

GROUND-WATER LEVELS IN WYOMING, 1976 THROUGH 1985

By Hugh I. Kennedy and Christopher B. Oberender

U.S. GEOLOGICAL SURVEY

Open-File Report 87-456

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WYOMING STATE ENGINEER

and the

WYOMING ECONOMIC DEVELOPMENT AND STABILIZATION BOARD

Cheyenne, Wyoming

1987



DEPARTMENT OF THE INTERIOR
DONALD PAUL HODEL, SECRETARY
U.S. GEOLOGICAL SURVEY
Dallas L. Peck, Director

For additional information
write to:

District Chief
U.S. Geological Survey
2120 Capitol Avenue
P.O. Box 1125
Cheyenne, Wyoming 82003

Copies of this report can be
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Federal Center
Box 25425
Denver, Colorado 80225

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CONVERSION FACTORS

For use of readers who prefer to use International System (SI) units, rather than the inch-pound terms used in this report, the following conversion factors may be used:

<i>Multiply inch-pound unit</i>	<i>By</i>	<i>To obtain SI unit</i>
acre	4047	hectare
foot (ft)	0.3048	meter
mile	1.609	kilometer

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ABSTRACT

Ground-water levels are measured periodically in a network of 84 observation wells in Wyoming, mostly in areas where ground water is used in large quantities for irrigation or municipal purposes. The monitoring program is conducted by the U.S. Geological Survey in cooperation with the Wyoming State Engineer and the Wyoming Economic Development and Stabilization Board. This report includes maps showing the locations of the selected wells, tables listing well history and highest and lowest water levels for the period of record, and hydrographs for 1976 through 1985.

INTRODUCTION

Since 1940 the Geological Survey, in cooperation with city, State, and other Federal agencies, has periodically measured ground-water levels in a large number of wells in Wyoming. These observation wells primarily have been in areas where ground water is used in large quantities for irrigation or municipal purposes. The program currently is conducted by the U.S. Geological Survey in cooperation with the Wyoming State Engineer and the Wyoming Economic Development and Stabilization Board.

A more extensive program was started in 1972 in an effort to expand the ground-water-level data base throughout the State. Part of the expansion included the installation of continuous recorders on selected observation wells in the well network. During 1985 a continuous record of water levels was obtained from 72 wells equipped with digital water-level recorders; the remaining wells were periodically measured by hand.

Hydrographs for the 84 wells in the observation network are included in this report. The hydrographs were plotted using either continuous water-level records or periodic water-level measurements. The daily maximum water level was plotted for those wells equipped with continuous recorders. These hydrographs depict annual water-level fluctuations and water-level trends during 1976-85. If more precise water levels are needed, tabulations of actual water-level measurements (recorded to the nearest one-hundredth of a foot) are available from the U.S. Geological Survey, 2120 Capitol Avenue, P.O. Box 1125, Cheyenne, Wyoming 82003 (telephone 303-772-2153; FTS 328-2153).

Wyoming water-level data and hydrographs for periods prior to 1983 may be found in eight previous reports of ground-water levels, compiled by the U.S. Geological Survey (Ringin, 1973 and 1974; Ballance and Freudenthal, 1975, 1976, and 1977; Stevens, 1978; Ragsdale, 1982; Ragsdale and Oberender, 1985).

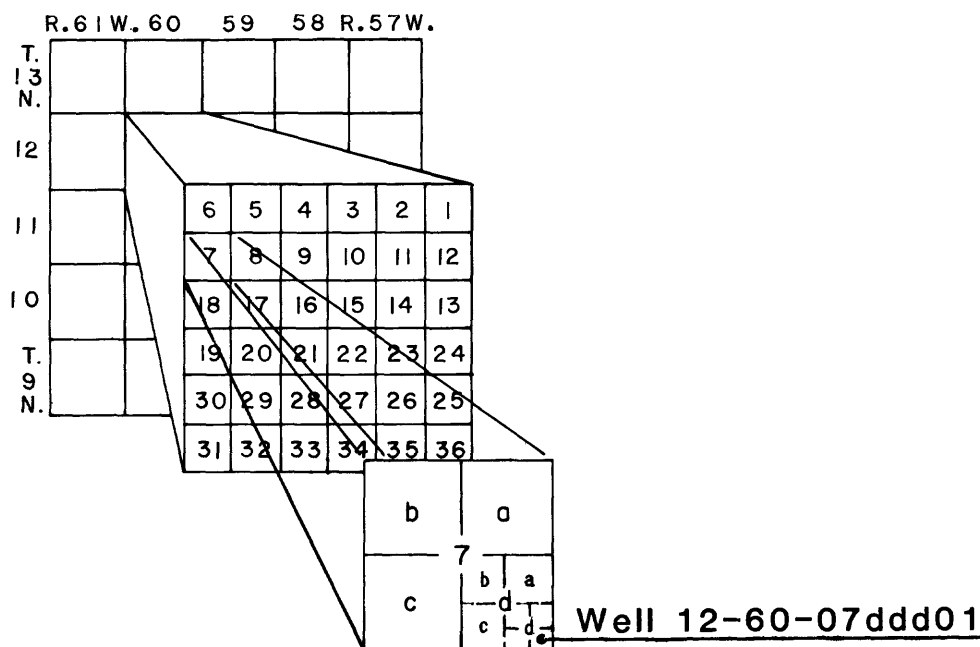
PRESENTATION OF DATA

The data are presented alphabetically by county. Locations of counties are shown on figure 1. Records of observation wells for each county are listed in a table that is preceded by a map showing the locations of the wells in that county (figs. 2-16). Hydrographs for wells for 1976 through 1985 or for the period of record (if less than 10 years) succeed the table for each county.

Numbering System for Wells

The locations of most wells in this report are based on the Federal system of land subdivision. The first number denotes the township north of the 40th Parallel Base Line, the second number denotes the range west of the Sixth Principal Meridian, and the third number denotes the section. A section is divided into quarters of 160 acres each; each quarter is designated a, b, c, or d in a counterclockwise direction, beginning in the northeast quarter. Each quarter is divided into quarters of 40 acres each and again into quarters (10-acre tracts). Alphabetical designations are also assigned to these subsequent subdivisions. A numeral appearing after the letters distinguishes that well from other numbered wells within the same 10-acre tract.

The following illustration shows the location of well 12-60-07ddd01 in Laramie County:



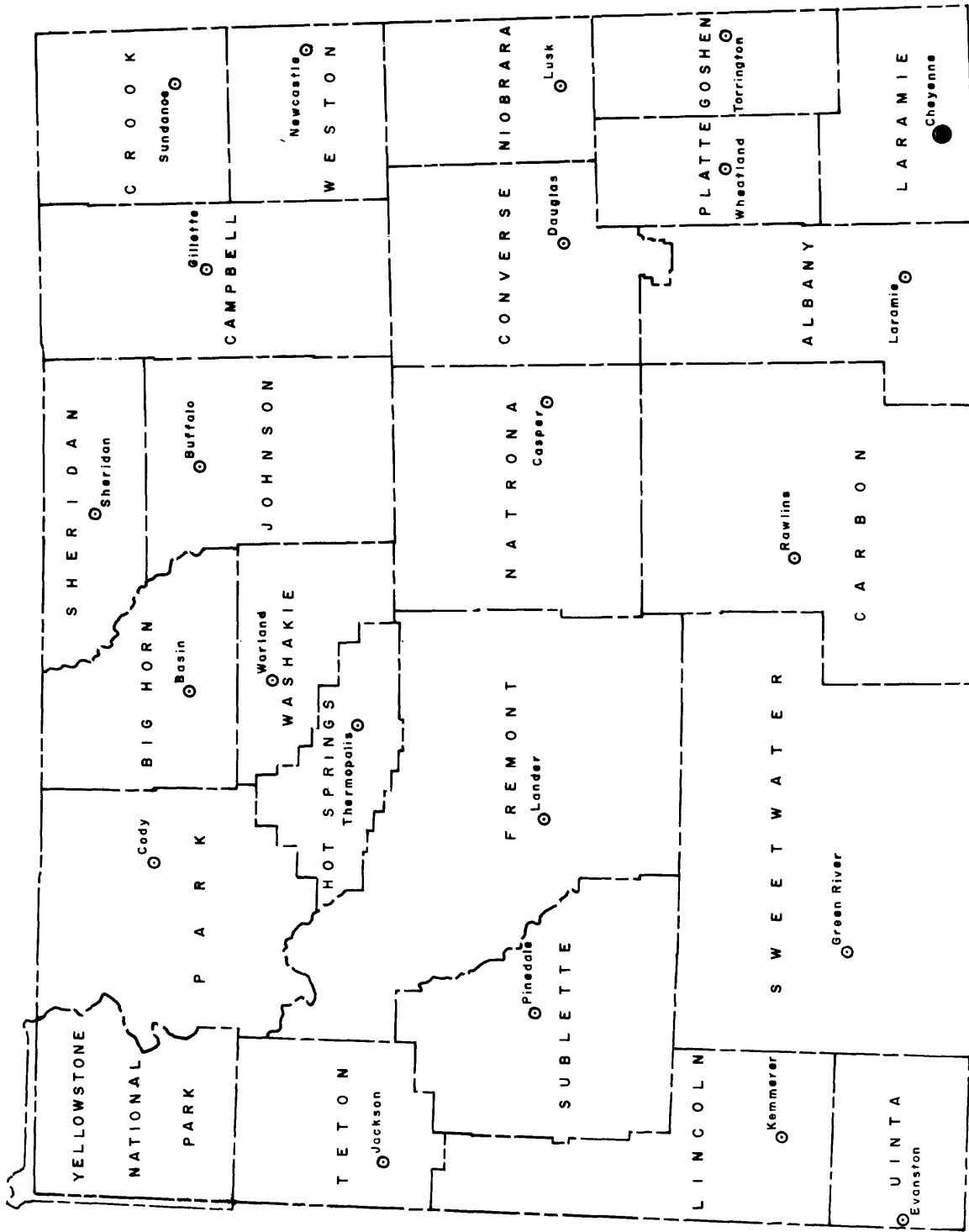
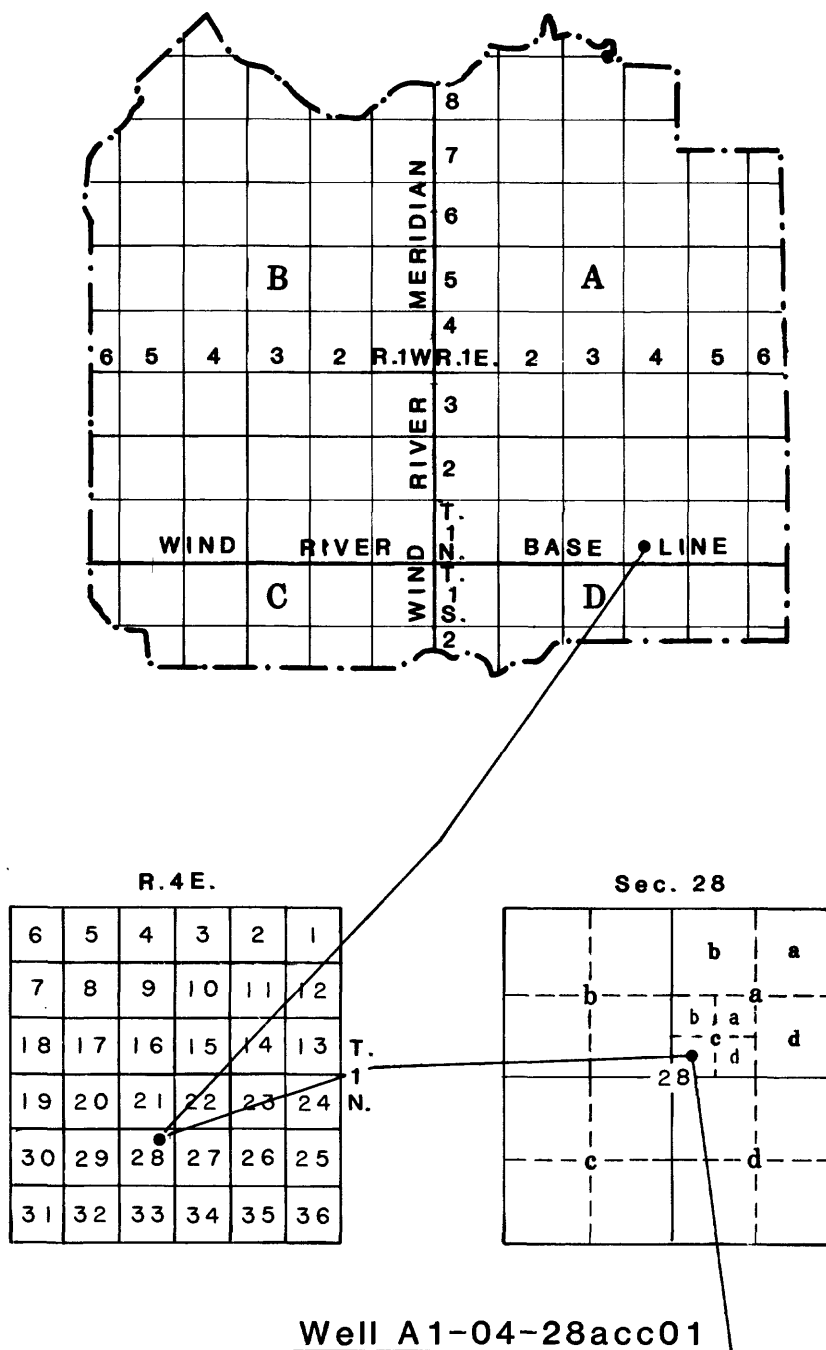


Figure 1.--Counties of Wyoming.

Observation wells on the Wind River Indian Reservation and adjacent area in Fremont County (fig. 7) are similarly located; however, they are in a land subdivision that is referenced as the Wind River Base Line and Meridian (McGreevy and others, 1969). Wells within this system may be in the northeast, northwest, southwest, or southeast quadrants of this base-line and meridian net. Well numbers in this land net have uppercase-letter prefixes that designate the quadrants; A designates the northeast quadrant, B the northwest, C the southwest, and D the southeast.

The following illustration shows the location of well A1-04-28acc01 in Fremont County:



Explanation of Column Headings for Tables of Well Records

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

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

Use of water: H, domestic; I, irrigation; P, municipal; S, stock; N, industrial; U, unused.

Geologic source: The geologic source codes have been retrieved from Water Data Storage and Retrieval System (WATSTORE) of the U.S. Geological Survey and may not follow the current usage of the USGS.

			Geologic Source Code	Formation name
Era	System	Series		
Cenozoic	Quaternary	Holocene	111ALVM	Alluvium
			111TRRC	Terrace deposits
	Tertiary	Pliocene	121NRPK	North Park Formation ¹
			121OGLL	Ogallala Formation ¹
		Miocene	122ARKR	Arikaree Formation
			Oligocene	123BRUL
		123WRVR		White River Formation or Group
Eocene	124LNEY	Laney Member of Green River Formation		
	124WDRV	Wind River Formation		
	124WSTC	Wasatch Formation		
Paleocene	125FRUN	Fort Union Formation		
	Mesozoic	Cretaceous	Upper Cretaceous	211ALMD
211FXHL			Fox Hills Sandstone	
211LNCE		Lance Formation		
211MVRD		Mesaverde Formation or Group		
211STEL		Steele Shale		
Lower Cretaceous	217LKOT	Lakota Formation		
	Jurassic	Upper Jurassic	221SNDC	Sundance Formation
Triassic	Lower Triassic	237SPRF	Spearfish Formation ²	
Paleozoic	Permian	Lower Permian	317CSPR	Casper Formation
			317FRLL	Forelle Limestone Member ³ of Goose Egg Formation
			317MNKT	Minnekahta Limestone
	Missis- sippian	Upper Mississippian	331MDSN	Madison Limestone
		Lower Mississippian	337PHSP	Pahasapa Limestone
	Cambrian	Middle Cambrian	374FLTD	Flathead Quartzite or Sandstone

¹ Now designated Miocene by the U.S. Geological Survey

² Now designated Triassic and Upper Permian by the U.S. Geological Survey

³ Now designated Upper Permian by the U.S. Geological Survey

Explanation of Column Headings for Tables of Well Records--Continued

Records available: Years for which water-level measurements are available.

Water levels: The highest and lowest water levels are for the period of record and reflect the static water level unless otherwise footnoted.

Explanation of Hydrographs



Water-level data obtained by continuous water-level recorders. Missing sections of lines are periods of no data.

Δ--Δ

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

REFERENCES CITED

Ballance, W.C., and Freudenthal, P.B., 1975, Ground-water levels in Wyoming, 1974: U.S. Geological Survey open-file report, 186 p.

____ 1976, Ground-water levels in Wyoming, 1975: U.S. Geological Survey Open-File Report 76-598, 170 p.

____ 1977, Ground-water levels in Wyoming, 1976: U.S. Geological Survey Open-File Report 77-686, 187 p.

McGreevy, L.J., Hodson, W.G., and Rucker, S.J., IV, 1969, Ground-water resources of the Wind River Indian Reservation, Wyoming: U.S. Geological Survey Water-Supply Paper 1576-I, 145 p.

Ragsdale, J.O., 1982, Ground-water levels in Wyoming, 1971 through part of 1980: U.S. Geological Survey Open-File Report 82-859, 200 p.

Ragsdale, J.O., and Oberender, C.B., 1985, Ground-water levels in Wyoming, 1974 through 1983: U.S. Geological Survey Open-File Report 85-403, 194 p.

Ringgen, B.H., 1973, Records of ground-water levels in Wyoming, 1940-1971: Wyoming State Engineer's Office, Wyoming Water Planning Program Report No. 13, 479 p.

____ 1974, Ground-water levels in Wyoming, 1972-73: Wyoming State Engineer's Office, Wyoming Water Planning Program Report No. 13, Supplement No. 1, 158 p.

Stevens, M.D., 1978, Ground-water levels in Wyoming, 1977: U.S. Geological Survey Open-File Report 78-605, 203 p.

GROUND-WATER LEVELS BY COUNTY

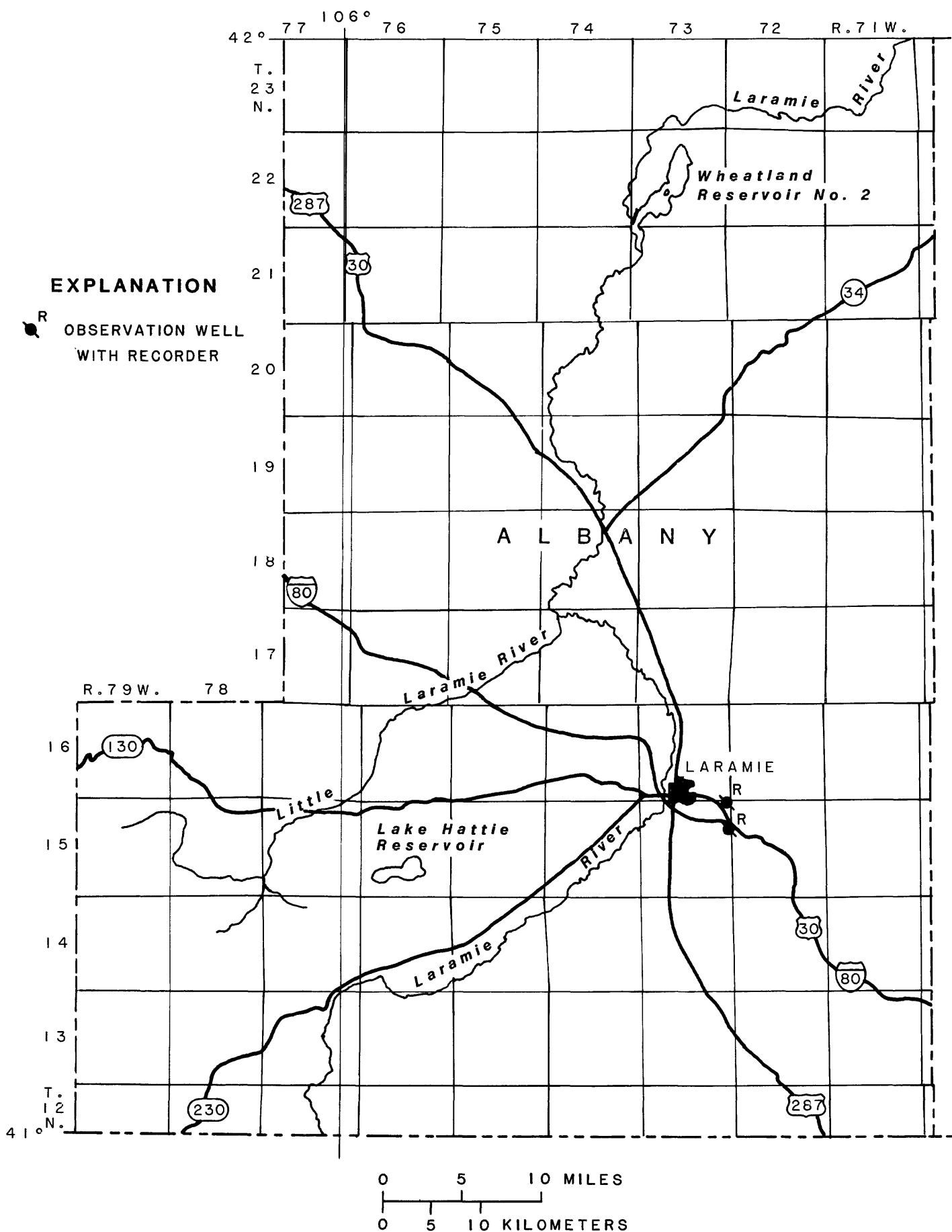


Figure 2.--Location of observation wells in Albany County, Wyoming.

Records of observation well in Albany County, Wyoming, and highest and lowest recorded water levels, in feet below land surface.

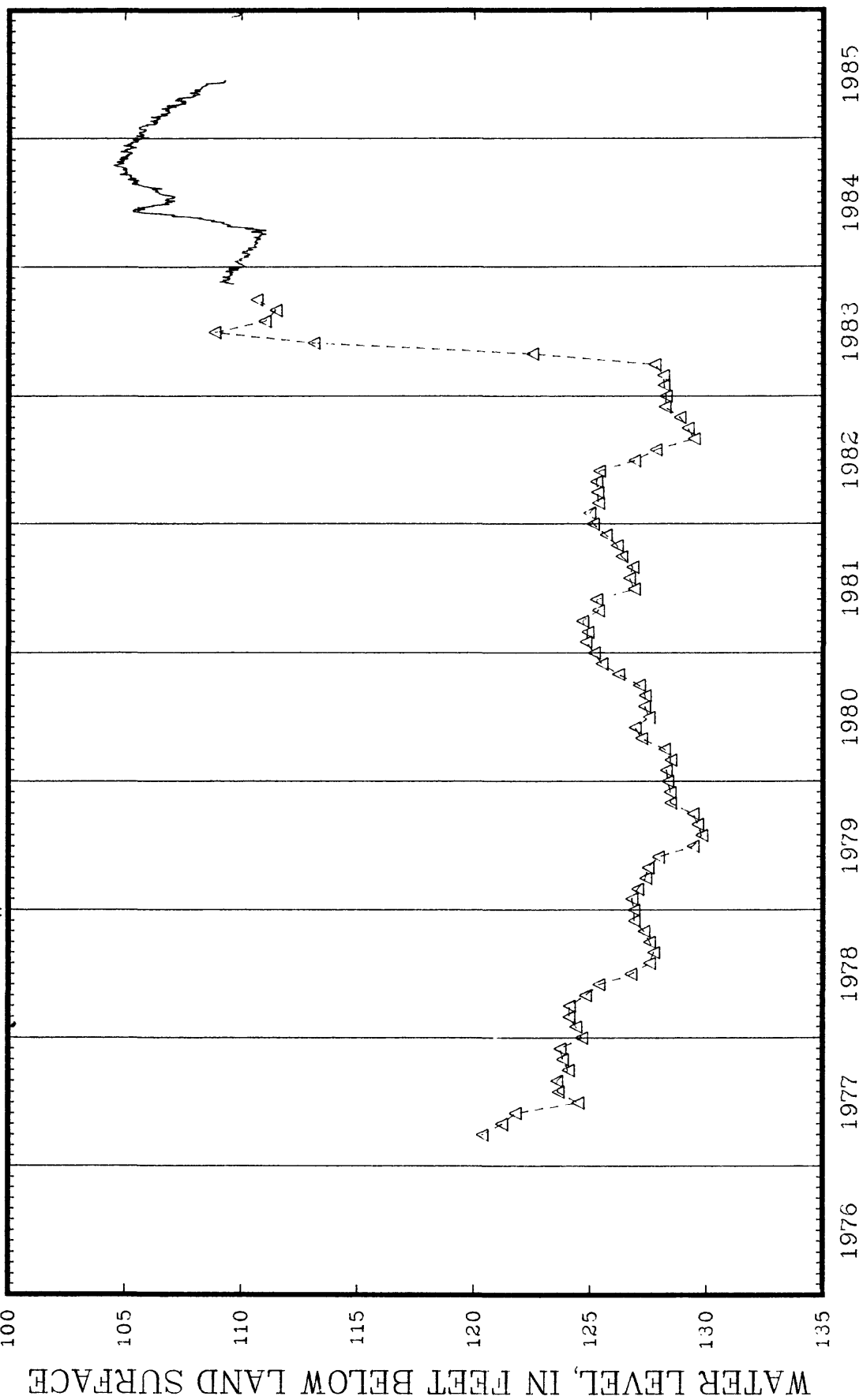
Well number	Well depth (ft)	Use of water	Geologic source	Record available (yr)	Water levels			
					Highest		Lowest	
					Level (ft)	Month-year	Level (ft)	Month-year
15-73-01dba01	182	S	317CSPR	1977-85	104.45	10-84	¹ 129.80	08-79
15-73-12dbb01	243	S	317CSPR	1978-85	59.84	09-84	¹ 85.56	05-82

¹ From hand-measured data

ALBANY COUNTY

15-73-01dba01 Hunt #1

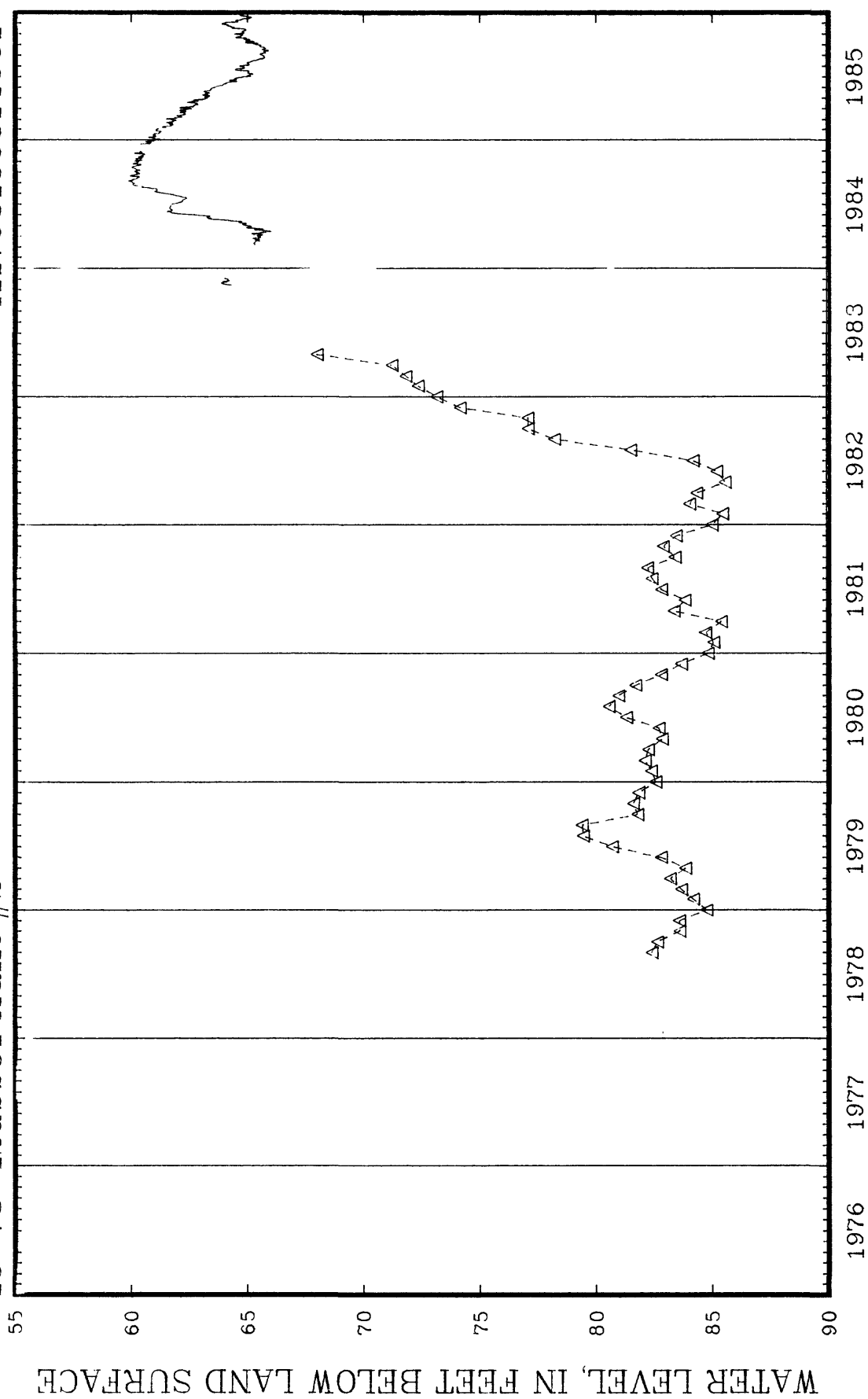
411751105312701



ALBANY COUNTY

15-73-12dbb01 Hunt #2

411703105314001



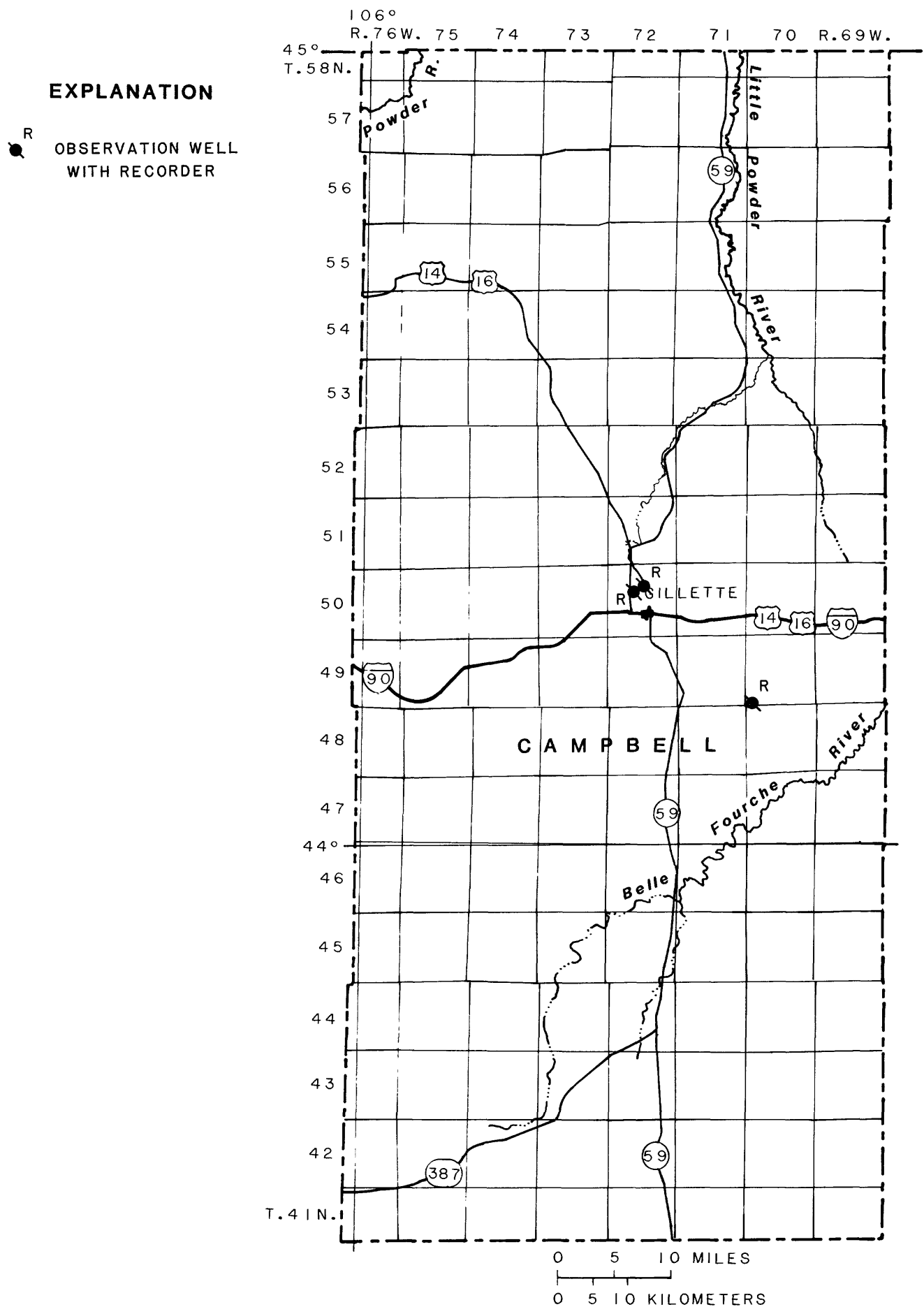


Figure 3.--Location of observation wells in Campbell County, Wyoming.

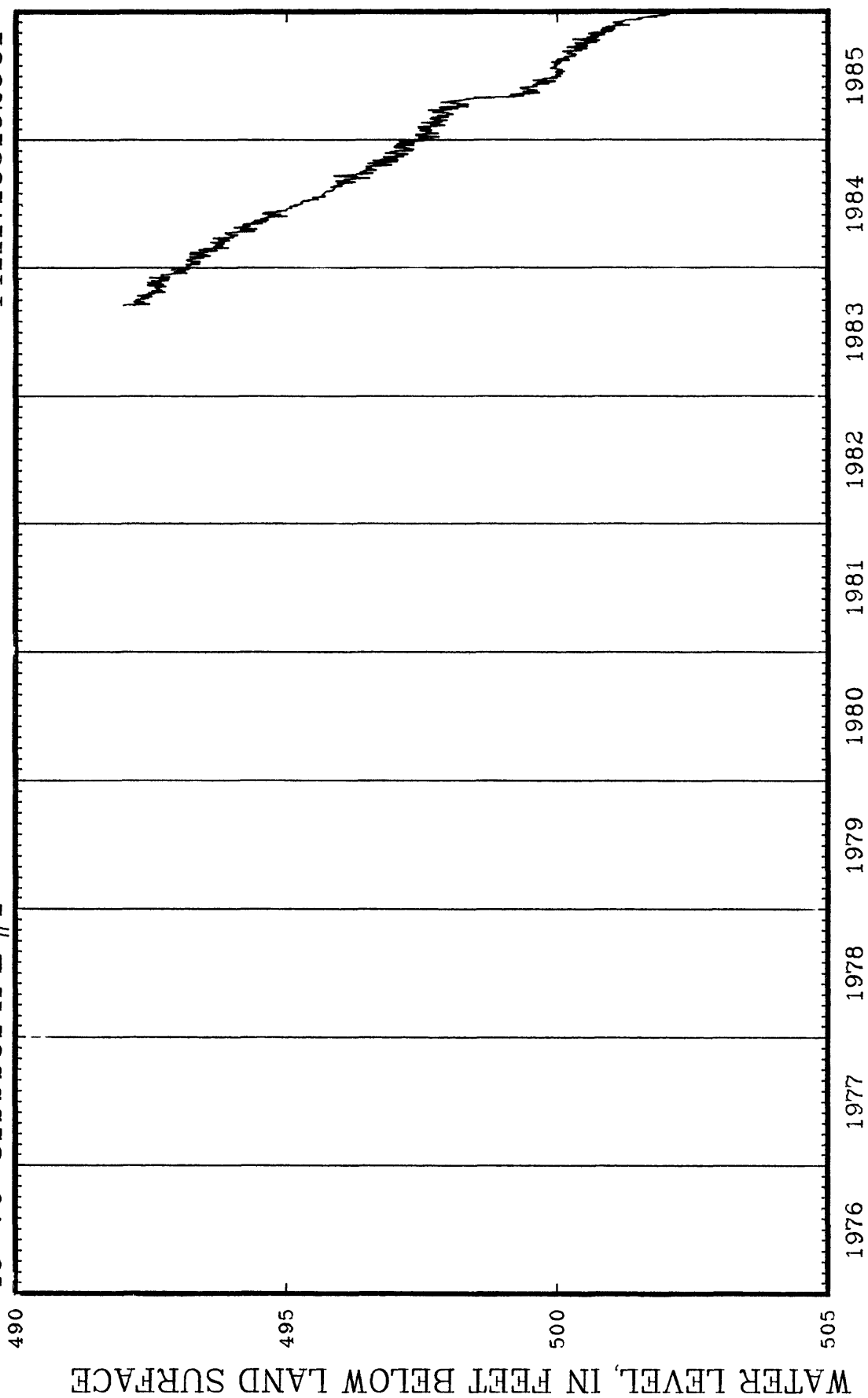
Records of observation wells in Campbell County, Wyoming, and highest and lowest recorded water levels, in feet below land surface.

Well number	Well depth (ft)	Use of water	Geologic source	Records available (yr)	Water levels			
					Highest		Lowest	
					Level (ft)	Month-year	Level (ft)	Month-year
49-70-31bbb01	3,754	U	211FXHL	1983-85	491.98	09-83	502.27	12-85
50-72-21aba01	320	P	124WSTC	1983-85	84.17	12-85	95.71	06-83
50-72-22dba01	826	P	125LEBO	1985	600.99	05-85	621.25	10-85

CAMPBELL COUNTY

49-70-31bbb01 H E #1

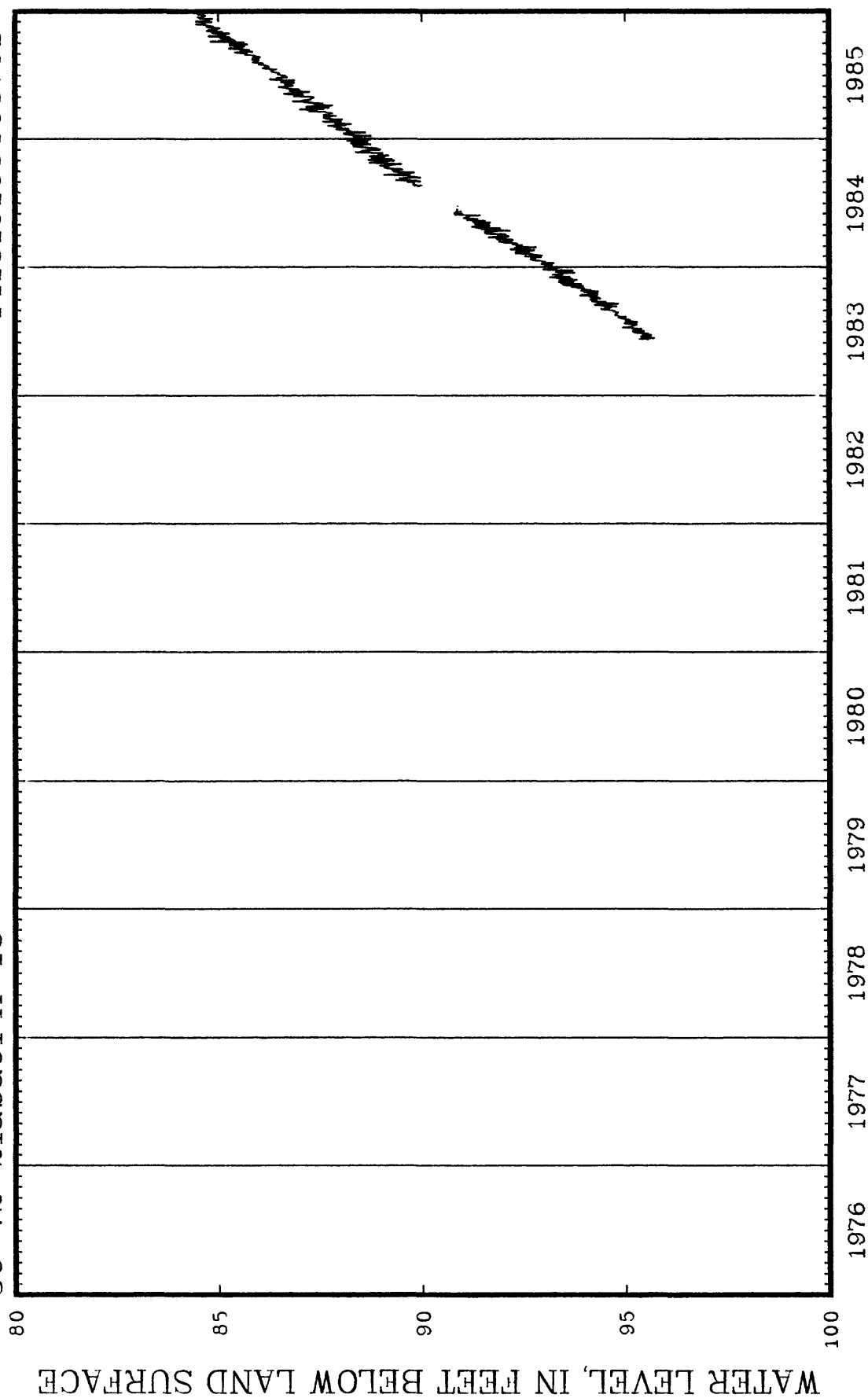
441117105192901



CAMPBELL COUNTY

50-72-21aba01 H-13

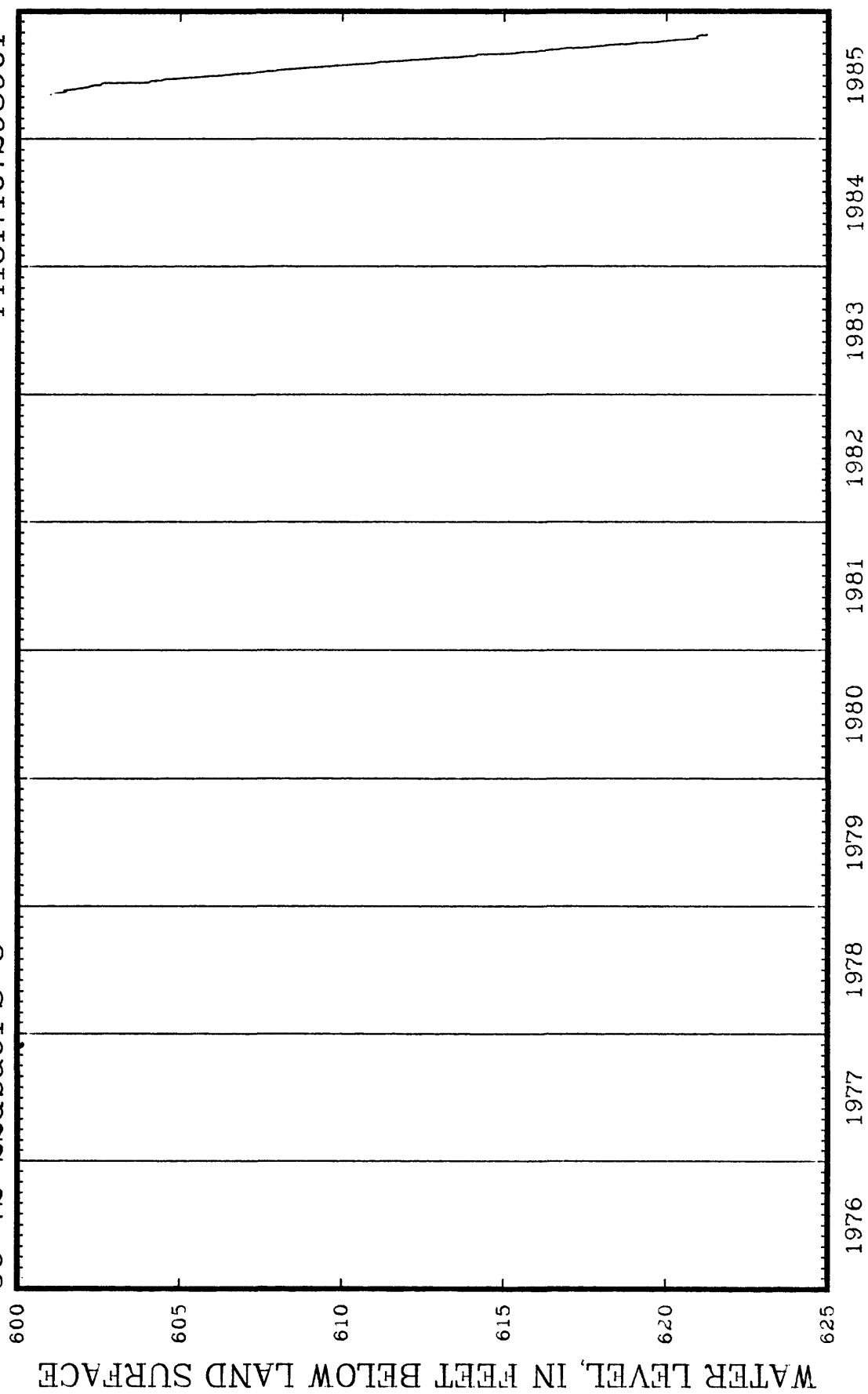
441819105305701



CAMPBELL COUNTY

50-72-22dba01 S-8

441817107293901



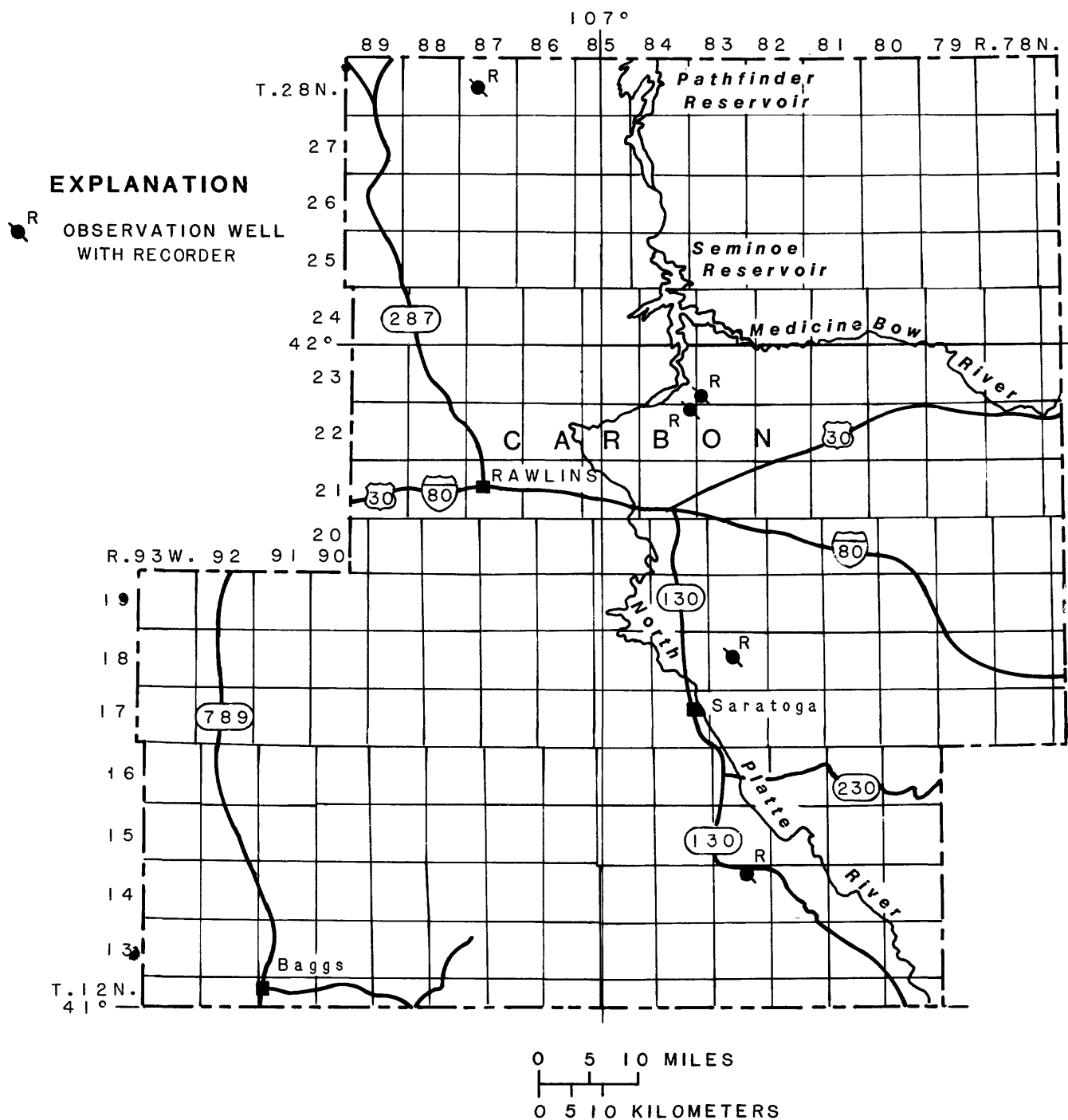


Figure 4.--Location of observation wells in Carbon County, Wyoming.

Records of observation wells in Carbon County, Wyoming, and highest and lowest recorded water levels, in feet below land surface.

