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## Groundwater Levels in Nebraska, 1973

M.J. Ellis

*University of Nebraska - Lincoln*

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# Groundwater Levels in Nebraska 1973

NEBRASKA WATER SURVEY PAPER

NUMBER 36

*Prepared in cooperation with U.S. Geological Survey*

University of Nebraska

Conservation and Survey Division

May 1974

NEBRASKA WATER SURVEY PAPER

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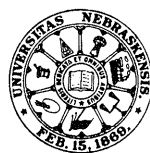
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GROUNDWATER LEVELS IN NEBRASKA  
1973

By  
M. J. ELLIS  
*U. S. Geological Survey*



PUBLISHED BY THE UNIVERSITY OF NEBRASKA  
CONSERVATION AND SURVEY DIVISION, LINCOLN

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Publication and price lists are furnished upon request.

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# GROUNDWATER LEVELS IN NEERASKA, 1973

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By M. J. Ellis  
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## INTRODUCTION

Water stored beneath the earth's surface for hundreds or perhaps thousands of years and virtually unused until modern times is now recognized as one of Nebraska's most valuable natural resources. The use of groundwater for irrigation and industrial purposes has stabalized the economy of large areas of the state. Although groundwater is a renewable resource, it is being withdrawn in large areas of the state at rates greater than rates of replenishment and significant declines in water levels have occurred. On the other hand, water levels have risen significantly in some areas of the state where surface water is used for irrigation.

Because groundwater is so important to the state's economy, the Conservation and Survey Divisicn of the University of Nebraska started in 1930 a cooperative observation-well program on a continuing basis with the U.S. Geological Survey to observe and document fluctuations of the water table.

The primary objective of any observation-well program is to monitor the fluctuations of the hydrostatic head in aquifers and to detect significant changes in water levels in wells. To be effective, an observation-well program must include not only the collection of data but also the storage, retrieval, and dissemination of the collected data. The program should also include some means for anticipating probable future data needs. An especially important consideration in an observation-well program is ensuring that potential users know what data are available and that the data are available in a usable format when needed.

Among the important uses of data on groundwater levels in Nebraska are the following:

1. To indicate the status of groundwater in storage and the availability of supplies.
2. To show changes in groundwater storage caused by changes in distribution or rates of regional withdrawals which, in turn, suggest the water-supply outlook for the future.
3. To identify areas in which groundwater levels are rising to, or close to, land surface (waterlogging) or are declining toward limits of economical utilization.
4. To provide long-term records for basin or watershed studies and to provide a basis for evaluating the effectiveness of land-management and water-conservation programs.
5. To provide long-term records by means of which shorter records from project studies may be correlated and evaluated and



the validity of project findings may be assessed at a later time.

6. To provide basic data needed to estimate or to determine other hydrologic parameters such as: rate and direction of groundwater movement, water loss by evapotranspiration, specific yield of aquifers, base flow of streams, sources and amounts of recharge, and locations and amounts of discharge.

7. To supply long-term records needed for model studies and to provide means of assessing the validity of model projections.

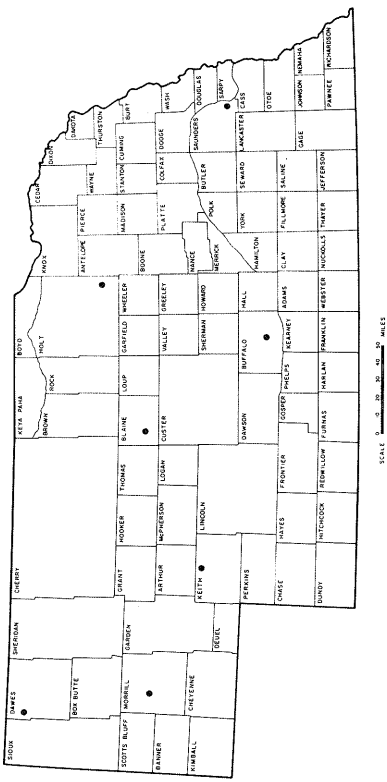
The observation-well program in Nebraska consists of an amalgamation of a number of observation-well networks, all of which have as their purpose the monitoring of groundwater levels, with each having been designed for slightly different objectives. Coordination of data-collection efforts for these networks and the storage, retrieval, and dissemination of the data are provided by the U.S. Geological Survey and the Conservation and Survey Division of the University of Nebraska as part of their cooperative program.

Basically five types of networks exist in Nebraska: the statewide observation-well network, the federal "key well" network, project-oriented observation-well networks, local-interest observation-well networks, and the recorder-well network. All these networks are interrelated and all available data are commonly used in any evaluation of groundwater conditions. It should be noted that most of the continuity for the overall program is provided by the statewide observation-well network. Wells in this network are often used as a basis for

establishing project and local-interest networks. Conversely, when local or project networks are discontinued, selected wells from them are incorporated into the statewide network. Each of the five types of networks is described below.

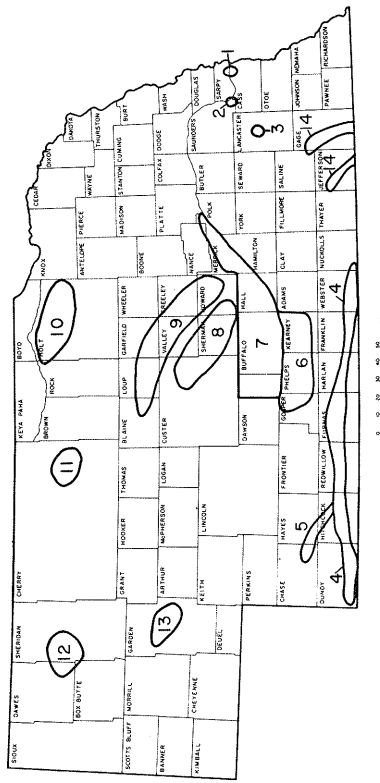
The statewide observation-well network provides long-term general data on changes in the amount of groundwater in storage and a means of detecting areas where changes in water levels indicate that problems may occur. This network was started in 1930, and many of the wells in the network have been measured since the early 1930s. The network is designed to give an overall appraisal of the state's groundwater situation, not detailed information for any specific area. The density of wells in the network is not uniform, ranging from only one or two wells per county where there is little or no groundwater development to ten or more wells in counties where intensive development of groundwater has occurred. Most of the wells in the network are measured only in the fall, but some are measured in both spring and fall. This network is operated and financed as part of the cooperative groundwater-investigations program of the U.S. Geological Survey and the Conservation and Survey Division.

The federal "key well" network (fig. 1a) provides the basic information needed to assess changes in groundwater levels on a national basis. All wells in this network have been measured

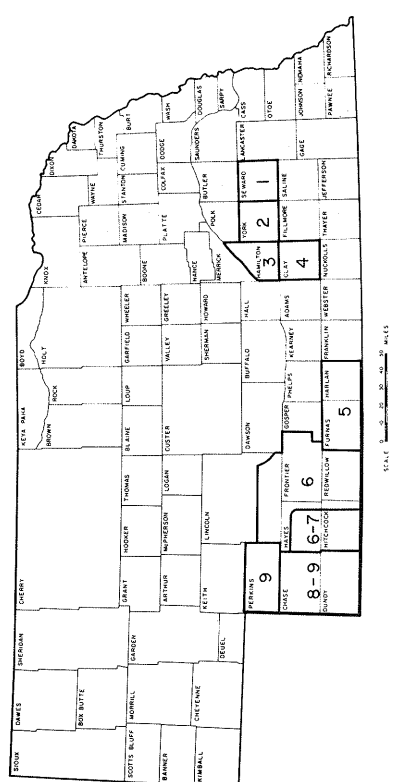


• Observation well

A. Observation wells in federal "key well" network

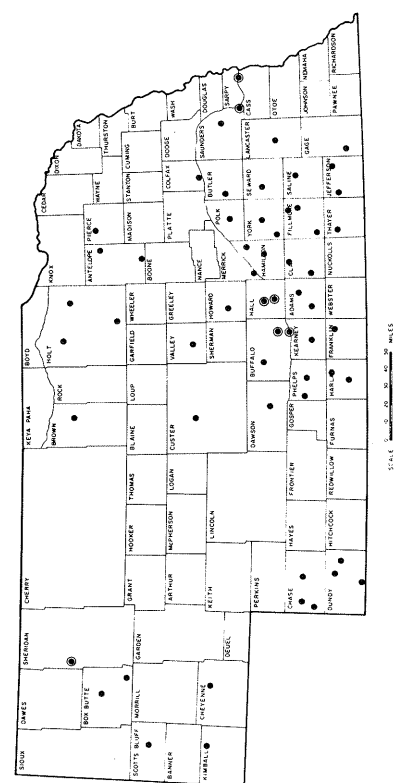


1. City of Omaha well field  
 2. City of Lincoln well field  
 3. Conservation and Survey Division, investigation of the hydrogeology of sanitary landfills  
 4. Republican River Interstate River Compact Administration  
 5. Enders Dam and Frenchman Creek Irrigation District  
 6. Central Nebraska Public Power and Irrigation District  
 7. Mid-State project  
 8. Farwell project  
 9. North Loup project  
 10. O'Neill project  
 11. Valentine National Wildlife Refuge  
 12. Mirage Flats project  
 13. Crescent Lake Wildlife Refuge  
 14. Blue River Interstate River Compact Administration



1. Seward County Ground Water Conservation District  
 2. York County Ground Water Conservation District  
 3. Hamilton County Ground Water Conservation District  
 4. Clay County Ground Water Conservation District  
 5. South-Central Nebraska Pump Irrigators Association  
 6. Mid-Republican Natural Resources District  
 7. Southwest Nebraska Pump Irrigators Association  
 8. Southwest Nebraska Ground Water Conservation District  
 9. Upper Republican Natural Resources District

C. Locally sponsored observation-well networks



• Well operated as part of the statewide observation-well network  
 ● Well operated as part of project-oriented observation-well network

D. Observation wells equipped with automatic recorders

Figure 1.--Maps of Nebraska showing: (a) observation wells in the federal "key well" network; (b) project-oriented observation-well networks; (c) locally sponsored observation-well networks; and (d) observation wells equipped with automatic recorders.

monthly for more than 30 years and one for more than 40 years. Data from these wells are used in the preparation of a published monthly summary of national surface and groundwater conditions called "Water Resources Review." this network is operated and financed by the U.S. Geological Survey.

Project-oriented observation-well networks (fig. 1b) are designed to provide comprehensive data for limited areas. The frequency of water-level measurements and the length of record vary with the objectives of individual projects. There are three principal types of project-oriented observation-well networks:

1. Networks to provide data needed for detailed hydrogeologic investigations.
2. Networks needed to provide data related to water-resources development projects such as dams, irrigation systems, wildlife areas, and municipal well fields. The water-level data for these projects may be collected for preliminary planning, for detailed planning and construction, and for monitoring the long-term effects of the projects after construction or development.
3. Networks to provide data needed for administration of interstate river compacts. The data may be needed for either monitoring of long-term trends in groundwater levels or for evaluation of specific hydrologic conditions.

Funding and operation of these networks is as variable as the objectives of the various projects involved. Almost all of the networks for detailed hydrogeologic investigations are financed and operated by the Conservation and Survey Division solely or cooperatively with the U.S. Geological Survey. Most networks related to water-resources development projects in Nebraska are federally financed and operated by the U.S. Geological Survey for the Bureau of Reclamation, but some local agencies such as the Central Nebraska Public Power and Irrigation District, the Omaha Metropolitan Utilities District, the City of Lincoln Water Department, and the U.S. Bureau of Sports Fisheries and Wildlife at the Valentine and Crescent Lake Wildlife Refuges finance and operate networks related to water-resources development. Networks for interstate river compact investigations may be financed either with federal funds or cooperatively by the U.S. Geological Survey and an interstate river compact administration, with the operation of the network in either case by the U.S. Geological Survey.

Local-interest observation-well networks (fig. 1c) have been established in response to local interest and awareness of potential groundwater problems. The objectives of these monitoring programs are very similar to those of the statewide observation well network. However, the density of observation wells is generally much greater than in the statewide network and the additional data make possible a better evaluation of groundwater conditions in the local-interest area. Water levels

usually are measured in the spring and fall. These networks may be financed and operated entirely by a local government, agency, or association (such as a natural-resources district, groundwater-conservation district, or irrigation association); or they may be financed jointly by the local government or agency and the U.S. Geological Survey and operated by the U.S. Geological Survey.

The recorder-well network (fig. 1d) differs from the other networks in that each of the selected wells is equipped with a recording gauge to obtain a detailed continuous record of water-level fluctuations. Most of the funds for operation of this network are derived from those for the statewide network, but some are derived from those for various project observation-well networks.

An observation-well network is not static. Wells are inadvertently destroyed or are dropped from a network for some reason, and new wells are added either to replace destroyed wells or to provide information in new areas. In 1973 a total of 21 wells were destroyed and measurements in 26 wells in a project network were stopped. Seven of the destroyed wells have been replaced and 27 more wells destroyed since 1970 are scheduled for replacement. Eight new wells, including one equipped with a recorder, were added to the statewide network and records for approximately 150 more local-interest network wells were added to the computer data-storage system, with arrangements made to obtain future records on a continuing basis.

During the past year more than 3,200 water-level measurements were made in 1,260 observation wells by personnel of the U.S. Geological Survey, the Conservation and Survey Division, and the Nebraska Department of Water Resources. These data, together with more than 5,000 water-level measurements from 63 wells equipped with automatic recorders and about 1,550 water-level measurements made in 422 wells by personnel of other agencies or associations, were entered into computer storage. This report contains data on the 1973 fall water levels for 708 selected wells. Records of any water-level measurements in these wells at other times of the year and water-level data for other observation wells in the state may be obtained, upon request, from the Conservation and Survey Division, University of Nebraska, Lincoln, Nebraska 68508.

## PRECIPITATION IN 1973

The principal source of all recharge to aquifers in Nebraska is that part of the precipitation which infiltrates into the ground at or near the point where the precipitation falls, although seepage from streams, lakes, irrigation canals, and from applied irrigation water may be a more important contributing source in some localities. No quantitative relationship between the amount of precipitation and the resultant changes in groundwater levels has been determined in the state, but records of water-level fluctuations often can be roughly correlated with precipitation. Precipitation amounts also affect water levels indirectly because the quantities of water pumped for irrigation and municipal use generally are less during wet periods and more during dry periods.

Total precipitation in Nebraska during 1973 was markedly above normal, ranging from more than 4 inches (10cm) above normal in the panhandle to more than 17 inches (43cm) above normal in the southeastern part of the state, as is shown by the graphs in figure 2. The solid lines on the graphs is the cumulative average monthly precipitation for 1973, and the dashed line is the cumulative normal precipitation (30-year average). Precipitation during 1973 differed from the normal by the amount of deviation between the curves.



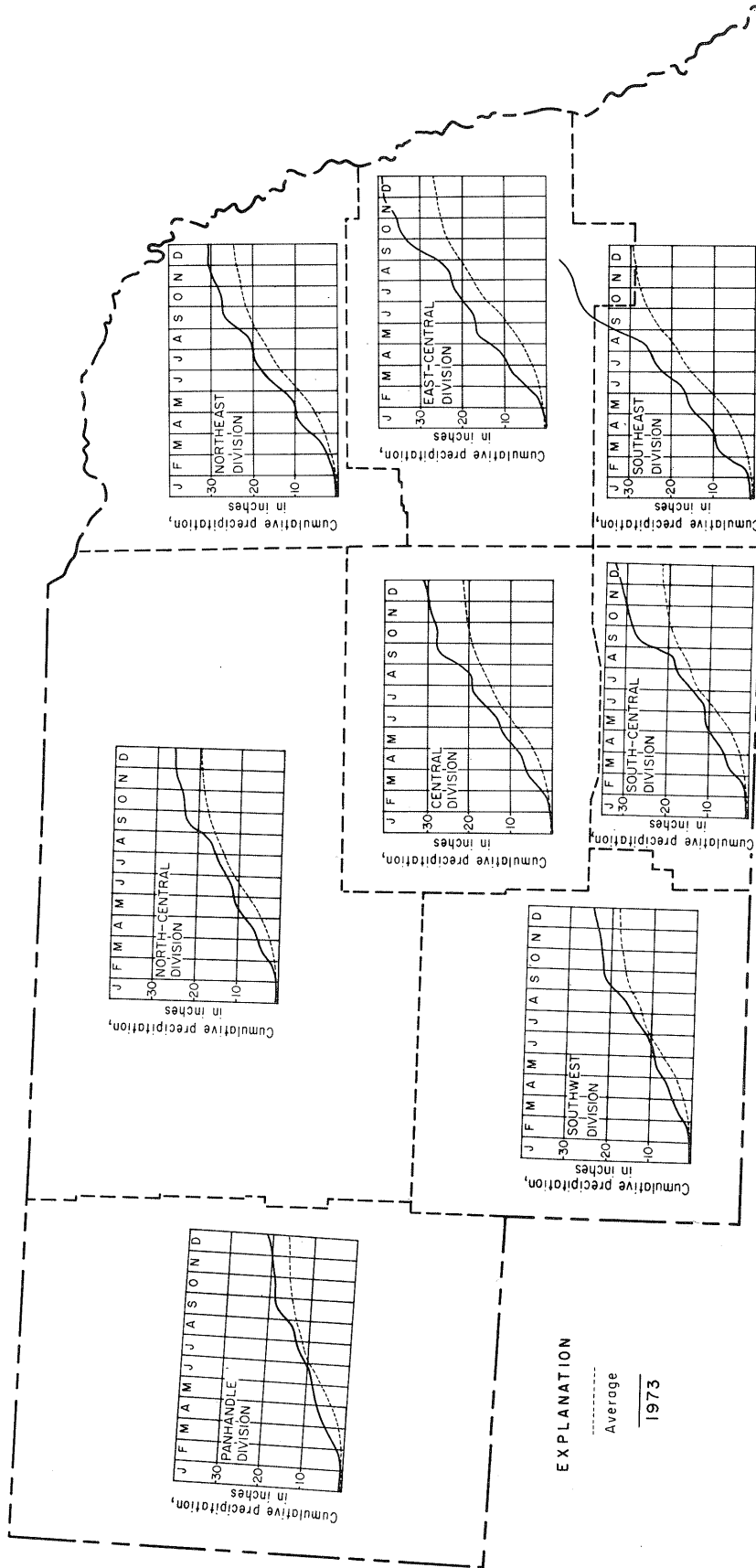


Figure 2.--Relation of 1973 cumulative average monthly precipitation to cumulative average monthly normal precipitation in eight divisions of Nebraska.

Precipitation during January and February was near normal, but during March precipitation averaged two-to-three times normal. Cool-season precipitation (October through March) ranged from one and one-half times normal in the panhandle to more than two times normal in the southeastern part of the state. During April and May precipitation was near normal, but during June it was below normal throughout the state. It was the driest June since 1933 in the panhandle, north-central, central, east-central, southwestern, and southeastern parts of the state; the third driest June since 1933 in the south-central part; and the sixth driest June since 1933 in the northeastern part. Precipitation during July generally averaged slightly above normal and during August it averaged slightly below normal. During September precipitation was considerably above normal throughout the state, with all parts of the state except the northeastern and central parts having the wettest September since 1931. Warm-season precipitation (April through September) was above normal for the entire state and the greatest warm-season accumulation of precipitation since 1931 occurred in the south-central and southeastern parts of the state. During October, November, and December precipitation was above normal throughout most of the state, with the panhandle, southwestern, and south-central parts of the state having the greatest amount of precipitation for December in 43 years of record.

## USE OF GROUNDWATER

Aquifers capable of yielding water to wells underlie about 95 percent of Nebraska. These aquifers are the source of almost all water used for domestic, stock, and industrial purposes, and for more than four-fifths of the municipal water supplies. Most groundwater pumped in Nebraska, however, is used for irrigation. In more than half of the state, construction of wells that will yield more than 500 gallons of water per minute (31 l/s) is possible. Irrigation wells have been installed in all of the state's 93 counties and are the source of water used on about three-quarters of the approximately 5 million acres (2 million hm<sup>2</sup>) of irrigated land in the state.

Generally, wherever land is both irrigable and underlain by an available groundwater supply, irrigation wells have been or are being drilled. As a result of variations in the distribution of irrigable land and water sources, the distribution of irrigation wells is by no means uniform. Fifty percent of the more than 41,000 irrigation wells in the state are concentrated in a 12-county area comprising the central part of the Platte River valley and the upper part of the Blue River basin. Dawson, Buffalo, Hall, and Merrick counties each have more than 2,000 irrigation wells, and the other eight counties (Adams, Clay, Fillmore, Hamilton, Kearney, Phelps, Polk, and York) each have more than 1,000 irrigation wells. In Hall County, which has the greatest number of registered irrigation wells--2,593--the

density is 4.7 wells per square mile, but in Merrick County, which has the second largest number of wells--2,581--the irrigation-well density is 5.2 wells per square mile.

Soil type, economics, and/or topography have formerly made irrigation impractical in many parts of Nebraska underlain by an available supply of groundwater. Recent advances in agricultural practices and irrigation technology, however, have made it possible to use groundwater for irrigation on much land in these areas. As a result, there has been a great and continuing increase in the number of irrigation wells installed in some counties during the past 10 years. For example, during that period 777 irrigation wells were installed in Holt County, 539 in Chase County, and 481 in Custer County.

During 1973, installation of irrigation wells continued at an active rate according to the records of wells registered with the Nebraska Department of Water Resources. Holt County, with 140 new wells, again led other counties, followed by York County with 99 wells and Lincoln County with 84 wells. Adams, Antelope, Chase, Clay, Custer, Dawson, Frontier, Hall, Hamilton, Kearney, Merrick, Perkins, and Phelps counties increased their number of wells by 50 or more. Figure 3 shows the number of irrigation wells registered during 1973 and the total number of irrigation wells registered before the end of 1973 for each county in Nebraska. The total number of registered irrigation wells in the state through 1973 is 41,628, as shown by the graph in figure 4.



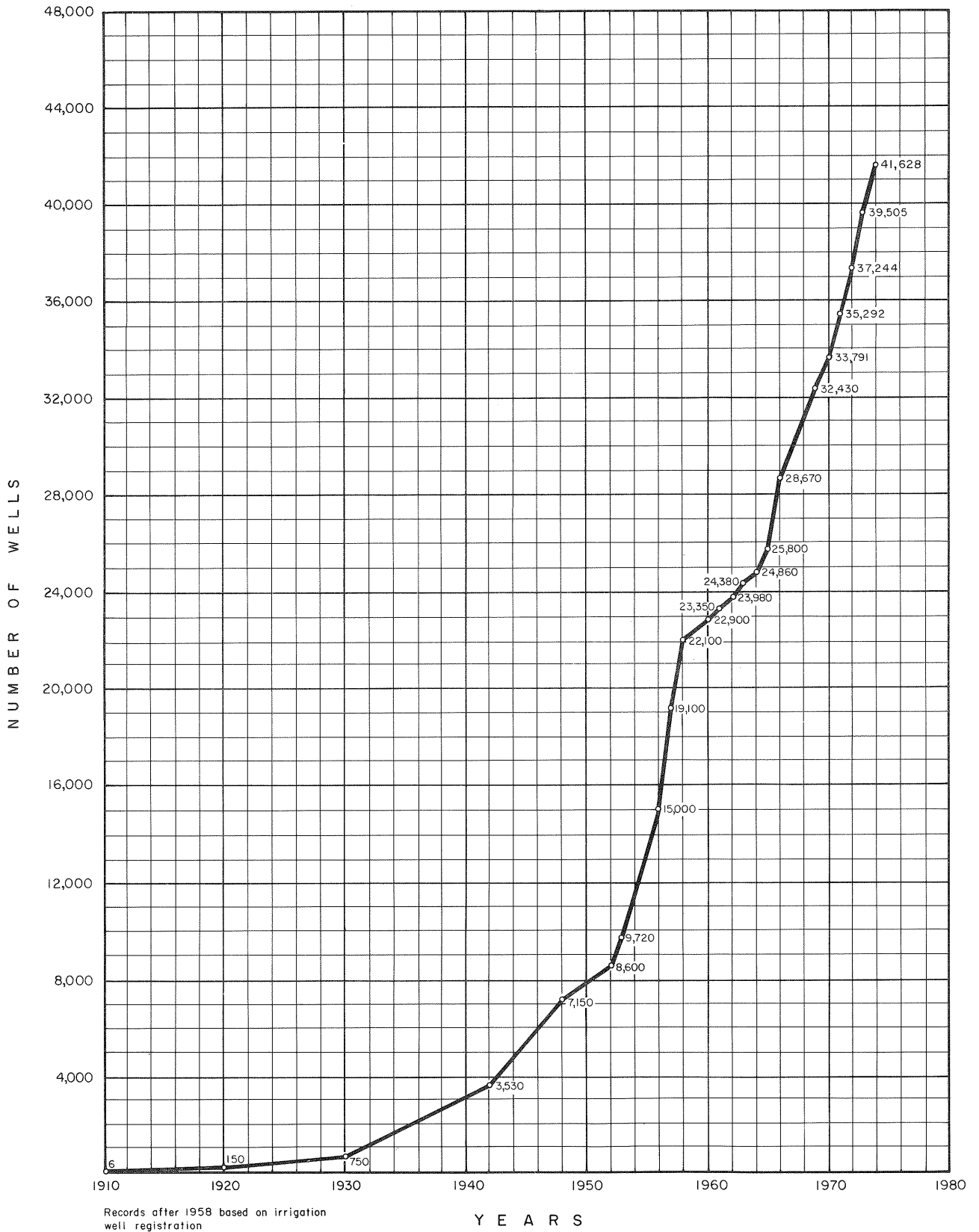


Figure 4.--Cumulative totals of irrigation wells registered in Nebraska through 1973.

## WATER-LEVEL FLUCTUATIONS

Prior to development by man, the groundwater system was generally in a state of equilibrium--recharge to aquifers approximately equaled discharge from aquifers. Under natural conditions in areas where the depth to water exceeds the reach of plant roots, water levels generally fluctuate relatively little because additions to groundwater storage tend to be evened out and are virtually in balance with natural losses from storage. Conversely, in areas where the depth to water is shallow, water levels commonly fluctuate through a considerable range, especially during the growing season when the greatest natural losses by evapotranspiration and seepage occur and when most of the precipitation that recharges the aquifer falls. Discharge from wells and recharge from infiltration of surface water applied to fields or stored in reservoirs alters the natural equilibrium. Thus, in many parts of the state water-level fluctuations resulting from natural conditions are largely masked by water-level fluctuations caused by man's activities.

Wells selected for observation of water-level fluctuations represent a variety of hydrologic conditions. Some wells are in areas of shallow water table and others in areas of deep water table; some monitor the effect of large withdrawals for irrigation or municipal use, others monitor the effect of seepage from surface water applied to crops; and some are located where water-level changes reflect only natural conditions of recharge

and discharge. Most important aquifers in the state are represented by at least one observation well, and observation wells are located in all parts of the state where large-scale development of groundwater is occurring.

In almost all the observation wells in Nebraska, the water level in the well is continuous with the water table, or the upper surface of the zone of saturation. Thus, long-term water-level trends generally indicate changes in the amount of water stored in the aquifers. In a few wells that are measured, however, the water level coincides with the potentiometric surface of groundwater that is confined under pressure significantly greater than atmospheric. Water-level changes in these wells represent the effects of changes in static head and may or may not be indicative of changes in storage.

A water table is not level and smooth, as is the water surface of a lake or above-ground reservoir. Instead, it is gently sloping and may be somewhat irregular, particularly if it is affected by water-management practices. Where irrigation wells are concentrated, the water table during the pumping season and for a short time thereafter generally is very irregular, each operating well causing a depression in the groundwater surface. Conversely, where water-management practices increase recharge, the water table becomes irregularly mounded, the irregularities being due to different rates of water addition and infiltration. The irregularities in the water table caused by water-management activities tend to smooth out if the groundwater system is



undisturbed for a period of time roughly equal to, or longer than, the period of time that the groundwater system was affected by pumping or infiltration.

In areas of intensive withdrawals for irrigation, pronounced seasonal water-level declines alternate with seasonal water-level recoveries. In upland areas the amount of recovery generally is somewhat less than the preceding decline, whereas in valley areas the amount of recovery is more likely to balance declines over a span of several years. Long-term progressive water-level declines are unlikely to occur in many valley areas because withdrawals for irrigation remove about the same quantity of water from storage as was removed by native vegetation under natural conditions. Furthermore, most valley soils transmit additions to groundwater storage more readily than do upland soils and the recharge potential is increased by runoff into the valleys from side slopes and uplands.

In the vicinity of municipal well fields, where withdrawals generally are continuous, water-level fluctuations reflect changes in pumping rates. Because hot-weather demands for water are considerably greater than cool-weather needs, water-level drawdowns caused by pumping are greater in summer than in other seasons.

Under almost all hydrologic conditions, water levels are likely to be highest in the spring before natural discharge or large-scale pumpage commences and are likely to be lowest at or near the end of the growing season.

Because many of the water-level fluctuations in a given well may be due to pumping from that well or from nearby wells, good judgment must be exercised in using water-level records to determine changes in groundwater storage. Thus, in an area where many irrigation wells are pumped each summer, the water-level decline that occurs while pumps are still operating should not be interpreted as a measure of reduction in groundwater storage. Instead, trends in storage should be determined by comparing depth-to-water measurements that are made after water levels have recovered from any local effects of seasonal pumping. Comparison of either spring-to-spring or fall-to-fall measurements is equally significant in indicating water-level trends. Spring measurements usually are more significant in evaluating annual changes in storage, but late-fall measurements give a better basis for evaluating water use.

Locations of all the selected observation wells used in the preparation of this report are shown in figure 5. Most of the wells are measured in both late spring (May) and early fall (October), some are measured only in the fall, and some are measured monthly. Measurements at regular intervals, even though a year apart, are adequate for determination of water-level trends but not for detailed study of the magnitude of water-level responses to the factors causing water-level fluctuations. Where a continuous record of water-level fluctuations is desired, a well is equipped with a recording gauge that scribes on a chart the magnitude of all water-level fluctuations against time.

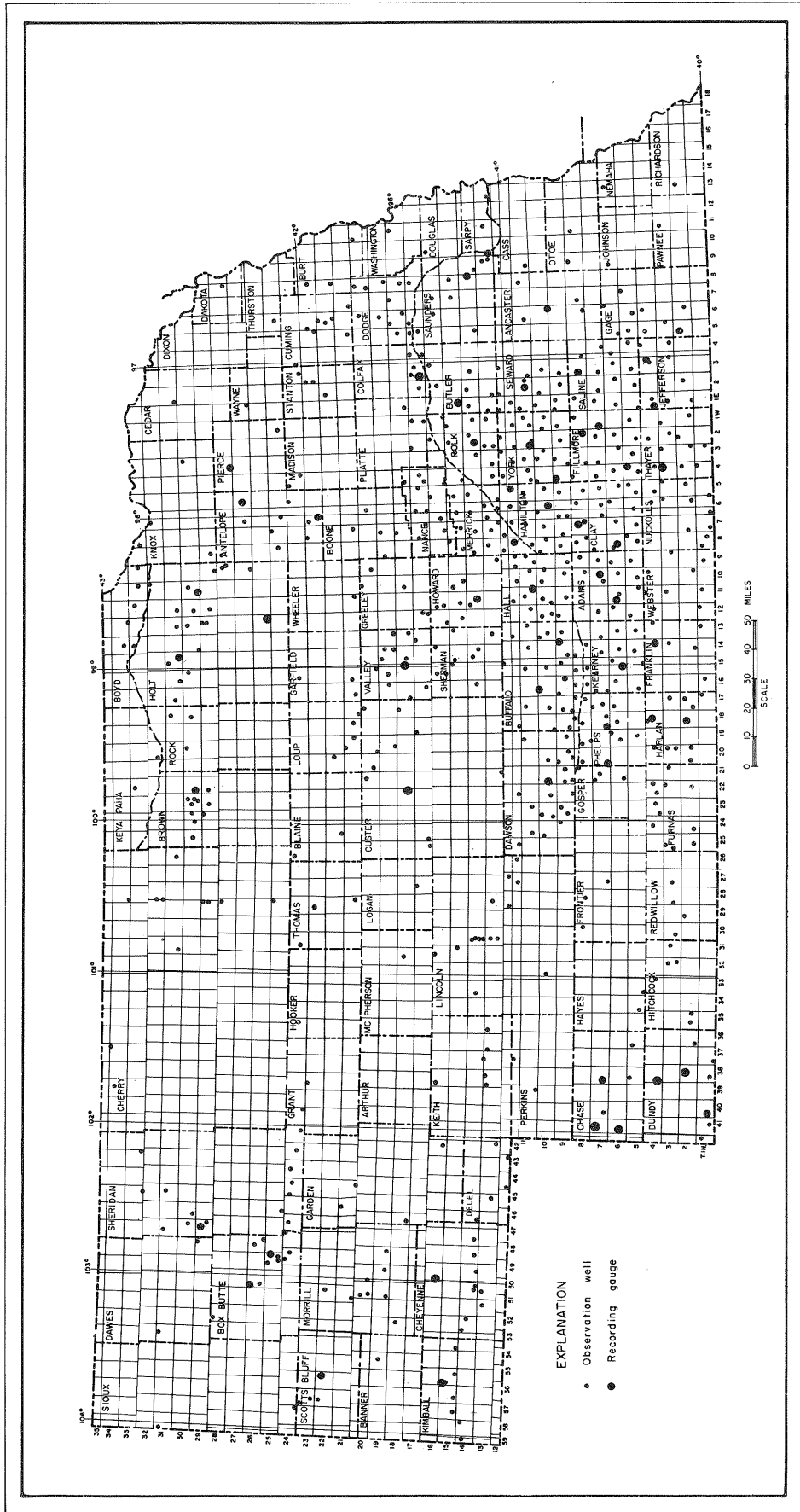


Figure 5.--Locations of selected observation wells in Nebraska.

Table 1, which begins on page 43, gives the following information for each well listed:

Year of the earliest recorded water level.

Highest and lowest recorded water levels, in feet below land surface.

A fall 1973 water level, in feet below land surface. (For various reasons, a few wells may not have been measured.)

The departure, in feet, of the fall 1973 water level from an assumed normal water level.<sup>1</sup> Negative departures indicate a net water-level decline; all others indicate a net water-level rise.

The change from previous fall, or net difference, in feet, between the fall 1973 and fall 1972 water-level measurements. Again, negative departures indicate a net water-level decline. (In some instances, fall 1972 water-level measurements are not available.)

---

<sup>1</sup>The term "assumed normal water level" pertains to the estimated average water level prior to any water-resources development in the vicinity of the well, and the comparison provides a measure of the net effect of all water-resources developments on the water-level position at the well site. For wells in the intensively developed parts of the Platte River valley, the assumed normal water level is representative of conditions existing in the early 1930s; for wells in the upper part of the Blue River basin, it is representative of conditions existing in the early 1950s; for wells in the Tri-County area, it is representative of conditions in the early 1940s; and for wells in areas where no significant developments have occurred, it is simply the first water-level measurement made in those wells. All available water-level data collected prior to or during the early stages of water-resources developments in a given area were used in estimating predevelopment water levels for observation wells in that area.

Beginning on page 74 is a series of hydrographs for each of the observation wells equipped with a recording gauge. These show water-level fluctuations in each well since installation of the recording gauge.

In both table 1 and the series of hydrographs, wells are grouped by counties, which are arranged alphabetically. Each well is identified by a number that is based on the well's location in the U.S. Bureau of Land Management's survey of Nebraska. The numeral preceding the N (north) indicates the township, the numeral preceding the E (east) or W (west) indicates the range, and the numeral preceding the terminal letters indicates the section in which the well is located. The terminal letters A, B, C, and D indicate the well's location within the section. The first letter denotes the quarter-section, or 160-acre (64.75 hm<sup>2</sup>) tract, the second-quarter-quarter, or 40-acre (16.18 hm<sup>2</sup>) tract. And, if given, the third letter the quarter-quarter-quarter, or 10-acre (4.05 hm<sup>2</sup>) tract. The letters are assigned in a counterclockwise direction, beginning in the northeast corner of each tract. Thus, a well in Hall County in the SW 1/4 SE 1/4 sec. 12, T. 11 N., R. 9 W., would be assigned the number 11N-9W-12DC1. (See fig. 6.) When additional wells are located in the same tract, they are distinguished by the sequential digit at the end of the well number. Thus, a second well in the SW 1/4 SE 1/4 sec. 12, T. 11 N., R. 9 W., would be assigned the number 11N-9W-12DC2.

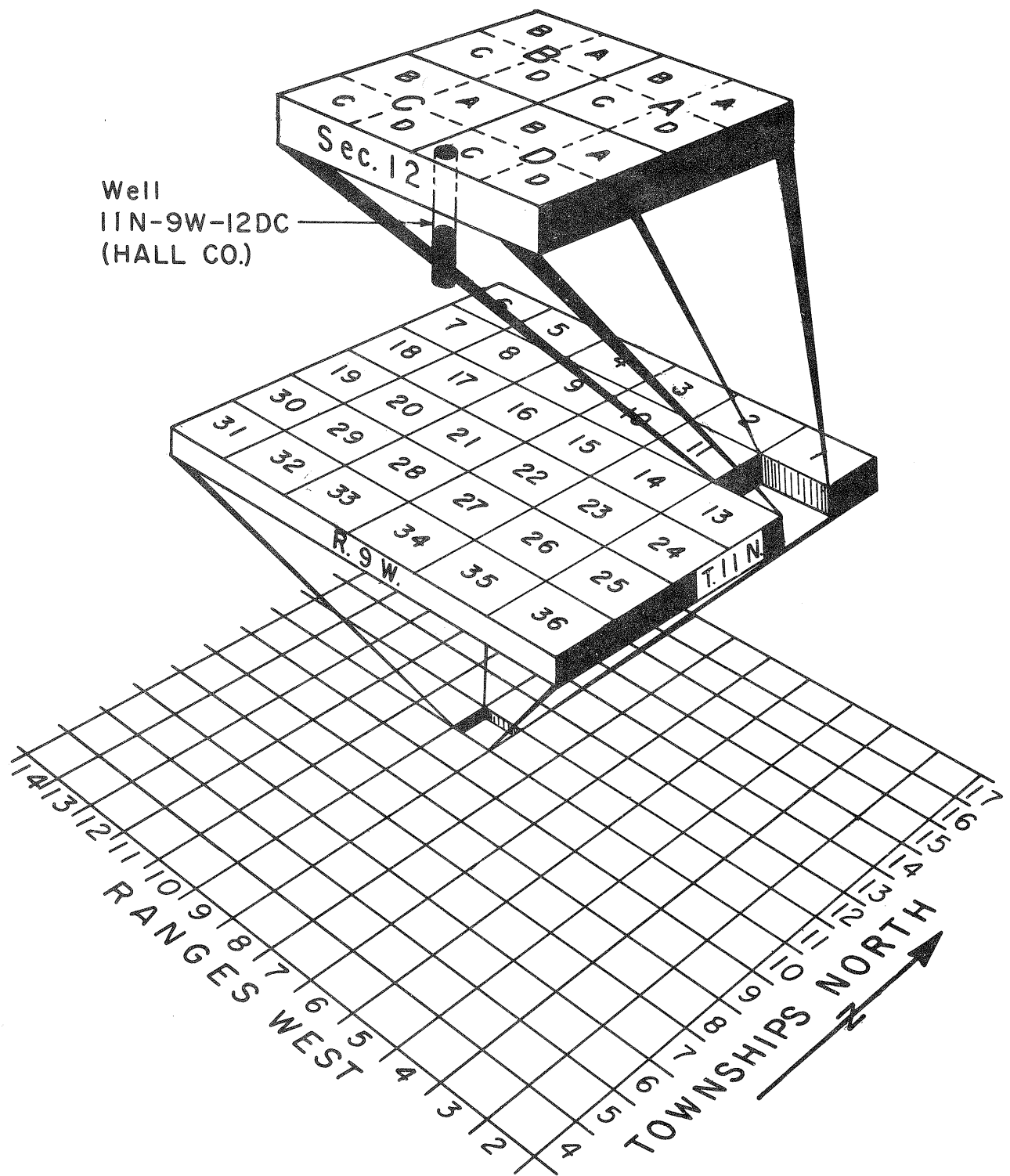


Figure 6.--Well-numbering system.

## CHANGES IN WATER LEVELS

Average groundwater levels rose throughout most of Nebraska between the fall of 1972 and the fall of 1973, primarily because of the widespread heavy rains that fell in September and, to some degree, because of the above-average cool-season precipitation which fell between October 1972 and March 1973. Average fall 1973 water levels were lower than the 1972 fall averages in only 13 of the state's 93 counties. (See fig. 7.) The most significant declines in 1973, significant in that they indicate a continuing trend for groundwater level declines, occurred in five counties in the western and southwestern parts of the state and in two counties located in the Blue River basin of southeastern Nebraska.

In the western and southwestern parts of the state, declines averaged 0.18 foot (0.05 m) in Perkins County, 0.92 foot (0.28 m) in Chase County, 0.32 foot (0.10 m) in Cheyenne County, 0.11 foot (0.03 m) in Frontier County, and 0.47 foot (0.14 m) in Box Butte County. Average groundwater levels generally have been declining for the past 25 years in Box Butte County; the past 10 years in Chase, Frontier, and Perkins counties; and the past 5 years in Cheyenne County. These declines are the result of an increasing use of groundwater for irrigation in an area where more water is needed for irrigation and less water is available because of a semiarid climate.





In the Blue River basin, where pumping for irrigation has caused the water table to decline 5.0 feet (1.5 m) or more over an area of more than 3,000 square miles (7,770 km<sup>2</sup>) during the past 20 years, average declines occurred in only 2 of the 13 counties in the basin between the fall of 1972 and the fall of 1973--0.08 foot (0.02 m) in Adams County and 0.86 foot (0.26 m) in Fillmore County.

The most notable water-level rises caused by the heavy rains during September occurred in the southeastern and central parts of the state, where the average water level rose 2.0 feet (0.6 m) or more in 18 counties between the fall of 1972 and the fall of 1973. In the Nemaha River basin of southeastern Nebraska, water levels rose above the 1972 fall water levels more than 5.0 feet (1.5 m) in most observation wells and more than 10.0 feet (3.0 m) in some observation wells. In the central part of the state, water levels in most of the observation wells located in Hall, Howard, Merrick, Sherman, and Valley counties rose between 1.0 and 3.0 feet (0.3 and 0.9 m), and in a few observation wells more than 4.0 feet (1.2 m).

