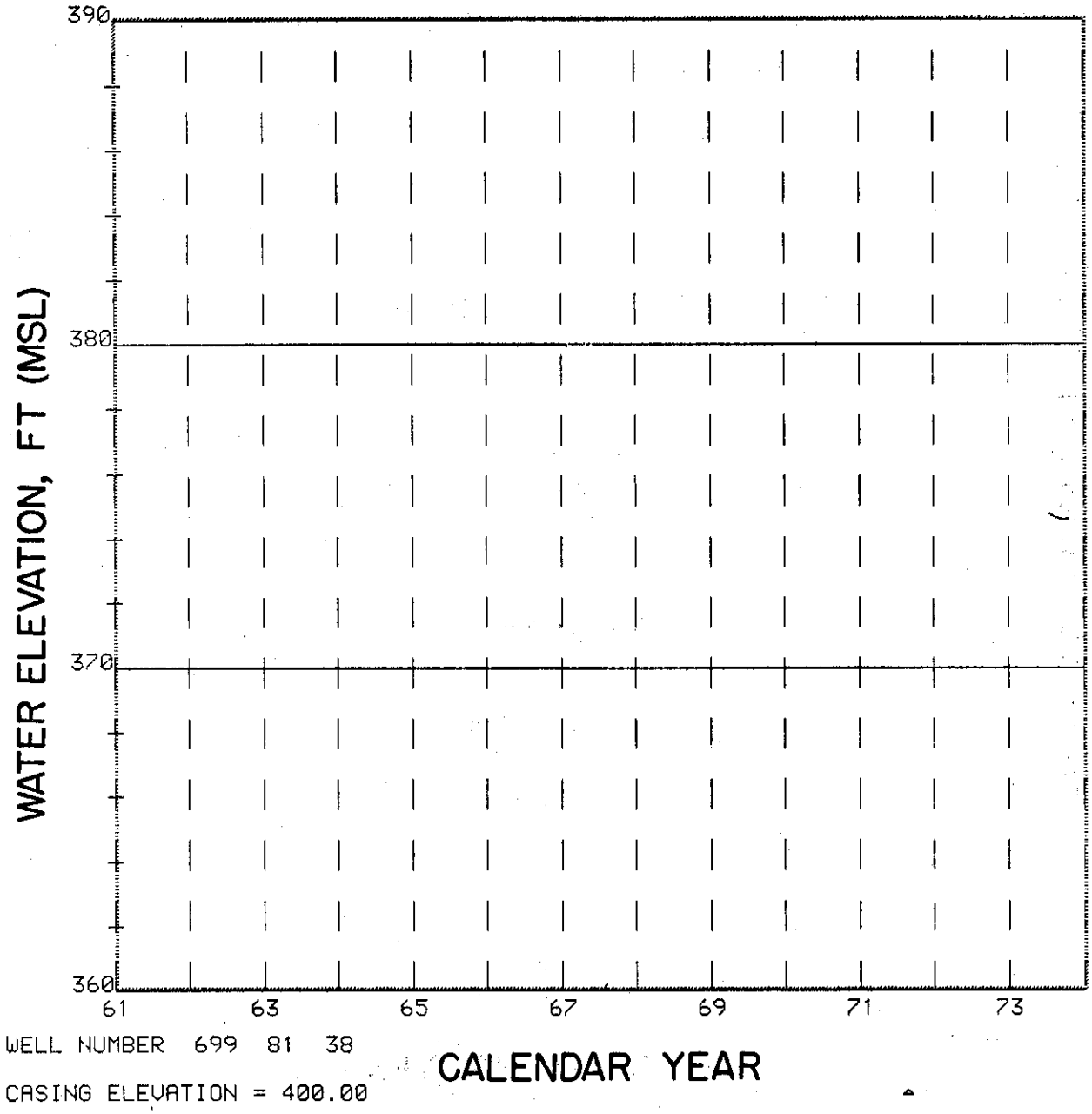
WELL NUMBER 699 78 62

CASING ELEVATION = 469.88



WELL NUMBER 699 80 43S

CASING ELEVATION = 412.52



WELL NUMBER 699 81 38

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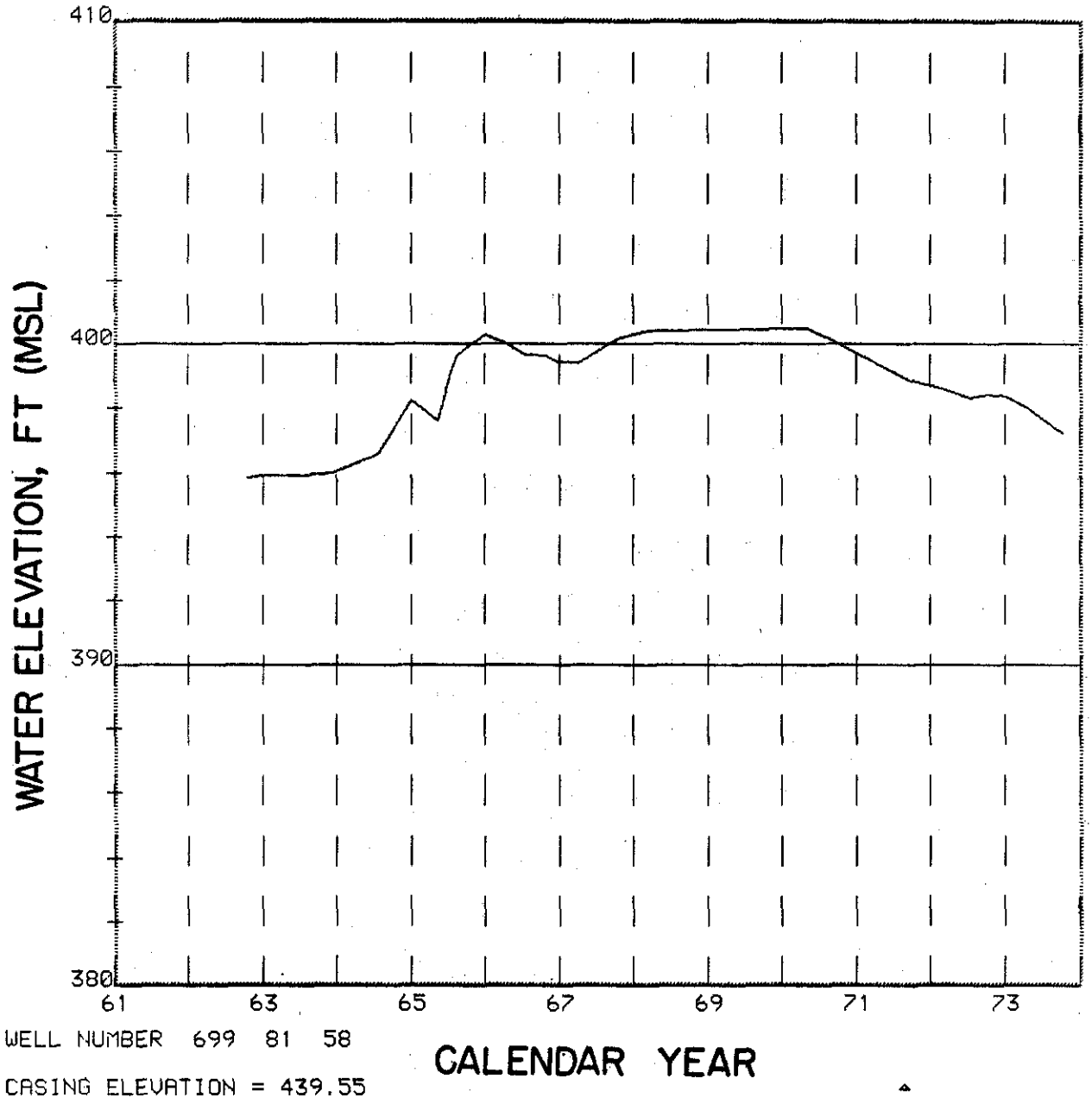
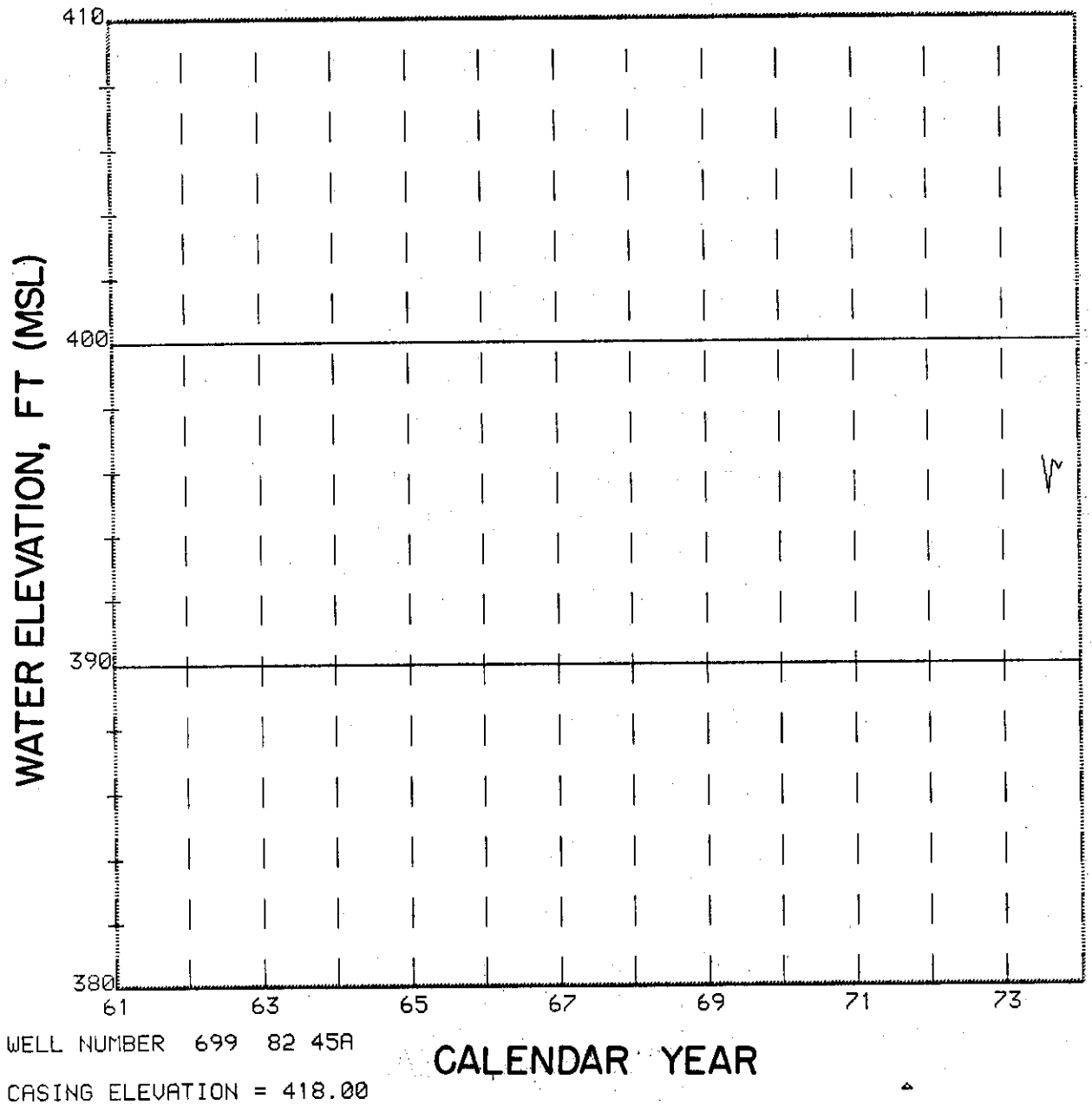

410
400
390
380
WATER ELEVATION, FT (MSL)
61
63
65
67
69
71
73
CALENDAR YEAR
WELL NUMBER 699 81 58
CASING ELEVATION = 439.55



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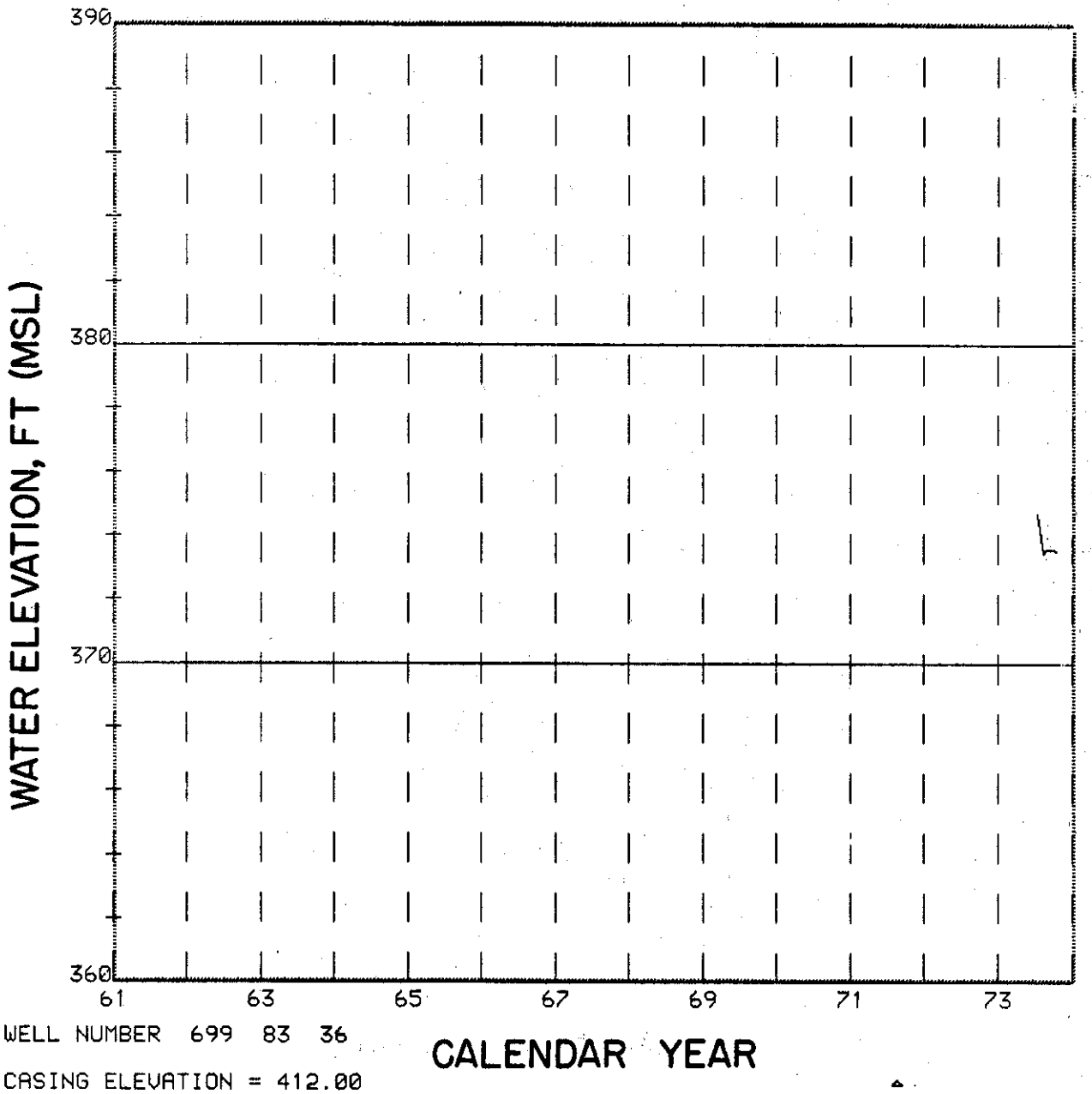

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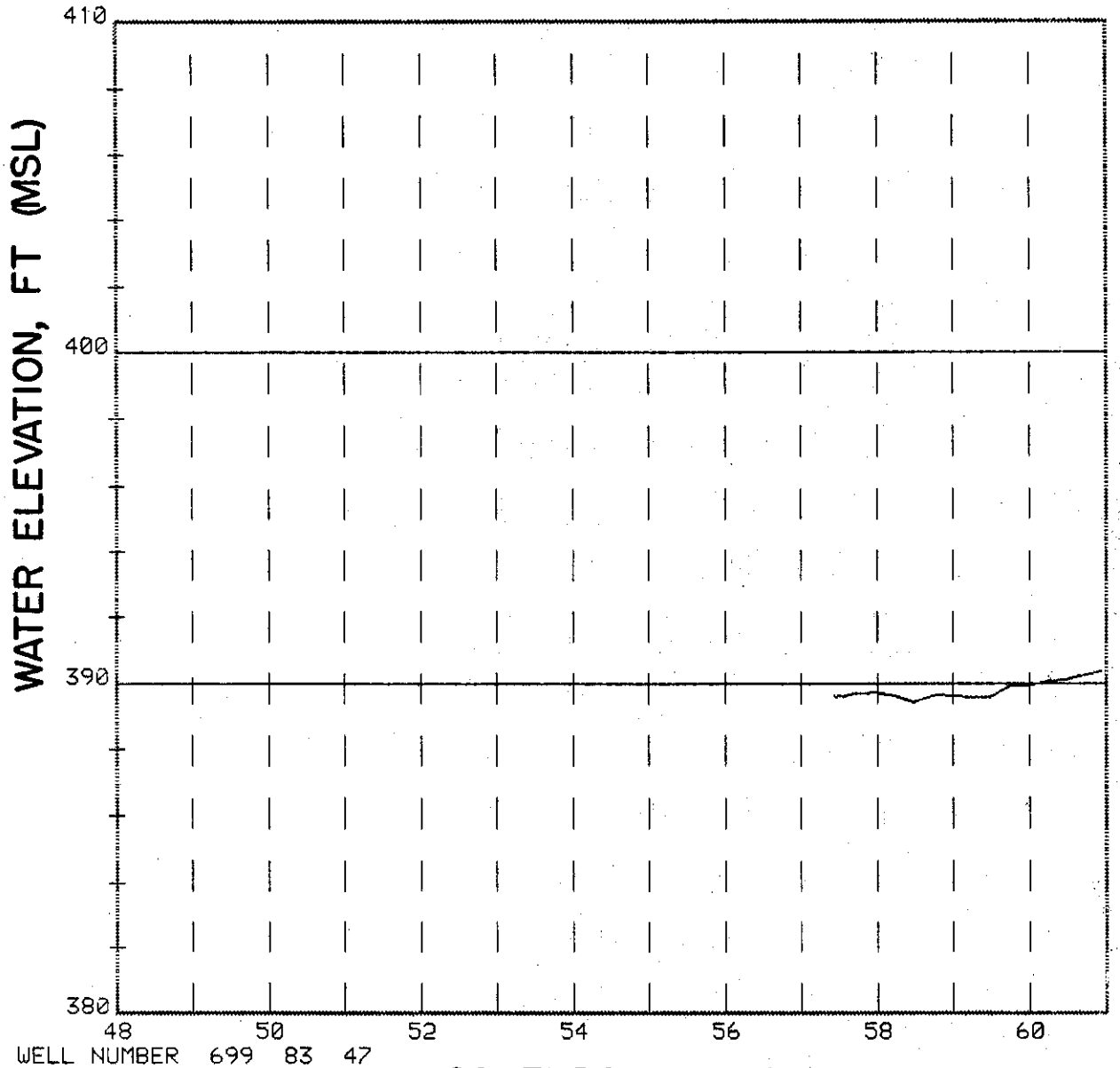