Well number	Well depth (ft)	Use of water	Geologic source	Records available (yr)	Water levels			
					Highest		Lowest	
					Level (ft)	Month-year	Level (ft)	Month-year
14-83-03cab01	58	I	121NRPK	1980-85	8.77	05-84	16.40	09-82
18-83-17cbd01	92	U	121NRPK	1980-485	22.02	08-80	228.92	08-81
22-84-01bcb01	150	U	111SPBK	1983-85	81.76	12-85	94.33	11-83
23-83-31bbb01	140	U	125FRRS	1985	70.24	01-85	85.18	04-85
28-87-16cca01	812	U	122ARKR	1981-85	162.80	05-84	2182.66	10-81

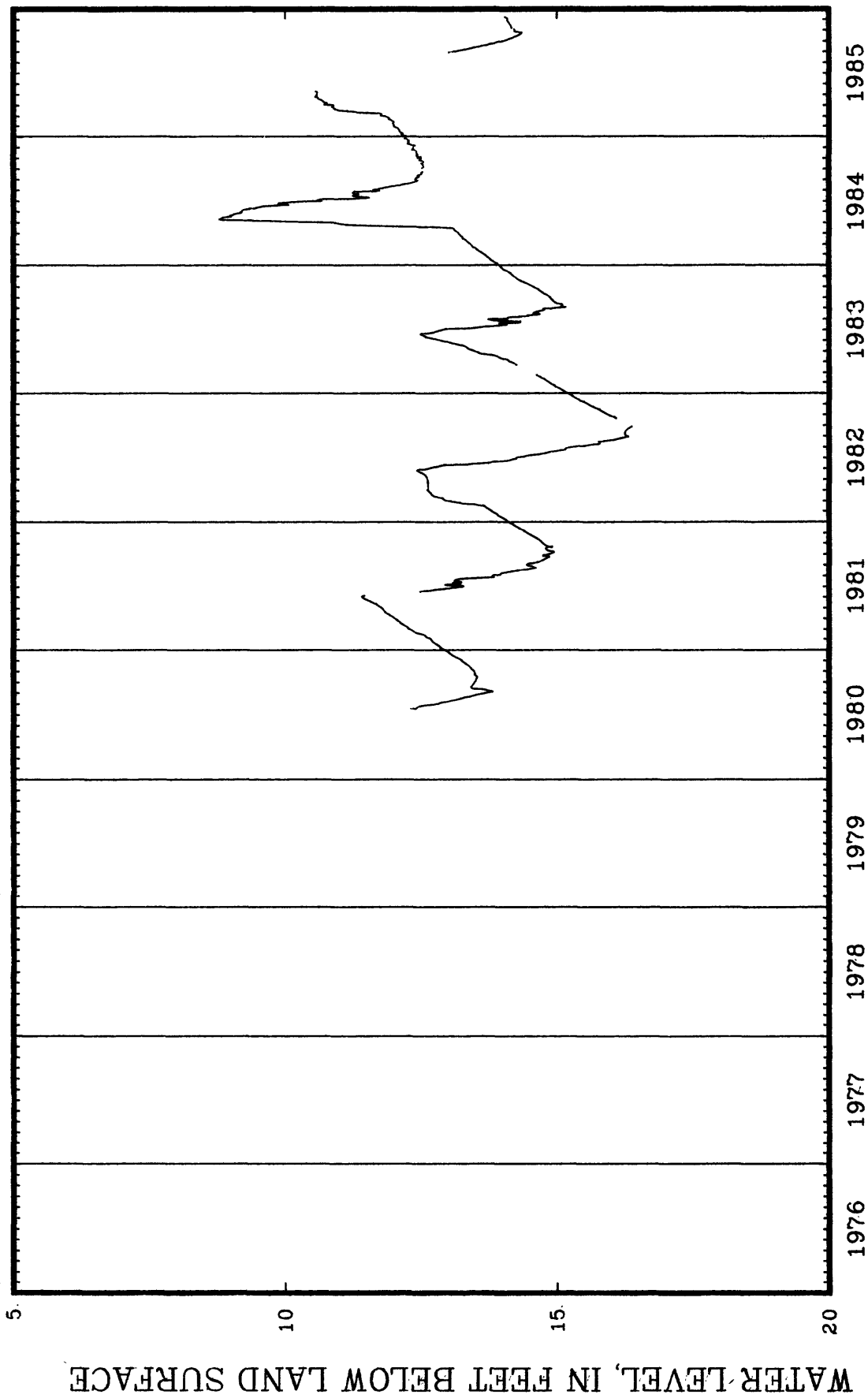
² Nearby well being pumped

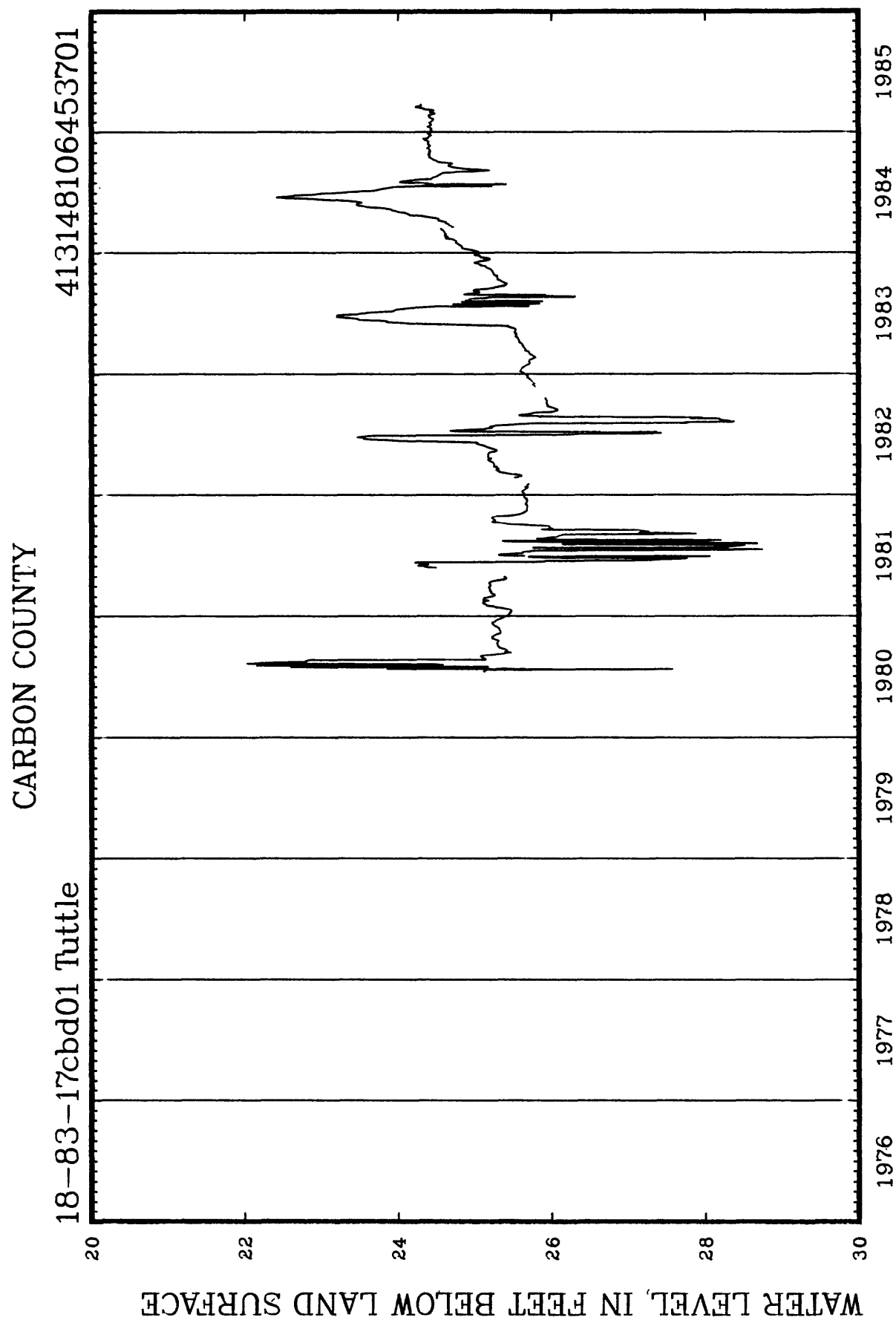
⁴ Discontinued

CARBON COUNTY

14-83-03cab01 Helmer

411234106424601

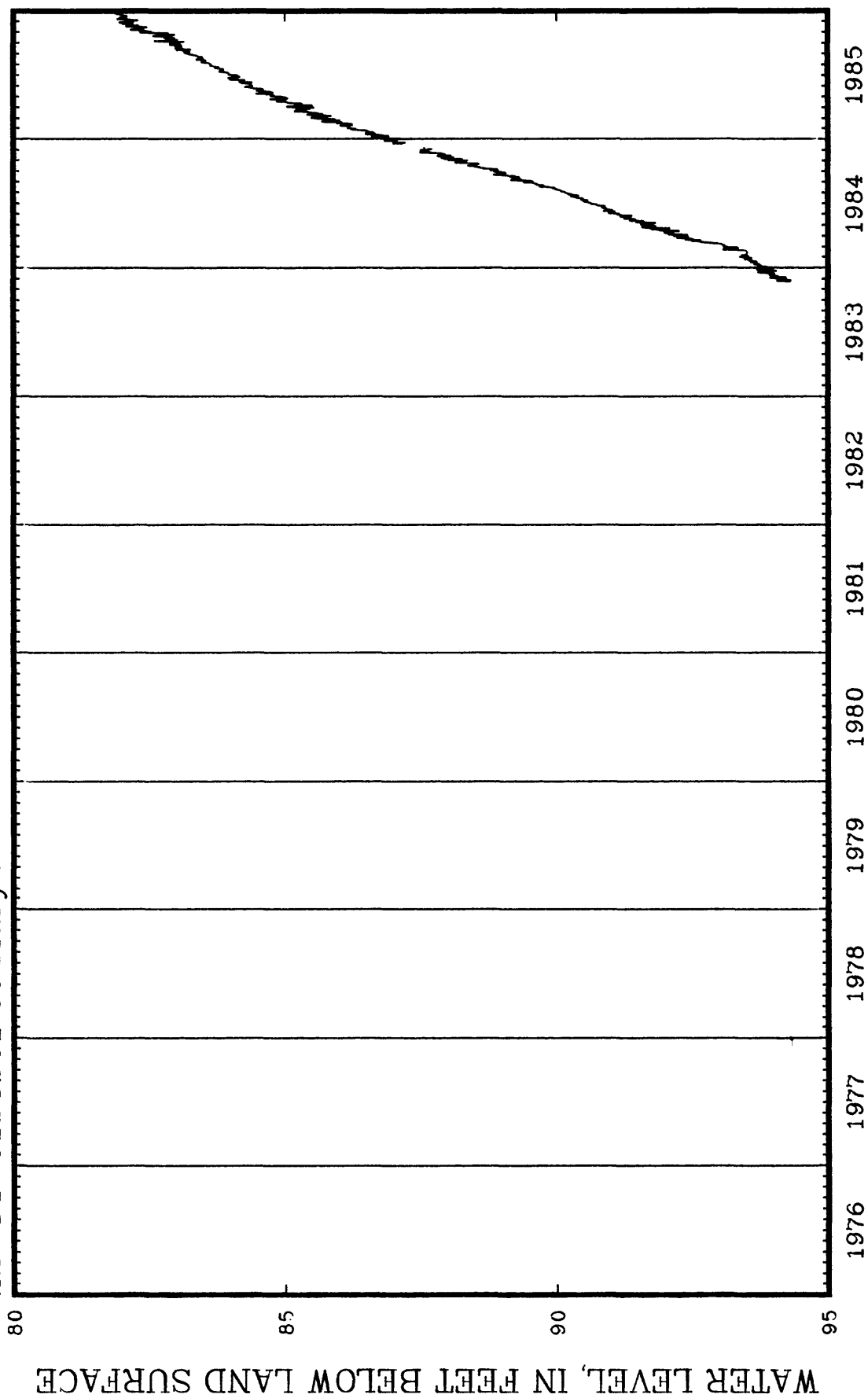




CARBON COUNTY

22-84-01bcb01 St Marys

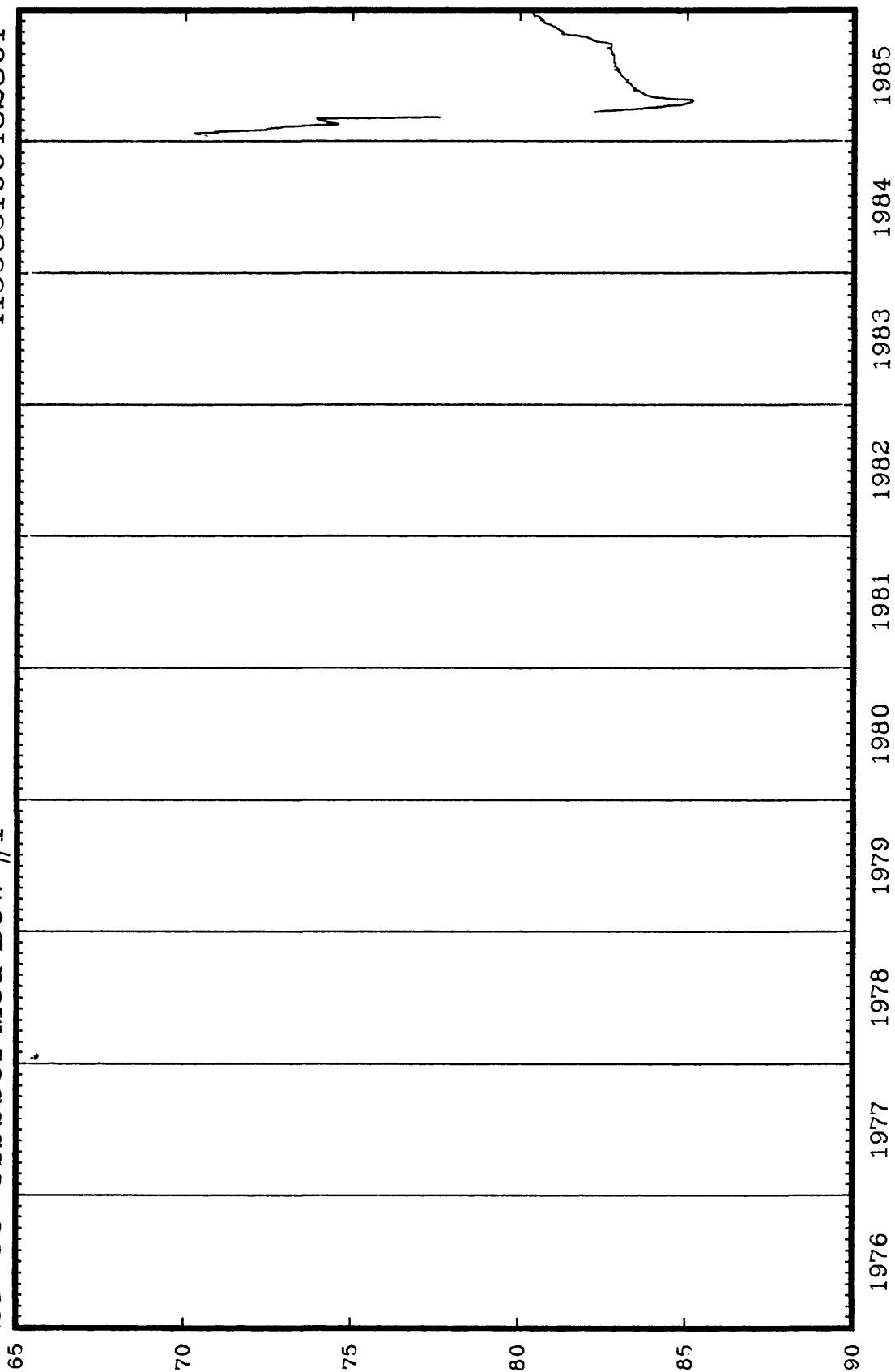
415430106493801



CARBON COUNTY

23-83-31bbb01 Med Bow #1

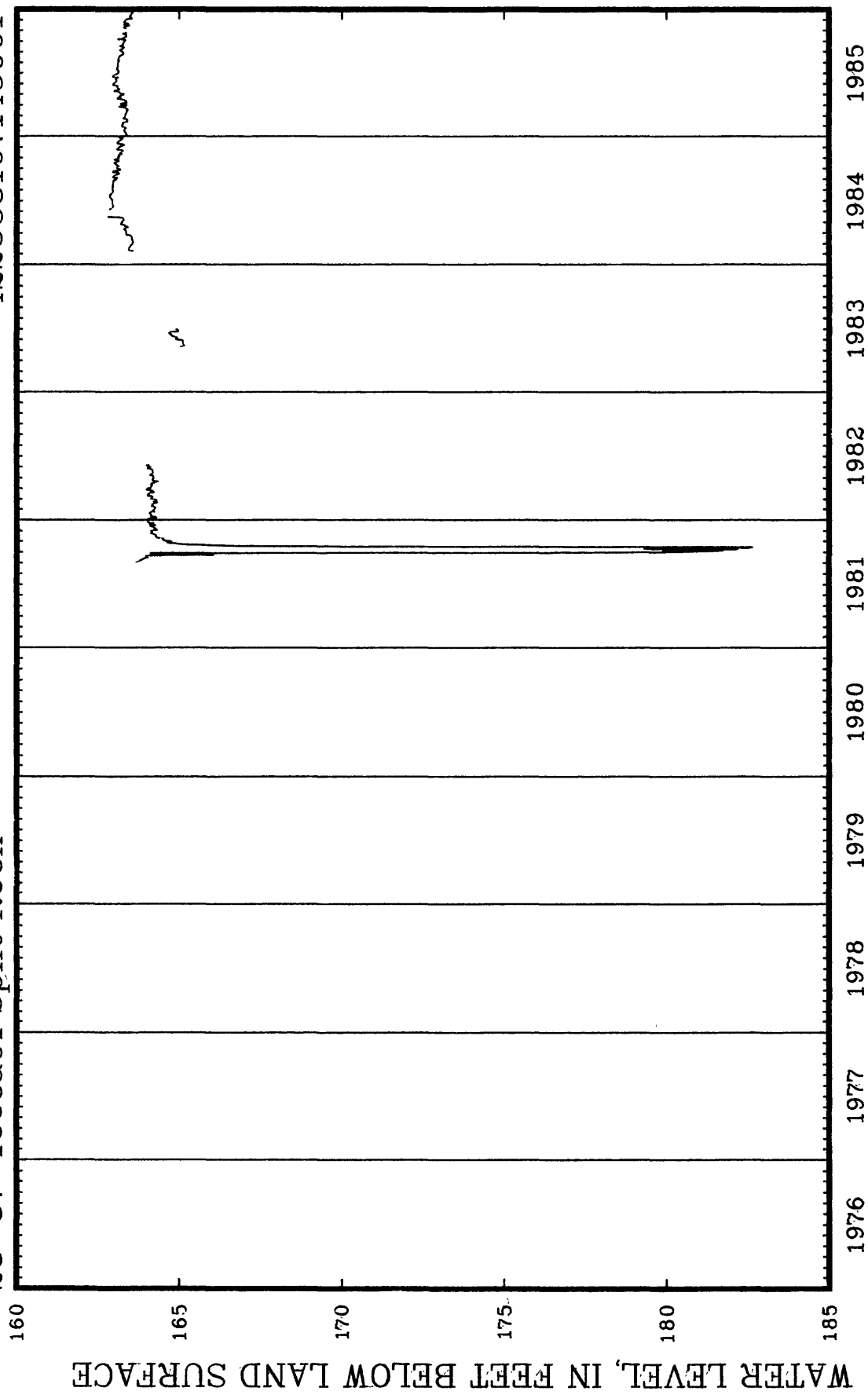
415535106482301



CARBON COUNTY

28-87-16cca01 Split Rock

422338107145001



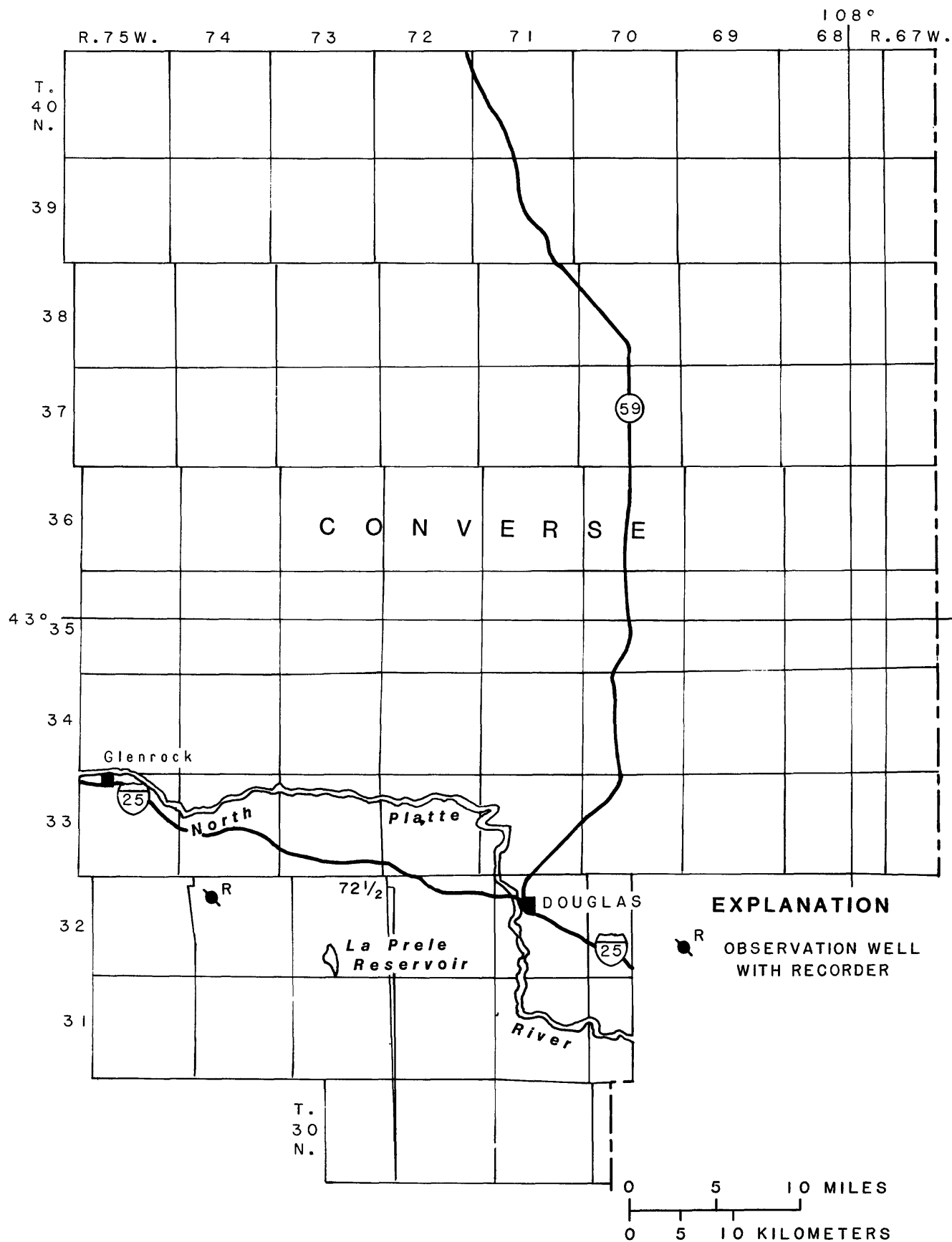


Figure 5.--Location of observation well in Converse County, Wyoming.

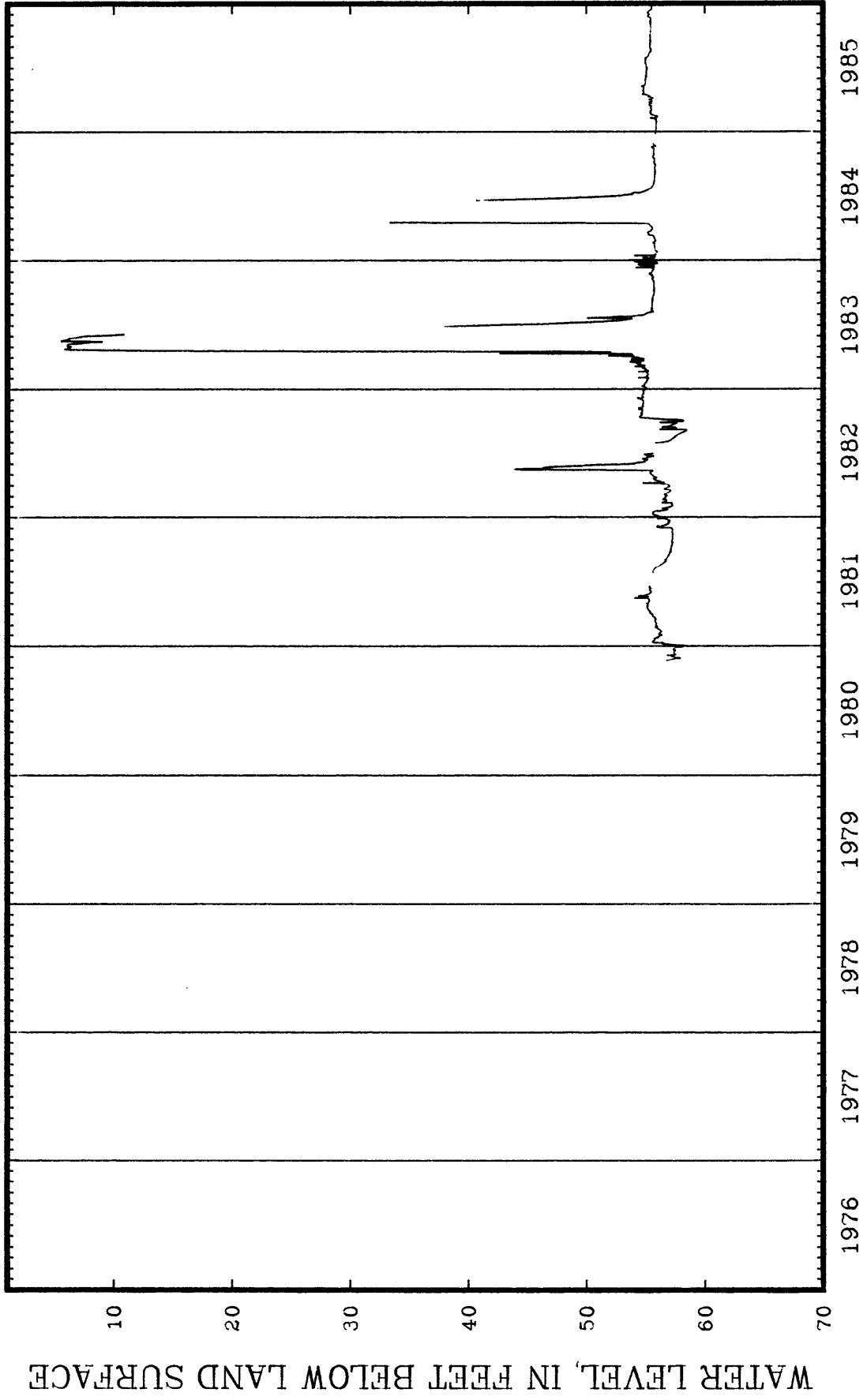
Record of observation well in Converse County, Wyoming, and highest and lowest recorded water levels, in feet below land surface.

Well number	Well depth (ft)	Use of water	Geologic source	Records available (yr)	Water levels			
					Highest Level (ft)	Month-year	Lowest Level (ft)	Month-year
32-74-08dbc01	100	U	331MDSN	1980-85	5.51	05-83	58.50	09-82

CONVERSE COUNTY

32-74-08dbc01 Barber

424520105440501



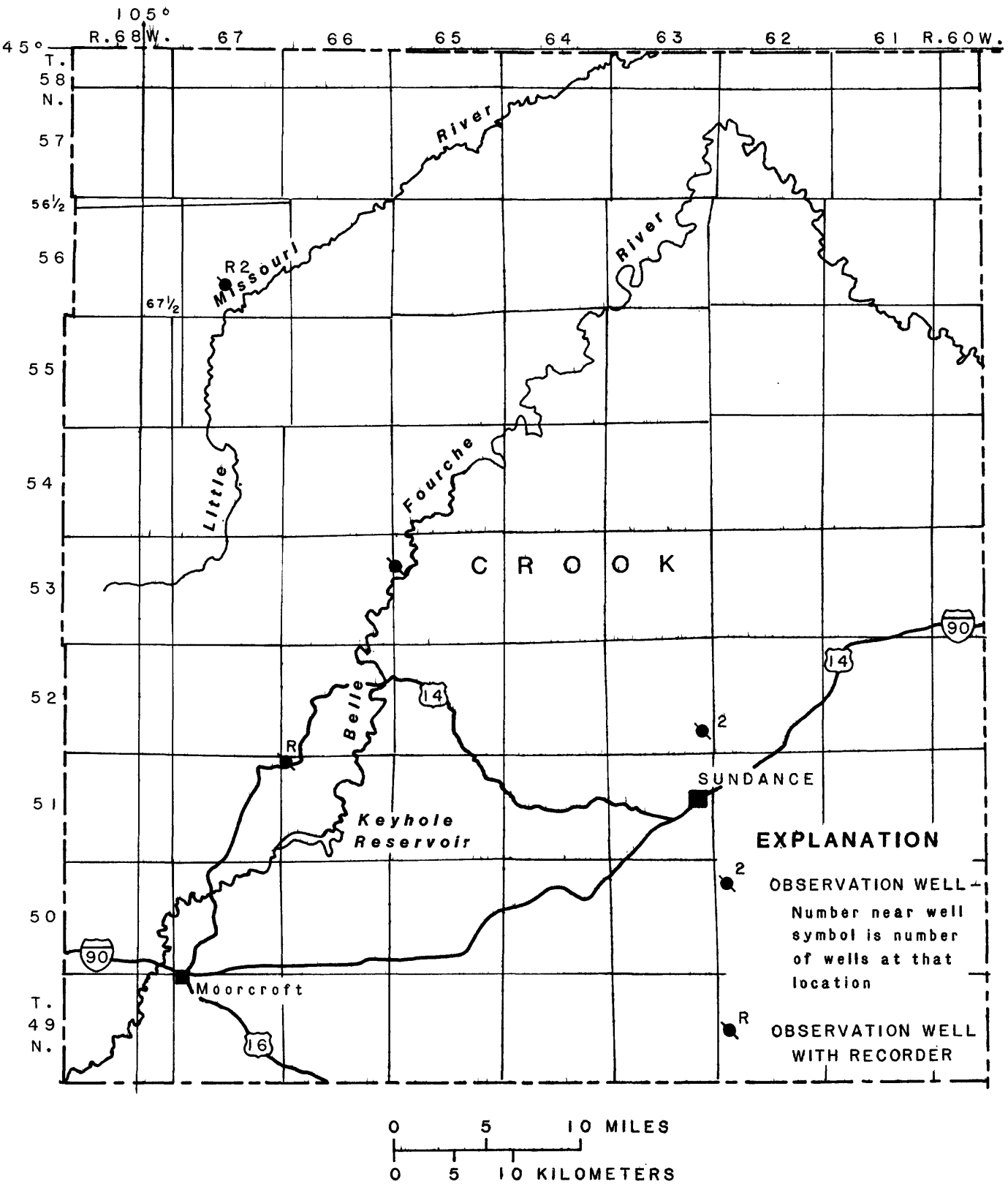


Figure 6.--Location of observation wells in Crook County, Wyoming.

Records of observation wells in Crook County, Wyoming, and highest and lowest recorded water levels, in feet below land surface.

Well number	Well depth (ft)	Use of water	Geologic source	Records available (yr)	Water levels			
					Highest		Lowest	
					Level (ft)	Month-year	Level (ft)	Month-year
51-66-06dcd01	3,001	P	331MDSN	1981-85	388.66	05-83	³ 434.58	09-83
52-63-25dcd01	1,123	P	331MDSN	1982-84	¹ 439.73	06-82	^{1,3} 451.89	02-83, 08-83, 01-84, 03-84
52-63-25dcd02	1,236	P	331MDSN	1984-85	¹ 431.45	04-84	^{1,3} 572.36	08-84
53-65-18bbd02	1,341	P	337PHSP	1962-84	¹ 3.90	09-76	^{1,3} 26.33	01-74
56-67-28aab01	3,320	U	331MDSN	1982-85	151.65	11-84	154.88	10-82
56-67-28aab02	2,240	U	331MDSN	1983-85	128.20	12-84	132.55	09-85

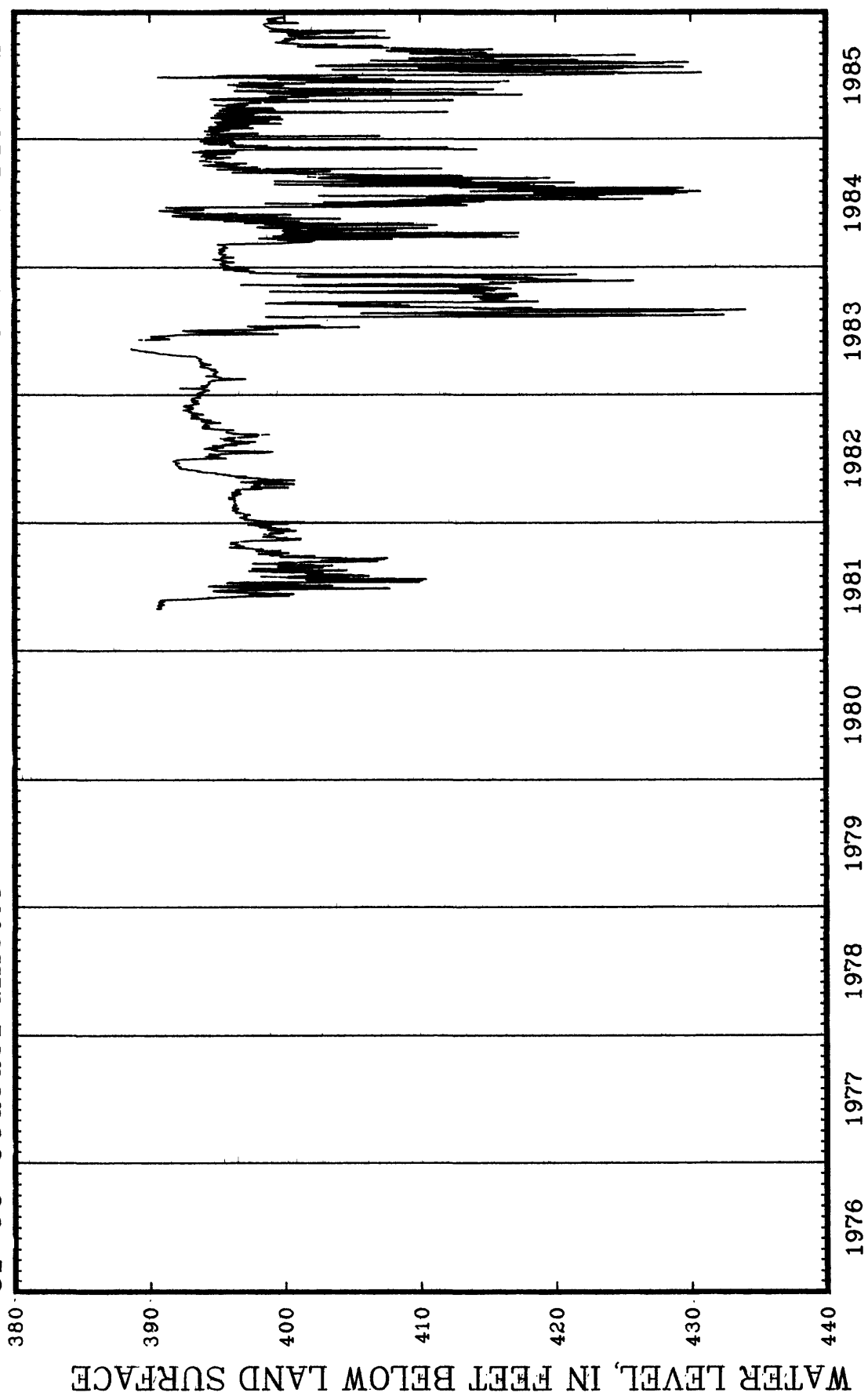
¹ From hand-measured data

³ Well being pumped

CROOK COUNTY

51-66-06dcd01 Gillette

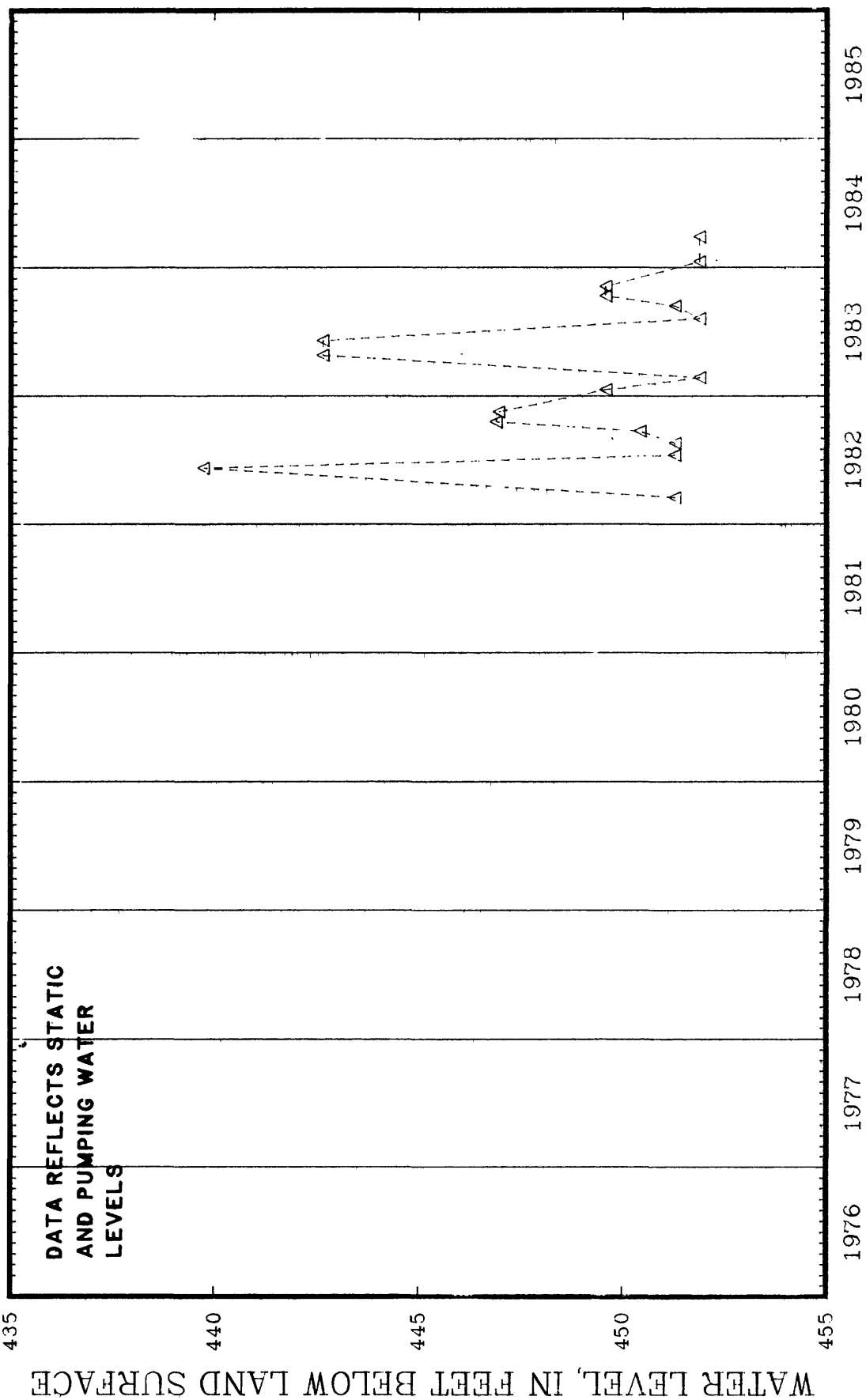
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CROOK COUNTY

52-63-25dcd01 Cole 3A

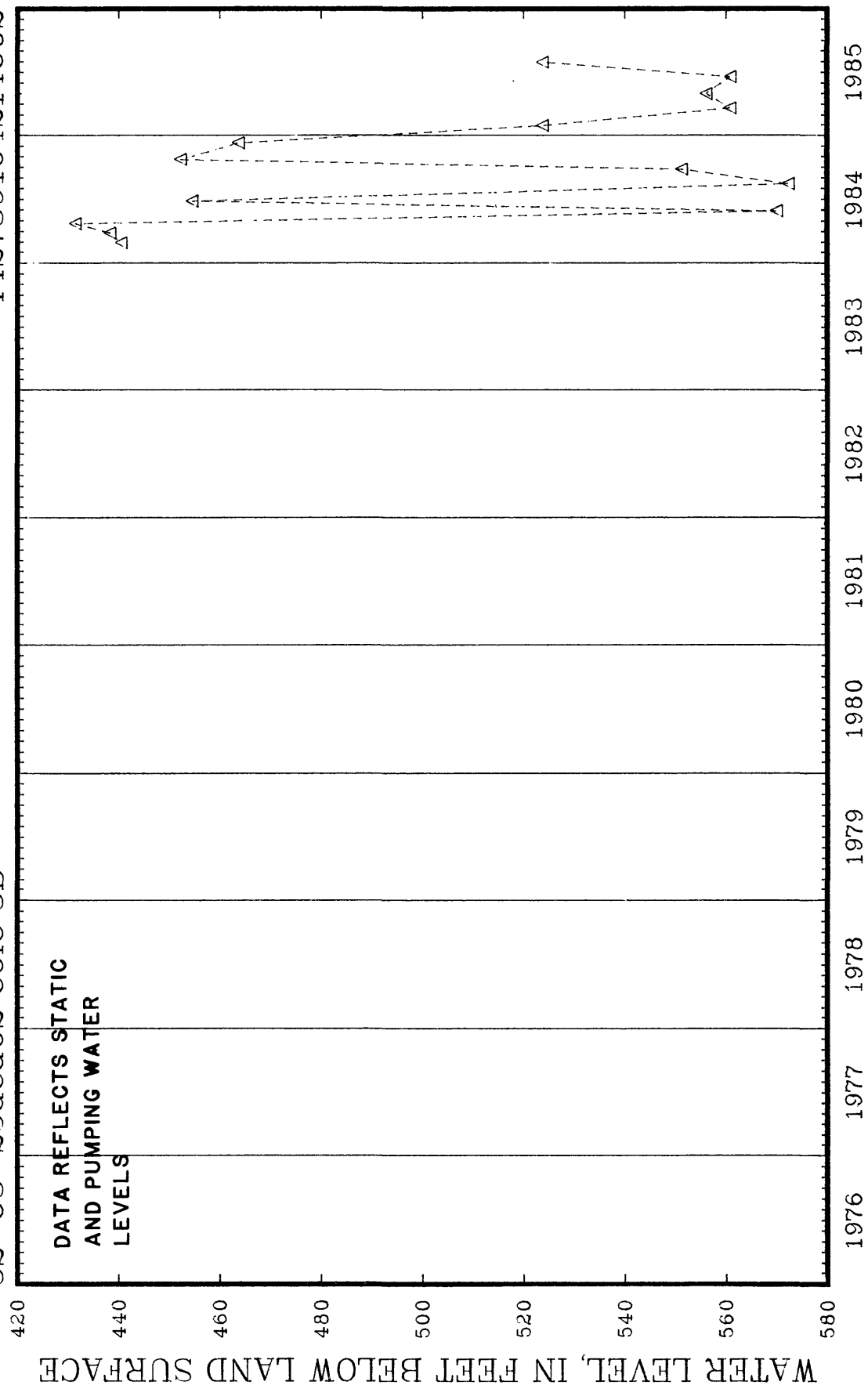
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CROOK COUNTY

52-63-25dcd02 Cole 3B

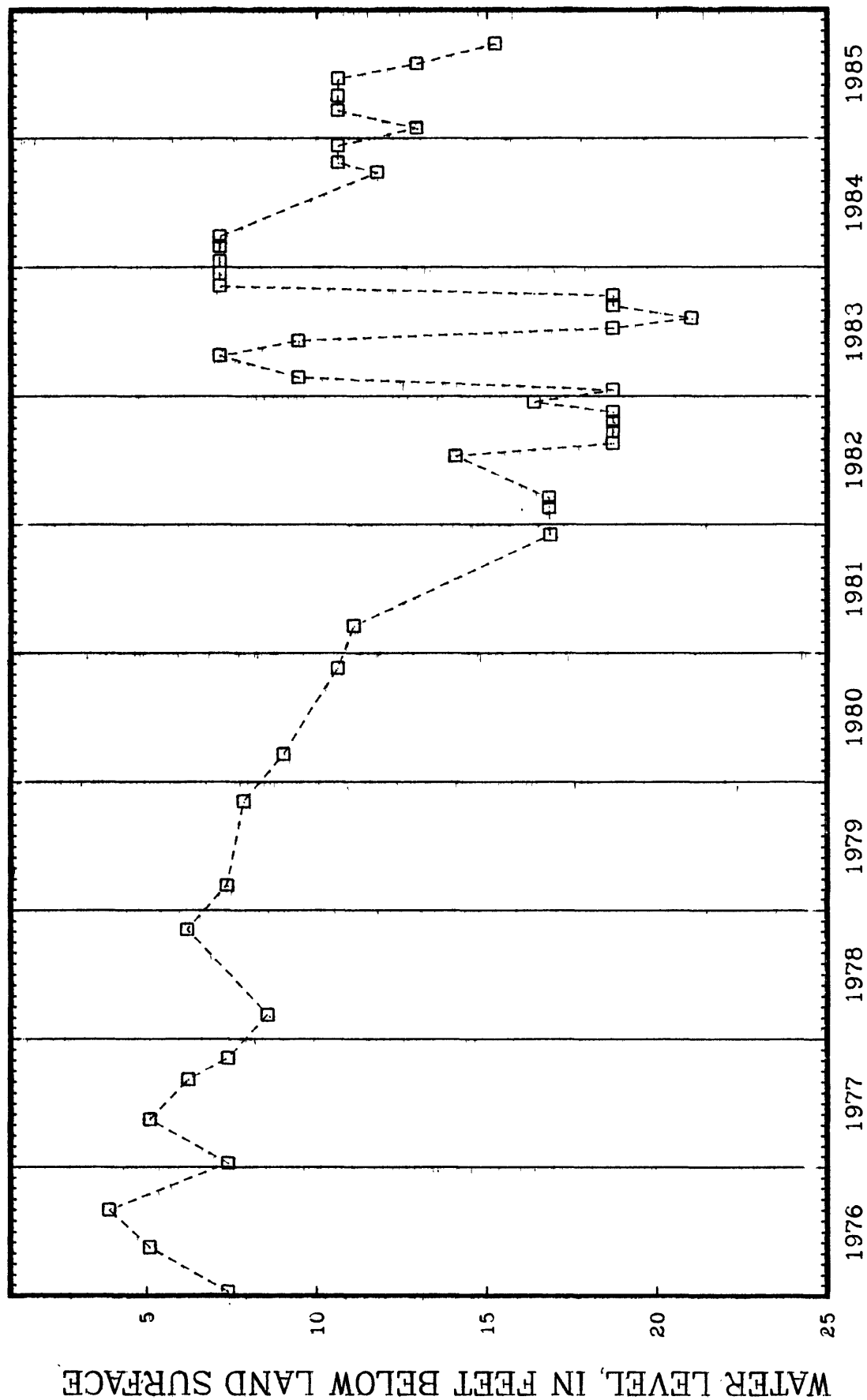
442739104214602



CROOK COUNTY

53-65-18bdd02 Park Serv

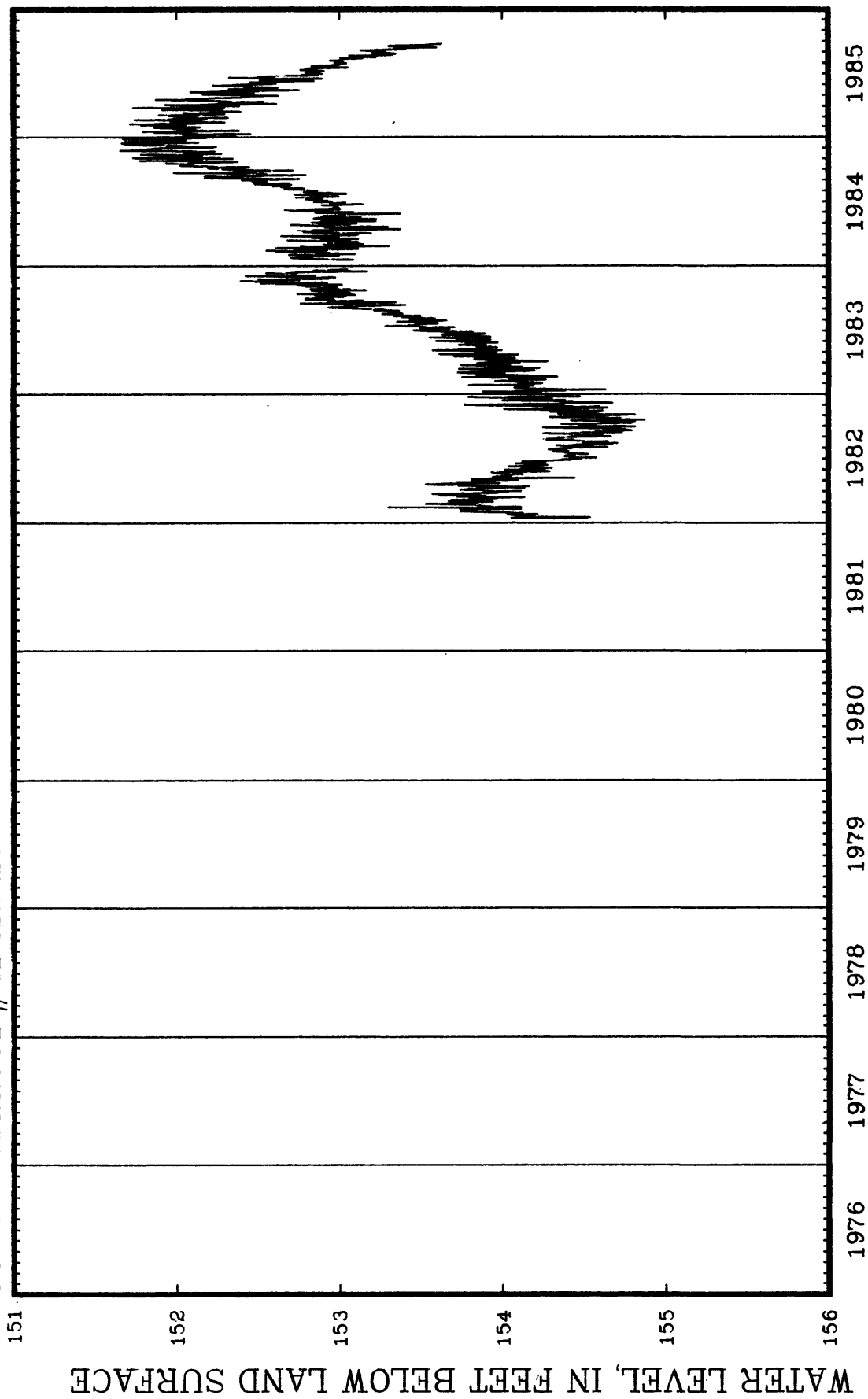
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CROOK COUNTY

56-67-28aab01 #41 Madiso

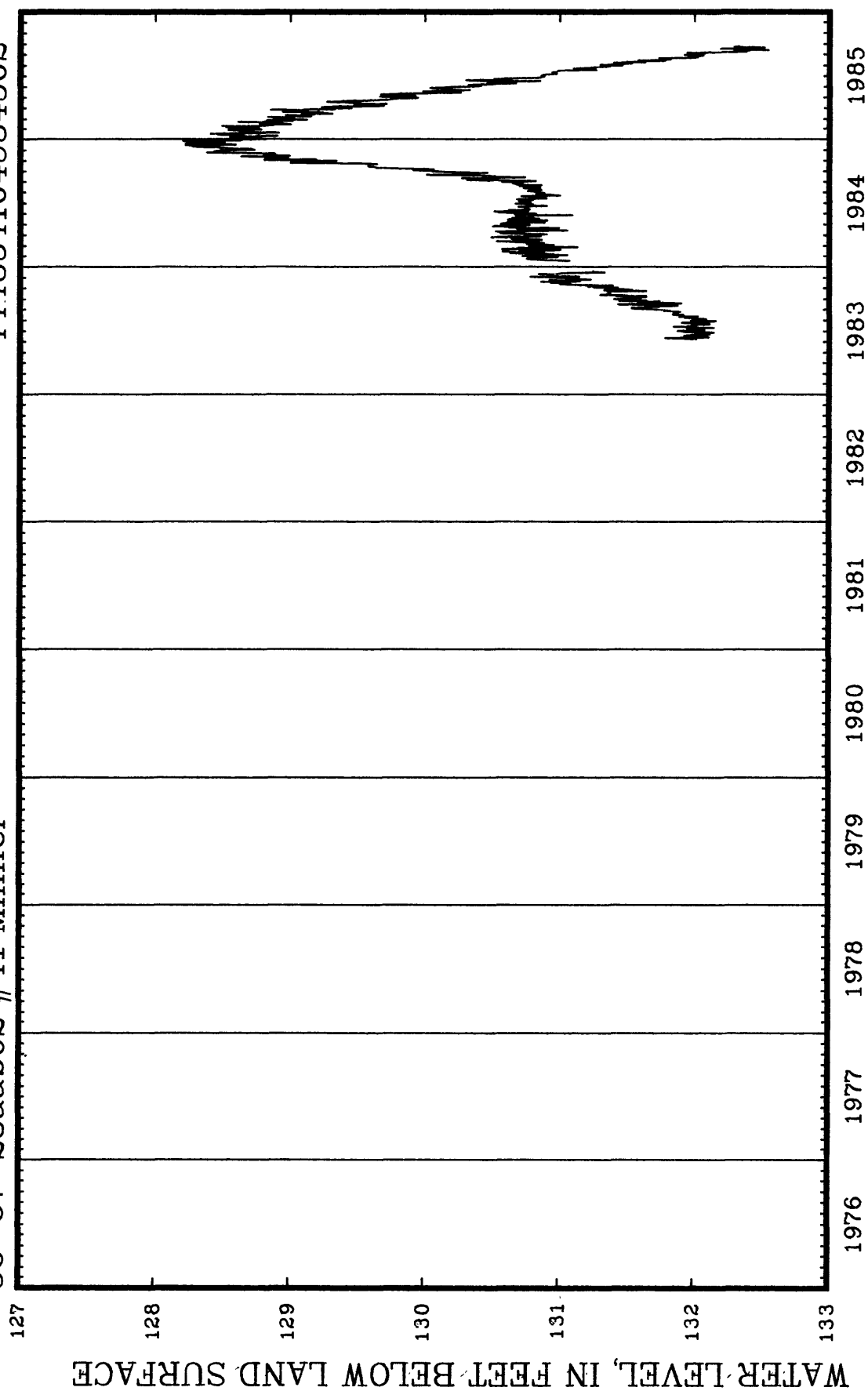
444854104534501



CROOK COUNTY

56-67-28aab02 #41 Minnel

444854104534502



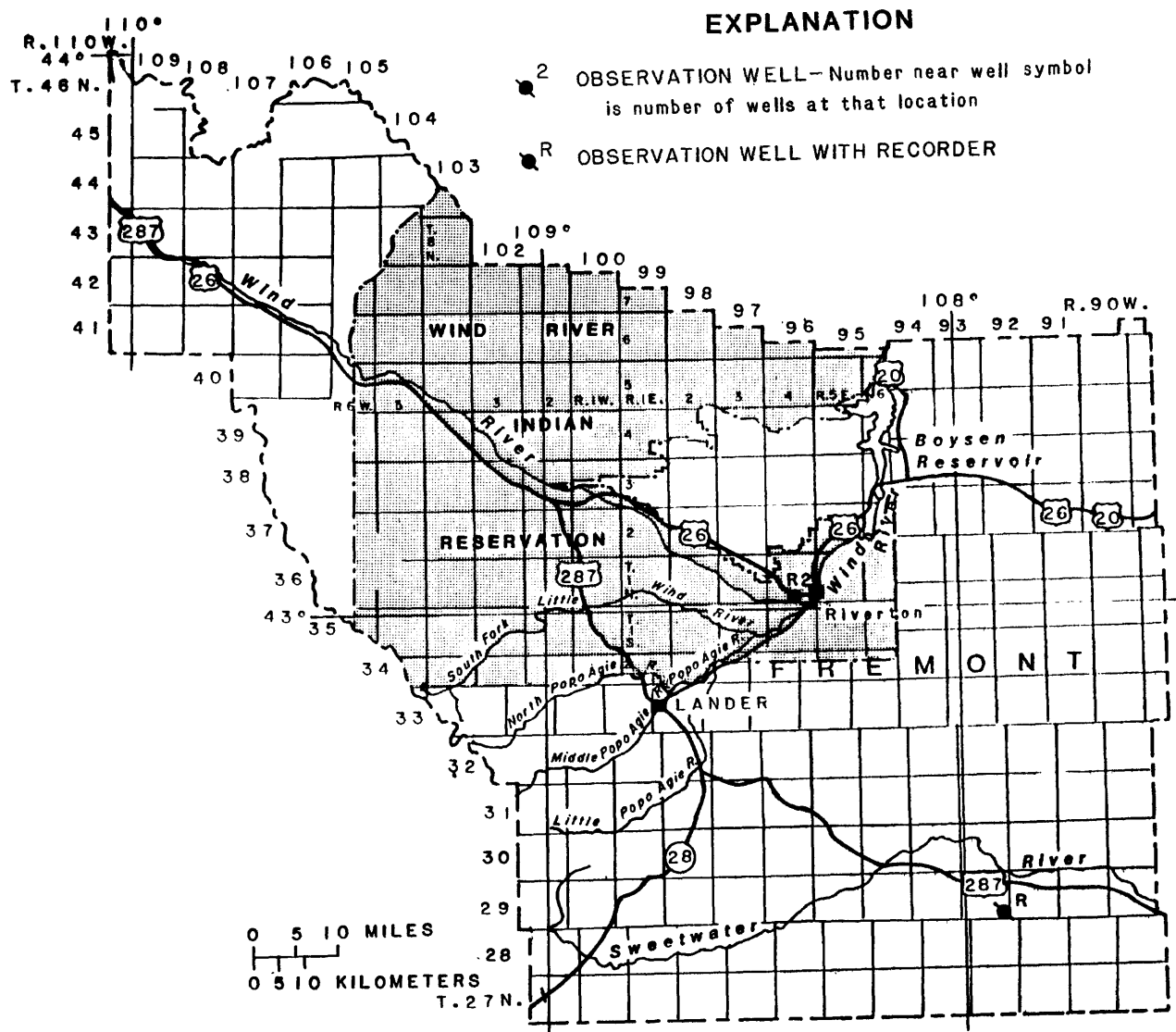


Figure 7.--Location of observation wells in Fremont County, Wyoming.