A comparison of fall 1973 water levels with assumed normal water levels shows the principal localities where water-resource developments have significantly affected groundwater supplies. The results of the comparison are shown in figure 8, where the larger areas are delineated and patterns are used to indicate amounts of net water-level rise and decline. Many other areas in Nebraska have had significant changes in water levels, such as

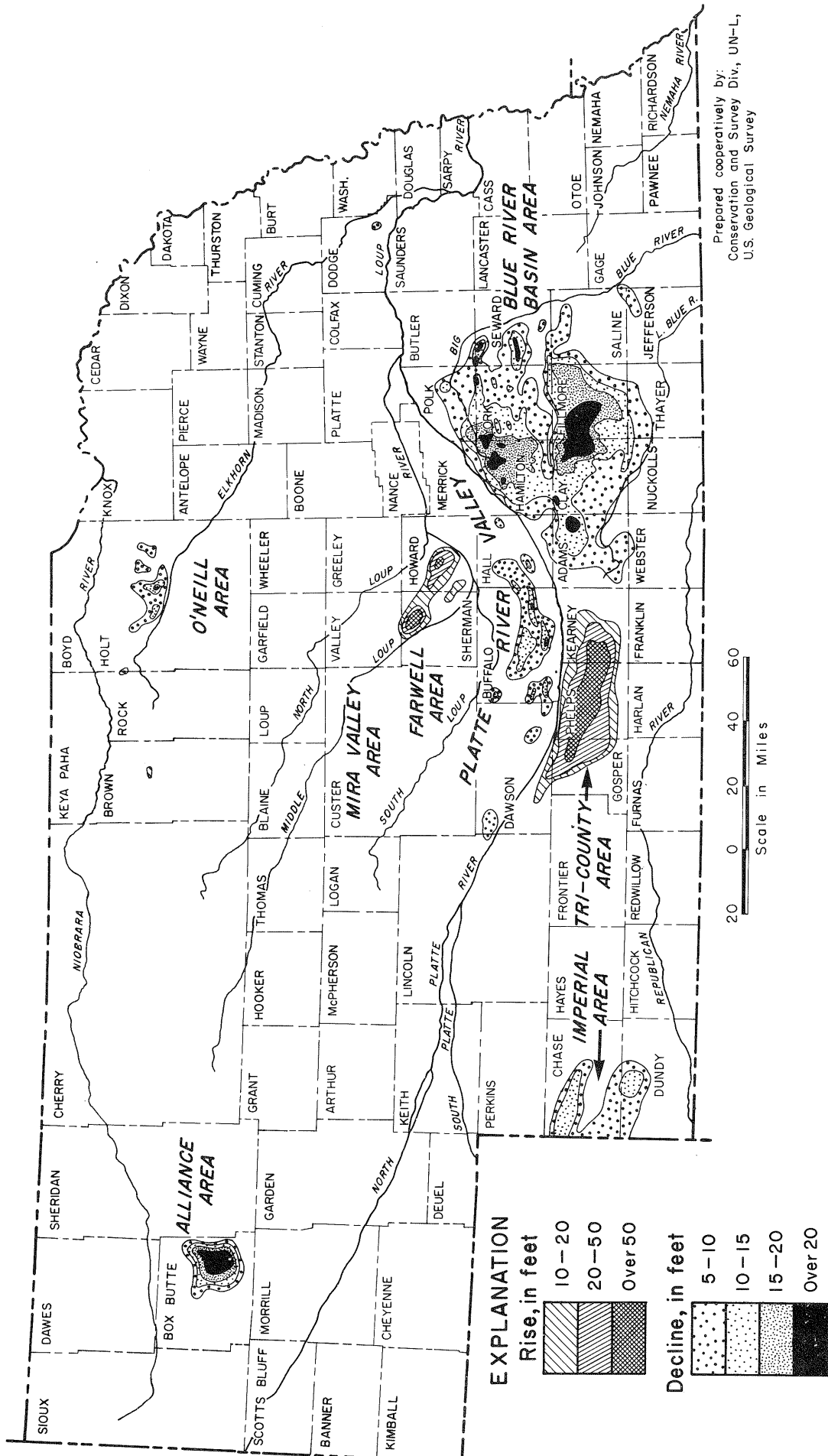


Figure 8.--Principal areas in Nebraska where groundwater levels for the fall of 1973 show a significant rise or decline from assumed normal water level.

the vicinity of the town of Niobrara in Knox County, but these are either too small or too poorly defined to show on the map.

It should be noted that the map showing principal areas of rise and decline (fig. 8) is based on all available water-level data. Because of the large number of observation wells in many areas, this map in previous water-level reports was based on data for only the selected wells listed in table 1. Use of computer techniques now facilitate data analysis and make possible more accurate and detailed mapping of water-level changes. Because all data were used in preparing the map, differences in values indicated on the map and those contained in table 1 may exist.

The greatest water-level rise has occurred in the Tri-County area, which includes Dawson, Gosper, Phelps, and Kearney counties (fig. 8). In this area, water diverted from the Platte River has been used for irrigation since the early 1940s, and seepage from the distribution system and infiltration of water applied to crops have raised the water table more than 86.6 feet (26.4 m) in one observation well in Phelps County and lesser amounts elsewhere. A hydrograph for well 6N-15W-1CB1 (fig. 9) in Kearney County indicates that the water level in the vicinity of that well continued the long-term upward trend that began in the early 1940s. Pumping from irrigation wells may be slowing the water-table rise and in places reversing it. In Phelps and Gosper counties, the average water level declined during both 1971 and 1972.

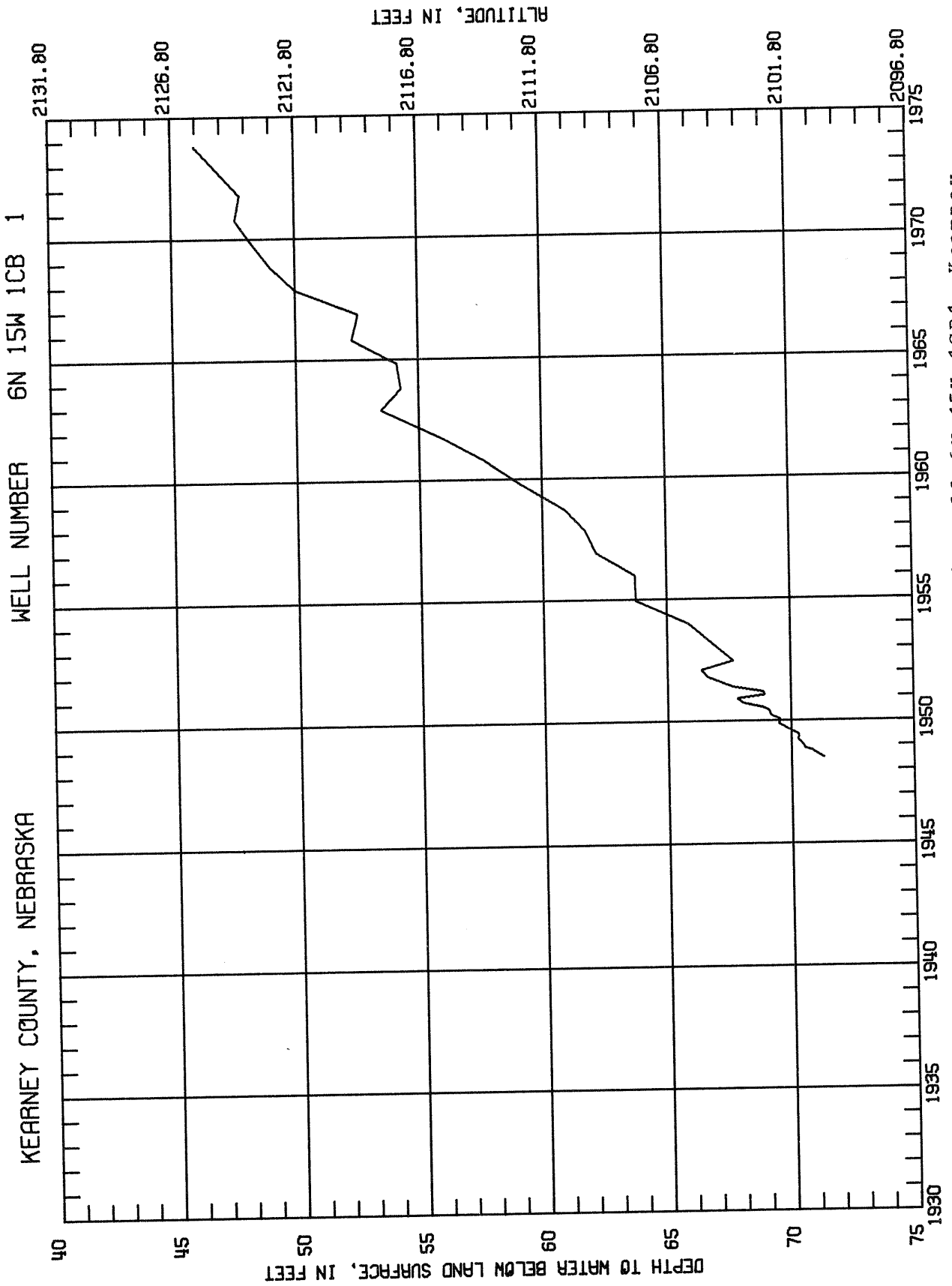


Figure 9.--Water-level fluctuations in well 6N-15W-1CB1, Kearney County, Nebraska.

Another area where the water level rose due to seepage of water is the Farwell area in Sherman and Howard counties. There water is diverted from the Middle Loup River for irrigation of crops in an upland area, and a water-level rise of as much as 50 feet (15 m) has been observed in the vicinity of Sherman Reservoir. The greatest net change from assumed normal in an observation well in the affected area away from the reservoir is a rise of more than 30.8 feet (9.4 m).

The most extensive area having a general water-level decline is in the upper part of the Blue River basin, where the average annual withdrawal of groundwater from irrigation wells now averages about 1.0 million acre-feet (1233 hm<sup>3</sup>). Maximum lowering of the water table--a little more than 30 feet (9 m)--has occurred in a small area in northeastern Clay and northwestern Fillmore counties. (See fig. 8.)

Pumping for irrigation in an area near Alliance in Box Butte County has caused the water level to decline 28.2 feet (8.6 m) in one observation well, 35.6 feet (10.9 m) in another, and 45.4 feet (13.8 m) in a third. (See fig. 10.) Because of less precipitation in this area, the amount of irrigation water applied to crops in an average year is greater than in southeastern Nebraska. Groundwater withdrawals for irrigation in the Alliance vicinity began in the late 1930s.

Other areas where the water table declined because of pumping from irrigation wells are near O'Neill in Holt County, between Imperial and Lamar in Chase County, and in several places

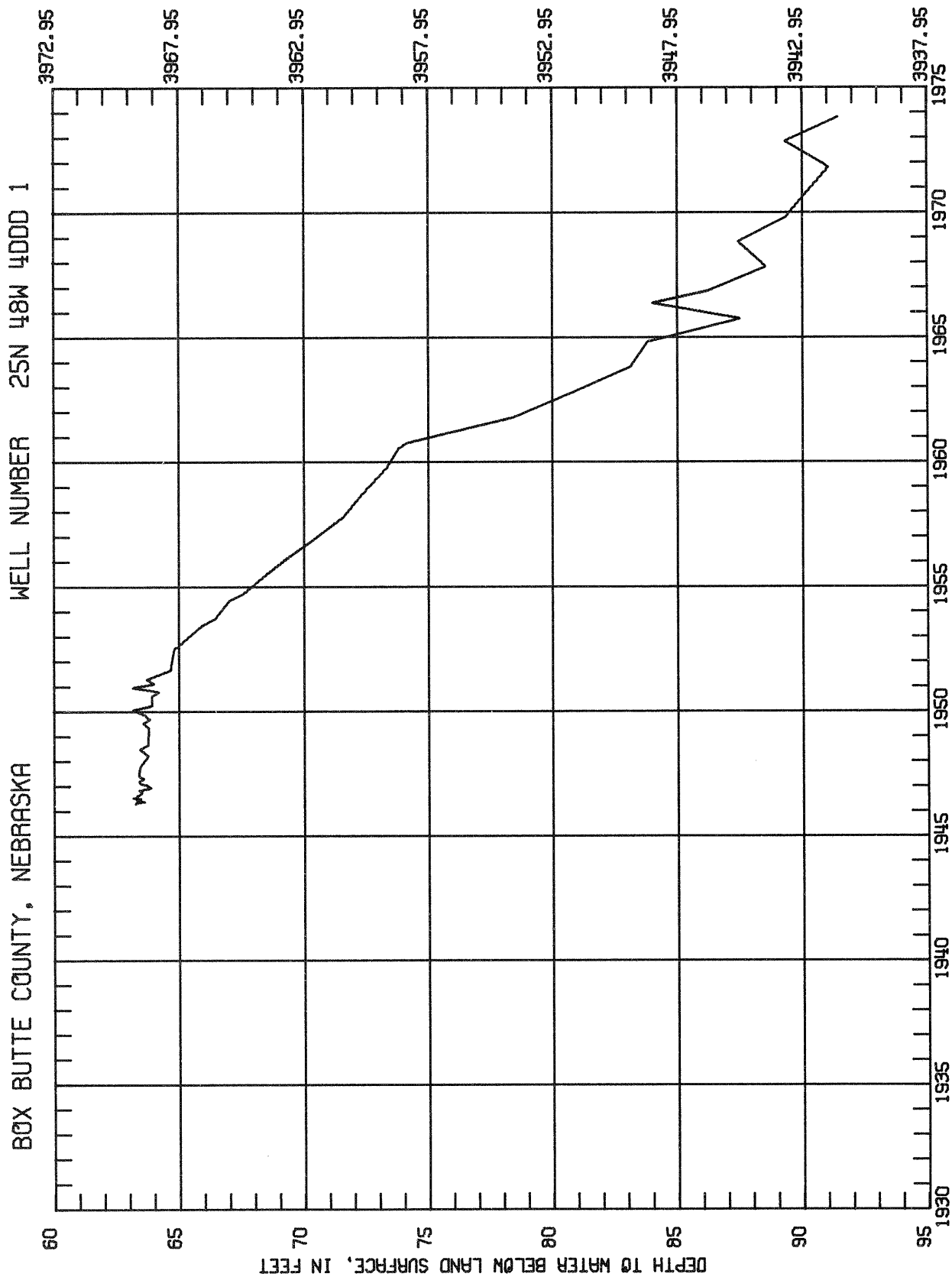


Figure 10.--Water-level fluctuations in well 25N-48W-4DDD1, Box Butte County, Nebraska.

on the north side of the Platte River between Brady in Lincoln County and Central City in Merrick County. Except in three small areas, one in Holt County and two in Buffalo County, the decline has not exceeded 15.0 feet (4.6 m). Lowering of the water table in the Platte River valley reduces natural groundwater loss by evapotranspiration and creates additional storage space for both infiltrating floodwater and precipitation. As illustrated by the hydrograph for well 9N-14W-19DD1 in Buffalo County (fig. 11), the water level in the fall of 1973 was lower than in the 1930s and 1940s, but was higher than in the falls of 1955 through 1957 and in the falls of 1963 through 1966.

Hydrographs for 56 observation wells follow table 1 and provide a detailed record of water-level fluctuations at selected locations where automatic recording gauges have been installed. (See figs. 1d and 5.) Hydrographs shown in this report were plotted by a computer, using a program developed by R. E. Booker of the U.S. Geological Survey. Most hydrographs show marked summertime declines and long-term downward trends in the upland areas where large amounts of groundwater are withdrawn for irrigation use. Hydrographs for the Hastings well in Adams County, the Shickley well in Fillmore County, the Aurora well in Hamilton County, the Osceola well in Polk County, the Dorchester well in Saline County, the Seward well in Seward County, and the Henderson and York wells in York County are good examples of water-level fluctuations in response to groundwater withdrawals

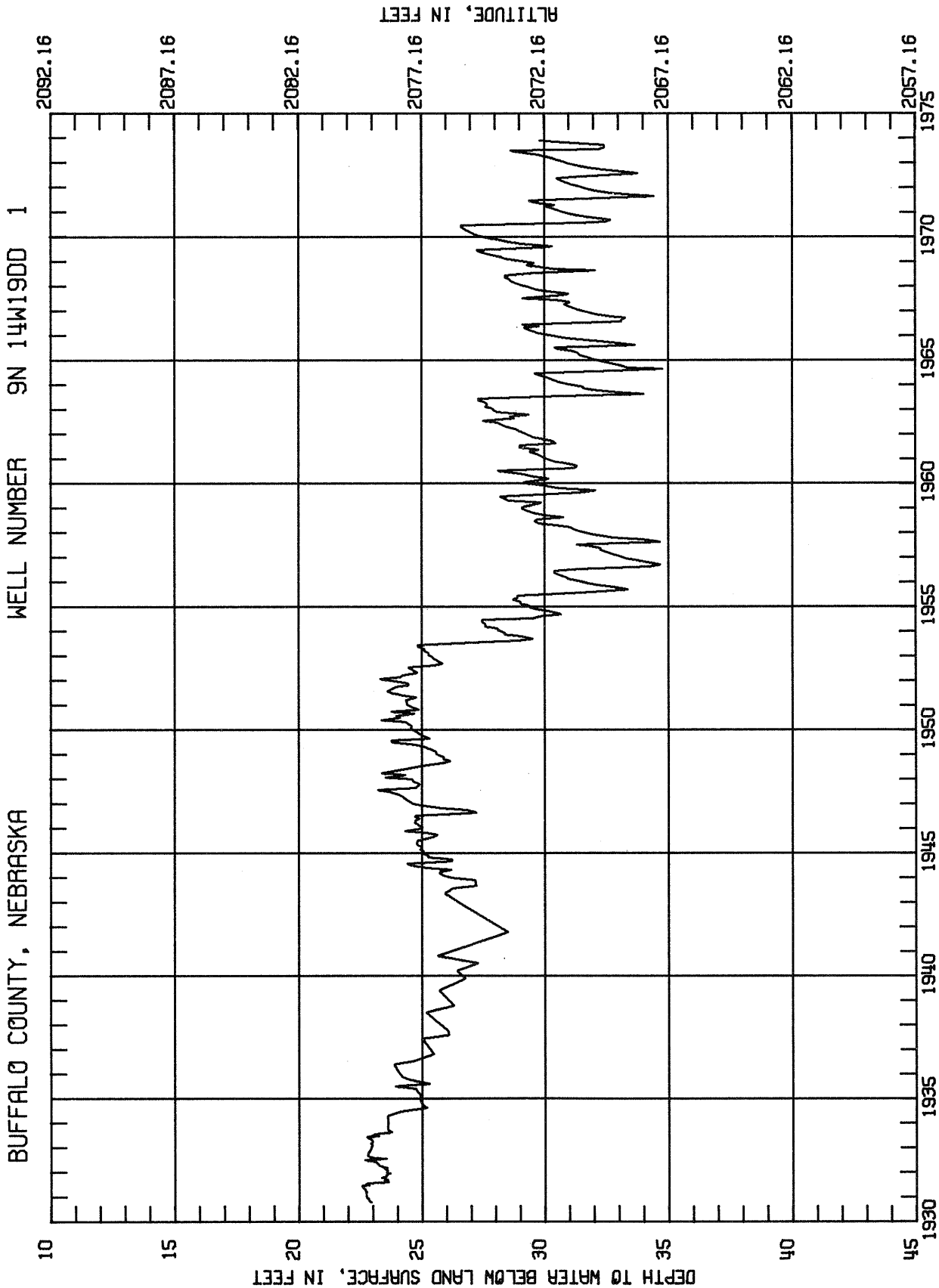


Figure 11.--Water-level fluctuations in well 9N-14W-19DD1, Buffalo County, Nebraska.



in the upper Big Blue River basin. Similarly, hydrographs for the Imperial and Champion wells in Chase County, the Atkinson and O'Neill wells in Holt County, and the Alliance and Hemingford wells in Box Butte County reflect water-level changes in three other areas of intensive pumping for irrigation.

Several hydrographs are for wells located in valley areas where water levels are affected by groundwater withdrawals but where no significant progressive water-table decline has been established. Those for wells in the Platte River valley are the Lexington well in Dawson County, the Gibbon well in Buffalo County, the Alda well in Hall County, and the Chapman well in Merrick County. Recharge from applications of surface water for irrigation also is reflected by the hydrograph for the Lexington well. In nearly all such areas of shallow water table, recharge from excess precipitation or from floods can rapidly raise the water table.

Hydrographs for three wells in areas of relatively deep water table show marked responses to nearby pumping, but there is only a slight indication of any progressive water-level change. These wells--the Alma well in Harlan County, the Rising City well in Butler County, and the Osceola well in Polk County--are in areas where the groundwater is under artesian pressure. Pumping in such areas lowers the pressure, and the effect on the water level in nearby wells is almost instantaneous. When pumping stops, the artesian pressure rapidly reaches a new equilibrium, and water levels rise to a new static water level, which to date

is almost the same as the water level before pumping started.

The Van Dorn well in Lancaster County, which formerly was one of several in the Lincoln public water-supply system, is also completed in an artesian aquifer. Pumping in the immediate vicinity was discontinued in 1940. The automatic recording gauge installed in 1951 indicates that the water level has risen 15.5 feet (4.7 m) since 1951. Because this well is completed in an artesian aquifer, the hydrograph is a record not only of the long-term water-level rise but also of many minor fluctuations caused by changes in atmospheric pressure. Increasing atmospheric pressure depresses the water level and decreasing pressure permits the water level to rise again.

Four other hydrographs show a progressively rising water-level trend. Those for the Minden well in Kearney County and the Bertrand well in Phelps County show a mounding of the water table due to infiltrating irrigation water that is diverted from the Platte River by the Central Nebraska Public Power and Irrigation District. Water levels have risen 24.0 feet (7.3 m) in the Minden well since 1947, and 45.5 feet (15.9 m) in the Bertrand well since 1947. Increased use of groundwater for irrigation in the vicinities of these recorder wells probably will tend to counterbalance some of the excessive recharge and help prevent or at least slow any significant additional water-level rise. The hydrograph for the Mirage Flats well in Sheridan County also shows buildup of the water table due to infiltrating irrigation water. Rises occur during the irrigation

season and declines during the non-irrigation season. To date the sum of the rises is greater than the sum of the declines, and the net rise has amounted to approximately 5.5 feet (1.7 m) since 1953. Water levels in the Dannebrog well in Howard County have risen 10.0 feet (3.0 m) since installation of the well in 1968. The rise has resulted from the infiltration of surface water that is diverted from the Middle Loup River to the Farwell area for irrigation. (See fig. 8).

Two wells with recording gauges--the Ashland well in Saunders County and the Chapman well in Merrick County--are located near the Platte River and many of the water levels recorded can be correlated with river stage. The Ashland well is located between the Platte River and the Lincoln city well field, only a short distance from the river. Thus, most of the fluctuations shown on the hydrograph are caused by changes in river stage, but the effects of pumpage from the well field accentuates many of the summer declines because the river stage is low and pumpage for municipal use is high. The Chapman well is located about one-half mile from the Platte River and the water-level fluctuations are not as pronounced as those in the Ashland well. Fluctuations in the Chapman well reflect changes in river stage, modulated slightly by the effects of infiltration, precipitation, and evapotranspiration of groundwater.

PUBLISHED REPORTS CONTAINING WATER-LEVEL MEASUREMENTS

Publication of measurements of water levels in representative wells in the United States was begun by the U.S. Geological Survey in 1935 and was continued annually until 1957. Data collected after that time have been published at five-year intervals. Records for representative Nebraska wells are included in the publications listed in the following table.

U.S. Geological Survey Water-Supply Paper--Water Levels and Artesian Pressures in Observation Wells in the United States

<u>Year</u>	<u>Number</u>	<u>Year</u>	<u>Number</u>	<u>Year</u>	<u>Number</u>
1935	777	1944	1018	1953	1267
1936	817	1945	1025	1954	1323
1937	840	1946	1073	1955	1406
1938	845	1947	1098	1956	1456
1939	886	1948	1128	1957-61	1781
1940	908	1949	1158	1962-66	1976
1941	938	1950	1167	1967-71	2090
1942	946	1951	1193		
1943	988	1952	1223		

Water-level measurements made in selected wells in the various observation-well networks in Nebraska have been published annually in Nebraska Water Survey Papers since 1957. Many measurements made in wells as a part of some special study or specific project are unpublished, but the records are available in open file. The following reports, which are listed sequentially, include water-level data for the selected observation wells:

Keech, C. F., and Case, R. L., 1954, Water levels prior to January 1, 1954, in observation wells in Nebraska, Pts. 1 and 2: U.S. Geol. Survey open-file rept., Washington, D.C.; Denver, Colo.; and Lincoln, Nebr.

----- 1955, Water levels in observation wells in Nebraska during 1954: U.S. Geol. Survey open-file rept., Washington, D.C.; Denver, Colo.; and Lincoln, Nebr.

Keech, C. F., 1956, Water levels in observation wells in Nebraska during 1955: U.S. Geol. Survey open-file rept., Washington, D.C.; Denver, Colo.; and Lincoln, Nebr.

----- 1957, Water levels in observation wells in Nebraska during 1956: U.S. Geol. Survey open-file rept., Washington, D.C.; Denver, Colo.; and Lincoln, Nebr.

----- 1958, Water levels in observation wells in Nebraska during 1957: Nebraska Univ., Conserv. and Survey Div., Nebraska Water Survey Paper 4.

----- 1959, Water levels in observation wells in Nebraska during 1958: Nebraska Univ., Conserv. and Survey Div., Nebraska Water Survey Paper 5.

----- 1960, Water levels in observation wells in Nebraska during 1959: Nebraska Univ., Conserv. and Survey Div., Nebraska Water Survey Paper 6.

----- 1961, Water levels in observation wells in Nebraska during 1960: Nebraska Univ., Conserv. and Survey Div., Nebraska Water Survey Paper 9.

- Keech, C. F., and Hyland, J. B., 1962, Water levels in observation wells in Nebraska during 1961: Nebraska Univ., Conserv. and Survey Div., Nebraska Water Survey Paper 12.
- Emery, P. A., and Malhoit, M. M., 1963, Water levels in observation wells in Nebraska, 1962: Nebraska Univ., Conserv. and Survey Div., Nebraska Water Survey Paper 13.
- 1964, Water levels in observation wells in Nebraska, 1963: Nebraska Univ., Conserv. and Survey Div., Nebraska Water Survey Paper 14.
- 1965, Water levels in observation wells in Nebraska, 1964: Nebraska Univ., Conserv. and Survey Div., Nebraska Water Survey Paper 17.
- 1966, Water levels in observation wells in Nebraska, 1965: Nebraska Univ., Conserv. and Survey Div., Nebraska Water Survey Paper 18.
- Keech, C. F., 1967, Water levels in observation wells in Nebraska, 1966: Nebraska Univ., Conserv. and Survey Div., Nebraska Water Survey Paper 20.
- 1968, Water levels in observation wells in Nebraska, 1967: Nebraska Univ., Conserv. and Survey Div., Nebraska Water Survey Paper 23.
- Keech, C. F., and Svoboda, G. R., 1969 Water levels in observation wells in Nebraska, 1968: Nebraska Univ.-Lincoln, Conserv. and Survey Div., Nebraska Water Survey Paper 24.
- Keech, C. F., 1970, Groundwater levels in Nebraska, 1970: Nebraska Univ.-Lincoln, Conserv. and Survey Div., Nebraska Water Survey Paper 26.
- 1971, Groundwater levels in Nebraska, 1970: Nebraska Univ.-Lincoln, Conserv. and Survey Div., Nebraska Water Survey Paper 28.
- 1972, Groundwater levels in Nebraska, 1971: Nebraska Univ.-Lincoln, Conserv. and Survey Div., Nebraska Water Survey Paper 33.
- Ellis, M. J., 1973, Groundwater levels in Nebraska, 1972: Nebraska Univ.-Lincoln, Conserv. and Survey Div., Nebraska Water Survey Paper 34.

FACTORS FOR CONVERTING ENGLISH UNITS  
TO INTERNATIONAL SYSTEM (SI) UNITS

The United States now is one of the few nations of the world where nonmetric units are still in common use. Efforts are now underway in a number of places to begin the enormous task of conversion to the International System of Units (SI), which is often called the metric system. In the text of this report SI units are given parenthetically after English units of measurement. The following factors are used to convert English units to SI units.

Multiply English units	By	To obtain SI units
<u>Length</u>		
inches (in)	25.4	millimeters (mm)
	2.54	centimeters (cm)
feet (ft)	.3048	meters (m)
<u>Area</u>		
acres	.4047	square hectometers (hm <sup>2</sup> )
square miles (mi <sup>2</sup> )	2.590	square kilometers (km <sup>2</sup> )
<u>Volume</u>		
acre-feet (acre-ft)	.001233	cubic hectometers (hm <sup>3</sup> )
<u>Flow</u>		
gallons per minute (gpm)	.06309	liters per second (l/s)

INDEX TO TABLE 1

Shown below are the number of selected wells in each county and the page on which the tabulation for each county begins.

<u>County</u>	<u>Number of wells</u>	<u>Table page</u>	<u>County</u>	<u>Number of wells</u>	<u>Table page</u>
Adams .....	16	43	Johnson .....	1	59
Antelope .....	10	43	Kearney .....	17	59
Banner .....	1	44	Keith .....	6	60
Blaine .....	2	44	Keya Paha .....	2	60
Boone .....	5	44	Kimball .....	8	60
Box Butte .....	12	44	Knox .....	3	61
Boyd .....	7	45	Lancaster .....	5	61
Brown .....	11	45	Lincoln .....	15	61
Buffalo .....	27	45	Logan .....	2	62
Burt .....	3	46	Loup .....	5	62
Butler .....	9	46	McPherson .....	1	62
Cass .....	2	47	Madison .....	2	62
Cedar .....	1	47	Merrick .....	18	62
Chase .....	6	47	Morrill .....	9	63
Cherry .....	11	47	Nance .....	12	63
Cheyenne .....	10	48	Nemaha .....	1	64
Clay .....	21	48	Nuckolls .....	12	64
Colfax .....	5	49	Otoe .....	2	64
Cuming .....	8	49	Pawnee .....	1	64
Custer .....	13	50	Perkins .....	2	65
Dakota .....	1	50	Phelps .....	15	65
Dawes .....	2	50	Pierce .....	2	65
Dawson .....	22	50	Platte .....	5	65
Deuell .....	5	51	Polk .....	13	66
Dodge .....	13	51	Red Willow .....	4	66
Douglas .....	1	52	Richardson .....	1	66
Dundy .....	8	52	Rock .....	3	67
Fillmore .....	16	52	Saline .....	15	67
Franklin .....	6	53	Sarpy .....	2	67
Frontier .....	3	53	Saunders .....	11	67
Furnas .....	12	53	Scotts Bluff .....	4	68
Gage .....	10	54	Seward .....	15	68
Garden .....	4	54	Sheridan .....	15	69
Garfield .....	3	54	Sherman .....	10	69
Gosper .....	4	55	Sioux .....	2	70
Grant .....	2	55	Stanton .....	4	70
Greeley .....	5	55	Thayer .....	13	69
Hall .....	20	55	Thomas .....	3	70
Hamilton .....	20	56	Thurston .....	1	71
Harlan .....	12	57	Valley .....	13	71
Hayes .....	2	57	Washington .....	1	71
Hitchcock .....	6	57	Wayne .....	1	71
Holt .....	20	57	Webster .....	9	71
Hooker .....	1	58	Wheeler .....	1	72
Howard .....	10	58	York .....	23	72
Jefferson .....	10	59			

Locations of the wells for which measurements are given are shown in figure 5.



TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM ASSUMED NORMAL	CHANGE FROM PREVIOUS FALL	
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE			
ADAMS COUNTY										
5N-9W-9DC	1	1947	35.65	5-26-49	40.90	10-19-71	37.10	10-15-73	0.18	2.60
5N-10W-28BD	1	1948	120.82	6-1-48	131.20	10-19-71	130.55	10-16-73	-8.05	-0.05
5N-11W-25AC	1	1948	89.61	10-24-51	97.20	10-17-72	96.60	10-16-73	-6.60	0.60
5N-12W-8DD	1	1963	97.80	10-20-70	101.58	5-17-67	101.30	10-16-73	-5.30	0.10
6N-9W-4CB	1	1947	102.62	6-17-52	112.80	10-15-73	112.80	10-15-73	-9.80	-3.50
6N-10W-23BB	1	1936	2.05	5-26-49	10.43	4-12-37	5.65	10-16-73	0.35	2.15
6N-11W-17CB	1	1968	78.86	6-15-70	97.95	8-20-71	83.06	10-9-73	-6.06	-0.13
6N-11W-22CC	1	1950	90.26	10-24-51	97.80	10-19-71	97.50	10-16-73	-7.24	0.10
6N-12W-12DB	1	1948	98.31	10-24-51	103.22	10-30-68	103.00	10-16-73	-3.30	-0.70
7N-9W-16BA	1	1948	116.02	4-26-49	137.02	5-17-67	131.40	10-15-73	-15.40	-1.40
7N-10W-23AB	1	1934	99.95	3-14-35	121.73	7-25-72	115.92	10-9-73	-13.92	-0.52
7N-10W-29CC	1	1952	85.56	10-7-52	94.65	10-16-73	94.65	10-16-73	-9.15	-0.15
7N-12W-15CA	1	1947	94.63	12-16-54	100.10	10-20-71	99.60	10-16-73	-3.60	0.10
8N-9W-14AC	1	1948	107.78	6-17-52	120.25	10-20-71	119.95	10-15-73	-10.45	0.15
8N-10W-26DA	1	1948	96.10	8-22-51	111.75	10-20-71	110.97	10-15-73	-13.97	-0.37
8N-11W-13AA	1	1947	88.77	9-25-50	98.10	10-15-73	98.10	10-15-73	-7.10	-0.20
ANTELOPE COUNTY										
23N-6W-8BB	1	1964	92.46	1-13-65	96.83	10-25-73	96.83	10-25-73	-4.33	-0.48
23N-6W-28DC	1	1968	103.77	5-5-70	110.90	8-20-73	106.45	10-5-73	-4.45	-0.37
23N-7W-5DBDD1	1	1968	76.73	6-19-68	80.25	10-25-73	80.25	10-25-73	-3.75	-0.67
24N-5W-5BB	1	1951	24.60	11-8-51	29.78	11-14-56	27.38	10-24-73	-1.78	2.08
25N-6W-27BB	1	1951	15.83	8-31-51	22.05	11-14-56	17.49	10-25-73	1.41	0.82
25N-7W-3DB	1	1951	7.05	8-31-51	14.01	10-14-71	11.39	10-25-73	0.61	0.66
25N-8W-14AA	1	1964	12.48	6-29-67	15.34	10-20-70	12.60	10-25-73	1.40	1.20
27N-5W-17AAA	1	1969	29.12	1-9-74	93.45	1-15-72	91.58	10-5-73	-1.58	1.25
27N-6W-29CA	1	1967	92.80	10-21-69	104.99	10-3-72	104.37	10-25-73	-3.87	0.62
28N-8W-9DD	1	1961	3.02	10-25-73	16.55	10-27-69	3.02	10-25-73	0.98	1.98

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH			LOW			1973			DEPARTURE FROM ASSUMED NORMAL	CHANGE FROM PREVIOUS FALL
		WATER LEVEL	DATE	DATE	WATER LEVEL	DATE	DATE	WATER LEVEL	DATE	DATE		
BANNER COUNTY												
19N-54W-15BC	1	1949	30.49	10-16-62	35.48	10-17-72	33.56	10-25-73	-1.06	1.92		
BLAINE COUNTY												
22N-24W-33CA	1	1934	1.04	3-8-50	6.97	8-8-51	3.24	10-9-73	0.76	1.60		
24N-25W-7AA	1	1936	3.42	11-25-36	6.56	8-31-54	5.28	10-9-73	0.22	-0.03		
BOONE COUNTY												
18N-7W-4CA	1	1936	8.57	5-4-73	15.17	10-26-40	11.08	10-25-73	3.42	-0.26		
19N-7W-9AD	1	1967	234.85	11-30-67	237.46	10-21-71	236.68	10-25-73	-1.68	0.23		
19N-8W-18AA	1	1960	7.40	4-11-60	13.74	5-17-61	10.84	10-25-73	0.16	-0.78		
20N-6W-23BB	1	1948	28.15	7-25-50	35.75	10-21-71	35.24	10-25-73	-4.24	0.42		
21N-7W-26CA	1	1936	14.13	8-22-50	21.07	10-14-38	15.62	10-25-73	1.08	0.47		
22N-7W-23DACD1	1	1968	69.72	10-17-68	77.54	6-19-68	74.84	10-25-73	-2.84	0.10		
BOX BUTTE COUNTY												
24N-47W-1DB	1	1946	11.14	3-25-48	15.05	10-20-72	13.88	10-29-73	-2.18	1.17		
24N-48W-4BB	1	1946	13.32	4-11-46	36.68	10-29-73	36.68	10-29-73	-22.68	-0.86		
24N-48W-11DD	1	1946	0.91	5-11-49	8.04	10-13-56	7.06	10-29-73	-1.06	0.90		
25N-48W-4DDD	1	1946	63.14	1-25-50	91.46	10-29-73	91.46	10-29-73	-27.96	-2.17		
25N-48W-12CC	1	1968	54.73	6-30-68	66.42	8-31-73	62.35	10-5-73	-45.35	1.29		
25N-48W-25BB	1	1946	70.76	3-29-46	100.79	10-29-73	100.79	10-29-73	-26.29	-0.97		
25N-48W-27DB	1	1946	67.90	5-13-46	96.73	10-29-73	96.73	10-29-73	-28.23	-0.97		
26N-47W-17DD	1	1946	52.35	5-11-49	92.90	10-23-70	89.56	10-30-73	-35.56	-4.12		
26N-47W-35DD	1	1946	11.83	3-26-48	16.27	10-27-64	15.80	10-30-73	-2.80	0.26		
26N-49W-6CC	1	1969	136.48	9-30-69	141.74	12-15-73	141.23	10-5-73	-7.23	-0.93		
26N-49W-30DD	1	1967	137.07	11-1-67	143.54	10-23-70	141.84	10-30-73	-4.84	0.26		
28N-51W-6DD	2	1953	2.37	3-21-53	4.73	9-19-54	3.66	10-30-73	-1.16	0.56		

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH			LOW			1973			DEPARTURE FROM ASSUMED NORMAL		CHANGE FROM PREVIOUS FALL	
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	DATE	FROM ASSUMED NORMAL	DATE	FROM PREVIOUS FALL	
BOYD COUNTY														
32N-10W- 1CC	1	1934	7.39	9-21-66	10.18	10-30-40	9.75	10- 3-73	-0.75	10- 3-73	0.28			
33N- 9W-24BB	1	1961	2.28	7-17-62	12.76	10-16-68	8.79	10- 3-73	3.21	10- 3-73	1.27			
33N-10W-23AB	1	1961	7.96	7-17-62	12.29	10-16-68	9.99	10- 3-73	2.01	10- 3-73	0.02			
33N-11W-15AA	1	1961	5.70	6-27-62	10.54	10-14-69	9.38	10- 3-73	0.62	10- 3-73	0.44			
33N-13W- 9CA	1	1934	6.83	7-17-62	19.08	10-31-40	13.06	10- 2-73	3.94	10- 2-73	1.76			
34N-12W-35DC	1	1961	12.62	10-10-72	18.20	9-21-66	15.94	10- 2-73	2.06	10- 2-73	-3.32			
34N-13W-21BD	1	1961	18.19	10- 2-73	46.54	9-29-61	18.19	10- 2-73	11.81	10- 2-73	0.47			
BROWN COUNTY														
29N-21W-17CC	1	1950	0.23	6-15-54	4.71	10-22-70	2.10	10-23-73	-1.10	10-23-73	1.53			
29N-22W-15DCD	1	1950	1.88	1-17-52	7.57	10-22-70	5.22	10-23-73	-0.72	10-23-73	1.46			
29N-23W- 1BB	1	1950	2.33	10- 5-51	7.31	9-13-55	3.43	10-23-73	0.97	10-23-73	2.15			
30N-21W-19CC	1	1947	34.39	1- 4-74	40.96	9- 7-65	35.18	10- 5-73	0.82	10- 5-73	1.48			
30N-22W-11BB	1	1953	50.59	10-23-73	65.85	2-23-67	50.59	10-23-73	10.41	10-23-73	3.41			
30N-22W-16CD	1	1947	31.87	10-23-73	43.84	10-21-59	31.87	10-23-73	9.13	10-23-73	3.24			
30N-22W-23DC	1	1948	35.02	4- 4-52	38.78	11-16-60	35.59	10-23-73	0.41	10-23-73	0.79			
30N-22W-27DC	1	1934	12.40	7- 5-51	19.11	9-13-55	15.48	10-23-73	-0.08	10-23-73	0.78			
30N-23W-13BC	1	1941	30.29	10-23-73	40.04	8- 9-50	30.29	10-23-73	6.21	10-23-73	1.93			
30N-23W-21BC	1	1950	0.06	10-23-73	4.18	7-20-66	0.06	10-23-73	2.44	10-23-73	1.54			
30N-24W-15AA	1	1950	77.96	11-17-52	80.24	10-18-72	79.98	10-23-73	-0.98	10-23-73	0.26			
BUFFALO COUNTY														
8N-14W- 6CC	1	1965	0.84	6-27-73	5.69	5-22-65	3.22	11- 9-73	0.28	11- 9-73	0.65			
8N-15W- 8BA	1	1947	12.12	3-29-47	17.36	10-19-56	14.55	11- 9-73	-1.55	11- 9-73	1.61			
8N-16W- 3CB	1	1946	10.00	5- 7-58	13.85	10-28-68	11.34	11- 8-73	1.66	11- 8-73	1.14			
8N-17W- 2ADD	1	1965	6.80	8-26-71	16.08	1-21-65	11.54	11- 8-73	3.46	11- 8-73	1.41			
8N-18W- 3AB	1	1947	8.85	5- 7-51	15.44	10-14-71	13.47	11- 8-73	-4.47	11- 8-73	1.73			
9N-13W- 9CC	1	1930	10.87	7- 5-49	23.25	10-19-56	14.00	11- 9-73	0.0	11- 9-73	4.11			
9N-14W- 1DC	1	1946	15.36	6-11-52	27.22	8-25-57	22.78	10- 5-73	-5.78	10- 5-73	1.42			

