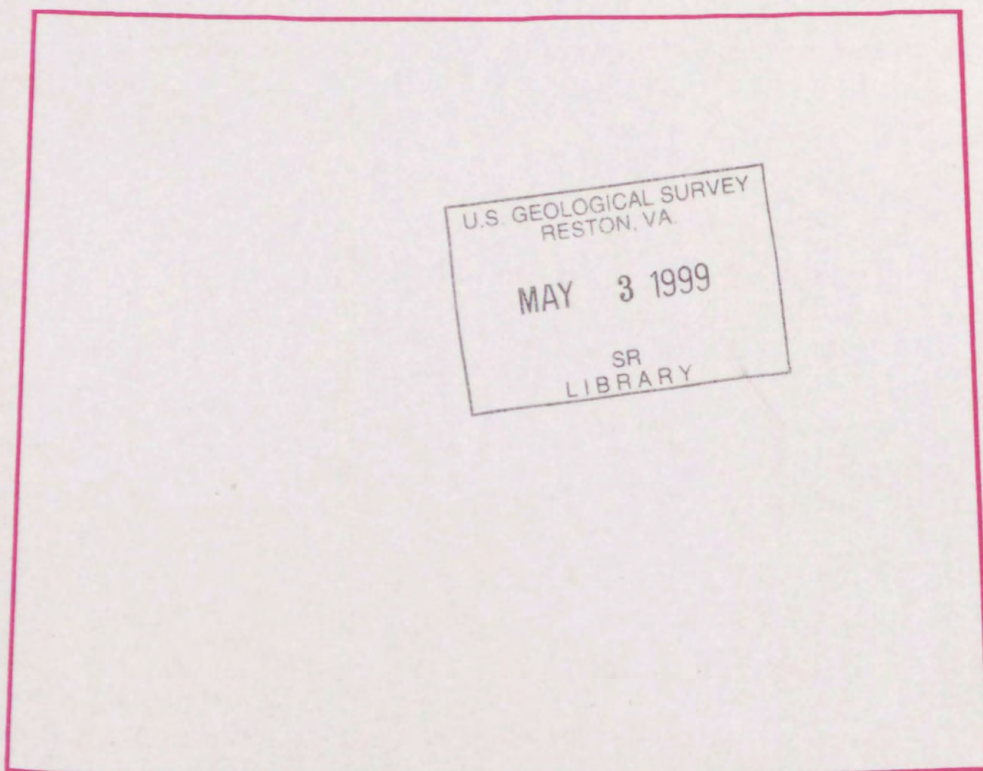


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Water Resources Data Wyoming Water Year 1997

Volume 2. Ground Water



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT WY-97-2
Prepared in cooperation with the State of Wyoming
and with other agencies



CALENDAR FOR WATER YEAR 1997

1996

OCTOBER							NOVEMBER							DECEMBER						
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1997

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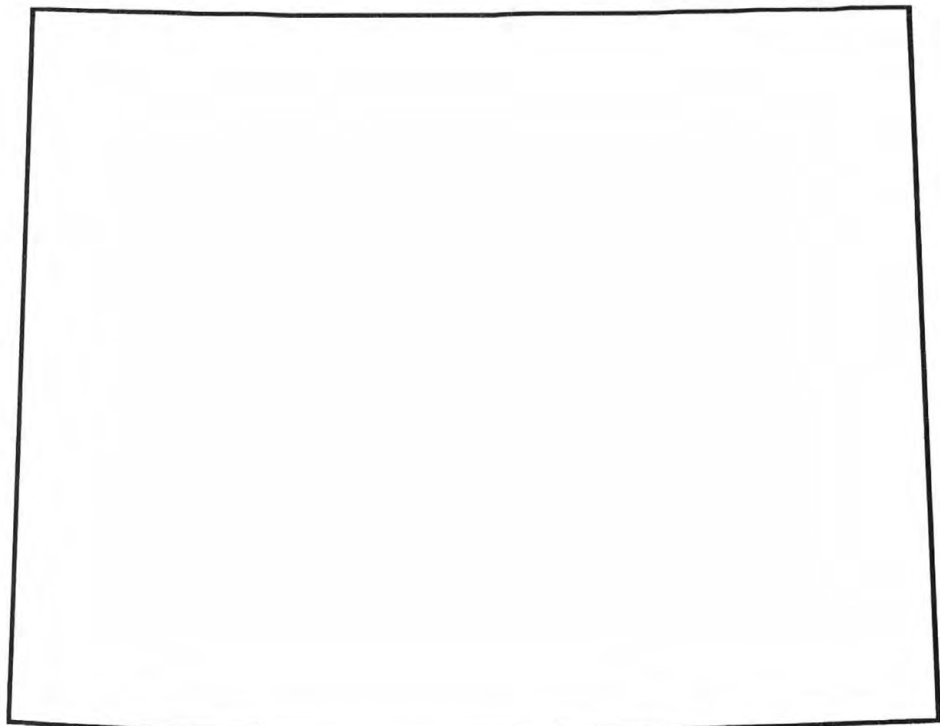
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Water Resources Data Wyoming Water Year 1997

Volume 2: Ground Water

by J.P. Mason and S.L. Green



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT WY-97-2
Prepared in cooperation with the State of Wyoming
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

GEOLOGICAL SURVEY

Thomas J. Casadevall, Acting Director

For information on the water program in Wyoming write to
District Chief, Water Resources Division
U.S. Geological Survey
2617 East Lincolnway, Suite B
Cheyenne, Wyoming 82001-5662

WATER RESOURCES DATA - WYOMING, 1997

PREFACE

This annual hydrologic data report of Wyoming is one of a series of annual reports that documents hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and the quality of water provide the hydrologic information needed by Federal, State and local agencies, and the private sector for administering, developing and managing our Nation's land and water resources. These records are contained in 2 volumes:

Volume 1. Surface-Water Data

Volume 2. Ground-Water Data

This report is the culmination of a concerted effort by personnel of the Wyoming District of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. The authors had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to U.S. Geological Survey policies and guidelines.

Most of the data in this volume were collected by personnel from the Wyoming State Engineer's Office, and computed, and processed by personnel from the Wyoming District. The following personnel are recognized for their significant contributions to this report:

T.C. Bartke	J.R. Elliott	C.E. Miller	K.M. Ogle
M.L. Clark	K.J. Hedmark	D. Trefren-Miller	

S. L. Green typed and assembled the report.

This report was prepared under the general supervision of Zelda C. Bailey, Acting District Chief, Wyoming District, in cooperation with Gordon W. Fassett, the Wyoming State Engineer.

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14. SUBJECT TERMS *Wyoming, *Hydrologic data, *Ground water, *Water quality, Chemical analyses, Water levels, Water analyses		15. NUMBER OF PAGES 154	
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GROUND-WATER LEVELS

ALBANY COUNTY

411751105312701.	Local number, 15-073-01dba01.	Local name, Huntoon #1.	17
411703105314001.	Local number, 15-073-12dbb01.	Local name, Huntoon #2.	18

BIG HORN COUNTY

441351107434701.	Local number, 49-091-12dba01.	Local name, Worland-1.	20
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CAMPBELL COUNTY

433438105225401.	Local number, 42-071-35aaa01.	Local name, Ech-8.	22
441117105192901.	Local number, 49-070-31bbb01.	Local name, Hampshire-1.	23
441748105323301.	Local number, 50-072-20cab01.	Local name, Dickinson.	24
441819105305701.	Local number, 50-072-21aba01.	Local name, Gillette H-13.	25

CARBON COUNTY

411234106424601.	Local number, 14-083-03cab01.	Local name, Helmer South.	27
422338107145001.	Local number, 28-087-16cca01.	Local name, Split Rock #2.	28

CONVERSE COUNTY

424420105364201.	Local number, 32-073-16cdb01.	Local name, Natural Bridge East.	30
431140105151901.	Local number, 37-070-10cbb01.	Local name, Bill #6.	31

CROOK COUNTY

442540104493501.	Local number, 51-066-06dcd01.	Local name, Gillette Madison M-8.	33
442739104214601.	Local number, 52-063-25dcd01.	Local name, Cole #3A.	34
443453104425602.	Local number, 53-065-18bbd02.	Local name, Park Service.	35
444854104534501.	Local number, 56-067-28aab01.	Local name, Cole #41 Madison.	36
444854104534502.	Local number, 56-067-28aab02.	Local name, Cole #41 Minnelusa.	37

FREMONT COUNTY

430205108243201.	Local number, 1N-4E-28acc01.	Local name, Brentwqod.	39
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GOSHEN COUNTY

413810104102301.	Local number, 19-061-10aab01.	Local name, LaGrange #1.	41
414049104074501.	Local number, 20-060-30bbb01.	Local name, LaGrange #2.	42
414348104101301.	Local number, 20-061-03dad01.	Local name, LaGrange #3.	43
414128104094502.	Local number, 20-061-23bdb02.	Local name, Rain Station.	44
414051104100701.	Local number, 20-061-23ccc01.	Local name, Curt Meier.	45
422519104095101.	Local number, 28-061-02ccd01.	Local name, Prairie Center #6.	46
422512104135501.	Local number, 28-061-06aba01.	Local name, Goshen County #2.	47
422928104121401.	Local number, 29-061-17aad01.	Local name, Prairie Center #4.	48
422849104090801.	Local number, 29-061-23abb01.	Local name, Goshen County #1.	49
422730104094801.	Local number, 29-061-26cbb01.	Local name, Prairie Center #3.	50
423549104120901.	Local number, 30-061-09bbb01.	Local name, Prairie Center #5.	51

HOT SPRINGS COUNTY

434136108183301.	Local number, 43-095-18cab01.	Local name, Thermopolis GTW-1.	53
433933108121901.	Local number, 43-095-25cdc01.	Local name, Thermopolis GTW-3.	54

LARAMIE COUNTY

410059104072401.	Local number, 12-060-07ddd01.	Local name, Laramie County #1.	56
410100104160301.	Local number, 12-062-13baa01.	Local name, USGS southeast of Carpenter.	57
410111104223102.	Local number, 12-063-15aaa02.	Local name, USGS southwest of Carpenter.	58
410703104071201.	Local number, 13-060-05ccb01.	Local name, Elmer Glantz.	59
410324104481701.	Local number, 13-066-32bbd01.	Local name, Laramie County #14.	60
410530104574001.	Local number, 13-068-13ccc01.	Local name, Borie.	61
411238104070801.	Local number, 14-060-05bcc01.	Local name, C.C. Gross.	62
411022104141201.	Local number, 14-061-18ddd01.	Local name, Laramie County #2.	63
411114104242501.	Local number, 14-063-15aaa01.	Local name, Laramie County #3.	64
411005104355001.	Local number, 14-064-19bcc01.	Local name, Laramie County #9.	65
411147104490501.	Local number, 14-066-07add01.	Local name, National Land #1.	66
411210104452001.	Local number, 14-066-10aba01.	Local name, Laramie County #8.	67
410940104435701.	Local number, 14-066-23ddd01.	Local name, Laramie County #15.	68
411213104501401.	Local number, 14-067-12abb01.	Local name, Laramie County #10.	69
411034104554001.	Local number, 14-067-18ddc01.	Local name, Bell #14.	70
410930104524701.	Local number, 14-067-27bac01.	Local name, Laramie County #13.	71
410838104530401.	Local number, 14-067-34bbc01.	Local name, Laramie County #11.	72
410827104501601.	Local number, 14-067-36acb01.	Local name, Pioneer Park.	73
410757104582302.	Local number, 14-068-35ddc02.	Local name, King #3.	74
411531104194701.	Local number, 15-062-20aaa01.	Local name, Laramie County #4.	75
411725104454601.	Local number, 15-066-10bab01.	Local name, Laramie County #7.	76
411425104592701.	Local number, 15-068-27ccc01.	Local name, MX-West.	77
412227104081402.	Local number, 16-060-07bbb02.	Local name, USGS southwest of Albin.	78
411136104125301.	Local number, 16-061-17aaa01.	Local name, Laramie County #5.	79
412343104053101.	Local number, 17-060-33cbb01.	Local name, USGS south of Albin.	80
412605104203001.	Local number, 17-062-17ccc01.	Local name, Laramie County #6A.	81
412400104533901.	Local number, 17-067-33baa01.	Local name, MX-North.	82

GROUND-WATER LEVELS--Continued

NIOBARA COUNTY

424709104194101.	Local number, 32-062-05baa01.	Local name, Niobrara County #1.	84
424244104202001.	Local number, 32-062-32bbb01.	Local name, Node Well.	85
424544104260601.	Local number, 32-063-08daa01.	Local name, Niobrara County #2.	86
430422104183201.	Local number, 36-062-28ab01.	Local name, ETSI T-2.	87
430422104183202.	Local number, 36-062-28ab02.	Local name, ETSI O-2.	88
430421104200701.	Local number, 36-062-28bbd01.	Local name, ETSI T-1.	89
431321104090001.	Local number, 38-061-35dca01.	Local name, ETSI M-1.	90

PLATTE COUNTY

420237104532101.	Local number, 24-067-21aab01.	Local name, Ed Preuit.	92
420246104590302.	Local number, 24-068-22aab02.	Local name, Platte County #1A.	93
420718104553901.	Local number, 25-067-19dda01.	Local name, Ed Wilhelm.	94
420524104530201.	Local number, 25-067-34ccd01.	Local name, Platte County #2.	95
420859104565001.	Local number, 25-068-12dda01.	Local name, Platte County #4.	96
420840105000401.	Local number, 25-068-15bbd01.	Local name, Platte County #6.	97
420748104565001.	Local number, 25-068-24aad01.	Local name, Platte County #3.	98
420613105024401.	Local number, 25-068-31aaa01.	Local name, Platte County #7.	99
421443104574601.	Local number, 26-068-12cbd01.	Local name, E. Rutherford.	100
421128104575801.	Local number, 26-068-36bbb01.	Local name, Platte County #5.	101
421722105042401.	Local number, 27-069-25abc01.	Local name, Cottonwood Creek #1.	102

SWEETWATER COUNTY

413850109150601.	Local number, 19-105-10bbb01.	Local name, Rock Springs Golf Course.	104
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TETON COUNTY

433059110511802.	Local number, 41-117-14bdc02.	Local name, Teton Pines.	106
433517110493001.	Local number, 42-117-24dab01.	Local name, Teton Village.	107

WASHAKIE COUNTY

440621107273801.	Local number, 48-089-25ada01.	Local name, Mills.	109
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WESTON COUNTY

434539104233401.	Local number, 44-063-26cac01.	Local name, Townsend Well.	111
435610104433001.	Local number, 46-066-25dbb01.	Local name, Terra Resources.	112
440530104381001.	Local number, 48-065-35ccb01.	Local name, Town of Upton #4.	113

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State, county, municipal, and other Federal agencies, obtains a large amount of data pertaining to the water resources of Wyoming each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the U.S. Geological Survey, the data are published annually in this report series entitled, "Water Resources Data - Wyoming" as part of the National Water Data System. Water resources data for Wyoming in this volume consists of records of ground-water levels and water quality of ground water for water year 1997, which began October 1, 1996, and ended September 30, 1997. This report also contains historic water levels from 82 observation wells in the form of hydrographs. The location of counties in Wyoming with the number of observation wells listed in this report is shown in figure 1. Additional ground-water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements.

Since 1940, the U.S. Geological Survey, in cooperation with State, county, municipal, and other Federal agencies, periodically has measured ground-water levels in a large number of wells in Wyoming. A more extensive program was started in 1972 to expand the ground-water-level data base throughout the State. Part of the expansion included the installation of continuous water-level recorders in selected wells in an observation-well network. The observation-well network consists of 80 wells, and the program currently is conducted by the U.S. Geological Survey and the Wyoming State Engineer's Office.

Ground-water levels were systematically measured in 82 observation wells in 16 counties in Wyoming, as of September 1997. Eighty of these observation wells are part of the cooperative observation-well program conducted by the U.S. Geological Survey and the Wyoming State Engineer's Office. The other two observation-wells are part of a cooperative project conducted by the U.S. Geological Survey and the Teton County Natural Resource District. Water-level data were collected at 73 of the 82 observation wells by Wyoming State Engineer personnel; data at the remaining nine wells were collected by U.S. Geological Survey personnel. The wells are located mainly in areas where ground water is used in large quantities for irrigation or municipal purposes. Water levels were measured in at least one observation well in 16 of the 23 counties in Wyoming. During 1997, a continuous record of water levels was collected from 64 wells equipped with float-driven digital water-level recorders or electronic data recorders, and a continuous record of hydraulic heads above land surface was obtained from 2 flowing wells equipped with pressure-sensing transducers and electronic data recorders. The remaining 16 wells periodically were measured by hand using a steel tape, electric tape, or an air line.

Prior to 1997 only miscellaneous ground-water data were published in this report. In the past the majority of ground-water-level data collected in Wyoming was published in other report series of the U.S. Geological Survey. Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities of the United States or may be purchased from U.S. Geological Survey, Earth Science Information Center, Federal Center, Building 810, Box 25425, Denver, Colorado 80225.

Beginning with the 1971 water year, streamflow, water quality, and ground-water are published in official Survey reports on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report WY-97-2." These water-data reports are for sale, in paper copy or on microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Wyoming water-level data and hydrographs also can be found in a series of 14 open-file reports published by the U.S. Geological Survey between 1973 and 1995.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone at (307) 778-2931.

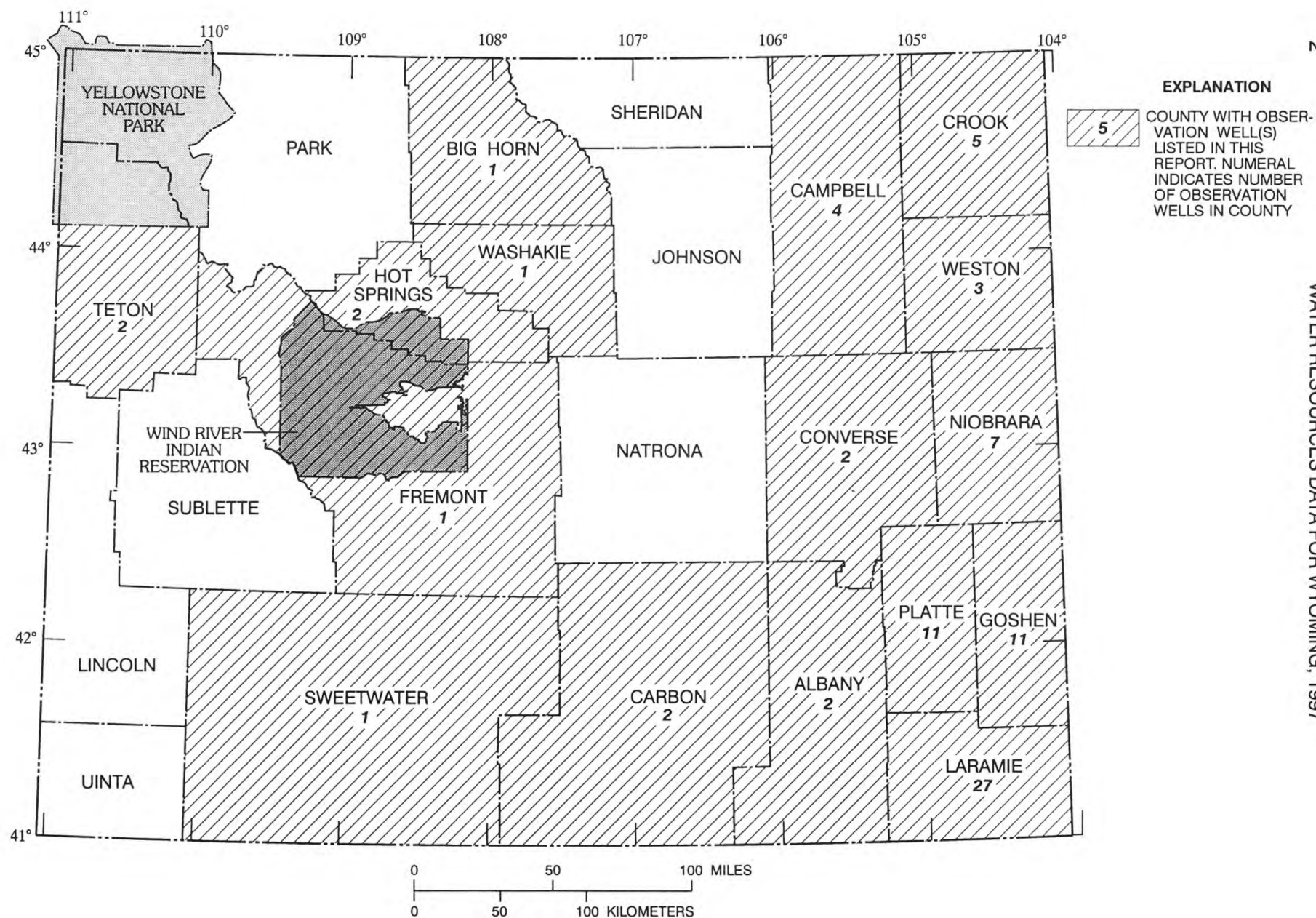


Figure 1. Location of counties in Wyoming with observation wells, as of September 1997.

COOPERATION

The U.S. Geological Survey and organizations of the State of Wyoming have had cooperative agreements for the systematic collection of streamflow records since 1895, for ground-water levels since 1940, and for water-quality records since 1946. Organizations that assisted in collecting data through cooperative agreement with the U.S. Geological Survey are:

Wyoming State Engineer's Office, Gordon W. Fassett, State Engineer
Wyoming Department of Agriculture, Ronald Micheli, Commissioner
Wyoming Department of Environmental Quality, Dennis Hemmer, Director
City of Cheyenne, Leo Pando, Mayor
Town of Torrington, Ed Jolovich, Mayor
Laramie Rivers Conservation District, Michael Parker, Chairman
Platte County Conservation District, Jack Finnerty, Chairman
Converse County Conservation District, Johnnie Pickinpaugh, Chairman
Sublette County Conservation District, Darrell Walker, Chairman
Lingle-Ft. Laramie Conservation District, John Rose, Chairman
Saratoga, Encampment, Rawlins Conservation District, Scott Kerbs, Chairman
Star Valley Conservation District, Le Ron Allred, Chairman
Teton County Natural Resource District, Gene Hoffman, Chairman

Assistance in the form of funds or services was given by the National Park Service, Grand Teton National Park, U.S. Department of the Interior for 8 staff gages and 67 ground water monitoring wells, of which 28 of these wells include water-quality that are published in this report.

SUMMARY OF HYDROLOGIC CONDITIONS

Ground-Water Levels

Ground-water levels were monitored in a statewide network of 82 observation wells. Wells completed in the High Plains aquifer and located in areas of ground-water withdrawal in southeastern and south-central Wyoming constitute over 60 percent of the observation-well network. Ground water is withdrawn from the High Plains aquifer for irrigation in Niobrara, Platte, Goshen, and eastern Laramie Counties. Substantial ground-water withdrawals from the High Plains aquifer for municipal and domestic use occur in central Laramie County.

Water levels were measured in at least one observation well in 16 of the 23 counties in Wyoming. During water year 1997, continuous ground-water-level measurements were recorded at 64 observation wells equipped with float-driven, digital recorders, and at two artesian wells equipped with pressure-sensing transducers and electronic data recorders. Water levels in the remaining wells in the network were measured manually with a steel or electric tape, or an air line.

Changes in water levels for the statewide observation-well network and wells specifically completed in the High Plains aquifer are summarized in table 1. The changes in water levels from water year 1996 to water year 1997 were determined from the difference between the highest water levels measured each year. Some wells in the network were not included in the comparison of water-level changes between years because insufficient data were collected at the wells for an accurate comparison. Most of the wells that were not included in the comparison of water-level changes between years were hand-measured wells, where only two or three measurements per year were collected.

Table 1--Changes in ground-water levels in statewide network of 82 observation wells and 52 wells in the High Plains aquifer.

	Years	Number of wells	Increase in water level (number of wells)	Average increase (in feet)	Decrease in water level (number of wells)	Average decrease (in feet)	Insufficient data for comparison (number of wells)
Statewide network	1996-97	82	28	1.17	33	-1.08	21
High plains aquifer	1996-97	52	18	0.88	29	-1.08	5

Hydrographs for representative observation wells in southeastern Wyoming are shown in figure 2.

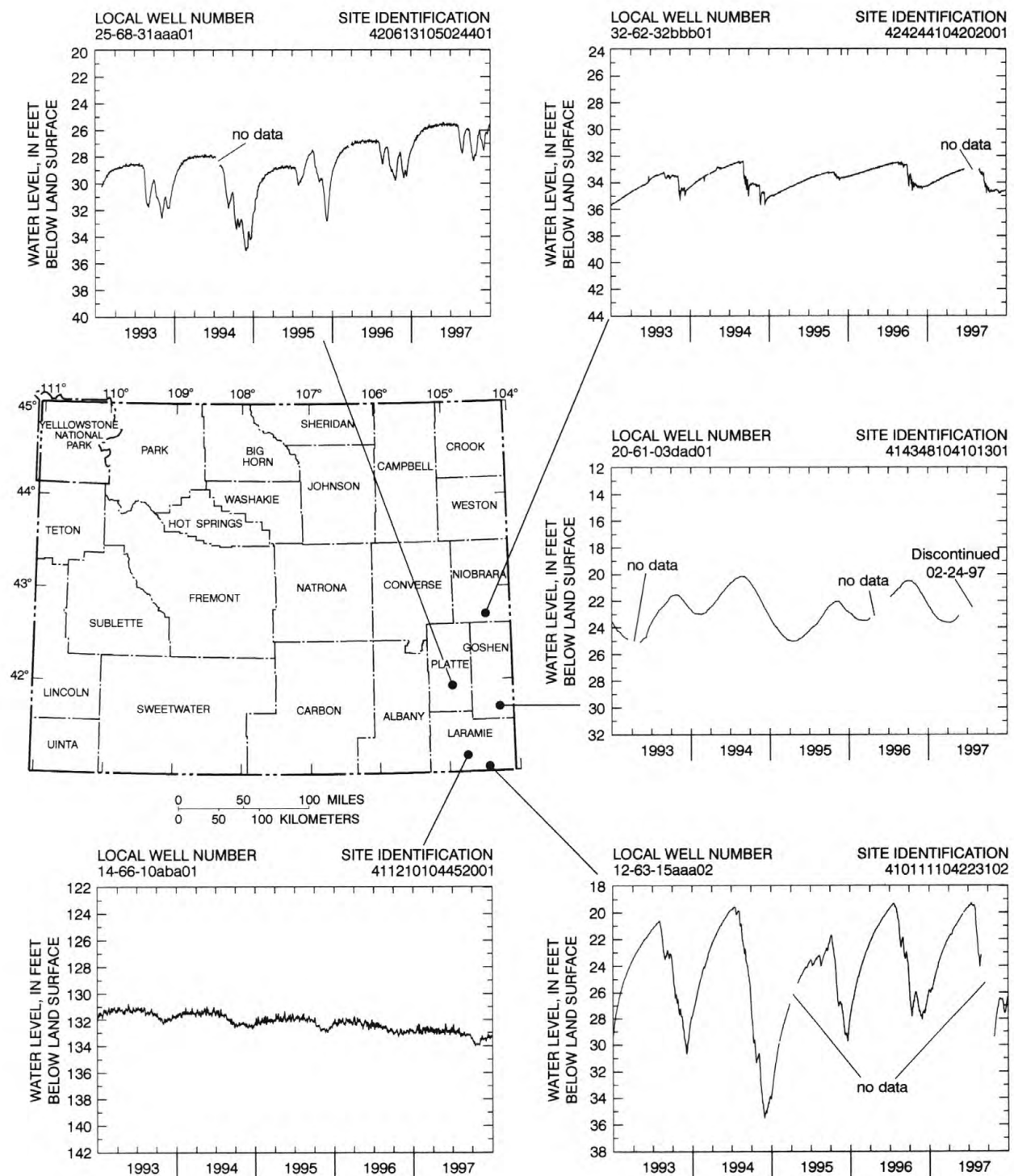


Figure 2. Water-level hydrographs for observation wells in areas of extensive ground-water withdrawals, October 1992 through September 1997.

EXPLANATION OF THE RECORDS

Numbering System for Wells

All wells listed in this report, except for one well located on the Wind River Indian Reservation, are identified according to the Federal township-range system of land subdivision, and also are assigned a local number. An example of a local number in this report is 14-063-15aaa01 (fig. 3). The first number (14) denotes the township, the second number (063) denotes the range, and the third number (15) denotes the section. The first letter following the section number denotes the quarter section (160-acre tract); the second letter, the quarter-quarter section (40-acre tract); and the third letter, if shown, the quarter-quarter-quarter section (10-acre tract). These subsections are designated a, b, c, and d in a counter-clockwise direction, beginning in the northeastern quadrant. The last two numbers in the local number are a sequence number indicating the order of inventory. For example, in figure 3, observation well 14-063-15aaa01 is the first well inventoried in the northeastern quarter of the northeastern quarter of the northeastern quarter of section 15, township 14 north (T. 14 N.), range 63 west (R. 63 W.). All wells in the counties have ranges west of the Sixth Principal Meridian, and townships north of the 40th Parallel Base Line.

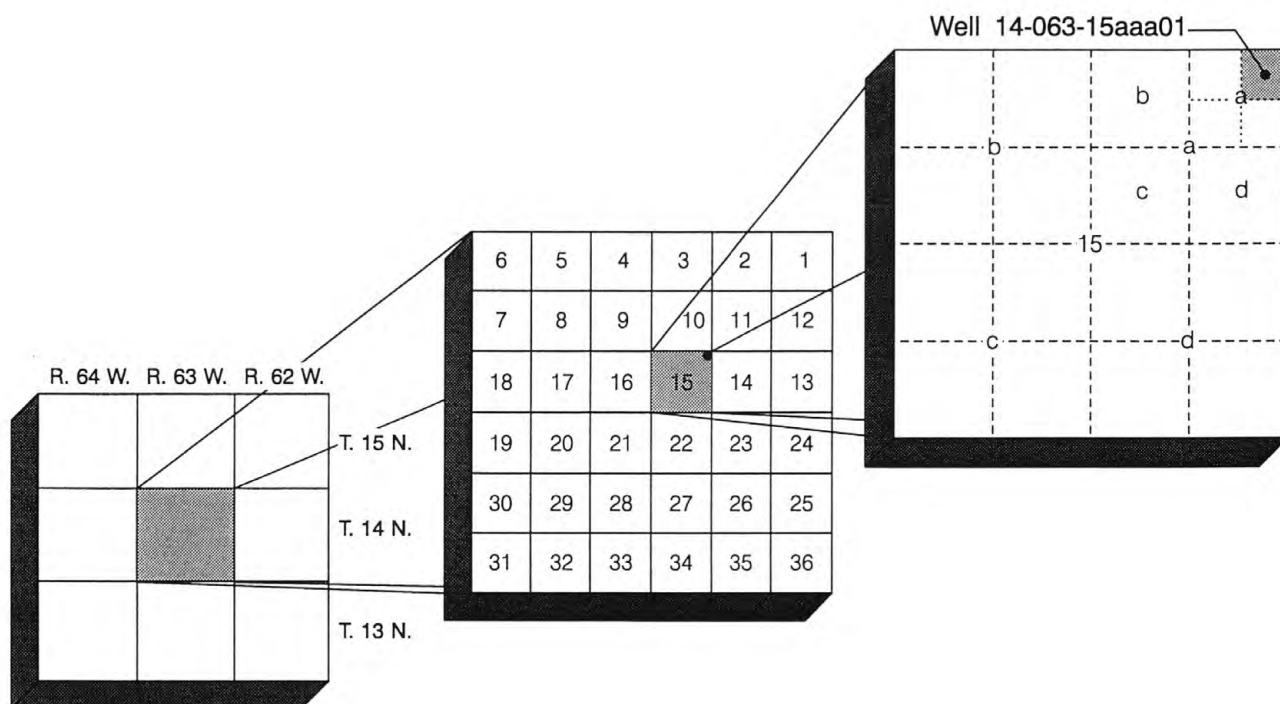


Figure 3. Federal township-range system for numbering wells.

On the Wind River Indian Reservation, the township-range system is based on the Wind River Meridian and Base Line system. Townships are denoted as north or south of the base line and ranges are denoted as east or west of the meridian. Wells may be located in the northeastern, northwestern, southwestern, or southeastern quadrants of this base-line and meridian net. For example, in figure 4, observation well 1N-4E-28acc01 is the first well inventoried in the southwestern quarter of the southwestern quarter of the northeastern quarter of section 28, township 1 north, range 4 east, in the northeastern quadrant of the Wind River Indian Reservation.

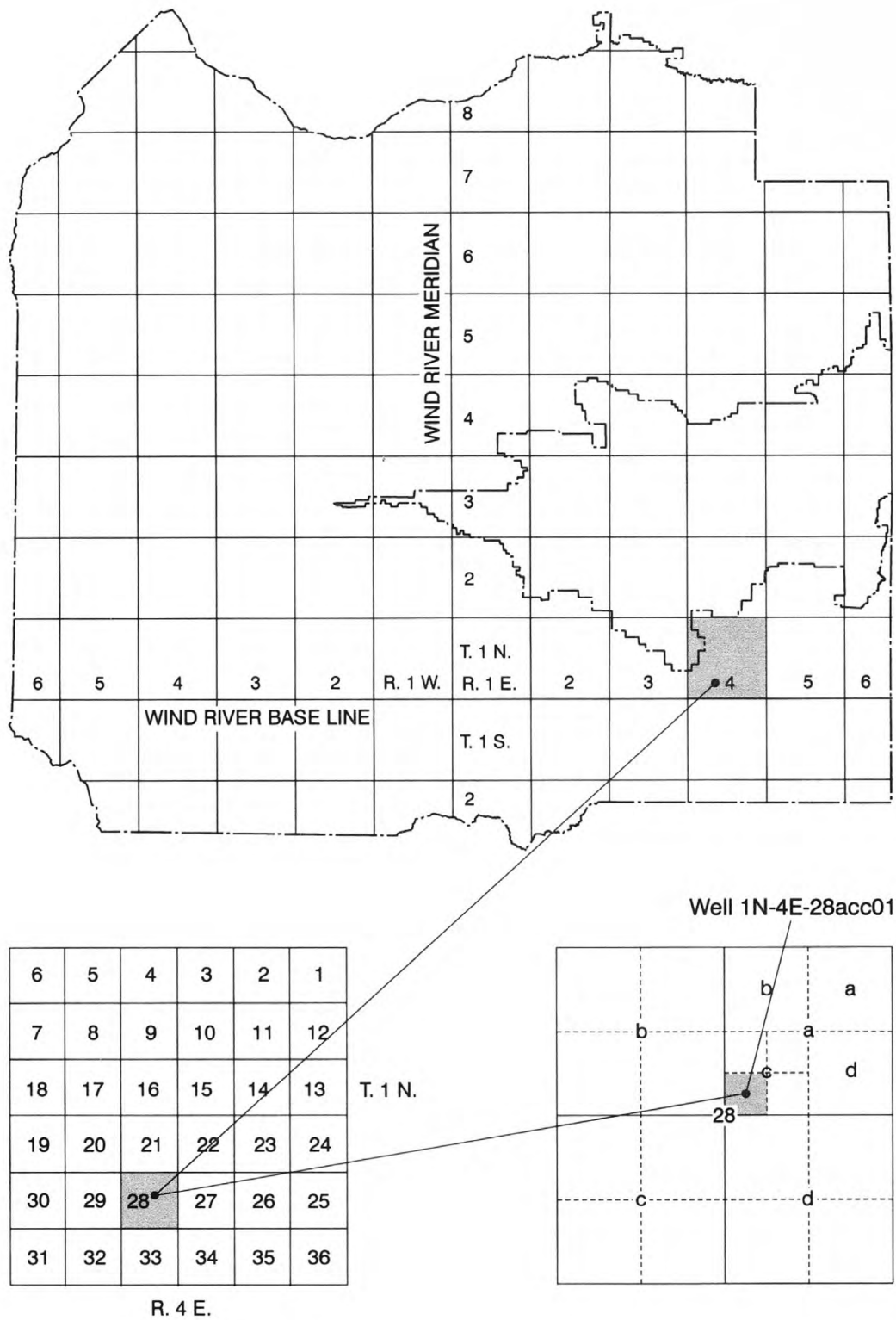


Figure 4. System for numbering wells in the Wind River Indian Reservation.

Latitude-Longitude System

Identification numbers also are assigned to wells according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of north latitude, the next seven digits denote degrees, minutes, and seconds of west longitude, and the last two digits (assigned sequentially) identify the order of inventory of sites if more than one site lies within a 1-second grid (fig. 5). This site-identification number, once assigned, is arbitrary and has no locational significance. If the initial determination of latitude and longitude is found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description.

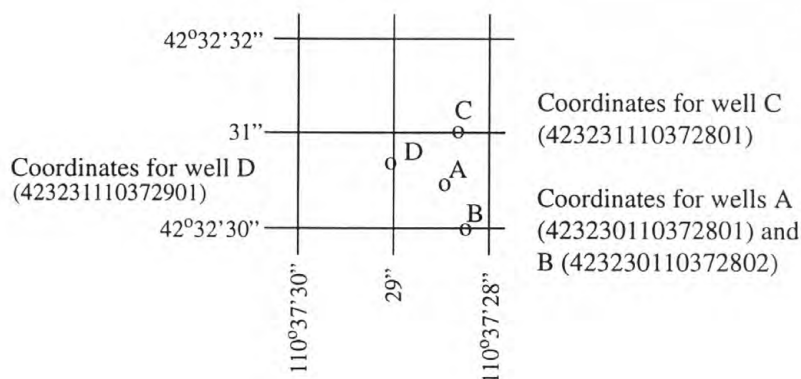


Figure 5. System for numbering wells (latitude and longitude).

Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given to a tenth of a foot or a larger unit.

Presentation of Data

Water-level data are presented by county; the counties for which water-level data are available are listed alphabetically. Records of observation wells for each county are preceded by a map showing the location of the wells in that county (figs. 6-21). Water-level hydrographs or hydraulic-head hydrographs for the period of record for each well follow the map for each county. A table above each hydrograph lists water-level measurements taken during water year 1997. For wells equipped with continuous water-level recorders the table lists the daily maximum recorded water-level for every fifth day and the end of the month (EOM). For hand-measured wells the table lists all water-level measurements taken during water year 1997.

The hydrographs for the 82 observation wells were plotted using data from either continuous water-level records or periodic water-level measurements. The daily maximum water level was used for plotting hydrographs for wells equipped with continuous recorders. The hydrographs show water-level fluctuations and water-level trends. If more precise water levels are needed, tabulations of actual water-level measurements are available from the U.S. Geological Survey, 2617 East Lincolnway, Suite B, Cheyenne, Wyoming 82001-5662 (telephone 307/778-2931).

Miscellaneous ground-water-level measurements and ground-water quality data are listed at the end of the volume. These data are from wells that are not part of a systematic observation network. Both miscellaneous water-level and water-quality-data are presented in tabular form.

Station manuscript

Local number: See text description of the well-numbering system.

Local name: Local reference name of observation well.

Location: Latitude, longitude, and legal description of well.

Hydrologic unit: Geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an eight digit number.

Aquifer: The geologic formation, group of formations, or part of a formation that the well is completed in.

Well characteristics: Depth of well, in feet below land surface.

Datum: Elevation of land surface in feet above sea level. Water levels are given in feet below or above this datum plane.

Measuring point: Arbitrary permanent reference point from which the distance to the water surface is measured to obtain the water level. The height of the measuring point above or below the land surface is subtracted or added to the water-level measurement to give the depth to water below the land surface or feet of head above the land surface.

Period of record: Years for which water-level measurements are available.

Extremes for period of record: The highest and lowest water levels or hydraulic heads recorded for the period of record which represent the static water levels, in feet below land surface, or hydraulic heads, in feet above land surface, unless otherwise footnoted.

Explanation of Hydrographs

_____ Water-level or hydraulic-head data collected by electronic data recorders or pressure transducers. Missing sections of lines indicate periods of no data. Typically, intermittent periods of no data are the result of recording equipment malfunctions.

□ --- □ Individual water-level measurements. Dashed line represents periods of no data between measurements.

Ground-Water Quality

Records on ground-water quality in this report differ from records of ground-water levels because for most sampling sites they consist of only one or two sets of measurements for the water year. The quality of ground water ordinarily changes slowly; therefore, for the most general purposes one annual sampling, or a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurements of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In the special cases where ground-water quality may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection

The records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Procedures for on-site measurements and for collecting, treating, and shipping ground-water samples as well as methods used by the U.S. Geological Survey laboratories are given in the publication "Techniques of Water-Resources Investigations", (TWRI) Book 1, Chapter D2. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material comprising the casings.

Data Presentation

The records of ground-water quality are published in a section titled QUALITY OF GROUND WATER immediately following the ground-water-levels records. Data for quality of ground water are grouped by special study and then listed alphabetically by county, and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water.

Remark Codes

The following remark codes may appear with the water-quality data in this report:

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
ND	Not detected

ACCESS TO WATER DATA

The U.S. Geological Survey provides some water-quality and ground-water data through the world wide web (WWW). These data may be accessed at

<http://www.water.usgs.gov>

In addition, data can be provided in various machine-readable formats on magnetic tape or 3-1/2 inch floppy disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division District offices (See address on the back of the title page.)

DEFINITION OF TERMS

Terms related to groundwater, water-quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System (SI) Units on the inside of the back cover.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian pertains to ground water under sufficient hydrostatic pressure to rise above the aquifer containing it. An artesian well is one in which the water rises above the top of the aquifer. A flowing artesian well is one in which the water rises above the land surface.

Dissolved refers to that material (in a representative water sample) which passes through a 0.45 micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determination of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.493 to reflect the change.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate (CaCO_3).

Less than (<) is a remark code indicating that the analyzed value is known to be less than the numeric value listed. The value associated with the "<" remark indicates the detection limit of the applied laboratory.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain the water level. The MP is added or subtracted appropriately from the measurement value to obtain the water level relative to land surface.

Method reporting limit (MRL) is the default "less-than" concentration reported when a compound is not detected using an analytical method.

Micrograms per gram (UG/G, $\mu\text{g/g}$) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (gram) of material analyzed.

Micrograms per liter (UG/L, $\mu\text{g/L}$) is a unit expressing the concentration of a chemical constituent in solution as the mass (micrograms) of solute per unit volume (liter) of solution. One thousand micrograms per liter is equivalent to one milligram per liter.

Microsiemens per centimeter at 25 degrees Celsius (US/CM, $\mu\text{S/cm}$) is a unit for reporting specific electrical conductance.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of a chemical constituent in solution as the mass of solute per unit volume (liter) of solution. Concentration of suspended sediment also is expressed in mg/L and is based on the mass of dry sediment per liter of water-sediment mixture.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH indicates the degree of acidity or alkalinity of water and is expressed in logarithmic units. The pH value of an aqueous solution is the negative logarithm of the hydrogen-ion concentration, in moles per liter.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Sea level in this report refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 degrees Celsius. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the total dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 60 to 65 percent of the specific conductance (in microsiemens per centimeter at 25 degrees Celsius). This relationship is not constant from one source of water to another, and may vary in the same source with changes in the composition of the water.

Turbidity of a sample is the reduction of transparency because of the presence of particulate matter. In this report it is expressed in Nephelometric turbidity units (NTU), obtained from the nephelometric method for turbidity determination which measures the intensity of light scattered by suspended particles at 90 degrees from the path of an incident light source.

TWRI is used as an abbreviation for "Techniques of Water-Resources Investigations" in reference to previously published reports.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period October 1 through the following September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1990, is called "water year 1990."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section B of Book 3 (Applications of Hydraulics) pertains to ground water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Branch of Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

- 1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F. P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L.M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 2-E2. *Borehole geophysics applied to ground-water investigations*, by W. S. Keys: USGS--TWRI Book 2, Chapter E2. 1990. 150 pages.
- 2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W. E. Teasdale: USGS--TWRI Book 2, Chapter F1. 1989. 97 pages.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.

- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurement at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
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- 3-A9. *Measurement of time of travel in streams by dye tracing*, by F. A. Kilpatrick and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.
- 3-A10. *Discharge ratings at gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.
- 3-A11. *Measurement of discharge by the moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-A12. *Fluorometric procedures for dye tracing*, Revised, by J. F. Wilson, Jr., E. D. Cobb, and F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 34 pages.
- 3-A13. *Computation of continuous records of streamflow*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.
- 3-A14. *Use of flumes in measuring discharge*, by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.
- 3-A16. *Measurement of discharge using tracers*, by F. A. Kilpatrick and E. D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.
- 3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.
- 3-A18. *Determination of stream reaeration coefficients by use of tracers*, by F. A. Kilpatrick, R. E. Rathbun, Nobuhiro Yotsukura, G. W. Parker, and L. L. DeLong: USGS--TWRI Book 3, Chapter A18. 1989. 52 pages.
- 3-A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 31 pages.
- 3-A20. *Simulation of soluble waste transport and buildup in surface waters using tracers*, by F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A20. 1993. 38 pages.
- 3-A21. *Stream-gaging cableways*, by C. Russell Wagner: USGS--TWRI Book 3, Chapter A21. 1995. 56 pages.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programmed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-B4. *Regression modeling of ground-water flow*, by R. L. Cooley and R. L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 pages.

- 3-B4. *Supplement 1. Regression modeling of ground-water flow - Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems*, by R. L. Cooley: USGS--TWRI Book 3, Chapter B4. 1993. 8 pages.
- 3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems--An introduction*, by O. L. Franke, T. E. Reilly, and G. D. Bennett: USGS--TWRI Book 3, Chapter B5. 1987. 15 pages.
- 3-B6. *The principle of superposition and its application in ground-water hydraulics*, by T. E. Reilly, O. L. Franke, and G. D. Bennett: USGS--TWRI Book 3, Chapter B6. 1987. 28 pages.
- 3-B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow*, by E. J. Wexler: USGS--TWRI Book 3, Chapter B7. 1992. 190 pages.
- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M.J. Fishman and L. C. Friedman, editors: USGS--TWRI Book 5, Chapter A1. 1989. 545 pages.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R. L. Wershaw, M. J. Fishman, R. R. Grabbe, and L. E. Lowe: USGS--TWRI Book 5, Chapter A3. 1987. 80 pages.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by L. J. Britton and P. E. Greeson, editors: USGS--TWRI Book 5, Chapter A4. 1989. 363 pages.
- 5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L.L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L. C. Friedman and D. E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M. G. McDonald and A. W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 pages.
- 6-A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model*, by S. A. Leake and D. E. Prudic: USGS--TWRI Book 6, Chapter A2. 1991. 68 pages.

- 6-A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual*, by L. J. Torak: USGS--TWRI Book 6, Chapter A3. 1993. 136 pages.
- 6-A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions*, by R. L. Cooley: USGS--TWRI Book 6, Chapter A4. 1992. 108 pages.
- 6-A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details*, by L. J. Torak: USGS--TWRI Book 6, Chapter A5, 1993. 243 pages.
- 6-A6. A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction, by Eric D. Swain and Eliezer J. Wexler. 1995. 125 pages.
- 7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. *A model for simulation of flow in singular and interconnected channels*, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
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- 8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.
- 9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators*, by D. N. Myers and F. D. Wilde: USGS--TWRI Book 9, Chapter A7. 1997. 49 pages.

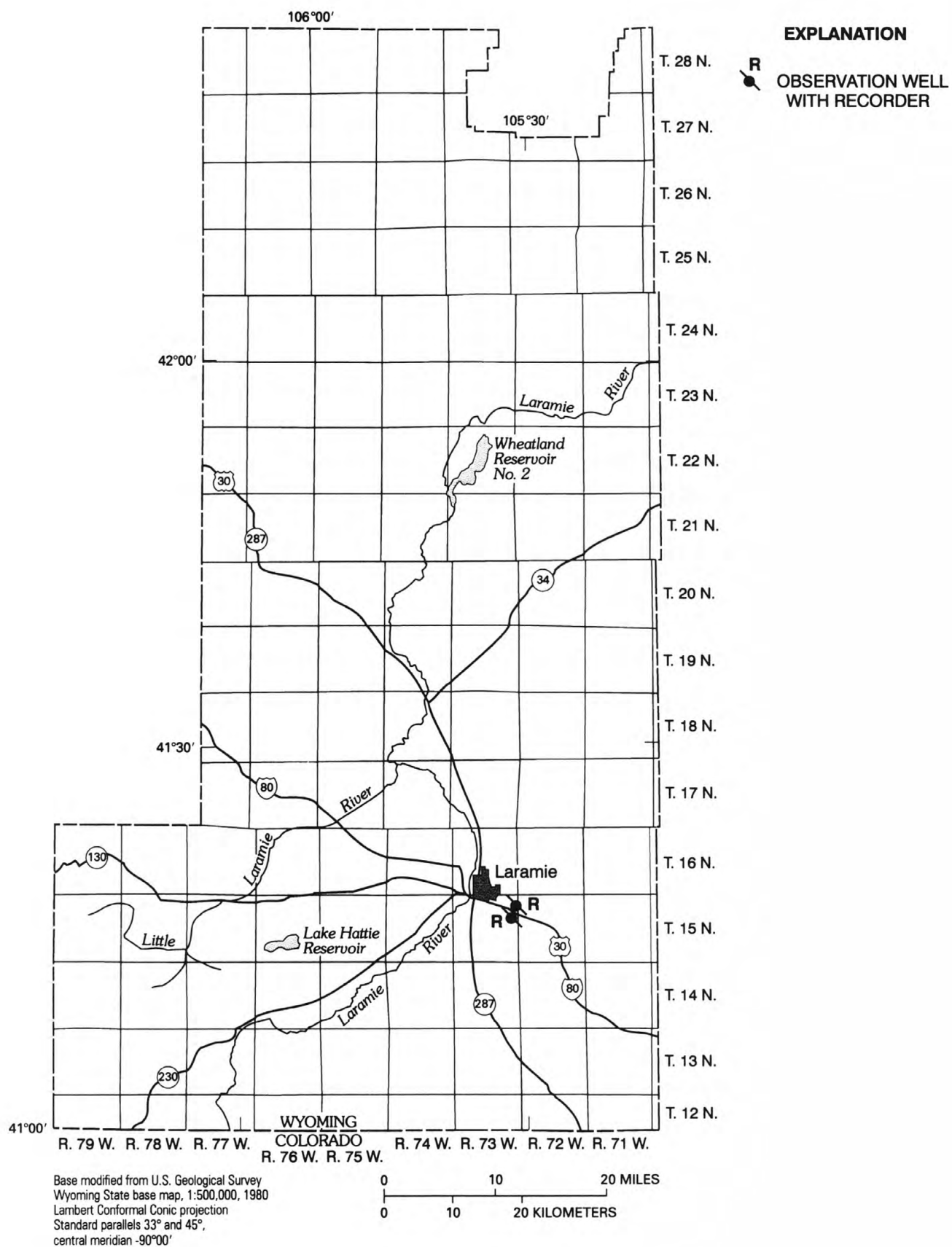


Figure 6. Location of observation wells in Albany County, Wyoming.

GROUND-WATER LEVELS

17

ALBANY COUNTY

411751105312701. Local number, 15-073-01dba01. Local name, Huntoon #1.

Location.--Lat 41°17'51", long 105°31'27", in NE¹/₄ NW¹/₄ SE¹/₄ sec.1, T.15 N., R.73 W., Hydrologic Unit 10180010.
Owner: Wyoming Water Research Center and City of Laramie.

Aquifer.--Casper Formation.

WELL CHARACTERISTICS.--Depth of well, 182 ft below land surface.

DATUM.--Elevation of land surface is 6,500 ft above sea level, from topographic map. Measuring point: top of casing, 0.9 ft above land surface.

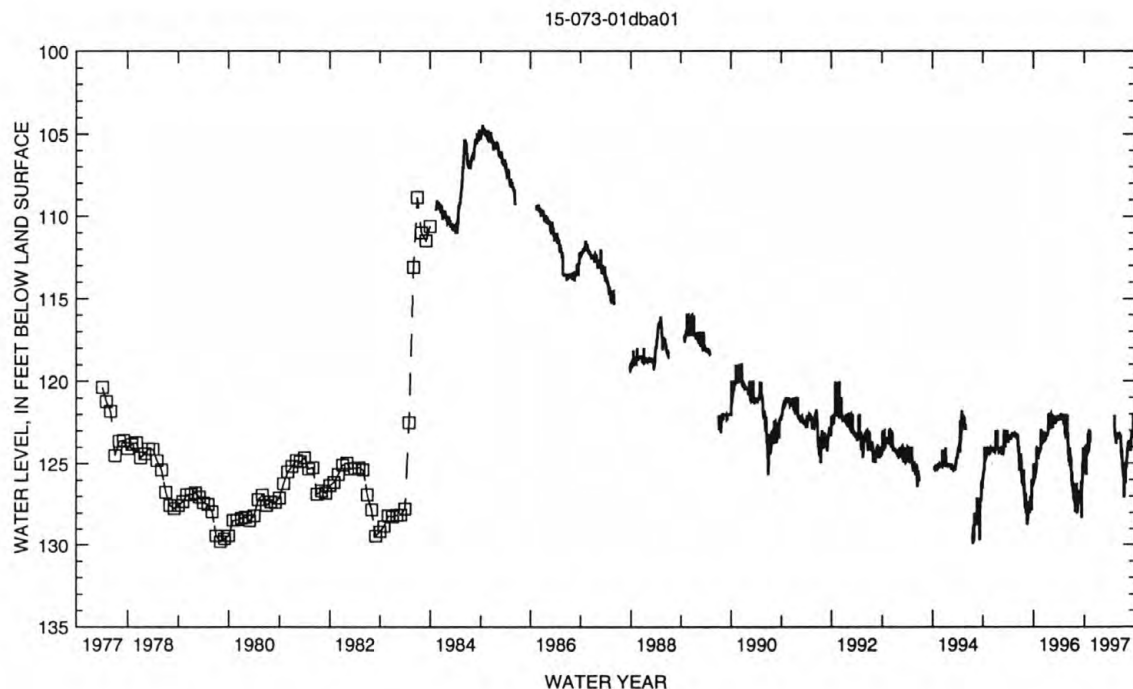
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 104.45 ft below land surface, Oct. 17, 1984; lowest, 129.95 ft below land surface, July 22, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	124.08	123.04	---	---	---	---	---	---	123.31	125.37	124.68	123.56
10	125.00	123.04	---	---	---	---	---	123.16	123.34	125.72	124.15	122.96
15	124.04	---	---	---	---	---	---	123.46	123.44	126.08	123.81	123.43
20	124.49	---	---	---	---	---	---	123.84	123.32	125.57	123.72	123.05
25	124.16	---	---	---	---	---	---	123.31	124.34	126.21	124.14	122.60
EOM	124.11	---	---	---	---	---	---	123.32	124.11	124.94	124.12	122.60
WTR YR 1997	HIGHEST	121.95	SEP 21	LOWEST	127.09	JUL 16						



GROUND-WATER LEVELS

ALBANY COUNTY

411703105314001. Local number, 15-073-12dbb01. Local name, Huntoon #2.

LOCATION.--Lat 41°17'03", long 105°31'40", in NW¹/₄ NW¹/₄ SE¹/₄ sec.12, T.15 N., R.73 W., Hydrologic Unit 10180010.
Owner: Wyoming Water Research Center.

AQUIFER.--Casper Formation.

WELL CHARACTERISTICS.--Depth of well, 243 ft below land surface.

DATUM.--Elevation of land surface is 6,500 ft above sea level, from topographic map. Measuring point: top of casing, 1.30 ft above land surface.

COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

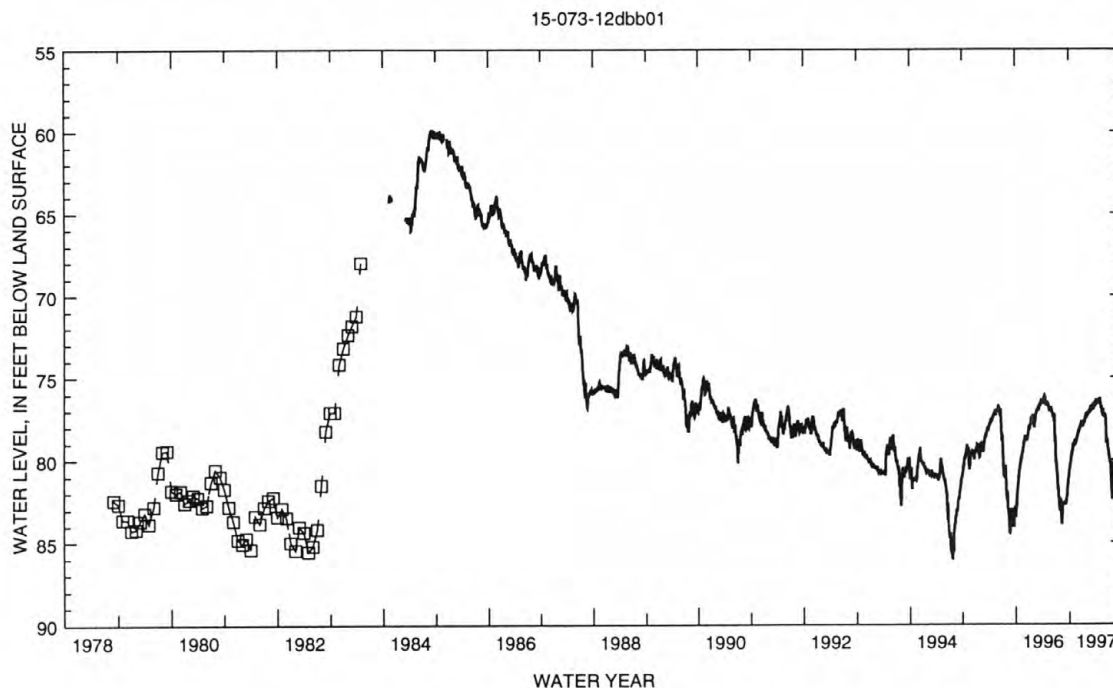
PERIOD OF RECORD.--1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 59.84 ft below land surface, Sept. 7, 1984; lowest, 86.08 ft below land surface, July 24, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	80.53	78.93	78.19	77.96	77.26	77.03	76.41	76.58	77.23	79.86	80.52	78.97
10	80.21	78.84	78.08	77.64	77.18	76.86	76.53	76.83	77.43	80.13	79.92	78.71
15	79.89	79.00	78.03	77.60	77.14	76.78	76.56	77.01	78.86	80.73	79.47	78.56
20	79.63	78.72	77.86	77.42	77.00	76.72	76.48	77.26	78.75	81.77	79.42	78.32
25	79.30	78.69	77.77	77.31	76.85	76.81	76.50	77.05	79.26	82.07	79.26	78.06
EOM	79.20	78.48	77.77	77.27	76.77	76.54	76.38	77.26	79.49	81.09	79.17	77.99

WTR YR 1997 HIGHEST 76.25 MAY 1 LOWEST 82.40 JUL 23



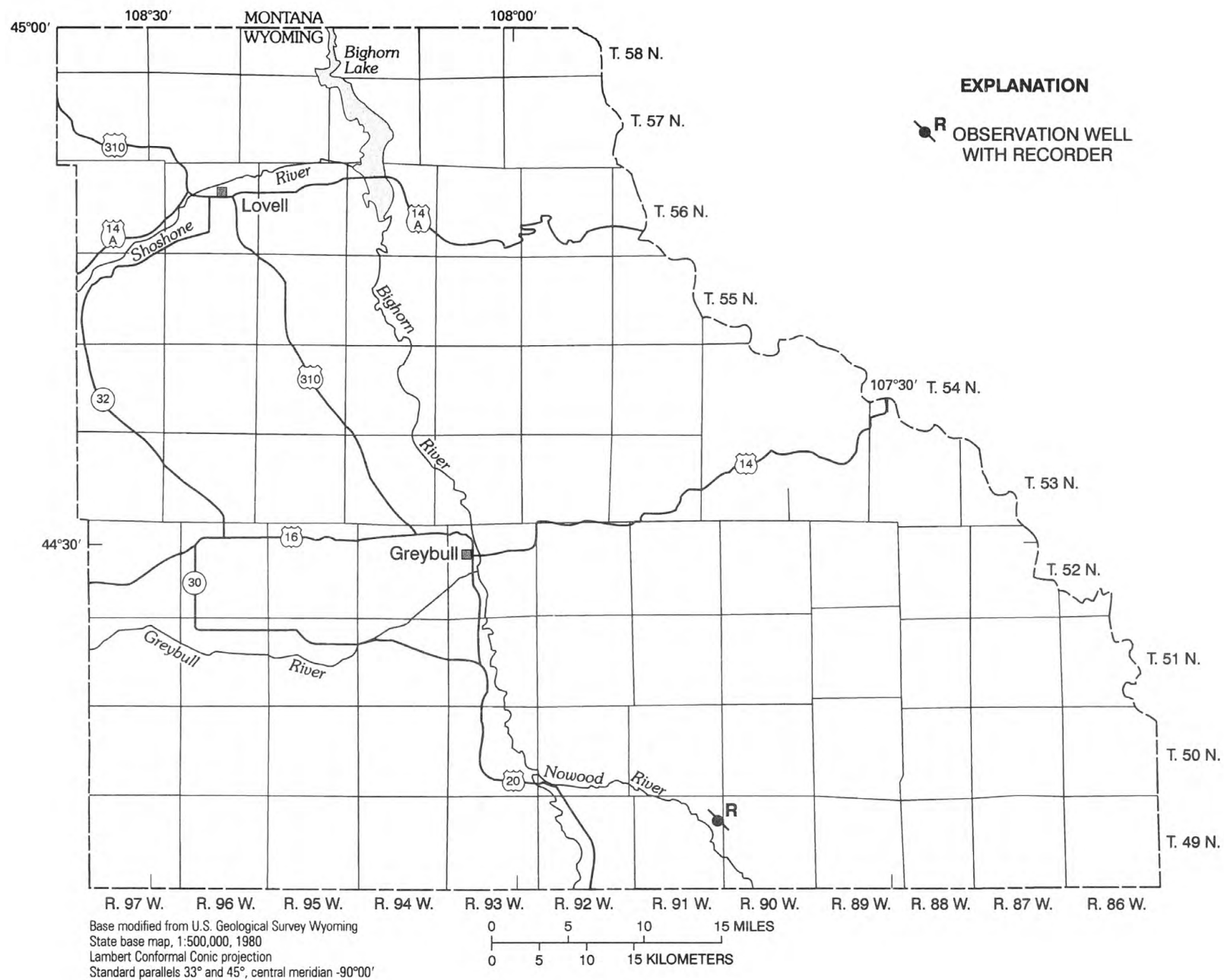


Figure 7. Location of observation well in Big Horn County, Wyoming.

BIG HORN COUNTY

441351107434701. Local number, 49-091-12dba01. Local name, Worland-1.

LOCATION.--Lat 44°13'53", long 107°43'41", in NE¹/₄ NW¹/₄ SE¹/₄ sec.12, T.49 N., R.91 W., Hydrologic Unit 10080008.
Owner: City of Worland.

AQUIFER.--Madison Limestone.

WELL CHARACTERISTICS.--Depth of well, 2,730 ft below land surface.

DATUM.--Elevation of land surface is 4,421.7 ft above sea level, from levels.

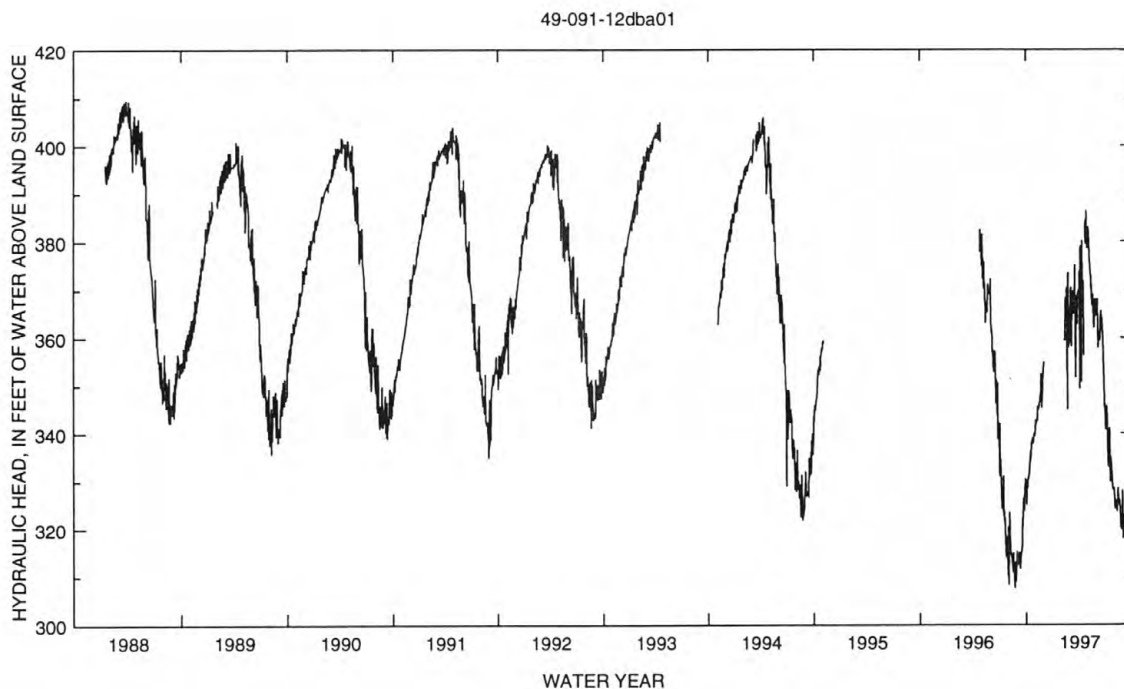
REMARKS.--Shut-in pressure was measured by pressure transducer and converted to hydraulic head above land surface for illustration purposes. Hydraulic head, in feet above land surface, was calculated by multiplying the shut-in pressure in pounds per square inch times 2.31. The accuracy of the hydraulic head measurements is ± 5.0 ft. Data collected by U.S. Geological Survey.

PERIOD OF RECORD.--1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest hydraulic head, 409.50 ft above land surface, Mar. 26, 1988; lowest, 307.59 ft above land surface, Aug. 23, 1996.