WELL NUMBER 699 83 47

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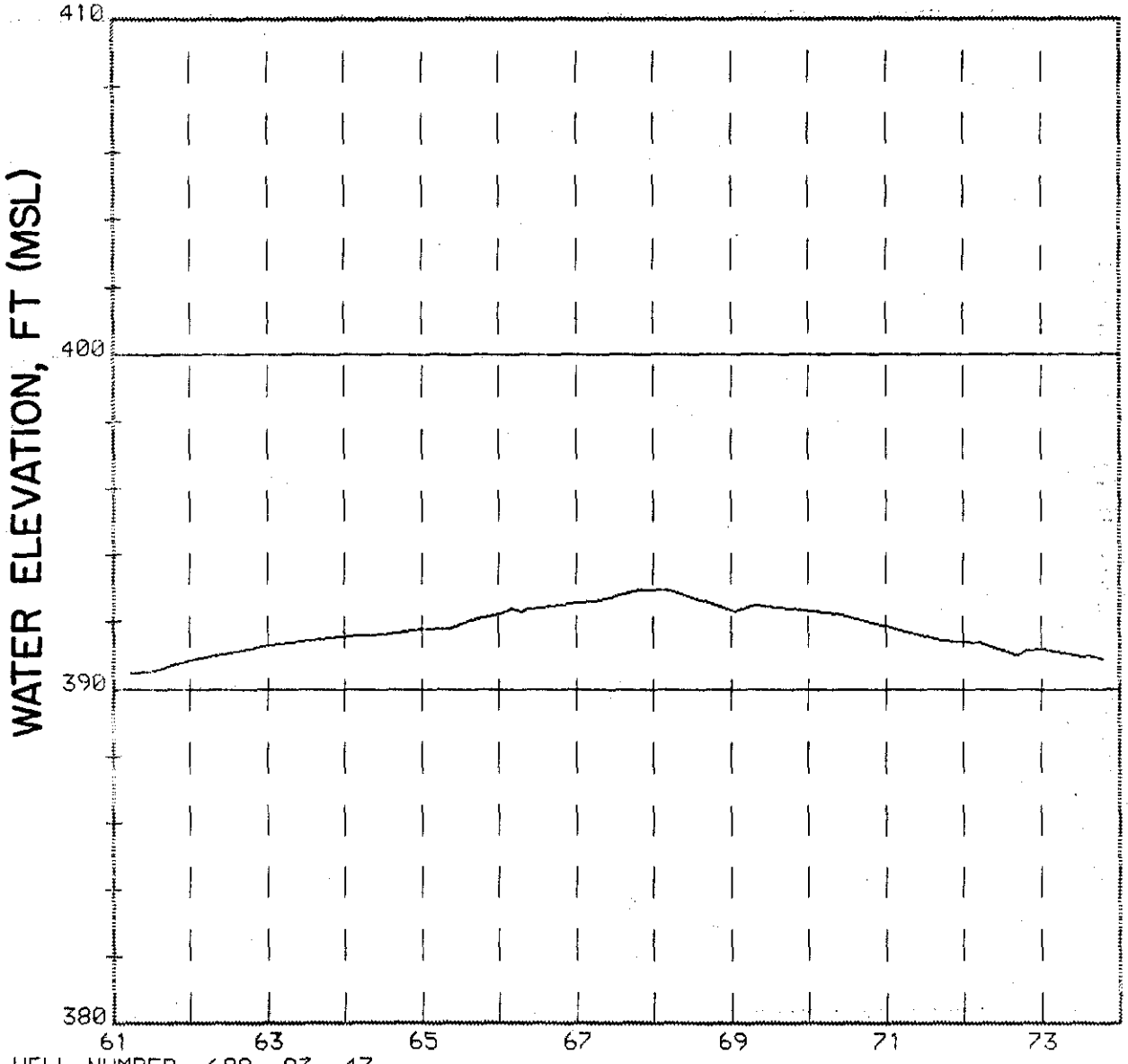

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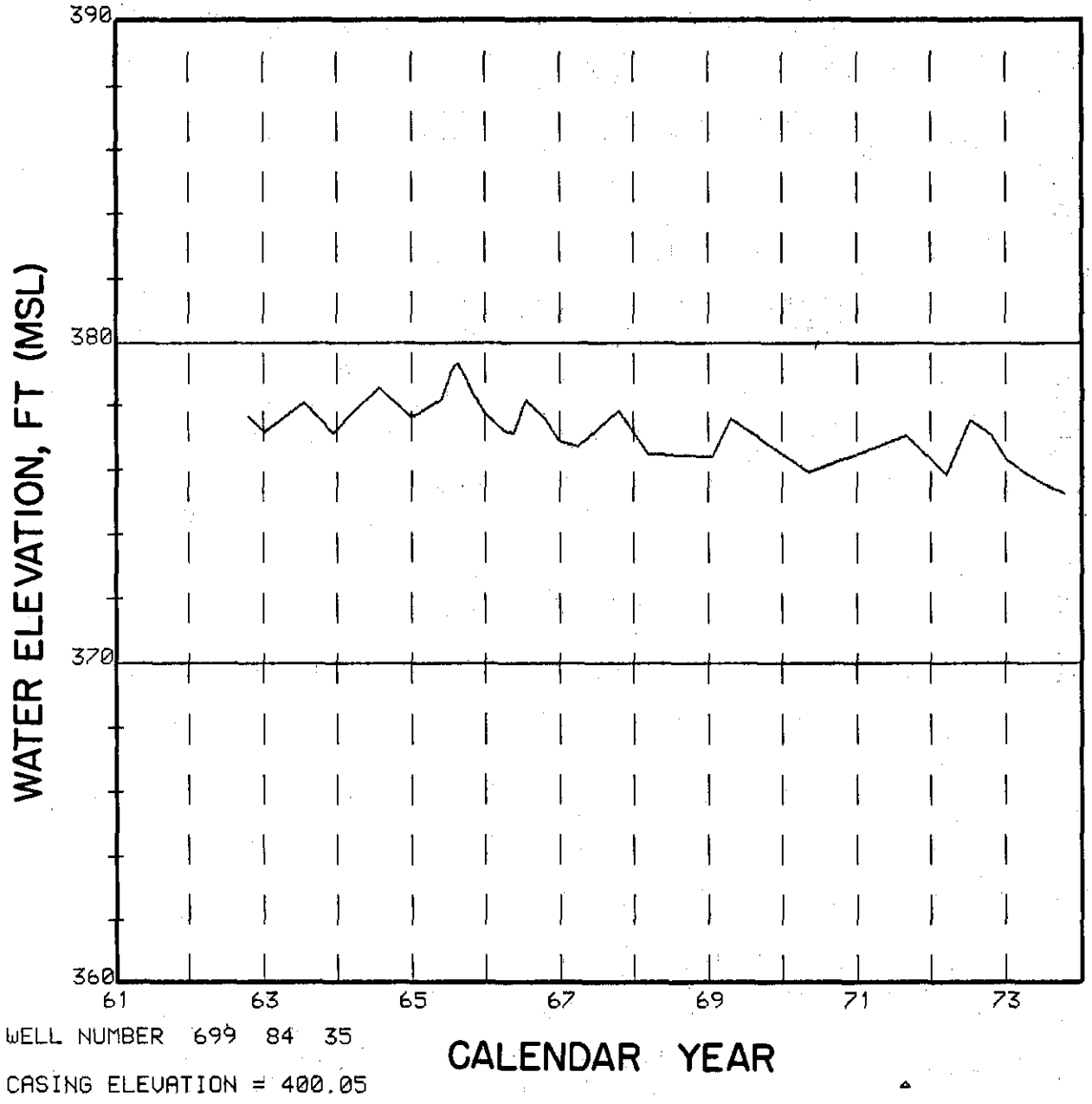

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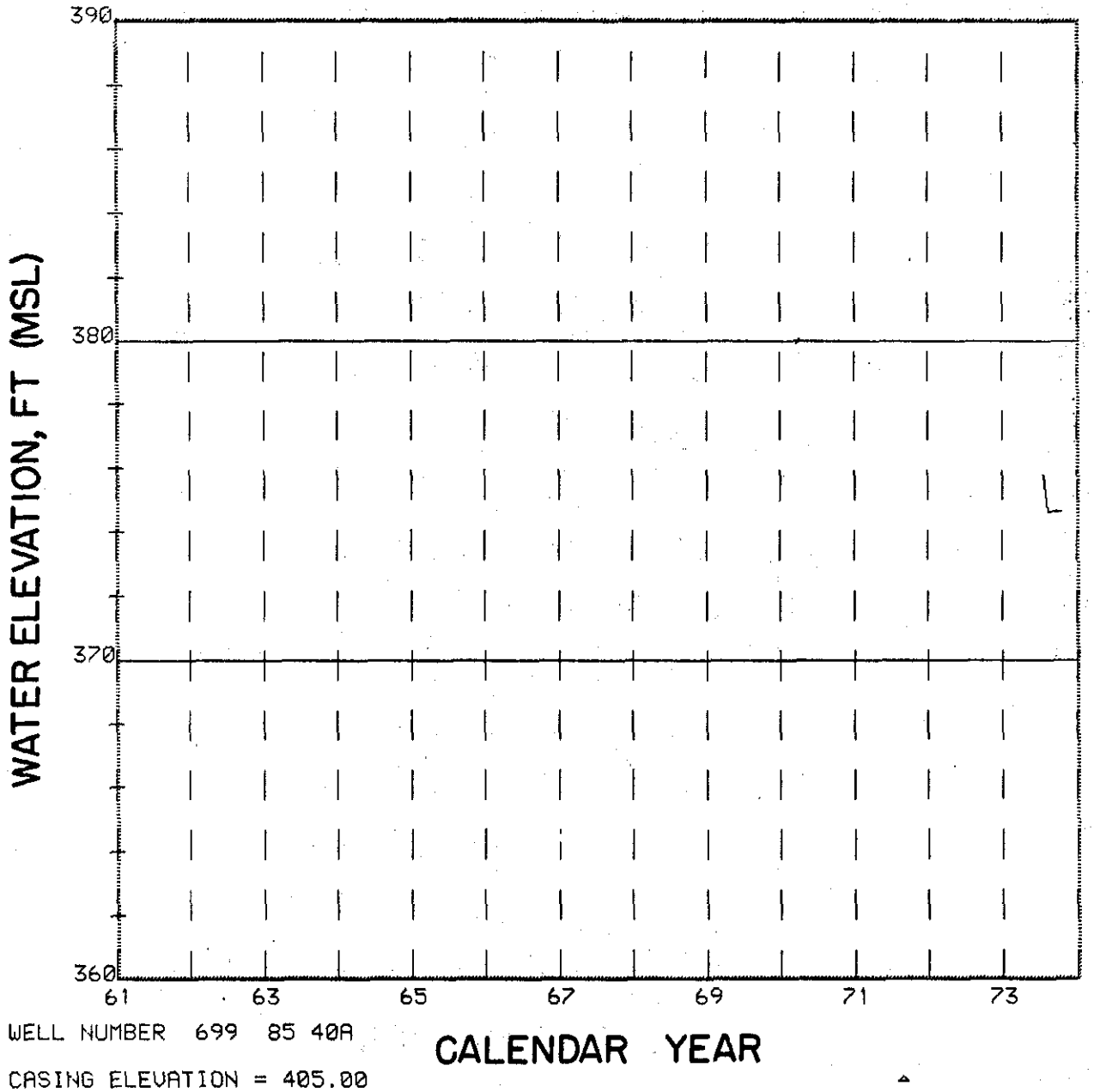

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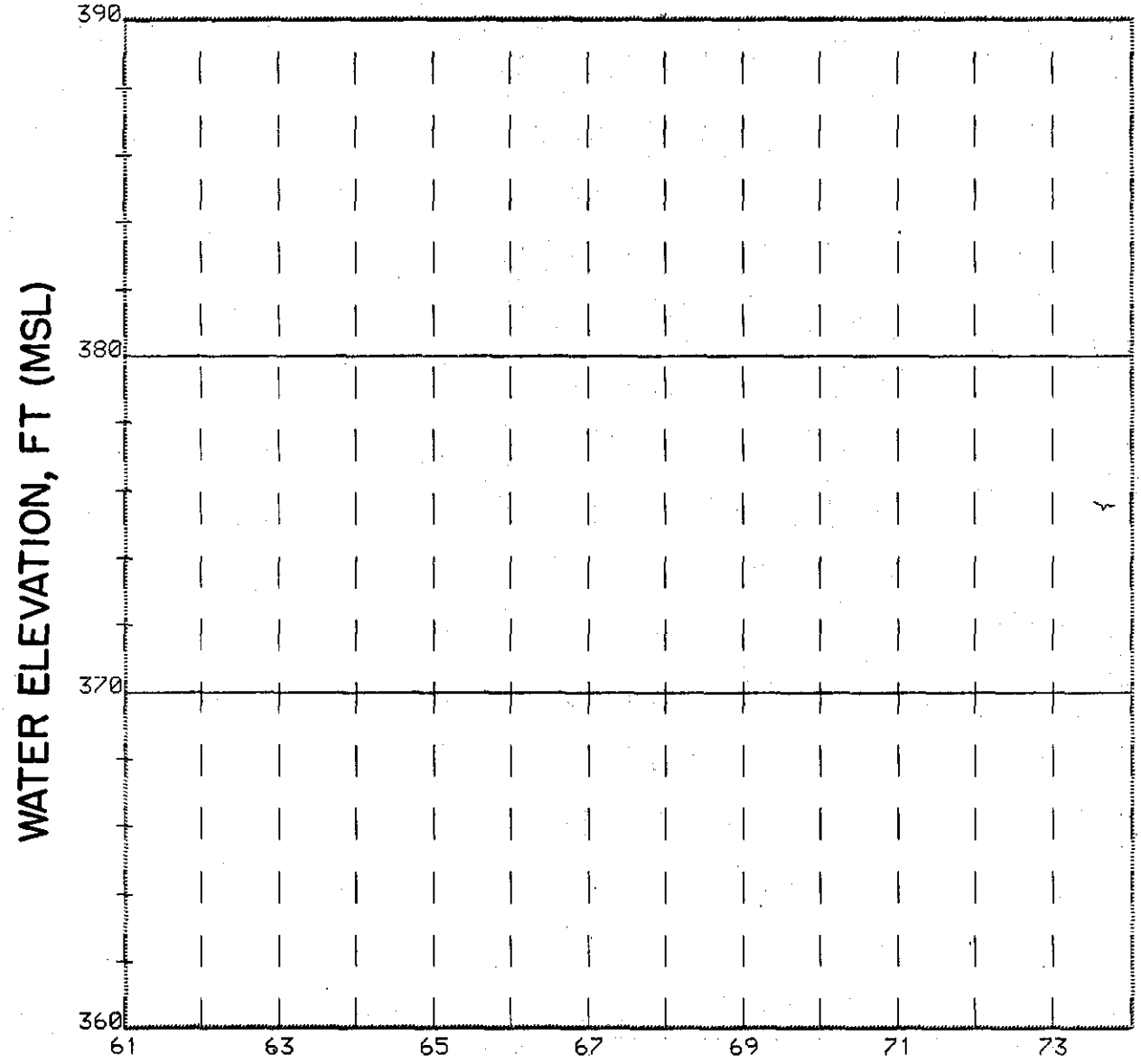

