HYDROGEOLOGIC DATA OF THE DOUGHERTY PLAIN AND ADJACENT AREAS, SOUTHWEST GEORGIA

by

G. D. Mitchell

Prepared as part of the
Accelerated Ground-Water Program
in cooperation with the
U. S. Geological Survey

DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
GEORGIA GEOLOGIC SURVEY

INFORMATION CIRCULAR 58

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Joe D. Tanner, Commissioner
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J. Leonard Ledbetter, Director
GEORGIA GEOLOGIC SURVEY
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Atlanta

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INFORMATION CIRCULAR 58

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CONVERSION FACTORS

For use of those readers who may prefer to use International System (SI) Units rather than inch-pound units, the conversion factors for the terms used in this report are listed below:

Multiply inch-pound	By	To obtain SI units
inch (in.)	$2.540 \times 10^{+1}$	millimeter (mm)
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)
inch per year (in./yr)	$2.540 \times 10^{+1}$	millimeter per year (mm/yr)
cubic foot per second (ft^3/s)	2.832×10^{-2}	cubic meter per second (m^3/s)
square mile (mi^2)	2.590	square kilometer (km^2)
gallon per minute (gal/min)	6.309×10^{-2}	liter per second (L/s)
million gallons per day (Mgal/d)	0.0438	cubic meters per second (m^3/s)

* * *

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 "Mean Sea Level."

ABSTRACT

In the Dougherty Plain district of southwest Georgia, which includes an area of about 4,500 mi^2, ground water is used extensively for agricultural irrigation and as a source of industrial, domestic, and municipal water supplies. Most of this water comes from the Ocala Limestone, referred to as the principal artesian aquifer. Increased ground-water withdrawals for irrigation and large water-level declines during the agricultural drought of 1977 have raised concerns about the long-term potential of the ground-water system during prolonged and serious droughts.

This report presents basic hydrologic and geologic data on the principal artesian aquifer and the underlying Tallahatta aquifer, and specific-capacity, transmissivity, and storage-coefficient data for the principal artesian aquifer. The data were collected in an investigation of the Dougherty Plain by the U.S. Geological Survey, made in cooperation with the Georgia Department of Natural Resources, Georgia Geologic Survey.

The report includes construction, location, and other pertinent data on about 500 wells; precipitation data for nine weather stations, mainly for 1935 through 1980; lithologic descriptions of driller's samples from 46 test wells; maps showing the potentiometric surface of the principal artesian aquifer for November 1979 and May 1980; and water-quality data for the principal artesian and Tallahatta aquifers.

INTRODUCTION

In the Dougherty Plain district and adjacent areas of the Coastal Plain province of southwest Georgia, the principal artesian aquifer is used extensively for agricultural irrigation and as a source of industrial, domestic, and municipal water supplies. Ground-water withdrawals for irrigation have increased from about 15 billion gallons in 1976 to an estimated 77 billion gallons in 1980. Increased ground-water withdrawals for irrigation and large water-level declines during the agricultural drought of 1977 have raised serious concerns about the quantity of water that can be developed from the ground-water system in the Dougherty Plain during future drought periods.

The Dougherty Plain and adjacent areas covered by this report comprise about 4,500 mi in southwestern Georgia and include all or parts of Baker, Calhoun, Crisp, Dooly, Decatur, Dougherty, Early, Grady, Lee, Miller, Mitchell, Seminole, Sumter, Terrell, and Worth Counties (fig. 1). This report contains basic hydrologic and geologic data for the principal artesian aquifer and the Tallahatta aquifer and specific-capacity, transmissivity, and storage-coefficient data for the principal artesian aquifer in and adjacent to the Dougherty Plain. Table 1 lists selected wells in the report area, gives construction data, and shows the type of data available for each well. The locations of these wells are shown in plate 1. The data were collected in an investigation of the Dougherty Plain by the U.S. Geological Survey, made in cooperation with the Georgia Department of Natural Resources, Georgia Geologic Survey.

ACKNOWLEDGMENTS

Appreciation is extended to the following for allowing test drilling on their properties and for their continued cooperation throughout the study: Alvin Newton, Ike M. Newberry, Jr., Mike Moorman, Douglas Harvey, Joe Hall, Thomas Rentz, Randall Newberry, Gerome Wells, Clyde Bradley of the Roddenberry Co., Clayton Holton of the Reba Corp., Bob Webber of AG-CON, Inc., and Lin Johnson and Ralph Thompson of Jo-Su-Li Farms. The courtesies and help extended by Terry Brogden, Freddie Thompson, and Kendall Bradley, and by John Flatt of Layne-Atlantic Co., are sincerely appreciated.

WELL NUMBERING SYSTEM

Two numbering systems are used to identify wells in this report. A 6-character numbering system is used to identify wells in tables and figures. This system consists of a 3-digit number that identifies the county in which a well is located, followed by a hyphen and a 2-digit number that is the serial number of the well in that county. The table below lists the counties and their reference numbers:

Baker	007	Lee	177
Calhoun	037	Miller	201
Crisp	081	Mitchell	205
Decatur	087	Seminole	253
Dooly	093	Sumter	261
Dougherty	095	Terrell	273
Early	099	Worth	321
Grady	131		

The 3-digit county number has been omitted in figures that include county names.

The other numbering system used in this report is the Ground Water Site Inventory system (GWSI) of the U.S. Geological Survey which catalogs ground-water stations by using a unique number for each well. The number consists of 15 digits: the first 6 digits denote the degrees, minutes, and seconds of latitude of the well site; the next 7 digits denote degrees, minutes, and seconds of longitude; and the last 2 digits are a sequential number for wells within a 1-second grid. Once assigned, a site identification number does not change even though latitude or longitude may later be corrected.

PRECIPITATION DATA

The locations of nine National Oceanic and Atmospheric Administration (NOAA) precipitation stations are shown in figure 2. Figures 3 through 11 show monthly precipitation for 1979-80 and yearly precipitation for 1935-80, or as otherwise indicated for these stations. Additional precipitation data as well as temperature data may be obtained from NOAA, Environmental Data and Information Service, National Climatic Center, Asheville, NC 28801.

GEOLOGIC DATA

A generalized stratigraphic column of the Tertiary System in the Dougherty Plain is shown in table 2. Data in this report pertain to the upper part of the Tertiary section, which includes the Tallahatta aquifer (of the Claiborne Group), the Ocala Limestone (referred to as the principal artesian aquifer), and the residuum of the Ocala Limestone (Hicks and others, 1980). Figure 12 shows the locations of wells for which lithologic data are given on 44 test wells in tables 3 through 46.

WATER-LEVEL DATA

In the Dougherty Plain district the principal artesian aquifer is used extensively for agricultural irrigation. Because of the increased pumpage from this aquifer, the U.S. Geological Survey has made semiannual water-level measurements since 1977 in more than 200 wells tapping the principal artesian aquifer (table 47). These wells are measured in the early spring after the winter rains when water levels are usually at their highest, and again in the fall after the summer irrigation season when water levels are usually at their lowest. Plates 2 and 3, which were constructed from some of these measurements, show the potentiometric surface of the principal artesian aquifer for November 1979 and May 1980.

Continuous water-level records are obtained from a network of U.S. Geological Survey observation wells equipped with automatic water-level recorders (fig. 13). These records were used to construct hydrographs showing the change in water level over time in a specific well. Sixteen hydrographs of mean daily water levels for wells in the principal artesian aquifer, mostly for March 1979 to December 1980, are shown in figures 14 through 18. Hydrographs of mean monthly water levels for two of these wells for 1971 through 1980 are shown in figure 19. Six hydrographs showing mean daily water levels in wells tapping the Tallahatta aquifer, mainly for January 1979 to December 1980, are presented in figures 20 and 21.

AQUIFER HYDRAULIC DATA

Aquifer hydraulic data are presented in this report for only the principal artesian aquifer. Specific-capacity data were obtained by field tests conducted for the Dougherty Plain study and from the files of local drillers. Specific capacities and related data for selected wells are given in table 48, and locations of these wells are shown in figure 22. Transmissivity and storage-coefficient data were obtained from aquifer tests conducted for the Dougherty Plain study. The locations of the test sites and the calculated transmissivity and storage-coefficient values for each site are shown in figure 23. The method used to calculate the transmissivity and storage-coefficient values for each aquifer test and a listing of the calculated values are summarized in table 49. A plot and listing of the drawdown data, other pertinent data, and the calculated transmissivity and storage coefficient for each site are given in figures 24 through 34.

WATER QUALITY

Since 1950 the U.S. Geological Survey periodically has collected and analyzed water from wells in the report area. A means of comparing the concentrations of constituents in water from the principal artesian aquifer with concentrations in water from the Tallahatta aquifer is provided in table 50. Constituent concentrations generally are higher in water from the Tallahatta aquifer than in water from the principal artesian aquifer. Water from the principal artesian aquifer, however, generally contains higher nitrate concentrations than water from the Tallahatta aquifer. Water from both aquifers generally is suitable for agricultural, municipal, domestic, and most industrial uses.

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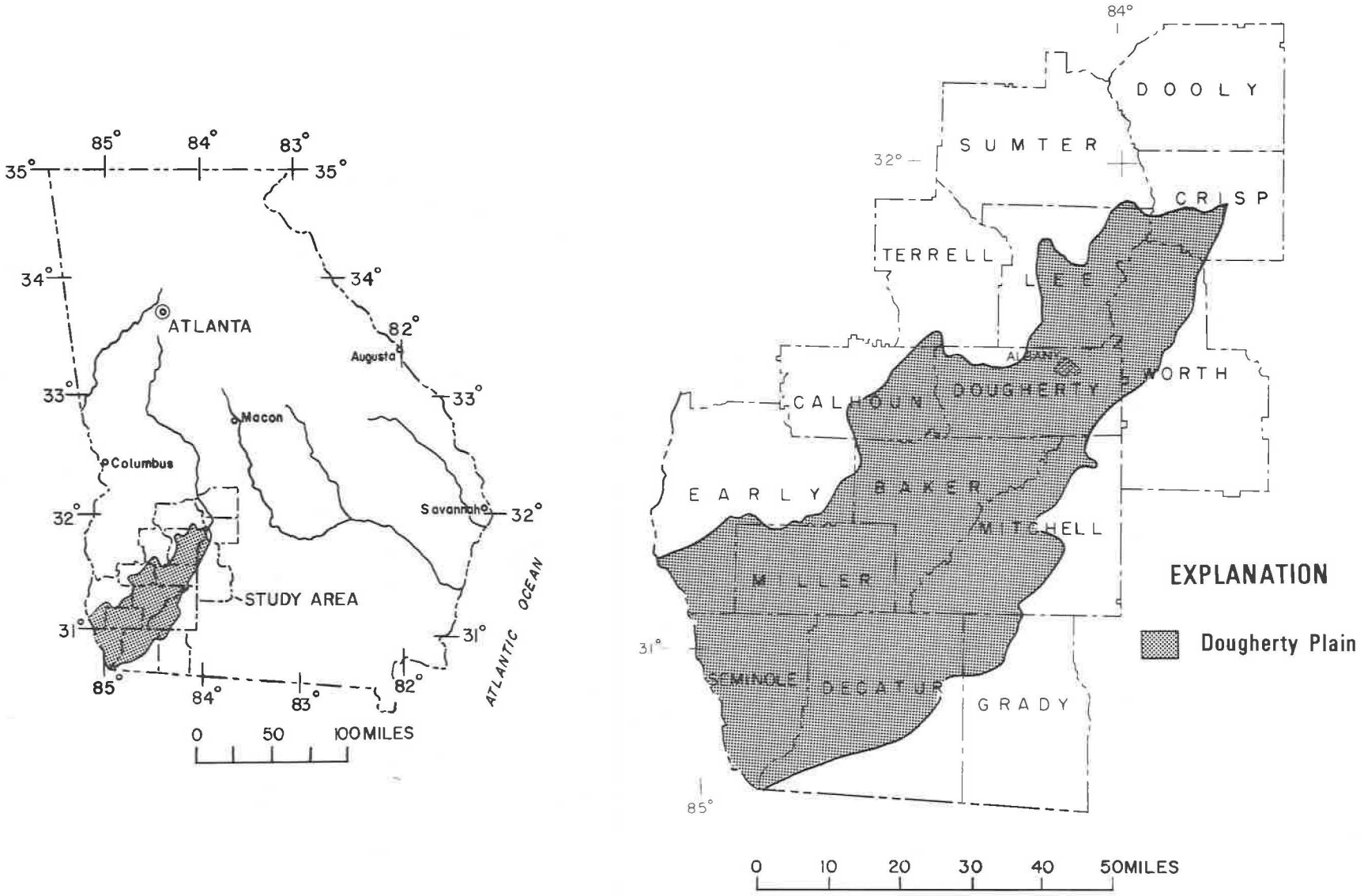


Figure 1. Location of report area.

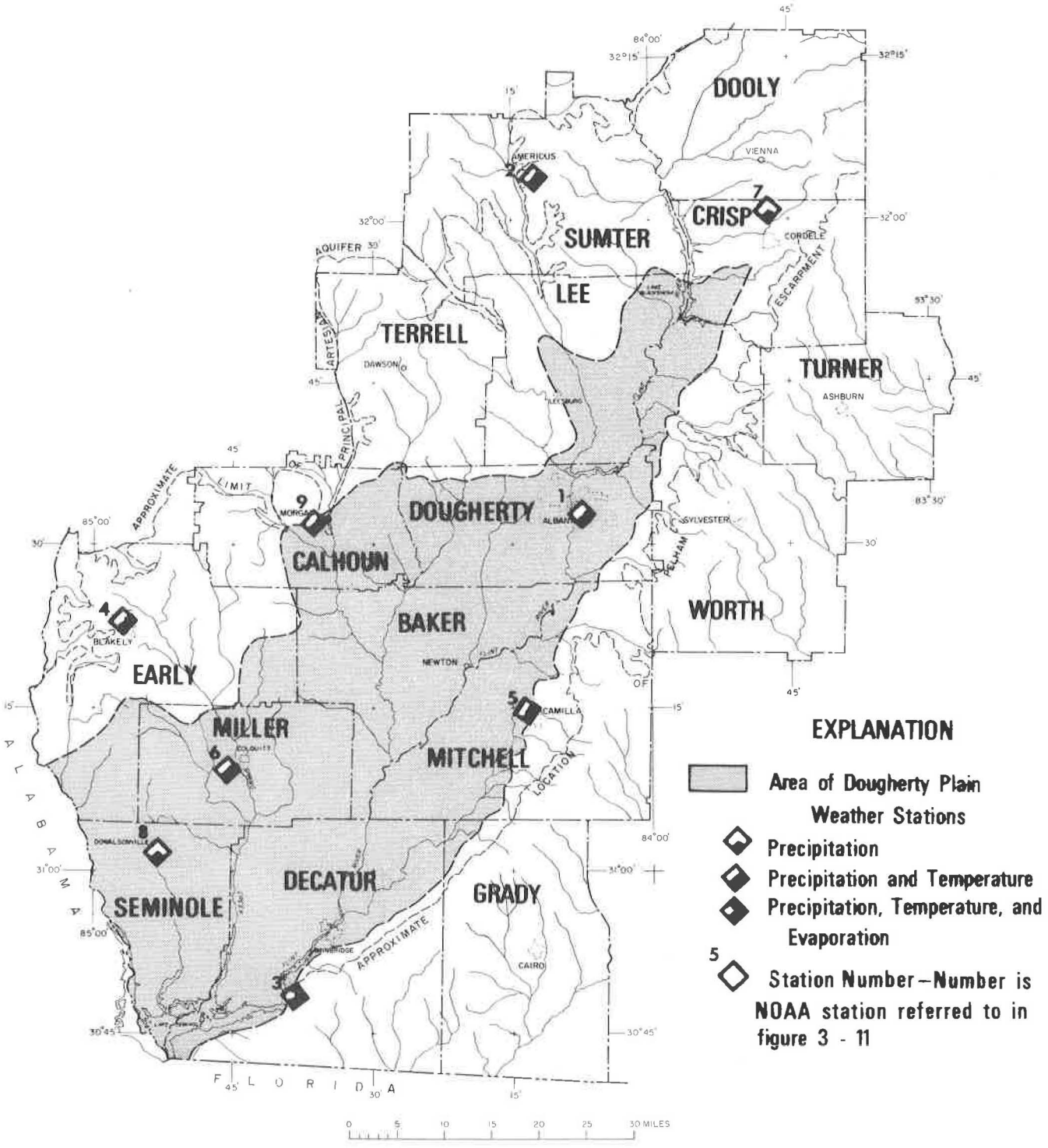


Figure 2. Locations of National Oceanic and Atmospheric Administration (NOAA) stations.