Records of observation wells in Fremont County, Wyoming, and highest and lowest recorded water levels, in feet below land surface.

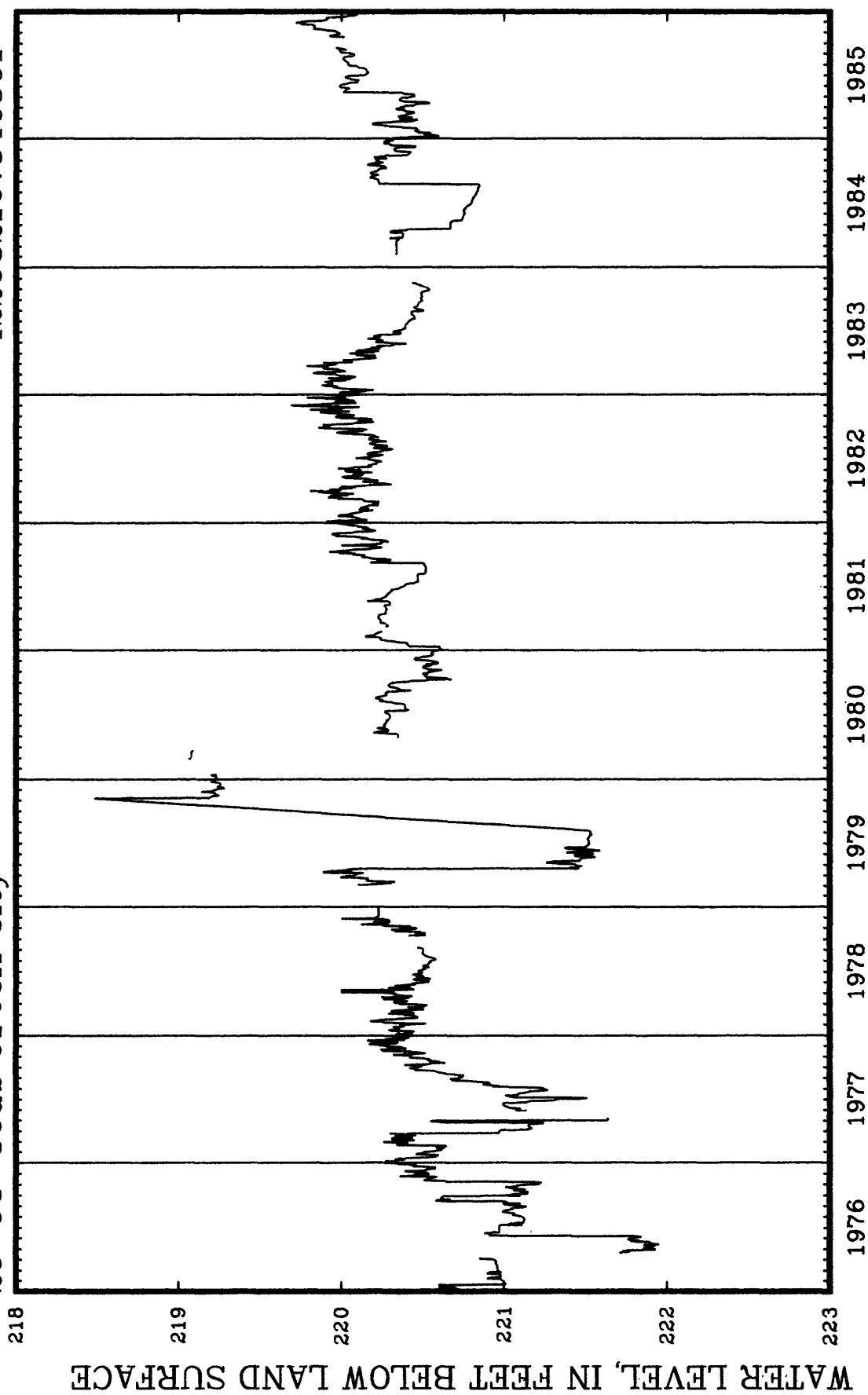
Well number	Well depth (ft)	Use of water	Geologic source	Records available (yr)	Water levels			
					Highest		Lowest	
					Level (ft)	Month-year	Level (ft)	Month-year
29-93-36db 01	1,000	U	122ARKR	1974-85	218.48	11-79	221.95	05-76
A1-04-28acc01	440	U	124WDRV	1983-85	¹ 119.58	09-85	¹ 132.44	07-85
A1-04-33ddb01	435	U	124WDRV	1951, 1961-85	29.51	03-51	152.43	09-62

¹ From hand-measured data

FREMONT COUNTY

29-93-36db 01 Jeff City

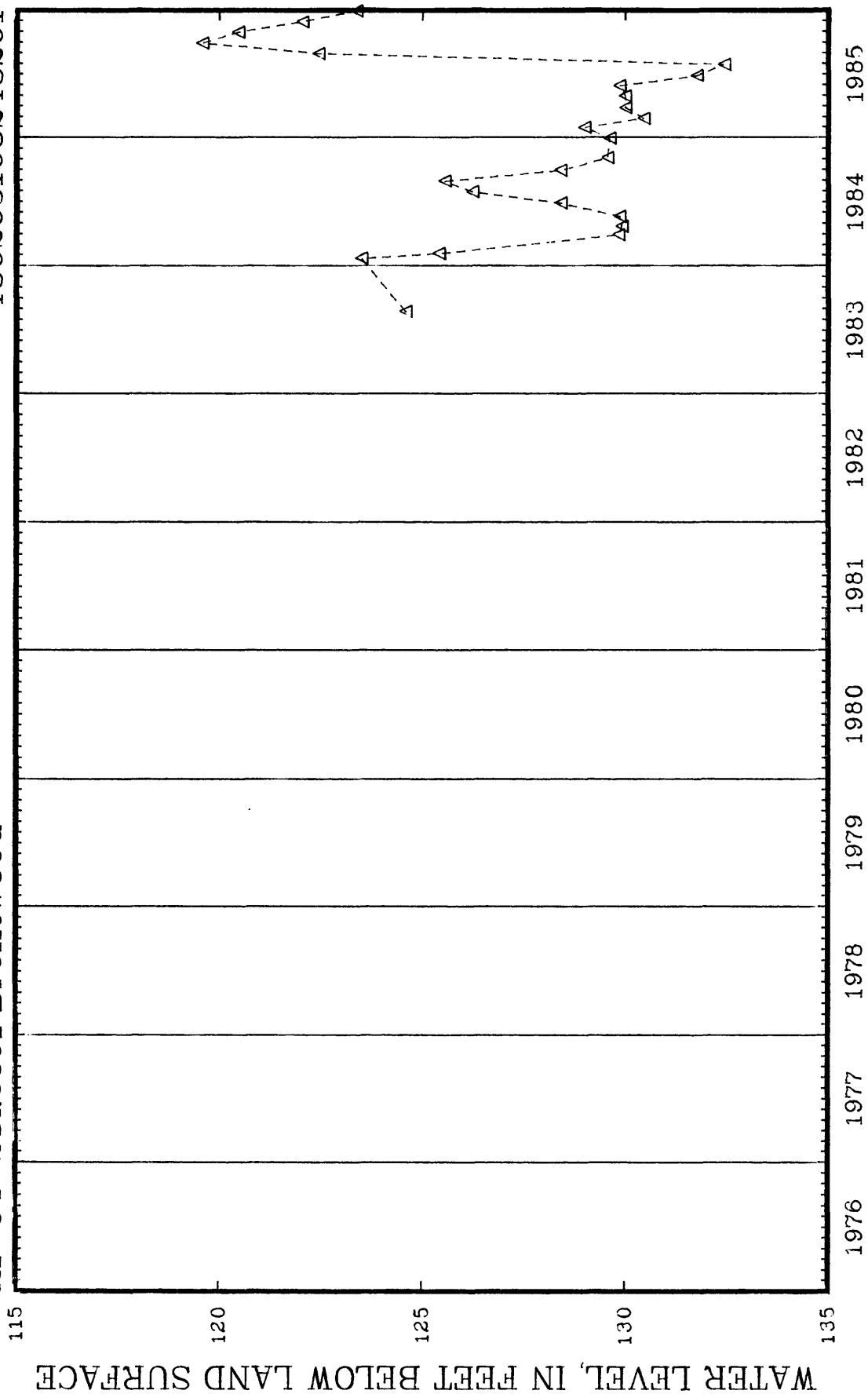
422632107540501



FREMONT COUNTY

A1-04-28acc01 Brentwood

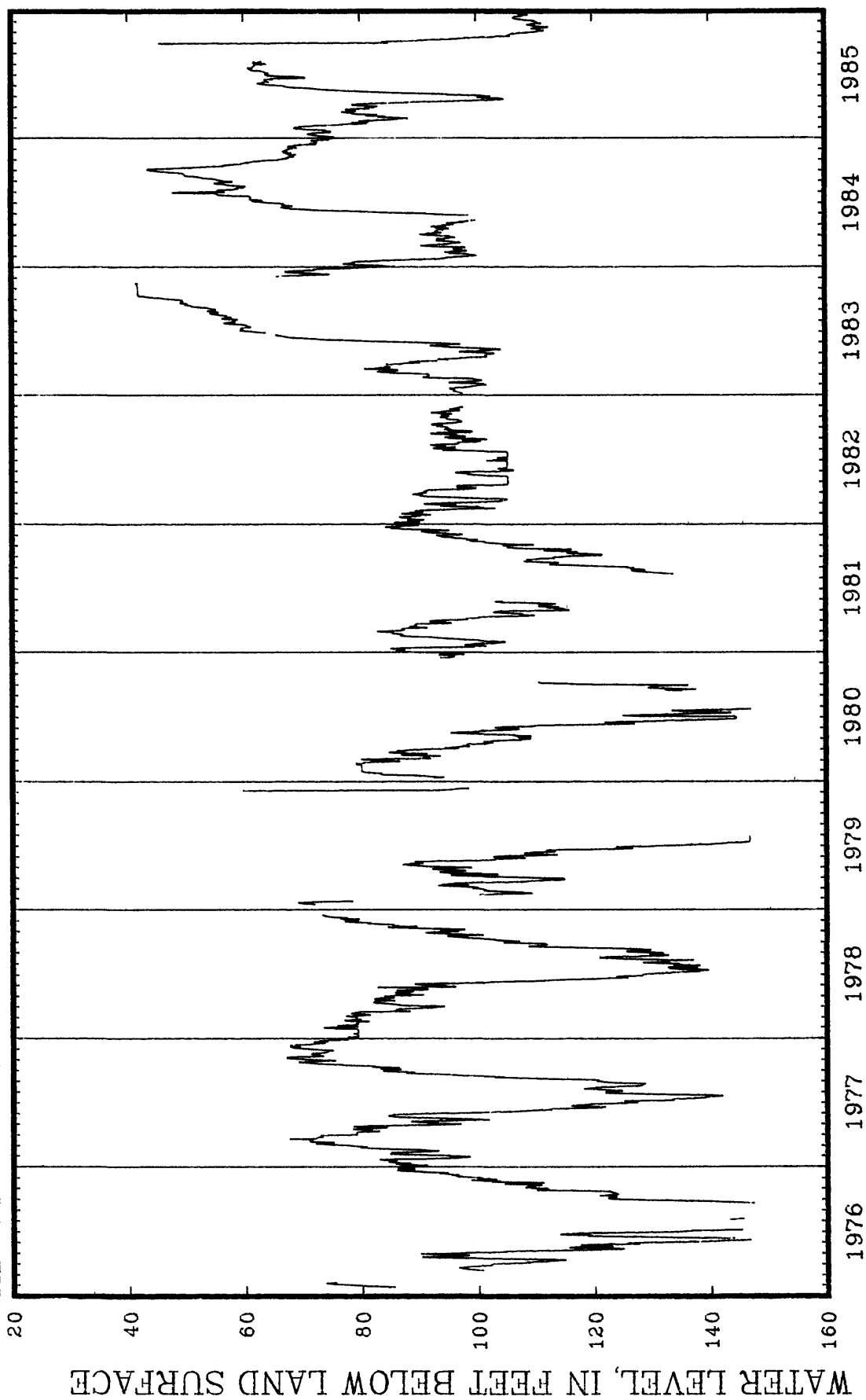
430205108243201



FREMONT COUNTY

A1-04-33ddb01 Teton Stud

430051108240901



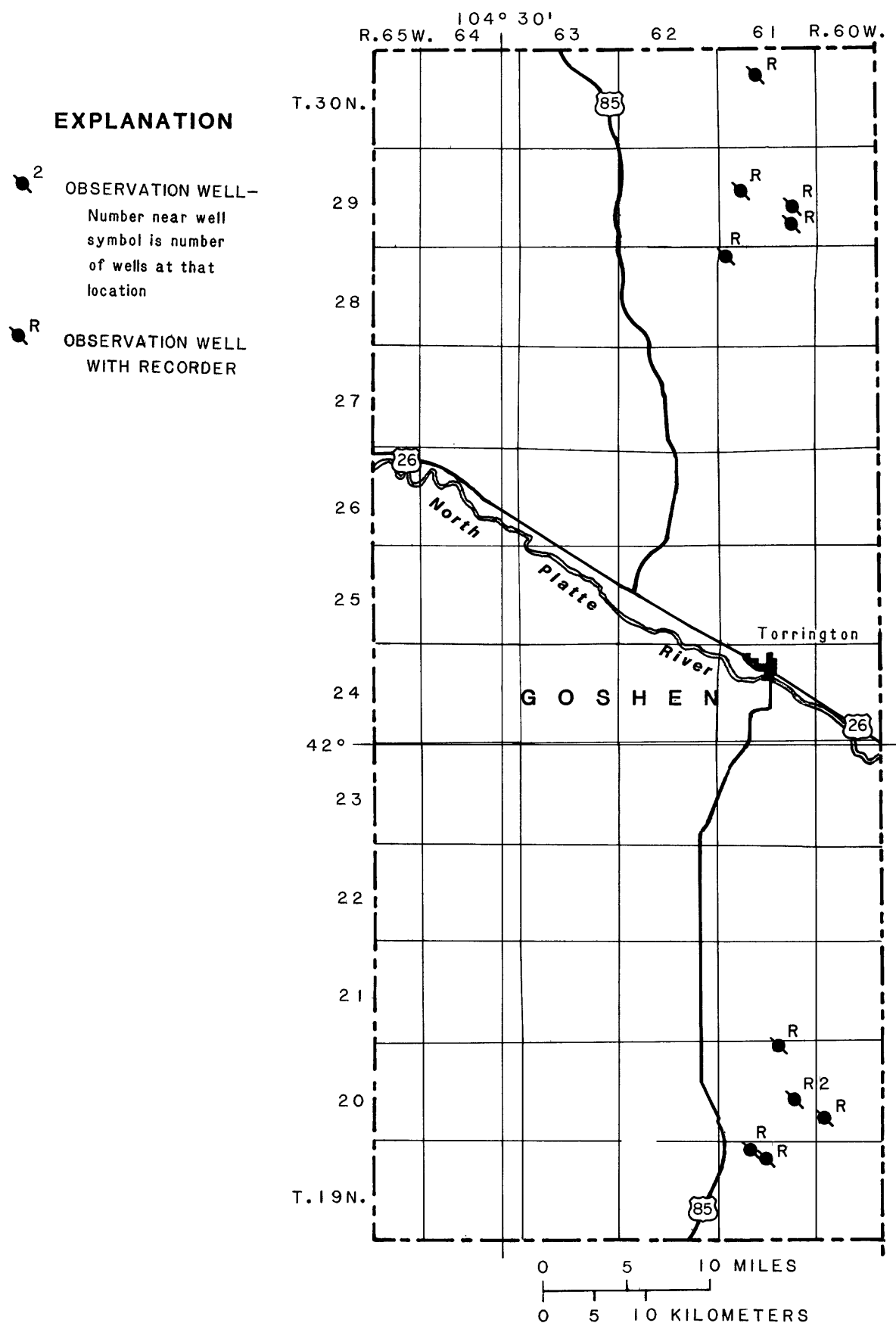


Figure 8.--Location of observation wells in Goshen County, Wyoming.

Records of observation wells in Goshen County, Wyoming, and highest and lowest recorded water levels, in feet below land surface.

Well number	Well depth (ft)	Use of water	Geologic source	Records available (yr)	Water levels			
					Highest Level (ft)	Highest Month-year	Lowest Level (ft)	Lowest Month-year
19-61-04abc01	50	U	111ALVM	1972-85	1.20	05-83	12.73	08-77
10aab01	200	U	123BRUL	1980-85	8.56	06-83	15.58	04-85
20-60-30bbb01	70	U	123BRUL	1978-85	31.40	06-83	161.25	07-78
20-61-03dad01	100	U	123WRVR	1980-85	16.85	06-83	24.83	02-85
23bdb02	70	U	123BRUL	1978-85	2.10	04-84	126.74	09-78
23ccc01	82	U	111ALVM	1972-85	9.97	06-84	132.59	09-78
28-61-06aba01	220	U	122ARKR	1979-85	127.23	05-79	132.41	12-85
29-61-17aad01	220	U	122ARKR	1980-85	124.50	01-81	126.88	12-85
23abb01	300	U	122ARKR	1979-85	210.62	06-80	211.82	12-85
26cbb01	200	U	122ARKR	1980-85	131.89	05-81	135.10	12-85
30-61-09bbb01	220	U	122ARKR	1981-85	80.61	05-81	83.38	11-85

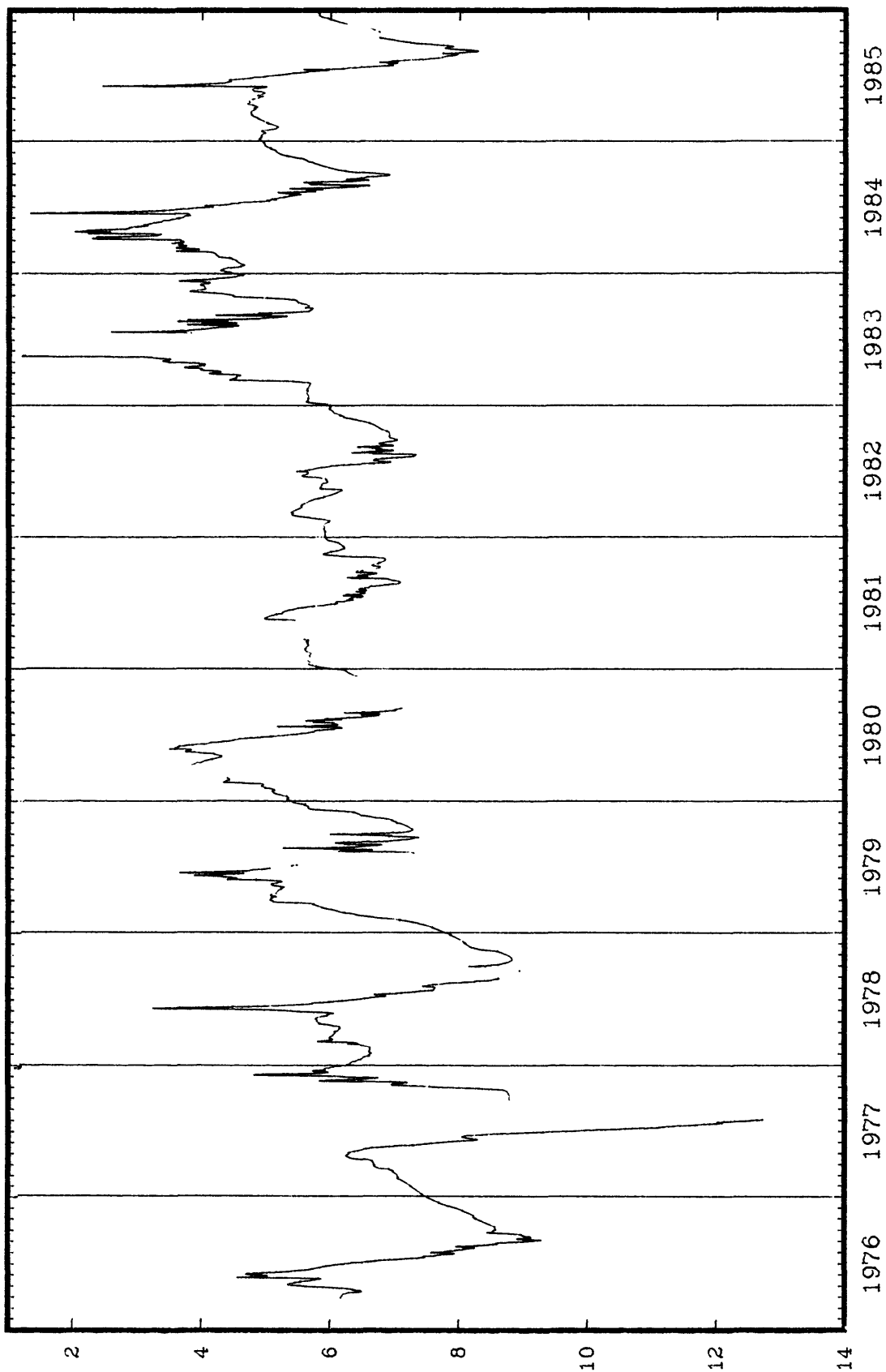
¹ From hand-measured data

GOSHEN COUNTY

19--61--04abc01 Sanders

413852104115801

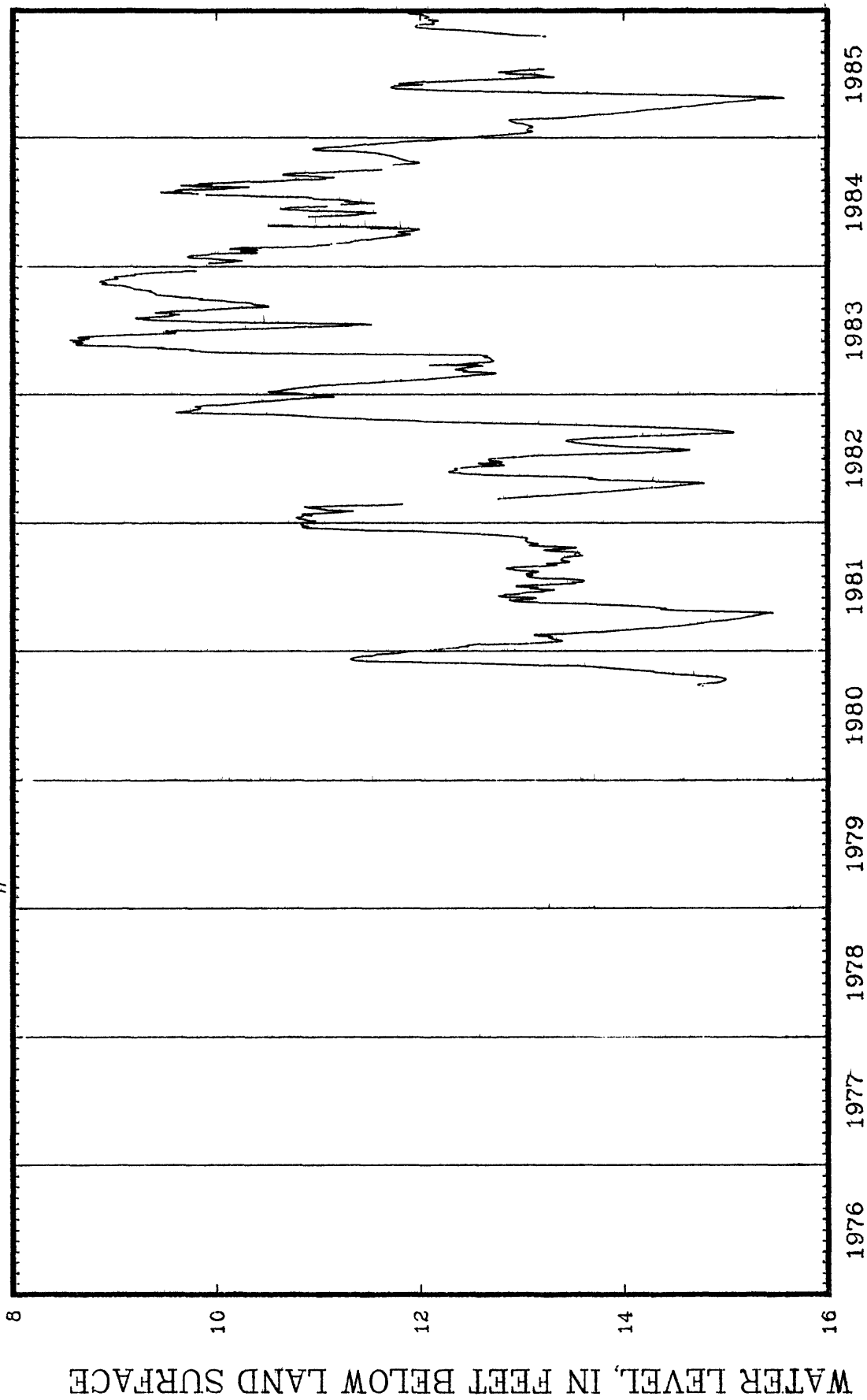
WATER LEVEL, IN FEET BELOW LAND SURFACE



GOSHEN COUNTY

19-61-10aab01 La Gra #1

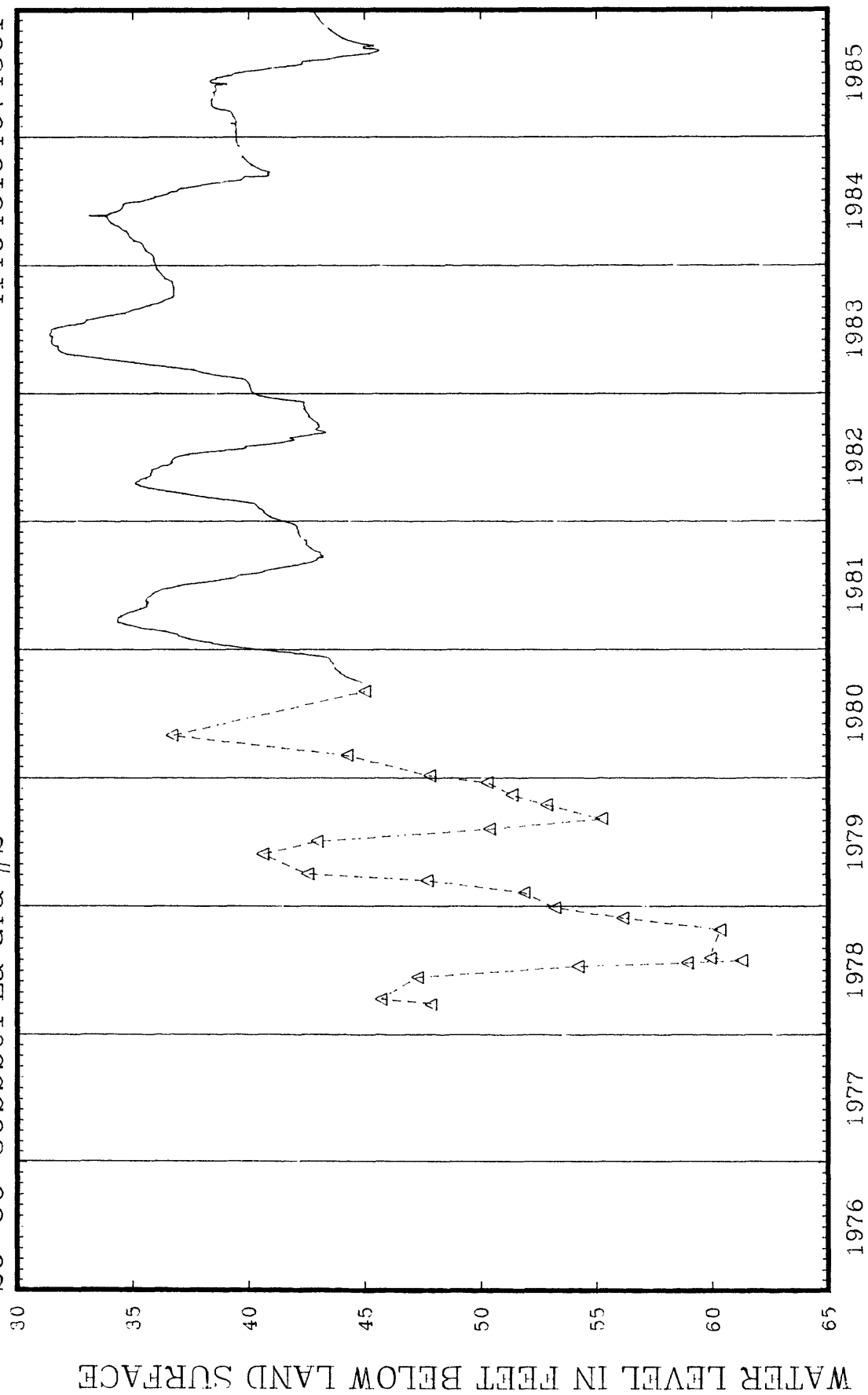
413810104102301



GOSHEN COUNTY

20-60-30bbb01 La Gra #2

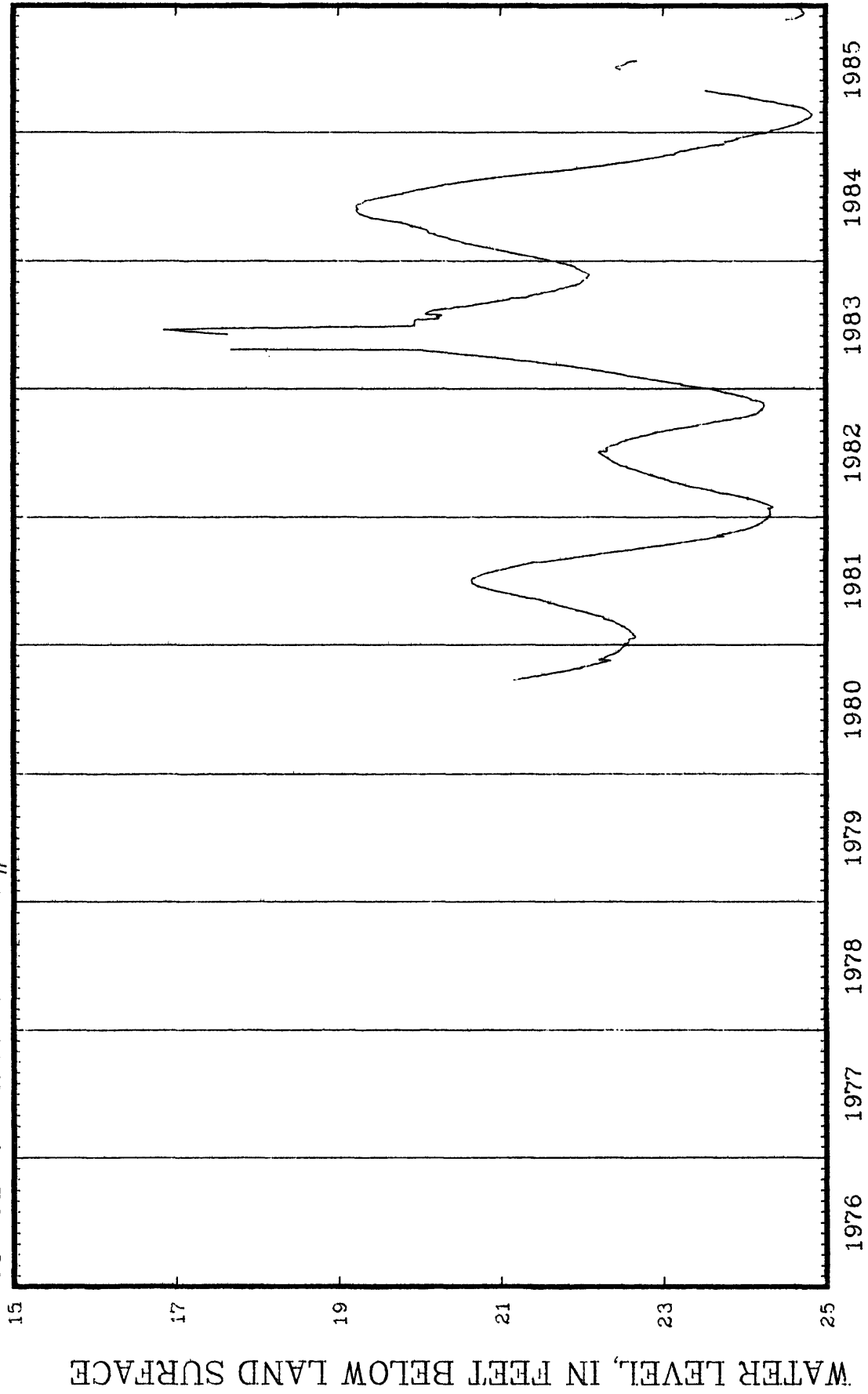
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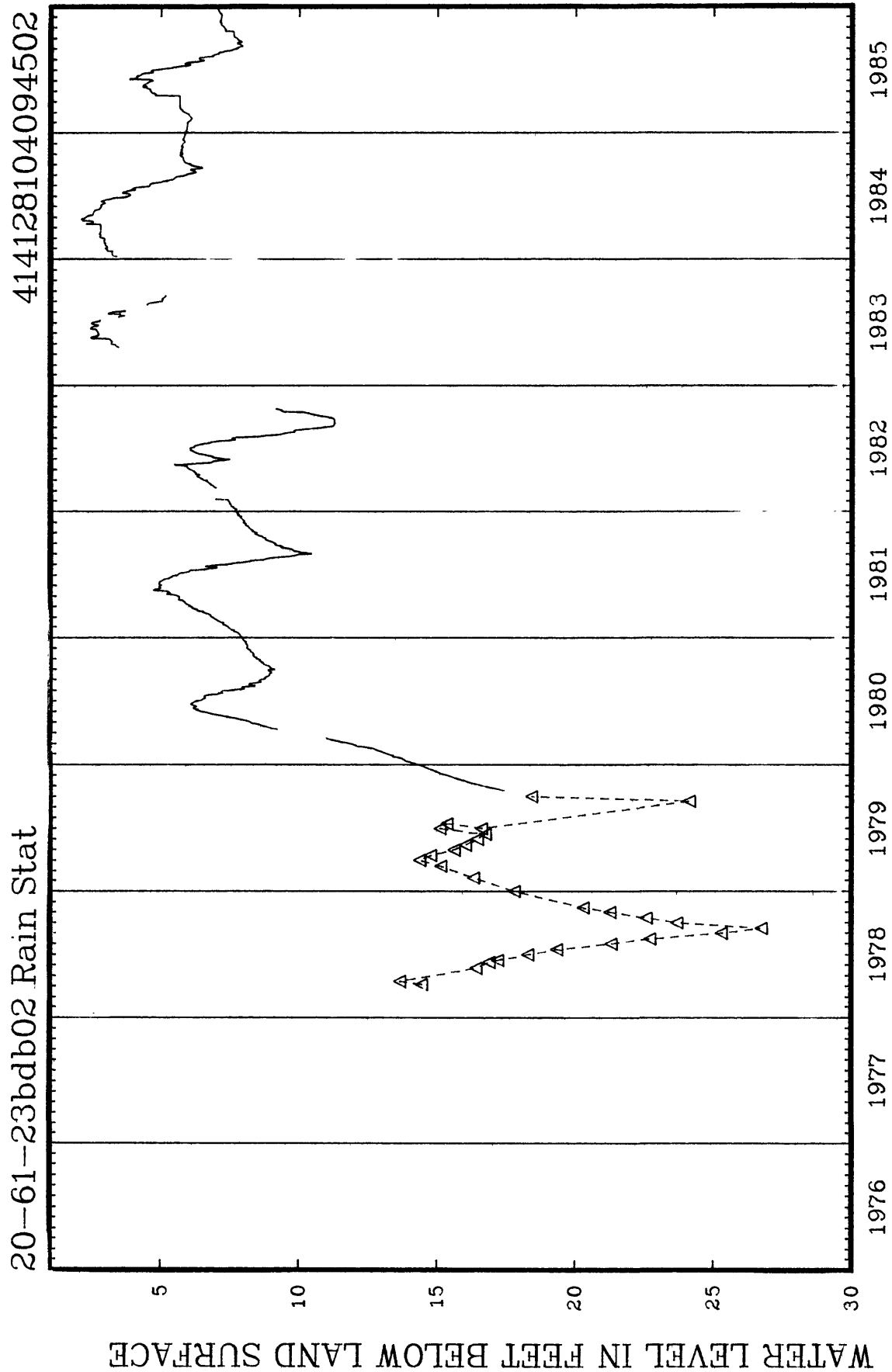
GOSHEN COUNTY

20-61-03dad01 La Gra #3

414348104101301



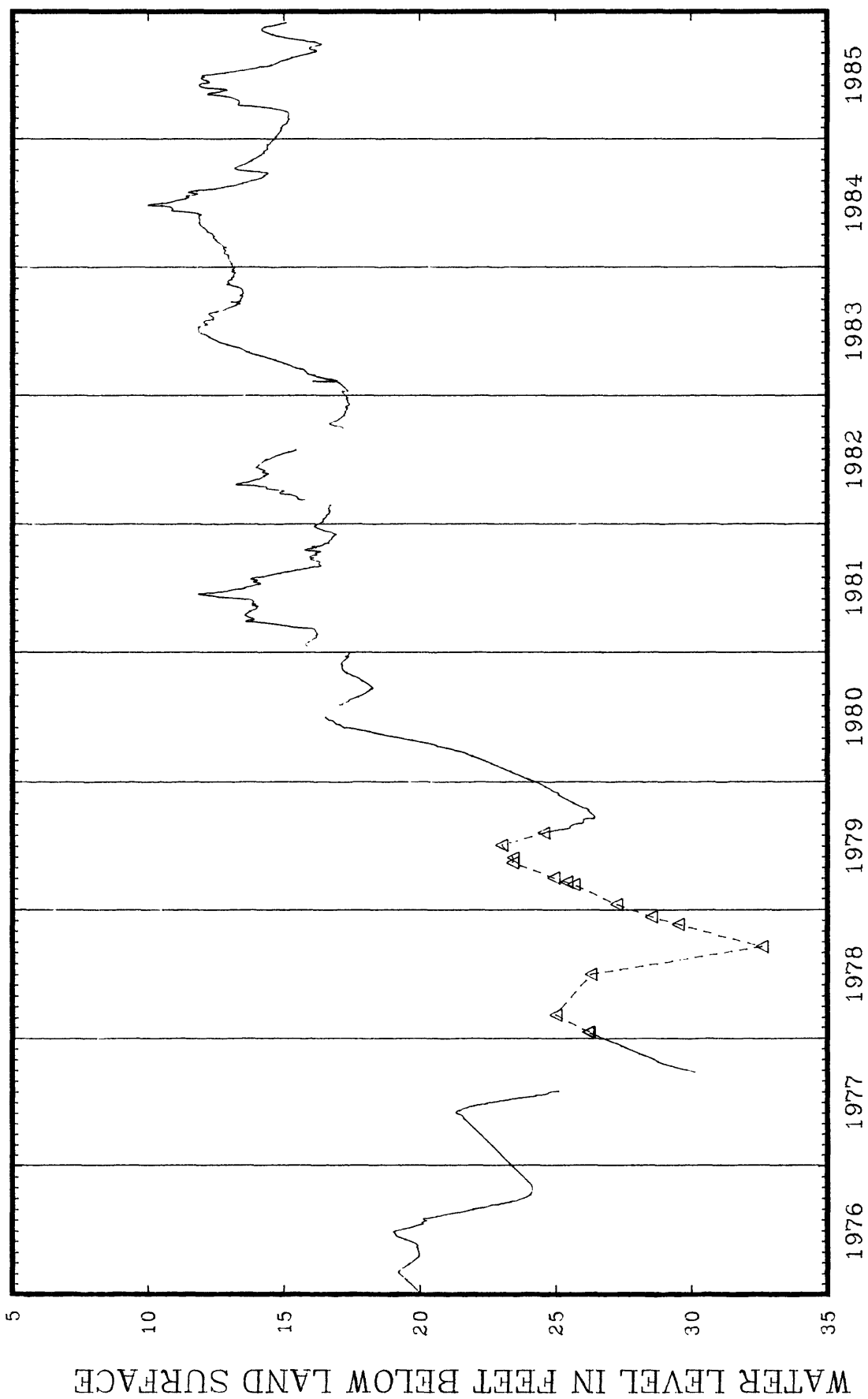
GOSHEN COUNTY



GOSHEN COUNTY

20-61-23ccc01 Meier

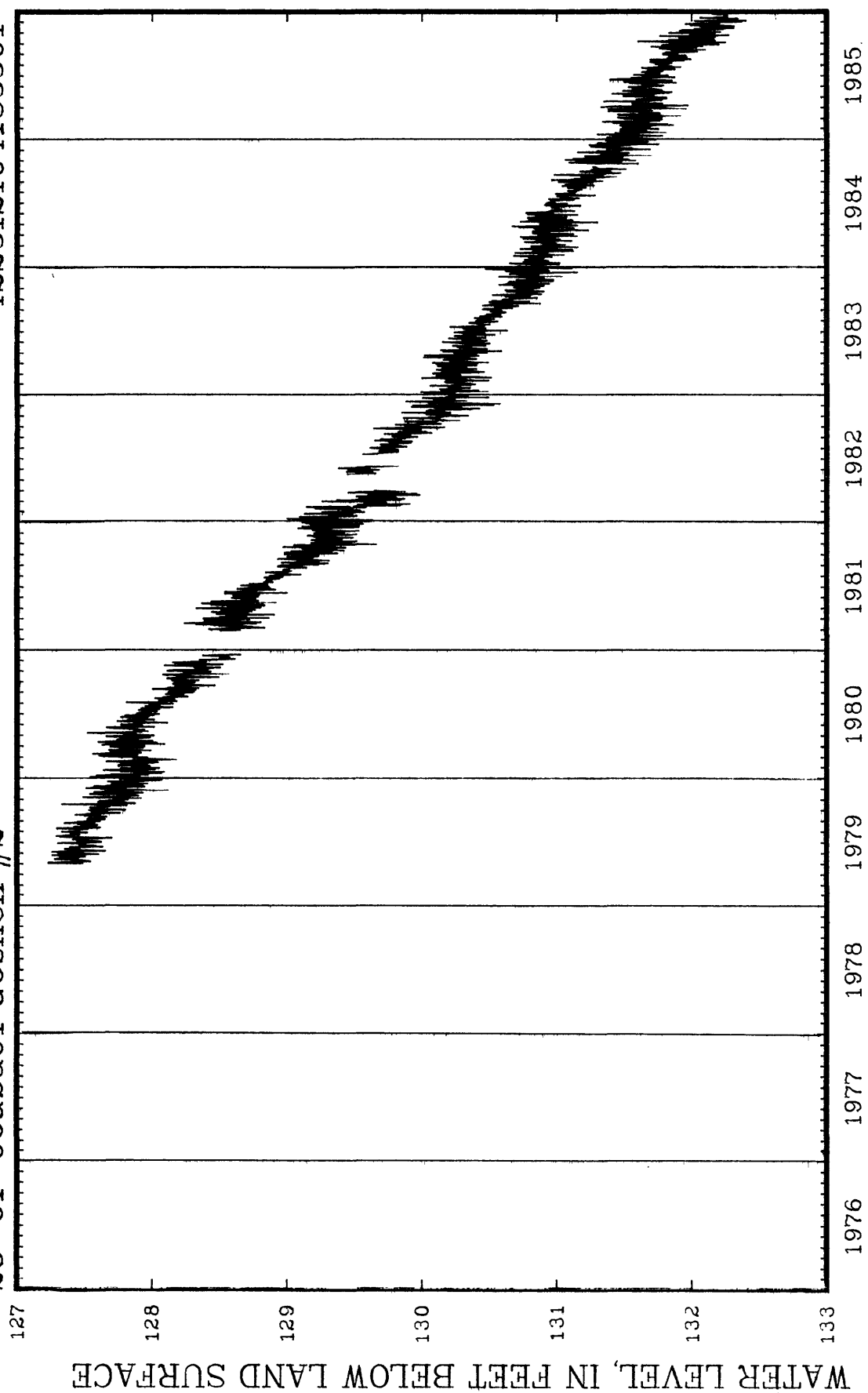
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GOSHEN COUNTY