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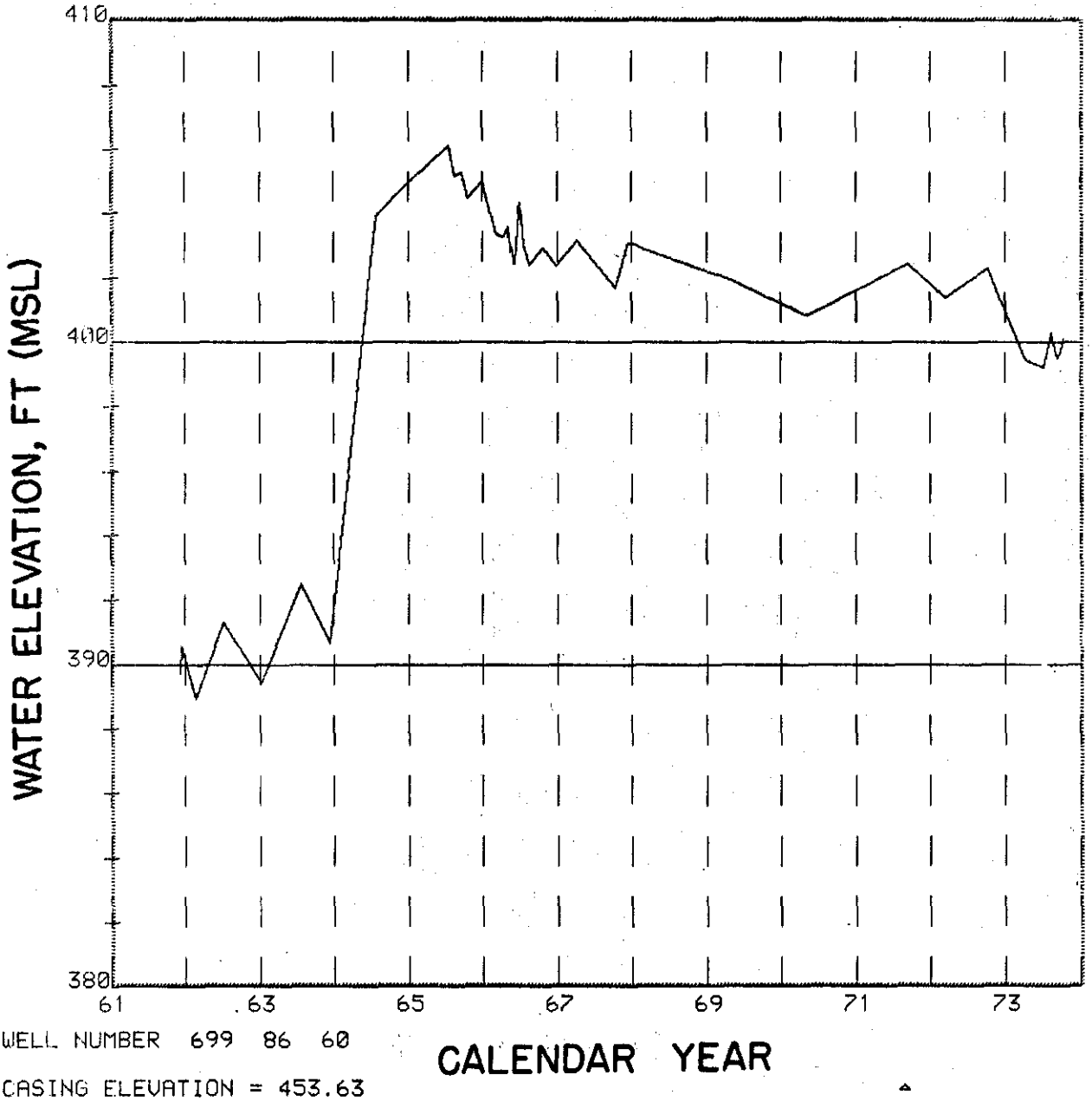

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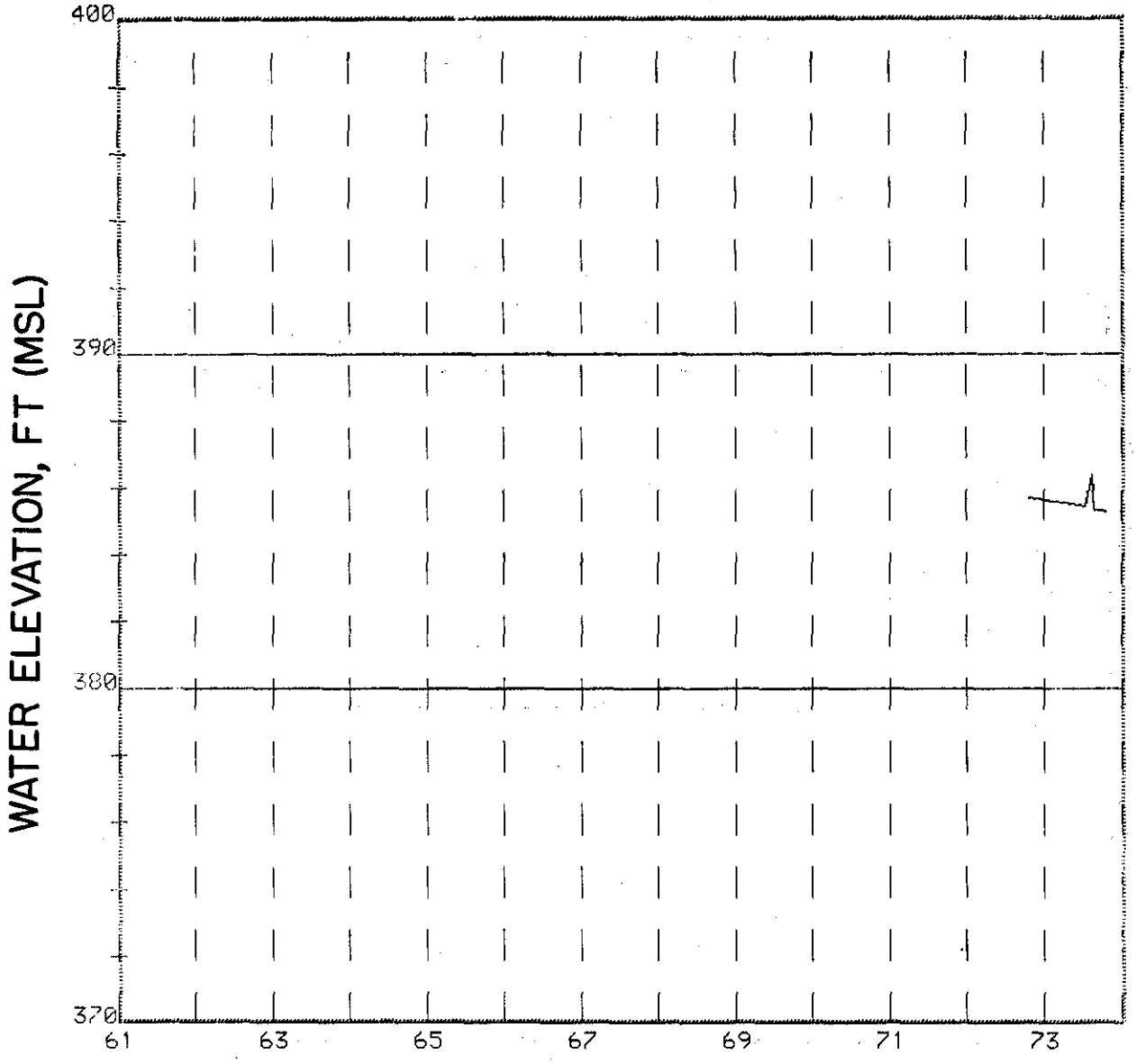

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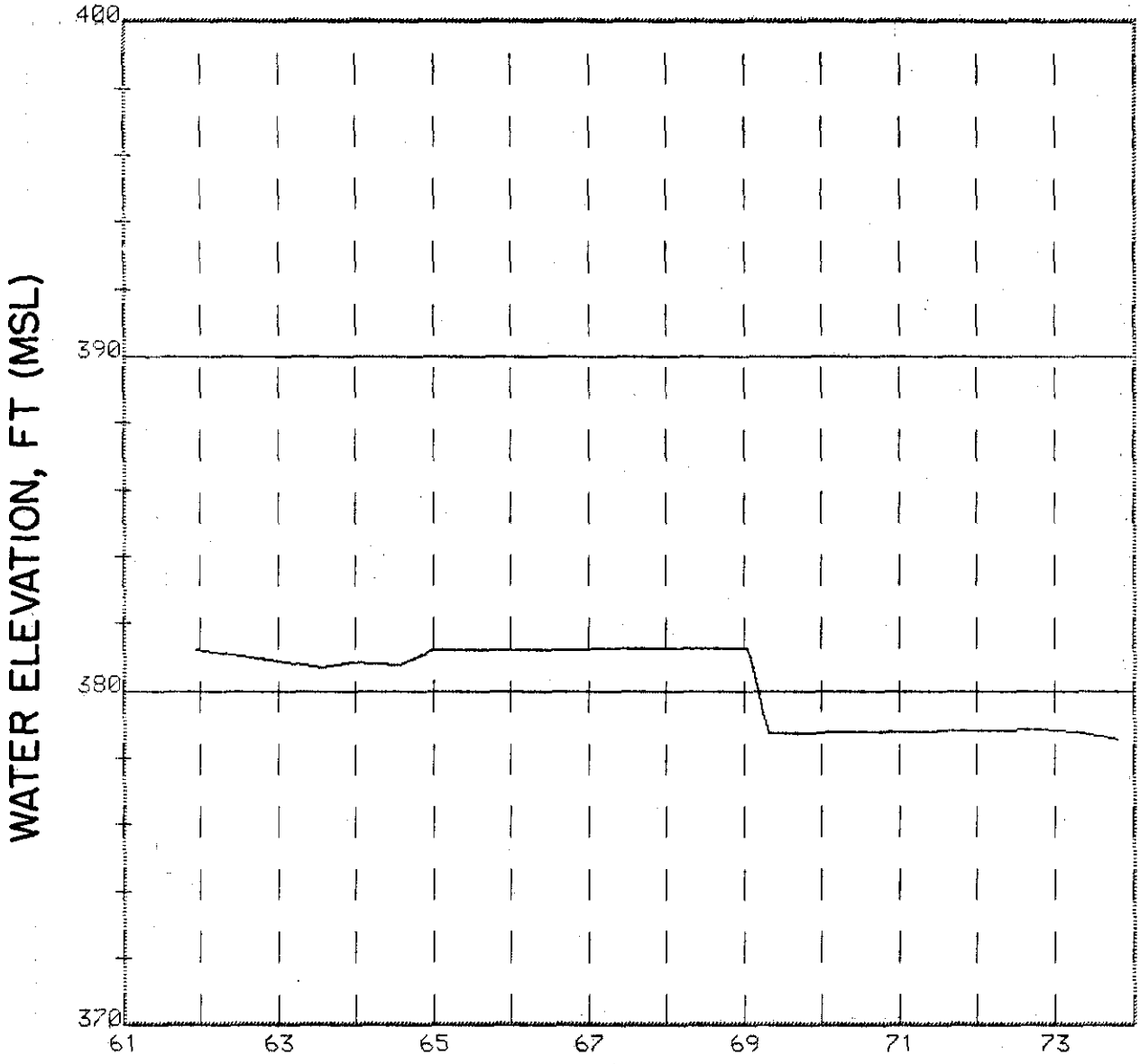

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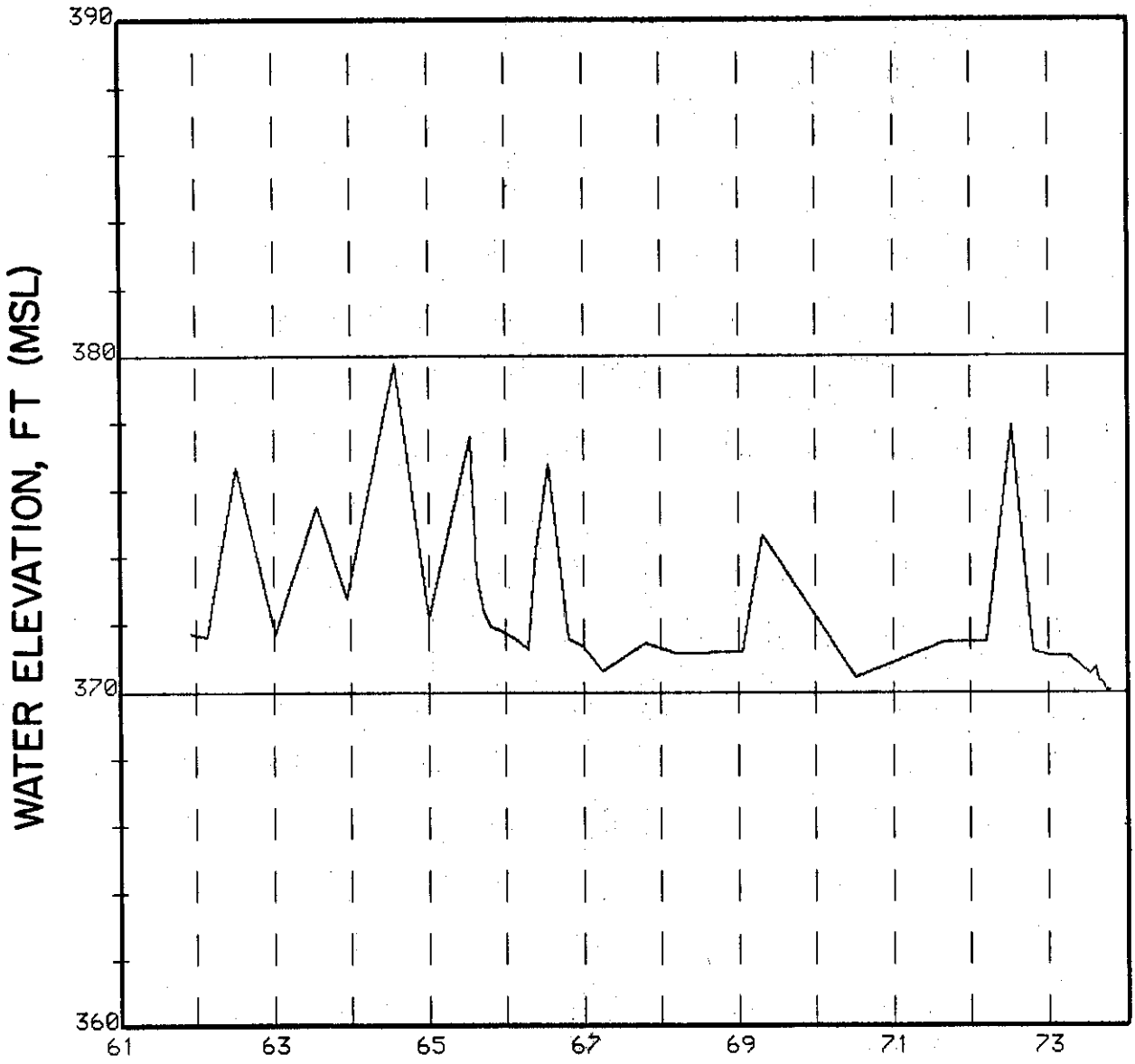

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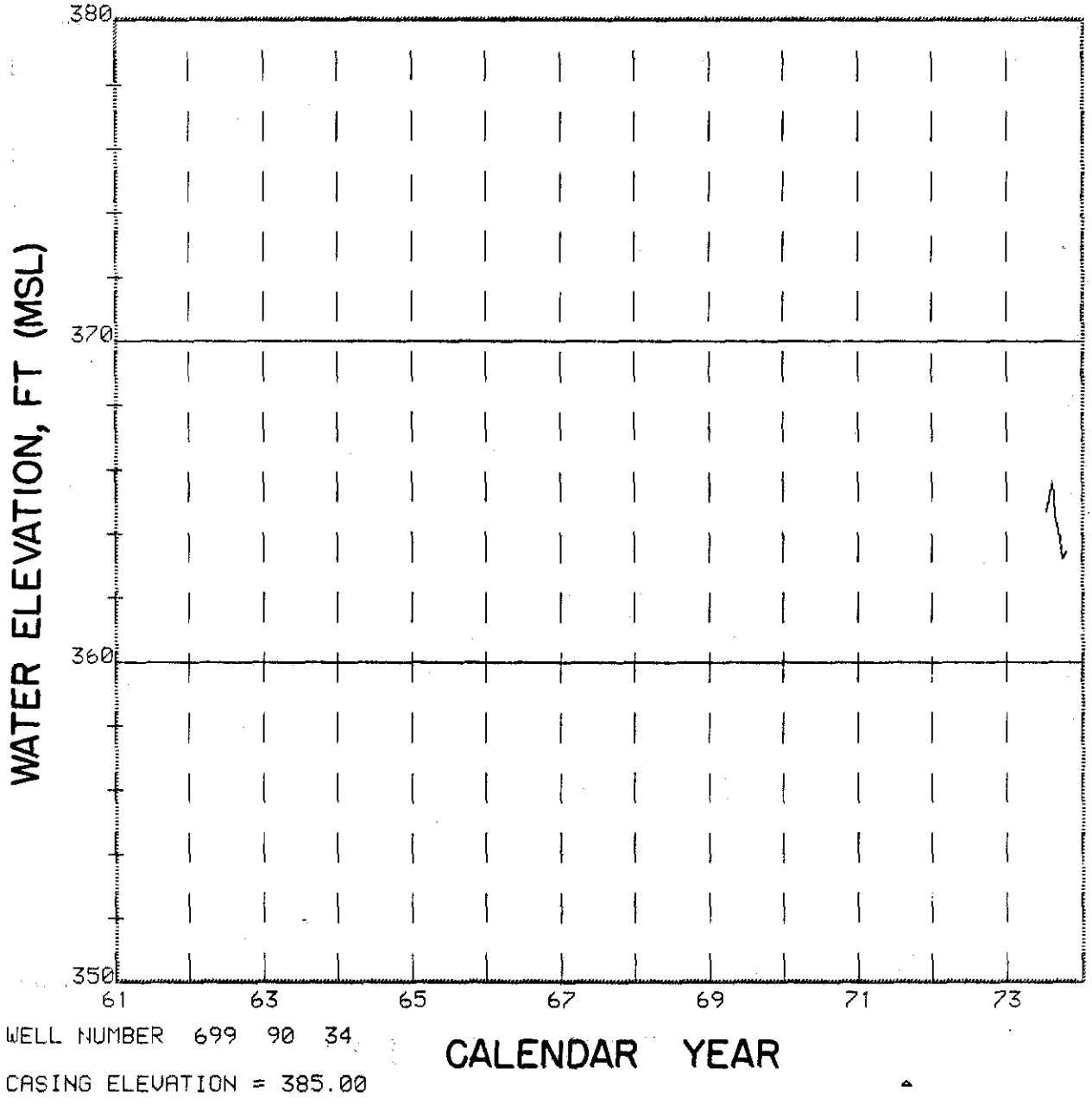