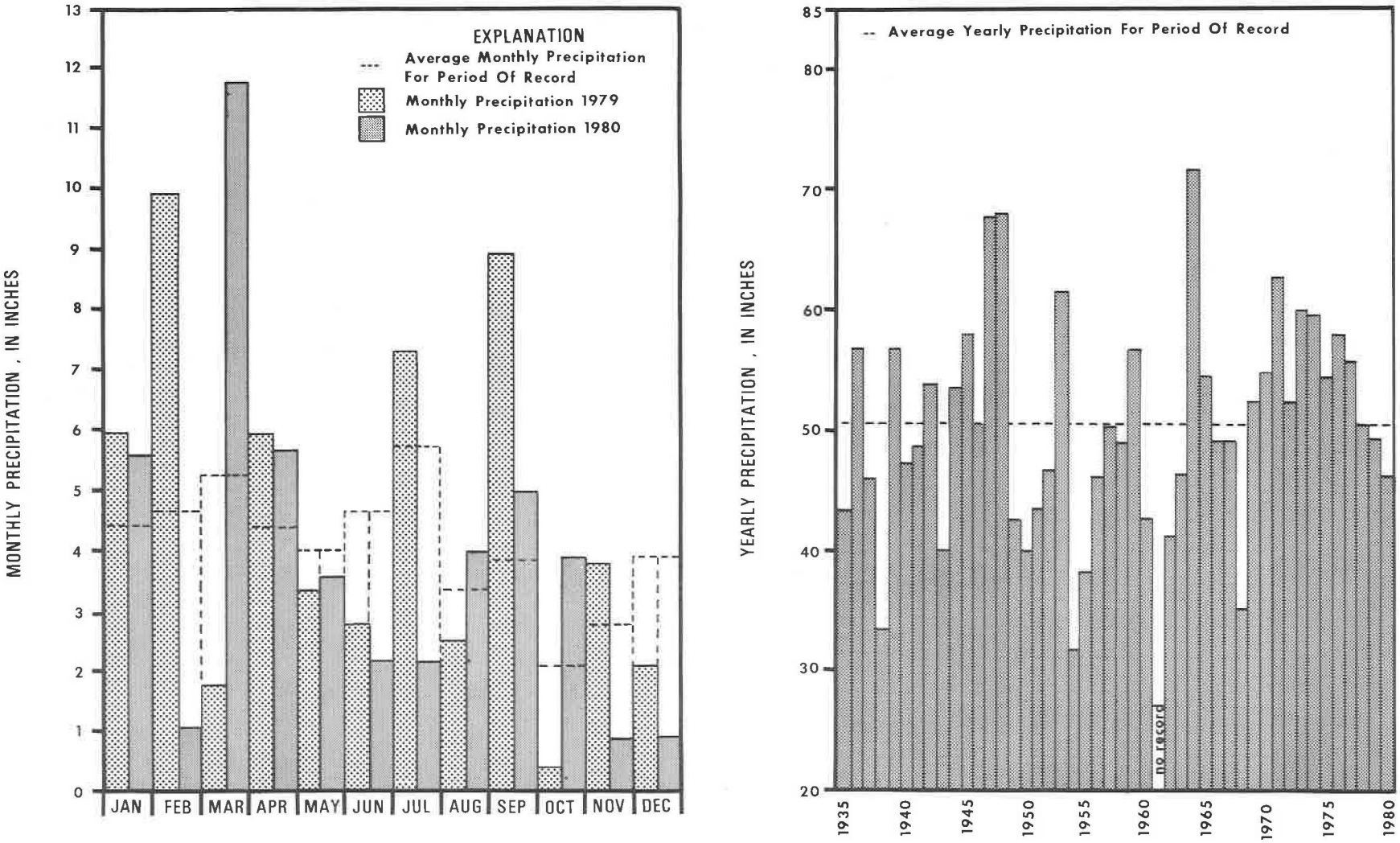
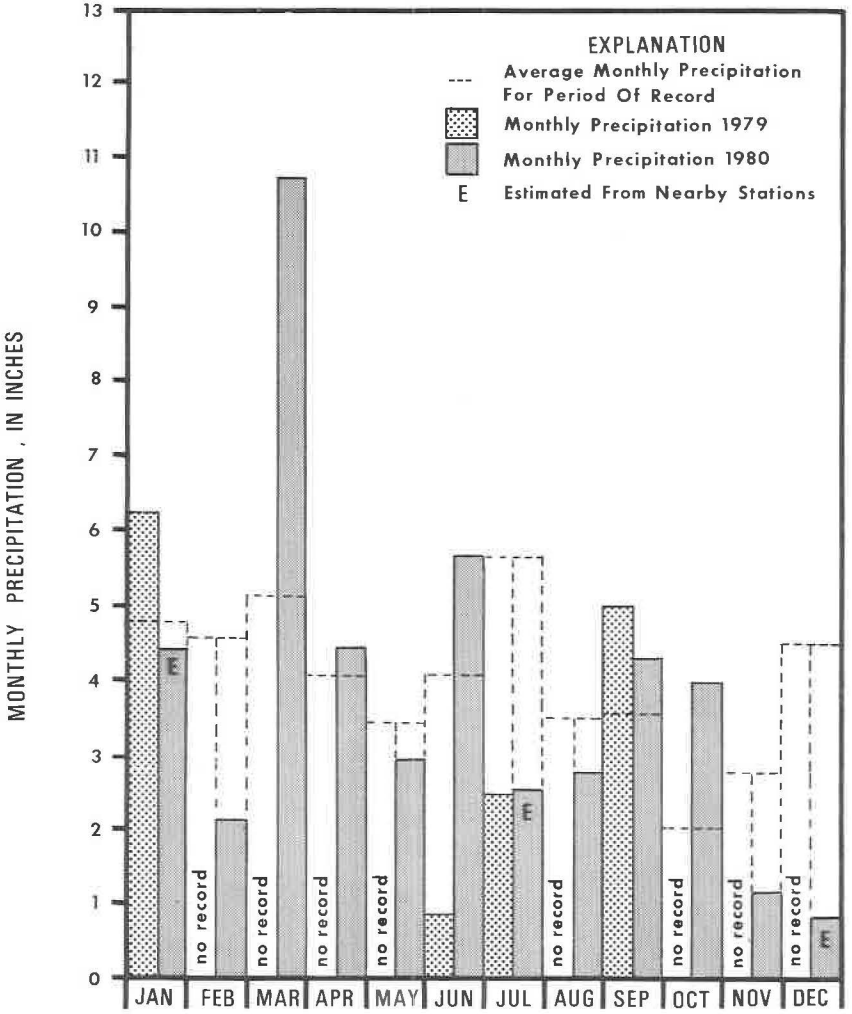


Figure 3. Station 1, 1935—80.



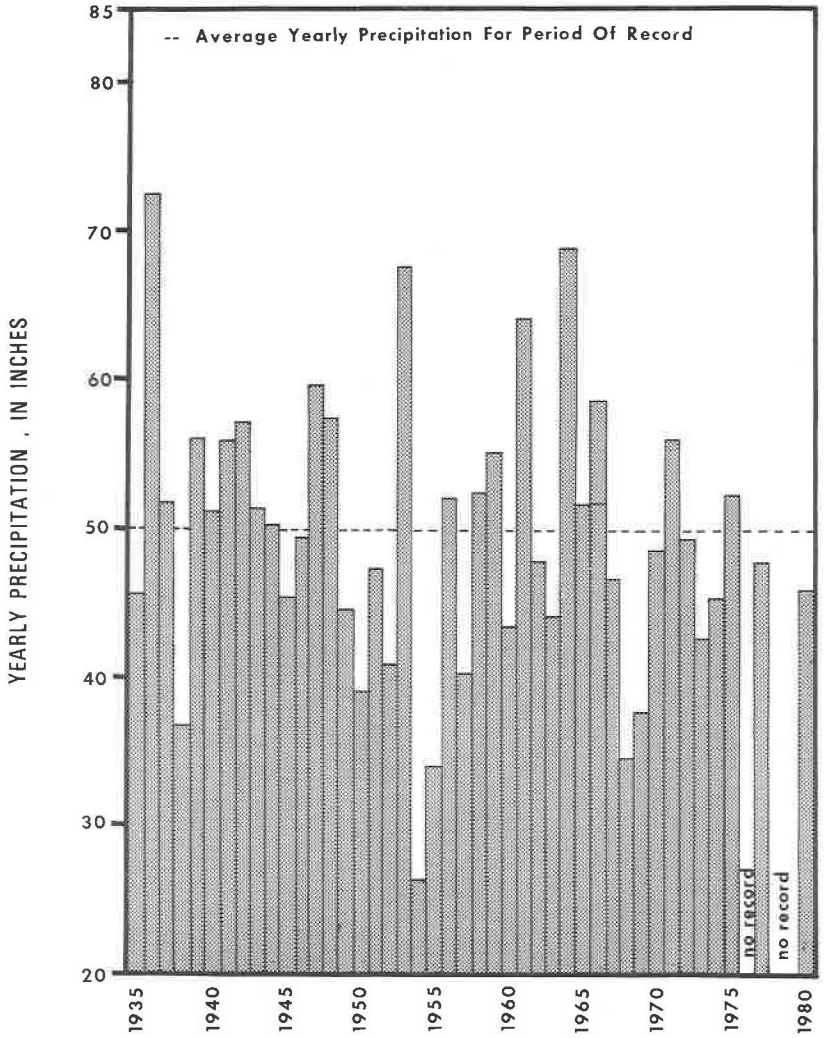


Figure 4. Station 2, 1935—80.

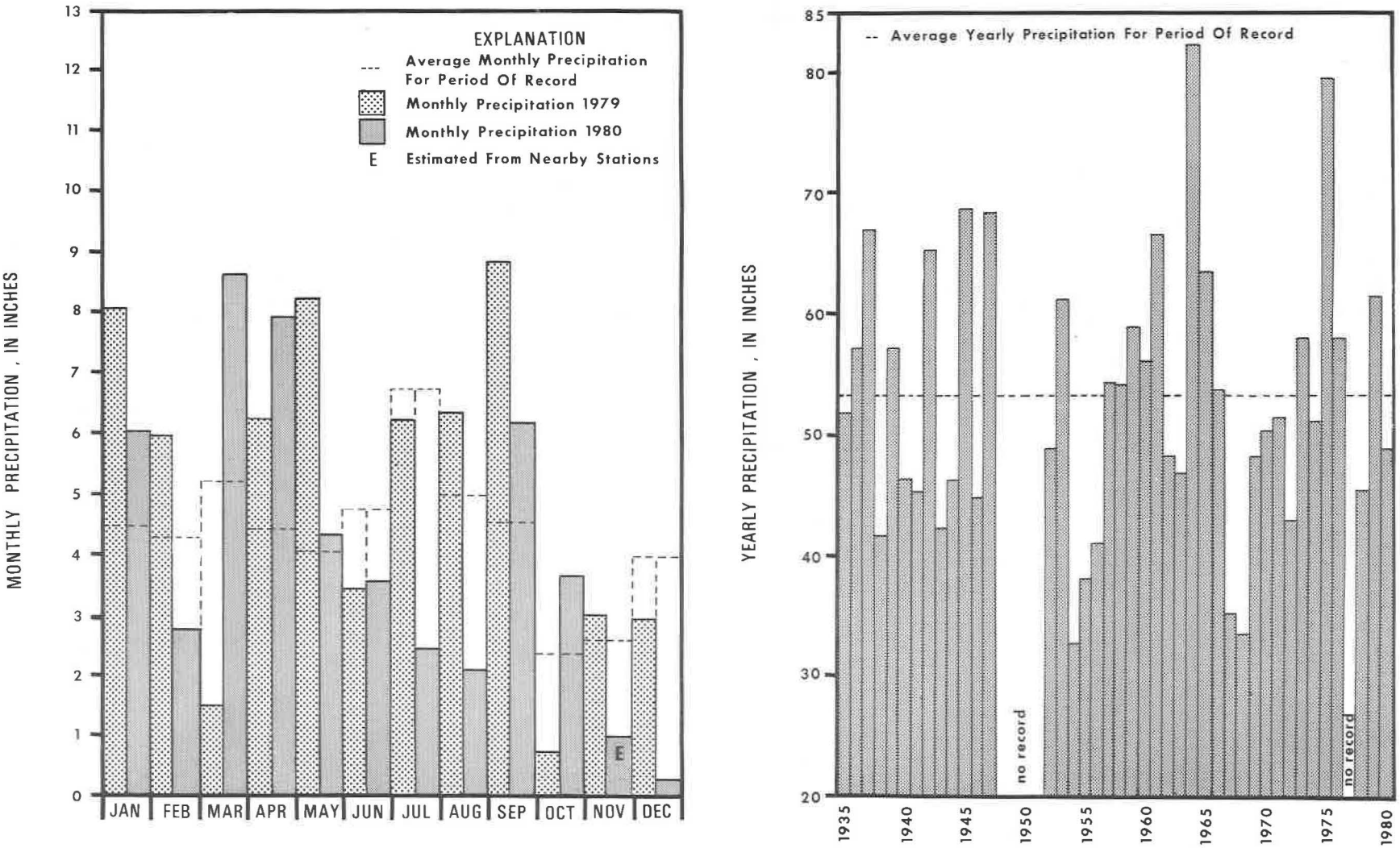


Figure 5. Station 3, 1935--80.

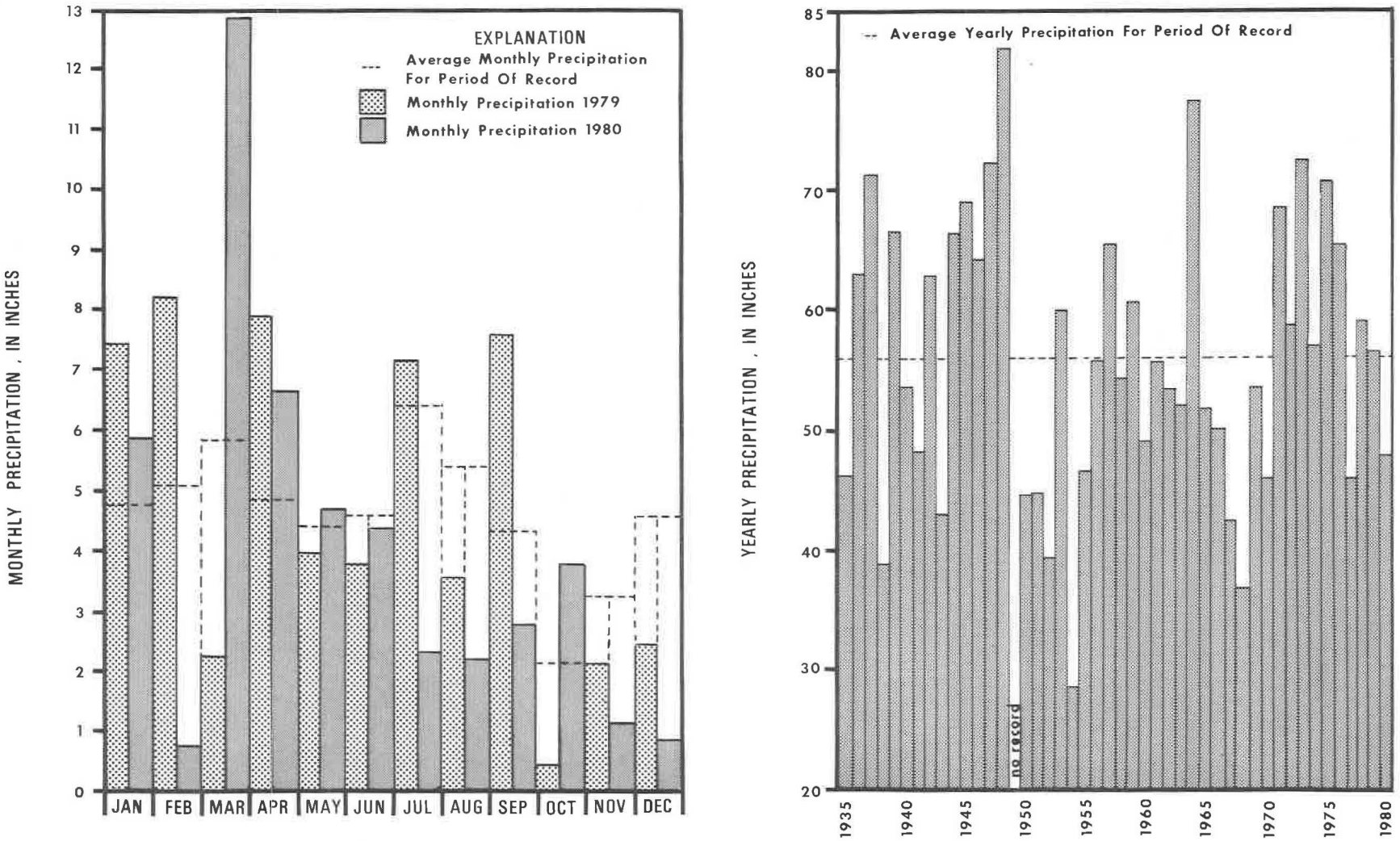


Figure 6. Station 4, 1935—80.