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM PREVIOUS FALL	
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	ASSUMED NORMAL	CHANGE FROM PREVIOUS FALL
BUFFALO COUNTY (CONTINUED)									
9N-14W-19DD	1	22.55	6- 9-31	34.81	8-27-64	30.45	11- 9-73	-5.95	1.40
9N-15W-11CB	1	23.67	7-11-47	40.67	8-27-64	35.06	11- 9-73	-9.06	1.81
9N-16W- 6BC	1	86.36	5- 3-66	96.52	7-25-72	92.35	11- 8-73	-10.35	1.45
9N-16W-13DB	1	35.39	4-12-66	50.51	8-26-71	43.30	11- 9-73	-10.30	2.14
9N-17W-19CD	1	123.13	4-11-66	131.85	8-16-73	130.77	11- 8-73	-13.77	-0.21
9N-17W-31CD	1	8.02	10- 7-46	15.27	4-27-65	13.17	11- 8-73	-2.67	1.51
9N-18W-30AB	1	2.90	4-13-49	15.15	10-18-72	13.14	11- 8-73	-7.34	2.01
10N-13W- 6BAAB	1	92.77	5-20-71	93.79	10-17-72	93.19	11- 9-73	-0.19	0.60
10N-13W-21CC	1	24.67	3- 3-52	37.48	10-17-72	33.47	11- 9-73	-6.67	4.01
10N-15W-16ABC	1	107.18	5-15-73	110.85	10-17-72	110.55	11- 9-73	-10.55	0.30
10N-16W- 5DC	1	108.65	7- 3-69	116.43	8-31-72	115.88	10- 5-73	-8.88	0.18
10N-17W-21CD	1	27.23	3-27-50	32.37	9-21-55	31.87	11- 8-73	-2.17	-0.15
10N-18W-31BA	1	133.09	6-14-68	138.88	10-18-72	138.13	11- 8-73	-13.13	0.75
11N-13W-13BBB	1	128.34	5-15-73	129.09	10-17-72	128.76	11- 9-73	-1.76	0.33
11N-14W-22AD	1	54.91	11- 9-73	57.37	10-15-71	54.91	11- 9-73	0.09	2.13
11N-15W- 9ABBB	1	52.74	5-19-71	55.38	10-17-72	53.42	11- 9-73	-3.42	1.96
11N-17W- 9CDD	1	44.46	5-19-71	46.34	10-18-72	45.65	11- 8-73	-1.65	0.69
12N-13W-20CB	1	24.17	11- 9-73	26.87	11-14-66	24.17	11- 9-73	1.13	1.75
12N-15W- 3BB	1	29.05	5- 9-52	35.46	10-17-72	30.92	11- 9-73	-1.02	4.54
12N-18W-32DAAA	1	134.53	5-19-71	137.95	10-18-72	137.35	11- 8-73	-12.35	0.60
BURT COUNTY									
20N-11E- 6CC	1	5.12	10-25-73	8.32	10-21-70	5.12	10-25-73	1.88	0.45
22N- 8E-35DC	1	4.41	6-22-64	11.85	10-21-70	5.97	10-25-73	1.03	2.69
23N- 8E-13CDD	1	9.45	6-29-67	17.97	5-14-68	14.59	10-25-73	0.41	1.26
BUTLER COUNTY									
13N- 1E-18BAB	1	84.60	5-19-70	88.73	10-18-68	86.17	10-19-73	-0.67	0.94
13N- 2E-30BC	1	58.89	6-18-53	67.42	10-20-71	64.76	10-19-73	-4.76	2.09
14N- 1E- 9ADDD	1	88.79	5-28-69	94.39	10-20-71	91.57	10-19-73	-1.57	1.57

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM		CHANGE FROM	
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	ASSUMED NORMAL	PREVIOUS FALL	ASSUMED NORMAL	PREVIOUS FALL
(CONTINUED)											
BUTLER COUNTY											
14N- 2E- 9CCA 1	1958	20.12	5-14-73	32.17	1- 3-58	21.43	10-19-73	3.57		5.14	
14N- 3E-16BCBA1	1968	116.90	5- 2-68	145.28	10-20-71	135.32	10-19-73	-20.32		8.49	
15N- 1E-27DD 1	1958	87.89	10- 8-73	108.63	7-23-61	87.89	10- 8-73	3.11		4.20	
16N- 2E-14CC 1	1946	2.20	10-18-65	10.51	11-29-56	3.72	10-19-73	1.78		3.11	
16N- 3E- 1DC 1	1946	6.69	10-18-65	16.64	8-22-68	8.76	10-19-73	3.24		2.34	
17N- 4E-28CD 1	1946	18.37	10-18-65	25.01	8-22-68	20.99	10-19-73	0.21		0.12	
CASS COUNTY											
11N- 9E-32CDBC1	1973	31.09	11- 8-73	31.09	11- 8-73	31.09	11- 8-73	5.91	NO RECORD		
13N-13E-31CAA 1	1967	2.51	5- 5-72	35.11	1-30-68	4.41	11- 5-73	-1.91		1.30	
CEDAR COUNTY											
31N- 2E-31CC 1	1967	8.98	10-15-69	10.56	10-27-71	10.42	10-25-73	-1.22		-0.16	
CHASE COUNTY											
5N-36W- 7BA 1	1946	10.20	3-20-69	DRY	10-23-73	DRY	10-23-73			0.16	
5N-38W- 4AA 1	1949	10.04	5-29-64	13.55	6-26-58	12.50	10-12-73	-1.30		0.16	
6N-41W-21CCC 1	1972	32.02	4- 5-72	36.83	9- 5-73	34.91	10- 5-73	-4.91		-0.50	
7N-38W-29CBB 1	1964	55.87	7- 4-64	72.77	9- 5-73	69.71	10- 5-73	-13.71		-1.37	
7N-40W-28BBB 1	1952	45.49	6- 5-52	57.65	10-23-73	57.65	10-23-73	-11.65		-0.48	
7N-41W-11DAA 1	1973	57.74	1-29-74	61.74	9-27-73	61.12	10- 5-73	-11.12	NO RECORD		
CHERRY COUNTY											
25N-28W- 1CC 1	1961	6.98	10-31-63	9.20	10-19-70	8.02	10- 9-73	-1.02		1.08	
28N-28W- 1CC 1	1950	1.05	2- 5-54	8.10	1-11-71	5.32	10- 9-73	-1.32		1.93	
29N-28W- 1AA 1	1961	0.32	10-31-63	2.70	10- 6-69	1.58	10- 9-73	-0.58		0.36	
29N-28W-13AA 1	1949	0.61	6-16-54	6.50	1-11-71	3.46	10- 9-73	0.54		1.84	
31N-25W-21BD 1	1935	0.10	3-27-52	6.38	9-12-36	2.98	10-11-73	1.02		2.42	

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM		CHANGE FROM PREVIOUS FALL
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	ASSUMED NORMAL	PREVIOUS FALL	
CHERRY COUNTY (CONTINUED)										
31N-30W-29CA	1	1950	62.23	2-11-70	96.43	10-10-50	65.68	10-10-73	29.02	-1.11
32N-27W-18CB	1	1949	5.25	10-18-62	9.98	10-20-69	6.78	10-9-73	-0.28	2.57
32N-27W-30CC	1	1950	1.68	9-12-51	6.46	10-19-70	2.68	10-9-73	0.72	3.47
34N-27W-31DA	1	1934	97.89	11-22-57	101.62	10-18-71	100.44	10-10-73	-2.24	0.40
34N-36W-1DC	1	1934	4.46	6-6-35	9.54	10-1-41	5.85	10-10-73	1.65	0.20
34N-38W-14BC	1	1936	5.20	4-2-52	8.14	8-9-37	6.25	10-10-73	0.75	0.93
CHEYENNE COUNTY										
13N-50W-3CB	1	1951	46.29	5-23-52	62.90	10-25-73	62.90	10-25-73	-15.40	-6.89
13N-51W-10AA	1	1951	36.27	11-15-67	44.90	10-25-73	44.90	10-25-73	-7.40	-0.78
14N-47W-28CB	1	1951	11.73	5-29-52	14.72	9-24-64	13.22	10-26-73	-0.12	1.36
14N-48W-27CC	1	1950	33.47	3-29-51	42.40	10-10-56	39.57	10-26-73	-5.57	0.73
14N-49W-34BB	1	1950	24.27	3-29-51	26.13	10-26-73	26.13	10-26-73	-1.63	-0.04
14N-50W-27CC	1	1950	13.87	5-23-52	18.70	10-25-73	18.70	10-25-73	-3.50	0.0
14N-50W-35AC	1	1934	29.16	7-18-35	40.87	9-24-64	36.56	10-25-73	-5.56	1.44
14N-52W-5CB	1	1934	23.52	10-25-73	32.07	10-11-56	23.52	10-25-73	4.98	0.91
14N-52W-11AC	1	1950	24.98	10-19-70	48.36	10-11-56	25.72	10-25-73	3.68	0.03
16N-49W-19BBB	1	1971	220.43	2-16-73	221.80	1-25-72	221.39	10-5-73	-0.39	0.06
CLAY COUNTY										
5N-5W-11BA	1	1954	77.83	6-24-54	89.71	10-12-72	89.50	10-24-73	-12.50	0.21
5N-5W-20AA	1	1958	70.80	4-5-59	79.25	10-12-72	78.39	10-24-73	-6.39	0.86
5N-6W-21DD	1	1954	78.41	8-20-54	88.32	10-12-72	86.86	10-24-73	-9.86	1.46
5N-7W-21CA	1	1972	80.49	10-21-52	86.85	5-18-67	84.11	10-24-73	-4.11	1.81
5N-8W-1AC	1	1953	87.06	10-22-53	94.50	10-21-67	92.84	10-24-73	-5.84	0.41
5N-8W-26DD	1	1954	92.13	10-24-73	93.80	8-13-54	92.13	10-24-73	-0.13	0.61
6N-5W-26BC	1	1958	95.60	11-23-58	106.59	10-13-72	106.40	10-24-73	-16.40	0.19
6N-6W-1CB	1	1970	86.49	5-28-70	92.89	10-6-71	89.26	10-24-73	-7.26	1.64
6N-7W-23BB	1	1958	90.20	4-5-59	95.09	10-5-71	93.78	10-24-73	-17.78	0.83
6N-8W-17BB	1	1952	95.53	6-24-54	104.60	10-15-73	104.60	10-15-73	-6.60	-0.90

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE		CHANGE FROM PREVIOUS FALL
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	FROM ASSUMED NORMAL	FROM PREVIOUS FALL	
(CONTINUED)										
CLAY COUNTY										
6N- 8W-21DD	1	1968	96.03	6-15-70	102.45	8-25-71	99.74	10- 9-73	-6.74	0.34
7N- 5W-22BC	1	1958	101.10	4- 5-59	126.24	10-20-71	123.50	10-25-73	-28.00	-0.75
7N- 6W-23AA	1	1954	54.33	7-22-54	66.29	10-20-71	66.15	10-25-73	-12.15	-0.23
7N- 6W-30CC	1	1954	78.80	11- 7-54	99.80	11- 7-67	87.41	10-25-73	-10.41	0.79
7N- 8W- 7DD	2	1971	110.93	4-18-72	112.24	10-16-72	111.96	10-25-73	-10.96	0.28
8N- 5W-22BC	1	1971	81.93	5- 4-71	85.72	10-25-73	85.72	10-25-73	-23.72	-0.19
8N- 6W-12BB	1	1953	76.80	4-28-53	91.43	10-20-71	90.40	10-25-73	-13.40	0.70
8N- 7W-23BB	1	1968	85.85	6-15-70	100.35	7-31-70	93.71	10- 8-73	-14.71	0.12
8N- 7W-26BA	1	1954	74.95	10-21-54	87.49	10-20-71	86.92	10-25-73	-12.92	0.44
8N- 8W-10BB	1	1958	95.70	3-10-63	106.47	10-25-73	106.47	10-25-73	-16.47	-0.86
8N- 8W-36BA	1	1970	75.66	5- 3-71	78.23	10-21-71	77.57	10-25-73	-10.57	0.55
COLFAX COUNTY										
17N- 2E-22DD	1	1946	3.20	11-19-65	8.25	11-28-56	4.63	10-23-73	0.67	0.60
17N- 3E- 4CC	1	1946	4.15	4- 1-52	8.40	9- 5-46	5.38	10-23-73	0.42	0.73
17N- 3E-11DD	1	1945	6.60	7- 7-47	13.57	10-25-71	11.21	10-23-73	-1.81	0.35
17N- 3E-29AA	2	1968	6.41	3-10-71	10.75	8-15-70	9.10	10- 5-73	-1.60	-0.46
17N- 4E- 4BB	1	1945	9.38	10-12-65	18.90	11-28-56	13.07	10-23-73	0.93	4.28
CUMING COUNTY										
21N- 5E-23DCC	1	1964	3.90	6-30-67	9.33	10-30-72	6.51	10-23-73	-1.01	2.82
21N- 7E-32DDC	1	1964	4.09	10-23-73	8.07	8-24-64	4.09	10-23-73	1.91	2.24
22N- 6E- 4AA	1	1950	7.51	9- 1-51	11.24	11-13-56	9.84	10-23-73	-0.84	0.87
22N- 6E-16CA	1	1951	1.99	11- 7-51	10.22	10-26-71	8.30	10-23-73	-1.80	0.75
22N- 6E-34BD	1	1950	3.78	1-30-52	7.97	10-27-58	6.95	10-23-73	-1.95	-0.82
23N- 5E-36BD	1	1950	8.28	8-29-51	13.54	10-26-71	10.28	10-23-73	0.22	1.53
23N- 6E-18CBC	1	1964	14.70	6-29-67	19.18	5-14-68	18.20	10-23-73	-1.70	-0.13
24N- 4E-30AD	1	1950	7.57	8-29-51	13.33	3-13-57	10.41	10-23-73	0.09	0.62

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM ASSUMED NORMAL	CHANGE FROM PREVIOUS FALL
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE		
CUSTER COUNTY									
13N-21W-36CA	1	50.34	11-15-66	55.43	10-14-58	54.30	10- 3-73	-2.80	-0.40
17N-18W- 6BB	1	74.17	5-19-71	78.43	10- 4-73	78.43	10- 4-73	-10.43	-1.37
17N-24W-30CA	1	20.00	7-31-52	30.59	10-25-72	30.40	10-17-73	-10.40	0.19
17N-25W-35BC	1	19.78	5-18-69	20.89	10-29-70	20.00	10-17-73	0.0	0.73
18N-17W- 4AC	1	9.80	10- 4-73	15.10	10-27-70	9.80	10- 4-73	2.70	1.21
18N-22W-24CCCC	1	69.10	8- 2-72	75.49	8-25-73	71.62	10- 5-73	-3.62	-0.62
19N-19W- 2BB	1	9.20	10-15-73	19.41	9- 1-54	9.20	10-15-73	7.80	NO RECORD
19N-19W-33CB	1	95.61	5-19-71	99.85	10-14-71	99.53	10- 3-73	-3.53	-1.58
20N-17W- 3BD	1	79.16	10-16-73	80.66	9-24-51	79.16	10-16-73	1.34	0.64
20N-18W-28DA	1	51.20	10-15-73	83.00	10-23-59	51.20	10-15-73	25.80	NO RECORD
20N-19W-31CB	1	24.20	10-12-66	32.14	3-14-51	27.00	10-15-73	4.50	NO RECORD
20N-20W-29BB	1	29.10	10- 6-69	34.22	4- 5-54	29.27	10- 3-73	4.23	1.14
20N-21W-10BC	1	17.78	7-16-53	22.81	8-26-55	20.53	10- 3-73	0.47	NO RECORD
DAKOTA COUNTY									
28N- 8E-25CC	1	20.21	10-15-69	22.35	10-23-68	20.81	10-25-73	-0.31	-0.43
DAWES COUNTY									
29N-47W- 2DCA	1	79.32	11-12-52	83.38	10- 8-59	81.78	11-13-73	-1.28	0.46
31N-52W- 3DC	1	15.87	5-30-48	22.28	10-31-56	18.06	10-23-73	1.44	0.93
DAWSON COUNTY									
9N-19W-22BA	1	17.79	3-29-47	28.35	10-18-72	27.18	11- 8-73	-8.38	1.17
9N-20W- 5BC	1	18.45	7- 1-47	27.67	10-13-71	26.37	11- 8-73	-5.37	0.78
9N-20W-25BB	1	3.71	4-16-49	10.25	10-18-72	8.68	11- 8-73	-3.68	1.57
9N-20W-33DD	1	1.93	5-18-71	DRY	10-16-68	2.67	5-14-73	1.03	1.89
9N-21W-19AA	1	1.45	10- 8-46	7.75	10-18-72	5.06	11- 7-73	-1.06	2.69
9N-21W-24AA	1	1.69	10- 6-65	7.15	12-28-55	6.20	11- 8-73	-2.50	0.92
9N-21W-31DD	1	4.16	10- 8-46	19.82	11- 5-40	5.54	11- 7-73	9.46	2.36



TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM		CHANGE FROM PREVIOUS FALL
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	ASSUMED NORMAL	PREVIOUS FALL	
DAWSON COUNTY (CONTINUED)										
9N-22W-33AA	1	1949	23.40	10-22-70	33.71	8- 5-49	23.55	10-26-73	10.45	0.35
9N-23W- 2DC	1	1945	13.73	10- 6-65	17.55	7-12-46	15.30	10-26-73	1.70	0.70
9N-23W-21BB	1	1949	150.15	10-22-70	170.74	5-11-49	150.60	10-26-73	19.40	0.30
9N-24W- 1DC	1	1946	8.65	11- 2-63	17.90	9- 7-46	10.90	10-26-73	6.10	0.30
10N-20W-21CB	1	1946	22.33	7-12-47	33.35	10-18-72	31.41	11- 8-73	-6.91	1.94
10N-21W-18DDD	1	1964	9.74	10-29-65	17.53	7-31-72	14.68	10- 5-73	-3.68	1.68
10N-22W-29AA	1	1931	1.52	7-12-47	8.88	10-19-72	7.98	11- 7-73	-2.48	0.90
10N-23W- 5BB	1	1945	4.29	12- 4-46	10.99	12-28-55	7.98	11- 7-73	-1.38	1.61
10N-23W-29BB	1	1946	2.02	10- 9-46	9.10	10-22-70	6.05	10-26-73	0.45	2.55
10N-24W- 7BB	1	1946	10.35	10- 9-46	13.52	7-12-46	12.55	10-26-73	-0.25	0.65
11N-19W- 4DD	1	1948	47.39	10-24-69	62.47	8-26-53	57.41	11- 8-73	-2.11	1.10
11N-23W-23CC	1	1946	0.42	10- 8-46	7.43	10- 3-58	0.86	11- 7-73	2.54	3.90
11N-24W-20CA	1	1932	9.52	7-12-47	15.91	12-28-55	11.96	11- 7-73	-0.26	2.39
12N-22W-33AC	1	1950	67.44	11-29-67	71.40	10-14-58	70.32	11- 7-73	-0.42	0.93
12N-25W-34CC	1	1932	26.80	8- 8-51	35.45	10-13-71	34.75	11- 7-73	-6.75	0.09
DEUEL COUNTY										
12N-43W-24BB	1	1947	21.12	4-17-51	25.15	11-14-69	23.36	10-26-73	-0.66	1.56
12N-44W-18BB	1	1950	10.11	9-21-65	12.13	10-10-56	11.16	10-26-73	-0.66	0.37
13N-42W-36CB	1	1947	2.29	3-15-48	8.98	10-18-72	6.84	10-26-73	-1.64	2.14
13N-45W-23DC	1	1950	11.84	11-19-51	17.23	10-26-73	17.23	10-26-73	-5.23	-0.51
14N-46W-33DC	2	1950	13.19	9-30-58	16.66	10-10-56	15.50	10-26-73	-1.80	-0.10
DODGE COUNTY										
17N- 5E- 2BB	1	1946	2.12	5- 3-51	5.98	11-28-56	3.38	10-23-73	0.32	0.17
17N- 6E- 6AA	1	1936	0.31	5- 3-51	5.18	10-13-69	1.72	10-23-73	0.58	0.73
17N- 8E- 4DD	1	1940	3.70	7- 7-47	14.90	10-25-71	10.97	10-23-73	-3.27	3.46
18N- 5E-23BB	1	1946	4.88	6-24-64	8.73	10-11-46	7.57	10-23-73	-0.57	0.29
18N- 6E- 5CDBD1	1	1968	70.05	6-18-68	72.73	10-30-72	71.85	10-23-73	-6.85	0.88
18N- 6E-25CC	1	1947	3.98	5- 3-51	16.82	7-26-55	6.41	10-23-73	2.59	1.14

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH			LOW			1973			DEPARTURE FROM		CHANGE FROM PREVIOUS FALL
		WATER LEVEL	DATE	DATE	WATER LEVEL	DATE	DATE	WATER LEVEL	DATE	DATE	ASSUMED NORMAL	PREVIOUS FALL	
DODGE COUNTY (CONTINUED)													
18N-7E-3DBC1	1968	18.50	5-14-69	10-30-72	22.21	10-30-72	20.71	10-23-73	10-23-73	10-23-73	-3.71	1.50	
18N-8E-28DA	1940	60.86	10-8-41	10-30-72	71.36	10-30-72	70.39	10-23-73	10-23-73	10-23-73	-5.39	0.97	
19N-6E-22AAA	1964	5.29	10-18-65	10-19-70	23.59	10-19-70	14.75	10-23-73	10-23-73	10-23-73	2.25	7.82	
19N-8E-34BA	1950	64.59	11-6-51	3-13-57	74.31	3-13-57	70.08	10-23-73	10-23-73	10-23-73	1.42	0.80	
20N-6E-14BBD	1963	4.88	6-30-67	10-25-71	9.05	10-25-71	6.60	10-23-73	10-23-73	10-23-73	0.40	1.35	
20N-8E-4CCB	1963	17.28	10-23-68	10-19-70	22.91	10-19-70	20.36	10-25-73	10-25-73	10-25-73	-1.36	2.07	
20N-8E-32CCC	1964	41.45	8-24-64	10-23-73	54.17	10-23-73	54.17	10-23-73	10-23-73	10-23-73	-7.17	-2.00	
DOUGLAS COUNTY													
52 16N-10E-5CCC	1964	2.77	9-18-65	10-27-71	8.53	10-27-71	5.28	10-25-73	10-25-73	10-25-73	-0.28	0.25	
DUNDY COUNTY													
1N-37W-31CD	1946	3.21	4-5-49	9-23-64	7.68	9-23-64	6.44	10-15-73	10-15-73	10-15-73	-1.14	0.76	
1N-38W-29AD	1946	7.03	4-21-50	10-5-54	10.10	10-5-54	9.10	10-15-73	10-15-73	10-15-73	-0.70	0.50	
1N-40W-29BB	1946	10.12	8-23-50	9-15-71	18.36	9-15-71	17.44	10-5-73	10-5-73	10-5-73	-5.44	0.27	
1N-41W-27CA	1946	2.86	2-8-49	7-25-55	6.25	7-25-55	5.04	10-15-73	10-15-73	10-15-73	-0.54	0.38	
1N-42W-13BB	1946	3.10	12-28-66	8-8-72	6.20	8-8-72	5.62	10-15-73	10-15-73	10-15-73	-1.22	0.41	
2N-36W-31BC	1946	18.83	6-3-52	9-11-56	22.98	9-11-56	20.58	10-15-73	10-15-73	10-15-73	0.72	1.95	
2N-38W-10DD	1972	85.16	5-8-73	9-5-73	88.88	9-5-73	87.85	10-5-73	10-5-73	10-5-73	-3.85	-0.89	
4N-38W-30BCC	1972	46.69	9-28-72	9-10-73	48.62	9-10-73	48.32	10-5-73	10-5-73	10-5-73	-2.32	-0.46	
FILLMORE COUNTY													
5N-1W-16BB	1955	39.84	10-23-73	10-25-68	47.78	10-25-68	39.84	10-23-73	10-23-73	10-23-73	4.16	3.90	
5N-2W-28DC	1954	62.34	12-13-54	10-23-73	73.55	10-23-73	73.55	10-23-73	10-23-73	10-23-73	-11.55	-0.29	
5N-3W-22AB	1955	93.75	7-8-55	10-23-73	109.51	10-23-73	109.51	10-23-73	10-23-73	10-23-73	-16.51	-0.39	
5N-4W-12BC	1956	73.13	6-15-57	9-11-73	87.15	9-11-73	86.94	10-9-73	10-9-73	10-9-73	-13.44	-0.35	
5N-4W-33BB	1954	81.36	12-14-54	10-9-72	95.82	10-9-72	95.52	10-23-73	10-23-73	10-23-73	-14.52	0.30	
6N-2W-23BB	1956	77.23	3-9-56	10-9-72	91.50	10-9-72	91.05	10-23-73	10-23-73	10-23-73	-14.05	0.45	
6N-3W-25AD	1954	78.80	3-15-55	10-23-73	97.55	10-23-73	97.55	10-23-73	10-23-73	10-23-73	-19.55	-0.31	

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM		CHANGE FROM PREVIOUS FALL
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	ASSUMED NORMAL	PREVIOUS FALL	
FILLMORE COUNTY (CONTINUED)										
6N-4W-15BB	1	73.22	6-30-56	85.49	10-23-73	85.49	10-23-73	-13.49		-0.05
7N-1W-19AA	2	60.70	5-8-73	113.17	8-6-73	78.78	10-5-73	-21.78		-13.88
7N-2W-15BA	1	79.65	7-4-56	98.83	10-19-71	98.57	10-23-73	-19.57		-1.55
7N-3W-19BB	1	82.00	8-10-55	108.84	10-20-71	107.84	10-23-73	-25.84		-0.67
7N-4W-17BD	1	74.96	3-15-55	102.38	10-23-73	102.38	10-23-73	-27.38		-0.82
8N-1W-10AD	1	83.03	3-15-55	100.44	10-19-71	99.94	10-23-73	-17.94		-0.41
8N-2W-5CB	1	91.79	1-12-56	103.56	10-9-72	103.08	10-23-73	-11.08		0.48
8N-3W-31AC	1	79.35	5-7-56	99.97	10-23-73	99.97	10-23-73	-20.97		-0.57
8N-4W-5AB	1	85.82	4-13-53	94.23	10-21-71	92.82	10-23-73	-6.32		0.45
FRANKLIN COUNTY										
1N-13W-2BC	1	5.94	6-22-49	9.70	10-3-66	8.80	10-24-73	-0.40		0.40
1N-16W-14AB	1	34.70	1-14-65	42.10	10-7-48	37.70	10-15-73	2.30		1.40
2N-14W-33DD	1	1.90	8-5-69	10.02	9-22-53	2.40	10-22-73	3.60		2.50
3N-14W-14AB	1	164.19	11-7-67	165.80	10-16-73	165.80	10-16-73	-2.80		-0.60
4N-13W-13BCD	1	115.10	5-4-70	119.85	10-16-73	119.85	10-16-73	-4.85		-0.25
4N-14W-23CC	1	170.21	4-30-69	185.80	8-25-73	176.30	10-5-73	-6.30		-1.07
FRONTIER COUNTY										
7N-27W-34CB	1	50.76	8-23-35	60.49	10-17-69	59.61	10-22-73	-6.61		0.45
8N-28W-21AA	1	144.15	11-4-66	149.29	9-22-61	148.85	10-22-73	-4.35		-0.95
8N-30W-13AA	1	165.15	10-30-62	167.90	3-10-60	165.87	10-22-73	0.13		0.16
FURNAS COUNTY										
2N-22W-22AA	1	21.67	4-9-66	27.33	11-29-64	23.75	12-3-73	-0.75	NO RECORD	
2N-24W-29DA	1	25.18	11-12-69	31.85	11-1-71	31.77	12-3-73	-2.77		-0.34
2N-25W-28CB	1	23.00	4-9-66	30.25	10-17-72	28.00	12-3-73	-1.00		2.25
3N-21W-12DC	1	2.50	6-28-60	8.58	11-3-55	4.30	10-19-73	1.20		1.70
3N-22W-2BA	1	4.20	12-8-66	14.80	3-6-72	4.80	10-19-73	3.60		0.10

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	DEPARTURE FROM ASSUMED NORMAL	CHANGE FROM PREVIOUS FALL
		WATER LEVEL	DATE	WATER LEVEL	DATE								
(CONTINUED)													
FURNAS COUNTY													
3N-25W-4BB	1	1946	3.37	10-26-65	7.37	10-3-46	4.80	10-17-73	0.80	1.46			
3N-25W-17BA	1	1960	139.50	4-19-73	149.00	10-3-60	142.33	12-3-73	0.67	1.42			
4N-22W-14BBB	1	1960	147.45	5-5-70	161.45	12-6-60	160.45	10-18-73	-5.45	NO RECORD			
4N-22W-20CD	1	1950	7.10	3-5-70	17.98	5-15-51	9.10	10-19-73	6.90	0.60			
4N-23W-23BD	1	1936	26.10	10-10-66	30.89	9-13-43	27.60	8-3-73	2.20	NO RECORD			
4N-23W-30CC	1	1946	51.84	6-5-47	59.25	9-16-59	56.65	10-17-73	-3.65	-0.89			
4N-24W-15CC	1	1946	3.93	9-20-61	14.90	3-13-67	9.30	10-19-73	3.20	1.00			
GAGE COUNTY													
2N-5E-8AD	1	1968	72.42	4-30-70	77.53	8-25-72	75.17	10-9-73	-2.17	1.43			
2N-6E-23BD	1	1962	87.32	11-1-62	88.73	10-19-71	87.64	10-15-73	-0.64	0.63			
3N-5E-24DAA	1	1968	105.11	5-16-68	110.64	10-25-72	107.27	10-15-73	-3.27	3.37			
4N-5E-16BA	1	1967	62.85	5-20-69	68.31	10-24-72	65.91	10-17-73	-2.91	2.40			
4N-6E-10CCA	1	1968	22.21	10-15-73	26.17	10-24-72	22.21	10-15-73	1.79	3.96			
5N-5E-16DCAB1	1	1968	77.99	5-20-69	87.17	10-24-72	81.83	10-17-73	-2.83	5.34			
5N-6E-28BBCD1	1	1968	162.34	10-15-68	164.92	10-24-72	164.19	10-15-73	-2.19	0.73			
5N-7E-2BB	1	1962	78.37	10-30-62	85.57	10-24-72	79.31	10-15-73	0.69	6.26			
6N-5E-32DACD1	1	1968	44.04	5-20-69	51.23	10-21-71	46.43	10-17-73	-0.43	3.29			
6N-6E-1BAC	1	1968	151.12	6-4-68	154.90	10-15-73	154.90	10-15-73	-3.90	-0.94			
GARDEN COUNTY													
16N-42W-34AB	1	1950	11.97	10-22-73	13.47	4-18-51	11.97	10-22-73	0.33	1.02			
18N-46W-27CC	1	1934	1.94	9-7-51	5.95	7-26-40	3.70	10-22-73	0.30	-0.34			
21N-44W-35CA	1	1933	0.43	2-12-34	5.74	3-17-38	2.10	10-17-73	0.90	1.97			
21N-45W-3BD	2	1934	1.70	3-22-52	11.18	11-4-70	4.43	10-17-73	-0.63	1.35			
GARFIELD COUNTY													
21N-15W-19AA	1	1951	13.23	10-16-73	16.04	1-5-51	13.23	10-16-73	1.27	1.21			
21N-16W-21DC	1	1950	3.77	10-16-73	6.22	10-27-64	3.77	10-16-73	2.23	1.77			
24N-15W-20AA	1	1935	1.00	10-25-73	5.70	7-17-40	1.00	10-25-73	3.70	2.49			

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM ASSUMED NORMAL	CHANGE FROM PREVIOUS FALL	
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE			
GOSPER COUNTY										
6N-21W-29CC	1	1948	92.40	10-24-69	123.72	10-16-48	97.85	10-17-73	25.87	1.45
7N-21W-6BC	1	1934	57.30	10-17-73	117.80	9-26-35	57.30	10-17-73	60.50	1.90
7N-21W-15BB	1	1949	156.25	10-26-73	201.01	6-17-49	156.25	10-26-73	43.24	0.80
8N-21W-12BC	1	1937	8.36	3-6-42	12.30	11-1-37	9.87	11-8-73	0.13	0.91
GRANT COUNTY										
23N-38W-4CB	1	1958	0.02	10-30-63	1.85	10-2-58	0.42	10-29-73	0.28	0.35
24N-40W-36BB	1	1934	9.45	10-20-72	14.26	10-19-48	12.47	10-29-73	1.13	-3.02
GREELEY COUNTY										
17N-12W-24BB	1	1958	44.46	6-10-59	52.07	10-20-71	48.54	10-29-73	-2.54	2.72
17N-12W-35AA	1	1958	8.49	10-29-73	16.70	7-8-64	8.49	10-29-73	5.51	0.67
18N-10W-20BB	1	1968	32.97	5-4-73	37.03	10-20-71	33.51	10-29-73	0.49	2.33
20N-9W-20DB	1	1936	6.72	7-16-65	11.54	9-2-59	7.66	10-23-73	1.44	0.62
20N-10W-4BB	1	1959	3.35	6-28-67	DRY	5-15-72	6.34	10-23-73	-0.34	1.25
HALL COUNTY										
9N-9W-26CA	1	1953	63.23	7-9-53	77.15	10-12-71	73.90	11-8-73	-1.90	2.83
9N-10W-23AB	1	1948	78.29	3-17-50	89.93	10-11-67	86.03	11-8-73	-7.03	0.74
9N-11W-21BB	1	1946	4.30	5-6-58	10.82	10-18-56	8.60	11-8-73	-0.80	0.74
9N-12W-9BA	1	1930	18.50	7-5-49	28.70	10-12-66	19.05	11-7-73	2.25	3.05
10N-10W-8CC	1	1931	19.42	6-6-32	26.89	10-18-56	20.49	11-8-73	1.51	1.82
10N-10W-13DD	2	1965	2.68	12-16-70	7.01	9-8-65	4.18	11-8-73	1.82	1.38
10N-11W-8CC	1	1947	20.85	2-28-50	33.32	8-27-64	26.03	11-7-73	-4.13	2.24
10N-11W-30BC	1	1930	15.67	6-30-31	36.32	5-18-72	24.70	11-7-73	-11.20	0.18
10N-12W-8CC	1	1955	29.17	6-27-55	37.42	10-25-67	34.12	11-7-73	-4.12	1.69
10N-12W-27CC	1	1947	17.53	5-4-51	28.34	10-12-66	23.12	11-7-73	-4.52	2.03
11N-9W-12DC	1	1935	4.28	4-5-73	10.15	9-26-57	4.60	10-12-73	2.20	2.38
11N-9W-34CB	1	1935	2.50	7-10-44	DRY	5-29-57	3.80	11-8-73	1.80	1.54
11N-10W-24CB	1	1935	12.66	7-14-47	25.50D	9-26-57	14.13	11-8-73	1.67	3.12

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH			LOW			1973			DEPARTURE FROM ASSUMED NORMAL	CHANGE FROM PREVIOUS FALL
		WATER LEVEL	DATE	DATE	WATER LEVEL	DATE	DATE	WATER LEVEL	DATE	DATE		
HALL COUNTY (CONTINUED)												
11N-11W-9CB	1	17.70	5- 1-51	10-13-71	29.58	10-13-71	26.40	11- 7-73	-5.40	1.96		
11N-11W-25CC	1	12.18	6-25-49	8-15-57	23.99	8-15-57	19.73	10- 5-73	-4.73	0.88		
11N-12W-24CC	1	23.21	5- 4-51	10-12-66	35.13	10-12-66	31.00	11- 7-73	-7.10	1.50		
12N- 9W-25CD	1	12.60	5-17-73	10-13-59	25.76	10-13-59	12.93	11- 9-73	2.77	5.32		
12N- 9W-32AA	1	7.58	7-14-47	9-26-57	16.20D	9-26-57	12.15	11- 9-73	-2.55	3.12		
12N-10W-33CB	1	9.53	5- 2-51	10-17-56	18.20	10-17-56	12.65	11- 7-73	-1.65	3.04		
12N-11W-19DD	1	39.87	5- 2-51	8-27-64	51.44	8-27-64	44.25	11- 7-73	-2.25	4.65		
HAMILTON COUNTY												
9N- 5W- 9DB	1	82.24	5-26-53	10-18-72	96.68	10-18-72	95.44	10-30-73	-13.44	1.24		
9N- 6W- 7DA	1	72.50	4-17-61	10-30-73	80.55	10-30-73	80.55	10-30-73	-10.55	-0.18		
9N- 6W-30BC	1	72.83	4-11-63	10-18-72	80.03	10-18-72	79.37	10-30-73	-9.37	0.66		
9N- 7W-19DA	1	81.58	4-19-57	10-30-73	88.84	10-30-73	88.84	10-30-73	-10.84	-0.02		
9N- 8W- 9CB	1	73.34	3-30-53	10-18-72	83.77	10-18-72	82.19	10-30-73	-8.19	1.58		
10N- 5W-14AB	1	84.60	6-29-56	10-19-72	102.93	10-19-72	102.10	10-31-73	-19.10	0.83		
10N- 6W- 4CC	1	72.87	3-17-50	10-31-73	89.85	10-31-73	89.85	10-31-73	-15.85	-0.38		
10N- 6W-26BC	1	84.90	6-20-56	9-10-73	101.98	9-10-73	100.29	10- 8-73	-17.29	-0.75		
10N- 7W-15DC	2	84.00	4-28-70	10-31-73	89.48	10-31-73	89.48	10-31-73	-14.48	-0.84		
10N- 8W- 7CB	1	67.60	6-26-56	11- 4-71	71.53	11- 4-71	70.12	10-31-73	-4.12	0.96		
10N- 8W-24AB	1	81.07	3-16-50	10-19-72	92.49	10-19-72	92.21	10-31-73	-9.21	0.28		
11N- 5W- 9DB	1	86.30	4-30-57	11- 2-73	100.28	11- 2-73	100.28	11- 2-73	-20.28	-0.58		
11N- 6W-13CB	1	90.04	9-29-34	11- 2-73	113.65	11- 2-73	113.65	11- 2-73	-23.65	-0.76		
11N- 7W-14CA	1	98.37	6- 4-53	5-17-67	116.36	5-17-67	114.14	11- 1-73	-16.14	-0.91		
11N- 8W-28BC	1	27.82	4-28-53	10- 8-64	36.16	10- 8-64	34.52	10-31-73	-6.52	1.08		
12N- 5W-23CCG	1	92.77	6-30-69	7- 9-73	113.79	7- 9-73	100.24	10- 8-73	-19.24	-0.55		
12N- 6W-23BA	1	82.42	6-19-58	11- 6-73	101.98	11- 6-73	101.98	11- 6-73	-21.98	-0.86		
12N- 7W-24BA	1	108.75	4- 8-63	11- 1-73	114.02	11- 1-73	114.02	11- 1-73	-10.02	-0.45		
13N- 5W-31AD	1	101.33	5-11-60	4-19-67	107.58	4-19-67	106.34	11- 6-73	-6.34	0.62		
13N- 6W-27CC	1	7.57	5-28-52	10-25-72	11.42	10-25-72	9.62	11- 6-73	1.38	1.80		

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM		CHANGE FROM PREVIOUS FALL
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	ASSUMED NORMAL	PREVIOUS FALL	
HARLAN COUNTY										
1N-17W-1DA	1	1946	1.95	10-25-46	10.00	10-3-66	3.80	10-29-73	3.70	2.60
2N-17W-15CDA	1	1960	105.42	3-28-63	110.05	10-17-73	110.05	10-17-73	-3.55	-1.08
2N-17W-30CDB	1	1960	105.53	4-4-73	109.41	10-1-64	107.28	10-17-73		0.25
2N-18W-9BCC	1	1964	84.39	5-11-66	99.44	8-25-71	87.72	10-15-73	-2.72	-0.10
2N-20W-19BAA	1	1960	22.76	3-30-66	34.12	10-8-71	29.53	10-16-73	-2.53	0.88
2N-20W-23ACD	1	1960	18.82	3-30-66	29.57	10-14-70	27.23	10-16-73	-4.23	-0.50
3N-17W-10DDB	1	1965	159.00	3-24-67	161.17	10-16-73	161.17	10-16-73	-1.67	-0.63
3N-20W-14ABB	1	1960	98.56	3-7-68	102.10	10-2-64	100.02	10-16-73	-0.52	-0.42
3N-20W-25CC	1	1946	4.60	6-13-61	17.71	10-30-53	5.50	10-18-73	4.50	1.80
4N-18W-4AB	1	1960	198.11	3-24-67	202.73	10-16-73	202.73	10-16-73	-3.73	-1.25
4N-18W-15AD	1	1968	176.45	5-6-70	182.30	8-7-73	180.20	10-29-73	-3.70	-0.04
4N-20W-25DDA	1	1960	147.79	3-8-60	194.27	10-15-65	149.27	10-15-73	0.23	-0.17
HAYES COUNTY										
5N-33W-31DCB	1	1936	6.64	4-9-37	15.40	9-14-59	13.25	10-23-73	0.25	0.35
5N-34W-30BAA	1	1946	8.79	8-17-67	12.81	4-19-54	11.20	10-23-73	0.0	0.20
HITCHCOCK COUNTY										
2N-35W-21BC	1	1934	19.08	6-3-52	24.08	9-11-56	20.44	10-16-73	0.36	0.42
2N-35W-24AA	1	1946	3.67	6-9-49	8.77	10-8-47	3.80	10-15-73	2.70	1.45
3N-31W-14BC	1	1946	11.10	8-6-64	15.88	8-15-46	12.50	10-16-73	1.40	1.08
3N-32W-11BB	1	1946	12.30	4-9-63	15.80	8-3-70	14.45	10-23-73	-0.95	0.45
3N-32W-26DD	1	1946	23.66	10-21-68	32.17	11-27-56	24.80	10-16-73	3.70	1.52
4N-33W-23AD	1	1946	11.09	9-16-57	27.40	8-3-70	13.30	10-23-73	0.0	0.57
HOLT COUNTY										
26N-12W-26AAA	1	1972	3.74	4-20-73	13.20	7-15-72	6.60	10-3-73	-0.60	0.78
27N-9W-34DA	1	1934	2.67	4-5-60	9.90	9-1-48	7.81	10-25-73	0.69	0.38
28N-9W-11BA	1	1961	40.16	11-14-62	50.30	10-26-70	45.96	10-25-73	-3.96	2.10