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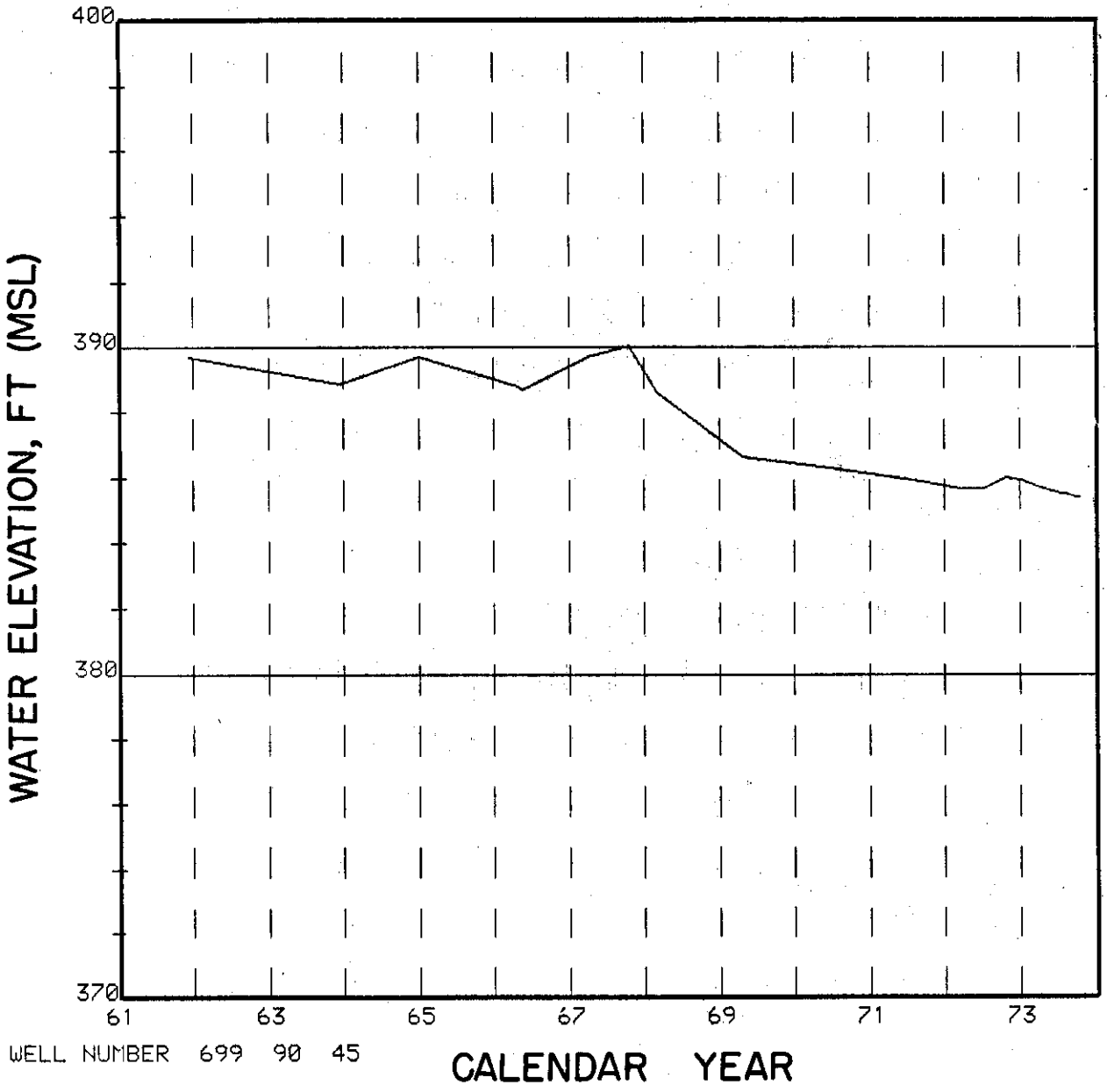

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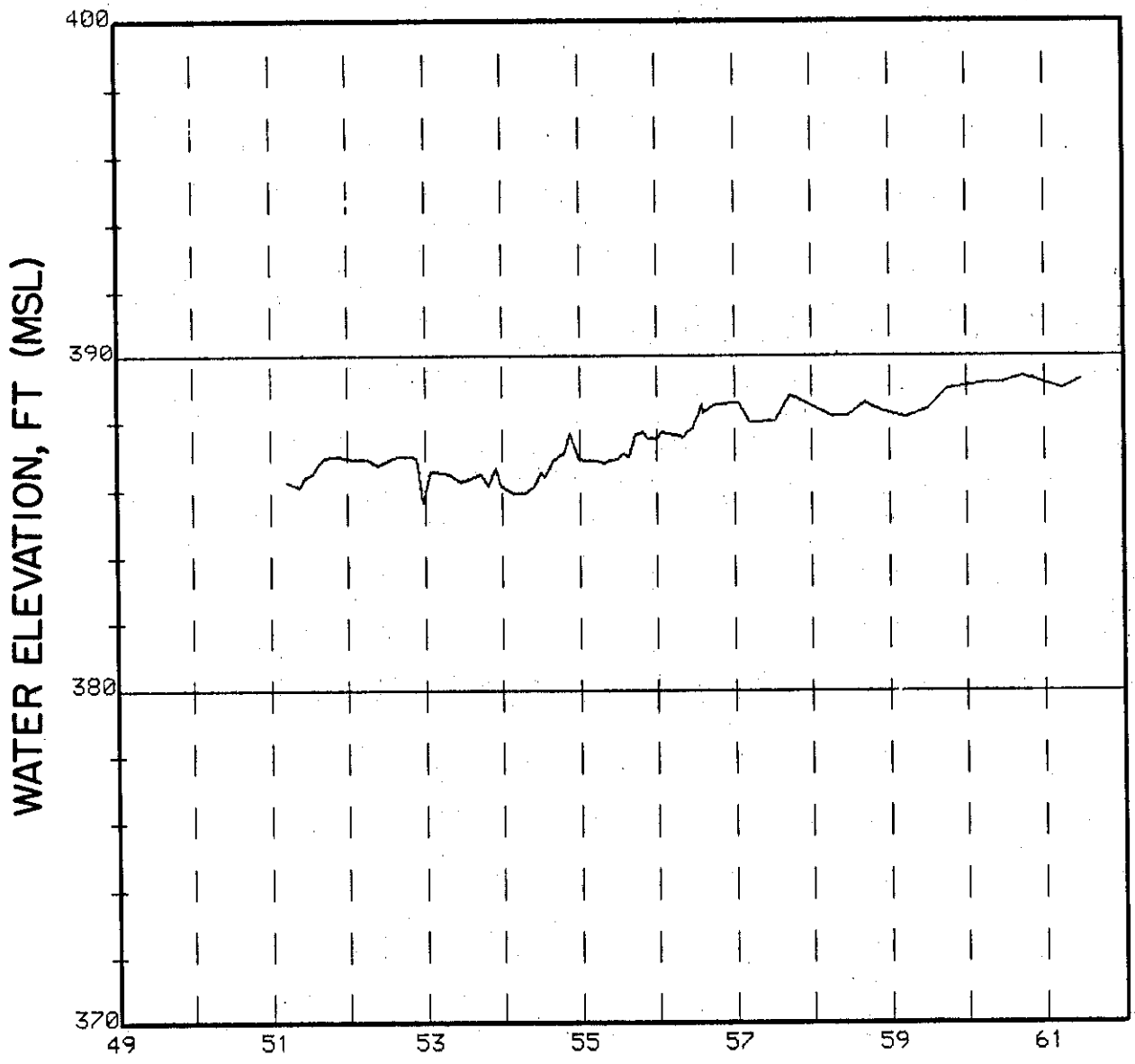

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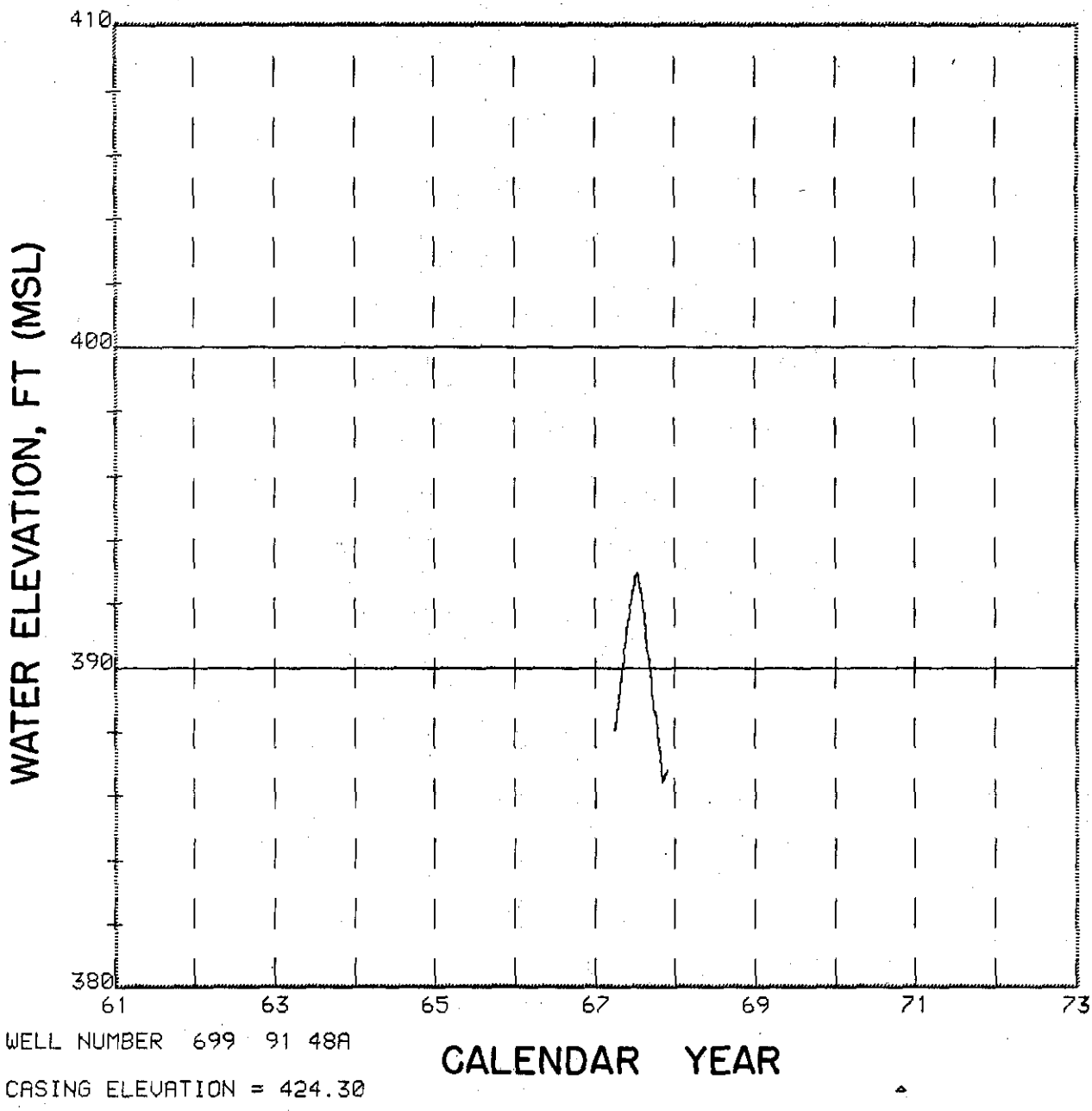

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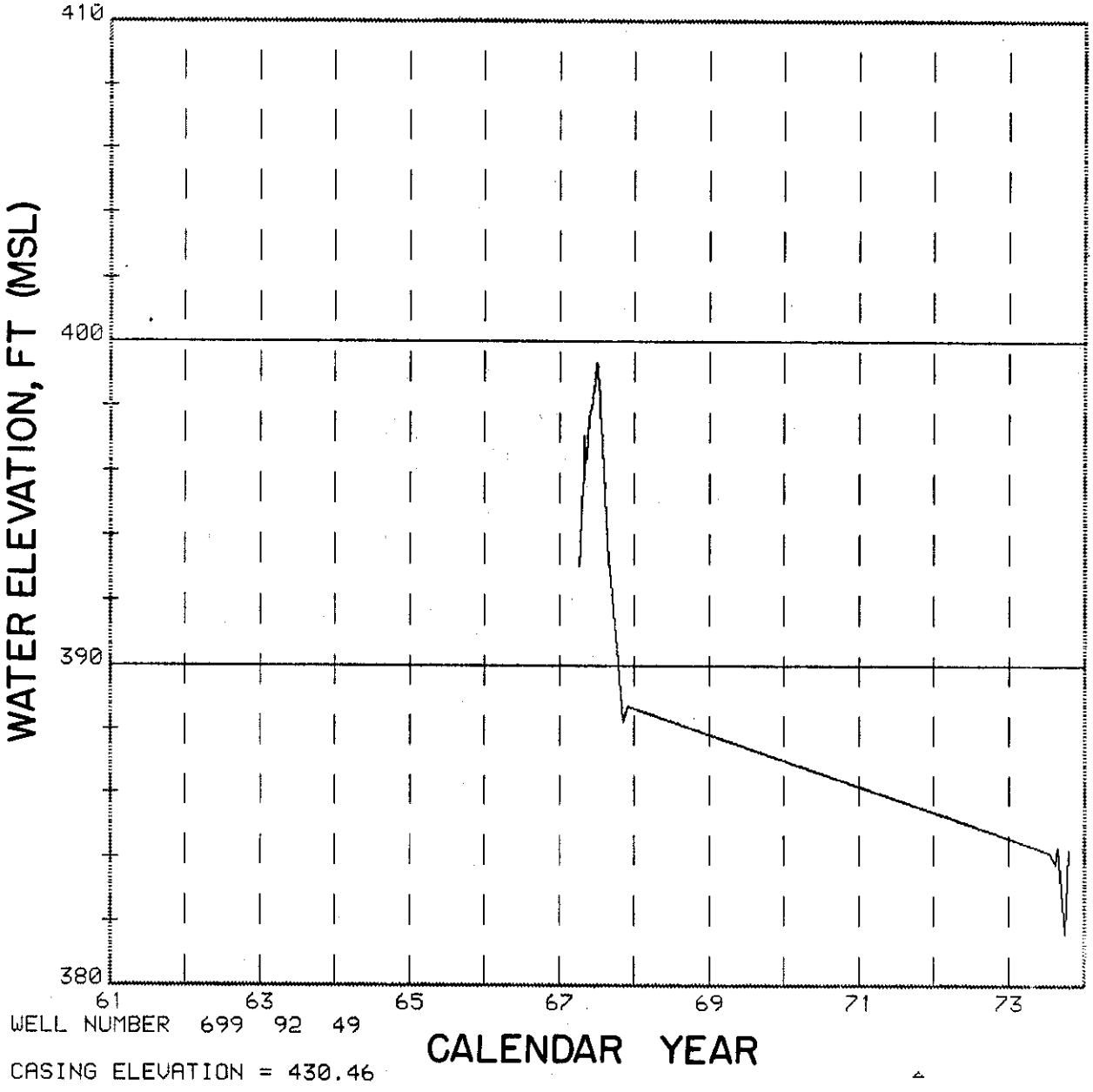
410
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380
WATER ELEVATION, FT (MSL)
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CALENDAR YEAR
WELL NUMBER 699 92 49
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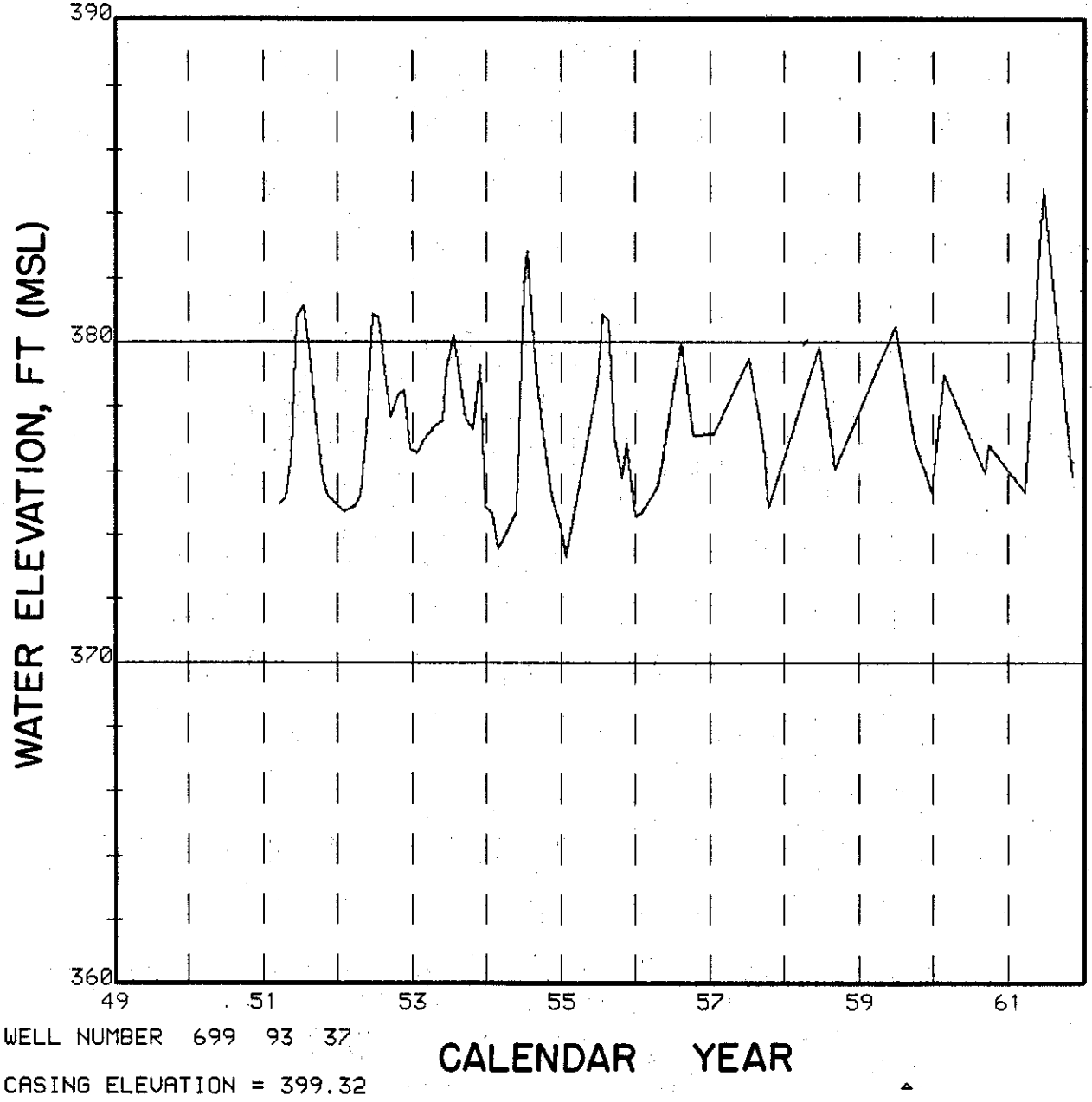