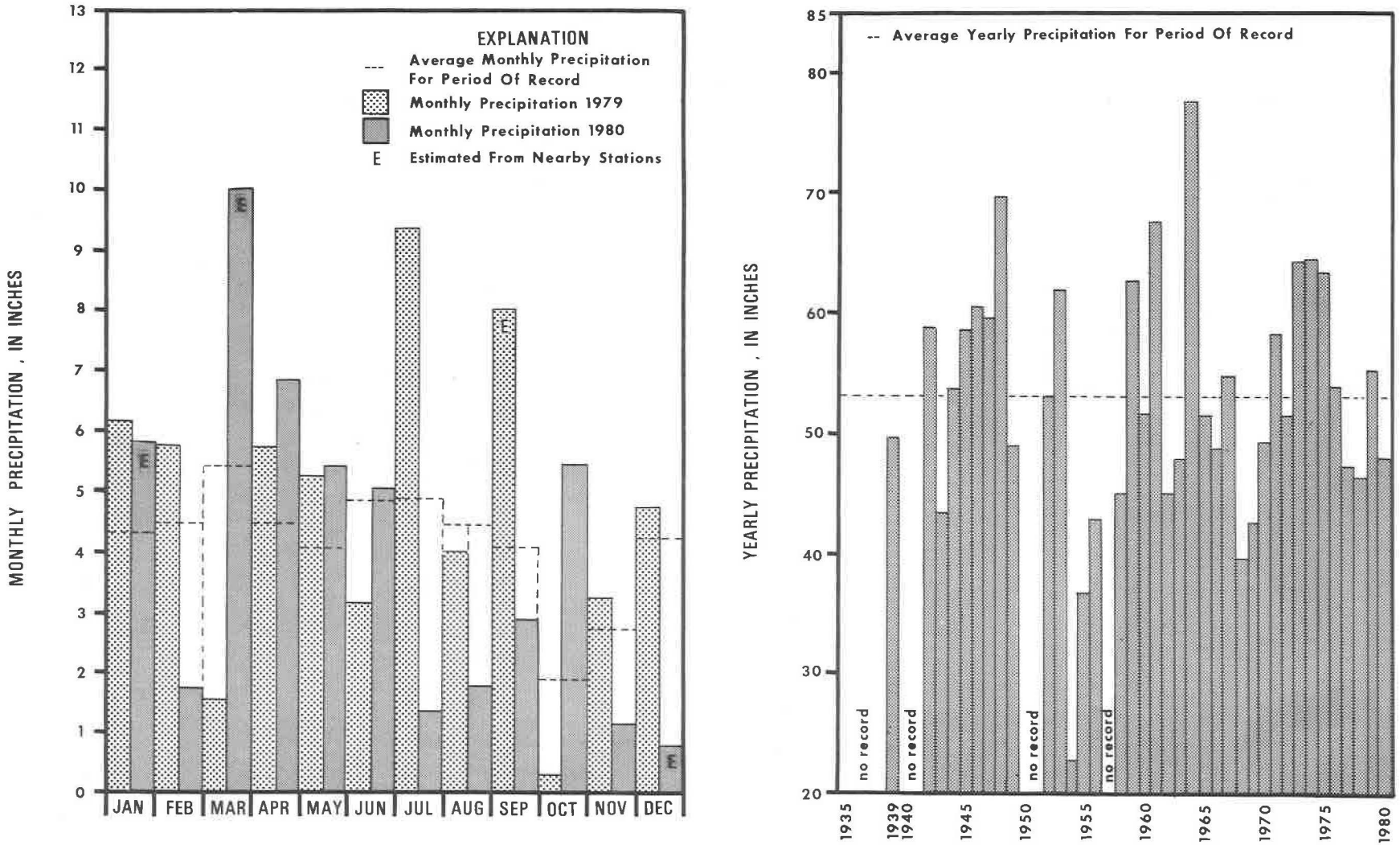


Figure 7. Station 5, 1939—80.

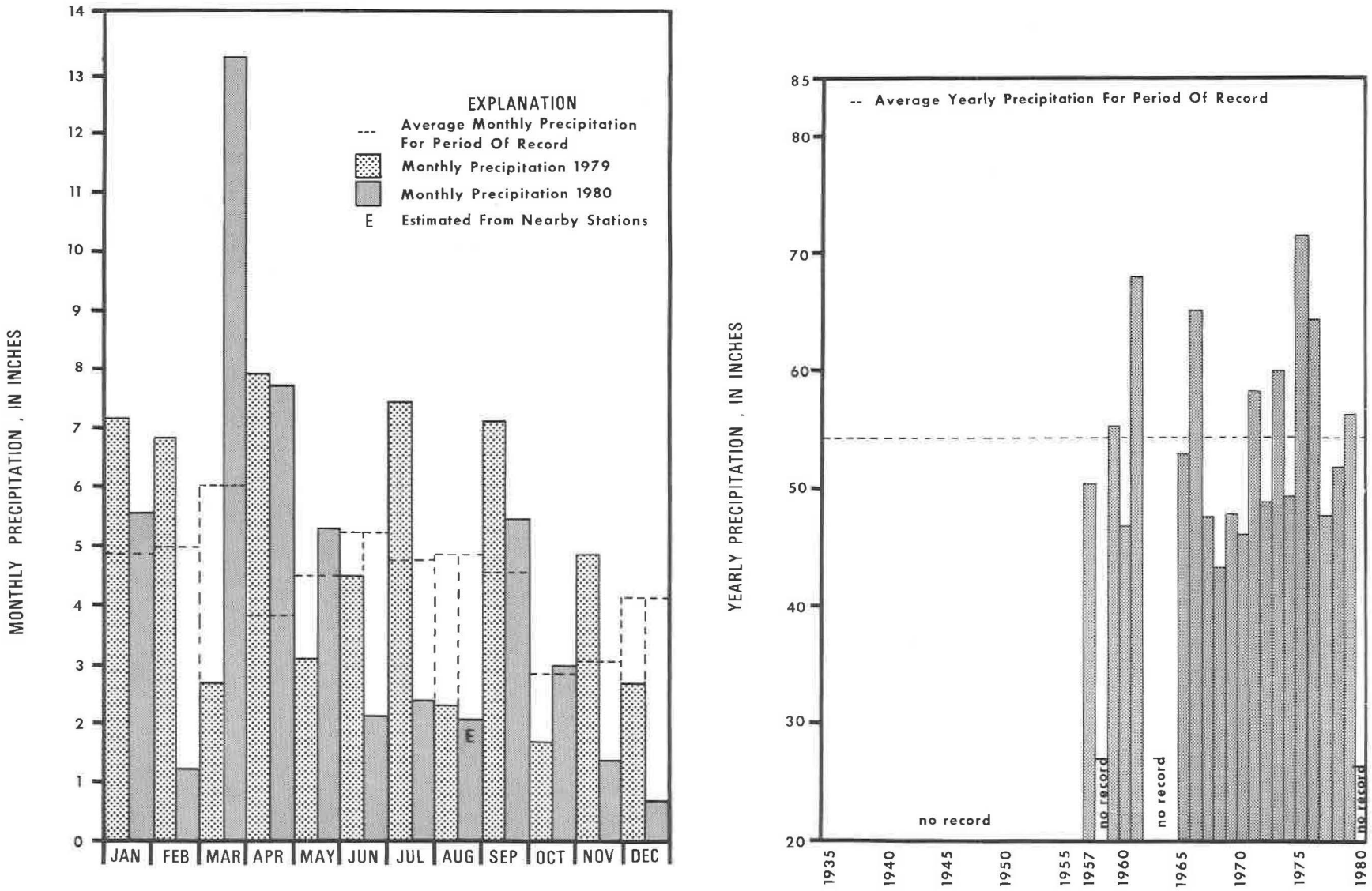


Figure 8. Station 6, 1957—80.

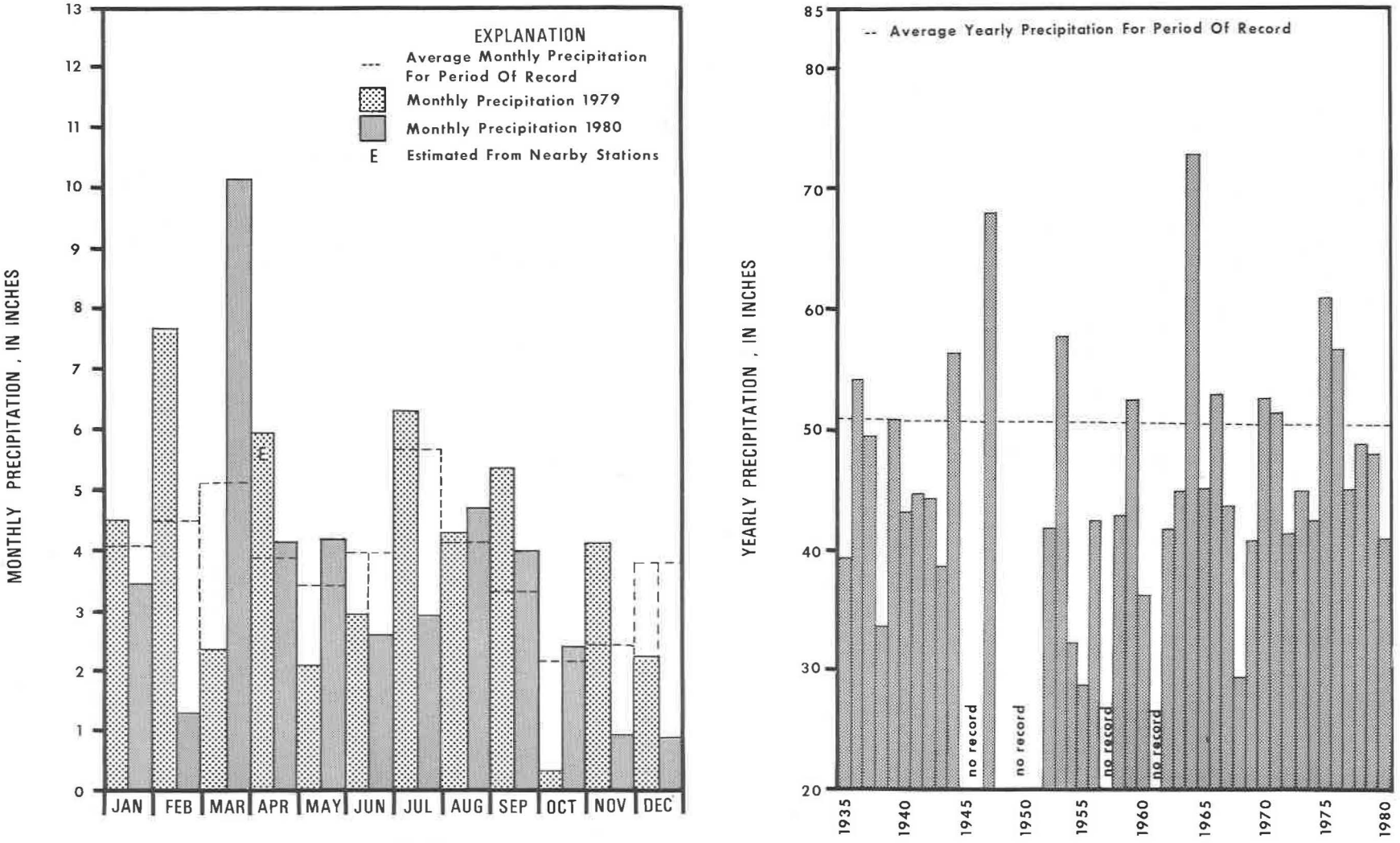


Figure 9. Station 7, 1935—80.

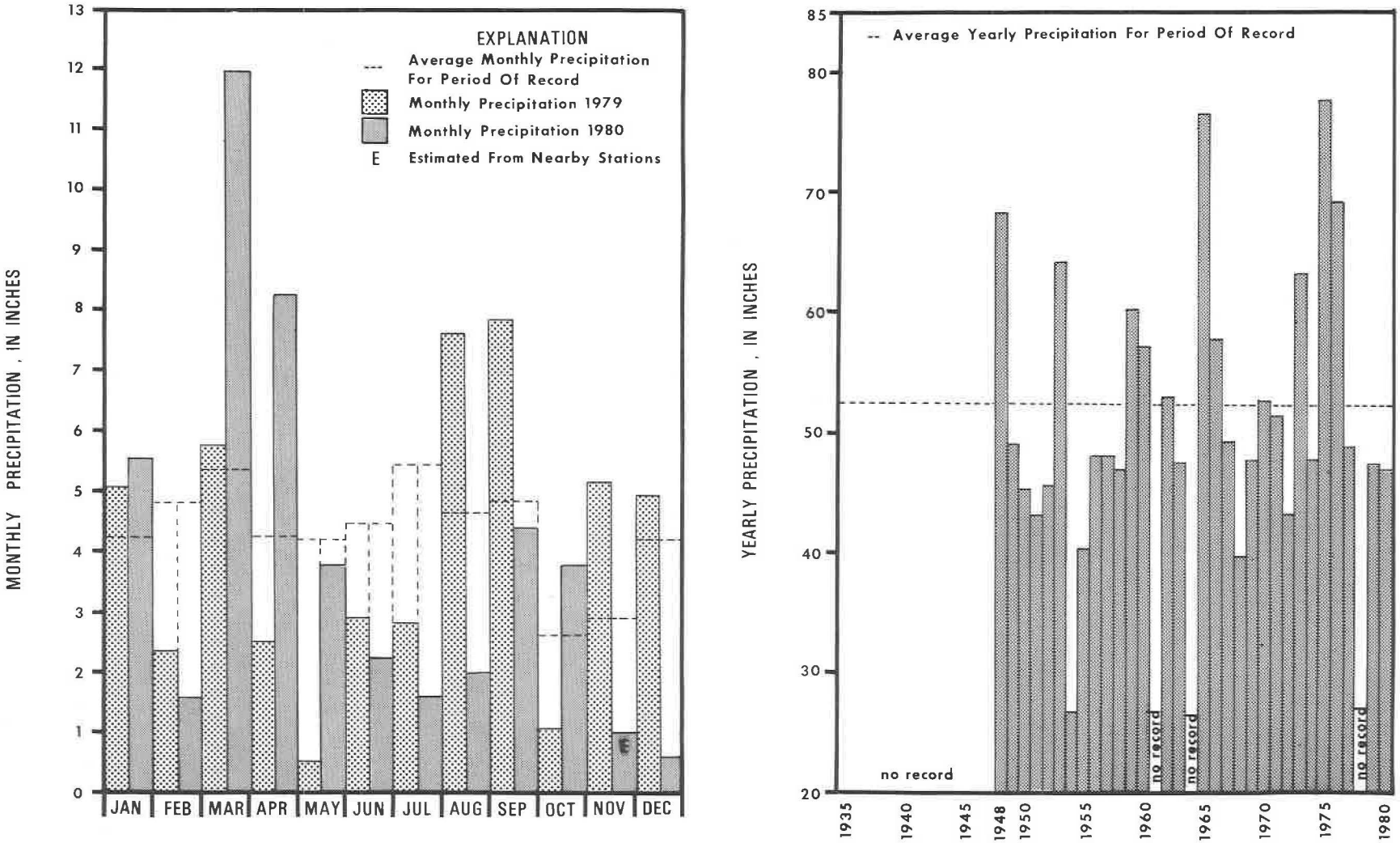


Figure 10. Station 8, 1948—80.

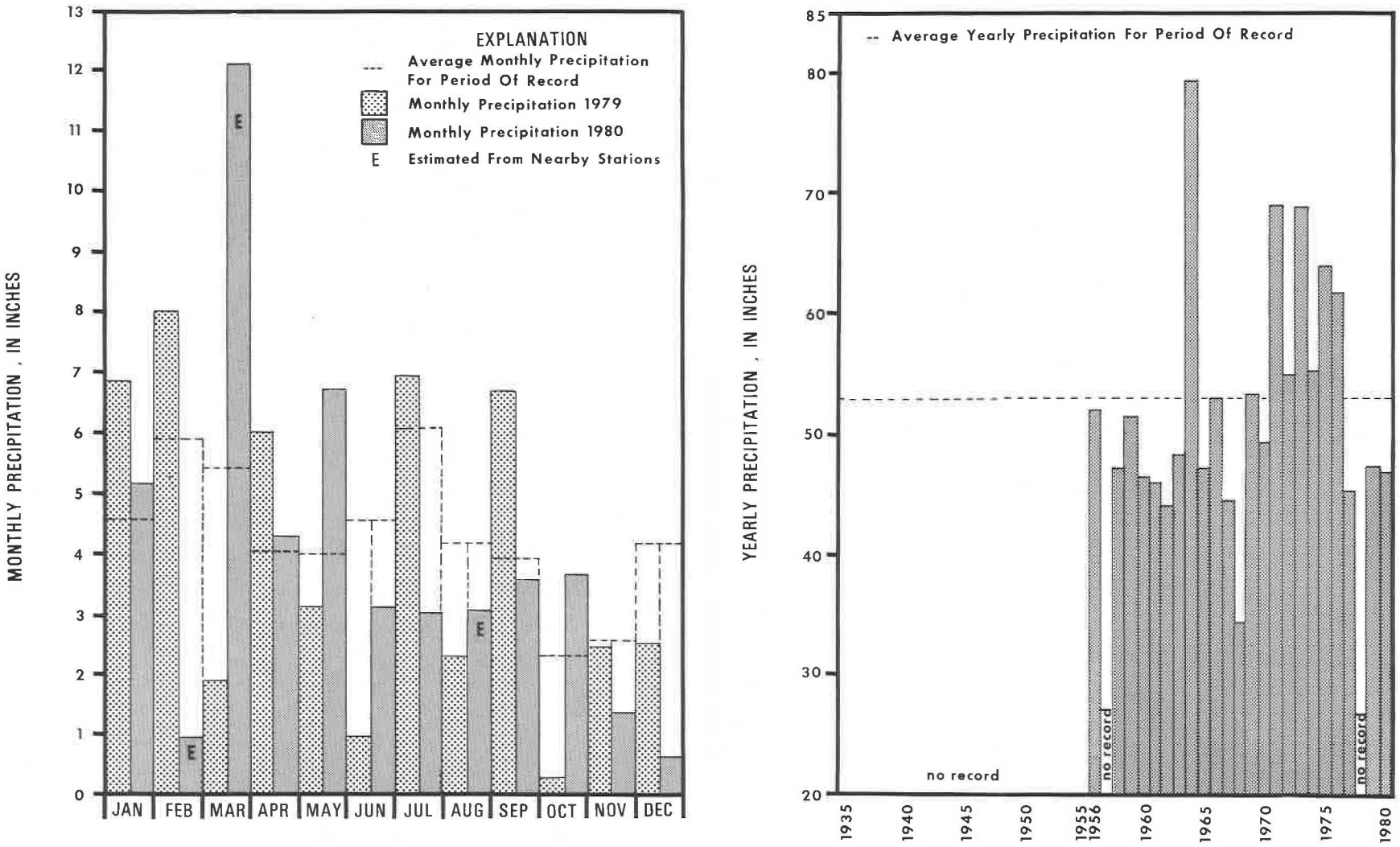


Figure 11. Station 9, 1956—80.