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM PREVIOUS FALL	
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	ASSUMED NORMAL	CHANGE FROM
HOLT COUNTY (CONTINUED)									
28N-9W-23AB	1961	0.43	6-27-62	4.78	10-26-70	2.41	10-25-73	1.09	0.88
29N-9W-28DD	1961	18.35	5-25-64	23.29	10-26-70	22.64	10-25-73	-2.64	0.22
29N-11W-21BBB	1947	16.87	1-14-48	29.77	10-27-69	27.13	10-24-73	-5.13	0.75
29N-12W-3BB	1956	10.95	10-9-62	28.45	10-20-71	27.39	10-24-73	-16.39	-0.25
29N-12W-10CCC	1956	23.00	4-25-63	35.57	10-24-73	35.57	10-24-73	-13.57	-0.49
30N-10W-10CC	1956	52.40	4-27-64	66.90D	10-26-70	65.12	10-25-73	-9.12	1.28
30N-10W-32DAA	1966	35.41	10-21-66	43.79	10-25-72	43.33	10-3-73	-8.33	0.39
30N-11W-29AA	1956	31.30	6-22-64	37.69	10-26-70	36.08	10-24-73	-5.08	0.96
30N-12W-9DD	1956	49.98	12-19-63	60.09	10-24-73	60.09	10-24-73	-8.59	-0.71
30N-13W-31CC	1956	28.71	11-6-56	38.92	10-24-73	38.92	10-24-73	-10.92	-1.92
30N-15W-12CB	1963	22.52	8-6-63	26.98	10-15-68	25.10	10-24-73	-1.35	0.17
31N-11W-29AA	1956	28.64	10-9-62	30.42	7-6-59	30.24	10-24-73	-0.74	0.06
31N-12W-27BB	1956	105.55	10-8-56	111.20	10-20-71	110.77	10-24-73	-4.27	-0.24
31N-14W-8AA	1956	13.45	6-28-62	21.22	10-19-71	19.11	10-24-73	-3.61	0.97
31N-14W-27DDD	1966	30.91	7-7-66	40.36	9-15-71	36.30	10-2-73	-4.30	0.89
31N-15W-32DA	1963	14.51	8-6-63	19.04	10-15-68	16.74	10-24-73	0.51	0.66
31N-16W-20AA	1963	10.53	10-25-72	17.49	7-14-63	11.84	10-24-73	2.41	-1.31
HOOKER COUNTY									
24N-35W-23DC	1958	7.23	9-4-58	14.83	10-25-72	13.63	10-9-73	-3.63	1.20
HOWARD COUNTY									
13N-9W-26DD	1946	2.83	2-5-74	14.27	11-16-71	3.29	10-12-73	4.31	6.83
14N-11W-8AB	1967	52.19	10-29-73	69.95	11-30-67	52.19	10-29-73	30.81	5.16
14N-11W-22DD	1968	36.70	10-15-73	47.38	12-12-68	36.88	10-5-73	25.12	2.66
15N-10W-7DD	1956	0.80	10-4-73	5.55	10-3-56	0.80	10-4-73	3.20	NO RECORD
15N-10W-34BA	1966	4.53	3-1-72	16.40	5-18-67	10.32	10-16-73	4.68	3.96
15N-11W-28BB	1961	120.32	10-29-73	150.19	10-8-64	120.62	10-16-73	28.38	3.38
15N-12W-28AB	1959	17.42	10-16-73	41.02	12-15-59	17.42	10-16-73	24.58	2.78



TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM		CHANGE FROM PREVIOUS FALL
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	FROM ASSUMED NORMAL	FROM PREVIOUS FALL	
(CONTINUED)										
HOWARD COUNTY										
16N-11W-7CC	2	1958	17.21	10-29-73	22.95	10-15-63	17.21	10-29-73	3.29	2.01
16N-11W-29CC	1	1958	22.20	7-1-60	29.28	10-14-71	25.60	10-4-73	-0.10	1.85
16N-12W-32BB	1	1962	68.00	10-16-73	76.29	12-12-63	68.00	10-16-73	8.00	1.65
JEFFERSON COUNTY										
2N-1E-33DAC	1	1966	27.50	10-17-73	30.20	10-30-67	27.50	10-17-73	1.50	1.99
2N-2E-15CAD	1	1966	5.26	10-17-73	13.18	10-20-71	5.26	10-17-73	6.74	7.19
3N-1E-21CBBB1	1	1968	11.52	10-17-73	18.27	10-20-71	11.52	10-17-73	5.48	5.96
3N-3E-26DBA	1	1968	128.69	10-20-71	137.74	10-25-72	136.41	10-17-73	-3.41	1.33
3N-4E-26DDC	1	1966	90.29	6-4-68	94.61	10-25-72	93.55	10-17-73	-2.55	1.06
4N-1E-27ABA	1	1964	117.64	10-31-67	120.61	10-17-73	120.61	10-17-73	-2.61	-0.03
4N-1E-31AA	1	1968	73.87	2-12-74	75.91	8-25-72	74.78	10-9-73	-0.28	1.04
4N-3E-13DA	1	1968	109.97	6-19-69	118.26	8-25-72	115.02	10-9-73	-8.02	1.17
4N-3E-23BBC	1	1964	109.77	11-10-64	117.69	10-25-72	116.38	10-17-73	-5.88	1.31
4N-4E-3AD	1	1964	78.78	11-5-64	86.23	10-24-72	85.40	10-17-73	-5.40	0.83
JOHNSON COUNTY										
6N-9E-17CC	1	1967	85.99	10-15-68	87.68	10-24-72	86.25	10-15-73	-0.25	1.43
KEARNEY COUNTY										
5N-13W-21AA	1	1973	118.20	10-20-69	122.20	10-16-73	122.20	10-16-73	9.80	-1.50
5N-14W-16CB	1	1947	140.10	8-21-51	147.60	10-16-73	147.60	10-16-73	-3.60	-1.30
5N-15W-34DAA	1	1966	121.70	5-4-71	124.35	10-16-73	124.35	10-16-73	-9.35	-0.95
5N-16W-30DA	1	1947	133.90	10-20-70	137.65	8-3-48	134.40	10-29-73	-2.40	0.20
6N-13W-16DB	1	1947	82.22	12-16-54	89.42	8-13-47	88.20	10-16-73	-4.20	-0.60
6N-14W-21DB	2	1968	100.65	5-4-70	105.00	10-20-71	104.50	10-16-73	-5.50	-0.70
6N-15W-1CB	1	1948	46.00	10-16-73	71.36	6-29-48	46.00	10-16-73	36.00	0.90
6N-15W-34DC	1	1968	79.78	5-31-73	108.11	7-20-73	83.96	10-5-73	19.04	-1.00
6N-16W-14AD	1	1948	34.95	10-29-73	82.65	4-12-49	34.95	10-29-73	64.05	2.84
7N-13W-19DC	1	1947	58.97	5-4-70	65.40	12-29-47	61.40	10-16-73	-0.40	0.20

TABLE 1. WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM ASSUMED NORMAL	CHANGE FROM PREVIOUS FALL	
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE			
(CONTINUED)										
KEARNEY COUNTY										
7N-14W-20BA	1	1948	63.10	10-17-73	75.75	6-10-49	63.10	10-17-73	12.90	1.10
7N-15W-7AA	1	1961	0.11	11-3-69	6.41	8-17-63	2.32	11-6-73	12.68	1.76
7N-16W-7CC	1	1957	5.35	4-3-73	15.60	9-27-57	5.53	11-6-73	19.47	1.83
7N-16W-31DC	1	1957	12.55	9-2-71	40.55	9-27-57	12.78	11-6-73	56.22	1.31
8N-14W-23BA	1	1946	2.40	10-17-73	6.98	10-19-56	2.40	10-17-73	3.10	2.55
8N-15W-21DC	1	1946	3.20	11-15-46	7.47	12-6-56	4.30	10-17-73	1.70	2.30
8N-16W-28AA	1	1946	4.36	10-10-46	7.92	10-19-56	4.90	10-17-73	2.10	1.95
KEITH COUNTY										
13N-35W-6DD	1	1938	5.90	5-8-42	16.52	10-22-68	11.50	10-22-73	-2.50	1.60
13N-36W-6BC	1	1936	1.70	6-15-49	6.32	10-6-43	3.53	10-22-73	1.47	1.07
13N-37W-3AB	1	1935	10.55	5-8-42	15.80	11-6-47	13.53	10-25-73	1.17	1.87
13N-38W-3BA	1	1936	9.27	5-8-42	16.25	10-21-68	13.32	10-25-73	0.68	1.87
13N-38W-6CA	1	1936	9.94	5-8-42	16.90	11-2-54	14.18	10-24-73	-0.38	1.54
16N-38W-7AA	1	1936	7.45	3-2-37	13.20	7-1-69	9.33	10-24-73	-0.83	0.37
KEYA PAHA										
32N-19W-19DC	1	1935	1.52	3-29-40	3.61	10-31-40	2.52	10-23-73	-0.02	0.26
33N-21W-9AD	1	1961	5.62	7-17-62	12.35	10-22-70	10.42	10-23-73	-0.42	0.78
KIMBALL COUNTY										
14N-58W-1CC	1	1953	31.02	10-25-73	33.55	8-30-53	31.02	10-25-73	1.98	0.69
14N-59W-11DD	1	1950	21.98	9-30-58	23.88	10-28-71	23.02	10-25-73	-0.92	0.55
15N-53W-31BB	1	1951	46.25	1-24-52	52.19	10-11-56	50.48	10-25-73	-3.48	-0.10
15N-55W-7ABB	1	1972	209.67	10-26-72	216.30	7-10-73	211.11	10-5-73	-1.11	-1.44
15N-55W-17CC	1	1935	92.18	1-2-36	100.95	10-29-63	98.96	10-25-73	-3.96	0.27
15N-55W-26CC	1	1936	39.82	1-2-36	49.25	10-17-72	49.18	10-25-73	-7.18	0.07
15N-56W-32AC	1	1951	19.03	10-17-57	22.60	10-16-70	21.88	10-25-73	-0.88	0.40
15N-57W-33AB	1	1935	21.85	3-25-52	23.24	9-21-65	22.16	10-25-73	-0.16	0.69

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM		CHANGE FROM PREVIOUS FALL
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	ASSUMED NORMAL	PREVIOUS FALL	
KNOX COUNTY										
30N-3W-11AA	1	18.99	12-7-60	23.25	10-9-37	19.15	10-2-73	0.85	0.99	
32N-6W-8DD	1	6.07	10-24-72	16.18	10-30-40	7.13	10-3-73	7.27	-1.06	
33N-7W-30CB	1	8.46	6-27-62	13.57	9-26-65	11.37	10-3-73	2.33	1.47	
LANCASTER COUNTY										
8N-6E-34DD	1	3.41	4-5-60	8.90	7-31-54	4.05	10-15-73	0.95	1.67	
8N-7E-20DDA	1	0.16	3-27-60	11.55	3-20-57	2.31	10-26-73	2.69	2.64	
10N-6E-36CDD	1	53.56	2-4-74	71.19	9-5-56	54.74	10-1-73	12.26	2.11	
11N-6E-20DC	1	11.69	10-8-63	17.53	1-10-57	13.33	10-26-73	2.57	3.32	
11N-8E-17DC	1	8.59	4-30-52	20.25	11-30-56	10.69	10-26-73	5.81	6.14	
LINCOLN COUNTY										
10N-32W-17CC	1	133.34	10-22-69	148.57	1-22-41	133.81	10-22-73	13.19	0.05	
12N-26W-35DB	1	7.32	7-13-47	13.00	10-23-70	10.99	10-17-73	-0.89	1.87	
12N-27W-14AA	1	2.98	7-2-35	7.07	8-30-41	3.96	10-17-73	2.14	2.88	
12N-27W-28DD	1	11.79	7-7-49	15.23	9-23-64	13.24	10-17-73	-0.74	0.47	
12N-28W-9BC	1	3.58	3-3-49	10.48	11-1-39	6.50	10-17-73	1.00	-0.79	
13N-28W-16DD	1	2.46	3-12-52	6.59	10-4-60	5.30	10-17-73	-0.30	0.89	
13N-30W-9CB	1	0.90	6-13-47	5.00	9-18-53	2.96	10-23-73	-0.06	0.80	
13N-30W-21BB	1	5.32	6-18-51	19.92	9-17-36	9.98	10-23-73	7.02	0.34	
14N-30W-9CA	1	2.24	3-11-52	6.05	9-12-46	2.93	10-23-73	1.67	1.20	
14N-30W-16DB	1	0.0	3-11-57	3.45	8-13-53	0.79	10-23-73	0.41	0.93	
14N-30W-21CD	1	1.78	10-23-73	5.33	9-18-53	1.78	10-23-73	1.92	1.92	
14N-30W-28DC	1	3.69	10-23-73	7.72	9-18-53	3.69	10-23-73	2.41	2.11	
14N-33W-17DA	1	0.45	8-3-45	5.24	12-9-64	3.20	10-23-73	0.20	1.17	
15N-31W-13DD	1	4.92	9-23-64	9.55	10-27-41	6.77	10-22-73	2.23	-0.06	
16N-31W-4AB	1	65.48	10-2-51	71.11	5-21-52	68.00	10-22-73	1.20	-0.10	

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM PREVIOUS FALL	
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	FROM ASSUMED NORMAL	FROM PREVIOUS FALL
LOGAN COUNTY									
17N-27W-5BA	1	10.61	10-31-62	13.63	11-4-40	12.58	10-17-73	-0.08	0.34
17N-27W-28BB	1	184.51	5-13-69	185.90	10-17-73	185.90	10-17-73	-1.90	-0.54
LOUP COUNTY									
21N-17W-32AC	1	20.76	10-16-73	24.67	4-15-52	20.76	10-16-73	3.24	0.27
21N-18W-22AA	1	3.22	11-17-65	5.31	7-16-40	3.31	10-16-73	0.69	0.82
21N-19W-4BC	1	8.73	2-9-55	12.92	10-17-72	11.92	10-16-73	-0.32	1.00
21N-19W-13DB	1	16.34	4-15-52	20.14	7-14-52	16.48	10-16-73	0.52	1.22
22N-20W-24DB	1	17.75	11-7-62	19.42	10-13-71	18.55	10-16-73	-0.75	0.81
MC PHERSON COUNTY									
18N-31W-16DD	1	105.74	10-17-37	109.92	1-10-51	109.02	10-22-73	-0.22	-0.16
MADISON COUNTY									
24N-4W-6DC	1	22.85	10-13-65	25.40	12-1-53	23.43	10-24-73	1.27	0.41
24N-4W-25CC	1	2.98	8-30-51	8.00	9-12-55	5.41	10-24-73	-1.41	0.13
MERRICK COUNTY									
12N-7W-7AA	1	4.20	4-11-60	10.26	11-5-56	5.80	10-26-73	1.20	2.75
12N-8W-7DC	1	8.51	5-27-52	22.07	11-5-56	12.98	11-9-73	-1.98	5.77
12N-8W-36BC	1	1.02	6-13-67	5.87	8-11-64	3.50	10-26-73	0.50	1.50
13N-6W-2BC	1	2.86	5-27-52	9.15	11-5-56	5.19	10-25-73	0.81	2.67
13N-6W-7BB	1	2.80	12-28-73	10.42	11-5-56	6.39	10-25-73	-0.49	3.41
13N-7W-16CC	1	11.35	10-26-49	21.36	10-18-72	16.77	10-26-73	-1.77	4.59
13N-7W-36CB	1	7.11	5-16-73	12.77	11-5-56	8.34	10-26-73	1.66	3.58
13N-8W-10CD	1	2.79	4-29-49	11.09	11-5-56	5.64	10-26-73	1.36	3.16
14N-5W-9CC	2	4.14	5-27-52	9.83	11-6-56	5.49	10-25-73	1.01	1.70
14N-6W-9BB	1	5.81	5-2-61	14.50	8-18-64	7.14	10-25-73	-1.14	4.34
14N-7W-21CB	1	4.16	4-13-49	10.69	11-7-56	7.40	10-25-73	0.10	3.03

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM ASSUMED NORMAL	CHANGE FROM PREVIOUS FALL	
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE			
MERRICK COUNTY (CONTINUED)										
14N-8W-12DD	2	1970	14.39	6-25-73	18.60	7-23-70	15.26	10-25-73	-2.26	2.31
15N-4W-31CC	1	1945	1.06	10-12-65	6.81	11-6-56	2.32	10-25-73	2.28	1.26
15N-5W-8DDD	1	1972	10.79	10-25-73	15.86	8-22-72	10.79	10-25-73	2.21	0.45
15N-6W-21CC	1	1950	12.80	5-2-61	16.22	11-7-56	13.40	10-25-73	0.60	2.20
15N-7W-26CC	1	1950	14.38	5-1-61	17.70	9-28-63	15.45	10-25-73	-0.45	1.81
15N-8W-33CB	1	1948	10.38	2-6-50	17.25	11-7-56	12.43	10-25-73	-1.43	2.07
16N-4W-32DD	1	1950	0.58	4-16-73	6.98	11-6-56	2.81	10-25-73	1.19	1.39
MORRILL COUNTY										
18N-52W-11DD	1	1949	22.43	4-1-53	27.25	10-19-70	26.20	10-29-73	-2.70	0.27
19N-48W-26DC	1	1951	8.76	10-22-73	11.24	4-18-51	8.76	10-22-73	1.14	0.88
19N-49W-23CD	1	1936	9.33	8-20-50	12.05	10-22-71	11.30	10-22-73	-0.10	0.54
19N-50W-30CD	1	1949	22.82	10-17-72	24.22	10-10-60	23.00	10-29-73	0.70	-0.18
20N-49W-30AC	1	1946	15.22	11-21-49	21.62	10-17-62	15.42	10-22-73	1.78	0.88
20N-50W-17BB	1	1946	9.14	10-7-59	15.93	5-9-46	10.98	10-29-73	2.02	0.57
20N-50W-32AA	1	1930	1.20	5-31-61	6.17	6-30-55	3.88	10-29-73	0.12	0.50
21N-50W-33BC	1	1946	16.09	10-28-69	47.85	6-11-46	28.15	10-29-73	0.85	-0.93
22N-50W-14BC	1	1946	0.06	5-9-49	3.07	9-29-64	0.88	10-29-73	0.12	1.19
NANCE COUNTY										
15N-8W-1AA	1	1958	76.07	4-27-62	80.05	10-17-72	79.57	10-26-73	-2.57	0.48
16N-4W-31BC	1	1947	1.67	3-13-73	9.27	4-18-56	4.70	10-25-73	1.30	1.08
16N-5W-4AB	1	1961	24.11	5-4-73	30.44	1-30-64	24.62	10-26-73	3.88	4.98
16N-6W-30CB	1	1958	22.22	10-26-73	25.89	10-26-59	22.22	10-26-73	2.78	NO RECORD
16N-7W-33DD	1	1958	25.86	10-26-73	30.68	2-16-60	25.86	10-26-73	4.14	1.72
17N-4W-31AA	1	1950	4.55	10-26-73	10.60	10-23-62	4.55	10-26-73	3.55	0.31
17N-5W-13BB	1	1963	46.76	10-15-68	126.53	4-1-64	120.88	10-26-73	5.12	0.76
17N-6W-10DA	1	1964	131.24	2-27-65	139.51	10-25-73	139.51	10-25-73	-6.51	-0.43
17N-6W-34AD	1	1935	40.30	5-24-50	47.32	8-5-63	43.02	10-25-73	0.98	2.03
17N-7W-18DA	1	1961	21.50	6-27-67	38.45	8-5-63	32.78	10-25-73	2.22	1.91

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM		CHANGE FROM PREVIOUS FALL
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	ASSUMED NORMAL	PREVIOUS FALL	
17N-7W-25AD	1	6.42	5-4-73	15.02	7-1-63	6.49	10-25-73	5.51	5.51	1.46
18N-4W-19AB	1	6.05	7-25-50	12.97	10-20-71	11.89	10-31-73	-0.39	-0.39	0.56
NANCE COUNTY (CONTINUED)										
6N-13E-10AA	1	0.41	10-17-73	11.68	10-16-68	0.41	10-17-73	6.59	6.59	10.60
NEMAHA COUNTY										
1N-5W-31CB	1	10.95	10-15-73	20.43	11-2-48	10.95	10-15-73	7.45	7.45	4.10
1N-6W-31CC	1	3.90	6-16-72	12.53	12-21-48	6.70	10-17-73	4.30	4.30	4.05
1N-7W-32BB	1	0.09	6-26-51	6.68	9-26-56	1.02	10-15-73	1.98	1.98	4.48
1N-8W-7DD	1	0.03	5-4-59	9.70	8-10-70	2.32	10-15-73	1.98	1.98	5.58
1N-8W-23AB	1	0.02	7-29-51	DRY	5-5-70	0.58	10-15-73	4.42	4.42	5.22
2N-5W-14DDA	1	148.52	11-9-64	153.40	10-18-71	152.35	10-15-73	-2.35	-2.35	-0.45
2N-6W-26CBC	1	42.50	10-15-73	46.37	6-14-68	42.50	10-15-73	2.50	2.50	1.90
2N-7W-19BAB	1	71.47	5-18-73	76.93	10-22-68	71.47	5-18-73	3.53	3.53	1.00
3N-5W-1BBAB	1	101.15	5-28-68	112.17	10-20-71	111.69	10-23-73	-8.69	-8.69	-1.19
3N-6W-1DAB	1	22.55	10-23-73	28.32	10-27-70	22.55	10-23-73	4.45	4.45	5.16
4N-5W-29CBB	1	84.68	11-9-64	94.59	10-20-71	93.49	10-23-73	-5.99	-5.99	-1.17
4N-6W-14CDCB	1	74.84	5-28-68	81.10	10-23-73	81.10	10-23-73	-7.10	-7.10	-2.59
OTOE COUNTY										
8N-9E-3BB	1	1.20	6-25-47	10.99	10-14-36	1.91	10-26-73	4.69	4.69	5.90
8N-11E-7CC	1	1.30	6-25-47	14.38	11-30-56	3.86	10-17-73	5.74	5.74	9.97
PAWNEE COUNTY										
3N-11E-8DD	1	31.01	10-17-73	37.80	10-15-68	31.01	10-17-73	5.99	5.99	4.83

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM		CHANGE FROM PREVIOUS FALL
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	ASSUMED NORMAL	PREVIOUS FALL	
11N-39W-35DDD	1	150.30	11- 3-66	162.10	4-29-35	152.80	10-22-73	7.20		-0.50
12N-37W-21BC	1	144.20	4-26-72	145.18	10-21-68	144.95	10-22-73	0.05		0.15
PERKINS COUNTY										
5N-19W-22DA	1	200.07	11-17-67	204.86	11- 3-64	203.80	10-26-73	1.06		-0.50
6N-17W- 8CC	1	11.89	10-10-72	35.69	1-31-62	14.67	11- 6-73	61.33		-2.78
6N-18W-16CC	1	77.91	2-15-72	112.50	10- 2-58	82.12	4-11-73	57.88		0.19
6N-19W- 2AA	1	49.10	10-29-73	123.70	3- 9-45	49.10	10-29-73	88.90		3.95
6N-19W-21DC	1	120.45	10-22-70	152.60	9-26-50	120.65	10-26-73	31.95		-0.05
PHELPS COUNTY										
7N-17W- 5AB	1	13.04	7- 1-71	21.00	9-27-57	13.16	11- 7-73	13.84		1.27
7N-17W-21CB	1	23.74	4- 3-73	44.90	9-27-57	24.29	11- 6-73	37.71		3.09
7N-18W-31AA	1	13.23	10-10-73	21.35	3-10-69	13.41	10- 5-73	86.59		2.82
7N-18W-35AB	1	16.10	10-29-73	72.74	5-12-48	16.10	10-29-73	68.90		3.60
7N-20W-31CD	1	175.25	1-10-74	227.40	8-20-47	188.57	10- 5-73	43.43		2.49
8N-17W-24BC	1	7.60	10-23-69	12.23	10-27-40	7.90	10-17-73	1.60		2.10
8N-18W-16CC	1	3.95	10-23-69	9.26	8- 9-46	5.20	10-17-73	5.80		1.70
8N-19W-18AA	1	1.24	3-12-49	5.30	8- 3-66	2.95	10-17-73	2.05		0.84
8N-19W-33CC	1	2.00	4- 4-69	DRY	3- 7-69	14.83	11- 8-73	60.17		2.09
8N-20W- 8CD	1	3.97	9-11-50	8.90	8- 9-46	7.40	10-17-73	2.60		-1.25
PIERCE COUNTY										
25N- 1W-28BC	1	2.40	6-29-67	8.01	10-14-71	7.09	10-24-73	-0.59		0.01
28N- 3W-33BA	1	27.35	6-12-73	90.66	1- 9-74	29.58	10- 5-73	-0.58		1.40
PLATTE COUNTY										
16N- 2W- 9CC	1	0.39	4-15-49	5.13	11-28-56	1.87	10-24-73	1.73		1.66
17N- 1W- 2CC	1	6.44	10- 8-64	13.29	10- 8-36	10.05	10-24-73	-0.55		1.13
17N- 1W-34DC	1	6.29	7- 7-47	12.28	11-28-56	7.53	10-24-73	1.47		1.41
17N- 2W- 6BD	1	12.53	6- 6-49	15.35	10-20-71	13.17	10-24-73	0.93		1.29
18N- 1E-28CD	1	60.30	4-24-40	72.81	10- 9-58	67.03	10-24-73	0.47		-2.24

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM		CHANGE FROM PREVIOUS FALL
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	ASSUMED NORMAL	PREVIOUS FALL	
POLK COUNTY										
13N- 1W-10DB	1	1949	91.43	3-15-50	105.17	10-27-72	104.03	10-24-73	-12.03	1.14
13N- 2W- 6DD	1	1948	70.04	3-15-50	81.90	10-13-71	76.15	10-24-73	-5.95	1.75
13N- 2W-30DC	1	1953	78.53	3-10-53	93.17	10-13-71	90.92	10-24-73	-11.92	1.10
13N- 3W-30AA	1	1948	75.85	3-15-50	94.67	10-23-69	87.80	10-24-73	-11.60	0.59
13N- 4W-27BB	1	1949	69.45	5-29-52	87.07	10-13-71	86.13	10-24-73	-16.13	0.40
14N- 1W-23CCA	1	1966	107.78	5-22-68	114.19	10-13-71	110.04	10-24-73	-3.04	4.11
14N- 2W-12CC	1	1948	108.65	4-27-49	122.68	10-24-73	122.68	10-24-73	-13.58	-5.07
14N- 2W-21DB	1	1959	78.19	6-30-63	109.35	7-31-71	88.96	10- 8-73	-8.96	-1.91
14N- 3W-26AD	1	1948	66.13	3-15-50	77.30	7-29-65	72.92	10-24-73	-6.52	1.80
15N- 1W-14BBA	1	1964	173.32	5-16-73	180.44	10-13-71	174.15	10-24-73	1.85	2.40
15N- 2W- 4DC	1	1946	3.08	9-25-65	9.49	11-28-56	4.95	10-24-73	2.35	2.59
15N- 3W-24DDC	1	1965	22.69	5-16-73	29.01	10-13-71	24.43	10-24-73	-1.43	2.50
16N- 1W-36CD	1	1946	16.88	10-24-73	25.75	11-28-56	16.88	10-24-73	3.62	2.14
RED WILLOW COUNTY										
2N-29W- 4AD	1	1950	23.02	10-21-69	37.10	7-11-53	28.30	10-16-73	0.80	0.38
3N-27W-17CB	1	1946	6.10	6-22-62	11.56	7-16-54	8.48	10-16-73	1.52	0.77
3N-28W-19ADB	1	1967	12.32	5- 8-70	14.45	9-14-73	13.05	10-16-73	-5.05	0.18
3N-30W-29AA	1	1946	1.81	5- 5-52	7.00	8-10-73	3.65	10-16-73	0.45	0.85
RICHARDSON COUNTY										
2N-13E-10DB	1	1967	4.88	10-17-73	14.46	10-23-72	4.88	10-17-73	7.62	9.58
ROCK COUNTY										
30N-17W- 8DB	1	1934	0.50	3-24-51	5.25	9-29-34	2.17	10-23-73	1.53	1.46
30N-19W-10AA	1	1940	0.06	8-29-51	4.23	7-19-40	1.42	10-24-73	1.08	1.50
31N-17W- 9AA	1	1963	10.35	7-14-63	12.12	10-24-67	10.95	10-24-73	0.05	-0.01



TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH			LOW			1973			DEPARTURE FROM		CHANGE FROM PREVIOUS FALL
		WATER LEVEL	DATE	DATE	WATER LEVEL	DATE	DATE	WATER LEVEL	DATE	ASSUMED NORMAL	PREVIOUS FALL		
SALINE COUNTY													
5N- 1E-31DDCD1	1963	115.55	10-14-68	133.60	10-28-70	131.33	10-15-73	-13.33				0.18	
5N- 2E-28CBDA1	1968	88.85	11- 6-69	91.79	10-19-71	89.11	10-15-73	0.89				2.29	
5N- 3E-20DCC 1	1963	6.94	10-15-73	15.14	10-19-71	6.94	10-15-73	6.06				8.05	
5N- 4E-14DDC 1	1963	10.81	10-26-73	17.71	10-21-71	10.81	10-26-73	4.19				5.65	
6N- 1E-20CBBC1	1968	10.38	10-16-73	25.16	5- 7-68	10.38	10-16-73	9.62				7.08	
6N- 2E-23AADC1	1968	22.79	10-16-73	39.64	6-12-68	22.79	10-16-73	12.21				10.97	
6N- 3E-23DADD1	1968	82.97	5- 8-68	87.62	10-28-69	84.89	10-16-73	-1.89				0.52	
6N- 4E-17AADC1	1963	91.48	11-26-63	99.29	10-25-72	92.73	10-15-73	-0.73				6.56	
7N- 1E-15BAC 1	1963	66.04	5-21-70	76.55	10-14-68	75.71	10-16-73	-7.21				0.56	
7N- 2E-30BAA 1	1963	14.45	10-16-73	28.01	10-14-68	14.45	10-16-73	10.55				7.00	
7N- 3E-30AD 1	1935	24.67	10-16-73	52.88	10-16-40	24.67	10-16-73	17.33				15.08	
7N- 4E-34ACBC1	1963	15.07	10-15-73	92.64	10-29-70	15.07	10-15-73	1.93				4.10	
8N- 1E-11CA 1	1967	93.32	5-21-70	98.37	10-18-71	96.92	10-16-73	-1.92				-0.43	
8N- 3E-19ADA 1	1959	96.56	4-16-63	103.98	8-25-71	103.06	10- 5-73	-6.06				0.17	
8N- 4E-30AA 1	1963	89.07	5-21-64	94.94	10-18-71	94.91	10-15-73	-5.91				-0.27	
SARPY COUNTY													
13N-11E-15DA 1	1967	111.14	10-26-70	113.27	10-23-72	111.64	10-26-73	-0.14				1.63	
13N-13E-29BCB 1	1967	7.70	6-30-67	20.00	9-30-71	13.80	11- 5-73	-0.80				3.10	
SAUNDERS COUNTY													
13N- 9E-11DD 1	1934	1.60	3-17-36	9.24	11-18-39	2.40	10-19-73	2.50				3.19	
13N- 9E-24CC 1	1933	0.48	7-31-48	9.54	10-25-71	2.95	10-19-73	2.85				5.11	
13N-10E-30AD 1	1950	2.80	3-17-65	12.06	8-31-71	7.53	10-15-73	1.47				2.51	
14N- 5E-35CD 1	1935	0.84	10-26-73	14.49	10-15-40	0.84	10-26-73	2.66				3.12	
14N- 8E-24ACD 2	1971	42.69	2- 5-74	44.31	10-18-72	43.20	10- 4-73	-2.70				1.06	
14N- 9E-32DD 1	1962	37.57	10-21-65	42.15	1- 3-73	40.98	10- 3-73	-2.98				1.10	
15N- 7E-22AAA 1	1968	22.14	10-19-73	25.53	10-27-71	22.14	10-19-73	0.86				3.09	
15N- 8E-14CC 1	1967	21.54	10-19-73	27.71	10-27-71	21.54	10-19-73	2.46				4.99	
16N- 6E-23AAC 1	1968	18.47	5-14-69	21.14	10-26-72	18.70	10-19-73	0.30				2.44	

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM PREVIOUS FALL	
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	ASSUMED NORMAL	CHANGE FROM PREVIOUS FALL
SAUNDERS COUNTY (CONTINUED)									
16N-7E-22DAC 1	1968	13.51	10-19-73	20.58	10-27-71	13.51	10-19-73	2.49	5.63
17N-5E-23BC 1	1950	3.67	5-2-51	7.23	8-22-68	4.93	10-19-73	0.57	0.33
SCOTTS BLUFF COUNTY									
22N-55W-11DDC 1	1962	24.00	10-25-70	26.55	6-1-63	24.43	10-5-73	1.57	0.63
22N-56W-4DD 1	1936	1.48	10-23-73	8.45	4-7-37	1.48	10-23-73	3.52	0.88
23N-56W-6AA 1	1948	29.24	10-26-49	41.04	10-6-61	37.00	10-23-73	-5.00	-0.10
23N-56W-28AD 1	1936	8.14	10-19-72	10.45	7-2-63	8.97	10-23-73	0.33	-0.83
SEWARD COUNTY									
9N-1E-7AB 1	1970	41.19	5-14-73	43.22	10-13-71	41.63	10-23-73	-7.63	1.15
9N-1E-11CCCA 1	1957	21.07	3-31-63	27.55	10-13-71	25.97	10-23-73	-2.97	0.31
9N-2E-22CB 1	1953	10.46	4-13-53	17.94	10-18-71	14.46	10-23-73	-4.46	1.57
9N-3E-19AA 1	1956	64.98	4-26-56	73.68	10-13-71	72.97	10-23-73	-7.97	0.50
10N-1E-4BA 1	1953	82.05	4-6-53	90.68	11-3-67	90.30	11-5-73	-14.30	-0.01
10N-2E-18BD 1	1953	73.02	4-10-53	82.37	10-26-72	81.87	11-5-73	-11.87	0.50
10N-3E-16CCBB 1	1957	56.50	5-12-62	58.50	10-13-71	57.34	10-23-73	-2.34	1.12
11N-1E-7AB 1	1953	95.49	10-17-62	102.65	10-18-68	98.44	11-5-73	-2.44	0.53
11N-2E-21DD 1	1958	75.99	12-11-65	86.93	8-15-72	85.82	10-5-73	-11.82	-0.17
11N-2E-23CC 1	1948	76.98	4-23-52	87.83	10-20-71	87.74	11-5-73	-10.24	-0.29
11N-3E-30DCC 1	1957	16.29	4-13-60	23.15	10-13-71	20.92	11-5-73	-3.92	1.52
12N-1E-6BB 1	1970	101.04	5-13-71	104.68	10-15-71	103.05	11-6-73	-15.05	0.26
12N-1E-27AA 1	1957	8.27	5-10-73	12.60	2-14-57	9.23	11-6-73	2.77	1.59
12N-2E-6AB 1	1957	89.79	3-31-63	96.46	10-13-71	94.82	10-26-73	-14.82	0.27
12N-3E-3CADA 1	1957	3.00	4-17-69	8.05	2-14-57	3.42	11-6-73	0.58	2.20
SHERIDAN COUNTY									
24N-41W-34DA 1	1934	5.52	6-8-35	9.37	10-21-41	7.91	10-29-73	0.39	0.54
24N-42W-27BA 2	1958	8.43	10-30-63	9.83	10-29-73	9.83	10-29-73	-0.33	0.0
24N-43W-15AC 1	1958	8.15	9-4-58	10.85	10-20-72	9.77	10-29-73	0.23	1.08

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM		CHANGE FROM PREVIOUS FALL
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	ASSUMED NORMAL	PREVIOUS FALL	
SHERIDAN COUNTY (CONTINUED)										
24N-44W-14DC	1	1958	3.41	10- 9-61	5.59	10-12-60	3.46	10-29-73	1.04	1.43
24N-44W-18BB	1	1946	3.80	5-11-49	6.72	9-23-65	5.15	10-29-73	-1.15	1.50
24N-46W-10CB	1	1946	2.26	4- 4-46	8.05	10-20-72	6.80	10-29-73	-0.30	1.25
25N-45W-32AD	1	1946	31.50	7-16-49	34.23	10-26-64	32.77	10-29-73	0.23	0.43
29N-46W-10AA	1	1953	32.47	8-25-69	38.95	5-29-54	33.14	10- 5-73	5.36	0.11
29N-46W-24AAB	1	1966	61.68	11- 5-69	65.61	7-29-66	62.61	10-31-73	0.39	0.53
30N-45W-32AAA	1	1966	27.07	10-13-67	28.75	10-27-72	28.65	11- 6-73	1.35	0.10
30N-46W-23DA	1	1960	88.13	11- 7-73	92.51	6-21-60	88.13	11- 7-73	3.87	0.62
31N-44W-10DD	1	1935	0.24	6-25-52	6.46	10-31-72	1.81	11-13-73	1.19	4.65
31N-46W- 8AD	1	1936	2.09	1-29-52	6.20	11- 1-40	3.38	11- 6-73	0.32	1.18
33N-42W-36DA	1	1940	34.51	10- 7-47	38.28	10-31-72	38.26	10-26-73	-2.86	0.02
33N-44W-35CC	1	1967	73.06	11- 8-73	75.67	11-14-67	73.06	11- 8-73	2.94	0.50
SHERMAN COUNTY										
13N-13W-15CB	1	1950	11.28	3-26-57	DRY	10-14-66	11.66	10-29-73	4.34	4.89
14N-14W- 8AC	1	1948	5.79	8-16-50	9.87	10-13-71	6.67	10-29-73	1.03	3.05
14N-14W-23CB	1	1949	9.86	10-29-73	12.74	2-16-55	9.86	10-29-73	2.34	1.75
14N-16W-23BB	1	1950	38.82	11- 8-62	43.04	3-22-57	39.33	10-29-73	0.37	2.67
15N-13W- 1CC	1	1961	57.40	10-17-73	73.80	11- 2-61	57.40	10-17-73	15.10	2.21
15N-14W- 7AB	1	1959	59.97	10-19-73	72.60	4-21-60	59.97	10-19-73	12.03	1.80
15N-15W- 2AB	1	1950	1.34	10- 3-50	5.52	8- 3-64	3.19	10-19-73	-1.69	1.00
16N-14W-12DD	1	1959	37.15	7-23-73	73.88	12-15-59	47.17	10-17-73	25.83	2.76
16N-15W- 8DD	1	1949	0.80	4- 3-69	7.29	10-31-63	2.69	10-19-73	1.11	1.01
16N-15W-28BB	1	1949	18.57	7- 5-51	21.52	7-13-53	18.93	10-29-73	2.07	1.74
SIOUX COUNTY										
24N-57W-35CB	1	1948	4.84	8-31-49	13.48	10- 6-61	9.17	10-23-73	-1.67	1.16
31N-57W-18BC	1	1961	33.68	6-22-62	37.50	9-21-61	36.24	10-25-73	-2.24	0.12

TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM		CHANGE FROM PREVIOUS FALL
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	ASSUMED NORMAL	PREVIOUS FALL	
STANTON COUNTY										
22N-2E-8DD	1	1950	38.15	4-6-50	47.65	10-31-72	46.55	10-25-73	-3.55	1.10
23N-3E-6CC	1	1951	15.51	11-7-51	22.96	10-13-64	22.41	10-25-73	-2.21	0.50
23N-3E-19BC	1	1951	25.98	5-28-51	31.54	10-31-72	31.18	10-25-73	-3.78	0.36
24N-3E-34BD	1	1951	8.68	8-29-51	21.16	3-13-57	18.81	10-25-73	-2.11	1.03
THAYER COUNTY										
1N-3W-24CCB	1	1968	159.78	5-21-68	171.56	5-30-73	169.13	10-24-73	-7.13	-0.53
1N-4W-2DAAD	1	1968	109.13	5-27-70	111.46	10-21-71	110.64	10-24-73	-1.64	0.06
2N-1W-27DDB	1	1968	48.98	10-24-73	51.84	6-5-68	48.98	10-24-73	3.02	1.76
2N-2W-4DAB	1	1968	8.90	10-24-73	12.24	10-15-68	8.90	10-24-73	2.10	2.54
2N-3W-25ABB	1	1968	111.47	10-24-73	112.50	10-15-68	111.47	10-24-73	0.53	0.32
2N-4W-11CDB	1	1968	108.53	5-21-68	110.31	10-26-72	110.25	10-24-73	-1.25	0.06
3N-1W-5AADA	1	1968	17.38	10-24-73	23.76	6-3-69	17.38	10-24-73	2.62	2.57
3N-2W-22DA	1	1964	101.83	11-9-64	104.68	10-21-71	104.16	10-24-73	-2.16	0.19
3N-3W-2CCA	1	1968	95.35	5-21-68	99.60	10-21-71	99.20	10-24-73	-3.20	0.16
3N-4W-2AA	1	1968	96.90	5-27-69	137.35	8-10-71	101.52	10-9-73	-6.52	-0.10
4N-2W-16CCB	1	1964	75.56	11-9-64	80.78	10-26-72	80.53	10-24-73	-5.53	0.25
4N-3W-11CCD	1	1968	86.68	5-21-68	102.85	10-23-69	92.90	10-24-73	-8.90	-0.51
4N-4W-36BB	1	1964	93.97	11-9-64	101.19	10-21-71	100.52	10-24-73	-7.52	-0.18
THOMAS COUNTY										
21N-28W-23BD	1	1967	12.47	8-20-68	13.42	5-3-73	13.20	10-15-73	-0.70	0.02
23N-28W-9DA	1	1934	8.73	10-16-70	10.98	7-23-40	9.66	10-9-73	-0.16	0.12
24N-30W-20AB	1	1934	1.57	9-4-51	3.83	10-16-70	3.48	10-9-73	-0.98	0.03
THURSTON COUNTY										
25N-6E-22BDB	1	1964	14.08	6-29-67	19.36	10-27-72	18.52	10-25-73	-2.52	0.84