WELL NUMBER 699 93 37

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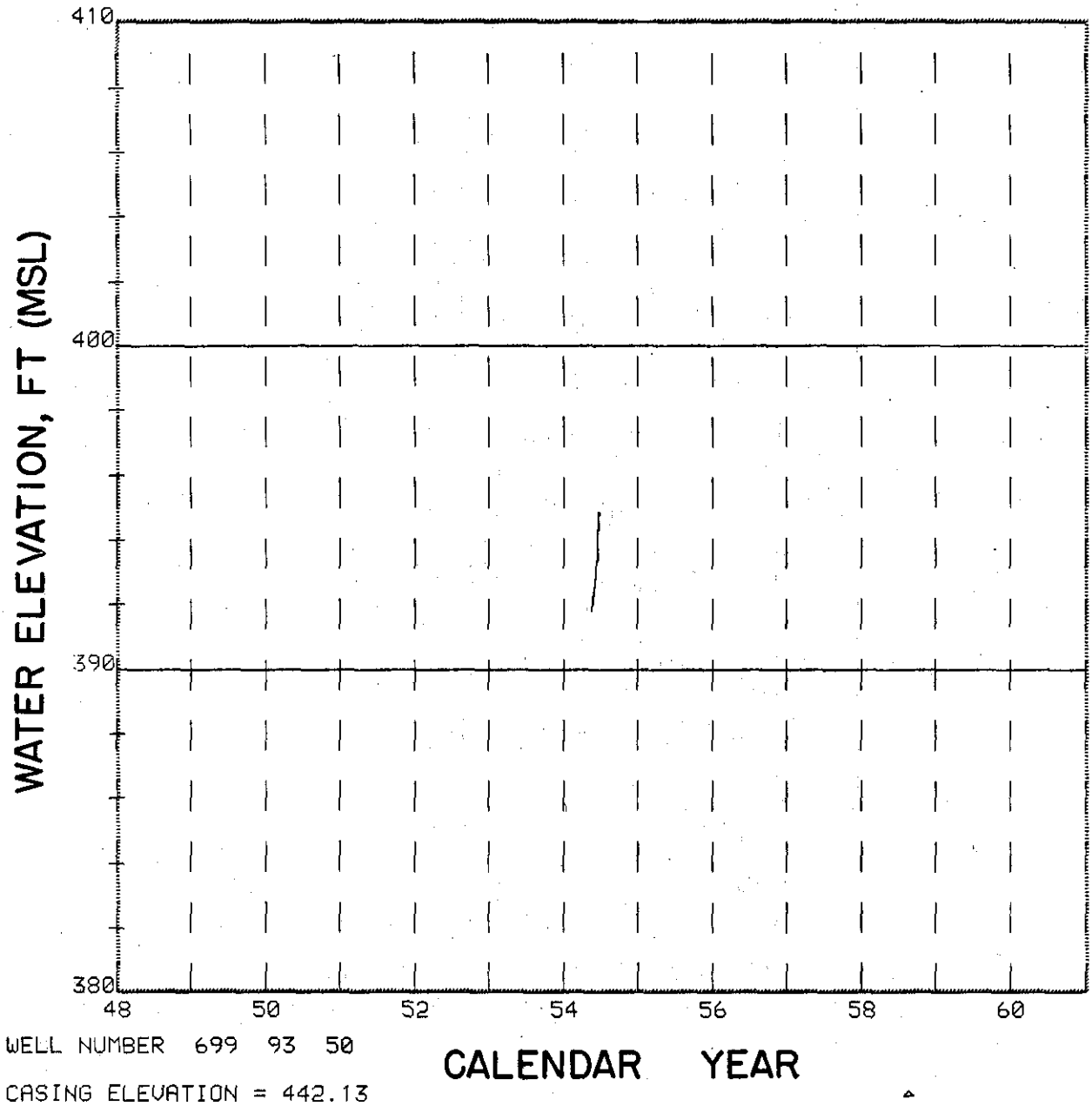

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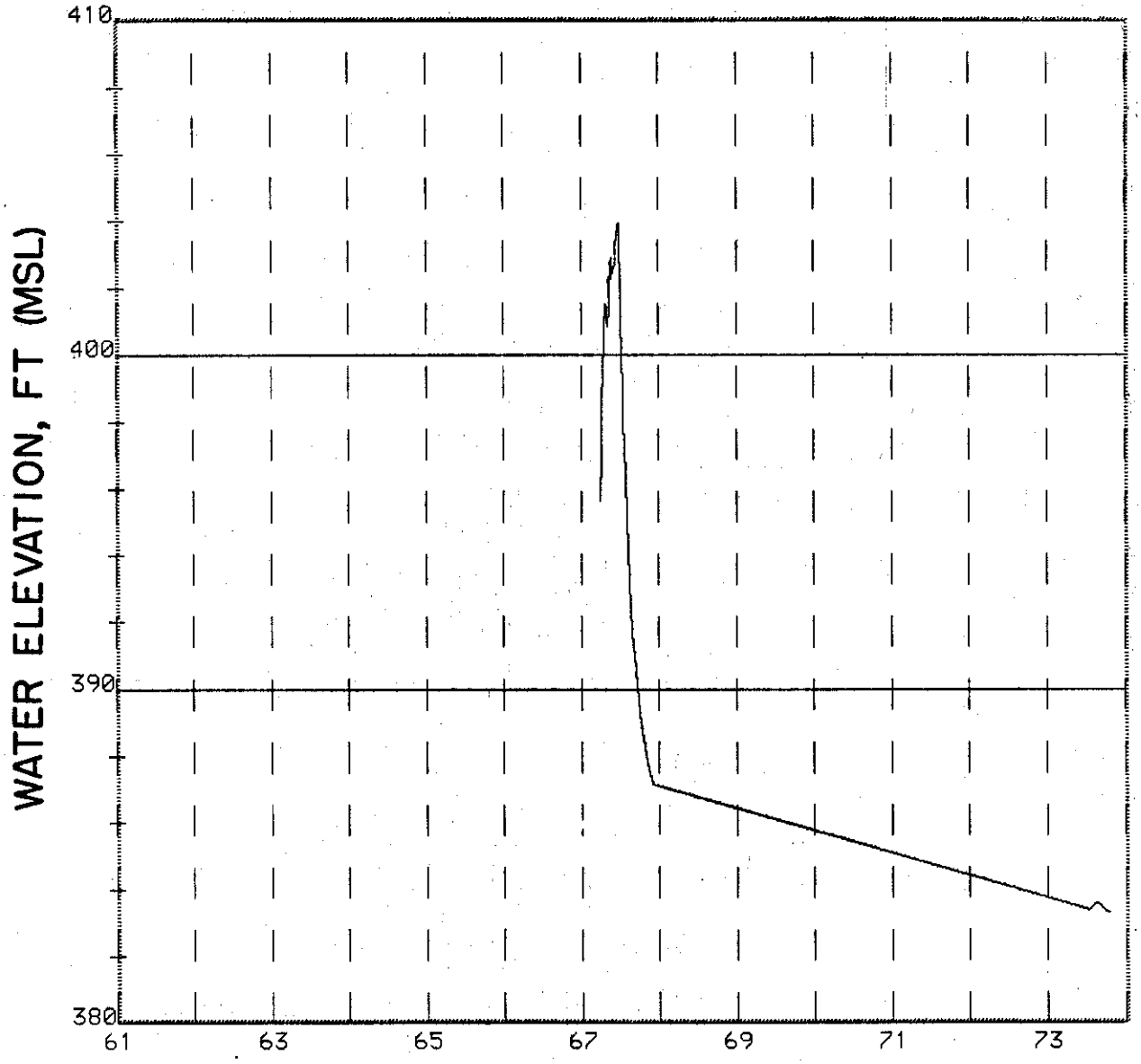

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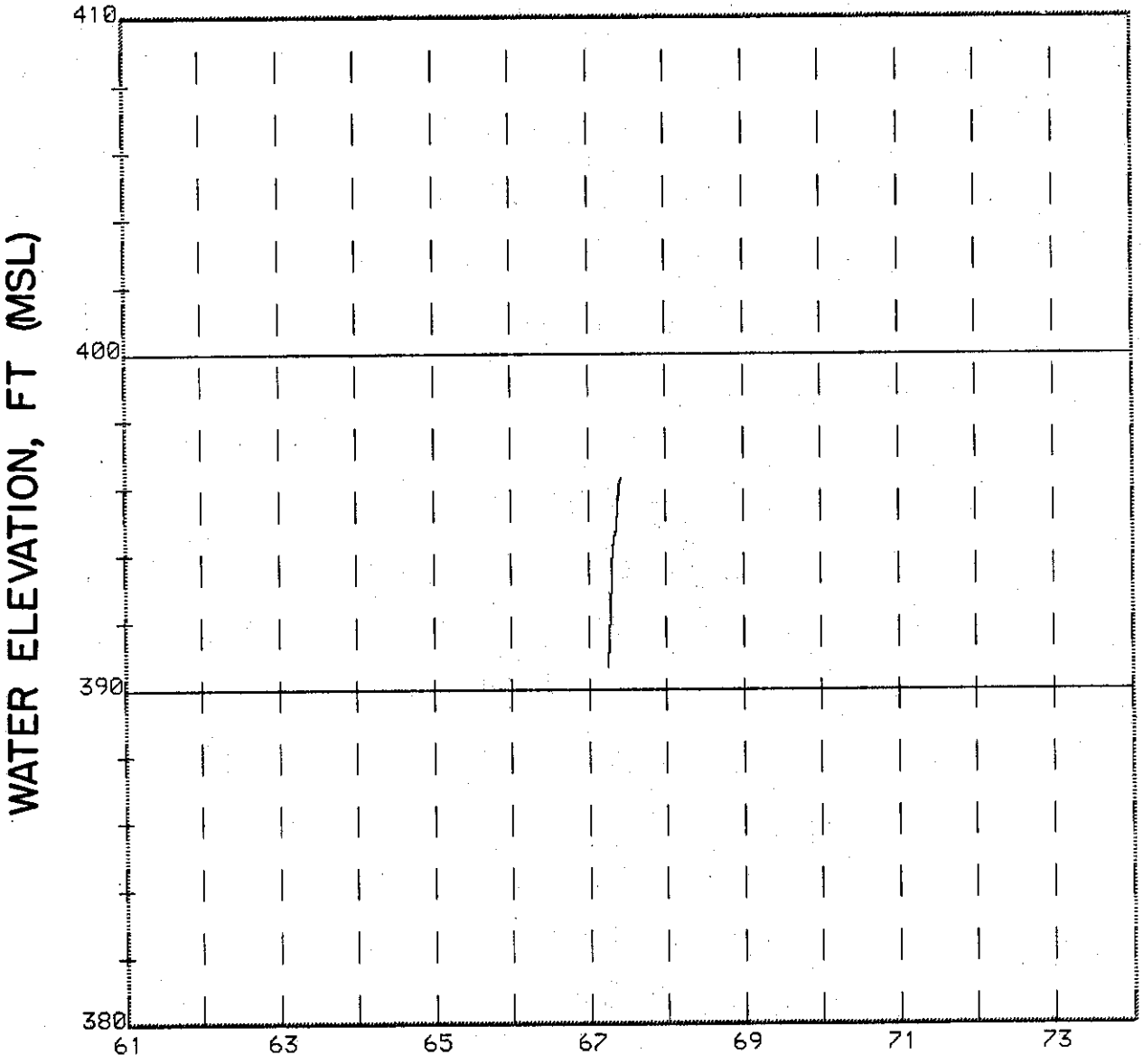

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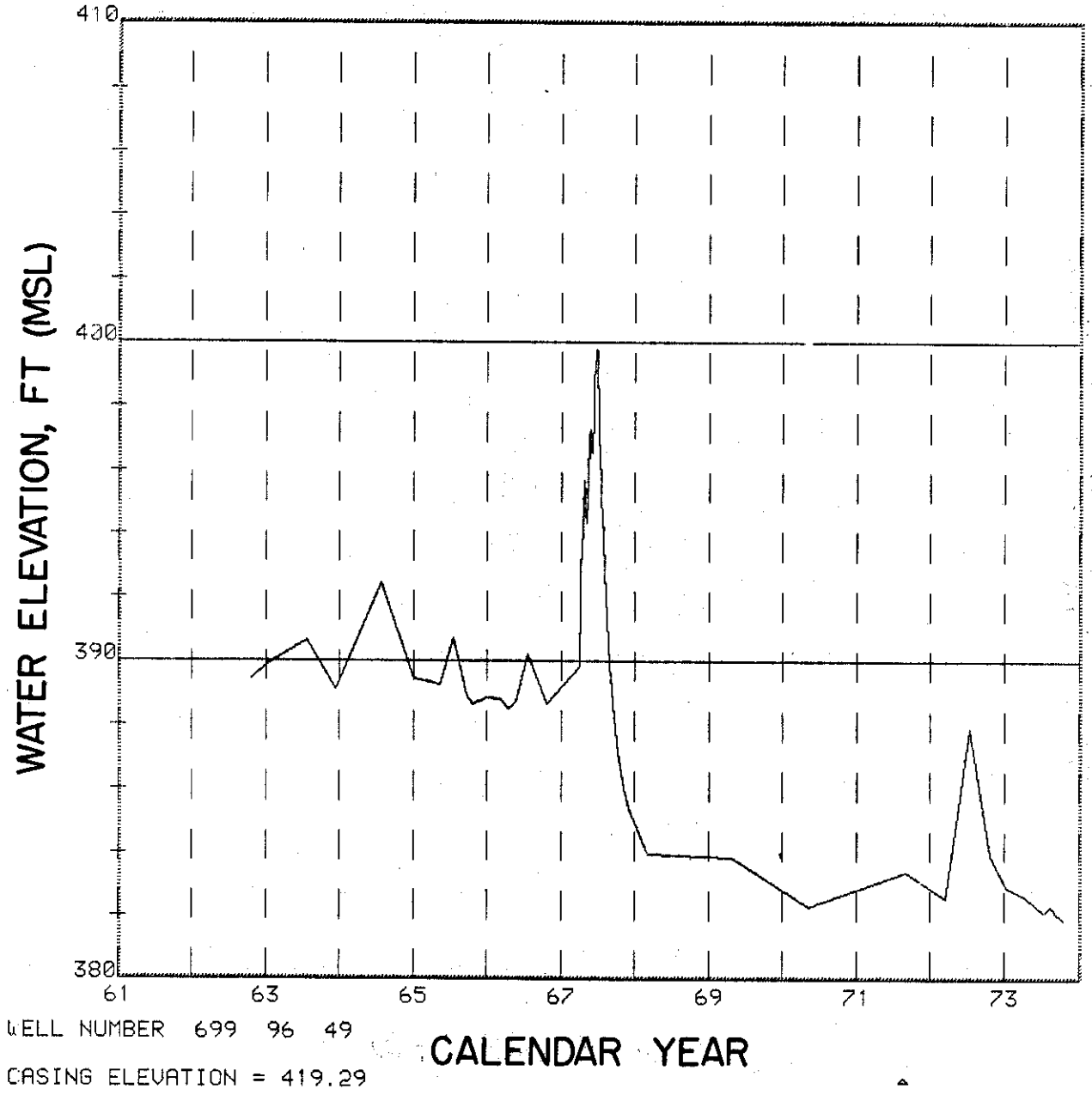

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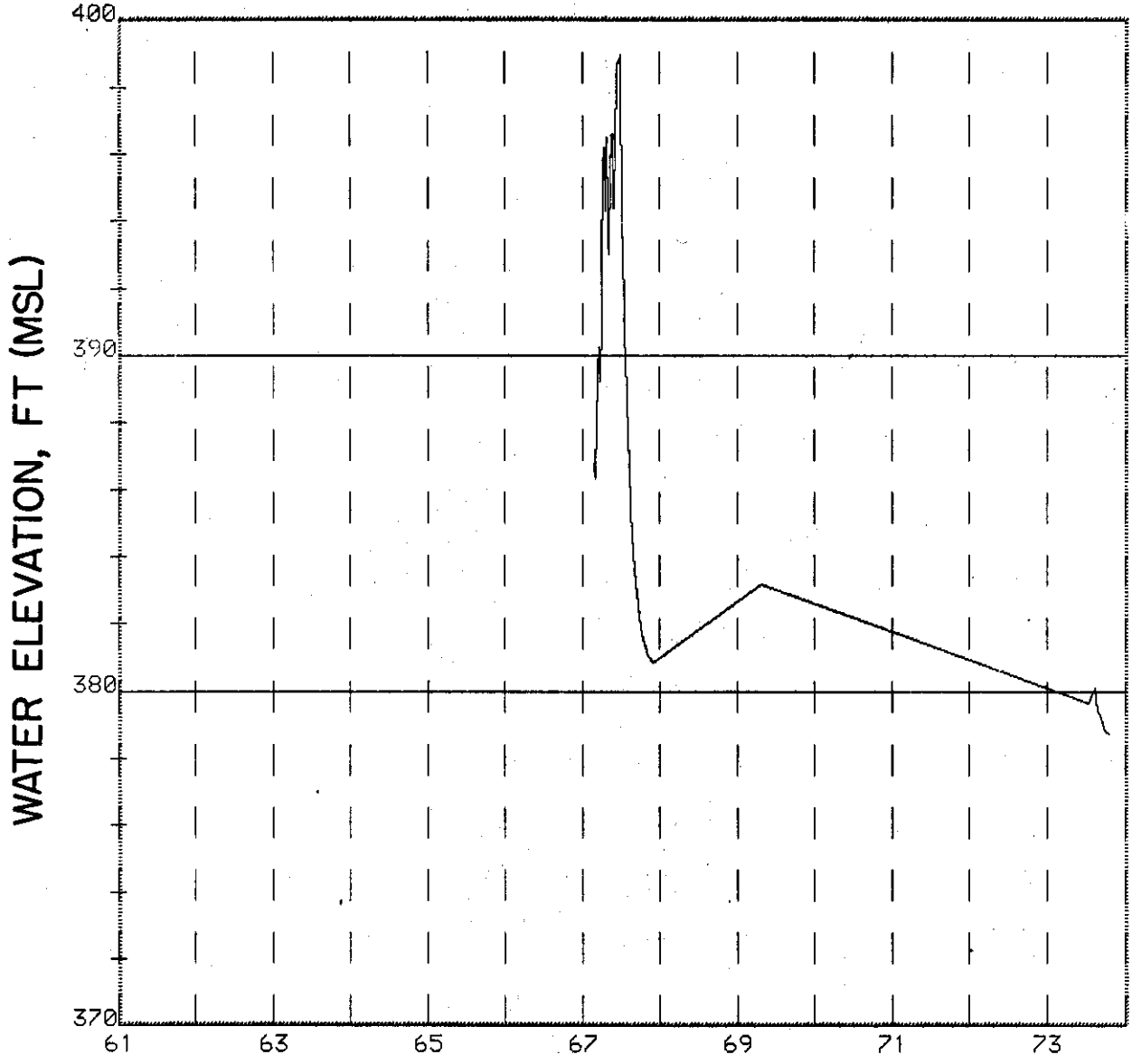