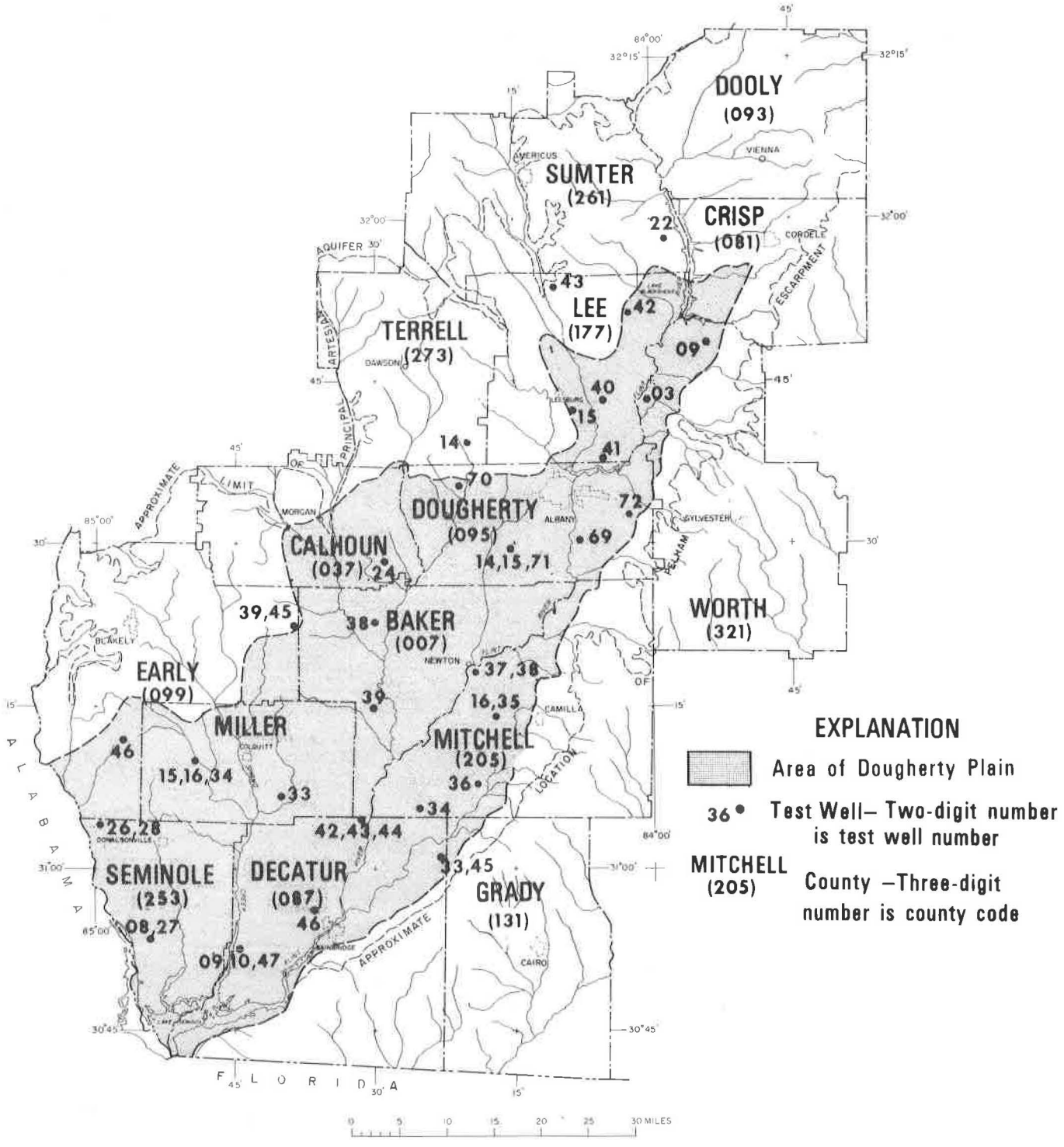


Figure 12. Locations of wells for which lithologic data are given in tables 3—46.

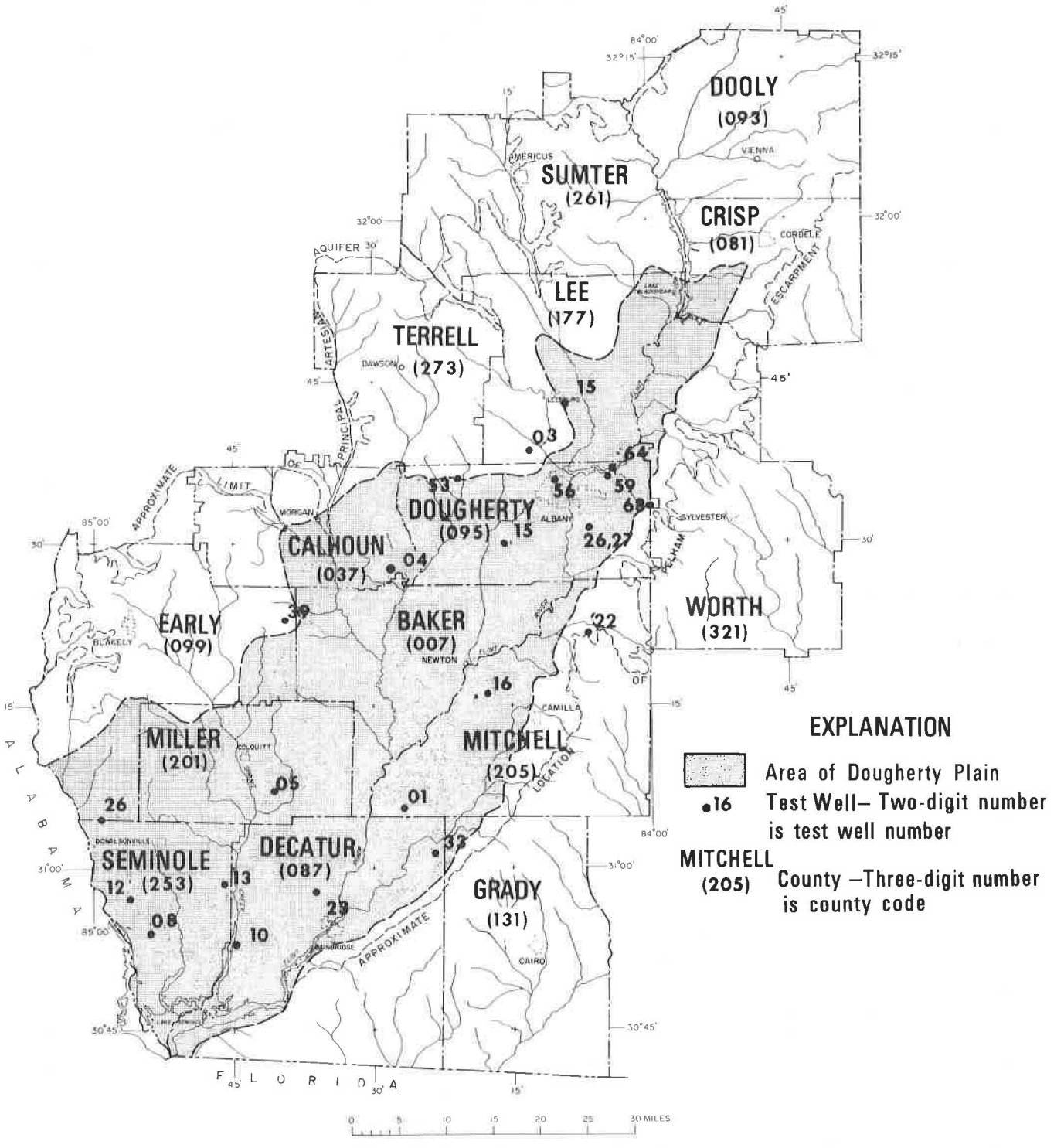


Figure 13. Locations of wells for which hydrographs are shown in figures 14—21.

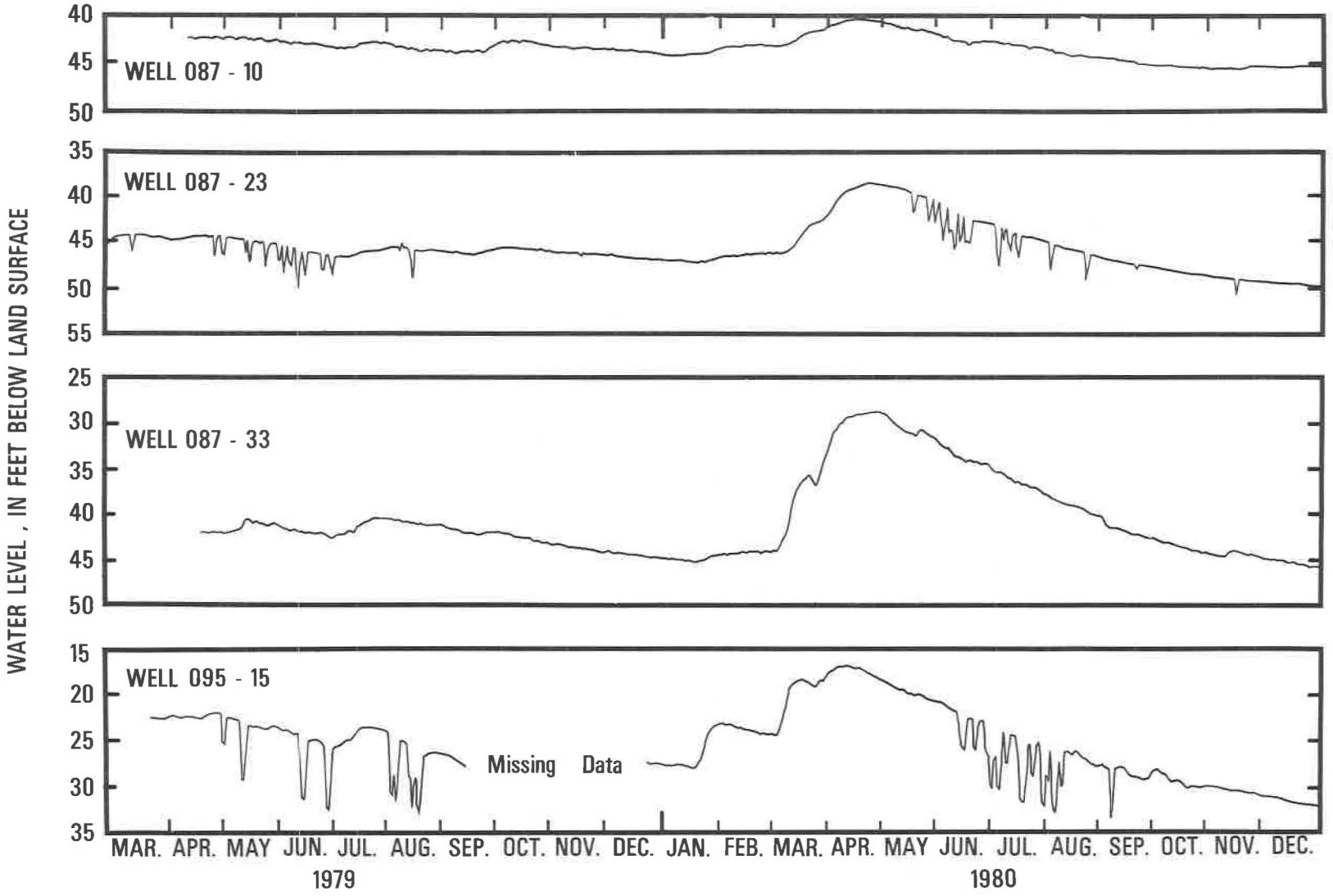


Figure 14. Hydrographs of mean daily water levels for principal artesian aquifer wells 087—10, 087—23, 087—33, and 095—15.

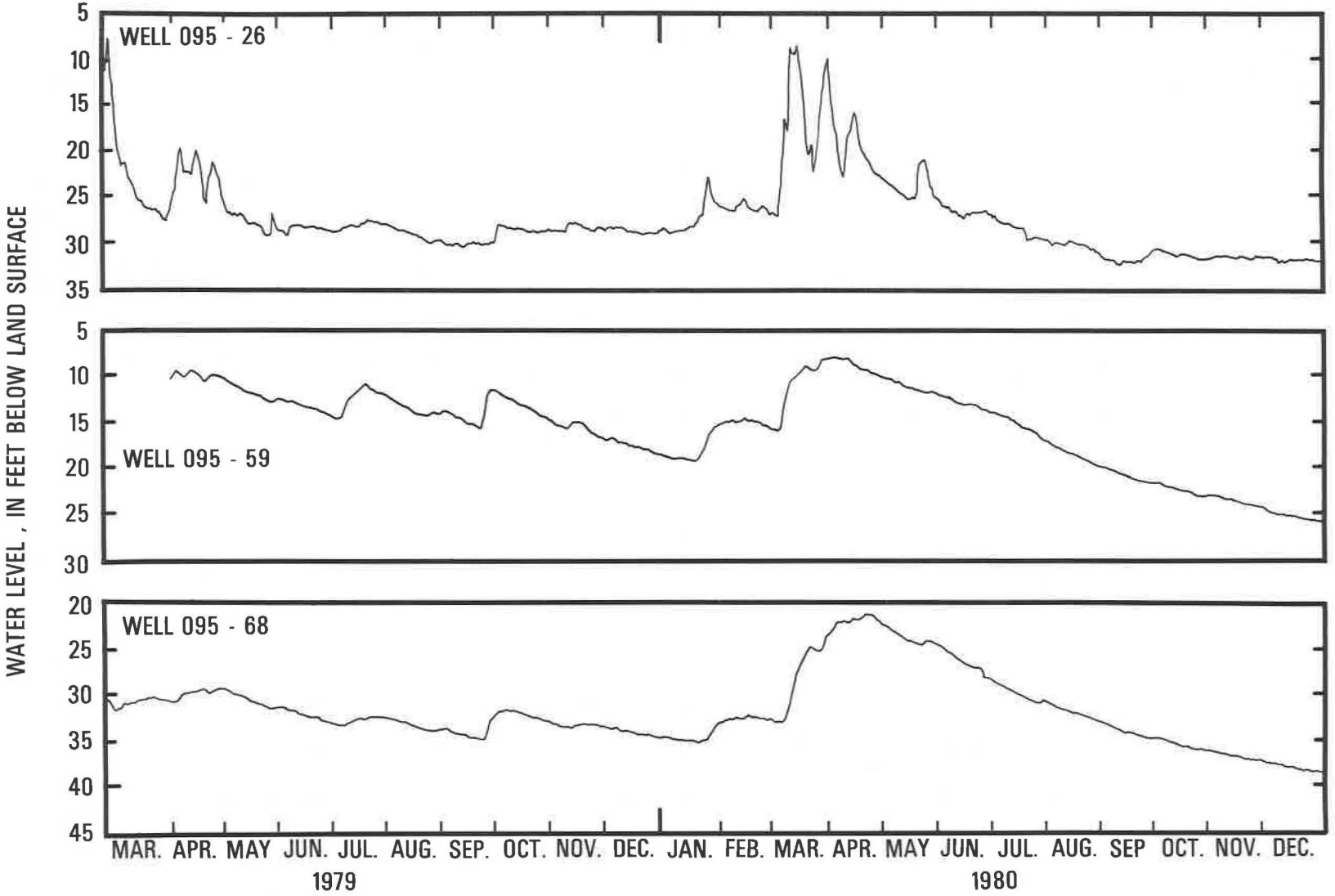


Figure 15. Hydrographs of mean daily water levels for principal artesian aquifer wells 095—26, 095—59, and 095—68.

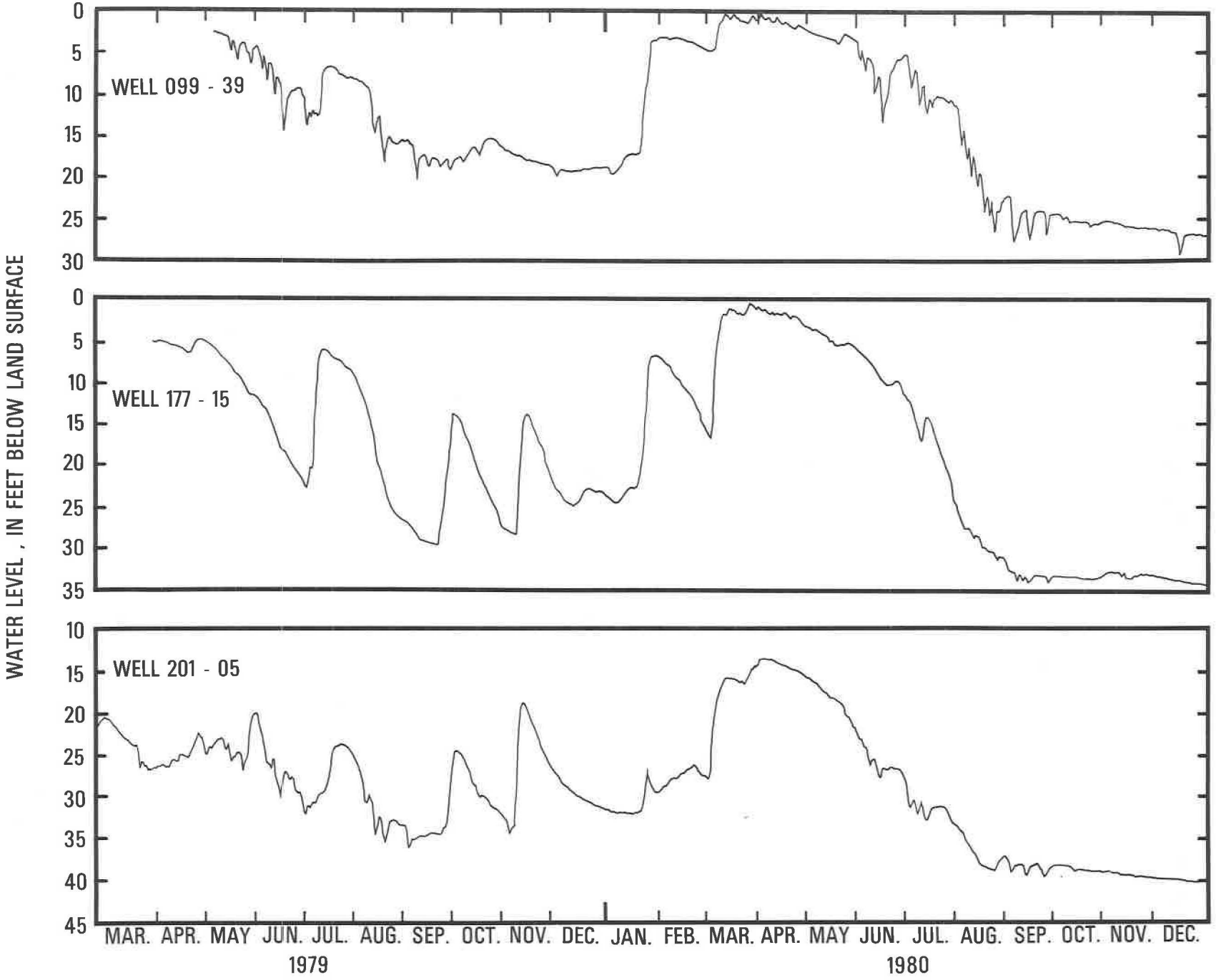


Figure 16. Hydrographs of mean daily water levels for principal artesian aquifer wells 099—39, 177—15, and 201—05.