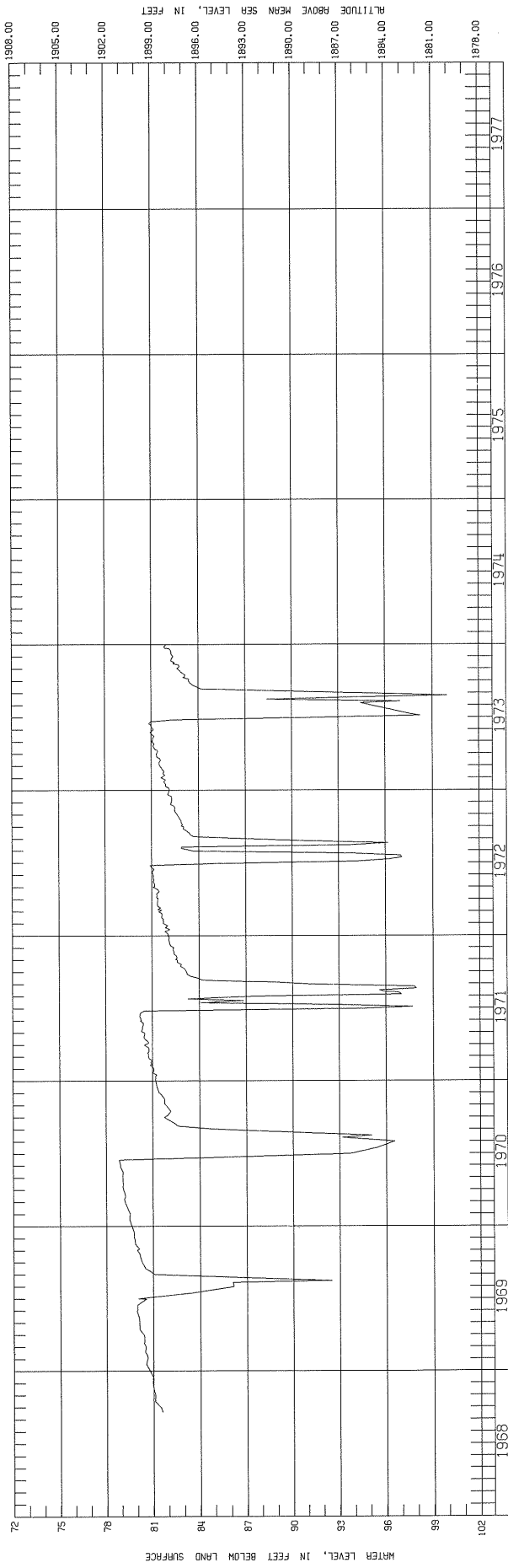
TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM ASSUMED NORMAL		CHANGE FROM PREVIOUS FALL	
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	FROM ASSUMED NORMAL	FROM PREVIOUS FALL		
VALLEY COUNTY											
17N-13W-5AD	1	15.12	5-17-60	26.04	10-15-71	17.66	10-30-73	3.34		5.94	
17N-16W-26DC	1	2.70	4-1-49	6.83	12-26-46	4.64	10-25-73	0.66		0.64	
18N-13W-23DC	1	2.33	8-21-58	7.74	5-29-68	2.55	10-30-73	2.45		0.84	
18N-14W-20DA	1	8.38	6-26-62	21.50	10-19-72	15.84	10-30-73	-4.84		5.66	
18N-15W-13ACD	1	63.96	1-20-74	122.35	8-25-72	66.78	10-5-73	2.22		3.50	
18N-16W-30CC	1	1.12	7-23-62	5.90	3-1-73	3.32	10-4-73	0.68		0.78	
19N-13W-35DD	1	10.78	10-17-66	14.39	7-26-61	11.25	10-30-73	1.25	NO RECORD		
19N-14W-5CC	1	18.95	10-19-72	26.28	10-26-64	19.72	10-30-73	2.38		-0.77	
19N-14W-13DA	1	18.41	9-4-57	23.93	4-26-51	19.08	10-30-73	3.12		1.09	
19N-14W-36BB	1	28.51	6-30-49	58.57	11-6-67	29.89	10-30-73	-0.19		1.35	
19N-15W-21BB	1	39.63	3-28-63	45.83	10-19-72	44.05	10-30-73	-2.05		1.78	
19N-16W-24AD	1	43.13	10-10-62	52.77	10-19-72	48.10	10-30-73	-3.10		4.67	
20N-15W-35AA	1	56.94	9-28-50	63.30	8-9-56	60.22	10-30-73	1.28		1.00	
WASHINGTON COUNTY											
18N-11E-3AA	1	7.66	10-18-65	30.91	10-18-40	10.63	10-25-73	18.67		3.70	
WAYNE COUNTY											
27N-1E-36DD	1	7.25	5-16-52	18.63	10-23-68	10.61	10-25-73	-0.01		1.52	
WEBSTER COUNTY											
1N-9W-9CC	1	3.15	10-15-73	9.22	3-14-57	3.15	10-15-73	4.15		3.75	
1N-11W-11AB	1	1.34	7-12-51	10.56	4-5-57	4.85	10-15-73	5.15		2.25	
1N-12W-2BB	1	0.94	6-21-49	8.45	12-14-56	3.56	10-15-73	1.14		2.64	
2N-10W-36DB	1	25.65	6-22-35	29.80	9-8-64	27.58	10-15-73	-0.98		1.27	
3N-9W-24DCC	1	83.95	10-15-73	90.10	10-21-68	83.95	10-15-73	2.05		2.60	
3N-11W-3CD	1	179.60	5-17-73	184.03	10-21-68	179.85	10-16-73	0.15		0.05	
4N-10W-11CCD	1	79.53	5-27-68	85.25	10-19-71	84.70	10-16-73	-4.70		-0.20	
4N-11W-3CBB	1	86.55	5-5-70	93.30	10-19-71	93.05	10-16-73	-4.05		0.05	
4N-12W-23BAA	1	98.55	5-5-70	103.10	10-17-72	103.00	10-16-73	-3.00		0.10	

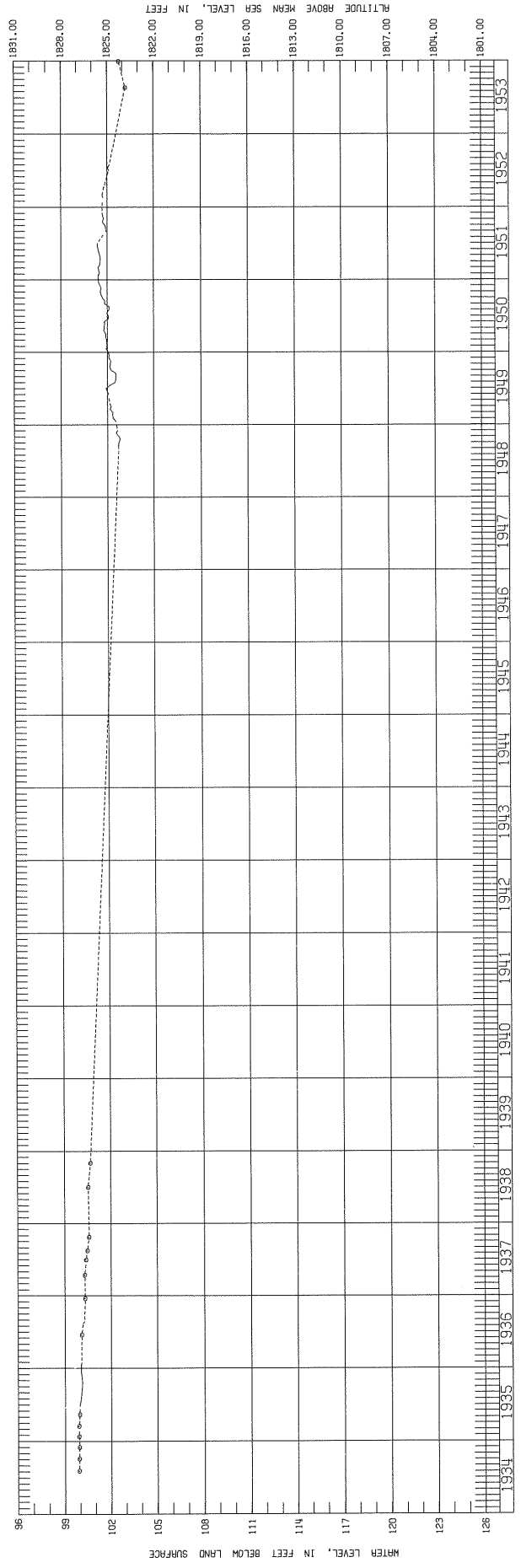
TABLE 1.--WATER LEVELS AND THEIR DEPARTURES FROM ASSUMED NORMAL AND FROM PREVIOUS FALL--CONT.

WELL LOCATION NUMBER	EARLIEST RECORD	HIGH		LOW		1973		DEPARTURE FROM PREVIOUS FALL		
		WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	ASSUMED NORMAL	CHANGE	
21N-11W-25AA	1	1963	2.97	5-1-64	5.43	8-2-64	4.00	10-23-73	0.0	0.88
WHEELER COUNTY										
9N-1W-8CB	1	1958	21.36	6-10-59	27.50	9-15-64	23.77	11-9-73	-0.77	1.92
9N-2W-16DD	1	1959	33.45	5-7-59	36.59	10-27-72	35.61	11-9-73	-3.61	0.98
9N-3W-4BB	1	1958	77.00	6-15-58	85.77	11-9-73	85.77	11-9-73	-9.77	-0.49
9N-3W-31BA	1	1958	92.60	6-15-60	100.00	9-15-67	98.46	11-9-73	-6.46	-0.05
9N-4W-6DD	1	1959	79.44	6-24-59	91.80	9-6-73	90.13	10-8-73	-10.13	-0.24
YORK COUNTY										
10N-1W-18DA	1	1958	101.00	6-15-58	109.00	6-15-60	106.07	11-9-73	-5.07	0.0
10N-1W-23BC	1	1958	89.51	6-4-59	94.50	9-15-64	93.35	11-9-73	-3.35	0.26
10N-3W-4AA	1	1962	62.20	10-15-62	69.51	10-14-71	68.89	11-12-73	-8.89	0.43
10N-3W-13BB	1	1958	82.00	6-15-58	91.14	11-6-72	90.95	11-12-73	-8.95	0.19
10N-4W-6DA	1	1958	81.50	6-15-58	92.03	11-6-72	91.64	11-12-73	-11.64	0.39
11N-1W-14CB	1	1959	98.50	4-15-63	104.83	10-19-71	104.49	11-9-73	-6.49	0.01
11N-1W-29AB	1	1958	107.10	6-15-58	119.00	9-15-64	113.50	11-9-73	-8.50	-0.05
11N-2W-31BA	2	1958	82.70	6-19-61	130.63	8-25-71	94.43	10-8-73	-11.93	-0.38
11N-2W-31BA	3	1969	88.65	4-20-70	110.15	6-30-71	94.73	10-8-73	-9.73	0.62
11N-3W-16CC	1	1958	37.00	6-15-58	55.30	9-15-64	46.48	11-7-73	-10.48	0.57
11N-4W-25BC	1	1948	63.08	12-28-51	78.81	10-25-72	78.32	11-7-73	-12.62	0.49
11N-4W-31BA	1	1948	70.85	4-23-52	88.86	10-25-72	88.67	11-7-73	-17.67	0.19
12N-1W-32AB	1	1958	87.40	7-5-60	94.86	10-26-71	94.43	11-8-73	-12.43	0.09
12N-2W-2CC	1	1958	75.00	6-15-58	85.28	10-26-71	84.09	11-8-73	-11.09	0.45
12N-2W-31AA	1	1958	69.50	6-15-60	78.47	11-6-72	77.75	11-8-73	-9.75	0.72
12N-3W-1DB	1	1958	92.00	6-15-58	104.27	10-26-71	101.14	11-8-73	-11.14	1.90
12N-3W-29DD	1	1959	81.31	5-20-69	89.50	10-10-72	87.87	11-8-73	-10.87	1.63
12N-4W-10CB	1	1953	73.16	5-13-53	92.63	10-26-71	91.93	11-7-73	-18.93	0.67

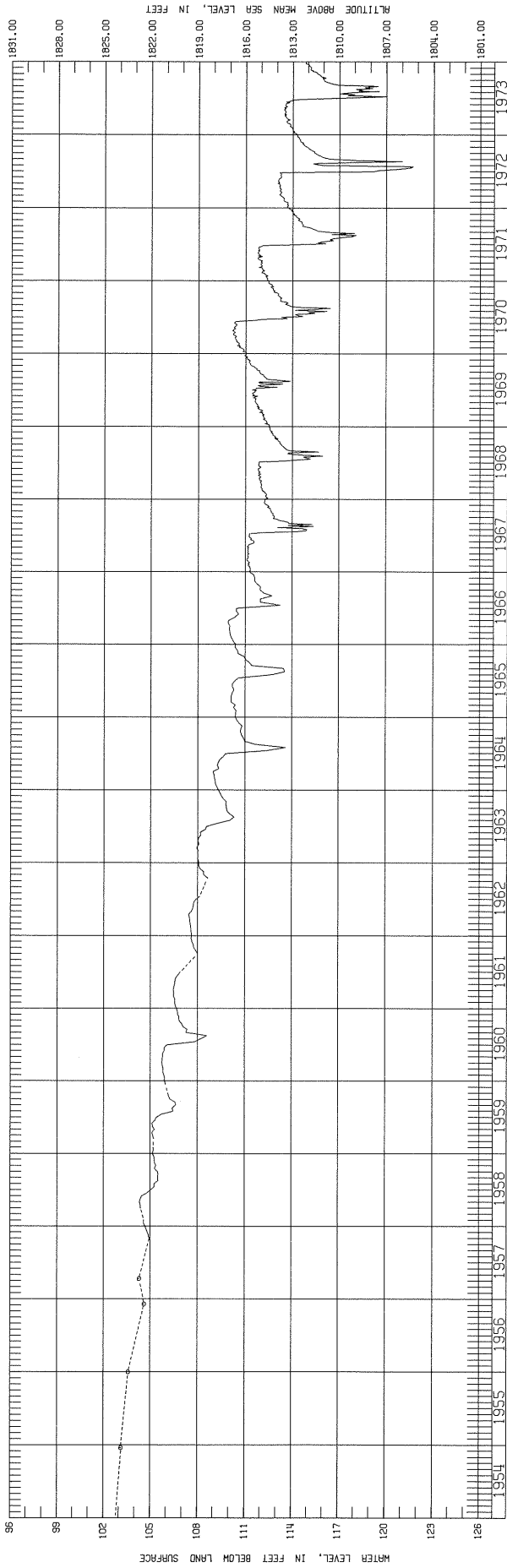
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ROSELAND RECORDER WELL  
HYDROGRAPH OF WELL 6N 11W 17CB 1, ADAMS COUNTY



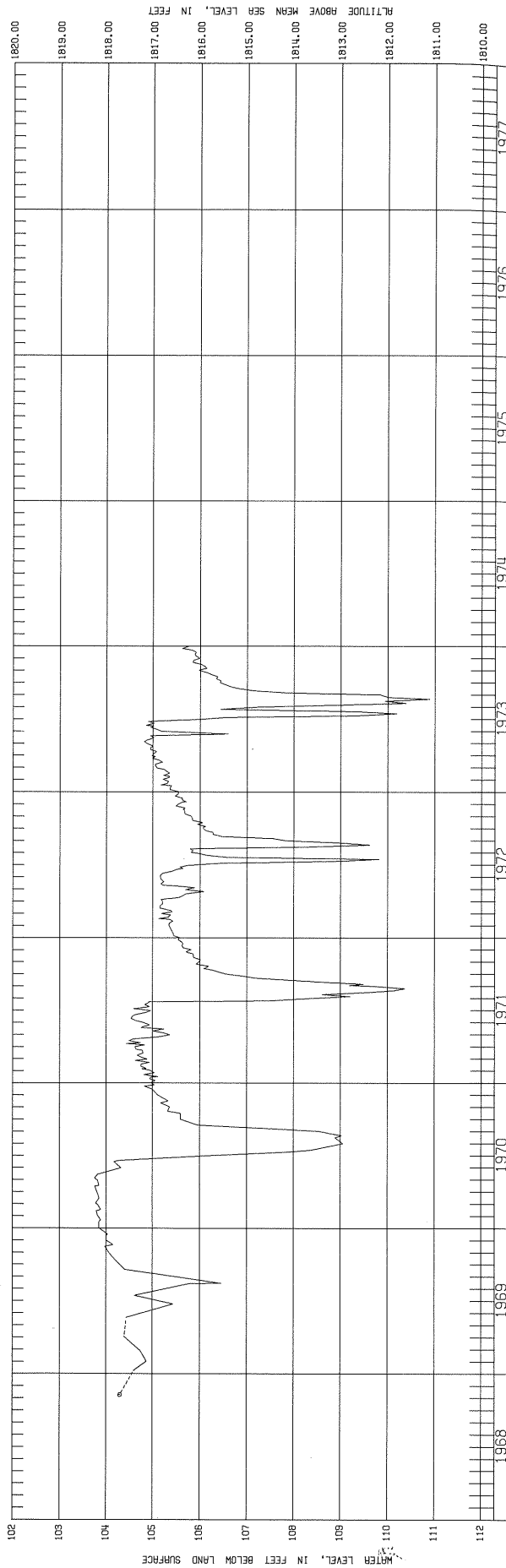
ADAMS COUNTY  
HASTINGS RECORDER WELL  
HYDROGRAPH OF WELL 7N 10W 23AB 1, ADAMS COUNTY



ADAMS COUNTY  
 HASTINGS RECORDER WELL  
 HYDROGRAPH OF WELL 7N 10W 23RB 1, ADAMS COUNTY

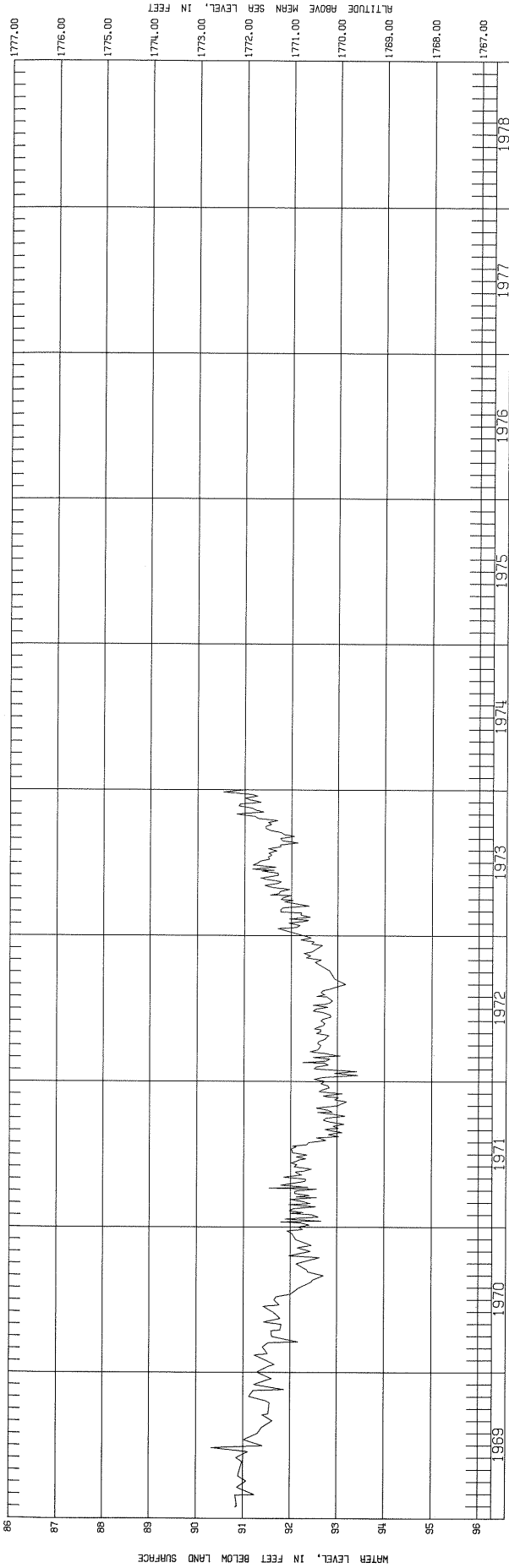


ANTELOPE COUNTY  
 ELGIN RECORDER WELL  
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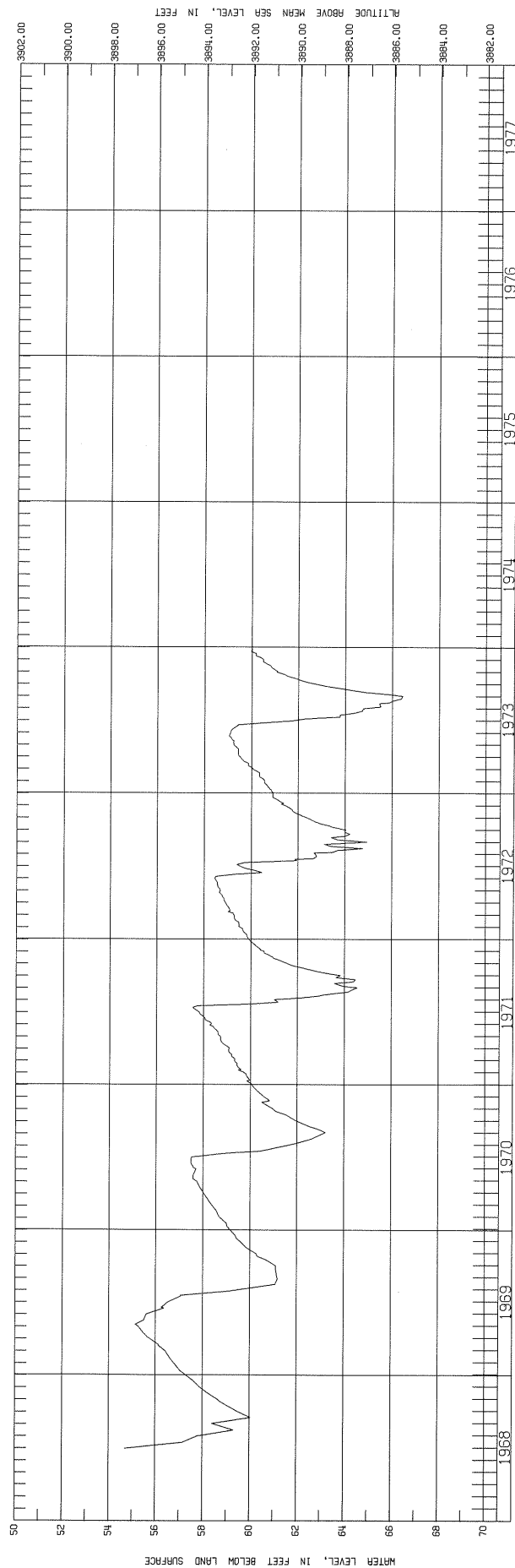




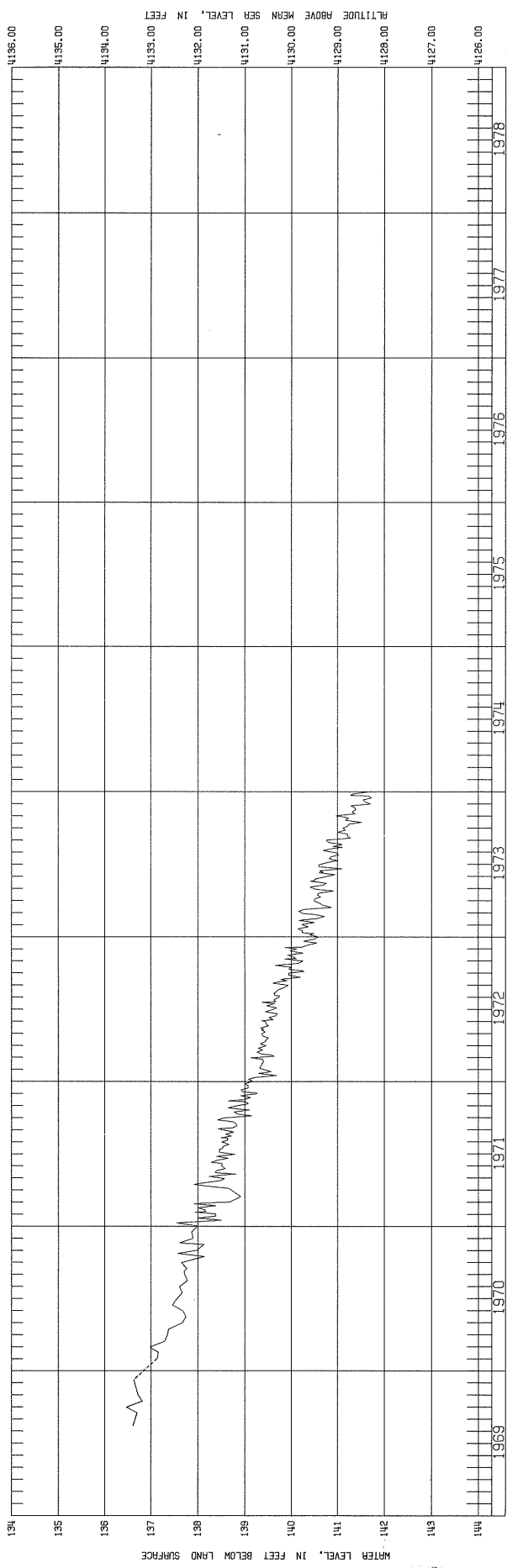
ANTELOPE COUNTY  
 BRUNSWICK RECORDER WELL  
 HYDROGRAPH OF WELL 27N 5W 1799A 1, ANTELOPE COUNTY



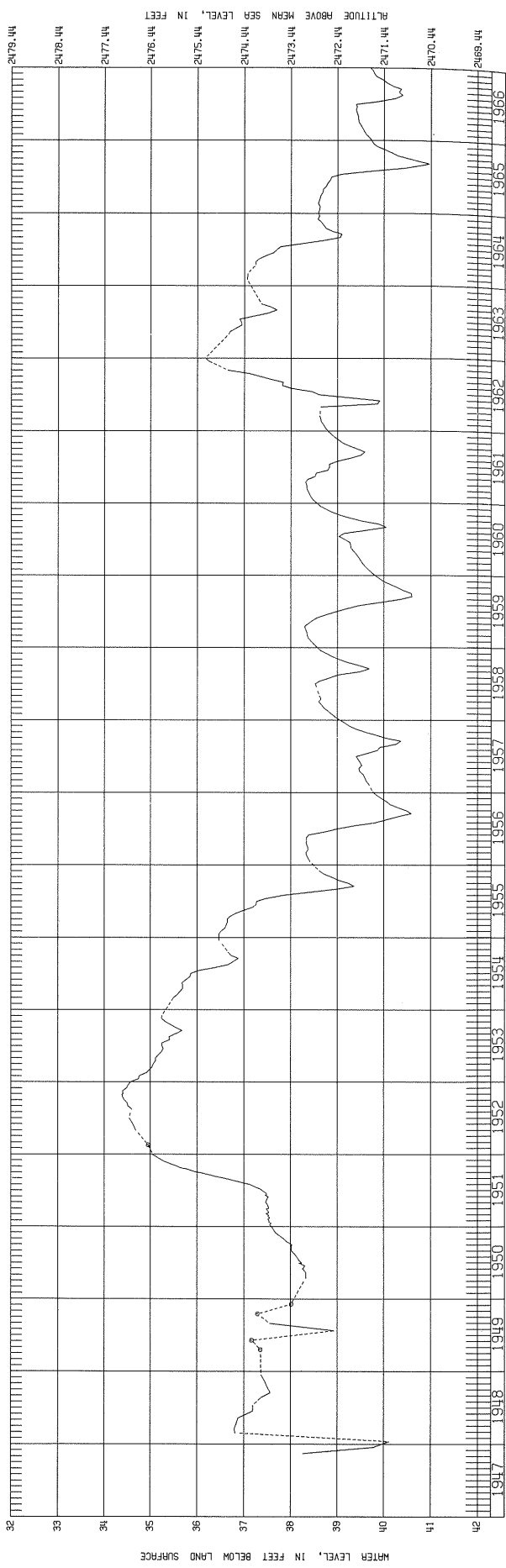
BOX BUTTE COUNTY  
 ALLIANCE RECORDER WELL  
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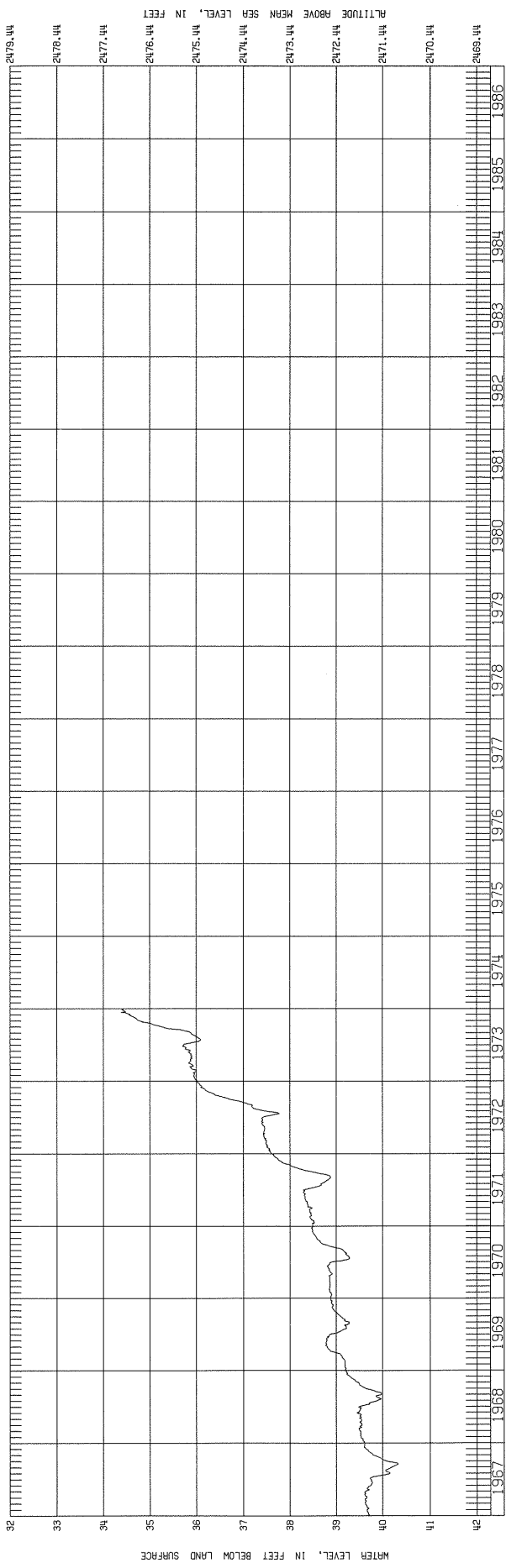
BOX BUTTE COUNTY  
 HEMINGFORD RECORDER WELL  
 HYDROGRAPH OF WELL 26N 49W 6CC 1. BOX BUTTE COUNTY



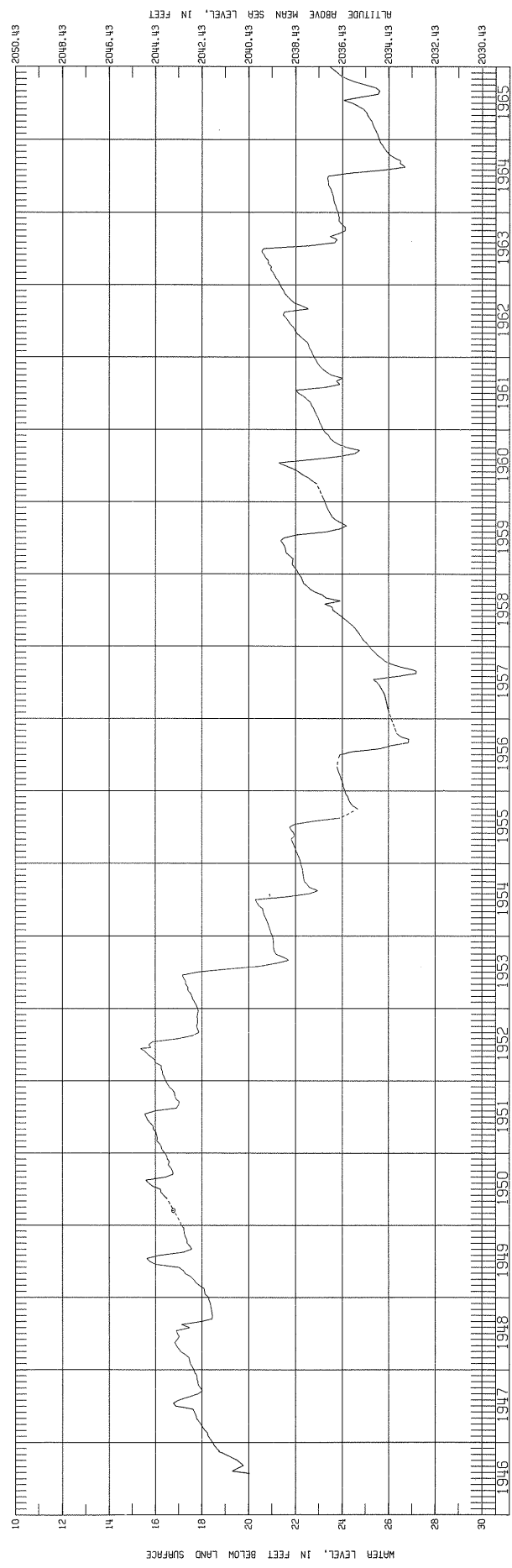
BROWN COUNTY  
 AINSWORTH RECORDER WELL  
 HYDROGRAPH OF WELL 30N 21W 19CC 1. BROWN COUNTY



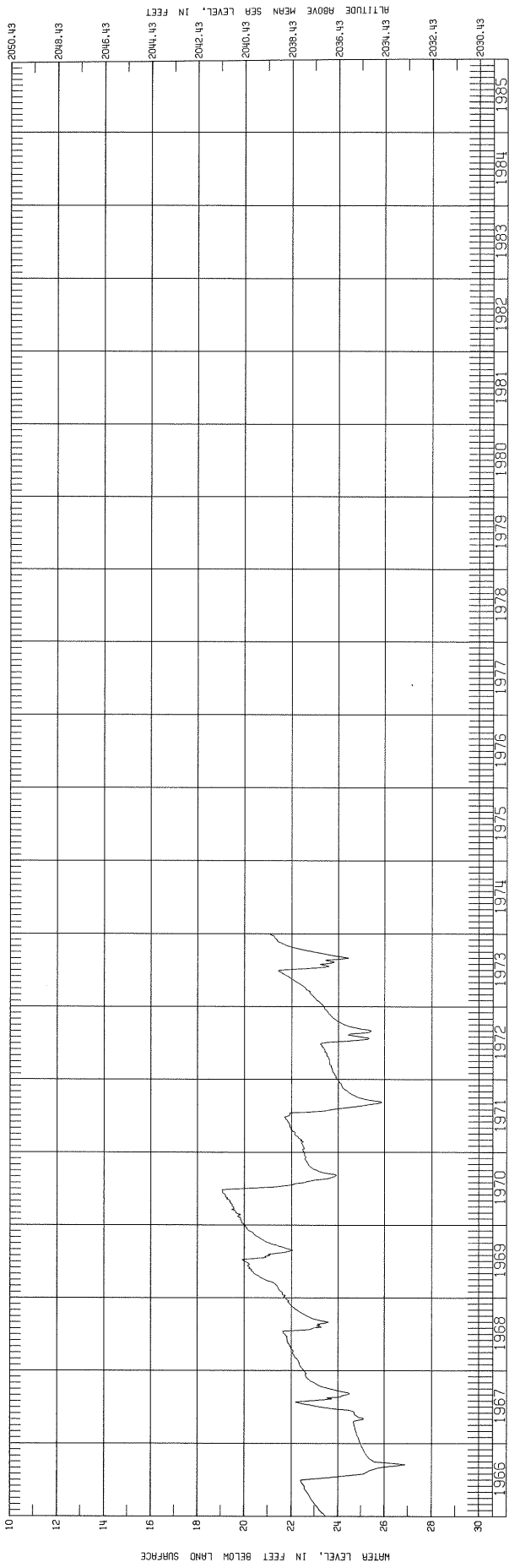
BROWN COUNTY  
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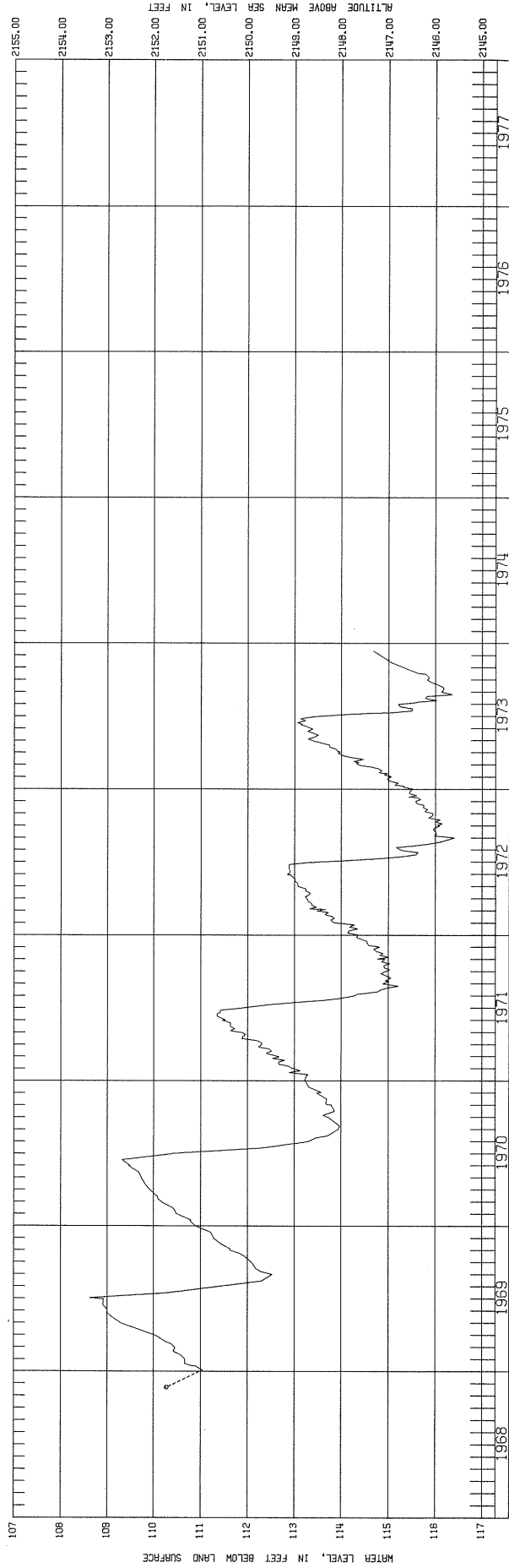
BUFFALO COUNTY  
 GIBBON RECORDER WELL  
 HYDROGRAPH OF WELL 30N 14W 10C 1, BUFFALO COUNTY