HYDRAULIC HEAD, IN FEET ABOVE LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	329.60	342.03	---	---	---	370.45	378.54	381.55	360.28	345.73	325.22	318.69
10	330.58	345.49	---	---	---	369.76	369.30	373.69	360.28	333.25	325.62	318.01
15	334.38	345.73	---	---	368.37	366.06	370.92	368.37	364.92	341.10	325.16	319.84
20	338.07	347.57	---	---	352.89	351.73	---	367.22	362.60	334.08	322.38	324.23
25	338.33	347.39	---	---	358.44	368.60	383.16	366.57	352.43	328.39	320.77	327.47
EOM	340.18	353.58	---	---	359.13	369.99	380.20	364.68	343.41	325.75	321.23	327.01
WTR YR 1997	HIGHEST	317.53	SEP 9	LOWEST	382.93	MAY 3						



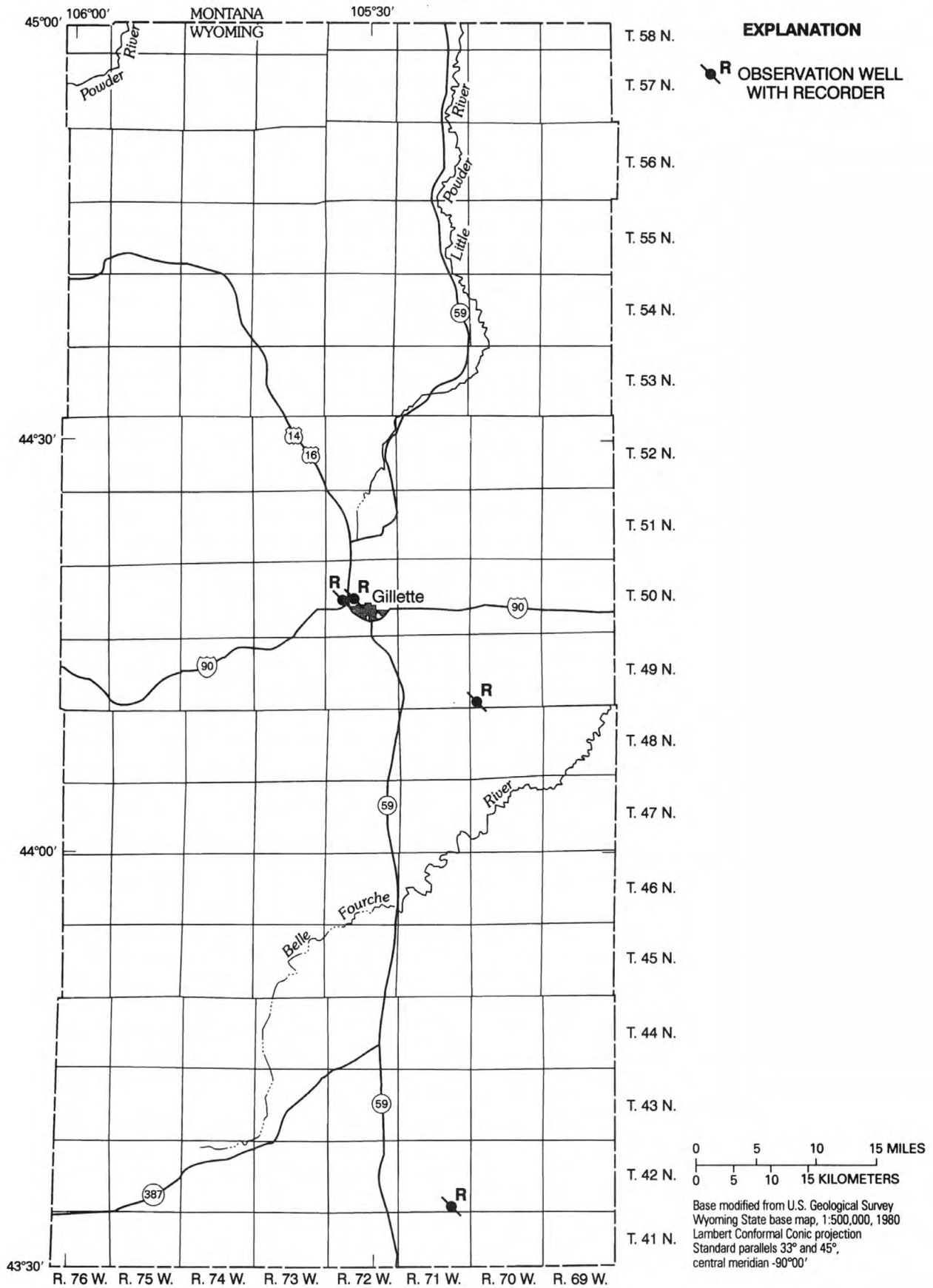


Figure 8. Location of observation wells in Campbell County, Wyoming.

GROUND-WATER LEVELS

CAMPBELL COUNTY

433438105225401. Local number, 42-071-35aaa01. Local name, Ech-8.

LOCATION.--Lat 43°34'38", long 105°22'54", in NE¹/₄ NE¹/₄ NE¹/₄ sec.35, T.42 N., R.71 W., Hydrologic Unit 10120101.
Owner: Thunder Basin Coal Company and State of Wyoming.

AQUIFER.--Wasatch Formation.

WELL CHARACTERISTICS.--Depth of well, 399 ft below land surface.

DATUM.--Elevation of land surface is 4,732 ft above sea level, from topographic map. Measuring point: top of casing, 1.15 ft above land surface.

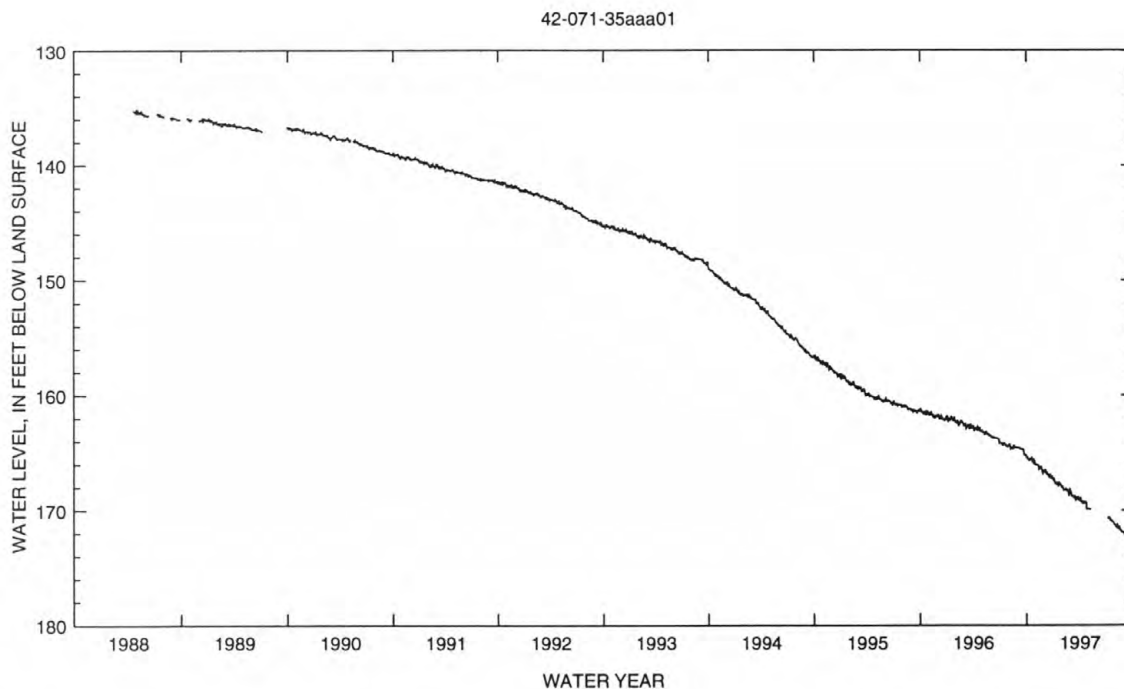
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 135.13 ft below land surface, May 3, 1988; lowest, 172.75 ft below land surface, Sept. 30, 1997.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	165.41	166.05	166.44	167.55	168.26	168.73	168.92	169.90	---	---	171.52	172.22
10	165.59	166.10	166.68	167.59	168.23	168.79	169.28	169.91	---	170.63	171.57	172.22
15	165.57	166.25	166.98	167.59	168.26	168.79	169.30	---	---	170.87	171.42	172.25
20	165.50	166.21	166.88	167.65	168.29	168.98	169.26	---	---	170.98	171.79	172.66
25	165.56	166.73	167.17	167.77	168.47	169.12	169.90	---	---	171.05	171.89	172.62
EOM	166.03	166.69	167.32	167.91	168.21	168.95	169.90	---	---	171.26	171.98	172.75
WTR YR 1997	HIGHEST		165.22	OCT 1	LOWEST		172.75	SEP 30				



CAMPBELL COUNTY

441117105192901. Local number, 49-070-31bbb01. Local name, Hampshire-1.

LOCATION.--Lat 44°11'17", long 105°19'29", in NW¹/4 NW¹/4 NW¹/4 sec.31, T.49 N., R.70 W., Hydrologic Unit 10120201.
Owner: Hampshire Energy.

AQUIFER.--Fox Hills Formation.

WELL CHARACTERISTICS.--Depth of well, 3,750 ft below land surface.

DATUM.--Elevation of land surface is 4,620 ft above sea level, from topographic map. Measuring point: top of casing, 1.60 ft above land surface.

REMARKS.--Because of the extreme depths to water and well construction, the accuracy of water-level measurements is ± 2.0 ft.

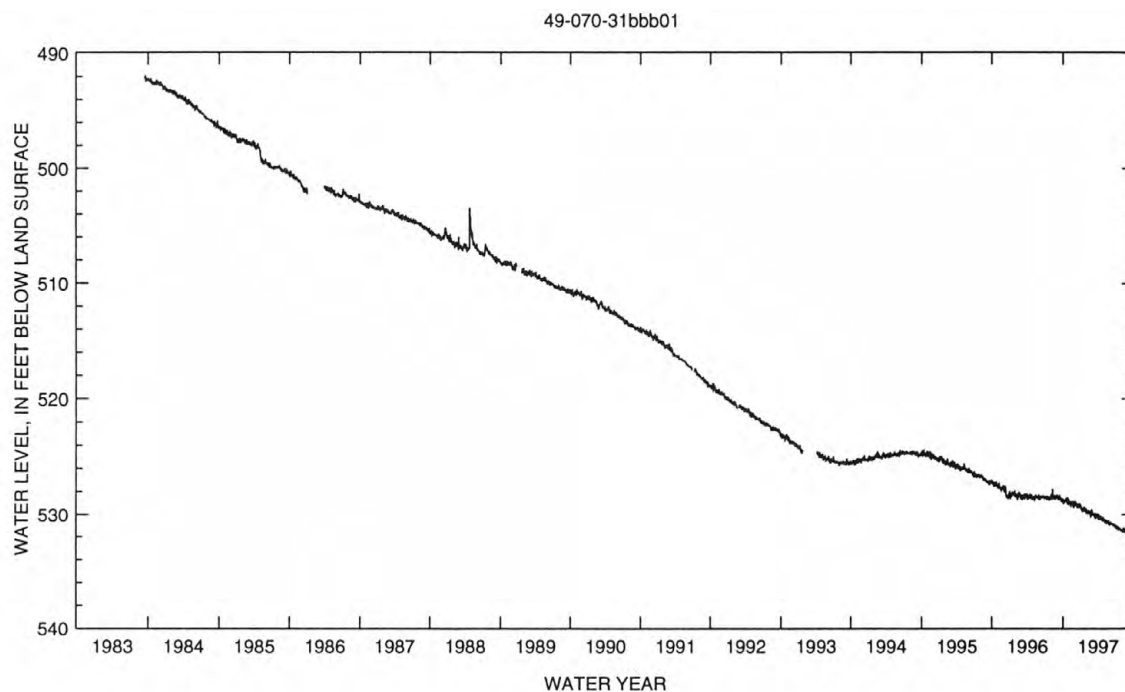
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 491.98 ft below land surface, Sept. 17, 1983; lowest, 531.98 ft below land surface, Sept. 23, 1997.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	528.80	528.92	528.87	529.56	529.90	530.08	530.05	530.65	530.77	531.25	531.58	531.69
10	528.83	529.08	528.97	529.58	529.81	530.03	530.45	530.74	530.88	531.07	531.53	531.65
15	528.77	528.98	529.28	529.43	529.82	529.97	530.43	530.76	530.89	531.30	531.24	531.57
20	528.70	528.84	529.06	529.38	529.84	530.12	530.25	530.68	530.90	531.33	531.59	531.96
25	528.59	529.27	529.31	529.50	529.90	530.28	530.59	530.60	531.16	531.32	531.60	531.82
EOM	529.04	529.16	529.34	529.58	529.64	530.07	530.37	530.82	531.00	531.42	531.54	531.91
WTR YR 1997	HIGHEST		528.57	OCT 19	LOWEST		531.98	SEP 23				



GROUND-WATER LEVELS

CAMPBELL COUNTY

441748105323301. Local number, 50-072-20cab01. Local name, Dickinson.

LOCATION.--Lat 44°17'48", long 105°32'33", in NW¹/₄ NE¹/₄ SW¹/₄ sec.20, T.50 N., R.72 W., Hydrologic Unit 10120201.
Owner: Mrs. Jesse Worley.

AQUIFER.--Shale Member of Fort Union Formation.

WELL CHARACTERISTICS.--Depth of well, 1,260 ft below land surface..

DATUM.--Elevation of land surface is 4,610 ft above sea level, from topographic map. Measuring point: top of casing, 1.5 ft above land surface.

REMARKS.--Because of the extreme depths to water and well construction, the accuracy of water-level measurements is ± 2.0 ft.

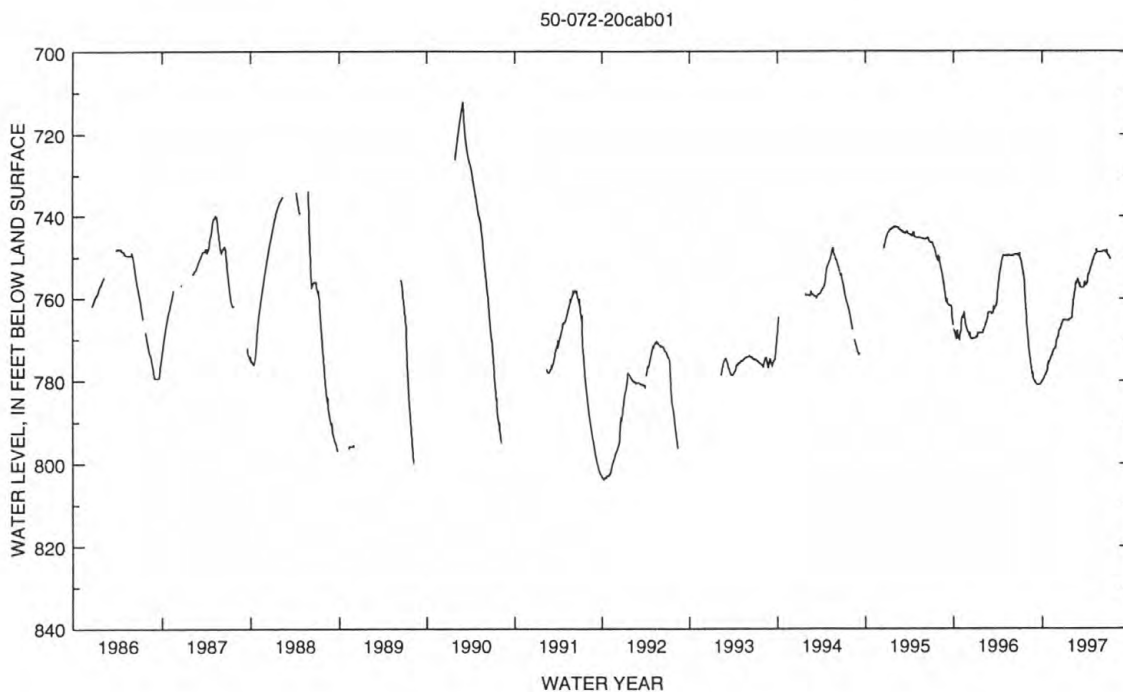
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1985 to July 9, 1997 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 712.08 ft below land surface, Feb. 28, 1990, lowest, 803.78 ft below land surface, Oct. 9, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	779.64	774.55	769.32	765.15	761.41	756.09	755.99	749.36	748.50	749.90	---	---
10	779.02	773.75	767.63	765.31	759.07	757.31	754.06	749.00	748.46	---	---	---
15	778.33	772.84	767.13	765.31	757.37	757.31	753.36	748.66	748.37	---	---	---
20	777.79	772.19	766.22	765.02	756.07	757.19	752.03	748.56	748.61	---	---	---
25	775.64	771.96	765.54	764.94	755.22	756.06	751.29	748.56	749.12	---	---	---
EOM	775.31	769.97	765.15	764.57	755.92	756.54	750.20	748.56	749.39	---	---	---
WTR YR 1997	HIGHEST 748.00 MAY 11, 12				LOWEST 780.09 OCT. 1, 2.							



CAMPBELL COUNTY

441819105305701. Local number, 50-072-21aba01. Local name, Gillette H-13.

LOCATION.--Lat 44°18'19", long 105°30'57", in NE¹/₄ NW¹/₄ NE¹/₄ sec.21, T.50 N., R.72 W., Hydrologic Unit 10120201.
Owner: City of Gillette.

AQUIFER.--Wasatch Formation.

WELL CHARACTERISTICS.--Depth of well, 320 ft below land surface.

DATUM.--Elevation of land surface is 4,500 ft above sea level, from topographic map. Measuring point: top of casing, 6.35 ft below land surface.

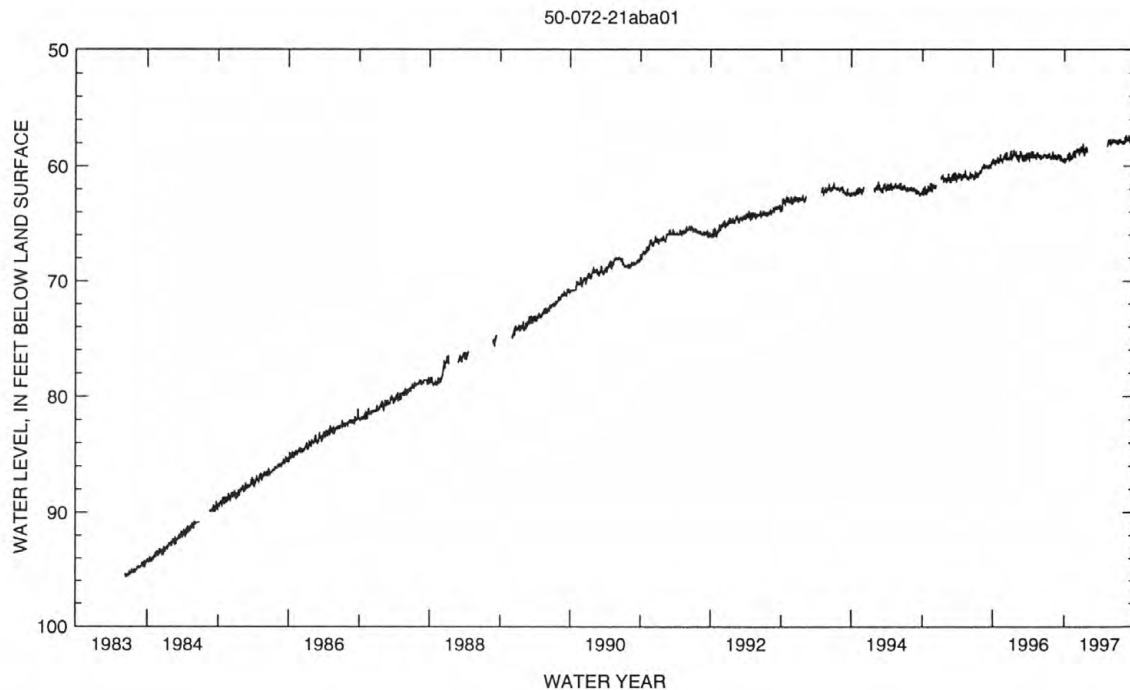
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 57.37 ft below land surface, Aug. 15, 1997; lowest, 95.71 ft below land surface, June 14, 1983.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	59.50	59.18	58.46	58.89	---	---	---	---	57.80	58.10	58.07	57.75
10	59.49	59.28	58.51	58.82	---	---	---	58.23	57.86	57.75	57.88	57.68
15	59.32	58.89	58.83	58.59	---	---	---	58.09	57.82	57.94	57.37	57.63
20	59.12	58.66	58.52	58.44	---	---	---	57.94	57.86	58.01	57.78	58.15
25	58.88	59.18	58.74	58.53	---	---	---	57.74	58.10	57.88	57.66	57.89
EOM	59.43	58.85	58.67	---	---	---	---	57.91	57.83	58.00	57.45	57.97
WTR YR 1997	HIGHEST	57.37	AUG 15	LOWEST	59.77	OCT 2						



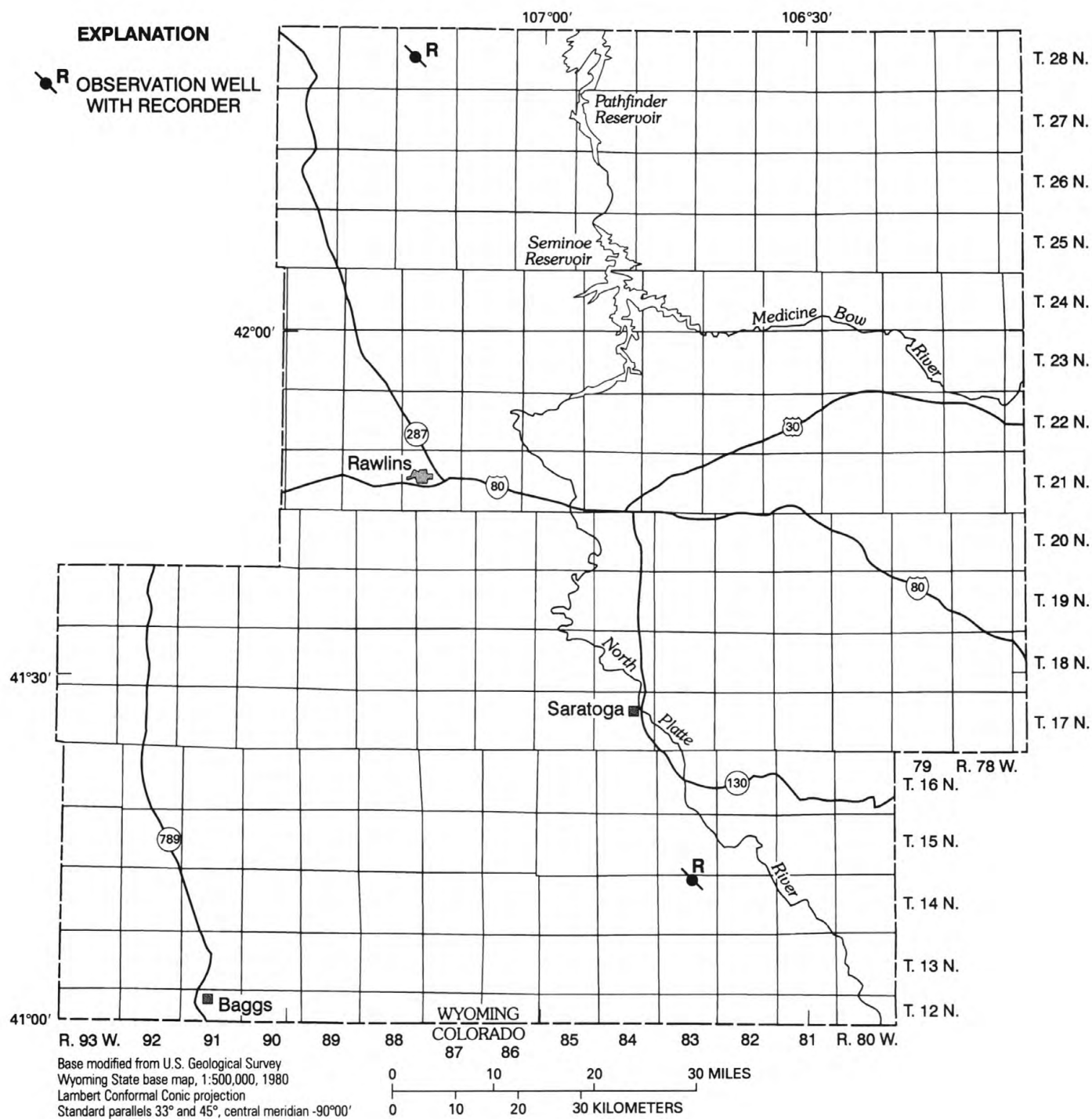


Figure 9. Location of observation wells in Carbon County, Wyoming.

CARBON COUNTY

411234106424601. Local number, 14-083-03cab01. Local name, Helmer South.

LOCATION.--Lat 41°12'34", long 106°42'46", in NW¹/₄ NE¹/₄ SW¹/₄ sec.3, T.14 N., R.83 W., Hydrologic Unit 10180002.
Owner: Ronald Platt and Alice Creighton.

AQUIFER.--North Park Formation.

WELL CHARACTERISTICS.--Depth of well, 58 ft below land surface.

DATUM.--Elevation of land surface is 7,245 ft above sea level, from topographic map. Measuring point: top of casing, 5.40 ft below land surface.

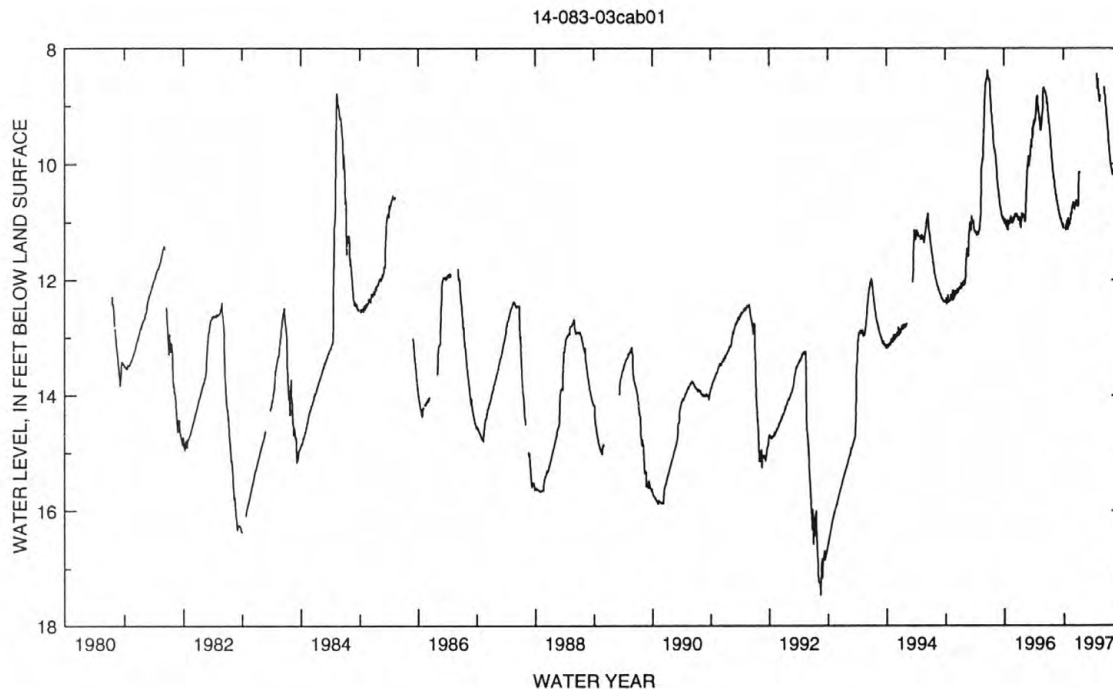
REMARKS.--Data collected by U.S. Geological Survey.

PERIOD OF RECORD.--1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.37 ft below land surface, June 20, 1995; lowest, 17.47 ft below land surface, Aug. 13, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	10.96	10.68	10.13	---	---	---	8.79	---	9.65	10.14	10.54
10	11.11	10.97	10.70	---	---	---	---	8.91	8.77	9.81	10.12	10.62
15	11.05	10.83	10.65	---	---	---	---	8.80	8.93	9.96	10.07	10.68
20	11.03	10.79	10.64	---	---	---	---	---	9.04	10.06	10.26	10.57
25	10.95	10.73	10.66	---	---	---	8.64	---	9.27	10.13	10.38	10.44
EOM	11.03	10.72	10.65	---	---	---	8.56	---	9.42	10.16	10.47	10.53
WTR YR 1997	HIGHEST 8.43 APR 23			LOWEST 11.13 OCT 27								



CARBON COUNTY

422338107145001. Local number, 28-087-16cca01. Local name, Split Rock #2.

LOCATION.--Lat 42°23'38", long 107°14'50", in NE¹/₄ SW¹/₄ SW¹/₄ sec.16, T.28 N, R.87 W., Hydrologic Unit 10180006.
Owner: Pete Creek Production System.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 812 ft below land surface.

DATUM.--Elevation of land surface is 6,000 ft above sea level, from topographic map. Measuring point: top of casing, 1.95 ft above land surface.

REMARKS.--A twenty-day pumping test was conducted in September and October 1981.

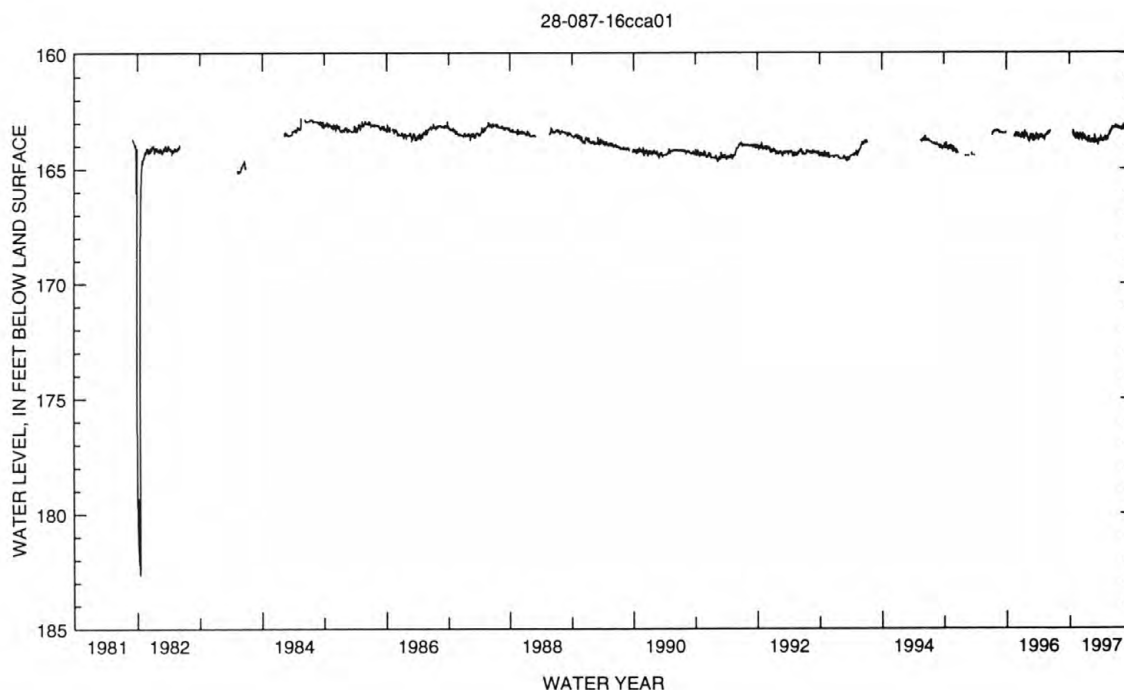
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 162.80 ft below land surface, May 16, 1984; lowest, 182.66 ft below land surface, Oct. 16, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	163.52	163.47	163.76	163.85	163.84	163.62	163.78	163.27	163.24	163.34	163.35
10	---	163.68	163.55	163.70	163.81	163.86	163.77	163.77	163.28	163.16	163.24	163.31
15	---	163.47	163.74	163.69	163.83	163.79	163.77	163.67	163.22	163.26	163.13	163.30
20	---	163.51	163.55	163.73	163.77	163.88	163.71	163.56	163.18	163.24	163.32	163.39
25	163.35	163.71	163.59	163.62	163.79	163.83	163.77	163.40	163.23	163.25	163.31	163.37
EOM	163.53	163.58	163.75	163.76	163.54	163.72	163.67	163.43	163.12	163.30	163.30	163.38
WTR YR 1997	HIGHEST		163.12	JUN 30, JUL 1		LOWEST	163.99	MAR 19				



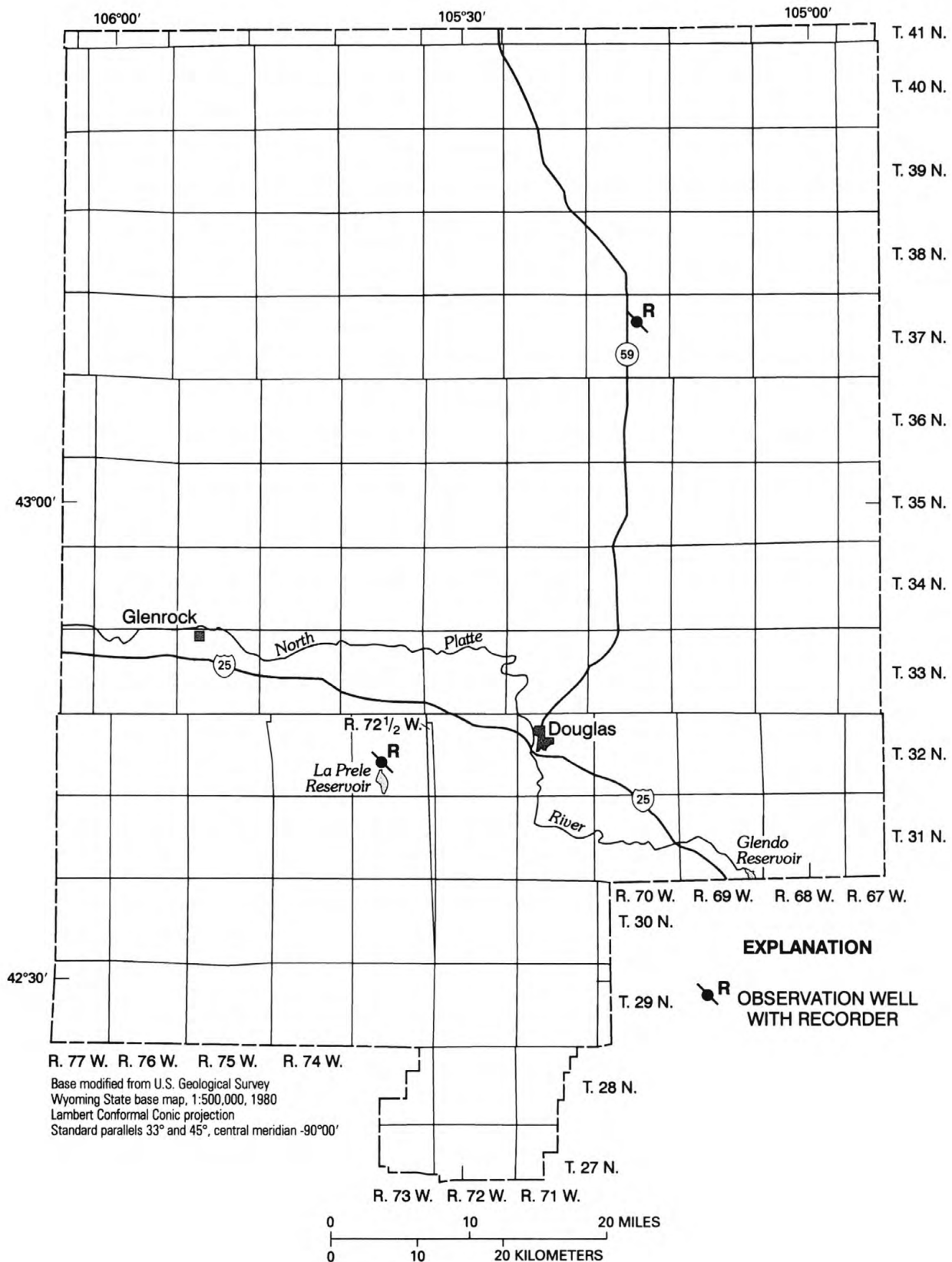


Figure 10. Location of observation wells in Converse County, Wyoming.

CONVERSE COUNTY

424420105364201. Local number, 32-073-16cdb01. Local name, Natural Bridge East.

LOCATION.--Lat 42°44'20", long 105°36'42", in NW¹/₄ SE¹/₄ SW¹/₄ sec.16, T.32 N., R.73 W., Hydrologic Unit 10180007.
Owner: State of Wyoming.

AQUIFER.--Casper Formation.

WELL CHARACTERISTICS.--Depth of well, 220 ft below land surface.

DATUM.--Elevation of land surface is 5,316.4 ft above sea level, from levels. Measuring point: top of casing, 1.70 ft above land surface.

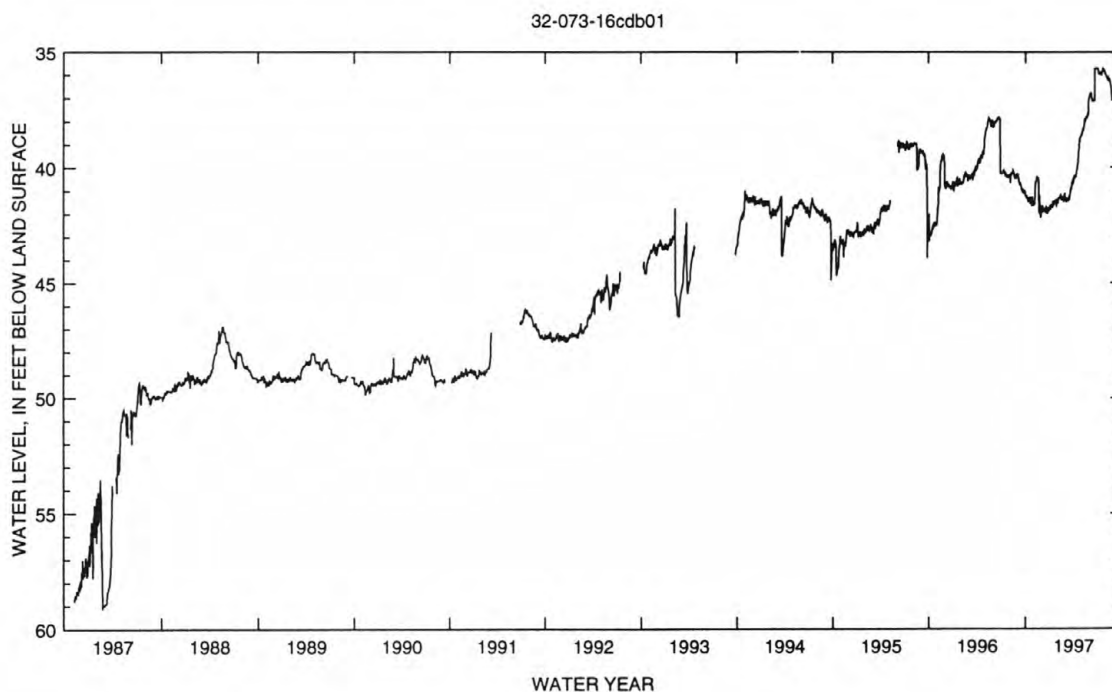
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 35.71 ft below land surface, June 19-23, 1997; lowest, 59.12 ft below land surface, Feb. 21, 1987.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	41.22	41.55	41.66	41.81	41.33	41.51	40.41	38.43	36.81	35.95	36.19	37.17
10	41.29	40.60	41.74	41.64	41.27	41.43	40.41	38.24	37.15	35.90	36.25	37.14
15	41.40	40.43	41.80	41.51	41.34	41.26	40.12	38.04	37.12	35.95	36.22	37.06
20	41.35	40.47	41.73	41.44	41.33	41.09	39.37	37.80	35.71	35.72	36.63	37.28
25	41.34	41.21	41.82	41.42	41.24	40.98	38.87	37.67	35.72	35.84	37.02	37.27
EOM	41.56	42.14	41.81	41.43	41.18	40.56	38.65	36.89	35.72	36.02	37.05	37.41
WTR YR 1997	HIGHEST	35.71	JUN 19-23	LOWEST	42.19	NOV 29						



CONVERSE COUNTY

431140105151901. Local number, 37-070-10cbb01. Local name, Bill #6.

LOCATION.--Lat 43°11'40", long 105°15'19", in NW¹/₄ NW¹/₄ SW¹/₄ sec.10, T.37 N., R.70 W., Hydrologic Unit 10120105.
Owner: Converse County.

AQUIFER.--Wasatch Formation.

WELL CHARACTERISTICS.--Depth of well, 268 ft below land surface.

DATUM.--Elevation of land surface is 4,720 ft above sea level, from topographic map. Measuring point: top of casing, 0.40 ft above land surface.

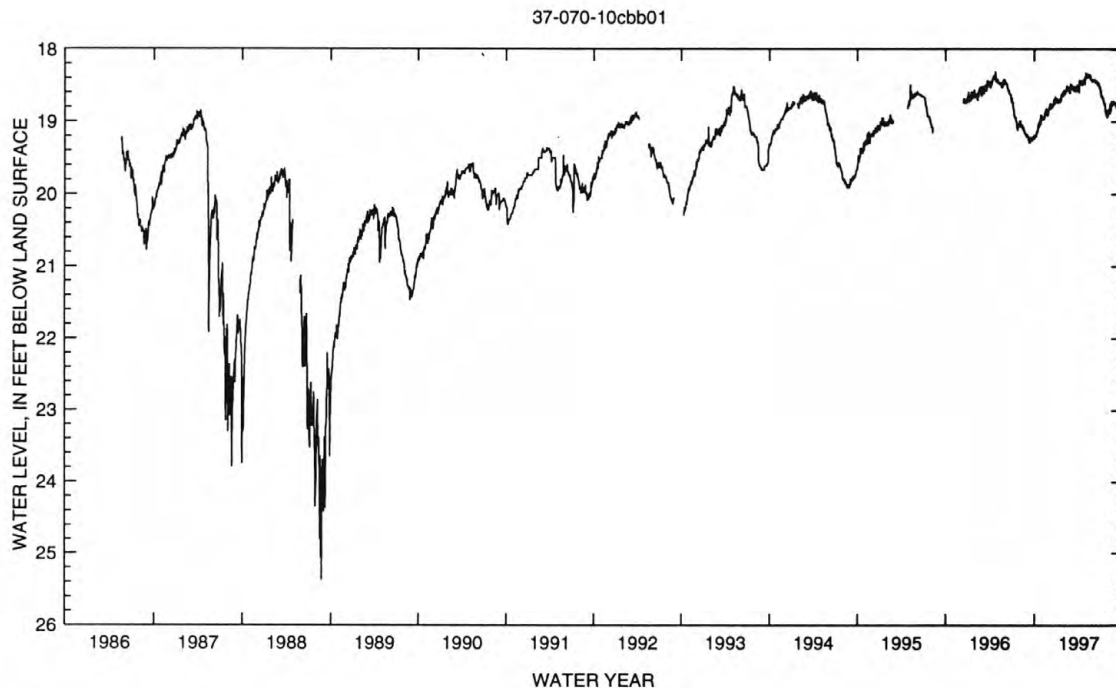
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

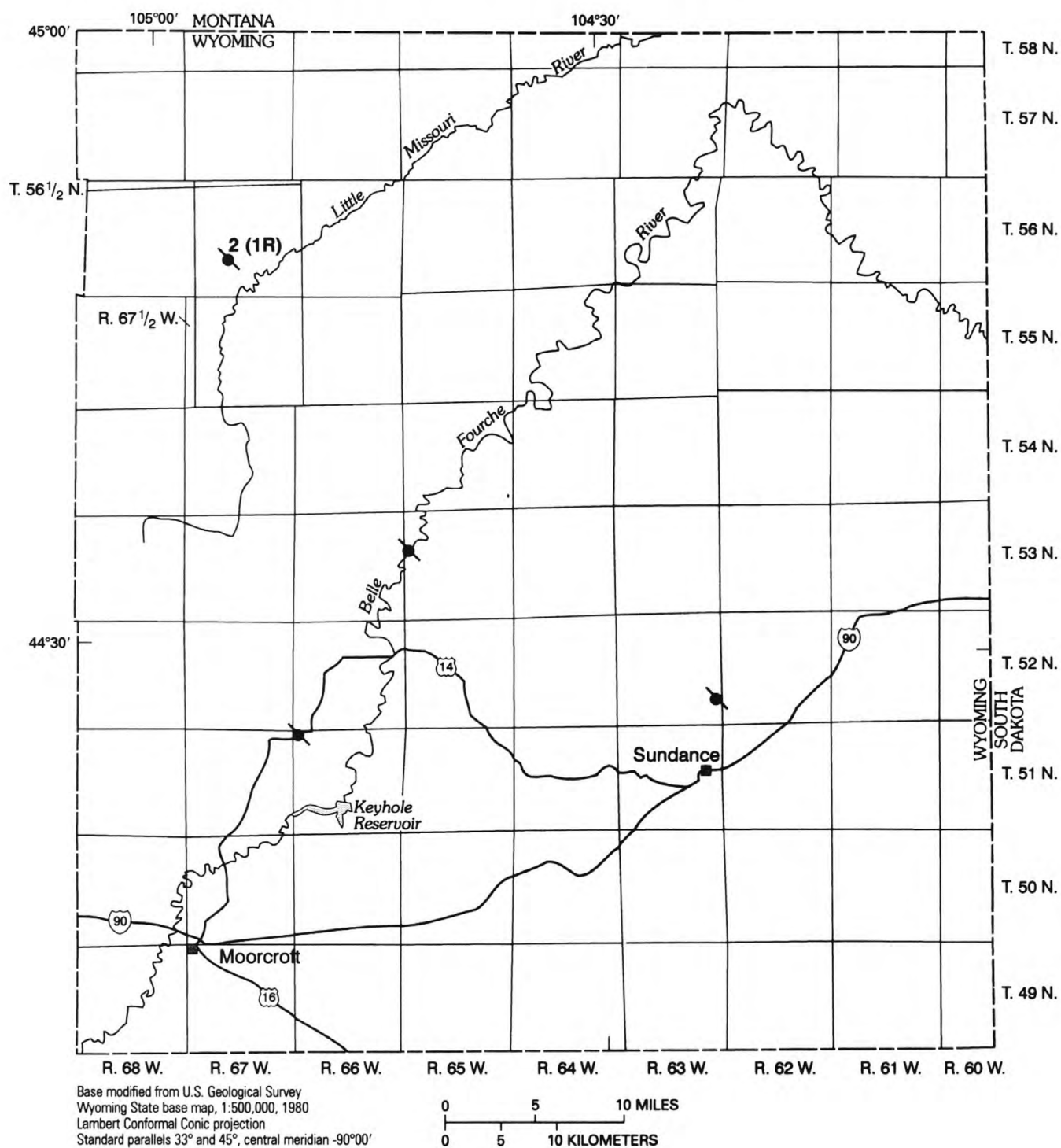
PERIOD OF RECORD.--1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 18.31 ft below land surface, Apr. 24, 1996; lowest, 25.38 ft below land surface, Aug. 31, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.19	18.94	18.75	18.72	18.60	18.55	18.42	18.37	18.42	18.66	18.89	18.75
10	19.17	18.95	18.76	18.72	18.56	18.51	18.48	---	18.47	18.68	18.86	18.74
15	19.11	18.87	18.77	18.69	18.56	18.54	18.48	18.38	18.45	18.75	18.72	18.74
20	19.02	18.83	18.70	18.64	18.53	18.54	18.43	18.38	18.47	18.88	18.77	18.81
25	18.98	18.91	18.75	18.65	18.53	18.58	18.48	18.42	18.53	18.92	18.74	18.77
EOM	18.97	18.84	18.71	18.58	18.48	18.51	18.37	18.44	18.58	18.84	18.77	18.75
WTR YR 1997	HIGHEST		18.32	MAY 1	LOWEST	19.24	OCT 2					





EXPLANATION



2 OBSERVATION WELL--
 Number near well
 is number of wells
 at that location



R OBSERVATION WELL
 WITH RECORDER

Figure 11. Location of observation wells in Crook County, Wyoming.

CROOK COUNTY

442540104493501. Local number, 51-066-06dcd01. Local name, Gillette Madison M-8.

LOCATION.--44°25'40", long 104° 49'35", in SE¹/₄ SW¹/₄ SE¹/₄ sec. 6, T.51 N., R.66 W., Hydrologic Unit 10120201.
Owner: City of Gillette.

AQUIFER.--Madison Limestone.

WELL CHARACTERISTICS.--Depth of well, 3,000 ft below land surface.

DATUM.--Elevation of land surface is 4,237 ft above sea level, from topographic map. Measuring point: top of casing, 1.40 ft above land surface.

REMARKS.--Well originally was used for water level observations. It was converted to a production well in 1986.

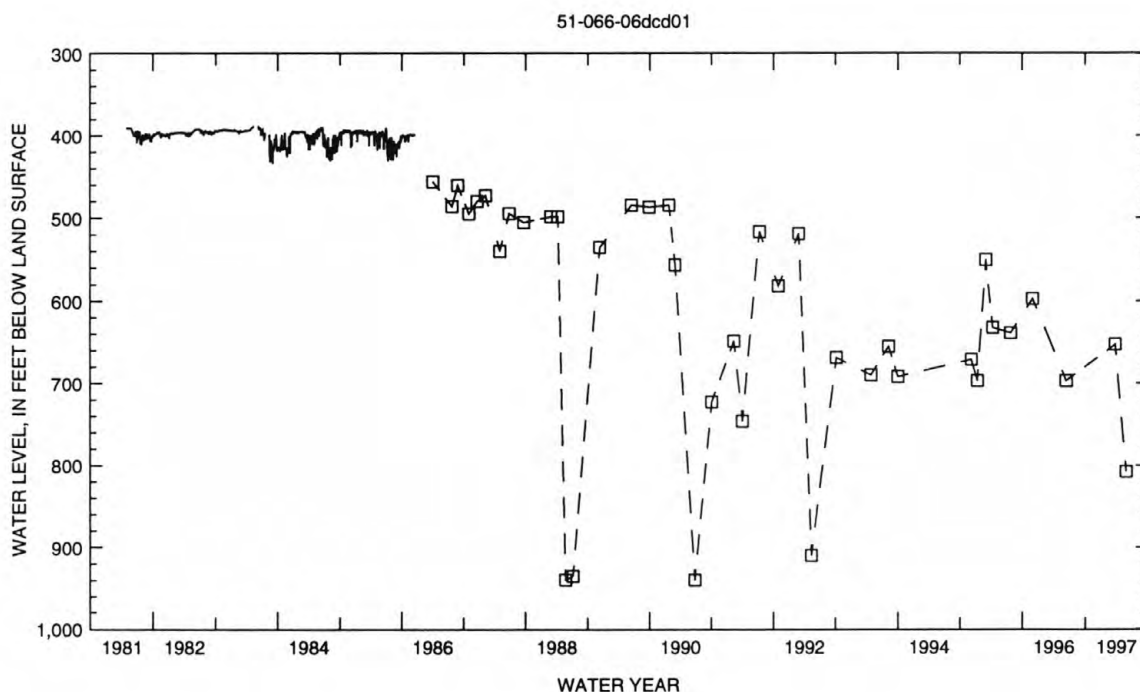
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1981 to September 1997, discontinued. Data is no longer collected as part of the U.S. Geological Survey cooperative program. The well may still exist and additional data may be available at other sources.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 388.66 ft below land surface, May 14, 1983; lowest, 939.60 ft below land surface, May 25, 1988, June 28, 1990.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 26	652.71	MAY 29	807.48



GROUND-WATER LEVELS

CROOK COUNTY

442739104214601. Local number, 52-063-25dcd01. Local name, Cole #3A.

LOCATION.--Lat 44°27'39", long 104°21'46", in SE¹/₄ SW¹/₄ SE¹/₄ sec. 25, T.52 N., R.63 W., Hydrologic Unit 10120203.
Owner: City of Sundance.

AQUIFER.--Madison Limestone.

WELL CHARACTERISTICS.--Depth of well, 1,120 ft below land surface.

DATUM.--Elevation of land surface is 4,740 ft above sea level, from topographic map. Measuring point: top of casing, 2.0 ft above land surface.

REMARKS.--Data reflect static and pumping water levels.

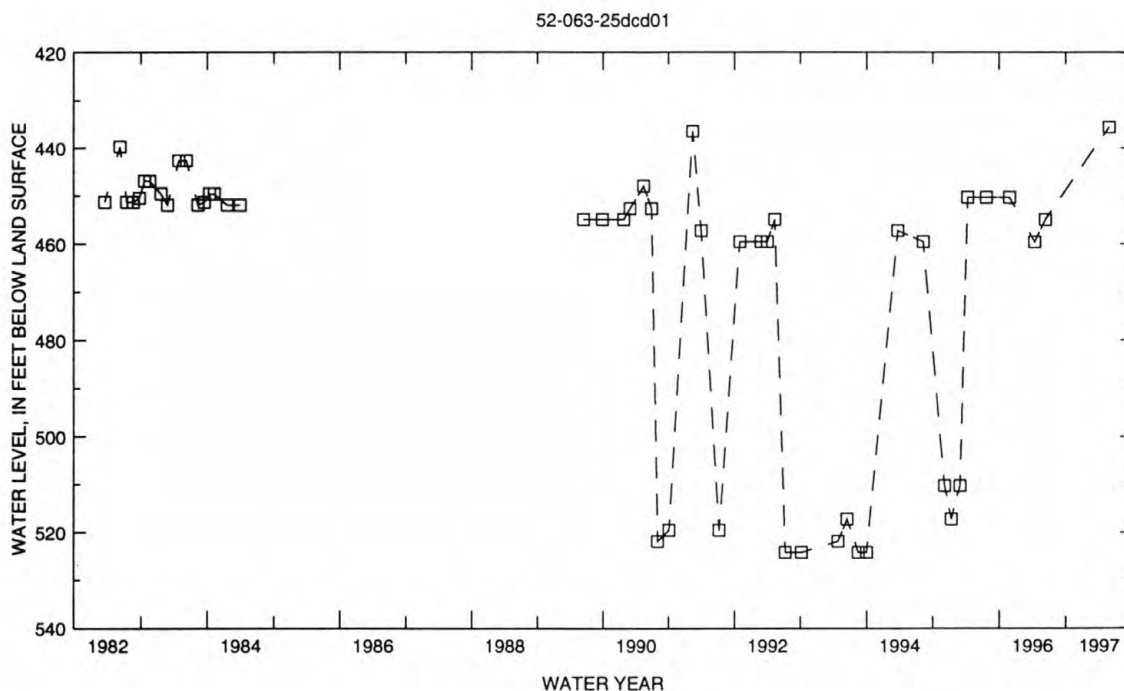
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1982 to 1984, 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 435.50 ft below land surface, May 28, 1997; lowest, 524.19 ft below land surface, July 10, Oct. 7, 1992, Aug. 18, Oct. 1, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL
MAY 28	435.50



CROOK COUNTY

443453104425602. Local number, 53-065-18bbd02. Local name, Park Service.

LOCATION.--44°34'53", long 104°42'56", in SE¹/₄ NW¹/₄ NW¹/₄ sec.18, T.53 N., R.65 W., Hydrologic Unit 10120201.
Owner: National Park Service.

AQUIFER.--Madison Limestone. Labeled as Pahasapa Limestone, which is equivalent, in some previous reports.

WELL CHARACTERISTICS.--Depth of well, 1,340 ft below land surface.

DATUM.--Elevation of land surface is 3,865 ft above sea level, from topographic map. Measuring point: top of casing, 2.3 ft above land surface.

REMARKS.--After 1982 some water-level measurements were taken while well was being pumped or recently after the well was pumped.

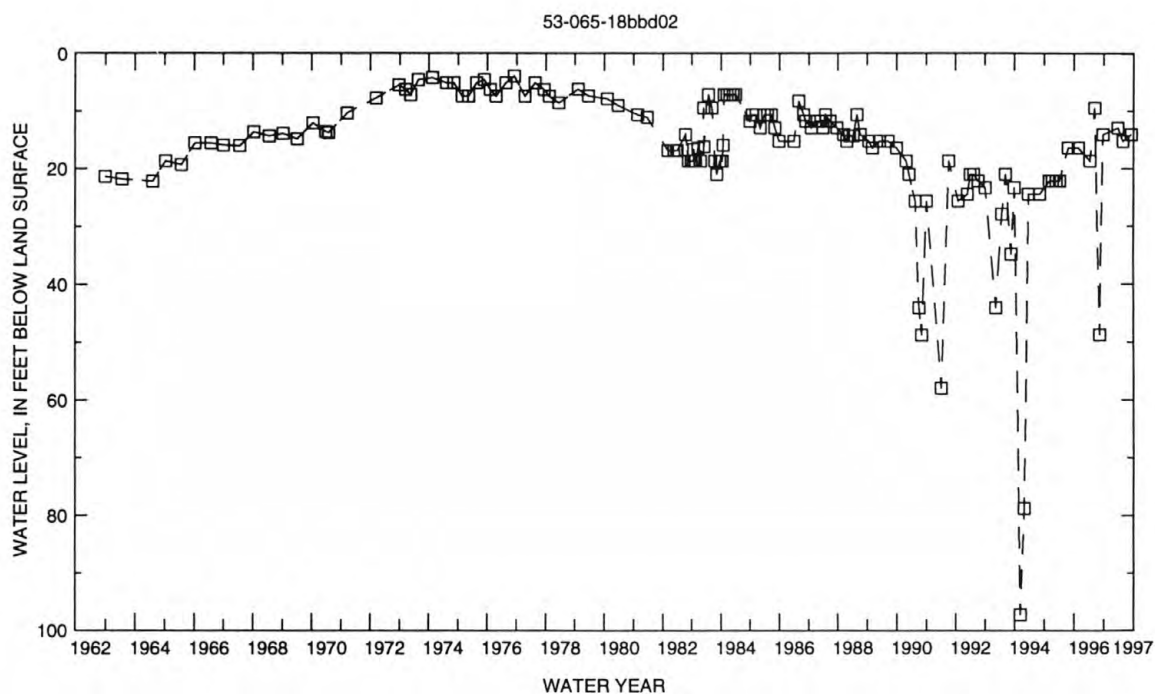
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.90 ft below land surface, Sept. 1, 1976; lowest, 97.24 ft below land surface (well being pumped), Dec. 8, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 26	12.93	MAY 29	15.24	SEP 11	14.08



GROUND-WATER LEVELS

CROOK COUNTY

444854104534501. Local number, 56-067-28aab01. Local name, Cole #41 Madison.

LOCATION.--Lat 44°48'54", long 104°53'45", in NW¹/₄ NE¹/₄ NE¹/₄ sec.28, T.56 N., R.67 W., Hydrologic Unit 10110201.
Owner: Jahnig Ranch.

AQUIFER.--Madison Limestone.

WELL CHARACTERISTICS.--Depth of well, 3,320 ft below land surface.

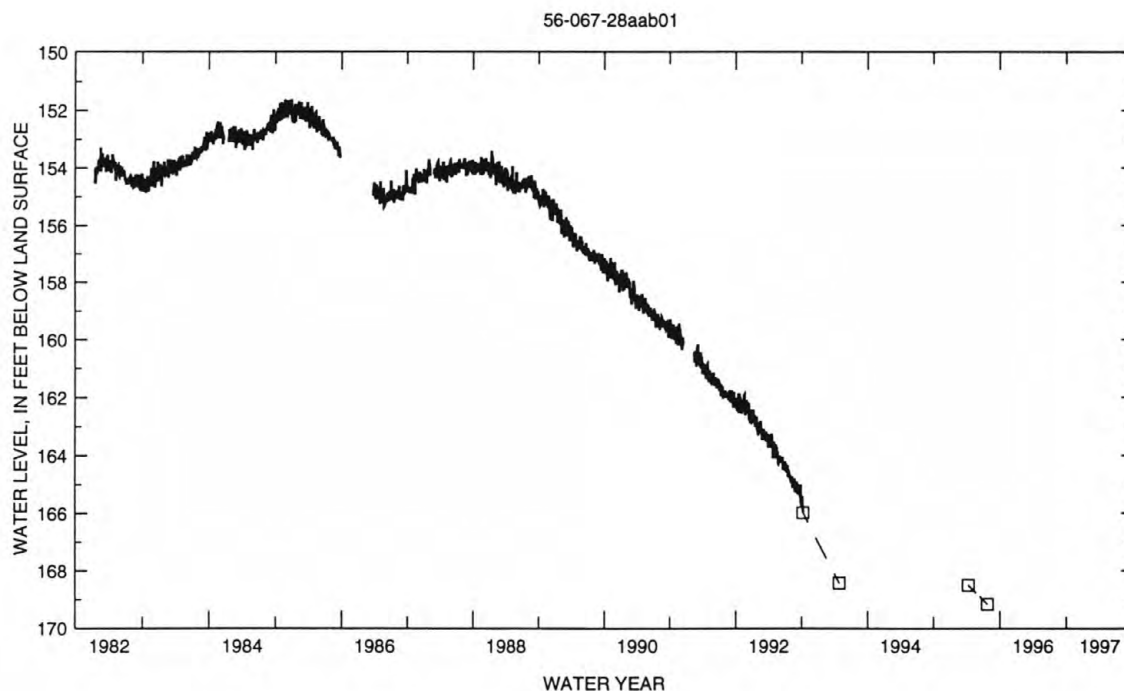
DATUM.--Elevation of land surface is 4,500 ft above sea level, from topographic map. Measuring point: top of casing, 1.20 ft above land surface.

REMARKS.--No data available for 1997 water year.

COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 151.65 ft below land surface, Nov. 24, 1984; lowest, 169.17 ft below land surface, July 25, 1995.



GROUND-WATER LEVELS

37

CROOK COUNTY

444854104534502. Local number, 56-067-28aab02. Local name, Cole #41 Minnelusa.

LOCATION.--Lat 44°48'54", long 104°53'45", in NW¹/₄ NE¹/₄ NE¹/₄ sec.28 T.56 N., R.67 W., Hydrologic Unit 10110201.
Owner: Energy Transportation Systems, Inc.

AQUIFER.--Madison Limestone.

WELL CHARACTERISTICS.--Depth of well, 2,240 ft below land surface.

DATUM.--Elevation of land surface is 4,500 ft above sea level, from topographic map. Measuring point: top of casing, 1.20 ft above land surface.

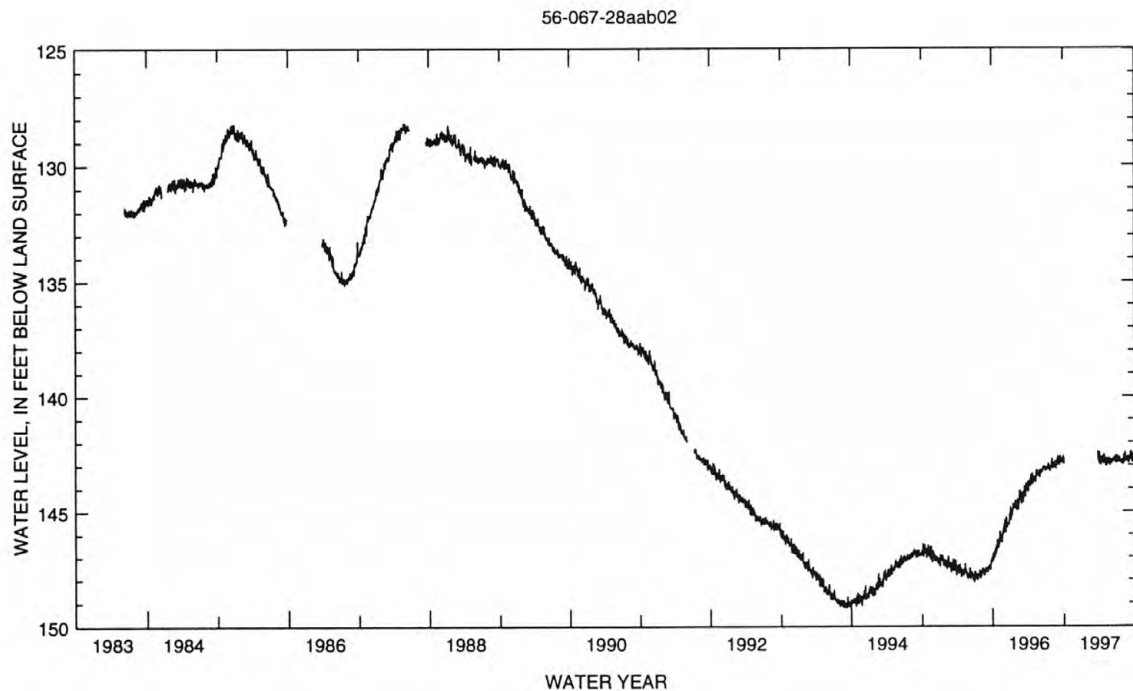
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

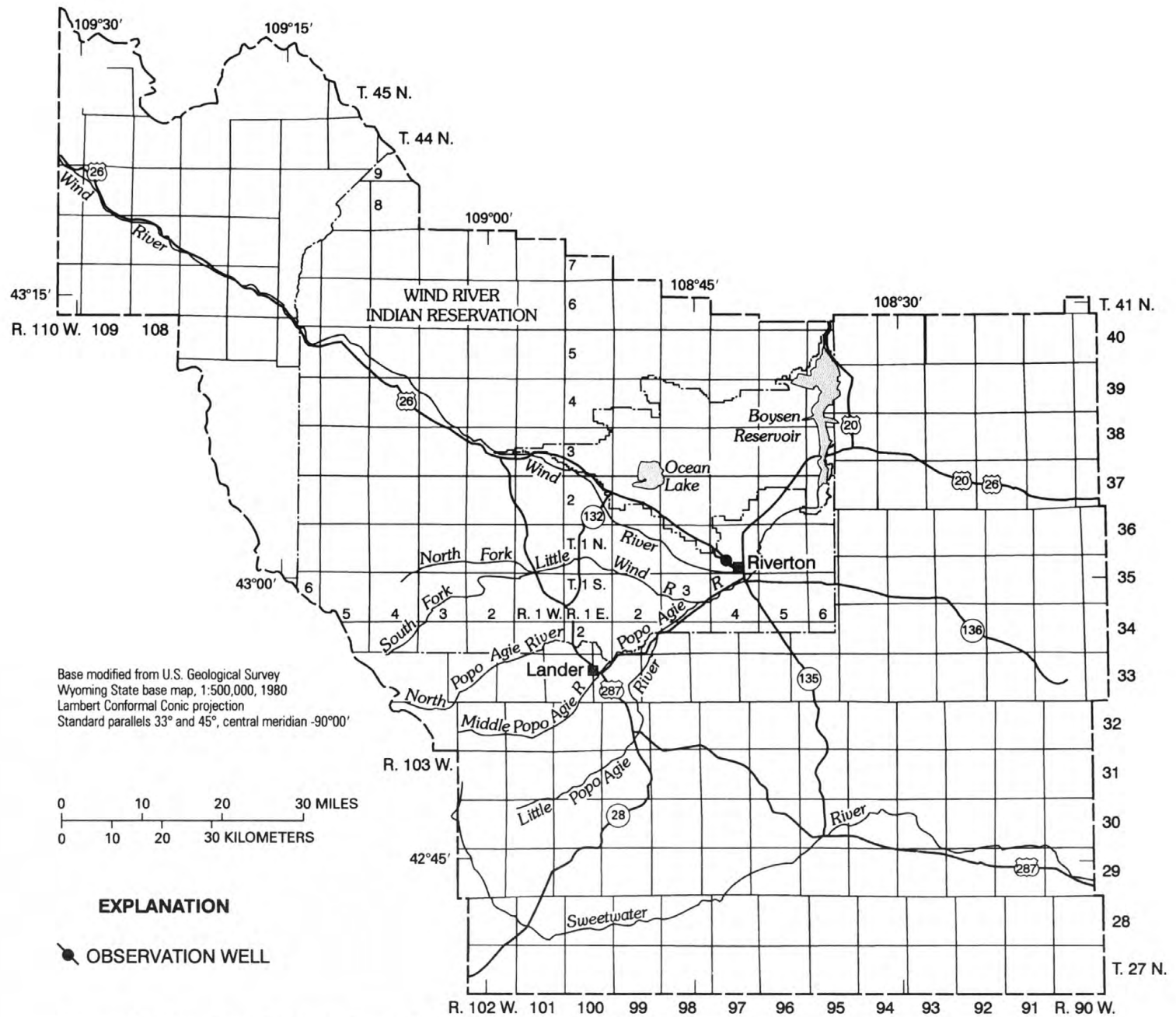
PERIOD OF RECORD.--1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 128.18 ft below land surface, May 5-25, 26, 27, 28, 31, 1987;
lowest, 149.25 ft below land surface, Sept. 28, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	142.75	---	---	---	---	---	142.55	142.94	142.77	142.89	142.94	142.73
10	---	---	---	---	---	---	142.93	142.97	142.84	142.65	142.88	142.63
15	---	---	---	---	---	---	142.83	142.93	142.78	142.83	142.47	142.42
20	---	---	---	---	---	---	142.61	142.86	142.76	142.87	142.82	142.88
25	---	---	---	---	---	---	142.94	142.72	142.93	142.80	142.76	142.63
EOM	---	---	---	---	---	142.55	142.70	142.82	142.65	142.86	142.61	142.69
WTR YR 1997	HIGHEST	142.42	SEP 15	LOWEST	143.05	MAY 11						





FREMONT COUNTY

430205108243201. Local number, 1N-4E-28acc01. Local name, Brentwood.

LOCATION.--Lat 43°02'05", long 108°24'32", in SW¹/₄ SW¹/₄ NE¹/₄ sec.28, T.1 N., R.4 E., Hydrologic Unit 10080001.
Owner: Brentwood Subdivision.