28-61-06aba01 Goshen #2

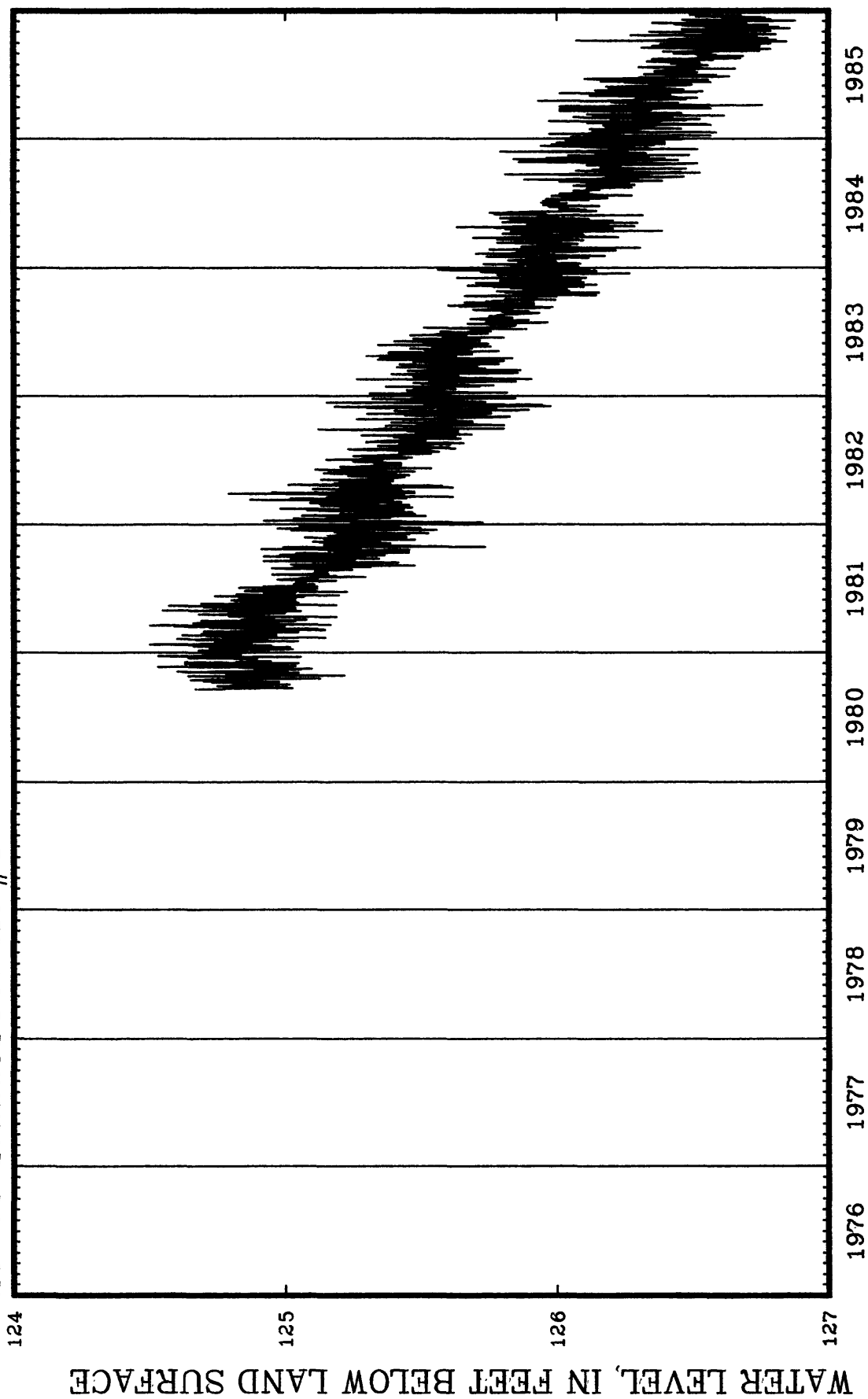
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GOSHEN COUNTY

29-61-17aad01 Prairie #4

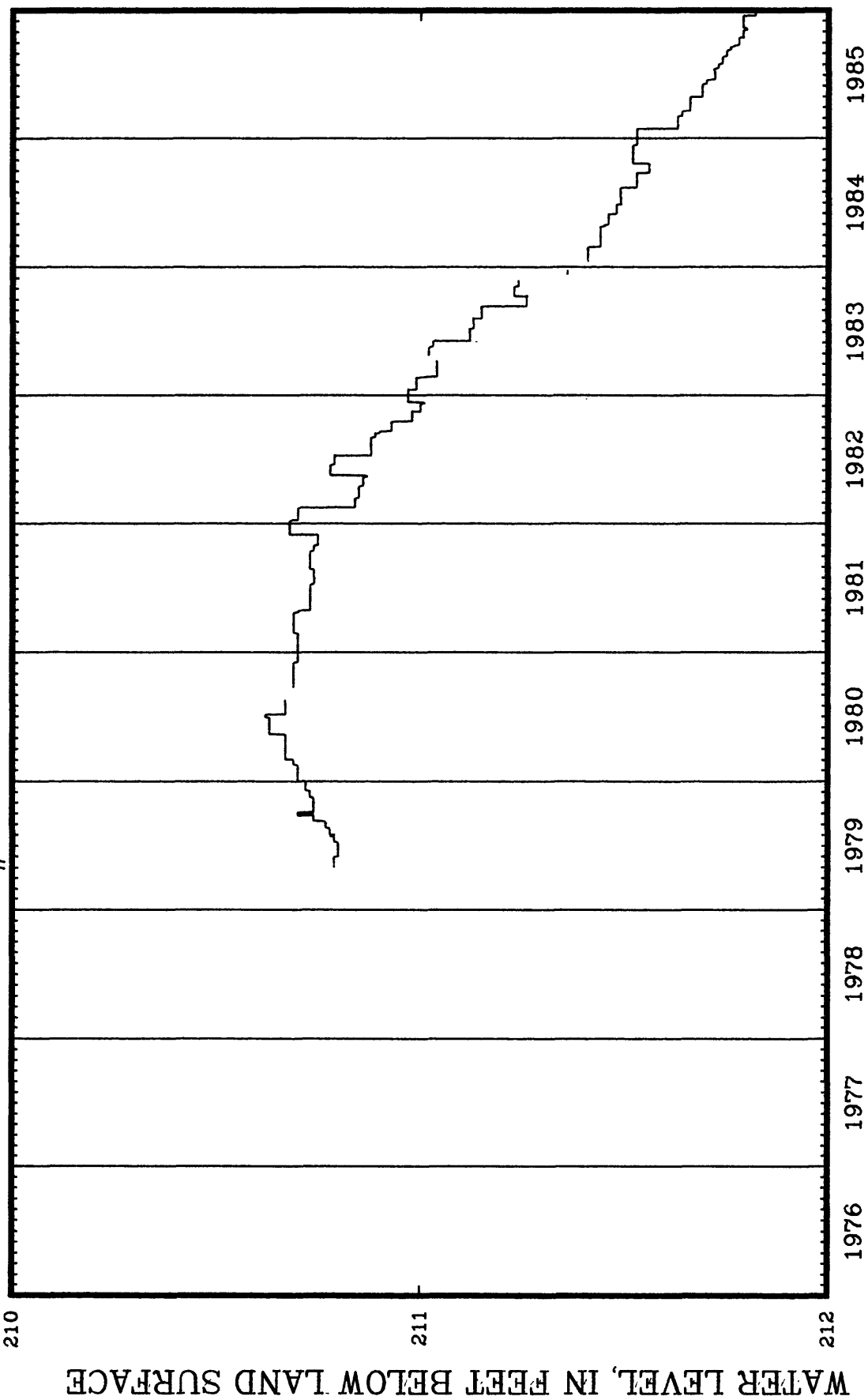
422928104121401



GOSHEN COUNTY

29-61-23abb01 Goshen #1

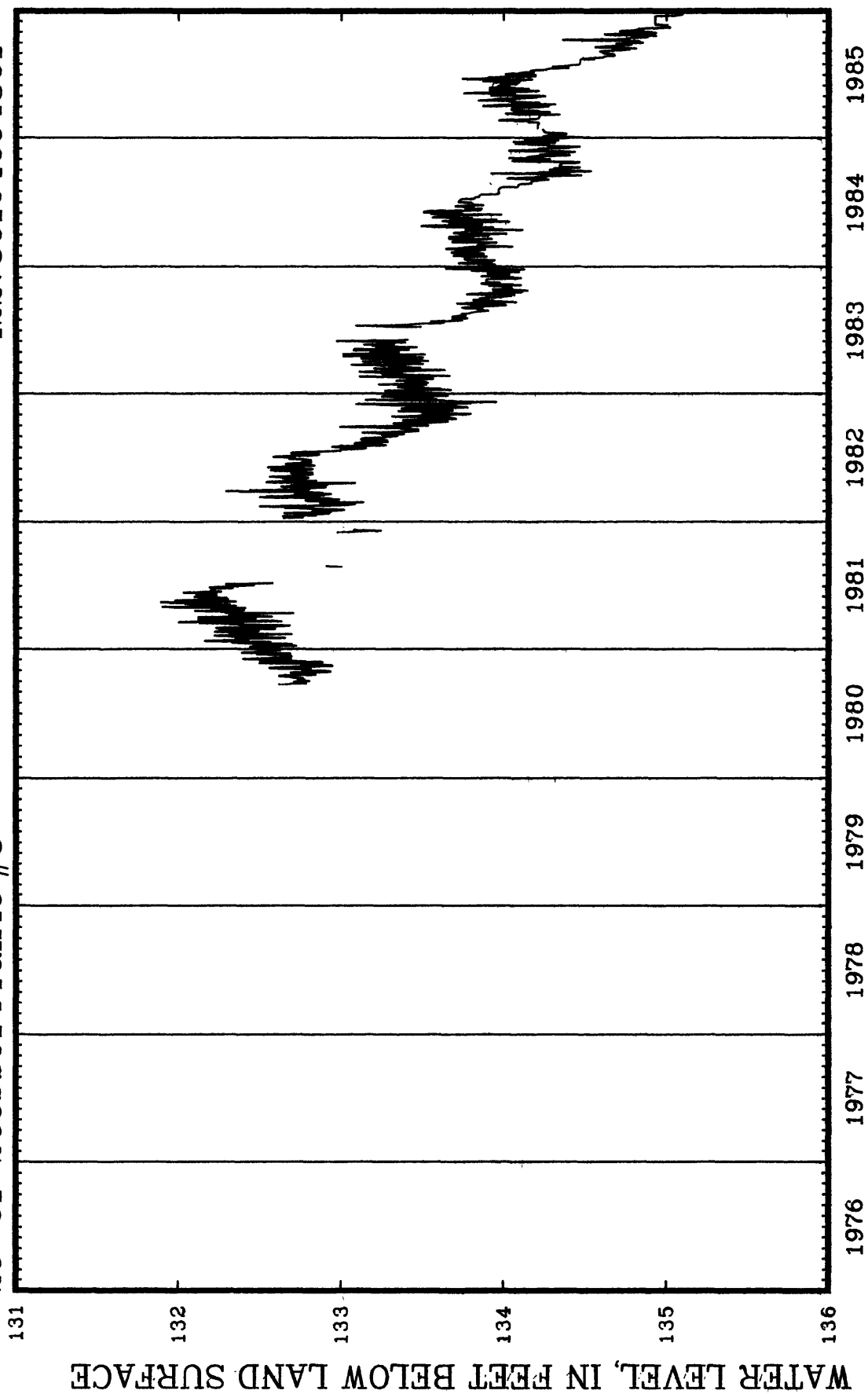
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GOSHEN COUNTY

29-61-26cbb01 Prairie #3

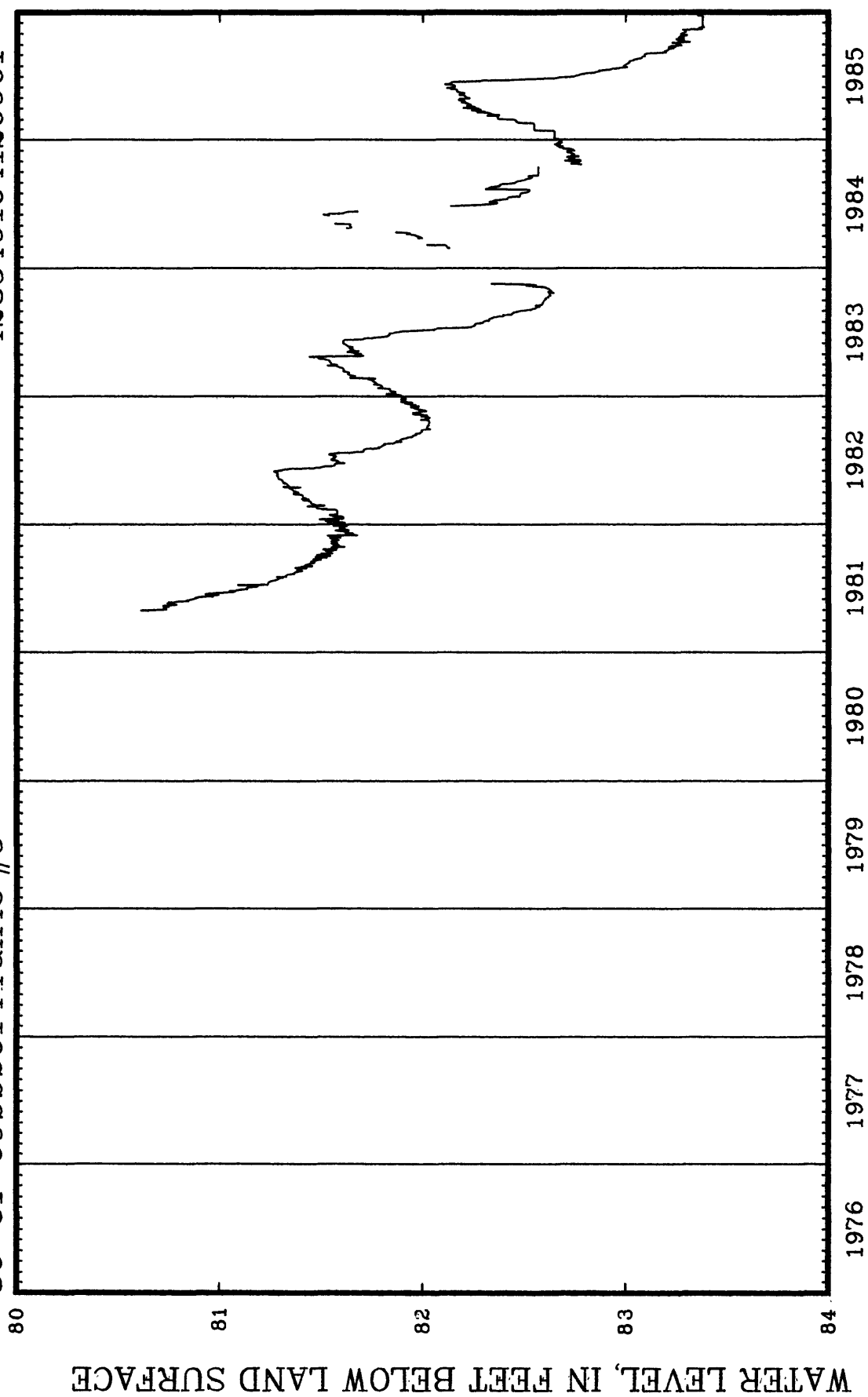
422730104094801



GOSHEN COUNTY

30-61-09bbb01 Prairie #5

423549104120901



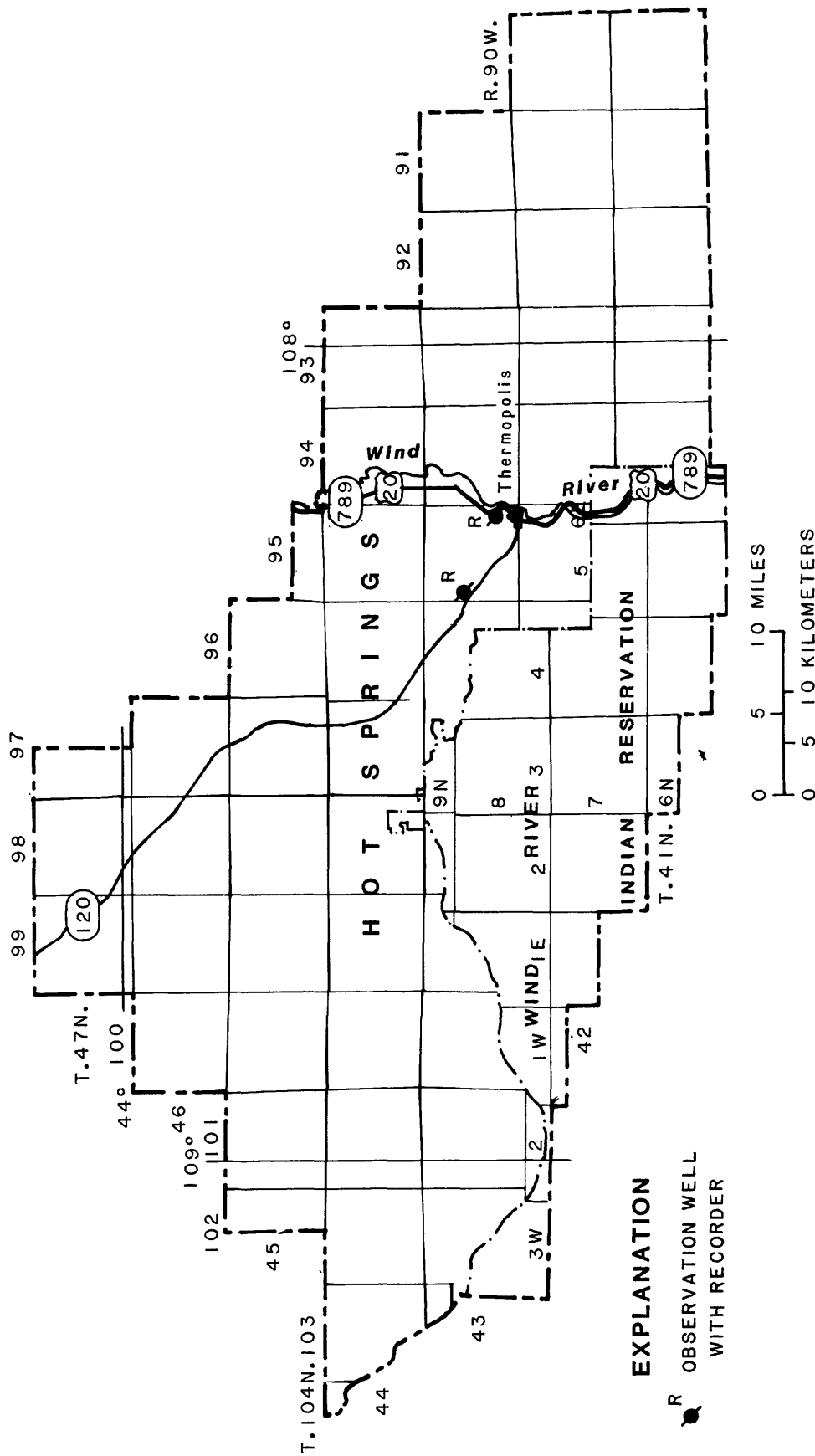


Figure 9.--Location of observation wells in Hot Springs County, Wyoming.

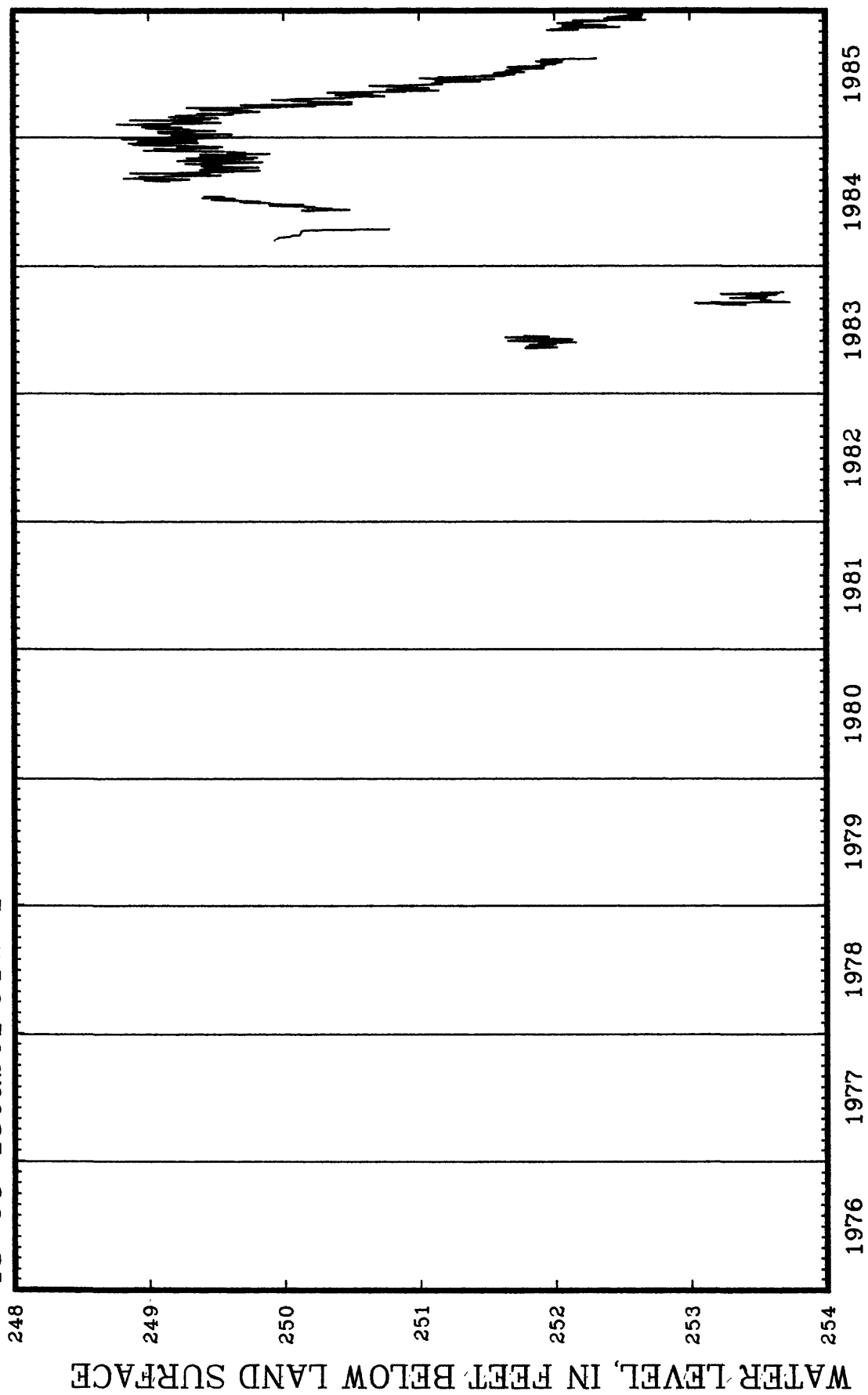
Records of observation wells in Hot Springs County, Wyoming, and highest and lowest recorded water levels, in feet below land surface.

Well number	Well depth (ft)	Use of water	Geologic source	Records available (yr)	Water levels			
					Highest		Lowest	
					Level (ft)	Month-year	Level (ft)	Month-year
43-95-18cab01	354	U	317TSLP	1983-85	248.76	02-85	253.74	09-83
43-95-25cdd01	228	U	311PRKC	1983-85	112.65	02-85	116.11	09-85

HOT SPRINGS COUNTY

43-95-18cab01 UTW-1

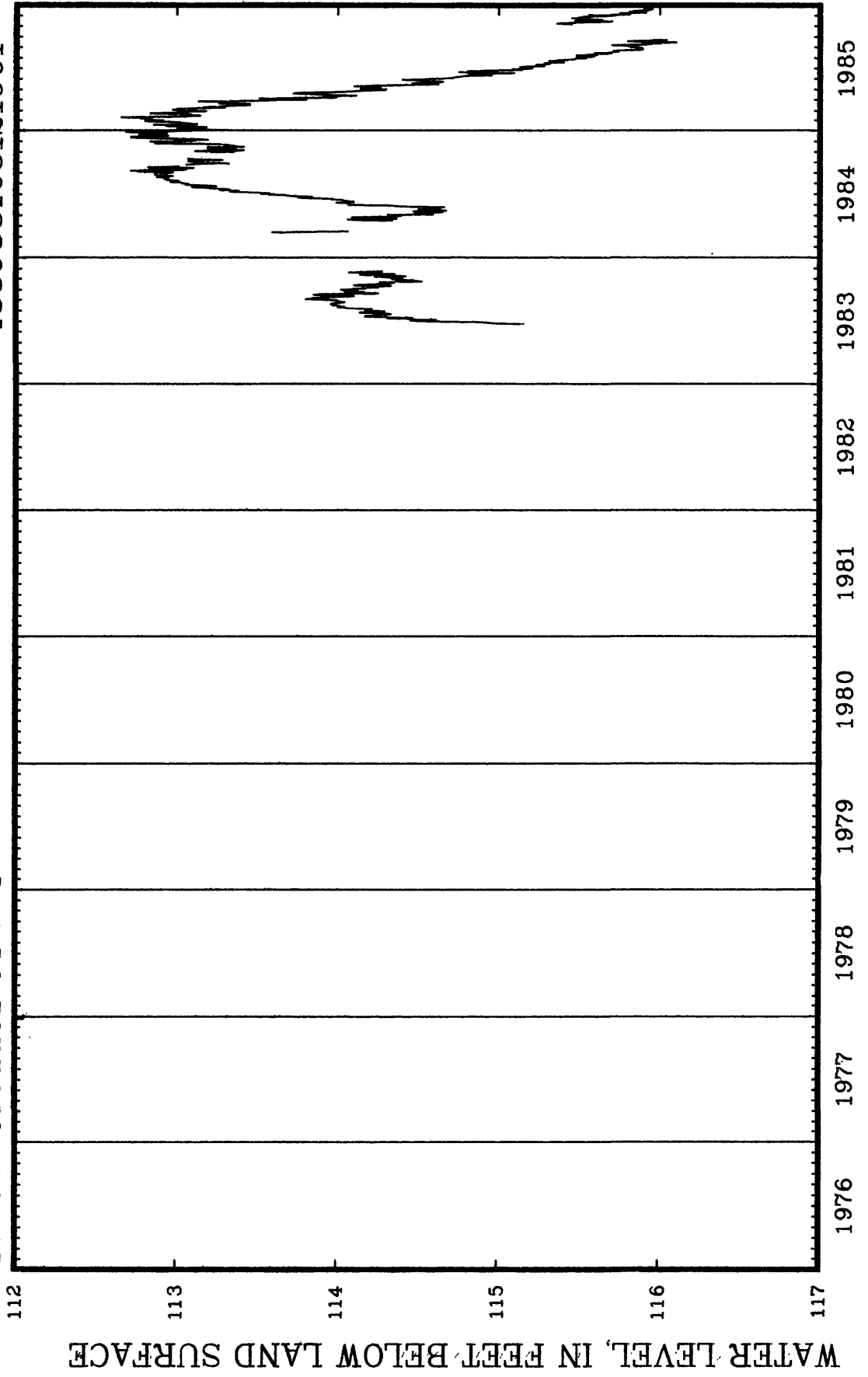
434136108183301



HOT SPRINGS COUNTY

43-95-25cdd01 UTW-3

433933108121901



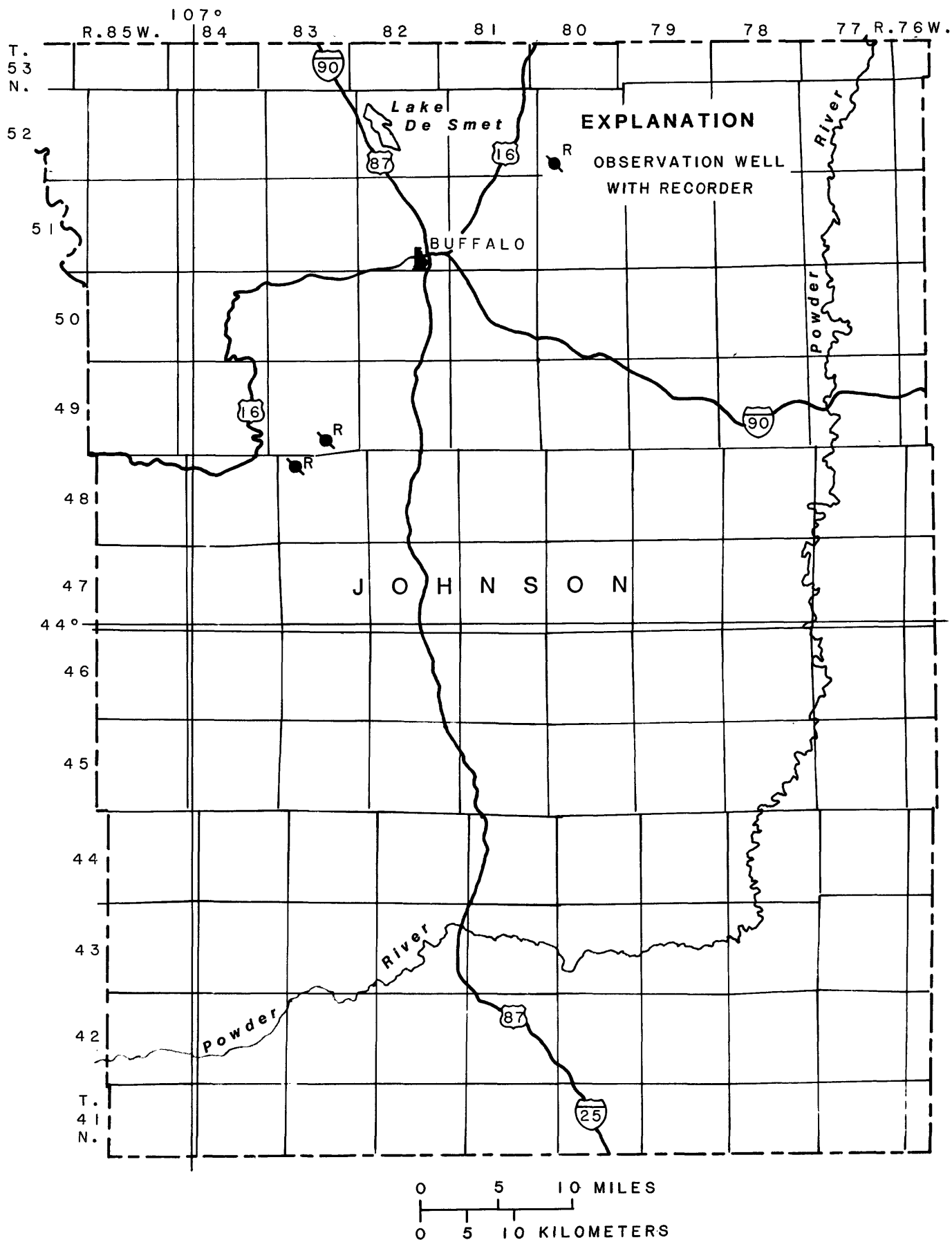


Figure 10.--Location of observation wells in Johnson County, Wyoming.

Records of observation wells in Johnson County, Wyoming, and highest and lowest recorded water levels, in feet below land surface.

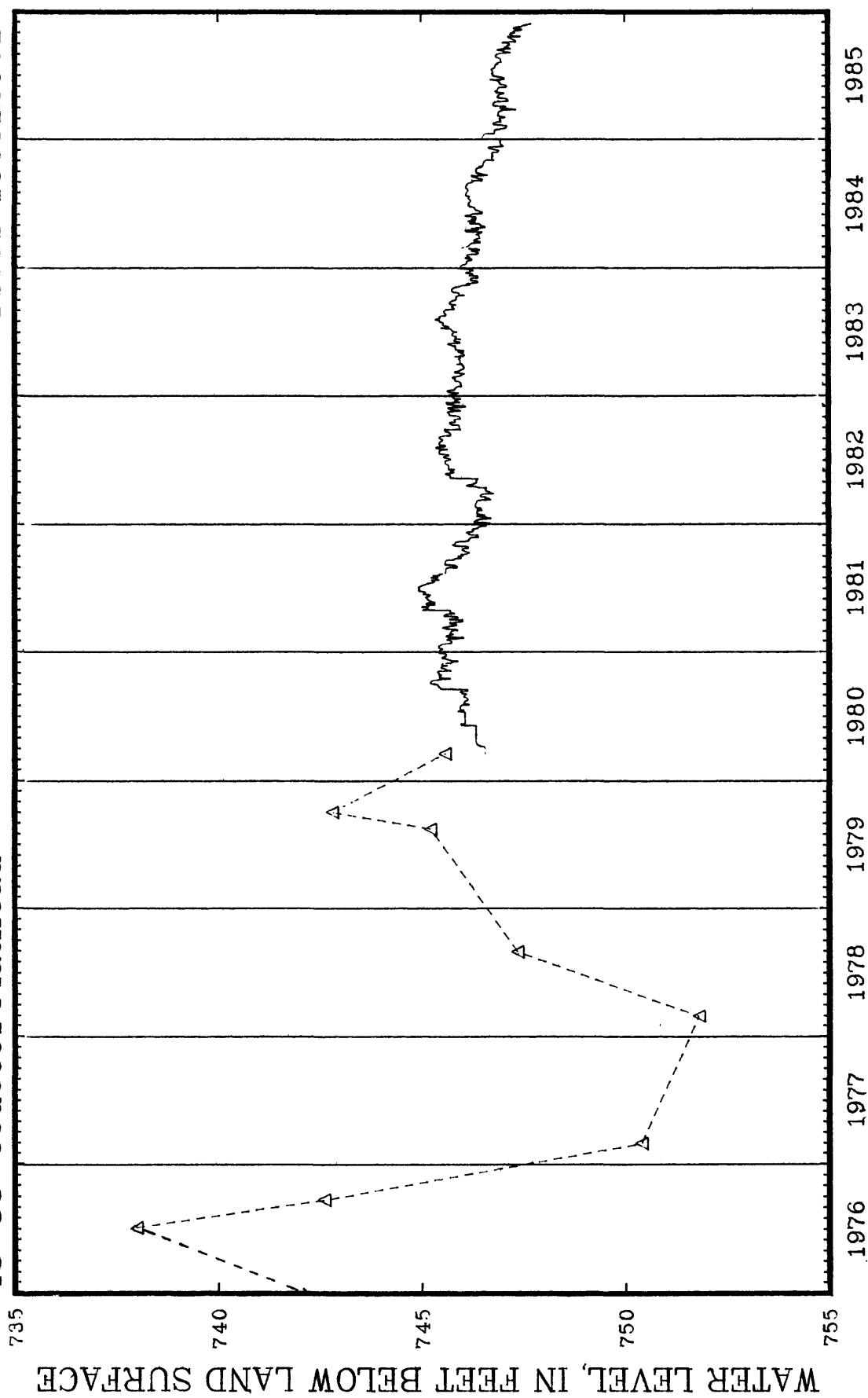
Well number	Well depth (ft)	Use of water	Geologic source	Records available (yr)	Water levels			
					Highest Level (ft)	Highest Month-year	Lowest Level (ft)	Lowest Month-year
48-83-05dcc01	1,115	U	374FLTD	1974-85	1738.00	07-76	1751.80	03-78
49-83-27dba02	1,507	U	331MDSN	1974-85	5.76	05-78	19.23	01-77

¹ From hand-measured data

JOHNSON COUNTY

48-83-05dcc01 Flathead

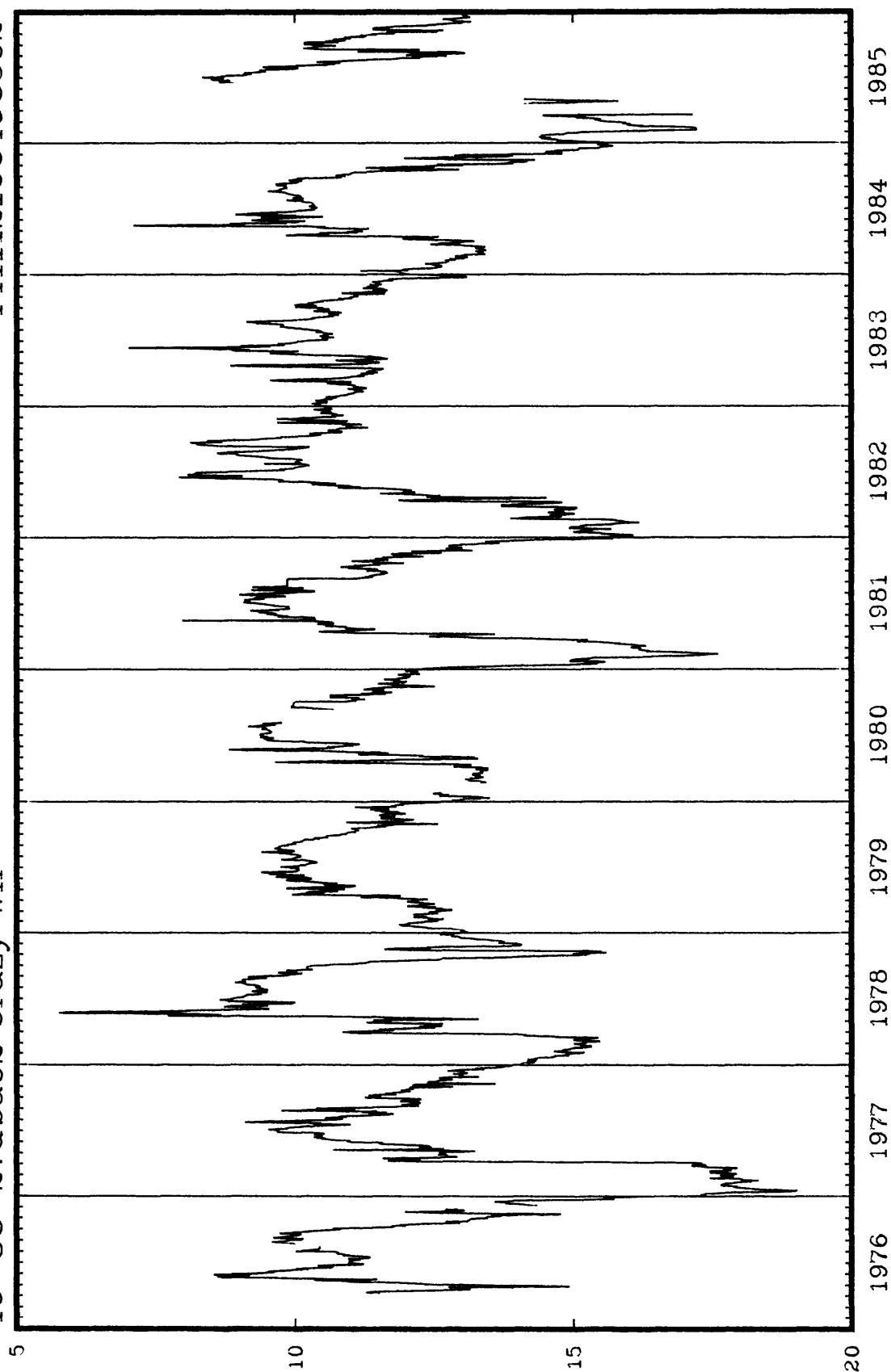
440912106512001



JOHNSON COUNTY

49-83-27dba02 Crazy Wn

441112106493502



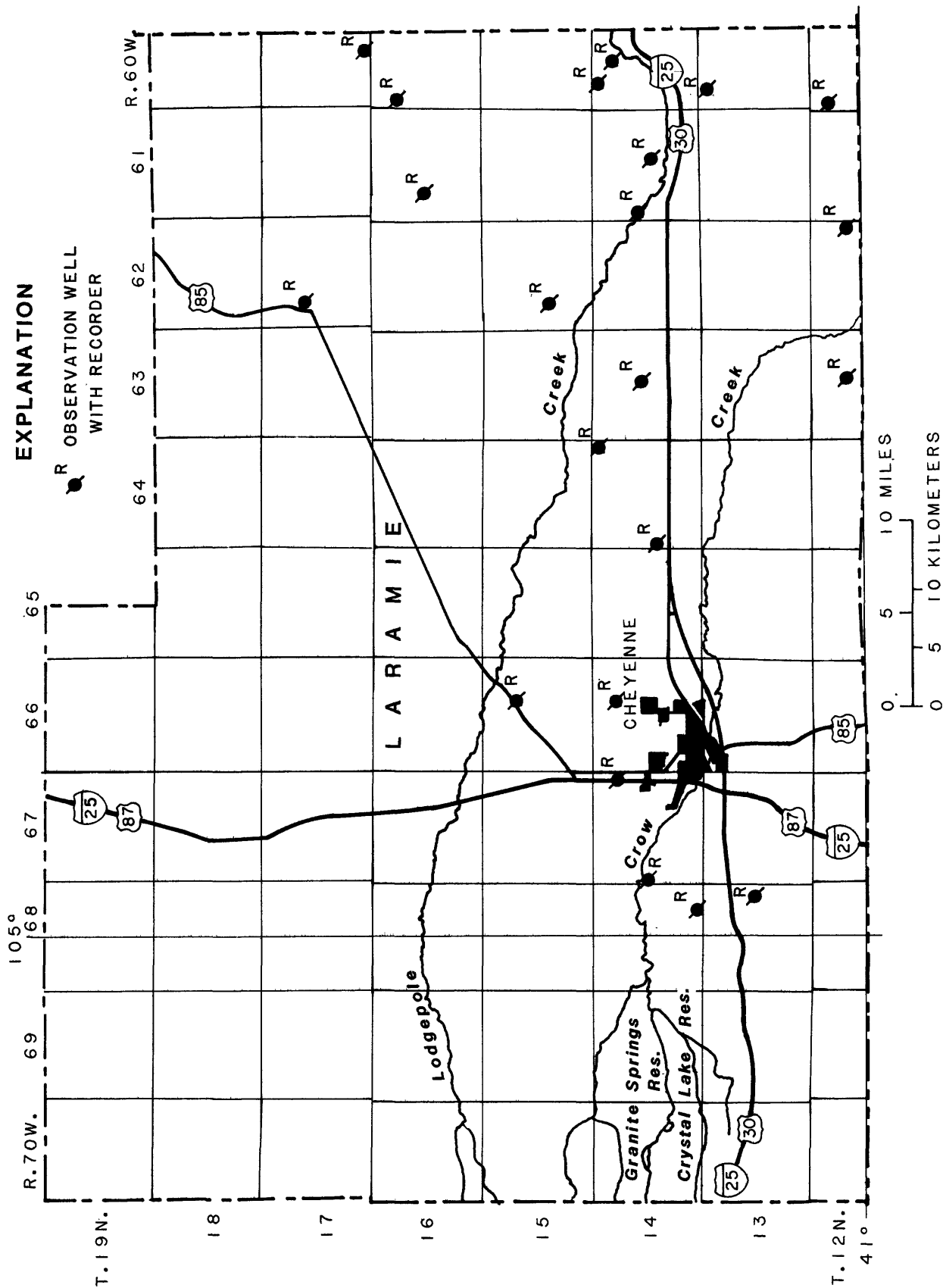


Figure 11.--Location of observation wells in Laramie County, Wyoming.

Records of observation wells in Laramie County, Wyoming, and highest and lowest recorded water levels, in feet below land surface.