BUFFALO COUNTY  
 HYDROGRAPH OF WELL 9N 14W 10C 1, BUFFALO COUNTY

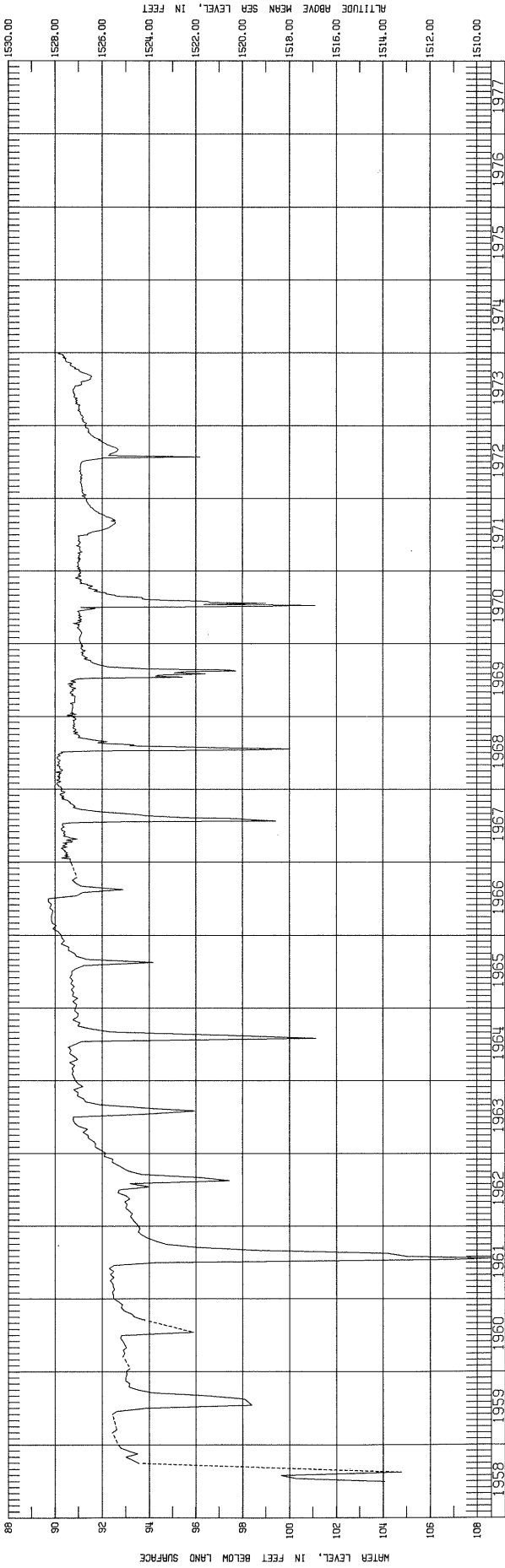


BUFFALO COUNTY  
 HYDROGRAPH OF WELL 10N 16W 50C 1, BUFFALO COUNTY



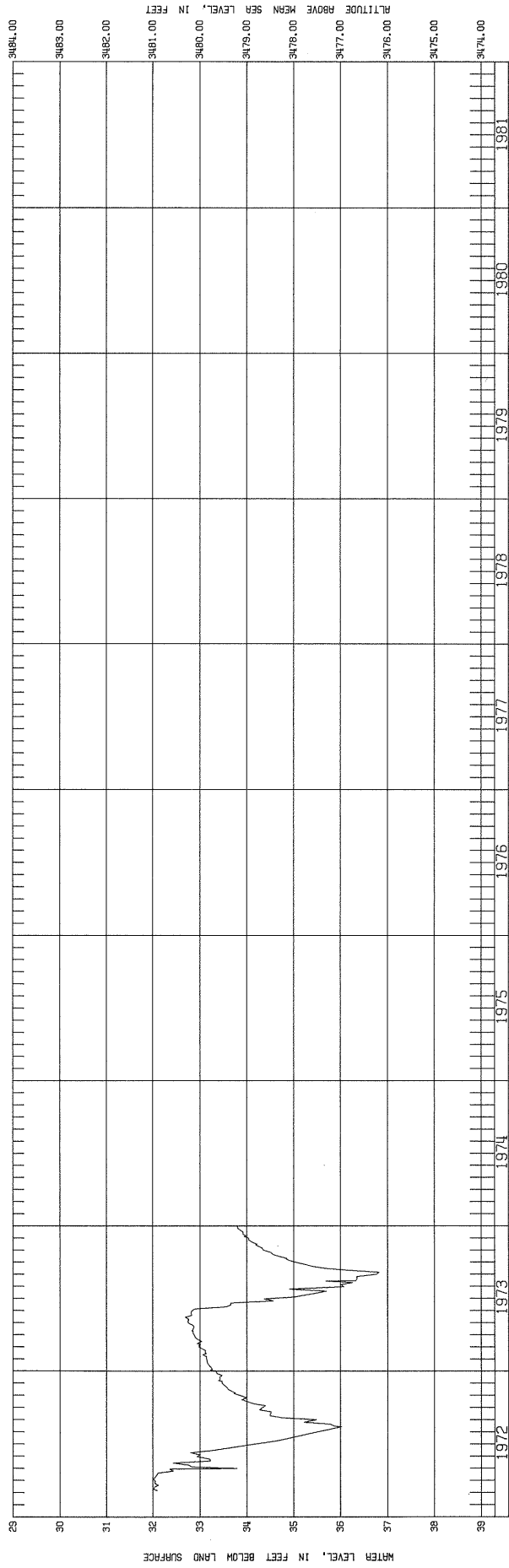
RISING CITY RECORDER WELL  
HYDROGRAPH OF WELL 15N 1E 2700 1, BUTLER COUNTY

BUTLER COUNTY

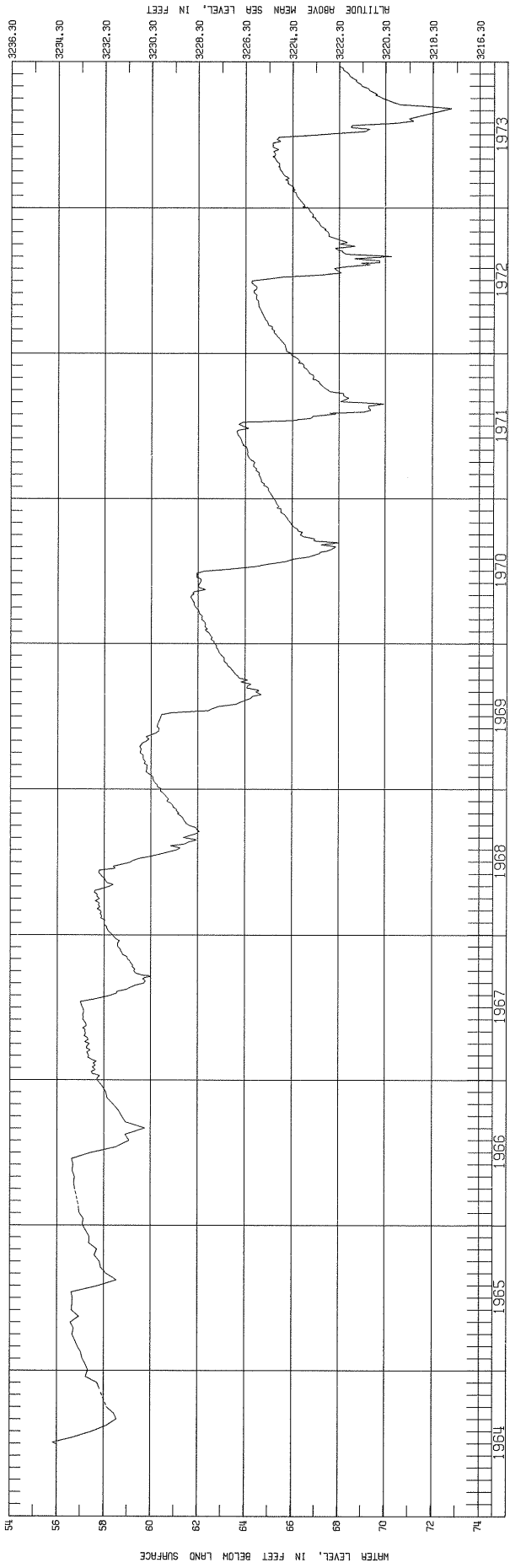


CHAMPION RECORDER WELL  
HYDROGRAPH OF WELL 6N 41W 21CCC 1, CHASE COUNTY

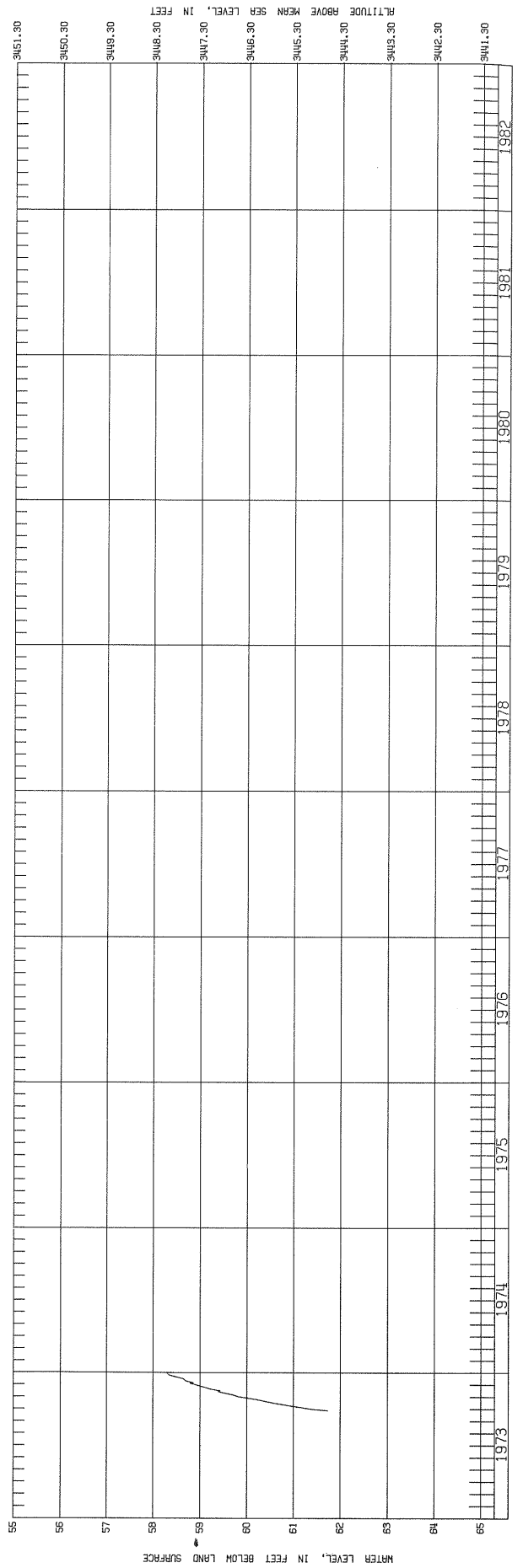
CHASE COUNTY



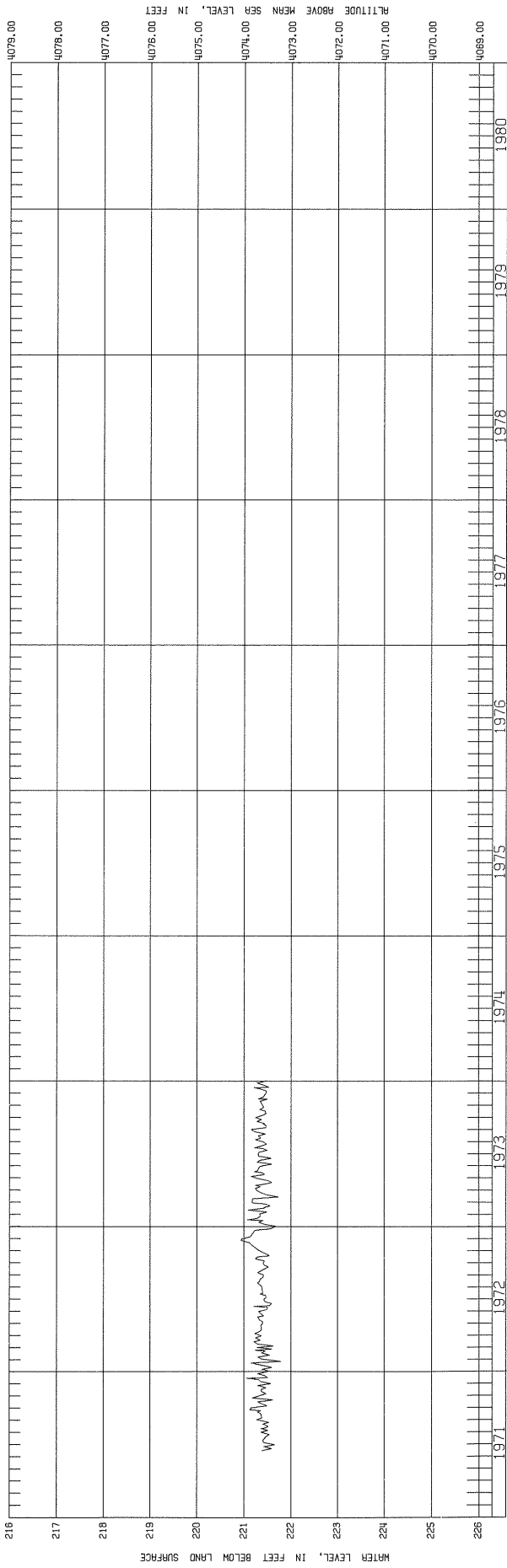
CHASE COUNTY  
 IMPERIAL RECORDER WELL  
 7N 39W 29C8B 1, CHASE COUNTY



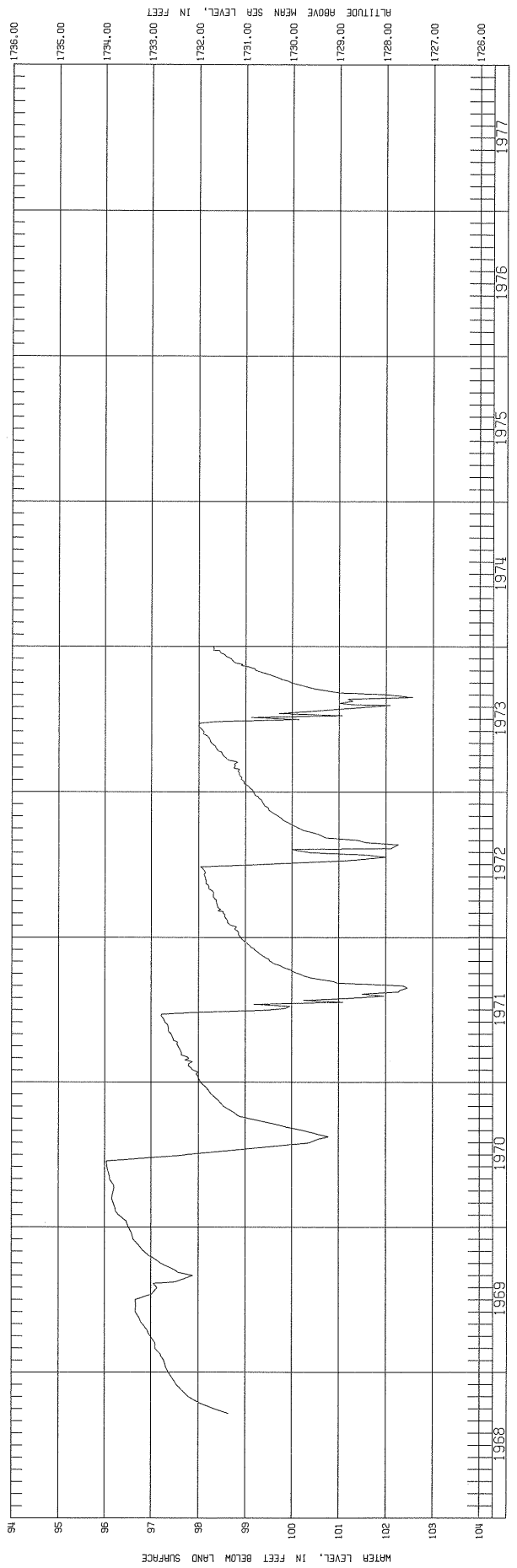
CHASE COUNTY  
 LAMAR RECORDER WELL  
 7N 41W 110A 1, CHASE COUNTY



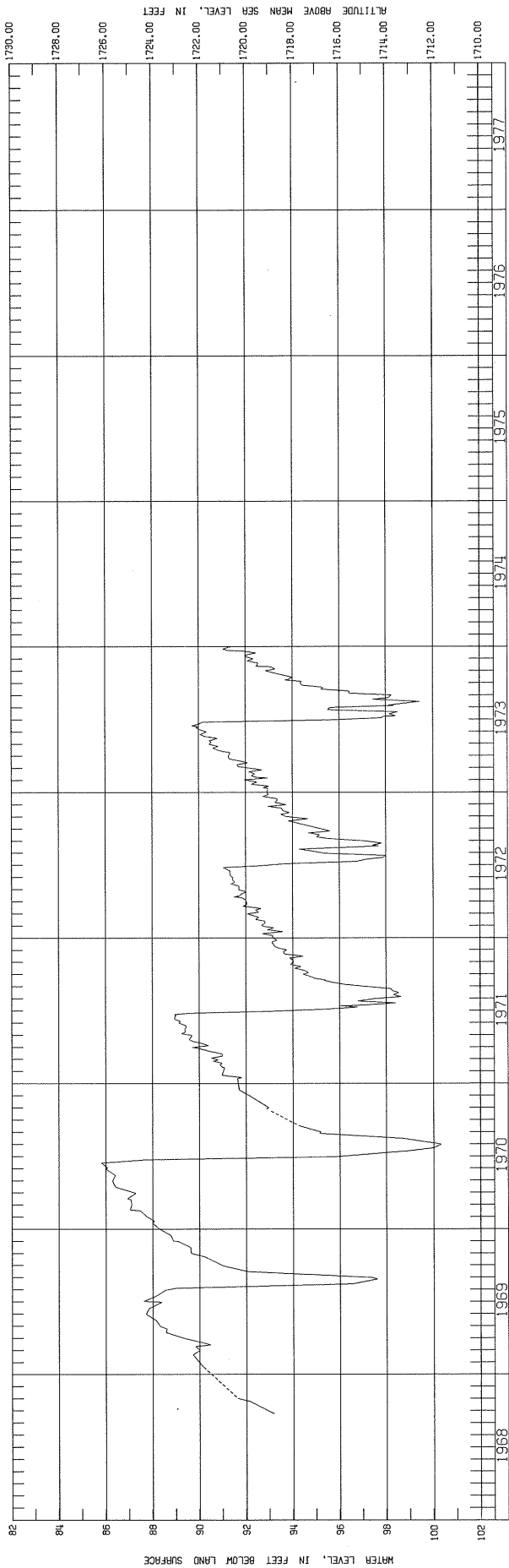
CHEYENNE COUNTY  
 GURLEY RECORDER WELL  
 HYDROGRAPH OF WELL 16N 49W 1988B 1, CHEYENNE COUNTY



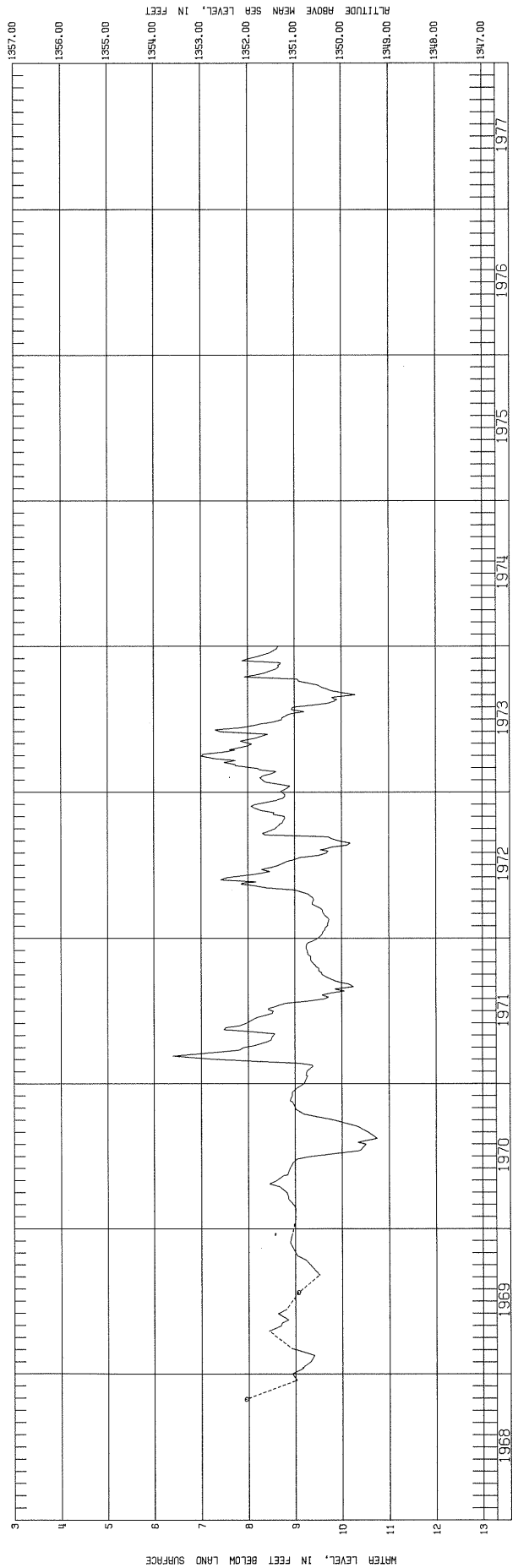
CLAY COUNTY  
 GLENNVILLE RECORDER WELL  
 HYDROGRAPH OF WELL 6N 8W 210D 1, CLAY COUNTY



HARVARD RECORDER WELL  
HYDROGRAPH OF WELL 8N 7W 2388 1, CLAY COUNTY

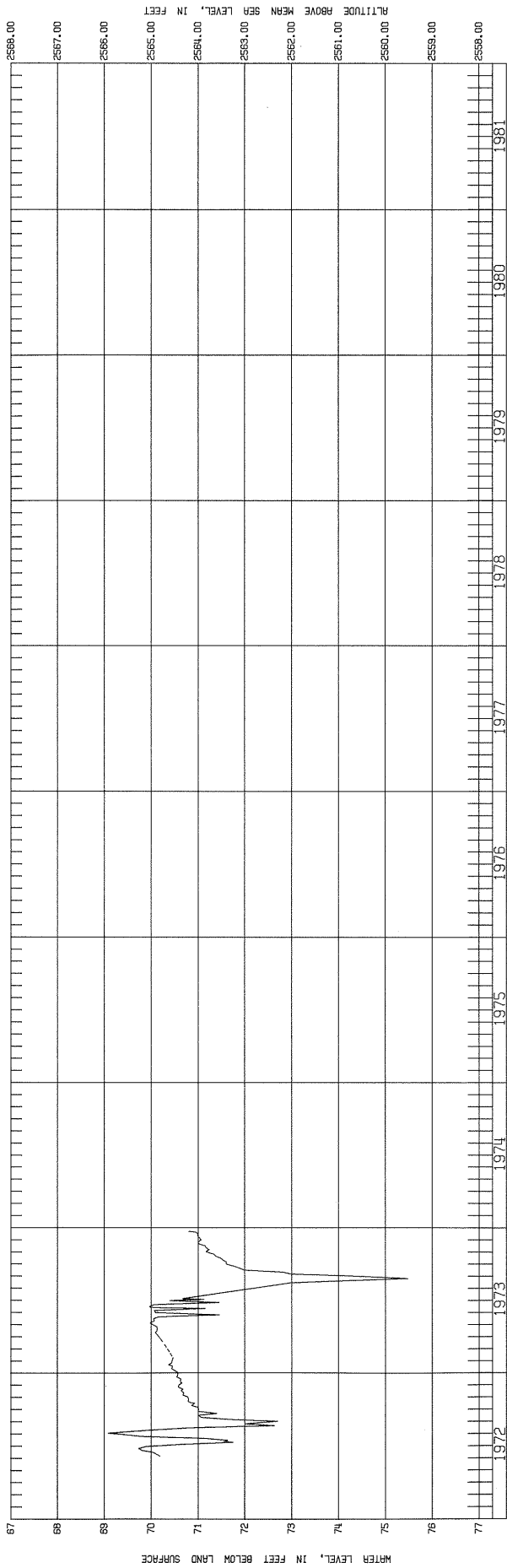


SCHUTTLER RECORDER WELL  
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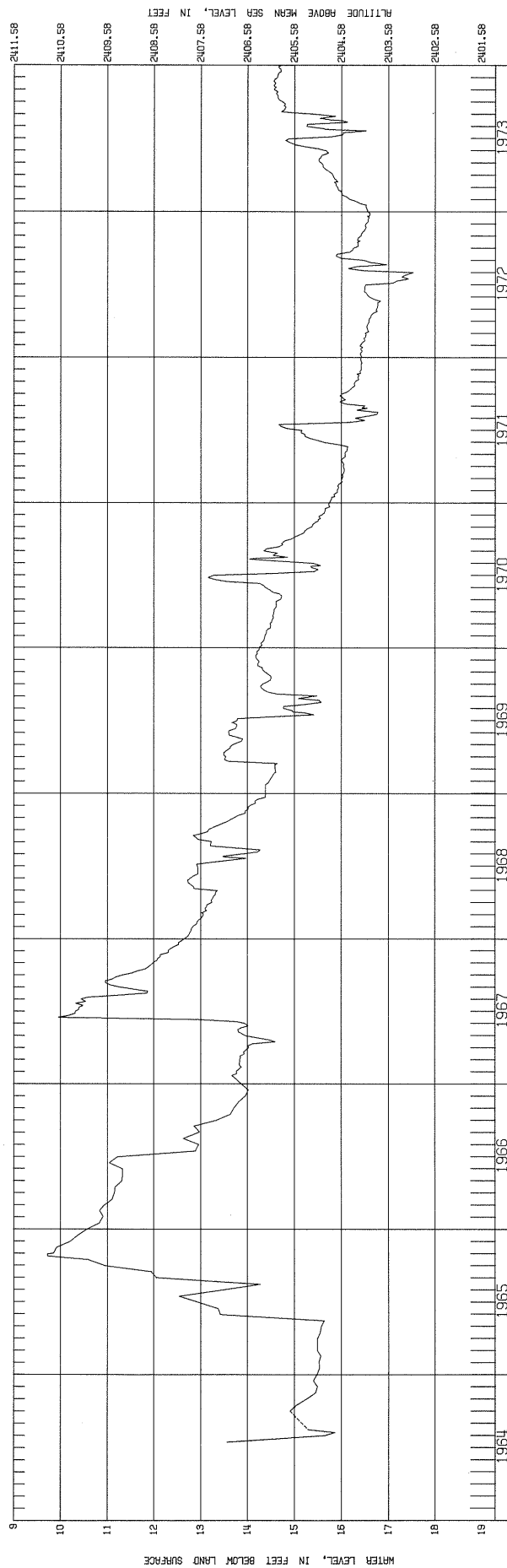




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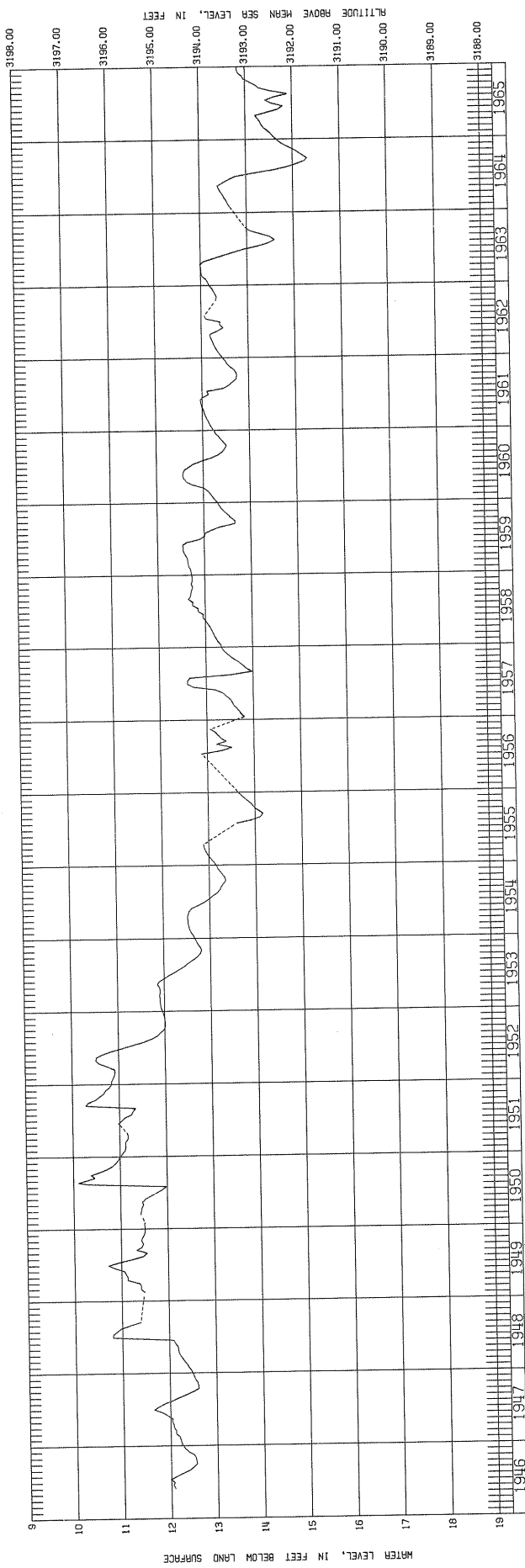


LEXINGTON RECORDER WELL  
 HYDROGRAPH OF WELL 10N 21K 18000 1, DAWSON COUNTY



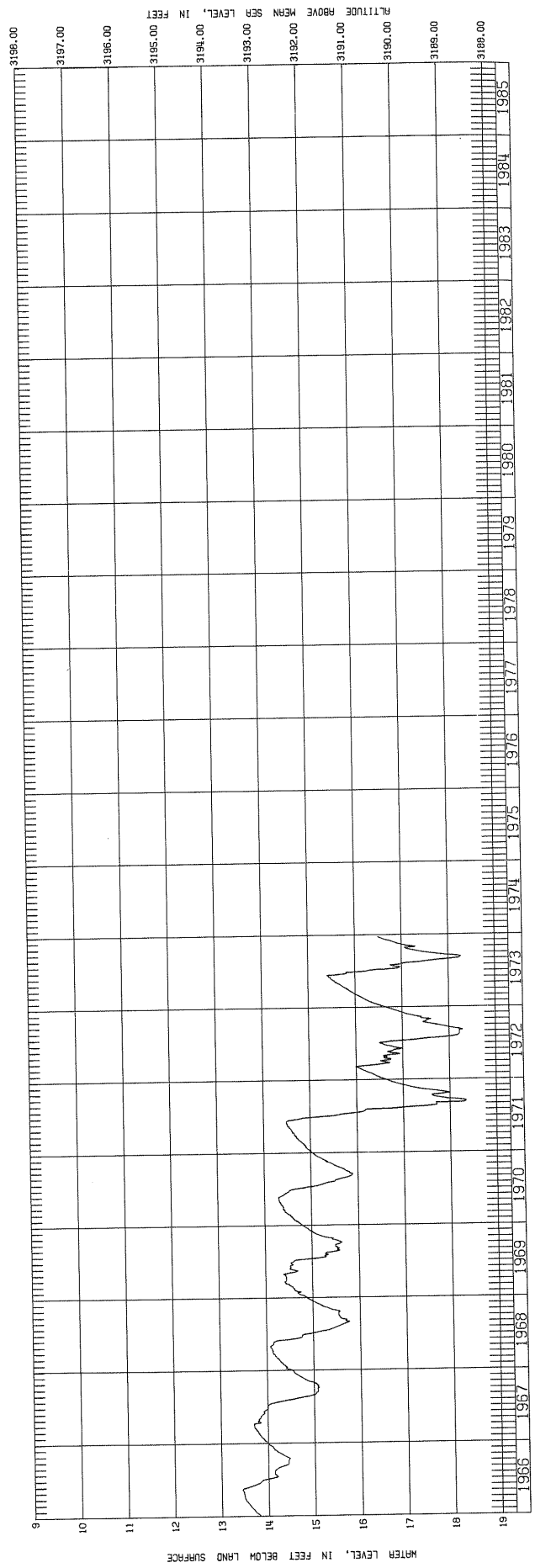
HAIGLER RECORDER WELL  
IN 40M 2988 1, DUNDY COUNTY

DUNDY COUNTY



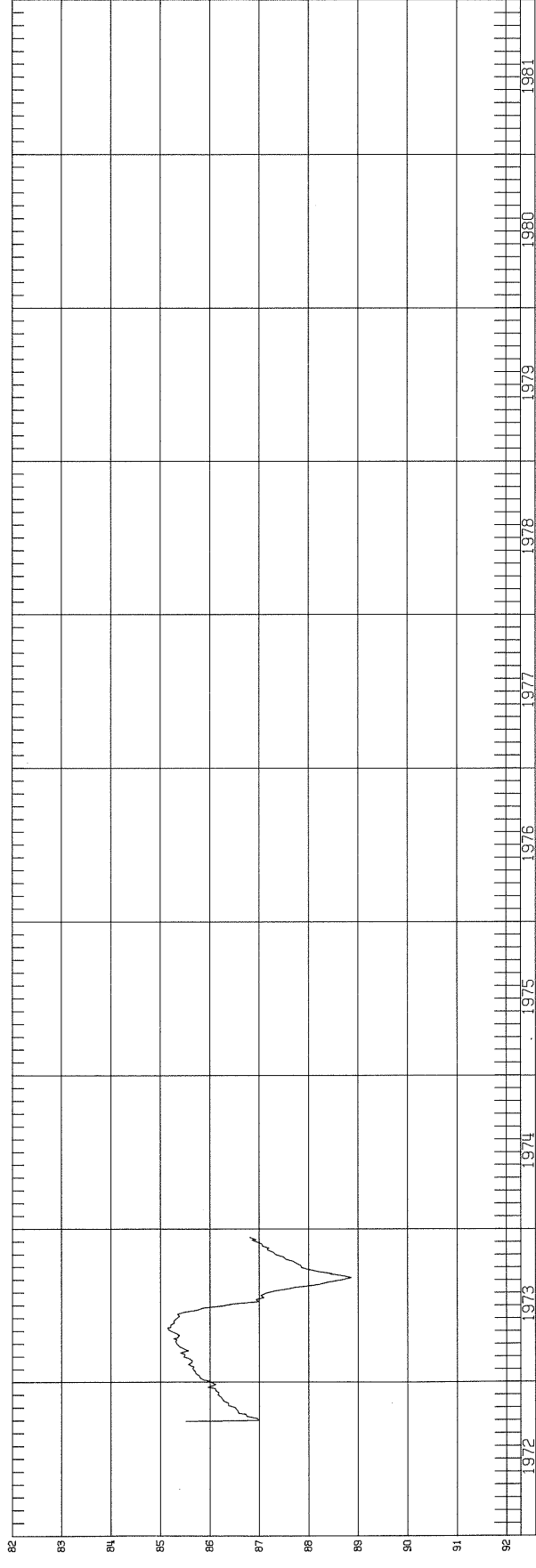
HAIGLER RECORDER WELL  
IN 40M 2988 1, DUNDY COUNTY

DUNDY COUNTY



BENKELMAN RECORDER WELL  
 HYDROGRAPH OF WELL 2N 38W 10DD 1, DUNDY COUNTY

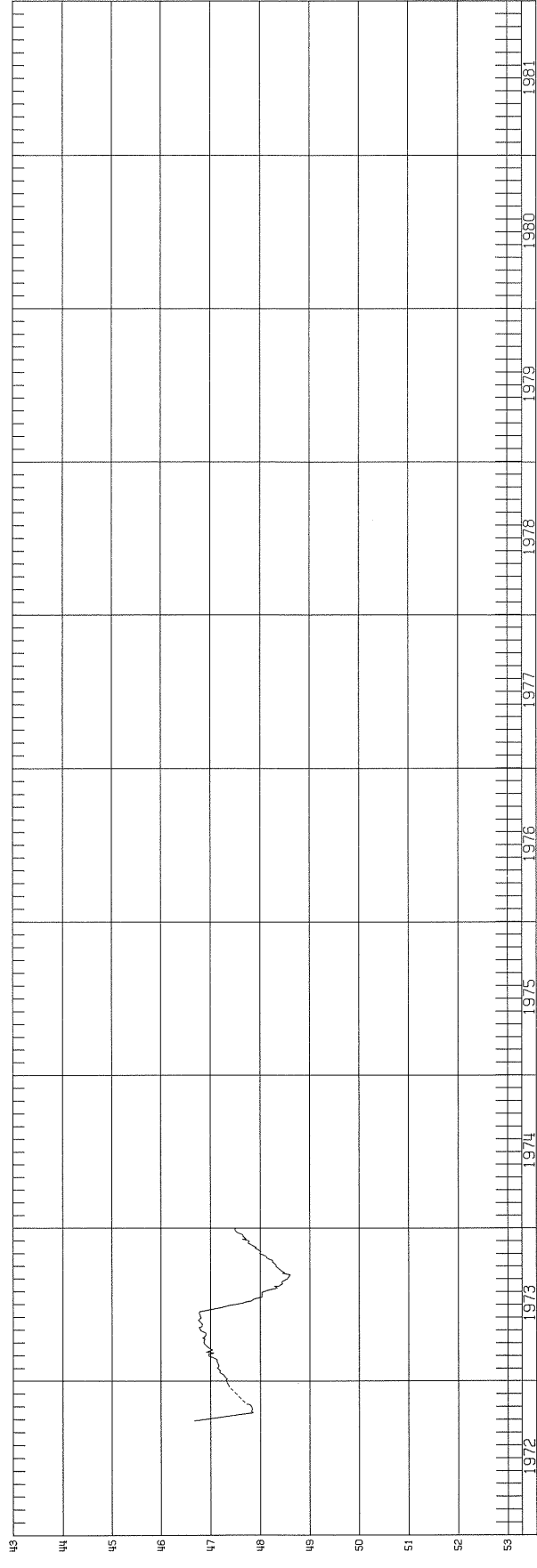
DUNDY COUNTY



WATER LEVEL, IN FEET BELOW LAND SURFACE  
 ALTITUDE ABOVE MEAN SEA LEVEL, IN FEET  
 "NOT DETERMINED"

ENDERS RECORDER WELL  
 HYDROGRAPH OF WELL 4N 38W 30BCC 1, DUNDY COUNTY

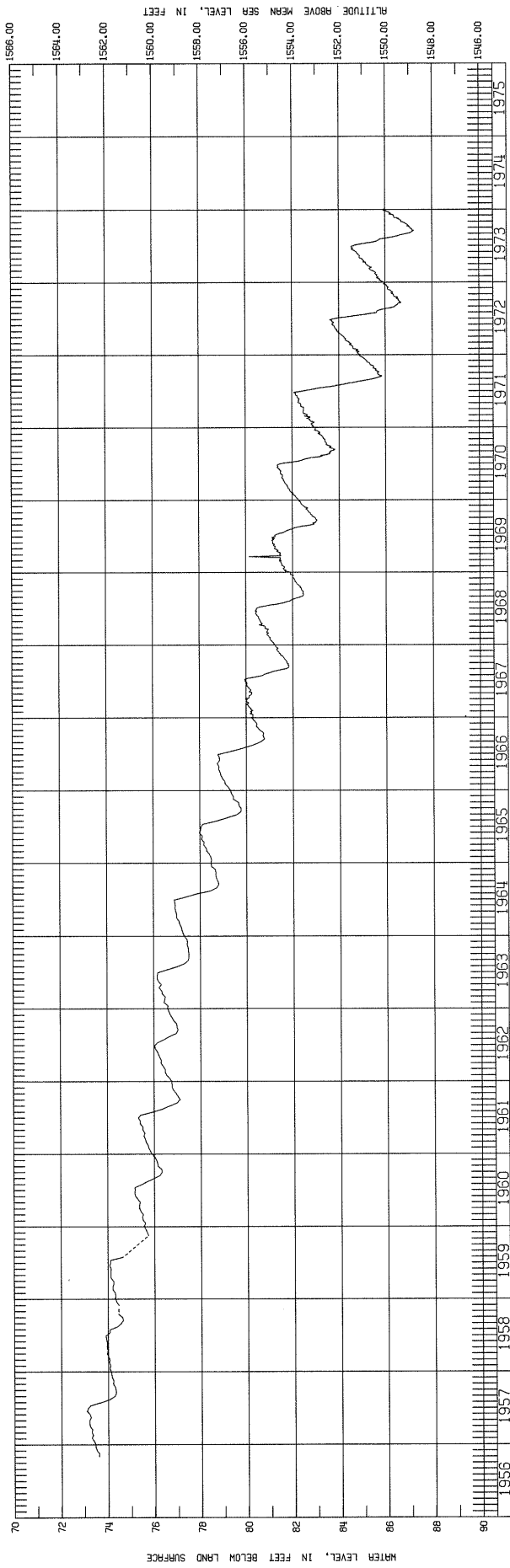
DUNDY COUNTY



WATER LEVEL, IN FEET BELOW LAND SURFACE  
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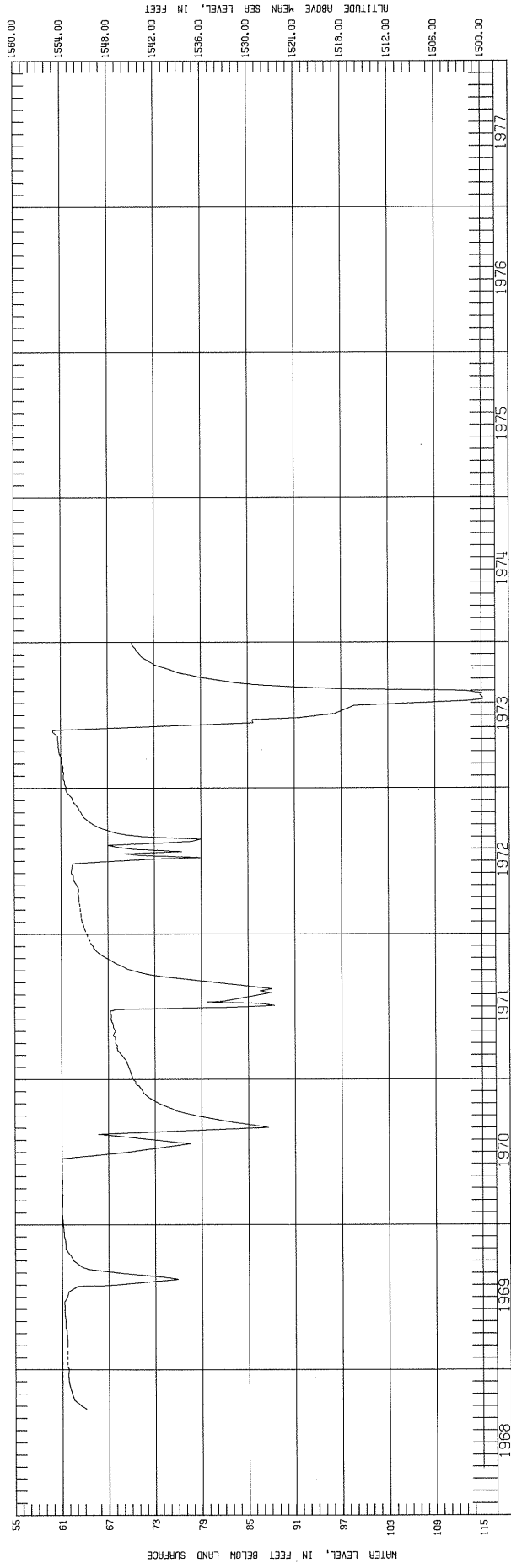
SHICKLEY RECORDER WELL  
 HYDROGRAPH OF WELL SN 44 126C 1, FILLMORE COUNTY

FILLMORE COUNTY

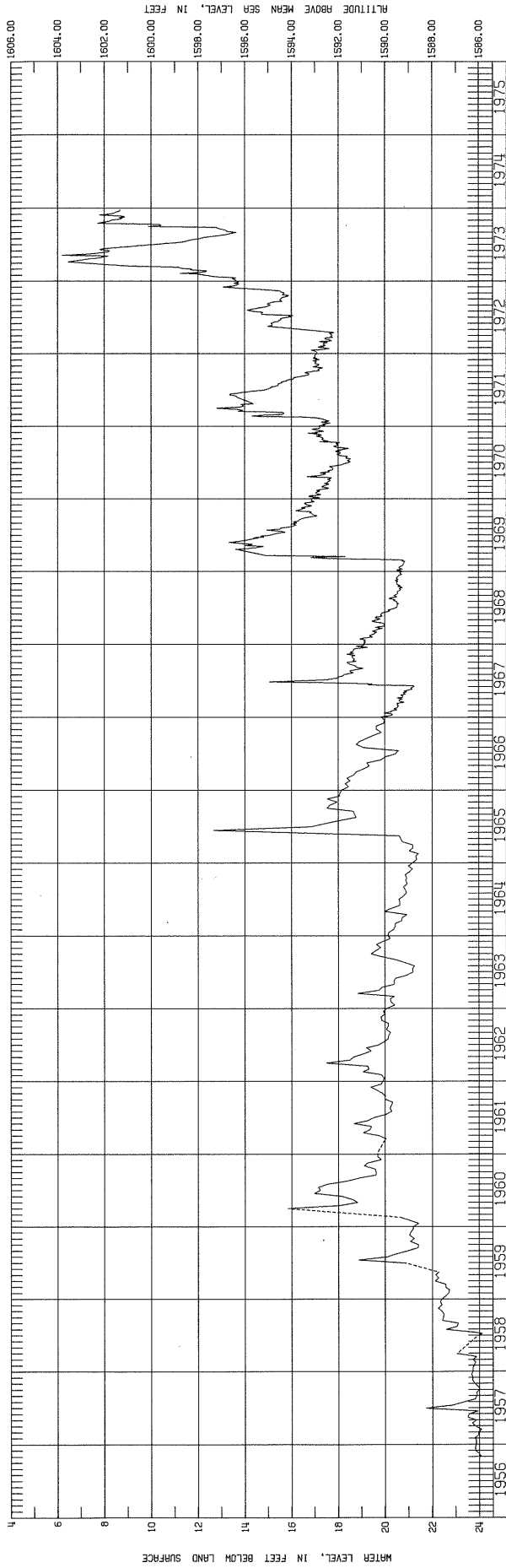


GENEVA RECORDER WELL  
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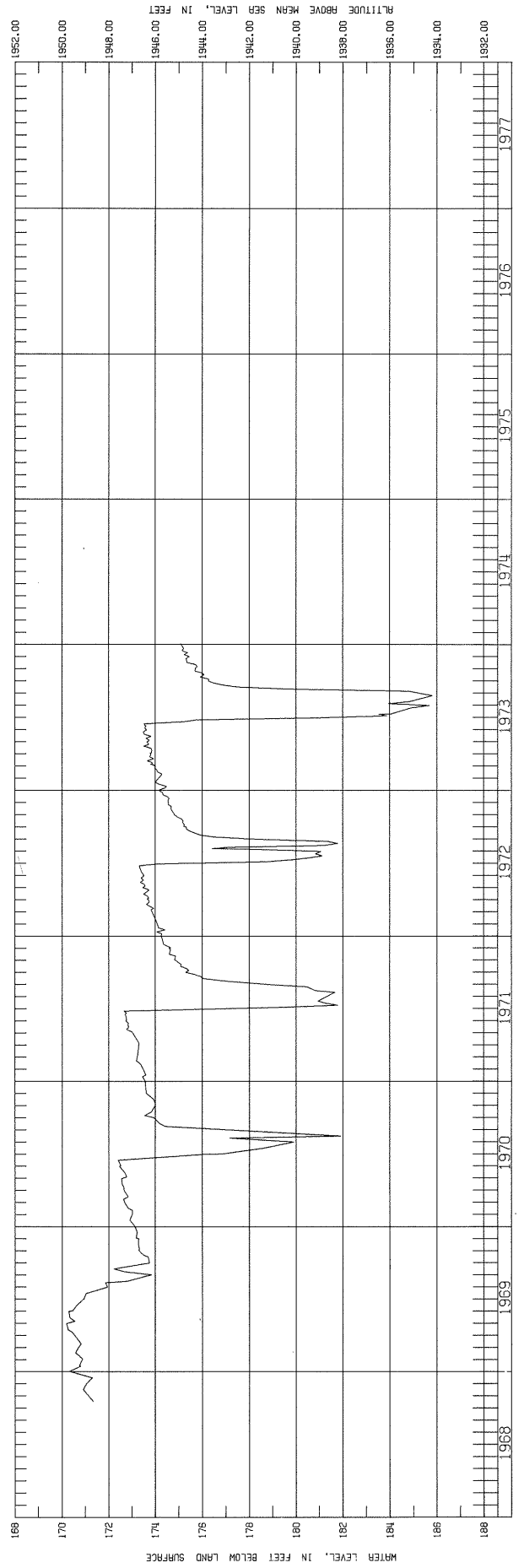
FILLMORE COUNTY