AQUIFER.--Wind River formation.

WELL CHARACTERISTICS.--Depth of well, 440 ft below land surface.

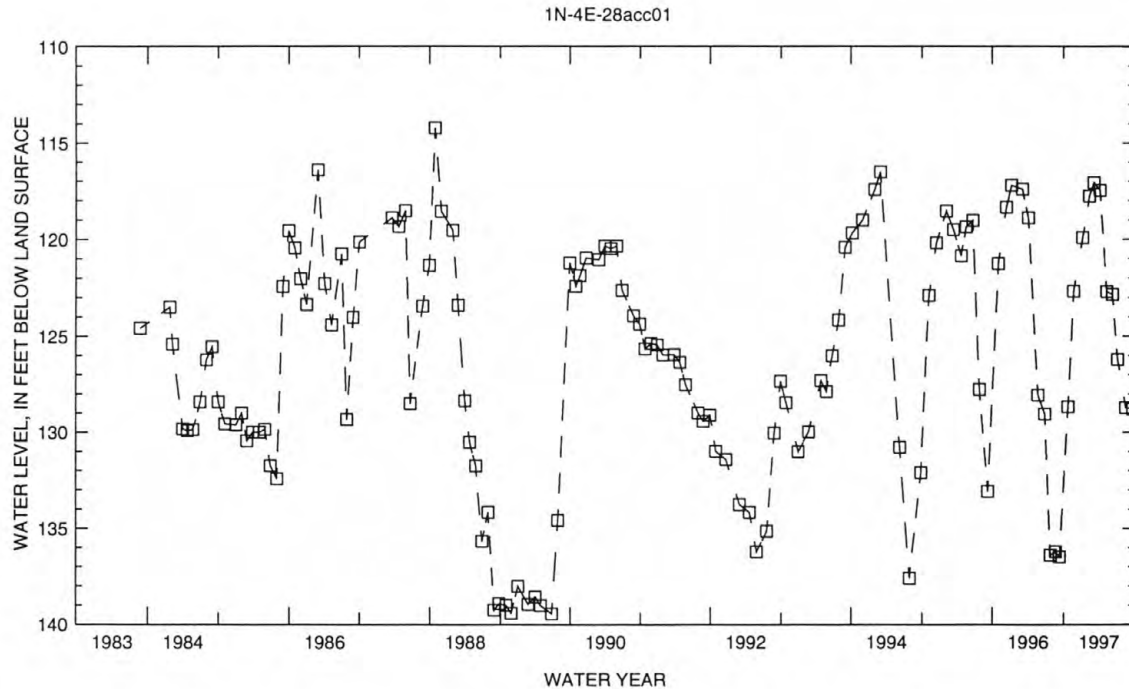
DATUM.--Elevation of land surface is 5,050 ft above sea level, from topographic map. Measuring point: top of casing, 1.0 ft above land surface.

PERIOD OF RECORD.--1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 114.22 ft below land surface, Oct. 30, 1987; lowest, 139.45 ft below land-surface, June 26, 1989.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	128.68	FEB 12	117.77	MAY 12	122.71	AUG 18	128.73
NOV 22	122.69	MAR 07	117.08	JUN 10	122.86	SEP 23	128.79
JAN 08	119.93	APR 07	117.47	JUL 07	126.22		



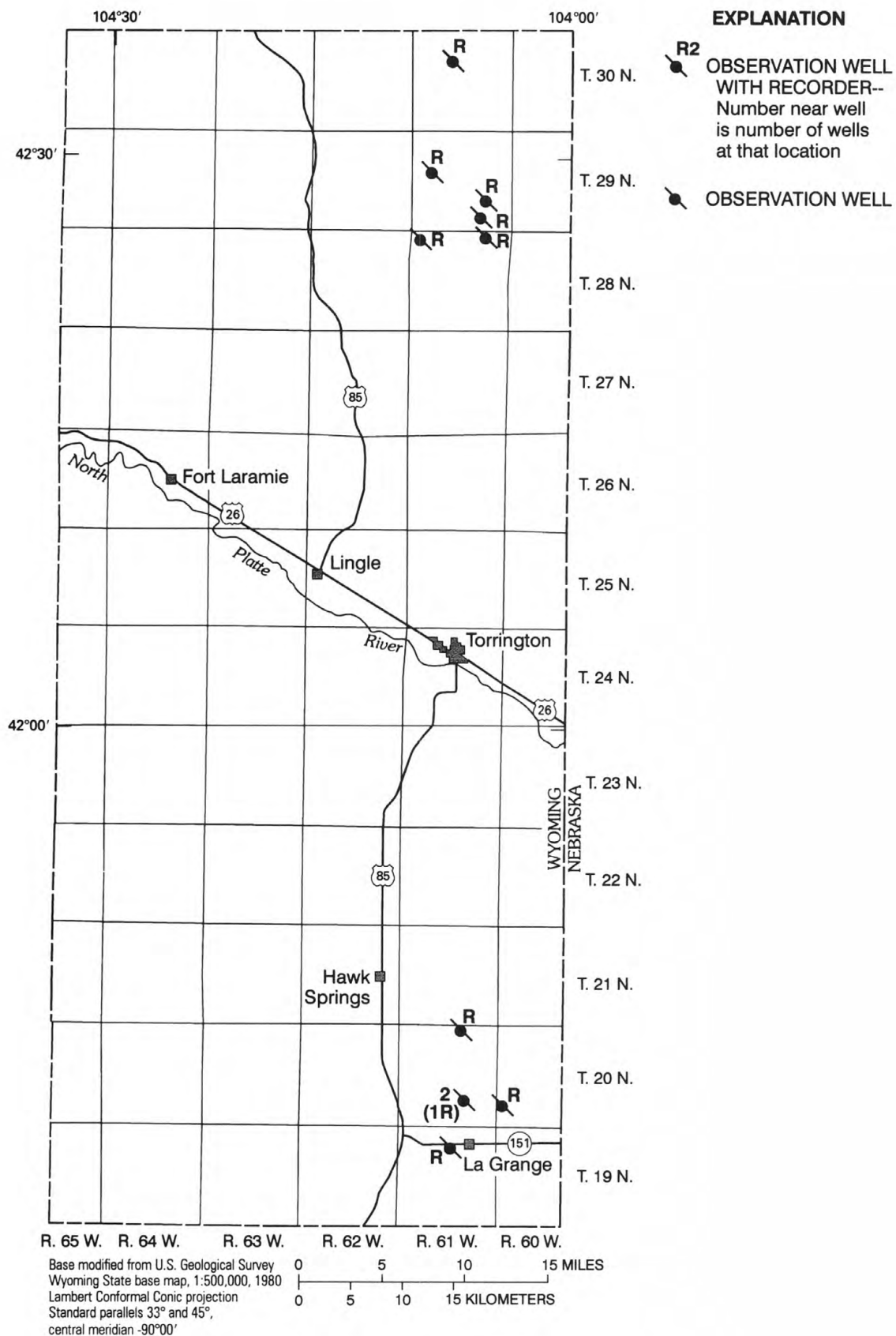


Figure 13. Location of observation wells in Goshen County, Wyoming.

GOSHEN COUNTY

413810104102301. Local number, 19-061-10aab01. Local name, LaGrange #1.

LOCATION.--Lat 41°38'10", long 104°10'23", in NW¹/₄ NE¹/₄ NE¹/₄ sec.10, T.19 N., R.61 W., Hydrologic Unit 10180012.
Owner: Unknown.

AQUIFER.--Brule Formation.

WELL CHARACTERISTICS.--Depth of well, 200 ft below land surface.

DATUM.--Elevation of land surface is 4,570 ft above sea level, from topographic map. Measuring point: top of casing, 1.60 ft above land surface.

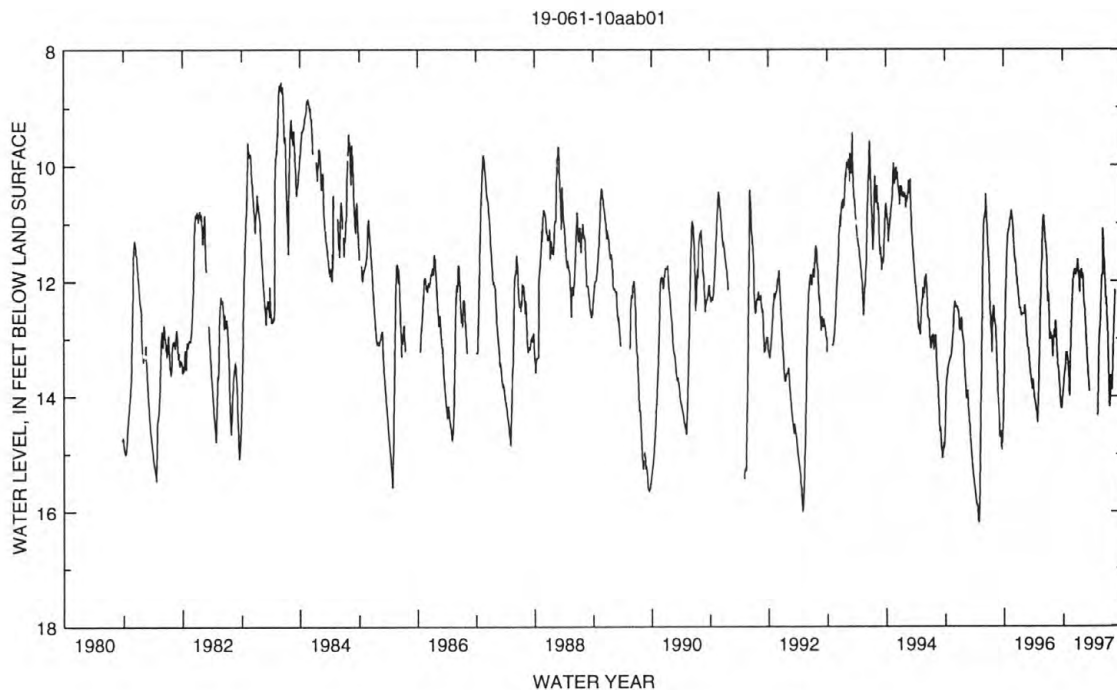
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1980 to September 1997, discontinued. Data no longer collected as part of the U.S. Geological Survey cooperative program. Well may still exist and additional data may be available at other sources.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.56 ft below land surface, June 5, 1983; lowest, 16.20 ft below land surface, Apr. 28, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.78	13.62	11.86	11.93	12.26	13.64	14.57	13.82	11.13	13.19	13.21	---
10	13.59	13.98	11.80	12.13	12.44	13.84	14.22	13.13	11.51	13.84	12.73	---
15	13.47	13.30	11.80	11.90	12.66	14.00	13.94	12.86	11.82	14.13	12.31	---
20	13.24	12.82	11.87	11.82	12.97	14.15	14.08	12.55	12.18	13.80	---	12.09
25	13.24	12.42	11.75	11.88	13.25	14.28	14.29	12.05	12.29	13.79	---	11.85
EOM	13.41	12.05	11.63	11.88	13.40	14.41	14.42	11.89	12.66	13.70	---	12.06
WTR YR 1997	HIGHEST		11.09	JUN 3	LOWEST		14.63	APR 8				



GOSHEN COUNTY

414049104074501. Local number, 20-060-30bbb01. Local name, LaGrange #2.

LOCATION.--Lat 41°40'49", long 104°07'45", in NW¹/₄ NW¹/₄ NW¹/₄ sec.30, T.20 N., R.60 W., Hydrologic Unit 10180012.
Owner: State of Wyoming.

AQUIFER.--Brule Formation.

WELL CHARACTERISTICS.--Depth of well, 70 ft below land surface.

DATUM.--Elevation of land surface is 4,530 ft above sea level, from topographic map. Measuring point: top of casing, 1.00 ft above land surface.

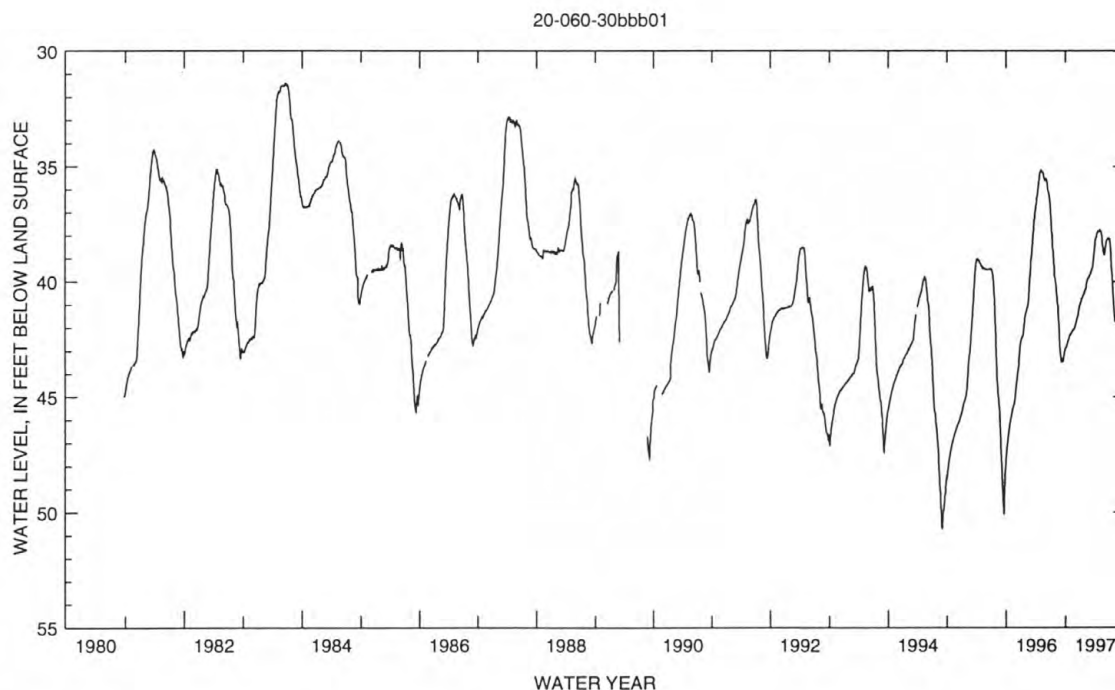
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 31.40 ft below land surface, June 6-18, 19, 20, 21, 1983;
lowest, 50.70 ft below land surface, Sept. 1, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	42.83	42.23	41.77	40.88	40.27	39.67	38.14	37.82	38.48	38.46	41.69	42.19
10	42.76	42.17	41.65	40.73	40.02	39.55	38.07	37.88	38.27	39.25	41.50	42.11
15	42.62	42.10	41.49	40.69	39.89	39.43	37.89	38.14	38.18	39.70	41.24	42.04
20	42.50	42.08	41.33	40.56	39.84	39.25	37.81	38.53	38.11	40.37	41.08	42.41
25	42.38	42.04	41.14	40.50	39.75	38.92	37.80	38.76	38.15	41.02	41.54	42.09
EOM	42.30	41.94	40.98	40.35	39.72	38.43	37.79	38.80	38.13	41.64	42.02	41.92
WTR YR 1997	HIGHEST		37.77	MAY 1	LOWEST		42.90	OCT 1				



GOSHEN COUNTY

414348104101301. Local number, 20-061-03dad01. Local name, LaGrange #3.

LOCATION.--Lat 41°43'48", long 104°10'13", in SE¹/₄ NE¹/₄ SE¹/₄ sec.3, T.20 N., R.61 W., Hydrologic Unit 10180012.
Owner: State of Wyoming.

AQUIFER.--Chadron Formation.

WELL CHARACTERISTICS.--Depth of well, 100 ft below land surface.

DATUM.--Elevation of land surface is 4,470 ft above sea level, from topographic map. Measuring point: top of casing, 1.00 ft above land surface.

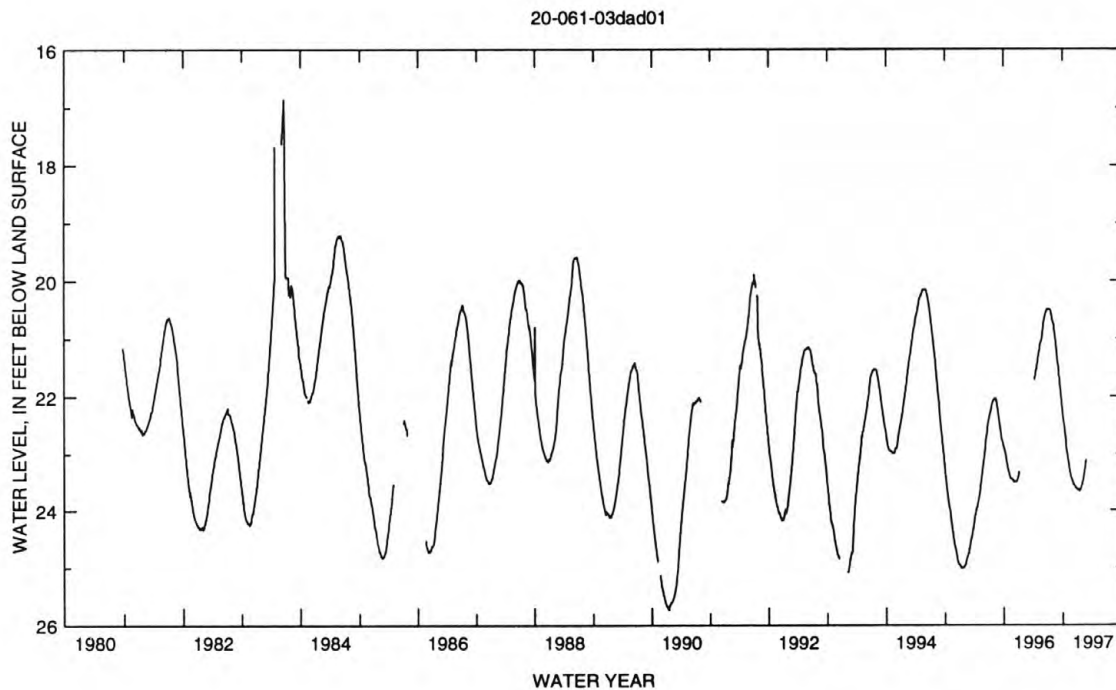
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--September 1980 to February 24 1997, discontinued. Well abandoned.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.85 ft below land surface, June 19, 1983; lowest, 25.74 ft below land surface, Jan. 13-17, 1990.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	22.41	23.15	23.53	23.63	23.44	---	---	---	---	---	---	---
10	22.50	23.25	23.54	23.62	23.34	---	---	---	---	---	---	---
15	22.65	23.33	23.58	23.64	23.25	---	---	---	---	---	---	---
20	22.76	23.40	23.60	23.62	23.14	---	---	---	---	---	---	---
25	22.95	23.44	23.63	23.56	---	---	---	---	---	---	---	---
EOM	23.05	23.47	23.64	23.49	---	---	---	---	---	---	---	---
WTR YR 1997	HIGHEST	22.31	OCT 1	LOWEST	23.66	JAN 11, 12, 13						



GROUND-WATER LEVELS

GOSHEN COUNTY

414128104094502. Local number, 20-061-23bdb02. Local name, Rain Station.

LOCATION.--Lat 41°41'28", long 104°09'45", in NW¹/₄ SE¹/₄ NW¹/₄ sec.23, T.20 N., R.61 W., Hydrologic Unit 10180012.
OWNER: John Meier and Son, Inc.

AQUIFER.--Brule Formation.

WELL CHARACTERISTICS.--Depth of well, 70 ft below land surface.

DATUM.--Elevation of land surface is 4,490 ft above sea level, from topographic map. Measuring point: top of casing, 4.0 ft above land surface.

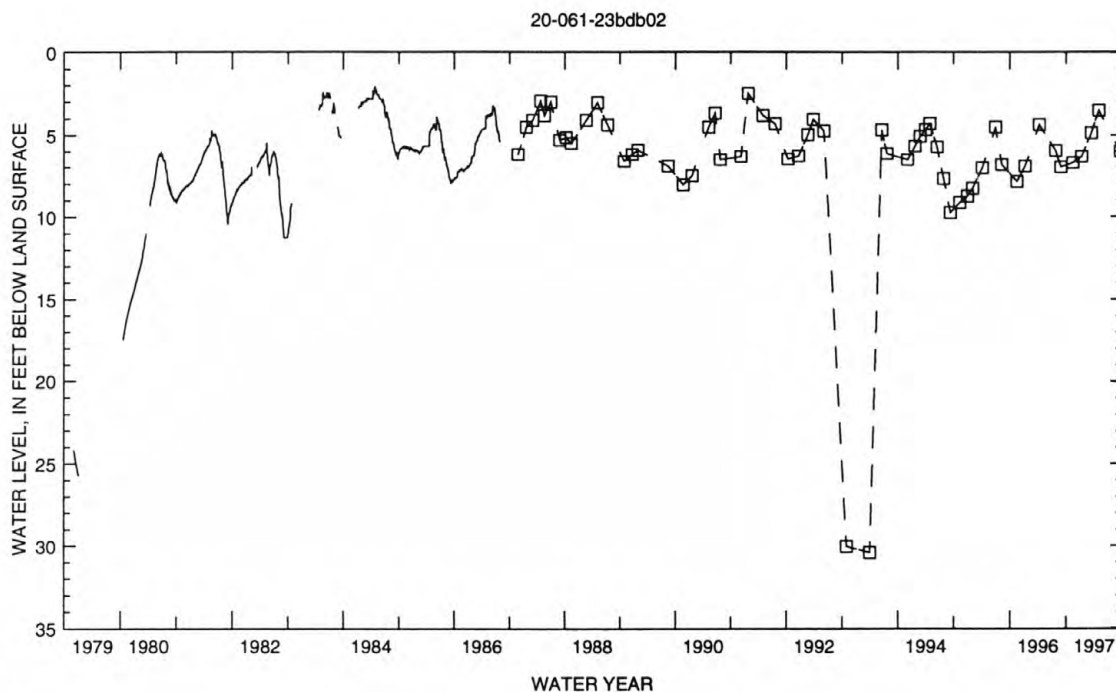
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1978 to September 1997, discontinued. Data is no longer collected as part of the U.S. Geological Survey cooperative program. The well may still exist and additional data may be available at other sources.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.10 ft below land surface, Apr. 26, 1984; lowest, 30.40 ft below land surface, Mar. 30, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 14	6.72	MAR 13	4.88	SEP 19	6.02
JAN 10	6.33	MAY 01	3.52		



GOSHEN COUNTY

414051104100701. Local number, 20-061-23ccc01. Local name, Curt Meier.

LOCATION.--Lat 41°40'51", long 104°10'07", in SW¹/₄ SW¹/₄ SW¹/₄ sec. 23, T.20 N., R.61 W., Hydrologic Unit 10180012.
Owner: Curt Meier.

AQUIFER.--Alluvium.

WELL CHARACTERISTICS.--Depth of well, 82.0 ft below land surface.

DATUM.--Elevation of land surface is 4,506 ft above sea level, from topographic map. Measuring point: top of casing, 1.00 ft above land surface.

COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

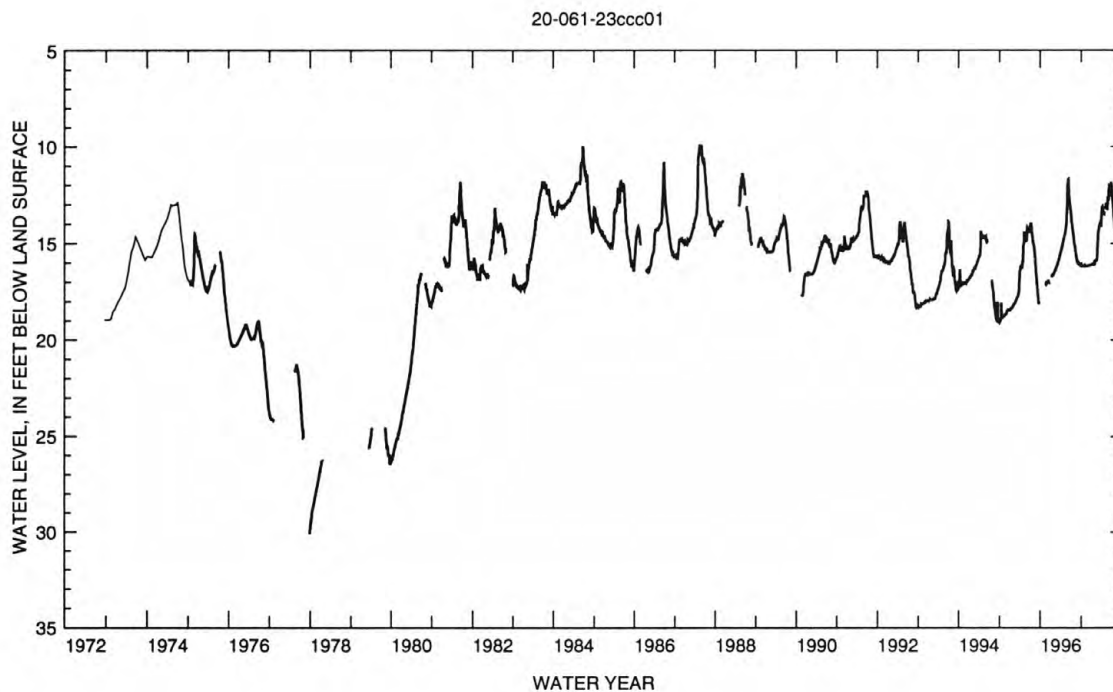
PERIOD OF RECORD.--1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.89 ft below land surface, May 19, 1987; lowest, 32.59 ft below land surface, from hand-measured data, Sept. 18, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.17	16.17	16.14	16.07	15.90	14.28	13.12	13.17	12.25	12.58	14.50	14.32
10	16.17	16.16	16.13	16.01	15.85	14.09	13.33	12.99	12.23	13.03	14.54	14.14
15	16.16	16.16	16.13	16.08	15.85	14.06	13.40	13.10	12.35	13.33	14.09	14.14
20	16.16	16.15	16.10	16.09	15.44	13.93	13.44	13.21	12.50	13.76	13.93	14.18
25	16.16	16.15	16.10	15.97	14.90	14.15	13.36	12.72	11.91	14.07	14.22	13.89
EOM	16.15	16.14	16.09	15.90	14.50	13.50	13.19	12.75	12.14	14.50	14.39	13.75

WTR YR 1997 HIGHEST 11.91 JUN 24, 25 LOWEST 16.17 OCT 2-12, NOV 5, 6



GROUND-WATER LEVELS

GOSHEN COUNTY

422519104095101. Local number, 28-061-02ccd01. Local name, Prairie Center #6.

LOCATION.--Lat 42°25'19", long 104°09'51", in SE¹/₄ SW¹/₄ SW¹/₄ sec. 2, T.28 N., R.61 W., Hydrologic Unit 10180009.
Owner: George Ochsner.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 255 ft below land surface.

DATUM.--Elevation of land surface is 4,795 ft above sea level, from topographic map. Measuring point: top of casing, 1.70 ft above land surface.

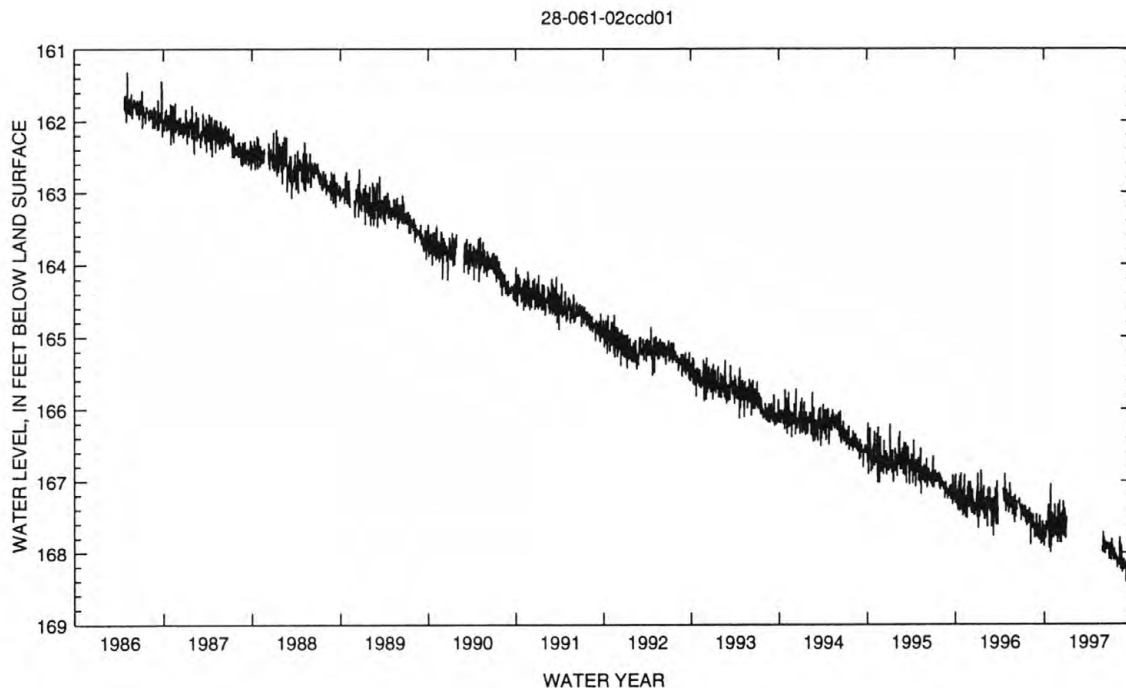
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 161.31 ft below land surface, May 4, 1986; lowest, 168.42 ft below land surface, Sept. 2, 1997.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	167.63	167.61	167.27	---	---	---	---	---	167.78	167.97	168.13	168.12
10	167.57	167.64	167.46	---	---	---	---	---	167.91	167.90	168.24	168.06
15	167.58	167.36	167.45	---	---	---	---	---	167.90	168.07	167.90	168.05
20	167.55	167.58	167.28	---	---	---	---	---	167.87	168.09	168.26	168.36
25	167.48	167.76	167.54	---	---	---	---	---	168.10	168.04	168.10	168.14
EOM	167.80	167.72	167.70	---	---	---	---	167.86	167.88	168.11	168.20	168.32
WTR YR 1997	HIGHEST	167.04	OCT 29	LOWEST	168.42	SEP 2						



GROUND-WATER LEVELS

47

GOSHEN COUNTY

422512104135501. Local number, 28-061-06aba01. Local name, Goshen County #2.

LOCATION.--Lat 42°25'12", long 104°13'55", in NE¹/₄ NW¹/₄ NE¹/₄ sec. 6, T.28 N., R.61 W., Hydrologic Unit 10180009.
Owner: State of Wyoming.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 220 ft below land surface.

DATUM.--Elevation of land surface is 4,765 ft above sea level, from topographic map. Measuring point: top of casing, 1.60 ft above land surface.

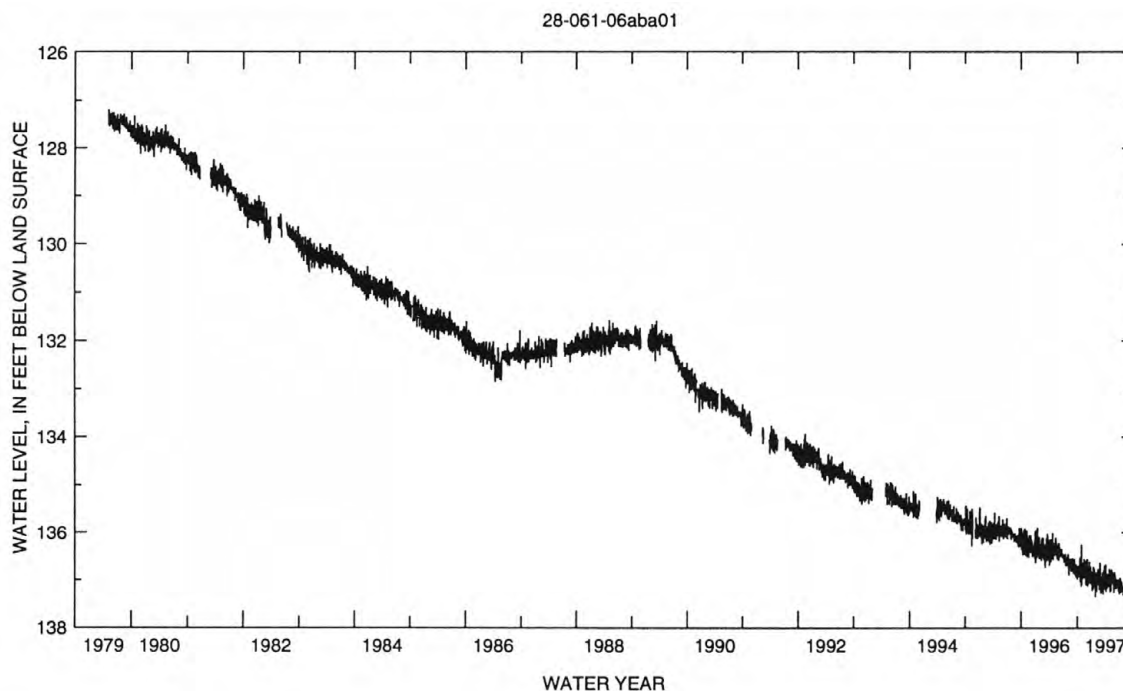
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 127.23 ft below land surface, May 4, 1979; lowest, 137.50 ft below land surface, Sept. 2, 19, 1997.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	136.76	136.80	136.57	137.22	137.10	137.28	136.79	137.10	136.91	137.13	137.25	137.28
10	136.70	136.84	136.74	136.99	136.90	137.02	137.14	136.94	137.04	137.08	137.32	137.19
15	136.72	136.63	136.73	136.80	136.97	136.86	137.16	137.04	137.05	137.18	137.08	137.17
20	136.74	136.82	136.62	136.77	136.92	136.91	136.91	137.02	137.02	137.19	137.35	137.47
25	136.66	136.97	136.83	136.86	136.65	137.17	137.10	136.90	137.24	137.15	137.24	137.29
EOM	136.95	136.95	136.98	136.85	136.81	136.81	137.00	136.95	137.02	137.24	137.30	137.44
WTR YR 1997	HIGHEST	136.26	OCT 29	LOWEST	137.50	SEP 2, 19						



GROUND-WATER LEVELS

GOSHEN COUNTY

422928104121401. Local number, 29-061-17aad01. Local name, Prairie Center #4.

LOCATION.--Lat 42°29'28", long 104°12'14", in SE¹/4 NE¹/4 NE¹/4 Sec. 17, T.29 N., R.61 W., Hydrologic Unit 10180009.
Owner: State of Wyoming.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 220 ft below land surface.

DATUM.--Elevation of land surface is 4,790 ft above sea level, from topographic map. Measuring point: top of casing, 1.90 ft above land surface.

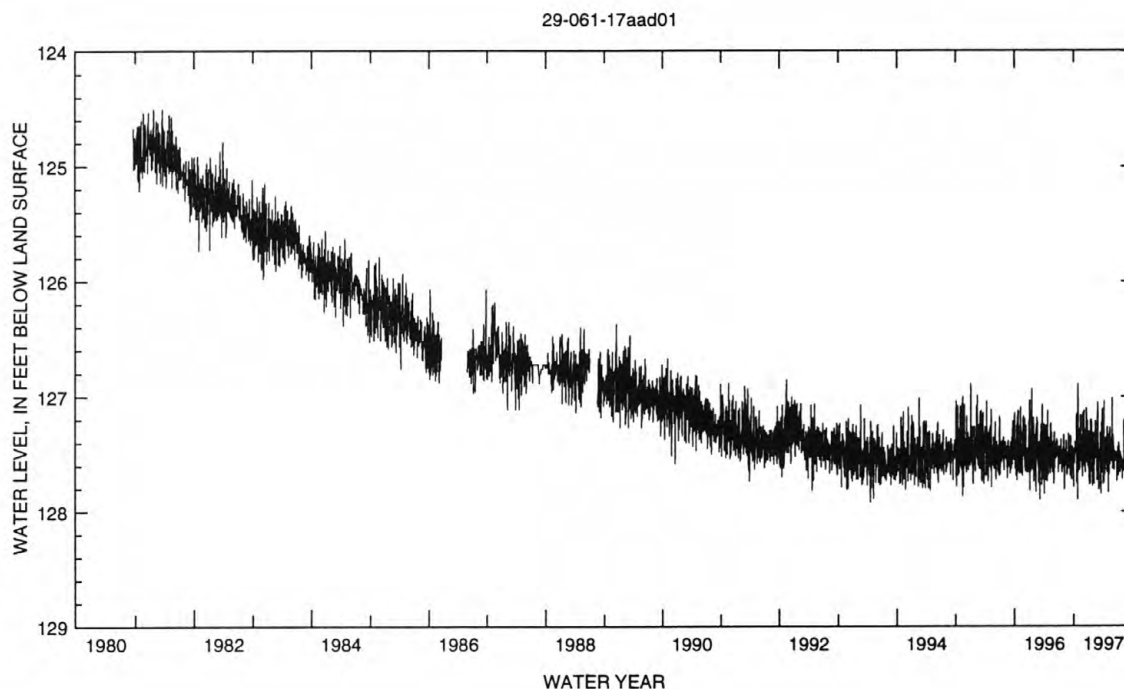
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 124.50 ft below land surface, Jan. 24, Mar. 20, 1981; lowest, 127.92 ft below land surface, Apr. 20, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	127.46	127.43	127.12	127.77	127.63	127.81	127.12	127.65	127.40	127.60	127.62	127.49
10	127.42	127.48	127.28	127.44	127.38	127.48	127.59	127.48	127.56	127.46	127.65	127.40
15	127.40	127.16	127.33	127.21	127.46	127.35	127.55	127.59	127.52	127.62	127.31	127.38
20	127.30	127.37	127.10	127.24	127.37	127.38	127.38	127.55	127.48	127.62	127.68	127.76
25	127.27	127.61	127.40	127.37	127.13	127.66	127.66	127.40	127.74	127.54	127.47	127.45
EOM	127.63	127.44	127.54	127.31	127.13	127.28	127.53	127.49	127.47	127.59	127.55	127.58
WTR YR 1997	HIGHEST	126.89	OCT 29	LOWEST	127.90	OCT 27						



GOSHEN COUNTY

422849104090801. Local number, 29-061-23abb01. Local name, Goshen County #1.

LOCATION.--Lat 42°28'49", long 104°09'08", in NW¹/₄ NW¹/₄ NE¹/₄ sec. 23, T.29 N., R.61 W., Hydrologic Unit 10180009.
Owner: State of Wyoming.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 300 ft below land surface.

DATUM.--Elevation of land surface is 4,870 ft above sea level, from topographic map. Measuring point: top of casing, 1.00 ft above land surface.

REMARKS.--Well was slug tested by instantaneous recharge on June 12, 1987 to test well's connection with aquifer. Water level did not recover properly, so it was flushed in March 1991.

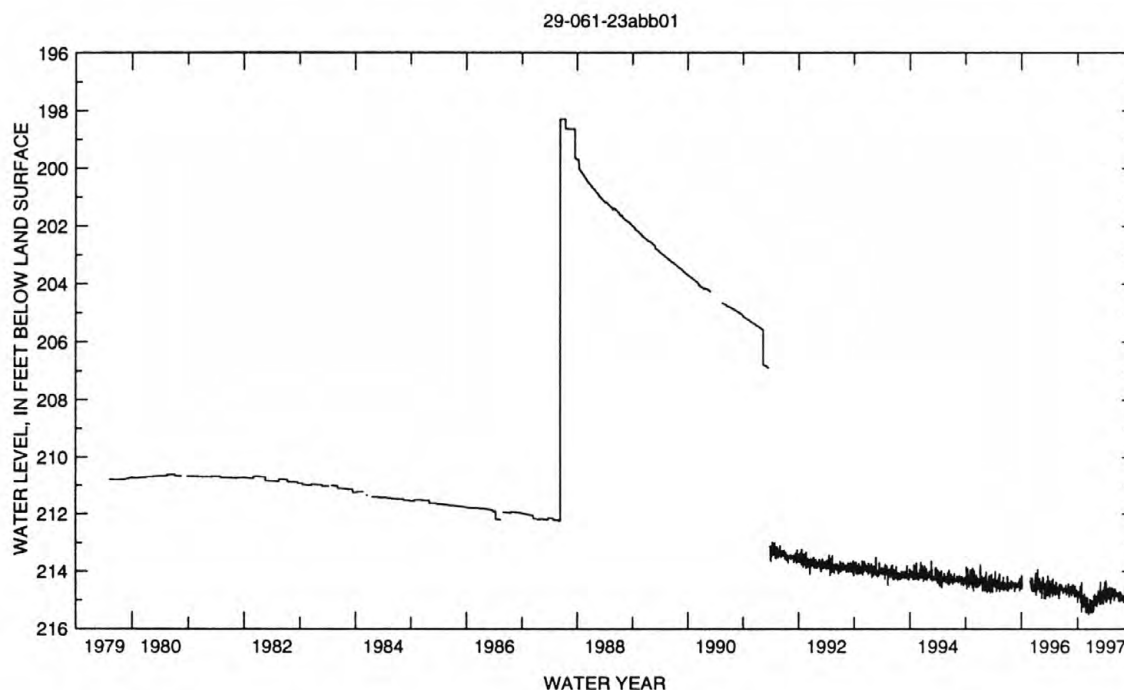
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 198.29 ft below land surface, affected by slug test; lowest, 215.51 ft below land surface, Dec. 12, 1996.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	214.76	214.94	214.91	215.46	215.18	215.14	214.34	214.99	214.66	214.95	215.03	214.97
10	214.77	215.10	215.13	215.09	214.88	214.86	214.91	214.81	214.84	214.78	214.95	214.90
15	214.75	214.79	215.30	214.86	214.89	214.70	214.85	214.88	214.80	214.98	214.71	214.87
20	214.63	214.99	214.96	214.85	214.77	214.74	214.64	214.84	214.76	214.96	215.04	215.27
25	214.65	215.38	215.21	214.97	214.55	214.94	214.96	214.67	215.05	214.88	214.95	214.97
BOM	215.18	215.14	215.35	214.86	214.40	214.55	214.77	214.77	214.76	214.95	214.97	215.01
WTR YR 1997	HIGHEST		214.34	APR 4, 5	LOWEST		215.51	DEC 12				



GROUND-WATER LEVELS

GOSHEN COUNTY

422730104094801. Local number, 29-061-26cbb01. Local name, Prairie Center #3.

LOCATION.--Lat 42°27'30", long 104°09'48", in NW¹/₄ NW¹/₄ SW¹/₄ sec. 26, T.29 N., R.61 W., Hydrologic Unit 10180009.
OWNER: State of Wyoming.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 200 ft below land surface.

DATUM.--Elevation of land surface is 4,770 ft above sea level, from topographic map. Measuring point: top of casing, 1.50 ft above land surface.

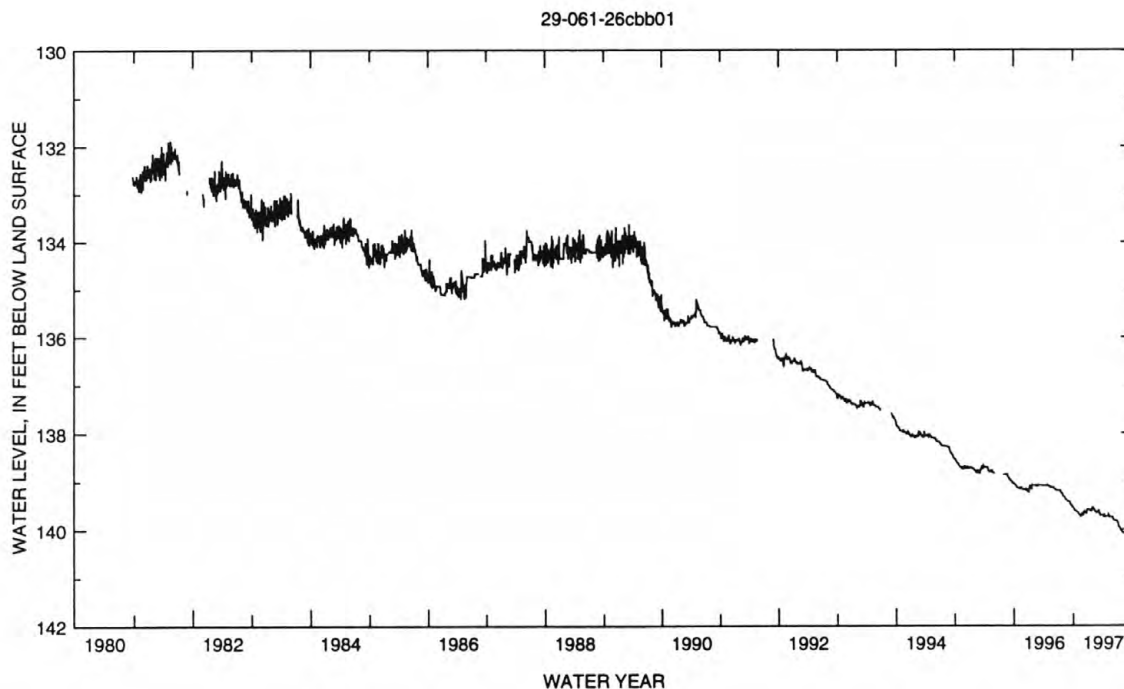
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 131.89 ft below land surface, May 15, 16, 1981; lowest, 140.23 ft below land surface, Sept. 29, 30, 1997.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	139.58	139.69	139.65	139.58	139.58	139.60	139.74	139.70	139.81	139.93	140.08	140.12
10	139.61	139.71	139.63	139.60	139.63	139.66	139.70	139.74	139.81	139.96	140.08	140.11
15	139.61	139.73	139.64	139.61	139.63	139.71	139.73	139.75	139.82	139.99	140.09	140.11
20	139.63	139.73	139.67	139.62	139.63	139.71	139.73	139.74	139.82	140.02	140.09	140.12
25	139.64	139.68	139.59	139.55	139.64	139.71	139.73	139.75	139.83	140.05	140.10	140.12
EOM	139.65	139.71	139.58	139.57	139.65	139.71	139.73	139.75	139.86	140.07	140.10	140.23
WTR YR 1997	HIGHEST		139.54	JAN 27	LOWEST		140.23	SEP 29, 30				



GROUND-WATER LEVELS

51

GOSHEN COUNTY

423549104120901. Local number, 30-061-09bbb01. Local name, Prairie Center #5.

LOCATION.--Lat 42°35'49", long 104°12'09", in NW¹/₄ NW¹/₄ NW¹/₄ sec. 9, T.30 N., R.61 W., Hydrologic Unit 10180009.
Owner: State of Wyoming.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 220 ft below land surface.

DATUM.--Elevation of land surface is 4,850 ft above sea level, from topographic map. Measuring point: top of casing, 1.60 ft above land surface.

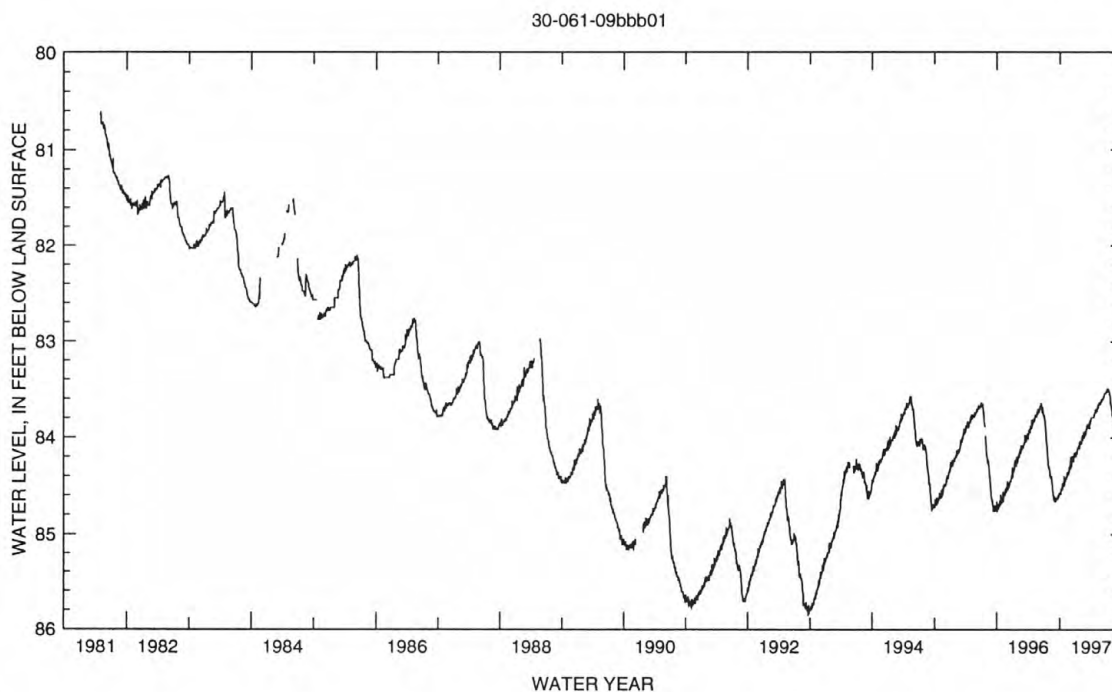
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 80.61 ft below land surface, May 1, 1981; lowest, 85.86 ft below land surface, Sept. 21, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	84.58	84.43	84.20	84.20	84.06	83.96	83.79	83.71	83.60	83.51	83.77	83.99
10	84.53	84.41	84.27	84.15	83.99	83.87	83.79	83.69	83.60	83.49	83.85	84.03
15	84.51	84.37	84.19	84.12	83.99	83.86	83.79	83.68	83.58	83.51	83.85	84.06
20	84.54	84.37	84.20	84.09	83.97	83.86	83.75	83.64	83.54	83.55	83.91	84.11
25	84.48	84.34	84.19	84.05	83.93	83.91	83.74	83.63	83.54	83.64	83.91	84.10
EOM	84.47	84.33	84.17	84.04	83.96	83.81	83.71	83.62	83.52	83.70	83.99	84.08
WTR YR 1997	HIGHEST	83.49	JUL 6-12	LOWEST	84.59	OCT 1						



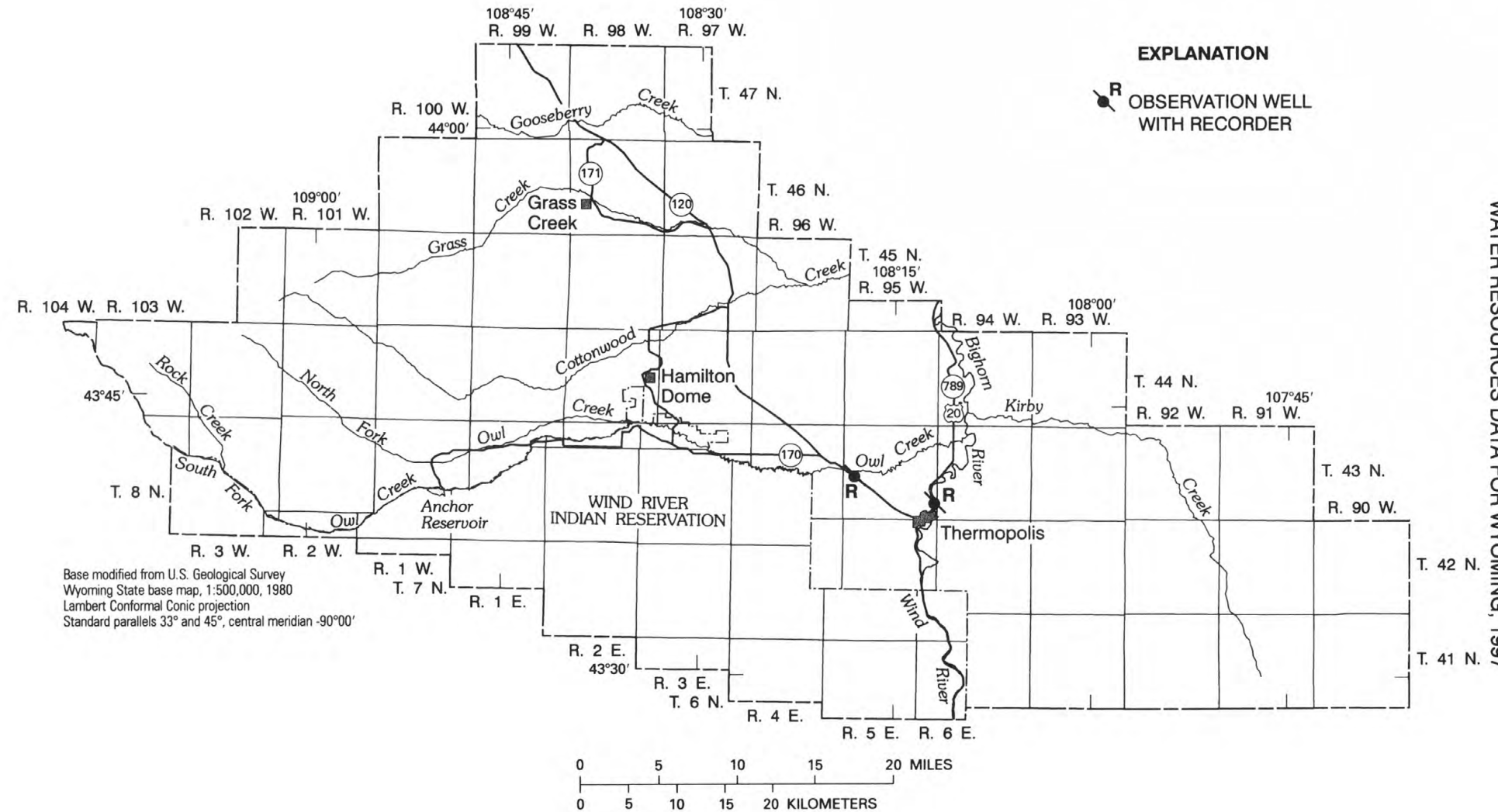


Figure 14. Location of observation wells in Hot Springs County, Wyoming.

HOT SPRINGS COUNTY

434136108183301. Local number, 43-095-18cab01. Local name, Thermopolis GTW-1.

LOCATION.--Lat 43°41'36", long 108°18'33", in NW¹/₄ NE¹/₄ SW¹/₄ sec.18, T.43 N., R.95 W., Hydrologic Unit 10080007.
OWNER: Town of Thermopolis and Bureau of Land Management.

AQUIFER.--Tensleep Sandstone.

WELL CHARACTERISTICS.--Depth of well, 354 ft below land surface.

DATUM.--Elevation of land surface is 4,700 ft above sea level, from topographic map. Measuring point: top of casing, 1.40 ft above land surface.

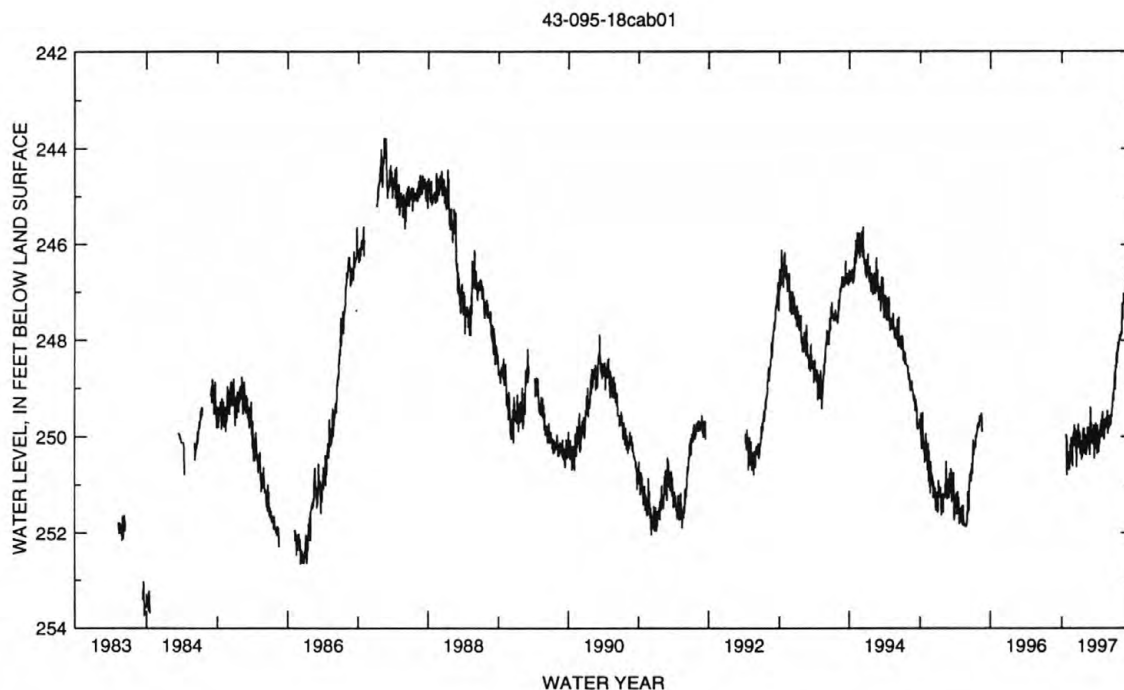
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 243.79 ft below land surface, Feb. 13, 14, 22, 1987, lowest, 253.74 ft below land surface, Sept. 20, 1983.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	250.38	249.75	250.36	250.33	250.15	249.99	249.88	249.56	248.78	247.89	246.80
10	---	250.55	249.83	250.24	250.13	249.99	250.22	249.91	249.72	248.24	247.56	246.54
15	---	250.23	250.28	250.10	250.11	249.81	250.05	249.83	249.57	248.28	247.02	246.39
20	---	250.02	249.89	249.85	250.01	250.01	249.74	249.60	249.27	248.10	247.24	246.78
25	249.95	250.45	250.10	249.93	249.93	250.24	250.00	249.47	249.26	247.89	247.03	246.55
EOM	250.59	250.18	250.13	249.95	249.55	249.76	249.58	249.67	248.66	247.93	246.73	246.60
WTR YR 1997	HIGHEST	246.33	SEP 17, 18	LOWEST	250.80	OCT 27						



GROUND-WATER LEVELS

HOT SPRINGS COUNTY

433933108121901. Local number, 43-095-25cdc01. Local name, Thermopolis GTW-3.

LOCATION.--Lat 43°39'33", long 108°12'19", in SW¹/₄ SE¹/₄ SW¹/₄ sec.25, T.43 N., R.95 W., Hydrologic Unit 10080007.
OWNER: Town of Thermopolis.

AQUIFER.--Phosphoria Formation (formerly labeled Park City Formation).

WELL CHARACTERISTICS.--Depth of well, 228 ft below land surface.

DATUM.--Elevation of land surface is 4,700 ft above sea level, from topographic map. Measuring point: top of casing, 1.60 ft above land surface.

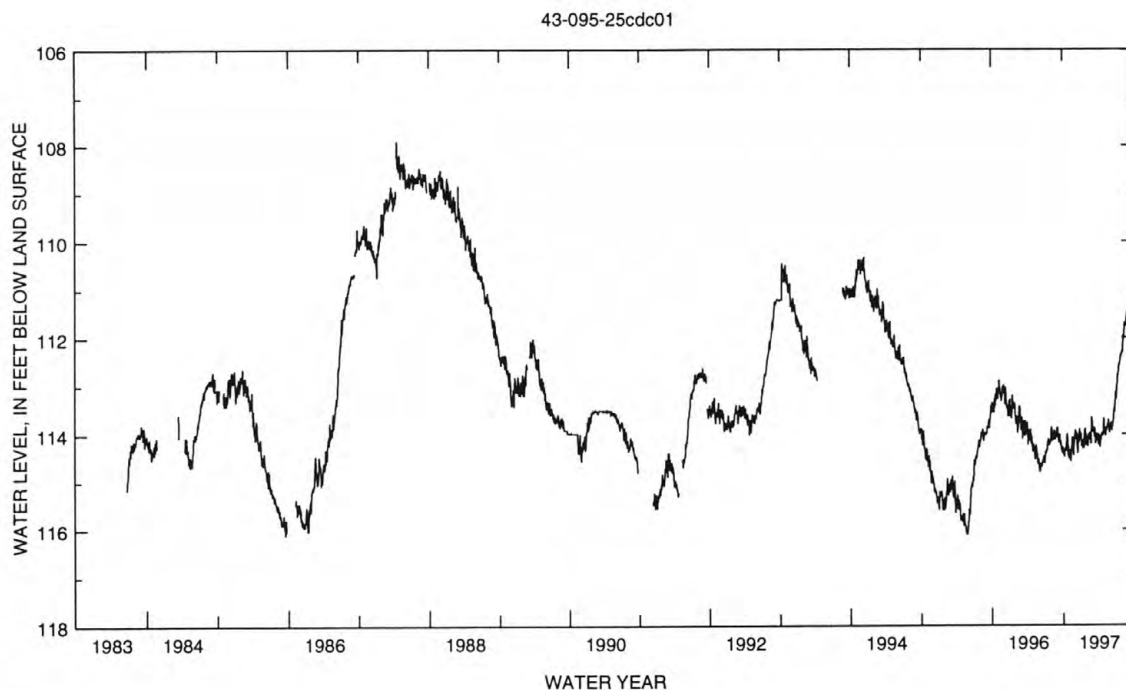
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 107.91 ft below land surface, Apr. 18, 1987; lowest, 116.11 ft below land surface, Sept. 15, 1985.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	114.37	114.34	113.92	114.15	114.24	113.97	114.03	113.91	113.76	113.15	112.31	111.41
10	114.41	114.51	113.97	114.17	114.13	113.97	114.21	114.00	113.89	112.76	112.03	111.20
15	114.30	114.27	114.30	114.16	114.07	113.92	114.07	113.92	113.80	112.71	111.70	111.00
20	114.21	114.07	114.06	114.03	114.03	114.07	113.99	113.78	113.59	112.55	111.76	111.19
25	114.07	114.36	114.13	113.93	114.05	114.14	114.01	113.72	113.54	112.38	111.60	111.09
EOM	114.45	114.15	114.06	114.03	113.70	114.00	113.72	113.87	113.12	112.35	111.41	111.06
WTR YR 1997	HIGHEST		110.91	SEP 17	LOWEST		114.58	NOV 12				



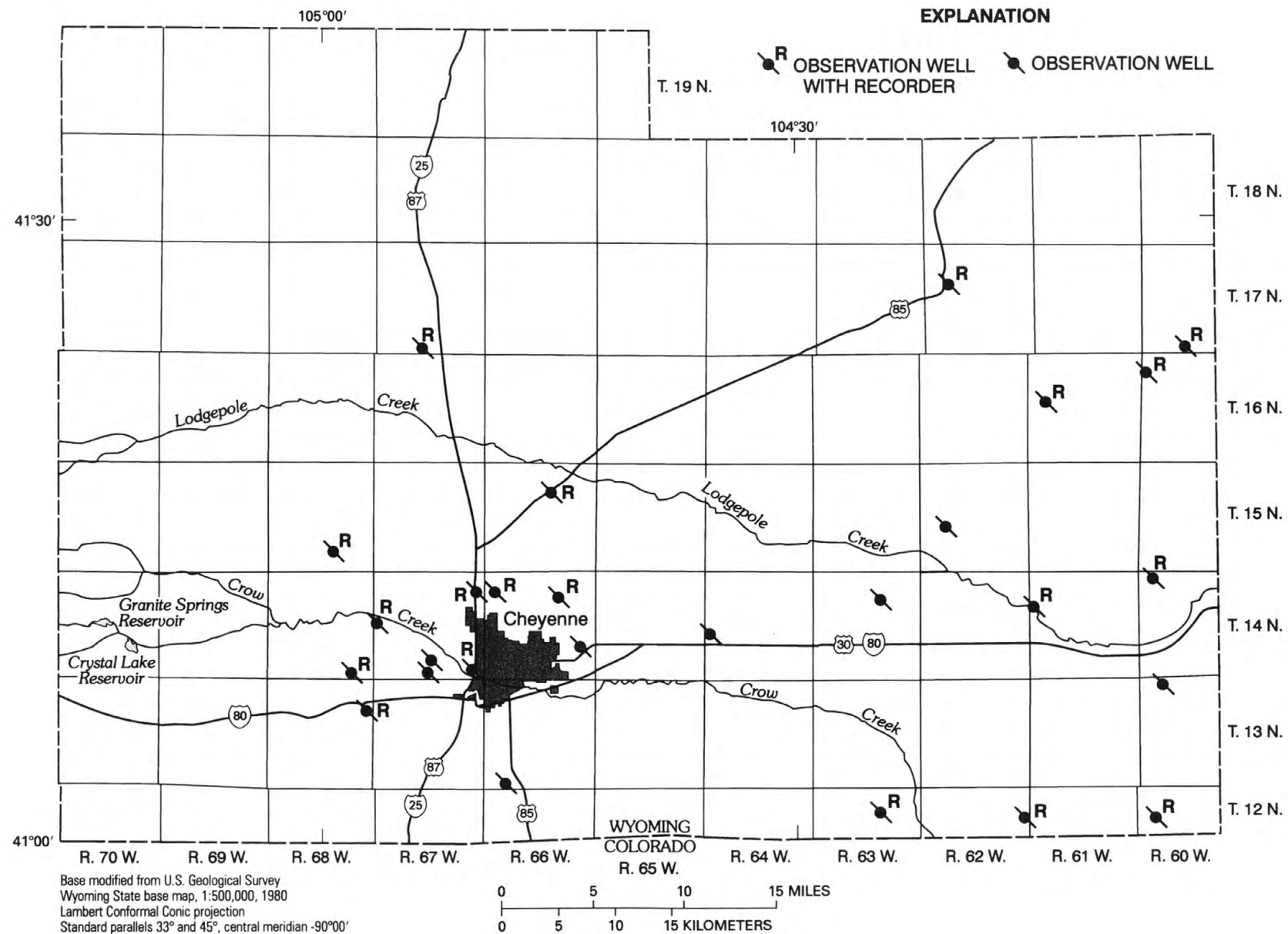


Figure 15. Location of observation wells in Laramie County, Wyoming.

GROUND-WATER LEVELS

LARAMIE COUNTY

410059104072401. Local number, 12-060-07ddd01. Local name, Laramie County #1.

LOCATION.--Lat 41°00'59", long 104°07'24", in SE¹/₄ SE¹/₄ SE¹/₄ sec.7, T.12 N., R.60 W., Hydrologic Unit 10190015.
OWNER: State of Wyoming.

AQUIFER.--Brule Formation.

WELL CHARACTERISTICS.--Depth of well, 120 ft below land surface.

DATUM.--Elevation of land surface is 5,176 ft above sea level, from topographic map. Measuring point: top of casing, 1.70 ft above land surface.