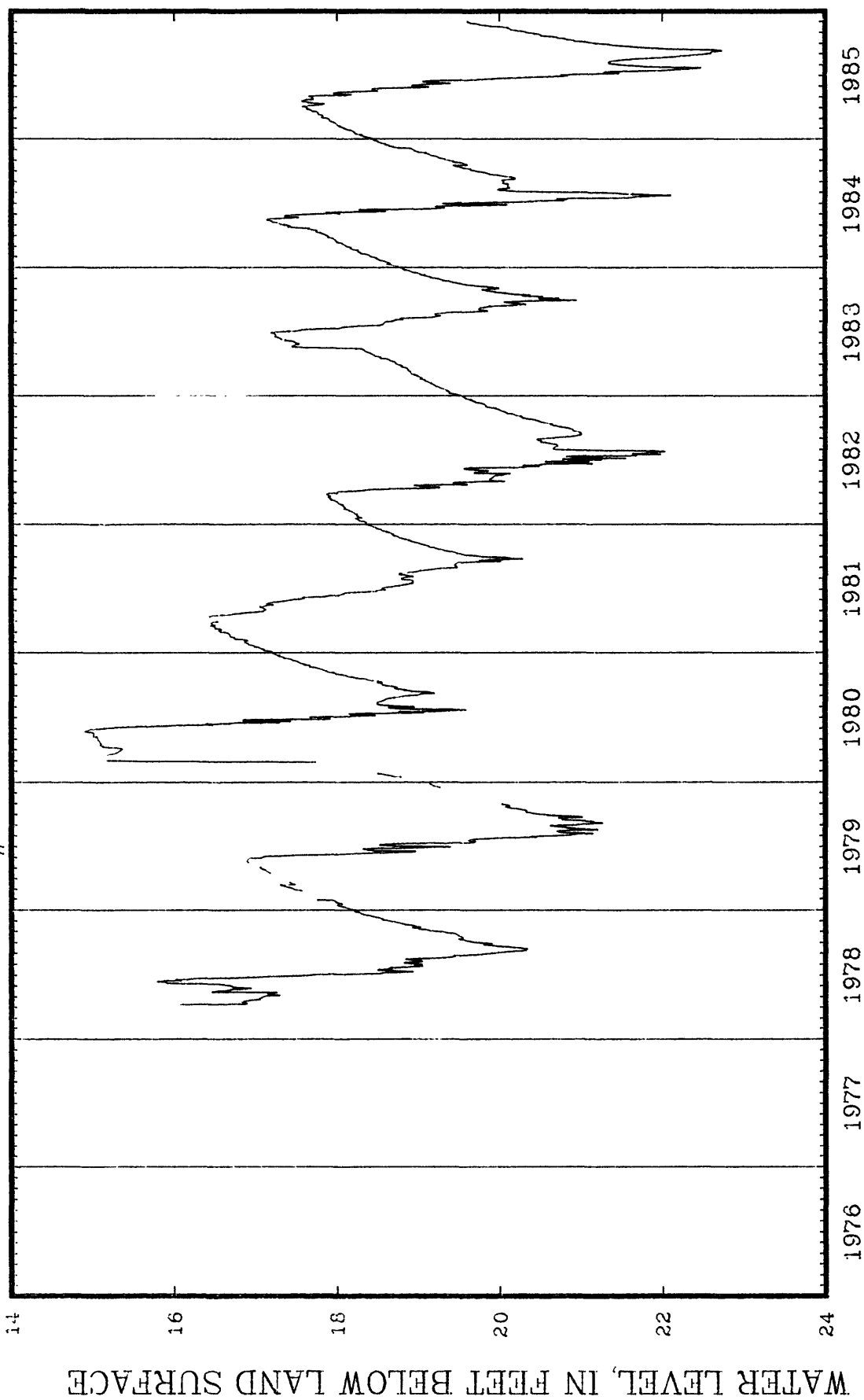
Well number	Well depth (ft)	Use of water	Geologic source	Records available (yr)	Water levels			
					Highest Level (ft)	Highest Month-year	Lowest Level (ft)	Lowest Month-year
12-60-07ddd01	105	U	123WRVR	1978-85	14.90	05-80	22.74	09-85
12-62-13baa01	198	U	111TRRC	1975-85	38.53	05-75	65.28	07-85
12-63-15aaa02	110	U	123BRUL	1971-85	14.11	04-74	46.28	09-78
13-60-05ccb01	100	U	123BRUL	1969-85	34.18	05-84	63.52	10-79
13-68-13ccc01	---	U	1210GLL	1942-50, 1969-85	¹ 36.78	03-45	88.28	08-83
14-60-05bcb01	98	U	123BRUL	1957-85	28.96	04-85	56.62	07-77
14-60-05bcb01	80	U	123BRUL	1973-85	15.56	06-84	31.16	08-79
14-61-18ddd01	90	-	123WRVR	1977-85	9.08	06-84	22.79	10-79
14-61-22dcc01	---	U	123BRUL	1975-85	16.10	06-83	28.60	10-79
14-63-15aaa01	165	U	122ARKR	1977-85	45.48	06-80	48.08	12-85
14-64-01dcb01	200	-	1210GLL	1977-85	¹ 102.12	05-77	¹ 111.22	11-85
14-64-19bcc01	180	-	1210GLL	1977-85	157.76	04-85	158.99	10-81
14-66-10aba01	190	-	1210GLL	1977-85	125.82	02-79	130.20	07-85
14-67-12abb01	220	U	1210GLL	1985	96.90	05-85	108.94	07-85
14-67-18ddc01	229	U	1210GLL	1956-85	12.48	09-57	48.07	08-78
14-68-35ddc02	230	U	1210GLL	1969-85	98.82	04-70	113.26	09-81
15-62-20aaa01	165	-	1210GLL	1977-85	¹ 94.56	06-77	99.66	11-85
15-66-10bab01	210	-	1210GLL	1977-85	58.73	04-85	86.70	09-78
16-60-07bbb02	215	U	1210GLL	1983-85	147.74	04-85	149.55	09-83
16-61-17aaa01	285	-	1210GLL	1977-85	196.72	04-85	¹ 201.32	12-77
17-60-33cbb01	275	U	123BRUL	1975-85	177.52	05-75	213.67	11-85
17-62-17ccc01	360	U	1210GLL	1982-85	226.07	06-85	227.03	12-85

¹ From hand-measured data

LARAMIE COUNTY

12-60-07ddd01 Laramie #1

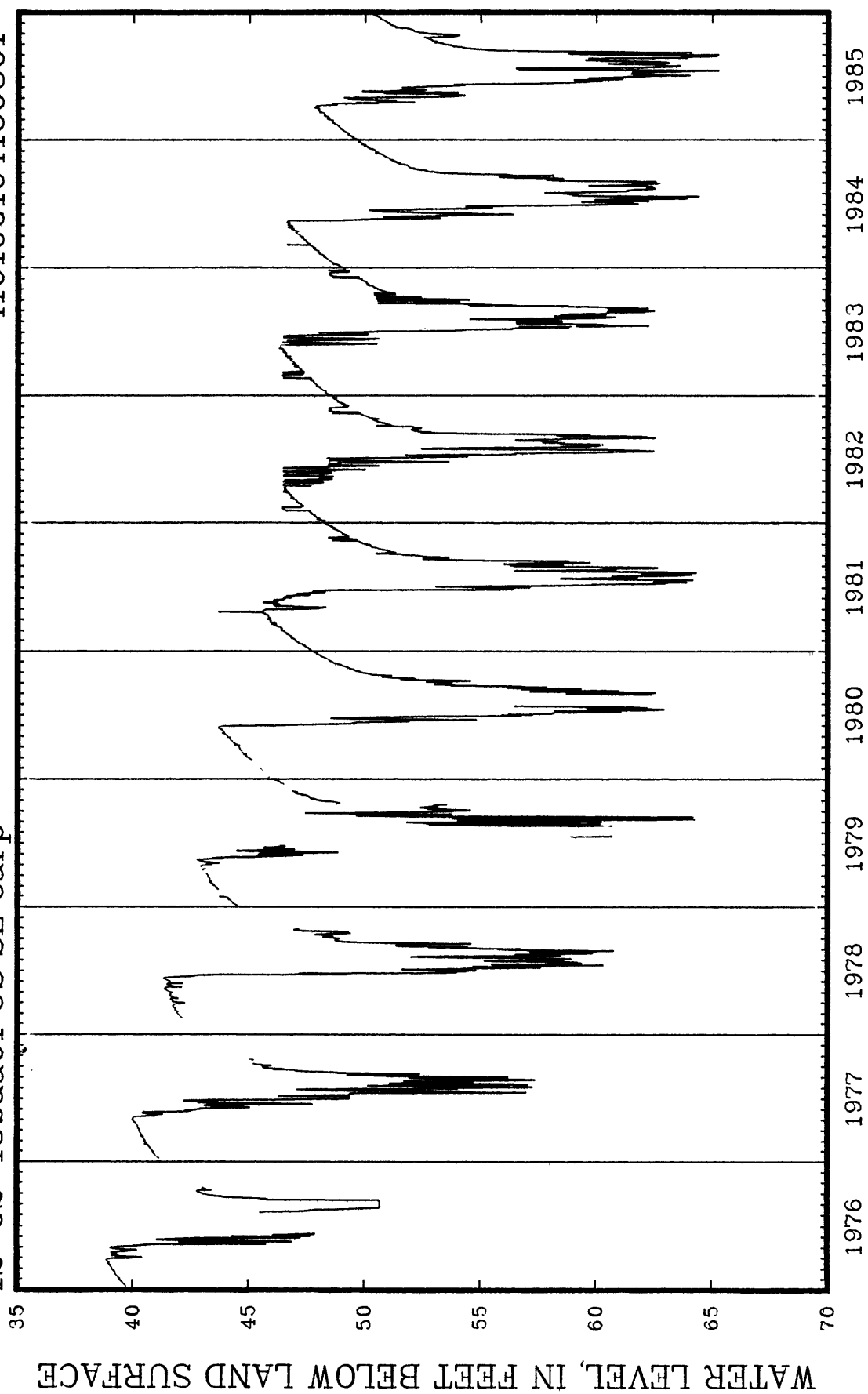
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LARAMIE COUNTY

12-62-13baa01 US SE Carp

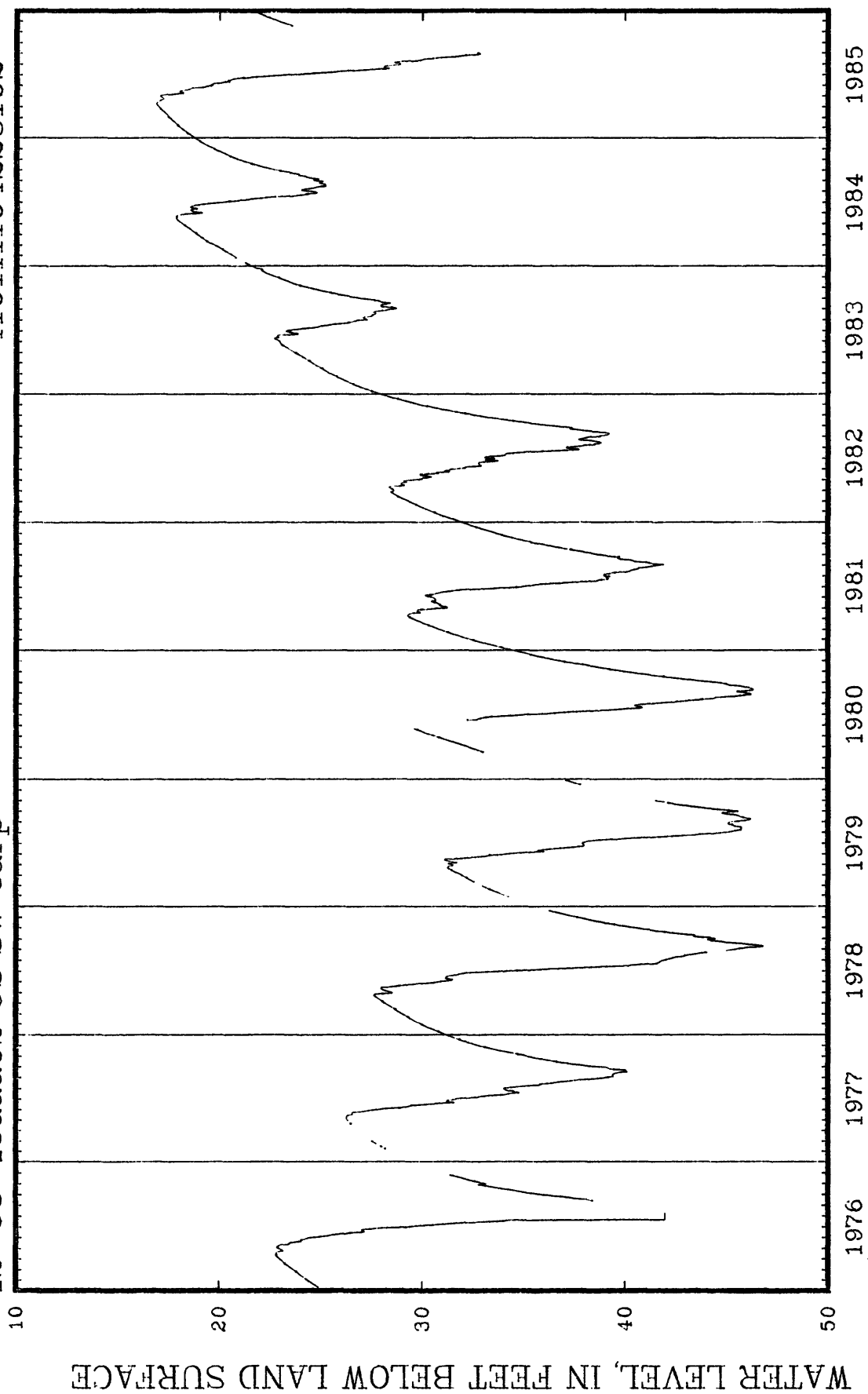
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LARAMIE COUNTY

12-63-15aaa02 US SW Carp

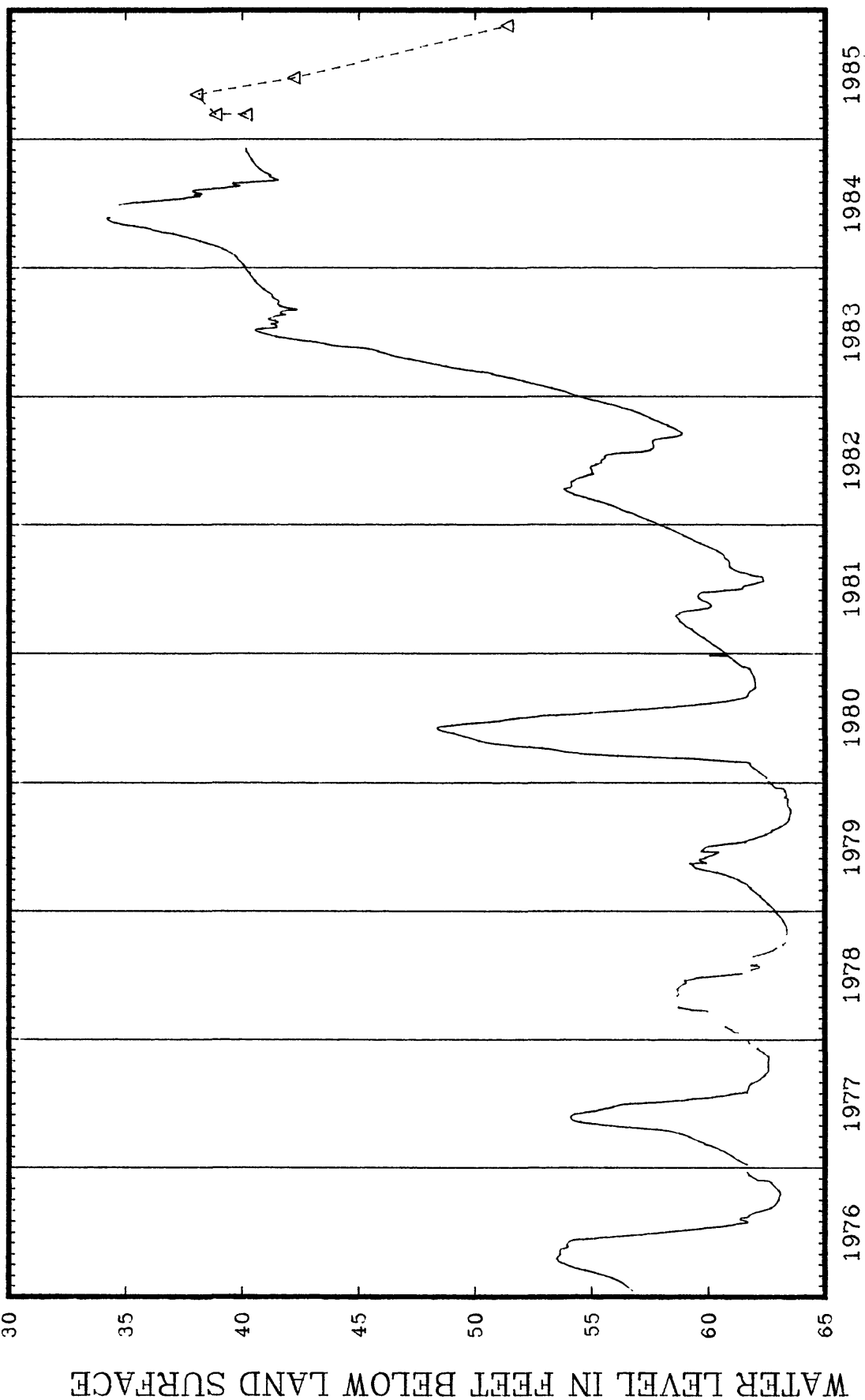
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LARAMIE COUNTY

13-60-05ccb01 Glantz

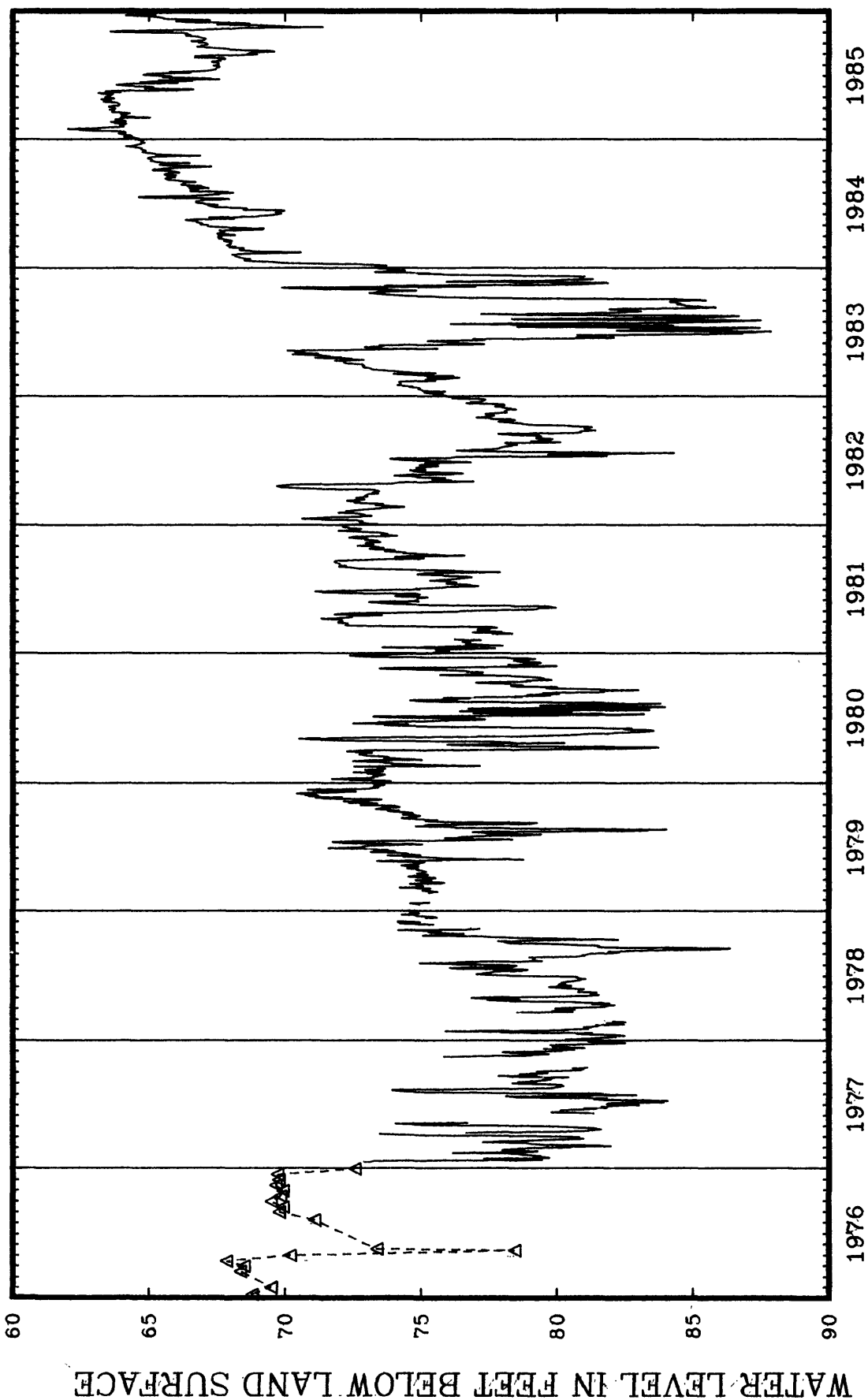
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LARAMIE COUNTY

13-68-13ccc01 Borie

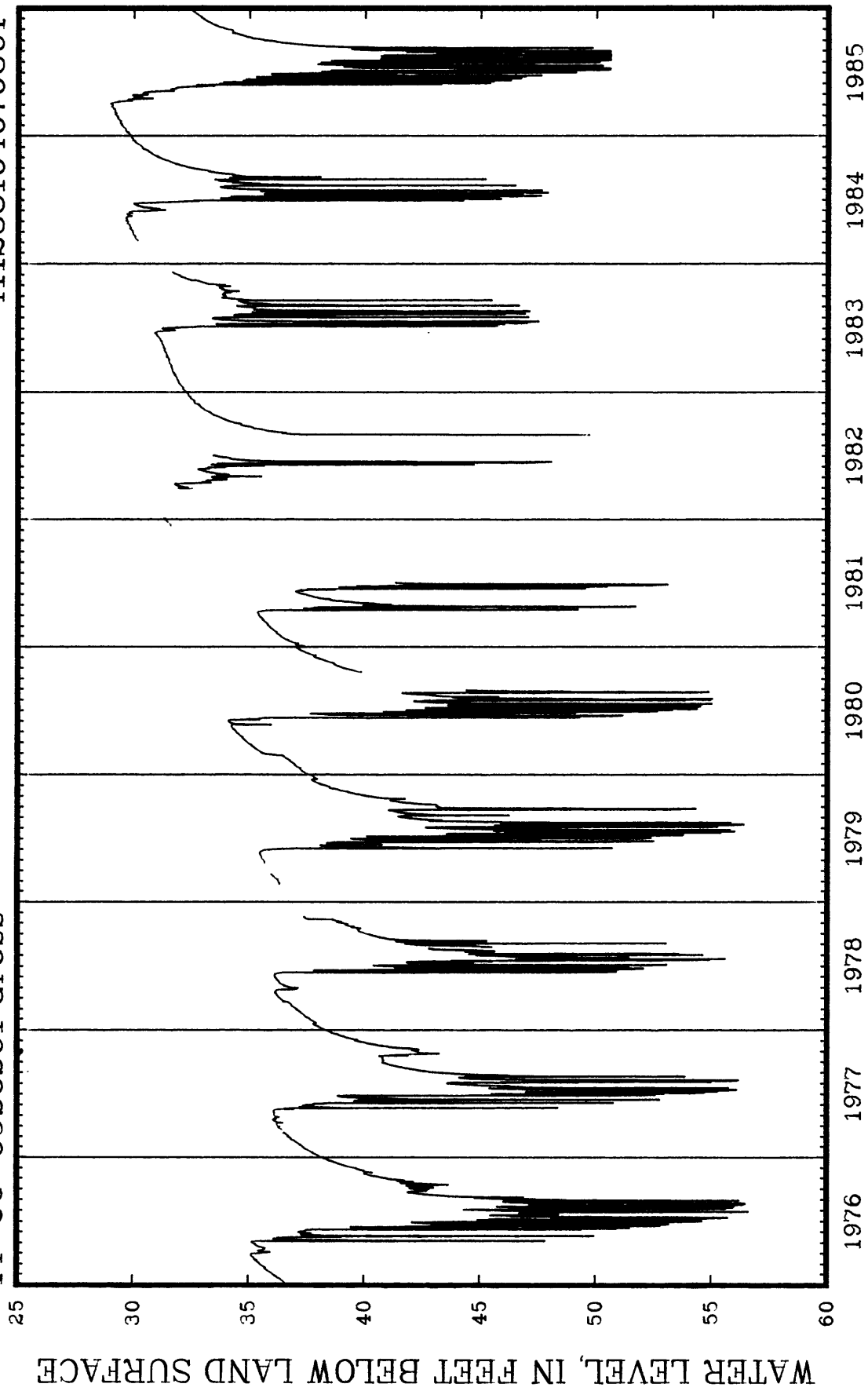
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LARAMIE COUNTY

14-60-05bcb01 Gross

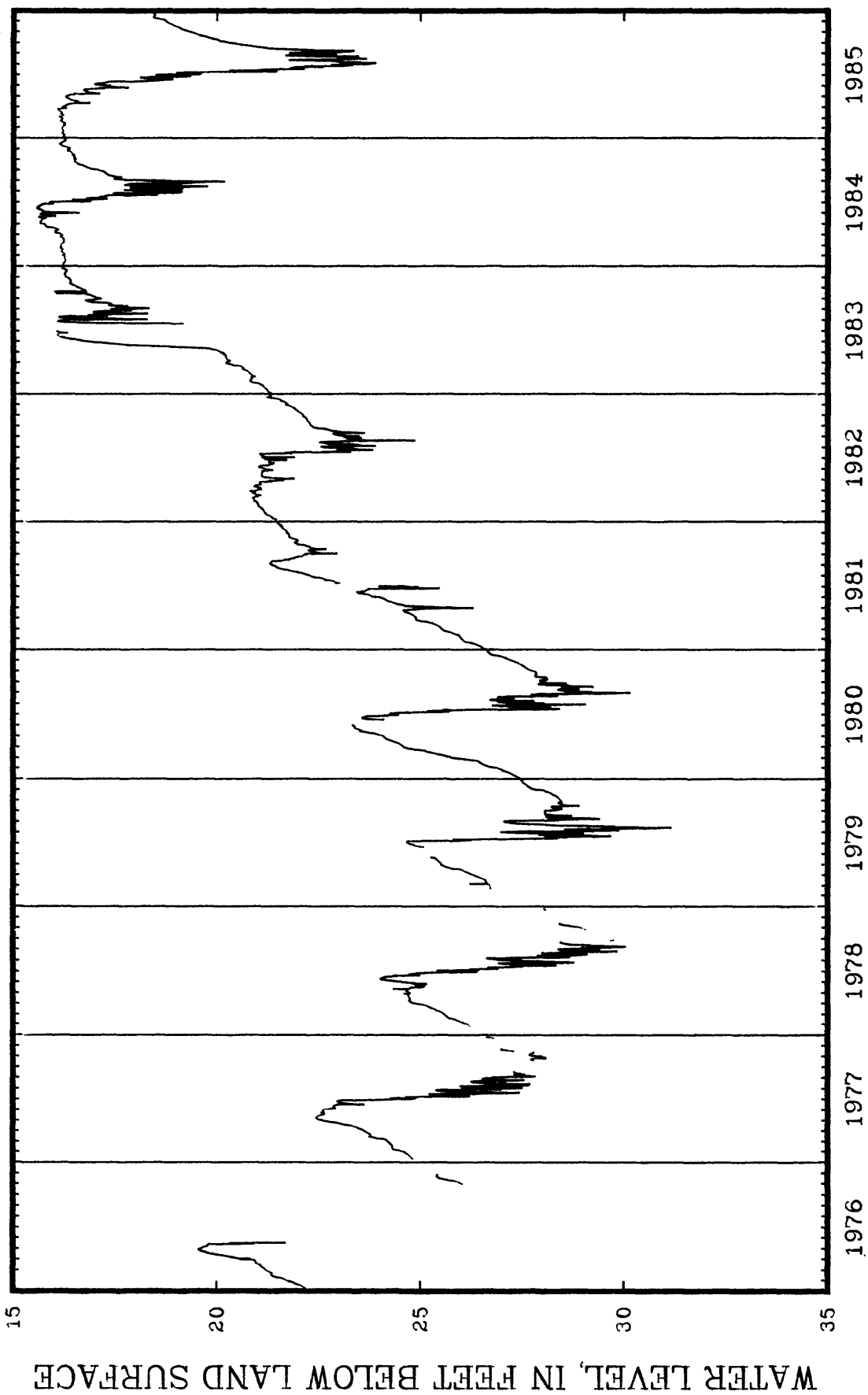
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LARAMIE COUNTY

14-60-10dbb01 USGS Pine

411131104041801

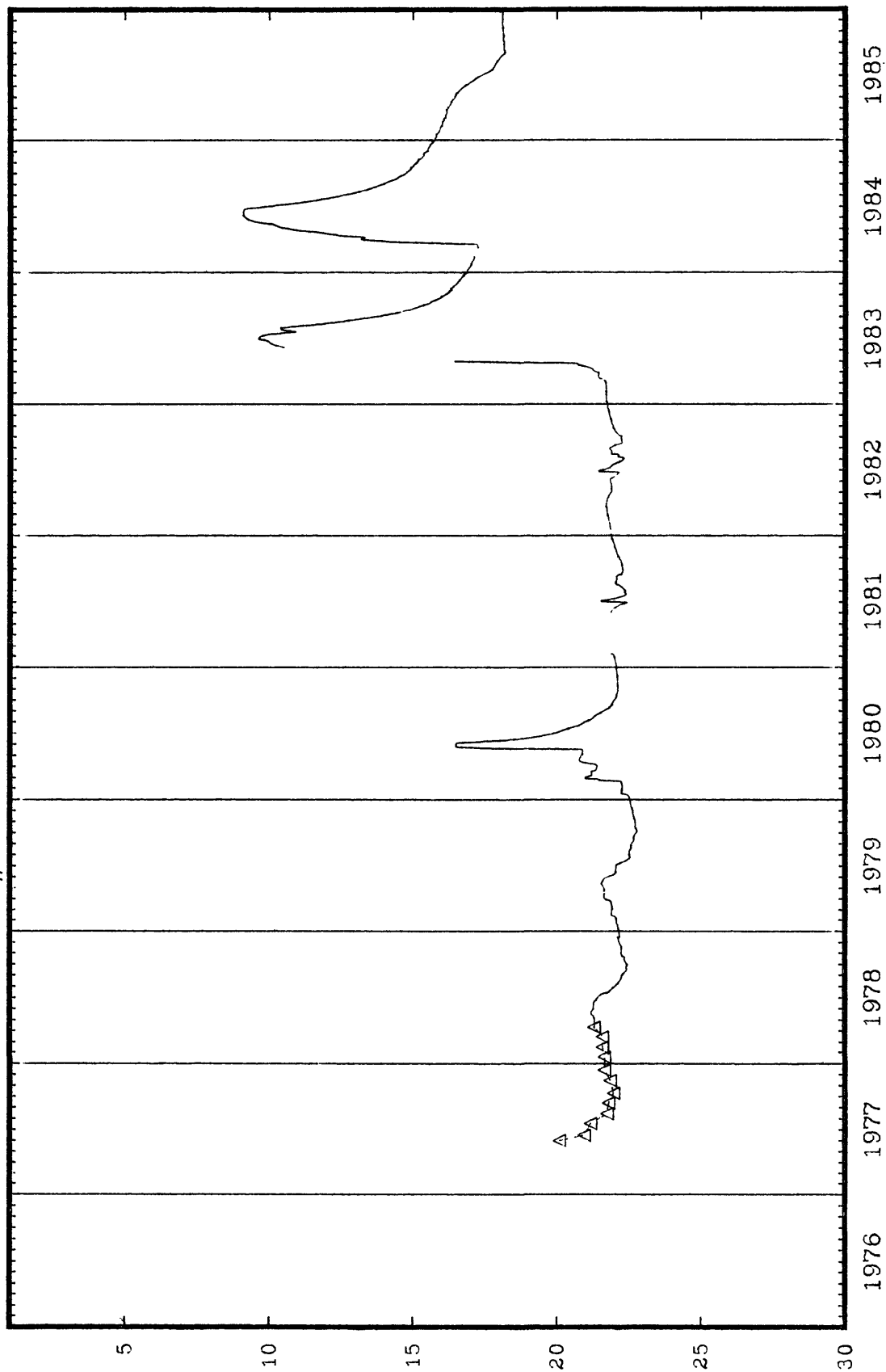


LARAMIE COUNTY

14-61-18ddd01 Laramie #2

411022104141201

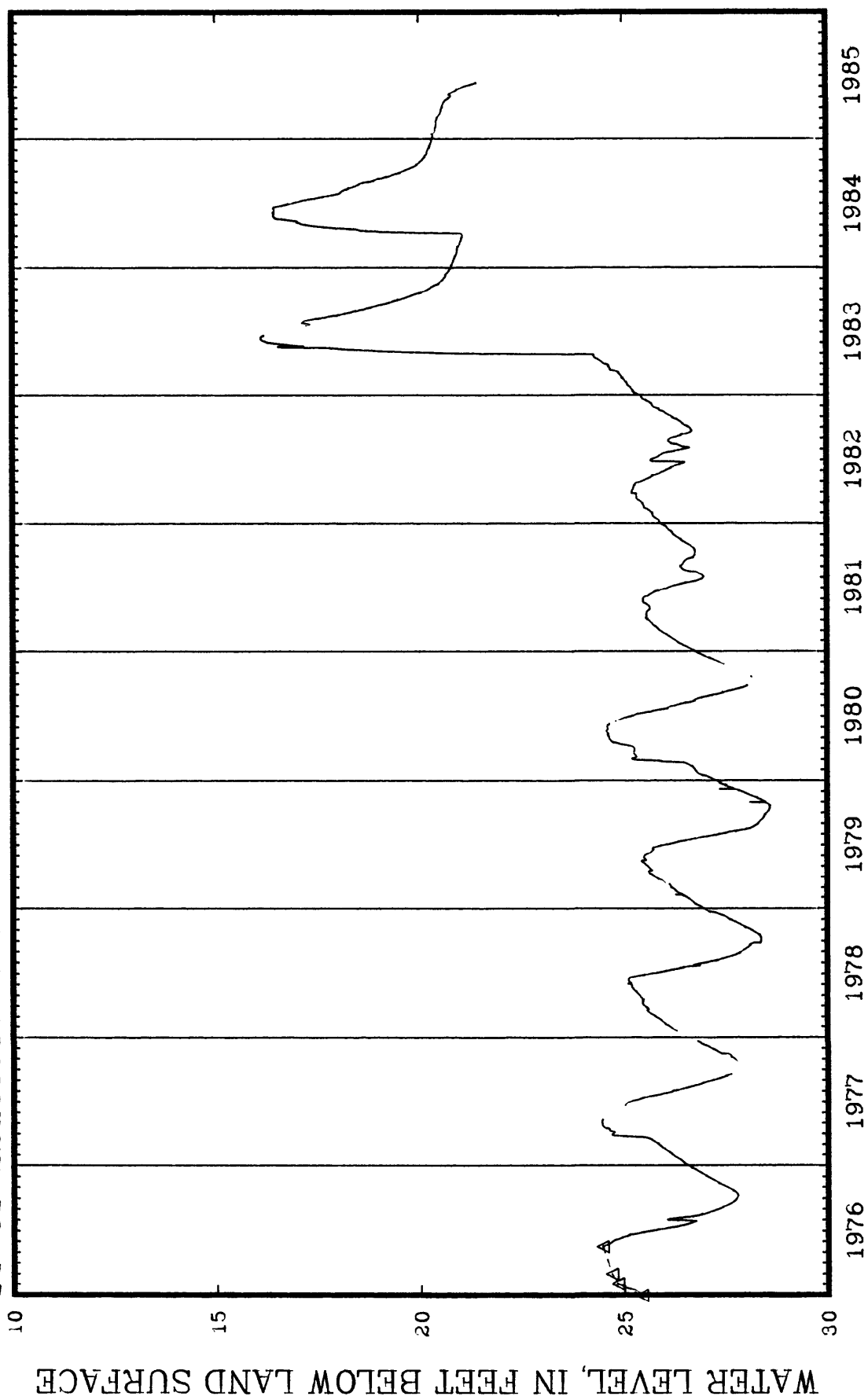
WATER LEVEL IN FEET BELOW LAND SURFACE



LARAMIE COUNTY

14-61-22dcc01 Brown

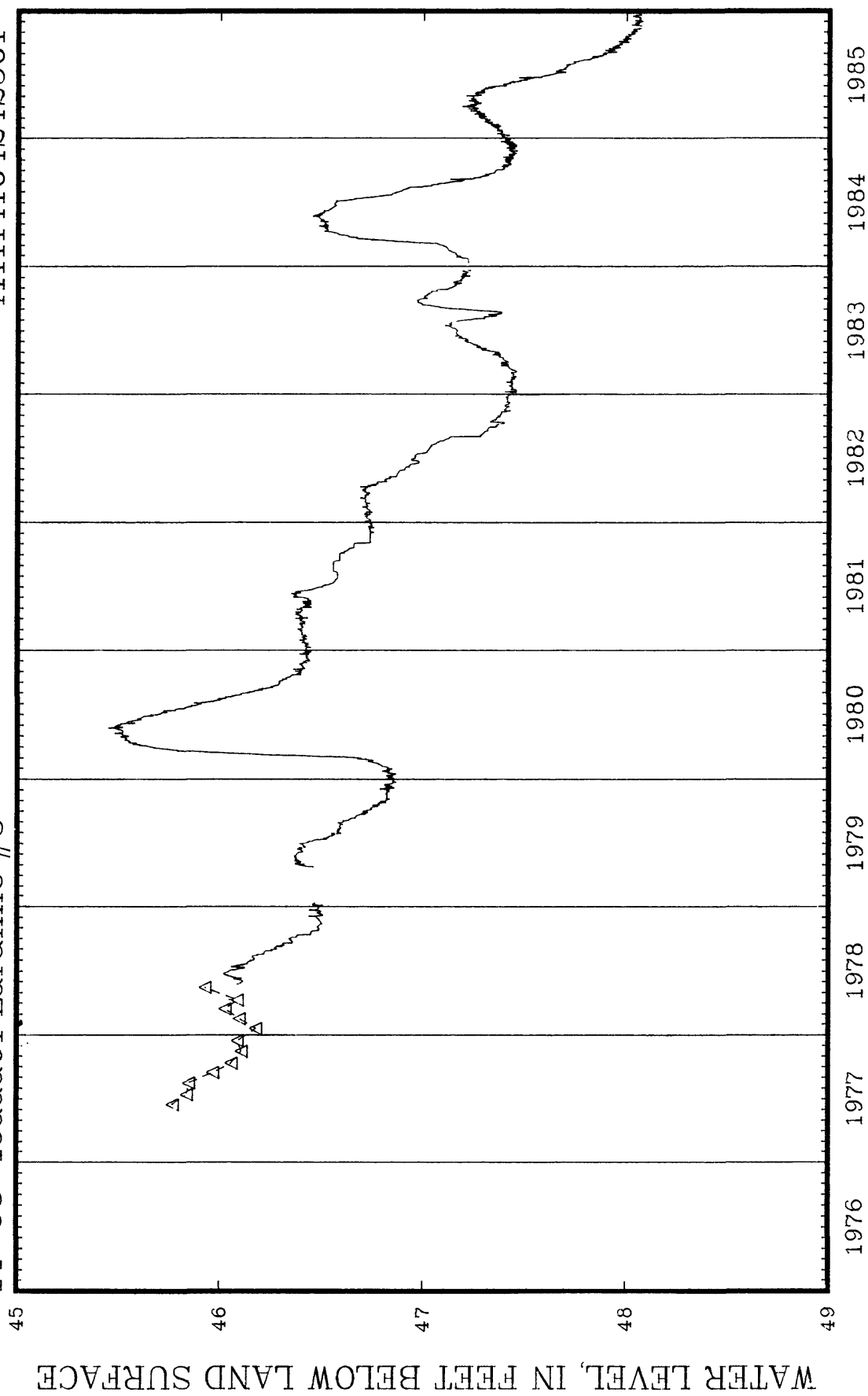
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LARAMIE COUNTY

14-63-15aaa01 Laramie #3

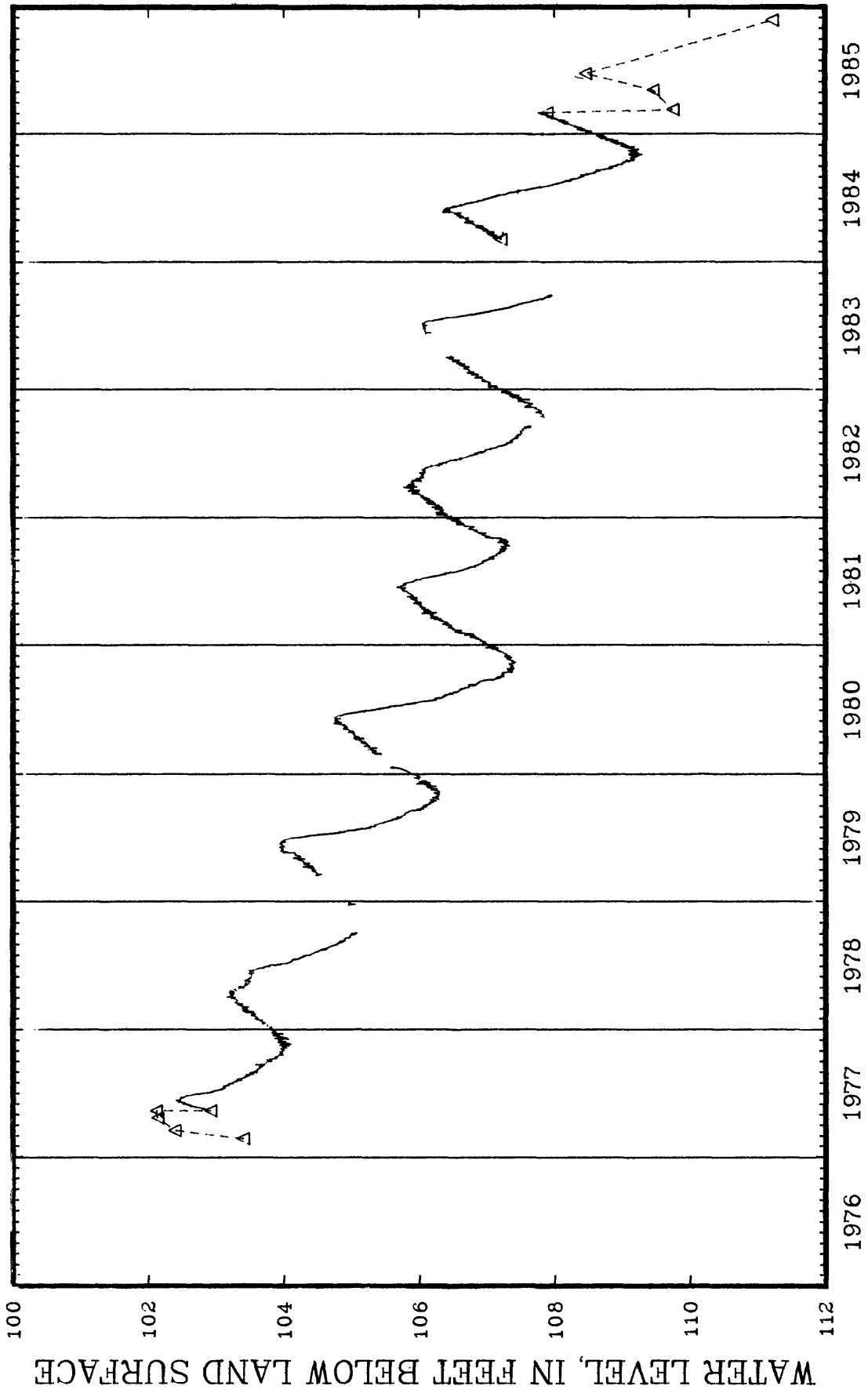
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LARAMIE COUNTY

14-64-01dcb01 Hollenbeck

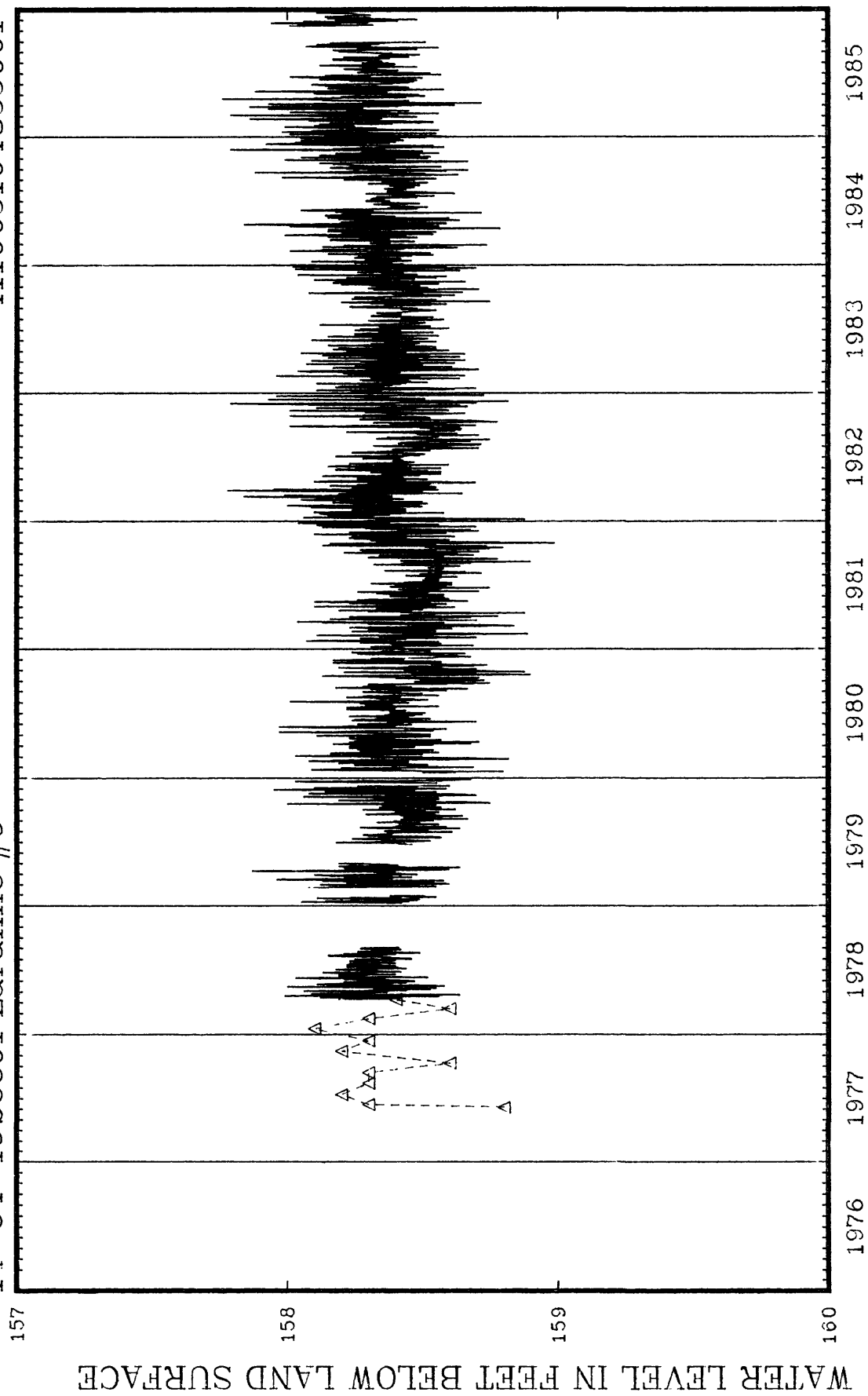
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LARAMIE COUNTY

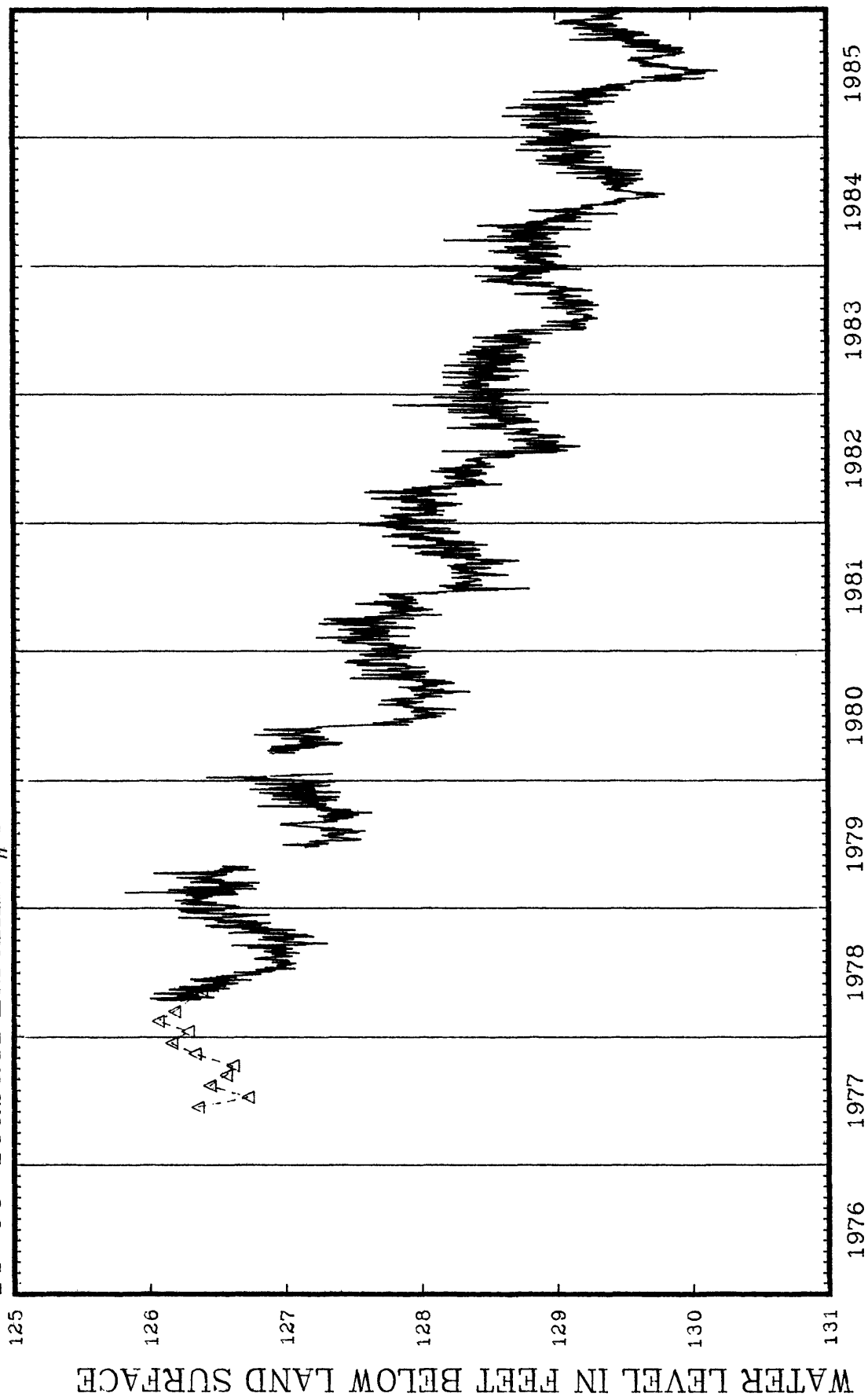
14-64-19bcc01 Laramie #9

411005104355001



LARAMIE COUNTY

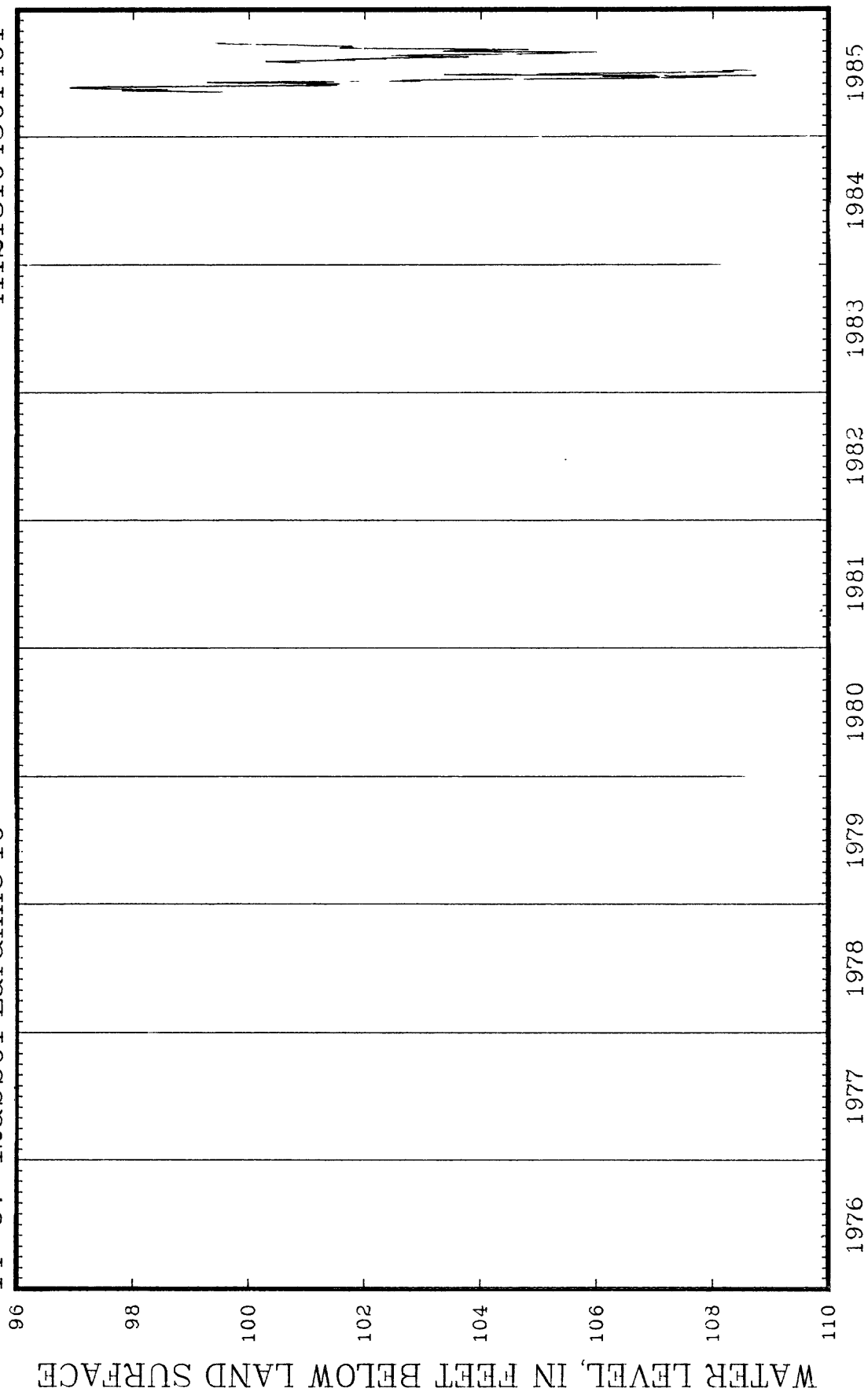
14-66-10aba01 Laramie #8 411210104452001