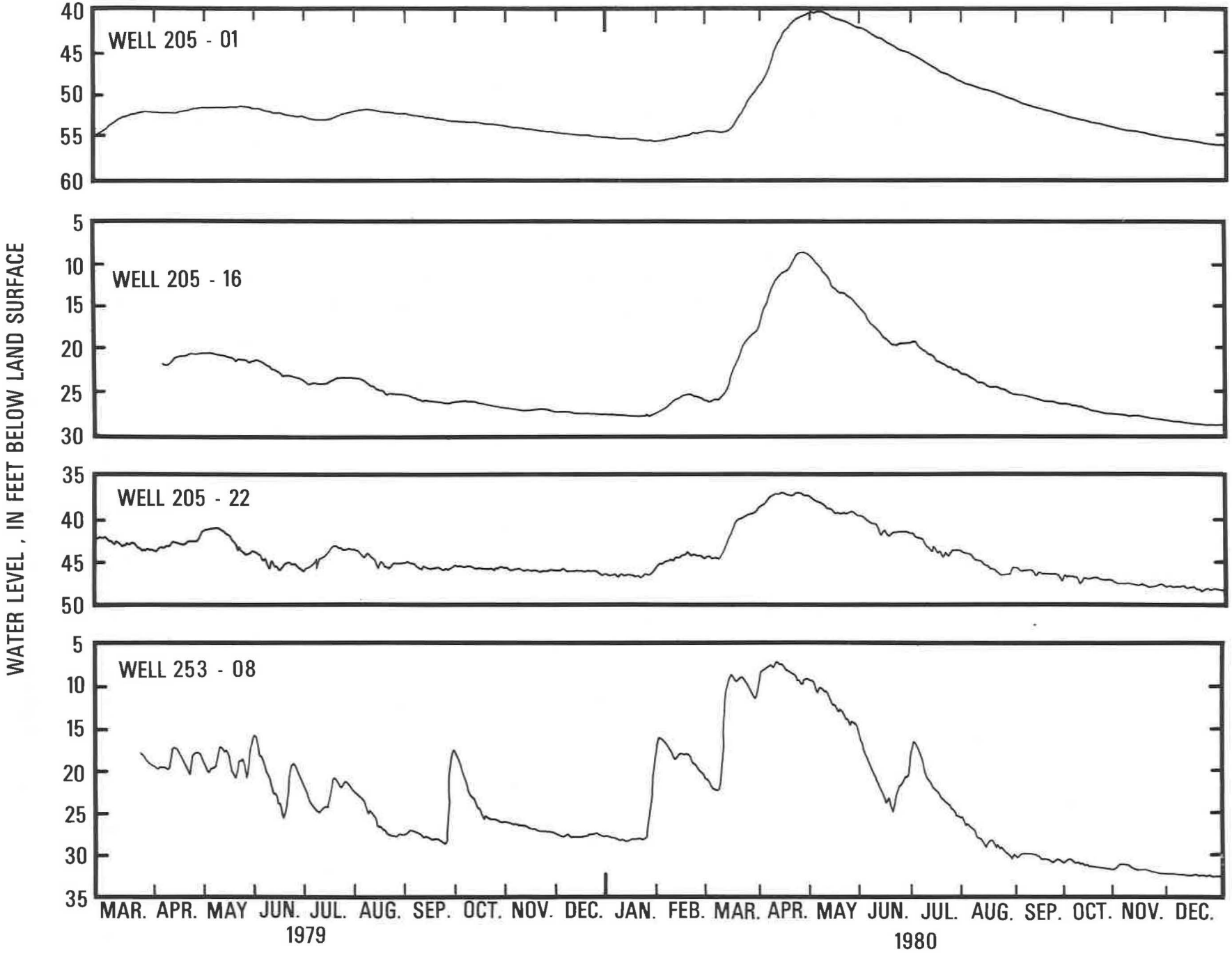


Figure 17. Hydrographs of mean daily water levels for principal artesian aquifer wells 205—01, 205—16, 205—22, and 253—08.

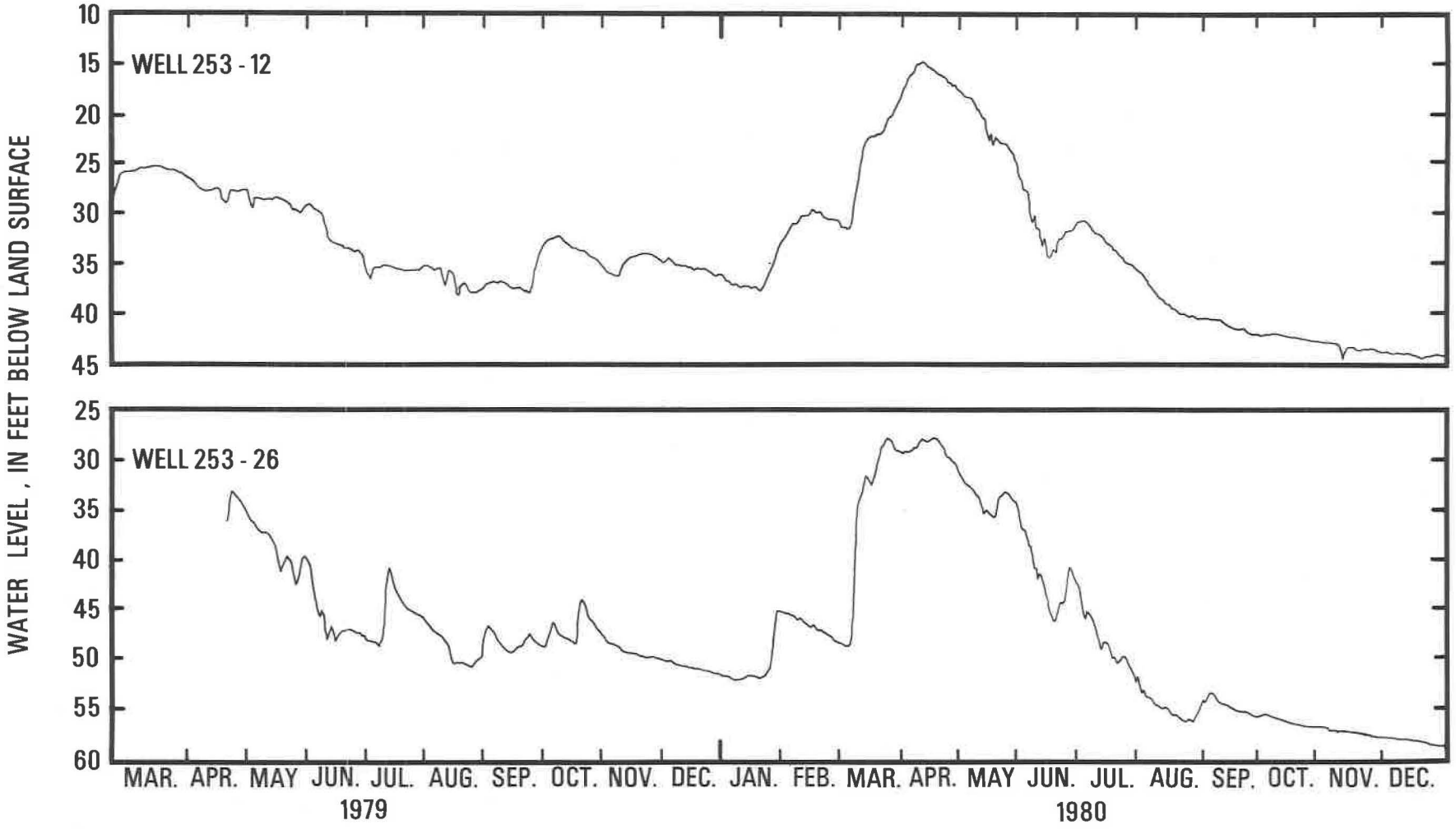


Figure 18. Hydrographs of mean daily water levels for principal artesian aquifer wells 253—12 and 253—26.

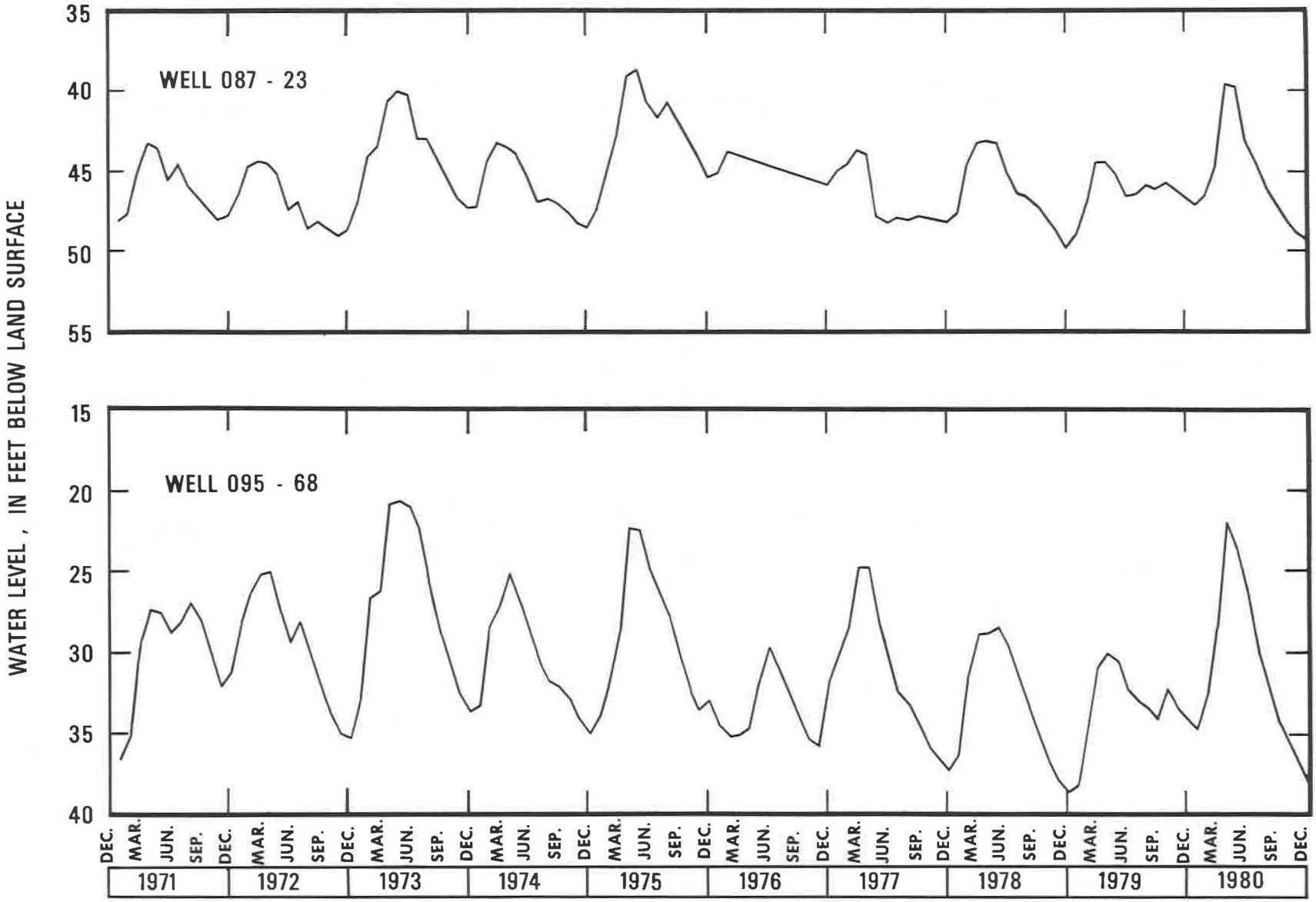


Figure 19. Hydrographs of mean monthly water levels for principal artesian aquifer wells 087--23 and 095—68.

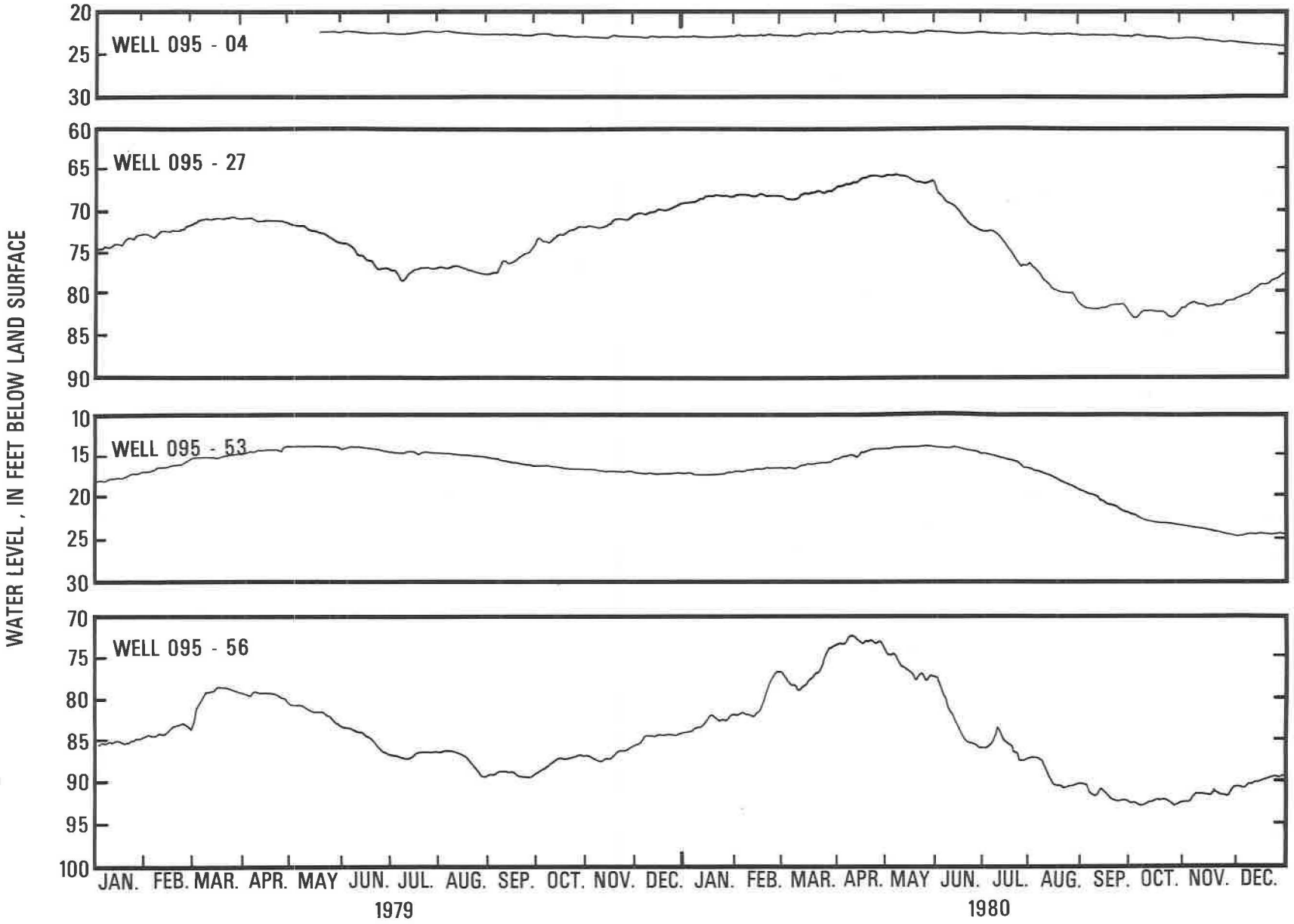


Figure 20. Hydrographs of mean daily water levels for Tallahatta aquifer wells 095—04, 095—27, 095—53, and 095—56.