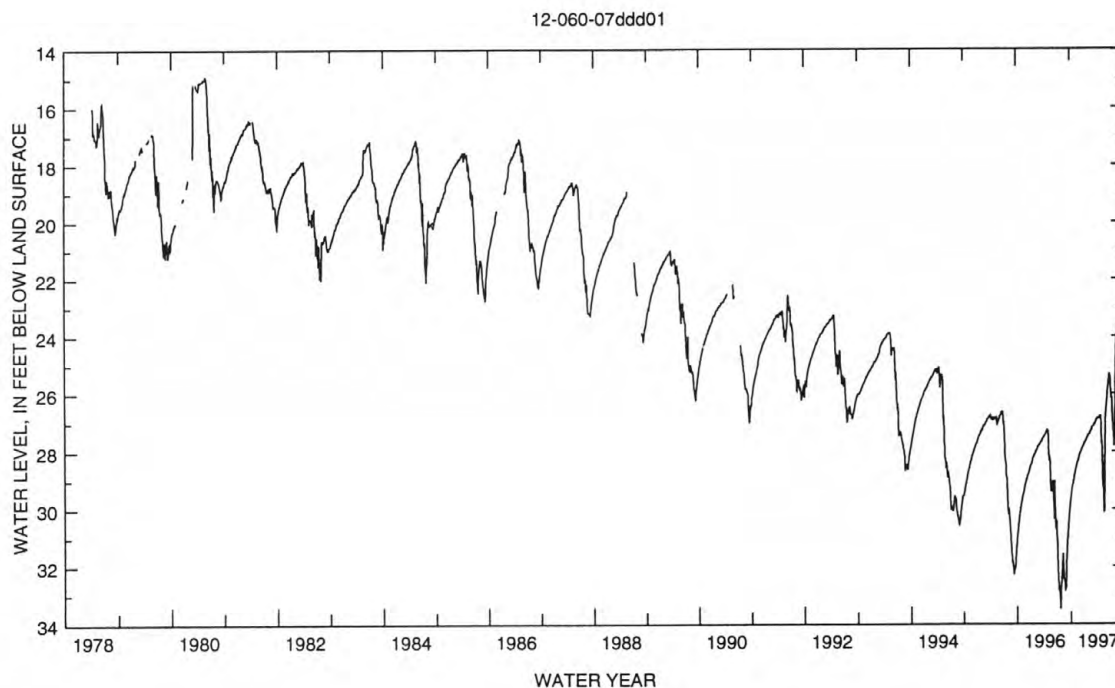
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.90 ft below land surface, May 24, 25, 1980; lowest, 33.49 ft below land surface, July 22, 1996.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.57	28.68	28.07	27.72	27.42	27.13	26.84	27.77	26.38	25.84	26.25	24.70
10	29.38	28.59	28.02	27.68	27.38	27.09	26.85	28.89	26.12	26.14	24.53	24.79
15	29.22	28.44	28.00	27.61	27.32	27.07	26.86	29.15	25.78	26.65	23.87	25.13
20	29.14	28.35	27.90	27.56	27.26	27.04	26.80	30.07	25.54	26.99	23.61	24.95
25	29.02	28.31	27.85	27.52	27.20	26.98	26.77	28.90	25.35	27.61	23.78	24.70
EOM	28.81	28.19	27.81	27.43	27.15	26.90	27.22	26.76	25.40	27.61	24.30	24.54
WTR YR 1997	HIGHEST		23.59	AUG 21	LOWEST		30.13	MAY 19				



GROUND-WATER LEVELS

57

LARAMIE COUNTY

410100104160301. Local number, 12-062-13baa01. Local name, USGS southeast of Carpenter.

LOCATION.--Lat 41°01'00", long 104°16'03", in NE¹/₄ NE¹/₄ NW¹/₄ sec.13, T.12 N., R.62 W., Hydrologic Unit 10190009.
OWNER: Clarence Tietmeyer.

AQUIFER.--Terrace Deposits.

WELL CHARACTERISTICS.--Depth of well, 198 ft below land surface datum.

DATUM.--Elevation of land surface is 5,315 ft above sea level, from topographic map. Measuring point: top of casing, 1.70 ft above land surface.

COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

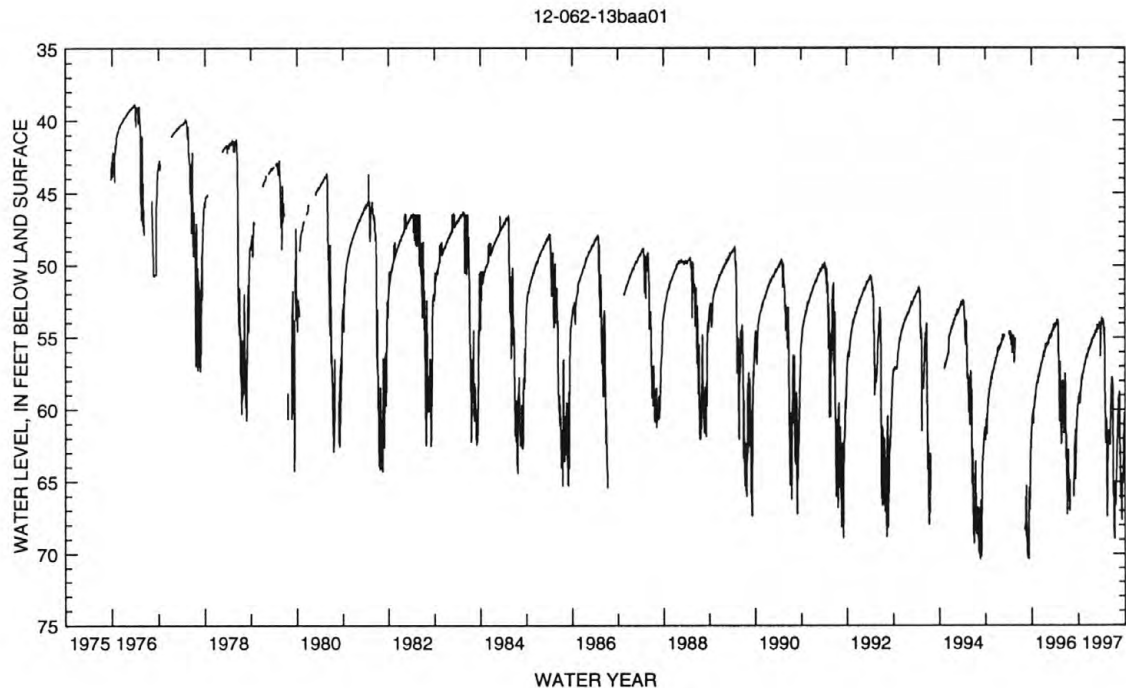
PERIOD OF RECORD.--1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 38.53 ft below land surface, from hand-measured data, May 19, 1975; lowest, 70.38 ft below land surface, Aug. 21, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	59.08	57.49	56.18	55.71	54.93	54.48	53.61	62.33	61.64	65.93	61.33	64.50
10	59.00	57.33	56.12	55.39	54.73	54.21	53.83	60.63	61.47	68.90	60.04	66.34
15	59.39	57.11	56.09	55.17	54.65	54.09	53.75	66.52	59.26	68.99	59.09	64.77
20	58.68	56.86	55.77	55.05	54.47	53.98	54.85	65.34	57.81	65.17	58.86	64.38
25	58.07	56.81	55.73	55.01	54.22	54.83	54.38	62.22	58.02	66.38	62.54	61.20
EOM	57.96	56.52	55.75	54.87	54.12	53.96	59.28	62.07	59.52	63.62	66.17	60.25

WTR YR 1997 HIGHEST 53.61 APR 4, 5 LOWEST 68.99 JUL 15



GROUND-WATER LEVELS

LARAMIE COUNTY

410111104223102. Local number, 12-063-15aaa02. Local name, USGS southwest of Carpenter.

LOCATION.--Lat 41°00'59", long 104°24'32", in NE¹/₄ NE¹/₄ NE¹/₄ sec.15, T.12 N., R.63 W., Hydrologic Unit 10190009.
OWNER: Robert Smith.

AQUIFER.--Brule Formation.

WELL CHARACTERISTICS.--Depth of well, 110 ft below land surface.

DATUM.--Elevation of land surface is 5,385 ft above sea level, from topographic map. Measuring point: top of casing, 1.50 ft above land surface.

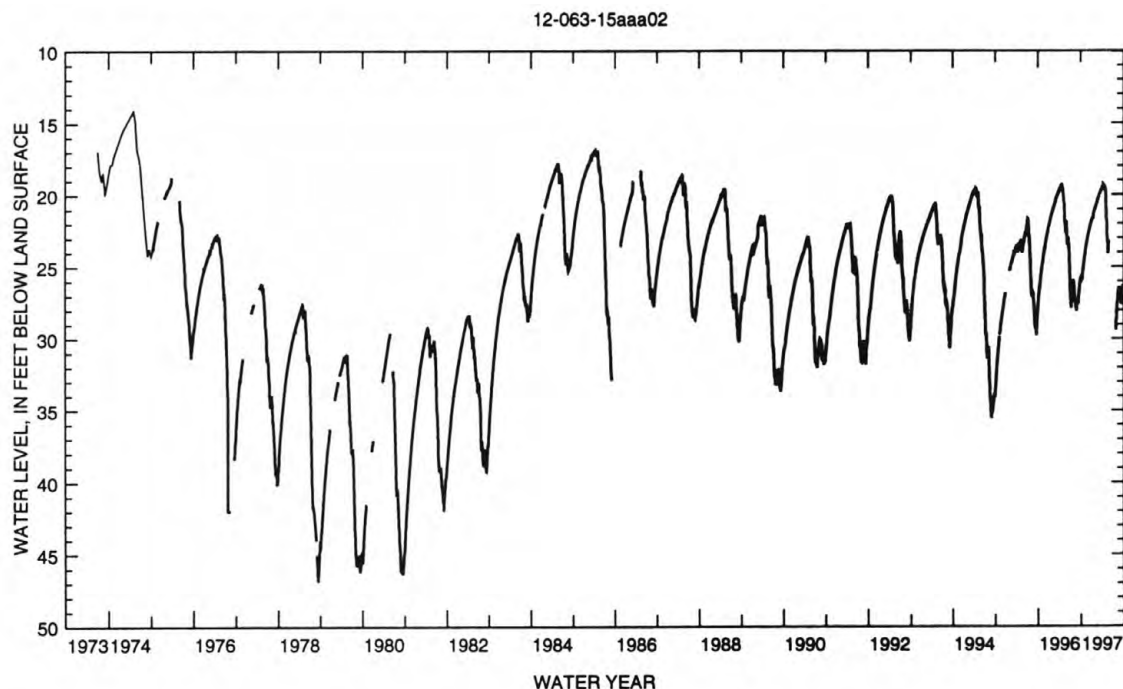
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.12 ft below land surface, May 1, 2, 1974; lowest, 46.86 ft below land surface, Sept. 10, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.84	24.31	22.79	21.78	20.92	20.19	19.50	20.00	---	---	28.39	26.51
10	25.84	24.16	22.64	21.66	20.78	---	19.47	21.40	---	---	27.67	26.92
15	25.74	23.69	22.45	21.65	20.66	19.90	19.31	22.46	---	---	27.13	27.55
20	25.42	23.45	22.22	21.32	20.51	19.82	19.46	23.21	---	---	26.66	27.41
25	24.99	23.23	22.08	21.18	20.37	19.69	19.50	23.89	---	---	26.44	26.81
EOM	24.63	23.01	21.91	21.02	20.28	19.63	19.54	---	---	29.22	26.52	26.30
WTR YR 1997	HIGHEST		19.30	APR 16	LOWEST		29.40	JUL 30				



LARAMIE COUNTY

410703104071201. Local number, 13-060-05ccb01. Local name, Elmer Glantz.

LOCATION.--Lat 41°07'03", long 104°07'12", in NW¹/₄ SW¹/₄ SW¹/₄ sec.5, T.13 N., R.60 W., Hydrologic Unit 10190015.
Owner: Elmer Glantz.

AQUIFER.--Brule Formation.

WELL CHARACTERISTICS.--Depth of well, 100 ft below land surface.

DATUM.--Elevation of land surface is 5,125 ft above sea level, from topographic map. Measuring point: top of casing, at land surface.

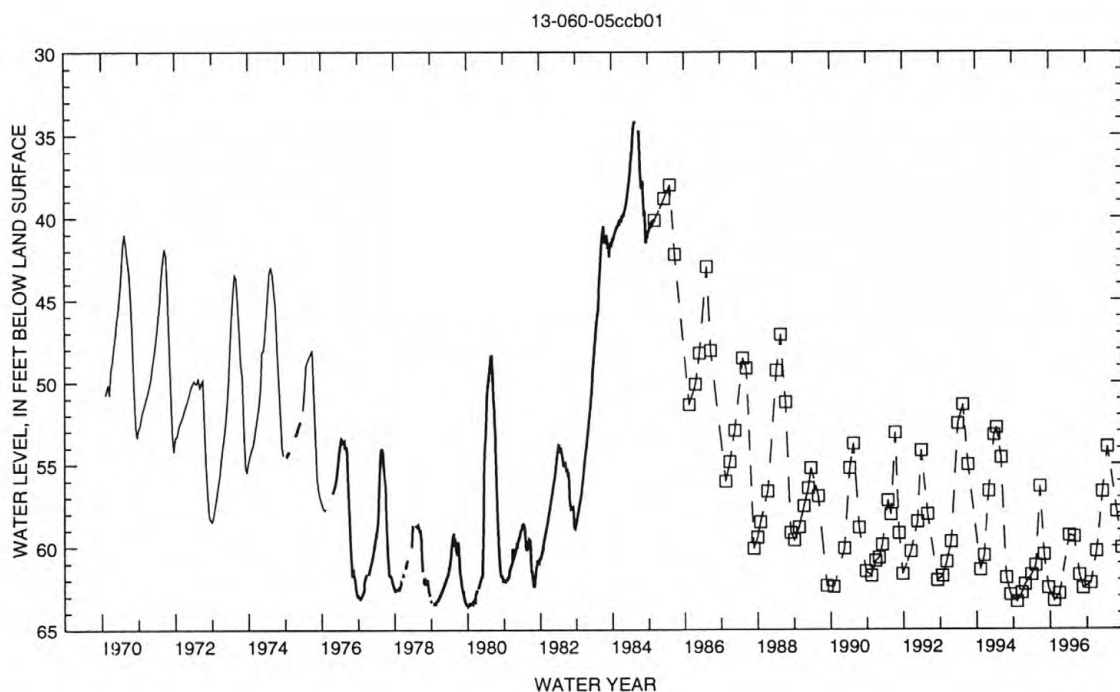
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 34.18 ft below land surface, May 20, 1984; lowest, 63.52 ft below land surface, Oct. 9, 12, 13, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 11	62.20	MAR 10	56.67	JUL 29	57.88
JAN 08	60.29	APR 28	53.95	SEP 15	60.09



GROUND-WATER LEVELS

LARAMIE COUNTY

410324104481701. Local number, 13-066-32bbd01. Local name, Laramie County #14.

LOCATION.--Lat 41°03'24", long 104°48'17", in SE¹/₄ NW¹/₄ sec.32, T.13 N., R.66 W., Hydrologic Unit 10190009.
OWNER: TFS, LLC.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Depth of well, 160 ft below land surface.

DATUM.--Elevation of land surface is 6,180 ft above sea level, from topographic map. Measuring point: top of casing, 1.3 ft above land surface.

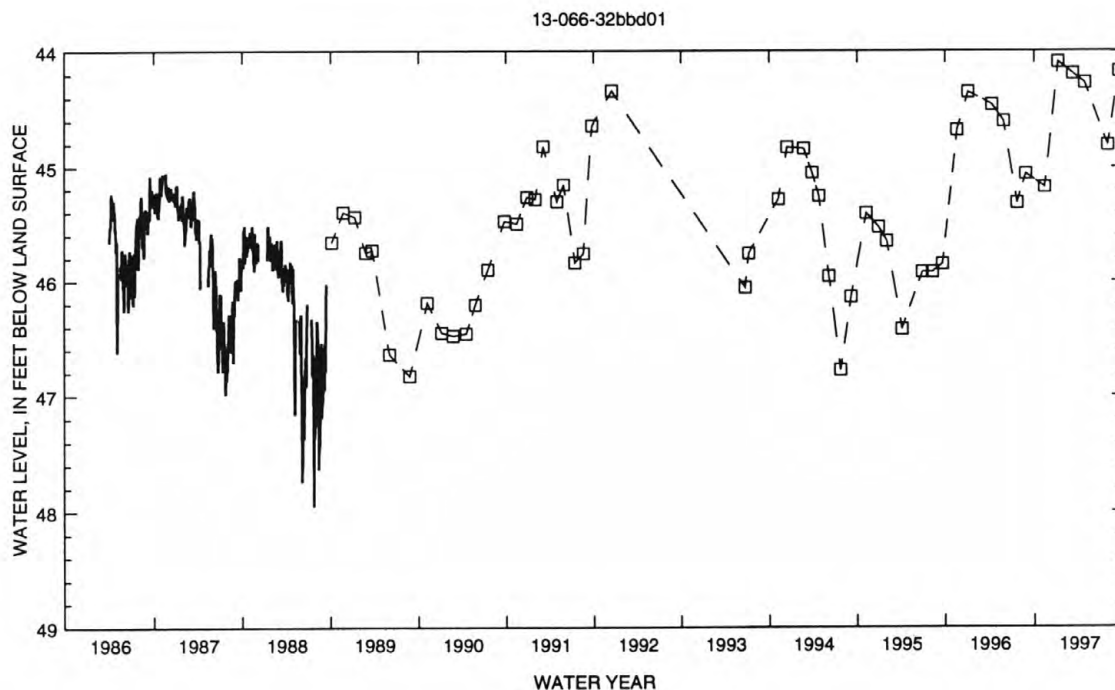
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 44.09 ft below land surface, from hand-measured data, Jan. 8, 1997; lowest, 47.95 ft below land surface, July 23, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 11	45.18	MAR 10	44.19	JUL 29	44.81
JAN 08	44.09	APR 28	44.27	SEP 15	44.17



GROUND-WATER LEVELS

61

LARAMIE COUNTY

410530104574001. Local number, 13-068-13ccc01. Local name, Borie.

LOCATION.--Lat 41°05'30", long 104°57'40", in SW¹/₄ SW¹/₄ SW¹/₄ sec.13, T.13 N., R.68 W., Hydrologic Unit 10190009.
OWNER: Art King.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Depth of well, unknown.

DATUM.--Elevation of land surface is 6,528 ft above sea level, from topographic map. Measuring point, top of casing, 0.80 ft above land surface.

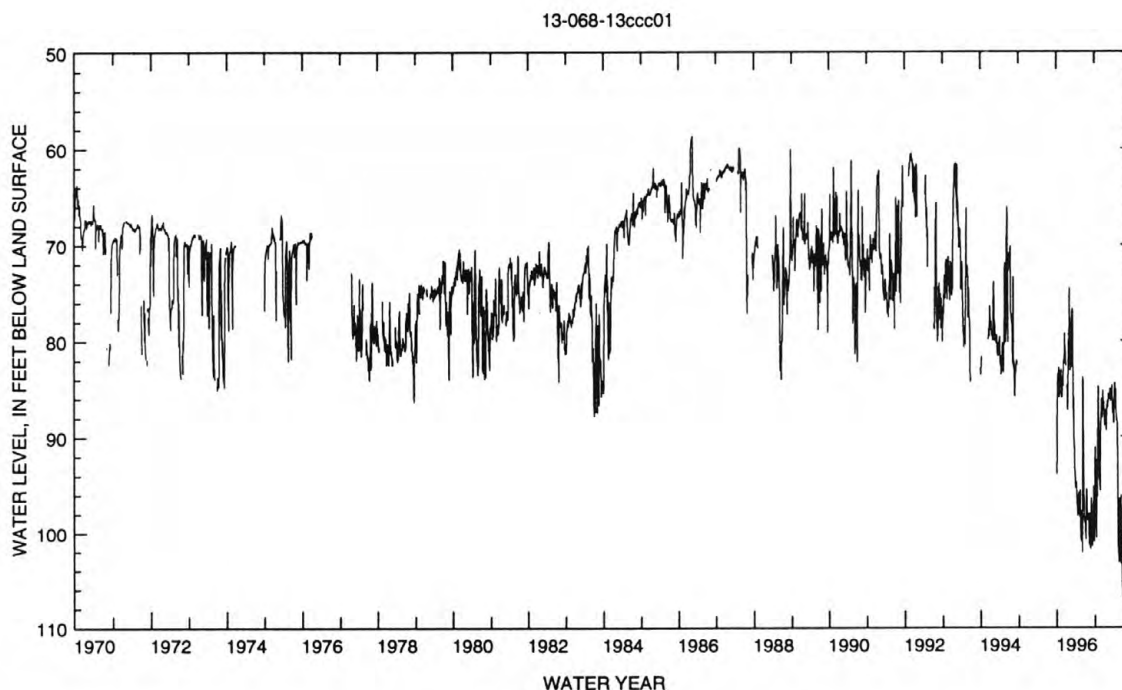
REMARKS.--Data collected by U.S. Geological Survey.

PERIOD OF RECORD.--1942 to 1950, 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 36.78 ft below land surface, from hand-measured data, Mar. 23, 1945; lowest, 106.91 ft below land surface, June 23, 1997.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	91.19	85.50	86.06	88.49	85.85	85.42	86.18	88.36	102.98	102.06	93.40	89.10
10	97.26	90.64	87.65	88.25	86.07	85.87	84.76	96.86	96.13	101.32	90.13	92.12
15	100.61	94.75	86.61	87.75	85.70	84.78	85.81	101.83	99.15	102.50	88.94	94.28
20	92.45	95.67	85.86	89.39	85.83	87.34	87.19	103.18	105.32	100.10	88.43	91.48
25	94.51	89.95	87.06	87.20	85.03	86.45	87.52	97.93	106.61	100.95	87.50	90.56
EOM	86.89	87.60	87.72	86.40	85.44	88.09	88.36	99.28	106.49	98.02	89.65	91.94
WTR YR 1997	HIGHEST	84.41	APR 12	LOWEST	106.91	JUN 23						



LARAMIE COUNTY

411238104070801. Local number, 14-060-05bcb01. Local name, C.C. Gross.

LOCATION.--Lat 41°12'38", long 104°07'08", in NW¹/4 SW¹/4 NW¹/4 sec.5, T.14 N., R.60 W., Hydrologic Unit 10190015.
OWNER: William Gross.

AQUIFER.--Brule Formation.

WELL CHARACTERISTICS.--Depth of well, 100 ft below land surface.

DATUM.--Elevation of land-surface is 5,082 ft above sea level, from topographic map. Measuring point: top of casing, at land surface.

REMARKS.--The hydrograph for the period November 1957 to August 1962 was plotted using intermittent hand measurements, the period from September 1962 to December 1973 was plotted using one measurement for every 15 days, the period from January 1974 to September 30, 1997 was plotted using continuous data. Continuous data for the period from September 1962 to December 1973 is available in hard copy form.

COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

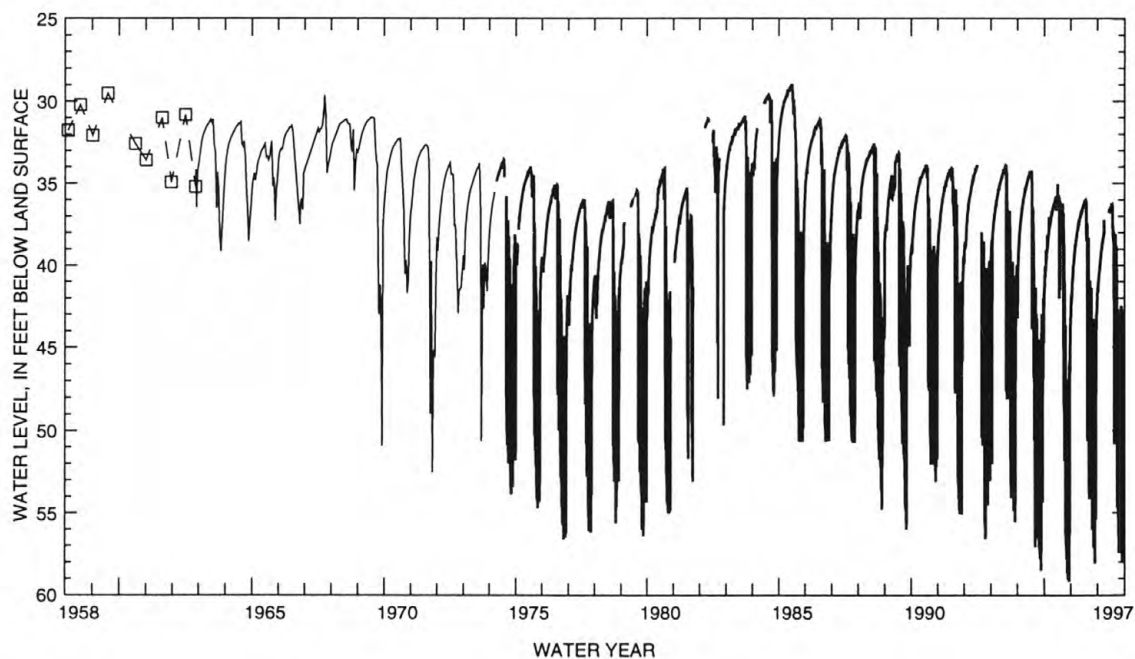
PERIOD OF RECORD.--1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 28.96 ft below land surface, Apr. 3, 4, 1985; lowest, 59.18 ft below land surface, Sept. 10, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	41.63	40.23	38.74	38.01	---	---	36.41	38.18	38.10	43.28	45.15	49.37
10	41.21	39.90	38.61	---	---	---	36.45	38.62	40.65	49.12	44.56	56.55
15	41.37	39.58	38.48	---	---	36.71	36.38	38.88	39.04	45.99	43.04	46.56
20	40.87	39.37	38.32	---	---	36.65	36.29	40.49	39.27	57.19	42.81	44.53
25	40.61	39.21	38.19	---	---	36.63	36.33	39.08	42.26	45.75	45.29	43.32
EOM	40.33	38.97	38.09	---	---	36.49	37.18	38.41	54.46	45.39	46.16	42.75
WTR YR 1997	HIGHEST	36.28	APR 23	LOWEST	57.93	SEP 4						

14-060-05bcb01



GROUND-WATER LEVELS

63

LARAMIE COUNTY

411022104141201. Local number, 14-061-18ddd01. Local name, Laramie County #2.

LOCATION.--Lat 41°10'22", long 104°14'12", in SE¹/₄ SE¹/₄ SE¹/₄ sec.18, T.14 N., R.61 W., Hydrologic Unit 10190015.
Owner: State of Wyoming.

AQUIFER.--Brule Formation.

WELL CHARACTERISTICS.--Depth of well, 90.0 ft below land surface.

DATUM.--Elevation of land surface is 5,264 ft above sea level, from topographic map. Measuring point: top of casing, 1.70 ft above land surface.

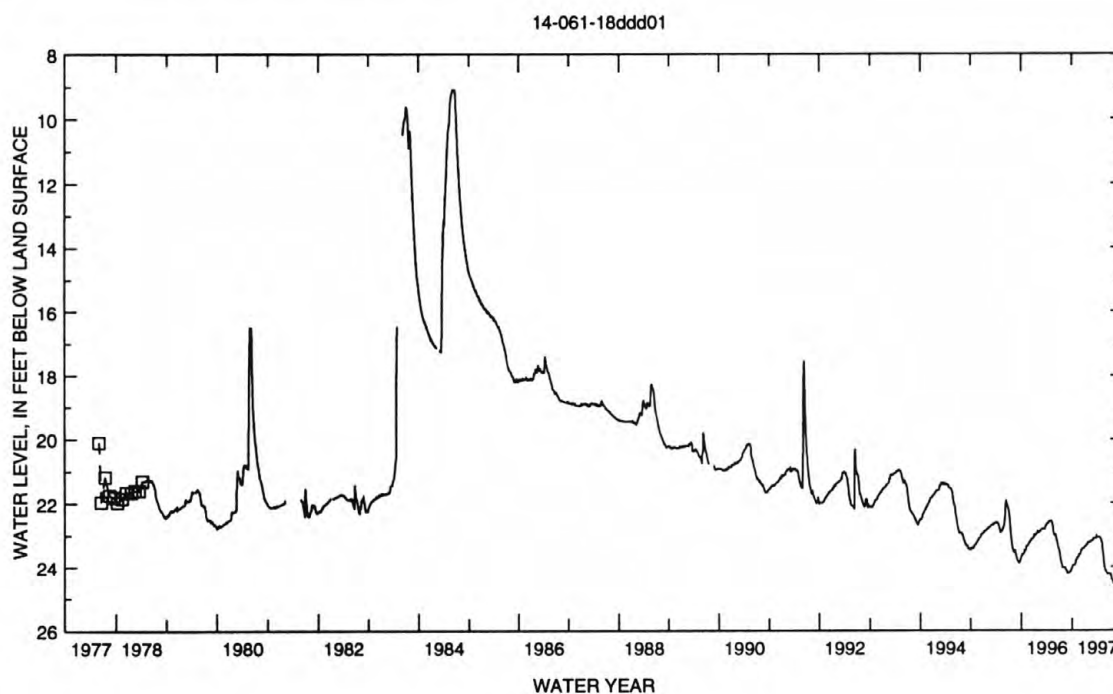
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.08 ft below land surface, June 18, 1984; lowest, 24.77 ft below land surface, Sept. 16, 17, 18, 1997.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.99	23.77	23.47	23.36	23.21	23.11	23.07	23.25	24.16	24.24	24.58	24.64
10	23.95	23.70	23.47	23.33	23.22	23.09	23.07	23.49	24.22	24.28	24.58	24.66
15	23.94	23.69	23.44	23.30	23.18	23.09	23.08	23.67	24.25	24.39	24.54	24.66
20	23.94	23.60	23.42	23.30	23.18	23.10	23.08	23.92	24.23	24.45	24.54	24.76
25	23.89	23.60	23.41	23.25	23.18	23.09	23.13	24.09	24.23	24.51	24.54	24.76
EOM	23.78	23.61	23.38	23.21	23.17	23.07	23.19	24.13	24.23	24.58	24.59	24.70
WTR YR 1997	HIGHEST		23.05	MAR 27	LOWEST		24.77	SEP 16				



GROUND-WATER LEVELS

LARAMIE COUNTY

411114104242501. Local number, 14-063-15aaa01. Local name, Laramie County #3.

LOCATION.--Lat 41°11'14", long 104°24'25", in NE¹/₄ NE¹/₄ NE¹/₄ sec.15, T.14 N., R.63 W., Hydrologic Unit 10190015.
Owner: State of Wyoming.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 165 ft below land surface.

DATUM.--Elevation of land surface is 5,489 ft above sea level, from topographic map. Measuring point: top of casing, 1.3 ft above land surface.

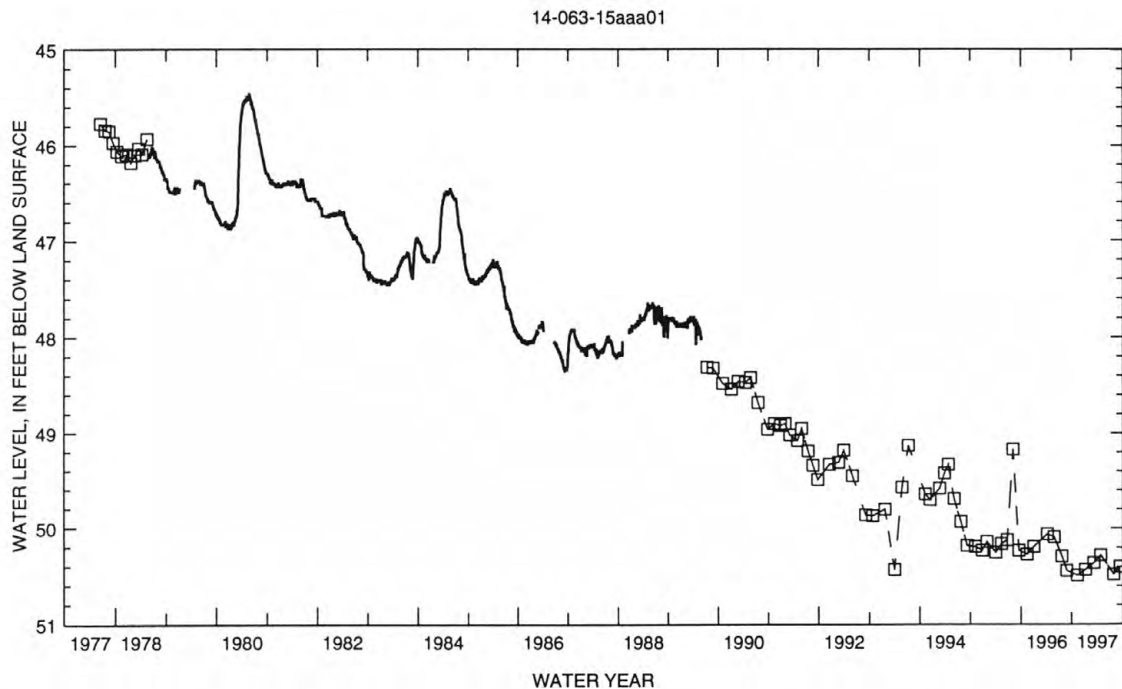
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 45.45 ft below land surface, May 24, 1980; lowest, 50.49 ft below land surface, from hand-measured data, Nov. 11, 1996.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 11	50.49	MAR 10	50.36	JUL 29	50.48
JAN 08	50.43	APR 28	50.28	SEP 15	50.40



LARAMIE COUNTY

411005104355001. Local number, 14-064-19bcc01. Local name, Laramie County #9.

LOCATION.--Lat 41°10'05", long 104°35'50", in SW¹/₄ SW¹/₄ NW¹/₄ sec.19, T.14 N., R.64 W., Hydrologic Unit 10190015.
Owner: State of Wyoming.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Depth of well, 180 ft below land surface.

DATUM.--Elevation of land surface is 5,880 ft above sea level, from topographic map. Measuring point: top of casing, 1.5 ft above land surface.

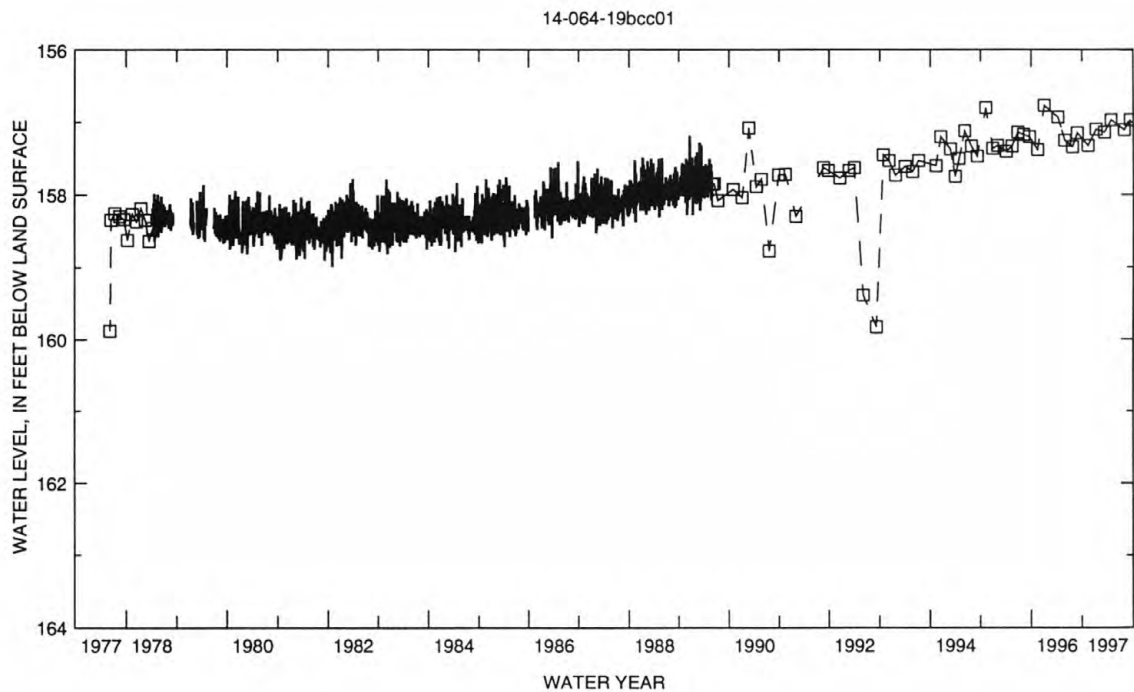
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 156.77 ft below land surface, from hand-measured data, Jan. 3, 1996; lowest, 159.88 ft below land surface, from hand-measured data, June 7, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 11	157.32	MAR 10	157.14	JUL 30	157.11
JAN 08	157.10	APR 28	156.97	SEP 15	156.97



LARAMIE COUNTY

411147104490501. Local number, 14-066-07add01. Local name, National Land #1.

LOCATION.--Lat 41°11'47", long 104°49'05", in SE¹/₄ SE¹/₄ NE¹/₄ sec.7, T.14 N., R.66 W., Hydrologic Unit 10190009.
Owner: National Land Company.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Depth of well, 350 ft below land surface.

DATUM.--Elevation of land surface is 6,170 ft above sea level, from topographic map. Measuring point: top of casing, 1.70 ft above land surface.

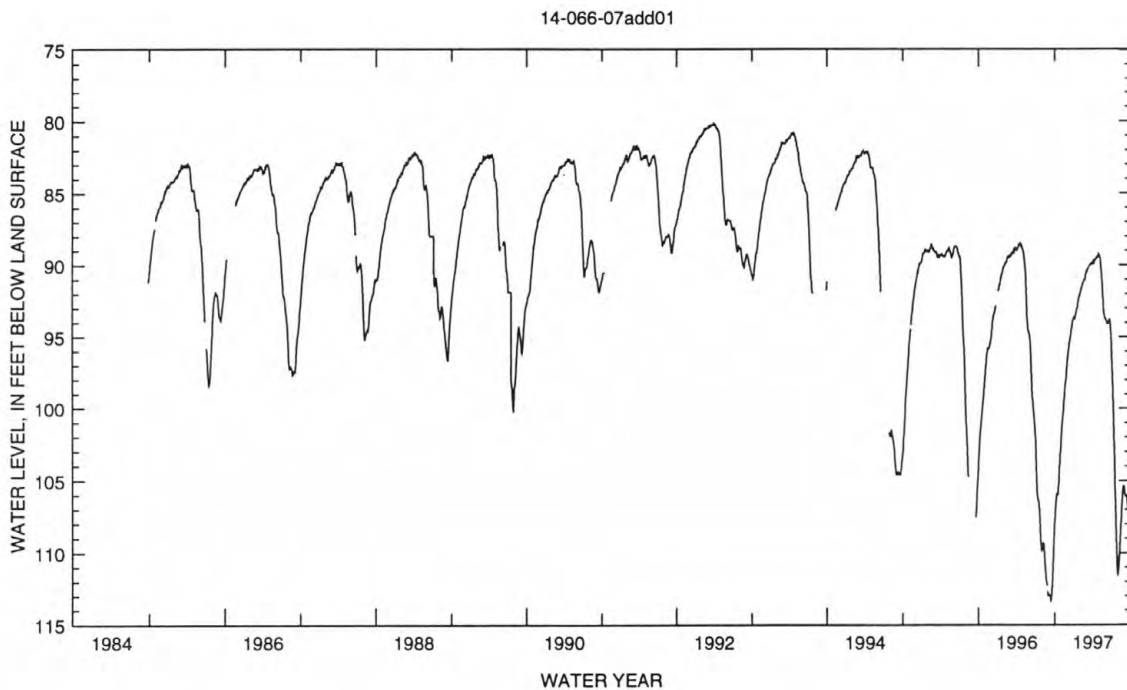
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 80.18 ft below land surface, Mar. 28, 1992; lowest, 113.35 ft below land surface, Sept. 12, 1996.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	107.00	101.40	96.09	93.71	91.71	90.47	89.68	89.43	93.81	97.47	110.81	106.04
10	106.11	100.52	95.46	93.46	91.41	90.25	89.76	89.88	94.08	100.06	109.50	106.10
15	105.97	99.47	95.10	93.04	91.18	90.06	89.63	90.83	94.06	102.97	108.01	106.57
20	105.38	98.61	94.51	92.65	91.03	90.01	89.45	92.07	93.78	106.43	106.66	107.27
25	104.00	97.89	94.05	92.25	90.74	90.01	89.46	93.26	94.10	109.57	105.57	106.50
EOM	102.64	97.02	93.73	91.91	90.49	89.89	89.33	93.72	95.33	111.53	105.46	105.51
WTR YR 1997	HIGHEST		89.25	MAY 1	LOWEST	111.53	JUL 31					



GROUND-WATER LEVELS

67

LARAMIE COUNTY

411210104452001. Local number, 14-066-10aba01. Local name, Laramie County #8.

LOCATION.--Lat 41°12'10", long 104°45'20", in NE¹/₄ NW¹/₄ NE¹/₄ sec.10, T.14 N., R.66 W., Hydrologic Unit 10190015.
Owner: Unknown.

AQUIFER.--Ogalalla Formation.

WELL CHARACTERISTICS.--Depth of well, 190 ft below land surface.

DATUM.--Elevation of land surface is 6,090 ft above sea level, from topographic map. Measuring point: top of casing, 1.40 ft above land surface.

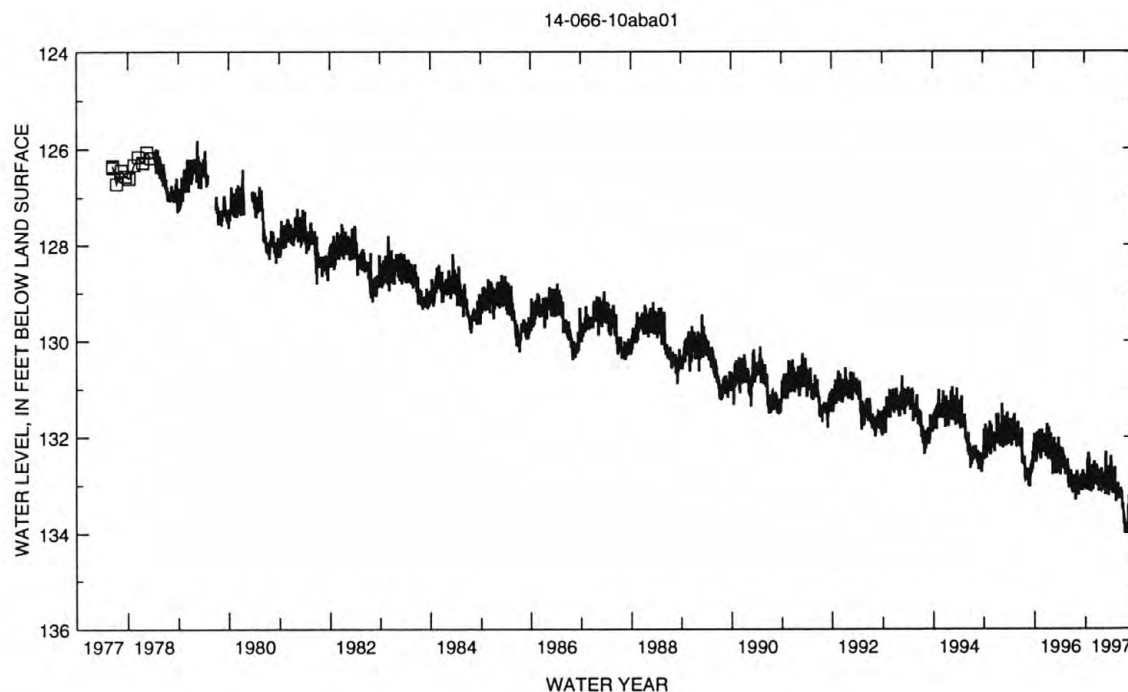
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 125.82 ft below land surface, Feb. 14, 1979; lowest, 134.00 ft below land surface, July 16, 1997.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	132.96	132.75	132.50	132.98	133.06	132.97	132.39	133.17	133.11	133.67	133.81	133.43
10	133.09	132.99	132.63	132.79	132.95	132.98	132.91	133.26	133.21	133.79	133.58	133.26
15	132.89	132.60	132.94	132.70	132.91	132.86	132.98	133.24	133.15	133.98	133.22	133.43
20	132.53	132.66	132.62	132.78	132.79	132.99	132.88	133.18	133.12	133.83	133.57	133.50
25	132.39	133.00	132.71	132.69	132.75	133.03	133.05	132.95	133.45	133.91	133.47	133.37
EOM	132.94	132.73	133.02	132.85	132.30	132.78	132.79	133.28	133.44	133.83	133.44	133.35
WTR YR 1997	HIGHEST	132.30	FEB 28	LOWEST	134.00	JUL 16						



GROUND-WATER LEVELS

LARAMIE COUNTY

410940104435701. Local number, 14-066-23ddd01. Local name, Laramie County #15.

LOCATION.--Lat 41°09'40", long 104°43'57", in SE¹/₄ SE¹/₄ SE¹/₄ sec.23, T.14 N., R.66 W., Hydrologic Unit 10190009.
Owner: Laramie County.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Depth of well, 216 ft below land surface.

DATUM.--Elevation of land surface is 6,043 ft above sea level, from topographic map. Measuring point: top of casing, 1.60 ft above land surface.

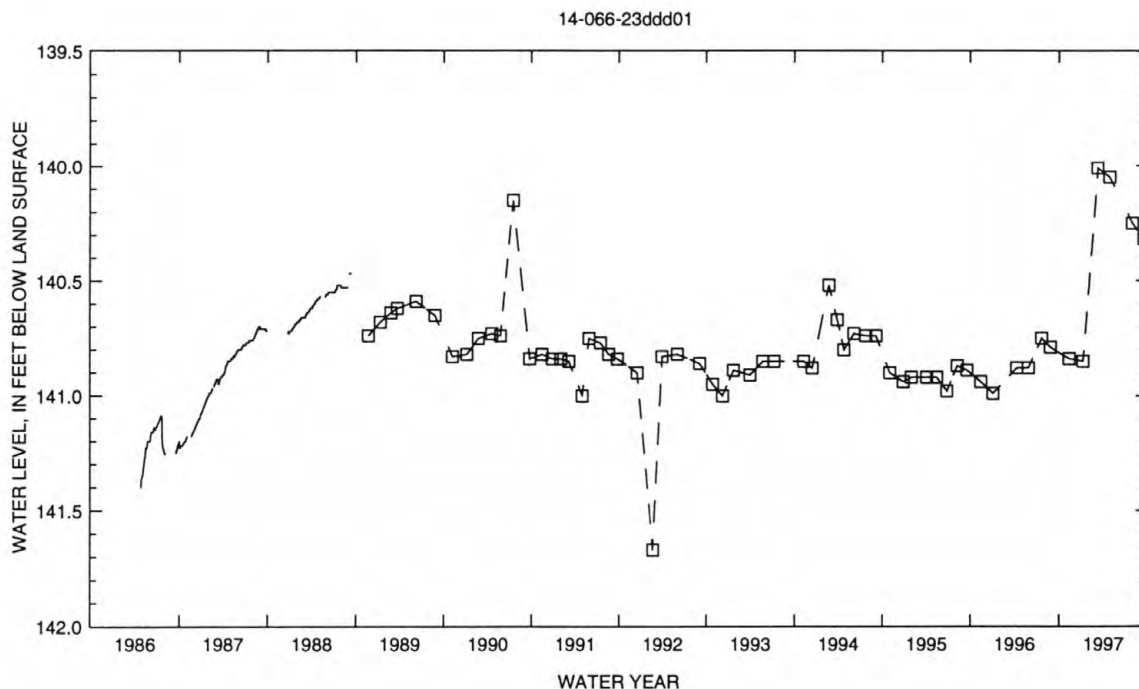
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 140.01 ft below land surface, Mar. 10, 1997; lowest, 141.67 ft below land surface, Feb. 20, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 11	140.84	MAR 10	140.01	JUL 30	140.25
JAN 08	140.85	APR 28	140.05	SEP 15	140.32



LARAMIE COUNTY

411213104501401. Local number, 14-067-12abb01. Local name, Laramie County #10.

LOCATION.--Lat 41°12'13", long 104°50'14", in NW¹/₄ NW¹/₄ NE¹/₄ sec.12, T.14 N., R.67 W., Hydrologic Unit 10190009.
Owner: State of Wyoming.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Depth of well, 220 ft below land surface.

DATUM.--Elevation of land surface is 6,230 ft above sea level, from topographic map. Measuring point: top of casing, 1.25 ft above land surface.

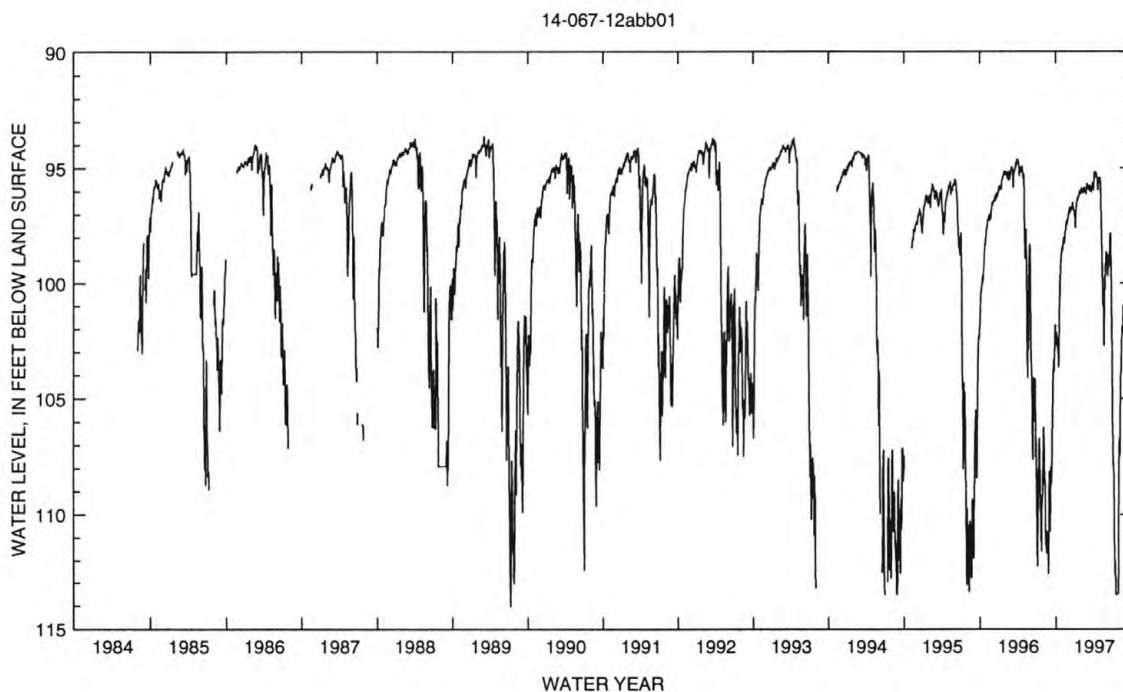
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 93.62 ft below land surface, Mar. 3, 1989; lowest, 114.04 ft below land surface, July 9, 1989.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	102.16	98.33	96.77	97.16	95.99	95.87	95.17	96.11	98.92	107.98	106.13	104.66
10	102.54	98.03	96.82	96.46	96.11	95.95	95.25	98.49	98.84	112.64	103.52	105.91
15	103.49	97.78	96.84	96.26	95.83	95.79	95.25	100.98	98.82	113.51	101.97	108.64
20	100.67	97.48	96.57	96.19	95.92	95.98	95.93	102.73	97.84	113.50	100.99	105.21
25	99.13	97.41	96.68	96.00	95.98	95.79	95.48	99.76	101.58	113.49	102.08	102.07
EOM	98.49	97.09	97.05	95.97	95.67	95.98	95.49	98.64	106.25	107.64	104.92	102.48
WTR YR 1997	HIGHEST	95.17	APR 5	LOWEST	113.51	JUL 15						



LARAMIE COUNTY

411034104554001. Local number, 14-067-18ddc01. Local name, Bell #14.

LOCATION.--Lat 41°10'34", long 104°55'40", in SW¹/₄ SE¹/₄ SE¹/₄ sec.18, T.14 N., R.67 W., Hydrologic Unit 10190009.
Owner: Polo Ranch.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Depth of well, 229 ft below land surface.

DATUM.--Elevation of land surface is 6,248 ft above sea level, from topographic map. Measuring point: top of casing, 1.50 ft above land surface.

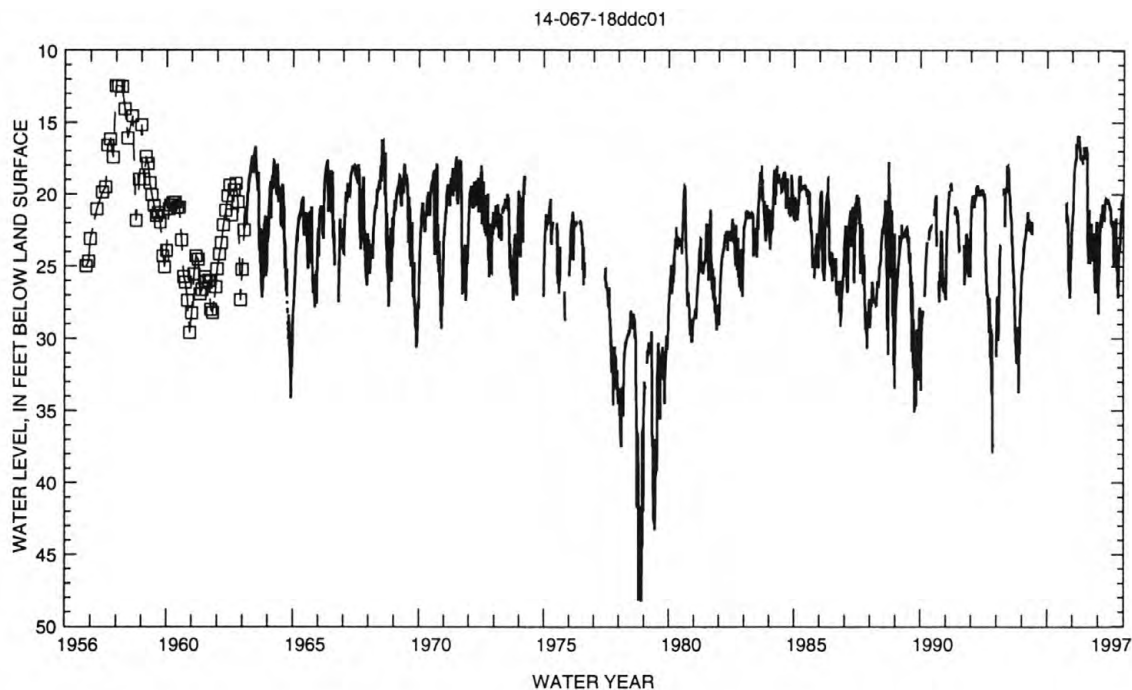
REMARKS.--Data collected by U.S. Geological Survey.

PERIOD OF RECORD.--1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.48 ft below land surface, from hand measured data, Sept. 26, Oct. 28, 1957; lowest, 48.25 ft below land surface, Aug. 31, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.57	22.40	20.94	21.79	20.43	20.73	21.25	21.98	22.36	25.28	23.76	20.76
10	24.16	21.81	20.73	21.05	20.39	20.65	21.77	22.03	22.81	24.96	23.63	20.37
15	26.91	21.78	20.94	20.54	20.46	20.67	21.99	23.84	23.62	26.43	23.85	20.82
20	25.59	22.07	21.31	20.34	20.45	20.88	22.06	24.66	21.68	26.52	23.47	21.36
25	24.86	22.22	21.51	20.32	20.39	21.08	22.18	23.48	23.05	26.71	22.31	20.34
EOM	23.58	21.73	21.72	20.34	20.38	20.91	21.98	22.71	24.23	24.95	21.40	20.01
WTR YR 1997	HIGHEST		20.01	SEP 30	LOWEST		28.31	OCT 14				



LARAMIE COUNTY

410930104524701. Local number, 14-067-27bac01. Local name, Laramie County #13.

LOCATION.--Lat 41°09'30", long 104°52'47", in SW¹/₄ NE¹/₄ NW¹/₄ sec.27, T.14 N., R.67 W., Hydrologic Unit 10190009.
Owner: Laramie County.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Depth of well, 140 ft below land surface.

DATUM.--Elevation of land surface is 6,180 ft above sea level, from topographic map. Measuring point: top of casing, 1.8 ft above land surface.

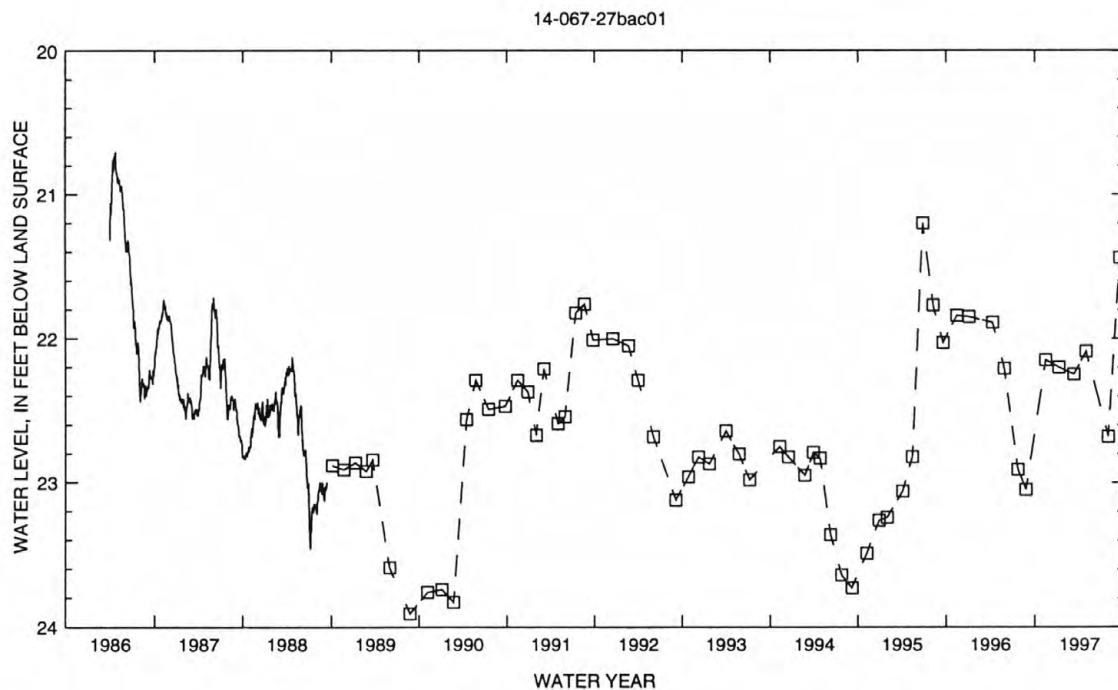
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 20.71 ft below land surface, Apr. 22, 23, 1986; lowest, 23.91 ft below land surface, Aug. 25, 1989.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 15	22.15	MAR 11	22.25	JUL 30	22.68
JAN 09	22.20	APR 30	22.09	SEP 16	21.44



GROUND-WATER LEVELS

LARAMIE COUNTY

410838104530401. Local number, 14-067-34bbc01. Local name, Laramie County #11.

LOCATION.--Lat 41°08'38", long 104°53'04", in SW¹/₄ NW¹/₄ NW¹/₄ sec.34, T.14 N., R.67 W., Hydrologic Unit 10190009.
Owner: Laramie County.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Depth of well, 162 ft below land surface.

DATUM.--Elevation of land surface is 6,210 ft above sea level, from topographic map. Measuring point: top of casing, 1.50 ft above land surface.

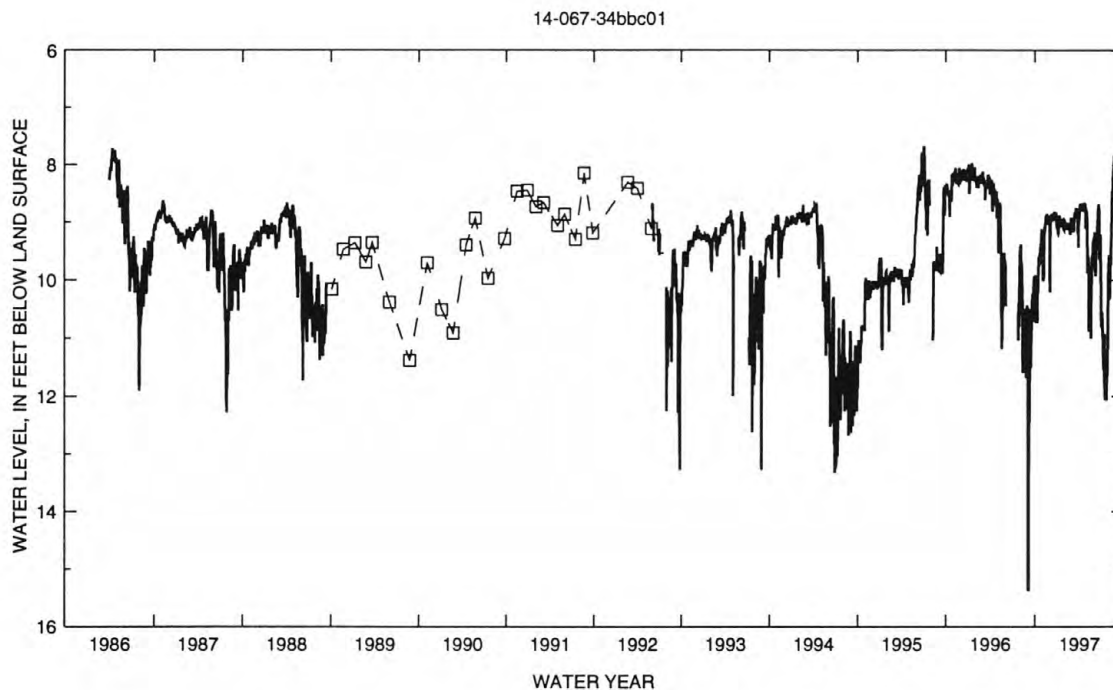
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.58 ft below land surface, Sept. 27, 1997; lowest, 15.38 ft below land surface, Sept. 4, 1996.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.37	9.98	8.93	9.19	9.05	9.15	8.68	9.34	9.48	10.67	10.27	7.87
10	10.73	9.07	8.85	8.92	9.12	9.14	8.69	9.88	9.29	11.39	9.38	8.23
15	9.90	8.92	8.97	9.01	9.00	8.84	8.71	10.55	9.05	11.73	8.45	9.19
20	9.59	8.87	8.82	8.99	9.01	8.75	8.78	11.00	8.71	11.46	8.06	8.11
25	9.38	9.03	8.83	9.01	9.05	8.82	8.73	9.57	9.46	11.39	7.93	7.64
EOM	9.29	8.92	9.02	8.97	8.92	9.03	8.83	9.27	10.18	9.78	7.96	8.25
WTR YR 1997	HIGHEST		7.58	SEP 27	LOWEST		12.07	JUL 23				



LARAMIE COUNTY

410827104501601. Local number, 14-067-36acb01. Local name, Pioneer Park.

LOCATION.--Lat 41°08'27", long 104°50'16", in NW¹/₄ SW¹/₄ NE¹/₄ sec.36, T.14 N., R.67 W., Hydrologic Unit 10190009.
Owner: U.S. Geological Survey.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Depth of well, 24 ft below land surface.

DATUM.--Elevation of land surface is 6,099 ft above sea level, from topographic map. Measuring point: top of casing, 1.00 ft above land surface.

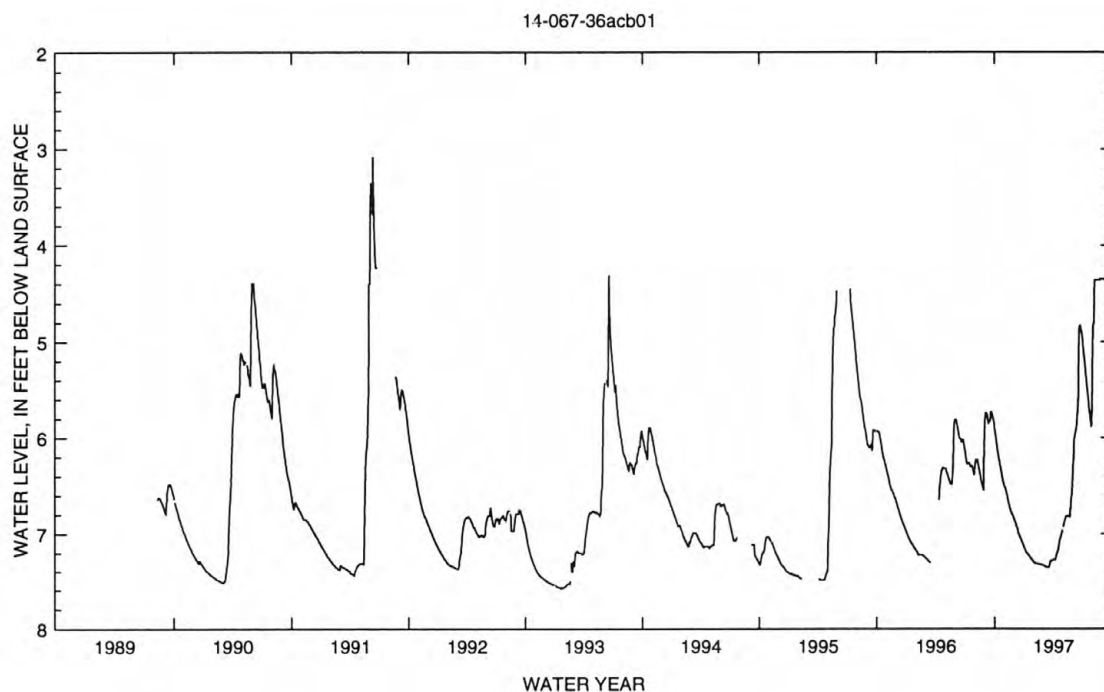
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.08 ft below land surface, June 13, 1991; lowest, 7.58 ft below land surface, Jan. 18-20, 23, 24, 25, 26, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.97	6.54	6.88	7.17	7.31	7.34	7.27	6.88	6.01	5.15	4.67	4.35
10	6.11	6.60	6.93	7.20	7.31	7.35	7.23	6.82	5.91	5.33	4.36	4.35
15	6.22	6.69	7.00	7.22	7.32	7.35	7.18	6.81	5.73	5.50	4.36	4.35
20	6.30	6.76	7.04	7.25	7.32	7.32	7.07	6.82	4.87	5.68	4.36	4.34
25	6.40	6.80	7.08	7.27	7.33	7.28	7.02	6.68	4.86	5.83	4.35	4.33
EOM	6.49	6.83	7.13	7.30	7.33	7.27	---	6.36	4.97	5.06	4.35	4.33
WTR YR 1997	HIGHEST		4.33	SEP 22-30		LOWEST	7.35	MAR 9-18				



LARAMIE COUNTY

410757104582302. Local number, 14-068-35ddc02. Local name, King #3.

LOCATION.--Lat 41°07'57", long 104°58'23", in SW¹/₄ SE¹/₄ SE¹/₄ sec.35, T.14 N., R.68 W., Hydrologic Unit 10190009.
Owner: City of Cheyenne.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Depth of well, 230 ft below land surface.

DATUM.--Elevation of land surface is 6,520 ft above sea level, from levels. Measuring point: top of casing, at land surface.

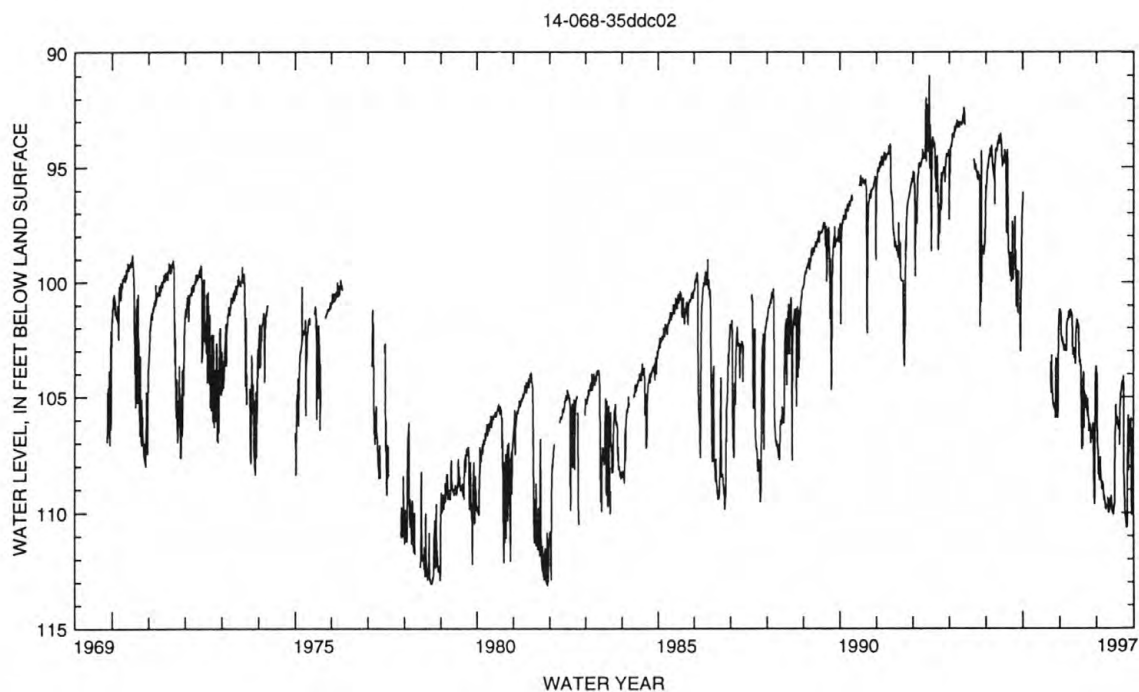
REMARKS.--Data collected by U.S. Geological Survey.