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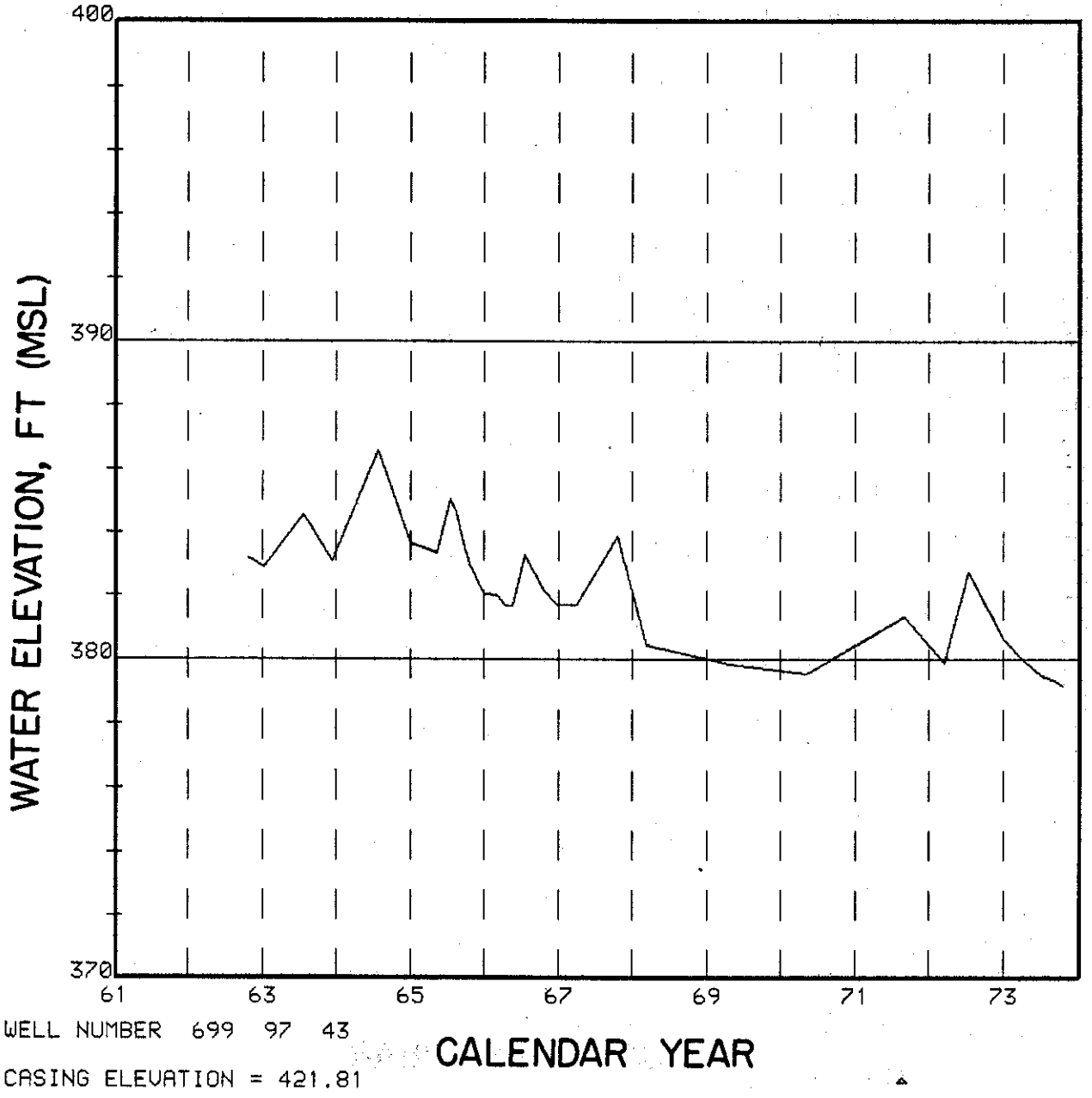

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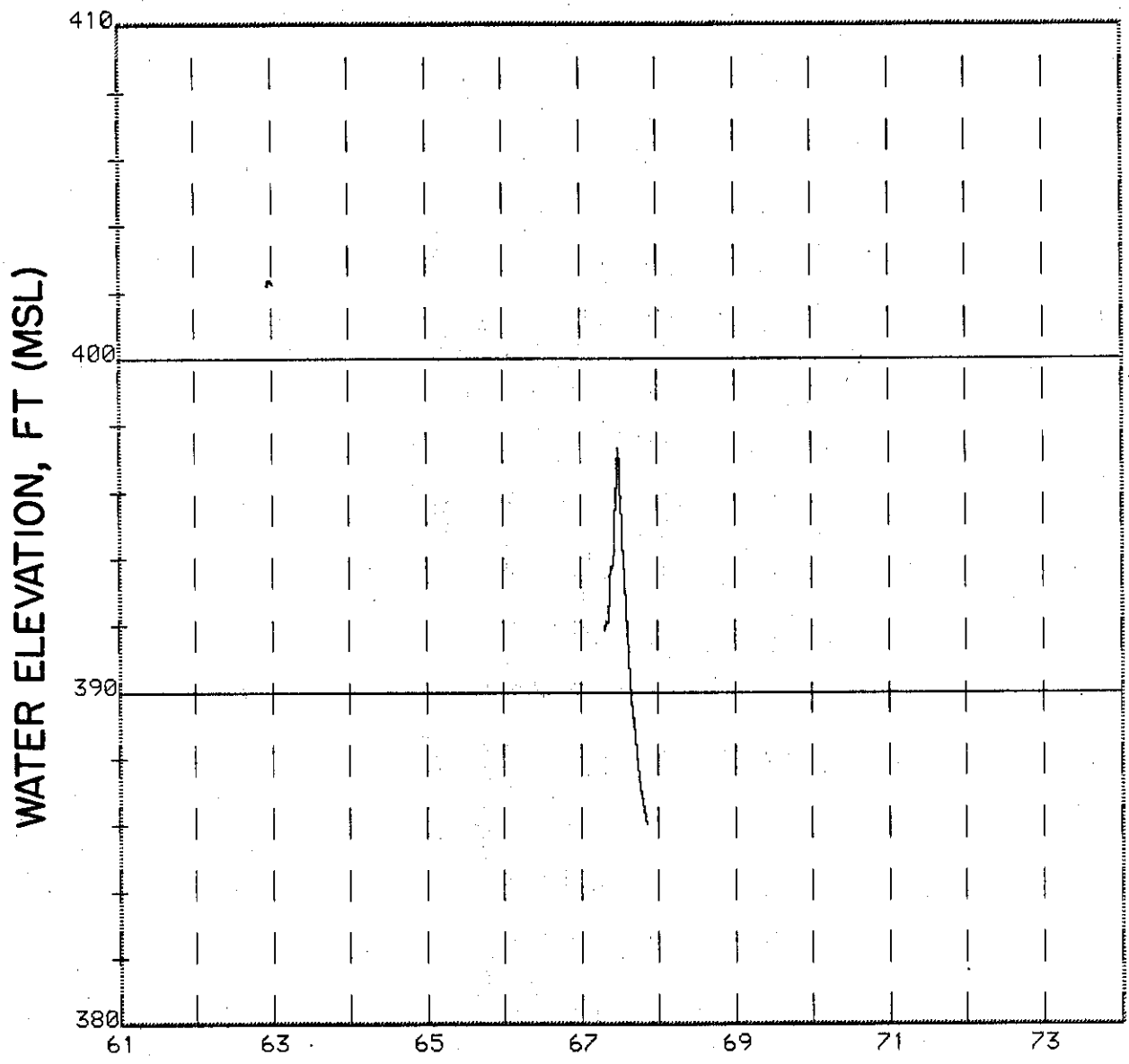

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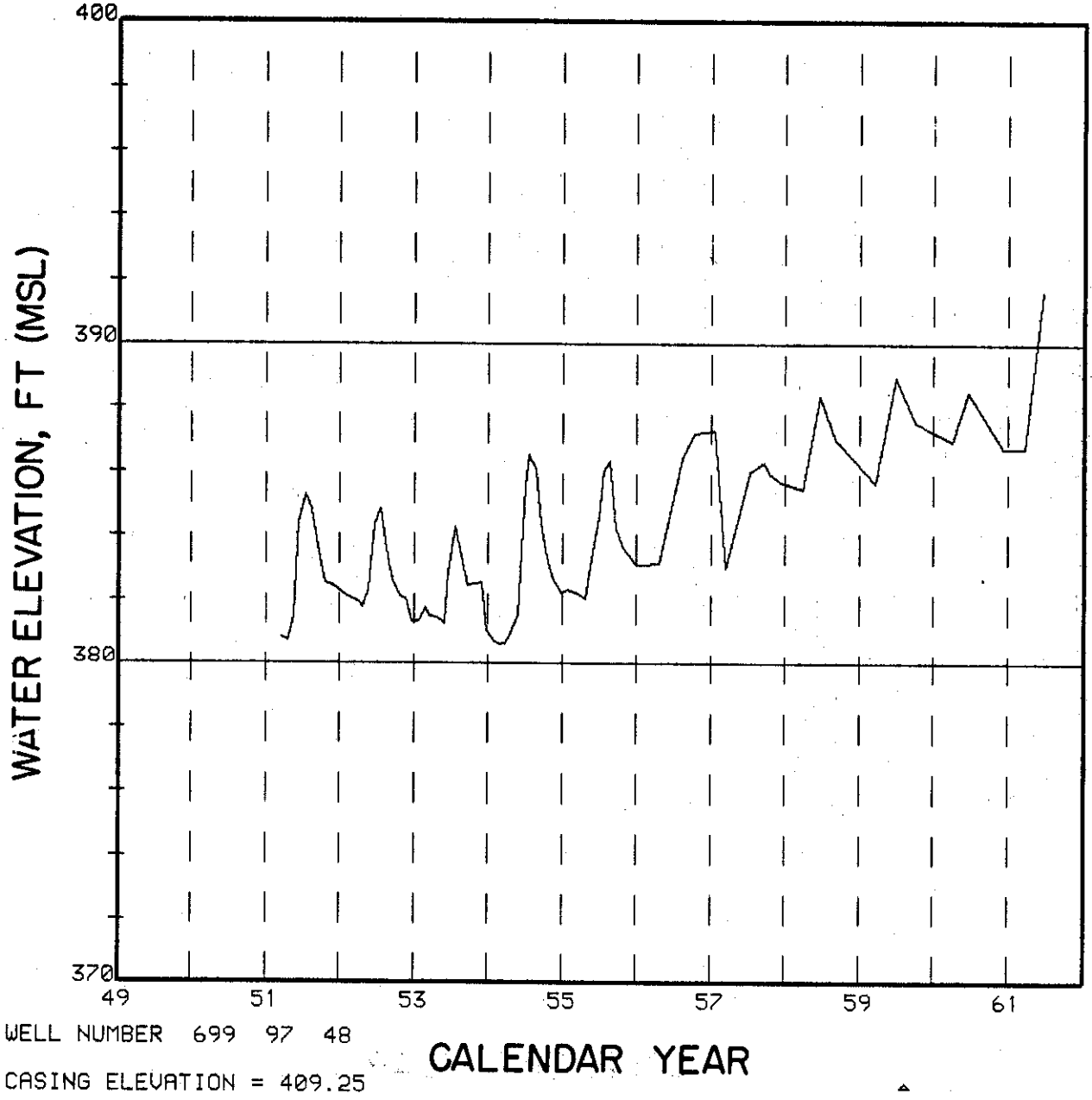

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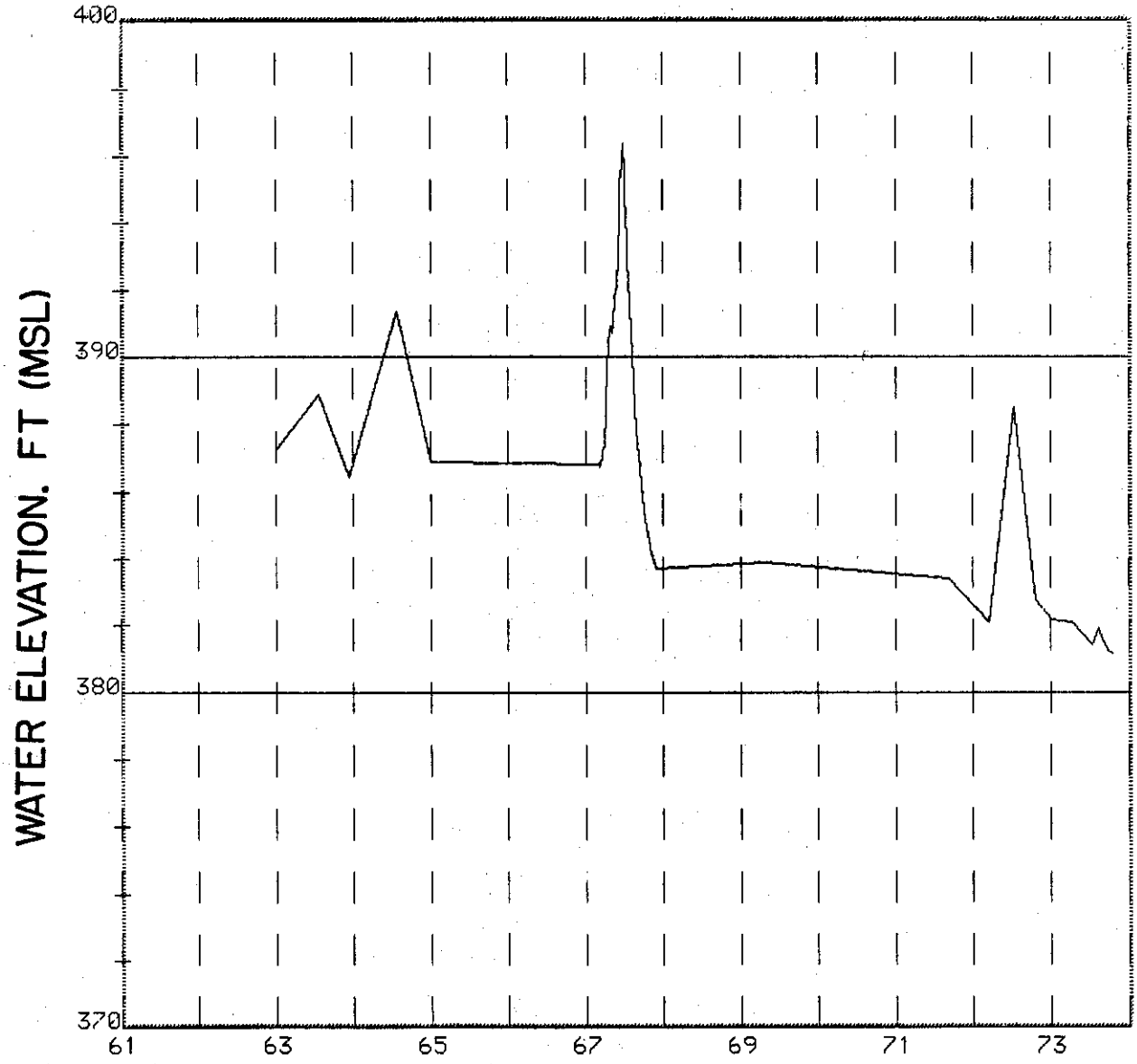

WELL NUMBER 699 97 51A

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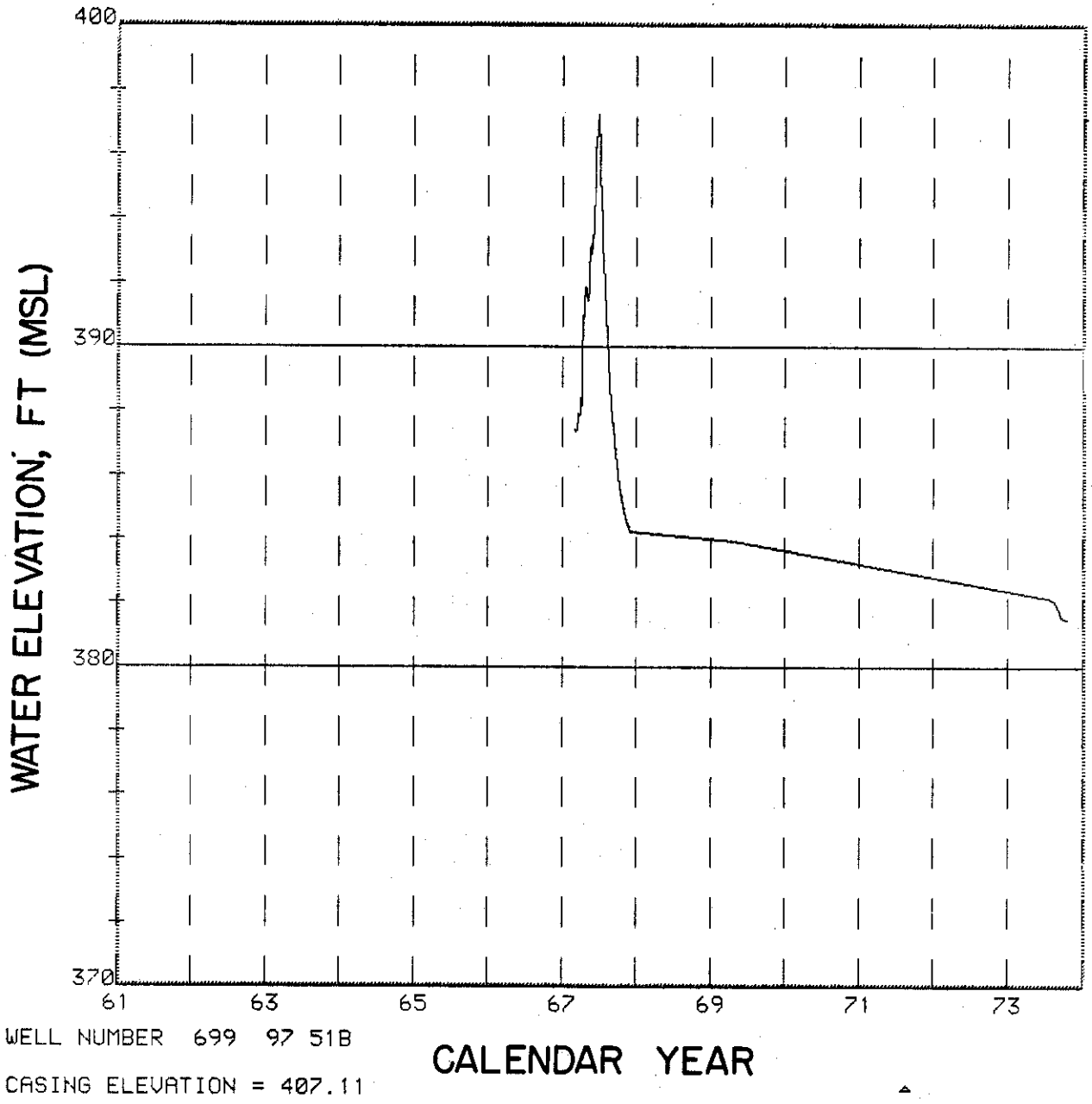