LARAMIE COUNTY

14-67-12abb01 Laramie 10

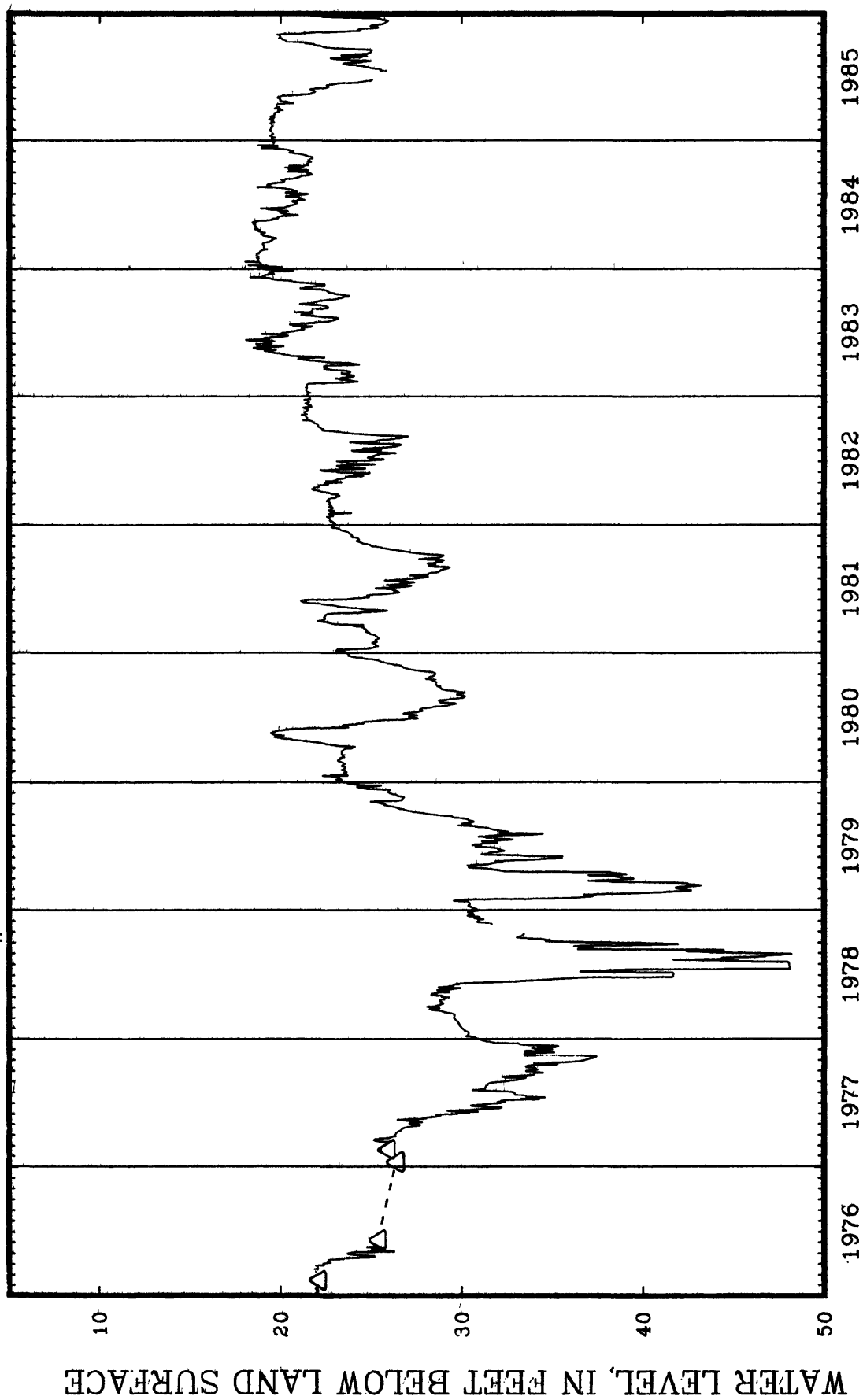
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LARAMIE COUNTY

14-67-18ddc01 Bell #14

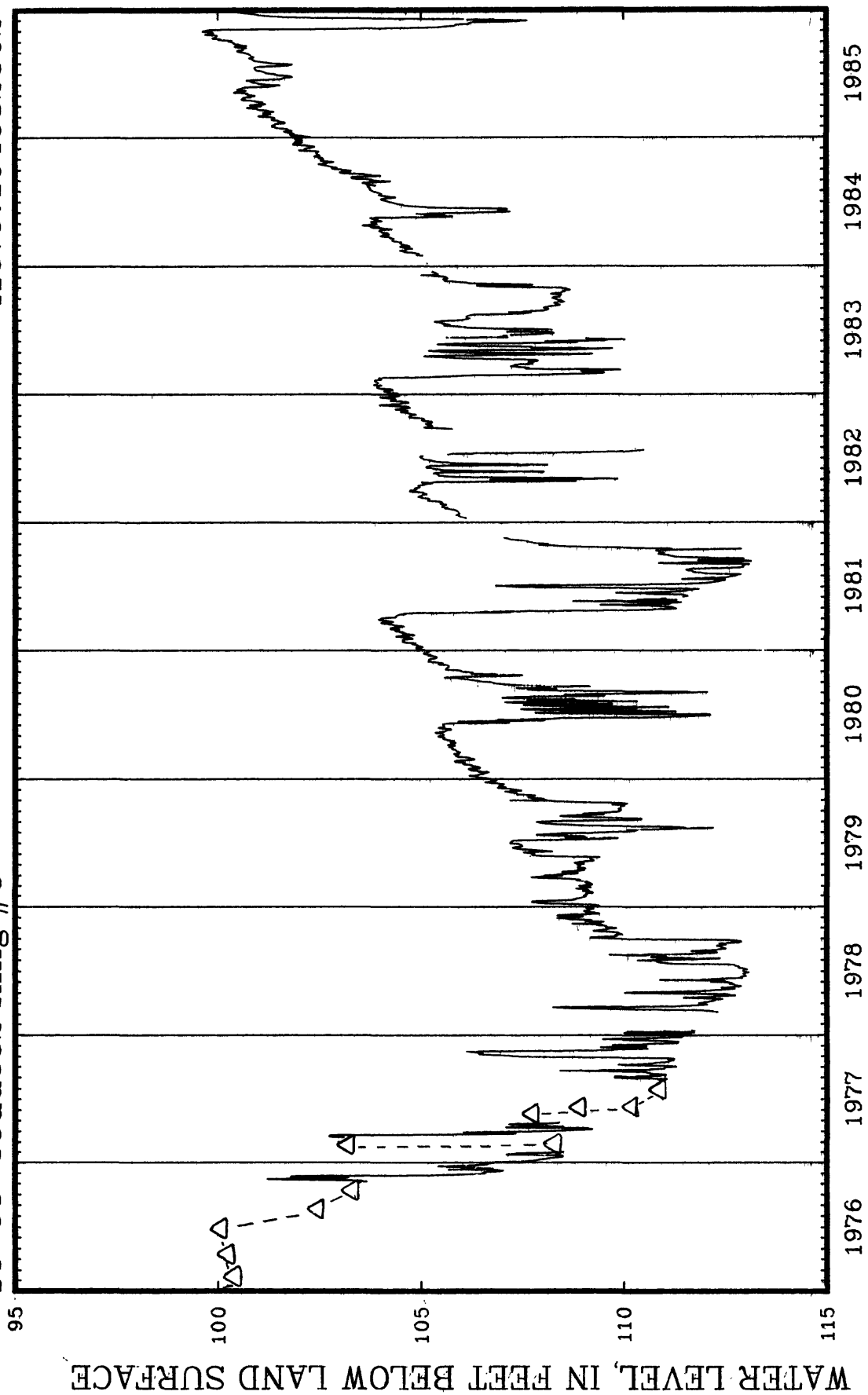
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LARAMIE COUNTY

14-68-35ddc02 King #3

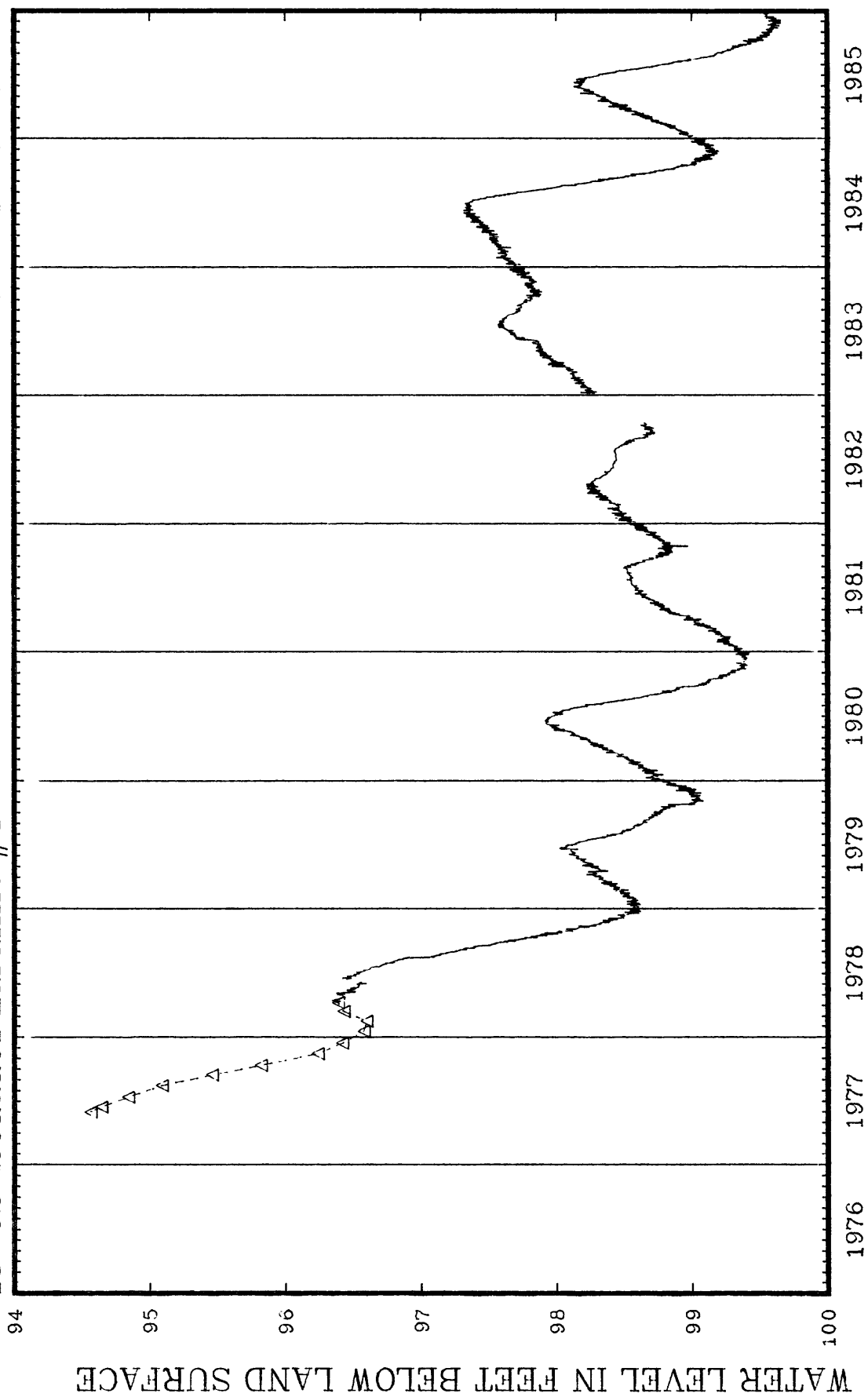
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LARAMIE COUNTY

15-62-20aaa01 Laramie #4

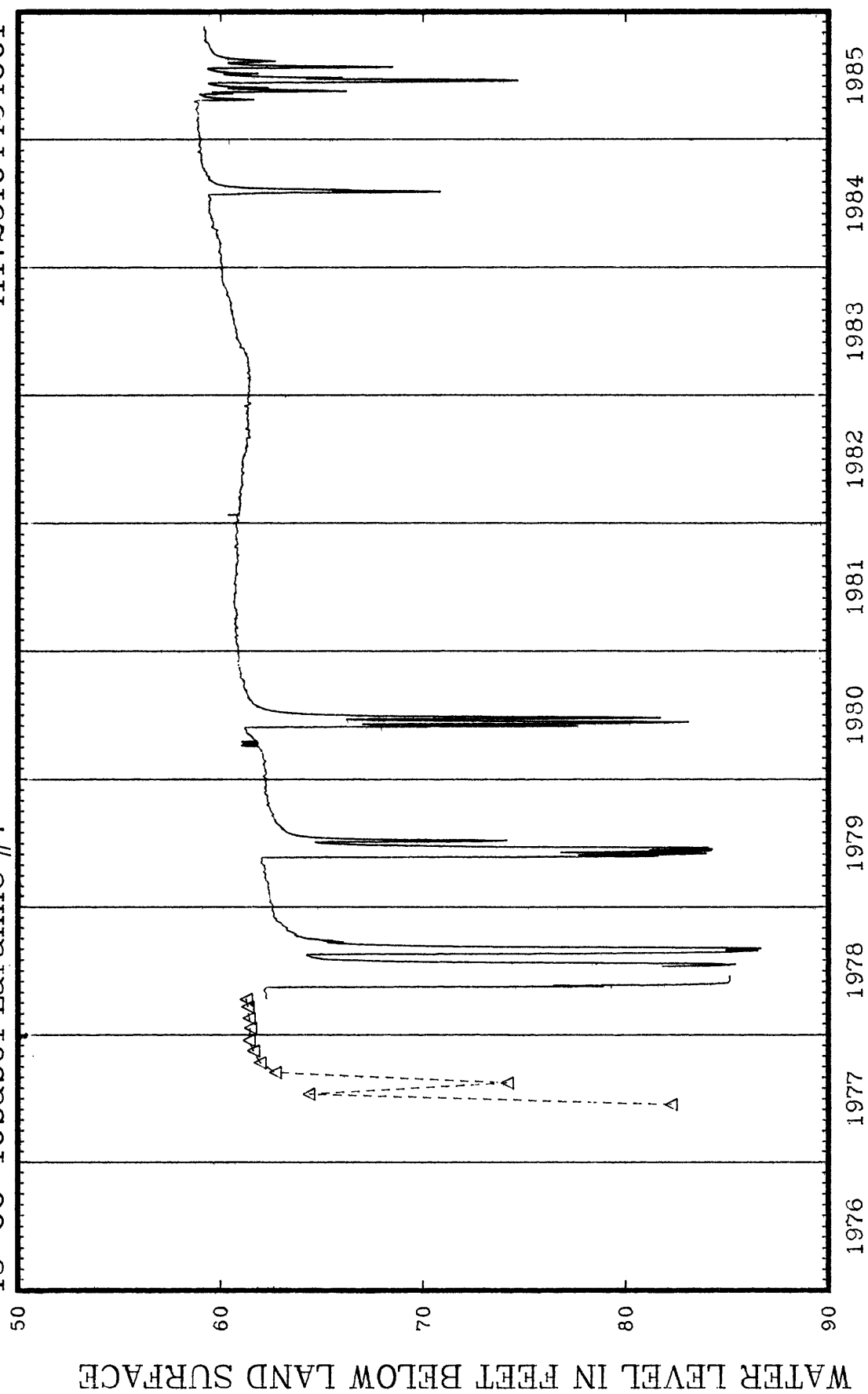
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LARAMIE COUNTY

15-66-10bab01 Laramie #7

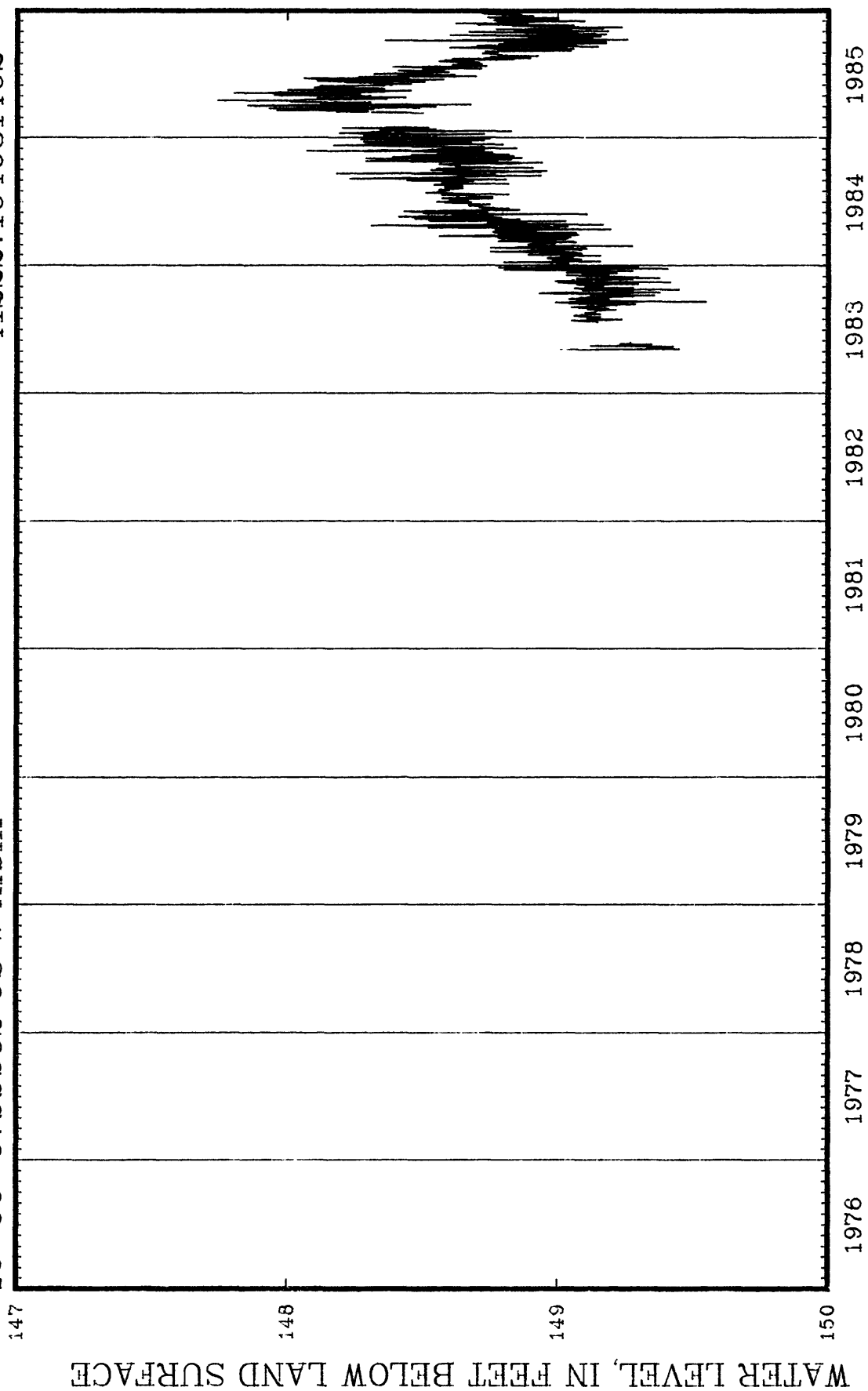
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LARAMIE COUNTY

16--60--07bbb02 US W Albin

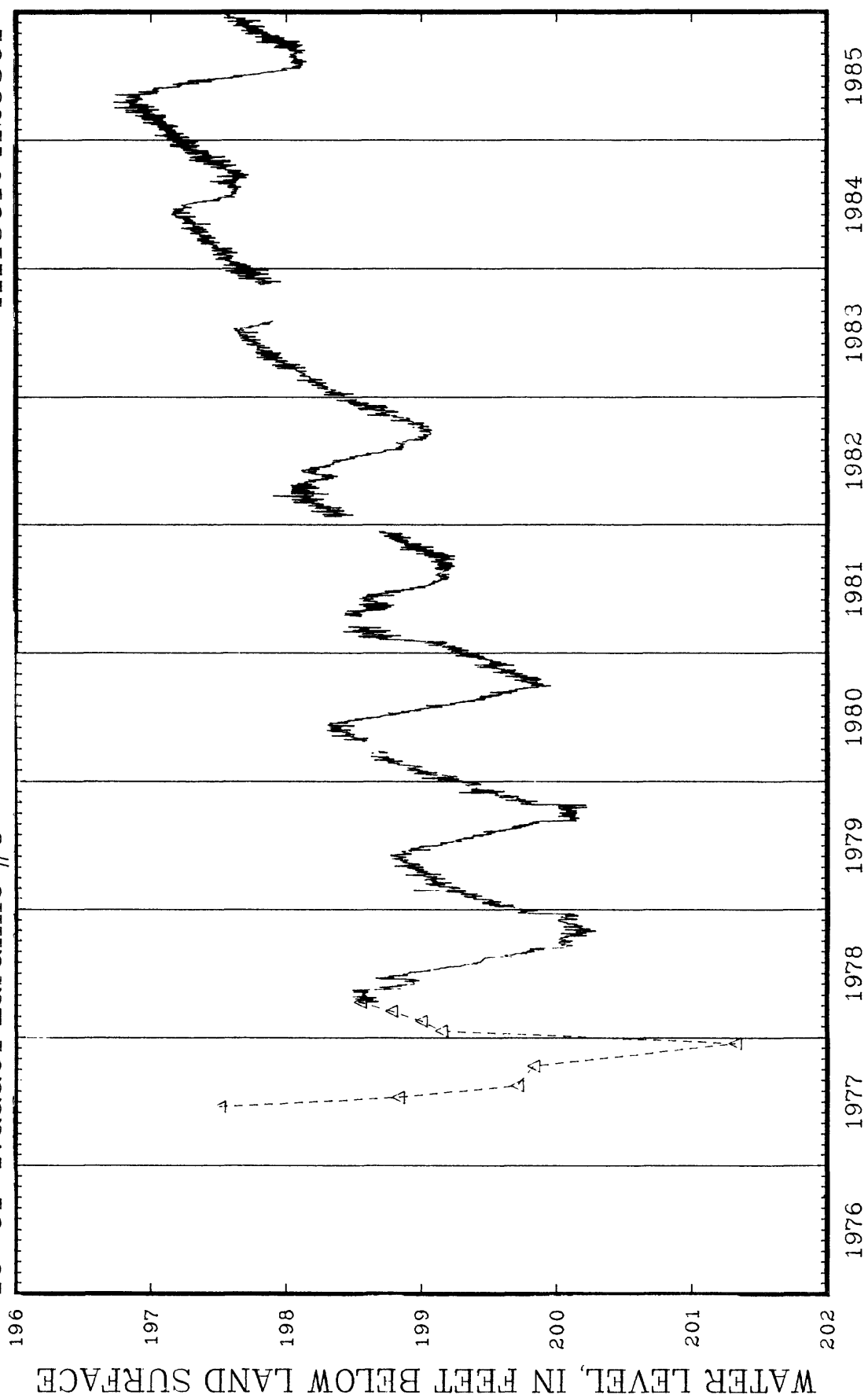
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LARAMIE COUNTY

16-61-17aa01 Laramie #5

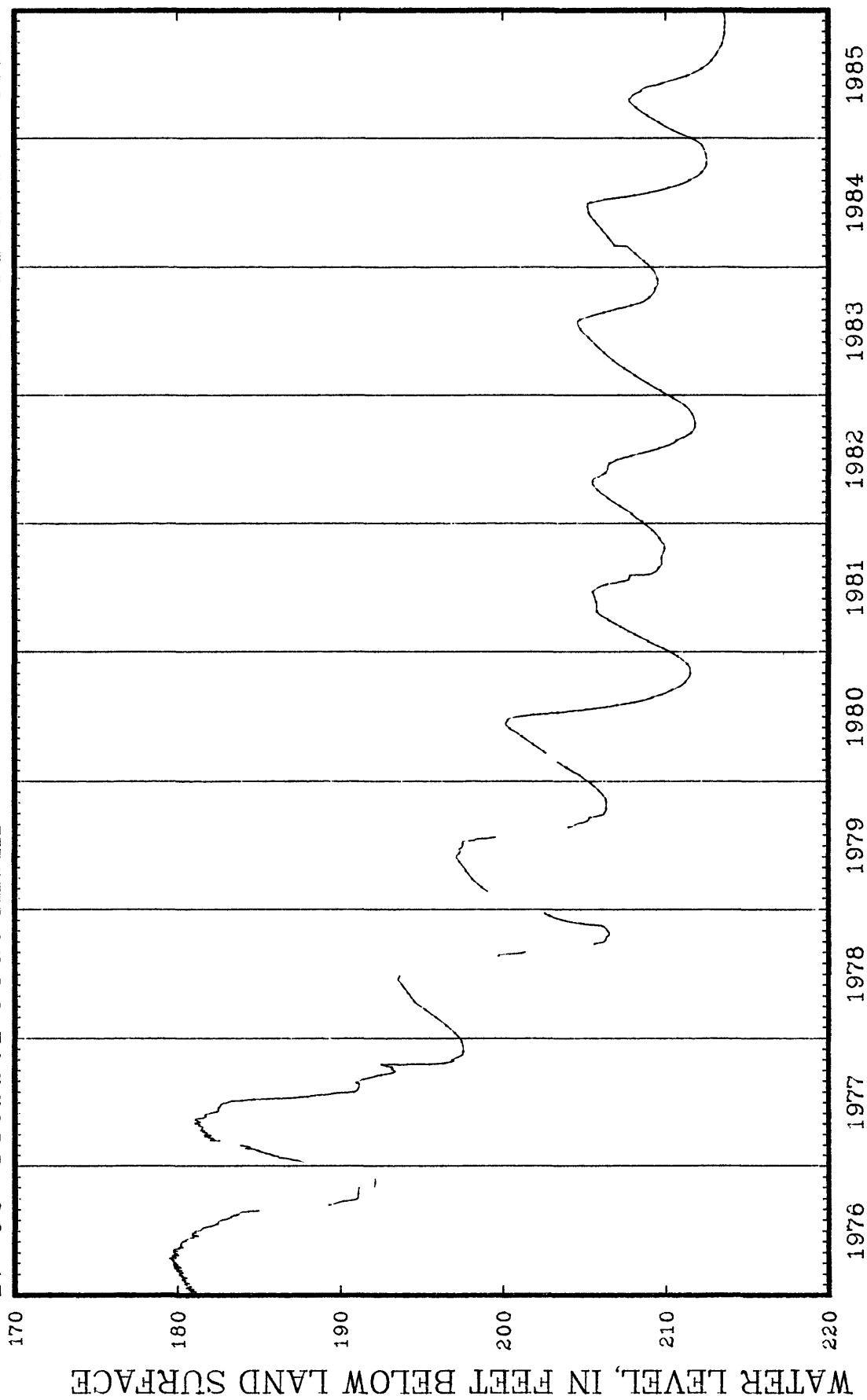
411136104125301



LARAMIE COUNTY

17-60-33cbb01 USGS Albin

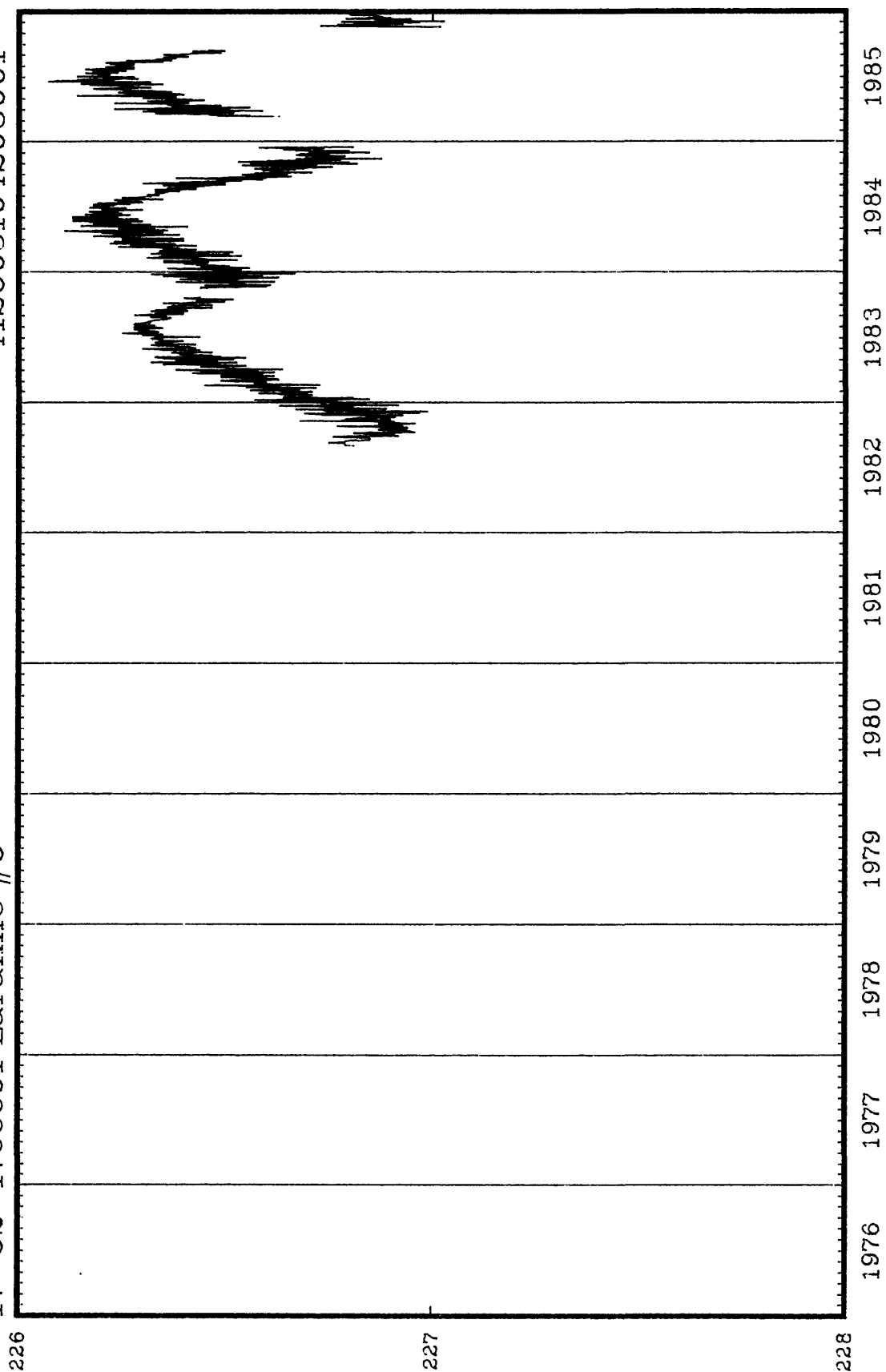
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LARAMIE COUNTY

17-62-17ccc01 Laramie #6

412605104203001



WATER LEVEL, IN FEET BELOW LAND SURFACE

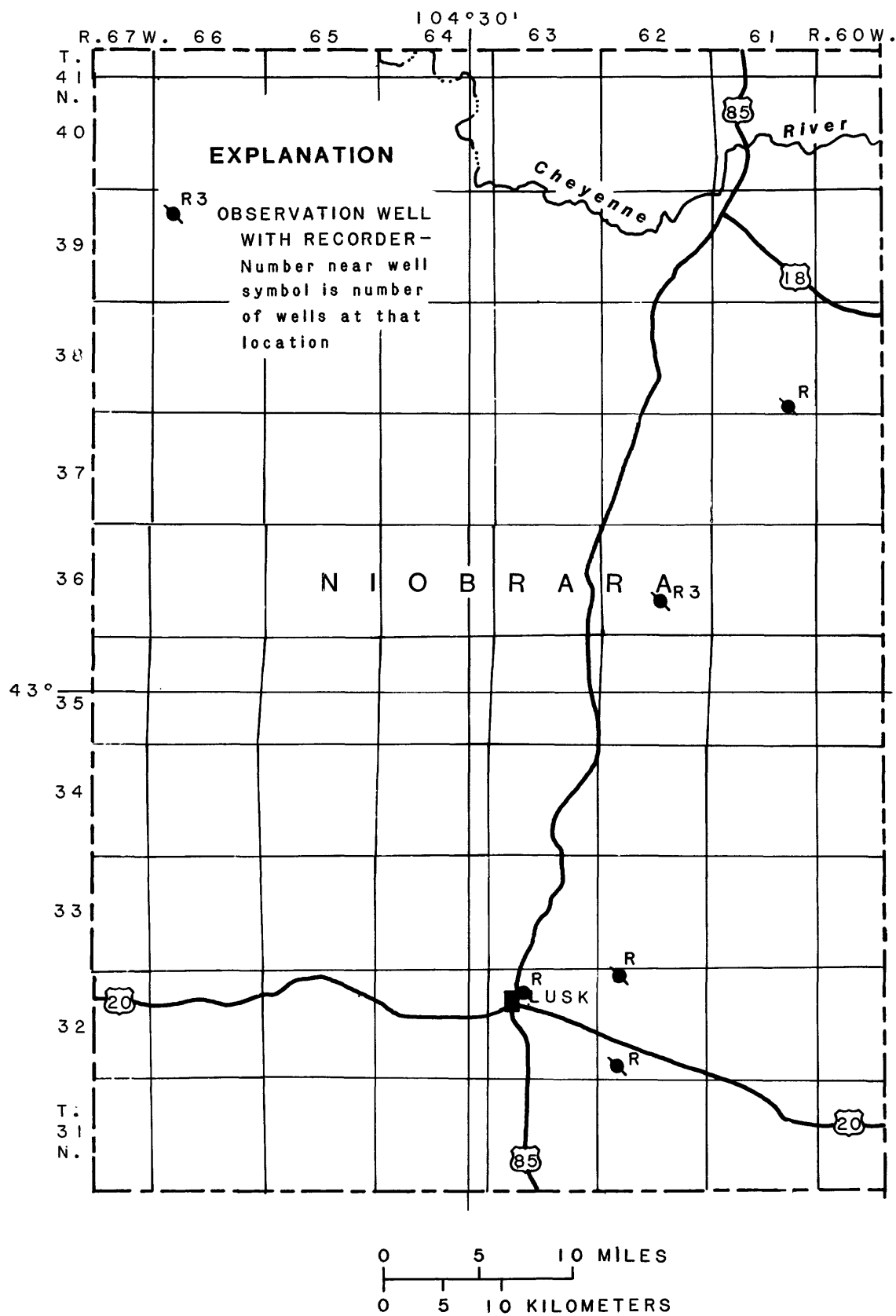


Figure 12.--Location of observation wells in Niobrara County, Wyoming.

Records of observation wells in Niobrara County, Wyoming, and highest and lowest recorded water levels, in feet below land surface.

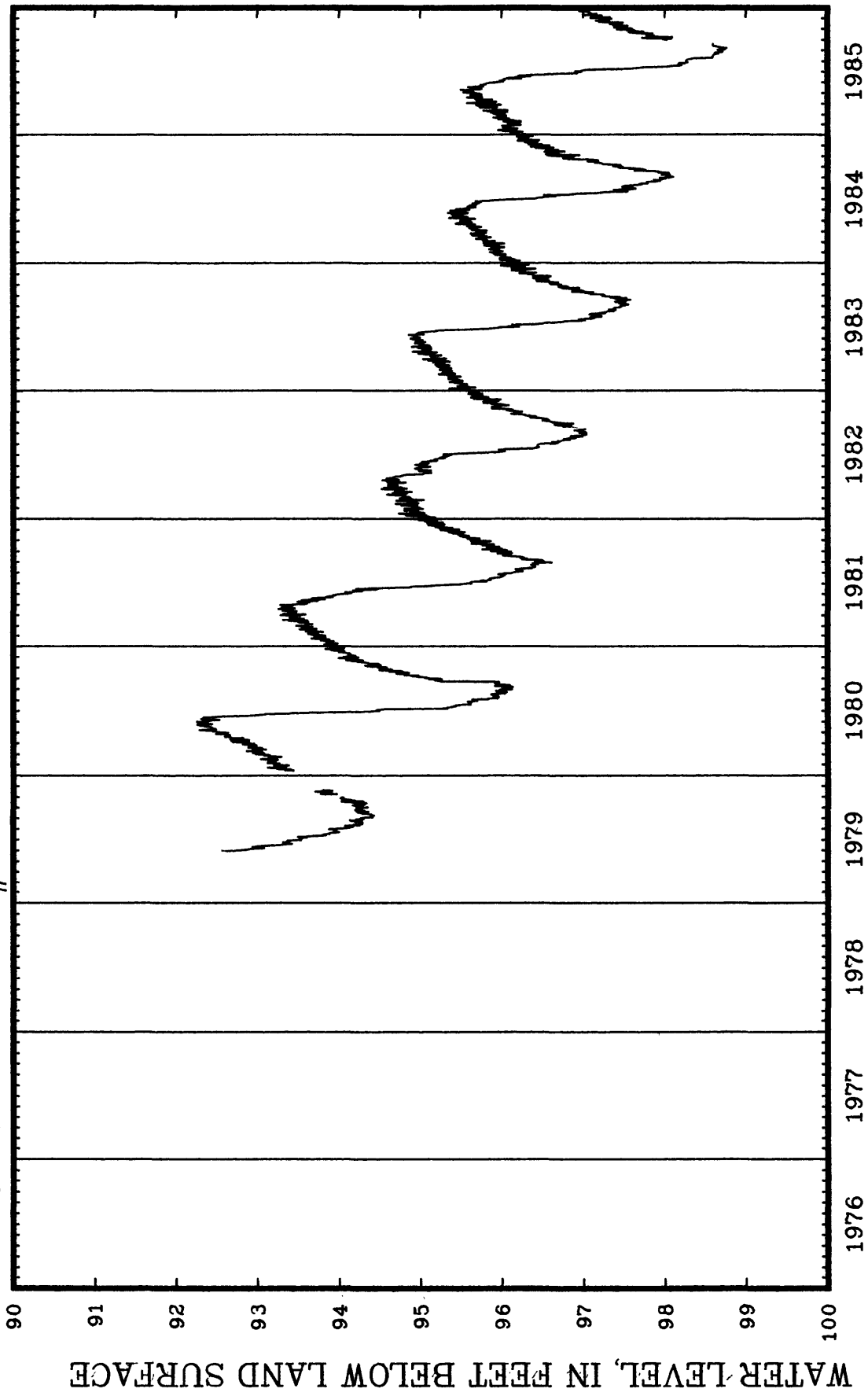
Well number	Well depth (ft)	Use of water	Geologic source	Records available (yr)	Water levels			
					Highest		Lowest	
					Level (ft)	Month-year	Level (ft)	Month-year
32-62-05baa01	177	U	122ARKR	1979-85	92.26	06-80	98.78	09-85
32-62-05bbb01	485	U	122ARKR	1970-85	20.93	06-70	37.56	08-85
32-63-08daa01	178	U	122ARKR	1979-85	19.01	12-85	48.96	09-82
36-62-28ab 01	3,269	U	331MDSN	1974-85	1549.00	05-74	558.54	09-85
28ab 02	505	U	217LKOT	1974-85	1233.87	08-74	250.14	12-85
36-62-28bbd01	1,513	U	317MNLS	1983-85	552.43	06-83	554.21	06-84
38-61-35dca01	5,155	U	317MNLS	1983-85	711.54	12-85	720.20	10-83

¹ From hand-measured data

NIOBRARA COUNTY

32-62-05baa01 Niobr #1

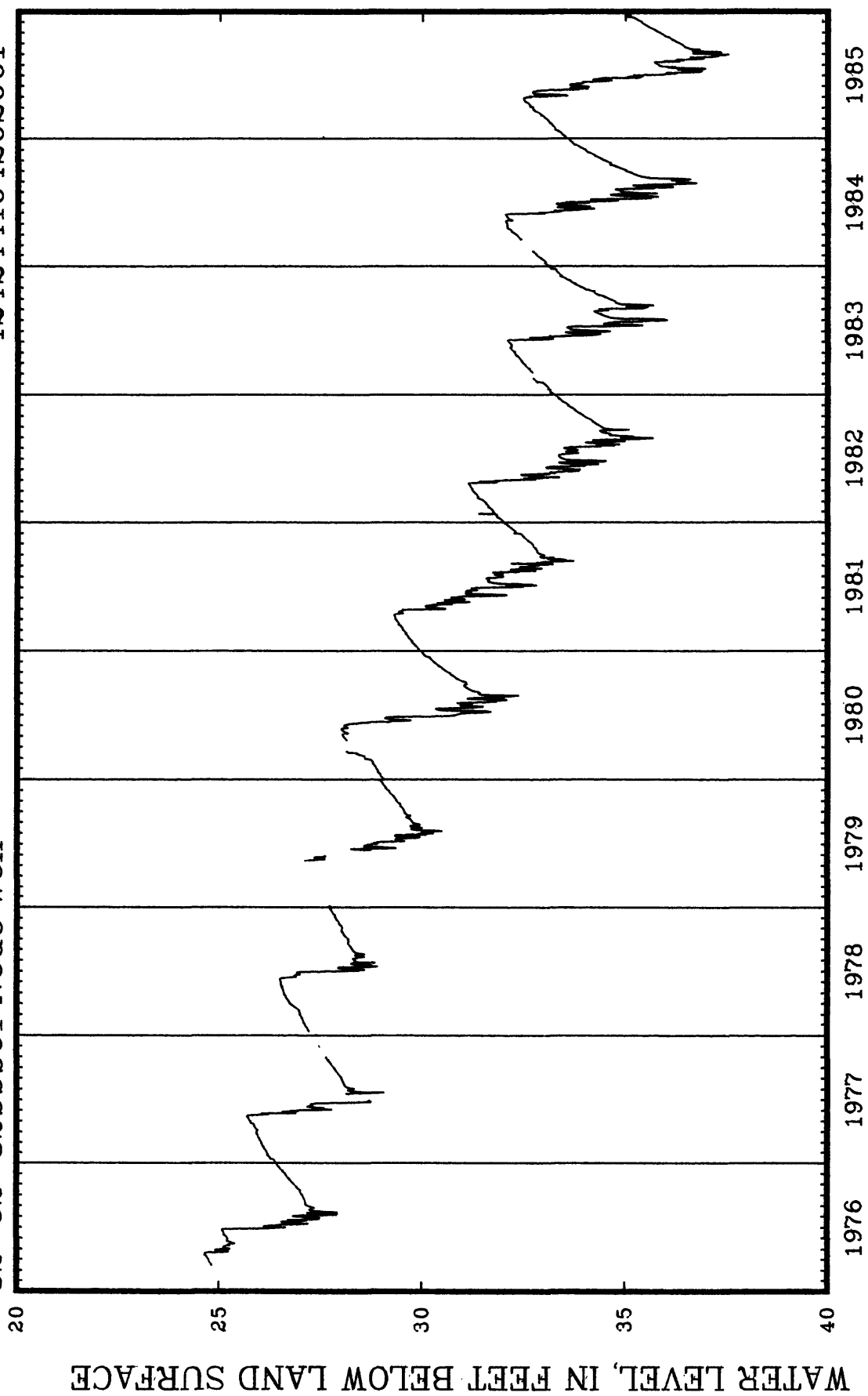
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NIOBRARA COUNTY

32-62-32bbb01 Node Well

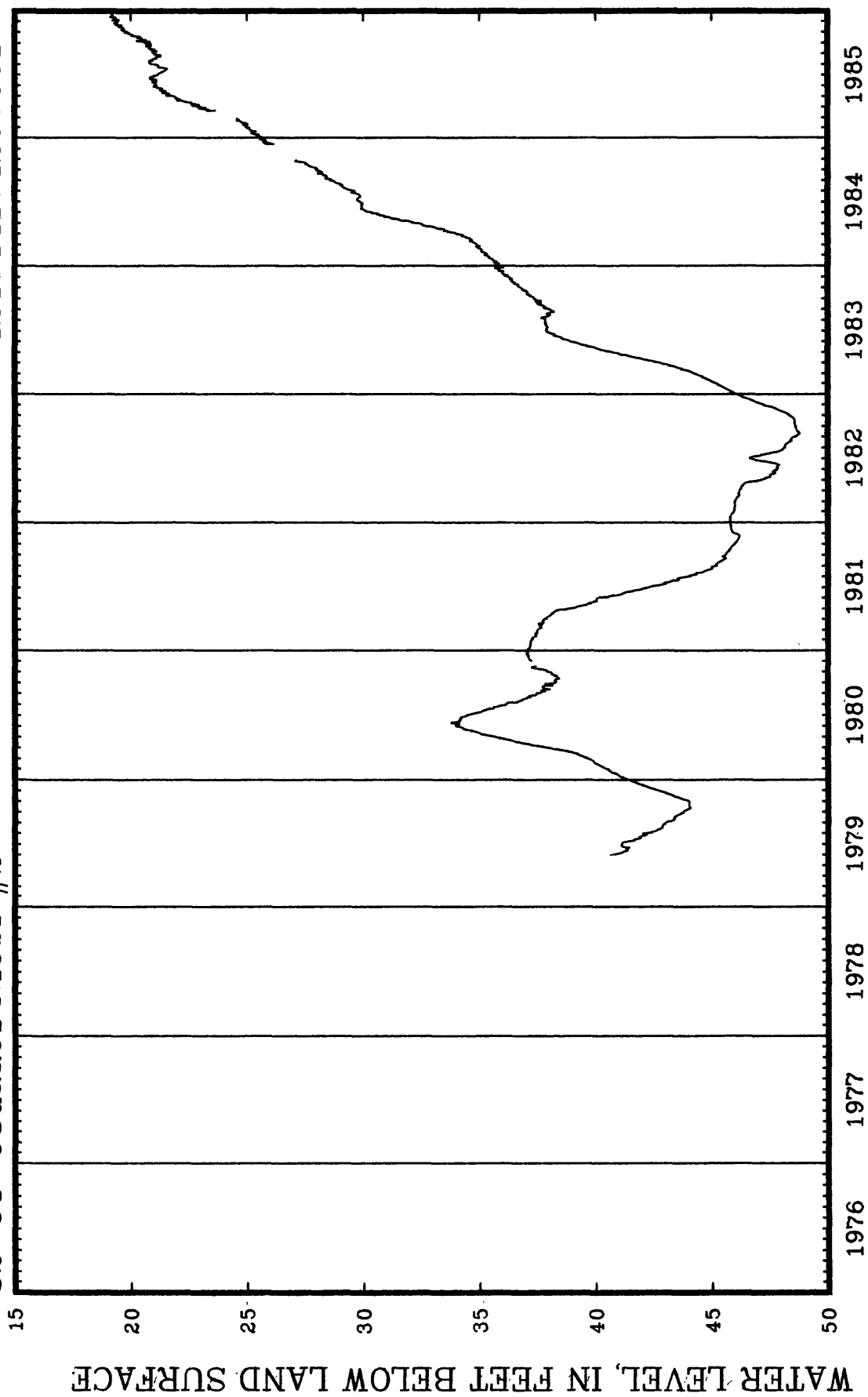
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NIOBRARA COUNTY