PERIOD OF RECORD.--1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 91.00 ft below land surface, Mar. 15, 1992; lowest, 113.15 ft below land surface, Sept. 13, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	103.87	108.54	108.72	109.68	110.01	109.69	107.17	106.17	104.76	108.79	110.59	106.04
10	104.02	107.68	108.87	---	109.86	109.95	106.52	106.35	104.65	109.27	106.84	105.95
15	106.76	108.10	109.30	---	109.47	109.89	105.34	106.30	104.34	110.08	105.82	109.60
20	107.32	108.54	109.35	---	109.57	110.10	105.98	106.33	104.46	110.24	108.21	108.77
25	107.88	108.89	109.54	109.54	109.67	109.87	106.07	105.71	104.29	110.49	106.32	106.71
EOM	108.33	108.75	109.79	109.94	109.27	109.66	105.96	105.03	104.08	110.64	106.02	106.64
WTR YR 1997	HIGHEST		103.65	OCT 1	LOWEST		110.64	JUL 29-31				



LARAMIE COUNTY

411531104194701. Local number, 15-062-20aaa01. Local name, Laramie County #4.

LOCATION.--Lat 41°15'31", long 104°19'47", in NE¹/₄ NE¹/₄ NE¹/₄ sec.20, T.15 N., R.62 W., Hydrologic Unit 10190015.
Owner: State of Wyoming.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Depth of well, 165 ft below land surface.

DATUM.--Elevation of land surface is 5,510 ft above sea level, from topographic map. Measuring point: top of casing, 1.0 ft above land surface.

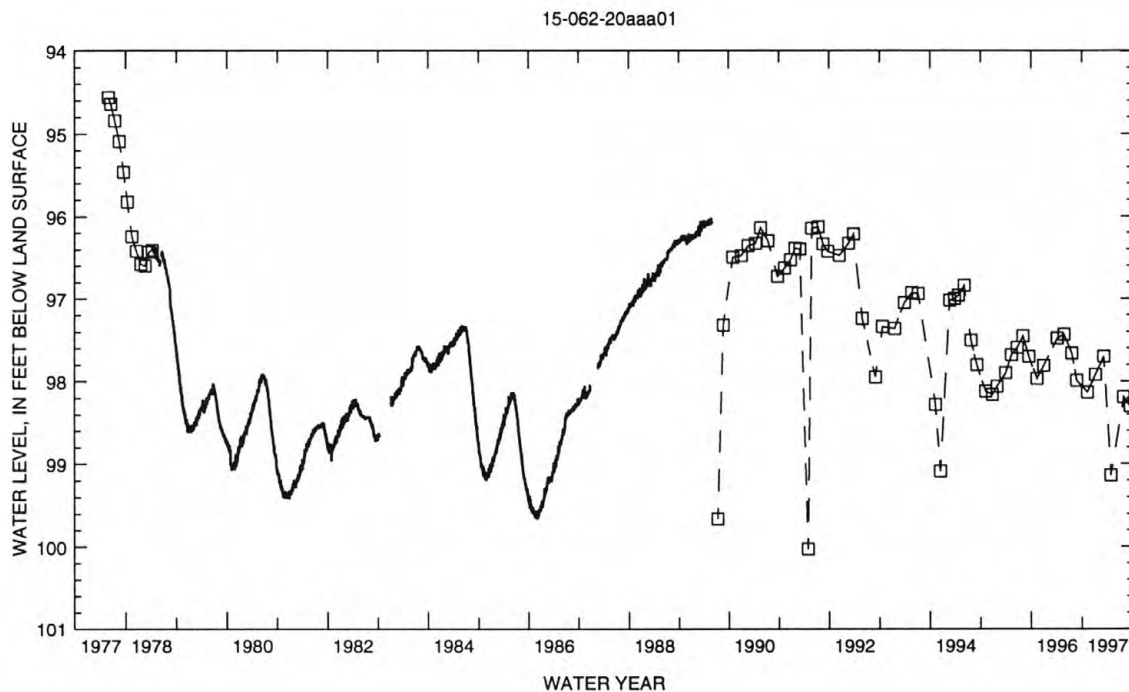
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 94.56 ft below land surface, from hand-measured data, June 1, 1977; lowest, 100.03 ft below land surface, May 1, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 11	98.13	MAR 10	97.70	JUL 29	98.19
JAN 08	97.92	APR 28	99.14	SEP 15	98.30



GROUND-WATER LEVELS

LARAMIE COUNTY

411725104454601. Local number, 15-066-10bab01. Local name, Laramie County #7.

LOCATION.--Lat 41°17'25", long 104°45'46", in NW¹/₄ NE¹/₄ NW¹/₄ sec.10, T.15 N., R.66 W., Hydrologic Unit 10190015.
Owner: State of Wyoming.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Depth of well, 210 ft below land surface.

DATUM.--Elevation of land surface is 6,050 ft above sea level, from topographic map. Measuring point: top of casing, 1.40 ft above land surface.

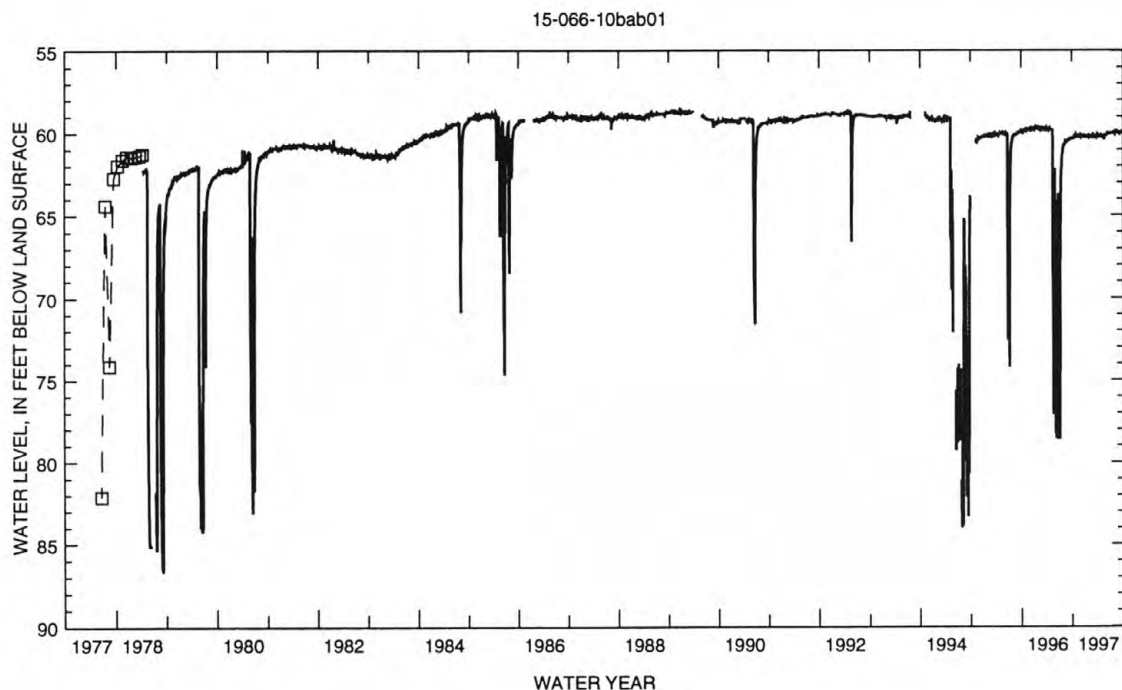
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1977 to September 1997, discontinued. Data are no longer collected as part of the U.S. Geological Survey cooperative program. The well may still exist and additional data may be available at other sources.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 58.60 ft below land surface, Nov. 3, 1988; lowest, 86.70 ft below land surface, Sept. 4, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	60.33	60.21	60.11	60.22	60.26	60.19	60.07	60.22	60.12	60.01	59.91	59.99
10	60.33	60.25	60.15	60.23	60.25	60.21	60.22	60.24	60.11	60.00	59.88	60.00
15	60.29	60.13	60.23	60.19	60.21	60.19	60.19	60.16	59.99	59.99	59.87	59.99
20	60.17	60.13	60.13	60.24	60.20	60.26	60.19	60.26	60.00	59.99	59.91	59.96
25	60.17	60.23	60.18	60.19	60.21	60.18	60.20	60.19	60.02	59.99	59.95	59.92
EOM	60.22	60.17	60.24	60.20	60.10	60.19	60.16	60.17	60.01	59.94	59.95	59.91
WTR YR 1997	HIGHEST	59.87	AUG 15	LOWEST	60.41	MAY 21						



LARAMIE COUNTY

411425104592701. Local number, 15-068-27ccc01. Local name, MX-West.

LOCATION.--Lat 41°14'25", long 104°59'27", in SW¹/₄ SW¹/₄ SW¹/₄ sec.27, T.15 N., R.68 W., Hydrologic Unit 10190009.
Owner: Warren Livestock Company.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Depth of well, 350 ft below land surface.

DATUM.--Elevation of land surface is 6,595 ft above sea level, from topographic map. Measuring point: top of casing, 1.60 ft above land surface.

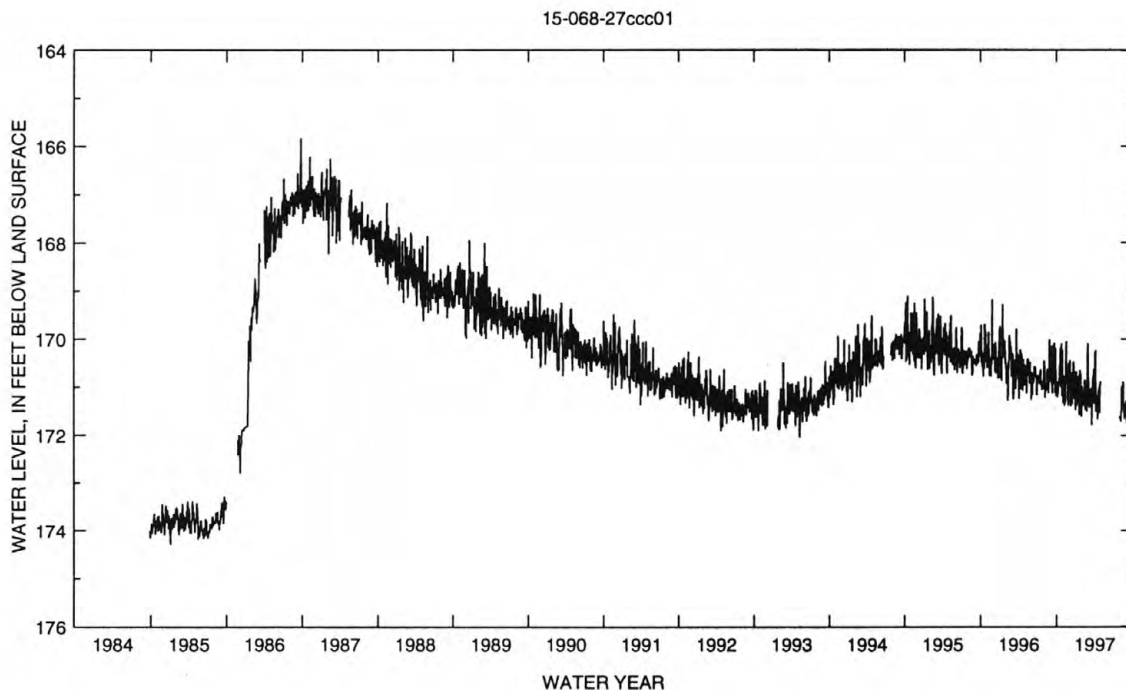
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1984 to September 1997, discontinued. Data are no longer collected as part of the U.S. Geological Survey cooperative program. The well may still exist and additional data may be available at other sources.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 165.84 ft below land surface, Sept. 24, 25, 1986; lowest, 174.30 ft below land surface, Jan. 4, 1985.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	171.03	170.77	170.44	171.21	171.39	171.33	170.26	---	---	---	171.60	171.47
10	171.06	171.22	170.70	170.89	171.23	171.40	171.18	---	---	---	171.35	171.24
15	170.83	170.44	171.35	170.77	171.25	171.17	171.26	---	---	---	170.90	171.23
20	170.17	170.73	170.54	170.90	171.00	171.38	171.08	---	---	---	171.55	171.55
25	170.30	171.33	170.82	170.84	170.80	171.22	171.36	---	---	---	171.46	171.47
EOM	171.10	170.62	171.47	171.04	170.09	170.87	---	---	---	171.60	171.37	171.46
WTR YR 1997	HIGHEST		170.05	NOV 17	LOWEST		171.78	MAR 19				



LARAMIE COUNTY

412227104081402. Local number, 16-060-07bbb02. Local name, USGS southwest of Albin.

LOCATION.--Lat 41°22'27", long 104°08'14", in NW¹/₄ NW¹/₄ NW¹/₄ sec.7, T.16 N., R.60 W., Hydrologic Unit 1019001 ..
Owner: State of Wyoming.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Depth of well, 215 ft below land surface.

DATUM.--Elevation of land surface is 5,310 ft above sea level, from topographic map. Measuring point: top of casing, 1.10 ft above land surface.

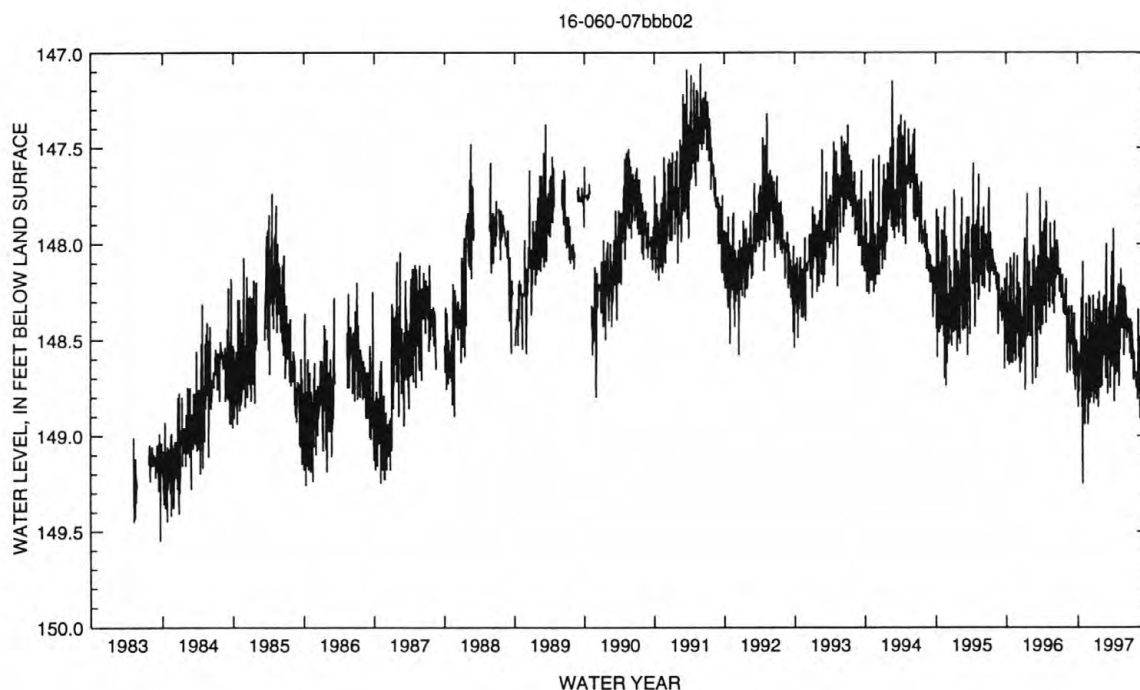
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 147.06 ft below land surface, May 30, 31, 1991; lowest, 149.55 ft below land surface, Sept. 20, 1983.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	148.62	148.57	148.28	148.77	148.68	148.78	147.94	148.52	148.28	148.59	148.76	148.73
10	148.61	148.76	148.41	148.44	148.46	148.44	148.47	148.35	148.49	148.51	148.77	148.64
15	148.56	148.31	148.54	148.29	148.49	148.35	148.39	148.43	148.41	148.71	148.48	148.64
20	148.32	148.59	148.27	148.30	148.40	148.32	148.32	148.40	148.39	148.68	148.85	149.06
25	148.37	148.84	148.48	148.46	148.10	148.64	148.66	148.22	148.57	148.67	148.72	148.78
EOM	148.88	148.49	148.70	148.35	148.00	148.19	148.32	148.39	148.41	148.69	148.78	148.87
WTR YR 1997	HIGHEST	147.92	APR 4	LOWEST	149.25	OCT 27						



LARAMIE COUNTY

411136104125301. Local number, 16-061-17aaa01. Local name, Laramie County #5.

LOCATION.--Lat 41°11'36", long 104°12'53", in NE¹/₄ NE¹/₄ NE¹/₄ sec.17, T.16 N., R.61 W., Hydrologic Unit 10190016.
Owner: State of Wyoming.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Depth of well, 285 ft below land surface.

DATUM.--Elevation of land surface is 5,451 ft above sea level, from topographic map. Measuring point: top of casing, 1.30 ft above land surface.

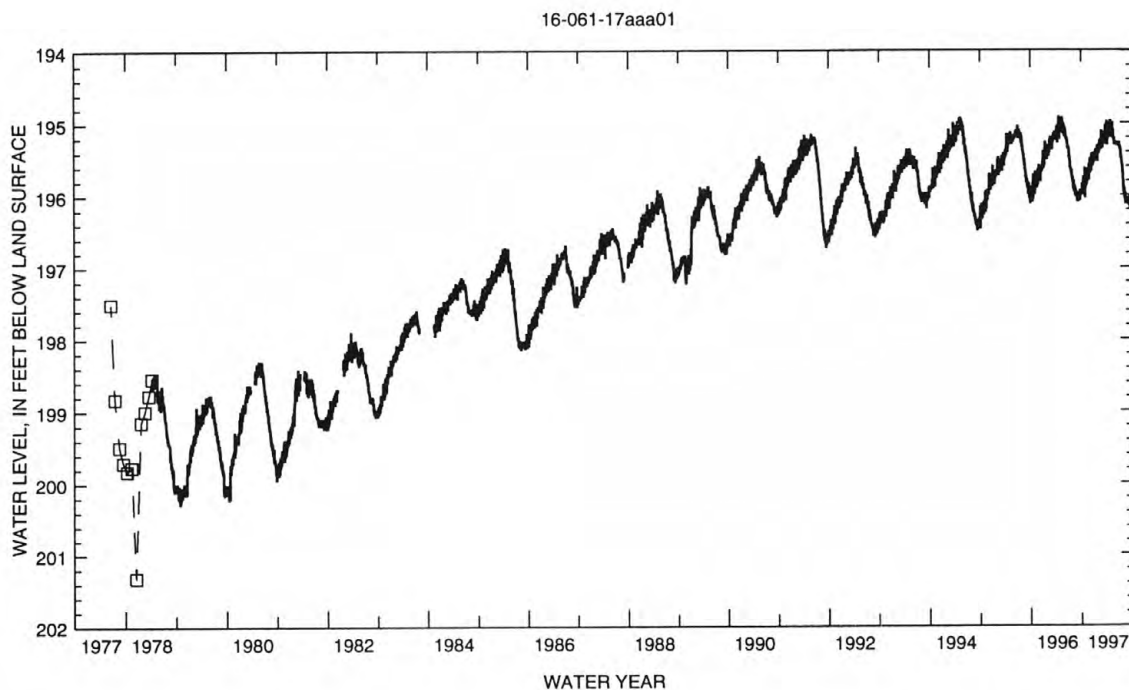
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 194.91 ft below land surface, Apr. 24, 1996; lowest, 201.32 ft below land surface, from hand-measured data, Dec. 16, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	195.97	195.84	195.49	195.54	195.37	195.33	195.09	195.12	195.29	195.34	195.94	196.09
10	195.86	195.84	195.54	195.49	195.29	195.19	195.21	195.08	195.32	195.37	196.04	196.05
15	195.85	195.72	195.43	195.44	195.26	195.18	195.21	195.15	195.29	195.45	196.00	196.02
20	195.89	195.73	195.44	195.36	195.26	195.14	195.12	195.21	195.28	195.55	196.07	196.12
25	195.80	195.71	195.42	195.32	195.11	195.24	195.15	195.22	195.29	195.62	196.06	196.11
EOM	195.91	195.69	195.46	195.34	195.25	195.02	195.13	195.30	195.28	195.88	196.07	196.14
WTR YR 1997	HIGHEST	194.98	APR 4	LOWEST	196.20	SEP 19						



LARAMIE COUNTY

412343104053101. Local number, 17-060-33cbb01. Local name, USGS south of Albin.

LOCATION.--Lat 41°23'43", long 104°05'31", in NW¹/₄ NW¹/₄ SW¹/₄ sec.33, T.17 N., R.60 W., Hydrologic Unit 10190016.
Owner: State of Wyoming.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Depth of well, 275 ft below land surface.

DATUM.--Elevation of land surface is 5,280 ft above sea level, from topographic map. Measuring point: top of casing, 1.00 ft above land surface.

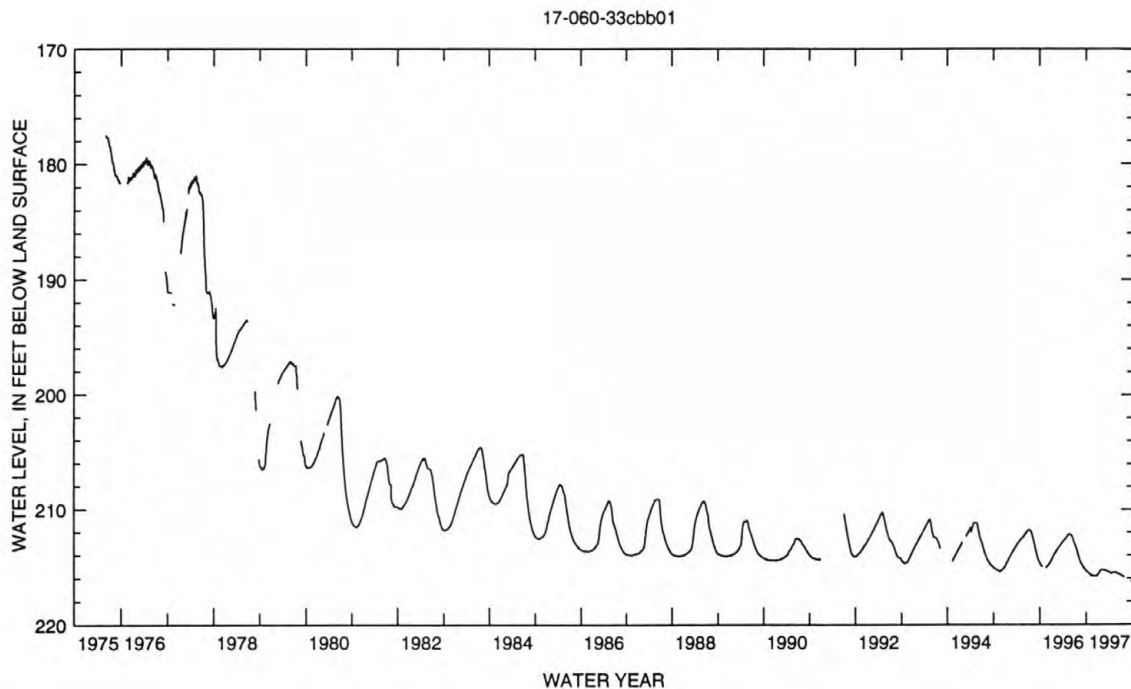
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 177.52 ft below land surface, May 30, 31, 1975; lowest, 216.38 ft below land surface, Sept. 29, 30, 1997.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	215.41	215.71	215.83	215.64	215.28	215.36	215.52	215.51	215.59	215.78	---	---
10	215.47	215.75	215.83	215.56	215.28	215.38	215.55	215.51	215.61	215.80	---	---
15	215.51	215.75	215.83	215.47	215.29	215.40	215.57	215.51	215.65	215.84	---	---
20	215.56	215.76	215.81	215.38	215.31	215.44	215.57	215.52	215.68	215.87	---	216.26
25	215.59	215.80	215.77	215.31	215.34	215.45	215.56	215.53	215.70	215.91	---	216.32
EOM	215.67	215.81	215.71	215.28	215.33	215.50	215.53	215.57	215.73	---	---	216.38
WTR YR 1997	HIGHEST		215.28	JAN 31, FEB 1-5, 8-14			LOWEST	216.38	SEP 30, 31			



LARAMIE COUNTY

412605104203001. Local number, 17-062-17ccc01. Local name, Laramie County #6A.

LOCATION.--Lat 41°26'05", long 104°20'30", in SW¹/₄ SW¹/₄ SW¹/₄ sec.17, T.17 N., R.62 W., Hydrologic Unit 10190016.
Owner: State of Wyoming.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Depth of well, 360 ft below land surface.

DATUM.--Elevation of land surface is 5,570 ft above sea level, from topographic map. Measuring point: top of casing, 1.80 ft above land surface.

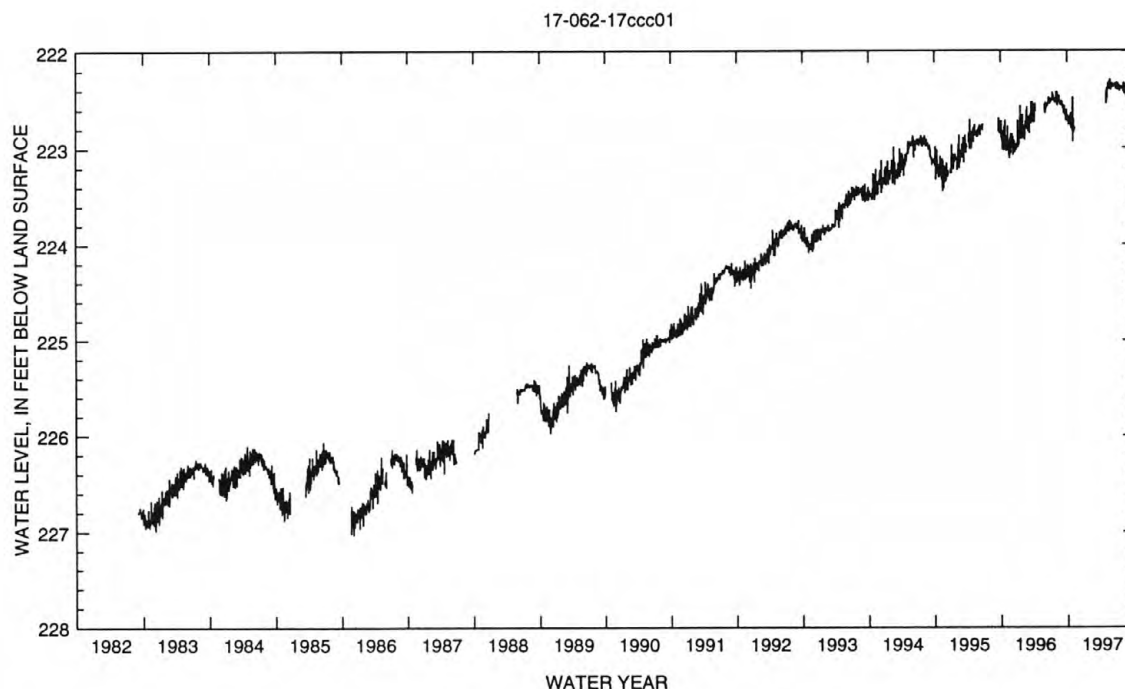
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 222.30 ft below land surface, May 24, 25, 1997; lowest, 227.03 ft below land surface, Dec. 4, 1985.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	222.70	222.71	---	---	---	---	---	222.42	222.34	222.36	222.42	222.46
10	222.75	222.79	---	---	---	---	---	222.39	222.38	222.36	222.44	222.47
15	222.74	---	---	---	---	---	---	222.39	222.35	222.41	222.35	222.48
20	222.65	---	---	---	---	---	---	222.38	222.34	222.39	222.47	222.57
25	222.74	---	---	---	---	---	---	222.30	222.40	222.37	222.45	222.61
EOM	222.48	---	---	---	---	---	---	222.35	222.33	222.39	222.45	222.64
WTR YR 1997	HIGHEST	222.30	MAY 24, 25	LOWEST	222.94	NOV 1						



LARAMIE COUNTY

412400104533901. Local number, 17-067-33baa01. Local name, MX-North.

LOCATION.--Lat 41°24'00", long 104°53'39", in NE¹/₄ NE¹/₄ NW¹/₄ sec.33, T.17 N., R.67 W., Hydrologic Unit 10190009.
Owner: Unknown.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Depth of well, 200 ft below land surface.

DATUM.--Elevation of land surface is 6,425 ft above sea level, from topographic map. Measuring point: top of casing, 1.40 ft above land surface.

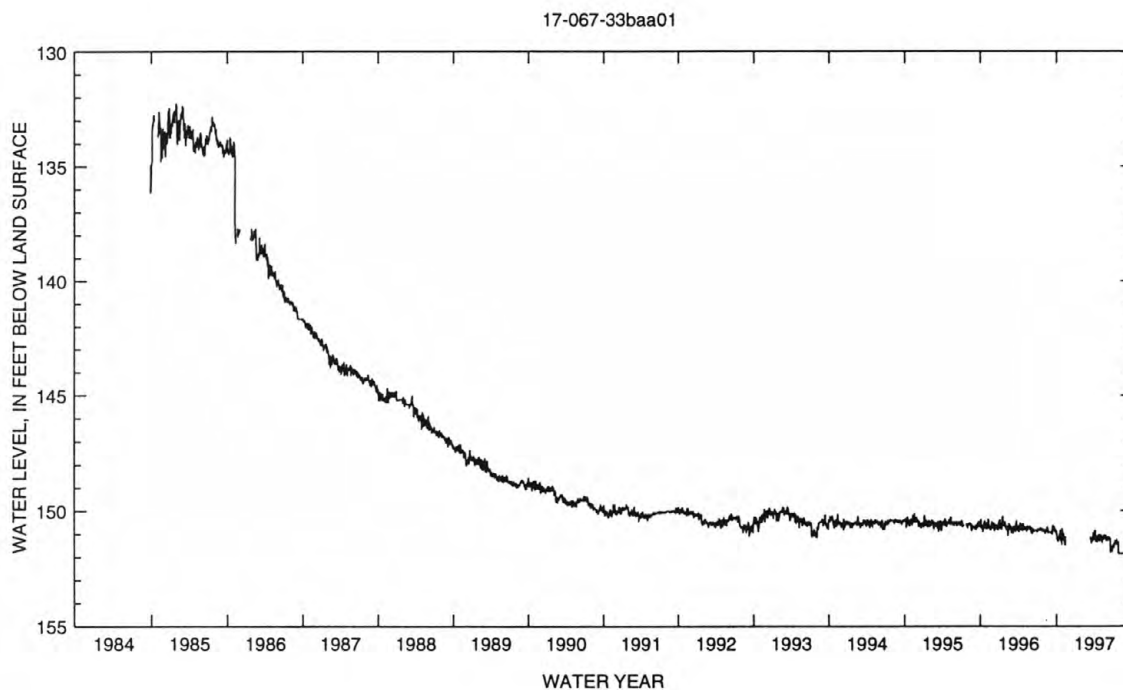
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

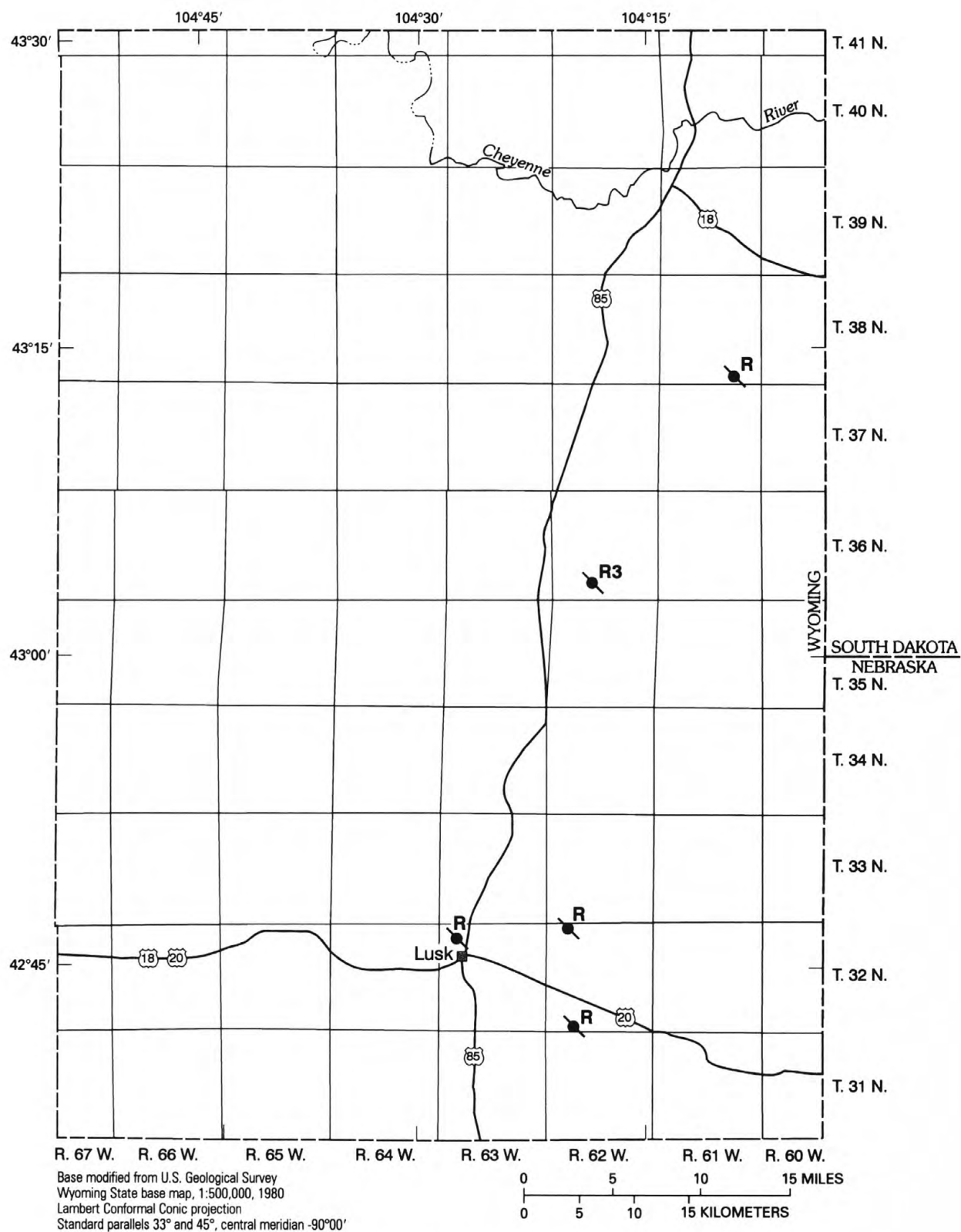
PERIOD OF RECORD.--1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 132.26 ft below land surface, Jan. 28, 1985; lowest, 151.87 ft below land surface, July 29, Aug 8, 11, 1997.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	151.20	151.01	---	---	---	---	150.87	151.26	151.15	151.55	151.86	151.84
10	151.27	151.20	---	---	---	---	151.20	151.26	151.21	151.32	151.86	151.08
15	151.08	---	---	---	---	151.19	151.19	151.24	151.18	151.44	151.86	151.05
20	150.89	---	---	---	---	151.27	151.12	151.15	151.69	151.38	151.85	151.22
25	151.01	---	---	---	---	151.33	151.29	151.08	151.78	151.37	151.85	151.05
EOM	151.19	---	---	---	---	151.03	151.10	151.30	151.50	151.86	151.85	151.32
WTR YR 1997	HIGHEST	150.78	OCT 29	LOWEST	151.87	JUL 29, AUG 8, 11						





EXPLANATION

- R2** OBSERVATION WELL WITH RECORDER--Number near well is number of wells at that location

Figure 16. Location of observation wells in Niobrara County, Wyoming.

NIOBRARA COUNTY

424709104194101. Local number, 32-062-05baa01. Local name, Niobrara County #1.

LOCATION.--Lat 42°47'09", long 104°19'41", in NE¹/4 NE¹/4 NW¹/4 sec.5, T.32 N., R.62 W., Hydrologic Unit 10150002.
Owner: State of Wyoming.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 177 ft below land surface.

DATUM.--Elevation of land surface is 4,970 ft above sea level, from topographic map. Measuring point: top of casing, 1.20 ft above land surface.

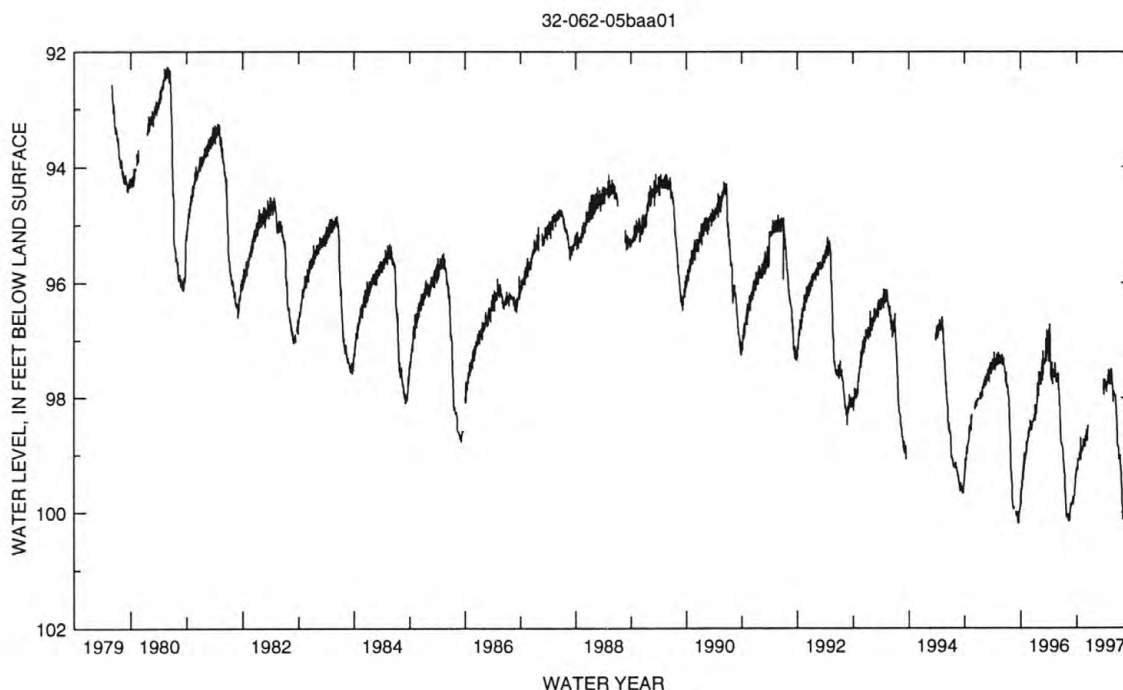
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 92.26 ft below land surface, June 1, 1980; lowest, 100.35 ft below land surface, Sept. 19, 1997.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	99.23	98.93	98.55	---	---	---	97.68	97.67	97.95	99.01	100.11	100.00
10	99.06	98.86	98.68	---	---	---	97.79	97.59	97.95	99.00	100.13	100.06
15	99.07	98.73	98.48	---	---	---	97.90	97.61	98.11	99.27	99.95	100.09
20	99.05	98.78	---	---	---	---	97.70	97.62	98.39	99.52	99.73	100.19
25	98.93	98.80	---	---	---	97.88	97.68	97.79	98.85	99.90	99.72	100.12
EOM	98.97	98.67	---	---	---	97.71	97.65	97.94	98.86	100.13	99.72	100.04
WTR YR 1997	HIGHEST	97.49	MAY 13	LOWEST	100.35	SEP 19						



NIOBRARA COUNTY

424244104202001. Local number, 32-062-32bbb01. Local name, Node Well.

LOCATION.--Lat 42°42'44", long 104°20'20", in NW¹/₄ NW¹/₄ NW¹/₄ sec.32, T.32 N., R.62 W., Hydrologic Unit 10150002.
Owner: Richard G. Pfister.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 485 ft below land surface.

DATUM.--Elevation of land surface is 4,898 ft above sea level, from topographic map. Measuring point: bottom of shelf, 3.00 ft above land surface.

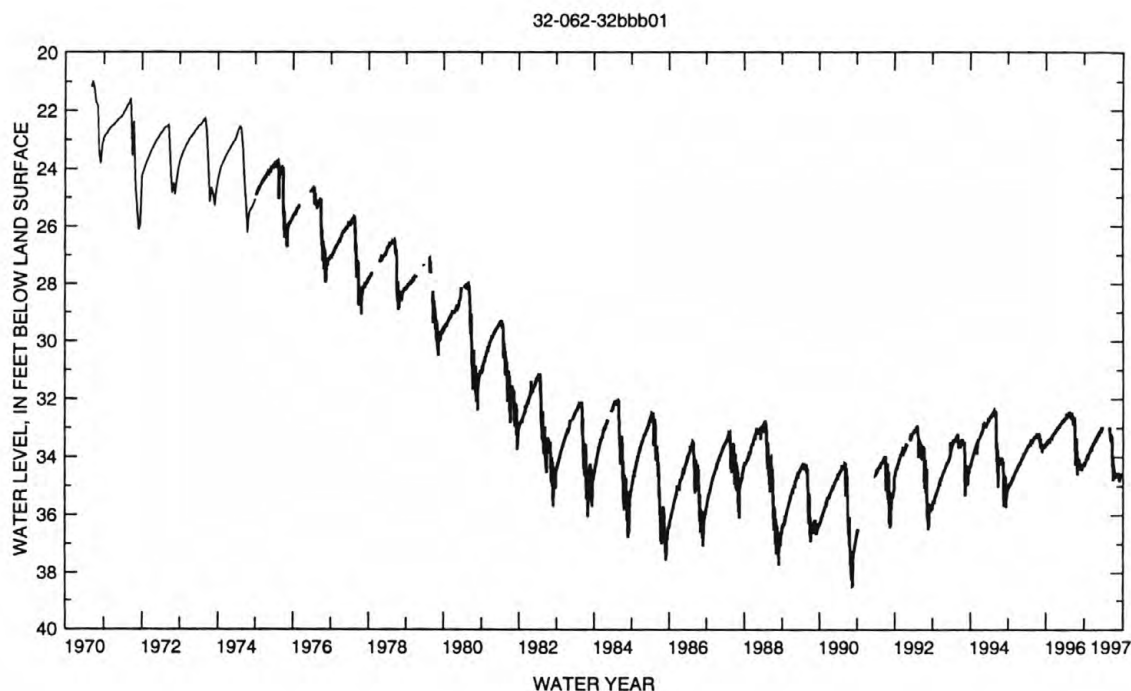
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 20.93 ft below land surface, June 23, 1970; lowest, 38.48 ft below land surface, Aug. 19, 1990.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	34.22	33.96	33.65	33.51	33.28	33.12	---	---	33.25	34.33	34.66	34.67
10	34.18	33.93	33.65	33.45	33.22	33.08	---	---	33.30	34.38	34.63	34.67
15	34.13	33.86	33.60	33.40	33.20	33.01	---	---	33.39	34.69	34.54	34.62
20	34.08	33.82	33.55	33.35	33.18	33.00	---	---	33.31	34.65	34.57	34.64
25	34.01	33.82	33.53	33.31	33.11	---	---	---	33.94	34.62	34.65	34.60
EOM	34.03	33.76	33.52	33.28	33.10	---	---	33.00	34.13	34.68	34.75	34.60
WTR YR 1997	HIGHEST	32.96	MAR 23	LOWEST	34.84	SEP 2						



NIOBRARA COUNTY

424544104260601. Local number, 32-063-08daa01. Local name, Niobrara County #2.

LOCATION.--Lat 42°45'44", long 104°26'06", in NE¹/₄ NE¹/₄ SE¹/₄ sec.8, T.32 N., R.63 W., Hydrologic Unit 10150002.
Owner: Mellie Wasserburger.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 178 ft below land surface.

DATUM.--Elevation of land surface is 4,995 ft above sea level, from topographic map. Measuring point: top of casing, 0.60 ft above land surface.

COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

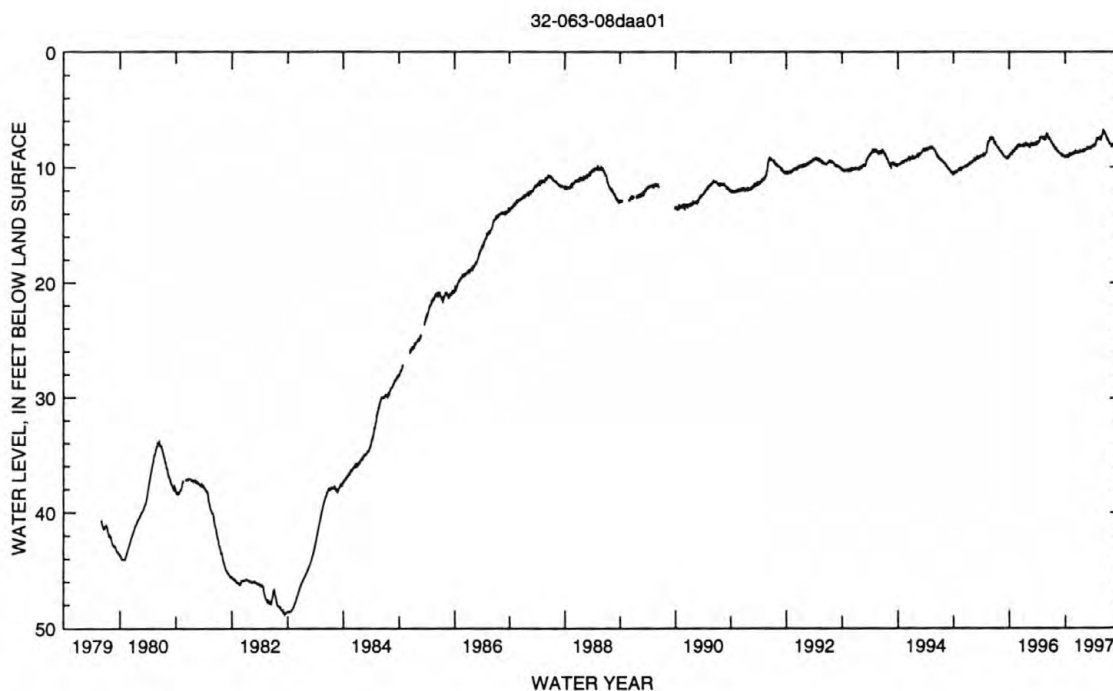
PERIOD OF RECORD.--1979 to September 1997, discontinued. Data are no longer collected as part of the U.S. Geological Survey cooperative program. The well may still exist and additional data may be available at other sources.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.76 ft below land surface, June 4, 5, 1997; lowest, 48.83 ft below land surface, Sept. 11, 1982.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.01	8.87	8.61	8.71	8.52	8.40	8.07	7.55	6.76	7.65	8.06	8.43
10	9.02	8.93	8.68	8.65	8.43	8.32	8.15	7.51	6.96	7.75	8.12	8.44
15	9.00	8.81	8.64	8.61	8.42	8.21	8.11	7.58	7.04	7.92	8.07	8.46
20	8.99	8.75	8.59	8.54	8.38	8.21	7.62	7.60	7.22	8.01	8.22	8.64
25	8.90	8.83	8.66	8.49	8.27	8.25	7.60	7.28	7.43	8.09	8.26	8.47
EOM	8.94	8.76	8.68	8.48	8.29	8.10	7.52	7.14	7.48	8.00	8.36	8.60

WTR YR 1997 HIGHEST 6.76 JUN 4, 5 LOWEST 9.11 OCT 2



NIOBRARA COUNTY

430422104183201. Local number, 36-062-28ab01. Local name, ETSI T-2.

LOCATION.--Lat 43°04'22", long 104°18'32", in NW¹/4 NE¹/4 sec.28, T.36 N., R.62 W., Hydrologic Unit 10120104.
Owner: Unknown.

AQUIFER.--Madison Limestone.

WELL CHARACTERISTICS.--Depth of well, 3,120 ft below land surface.

DATUM.--Elevation of land surface is 4,244 ft above sea level, from topographic map. Measuring point: top of casing, at land surface.

REMARKS.--Data from 1974 through March 1980 are unavailable electronically. Data available in reports in the District office.

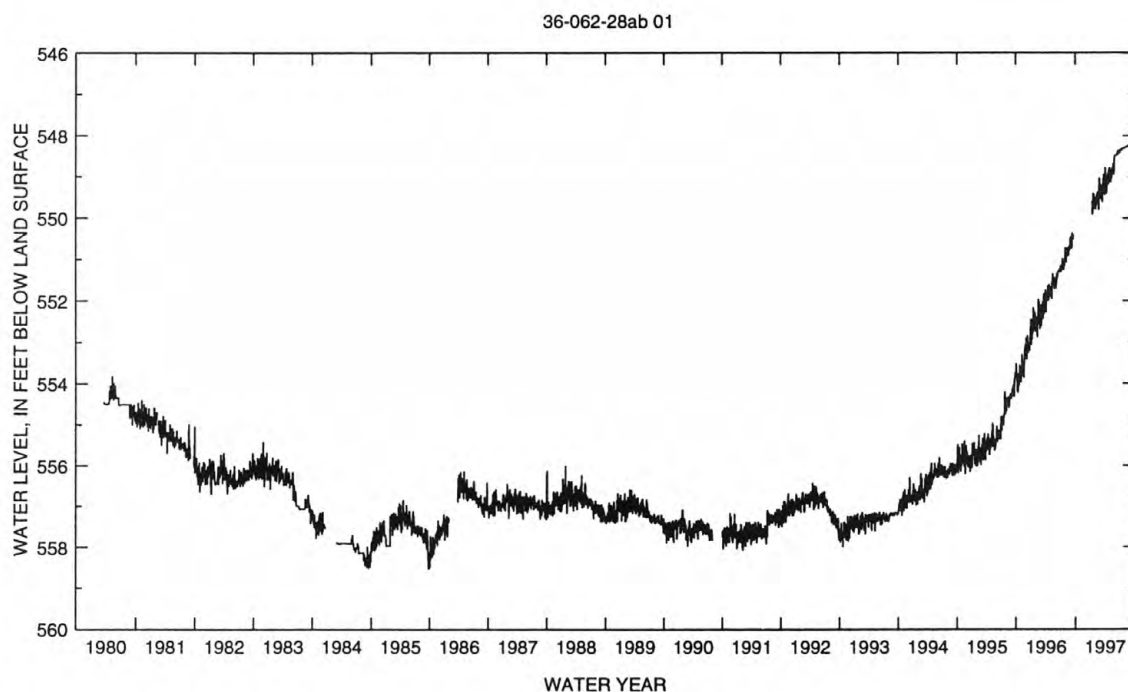
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 547.70 ft below land surface, Sept. 27, 1997; lowest, 558.54 ft below land surface, Sept. 29, 1985.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	549.73	549.53	548.78	549.05	548.48	548.36	548.29	548.20
10	---	---	---	---	549.52	549.39	549.29	549.07	548.48	548.33	548.27	547.93
15	---	---	---	549.59	549.48	549.25	549.18	549.03	548.46	548.32	548.27	547.72
20	---	---	---	549.48	549.44	549.28	548.91	548.85	548.37	548.31	548.25	548.13
25	---	---	---	549.52	549.40	549.37	549.16	548.69	548.45	548.30	548.24	547.88
EOM	---	---	---	549.49	549.04	549.05	548.90	548.51	548.35	548.30	548.22	547.88
WTR YR 1997	HIGHEST	547.70	SEP 27	LOWEST	549.91	JAN 16						



NIOBRARA COUNTY

430422104183202. Local number, 36-062-28ab02. Local name, ETSI O-2.

LOCATION.--Lat 43°04'22", long 104°18'32", in NW¹/4 NE¹/4 sec.28, T.36 N., R.62 W., Hydrologic Unit 10120104.
Owner: Energy Transportation Systems, Inc.

AQUIFER.--Lakota Formation.

WELL CHARACTERISTICS.--Depth of well, 505 ft below land surface.

DATUM.--Elevation of land surface is 4,247 ft above sea level, from topographic map. Measuring point: top of casing, at land surface.

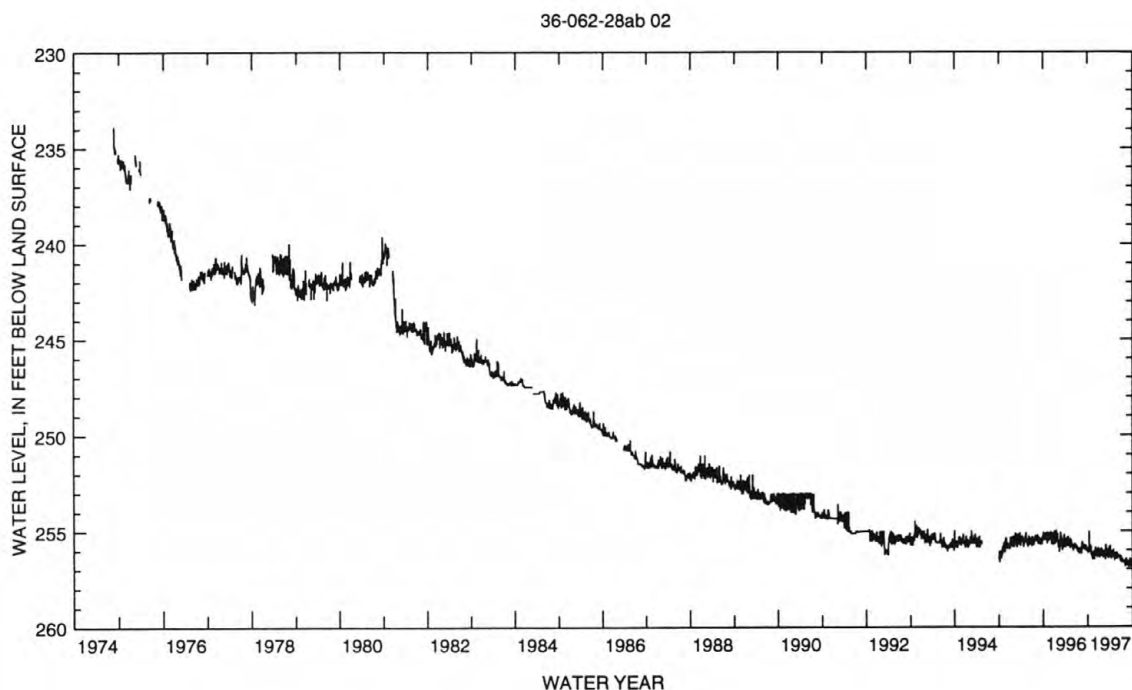
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 233.87 ft below land surface, Aug. 19, 1974; lowest, 256.92 ft below land surface, Sept. 3, 1997.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	256.06	256.17	255.89	256.16	256.41	256.28	255.79	256.29	256.24	256.67	256.85	256.82
10	256.10	256.39	256.00	256.15	256.26	256.23	256.35	256.50	256.41	256.48	256.69	256.72
15	255.97	256.17	256.28	256.02	256.18	256.11	256.23	256.33	256.31	256.64	256.48	256.48
20	255.76	256.06	256.01	256.01	256.07	256.18	256.10	256.31	256.36	256.65	256.74	256.79
25	255.78	256.41	256.23	256.02	256.14	256.36	256.31	256.16	256.52	256.63	256.73	256.77
EOM	256.22	256.16	256.12	256.05	255.76	255.98	256.11	256.35	256.36	256.60	256.68	256.68
WTR YR 1997	HIGHEST	255.01	OCT 14	LOWEST	256.92	SEP 3						



NIOBRARA COUNTY

430421104200701. Local number, 36-062-28bbd01. Local name, ETSI T-1.

LOCATION.--Lat 43°04'21", long 104°20'07", in SE¹/₄ NW¹/₄ NW¹/₄ sec.28, T.36 N., R.62 W., Hydrologic Unit 10120104.
Owner: Energy Transportation Systems, Inc.

AQUIFER.--Minnelusa Formation.

WELL CHARACTERISTICS.--Depth of well, 1,510 ft below land surface.

DATUM.--Elevation of land surface is 5,200 ft above sea level, from topographic map. Measuring point: top of casing, 0.45 ft above land surface.

REMARKS.--Well was out of service most of the 1997 water year because of measuring equipment malfunctions.

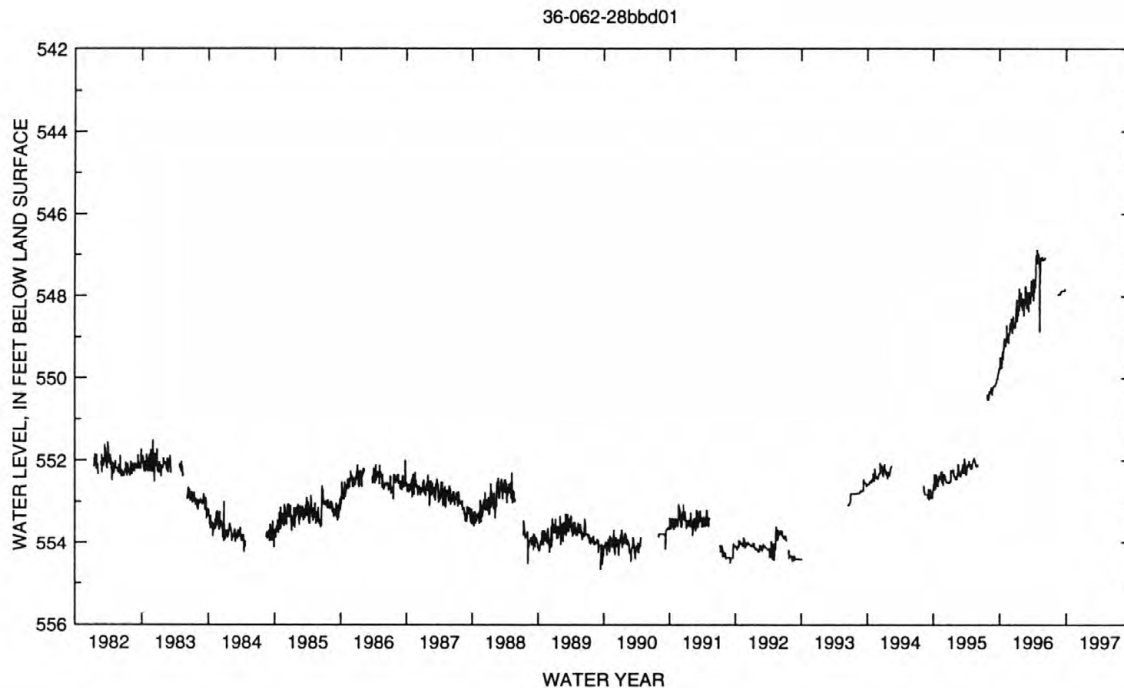
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 544.11 ft below land surface, Sept. 10-30, 1997; lowest, 554.67 ft below land surface, Sept. 12, 1989.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	544.11
15	---	---	---	---	---	---	---	---	---	---	---	544.11
20	---	---	---	---	---	---	---	---	---	---	---	544.11
25	---	---	---	---	---	---	---	---	---	---	---	544.11
EOM	---	---	---	---	---	---	---	---	---	---	---	544.11
WTR YR 1997	HIGHEST	544.11	SEP 10-30	LOWEST	544.11	SEP 10-30						



GROUND-WATER LEVELS

NIOBRARA COUNTY

431321104090001. Local number, 38-061-35dca01. Local name, ETSI M-1.

LOCATION.--Lat 43°13'21", long 104°09'00", in NE¹/4 SW¹/4 SE¹/4 sec.35, T.38 N., R.61 W., Hydrologic Unit 10120104.
Owner: Energy Transportation Systems, Inc.

AQUIFER.--Madison Limestone..

WELL CHARACTERISTICS.--Depth of well, 5,160 ft below land surface.

DATUM.--Elevation of land surface is 5,100 ft above sea level, from topographic map. Measuring point: top of casing, 2.25 ft above land surface.

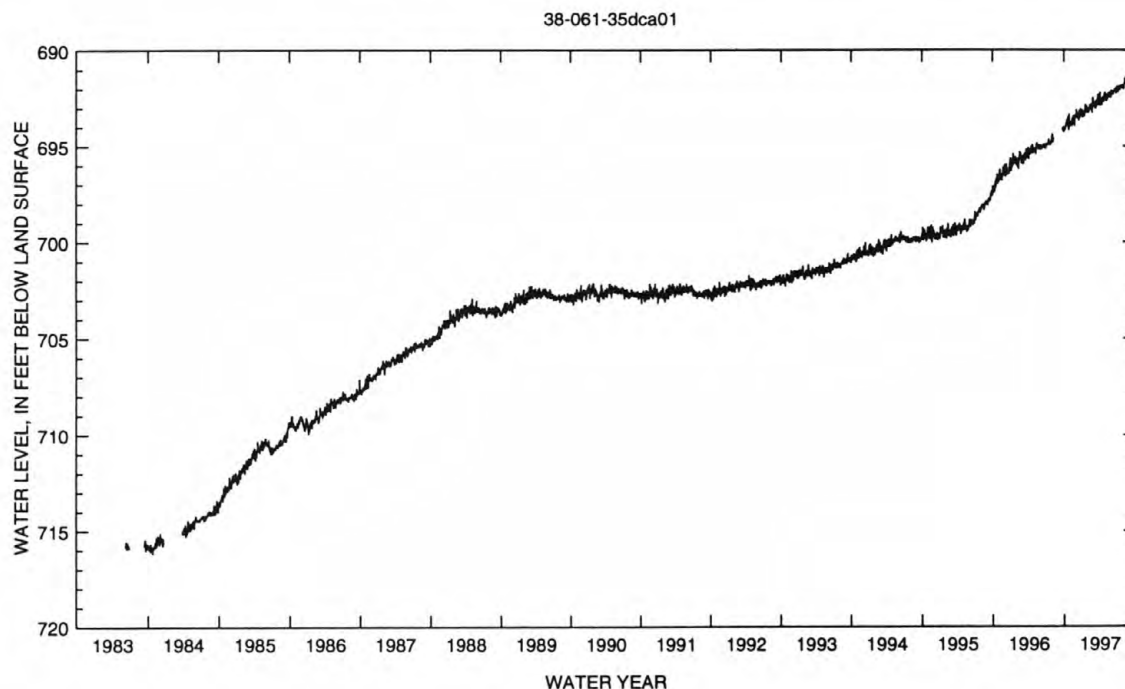
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1983 to Sept. 9, 1997, discontinued (converted to stock well).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 691.39 ft below land surface, Aug. 15, 1997; lowest, 716.20 ft below land surface, Oct. 25, 1983.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	694.06	693.74	693.10	693.41	693.22	692.96	692.23	692.49	692.12	692.15	691.92	691.46
10	694.03	693.87	693.25	693.32	693.02	692.80	692.82	692.61	692.26	691.93	691.71	---
15	693.79	693.58	693.46	693.17	692.96	692.67	692.63	692.47	692.10	692.03	691.39	---
20	693.60	693.40	693.13	692.95	692.85	692.68	692.42	692.29	692.02	691.93	691.68	---
25	693.45	693.77	693.34	693.03	692.85	692.85	692.65	692.17	692.24	691.83	691.48	---
EOM	694.00	693.47	693.31	693.00	692.47	692.47	692.34	692.28	691.93	691.87	691.41	---
WTR YR 1997	HIGHEST	691.39	AUG 15, 1997	LOWEST	694.26	OCT 2						



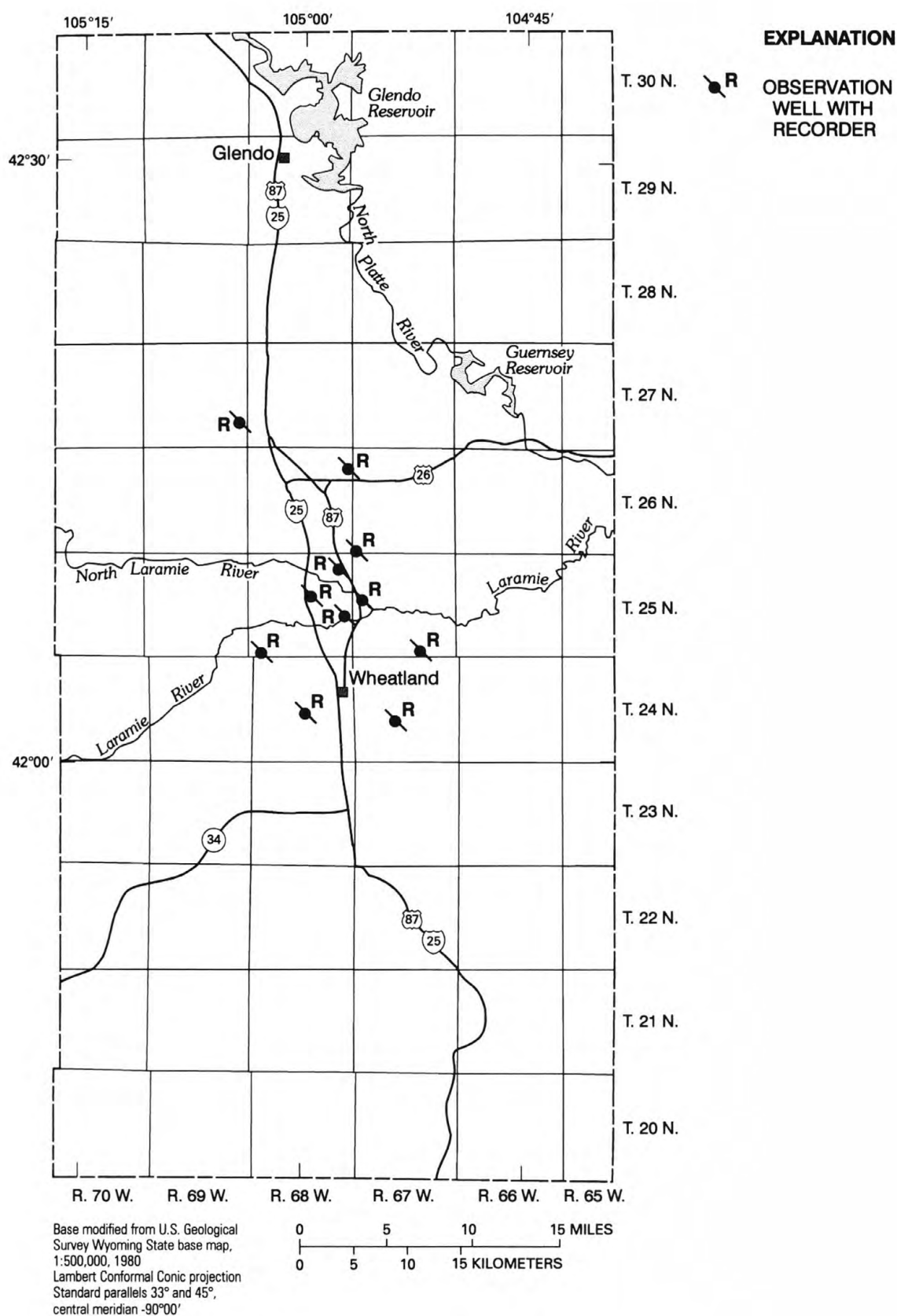


Figure 17. Location of observation wells in Platte County, Wyoming.

GROUND-WATER LEVELS

PLATTE COUNTY

420237104532101. Local number, 24-067-21aab01. Local name, Ed Preuit.

LOCATION.--Lat 42°02'37", long 104°53'21", in NW¹/₄ NE¹/₄ NE¹/₄ sec.21, T.24 N., R.67 W., Hydrologic Unit 10180011.
Owner: Edward B. Preuit.