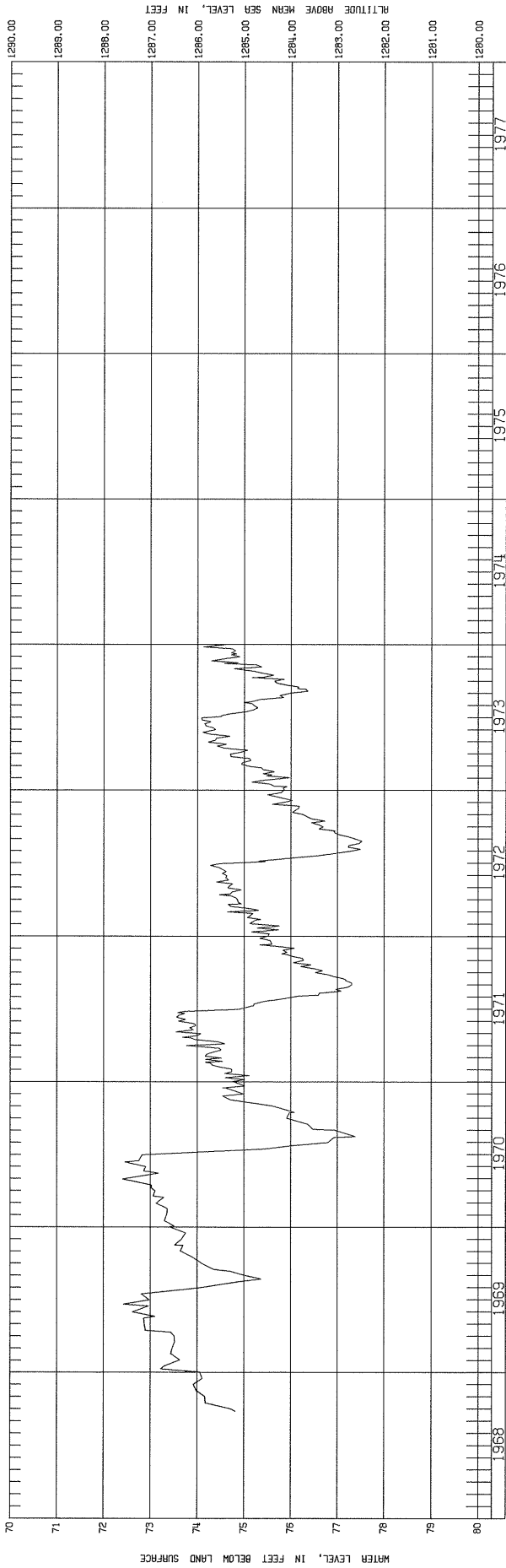
FILLMORE COUNTY  
 EXETER RECORDER WELL  
 HYDROGRAPH OF WELL 8N 24 2640 1, FILLMORE COUNTY



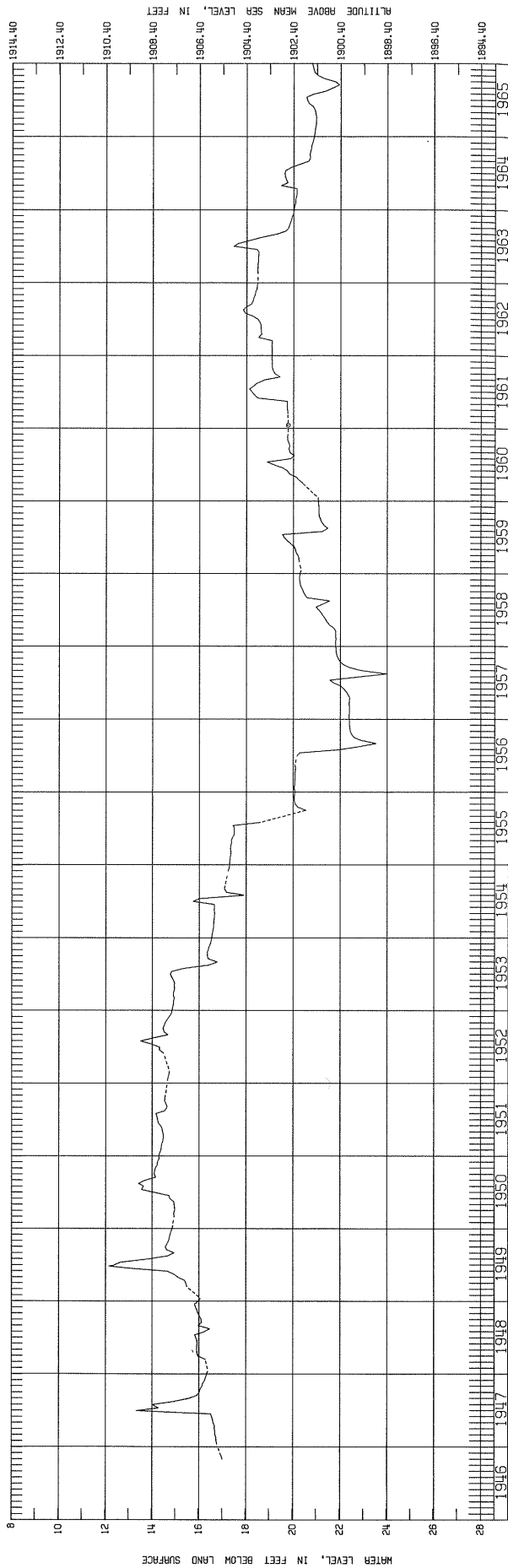
FRANKLIN COUNTY  
 UPLAND RECORDER WELL  
 HYDROGRAPH OF WELL 4N 14W 23CC 1, FRANKLIN COUNTY



ELLIS RECORDER WELL  
 HYDROGRAPH OF WELL 2N 5E 8RD 1, GARGE COUNTY

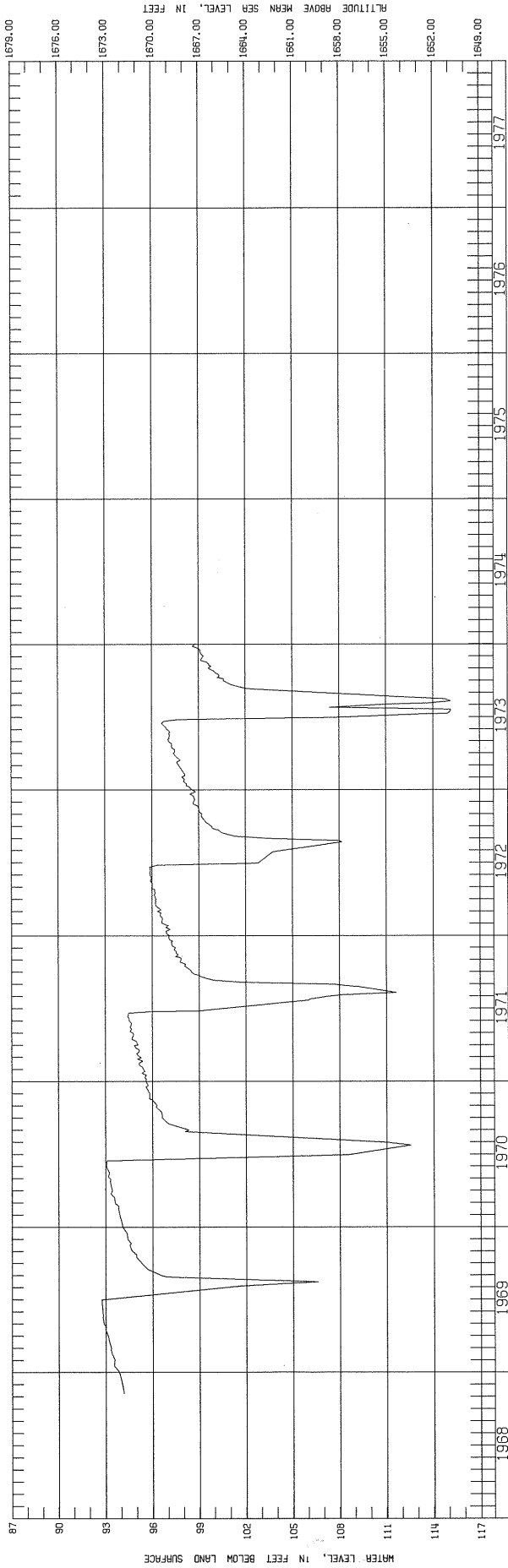


ALDR RECORDER WELL  
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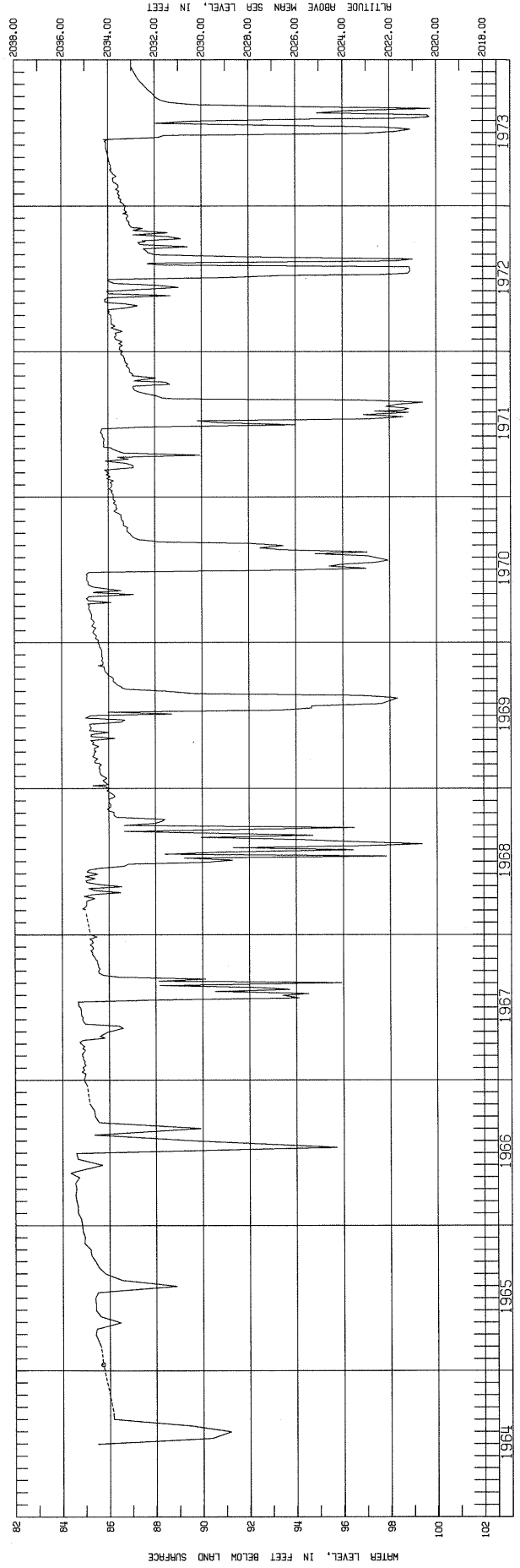




HAMILTON COUNTY  
 KRONBERG RECORDER WELL  
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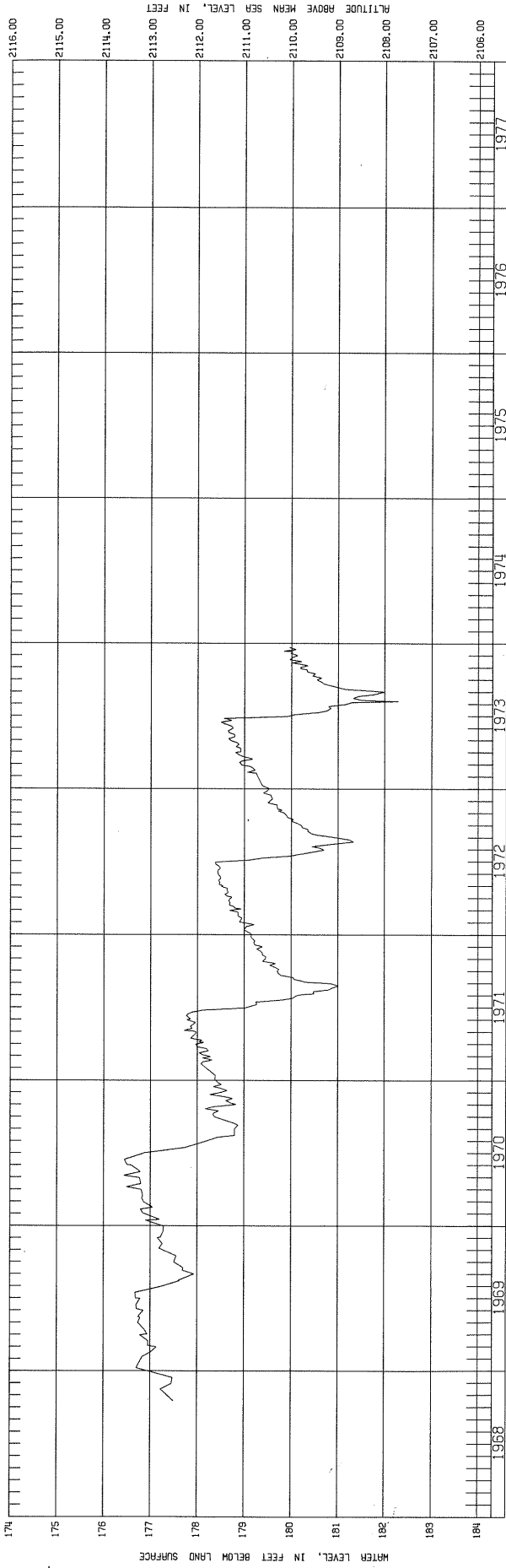


HARLAN COUNTY  
 ALMA RECORDER WELL  
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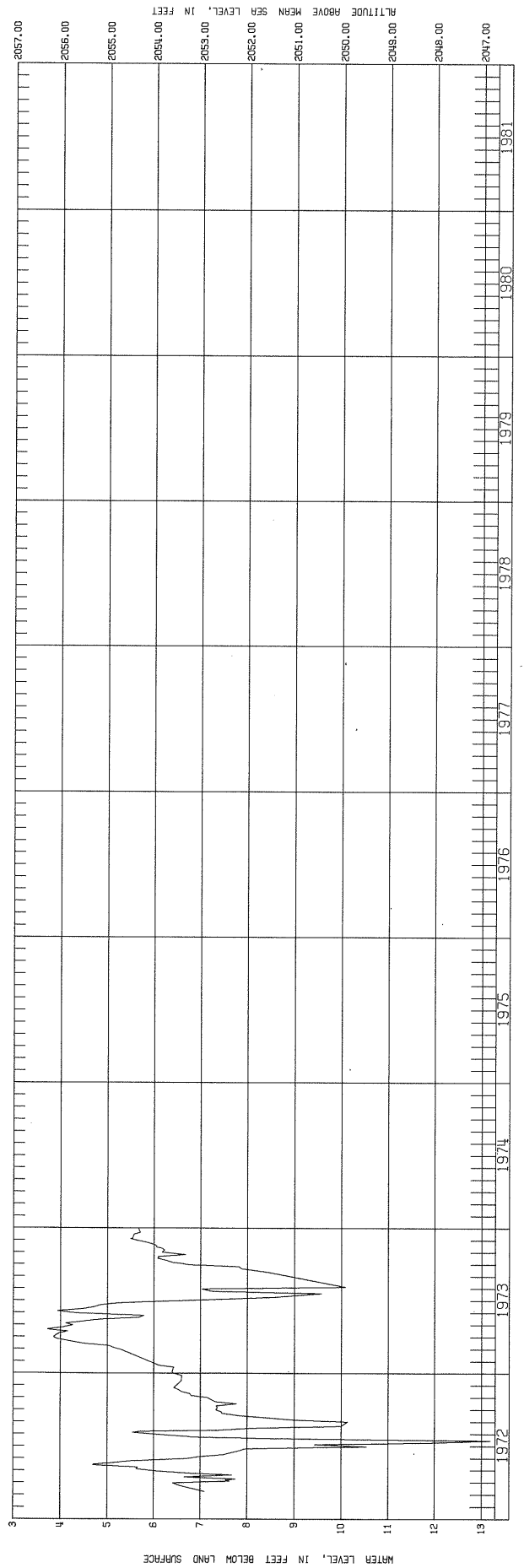




HARLAN COUNTY  
 RAGAN RECORDER WELL  
 UN 18K 15RD 1, HARLAN COUNTY

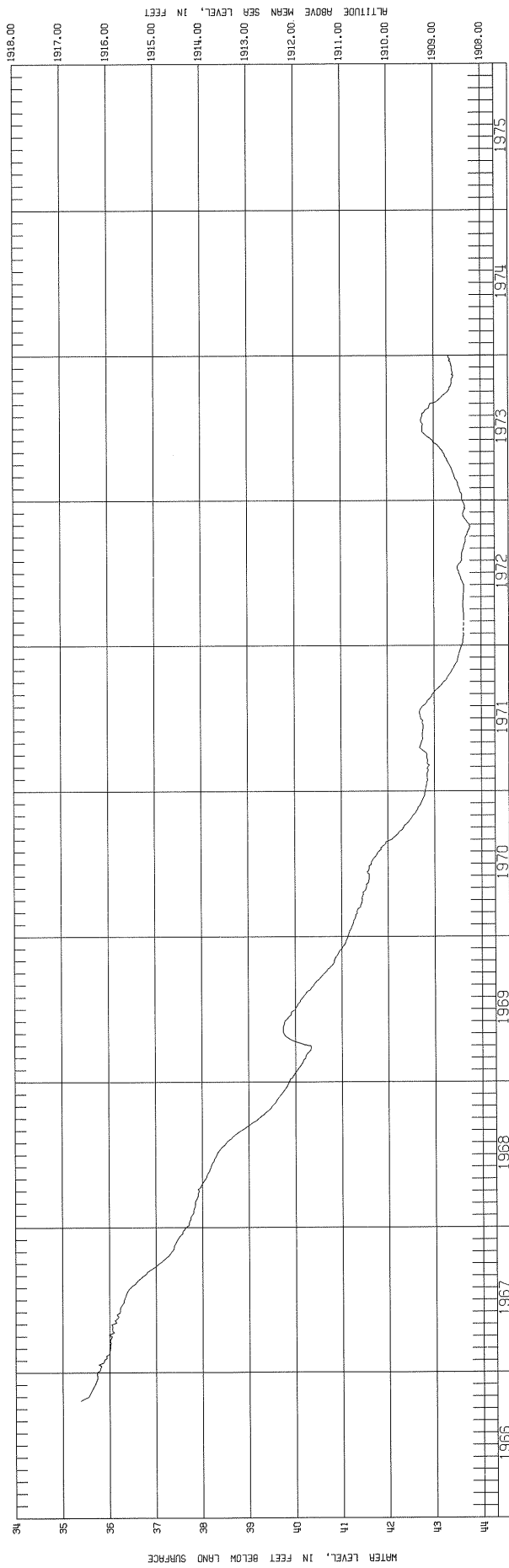


HOLT COUNTY  
 CHAMBERS RECORDER WELL  
 26N 12W 26AAA 1, HOLT COUNTY



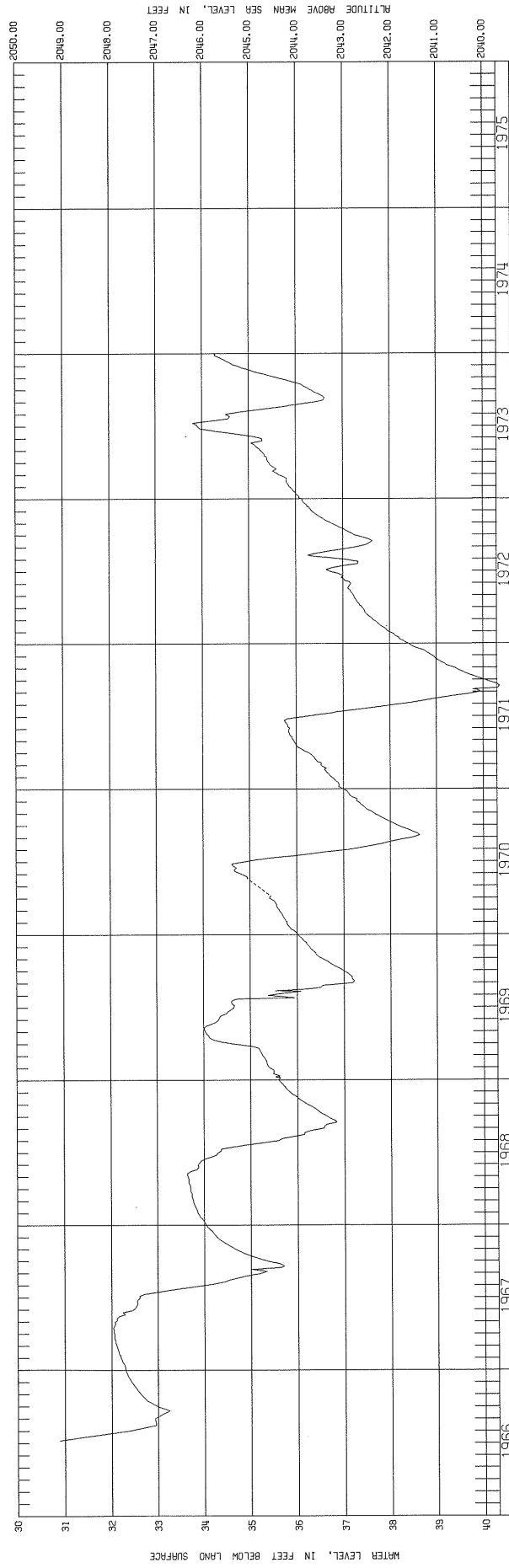
O'NEILL RECORDER WELL  
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HOLT COUNTY

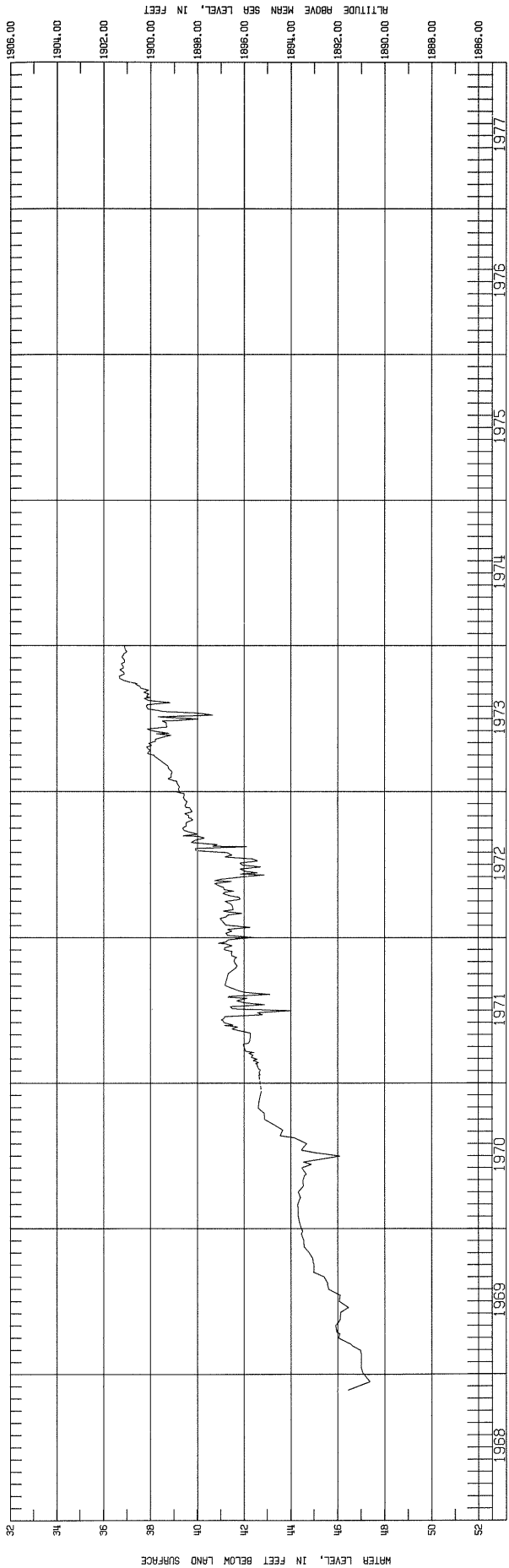


ATKINSON RECORDER WELL  
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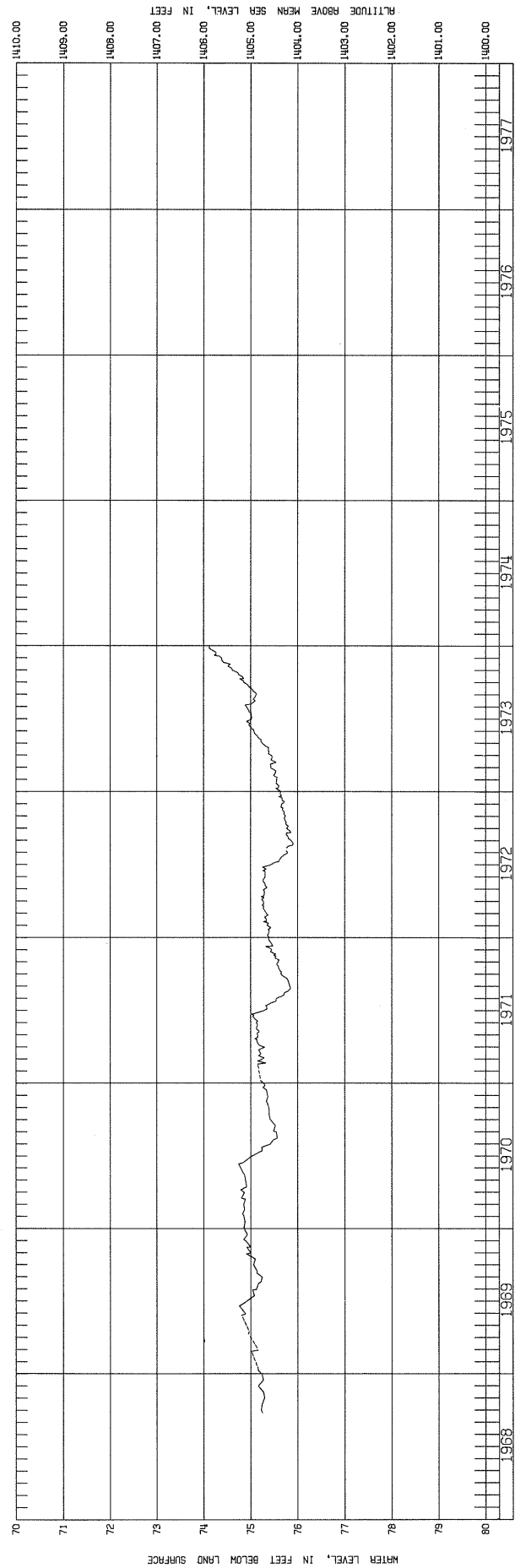
HOLT COUNTY



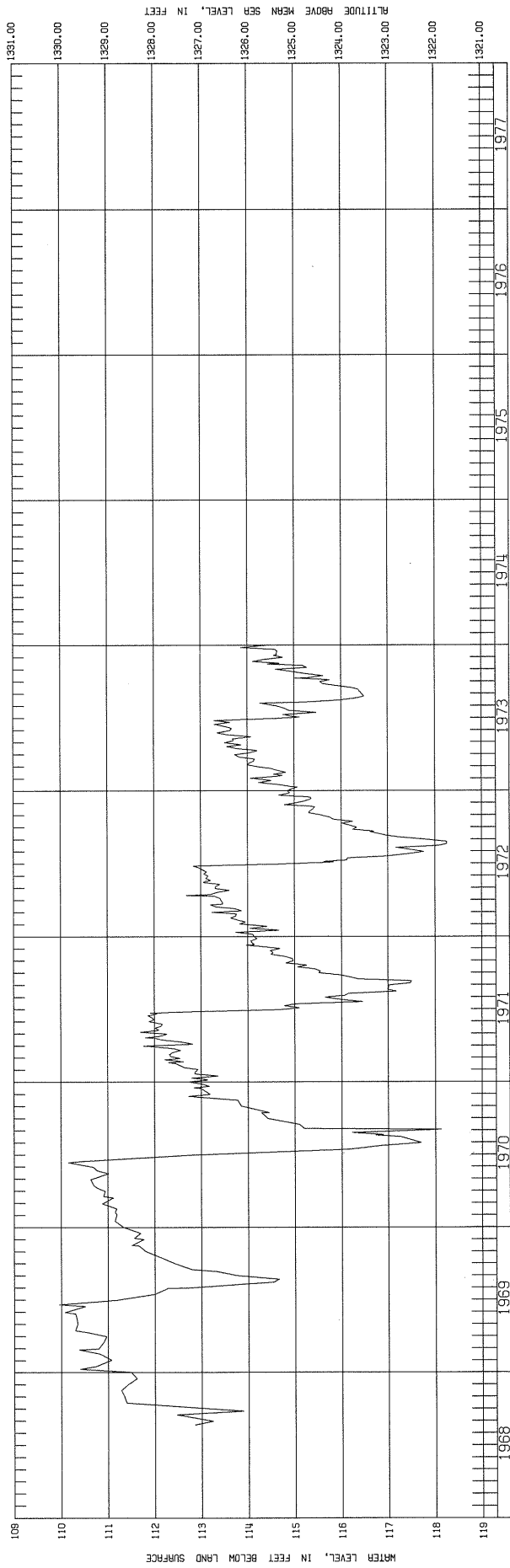
HOWARD COUNTY  
 DANNEBROG RECORDER WELL  
 HYDROGRAPH OF WELL 1N 11W 22DD 1, HOWARD COUNTY



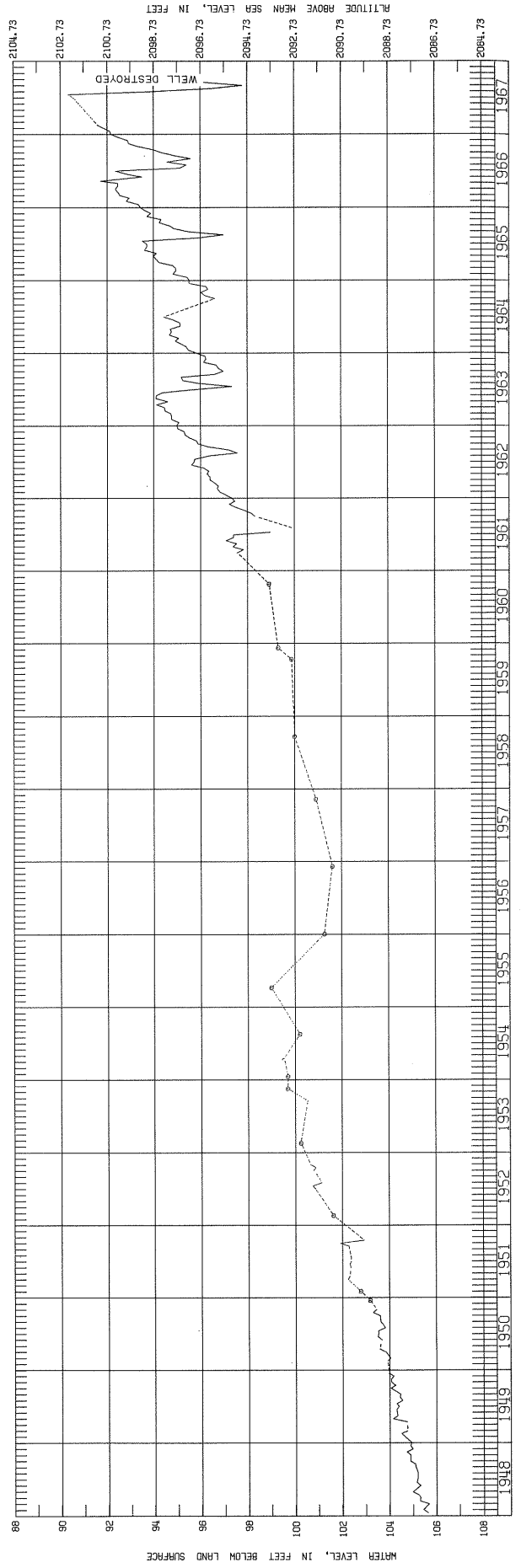
JEFFERSON COUNTY  
 DAYKIN RECORDER WELL  
 HYDROGRAPH OF WELL 4N 1E 31AA 1, JEFFERSON COUNTY



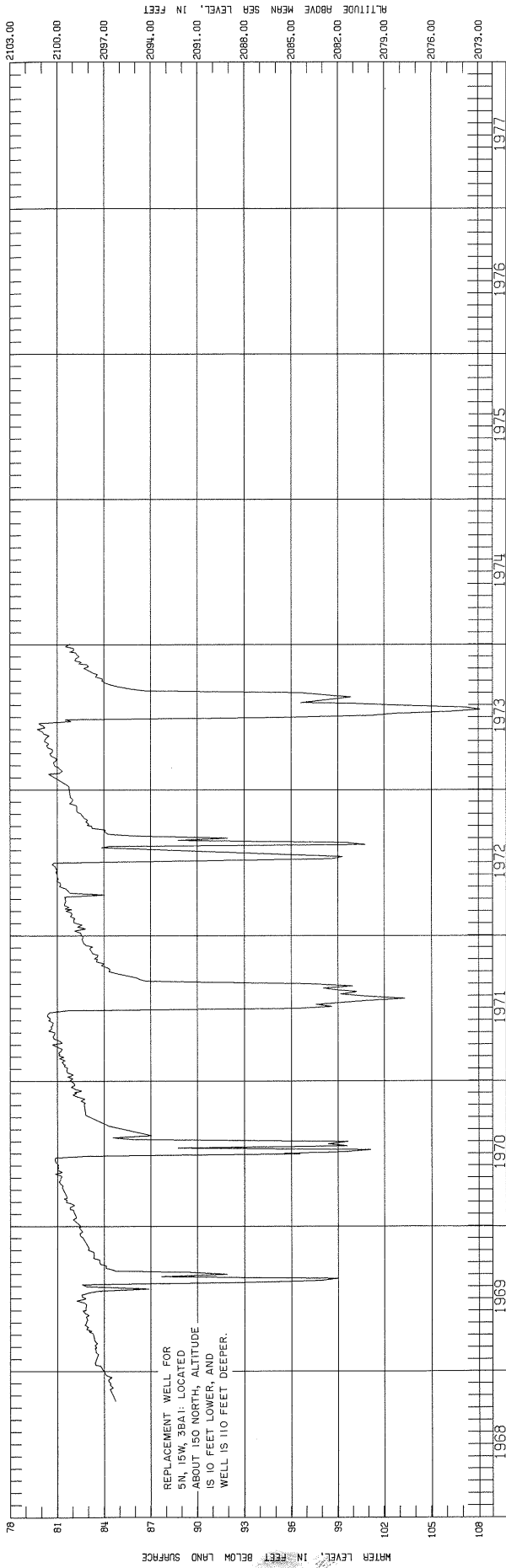
JEFFERSON COUNTY  
 PLYMOUTH RECORDER WELL  
 4N 3E 13OR 1. JEFFERSON COUNTY



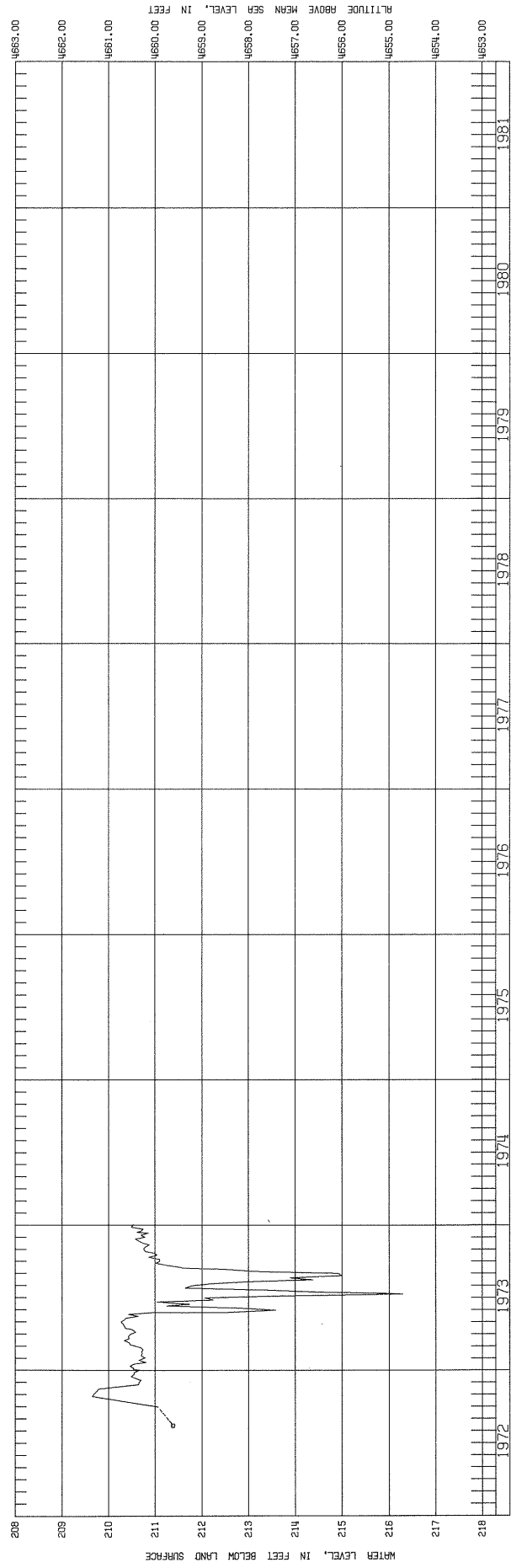
KEARNEY COUNTY  
 MINDEN RECORDER WELL  
 5N 15M 38R 1. KEARNEY COUNTY