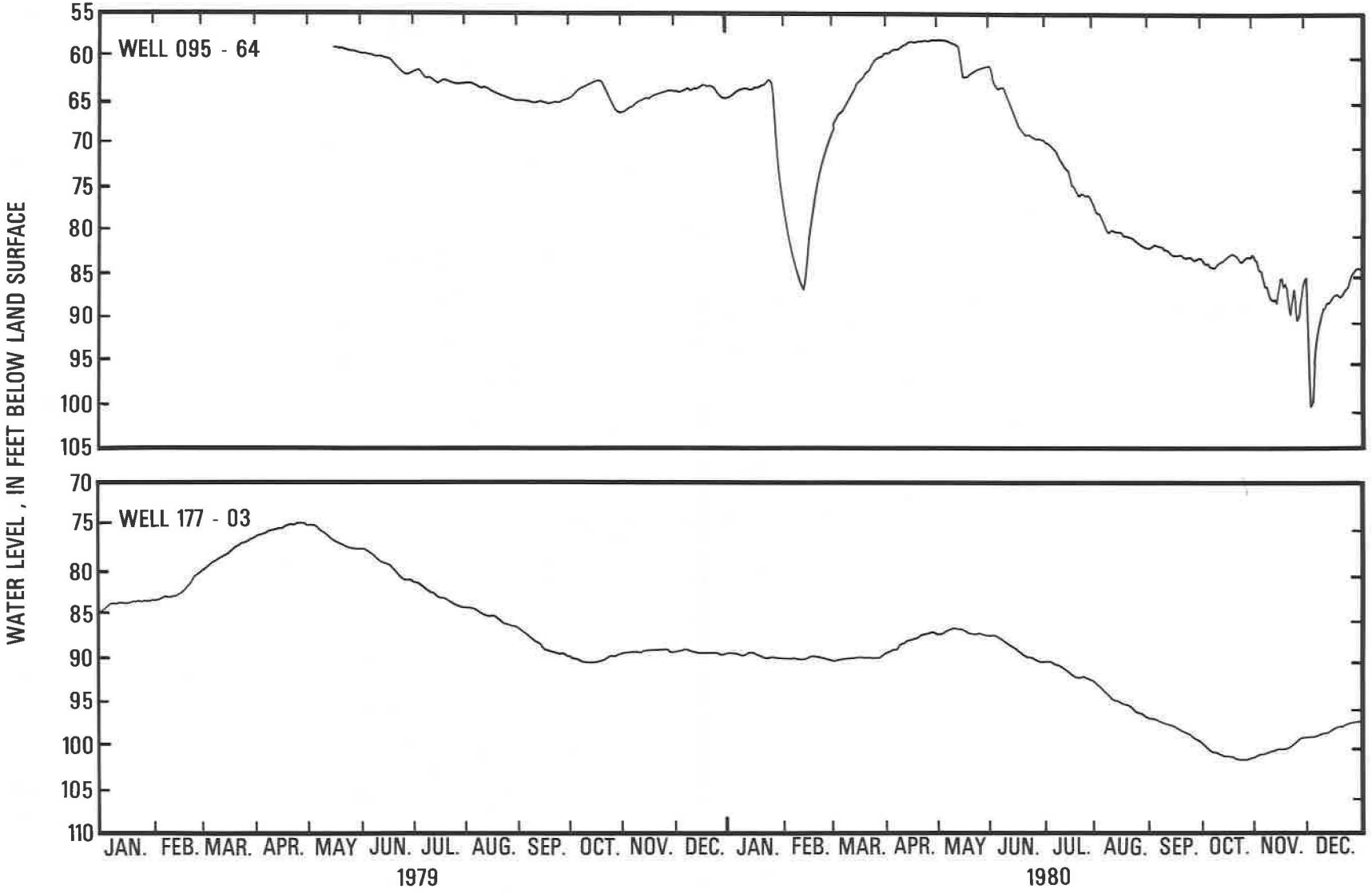


Figure 21. Hydrographs of mean daily water levels for Tallahatta aquifer wells 095—64 and 177—03.

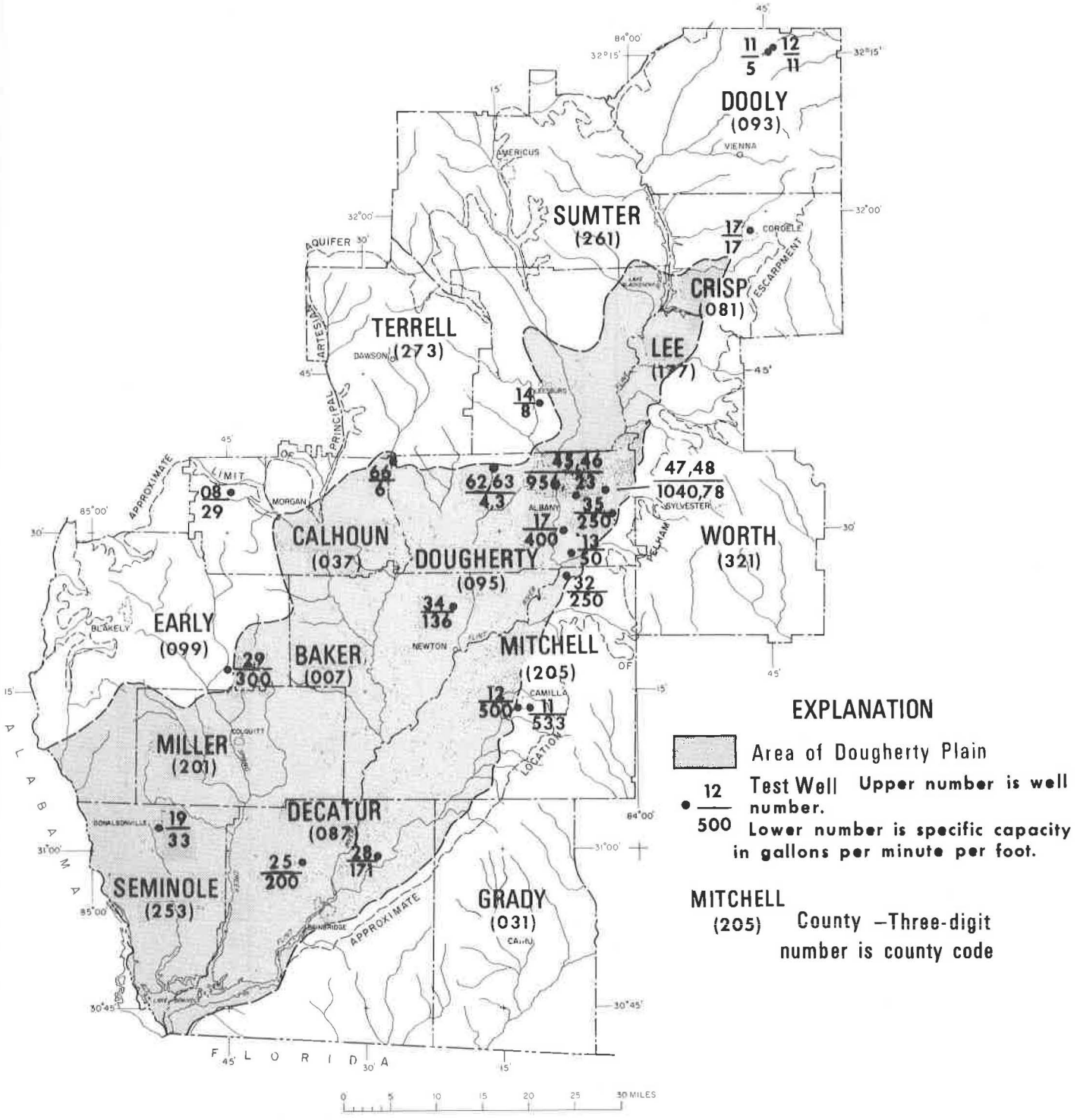


Figure 22. Locations of principal artesian aquifer wells for which specific-capacity data are given in table 48.

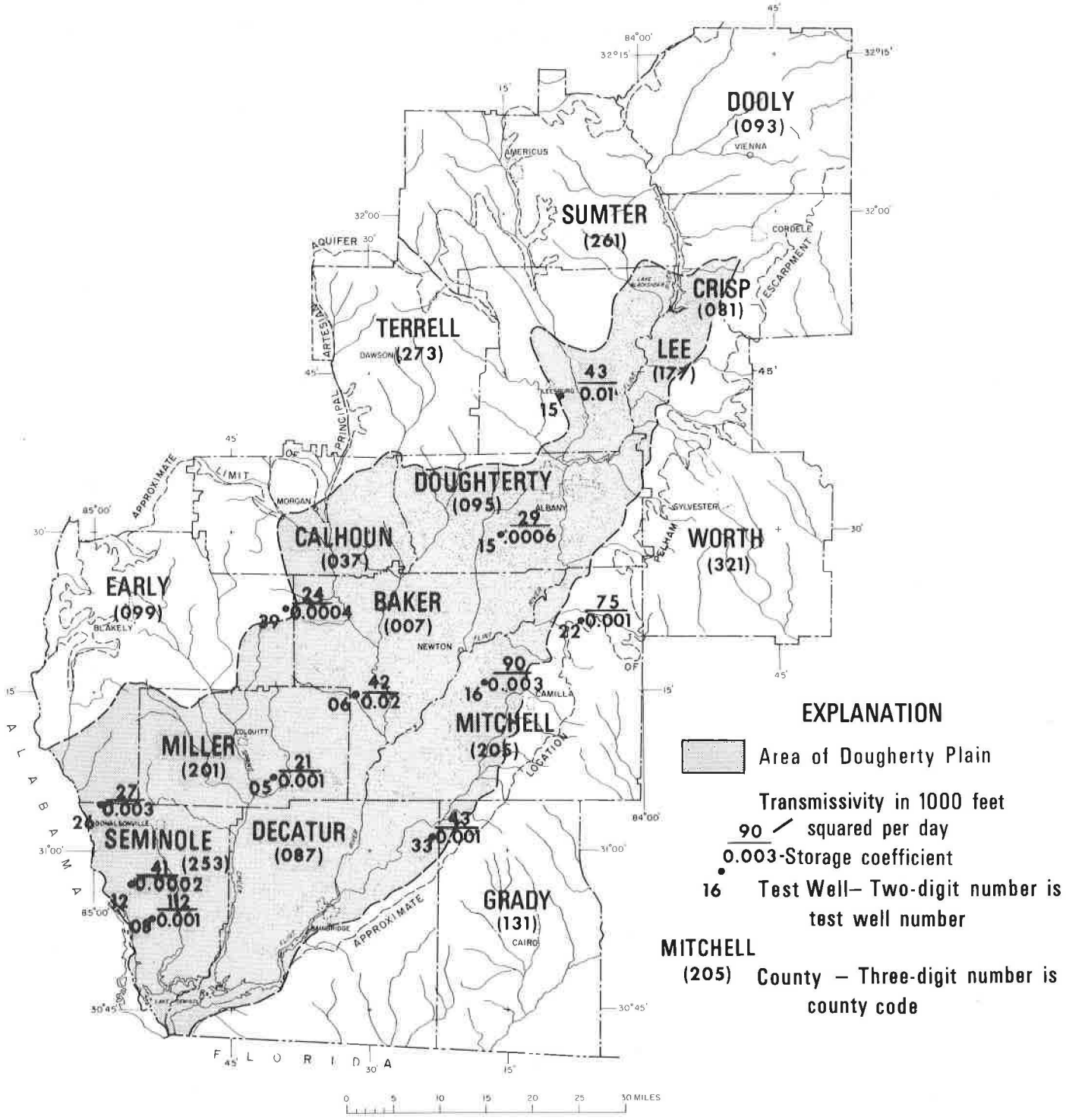
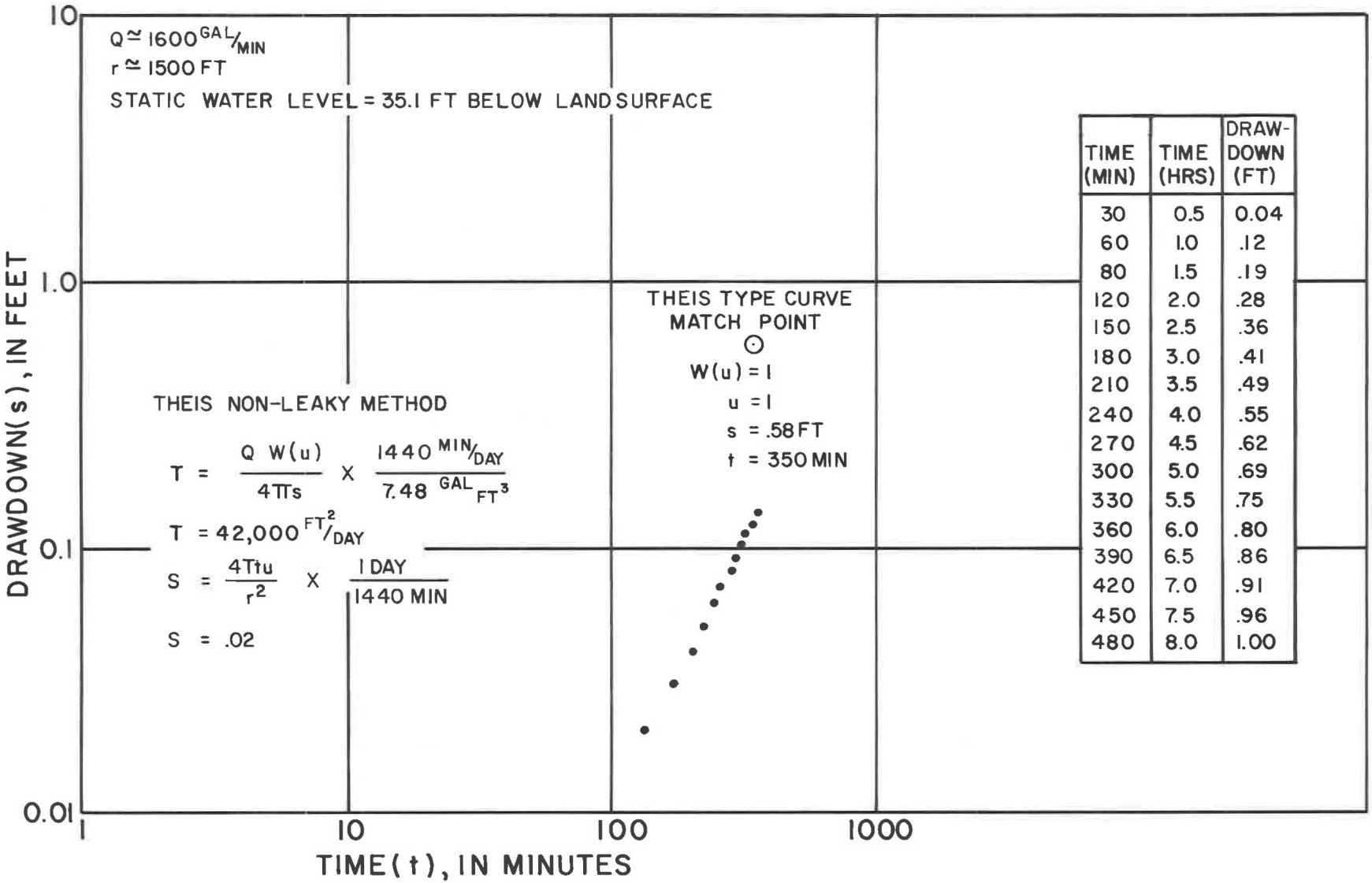


Figure 23. Locations of principal artesian aquifer tests for which transmissivity and storage coefficient data are given in table 49 and figures 24–34.



TIME (MIN)	TIME (HRS)	DRAW-DOWN (FT)
30	0.5	0.04
60	1.0	.12
80	1.5	.19
120	2.0	.28
150	2.5	.36
180	3.0	.41
210	3.5	.49
240	4.0	.55
270	4.5	.62
300	5.0	.69
330	5.5	.75
360	6.0	.80
390	6.5	.86
420	7.0	.91
450	7.5	.96
480	8.0	1.00

Figure 24. Aquifer test results for principal artesian aquifer well 007—06.