AQUIFER.--Holocene Alluvium.

WELL CHARACTERISTICS.--Depth of well, 41.0 ft below land surface.

DATUM.--Elevation of land surface is 4,586 ft above sea level, from levels. Measuring point: top of casing, 1.40 ft above land surface.

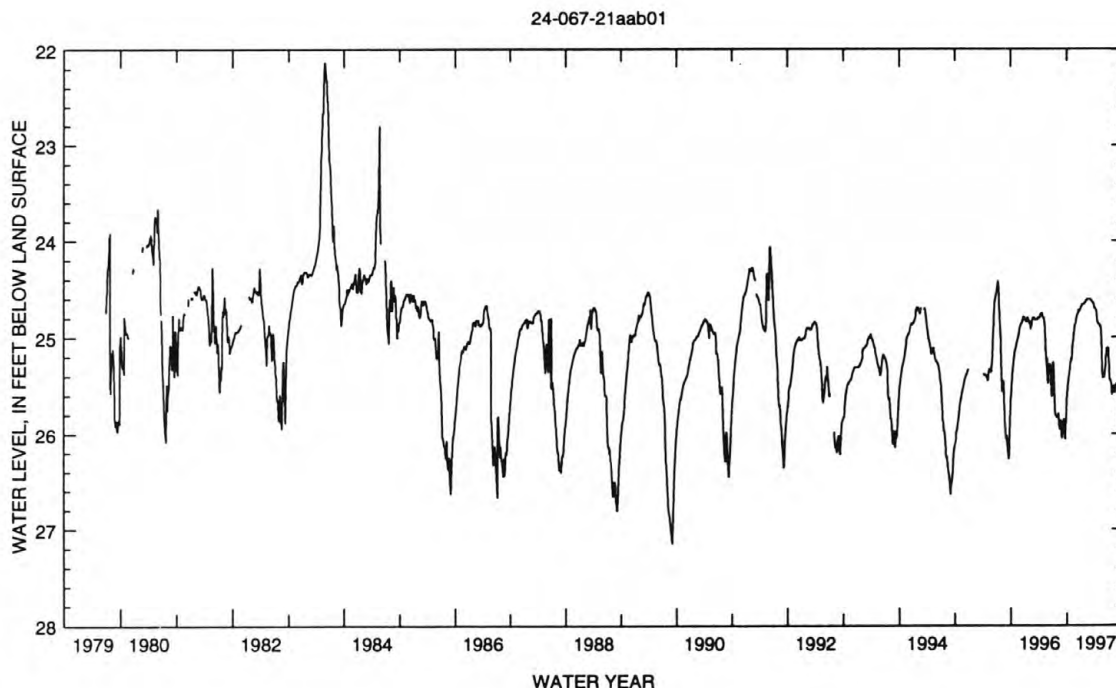
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1979 to September 1997, discontinued. Data are no longer collected as part of the U.S. Geological Survey cooperative program. The well may still exist and additional data may be available at other sources.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 21.93 ft below land surface, from hand-measured data, May 24, 1979; lowest, 27.15 ft below land surface, Sept. 3, 1989.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.55	25.14	24.77	24.68	24.62	24.61	24.71	24.90	25.34	25.44	25.57	25.80
10	25.46	25.04	24.76	24.66	24.61	24.63	24.74	24.90	25.19	25.44	25.56	25.99
15	25.39	24.97	24.72	24.66	24.61	24.64	24.84	25.08	25.12	25.47	25.50	26.04
20	25.32	24.88	24.72	24.66	24.61	24.65	24.85	25.39	25.11	25.59	25.49	26.07
25	25.26	24.87	24.73	24.65	24.61	24.66	24.87	25.42	25.11	25.55	25.48	25.90
EOM	25.25	24.83	24.69	24.62	24.61	24.70	24.87	25.40	25.24	25.50	25.63	25.68
WTR YR 1997	HIGHEST		24.61	FEB 7-MAR 5		LOWEST	26.07	SEP 18				



GROUND-WATER LEVELS

93

PLATTE COUNTY

420246104590302. Local number, 24-068-22aab02. Local name, Platte County #1A.

LOCATION.--Lat 42°02'46", long 104°59'03", in NW¹/₄ NE¹/₄ NE¹/₄ sec.22, T.24 N., R.68 W., Hydrologic Unit 10180011.
Owner: State of Wyoming.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 200 ft below land surface.

DATUM.--Elevation of land surface is 4,860 ft above sea level, from topographic map. Measuring point: top of casing, 1.35 ft above land surface.

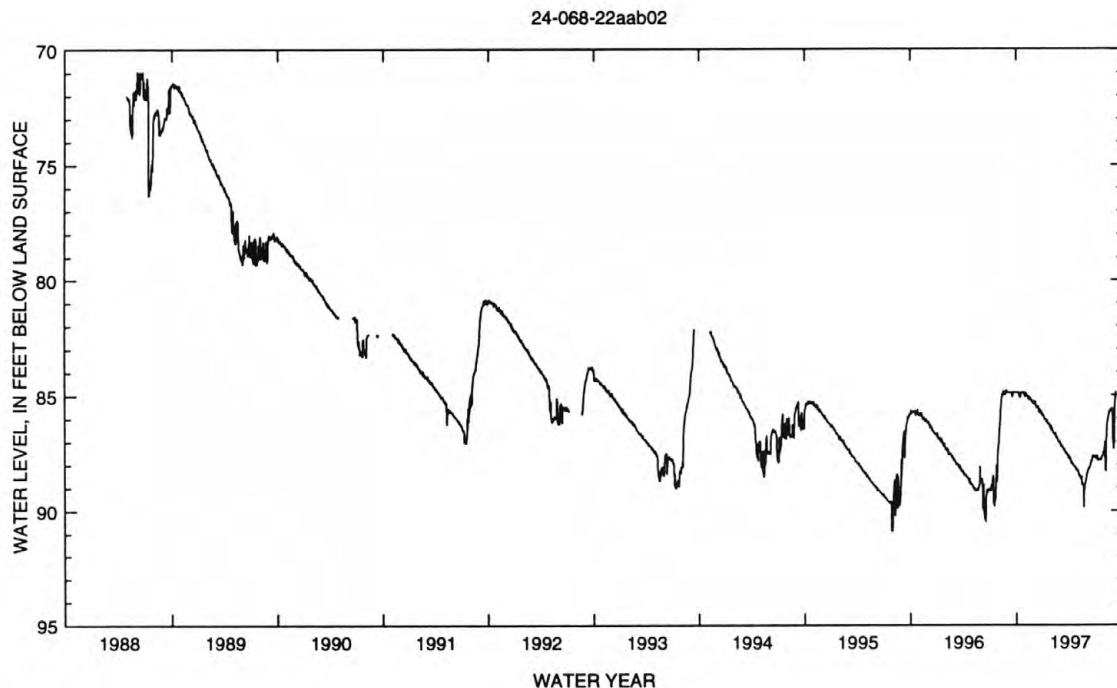
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 70.95 ft below land surface, June 5, 1988; lowest, 90.92 ft below land surface, Aug. 1, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	84.89	84.99	85.30	86.06	86.66	87.24	87.80	88.47	88.19	87.64	86.78	84.99
10	84.99	85.07	85.49	86.10	86.69	87.27	87.97	88.57	88.08	87.82	86.04	---
15	85.08	85.11	85.53	86.19	86.79	87.35	88.07	88.88	87.86	87.77	85.69	---
20	84.90	85.20	85.60	86.24	86.95	87.49	88.08	89.87	87.63	87.68	85.63	83.44
25	84.90	85.32	85.72	86.34	86.98	87.61	88.24	88.81	87.68	87.47	85.58	83.28
EOM	84.98	85.39	85.91	86.47	87.09	87.68	88.32	88.38	87.68	87.02	86.19	83.26
WTR YR 1997	HIGHEST		83.25	SEP 27, 28		LOWEST		89.87	MAY 20			



PLATTE COUNTY

420718104553901. Local number, 25-067-19dda01. Local name, Ed Wilhelm.

LOCATION.--Lat 42°07'18", long 104°55'39", in NE¹/₄ SE¹/₄ SE¹/₄ sec.19, T.25 N., R.67 W., Hydrologic Unit 10180011.
Owner: Ed Wilhelm.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 760 ft below land surface.

DATUM.--Elevation of land surface is 4,540 ft above sea level, from topographic map. Measuring point: top of casing, 1.50 ft above land surface.

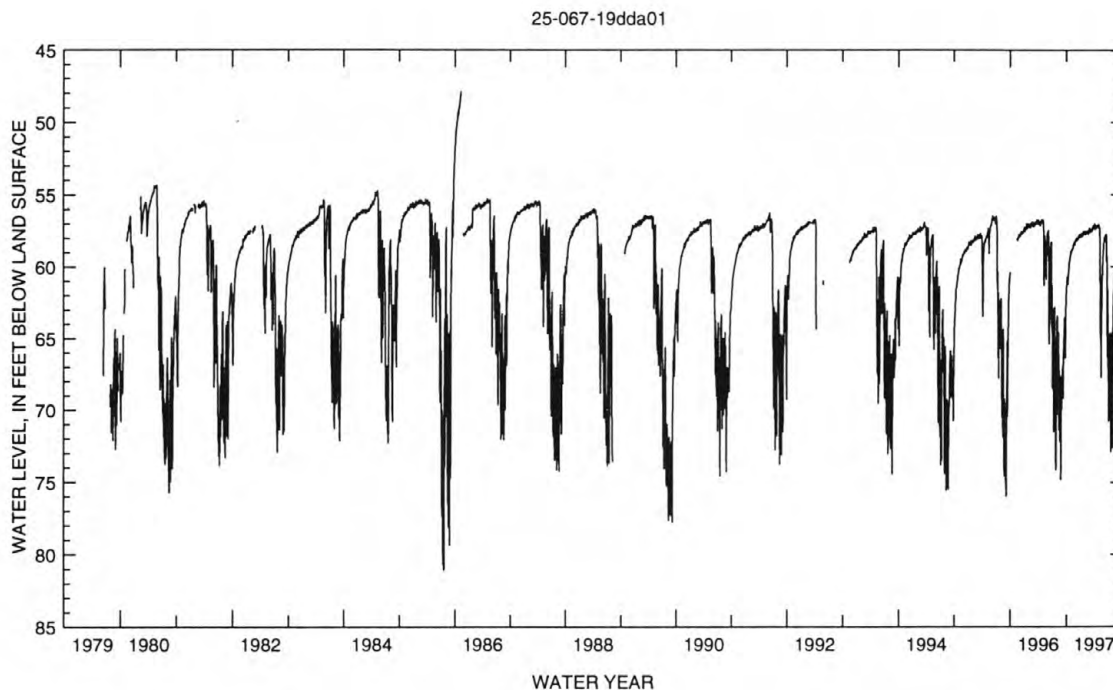
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 47.88 ft below land surface, Nov. 8, 1985; lowest, 81.04 ft below land surface, July 19, 1985.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	60.89	58.85	58.03	57.96	57.75	57.66	57.10	57.35	58.00	67.50	61.67	64.16
10	61.16	58.75	58.02	57.81	57.60	57.55	57.33	62.76	57.93	66.39	60.33	61.77
15	60.28	58.51	58.07	57.68	57.59	57.41	57.25	65.77	57.80	66.18	59.54	64.26
20	59.66	58.39	57.84	57.61	57.53	57.34	57.13	62.94	59.61	66.78	63.90	61.55
25	59.25	58.45	57.86	57.62	57.45	57.39	57.27	60.42	66.32	65.36	73.24	61.68
EOM	59.14	58.28	57.92	57.57	57.32	57.18	57.17	58.53	67.05	67.26	71.83	61.63
WTR YR 1997	HIGHEST		57.08	APR 4	LOWEST		73.24	AUG 25				



PLATTE COUNTY

420524104530201. Local number, 25-067-34ccd01. Local name, Platte County #2.

LOCATION.--Lat 42°05'24", long 104°53'02", in SE¹/₄ SW¹/₄ SW¹/₄ sec.34, T.25 N., R.67 W., Hydrologic Unit 10180011.
Owner: State of Wyoming.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 380 ft below land surface.

DATUM.--Elevation of land surface is 4,620 ft above sea level, from topographic map. Measuring point: top of casing, 1.60 ft above land surface.

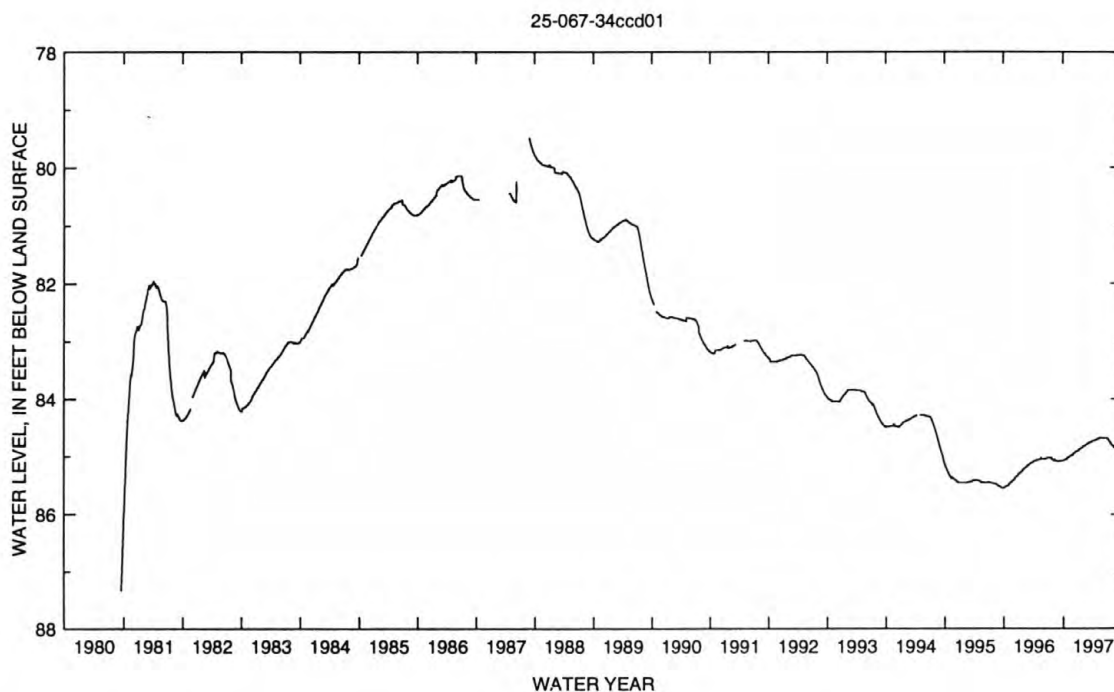
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 79.49 ft below land surface, Aug. 27, 28, 29, 1987; lowest, 87.35 ft below land surface, Sept. 16, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	85.06	85.00	84.94	84.89	84.82	84.77	84.73	84.69	84.68	84.70	84.82	84.85
10	85.06	84.99	84.93	84.87	84.82	84.76	84.72	84.68	84.68	84.73	84.82	84.84
15	85.05	84.99	84.92	84.87	84.80	84.75	84.72	84.68	84.68	84.76	84.83	84.84
20	85.04	84.97	84.91	84.85	84.79	84.75	84.71	84.67	84.68	84.77	84.84	84.84
25	85.02	84.97	84.91	84.85	84.79	84.74	84.71	84.68	84.68	84.79	84.84	84.84
EOM	85.02	84.96	84.90	84.82	84.78	84.73	84.69	84.68	84.69	84.81	84.84	84.82
WTR YR 1997	HIGHEST		84.67	MAY 17-23		LOWEST	85.07	OCT 1-3				



GROUND-WATER LEVELS

PLATTE COUNTY

420859104565001. Local number, 25-068-12dda01. Local name, Platte County #4.

LOCATION.--Lat 42°08'59", long 104°56'50", in NE¹/₄ SE¹/₄ SE¹/₄ sec.12, T.25 N., R.68 W., Hydrologic Unit 10180011.
Owner: State of Wyoming.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 100 ft below land surface.

DATUM.--Elevation of land surface is 4,510 ft above sea level, from topographic map. Measuring point: top of casing, 1.60 ft above land surface.

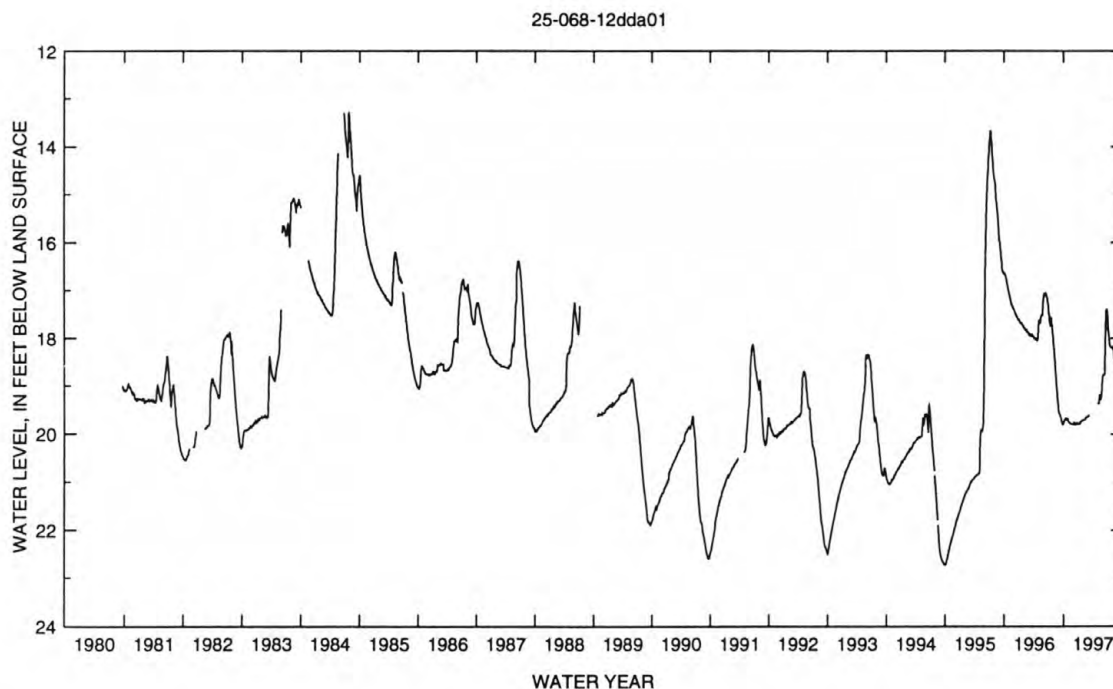
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.30 ft below land surface, June 25, July 25, 26, 1984;
lowest, 22.73 ft below land surface, Oct. 3, 4, 5, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.73	19.75	19.77	19.79	19.70	19.62	---	19.36	18.76	17.81	18.21	18.82
10	19.70	19.77	19.77	19.78	19.69	19.61	---	19.32	18.76	17.98	18.37	19.07
15	19.68	19.78	19.79	19.75	19.69	---	---	19.18	18.54	18.17	18.42	19.29
20	19.67	19.78	19.77	19.73	19.65	---	---	19.27	17.52	18.18	18.43	19.41
25	19.68	19.79	19.76	19.72	19.65	---	---	19.17	17.40	18.20	18.43	19.74
EOM	19.73	19.78	19.79	19.70	19.63	---	19.36	18.83	17.48	18.18	18.58	19.96
WTR YR 1997	HIGHEST	17.40	JUN 23-29	LOWEST	19.96	SEP 30						



PLATTE COUNTY

420840105000401. Local number, 25-068-15bbd01. Local name, Platte County #6.

LOCATION.--Lat 42°08'40", long 105°00'04", in SE¹/₄ NW¹/₄ NW¹/₄ sec.15, T.25 N., R.68 W., Hydrologic Unit 10180011.
Owner: State of Wyoming.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 220 ft below land surface.

DATUM.--Elevation of land surface is 4,640 ft above sea level, from topographic map. Measuring point: top of casing, 1.30 ft above land surface.

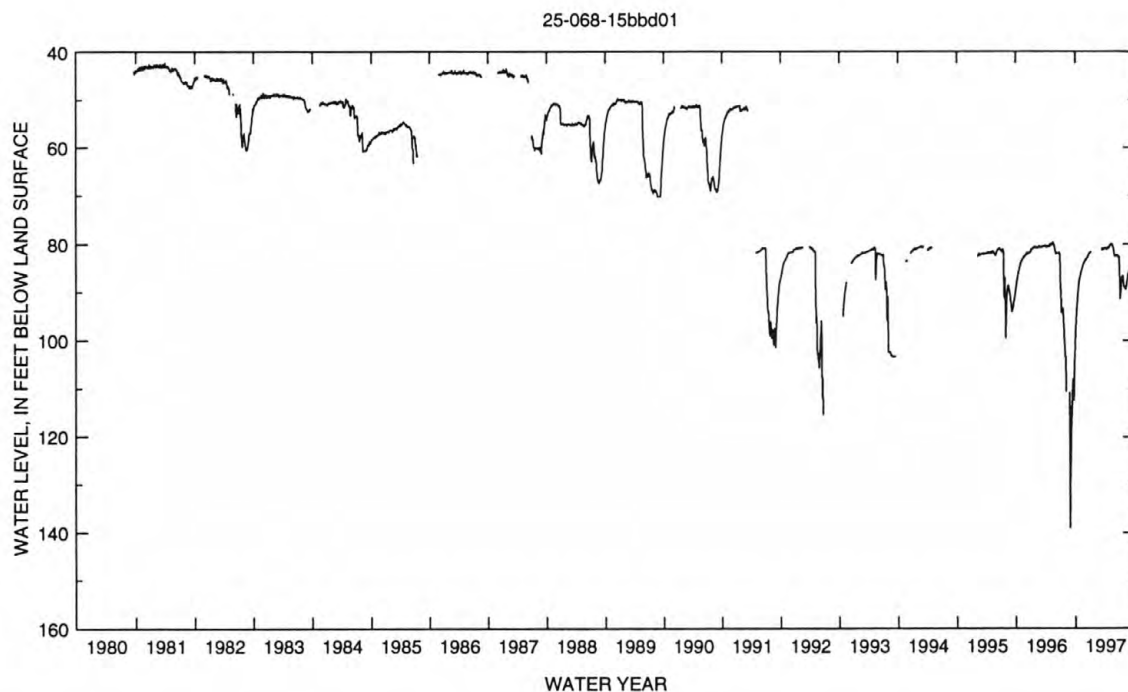
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 42.50 ft below land surface, Feb. 9, Mar. 30, 1981; lowest, 139.04 ft below land surface, Aug. 29, 1996.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	96.97	85.99	83.11	81.75	---	---	80.76	80.26	82.52	91.46	89.35	85.71
10	93.75	85.35	82.90	---	---	---	80.92	79.97	82.38	88.75	89.20	86.59
15	91.25	84.71	82.76	---	---	81.11	80.93	80.07	82.25	87.13	87.98	86.68
20	89.37	84.20	82.26	---	---	81.08	80.84	80.53	82.44	86.62	86.80	86.26
25	87.71	83.90	81.96	---	---	81.05	80.83	81.20	82.75	87.79	86.08	85.82
EOM	86.79	83.50	81.82	---	---	80.85	80.40	82.41	84.69	88.82	85.54	85.69
WTR YR 1997	HIGHEST		79.95	MAY 13	LOWEST		100.30	OCT 1				



PLATTE COUNTY

420748104565001. Local number, 25-068-24aad01. Local name, Platte County #3.

LOCATION.--Lat 42°07'48", long 104°56'50", in SE¹/₄ NE¹/₄ NE¹/₄ sec.24, T.25 N., R.68 W., Hydrologic Unit 10180011.
Owner: State of Wyoming.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 240 ft below land surface.

DATUM.--Elevation of land surface is 4,560 ft above sea level, from topographic map. Measuring point: top of casing, 0.55 ft above land surface.

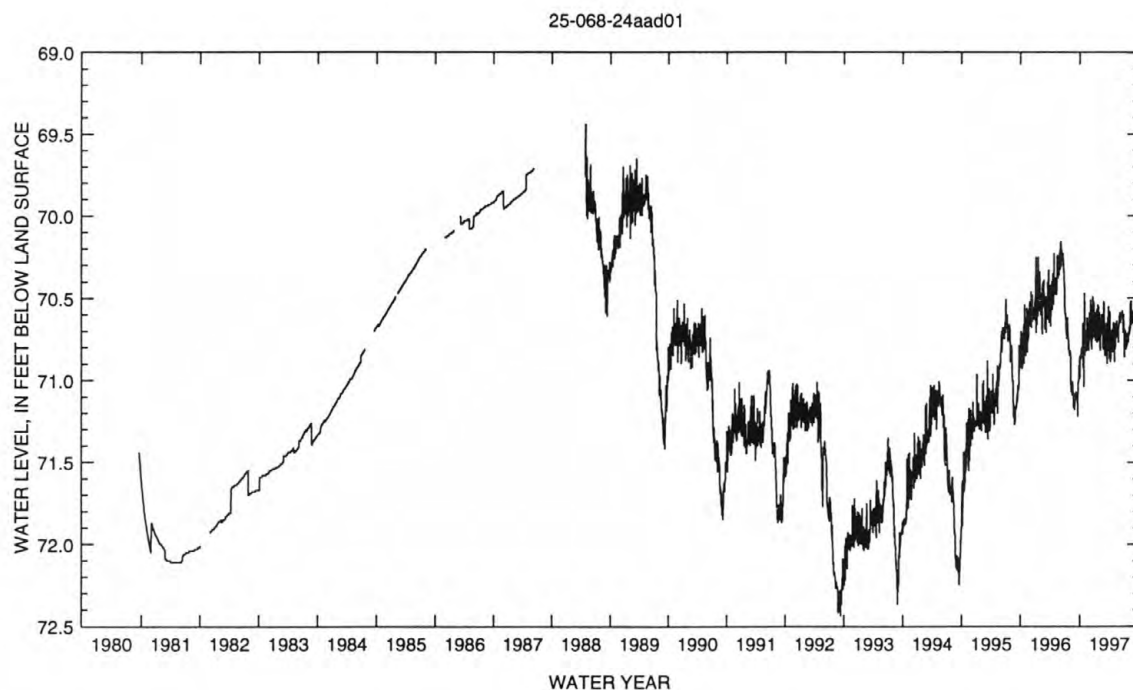
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 69.44 ft below land surface, Apr. 28, 29, 1988; lowest, 72.44 ft below land surface, Sept. 10, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	70.85	70.76	70.51	70.76	70.75	70.85	70.59	70.78	70.59	70.80	70.71	70.59
10	70.81	70.77	70.60	70.63	70.66	70.72	70.87	70.71	70.65	70.70	70.69	70.52
15	70.80	70.62	70.55	70.57	70.66	70.69	70.77	70.74	70.60	70.80	70.52	70.50
20	70.68	70.69	70.49	70.55	70.62	70.70	70.70	70.69	70.58	70.77	70.65	70.47
25	70.65	70.78	70.52	70.62	70.52	70.82	70.82	70.67	70.71	70.71	70.58	70.57
EOM	70.85	70.73	70.65	70.59	70.53	70.64	70.77	70.65	70.65	70.71	70.62	70.79
WTR YR 1997	HIGHEST		70.45	SEP 21	LOWEST		71.04	OCT 27				



PLATTE COUNTY

420613105024401. Local number, 25-068-31aaa01. Local name, Platte County #7.

LOCATION.--Lat 42°06'13", long 105°02'44", in NE¹/₄ NE¹/₄ NE¹/₄ sec.31, T.25 N., R.68 W., Hydrologic Unit 10180011.
Owner: State of Wyoming.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 400 ft below land surface.

DATUM.--Elevation of land surface is 4,633 ft above sea level, from topographic map. Measuring point: top of casing, 1.50 ft above land surface.

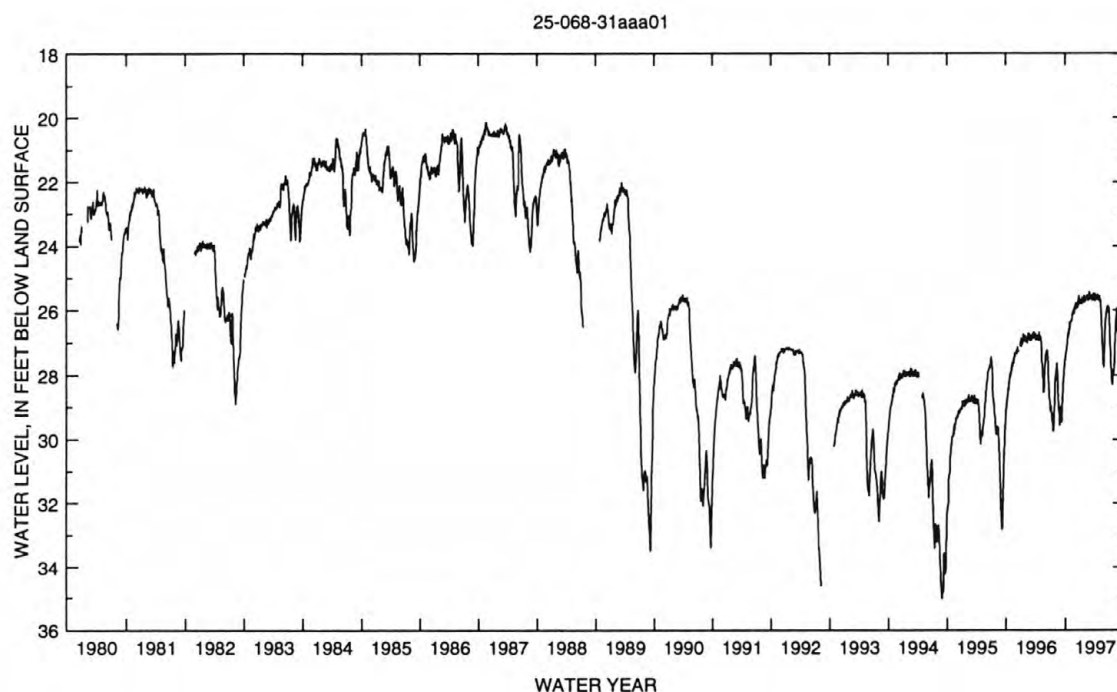
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 20.13 ft below land surface, Nov. 19, 1986; lowest, 35.04 ft below land surface, Aug. 30, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	27.35	26.34	25.76	25.81	25.67	25.67	25.51	25.74	26.44	27.04	26.88	27.28
10	27.17	26.28	25.80	25.72	25.59	25.59	25.64	25.98	26.14	27.68	26.31	26.37
15	26.91	26.12	25.82	25.65	25.58	25.53	25.63	26.64	25.97	28.18	25.99	26.18
20	26.75	26.02	25.70	25.62	25.57	25.56	25.52	27.21	25.89	28.22	26.65	26.27
25	26.56	26.06	25.74	25.60	25.50	25.65	25.67	27.64	26.01	27.85	26.79	25.82
EOM	26.52	25.97	25.78	25.58	25.44	25.53	25.62	27.23	26.18	27.68	27.33	25.57
WTR YR 1997	HIGHEST		25.42	FEB 27	LOWEST		28.30	JUL 18				



GROUND-WATER LEVELS

PLATTE COUNTY

421443104574601. Local number, 26-068-12cbd01. Local name, E. Rutherford.

LOCATION.--Lat 42°14'43", long 104°57'46", in SE¹/₄ NW¹/₄ SW¹/₄ sec.12, T.26 N., R.68 W., Hydrologic Unit 10180011.
Owner: State of Wyoming.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 320 ft below land surface.

DATUM.--Elevation of land surface is 4,860 ft above sea level, from topographic map. Measuring point: top of casing, at land surface.

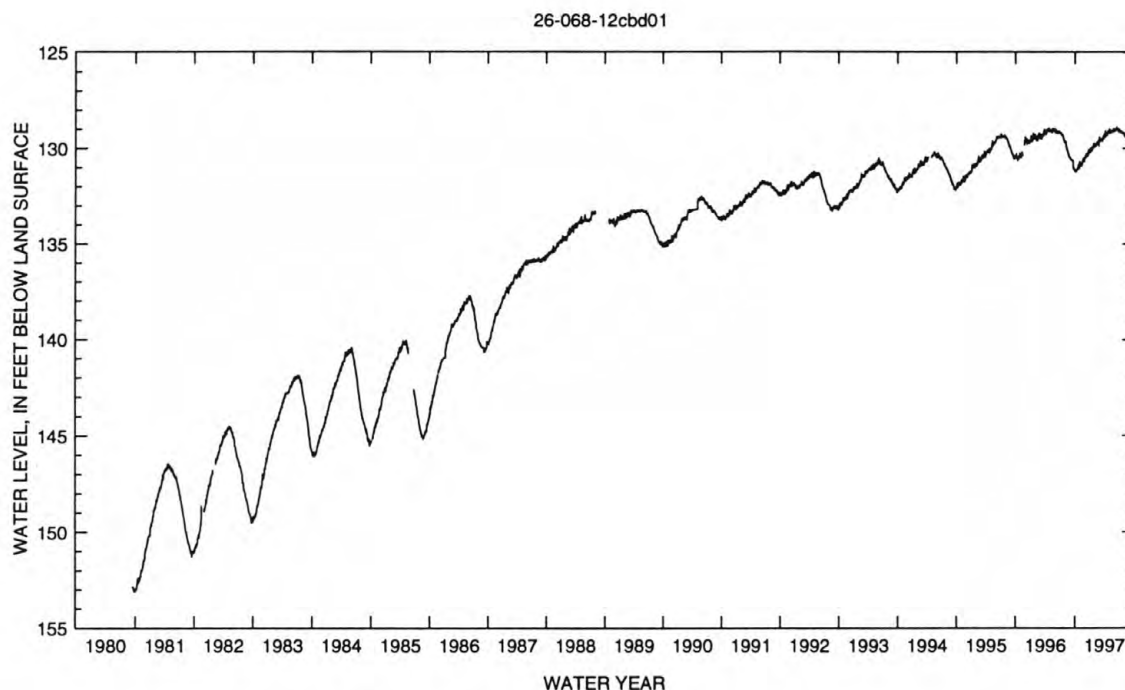
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 128.94 ft below land surface, Apr. 24, 1996; lowest, 153.11 ft below land-surface, Oct. 2, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	131.15	130.79	130.29	130.16	129.88	129.67	129.15	129.19	129.01	129.17	129.40	129.66
10	131.16	130.81	130.28	130.02	129.77	129.60	129.31	129.19	129.07	129.12	129.39	129.63
15	131.07	130.63	130.34	129.92	129.75	129.51	129.26	129.16	128.96	129.21	129.16	129.61
20	130.90	130.51	130.15	129.89	129.67	129.53	129.13	129.10	128.96	129.19	129.41	129.74
25	130.79	130.65	130.14	129.81	129.63	129.53	129.23	129.02	129.11	129.20	129.44	129.69
EOM	130.92	130.52	130.18	129.78	129.44	129.31	129.10	129.09	129.02	129.29	129.54	129.71
WTR YR 1997	HIGHEST	128.96	JUN 14, 15	LOWEST	131.25	OCT 2						



PLATTE COUNTY

421128104575801. Local number, 26-068-36bbb01. Local name, Platte County #5.

LOCATION.--Lat 42°11'28", long 104°57'58", in NW¹/₄ NW¹/₄ NW¹/₄ sec.36, T.26 N., R.68 W., Hydrologic Unit 10180011.
Owner: State of Wyoming.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 200 ft below land surface.

DATUM.--Elevation of land surface is 4,670 ft above sea level, from topographic map. Measuring point: top of casing, 1.40 ft above land surface.

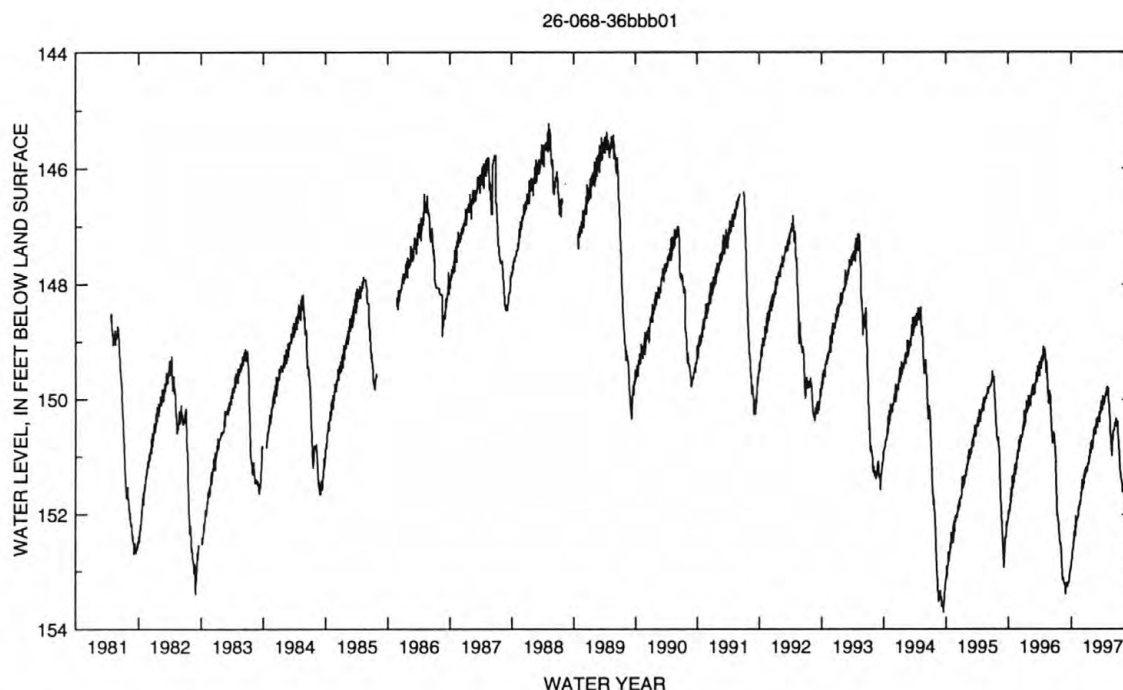
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 145.23 ft below land surface, May 7, 1988; lowest, 153.73 ft below land surface, Sept. 16, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	152.78	152.08	151.39	151.25	150.78	150.48	149.94	149.85	150.54	150.70	151.58	152.65
10	152.62	152.04	151.45	151.11	150.64	150.31	150.09	150.04	150.53	150.99	151.49	152.37
15	152.49	151.86	151.33	150.99	150.56	150.24	150.01	150.30	150.41	151.25	151.26	152.37
20	152.34	151.82	151.23	150.87	150.48	150.22	149.90	150.61	150.33	151.38	151.38	152.41
25	152.20	151.81	151.19	150.85	150.34	150.24	149.92	150.80	150.48	151.45	152.02	152.23
EOM	152.20	151.68	151.22	150.72	150.33	150.03	149.85	150.77	150.38	151.58	152.53	152.14
WTR YR 1997	HIGHEST	149.77	MAY 1	LOWEST	152.90	OCT 2						



PLATTE COUNTY

421722105042401. Local number, 27-069-25abc01. Local name, Cottonwood Creek #1.

LOCATION.--Lat 42°17'22, long 105°04'24", in SW¹/₄ NW¹/₄ NE¹/₄ sec.25, T.27 N., R.69 W., Hydrologic Unit 10180008.
Owner: State of Wyoming.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 200 ft below land surface.

DATUM.--Elevation of land surface is 4,860 ft above sea level, from topographic map. Measuring point: top of casing, 1.40 ft above land surface.

COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

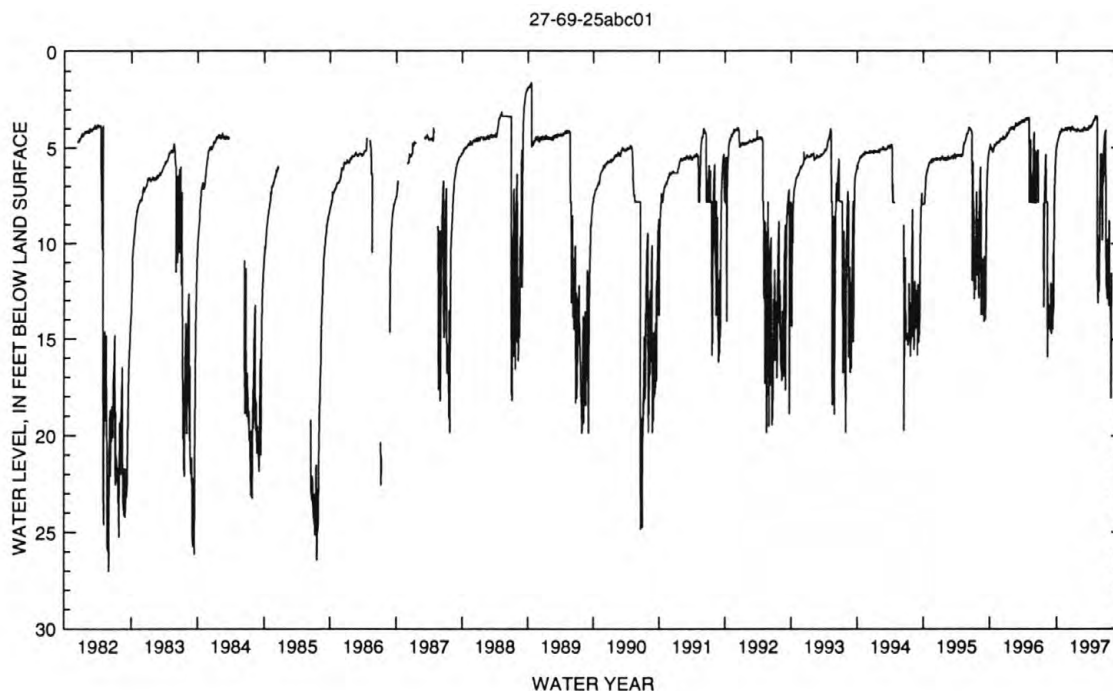
PERIOD OF RECORD.--1981 to September 1997, discontinued. Data are no longer collected as part of the U.S. Geological Survey cooperative program. The well may still exist and additional data may be available at other sources.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.63 ft below land surface, Oct. 19, 1988; lowest, 27.03 ft below land surface, May 31, 1982.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1977
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.73	4.09	3.92	4.04	4.17	4.06	3.83	3.45	7.85	12.60	---	---
10	4.56	4.09	3.94	4.07	4.14	4.05	3.93	3.40	9.47	12.65	---	---
15	4.37	4.04	4.07	4.07	4.12	4.05	3.79	11.85	6.44	12.38	---	---
20	4.20	3.95	3.95	4.10	4.07	4.06	3.61	11.97	4.52	12.44	---	6.65
25	4.09	4.09	3.95	4.08	4.08	4.03	3.60	9.63	4.20	13.80	---	4.95
EOM	4.13	4.03	4.03	4.09	3.96	3.95	3.46	5.31	10.31	---	---	4.38

WTR YR 1997 HIGHEST 3.38 MAY 1 LOWEST 18.06 JUL 28



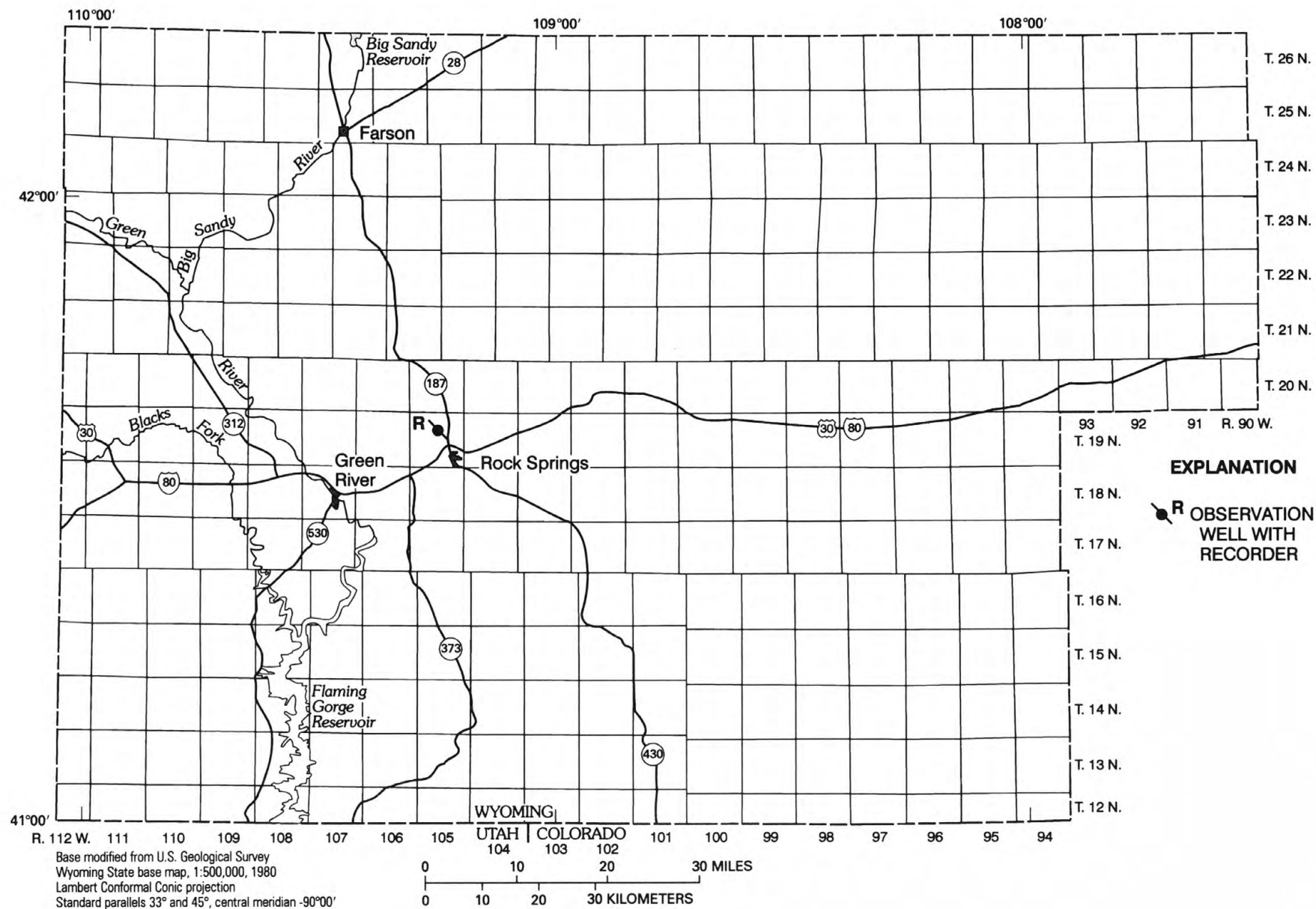


Figure 18. Location of observation well in Sweetwater County, Wyoming.

SWEETWATER COUNTY

413850109150601. Local number, 19-105-10bbb01. Local name, Rock Springs Golf Course.

LOCATION.--Lat 41°38'50", long 109°15'06", in NW¹/₄ NW¹/₄ NW¹/₄ sec.10, T.19 N., R.105 W., Hydrologic Unit 14040105.
Owner: Sweetwater County.

AQUIFER.--Fort Union Formation.

WELL CHARACTERISTICS.--Depth of well, 240 ft below land surface.

DATUM.--Elevation of land surface is 6,430 ft above sea level, from topographic map. Measuring point: top of casing, 0.60 ft above land surface.

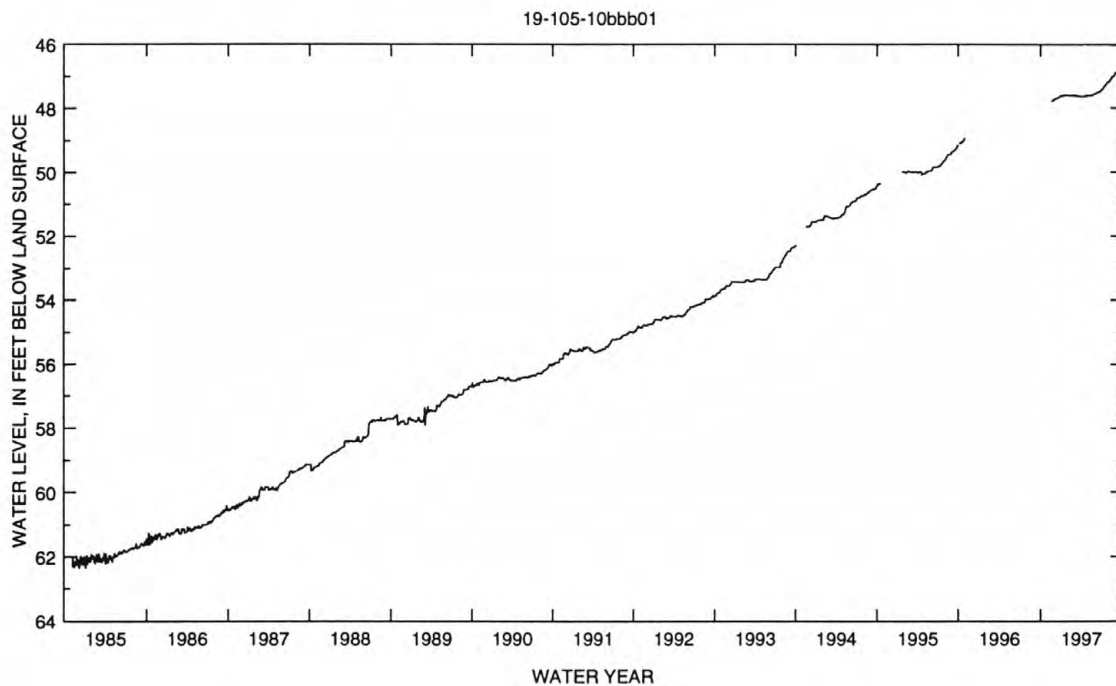
REMARKS.--Data collected by U.S. Geological Survey.

PERIOD OF RECORD.--1984 to curret year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 46.63 ft below land surface, Sept. 29, 30, 1997; lowest, 62.36 ft below land surface, Dec. 6, 1984, Jan. 3, 1985.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	47.73	47.61	47.60	47.60	47.63	47.60	47.54	47.41	47.14	46.88
10	---	---	47.70	47.61	47.61	47.61	47.63	47.61	47.53	47.34	47.08	46.84
15	---	---	47.68	47.59	47.61	47.62	47.63	47.60	47.51	47.32	47.02	46.74
20	---	---	47.68	47.60	47.61	47.63	47.63	47.59	47.49	47.26	47.00	46.66
25	---	47.76	47.64	47.59	47.62	47.63	47.61	47.57	47.48	47.21	46.97	46.65
EOM	---	47.75	47.62	47.60	47.59	47.64	47.60	47.56	47.43	47.18	46.89	46.63
WTR YR 1997	HIGHEST		46.63	SEP 29,30	LOWEST		47.79	NOV 21				



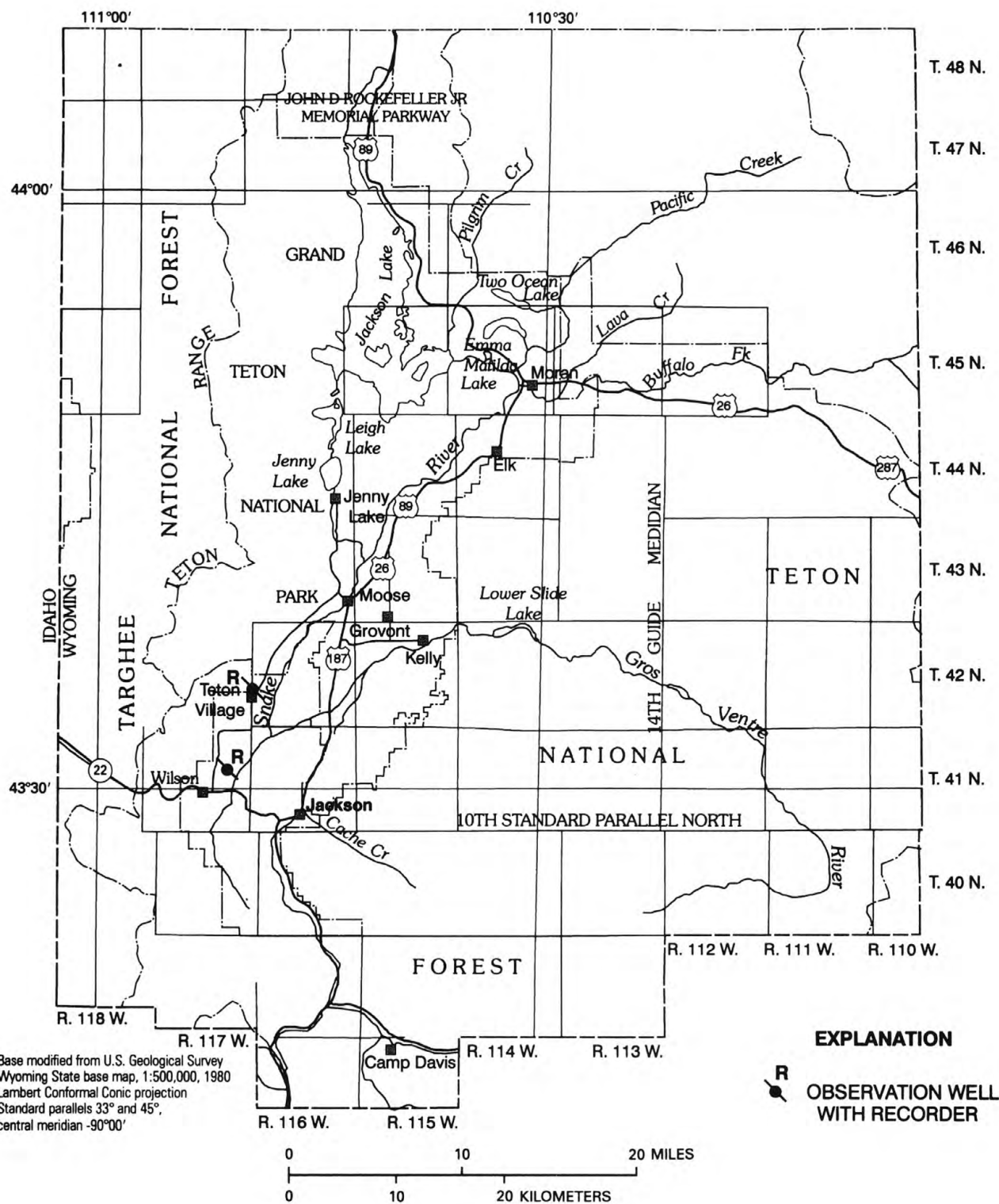


Figure 19. Location of observation wells in Teton County, Wyoming.

GROUND-WATER LEVELS

TETON COUNTY

433059110511802. Local number, 41-117-14bdc02. Local name, Teton Pines.

LOCATION.--Lat 43°30'59", long 110°51'18", in SW¹/₄ SE¹/₄ NW¹/₄ sec.14, T.41 N., R.117 W., Hydrologic Unit 17040103.
Owner: Skip Wright-Clark.

AQUIFER.--Holocene alluvium.

WELL CHARACTERISTICS.--Depth of well, 20 ft below land surface.

DATUM.--Elevation of land surface is 6,180 ft above sea level, from topographic map. Measuring point: top of casing, 1.20 ft above land surface.

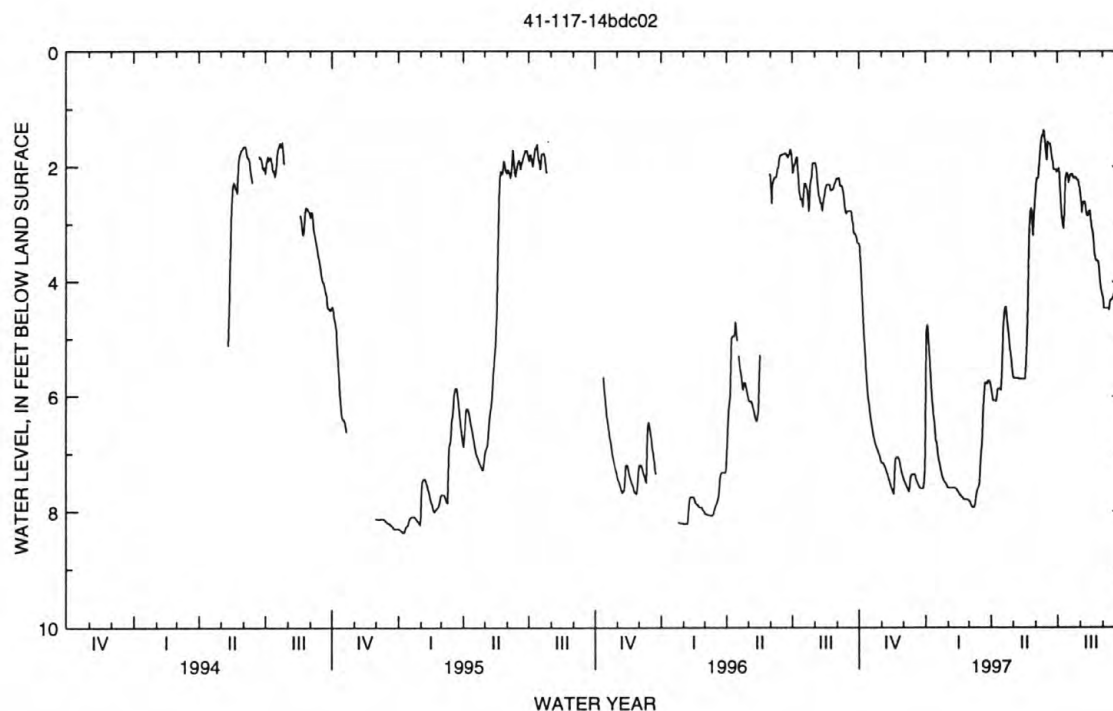
REMARKS.--Data collected by U.S. Geological Survey.

PERIOD OF RECORD.--April 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest recorded water level, 1.37 ft below land surface, June 12, 13, 1997; lowest recorded, 8.36 ft below land surface, Jan. 6-10, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.07	7.20	7.55	4.91	7.59	7.91	6.07	5.67	2.20	2.39	2.66	4.46
10	5.29	7.38	7.58	6.02	7.59	7.87	5.88	5.69	1.46	3.07	2.82	4.48
15	6.12	7.60	7.35	6.77	7.66	7.57	5.88	5.69	1.71	2.11	2.76	4.28
20	6.58	7.11	7.47	7.15	7.74	6.80	4.45	5.19	1.60	2.13	3.30	4.20
25	6.87	7.08	7.60	7.43	7.79	5.76	4.87	2.78	1.91	2.18	3.63	4.29
EOM	7.11	7.37	7.27	7.57	7.79	5.76	5.48	2.72	2.10	2.33	4.19	4.70
WTR YR 1997	HIGHEST 1.37 JUN 12, 13			LOWEST 7.93 MAR 7, 8								



TETON COUNTY

433517110493001. Local number, 42-117-24dab01. Local name, Teton Village.

LOCATION.--Lat 43°35'17", long 110°49'30", in NW¹/₄ NE¹/₄ SE¹/₄ sec.24, T.42 N., R.117 W., Hydrologic Unit 17040103.
Owner: Snake River Ranch.

AQUIFER.--Holocene alluvium.

WELL CHARACTERISTICS.--Depth of well, 30 ft below land surface.

DATUM.--Elevation of land surface is 6307.92 above sea level, by survey. Measuring point: top of casing, 1.00 ft above land surface.

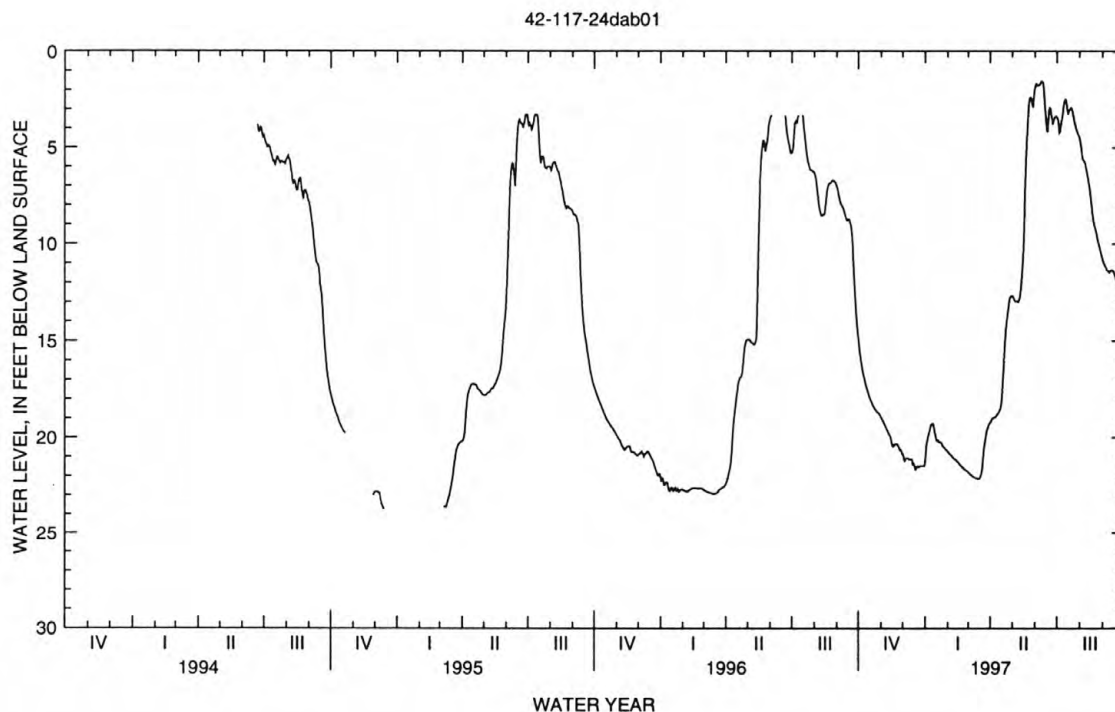
REMARKS.--Data collected by U.S. Geological Survey.

PERIOD OF RECORD.--June 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.53 ft below land surface, June 10, 1997; lowest observed, 24.52 ft below land surface, Jan. 20, 1995.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.05	19.21	21.13	20.01	20.89	21.93	18.99	12.97	1.76	4.21	5.61	11.16
10	17.02	19.62	21.15	19.31	21.10	22.08	18.84	12.95	1.53	2.77	6.14	11.44
15	17.74	20.02	21.39	19.85	21.27	22.14	18.51	11.19	3.21	3.09	7.28	11.37
20	18.23	20.38	21.60	20.24	21.48	21.86	15.87	5.11	2.98	2.92	8.87	11.84
25	18.58	20.42	21.50	20.44	21.68	20.17	13.51	2.37	3.79	3.70	9.67	12.22
EOM	18.85	20.77	21.50	20.68	21.75	19.26	12.68	2.08	3.35	4.40	10.61	12.72
WTR YR 1997	HIGHEST		1.53	JUN 10	LOWEST		22.15	MAR 16				



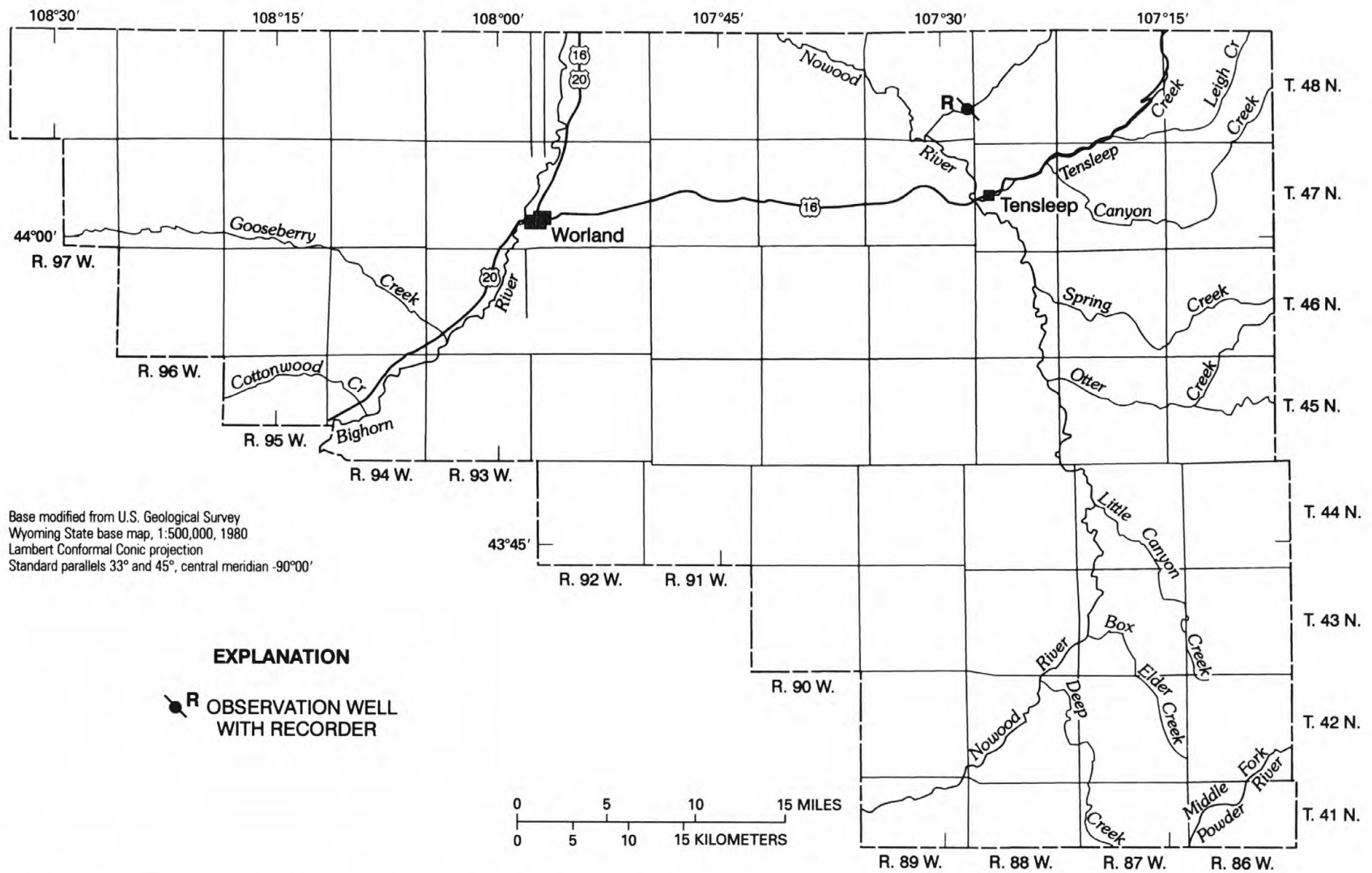


Figure 20. Location of observation well in Washakie County, Wyoming.

WASHAKIE COUNTY

440621107273801. Local number, 48-089-25ada01. Local name, Mills.

LOCATION.--Lat 44°06'21", long 107°27'38", in NE¹/₄ SE¹/₄ NE¹/₄ sec.25, T.48 N., R.89 W., Hydrologic Unit 10080008.
Owner: Boyd Mills.

AQUIFER.--Flathead Sandstone.

WELL CHARACTERISTICS.--Depth of well, 2,290 ft below land surface.

DATUM.--Elevation of land surface is 4,560 ft above sea level, from topographic map.

REMARKS.--Shut-in pressure was measured by pressure transducer and converted to hydraulic head above land surface for illustration purposes. Hydraulic head, in feet above land surface, was calculated by multiplying the shut-in pressure in pounds per square inch times 2.31. Hydraulic head data from May 13, 1992 to Mar. 24, 1995 were not plotted on the hydrograph because the monitoring equipment was out of calibration during this time. The data and a more detailed explanation of the data were published in Open-File report 96-648 "Ground-Water Levels in Wyoming, January 1986 through September 1995." Hydraulic head data from Mar. 24, 1995 to Apr. 25, 1996 were not collected. The accuracy of the hydraulic head measurements is ± 5.0 ft. Data collected by U.S. Geological Survey.