MINDEN RECORDER WELL  
HYDROGRAPH OF WELL 6N 15W 34DC 1, KEARNEY COUNTY

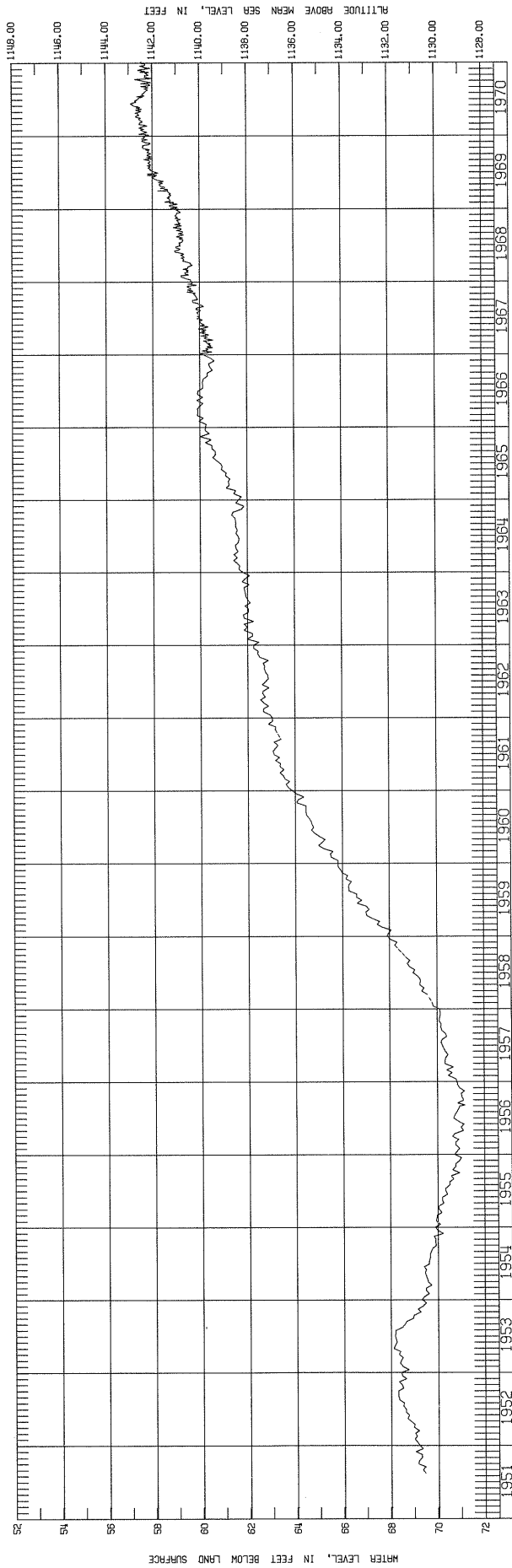


KIMBALL RECORDER WELL  
HYDROGRAPH OF WELL 15N 55K 7ABB 1, KIMBALL COUNTY



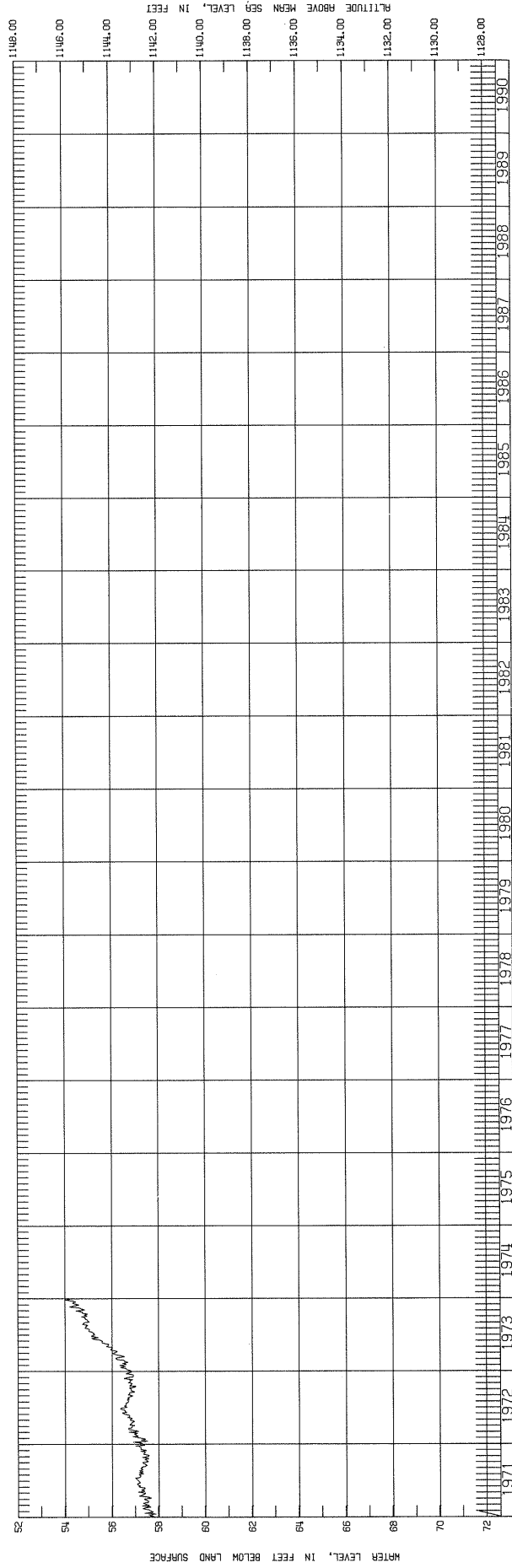
VAN DORN RECORDER WELL  
 HYDROGRAPH OF WELL 10N 6E 36C00 1, LANCASTER COUNTY

LANCASTER COUNTY

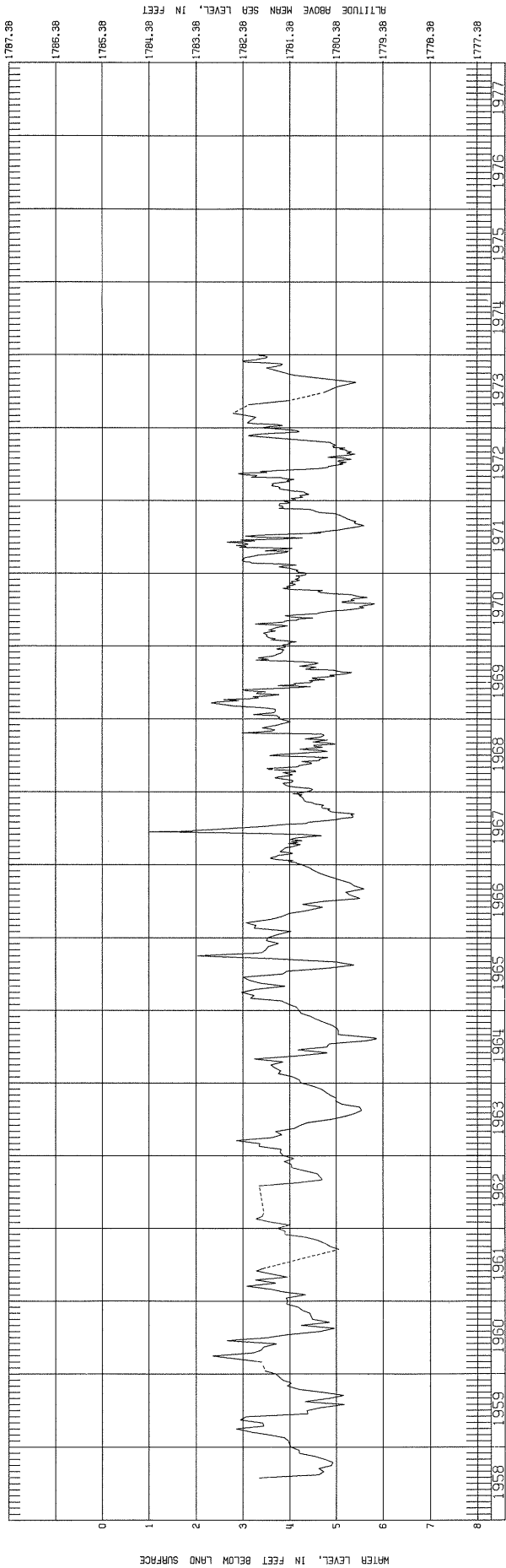


VAN DORN RECORDER WELL  
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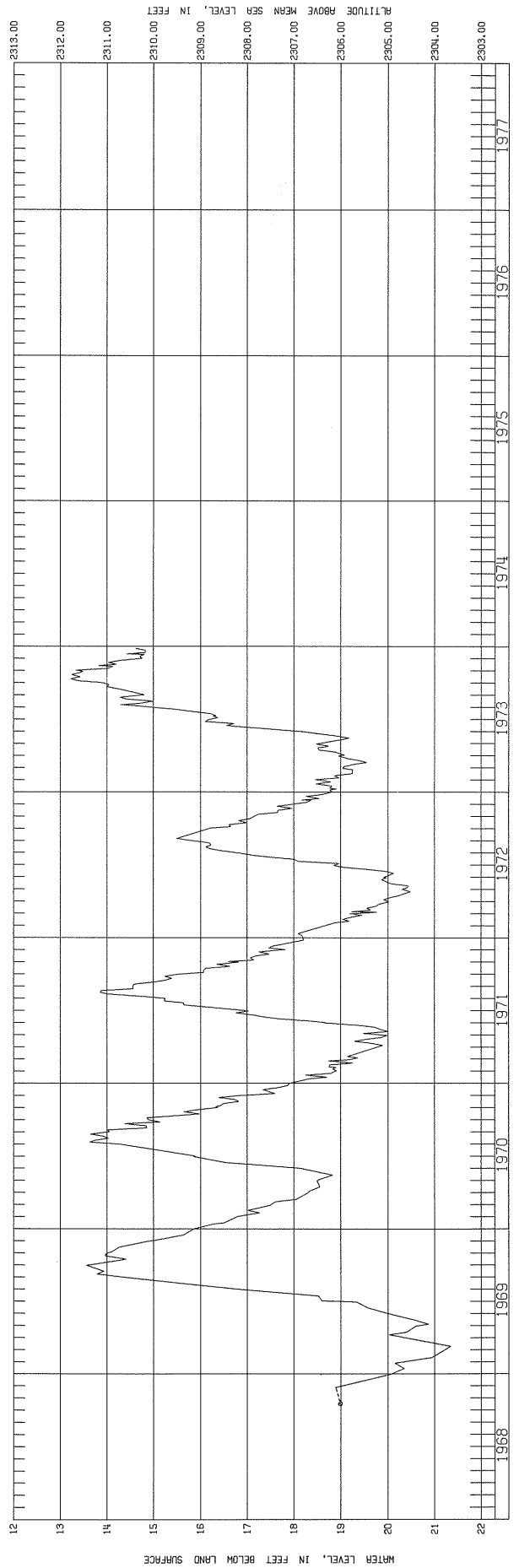
LANCASTER COUNTY



MERRICK COUNTY  
 CHAPMAN RECORDER WELL  
 HYDROGRAPH OF WELL 12N 8W 36BC 1, MERRICK COUNTY

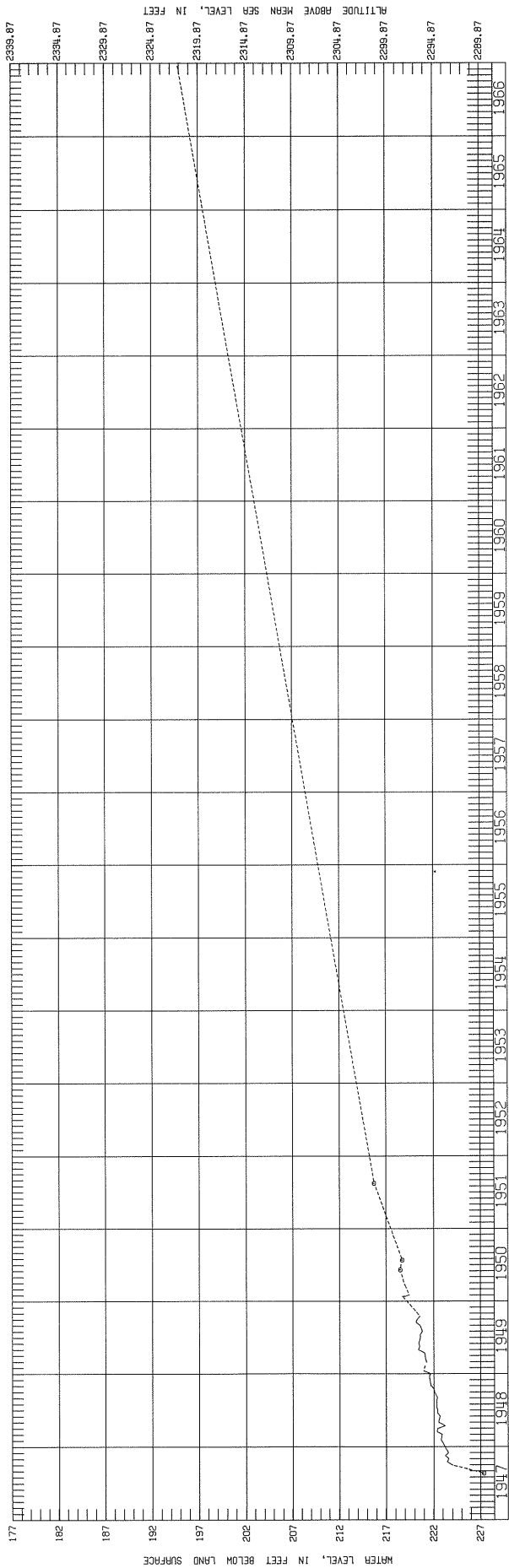


PHELPS COUNTY  
 HOLDREGE RECORDER WELL  
 HYDROGRAPH OF WELL 7N 18W 31AA 1, PHELPS COUNTY



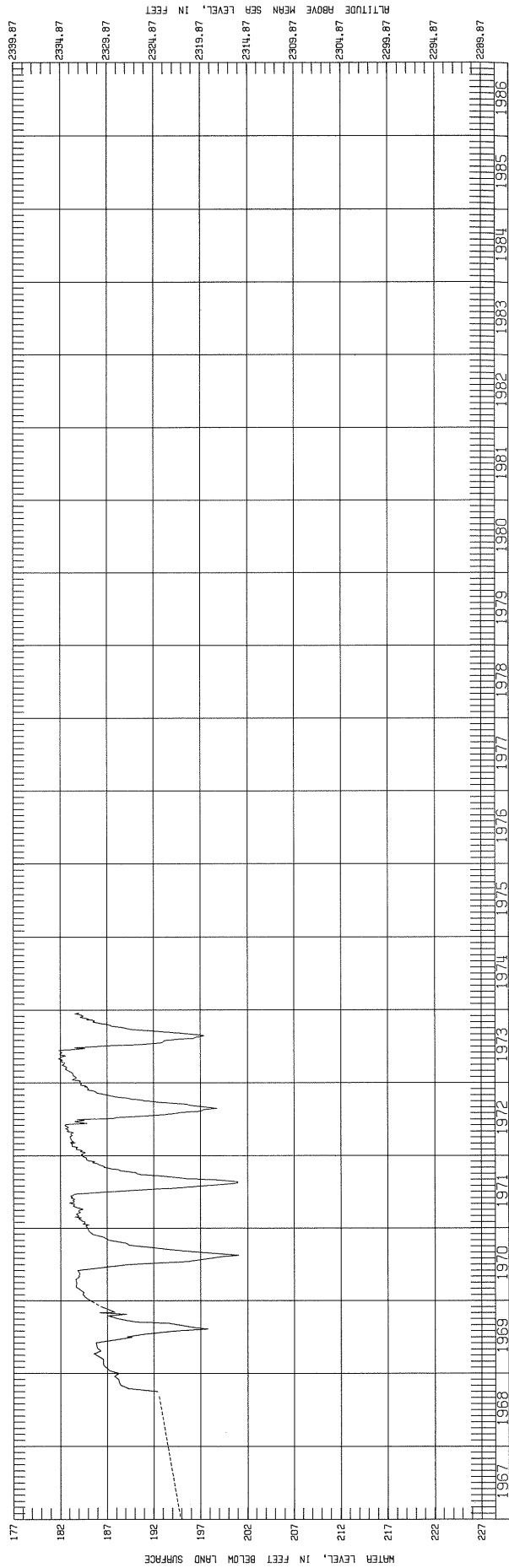
BERTRAND RECORDER WELL  
 HYDROGRAPH OF WELL 7N 20W 31CD 1, PHELPS COUNTY

PHELPS COUNTY



BERTRAND RECORDER WELL  
 HYDROGRAPH OF WELL 7N 20W 31CD 1, PHELPS COUNTY

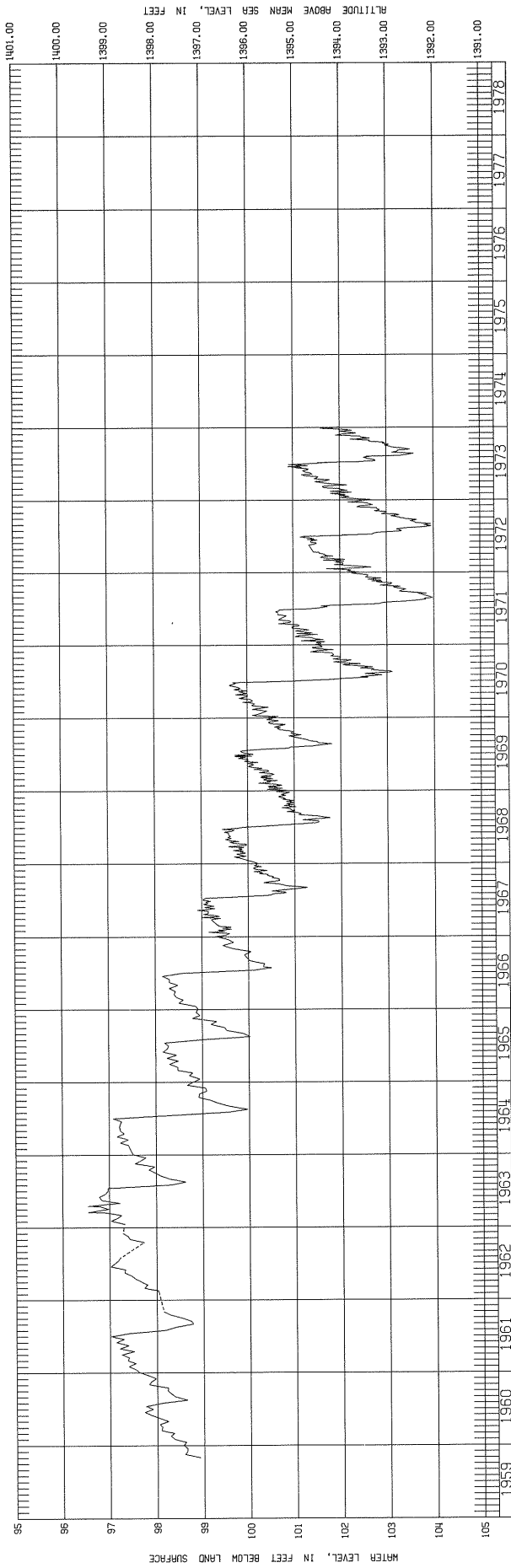
PHELPS COUNTY



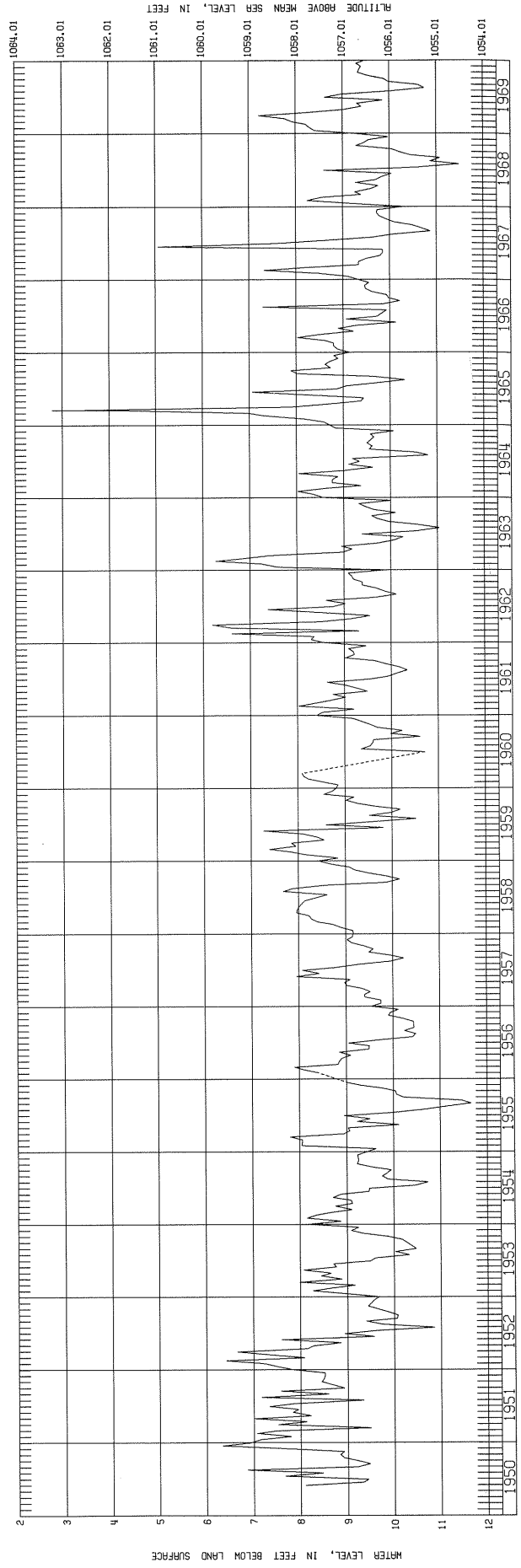




SALINE COUNTY  
 DORCHESTER RECORDER WELL  
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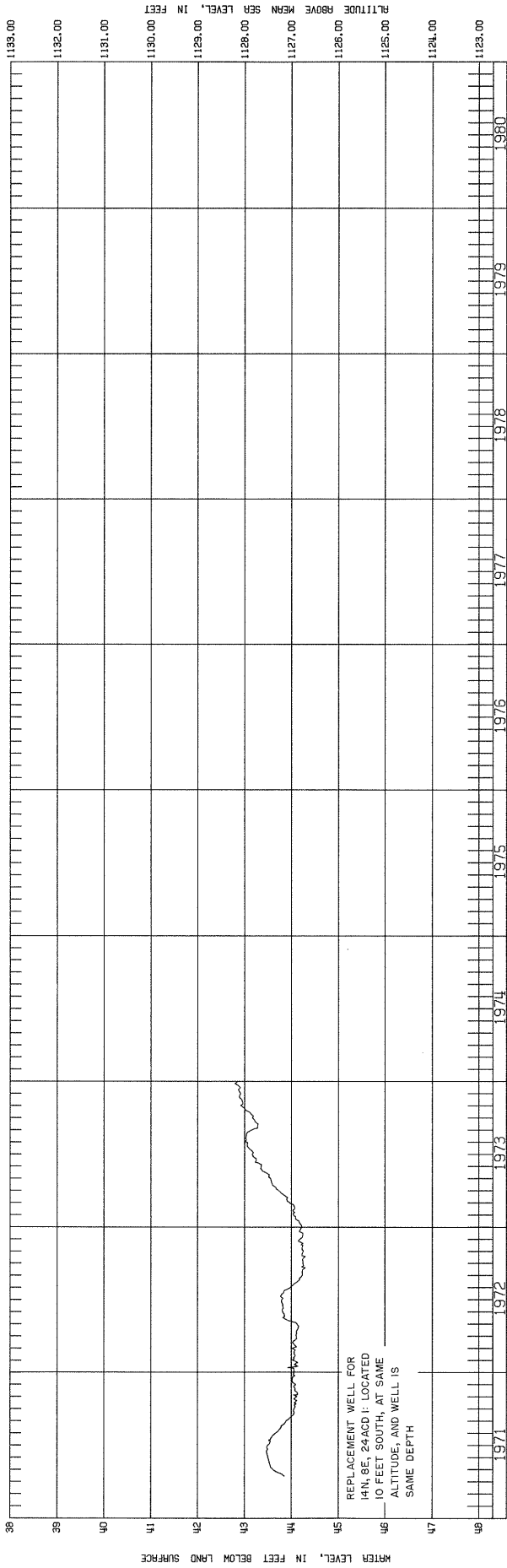


SAUNDERS COUNTY  
 ASHLAND RECORDER WELL  
 HYDROGRAPH OF WELL 13N 10E 300D 1, SAUNDERS COUNTY

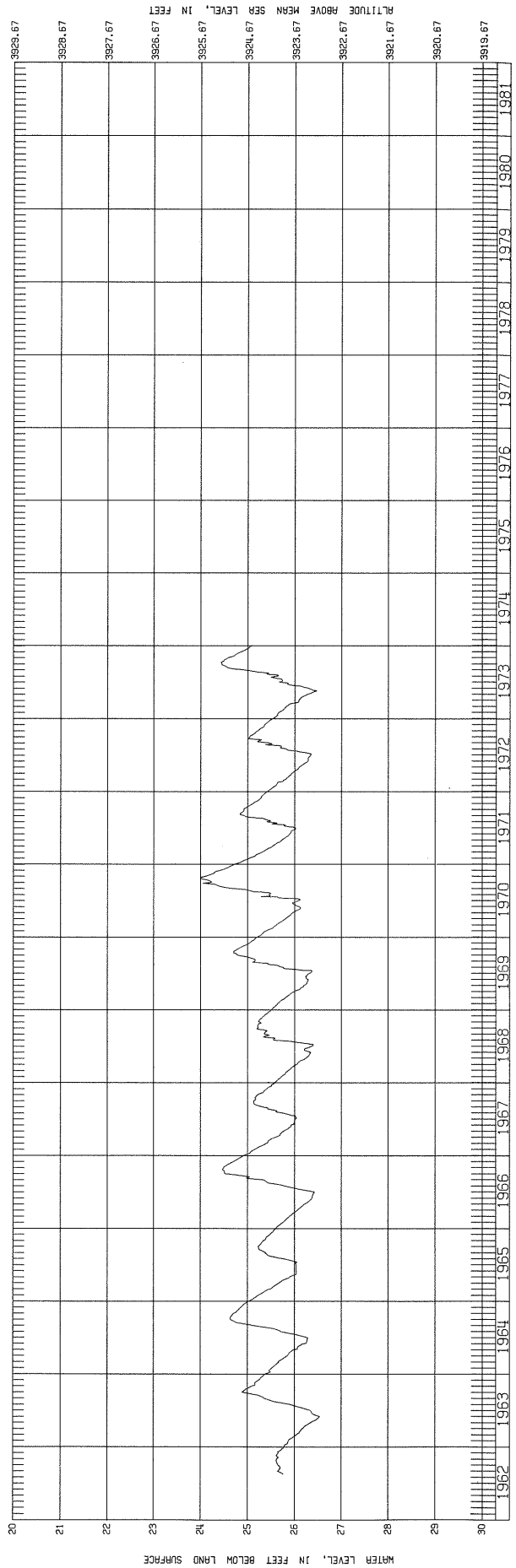




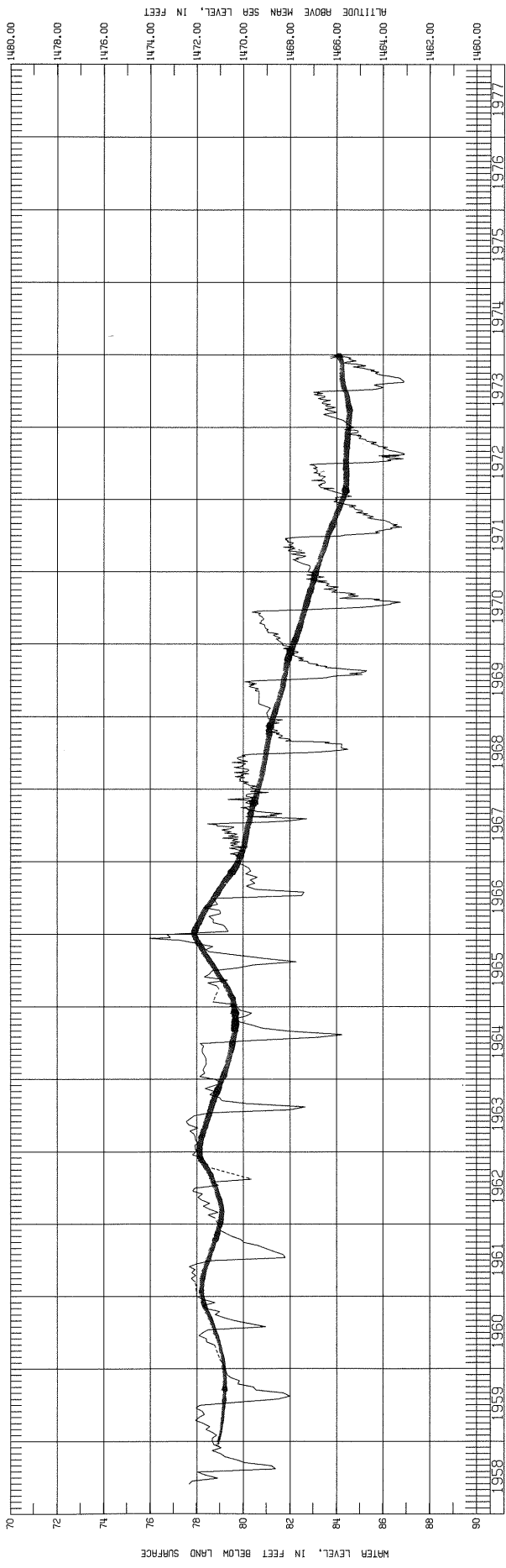
SAUNDERS COUNTY  
 MEAD RECORDER WELL  
 HYDROGRAPH OF WELL 14N 8E 24ACD 2, SAUNDERS COUNTY



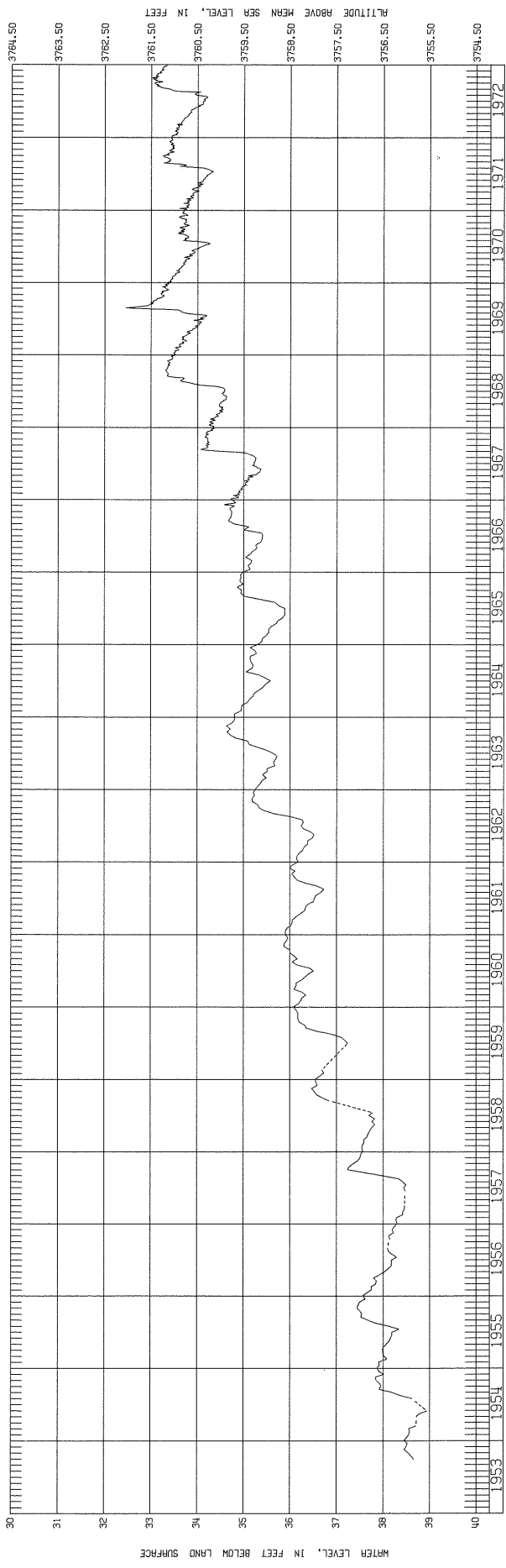
SCOTT'S BLUFF COUNTY  
 SCOTT'SBLUFF RECORDER WELL  
 HYDROGRAPH OF WELL 22N 55W 1100C 1, SCOTT'S BLUFF COUNTY



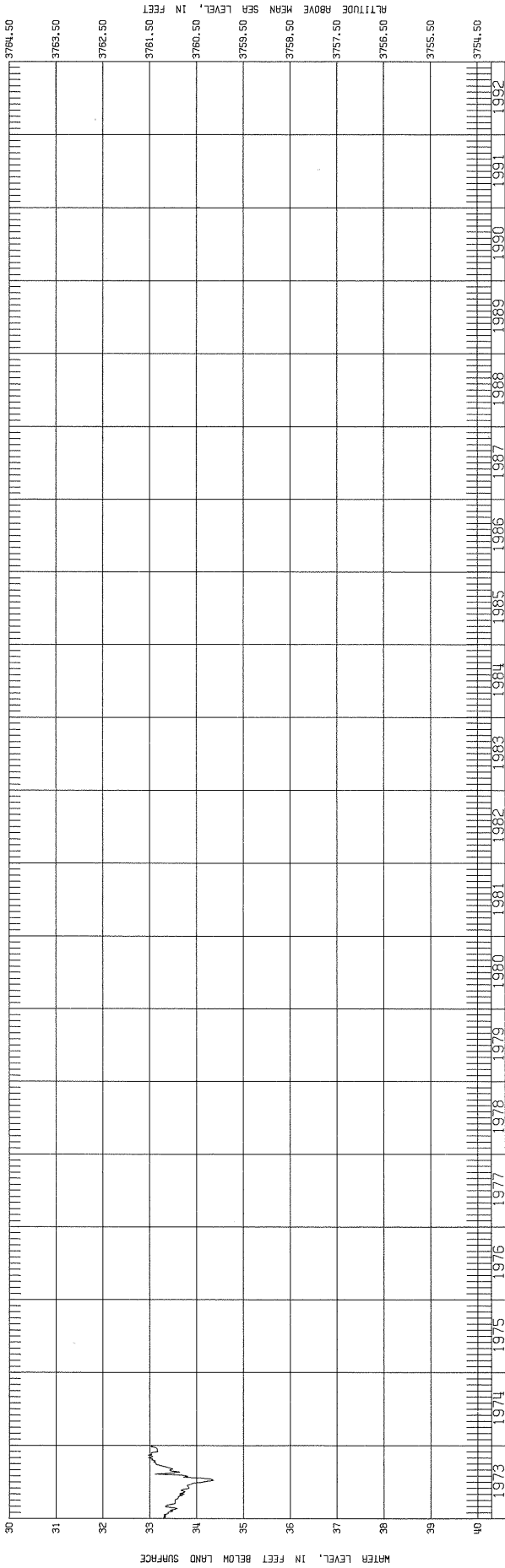
SEWARD RECORDER WELL  
HYDROGRAPH OF WELL 11N 2E 2100 1, SEWARD COUNTY



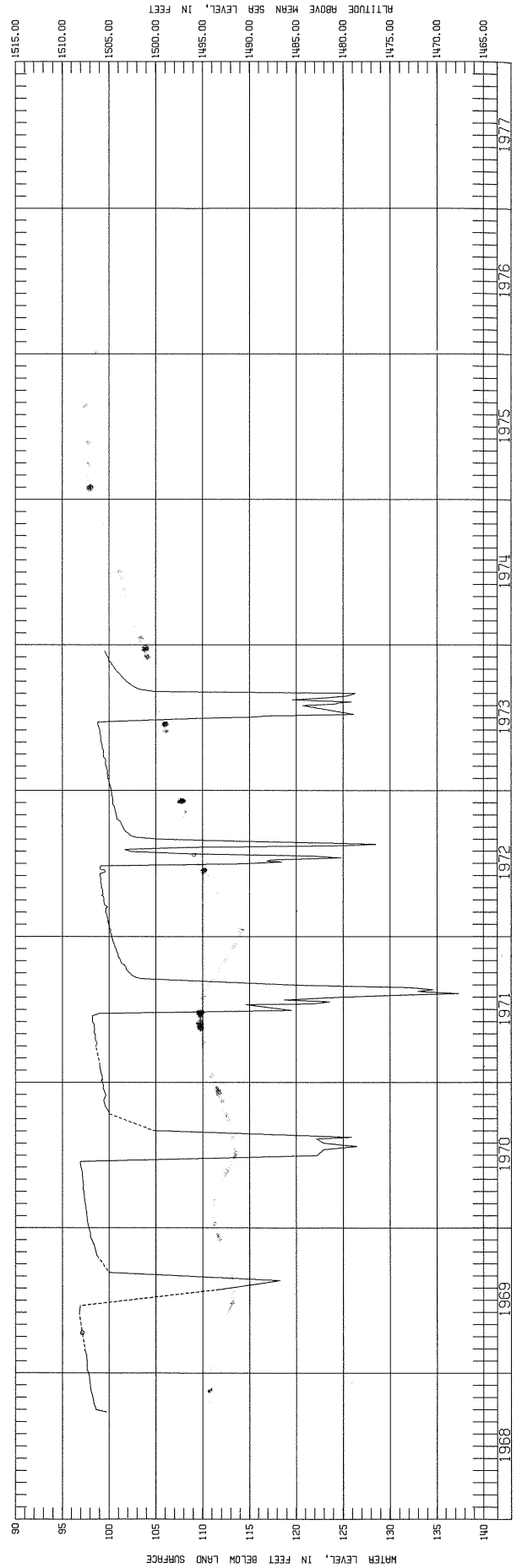
MIRAGE FLATS RECORDER WELL  
HYDROGRAPH OF WELL 29N 46W 10R4 1, SHERIDAN COUNTY



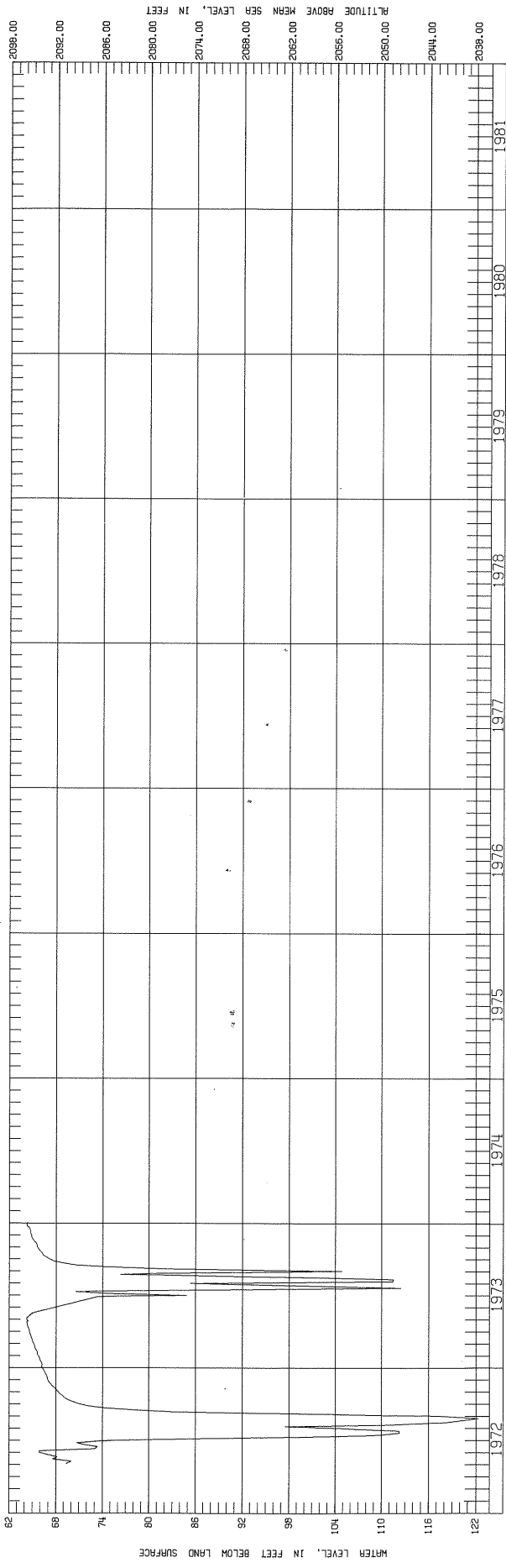
SHERIDAN COUNTY  
MIRAGE FLATS RECORDER WELL  
HYDROGRAPH OF WELL 2SN 46W 106R 1, SHERIDAN COUNTY



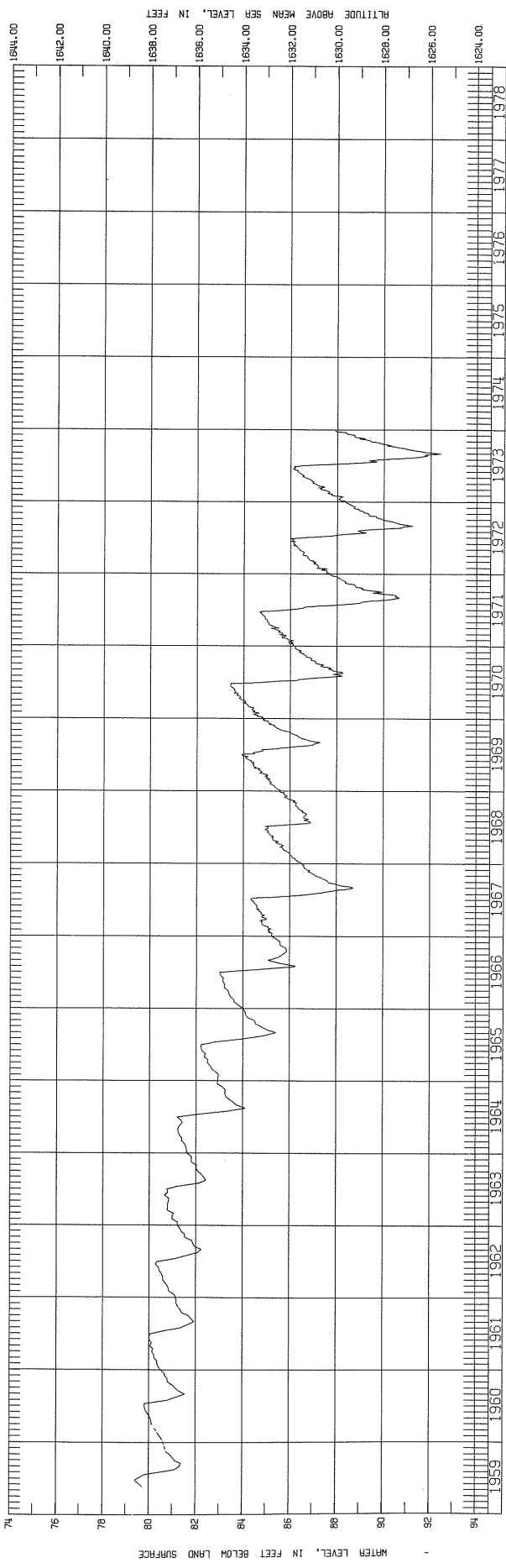
THAYER COUNTY  
CARLTON RECORDER WELL  
HYDROGRAPH OF WELL 3N 4W 26R 1, THAYER COUNTY



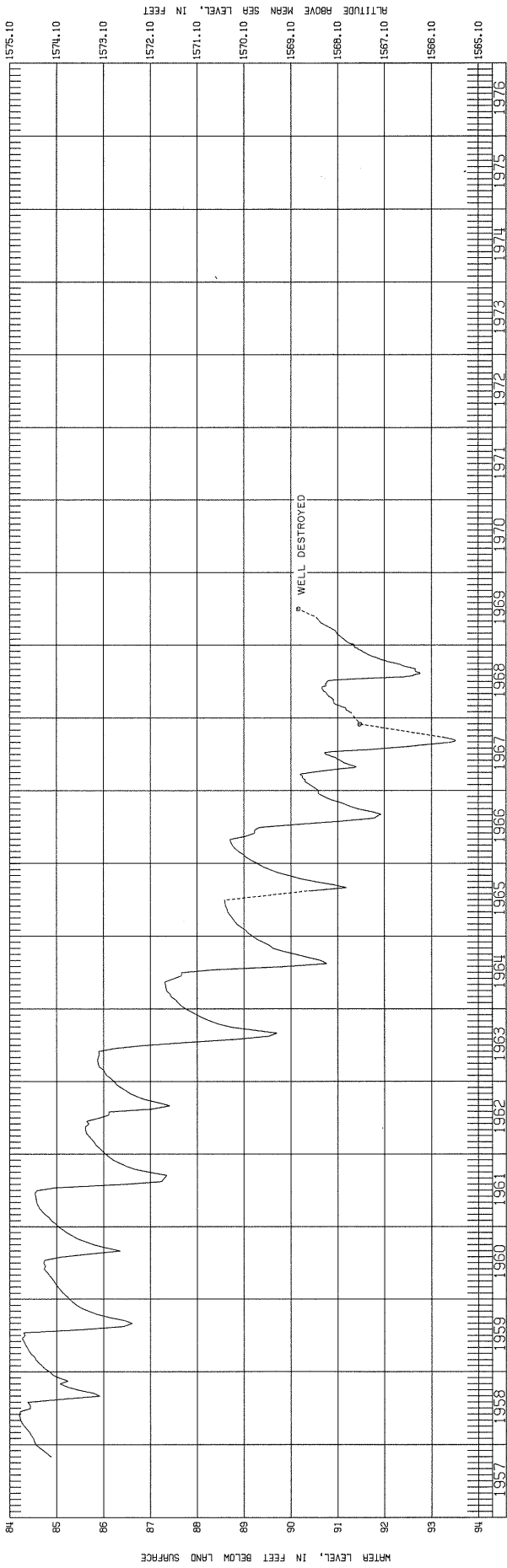
VALLEY COUNTY  
 ORD RECORDER WELL  
 HYDROGRAPH OF WELL 18N 15W 134CD 1, VALLEY COUNTY



YORK COUNTY  
 HENDERSON RECORDER WELL  
 HYDROGRAPH OF WELL 9N 4W 600 1, YORK COUNTY



YORK COUNTY  
 YORK RECORDER WELL  
 HYDROGRAPH OF WELL 11N 2W 318A 1, YORK COUNTY



YORK COUNTY  
 YORK RECORDER WELL  
 HYDROGRAPH OF WELL 11N 2W 318A 3, YORK COUNTY