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CASING ELEVATION = 407.11

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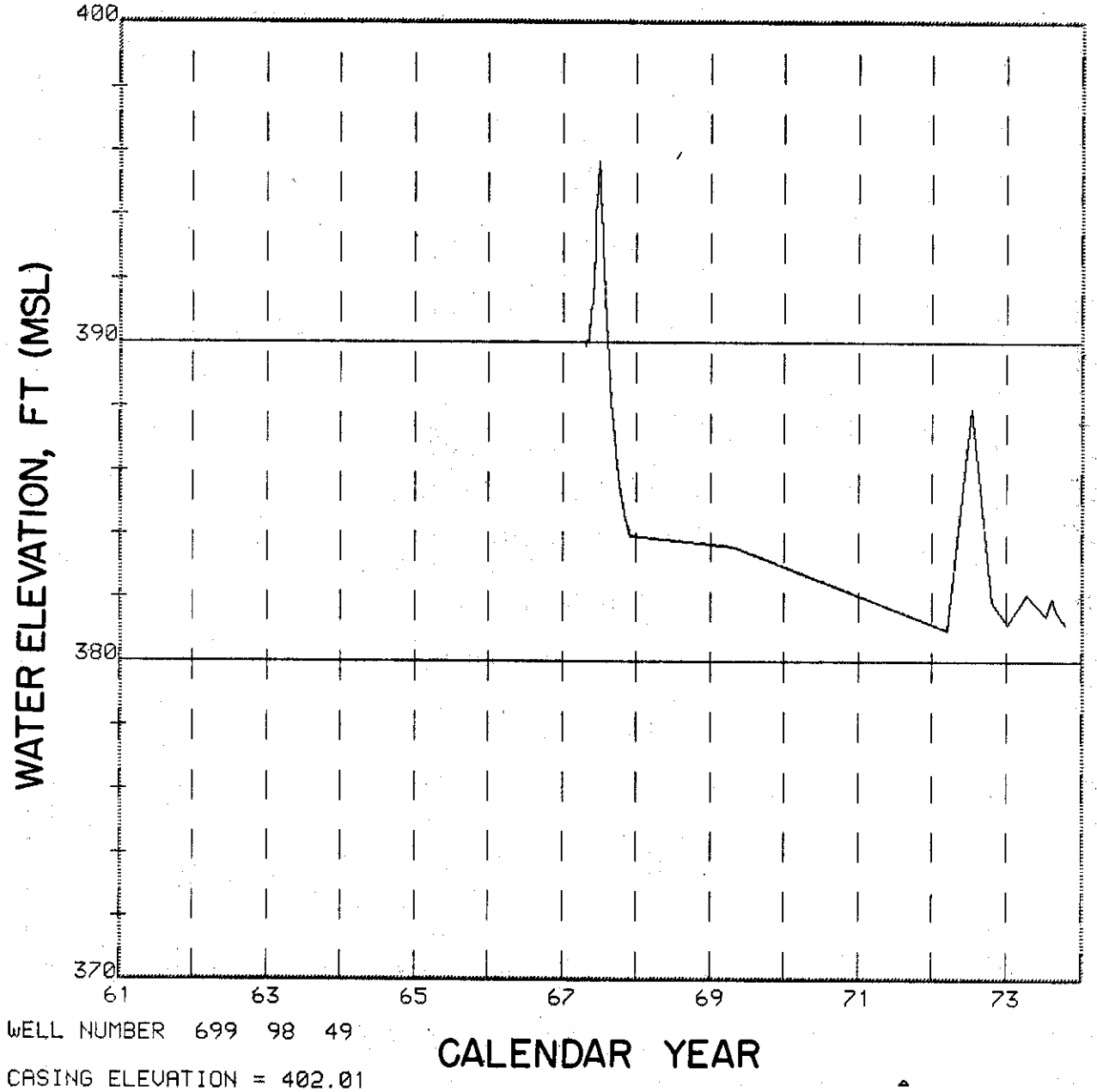

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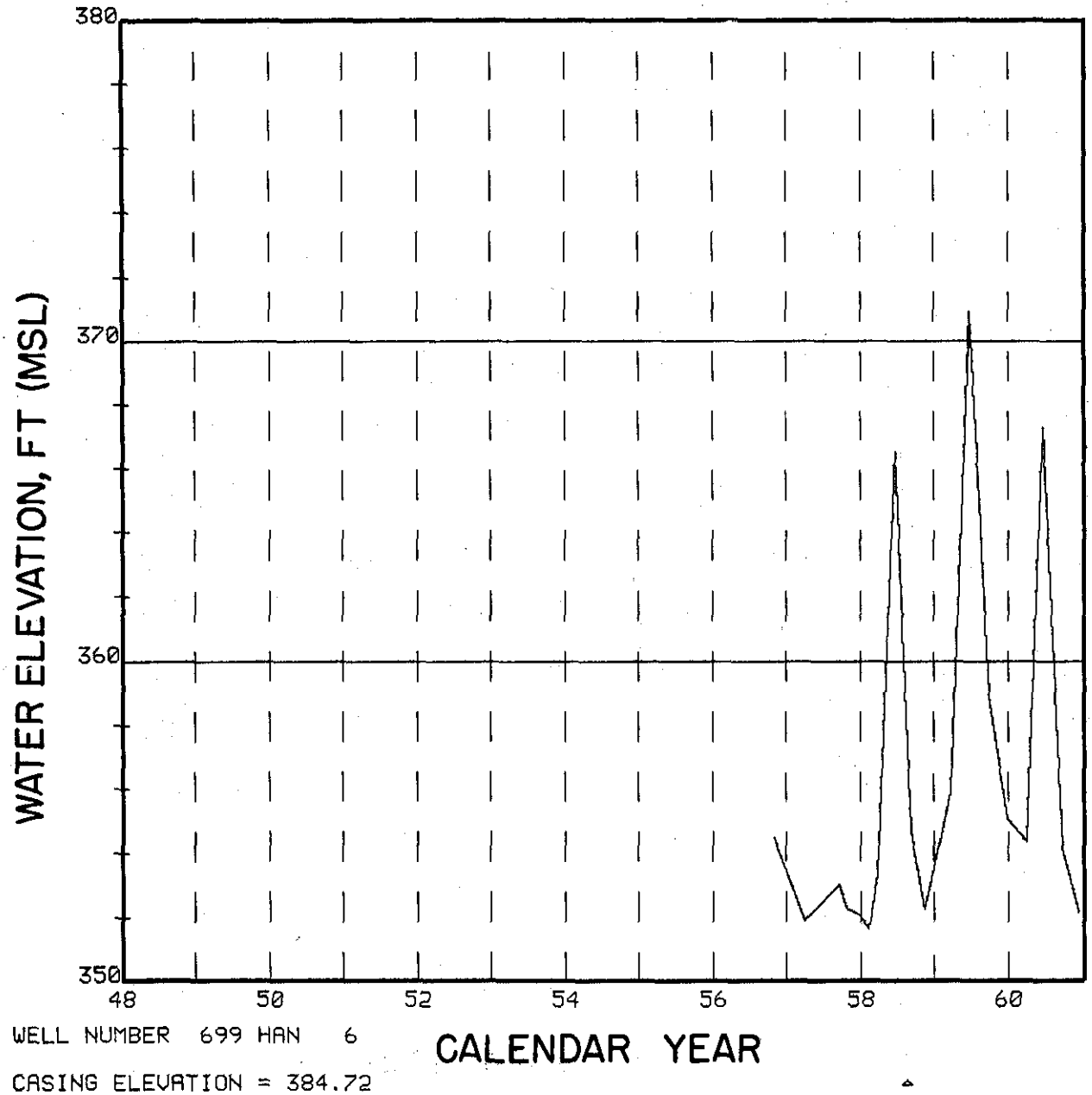
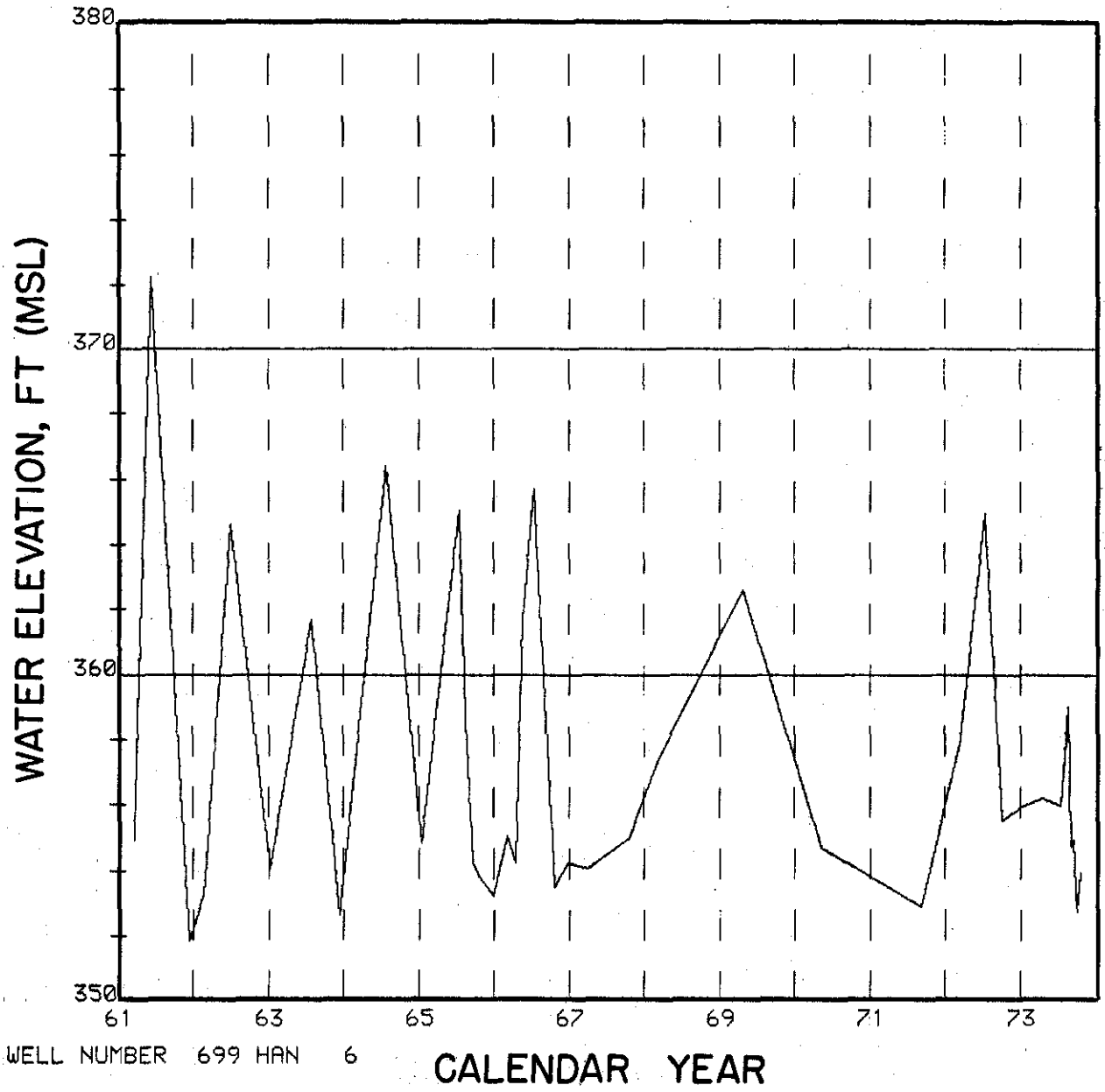


WELL NUMBER 699 HAN 6

CASING ELEVATION = 384.72



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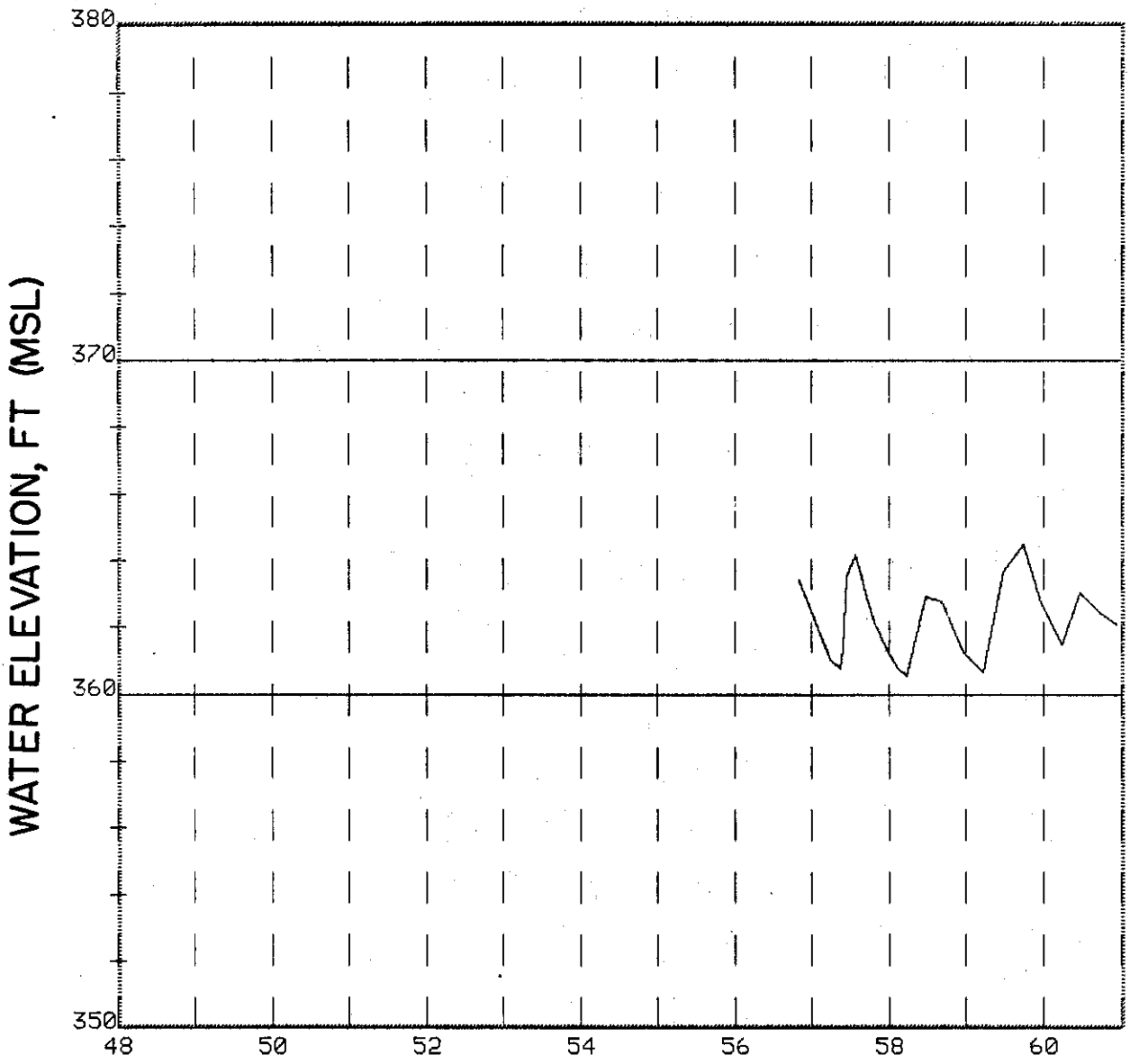