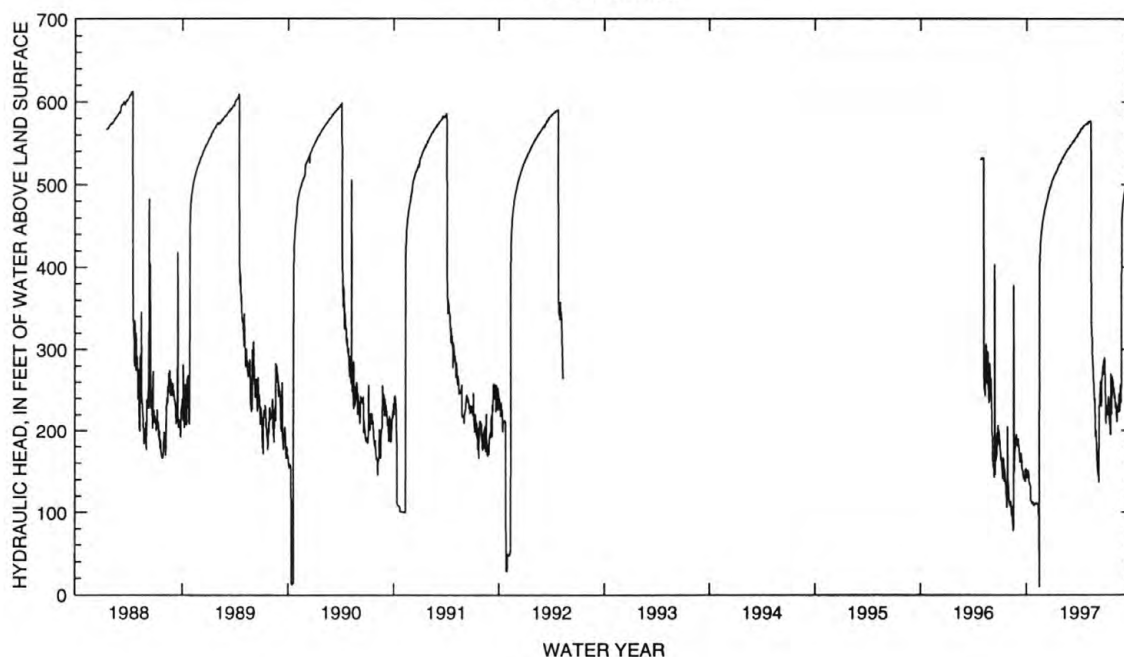
PERIOD OF RECORD.--1988 to current year.

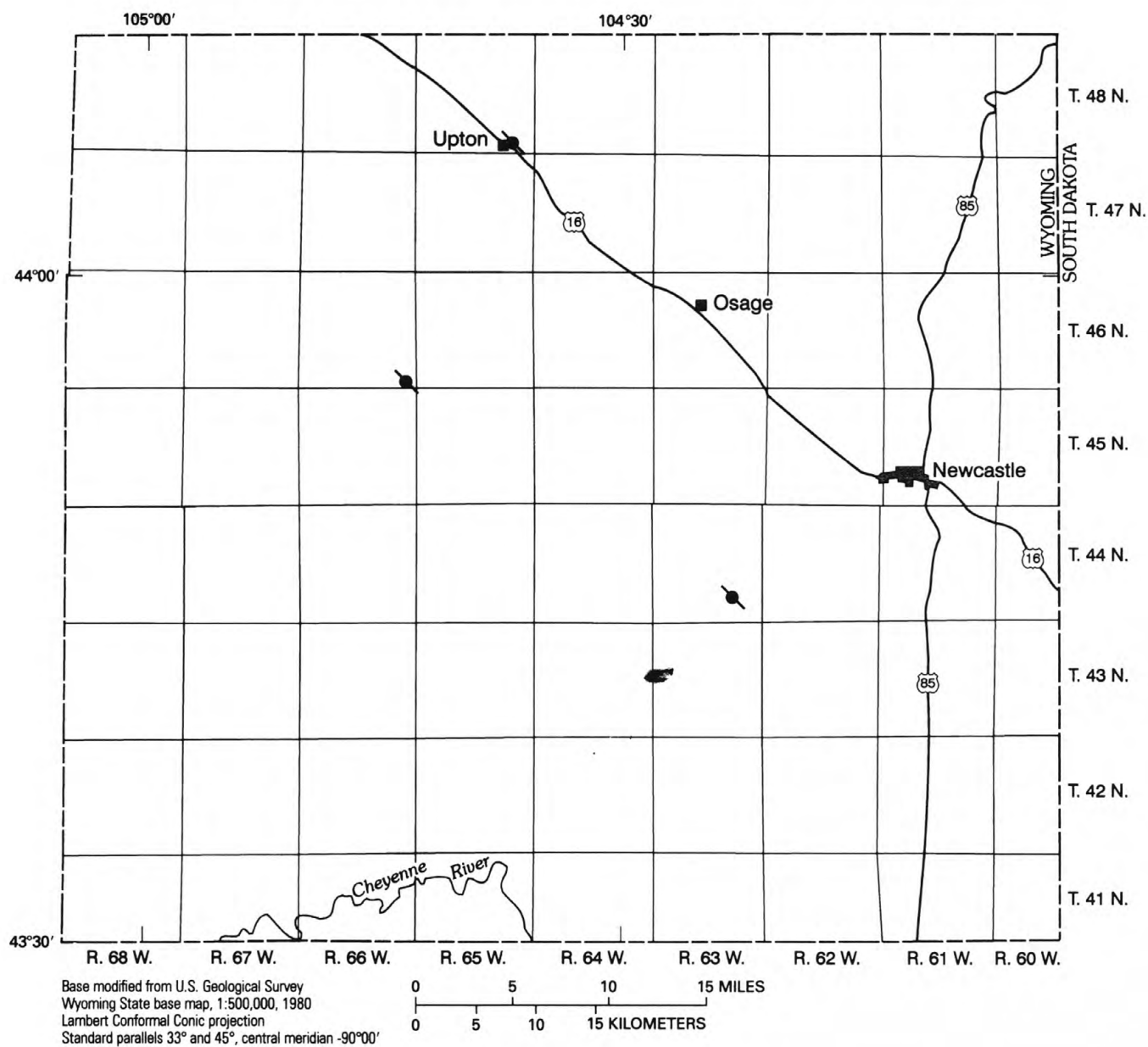
EXTREMES FOR PERIOD OF RECORD.--Highest hydraulic head, 612.20 ft above land surface, Apr. 13, 1988; lowest, 8.78 ft above land surface, Nov. 14, 1997.

HYDRAULIC HEAD, IN FEET ABOVE LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	149.95	110.93	473.06	510.96	533.84	549.32	566.19	576.59	141.28	230.41	218.29	495.71
10	139.07	110.70	480.92	514.43	536.85	552.56	568.04	516.48	248.09	229.79	228.74	502.18
15	132.70	388.78	489.01	518.36	540.08	553.72	570.59	294.73	230.28	195.74	246.58	507.03
20	111.87	437.01	495.71	523.21	542.85	556.95	572.67	259.06	281.02	220.11	247.56	509.58
25	108.85	453.19	499.64	525.52	545.63	559.96	573.82	192.54	270.44	259.04	466.62	513.27
EOM	110.23	464.74	506.80	531.07	546.32	563.19	575.44	160.92	208.91	244.14	487.39	516.05
WTR YR 1997	HIGHEST	577.06	May 6	LOWEST	8.78	Nov 14						

48-089-25ada01





EXPLANATION

● OBSERVATION WELL

Figure 21. Location of observation wells in Weston County, Wyoming.

WESTON COUNTY

434539104233401. Local number, 44-063-26cac01. Local name, Townsend Well.

LOCATION.--Lat 43°45'39", long 104°23'34", in SW¹/₄ NE¹/₄ SW¹/₄ sec.26, T.44 N., R.63 W., Hydrologic Unit 10120107.
Owner: Townsend Company, Inc.

AQUIFER.--Madison Limestone. Labeled as Pahasapa Limestone, which is equivalent, in some previous reports.

WELL CHARACTERISTICS.--Depth of well, 6,880 ft below land surface.

DATUM.--Elevation of land surface is 3,990 ft above sea level, from topographic map. Measuring point: top of casing, 1.5 ft above land surface.

REMARKS.--Data reflects static and pumping water levels.

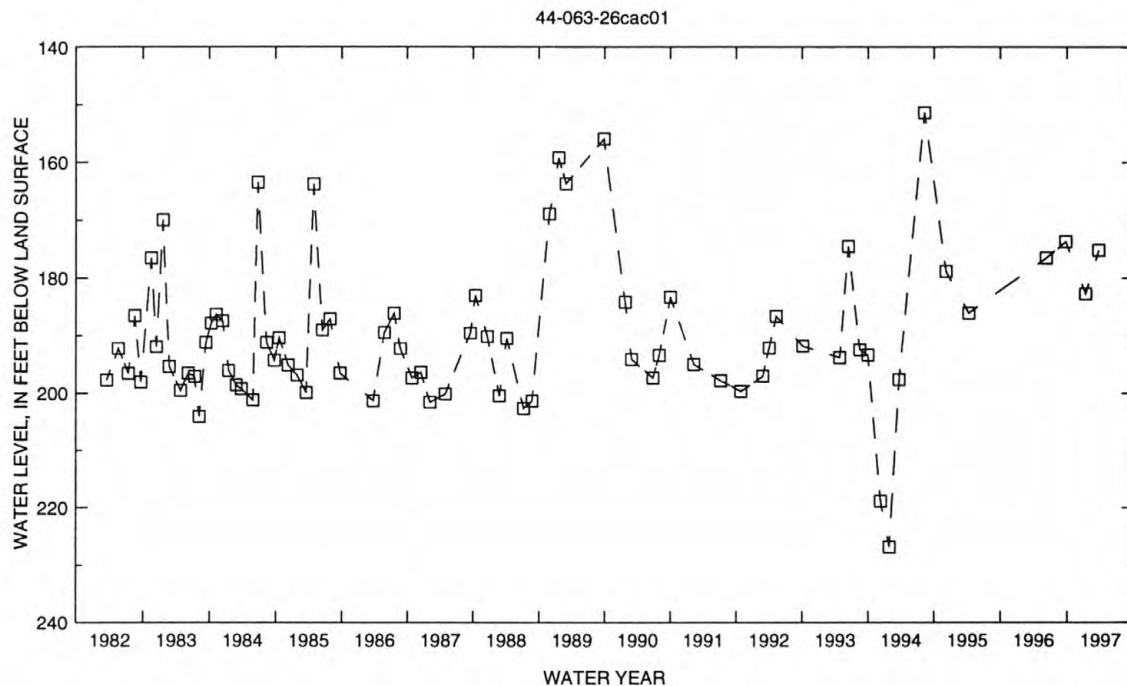
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 151.35 ft below land surface, from hand-measured data, Aug. 9, 1994; lowest, 226.80 ft below land surface, from hand-measured data, Jan. 27, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 13	182.72	MAR 25	175.16



WESTON COUNTY

435610104433001. Local number, 46-066-25dbb01. Local name, Terra Resources.

LOCATION.--Lat 43°56'10", long 104°43'30", in NW¹/₄ NW¹/₄ SE¹/₄ sec.25, T.46 N., R.66 W., Hydrologic Unit 10120103.
Owner: Terra Resources.

AQUIFER.--Madison Limestone. Labeled as Pahasapa Limestone, which is equivalent, in some previous reports.

WELL CHARACTERISTICS.--Depth of well, 8,780 ft below land surface.

DATUM.--Elevation of land surface is 4,200 ft above sea level, from topographic map. Measuring point: top of casing, at land surface.

REMARKS.--Data reflects static condition and pumping of nearby water flood system.

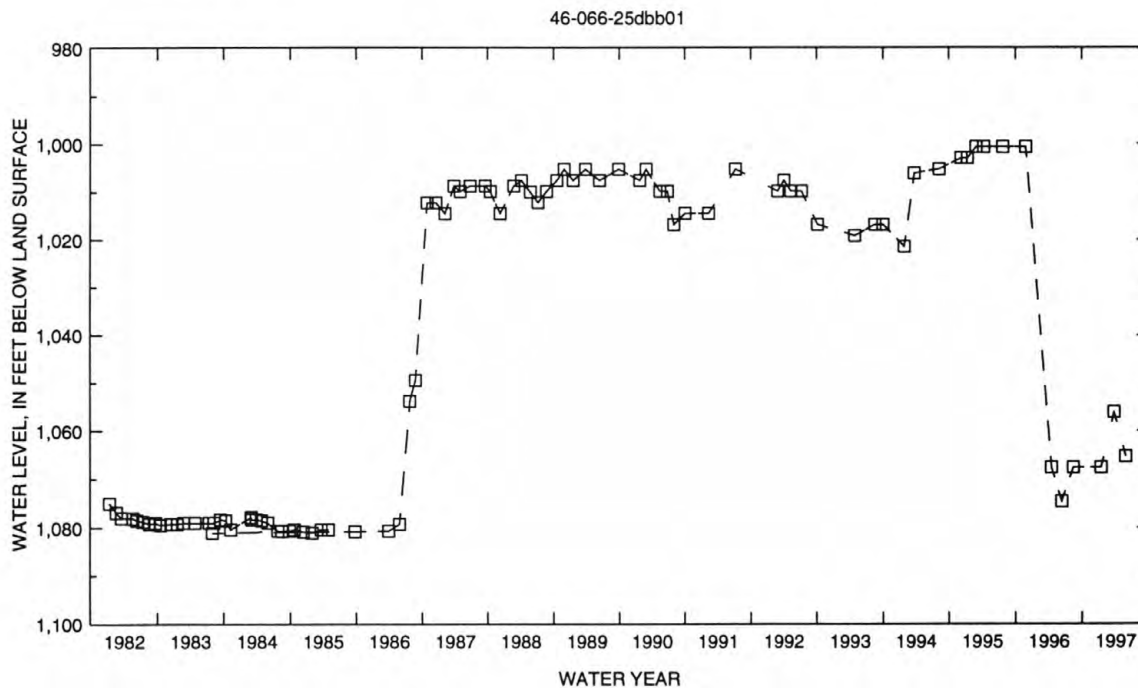
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1,000.67 ft below land surface, from hand-measured data, Feb. 28, Apr. 11, July 25, and Nov. 28, 1995; lowest, 1,081.06 ft below land surface, from-hand measured data, July 30, 1985.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 13	1067.66	MAR 25	1056.11	MAY 28	1065.35



WESTON COUNTY

440530104381001. Local number, 48-065-35ccb01. Local name, Town of Upton #4.

LOCATION.--Lat 44°05'30", long 104°38'10", in NW¹/₄ SW¹/₄ SW¹/₄ sec.35, T.48 N., R.65 W., Hydrologic Unit 10120107.
Owner: Town of Upton.

AQUIFER.--Madison Limestone. Labeled as Pahasapa Limestone, which is equivalent, in some previous reports.

WELL CHARACTERISTICS.--Depth of well, 3,190 ft below land surface.

DATUM.--Elevation of land surface is 4,220 ft above sea level, from topographic map. Measuring point: top of casing, 0.70 ft above land surface.

REMARKS.--Data reflects static and pumping water levels.

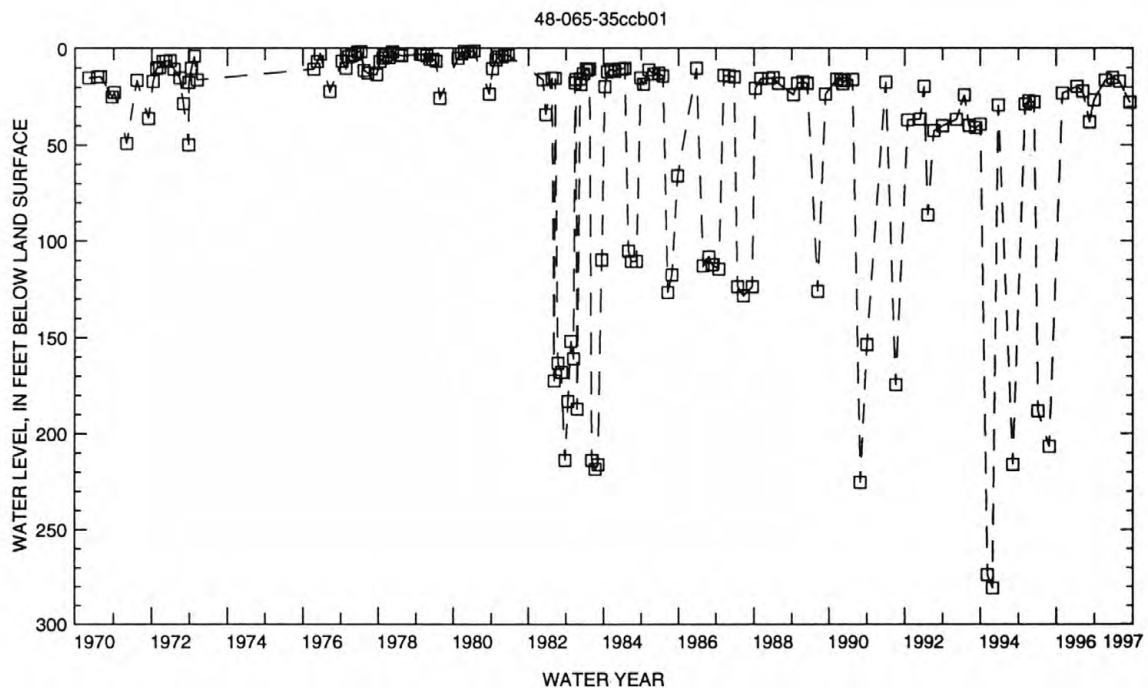
COOPERATION.--Data collected and records provided by the Office of the Wyoming State Engineer and reviewed by U.S. Geological Survey.

PERIOD OF RECORD.--1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.30 ft below land surface, from hand-measured data, Apr. 16, 1980; lowest, 280.67 ft below land surface, from hand-measured data, Jan. 27, 1994.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 13	16.44	MAR 25	15.00	MAY 28	16.95	SEP 09	27.92



GROUND-WATER LEVELS

HIGH PLAINS STUDY
(Water levels are at depth below land surface, in feet)

GOSHEN COUNTY

SITE-ID	LATITUDE	LONGITUDE	LOCAL WELL NUMBER	ELEVATION OF LAND SURFACE (FEET)	WATER- LEVEL DATE	WATER LEVEL (FEET)
413400104382701	413400	1043827	19-065-34dcc01	5520	04-28-97	69.34
413629104205001	413629	1042050	19-062-18ddc01	5058	05-05-97	76.14
413716104203401	413716	1042034	19-062-17bbb01	4940	05-05-97	22.69
413951104363801	413951	1043638	20-065-36bca01	5404	04-29-97	106.83
420042104110401	420042	1041104	24-061-34bca01	4217	05-06-97	29.42
420204104294501	420204	1042945	24-064-24ccb01	4305	04-30-97	5.42
420606104251701	420608	1042516	25-063-33aaa01	4330	04-30-97	54.60
420845104122301	420845	1041223	25-061-17aaa01	4310	05-06-97	54.06
421244104175501	421244	1041755	26-062-22bcd01	4290	06-27-97	40.96
421328104205401	421328	1042054	26-062-18dbd01	4500	06-27-97	61.73
421357104120001	421357	1041200	26-061-16bab01	4445	04-30-97	42.87
422347104212001	422347	1042120	28-062-18cac01	4470	05-12-97	13.58
423056104212701	423056	1042127	29-062-06cba01	4700	05-12-97	28.94
423057104212701	423057	1042127	29-062-06cba02	4700	05-12-97	29.43
423131104214101	423131	1042141	30-063-36ddd01	4775	05-12-97	86.05
413506104163001	413506	1041616	19-062-26dba01	4819	04-29-97	26.39
421322104111101	421332	1041112	26-061-16daa01	4425.8	04-30-97	50.77
413326104291801	413326	1042918	18-064-01caa01	5307	05-05-97	113.32
413116104264901	413116	1042949	18-063-17dcd01	5320	05-05-97	137.67
411904104275201	411903	1042750	16-063-30ddd01	5705	05-05-97	148.00
421620104312501	421618	1043123	27-064-34abd01	4512.5	06-27-97	98.71

LARAMIE COUNTY

SITE-ID	LATITUDE	LONGITUDE	LOCAL WELL NUMBER	ELEVATION OF LAND SURFACE (FEET)	WATER- LEVEL DATE	WATER LEVEL (FEET)
411515104480801	411515	1044808	15-066-20cab01	6116	05-08-97	21.13
412304104311001	412304	1043110	16-064-02bcb01	5778	05-08-97	233.97
412321104282801	412321	1042828	16-063-06baa01	5685	05-08-97	194.87
412854104493001	412854	1044930	18-066-31ccb01	5920	05-09-97	112.08
413200104412201	413200	1044122	18-065-17bbc01	5598	04-28-97	47.51

PLATTE COUNTY

SITE-ID	LATITUDE	LONGITUDE	LOCAL WELL NUMBER	ELEVATION OF LAND SURFACE (FEET)	WATER- LEVEL DATE	WATER LEVEL (FEET)
414206104500101	414206	1045001	20-067-13dbd01	5490	04-16-97	40.28
420452104413801	420452	1044138	24-065-06daa02	5070	06-27-97	268.23
422355105023401	422355	1050238	28-068-17cbc01	4918	04-16-97	57.60
414755104391101	414752	1043914	21-065-16aaa01	5294	04-16-97	74.26

NIOBRARA COUNTY

SITE-ID	LATITUDE	LONGITUDE	LOCAL WELL NUMBER	ELEVATION OF LAND SURFACE (FEET)	WATER- LEVEL DATE	WATER LEVEL (FEET)
423940104031201	423939	1040310	31-060-15dbc01	4730	05-12-97	35.38

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SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ELEVATION OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER-LEVEL DATE	WATER LEVEL (FEET)
440509110405001	48-115-32aba01	111ALVM	6792.63	9.00	10-21-96	3.64
					11-21-96	2.66
					05-13-97	-.04
					05-22-97	-.02
					05-27-97	.01
					06-02-97	.01
					06-03-97	.04
					06-12-97	.10
					06-19-97	.33
					06-24-97	.54
					07-02-97	.76
					07-10-97	1.11
					07-17-97	1.66
					07-22-97	1.43
					07-31-97	1.59
					08-06-97	1.55
					08-15-97	1.58
					08-20-97	1.95
					08-27-97	2.25
					09-02-97	2.51
					09-09-97	2.60
					09-16-97	2.66
					09-22-97	2.59
					440510110410101	48-115-32abb01
11-21-96	.85					
05-13-97	-1.29					
05-22-97	-1.29					
05-27-97	-1.26					
06-02-97	-1.30					
06-03-97	-1.28					
06-12-97	-1.25					
06-19-97	-1.15					
06-24-97	-.91					
07-02-97	-.71					
07-10-97	-.33					
07-17-97	-.26					
07-22-97	-.07					
07-31-97	.08					
08-06-97	.04					
08-15-97	.06					
08-20-97	.46					
08-27-97	.69					
09-02-97	.91					
09-09-97	.95					
09-16-97	1.02					
09-22-97	.95					
440514110411101	48-115-32baa01	111ALVM	6792.79	9.05		
					11-21-96	3.70
					05-13-97	1.38
					05-22-97	1.48
					05-27-97	1.62
					06-02-97	1.33
					06-03-97	1.43
					06-12-97	1.52
					06-19-97	1.71
					06-24-97	2.10
					07-02-97	2.28
					07-10-97	2.62
					07-17-97	2.74
					07-22-97	2.95
					07-31-97	3.09
					08-06-97	3.06
					08-15-97	3.10
					08-20-97	3.44
					08-27-97	3.65
					09-02-97	3.84
					09-09-97	4.06
					09-16-97	3.90
					09-22-97	3.83

GROUND-WATER LEVELS

SNAKE RIVER GRAVEL PIT RESTORATION STUDY--Continued

SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ELEVATION OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER- LEVEL DATE	WATER LEVEL (FEET)
440515110410101	48-115-29dcc01	111ALVM	6792.40	8.10	10-21-96	3.63
					11-21-96	2.71
					05-13-97	-.31
					05-22-97	.06
					05-27-97	.16
					06-02-97	.03
					06-03-97	.06
					06-12-97	.16
					06-19-97	.37
					06-24-97	.70
					07-02-97	.94
					07-10-97	1.28
					07-17-97	1.38
					07-22-97	1.58
					07-31-97	1.76
					08-06-97	1.77
					08-15-97	1.81
					08-20-97	2.10
					08-27-97	2.38
					09-02-97	2.60
					09-09-97	2.70
					09-16-97	2.75
					09-22-97	2.70
440516110411201	48-115-29cdd01	111ALVM	6793.21	9.20	10-21-96	5.03
					11-21-96	4.09
					05-13-97	1.78
					05-22-97	1.89
					05-27-97	2.00
					06-02-97	1.68
					06-03-97	1.81
					06-12-97	1.87
					06-19-97	2.10
					06-24-97	2.41
					07-02-97	2.62
					07-10-97	2.96
					07-17-97	3.08
					07-22-97	3.30
					07-31-97	3.43
					08-06-97	3.41
					08-15-97	3.46
					08-20-97	3.78
					08-27-97	4.00
					09-02-97	4.19
					09-09-97	4.23
					09-16-97	4.26
					09-22-97	4.20
440520110404501	48-115-29dcd01	111ALVM	6796.29	9.45	10-21-96	6.29
					11-21-96	5.65
					05-13-97	1.32
					05-22-97	1.75
					05-27-97	1.79
					06-02-97	1.82
					06-03-97	1.85
					06-12-97	1.95
					06-19-97	2.17
					06-24-97	2.54
					07-02-97	2.91
					07-10-97	3.27
					07-17-97	3.43
					07-22-97	3.65
					07-31-97	3.84
					08-06-97	3.94
					08-15-97	3.95
					08-20-97	4.24
					08-27-97	4.62
					09-02-97	4.90
					09-09-97	5.12
					09-16-97	5.17
					09-22-97	5.21

GROUND-WATER LEVELS

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SNAKE RIVER GRAVEL PIT RESTORATION STUDY--Continued

SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ELEVATION OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER- LEVEL DATE	WATER LEVEL (FEET)
440521110411601	48-115-29cdc01	111ALVM	6793.35	9.40	10-21-96	5.00
					11-21-96	4.18
					05-13-97	1.47
					05-22-97	1.40
					05-27-97	1.75
					06-02-97	.82
					06-03-97	.42
					06-12-97	1.44
					06-19-97	1.77
					06-24-97	2.20
					07-02-97	2.44
					07-10-97	2.79
					07-17-97	2.96
					07-22-97	3.20
					07-31-97	3.41
					08-06-97	3.44
					08-15-97	3.49
					08-20-97	3.81
					08-27-97	4.01
					09-02-97	4.21
					09-09-97	4.23
					09-16-97	4.25
					09-22-97	4.21
440522110405601	48-115-29dcb01	111ALVM	6801.11	13.7	10-21-96	11.38
					11-21-96	9.95
					05-13-97	7.29
					05-22-97	7.37
					05-27-97	7.42
					06-02-97	7.20
					06-03-97	7.39
					06-12-97	7.42
					06-19-97	7.60
					06-24-97	7.83
					07-02-97	8.20
					07-10-97	8.48
					07-17-97	8.67
					07-22-97	8.82
					07-31-97	9.07
					08-06-97	9.23
					08-15-97	9.20
					08-20-97	9.38
					08-27-97	9.74
					09-02-97	10.08
					09-09-97	10.19
					09-16-97	10.35
					09-22-97	10.40
440528110404401	48-115-29dca01	111ALVM	6799.68	16.3	10-21-96	8.40
					11-21-96	7.66
					05-13-97	3.09
					05-22-97	3.28
					05-27-97	3.49
					06-02-97	3.24
					06-03-97	3.45
					06-12-97	3.64
					06-19-97	3.76
					06-24-97	4.13
					07-02-97	4.42
					07-10-97	4.77
					07-17-97	4.98
					07-22-97	5.20
					07-31-97	5.34
					08-06-97	5.41
					08-15-97	5.47
					08-20-97	6.07
					08-27-97	6.58
					09-02-97	6.92
					09-09-97	7.10
					09-16-97	7.22
					09-22-97	7.22

GROUND-WATER LEVELS

SNAKE RIVER GRAVEL PIT RESTORATION STUDY--Continued

SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ELEVATION OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER- LEVEL DATE	WATER LEVEL (FEET)
440528110411201	48-115-29cac01	111ALVM	6801.43	18.7	10-21-96	11.93
					11-21-96	11.23
					05-13-97	8.71
					05-22-97	8.41
					05-27-97	8.89
					06-02-97	8.00
					06-03-97	8.24
					06-12-97	8.55
					06-19-97	8.88
					06-24-97	8.93
					07-02-97	9.05
					07-10-97	9.29
					07-17-97	9.48
					07-22-97	9.79
					07-31-97	10.10
					08-06-97	10.20
					08-15-97	10.25
					08-20-97	10.57
					08-27-97	10.82
					09-02-97	11.02
					09-09-97	11.06
					09-16-97	11.10
					09-22-97	11.08
440529110405701	48-115-29dbc01	111ALVM	6797.21	9.00	10-21-96	6.47
					11-21-96	5.87
					05-13-97	3.03
					05-22-97	3.00
					05-27-97	3.19
					06-02-97	2.83
					06-03-97	2.98
					06-12-97	3.12
					06-19-97	3.26
					06-24-97	3.45
					07-02-97	3.51
					07-10-97	3.81
					07-17-97	3.98
					07-22-97	4.19
					07-31-97	4.45
					08-06-97	4.59
					08-15-97	4.63
					08-20-97	4.99
					08-27-97	5.27
					09-02-97	5.48
					09-09-97	5.54
					09-16-97	5.58
					09-22-97	5.60
440530110404301	48-115-29dac01	111ALVM	6798.55	9.10	10-21-96	6.78
					11-21-96	5.60
					05-13-97	.72
					05-22-97	1.12
					05-27-97	1.31
					06-02-97	1.07
					06-03-97	1.30
					06-12-97	1.48
					06-19-97	1.57
					06-24-97	1.98
					07-02-97	2.26
					07-10-97	2.62
					07-17-97	2.91
					07-22-97	3.10
					07-31-97	3.21
					08-06-97	3.24
					08-15-97	3.36
					08-20-97	4.17
					08-27-97	4.80
					09-02-97	5.20
					09-09-97	5.31
					09-16-97	5.54
					09-22-97	5.55

GROUND-WATER LEVELS

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SPREAD CREEK PROPOSED GRAVEL PIT STUDY
(Water levels are at depth below land surface, in feet)

SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ELEVATION OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER- LEVEL DATE	WATER LEVEL (FEET)
434630110301401	44-114-14cba01	111ALVM	7021.77	25.3	11-20-96	dry
					05-14-97	dry
					05-21-97	dry
					05-27-97	dry
					06-02-97	dry
					06-03-97	dry
					06-12-97	dry
					06-19-97	dry
					06-24-97	dry
					07-02-97	dry
					07-10-97	dry
					07-17-97	dry
					07-23-97	dry
					07-31-97	dry
					08-06-97	dry
					08-15-97	dry
					08-19-97	dry
					08-26-97	dry
					09-02-97	dry
					09-09-97	dry
					09-16-97	dry
					09-22-97	dry
434632110302801	44-114-15daa01	111ALVM	7002.07	25.3	11-20-96	dry
					05-14-97	(*)
					05-21-97	(*)
					05-27-97	(*)
					06-02-97	(*)
					06-03-97	(*)
					06-12-97	(*)
					06-19-97	(*)
					06-24-97	(*)
					07-02-97	(*)
					07-10-97	21.85
					07-17-97	22.49
					07-23-97	dry
					07-31-97	dry
					08-06-97	dry
					08-15-97	dry
					08-19-97	dry
					08-26-97	dry
					09-02-97	dry
					09-09-97	dry
					09-16-97	dry
					09-22-97	dry
434634110301401	44-114-14cba02	111ALVM	7020.09	25.3	11-20-96	dry
					05-14-97	dry
					05-21-97	dry
					05-27-97	dry
					06-02-97	dry
					06-03-97	dry
					06-12-97	dry
					06-19-97	dry
					06-24-97	dry
					07-02-97	dry
					07-10-97	dry
					07-17-97	dry
					07-23-97	dry
					07-31-97	dry
					08-06-97	dry
					08-15-97	dry
					08-19-97	dry
					08-26-97	dry
					09-02-97	dry
					09-09-97	dry
					09-16-97	dry
					09-22-97	dry

(*) Well inoperative.

GROUND-WATER LEVELS

SPREAD CREEK PROPOSED GRAVEL PIT STUDY--Continued

SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ELEVATION OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER- LEVEL DATE	WATER LEVEL (FEET)
434635110304101	44-114-15dab01	111ALVM	6979.82	25.3	11-20-96	22.35
					05-14-97	dry
					05-21-97	dry
					05-27-97	dry
					06-02-97	dry
					06-03-97	dry
					06-12-97	dry
					06-19-97	dry
					06-24-97	dry
					07-02-97	dry
					07-10-97	22.40
					07-17-97	22.46
					07-23-97	22.60
					07-31-97	22.70
					08-06-97	22.49
					08-15-97	22.49
					08-19-97	22.49
					08-26-97	22.48
					09-02-97	22.59
					09-09-97	22.60
					09-16-97	22.39
					09-22-97	21.54
434637110302701	44-114-15add01	111ALVM	6997.62	25.4	11-20-96	dry
					05-14-97	dry
					05-21-97	dry
					05-27-97	dry
					06-02-97	dry
					06-03-97	dry
					06-12-97	dry
					06-19-97	dry
					06-24-97	dry
					07-02-97	dry
					07-10-97	dry
					07-17-97	dry
					07-23-97	dry
					07-31-97	dry
					08-06-97	dry
					08-15-97	dry
					08-19-97	dry
					08-26-97	dry
					09-02-97	dry
					09-09-97	dry
					09-16-97	dry
					09-22-97	dry
434641110304001	44-114-15adc01	111ALVM	6976.19	25.3	11-20-96	22.40
					05-14-97	dry
					05-21-97	dry
					05-27-97	dry
					06-02-97	dry
					06-03-97	dry
					06-12-97	dry
					06-19-97	dry
					06-24-97	dry
					07-02-97	dry
					07-10-97	24.40
					07-17-97	24.40
					07-23-97	dry
					07-31-97	dry
					08-06-97	dry
					08-15-97	dry
					08-19-97	dry
					08-26-97	dry
					09-02-97	dry
					09-09-97	dry
					09-16-97	dry
					09-22-97	dry

GROUND WATER LEVELS

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GROUND WATER NEAR WASTEWATER TREATMENT FACILITIES, GRAND TETON NATIONAL PARK
(Water levels are at depth below land surface, in feet)

SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ELEVATION OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER- LEVEL DATE	WATER LEVEL (FEET)
433657110395901	42-115-08dac01	111ALVM	6562.75	--	07-11-97	5.98
433658110400101	42-115-08dab02	111ALVM	6569.35	32.7	07-11-97	12.47
433658110400401	42-115-08dab01	111ALVM	6567.82	28.3	07-11-97	11.52
433700110395501	42-115-08daa01	111ALVM	6564.44	17.5	07-10-97	3.10
433703110395301	42-115-08daa02	111ALVM	6566.84	18.1	07-10-97	7.94
433715110392801	42-115-09bdb01	111ALVM	6590	--	09-25-97	14.60
433932110430801	43-116-25cca01	111ALVM	6455	49	09-23-97	10.33
433939110424001	43-116-25dbd01	111ALVM	6460	48.6	09-23-97	14.71
433939110425601	43-116-25caa01	111ALVM	6462	42.8	09-23-97	13.98
434142110440101	43-116-14abc01	111ALVM	6620	160	09-25-97	35.11
434216110440301	43-116-11dbc01	111ALVM	6660	88	09-27-97	32.00
434234110434401	43-116-11adb01	111ALVM	6685	151	09-27-97	40.42
434438110433701	44-116-26ddd01	111ALVM	6770	95	09-27-97	75.43
434458110433101	44-116-26daa01	111ALVM	6795	250	09-27-97	109.49
434700110424501	44-116-13abd01	111ALVM	6900	--	09-27-97	206.05
434904110364701	45-115-36cac01	111ALVM	6880	119	05-30-97 07-08-97 08-12-97 09-24-97	dry 115.41 111.50 110.11
434920110365601	45-115-36bcd01	111ALVM	6880	119	05-30-97 07-08-97 08-12-97 09-23-97	115.85 116.15 115.99 115.96
434920110370801	45-115-36bcc01	111ALVM	6860	118	05-30-97 07-07-97 08-12-97 09-23-97	100.37 89.63 86.39 87.87
434927110370801	45-115-36bcb01	112TRRC	6890	120	05-30-97 07-08-97 08-12-97 09-23-97	99.77 103.65 104.61 103.92
435018110365601	45-115-25bca01	111ALVM	6780	--	09-27-97	17.88
435025110362801	45-115-25abb01	111ALVM	6930	--	09-27-97	223.94
435039110305001	45-114-23ccd01	111ALVM	6730	--	09-26-97	9.68
435122110351801	45-114-19abb01	112GLCL	6810	--	09-27-97	67.01
435327110375601	45-115-02cdb01	111ALVM	6800	9.4	05-29-97 07-10-97 08-14-97 09-26-97	-.91 .46 1.01 1.45
435342110380801	45-115-02bdd01	111ALVM	6800	12	05-29-97 07-10-97 08-14-97 09-26-97	6.70 11.27 dry 10.18
435354110372401	45-115-02aac02	111ALVM	6814.9	38	05-28-97 07-10-97 08-13-97 09-24-97	1.74 3.50 3.65 4.58
435354110373201	45-115-02aca01	111ALVM	6812.1	5.15	05-28-97 07-10-97 08-13-97 09-24-97	-.53 1.17 1.09 2.34
435355110372401	45-115-02aac01	111ALVM	6815.1	32.8	05-28-97 07-10-97 08-13-97 09-24-97	1.81 3.86 4.04 4.97

GROUND WATER LEVELS

GROUND WATER NEAR WASTEWATER TREATMENT FACILITIES, GRAND TETON NATIONAL PARK--Continued

SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ELEVATION OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER-LEVEL DATE	WATER LEVEL (FEET)
435357110374101	45-115-02abc01	111ALVM	6810.20	38.3	05-28-97	2.13
					07-09-97	2.92
					08-13-97	2.70
					09-24-97	3.17
435403110372001	45-115-02aab01	111ALVM	6820.4	32.5	05-28-97	3.10
					07-10-97	8.39
					08-13-97	8.91
					09-24-97	9.90
435407110374001	45-115-02abb01	111ALVM	6820	36.3	05-28-97	.71
					07-10-97	8.47
					08-13-97	9.13
					09-24-97	10.09
435427110350901	46-114-31ca1	111ALVM	6905	175	09-27-97	26.36
435512110335801	46-114-29db2	111ALVM	6976.8	250	09-27-97	50.56
435519110335401	46-114-29db1	111ALVM	6981.5	200	09-27-97	44.30
435555110382001	46-115-23ccc01	111ALVM	6829	--	09-26-97	65.68
440018110405201	47-115-31ca01	111ALVM	6830	--	09-26-97	18.51
440553110401301	48-115-28acb01	111ALVM	6820	--	09-26-97	7.55
440640110401001	48-115-21bca01	111ALVM	6838.02	47.3	09-25-97	26.49
440643110400101	48-115-21bdb01	111ALVM	6844.78	48.0	09-25-97	32.68
440645110401101	48-115-21bc02	111ALVM	6820	--	05-29-97	19.83
					07-08-97	22.37
					08-14-97	24.72
					09-25-97	26.24
440645110402001	48-115-21bc01	111ALVM	6837	37.3	05-29-97	18.22
					07-08-97	20.57
					08-14-97	22.85
					09-25-97	24.34
440657110402601	48-115-21bb02	111ALVM	6836	--	05-29-97	-2.85
					07-08-97	19.99
					08-13-97	1.50
					09-26-97	3.32
440659110402001	48-115-21bb01	111ALVM	6846	--	05-29-97	-.98
					07-08-97	.18
					08-13-97	26.15
					09-26-97	5.49
440701110402501	48-115-16cc01	111ALVM	6859	27.1	05-29-97	14.15
					07-08-97	15.62
					08-13-97	17.95

PESTICIDE AND NUTRIENT SAMPLING PROGRAM
(Water levels are at depth below land surface, in feet)

GOSHEN COUNTY

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

WELL NUMBER	STATION NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	DATE	TIME	DEPTH BELOW LAND SURFACE (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARDS) (00400)
W25	420240104103001	24-061-22aba01	111ALVM	04-24-97	1200	5.6	27	4075	980	7.4
W25c	420241104105301	24-061-22bab01	111ALVM	04-24-97	1450	7.1	36	4180	260	7.2
W21	420531104100201	25-061-34dda01	111TRRC	04-24-97	0915	7.2	23	4175	2500	7.1
			111TRRC	08-27-97	0930	4.7			2470	6.9
W15	420703104133002	25-061-29bbb02	111TRRC	08-27-97	1145	87.8	95.5	4246	1380	7.6

STATION NUMBER	DATE	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L) AS P) (00671)	2,4-D, DIS- SOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	ALDI- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALDI- CARB SULFONE WAT,FLT REC (UG/L) (49313)
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EPA DRINKING WATER
STANDARD (MCL)

-- 1 10 -- -- 70 -- 2 3 2

420240104103001	04-24-97	11.0	ND(0.01)	1.2	1.5	0.01	ND(0.035)	ND(0.035)	ND(0.05)	ND(0.016)	ND(0.016)
420241104105301	04-24-97	12.5	ND(0.01)	0.14	11	0.02	ND(0.035)	ND(0.035)	ND(0.05)	ND(0.016)	ND(0.016)
420531104100201	04-24-97	9.5	0.04	5.9	0.10	0.17	ND(0.035)	ND(0.035)	ND(0.05)	ND(0.016)	ND(0.016)
	08-27-97	12.5	0.05	13	0.04	0.15	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
420703104133002	08-27-97	15.0	ND(0.01)	21	0.02	0.03	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)

ND() - Indicates compound not detected. Value in parenthesis is method reporting limit.

STATION NUMBER	DATE	ALDICA- RB SUL- FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	BRO- MACIL, WATER, DISS, REC (UG/L) (04029)	CLOPYR- ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)
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EPA DRINKING WATER
STANDARD (MCL)

4 3 -- -- -- 0.9 16,140 -- 969

420240104103001	04-24-97	ND(0.021)	E0.030	ND(0.05)	ND(0.035)	ND(0.05)	ND(0.20)	E0.001	ND(0.002)	ND(0.035)
420241104105301	04-24-97	ND(0.021)	ND(0.05)	E0.043	ND(0.035)	ND(0.05)	ND(0.20)	ND(0.002)	ND(0.002)	ND(0.035)
420531104100201	04-24-97	ND(0.021)	0.15	0.11	ND(0.035)	ND(0.05)	E0.032	ND(0.002)	ND(0.002)	ND(0.035)
	08-27-97	ND(0.021)	0.213	E0.096	ND(0.035)	ND(0.05)	0.011	ND(0.002)	ND(0.002)	ND(0.035)
420703104133002	08-27-97	ND(0.021)	0.946	E0.358	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)

E-Estimate.

ND() - Indicates compound not detected. Value in parenthesis is method reporting limit.

STATION NUMBER	DATE	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34704)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34699)	HEXA- ZINONE, WATER, DISS, REC (UG/L) (04025)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	PIC- LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
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EPA DRINKING WATER
STANDARD (MCL)

10 10 1,065 4,840 807 500 -- 4 2,260

420240104103001	04-24-97	ND(1)	ND(1)	ND(0.05)	E0.026	ND(0.05)	ND(0.05)	0.14	ND(0.05)	ND(0.01)
420241104105301	04-24-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	0.13	ND(0.05)	0.022
420531104100201	04-24-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.01)
	08-27-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	ND(0.018)	E0.003	ND(0.01)
420703104133002	08-27-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	0.729	0.038	ND(0.01)

E-Estimate.

ND() - Indicates compound not detected. Value in parenthesis is method reporting limit.

GEOLOGIC UNIT (AQUIFER)

111ALVM HOLOCENE ALLUVIUM	122MOCN MIOCENE SERIES	211FRNR FRONTIER FORMATION	237TYNS THAYNES LIMESTONE
111TRRC TERRACE DEPOSITS	123WRVR WHITE RIVER FORMATION	211MVRD MESAVERDE FORMATION	317CSFR CASPER FORMATION
112TRRC TERRACE DEPOSITS	OR GROUP	OR GROUP	317FNTN FOUNTAIN FORMATION
120TRTR TERTIARY SYSTEM	124WLWD WILLWOOD FORMATION	211NBRR NIOBRARA FORMATION	317STNK SATANKA FORMATION
121SLLK SALT LAKE FORMATION	124WSTC WASATCH FORMATION	231CGTR CHUGWATER FORMATION	331MDSN MADISON LIMESTONE
122ARKR ARIKAREE FORMATION	125FRUN FORT UNION FORMATION	OR GROUP	400PCMB PRECAMBRIAN ERATHEM

QUALITY OF GROUND WATER
PESTICIDE AND NUTRIENT SAMPLING PROGRAM--Continued
PARK COUNTY

WATER QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

WELL NUMBER	STATION NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)
P27	441842108433601	50-099-14bad01	111ALVM	08-13-97	1320	E30	80	5125	1300	8.0
P28	442222108383101	51-098-21dcc01	124WLWD	08-13-97	1545	43.6	140	4860	1740	7.7
P22	442426109163601	51-103-08cbb01	111ALVM	04-20-97	1445	16.7	50	5510	464	7.1
			111ALVM	08-07-97	0930	12.6			476	7.0
P14	443254109000601	53-101-27abd01	111TRRC	04-18-97	1100	46.9	80	4885	792	7.4
			111TRRC	08-07-97	1245	42.3			851	7.3
P20	443254109041501	53-101-30bac01	111TRRC	04-19-97	1500	35.8	60	5100	1360	7.4
			111TRRC	08-08-97	1310	26.2			1190	7.3
P18	443343109004001	53-101-22bac01	111TRRC	04-19-97	1020	41.7	100	4985	2590	7.2
			111TRRC	08-09-97	1615	27.6			1830	7.2
P16	443533108581001	53-101-12bab01	111TRRC	04-18-97	1500	36.7	72	4780	1280	7.3
			111TRRC	08-08-97	1800	32.6			1320	7.2
P2	443720108573101	54-101-36aca01	111TRRC	04-14-97	1400	26.4	60	4700	1680	7.4
			111TRRC	08-06-97	0830	21.0			1590	7.2
P23	444106108565601	54-100-06cac01	111TRRC	04-20-97	2015	55.0	90	4725	650	7.8
			111TRRC	08-08-97	1630	50.0			750	7.8
P5	444147108472802	55-099-33cbd02	111TRRC	04-15-97	1715	9.6	40	4370	880	7.3
			111TRRC	08-08-97	0810	8.1			803	7.3
P10	444212108390801	55-098-34bcc01	111TRRC	04-17-97	1145	9.7	94	4250	2050	7.3
			111TRRC	08-05-97	1530	8.5			2850	7.1
P4	444300108463601	55-099-22ccc01	111TRRC	04-15-97	1115	18.1	90	4425	770	7.4
			111TRRC	08-05-97	1845	9.6			585	7.3
P21	444301108491701	55-099-30daa01	111TRRC	04-20-97	1420	11.7	38	4485	715	7.6
			111TRRC	08-09-97	1800	5.4			722	7.6
P12	444420108480101	55-099-20aaa01	111TRRC	04-17-97	1600	11.8	70	4460	558	7.6
			111TRRC	08-05-97	0940	6.6			513	7.6
P6	444434108453101	55-099-15dda01	111TRRC	04-15-97	1430	8.7	45	4405	862	7.5
			111TRRC	08-04-97	1820	5.0			724	7.5
P7	444453108452301	55-099-14bcd01	111TRRC	04-16-97	1400	7.8	18	4390	849	7.5
			111TRRC	08-09-97	1640	7.2			874	7.3
P11	444454109010201	55-101-15bbb01	111TRRC	04-17-97	1030	22.4	110	5076	800	8.0
			111TRRC	08-09-97	1350	14.0			798	7.9
P9	444507108555801	55-100-17bba01	111TRRC	04-16-97	1715	14.0	110	4790	1200	8.3
			111TRRC	08-09-97	0820	9.1			1110	8.0
P3	444514108420601	55-098-18aaa01	111TRRC	04-15-97	1315	14.8	50	4360	945	7.8
				08-10-97	1245	8.4			611	7.8
P19	444514108545401	55-100-09ccc01	111TRRC	04-19-97	1015	8.3	90	4722	1170	7.8
			111TRRC	08-09-97	1050	5.0			1200	7.7
P13	444601108464601	55-099-10bbb01	111TRRC	04-17-97	1700	8.9	18	4405	950	7.6
			111TRRC	08-10-97	1510	6.2			872	7.4
P15	444602108464601	55-099-25ccb01	111TRRC	04-18-97	1415	11.9	70	4340	860	7.7
			111TRRC	08-08-97	1010	5.4			620	7.3
P1	444603108383401	55-098-03dcc01	111TRRC	04-15-97	1030	9.2	35	4220	740	7.5
			111TRRC	08-08-97	1000	4.3			798	7.3
P25	444633108450401	55-099-02bdd01	111TRRC	04-21-97	1100	10.4	20	4365	895	7.3
			111TRRC	08-05-97	1245	7.1			587	7.5
P8	444649108430801	55-099-01aad01	111TRRC	04-16-97	1400	8.4	20	4320	1380	7.4
			111TRRC	04-16-97	1405	8.4			1380	7.4
			111TRRC	08-07-97	1600	5.8			1330	7.4
P17	444700108415901	56-098-31ddd01	111TRRC	04-18-97	1800	6.4	9	4300	2050	7.4
			111TRRC	08-10-97	1245	4.5			2280	7.2
P24	445439109085901	57-102-23bda01	111TRRC	04-21-97	1100	22.5	28	4205	215	8.0
			111TRRC	08-08-97	1500	2.7			278	7.8

E-Estimate.

PESTICIDE AND NUTRIENT SAMPLING PROGRAM--Continued

PARK COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

STATION NUMBER	DATE	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, NITRITE	NITRO- GEN, NO2+NO3	NITRO- GEN, AMMONIA	PHOS- PHORUS ORTHO,	2,4-D, DIS- SOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U	ALA- CHLOR, WATER, DISS, REC,	ALDI- CARB, WATER, FLTRD, GF 0.7U	ALDI- CARB SULFONE WAT,FLT GF 0.7U
			DIS- SOLVED (MG/L AS N) (00613)	DIS- SOLVED (MG/L AS N) (00631)	DIS- SOLVED (MG/L AS N) (00608)	DIS- SOLVED (MG/L AS P) (00671)		REC, (UG/L) (38746)	REC, (UG/L) (46342)	REC (UG/L) (49312)	REC (UG/L) (49313)
			--	1	10	--		--	70	--	2
EPA DRINKING WATER STANDARD (MCL)											
441842108433601	08-13-97	11.0	ND(0.01)	ND(0.05)	0.80	ND(0.01)	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
442222108383101	08-13-97	10.5	0.01	0.05	0.88	0.01	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
442426109163601	04-20-97	10.5	ND(0.01)	0.24	ND(0.01)	0.09	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
	08-07-97	11.5	ND(0.01)	0.43	ND(0.01)	0.08	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
443254109000601	04-18-97	12.5	ND(0.01)	1.3	ND(0.01)	0.03	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
443254109041501	08-07-97	17.5	ND(0.01)	1.9	ND(0.01)	0.04	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
	04-19-97	12.5	ND(0.01)	3.9	0.03	0.01	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
	08-08-97	10.0	ND(0.01)	4.9	0.02	0.01	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
443343109004001	04-19-97	11.5	ND(0.01)	2.1	0.02	ND(0.01)	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
	08-09-97	12.0	ND(0.01)	6.3	0.02	0.01	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
443533108581001	04-18-97	10.5	ND(0.01)	2.7	0.05	ND(0.01)	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
	08-08-97	18.0	ND(0.01)	20	ND(0.01)	0.01	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
443720108573101	04-14-97	10.5	ND(0.01)	3.3	ND(0.01)	0.02	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
	08-06-97	12.5	ND(0.01)	3.0	0.03	0.02	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
444106108565601	04-20-97	10.0	ND(0.01)	5.6	ND(0.01)	ND(0.01)	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
444147108472802	08-08-97	12.0	ND(0.01)	6.1	ND(0.01)	0.01	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
	04-15-97	7.0	ND(0.01)	8.9	ND(0.01)	0.01	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	0.36
	08-08-97	12.5	ND(0.01)	9.0	0.02	0.01	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	0.14
444212108390801	04-17-97	10.5	ND(0.01)	4.1	0.02	0.04	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	0.10
	08-05-97	15.0	0.01	10	0.03	0.03	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
444300108463601	04-15-97	10.0	ND(0.01)	3.2	ND(0.01)	0.01	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
	08-05-97	15.0	ND(0.01)	1.3	0.02	0.01	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
444301108491701	04-20-97	10.0	ND(0.01)	5.6	ND(0.01)	ND(0.01)	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
	08-09-97	11.0	ND(0.01)	4.2	ND(0.01)	0.01	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
444420108480101	04-17-97	10.5	ND(0.01)	2.2	ND(0.01)	0.01	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	0.08
444434108453101	08-05-97	12.0	0.005	1.7	0.02	0.01	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	0.09
	04-15-97	9.0	ND(0.01)	7.9	ND(0.01)	0.02	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
	08-04-97	13.0	ND(0.01)	5.4	0.02	0.02	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
444453108452301	04-16-97	7.5	ND(0.01)	6.6	ND(0.01)	0.02	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
	08-09-97	14.0	ND(0.01)	7.4	ND(0.01)	0.02	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
444454109010201	04-17-97	10.0	ND(0.01)	1.5	ND(0.01)	ND(0.01)	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
	08-09-97	10.5	ND(0.01)	1.6	ND(0.01)	ND(0.01)	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
444507108555801	04-16-97	11.0	0.02	0.32	0.06	ND(0.01)	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
	08-09-97	9.5	ND(0.01)	1.1	0.03	ND(0.01)	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
444514108420601	04-15-97	10.5	ND(0.01)	3.0	ND(0.01)	ND(0.01)	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
444514108545401	08-10-97	12.0	ND(0.01)	1.1	0.06	ND(0.01)	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
	04-19-97	9.5	ND(0.01)	2.1	0.10	ND(0.01)	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
	08-09-97	9.5	ND(0.01)	2.1	0.08	ND(0.01)	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
444601108464601	04-17-97	5.0	ND(0.01)	6.1	0.02	ND(0.01)	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
	08-10-97	15.5	ND(0.01)	6.7	0.06	0.01	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
444602108464601	04-18-97	7.5	ND(0.01)	0.56	0.01	0.02	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
	08-08-97	14.5	ND(0.01)	1.3	ND(0.01)	0.03	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
444603108383401	04-15-97	9.0	ND(0.01)	5.8	ND(0.01)	0.04	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
	08-08-97	12.0	ND(0.01)	19	ND(0.01)	0.02	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	0.30
444633108450401	04-21-97	9.0	ND(0.01)	8.2	ND(0.01)	0.04	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	0.35
444649108430801	08-05-97	11.0	ND(0.01)	1.4	0.03	0.03	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	0.14
	04-16-97	9.5	ND(0.01)	8.0	ND(0.01)	0.01	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
	04-16-97	9.5	ND(0.01)	8.0	ND(0.01)	0.01	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
444700108415901	08-07-97	10.5	ND(0.01)	8.8	ND(0.01)	0.02	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
	04-18-97	6.5	0.01	12	0.02	0.02	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
445439109085901	08-10-97	12.5	0.02	10	0.02	0.21	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
	04-21-97	10.0	ND(0.01)	0.40	ND(0.01)	ND(0.01)	ND(0.035)	ND(0.035)	ND(0.005)	ND(0.016)	ND(0.016)
	08-08-97	14.5	ND(0.01)	2.0	0.02	0.13	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)

ND() - Indicates compound not detected. Value in parenthesis is method reporting limit.

QUALITY OF GROUND WATER

PESTICIDE AND NUTRIENT SAMPLING PROGRAM--Continued

PARK COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

STATION NUMBER	DATE	ALDICA- RB SUL- FOXIDE, WAT, FLT GF 0.7U REC (UG/L) (49314)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	BRO- MACIL, WATER, DISS, REC (UG/L) (04029)	CLOPYR- ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)
EPA DRINKING WATER STANDARD (MCL)		4	3	--	--	--	0.9	16,140	--	969
441842108433601	08-13-97	ND(0.021)	ND(0.001)	ND(0.002)	ND(0.035)	ND(0.050)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
442222108383101	08-13-97	ND(0.021)	ND(0.001)	ND(0.002)	ND(0.035)	ND(0.050)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
442426109163601	04-20-97	ND(0.021)	ND(0.001)	ND(0.05)	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-07-97	ND(0.021)	ND(0.001)	ND(0.002)	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
443254109000601	04-18-97	ND(0.021)	0.005	EO.018	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-07-97	ND(0.021)	0.007	EO.004	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
443254109041501	04-19-97	ND(0.021)	EO.003	ND(0.05)	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-08-97	ND(0.021)	0.005	ND(0.002)	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
443343109004001	04-19-97	ND(0.021)	ND(0.001)	ND(0.05)	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-09-97	ND(0.021)	ND(0.001)	ND(0.002)	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
443533108581001	04-18-97	ND(0.021)	EO.002	ND(0.05)	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-08-97	ND(0.021)	EO.004	ND(0.002)	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
443720108573101	04-14-97	ND(0.021)	0.011	EO.021	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-06-97	ND(0.021)	0.010	EO.009	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
444106108565601	04-20-97	ND(0.021)	0.184	0.095	ND(0.05)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-08-97	ND(0.021)	0.158	EO.034	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
444147108472802	04-15-97	0.47	0.025	EO.030	ND(0.05)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-08-97	0.25	0.032	EO.011	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
444212108390801	04-17-97	ND(0.021)	EO.003	ND(0.05)	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-05-97	ND(0.021)	EO.004	ND(0.002)	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
444300108463601	04-15-97	ND(0.021)	0.028	EO.031	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-05-97	ND(0.021)	EO.003	ND(0.002)	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
444301108491701	04-20-97	ND(0.021)	EO.004	ND(0.05)	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-09-97	ND(0.021)	0.004	ND(0.002)	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
444420108480101	04-17-97	0.06	0.005	ND(0.05)	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-05-97	0.11	0.006	ND(0.002)	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
444434108453101	04-15-97	ND(0.021)	0.019	EO.019	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-04-97	ND(0.021)	0.015	EO.003	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
444453108452301	04-16-97	ND(0.021)	0.016	EO.018	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-09-97	ND(0.021)	0.016	EO.004	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
444454109010201	04-17-97	ND(0.021)	EO.003	ND(0.05)	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-09-97	ND(0.021)	0.005	ND(0.002)	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
444507108555801	04-16-97	ND(0.021)	ND(0.001)	ND(0.05)	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-09-97	ND(0.021)	ND(0.001)	ND(0.002)	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
444514108420601	04-15-97	ND(0.021)	0.004	ND(0.05)	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-10-97	ND(0.021)	0.005	EO.002	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
444514108545401	04-19-97	ND(0.021)	EO.003	ND(0.05)	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-09-97	ND(0.021)	0.004	EO.003	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
444601108464601	04-17-97	ND(0.021)	0.005	ND(0.05)	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-10-97	ND(0.021)	0.008	EO.004	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
444602108464601	04-18-97	ND(0.021)	0.022	EO.025	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-08-97	ND(0.021)	0.011	EO.005	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
444603108383401	04-15-97	0.06	0.015	EO.019	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-08-97	E2.5	ND(0.001)	EO.004	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
444633108450401	04-21-97	0.46	0.019	EO.021	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-05-97	0.07	0.014	EO.004	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
444649108430801	04-16-97	ND(0.021)	0.006	EO.018	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	04-16-97	ND(0.021)	0.006	EO.018	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-07-97	ND(0.021)	0.006	EO.004	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
444700108415901	04-18-97	ND(0.021)	0.011	EO.018	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-10-97	ND(0.021)	0.007	EO.003	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
445439109085901	04-21-97	ND(0.021)	ND(0.001)	ND(0.05)	ND(0.035)	ND(0.05)	ND(0.2)	ND(0.002)	ND(0.002)	ND(0.035)
	08-08-97	ND(0.021)	ND(0.001)	ND(0.002)	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)

E-Estimate.

ND() - Indicates compound not detected. Value in parenthesis is method reporting limit.

PESTICIDE AND NUTRIENT SAMPLING PROGRAM--Continued

PARK COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

STATION NUMBER	DATE	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34704)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34699)	HEXA- ZINONE, WATER, DISS, REC (UG/L) (04025)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	PIC- LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
EPA DRINKING WATER STANDARD (MCL)		10	10	1,065	4,840	807	500	--	4	2,260
441842108433601	08-13-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	ND(0.018)	ND(0.005)	ND(0.01)
442222108383101	08-13-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	ND(0.018)	ND(0.005)	ND(0.01)
442426109163601	04-20-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.01)
	08-07-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	ND(0.018)	ND(0.005)	ND(0.01)
443254109000601	04-18-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.01)
	08-07-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	E0.004	ND(0.005)	ND(0.01)
443254109041501	04-19-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.01)
	08-08-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	E0.004	ND(0.005)	ND(0.01)
443343109004001	04-19-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.01)
	08-09-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	ND(0.018)	ND(0.005)	ND(0.01)
443533108581001	04-18-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.01)
	08-08-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	ND(0.018)	ND(0.005)	ND(0.01)
443720108573101	04-14-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.01)
	08-06-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	E0.008	ND(0.005)	ND(0.01)
444106108565601	04-20-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.01)
	08-08-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	E0.004	ND(0.005)	ND(0.01)
444147108472802	04-15-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.01)
	08-08-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	ND(0.018)	ND(0.005)	ND(0.01)
444212108390801	04-17-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	0.083	ND(0.05)	ND(0.01)
	08-05-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	0.172	ND(0.005)	ND(0.01)
444300108463601	04-15-97	ND(1)	ND(1)	0.062	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.01)
	08-05-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	ND(0.018)	ND(0.005)	ND(0.01)
444301108491701	04-20-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.01)
	08-09-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	E0.009	E0.003	ND(0.01)
444420108480101	04-17-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	0.015
	08-05-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	ND(0.018)	ND(0.005)	ND(0.01)
444434108453101	04-15-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	E0.029	ND(0.05)	ND(0.01)
	08-04-97	ND(1)	ND(1)	--	E0.004	ND(0.004)	ND(0.05)	E0.012	ND(0.005)	ND(0.01)
444453108452301	04-16-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	0.45	ND(0.05)	0.242
	08-09-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	0.494	0.006	0.218
444454109010201	04-17-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.01)
	08-09-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	ND(0.018)	ND(0.005)	ND(0.01)
444507108555801	04-16-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.01)
	08-09-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	ND(0.018)	ND(0.005)	ND(0.01)
444514108420601	04-15-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	0.064	ND(0.05)	ND(0.01)
	08-10-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	0.021	ND(0.005)	ND(0.01)
444514108545401	04-19-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	E0.029	ND(0.05)	ND(0.01)
	08-09-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	E0.013	E0.003	ND(0.01)
444601108464601	04-17-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.01)
	08-10-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	E0.004	0.006	ND(0.01)
444602108464601	04-18-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.01)
	08-08-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	E0.005	E0.004	ND(0.01)
444603108383401	04-15-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	0.46	ND(0.05)	ND(0.05)	ND(0.01)
	08-08-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	ND(0.018)	ND(0.005)	ND(0.01)
444633108450401	04-21-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.01)
	08-05-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	E0.007	E0.005	ND(0.01)
444649108430801	04-16-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.01)
	04-16-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.01)
	08-07-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	ND(0.018)	ND(0.005)	ND(0.01)
444700108415901	04-18-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.01)
	08-10-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	ND(0.018)	ND(0.005)	ND(0.01)
445439109085901	04-21-97	ND(1)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.01)
	08-08-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.038)	ND(0.05)	ND(0.018)	ND(0.005)	ND(0.01)

E-Estimate.

ND() - Indicates compound not detected. Value in parenthesis is method reporting limit.

QUALITY OF GROUND WATER

PESTICIDE AND NUTRIENT SAMPLING PROGRAM--Continued

WASHAKIE COUNTY

WATER QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

WELL NUMBER	STATION NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)
W10	435402108052101	45-094-01bcc01	111ALVM	08-14-97	0950	9.7	27	4148	1160	7.3
W4	435814107580201	46-093-12dbb01	111ALVM	08-12-97	1525	4.8	35	4155	775	7.6
W13	435819107580601	46-093-11add01	111ALVM	08-14-97	1140	6.1	30	4150	1070	7.4
W8	435844108005601	46-093-03cdc01	124WLWD	08-13-97	0940	16.8	75	4155	1090	7.5
W12	435850107574001	46-093-01dcc01	124WLWD	08-14-97	1450	13.9	85	4140	963	7.6
W6	435854107573101	46-093-01dca01	124WLWD	08-12-97	1800	21.3	80	4140	1270	7.6
W5	435935108104601	46-094-06baa01	111ALVM	08-12-97	1000	15.0	55	4455	1600	8.3
W3	440031107573701	47-093-25cdd01	111ALVM	08-11-97	1435	7.1	60	4064	1930	7.2
W1	440035107564801	47-092-30ccc01	111ALVM	08-11-97	1145	16.7	46	4084	2810	7.2
W11	440117107571501	47-093-25aba01	111ALVM	08-14-97	0845	8.7	15	4055	3000	7.2
W7	440232107561201	47-092-18dbc01	124WLWD	08-12-97	1315	10.8	125	4035	2100	8.4
W9	440558107551101	48-092-29cad01	124WLWD	08-12-97	1600	3.1	150	3995	2570	7.3
W2	440821107550901	48-092-08cdd01	111ALVM	08-12-97	1000	7.4	30	3960	7140	7.2

STATION NUMBER	DATE	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (39732)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (38746)	ALDI- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (46342)	ALDI- CARB SULFONE WAT,FLT REC (UG/L) (49312)
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EPA DRINKING WATER
STANDARD (MCL)

		--	1	10	--	--	70	--	2	3	2
435402108052101	08-14-97	11.5	ND(0.01)	9.8	ND(0.01)	0.01	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
435814107580201	08-12-97	16.0	ND(0.01)	0.19	ND(0.01)	0.01	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
435819107580601	08-14-97	13.5	ND(0.01)	7.9	0.05	0.02	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
435844108005601	08-13-97	13.5	ND(0.01)	2.9	ND(0.01)	0.01	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
435850107574001	08-14-97	16.0	ND(0.01)	2.4	ND(0.01)	ND(0.01)	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
435854107573101	08-12-97	12.5	ND(0.01)	1.2	ND(0.01)	ND(0.01)	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
435935108104601	08-12-97	11.0	0.01	0.06	0.98	0.01	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
440031107573701	08-11-97	12.5	ND(0.01)	4.5	0.07	0.02	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
440035107564801	08-11-97	12.5	0.02	4.4	0.07	0.03	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
440117107571501	08-14-97	12.5	0.08	1.7	ND(0.01)	0.03	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
440232107561201	08-12-97	12.5	ND(0.01)	ND(0.05)	1.4	0.02	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
440558107551101	08-12-97	12.0	ND(0.01)	3.9	ND(0.01)	0.04	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)
440821107550901	08-12-97	14.5	0.15	79	0.04	0.03	ND(0.035)	ND(0.035)	ND(0.002)	ND(0.016)	ND(0.016)

ND() - Indicates compound not detected. Value in parenthesis is detection limit.