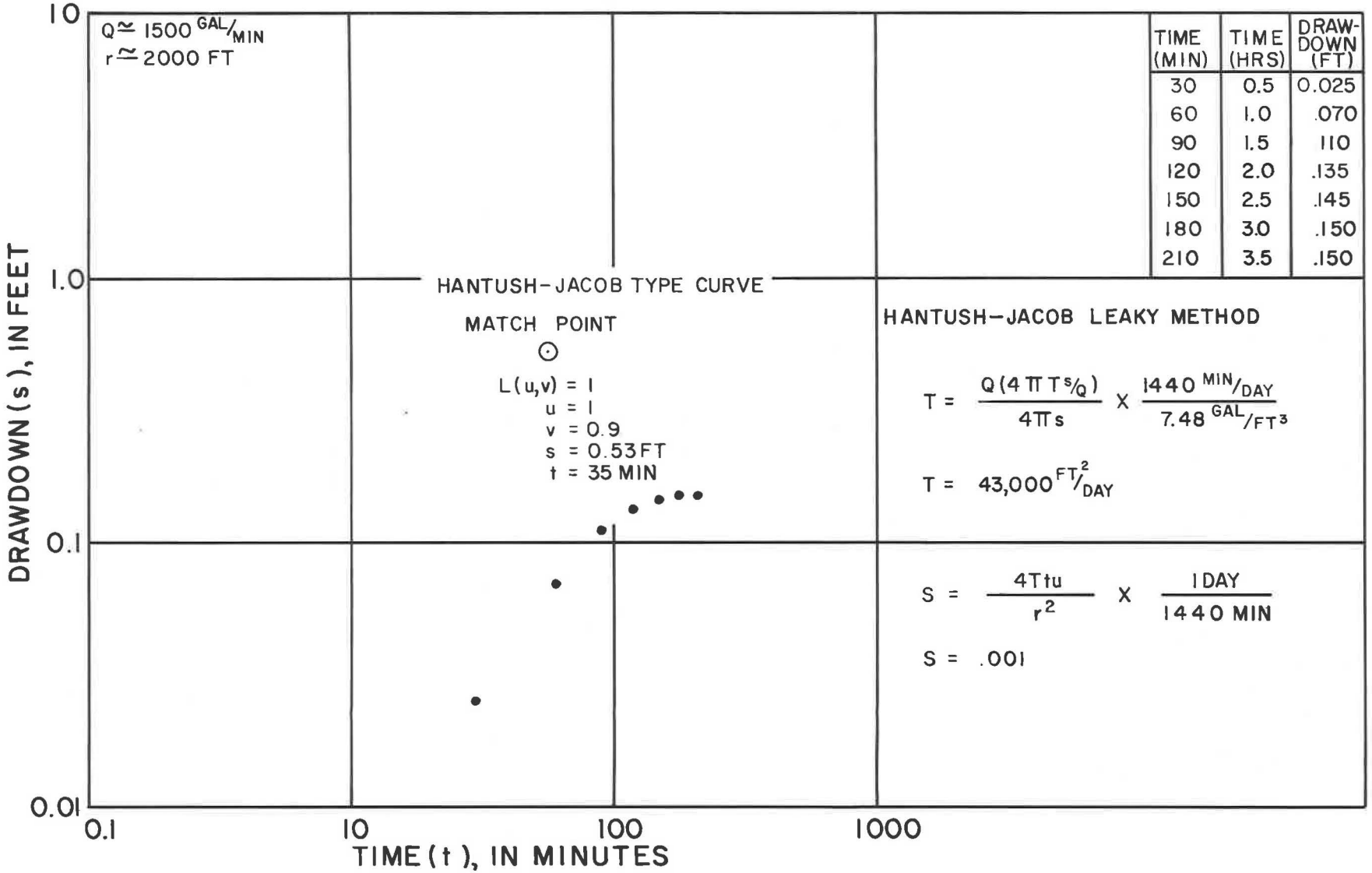
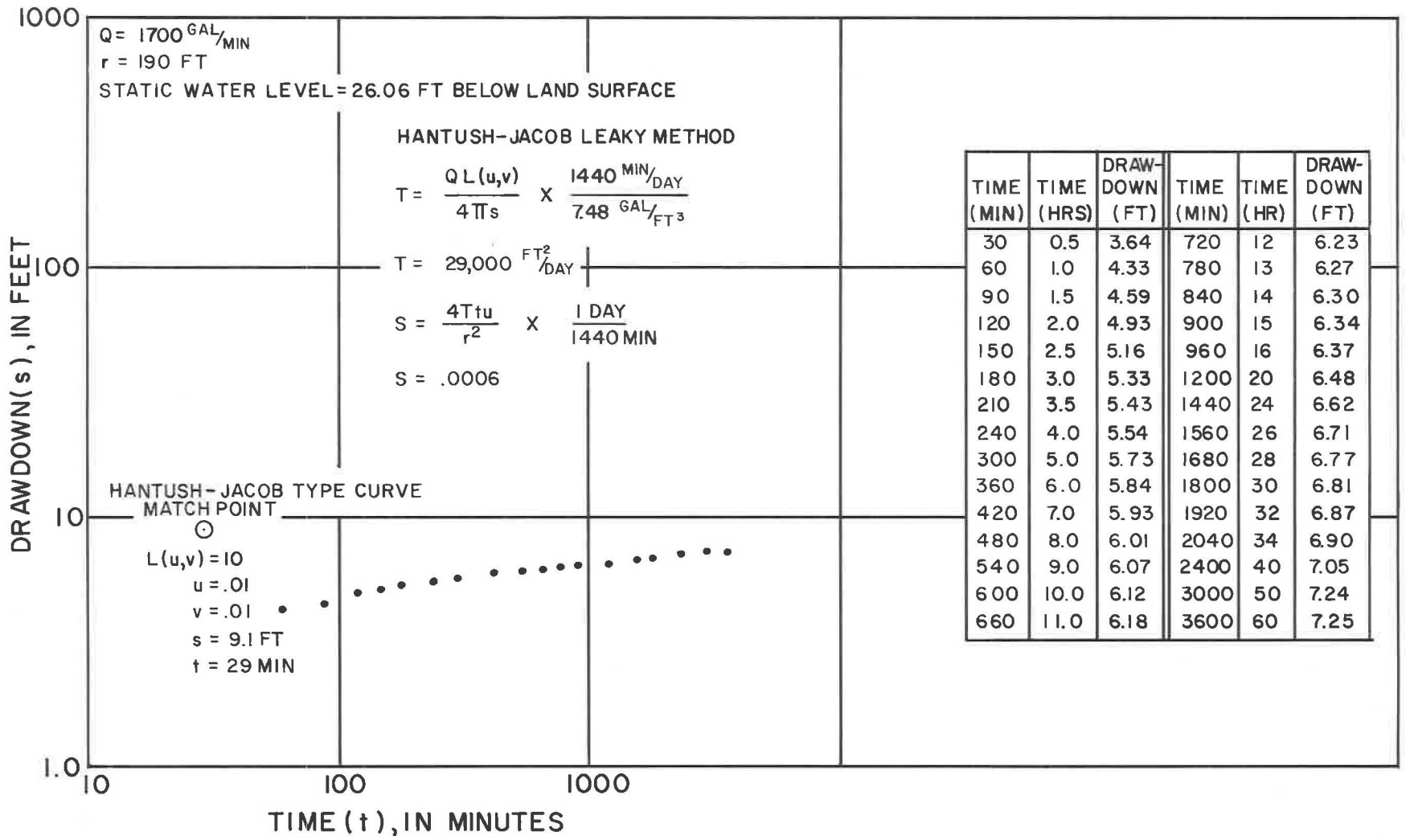
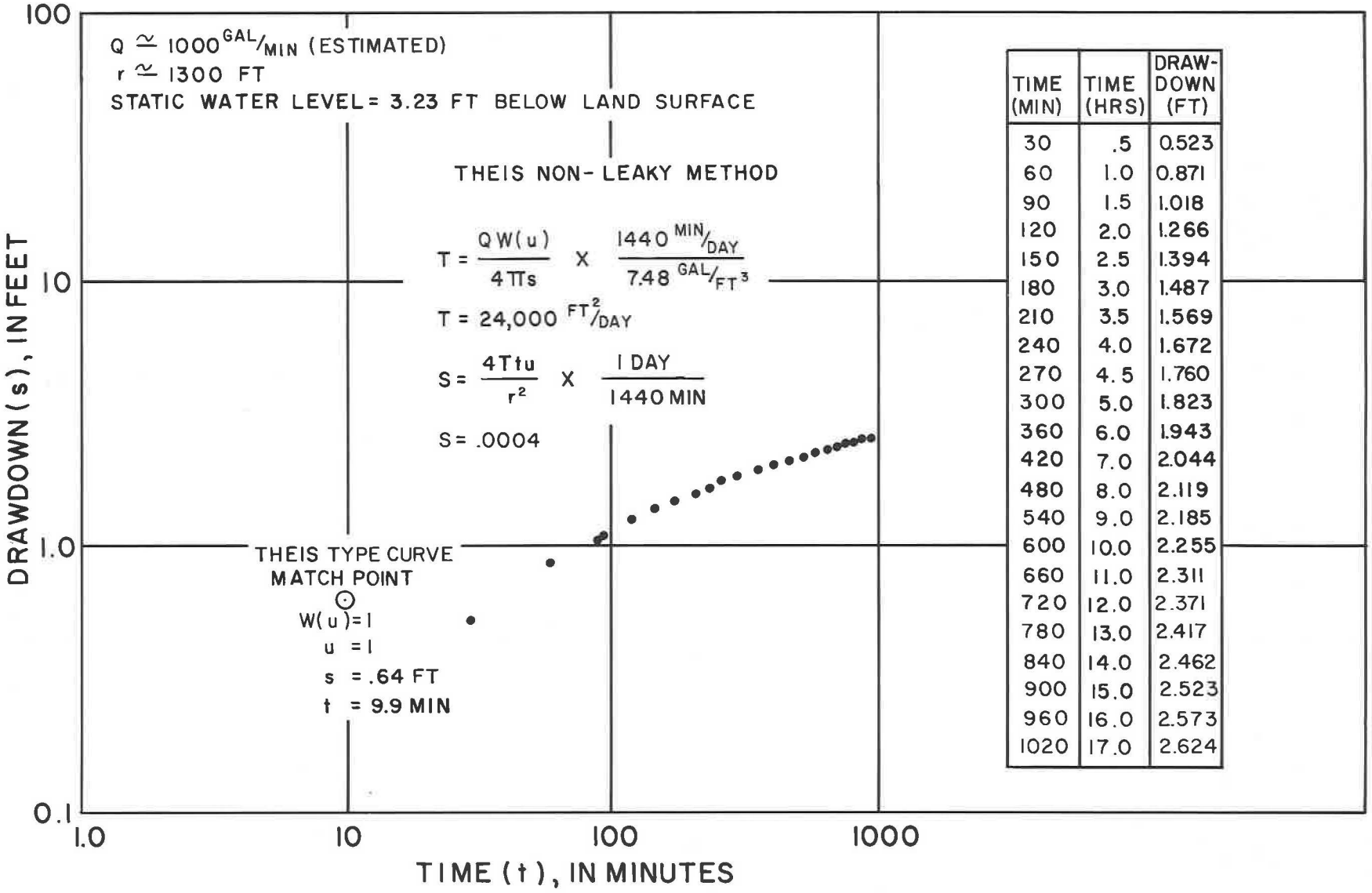


Figure 25. Aquifer test results for principal artesian aquifer well 087—33.



TIME (MIN)	TIME (HRS)	DRAW-DOWN (FT)	TIME (MIN)	TIME (HR)	DRAW-DOWN (FT)
30	0.5	3.64	720	12	6.23
60	1.0	4.33	780	13	6.27
90	1.5	4.59	840	14	6.30
120	2.0	4.93	900	15	6.34
150	2.5	5.16	960	16	6.37
180	3.0	5.33	1200	20	6.48
210	3.5	5.43	1440	24	6.62
240	4.0	5.54	1560	26	6.71
300	5.0	5.73	1680	28	6.77
360	6.0	5.84	1800	30	6.81
420	7.0	5.93	1920	32	6.87
480	8.0	6.01	2040	34	6.90
540	9.0	6.07	2400	40	7.05
600	10.0	6.12	3000	50	7.24
660	11.0	6.18	3600	60	7.25

Figure 26. Aquifer test results for principal artesian aquifer well 095—15.



TIME (MIN)	TIME (HRS)	DRAW-DOWN (FT)
30	.5	0.523
60	1.0	0.871
90	1.5	1.018
120	2.0	1.266
150	2.5	1.394
180	3.0	1.487
210	3.5	1.569
240	4.0	1.672
270	4.5	1.760
300	5.0	1.823
360	6.0	1.943
420	7.0	2.044
480	8.0	2.119
540	9.0	2.185
600	10.0	2.255
660	11.0	2.311
720	12.0	2.371
780	13.0	2.417
840	14.0	2.462
900	15.0	2.523
960	16.0	2.573
1020	17.0	2.624

Figure 27. Aquifer test results for principal artesian aquifer well 099—39.

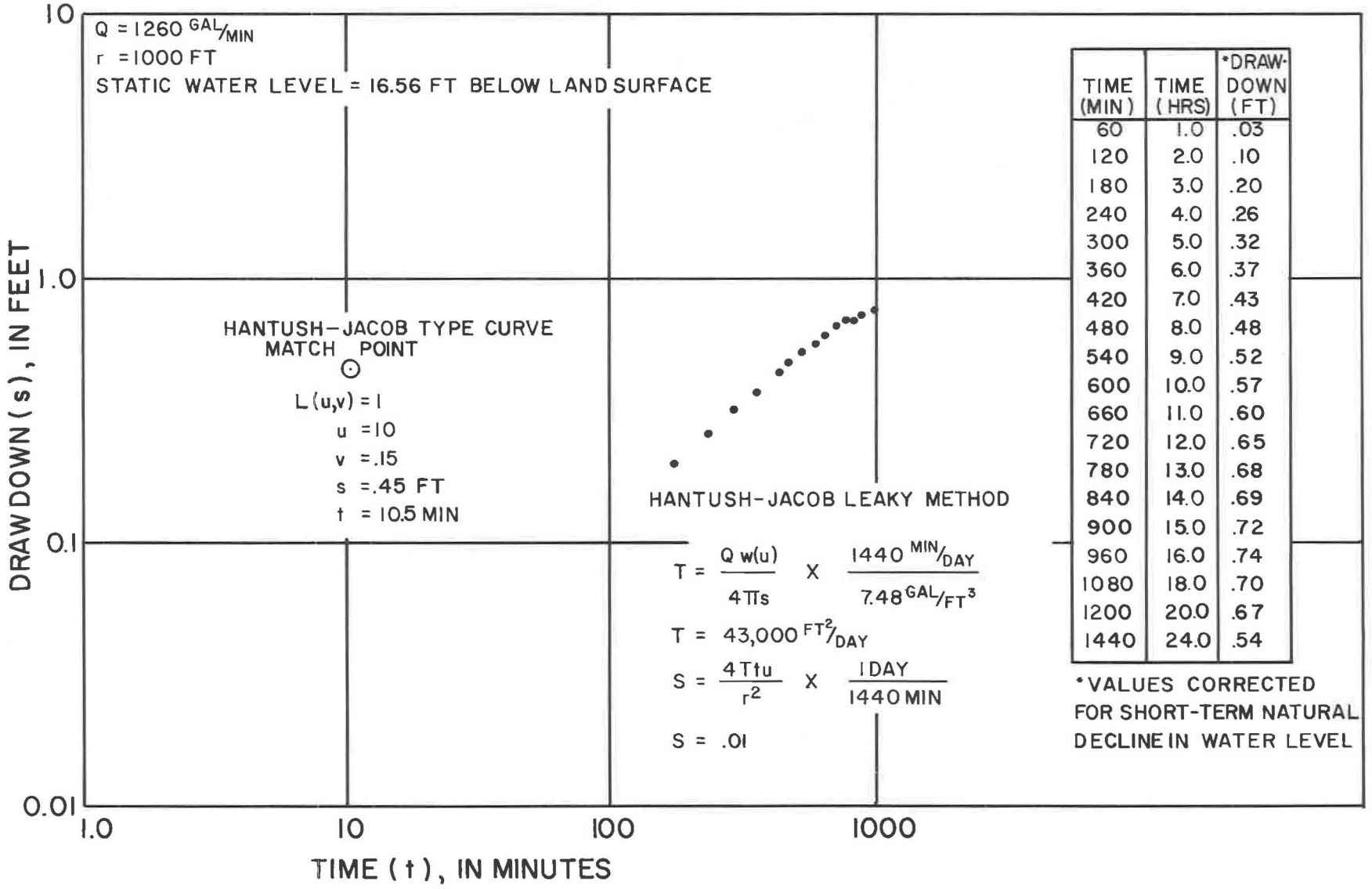
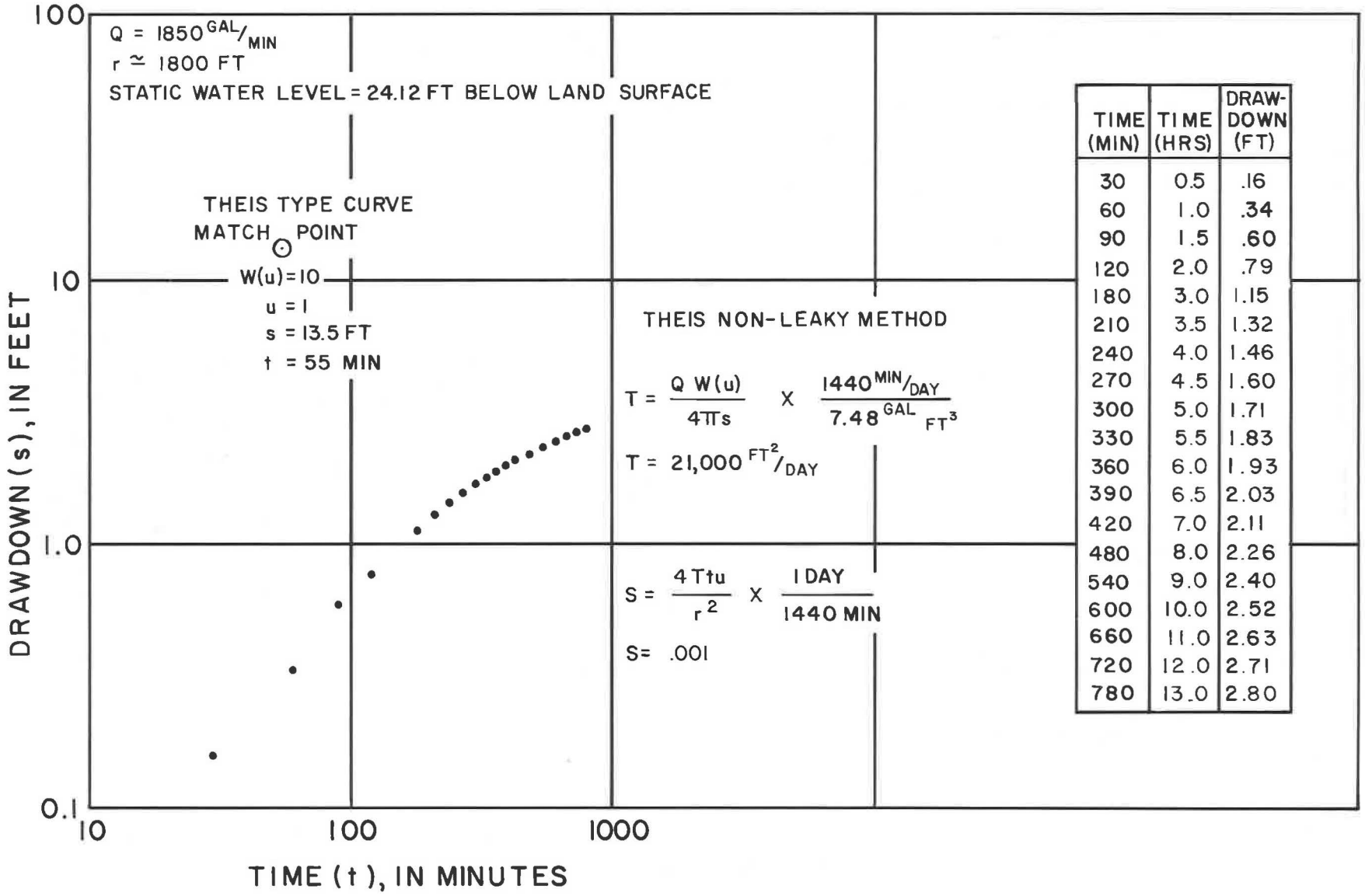


Figure 28. Aquifer test results for principal artesian aquifer well 177–15.