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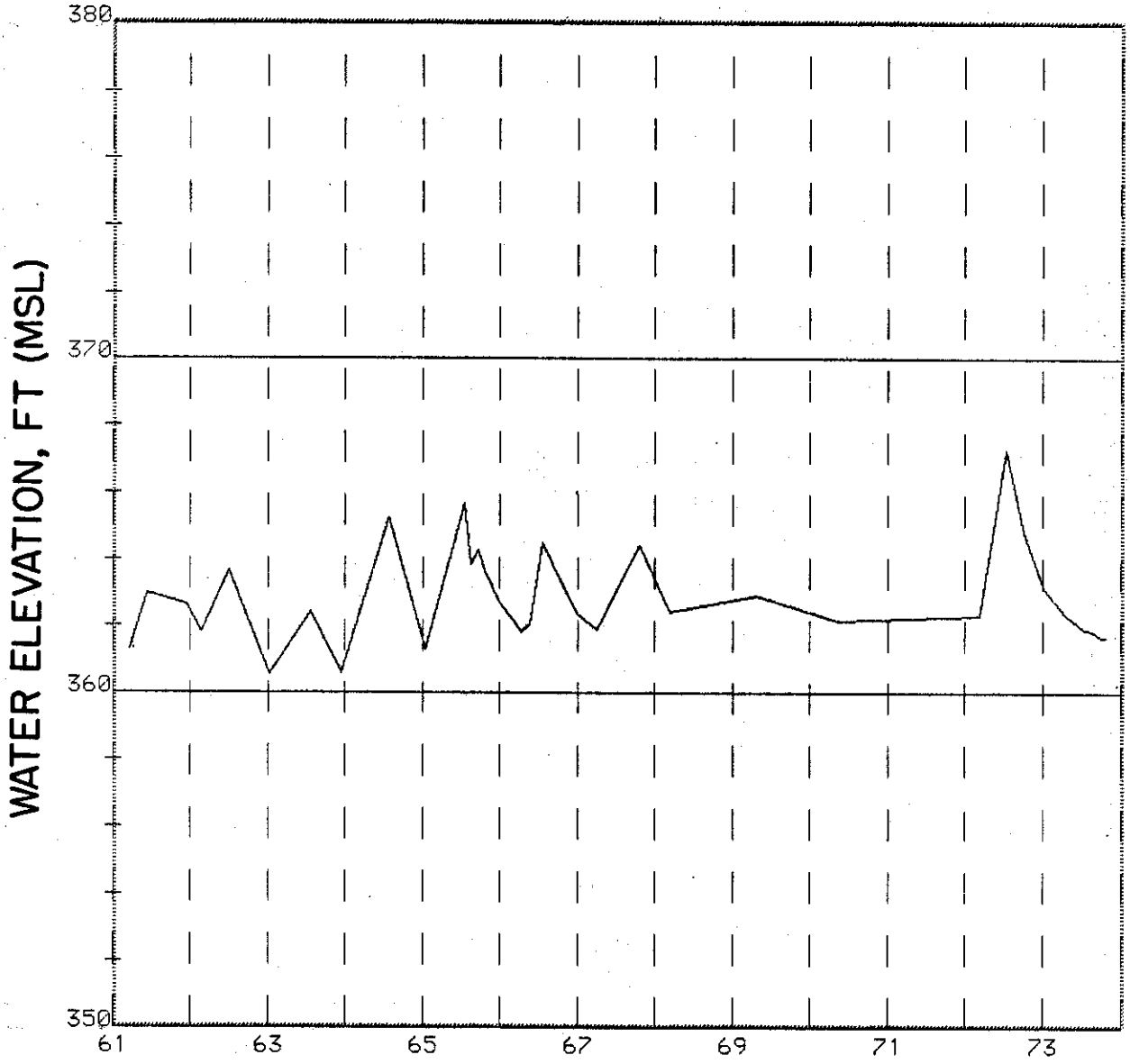

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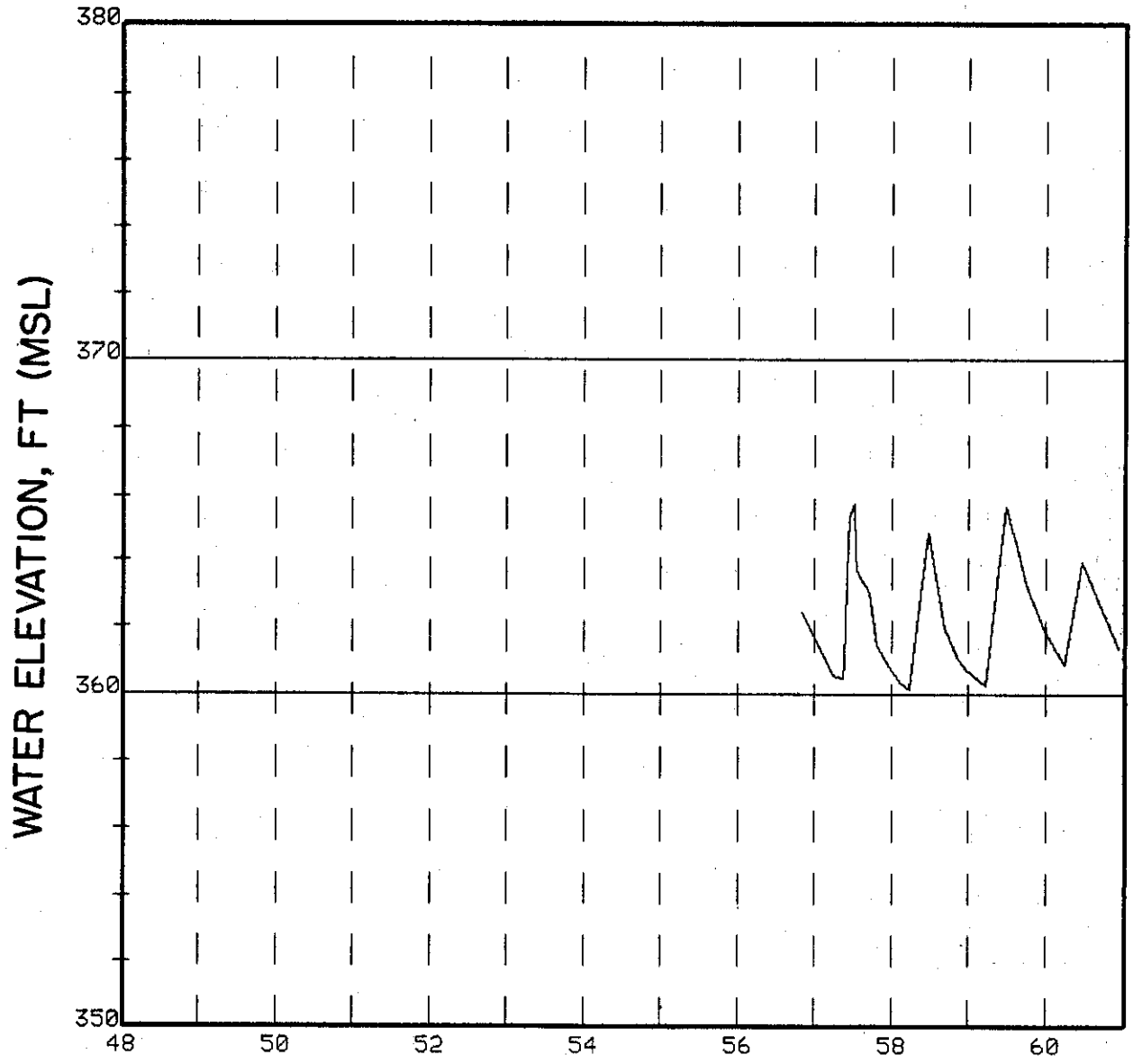

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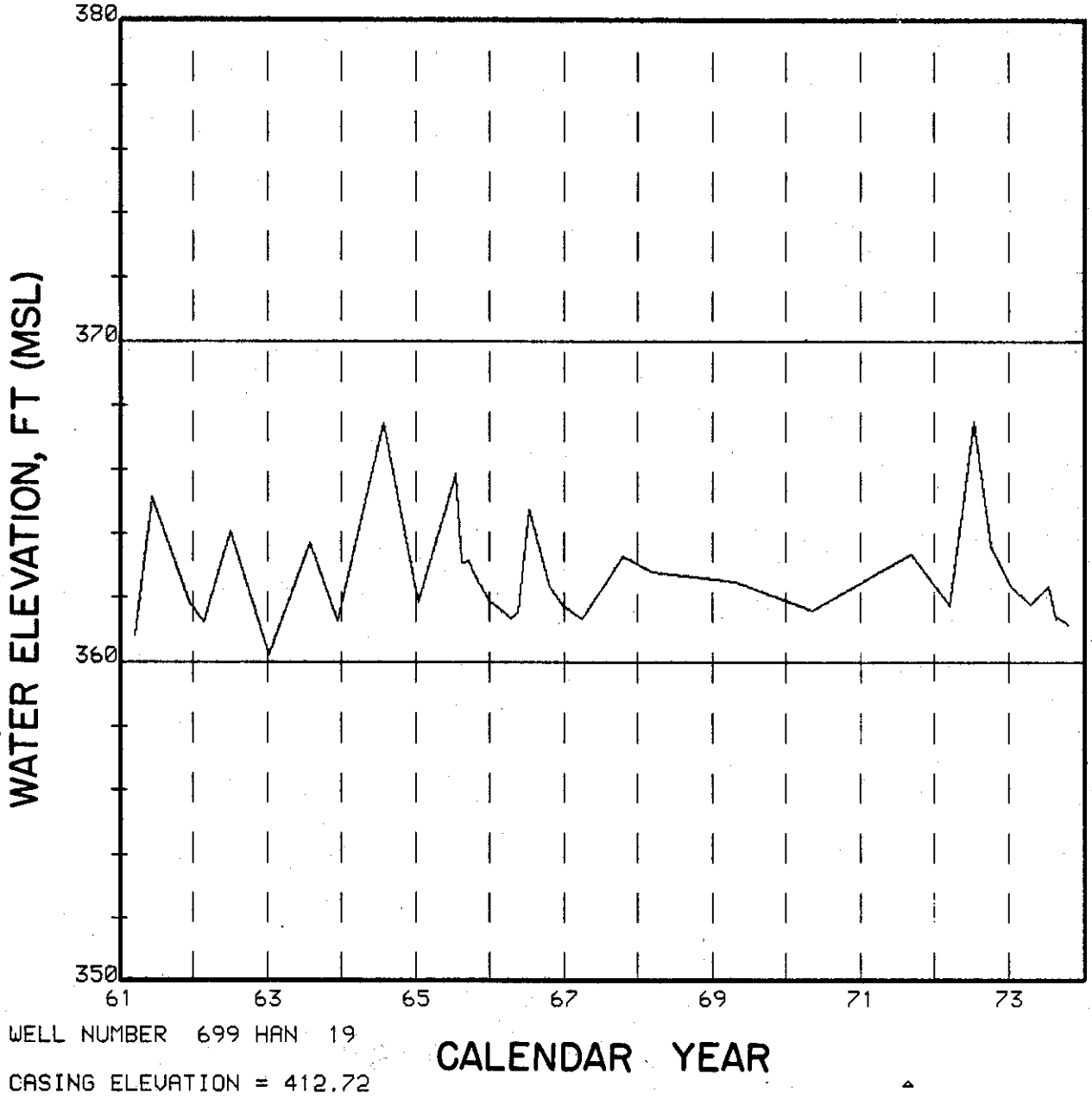

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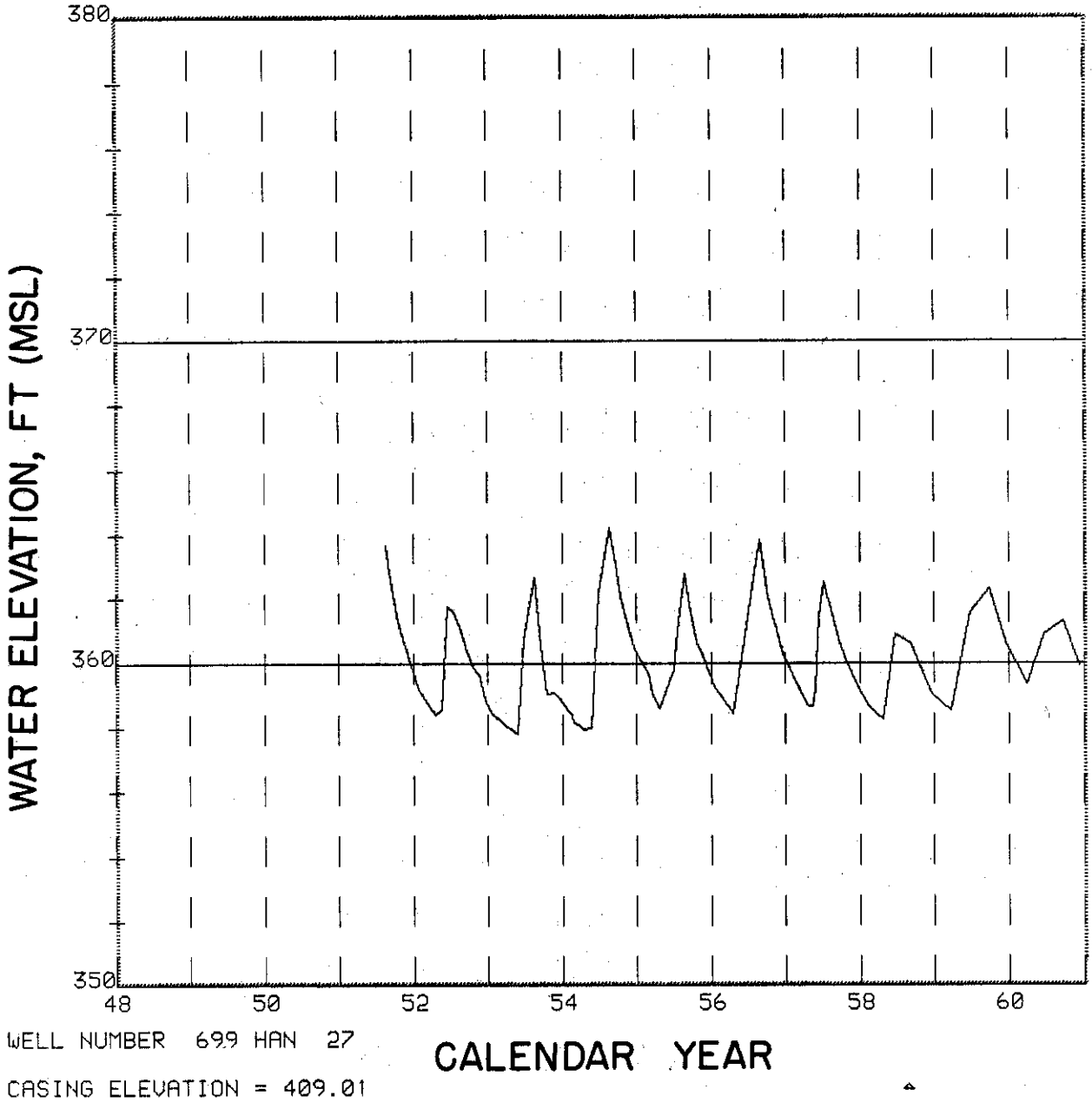

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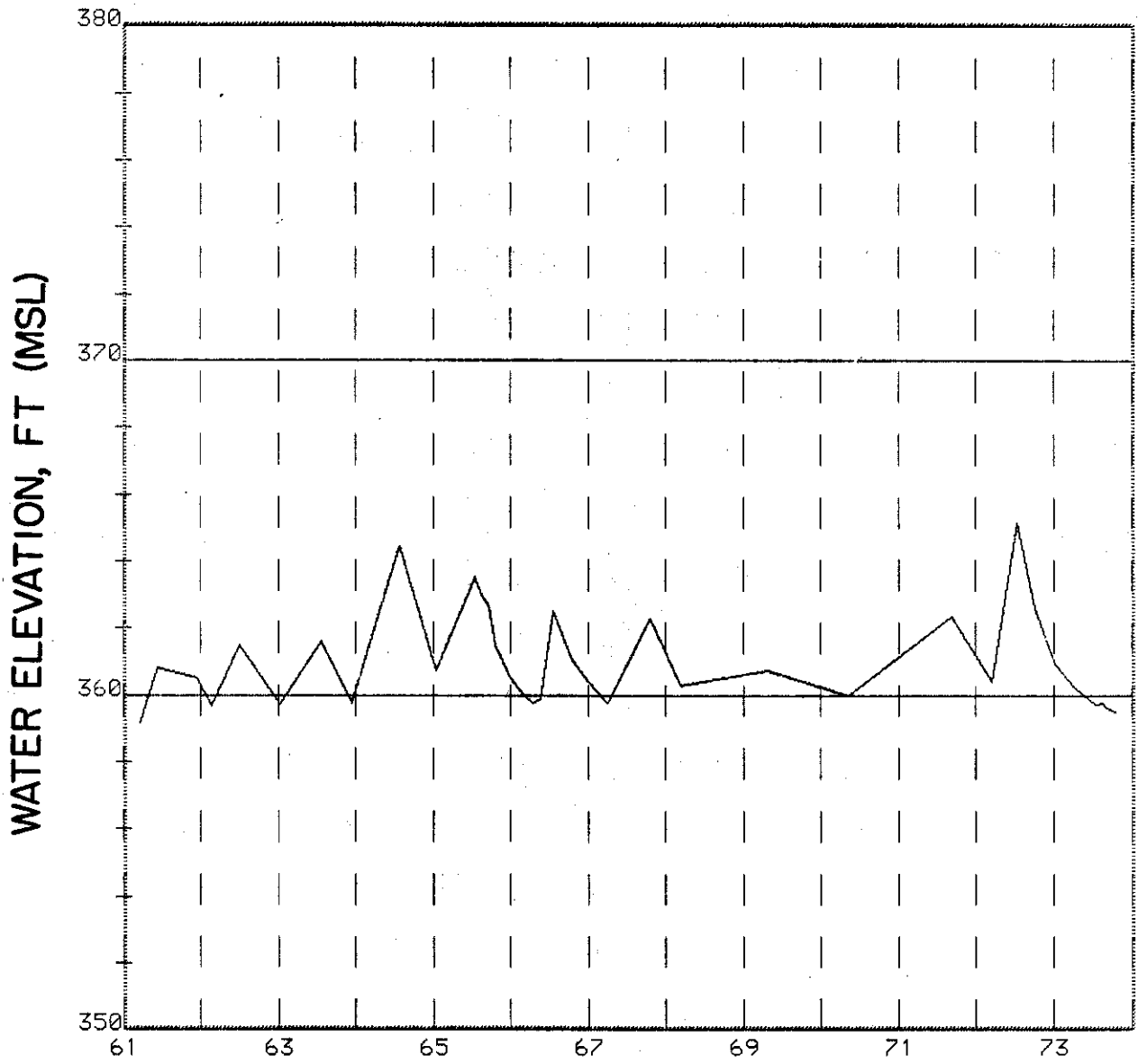

WELL NUMBER 699 HAN 27

CASING ELEVATION = 409.01

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