STATION NUMBER	DATE	ALDICA- RB SUL- FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	BRO- MACIL, WATER, DISS, REC (UG/L) (04029)	CLOPYR- ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)
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EPA DRINKING WATER
STANDARD (MCL)

		4	3	--	--	--	0.9	16,140	--	969
435402108052101	08-14-97	ND(0.021)	0.021	E0.01	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
435814107580201	08-12-97	ND(0.021)	0.010	E0.004	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
435819107580601	08-14-97	ND(0.021)	0.008	E0.005	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
435844108005601	08-13-97	ND(0.021)	E0.002	E0.002	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
435850107574001	08-14-97	ND(0.021)	0.005	E0.003	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
435854107573101	08-12-97	ND(0.021)	E0.004	E0.003	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
435935108104601	08-12-97	ND(0.021)	ND(0.001)	ND(0.002)	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
440031107573701	08-11-97	0.14	E0.004	E0.003	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
440035107564801	08-11-97	ND(0.021)	0.006	E0.011	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
440117107571501	08-14-97	ND(0.021)	0.009	E0.01	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
440232107561201	08-12-97	ND(0.021)	ND(0.001)	ND(0.002)	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
440558107551101	08-12-97	ND(0.021)	ND(0.001)	ND(0.002)	ND(0.035)	ND(0.05)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.035)
440821107550901	08-12-97	ND(0.021)	E0.002	ND(0.002)	ND(0.035)	ND(0.05)	0.007	ND(0.002)	ND(0.002)	ND(0.035)

E-Estimate.

ND() - Indicates compound not detected. Value in parenthesis is method reporting limit.

PESTICIDE AND NUTRIENT SAMPLING PROGRAM--Continued

WASHAKIE COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

STATION NUMBER	DATE	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34704)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34699)	HEXA- ZINONE, WATER, DISS, REC (UG/L) (04025)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	PIC- LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
		10	10	1,065	4,840	807	500	--	4	2,260
EPA DRINKING WATER STANDARD (MCL)		10	10	1,065	4,840	807	500	--	4	2,260
435402108052101	08-14-97	ND(1)	ND(1)	--	0.024	ND(0.004)	ND(0.05)	ND(0.018)	ND(0.005)	ND(0.010)
435814107580201	08-12-97	ND(1)	ND(1)	--	E0.003	ND(0.004)	ND(0.05)	E0.007	ND(0.005)	ND(0.010)
435819107580601	08-14-97	ND(1)	ND(1)	--	0.009	ND(0.004)	ND(0.05)	E0.011	E0.003	ND(0.010)
435844108005601	08-13-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	E0.005	ND(0.005)	ND(0.010)
435850107574001	08-14-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	ND(0.018)	ND(0.005)	ND(0.010)
435854107573101	08-12-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	ND(0.018)	ND(0.005)	ND(0.010)
435935108104601	08-12-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	ND(0.018)	ND(0.005)	ND(0.010)
440031107573701	08-11-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	0.131	0.007	E0.006
440035107564801	08-11-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	E0.008	ND(0.005)	ND(0.010)
440117107571501	08-14-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	0.076	ND(0.005)	ND(0.010)
440232107561201	08-12-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	ND(0.018)	ND(0.005)	ND(0.010)
440558107551101	08-12-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	ND(0.018)	ND(0.005)	ND(0.010)
440821107550901	08-12-97	ND(1)	ND(1)	--	ND(0.002)	ND(0.004)	ND(0.05)	E0.006	ND(0.005)	ND(0.010)

E-Estimate.

ND() - Indicates compound not detected. Value in parenthesis is method reporting limit.

QUALITY OF GROUND WATER

RADON IN GROUND WATER SAMPLING PROGRAM
(Water levels are at depth below land surface, in feet)

RADON, COMMON IONS, AND NUTRIENT DATA

ALBANY COUNTY

STATION NUMBER	LOCAL IDENT- IFIER	GEO- LOGIC UNIT	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
410412105301901	13-072-30aca01	317FNTN	05-22-97	1610	9.6	65	7740
410751105243301	13-072-01aab01	400PCMB	05-21-97	1145	17.4	220	8200
411006105524101	14-076-24bcd01	211NBRR	05-22-97	1245	8.0	90	7325
411056106043101	14-077-18adc01	211FRNR	05-22-97	1000	E40	E80	8030
411135105513201	14-075-07cca01	111TRRC	05-20-97	1400	16.1	100	7303
		111TRRC	07-08-97	1456	--		
411428105320601	15-073-25bcd01	317CSPR	05-21-97	1715	65.2	250	7480
411639105340801	15-073-10cdd01	317STNK	05-24-97	0900	--	153	7242
411658105315501	15-073-12cab01	317CSPR	05-20-97	1020	62.0	180	7385
411704105315201	15-073-12bdc01	317STNK	05-21-97	0920	61.4	95	7391
411708105340401	15-073-10bdd01	317STNK	05-24-97	1045	11.6	180	7248
411735105320701	15-073-01ccc01	317CSPR	05-20-97	1615	54.8	130	7372
412502105362301	17-073-29caa01	231CGTR	05-21-97	1445	30.3	160	7148

E-Estimate.

STATION NUMBER	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
410412105301901	05-22-97	403	7.7	6.0	190	3	60	10	7.9
410751105243301	05-21-97	71	7.0	7.5	23	4	7.1	1.2	1.9
411006105524101	05-22-97	2850	7.5	9.5	580	280	120	70	450
411056106043101	05-22-97	332	6.8	6.5	120	--	28	12	17
411135105513201	05-20-97	800	8.1	9.5	340	170	73	37	44
	07-08-97	780	8.1	9.5	--	--	--	--	--
411428105320601	05-21-97	418	7.7	9.0	220	--	53	21	3.1
411639105340801	05-24-97	1140	7.3	7.5	690	480	190	53	12
411658105315501	05-20-97	420	7.7	9.0	220	18	58	17	4.0
411704105315201	05-21-97	410	7.7	9.0	210	19	55	18	2.7
411708105340401	05-24-97	1180	7.2	9.0	750	580	180	75	7.2
411735105320701	05-20-97	470	7.7	9.0	230	28	59	20	6.8
412502105362301	05-21-97	2640	7.5	10.0	1300	1100	260	150	150

STATION NUMBER	DATE	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)
410412105301901	05-22-97	0.3	1.8	187	191	15	4.5	0.5	11
410751105243301	05-21-97	0.2	1	19	20	4.3	0.4	0.7	11
411006105524101	05-22-97	8	4.3	308	300	1100	88	0.4	12
411056106043101	05-22-97	0.7	1.7	--	87	48	9.3	0.5	10
411135105513201	05-20-97	1	0.9	171	180	220	9.8	0.9	17
	07-08-97	--	--	--	--	--	--	--	--
411428105320601	05-21-97	0.1	1.0	--	207	10	2.4	0.2	9.8
411639105340801	05-24-97	0.2	1.5	209	217	480	19	0.3	18
411658105315501	05-20-97	0.1	0.9	198	200	10	6.1	0.1	9.5
411704105315201	05-21-97	0.1	0.9	192	199	9.2	3.7	0.1	9.4
411708105340401	05-24-97	0.1	1.8	166	174	580	9.2	0.5	30
411735105320701	05-20-97	0.2	1.0	202	209	17	6.7	0.1	9.9
412502105362301	05-21-97	2	3.4	146	153	1300	89	0.5	17

QUALITY OF GROUND WATER

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RADON IN GROUND WATER SAMPLING PROGRAM--Continued

RADON, COMMON IONS, AND NUTRIENT DATA--Continued

ALBANY COUNTY--Continued

STATION NUMBER	DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L) AS P) (00671)	RADON 222 TOTAL (PCI/L) (82303)	RN-222 (STANDARD DEVIATION) 2 SIGMA WATER, TOTAL, (PCI/L) (76002)
410412105301901	05-22-97	226	<0.01	0.32	<0.01	<0.01	5700	93
410751105243301	05-21-97	46	<0.01	1.3	<0.01	0.02	8200	106
411006105524101	05-22-97	2060	<0.01	0.58	2.4	<0.01	410	38
411056106043101	05-22-97	192	0.01	2.8	0.03	<0.01	--	--
411135105513201	05-20-97	517	<0.01	1.5	<0.01	0.02	--	--
	07-08-97	--	--	--	--	--	890	33
411428105320601	05-21-97	232	<0.01	1.8	<0.01	<0.01	390	25
411639105340801	05-24-97	911	<0.01	2.2	<0.01	<0.01	1200	42
411658105315501	05-20-97	236	<0.01	2.2	<0.01	<0.01	210	22
411704105315201	05-21-97	228	<0.01	2.2	<0.01	<0.01	230	24
411708105340401	05-24-97	987	<0.01	1.2	0.02	<0.01	770	35
411735105320701	05-20-97	266	<0.01	4.7	<0.01	<0.01	1100	34
412502105362301	05-21-97	2060	<0.01	3.0	<0.01	<0.01	2500	51

RADON AND NITRATE DATA

LINCOLN COUNTY

STATION NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
423509110541801	30-118-17bdd01	111ALVM	06-26-97	1601	1.5	26	6750	436
423818110574101	31-119-26dbc01	121SLLK	06-26-97	1447	88.9	126	6520	522
424402111001001	32-119-28bad01	111ALVM	11-04-96	1610	158.9	230	6240	450
424516110595001	32-119-16dbd02	111ALVM	11-04-96	1515	19.6	80	6085	500
			06-26-97	0928	16.8			486
424519110595601	32-119-16dbd01	111ALVM	11-04-96	1430	19.0	55	6090	660
			06-26-97	0831	11.2			707
424521110595201	32-119-16daa01	111ALVM	11-04-96	1650	20.0	70	6080	655
424732111003101	32-119-04bba01	111ALVM	06-26-97	1048	25.4	90	6055	896
424756110594801	33-119-35dac01	111ALVM	06-25-97	1832	4.8	65	6035	927
424839110595101	33-119-26dda01	111ALVM	06-26-97	1145	--	23	6025	994
424941110595501	33-119-23dbc01	237TYNS	06-26-97	1312	--	510	6030	9840
425758111004101	34-119-02bbc01	111ALVM	06-25-97	1715	--	135	5840	329
430046111004301	35-119-15ddd01	111ALVM	11-04-96	1240	39.7	30	5760	610
			06-25-97	1507	22.9			617
430126111004301	35-119-10dda01	111ALVM	11-04-96	1200	56.3	100	5800	550
			06-25-97	1413	44.3			611
430136111004001	35-119-11ccb01	111ALVM	11-04-96	1100	78.7	100	5820	600
			06-25-97	1242	70.9			592
431041111003201	37-118-20dac01	331MDSN	06-25-97	1137	183.9	480	5775	548

E-Estimate.

QUALITY OF GROUND WATER

RADON IN GROUND WATER SAMPLING PROGRAM--Continued

RADON AND NITRATE DATA--Continued

LINCOLN COUNTY--Continued

STATION NUMBER	DATE	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	RADON 222 TOTAL (PCI/L) (82303)	RN-222 (STANDARD DEVIATION) 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)
423509110541801	06-26-97	7.6	8.5	--	--	--	--	1600	49
423818110574101	06-26-97	7.4	9.0	--	--	--	--	620	36
424402111001001	11-04-96	--	9.0	0.02	0.68	0.02	0.03	--	--
424516110595001	11-04-96	--	9.0	0.02	11	0.02	0.07	--	--
	06-26-97	7.7	10.0	<0.01	7.1	0.02	0.06	--	--
424519110595601	11-04-96	--	8.5	0.03	14	0.02	0.11	--	--
	06-26-97	7.7	9.0	--	--	--	--	470	36
424521110595201	11-04-96	--	8.5	0.03	11	0.02	0.09	--	--
424732111003101	06-26-97	7.8	9.0	<0.01	0.23	0.02	0.02	850	41
424756110594801	06-25-97	7.8	9.5	--	--	--	--	690	31
424839110595101	06-26-97	7.5	8.0	--	--	--	--	640	38
424941110595501	06-26-97	--	51.0	--	--	--	--	150	30
425758111004101	06-25-97	8.1	10.5	<0.01	0.08	1.2	0.02	--	--
430046111004301	11-04-96	--	9.0	0.02	7.4	0.02	<0.01	--	--
	06-25-97	7.5	10.0	<0.01	7.1	0.02	0.02	430	27
430126111004301	11-04-96	--	9.0	0.02	4.6	0.02	<0.01	--	--
	06-25-97	7.6	11.5	<0.01	13	<0.01	<0.01	320	24
430136111004001	11-04-96	7.3	8.5	0.02	8	0.02	<0.01	--	--
	06-25-97	7.6	10.0	<0.01	9.3	<0.01	<0.01	--	--
431041111003201	06-25-97	7.6	10.5	<0.01	0.34	0.03	<0.01	230	23

RADON DATA

CARBON COUNTY

STATION NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
412215106543201	16-085-12bcd01	120TRTR	06-30-97	1715	41.0	123	7130
412329106440001	16-083-04bad01	111ALVM	07-01-97	0935	7.3	95	6870
412418107004101	17-085-31bda01	120TRTR	06-30-97	1500	17.0	112	7230
412528106404601	17-083-24cdd01	120TRTR	07-01-97	1125	11.3	40	7130
413103106524801	18-084-20cba01	111ALVM	07-01-97	1410	5.2	83	6710
413558106434001	19-083-22ccb01	111ALVM	06-30-97	1200	3.7	50	6935
414735107183701	21-088-14bcb01	120TRTR	07-01-97	1800	SP	SP	7090

SP-Spring.

STATION NUMBER	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	RADON 222 TOTAL (PCI/L) (82303)	RN-222 (STANDARD DEVIATION) 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)
412215106543201	06-30-97	805	7.4	11.0	950	39
412329106440001	07-01-97	769	7.7	9.5	3600	60
412418107004101	06-30-97	1490	8.1	9.0	1700	48
412528106404601	07-01-97	1610	7.5	8.5	1100	36
413103106524801	07-01-97	1080	7.1	9.0	950	33
413558106434001	06-30-97	1040	7.2	8.5	610	34
414735107183701	07-01-97	479	7.6	11.0	6100	74

RADON IN GROUND WATER SAMPLING PROGRAM--Continued

RADON DATA--Continued

CONVERSE COUNTY

STATION NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
424050105034701	31-068-07bab01	122MOCN	06-23-97	1608	44.4	85	4815
424216105243601	32-071-31aab01	123WRVR	06-23-97	1316	160.5	180	4820
424617105143201	32-070-03cac01	124WSTC	06-24-97	0955	203.8	400	5250
424823105490201	33-075-23cad01	211MVRD	06-24-97	1705	E45.0	130	5110
425554105015601	34-068-09cdc01	125FRUN	06-23-97	1815	135.0	182	4985
432333105524701	40-074-32dad01	124WSTC	06-24-97	1331	77.0	160	5300

E-Estimate.

STATION NUMBER	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	RADON 222 TOTAL (PCI/L) (82303)	RN-222 (STANDARD DEVIATION) 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)
424050105034701	06-23-97	2110	7.7	12.0	1600	40
424216105243601	06-23-97	1930	8.0	13.0	2900	52
424617105143201	06-24-97	655	8.4	12.0	770	31
424823105490201	06-24-97	7110	7.2	14.0	1100	37
425554105015601	06-23-97	1470	7.2	12.5	180	21
432333105524701	06-24-97	919	7.2	11.5	1400	39

PARK COUNTY

STATION NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)
443343109004001	53-101-22bac01	111TRRC	08-09-97	1615	27.6
442426109163601	51-103-08cbb01	111ALVM	08-07-97	0930	12.6
444633108450401	55-099-02bdd01	111TRRC	08-05-97	1245	7.1
444212108390801	55-098-34bcc01	111TRRC	08-05-97	1530	8.5
444420108480101	55-099-20aaa01	111TRRC	08-05-97	0940	6.6

STATION NUMBER	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	RADON 222 TOTAL (PCI/L) (82303)	RN-222 (STANDARD DEVIATION) 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)
443343109004001	100	4985	1830	7.2	12.0	480	34
442426109163601	50	5510	476	7.0	11.5	280	41
444633108450401	20	4365	587	7.5	11.0	390	25
444212108390801	94	4250	2850	7.1	15.0	1300	37
444420108480101	70	4460	513	7.6	12.0	350	24

QUALITY OF GROUND WATER

RADON IN GROUND WATER SAMPLING PROGRAM--Continued

RADON DATA--Continued

PLATTE COUNTY

STATION NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
414356104435201	20-066-01cbb01	122ARKR	06-18-97	1520	E50.0	100	5430
420425105022401	24-068-08bbb01	122ARKR	06-19-97	1445	4.6	80	4740
420613104571301	25-068-36aba01	122ARKR	06-18-97	1340	46.9	--	4625
420754104551201	25-067-20baa01	111ALVM	06-18-97	1730	6.9	107	4460
421425104573501	26-068-12caa01	122ARKR	06-19-97	1630	278.8	340	4830
421907104405801	27-065-17abc01	122ARKR	06-19-97	1115	48.7	227	4670

E-Estimate.

STATION NUMBER	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	RADON 222 TOTAL (PCI/L) (82303)	RN-222 (STANDARD DEVIATION) 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)
414356104435201	06-18-97	553	7.6	11.5	880	34
420425105022401	06-19-97	1460	7.2	11.5	520	34
420613104571301	06-18-97	822	7.6	13.5	260	24
420754104551201	06-18-97	461	7.6	14.5	530	28
421425104573501	06-19-97	450	7.7	16.0	510	34
421907104405801	06-19-97	1270	7.0	15.5	7000	96

SUBLETTE COUNTY

STATION NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
423104110080401	29-112-12abb01	124WSTC	06-24-97	1322	26.7	110	6880
424301109322501	32-107-25aad01	124WSTC	06-23-97	1942	11.7	75	7190
425105109474201	33-108-07bab01	111TRRC	06-24-97	0944	186.2	325	7365
425823109585601	35-110-28dac01	124WSTC	06-23-97	1347	30.3	139	7390
430609110001901	36-110-08dbd01	124WSTC	06-24-97	1659	F	93	7860
430956110222901	37-113-23abc01	111ALVM	06-23-97	1555	11.9	38	6800

F-Flowing.

STATION NUMBER	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	RADON 222 TOTAL (PCI/L) (82303)	RN-222 (STANDARD DEVIATION) 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)
423104110080401	06-24-97	611	7.8	7.5	1300	40
424301109322501	06-23-97	129	7.2	9.5	630	29
425105109474201	06-24-97	312	9.5	9.5	1100	37
425823109585601	06-23-97	496	9.5	8.5	1100	37
430609110001901	06-24-97	500	7.7	7.7	540	28
430956110222901	06-23-97	670	7.5	8.0	930	34

RADON IN GROUND WATER SAMPLING PROGRAM--Continued

RADON DATA--Continued

WASHAKIE COUNTY

STATION NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)
435850107574001	46-093-01dcc01	124WLWD	08-14-97	1450	13.9
435814107580201	46-093-12dbb01	111ALVM	08-12-97	1525	4.8
442222108383101	51-098-21dcc01	124WLWD	08-13-97	1545	43.6
440117107571501	47-093-25aba01	111ALVM	08-14-97	0845	8.7

STATION NUMBER	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	RN-222 (STANDARD DEVIATION) 2 SIGMA RADON 222 TOTAL (PCI/L) (82303)	WATER, WHOLE, TOTAL, (PCI/L) (76002)
435850107574001	85	4140	963	7.6	16.0	2200	59
435814107580201	35	4155	775	7.6	16.0	520	31
442222108383101	140	4860	1740	7.7	10.5	670	30
440117107571501	15	4055	3000	7.2	12.5	850	44

QUALITY OF GROUND WATER

TOWN OF TORRINGTON WELLHEAD PROTECTION SAMPLING PROGRAM
(Water levels are at depth below land surface, in feet)

GOSHEN COUNTY

WATER-QUALITY DATA, WATER YEAR 1996 TO SEPTEMBER 1997

WELL NUMBER	STATION NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
WW15	420246104093401	24-065-14dcc01	111ALVM	05-28-97	1525	6.13	26.5	4080
				06-17-97	1318	4.77		
				07-15-97	1105	6.83		
				08-26-97	1240	7.88		
83	420252104093601	24-061-14dcb01	111ALVM	05-28-97	1600	4.90	25.2	4078
				06-17-97	1820	3.80		
				07-16-97	1835	5.15		
				08-28-97	1415	5.90		
56	420302104095901	24-061-14cbc01	111ALVM	05-27-97	1450	4.20	18	4078
				06-18-97	1335	3.98		
				07-16-97	1735	6.08		
				08-28-97	1315	6.91		
55	420309104094101	24-061-14cab01	111ALVM	05-27-97	1427	8.68	100	4080
				06-17-97	1420	7.30		
				07-15-97	1206	7.79		
				08-26-97	1345	8.41		
64	420312104130201	24-061-17bdd01	111ALVM	05-23-97	1420	3.20	22	4092
				06-17-97	0850	3.40		
				07-17-97	1130	3.43		
				08-26-97	1120	4.06		
77	420324104125501	24-061-17abd01	111ALVM	05-28-97	1227	--	--	4092
				06-19-97	0935	--		
				07-17-97	0802	--		
				08-27-97	1200	--		
54	420327104090001	24-061-14bbc01	111ALVM	06-16-97	1530	15.40	32	4085
				07-16-97	0835	13.29		
				08-25-97	1140	13.78		
61	420334104113201	24-061-16aab01	111ALVM	05-27-97	1335	18.18	33	4100
				06-17-97	1040	17.06		
				07-15-97	1425	18.31		
				08-26-97	1405	18.99		
62	420335104122701	24-061-16bbb01	111ALVM	05-23-97	1510	6.00	24	4093
				06-17-97	0935	6.99		
				07-17-97	1240	5.20		
				08-26-97	0825	5.59		
64	420335104130201	24-061-17abb01	111ALVM	05-23-97	1320	7.30	24.5	4099
				06-17-97	0810	7.80		
				07-17-97	1015	8.54		
				08-26-97	1000	8.73		
47	420344104110001	24-061-10cca01	111ALVM	05-27-97	1600	20.60	35	4100
				06-18-97	1140	19.50		
				07-15-97	1540	20.62		
				08-26-97	1550	21.02		
44	420352104101001	24-061-10dad01	111ALVM	05-28-97	1425	24.90	39	4105
				06-16-97	1310	23.90		
				07-15-97	1905	24.71		
				08-25-97	1355	25.12		
49	420358104113201	24-061-09dab01	111ALVM	05-28-97	0830	21.70	35	4105
				06-17-97	1540	20.79		
				07-16-97	1040	20.75		
				08-28-97	0830	21.15		
43	420401104104401	24-061-10caa01	111ALVM	05-22-97	0950	22.15	30	4105
				06-16-97	1940	20.67		
				07-14-97	1805	23.65		
				08-26-97	1830	21.53		
50	420402104113409	24-061-09adc09	111ALVM	05-27-97	1805	23.30	30	4108
				06-17-97	1700	22.43		
				07-16-97	0815	22.08		
				08-28-97	0955	22.48		
42	420412104104201	24-061-10acb01	111ALVM	05-22-97	1225	22.28	35	4108
				06-16-97	1810	20.48		
				07-14-97	1645	21.57		
				08-26-97	1715	20.03		

TOWN OF TORRINGTON WELLHEAD PROTECTION SAMPLING PROGRAM--Continued

GOSHEN COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

WELL NUMBER	STATION NUMBER	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
WW15	420246104093401	05-28-97	2860	7.0	11.5	<0.01	0.23	17	<0.01
		06-17-97	3570	6.7	16.0	0.50	72	0.14	0.24
		07-15-97	3140	6.8	24.0	<0.01	<0.05	6.0	0.09
		08-26-97	2840	6.9	23.5	<0.01	<0.05	1.9	0.02
83	420252104093601	05-28-97	1010	7.5	13.5	0.01	2.0	<0.01	0.03
		06-17-97	1020	7.3	18.0	0.09	4.3	<0.01	0.02
		07-16-97	1020	7.4	18.0	0.04	3.7	<0.01	0.02
		08-28-97	1070	7.6	20.0	0.03	5.1	0.03	0.03
56	420302104095901	05-27-97	1390	7.2	12.5	<0.01	11	<0.01	0.01
		06-18-97	1240	7.1	23.0	0.02	10	0.04	<0.01
		07-16-97	1300	7.1	17.0	0.01	12	0.02	0.01
		08-28-97	1350	7.1	17.5	0.01	15	0.04	<0.01
55	420309104094101	05-27-97	1060	7.3	13.5	<0.01	10	<0.01	0.03
		06-17-97	1060	7.2	14.0	<0.01	9.6	<0.01	0.02
		07-15-97	1060	7.3	14.0	<0.01	9.9	<0.01	0.02
		08-26-97	1060	7.2	14.5	<0.01	10	<0.01	0.04
64	420312104130201	05-23-97	945	7.4	10.5	0.02	2.3	<0.01	0.01
		06-17-97	935	7.7	10.5	0.02	2.3	<0.01	0.01
		07-17-97	898	7.3	13.5	0.02	2.3	<0.01	0.02
		08-26-97	937	7.3	14.5	0.04	2.2	0.03	0.02
77	420324104125501	05-28-97	946	7.4	12.0	0.01	4.9	<0.01	0.01
		06-19-97	959	7.3	12.0	0.03	4.5	<0.01	0.01
		07-17-97	1000	7.2	11.5	0.04	4.9	<0.01	0.02
		08-27-97	943	7.3	12.5	0.02	4.3	0.02	0.01
54	420327104090001	06-16-97	1200	7.4	13.0	<0.01	14	<0.01	0.04
		07-16-97	1180	7.2	13.5	<0.01	15	<0.01	0.03
		08-25-97	1180	7.2	15.0	<0.01	15	0.02	0.04
61	420334104113201	05-27-97	1170	7.3	11.5	<0.01	12	<0.01	0.03
		06-17-97	1180	7.2	14.5	<0.01	12	<0.01	0.04
		07-15-97	1240	7.2	16.0	<0.01	15	0.38	0.13
		08-26-97	1240	7.2	14.0	<0.01	15	0.02	0.04
62	420335104122701	05-23-97	1050	7.4	13.0	<0.01	3.2	<0.01	0.01
		06-17-97	1050	7.4	13.5	<0.01	4.0	<0.01	0.01
		07-17-97	1060	7.1	16.5	<0.01	4.3	<0.01	0.02
		08-26-97	1020	7.1	14.5	<0.01	4.6	0.02	0.03
64	420335104130201	05-23-97	1090	7.3	12.0	<0.01	8.0	<0.01	0.01
		06-17-97	1500	7.3	11.5	0.01	9.8	<0.01	0.02
		07-17-97	1100	7.2	14.0	<0.01	14	<0.01	0.03
		08-26-97	1230	7.1	14.0	<0.01	11	0.09	0.02
47	420344104110001	05-27-97	1230	7.2	14.0	<0.01	14	0.02	0.04
		06-18-97	1240	7.1	20.0	<0.01	15	<0.01	0.04
		07-15-97	1240	7.1	20.0	<0.01	15	0.02	0.04
		08-26-97	1280	7.1	15.5	<0.01	14	<0.01	0.04
44	420352104101001	05-28-97	900	7.5	15.0	<0.01	15	<0.01	0.03
		06-16-97	940	7.5	16.0	<0.01	14	<0.01	0.04
		07-15-97	890	7.5	16.0	<0.01	15	<0.01	0.04
		08-25-97	865	7.5	17.0	<0.01	12	<0.01	0.04
49	420358104113201	05-28-97	1260	7.1	13.0	<0.01	13	0.83	0.13
		06-17-97	1500	7.0	16.0	0.03	47	0.79	0.15
		07-16-97	1410	7.0	16.0	0.03	27	0.27	0.11
		08-28-97	1340	6.9	14.0	<0.01	19	0.26	0.07
43	420401104104401	05-22-97	1330	7.3	13.5	<0.01	12	0.02	0.04
		06-16-97	1290	7.2	14.5	<0.01	12	<0.01	0.05
		07-14-97	1410	7.2	17.0	<0.01	12	0.02	0.04
		08-26-97	1360	7.2	14.0	<0.01	12	0.02	0.04
50	420402104113409	05-27-97	1130	7.0	12.5	<0.01	11	0.02	0.06
		06-17-97	1150	7.0	17.0	0.01	9.4	<0.01	0.06
		07-16-97	1190	6.9	14.0	0.02	7.9	<0.01	0.08
		08-28-97	1340	6.8	14.0	0.02	17	0.03	0.06
42	420412104104201	05-22-97	1190	7.3	15.0	<0.01	12	<0.01	0.03
		06-16-97	1270	7.3	15.0	<0.01	12	<0.01	0.05
		07-14-97	1270	7.3	18.5	<0.01	14	0.02	0.04
		08-26-97	1250	7.3	15.5	<0.01	13	<0.01	0.03

QUALITY OF GROUND WATER

TOWN OF TORRINGTON WELLHEAD PROTECTION SAMPLING PROGRAM--Continued

GOSHEN COUNTY--Continued

WATER-QUALITY DATA, WATER YEAR 1996 TO SEPTEMBER 1997

WELL NUMBER	STATION NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
51	420414104112801	24-061-09adb01	111ALVM	05-21-97 06-18-97 07-16-97 08-27-97	1610 1905 1535 0805	25.80 23.55 23.11 23.09	38	4109
71	420414104115401	24-061-09bda01	111ALVM	05-21-97 06-18-97 07-16-97 08-27-97	0930 1510 1155 1355	22.80 21.52 20.96 21.00	32	4111
39	420419104102901	24-061-10abd01	111ALVM	05-22-97 06-18-97 07-14-97 08-25-97	1440 1005 1530 1520	31.96 31.24 31.10 30.70	45	4124
53	420422104132201	24-061-08bba01	111ALVM	05-28-97 06-17-97 07-15-97 08-28-97	1225 1400 1210 1835	11.90 10.90 11.66 10.86	25	4108
41	420423104104201	24-061-10abb01	111ALVM	05-23-97 06-16-97 07-14-97 08-25-97	1345 1650 1335 1810	29.96 29.28 29.16 28.81	40	4126
72	420423104115301	24-061-09baa01	111ALVM	05-21-97 06-18-97 07-16-97 08-27-97	1135 1745 1410 1500	23.90 22.44 21.89 20.64	33	4113
73	420425104120101	24-061-09baa02	111ALVM	05-21-97 06-18-97 07-16-97 08-27-97	1355 1630 1300 1645	23.60 22.13 21.61 21.40	31	4115
40	420427104104901	24-061-10baa01	111TRRC	05-23-97 06-16-97 07-14-97 08-25-97	1515 1525 1215 1650	31.72 31.08 31.05 30.63	44	4133
26	420434104103501	24-061-03dcb01	111TRRC	05-28-97 06-19-97 07-15-97 08-27-97	1000 1255 1800 1855	41.43 41.69 42.29 41.96	55	4141
70	420441104122901	24-061-05dad01	111ALVM	05-21-97 06-19-97 07-15-97 08-28-97	1835 0955 0940 1550	20.40 18.94 18.35 17.93	28	4116
34	420447104132401	24-061-05cba01	111ALVM	05-19-97 06-16-97 07-14-97 08-27-97	1815 1905 1653 1555	28.30 25.50 23.98 23.67	80	4125
27	420448104104501	24-061-03caa01	111TRRC	05-28-97 06-16-97 07-16-97 08-29-97	1115 1215 1448 1300	72.70 72.90 72.79 71.41	78	4194
33	420455104121001	24-061-04bdc01	111TRRC	05-20-97 06-19-97 07-17-97 08-27-97	0940 1250 0941 1101	33.00 32.05 35.91 31.08	65	4131
32	420457104121001	24-061-04bdc02	111TRRC	05-20-97 06-19-97 07-15-97 08-28-97	1245 0835 0830 1715	38.60 38.31 38.39 38.26	50	4148
29	420459104105601	24-061-03bdc01	111TRRC	05-23-97 06-16-97 07-14-97 08-25-97	1432 1715 1456 1631	91.81 92.60 93.34 92.47	150	4215

TOWN OF TORRINGTON WELLHEAD PROTECTION SAMPLING PROGRAM--Continued

GOSHEN COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

WELL NUMBER	STATION NUMBER	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
51	420414104112801	05-21-97	1100	7.5	14.0	<0.01	8.6	<0.01	0.04
		06-18-97	1080	7.4	17.0	<0.01	7.5	<0.01	0.03
		07-16-97	1050	7.4	16.0	<0.01	7.1	<0.01	0.04
		08-27-97	1080	7.1	13.5	<0.01	8.7	<0.01	0.03
71	420414104115401	05-21-97	1280	7.3	13.0	<0.01	16	<0.01	0.04
		06-18-97	1350	7.3	15.5	<0.01	18	<0.01	0.05
		07-16-97	1340	7.2	17.0	<0.01	18	<0.01	0.05
		08-27-97	1150	7.3	14.0	<0.01	14	<0.01	0.05
39	420419104102901	05-22-97	1050	7.4	14.5	<0.01	11	<0.01	0.03
		06-18-97	1060	7.3	16.0	<0.01	12	<0.01	0.04
		07-14-97	1090	7.3	16.0	<0.01	11	0.03	0.04
		08-25-97	1100	7.3	14.5	<0.01	12	0.02	0.04
53	420422104132201	05-28-97	1090	7.3	13.0	<0.01	6.1	<0.01	0.11
		06-17-97	1130	7.2	25.0	0.07	5.5	<0.01	0.23
		07-15-97	1100	7.3	15.0	<0.01	6.0	0.02	0.10
		08-28-97	1150	7.2	13.5	0.05	7.9	0.32	0.33
41	420423104104201	05-23-97	1290	7.3	15.0	<0.01	14	<0.01	0.06
		06-16-97	1310	7.2	17.0	<0.01	14	<0.01	0.08
		07-14-97	1320	7.2	17.5	<0.01	14	<0.01	0.06
		08-25-97	1320	7.2	14.5	<0.01	14	0.04	0.07
72	420423104115301	05-21-97	1170	7.3	14.5	<0.01	9.5	<0.01	0.04
		06-18-97	1170	7.2	17.5	<0.01	9.3	<0.01	0.04
		07-16-97	677	7.3	17.5	<0.01	4.4	<0.01	0.04
		08-27-97	1060	7.3	14.5	<0.01	9.1	0.02	0.05
73	420425104120101	05-21-97	1140	7.2	15.5	<0.01	10	<0.01	0.04
		06-18-97	1190	7.2	17.0	<0.01	10	<0.01	0.04
		07-16-97	1180	7.2	17.5	<0.01	9.9	<0.01	0.05
		08-27-97	1400	7.3	14.5	<0.01	11	<0.01	0.05
40	420427104104901	05-23-97	1260	7.4	15.0	<0.01	7.0	<0.01	0.04
		06-16-97	1310	7.3	16.5	<0.01	7.0	<0.01	0.06
		07-14-97	1320	7.3	18.0	<0.01	7.3	<0.01	0.05
		08-25-97	1360	7.3	15.0	<0.01	7.2	0.02	0.05
26	420434104103501	05-28-97	1360	7.6	14.5	<0.01	15	<0.01	0.02
		06-19-97	1370	7.3	18.0	<0.01	14	<0.01	0.03
		07-15-97	1390	7.3	16.0	<0.01	16	<0.01	0.03
		08-27-97	1410	7.3	15.0	<0.01	16	0.02	0.04
70	420441104122901	05-21-97	1260	7.3	13.5	<0.01	14	<0.01	0.08
		06-19-97	1200	7.3	15.0	<0.01	13	<0.01	0.07
		07-15-97	1160	7.3	13.5	<0.01	12	0.05	0.09
		08-28-97	1210	7.3	14.5	<0.01	11	<0.01	0.07
34	420447104132401	05-19-97	958	7.1	14.5	0.01	2.8	<0.01	0.03
		06-16-97	980	7.2	15.0	<0.01	2.4	<0.01	0.03
		07-14-97	986	7.2	15.0	<0.01	2.5	<0.01	0.04
		08-27-97	970	7.2	15.0	<0.01	1.6	<0.01	0.03
27	420448104104501	05-28-97	1000	7.4	14.5	<0.01	6.6	<0.01	0.01
		06-16-97	995	7.5	15.0	<0.01	5.8	<0.01	0.02
		07-16-97	1070	7.6	15.5	<0.01	8.8	<0.01	0.01
		08-29-97	944	7.4	16.5	<0.01	5.5	0.03	0.02
33	420455104121001	05-20-97	1080	7.5	13.5	<0.01	12	<0.01	0.02
		06-19-97	1080	7.5	13.5	<0.01	12	<0.01	0.02
		07-17-97	817	7.6	13.5	<0.01	12	<0.01	0.03
		08-27-97	1060	7.4	14.0	<0.01	11	0.02	0.02
32	420457104121001	05-20-97	1070	7.4	15.5	<0.01	11	<0.01	0.03
		06-19-97	1120	7.4	15.0	<0.01	12	<0.01	0.03
		07-15-97	1080	7.3	14.0	<0.01	11	<0.01	0.03
		08-28-97	1090	7.4	15.0	<0.01	11	0.02	0.03
29	420459104105601	05-23-97	1290	7.2	16.5	<0.01	26	<0.01	0.02
		06-16-97	1300	7.2	16.5	<0.01	27	<0.01	0.02
		07-14-97	1310	7.1	16.5	<0.01	27	<0.01	0.02
		08-25-97	1290	7.2	16.5	<0.01	28	0.02	0.03

QUALITY OF GROUND WATER
TOWN OF TORRINGTON WELLHEAD PROTECTION SAMPLING PROGRAM--Continued
GOSHEN COUNTY--Continued
WATER-QUALITY DATA, WATER YEAR 1996 TO SEPTEMBER 1997

WELL NUMBER	STATION NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
31	420502104120401	24-061-04bdb01	111TRRC	05-23-97 06-18-97 07-17-97 08-27-97	1136 1452 1112 1001	83.68 83.46 E83.76 83.63	140	4197
65	420504104120401	24-061-04bdb03	111TRRC	05-23-97 06-18-97 07-17-97 08-27-97	1231 1423 1040 0925	89.39 89.16 89.46 89.33	E145	4190
37	420507104155901	24-062-02aad01	111ALVM	05-28-97 06-17-97 07-15-97 08-29-97	1040 1230 1105 0945	3.80 2.78 4.45 5.32	24	4114
36	420511104140301	24-061-06abc01	111ALVM	05-22-97 06-18-97 07-15-97 08-28-97	1536 1247 1537 1651	9.86 8.75 8.24 8.59	60	4113
30	420513104112301	24-061-04aad01	111ALVM	05-28-97 06-17-97 07-16-97 08-28-97	1240 1030 1534 0859	94.90 96.50 97.48 96.75	105	4217
35	420516104133601	24-061-06aaa01	111ALVM	05-20-97 06-18-97 07-17-97 08-28-97	1155 1330 0900 1352	23.70 22.48 21.80 21.57	60	4127
21	420521104121701	25-061-33ccc01	111TRRC	05-23-97 06-16-97 07-14-97 08-25-97	0927 1815 1541 1738	95.25 94.12 95.59 93.82	135	4212
19	420522104095901	25-061-35ccc01	111TRRC	05-28-97 06-19-97 07-16-97 08-27-97	1055 1048 1651 1342	32.70 33.26 32.93 31.22	98	4200
22	420526104145401	25-062-36ddb01	111TRRC	05-21-97 06-18-97 07-15-97 08-29-97	1423 1045 1645 0820	7.60 6.16 5.71 6.29	124	4115
69	420531104100201	25-061-34dda01	111TRRC	05-20-97 06-18-97 07-14-97 08-27-97	1835 0830 1040 0930	6.70 6.24 5.94 4.74	23	4175
24	420549104154901	25-062-36bcc01	111ALVM	05-19-97 06-19-97 07-16-97 08-29-97	1645 0840 0815 0835	7.90 6.93 5.42 6.18	25	4125
23	420603104151601	25-062-36bad01	111TRRC	05-22-97 06-18-97 07-15-97 08-29-97	1440 0955 1421 0953	40.40 48.73 36.41 35.17	100	4151
20	420605104120601	25-061-33bba01	111TRRC	05-21-97 06-16-97 07-14-97 08-25-97	0930 1602 1403 1521	77.60 81.02 78.39 77.82	154	4243
14	420611104130901	25-061-29cdc01	111TRRC	05-21-97 06-16-97 07-14-97 08-25-97	1052 1500 1323 1405	76.10 75.84 76.55 75.42	137	4218
9	420612104101801	25-061-27dcd01	111TRRC	05-20-97 06-19-97 07-17-97 08-27-97	1435 1142 1156 1425	43.70 46.04 42.35 E45.00	110	4214
20a	420612104121901	25-061-28ccc01	111TRRC	05-28-97 06-17-97 07-16-97 08-28-97	0830 1430 1310 1102	60.30 60.32 61.65 60.89	72	4225

E-Estimate.

QUALITY OF GROUND WATER

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TOWN OF TORRINGTON WELLHEAD PROTECTION SAMPLING PROGRAM--Continued

GOSHEN COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

WELL NUMBER	STATION NUMBER	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
31	420502104120401	05-23-97	1100	7.3	13.5	<0.01	15	<0.01	0.03
		06-18-97	1110	7.4	13.5	<0.01	14	<0.01	0.04
		07-17-97	1090	7.4	14.0	<0.01	15	<0.01	0.02
		08-27-97	1090	7.4	14.0	<0.01	15	0.02	0.02
65	420504104120401	05-23-97	1110	7.3	13.5	<0.01	15	<0.01	0.03
		06-18-97	1110	7.4	14.0	<0.01	15	<0.01	0.05
		07-17-97	1080	7.4	13.5	<0.01	15	<0.01	0.03
		08-27-97	1090	7.4	13.5	<0.01	15	<0.01	0.03
37	420507104155901	05-28-97	830	7.3	12.5	<0.01	4.2	<0.01	0.29
		06-17-97	2100	7.1	14.5	<0.01	4.6	<0.01	0.09
		07-15-97	1140	7.1	15.5	<0.01	6.1	0.03	0.08
		08-29-97	1130	7.0	15.0	<0.01	5.2	0.07	0.16
36	420511104140301	05-22-97	818	7.3	15.0	<0.01	0.48	<0.01	0.04
		06-18-97	861	7.3	15.5	<0.01	0.67	<0.01	0.04
		07-15-97	923	7.4	15.5	<0.01	1.6	<0.01	0.04
		08-28-97	956	7.3	16.0	0.02	2.8	0.03	0.05
30	420513104112301	05-28-97	800	7.5	15.5	<0.01	4.6	0.02	0.05
		06-17-97	822	7.4	16.0	<0.01	5.6	<0.01	0.05
		07-16-97	897	7.6	16.0	<0.01	5.9	<0.01	0.05
		08-28-97	850	7.4	15.5	<0.01	5.9	<0.01	0.05
35	420516104133601	05-20-97	837	7.6	14.0	<0.01	3.9	<0.01	0.02
		06-18-97	842	7.6	15.0	<0.01	3.8	0.02	0.02
		07-17-97	852	7.5	14.0	<0.01	4.1	<0.01	0.03
		08-28-97	852	7.5	14.5	<0.01	4.6	<0.01	0.02
21	420521104121701	05-23-97	867	7.5	13.5	<0.01	4.8	<0.01	0.03
		06-16-97	890	7.4	14.0	<0.01	5.1	<0.01	0.03
		07-14-97	905	7.5	14.0	<0.01	6.5	0.02	0.03
		08-25-97	900	7.5	13.5	<0.01	6.6	0.02	0.04
19	420522104095901	05-28-97	640	7.7	14.0	<0.01	3.0	<0.01	0.03
		06-19-97	642	7.7	14.5	<0.01	2.9	<0.01	0.02
		07-16-97	716	7.7	15.0	<0.01	3.5	<0.01	0.03
		08-27-97	660	7.7	14.5	<0.01	3.1	<0.01	0.02
22	420526104145401	05-21-97	1050	7.3	14.0	0.14	9.1	<0.01	0.04
		06-18-97	1060	7.3	14.0	0.16	8.8	<0.01	0.06
		07-15-97	1070	7.3	14.5	0.15	9.6	<0.01	0.04
		08-29-97	1080	7.4	14.5	0.16	11	<0.01	0.04
69	420531104100201	05-20-97	1850	7.0	10.5	0.03	4.3	<0.01	0.11
		06-18-97	1930	7.1	11.0	0.02	3.8	<0.01	0.13
		07-14-97	1970	7.0	12.0	0.05	5.7	0.03	0.13
		08-27-97	2470	6.9	12.5	0.05	13	0.04	0.15
24	420549104154901	05-19-97	1000	7.3	11.5	<0.01	6.9	<0.01	0.04
		06-19-97	1040	7.2	13.0	0.01	8.5	0.02	0.04
		07-16-97	1090	7.2	13.5	0.02	9.6	<0.01	0.03
		08-29-97	1170	6.9	15.5	0.02	7.5	0.03	0.04
23	420603104151601	05-22-97	874	7.4	16.0	<0.01	2.5	<0.01	0.04
		06-18-97	886	7.4	16.0	<0.01	2.5	<0.01	0.05
		07-15-97	856	7.5	16.5	<0.01	1.7	<0.01	0.03
		08-29-97	864	7.8	16.0	<0.01	2.3	<0.01	0.04
20	420605104120601	05-21-97	768	7.6	13.5	<0.01	2.4	<0.01	0.01
		06-16-97	773	7.5	14.0	<0.01	2.3	<0.01	0.01
		07-14-97	785	7.4	14.0	<0.01	2.7	<0.01	0.02
		08-25-97	778	7.5	14.0	<0.01	2.5	<0.01	0.02
14	420611104130901	05-21-97	918	7.6	14.5	<0.01	8.4	<0.01	0.02
		06-16-97	942	7.4	14.5	<0.01	8.6	<0.01	0.01
		07-14-97	941	7.4	15.0	<0.01	9.1	<0.01	0.02
		08-25-97	950	7.4	15.0	<0.01	9.6	<0.01	0.03
9	420612104101801	05-20-97	590	7.7	16.5	<0.01	0.83	<0.01	0.01
		06-19-97	596	7.7	17.0	<0.01	0.76	<0.01	0.01
		07-17-97	588	7.8	17.0	<0.01	0.92	<0.01	0.02
		08-27-97	590	7.6	16.5	<0.01	0.88	<0.01	0.01
20a	420612104121901	05-28-97	950	7.5	13.5	<0.01	3.9	<0.01	0.04
		06-17-97	950	7.4	13.5	<0.01	3.9	<0.01	0.04
		07-16-97	985	7.4	14.5	<0.01	3.9	<0.01	0.04
		08-28-97	962	7.3	14.5	<0.01	3.7	0.02	0.04

QUALITY OF GROUND WATER
TOWN OF TORRINGTON WELLHEAD PROTECTION SAMPLING PROGRAM--Continued
GOSHEN COUNTY--Continued
WATER-QUALITY DATA, WATER YEAR 1996 TO SEPTEMBER 1997

WELL NUMBER	STATION NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
15	420615104143801	25-061-30ccc01	111TRRC	05-21-97 06-18-97 07-15-97 08-28-97	1220 1205 1754 1756	51.80 55.95 56.75 57.00	120	4199
18	420617104164501	25-062-26cca01	111ALVM	05-21-97 06-18-97 07-15-97 08-28-97	1542 0822 1302 1454	32.50 31.47 30.23 30.09	60	4151
17	420621104155301	25-062-26dda01	111TRRC	05-22-97 06-18-97 07-15-97 08-28-97	1318 0908 1340 1549	63.30 63.14 63.64 61.73	100	4201
10	420626104111101	25-061-28dad01	111TRRC	05-28-97 06-16-97 07-16-97 08-28-97	1400 1100 1420 1008	16.00 40.70 37.97 34.45	85	4212
12	420653104122801	24-061-29aad01.	111TRRC	05-22-97 06-16-97 07-14-97 08-25-97	1052 1326 1225 1310	83.60 88.38 84.27 86.20	180	4246
13a	420703104133001	25-061-29bbb01	111TRRC	05-22-97 06-16-97 07-14-97 08-25-97	1210 0933 0926 0935	88.90 88.60 87.71 88.03	140	4085
13	420703104133002	25-061-29bbb02	111TRRC	06-16-97 07-16-97 08-27-97	0915 0907 1145	88.60 87.65 87.75	95.5	4246
8	420705104155201	25-062-23ddd01	111TRRC	05-28-97 06-17-97 07-16-97 09-02-97	1505 1245 1128 1144	60.80 62.80 61.25 57.42	72	4225
67	420710104121901	25-061-21ccb01	111TRRC	05-27-97 06-16-97 07-16-97 08-29-97	0830 1425 1227 1125	54.60 51.58 51.76 51.39	65	4247
7	420715104113701	25-061-21dcb01	111TRRC	05-28-97 06-16-97 07-14-97 08-25-97	0926 1207 1121 1154	20.40 23.19 21.28 16.69	80	4246
4	420754104134001	25-061-19aab01	111TRRC	05-27-97 06-16-97 07-16-97	1030 1320 1006	113.70 115.06 115.93	124.5	4272
5	420758104151601	25-062-13cdd01	111TRRC	05-27-97 06-17-97 07-16-97 09-02-97	1145 1200 1050 1026	72.18 62.42 59.13 55.12	85	4242
3	420800104122501	25-061-17ddd01	111TRRC	05-22-97 06-16-97 07-14-97 08-25-97	0930 1107 1027 1050	65.80 65.29 73.68 65.42	90	4275
1	420846104133001	25-061-18aaa01	111TRRC	05-27-97 06-17-97 07-15-97 08-26-97	0938 0905 0820 0824	96.82 96.73 96.74 86.48	78	4328
2	420849104151001	25-062-12dcc01	111TRRC	05-27-97 06-17-97 07-15-97 08-26-97	1113 1006 0908 0930	134.60 134.48 134.36 134.60	140	4314
66	420849104165901	25-062-11ccc01	111TRRC	05-27-97 06-17-97 07-15-97 08-26-97	1245 1100 1000 1017	131.78 84.19 133.10 132.60	137	4302

TOWN OF TORRINGTON WELLHEAD PROTECTION SAMPLING PROGRAM--Continued

GOSHEN COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

WELL NUMBER	STATION NUMBER	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
15	420615104143801	05-21-97	914	7.3	14.5	<0.01	7.2	<0.01	0.02
		06-18-97	933	7.4	14.5	<0.01	6.5	<0.01	0.01
		07-15-97	931	7.4	15.0	<0.01	7.7	<0.01	0.02
		08-28-97	910	7.5	14.5	<0.01	7.4	<0.01	0.02
18	420617104164501	05-21-97	971	7.6	13.5	<0.01	9.6	<0.01	0.03
		06-18-97	983	7.5	16.0	<0.01	8.7	<0.01	0.02
		07-15-97	1000	7.6	15.0	<0.01	9.9	<0.01	0.03
		08-28-97	982	7.5	16.0	<0.01	9.1	0.02	0.03
17	420621104155301	05-22-97	1000	7.3	13.5	<0.01	6.6	<0.01	0.02
		06-18-97	1020	7.4	13.5	<0.01	6.9	<0.01	0.04
		07-15-97	1030	7.5	14.0	<0.01	7.1	<0.01	0.02
		08-28-97	1020	7.4	14.5	<0.01	7.5	0.02	0.02
10	420626104111101	05-28-97	760	7.5	16.0	<0.01	4.0	<0.01	0.03
		06-16-97	744	7.6	15.5	<0.01	4.0	<0.01	0.04
		07-16-97	741	7.6	16.5	<0.01	3.4	<0.01	0.03
		08-28-97	707	7.6	15.5	<0.01	1.9	<0.01	0.03
12	420653104122801	05-22-97	650	7.7	16.0	<0.01	3.2	<0.01	0.02
		06-16-97	661	7.7	16.0	<0.01	3.1	<0.01	0.02
		07-14-97	679	7.7	16.5	<0.01	3.6	<0.01	0.02
		08-25-97	669	7.6	16.5	<0.01	3.5	<0.01	0.02
13a	420703104133001	05-22-97	1020	7.6	13.5	<0.01	7.0	<0.01	0.02
		06-16-97	1040	7.7	14.0	<0.01	7.2	<0.01	0.03
		07-14-97	1070	7.6	14.0	<0.01	7.6	<0.01	0.02
		08-25-97	964	7.6	14.5	<0.01	6.2	<0.01	0.03
13	420703104133002	06-16-97	1390	7.6	14.0	<0.01	20	<0.01	0.02
		07-16-97	1320	7.6	15.0	<0.01	20	<0.01	0.02
		08-27-97	1380	7.6	15.0	<0.01	21	0.02	0.03
8	420705104155201	05-28-97	780	7.6	15.5	<0.01	12	<0.01	0.01
		06-17-97	651	7.8	23.0	<0.01	5.9	<0.01	<0.01
		07-16-97	650	7.7	26.0	<0.01	5.2	<0.01	0.02
		09-02-97	940	7.4	14.0	<0.01	14	<0.01	0.02
67	420710104121901	05-27-97	700	8.0	11.0	<0.01	11	<0.01	0.02
		06-16-97	625	7.8	16.0	<0.01	11	<0.01	0.03
		07-16-97	626	7.6	19.0	<0.01	11	<0.01	0.03
		08-29-97	610	7.5	15.0	<0.01	10	<0.01	0.03
7	420715104113701	05-28-97	715	7.6	14.0	<0.01	0.76	0.02	0.03
		06-16-97	727	7.6	14.0	<0.01	1.1	<0.01	0.03
		07-14-97	750	7.6	13.5	<0.01	1.6	0.04	0.05
		08-25-97	711	7.5	14.0	<0.01	0.95	0.02	0.04
4	420754104134001	05-27-97	925	7.6	12.5	<0.01	25	<0.01	0.01
		06-16-97	949	7.5	15.0	<0.01	24	<0.01	0.02
		07-16-97	944	7.4	15.0	<0.01	25	<0.01	0.02
5	420758104151601	05-27-97	705	7.9	14.0	<0.01	1.4	<0.01	<0.01
		06-17-97	700	7.9	17.0	<0.01	1.1	<0.01	0.01
		07-16-97	707	7.6	18.5	<0.01	1.2	<0.01	0.02
		09-02-97	650	7.6	16.5	<0.01	3.7	<0.01	0.02
3	420800104122501	05-22-97	504	7.8	12.5	<0.01	13	<0.01	0.01
		06-16-97	521	7.8	13.5	<0.01	13	<0.01	0.01
		07-14-97	509	7.8	14.5	<0.01	12	0.02	0.02
		08-25-97	530	7.7	14.5	<0.01	13	<0.01	0.02
1	420846104133001	05-27-97	538	7.3	11.5	<0.01	10	<0.01	0.09
		06-17-97	532	7.8	14.0	<0.01	10	<0.01	0.04
		07-15-97	533	8.1	14.5	<0.01	10	0.03	0.03
		08-26-97	525	7.6	14.0	0.01	11	<0.01	0.04
2	420849104151001	05-27-97	593	8.0	12.5	<0.01	7.6	<0.01	0.58
		06-17-97	597	7.8	14.5	<0.01	6.9	<0.01	0.03
		07-15-97	599	8.1	14.5	<0.01	7.3	0.02	0.03
		08-26-97	599	7.9	14.5	<0.01	6.6	0.02	0.03
66	420849104165901	05-27-97	700	7.7	14.0	<0.01	2.9	<0.01	0.04
		06-17-97	687	7.6	16.0	<0.01	3.2	<0.01	0.02
		07-15-97	691	7.9	15.0	<0.01	3.0	0.04	0.01
		08-26-97	682	7.8	15.5	<0.01	3.7	<0.01	0.02

QUALITY OF GROUND WATER

TETON COUNTY

GROUND-WATER QUALITY NEAR WASTEWATER-TREATMENT FACILITIES, GRAND TETON NATIONAL PARK

STATION NUMBER	GEO- LOGIC UNIT	LOCAL IDENT- I- FIER	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)
433657110395901	111ALVM	42-115-08dac01	07-11-97	1200	389	7.6
433658110400101	111ALVM	42-115-08dab02	07-11-97	0750	466	7.6
433658110400401	111ALVM	42-115-08dab01	07-11-97	0930	467	7.7
433700110395501	111ALVM	42-115-08daa01	07-10-97	1945	461	7.6
433703110395301	111ALVM	42-115-08daa02	07-10-97	1730	483	7.5
433932110430801	111ALVM	43-116-25cca01	09-23-97	1030	95	8.7
433939110424001	111ALVM	43-116-25dbd01	09-23-97	0900	141	8.4
433939110425601	111ALVM	43-116-25caa01	09-23-97	1150	145	7.7
434904110364701	111ALVM	45-115-36cac01	09-24-97	0850	237	8.1
434920110365601	111ALVM	45-115-36bcd01	09-23-97	1430	195	8.1
434920110370801	111ALVM 111ALVM 111ALVM 111ALVM	45-115-36bcc01	05-30-97 07-07-97 08-12-97 09-23-97	1145 1800 1300 1335	278 350 366 396	8.0 7.7 7.8 7.8
434927110370801	112TRRC 112TRRC 112TRRC 112TRRC	45-115-36bcb01	05-30-97 07-08-97 08-12-97 09-23-97	0945 0730 1500 1545	481 628 590 466	7.3 7.4 7.3 7.4
435327110375601	111ALVM 111ALVM	45-115-02cdb01	05-29-97 07-10-97	1745 1330	180 168	7.0 6.9
435342110380801	111ALVM 111ALVM	45-115-02bdd01	05-29-97 07-10-97	1600 1230	131 124	6.9 6.7
435354110372401	111ALVM	45-115-02aac02	09-24-97	1435	72	6.7
435354110373201	111ALVM	45-115-02aca01	09-24-97	1515	186	6.6
435355110372401	111ALVM	45-115-02aac01	09-24-97	1345	74	6.6
435357110374101	111ALVM 111ALVM 111ALVM 111ALVM	45-115-02abc01	05-28-97 07-09-97 08-13-97 09-24-97	1445 1600 1100 1635	131 355 506 607	7.2 7.0 6.9 6.9
435403110372001	111ALVM	45-115-02aab01	09-24-97	1200	92	6.8
435407110374001	111ALVM 111ALVM 111ALVM 111ALVM	45-115-02abb01	05-28-97 07-10-97 08-13-97 09-24-97	1230 1000 0930 1100	48 60 61 67	6.5 6.5 6.5 6.5
440640110401001	111ALVM	48-115-21bca01	09-25-97	1315	312	8.0
440643110400101	111ALVM	48-115-21bdb01	09-25-97	1200	239	6.5
440645110401101	111ALVM 111ALVM 111ALVM 111ALVM	48-115-21bc02	05-29-97 07-08-97 08-14-97 09-25-97	1350 1330 1030 1630	283 294 277 282	8.0 8.0 7.9 8.2
440645110402001	111ALVM 111ALVM 111ALVM 111ALVM	48-115-21bc01	05-29-97 07-08-97 08-14-97 09-25-97	1150 1500 1330 1430	341 442 305 286	7.8 7.7 8.0 7.9
440657110402601	111ALVM 111ALVM 111ALVM 111ALVM	48-115-21bb02	05-29-97 07-08-97 08-13-97 09-26-97	1030 1045 1530 1015	476 484 482 483	7.8 7.8 7.8 7.9
440659110402001	111ALVM 111ALVM 111ALVM 111ALVM	48-115-21bb01	05-29-97 07-08-97 08-13-97 09-26-97	0845 1130 1410 0945	390 396 399 392	7.9 7.8 8.0 8.0

TETON COUNTY--continued

GROUND-WATER QUALITY NEAR WASTEWATER-TREATMENT FACILITIES, GRAND TETON NATIONAL PARK--Continued

STATION NUMBER	DATE	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)
433657110395901	07-11-97	7.5	602	0.3	3	<1	<1	0
433658110400101	07-11-97	7.5	602	5.8	61	<1	<1	0
433658110400401	07-11-97	7.5	602	5.8	61	<1	<1	0
433700110395501	07-10-97	8.0	600	3.9	42	<1	<1	0
433703110395301	07-10-97	8.0	600	5.4	58	<1	<1	0
433932110430801	09-23-97	9.0	610	6.2	67	<1	<1	0
433939110424001	09-23-97	10.5	610	2.7	30	<1	<1	0
433939110425601	09-23-97	10.0	610	5.3	59	<1	K3	0
434904110364701	09-24-97	7.0	600	8.4	88	<1	K5	0
434920110365601	09-23-97	11.5	--	--	--	<1	K3500	0
434920110370801	05-30-97	8.0	600	7.6	82	<1	K2	0
	07-07-97	8.0	600	10.5	113	<1	K1	0
	08-12-97	10.0	600	11.7	132	<1	<1	0
	09-23-97	7.5	610	9.2	97	<1	K1	0
434927110370801	05-30-97	8.0	600	7.4	80	<1	<1	0
	07-08-97	8.5	600	9.4	103	<1	<1	0
	08-12-97	11.0	600	7.8	90	<1	<1	0
	09-23-97	9.0	610	8.4	91	K4	<1	0
435327110375601	05-29-97	7.0	--	--	--	<1	<1	0
	07-10-97	6.5	--	--	--	<1	<1	0
435342110380801	05-29-97	5.0	--	--	--	<1	<1	0
	07-10-97	5.5	--	--	--	<1	<1	0
435354110372401	09-24-97	8.0	600	3.2	34	<1	K1	0
435354110373201	09-24-97	11.5	600	0.3	4	<1	K2	0
435355110372401	09-24-97	8.0	600	2.9	31	<1	K2	0
435357110374101	05-28-97	5.0	600	0.3	3	K9	<1	0
	07-09-97	10.0	595	0.2	2	<1	<1	0
	08-13-97	12.0	600	0.1	1	<1	<1	0
	09-24-97	13.0	600	0.2	2	K1	K3	0
435403110372001	09-24-97	9.0	600	5.4	59	<1	<1	0
435407110374001	05-28-97	4.5	600	9.0	89	<1	<1	0
	07-10-97	5.5	595	6.8	69	<1	<1	0
	08-13-97	6.0	600	5.8	59	<1	K2	0
	09-24-97	6.0	600	4.4	45	<1	<1	0
440640110401001	09-25-97	7.0	600	8.4	88	<1	<1	0
440643110400101	09-25-97	6.5	600	9.4	97	<1	<1	0
440645110401101	05-29-97	6.5	595	7.0	73	<1	<1	0
	07-08-97	7.5	600	7.3	78	<1	<1	0
	08-14-97	7.5	595	7.2	77	<1	<1	0
	09-25-97	7.0	600	7.8	82	<1	<1	0
440645110402001	05-29-97	7.0	595	6.8	72	<1	<1	0
	07-08-97	8.0	600	4.5	48	<1	<1	0
	08-14-97	7.5	595	4.8	51	<1	<1	0
	09-25-97	7.5	600	6.6	70	<1	<1	0
440657110402601	05-29-97	18.5	595	4.4	61	<1	K1	0
	07-08-97	19.0	600	4.4	61	<1	<1	0
	08-13-97	19.0	600	4.2	58	<1	<1	0
	09-26-97	19.0	597	4.5	62	<1	<1	0
440659110402001	05-29-97	16.0	596	5.0	65	<1	<1	0
	07-08-97	16.5	600	4.7	61	<1	<1	0
	08-13-97	16.0	600	5.3	69	<1	K1	0
	09-26-97	16.0	597	5.1	66	<1	<1	0

K-Results based on colony count outside the acceptable range (non-ideal colony count).

QUALITY OF GROUND WATER

TETON COUNTY--Continued

GROUND-WATER QUALITY NEAR WASTEWATER-TREATMENT FACILITIES, GRAND TETON NATIONAL PARK--Continued

STATION NUMBER	DATE	BICAR- BONATE DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
433657110395901	07-11-97	131	107	<0.01	0.06	<0.02	<0.2	<0.01
433658110400101	07-11-97	218	179	<0.01	0.05	<0.02	<0.2	<0.01
433658110400401	07-11-97	222	182	<0.01	<0.05	<0.02	<0.2	0.01
433700110395501	07-10-97	217	178	<0.01	<0.05	<0.02	<0.2	<0.01
433703110395301	07-10-97	227	186	<0.01	0.05	<0.02	<0.2	<0.01
433932110430801	09-23-97	56	46	--	--	--	--	--
433939110424001	09-23-97	79	65	<0.01	0.08	0.05	<0.2	0.05
433939110425601	09-23-97	88	72	<0.01	0.07	0.03	<0.2	0.02
434904110364701	09-24-97	120	98	--	--	--	--	--
434920110365601	09-23-97	111	91	--	--	--	--	--
434920110370801	05-30-97	148	121	<0.01	0.99	<0.02	<0.2	0.04
	07-07-97	183	150	<0.01	2.16	<0.02	<0.2	0.04
	08-12-97	190	156	<0.01	2.14	0.02	<0.2	0.04
	09-23-97	200	164	<0.01	2.63	0.02	<0.2	0.04
434927110370801	05-30-97	239	196	<0.01	6.64	0.02	0.2	0.44
	07-08-97	278	228	<0.01	7.49	0.02	0.3	0.35
	08-12-97	286	234	<0.01	6.14	<0.02	0.3	0.45
	09-23-97	210	172	0.10	6.63	0.04	0.4	0.40
435327110375601	05-29-97	104	85	0.01	0.07	0.17	0.4	<0.01
	07-10-97	115	94	<0.01	0.05	0.03	0.7	<0.01
435342110380801	05-29-97	56	46	<0.01	<0.05	0.03	<0.2	<0.01
	07-10-97	63	52	<0.01	<0.05	<0.02	0.5	0.02
435354110372401	09-24-97	41	34	--	--	--	--	--
435354110373201	09-24-97	81	66	--	--	--	--	--
435355110372401	09-24-97	40	33	--	--	--	--	--
435357110374101	05-28-97	62	51	<0.01	0.07	1.06	1.4	2.07
	07-09-97	151	124	<0.01	<0.05	2.33	3.1	1.43
	08-13-97	198	162	<0.01	0.05	3.80	4.9	1.37
	09-24-97	222	182	<0.01	<0.05	4.82	5.6	1.30
435403110372001	09-24-97	51	42	--	--	--	--	--
435407110374001	05-28-97	26	21	<0.01	0.08	<0.02	<0.2	0.03
	07-10-97	32	26	<0.01	0.10	<0.02	<0.2	0.03
	08-13-97	33	27	<0.01	0.12	<0.02	<0.2	0.02
	09-24-97	37	30	<0.01	0.12	0.05	<0.2	0.05
440640110401001	09-25-97	156	128	--	--	--	--	--
440643110400101	09-25-97	129	106	--	--	--	--	--
440645110401101	05-29-97	171	140	<0.01	0.13	<0.02	<0.2	0.01
	07-08-97	166	136	<0.01	0.34	<0.02	<0.2	0.01
	08-14-97	168	138	<0.01	0.20	<0.02	<0.2	0.02
	09-25-97	164	134	<0.01	0.12	0.02	<0.2	0.02
440645110402001	05-29-97	194	159	<0.01	4.50	<0.02	<0.2	0.12
	07-08-97	198	162	<0.01	13.1	<0.02	<0.2	0.11
	08-14-97	185	152	<0.01	2.48	<0.02	<0.2	0.20
	09-25-97	164	134	<0.01	0.60	0.03	<0.2	0.22
440657110402601	05-29-97	227	186	<0.01	0.08	<0.02	<0.2	0.02
	07-08-97	232	190	<0.01	0.10	0.02	<0.2	0.02
	08-13-97	237	194	<0.01	0.10	0.02	<0.2	0.02
	09-26-97	232	190	<0.01	0.07	0.04	<0.2	0.02
440659110402001	05-29-97	204	167	<0.01	0.11	<0.02	<0.2	0.02
	07-08-97	200	164	<0.01	0.11	0.02	0.3	0.02
	08-13-97	200	164	<0.01	0.12	0.05	<0.2	0.03
	09-26-97	195	160	<0.01	0.10	0.02	<0.2	0.02

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
<i>Length</i>		
inch (in.)	2.54×10^1	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^0	kilometer
<i>Area</i>		
acre	4.047×10^3	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi ²)	2.590×10^0	square kilometer
<i>Volume</i>		
gallon (gal)	3.785×10^0	liter
	3.785×10^0	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^3	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft ³)	2.832×10^1	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft ³ /s) d]	2.447×10^3	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^3	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
<i>Flow</i>		
cubic foot per second (ft ³ /s)	2.832×10^1	liter per second
	2.832×10^1	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^1	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
<i>Mass</i>		
ton (short)	9.072×10^{-1}	megagram or metric ton

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

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