32-63-08daa01 Niobr #2

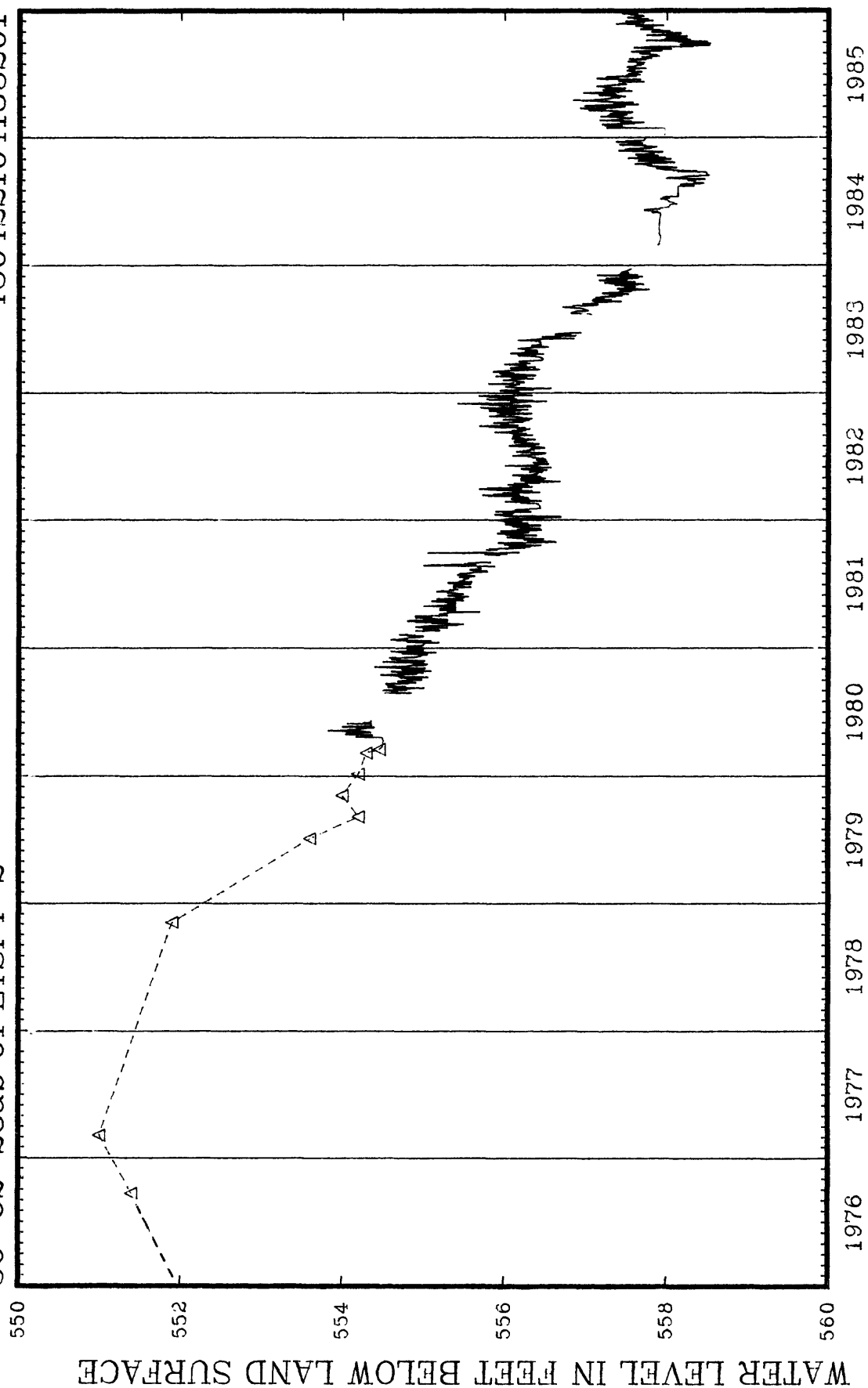
424544104260601



NIOBRARA COUNTY

36-62-28ab 01 ETSI T-2

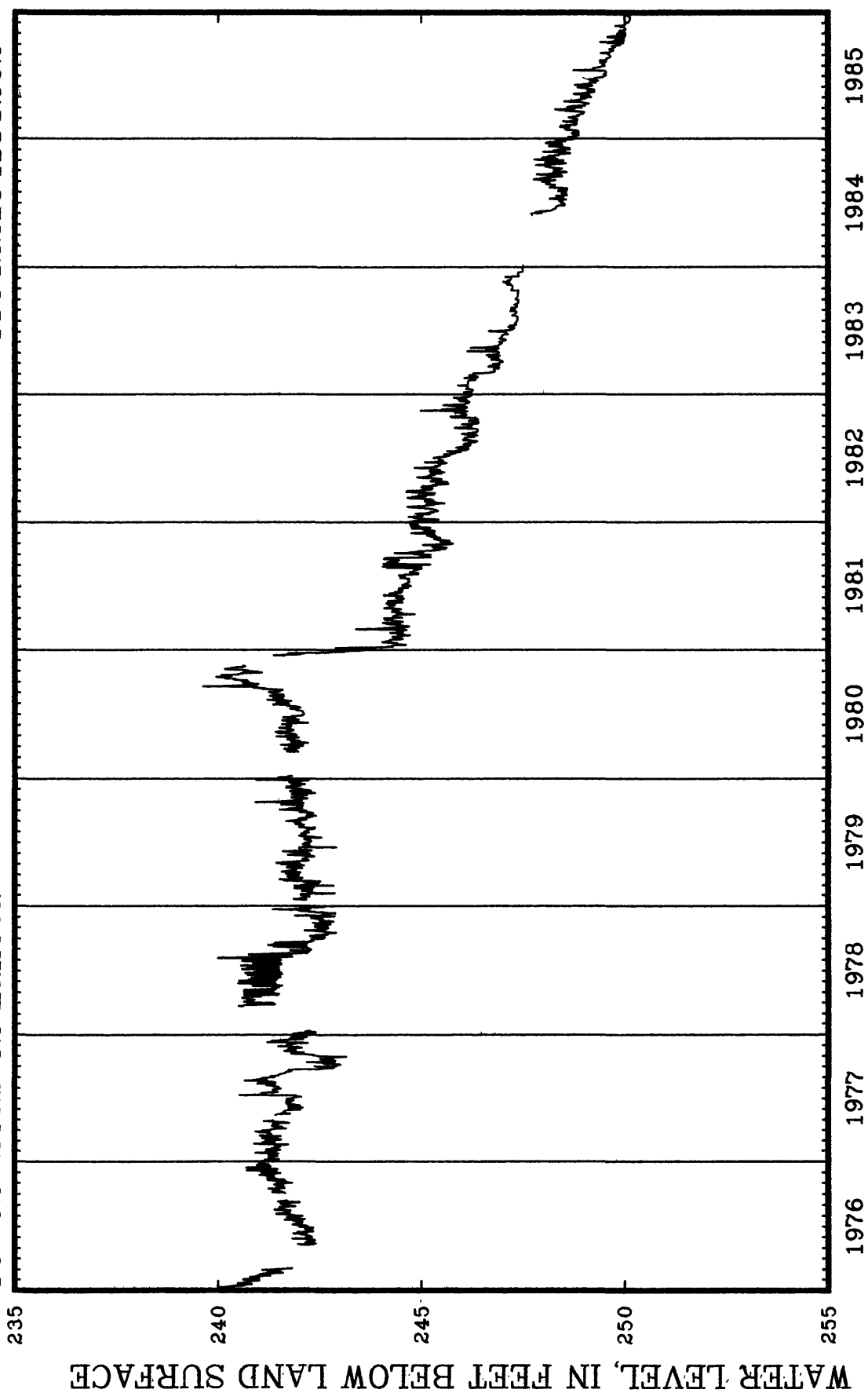
430422104183201



NIOBRARA COUNTY

36-62-28ab 02 Lakota

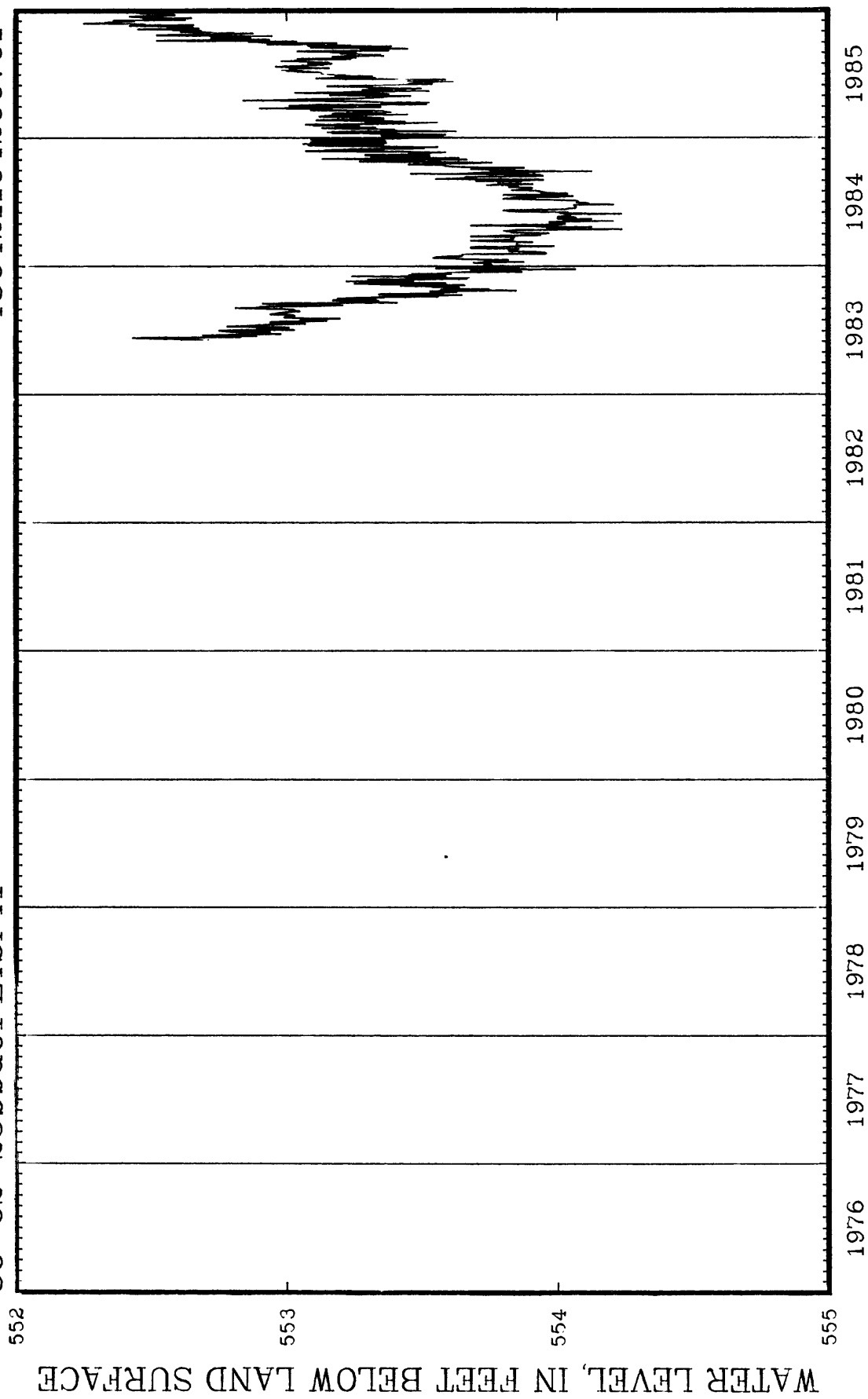
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NIOBRARA COUNTY

36-62-28bbd01 ETSI T1

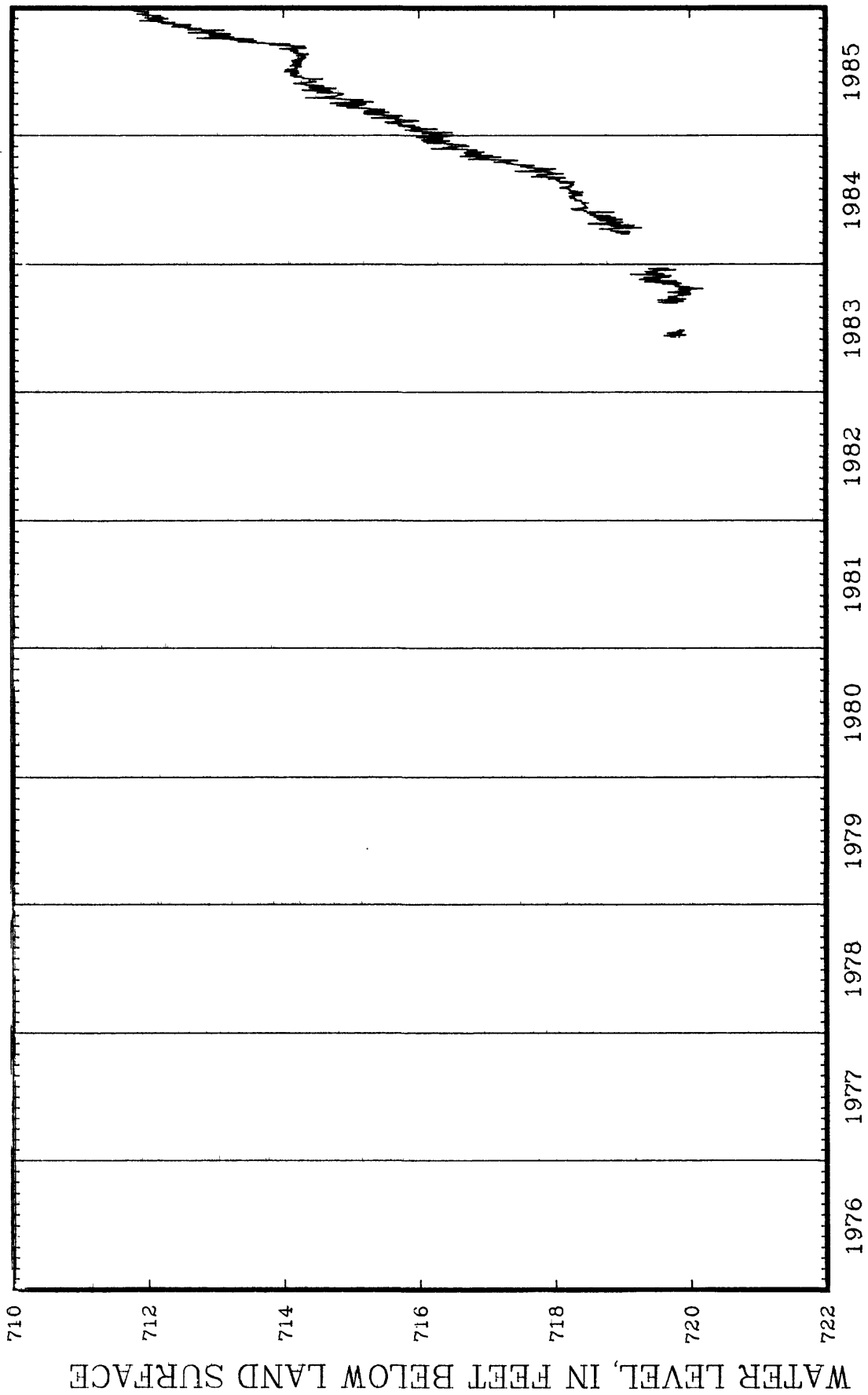
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NIOBARRA COUNTY

38-61-35dca01 ETSI M-1

431321104090001



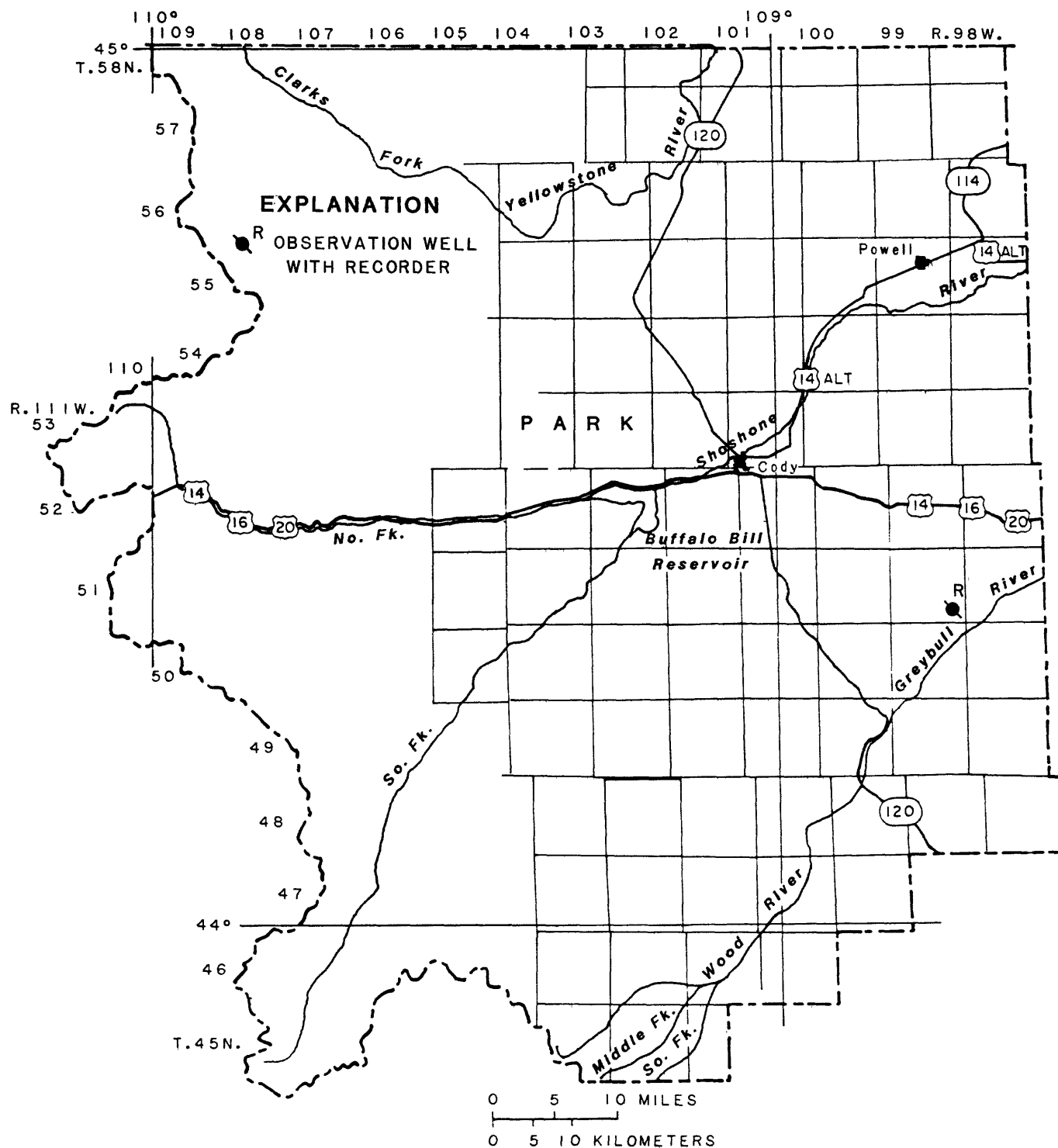


Figure 13.--Location of observation well in Park County, Wyoming.

Record of observation well in Park County, Wyoming, and highest and lowest recorded water levels, in feet below land surface.

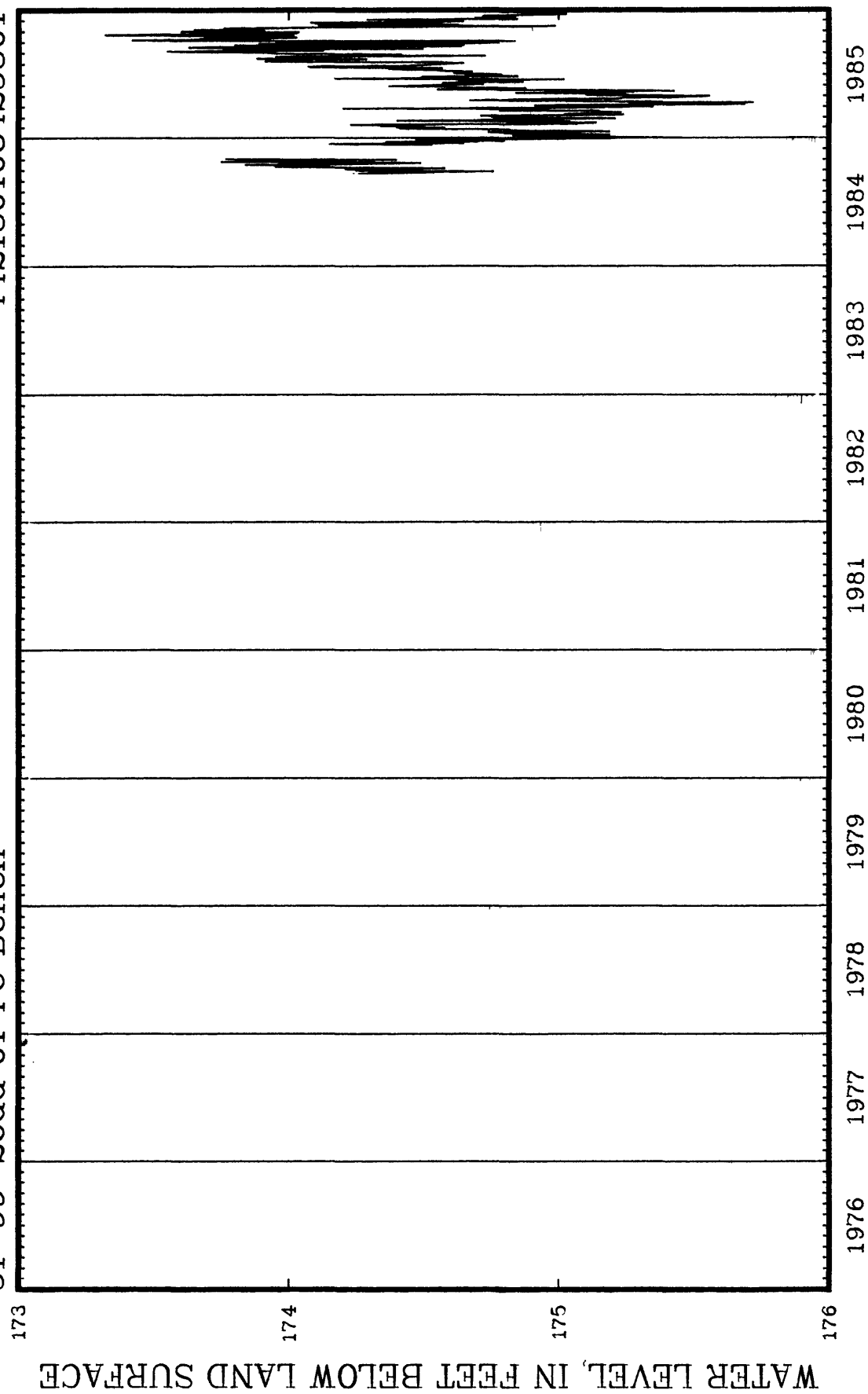
Well number	Well depth (ft)	Use of water	Geologic source	Records available (yr)	Water levels			
					Highest Level (ft)	Month-year	Lowest Level (ft)	Month-year
51-99-26dd 01	564	U	124WLD	1984- ⁴ 85	173.32	10-85	175.72	04-85

⁴ Discontinued

PARK COUNTY

51-99-26dd 01 YU Bench

442130108425301



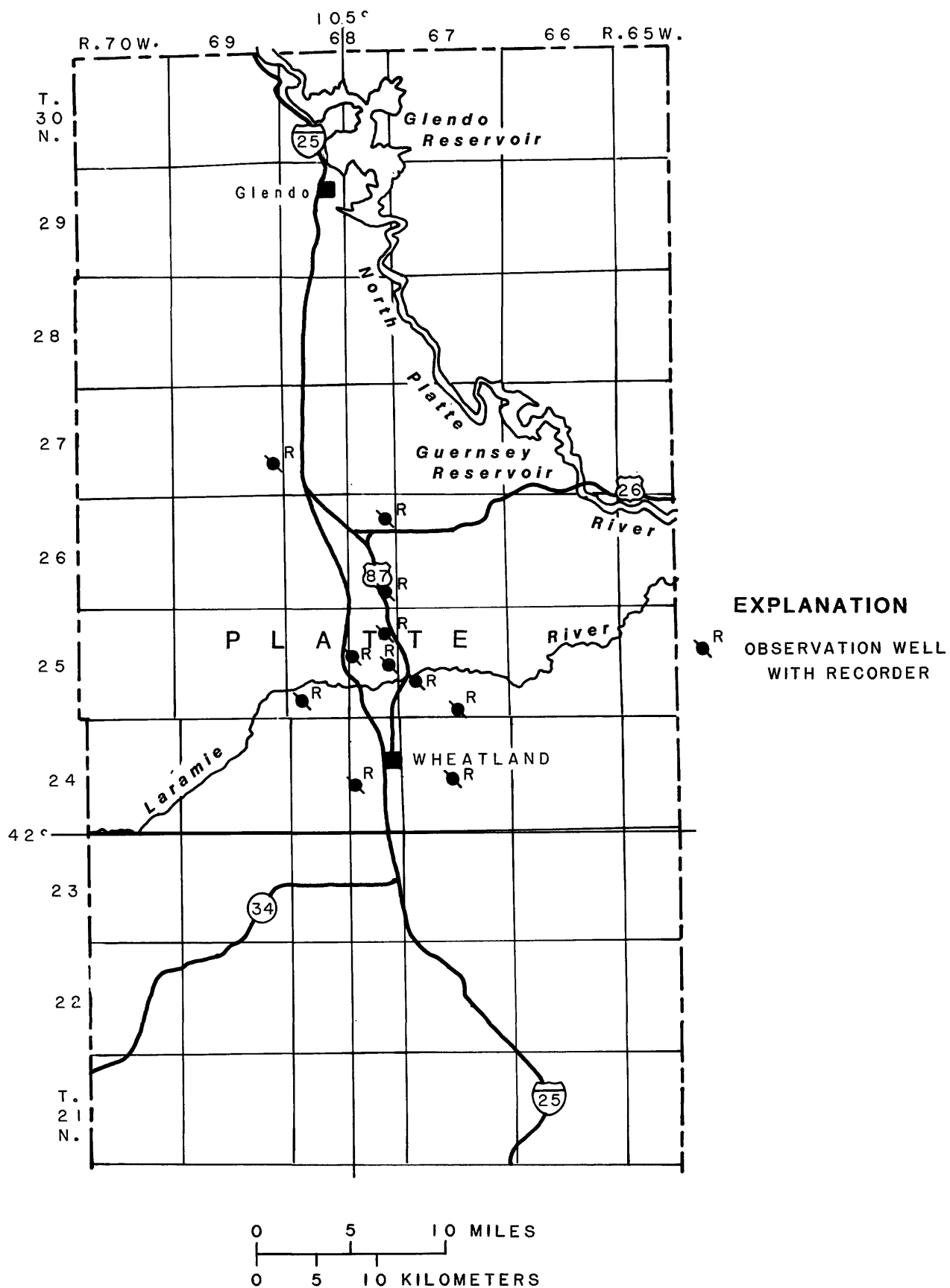


Figure 14.--Location of observation wells in Platte County, Wyoming.

Records of observation wells in Platte County, Wyoming, and highest and lowest recorded water levels, in feet below land surface.

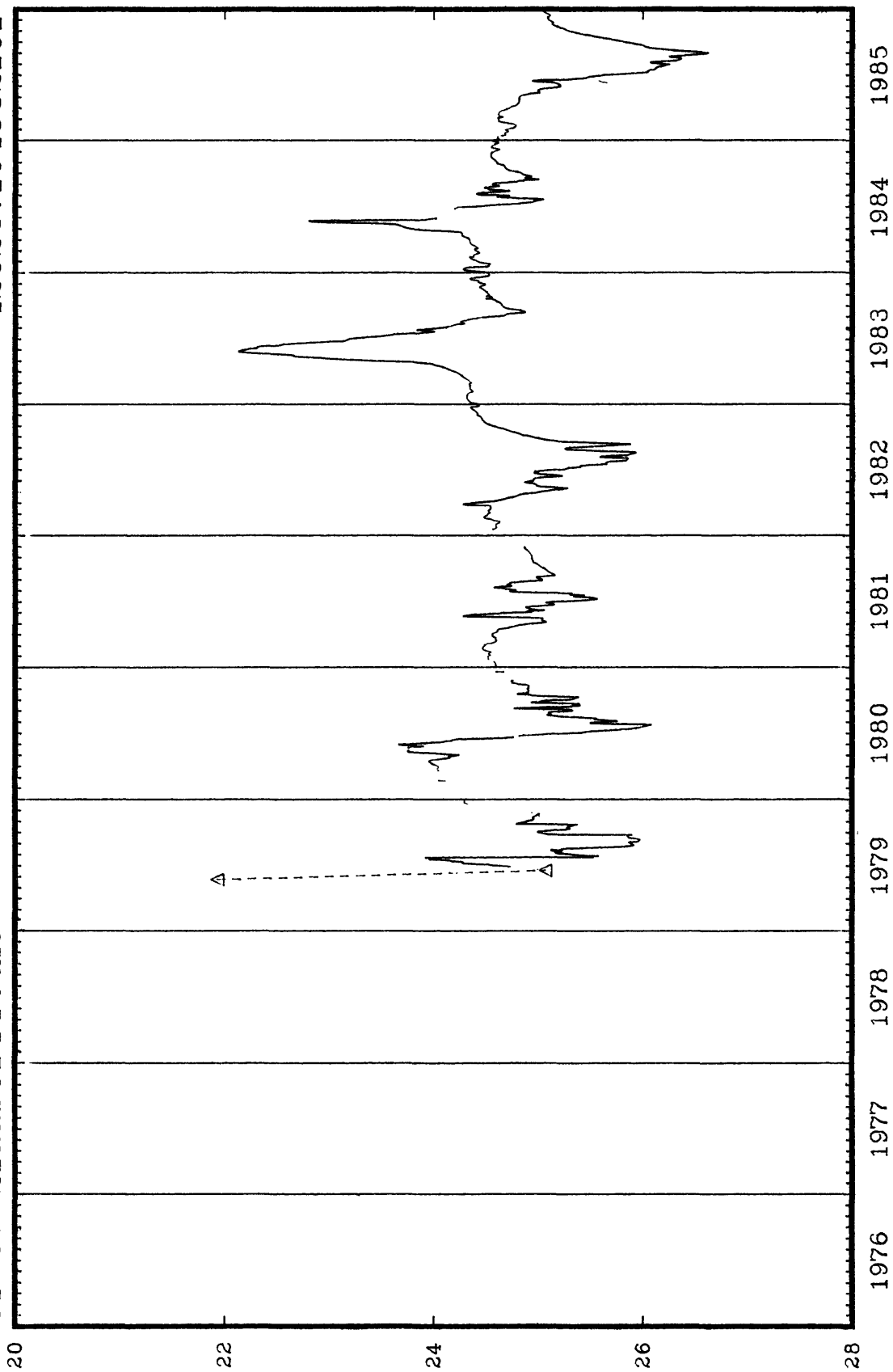
Well number	Well depth (ft)	Use of water	Geologic source	Records available (yr)	Water levels			
					Highest		Lowest	
					Level (ft)	Month-year	Level (ft)	Month-year
24-67-21aab01	41	U	111ALVL	1979-85	121.93	05-79	26.63	09-85
24-68-22aab01	380	U	122ARKR	1980-85	95.74	09-80	103.54	12-85
25-67-19dda01	760	U	122ARKR	1979-85	47.88	11-85	81.04	07-85
34ccd01	380	U	122ARKR	1980-85	80.56	06-85	87.35	09-80
25-68-12dda01	100	M	122ARKR	1980-85	13.30	06-84	20.55	10-81
15bbd01	220	U	122ARKR	1980-85	42.50	02-81	63.32	06-85
24aad01	240	U	122ARKR	1980-85	70.11	12-85	72.11	04-81
31aaa01	400	U	122ARKR	1979-85	20.42	10-84	28.93	08-82
26-68-12cbd01	320	U	122ARKR	1980-85	140.06	05-85	153.20	10-80
36bbb01	200	U	122ARKR	1981-85	147.86	12-85	153.41	08-82
27-69-25abc01	200	U	123WRVR	1981-85	3.78	03-82	27.03	05-82

¹ From hand-measured data

PLATTE COUNTY

24-67-21aab01 Preuit

420237104532101

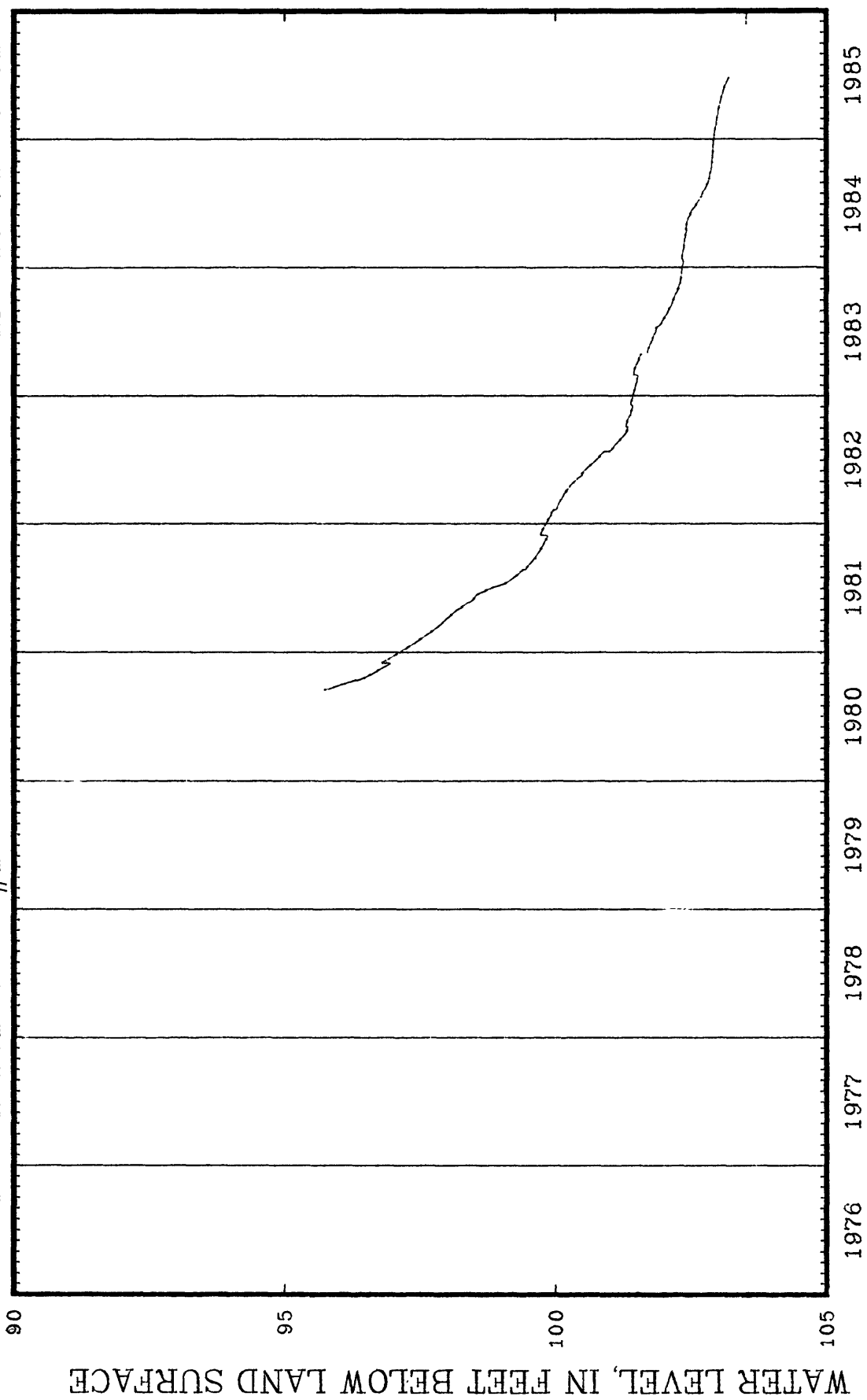


WATER LEVEL IN FEET BELOW LAND SURFACE

PLATTE COUNTY

24-68-22aab01 Platte #1

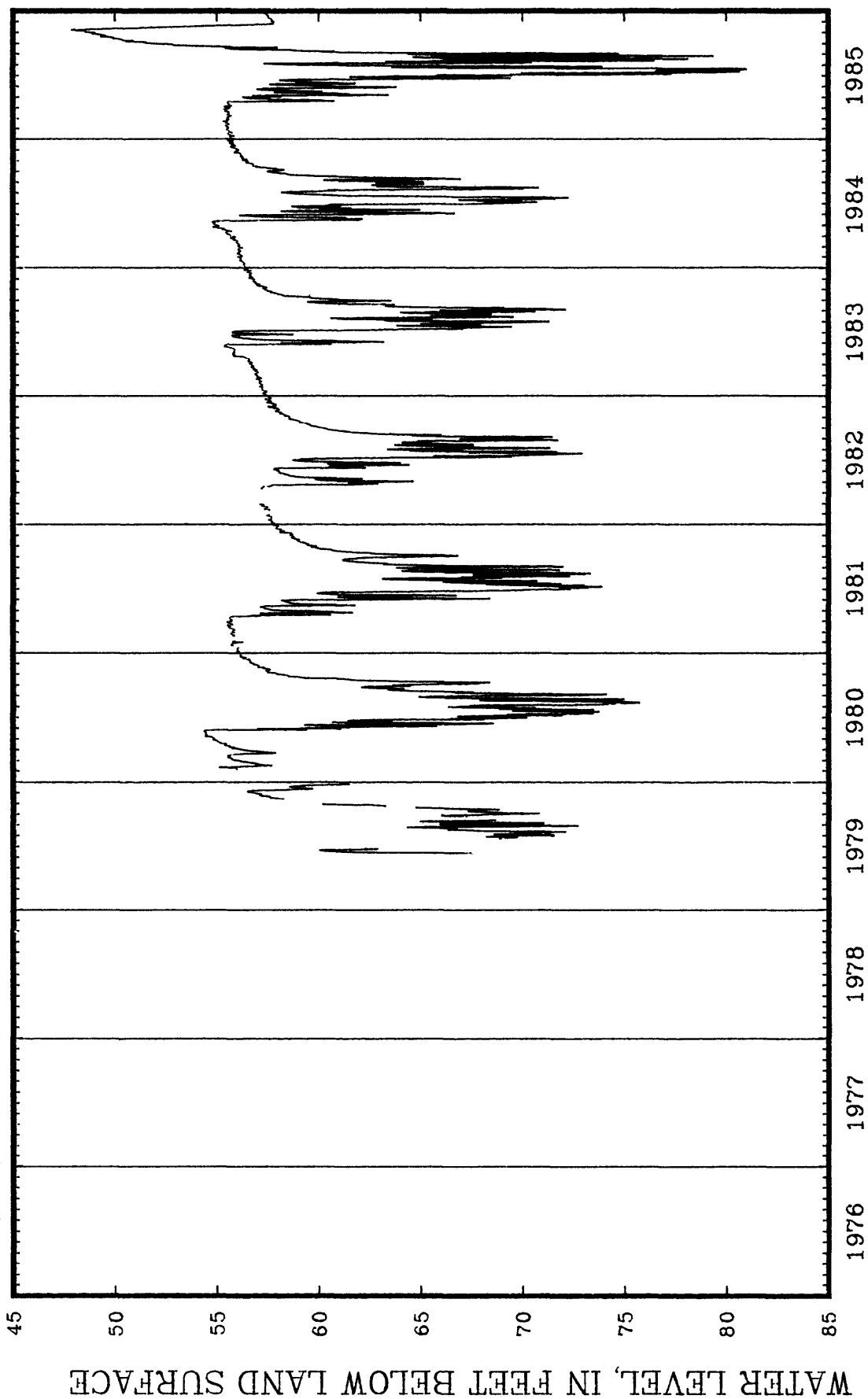
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PLATTE COUNTY

25-67-19dda01 Wilhelm

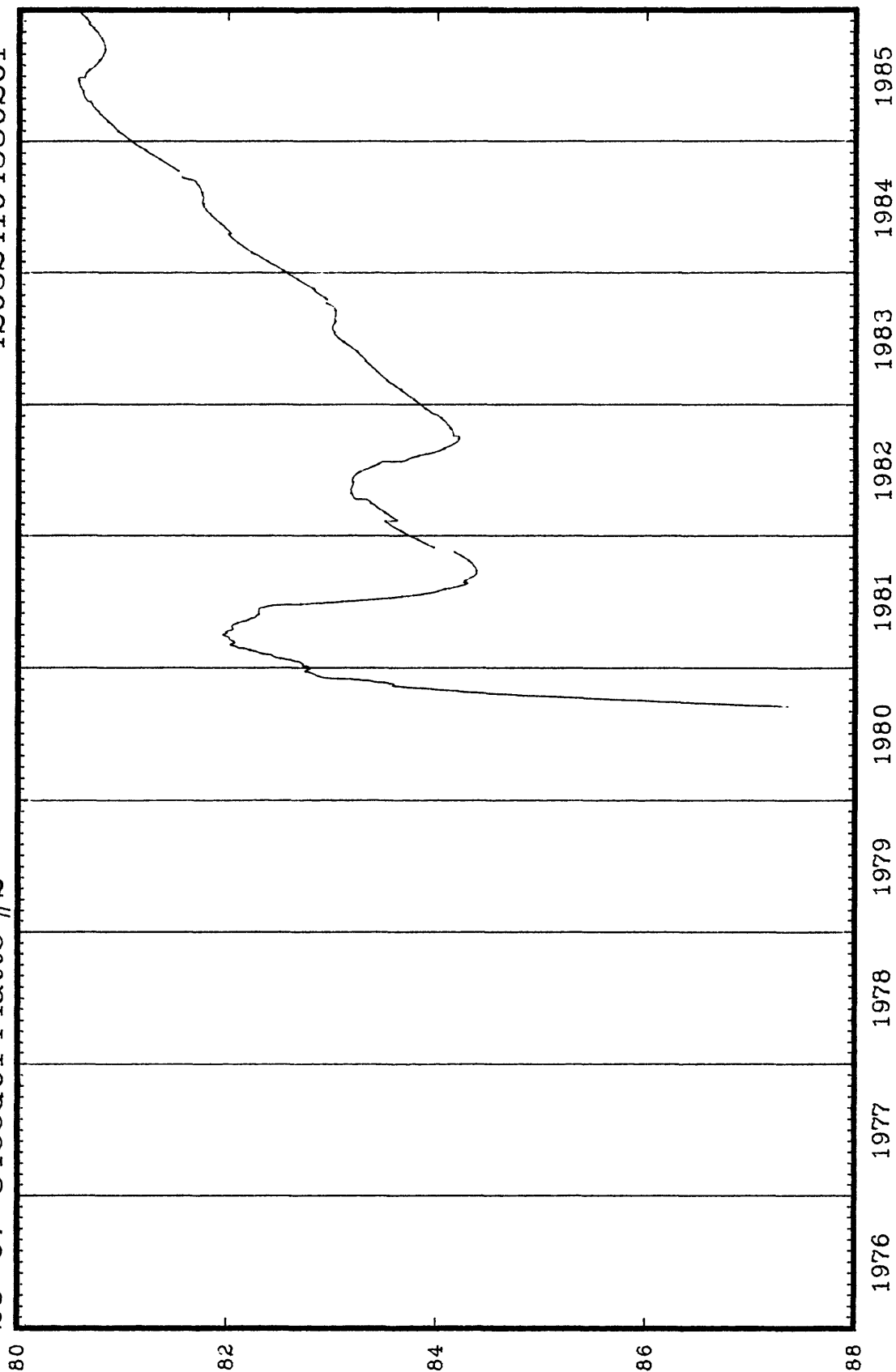
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PLATTE COUNTY

25-67-34ccd01 Platte #2

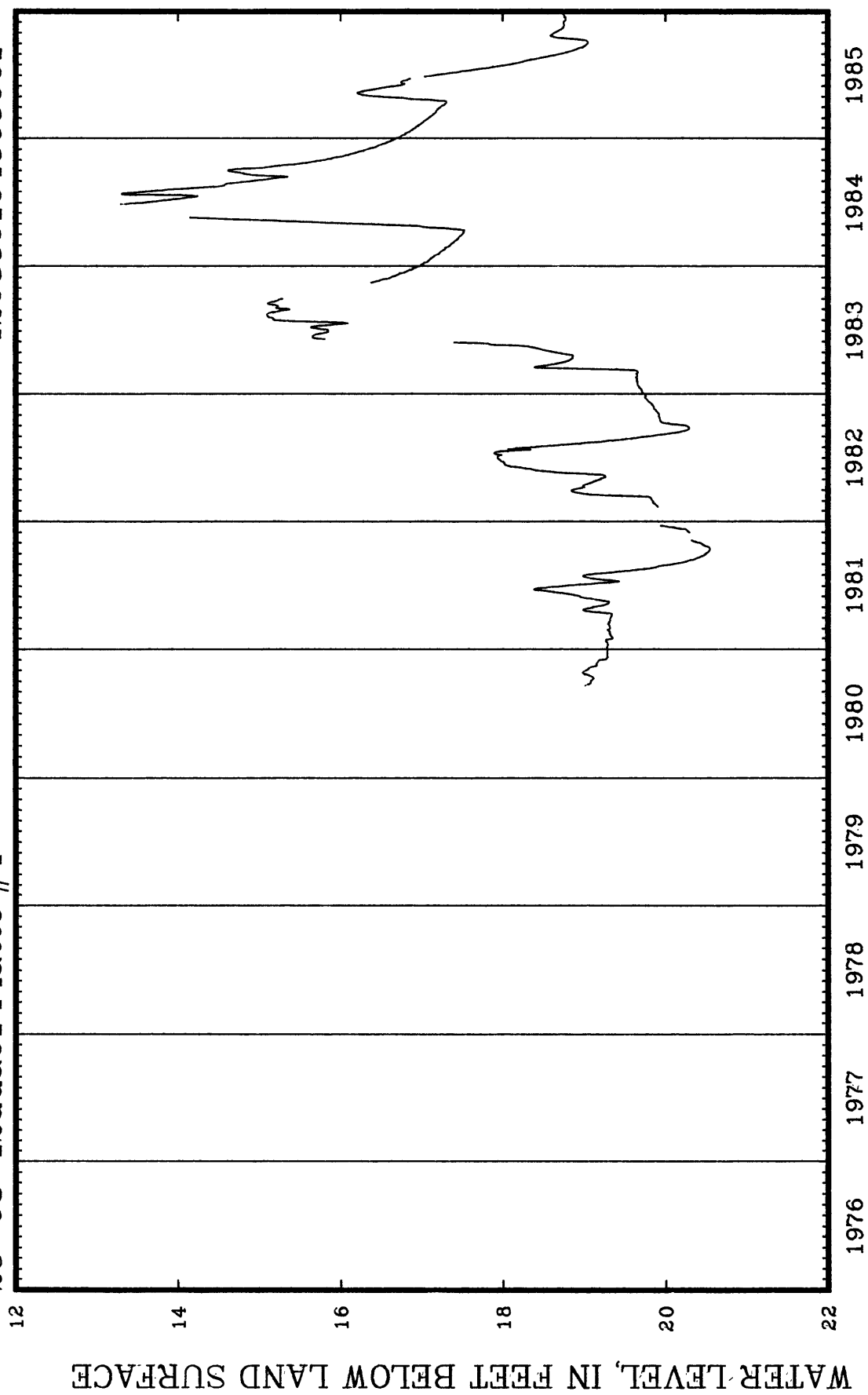
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PLATTE COUNTY

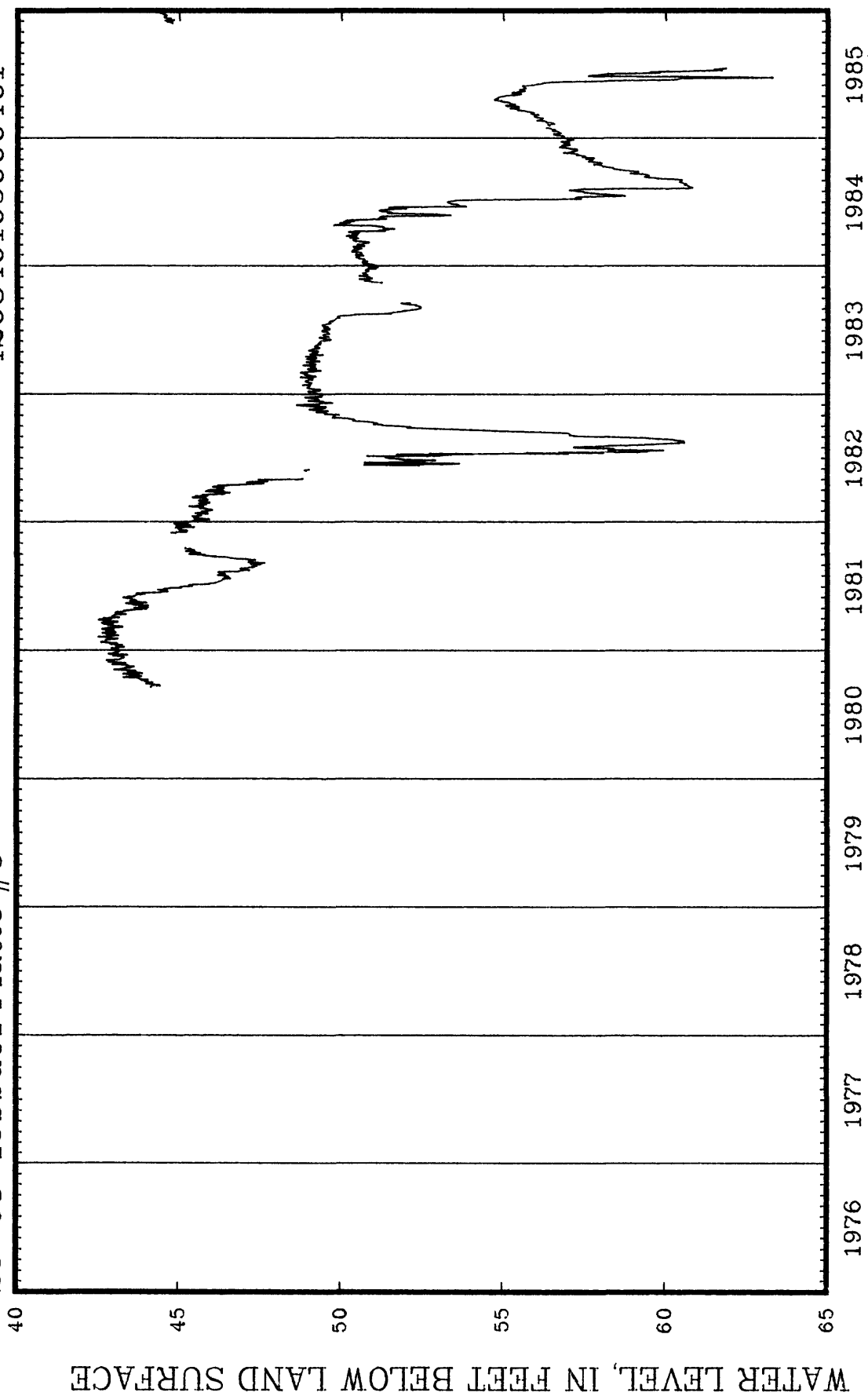
25-68-12dda01 Platte #4

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PLATTE COUNTY

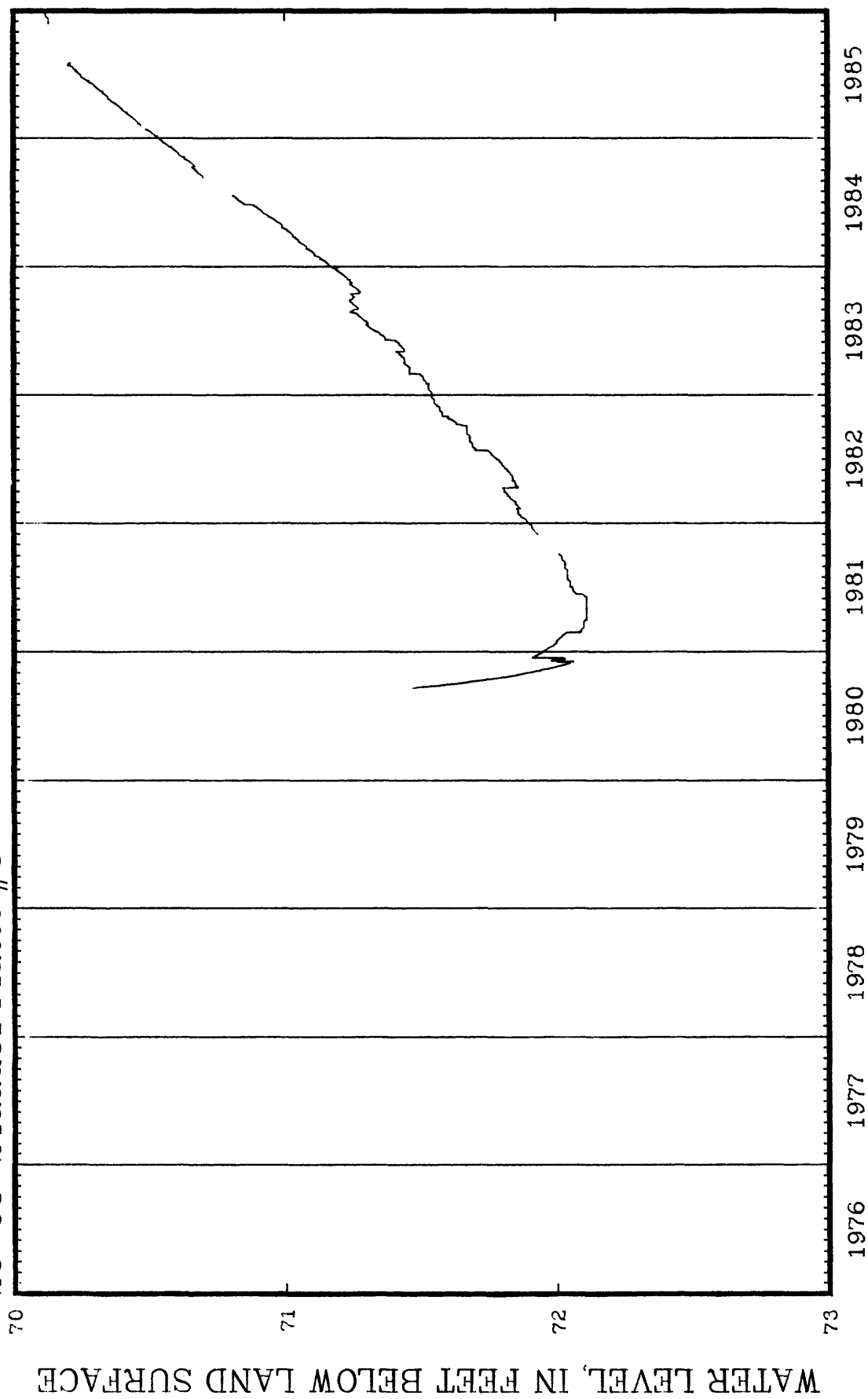
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PLATTE COUNTY

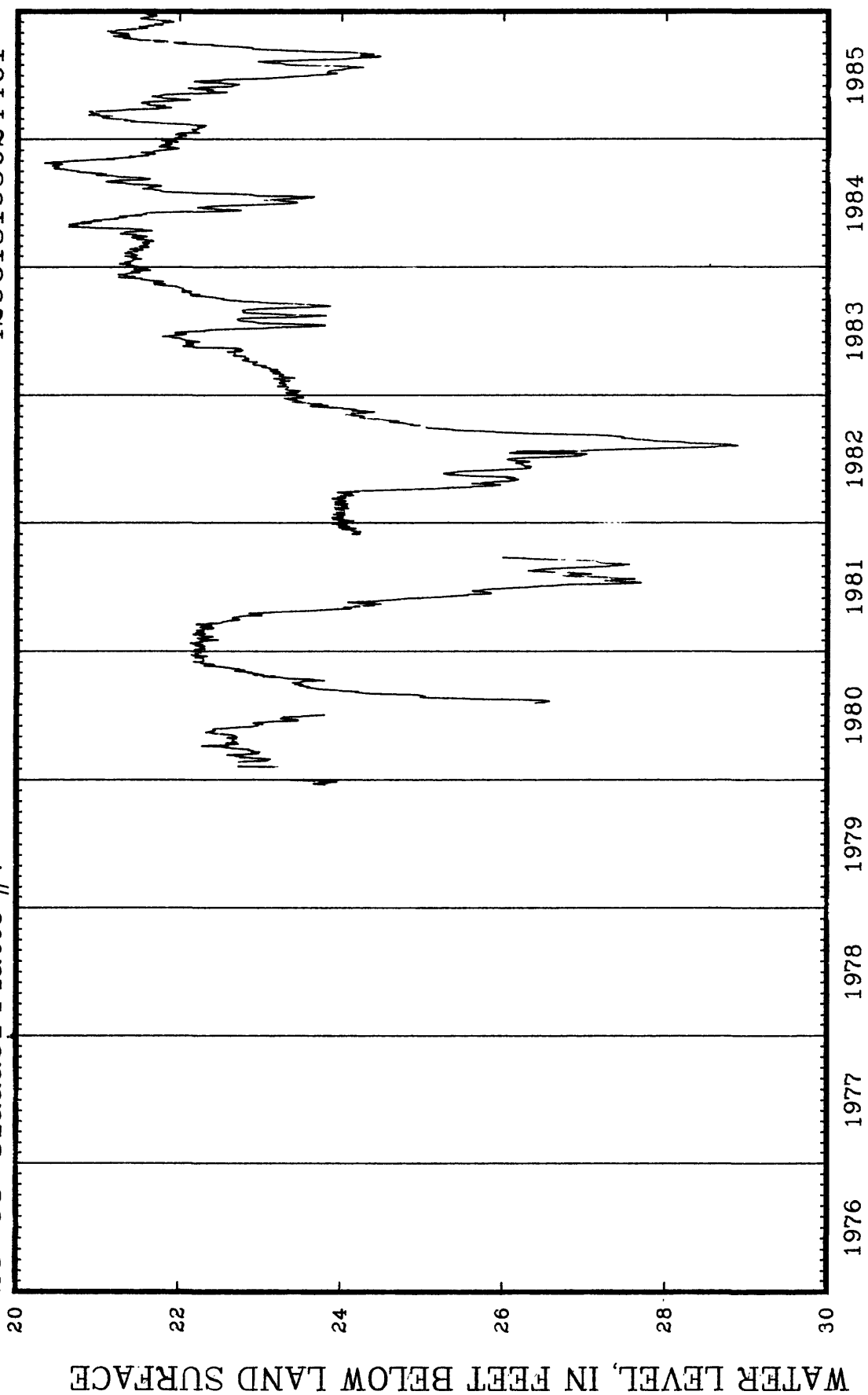
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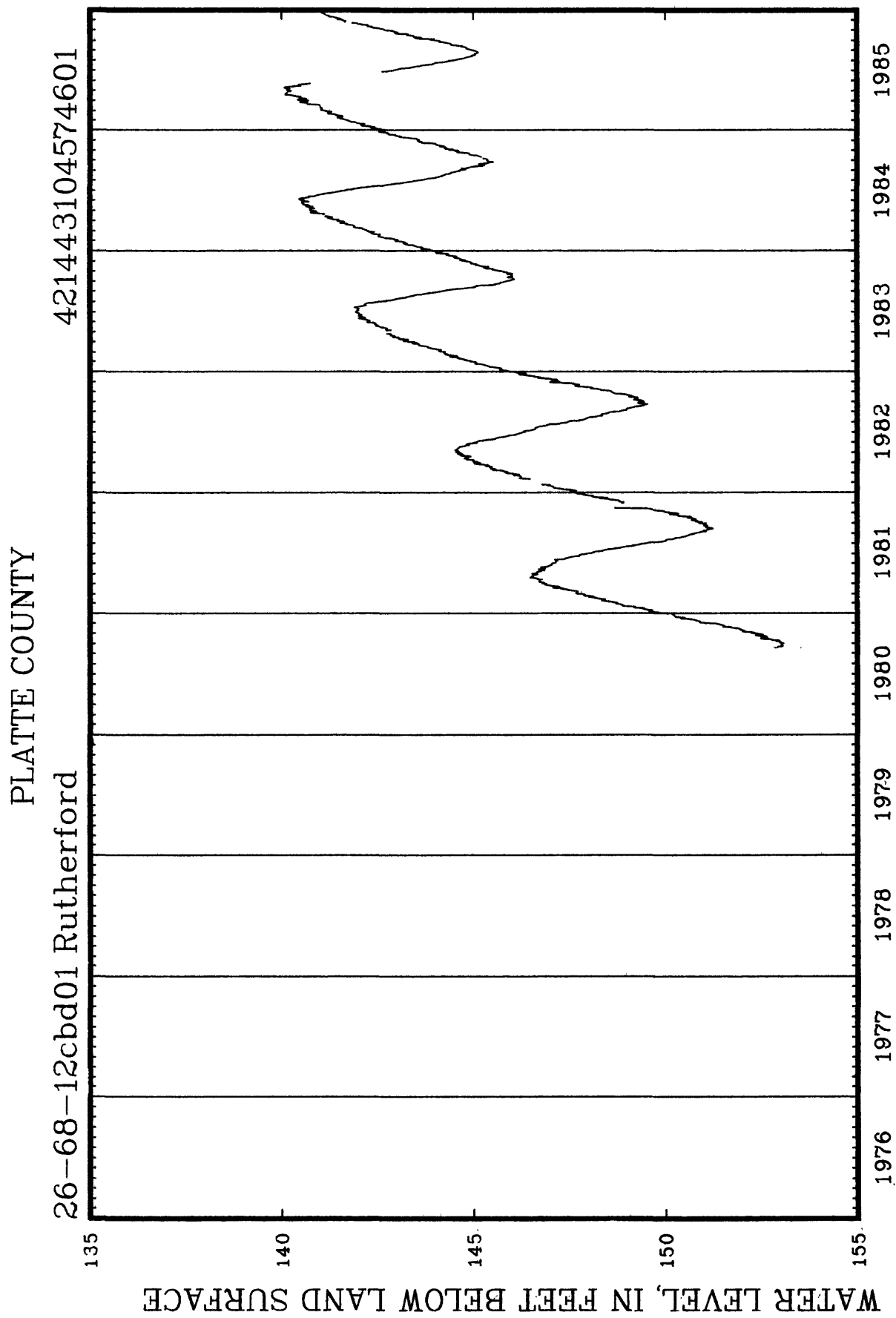
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PLATTE COUNTY

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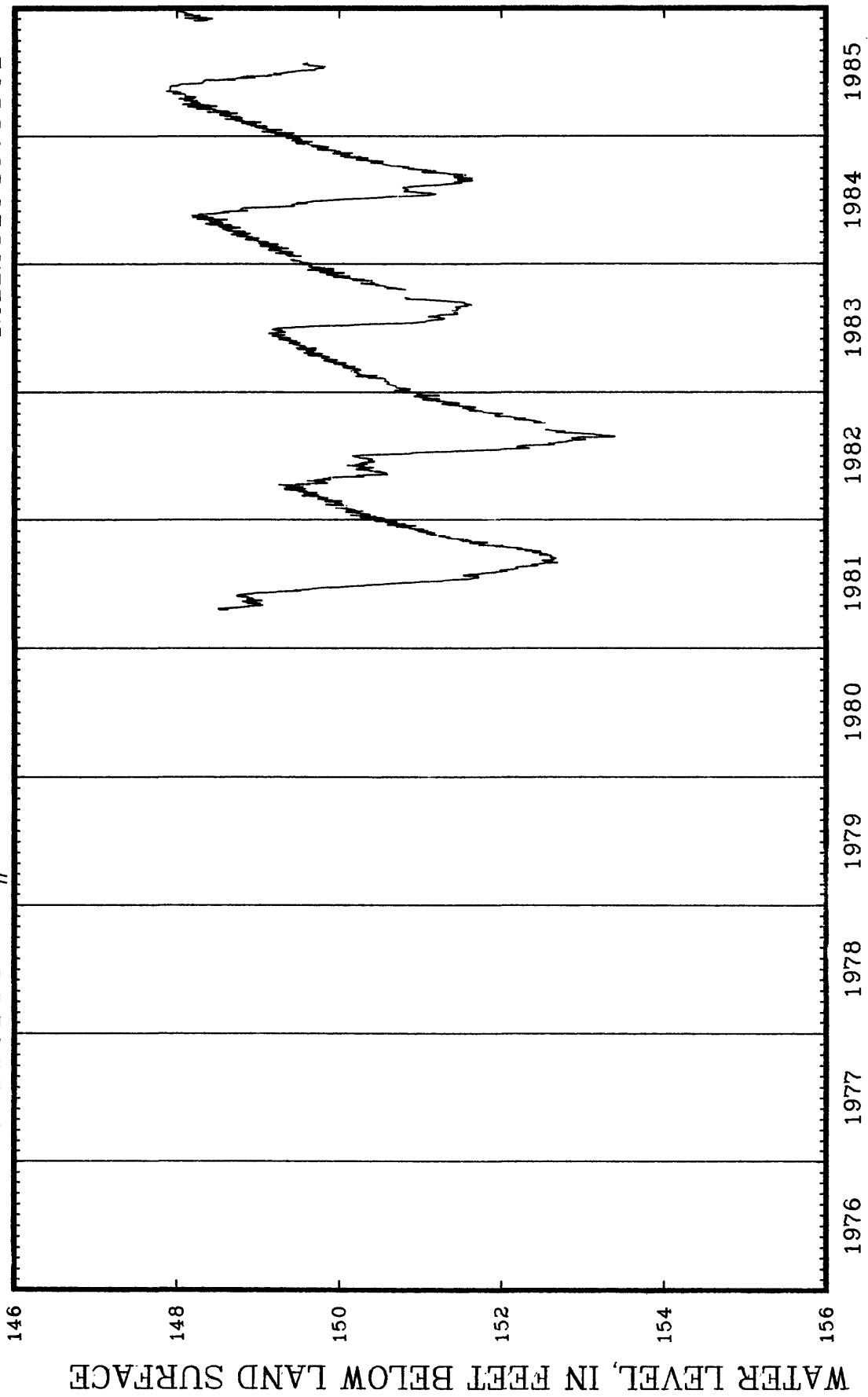




PLATTE COUNTY

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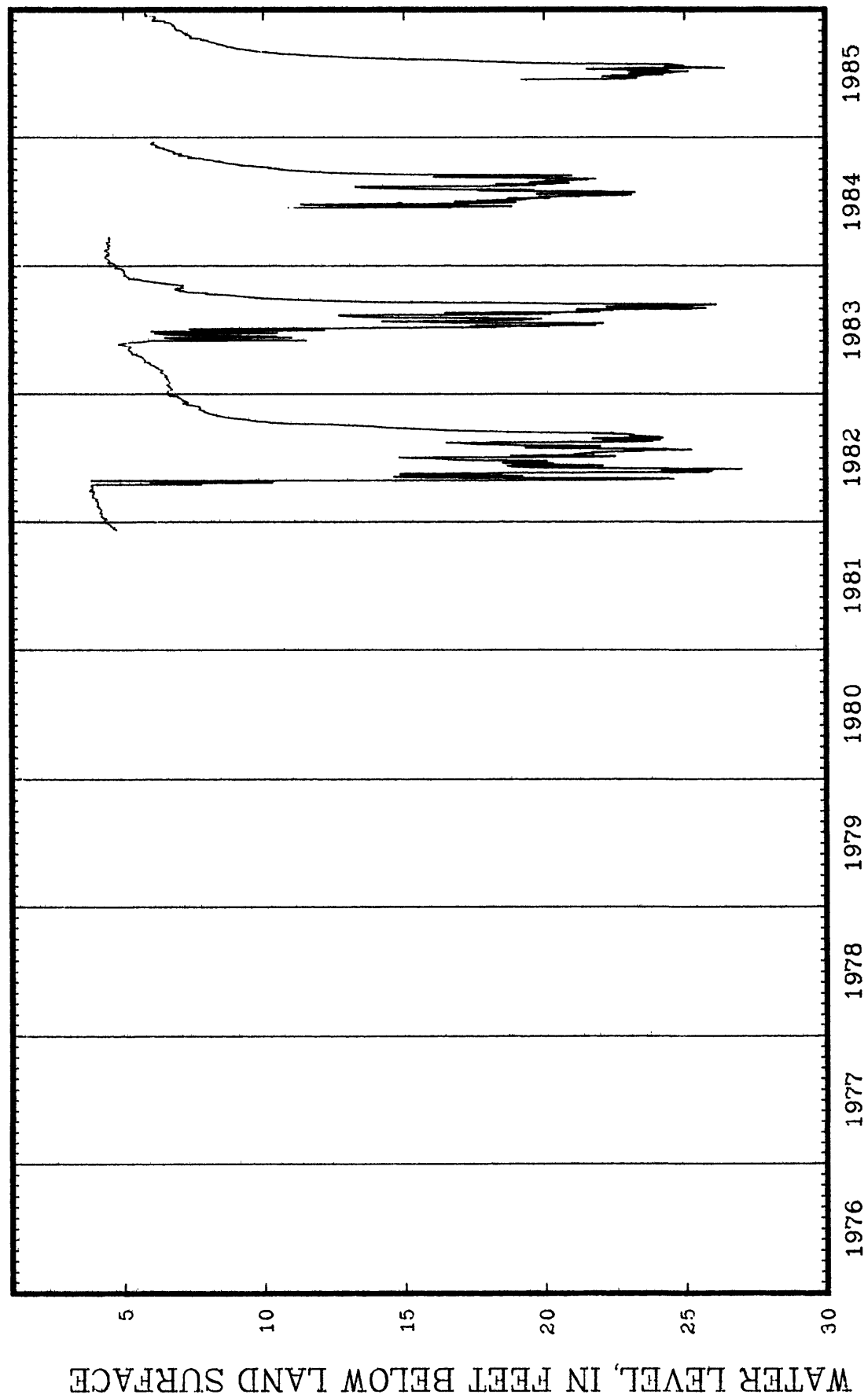
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PLATTE COUNTY

27-69-25abc01 Cotton

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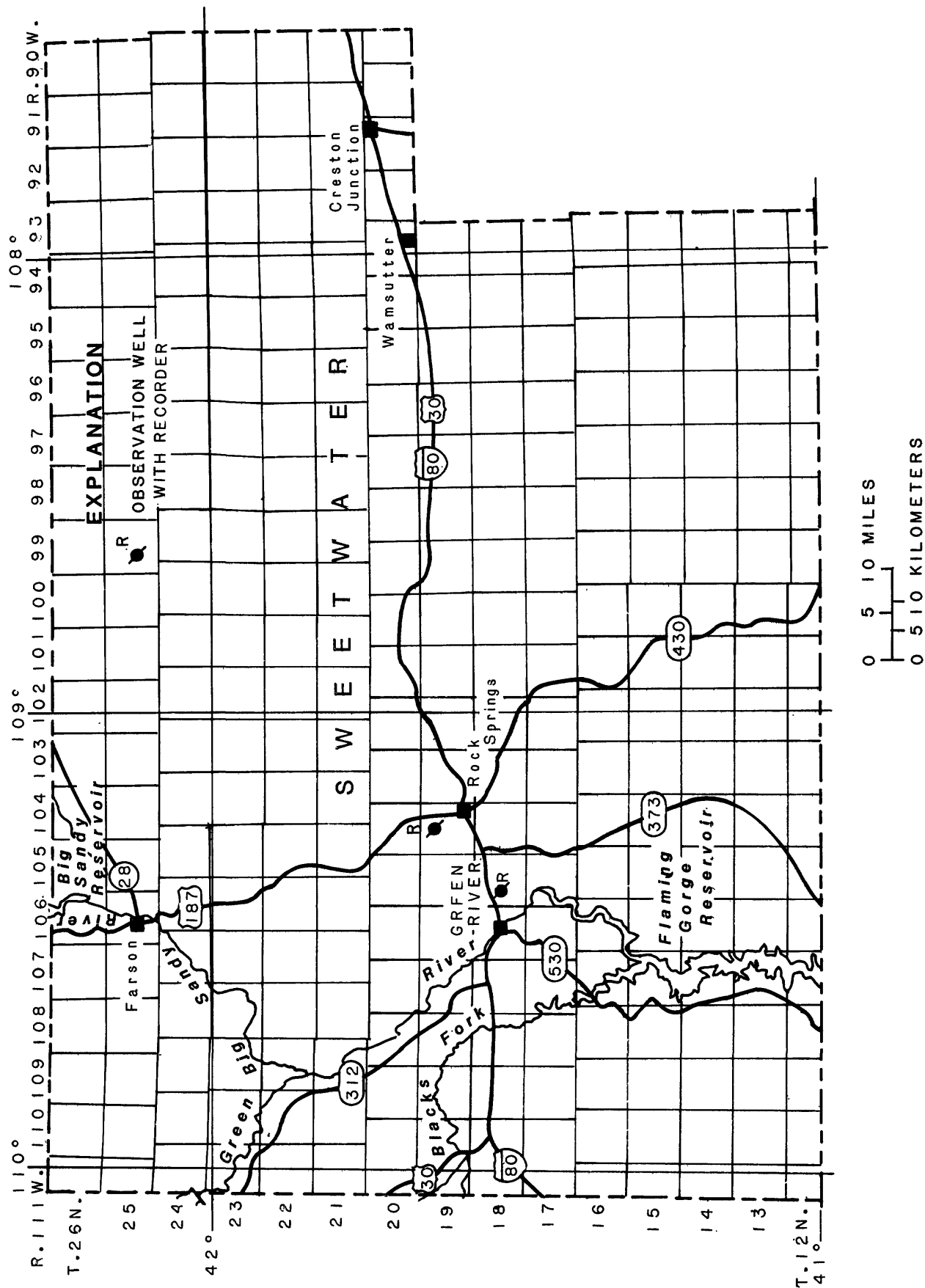


Figure 15.--Location of observation wells in Sweetwater County, Wyoming.

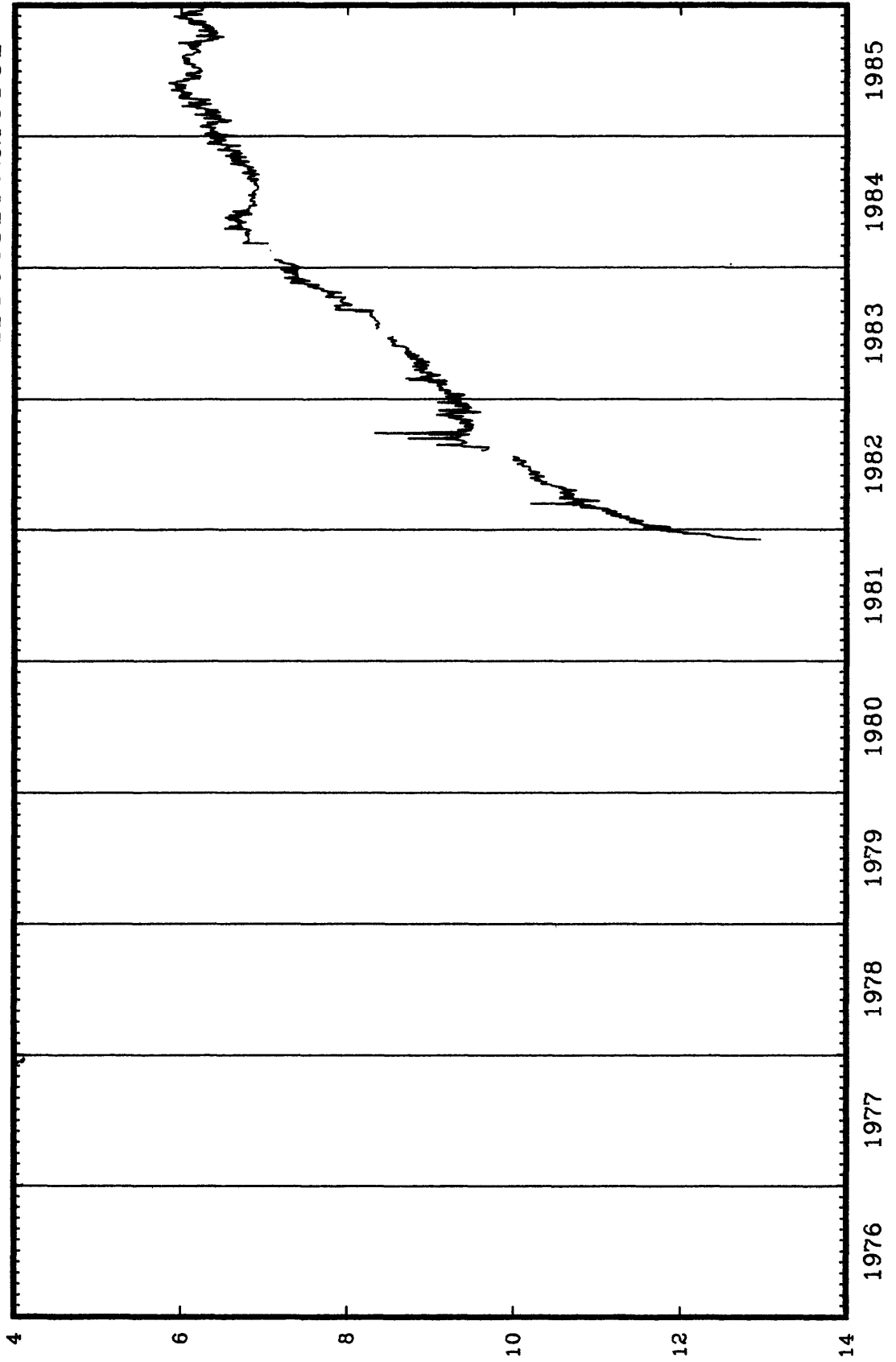
Records of observation wells in Sweetwater County, Wyoming, and highest and lowest recorded water levels, in feet below land surface.

Well number	Well depth (ft)	Use of water	Geologic source	Records available (yr)	Water levels			
					Highest Level (ft)	Highest Month-year	Lowest Level (ft)	Lowest Month-year
18-106-16ada01	1,030	U	124WSTC	1981-85	5.85	05-85	12.97	12-81
19-105-10bbb01	240	U	-----	1984-85	61.27	11-85	62.36	12-84

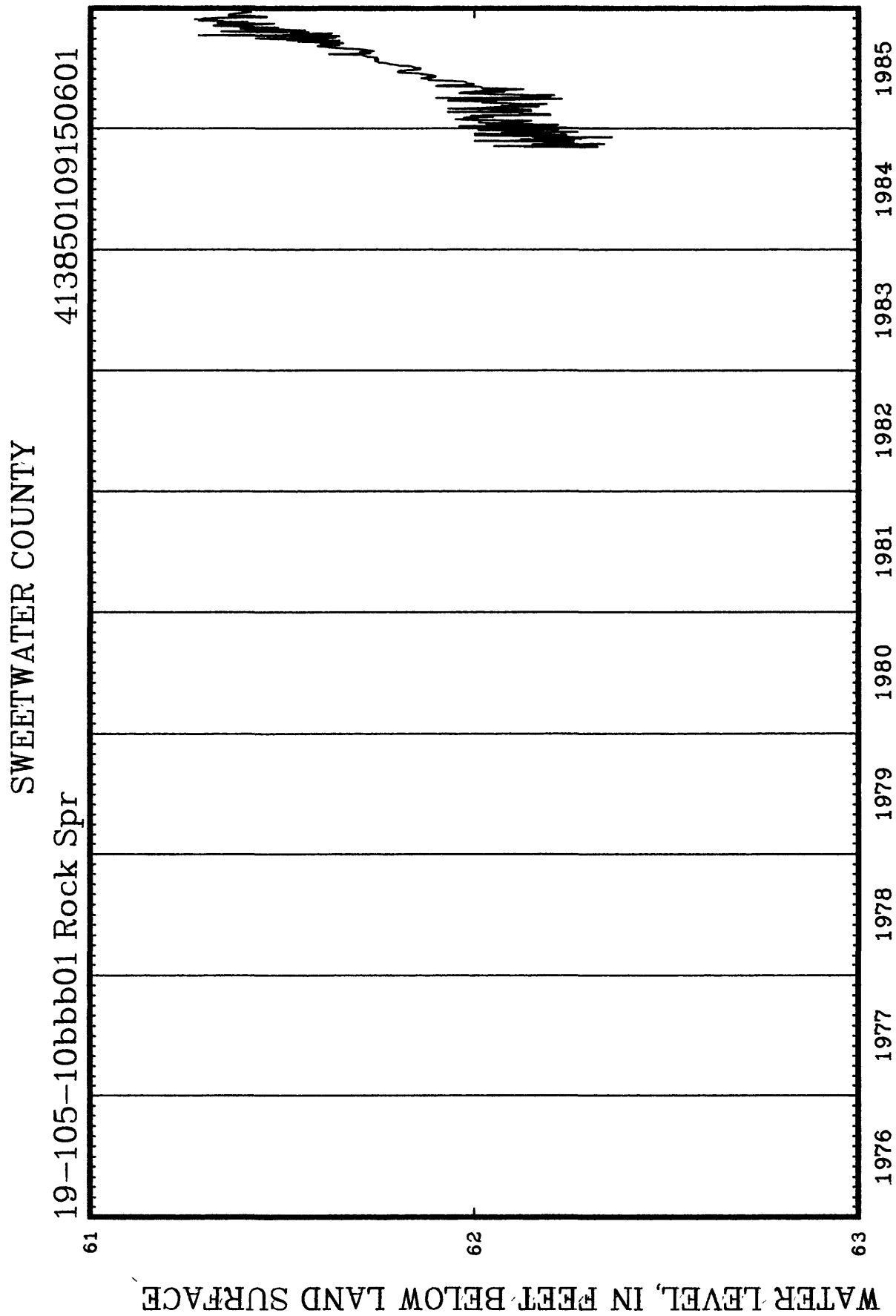
SWEETWATER COUNTY

18-106-16ada01-Green R

413228109220801



WATER LEVEL, IN FEET BELOW LAND SURFACE



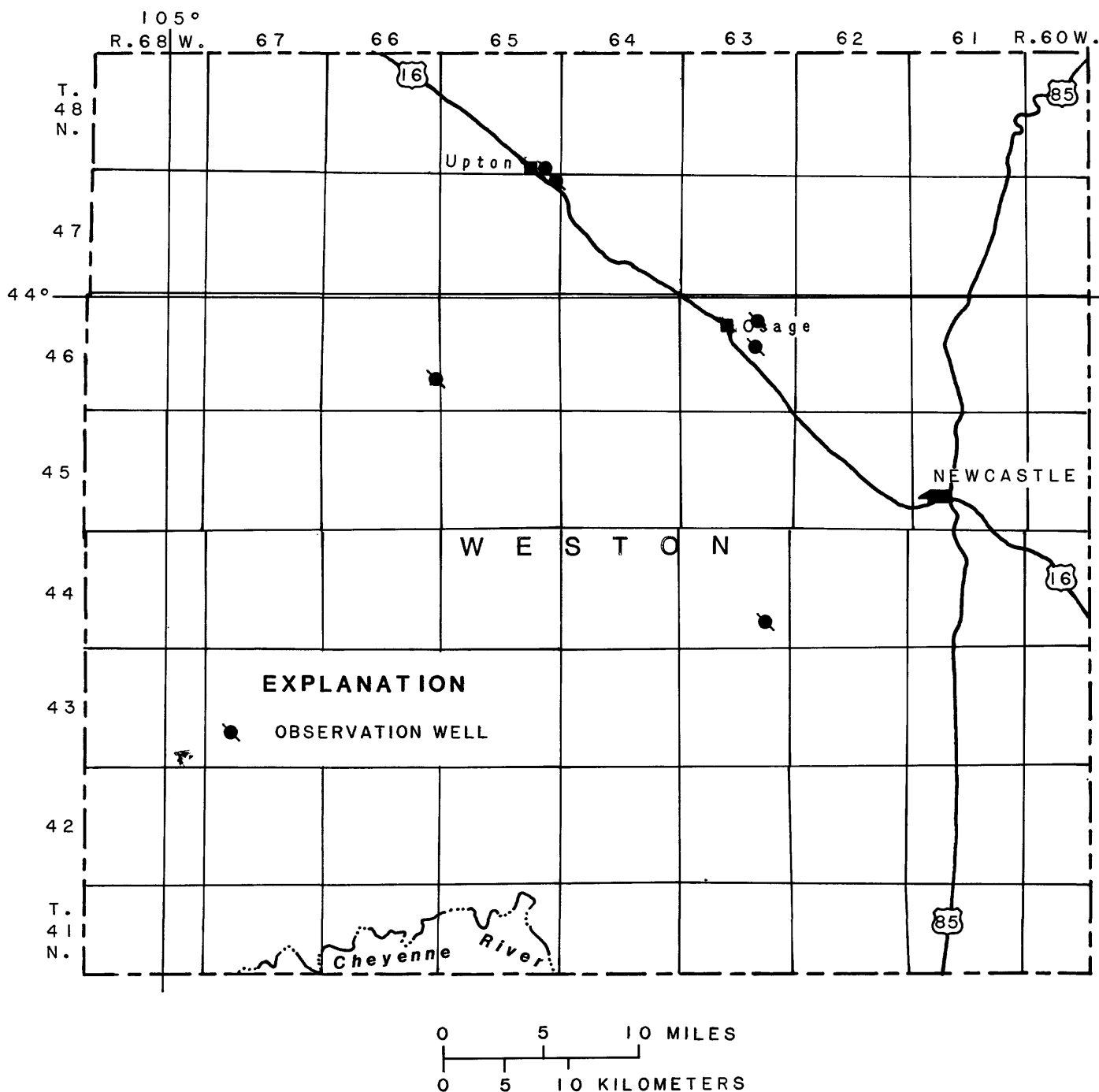


Figure 16.--Location of observation wells in Weston County, Wyoming.

Records of observation wells in Weston County, Wyoming, and highest and lowest recorded water levels, in feet below land surface.

Well number	Well depth (ft)	Use of water	Geologic source	Records available (yr)	Water levels			
					Highest Level (ft)	Month-year	Lowest Level (ft)	Month-year
44-63-26cac01	6,881	H,S,I	331MDSN	1982-85	1,163.48	06-84	1,3204.10	08-83
46-63-10cda01	3,135	N	331MDSN	1982-85	1,5313.07	03-82	1,3262.25	09-84
46-63-15add01	3,135	N	331MDSN	1982-85	1,5354.25	03-82	1,3325.38	04-85
46-66-25dbb01	8,780	U	331MDSN	1982-85	1,075.05	01-82	1,081.75	09-85
47-65-01bab01	3,310	P	331MDSN	1983-84	153.54	04-83	1,370.90	08-83
48-65-35ccb01	3,193	P	331MDSN	1982-85	110.25	04-84	1,3218.50	07-83

¹ From hand-measured data

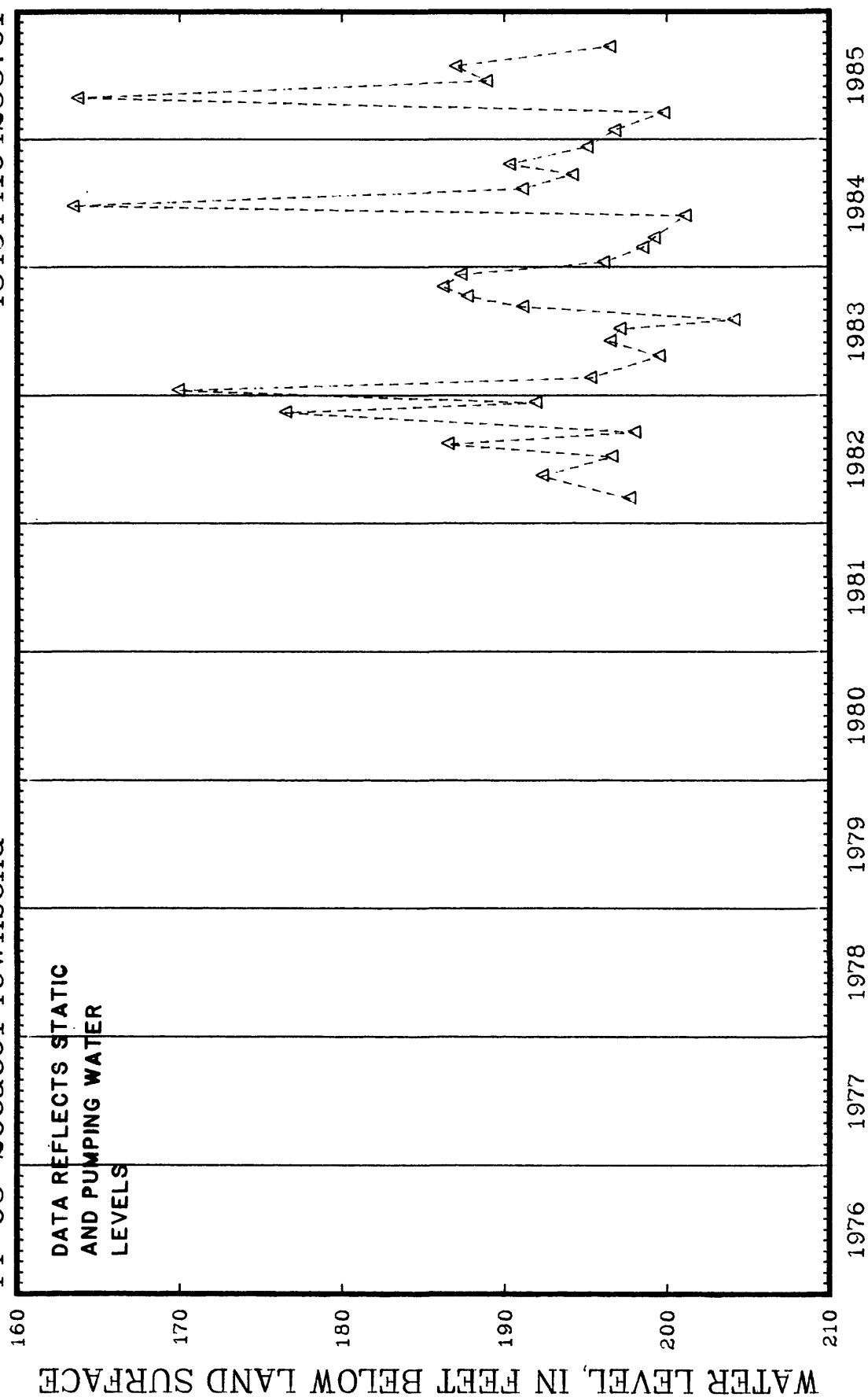
³ Well being pumped

⁵ Artesian well; highest level is shut-in pressure converted to feet above land surface.

WESTON COUNTY

44-63-26cac01 Townsend

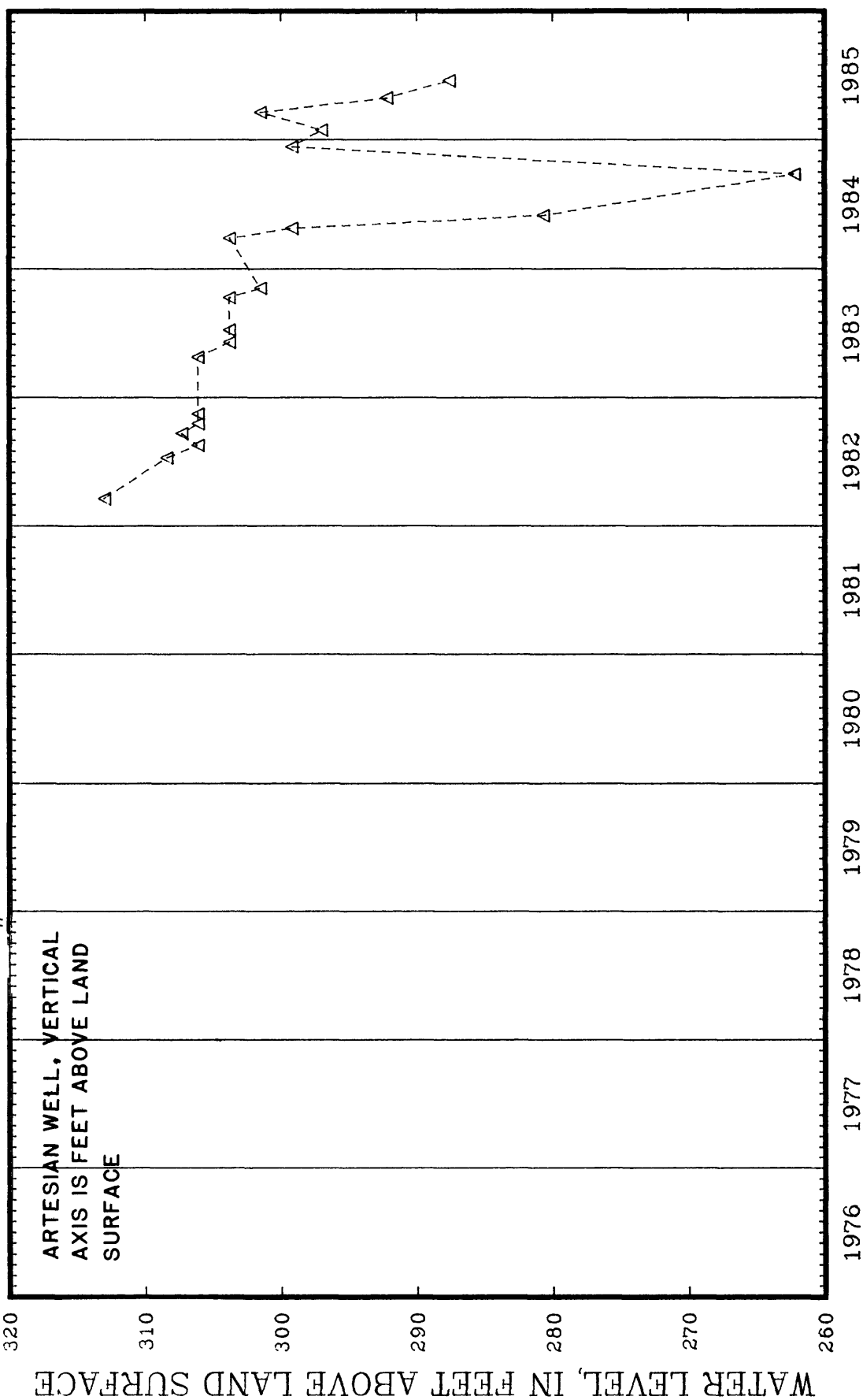
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WESTON COUNTY

46-63-10cda01 BHP #3

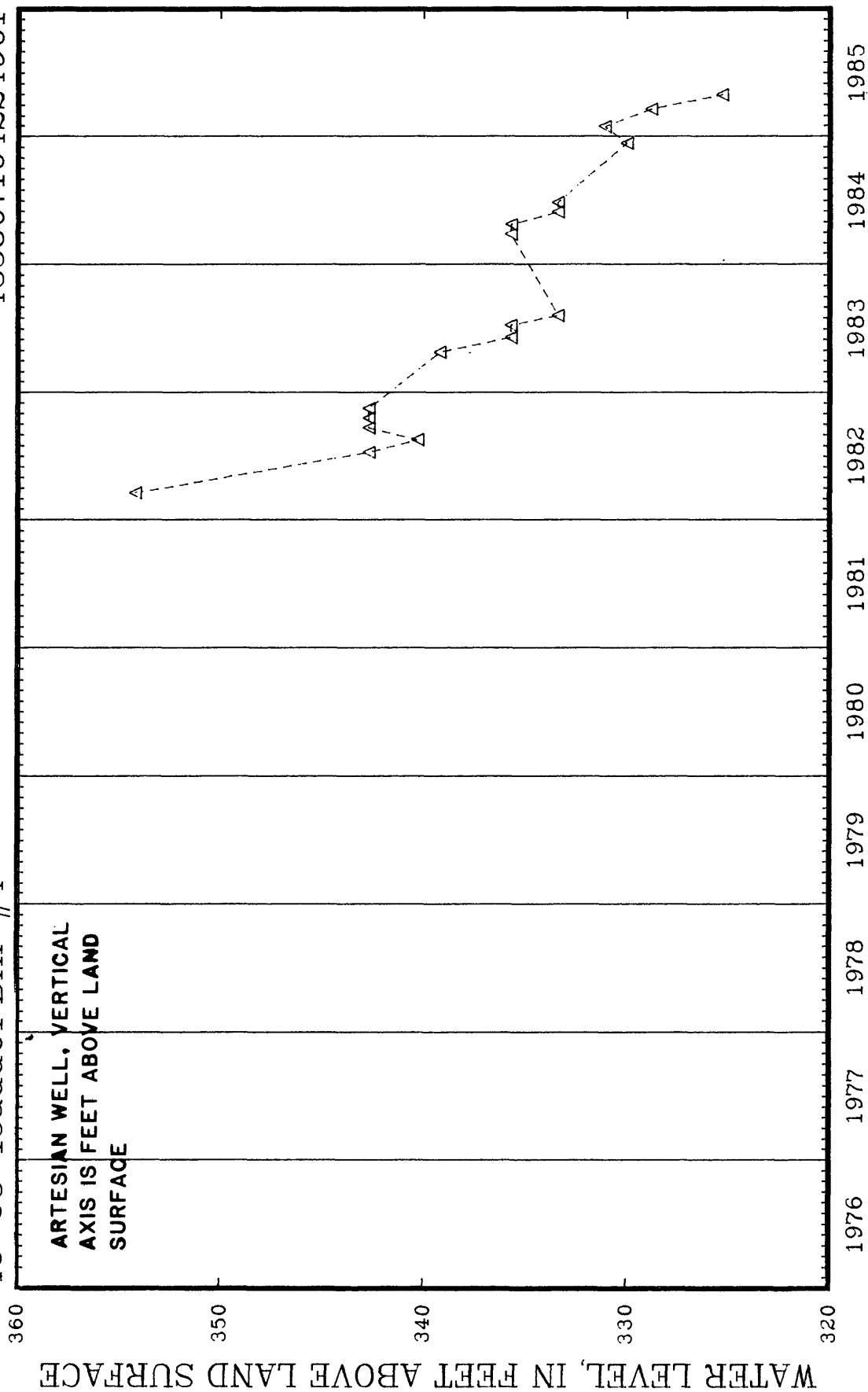
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WESTON COUNTY

46-63-15add01 BHP #4

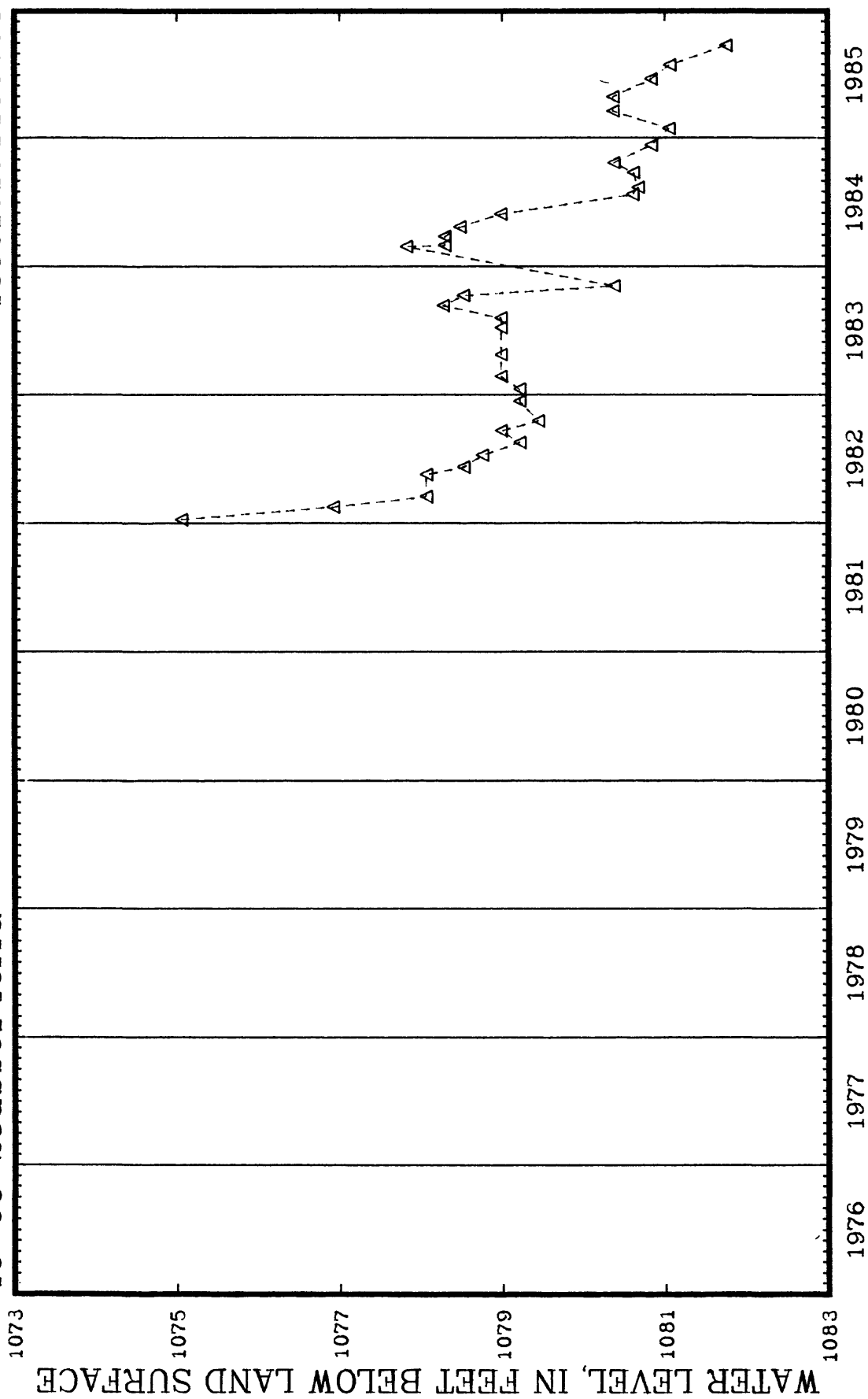
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WESTON COUNTY

46-66-25dbb01 Terra

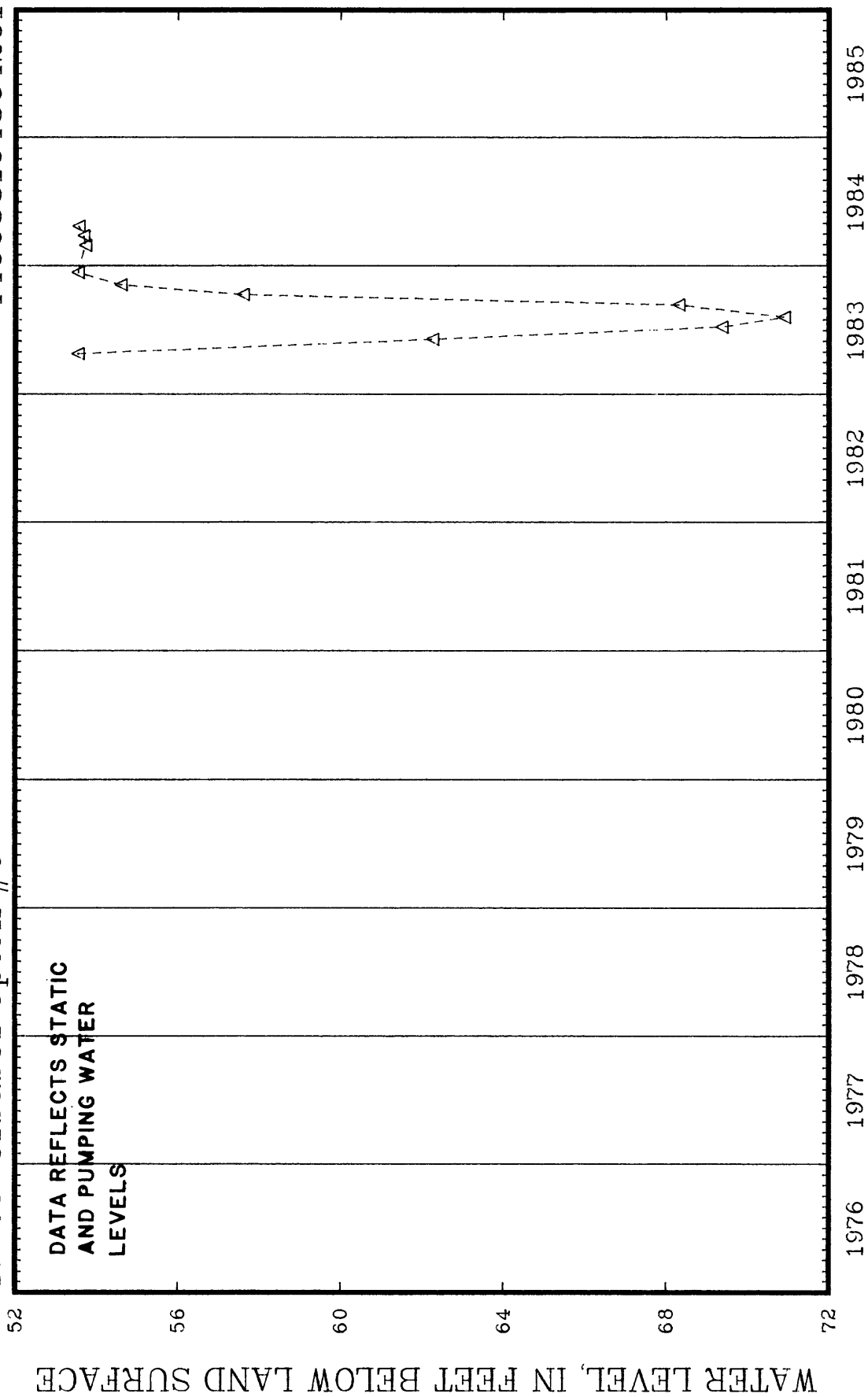
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WESTON COUNTY

47-65-01bab01 Upton #6

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WESTON COUNTY

48-65-35ccb01 Upton #4

440530104381001