TIME (MIN)	TIME (HRS)	DRAW-DOWN (FT)
30	0.5	.16
60	1.0	.34
90	1.5	.60
120	2.0	.79
180	3.0	1.15
210	3.5	1.32
240	4.0	1.46
270	4.5	1.60
300	5.0	1.71
330	5.5	1.83
360	6.0	1.93
390	6.5	2.03
420	7.0	2.11
480	8.0	2.26
540	9.0	2.40
600	10.0	2.52
660	11.0	2.63
720	12.0	2.71
780	13.0	2.80

Figure 29. Aquifer test results for principal artesian aquifer well 201—05.

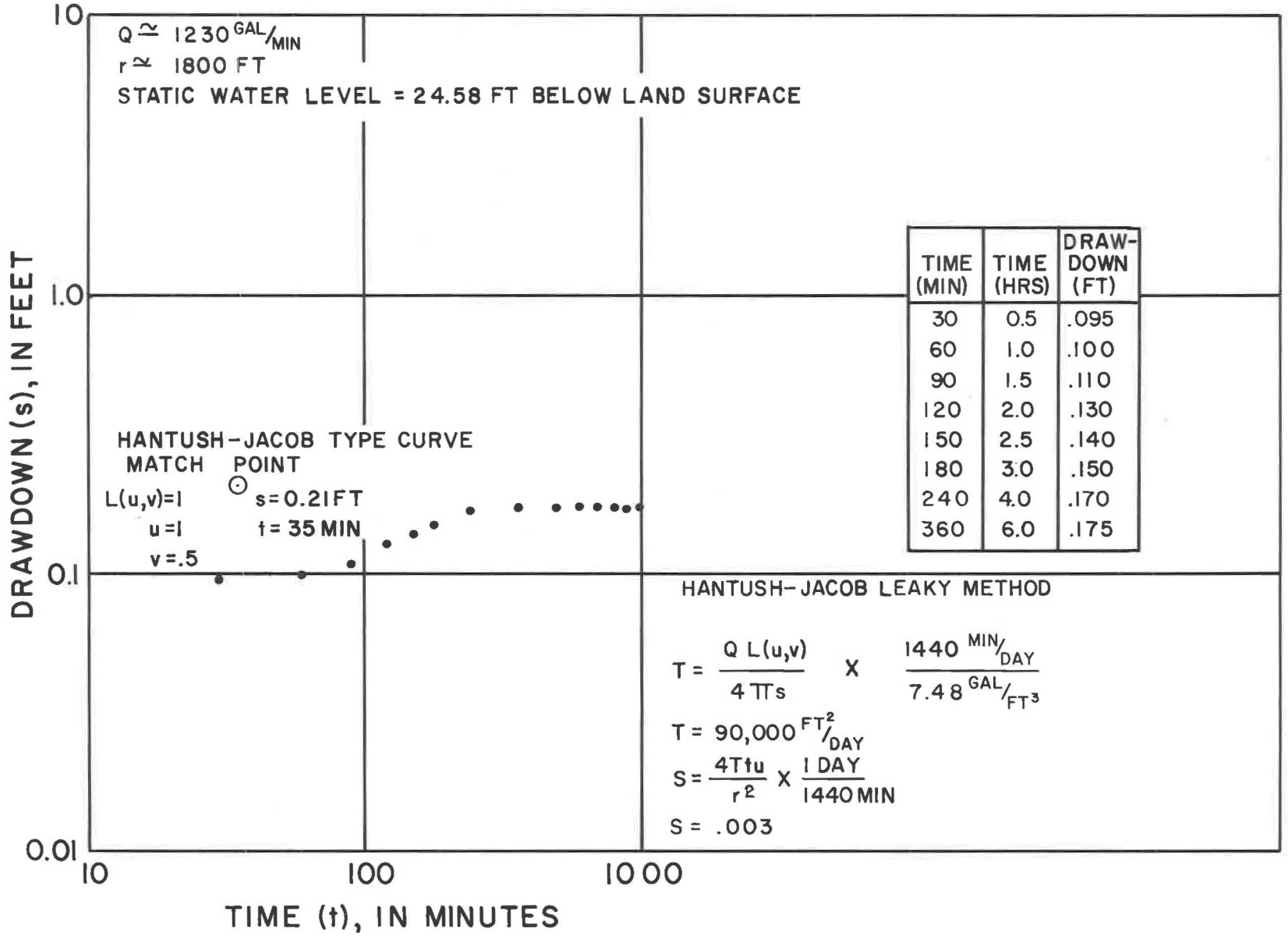


Figure 30. Aquifer test results for principal artesian aquifer well 205—16.

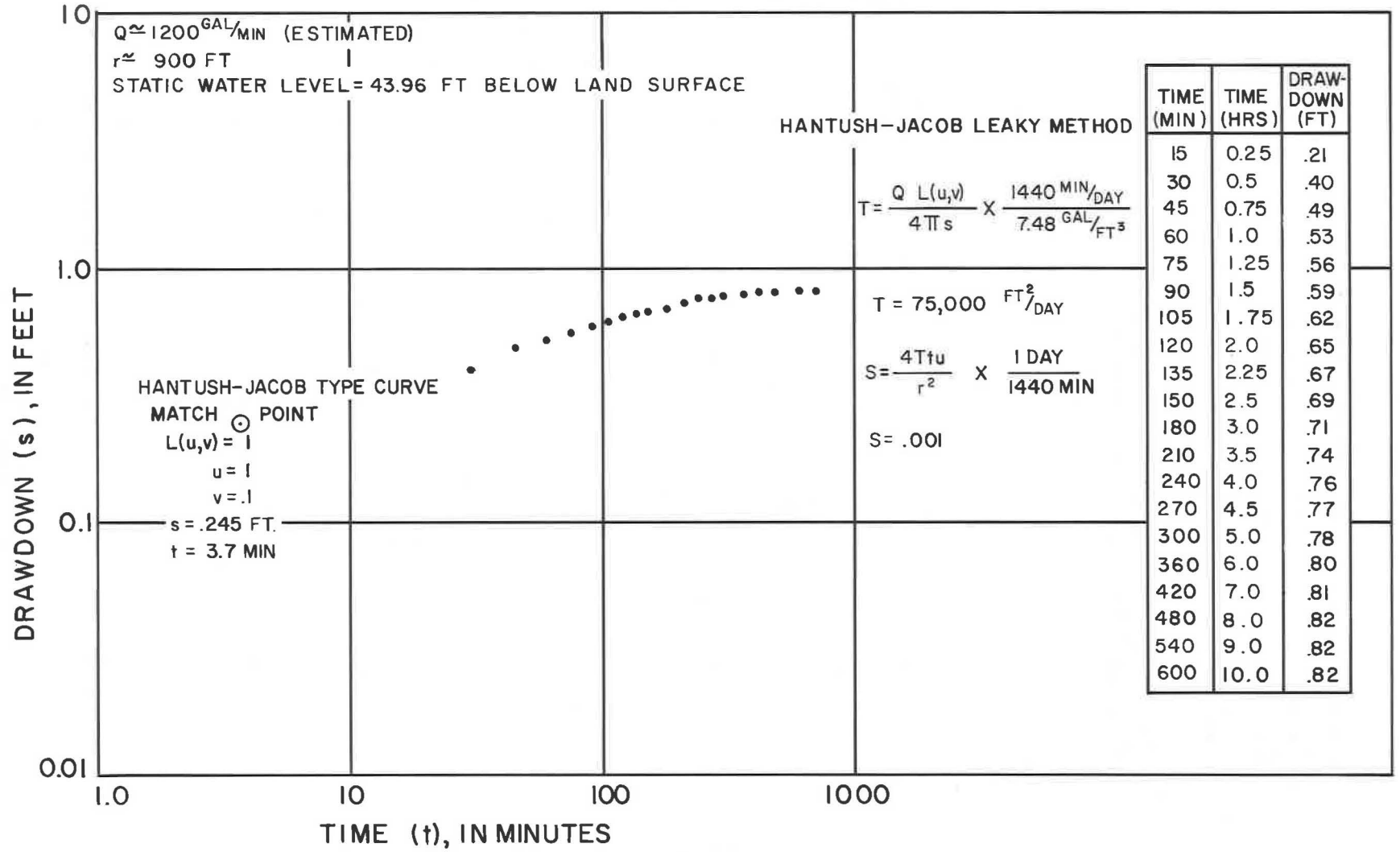
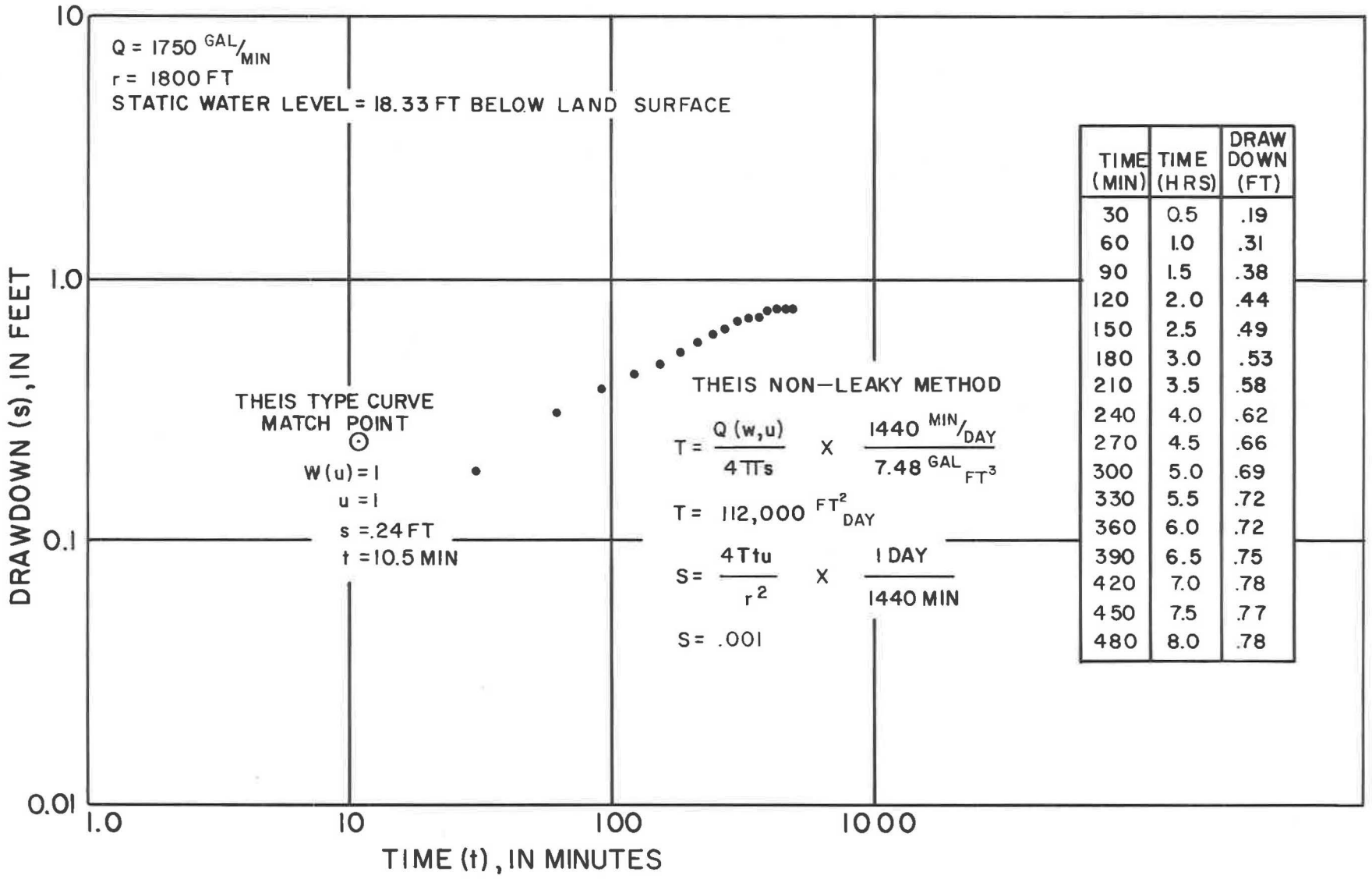
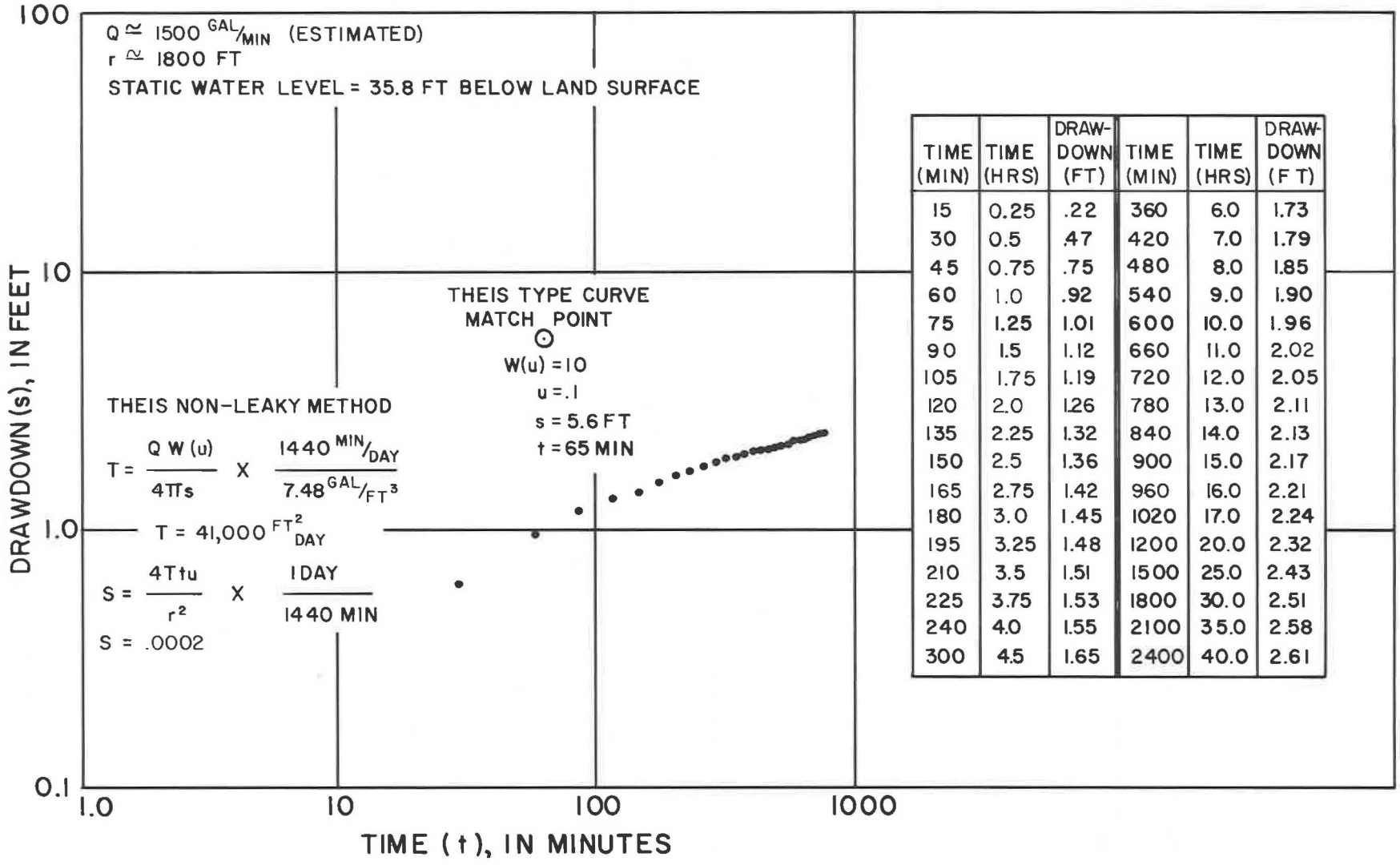


Figure 31. Aquifer test results for principal artesian aquifer well 205—22.



TIME (MIN)	TIME (HRS)	DRAW DOWN (FT)
30	0.5	.19
60	1.0	.31
90	1.5	.38
120	2.0	.44
150	2.5	.49
180	3.0	.53
210	3.5	.58
240	4.0	.62
270	4.5	.66
300	5.0	.69
330	5.5	.72
360	6.0	.72
390	6.5	.75
420	7.0	.78
450	7.5	.77
480	8.0	.78

Figure 32. Aquifer test results for principal artesian aquifer well 253—08.



TIME (MIN)	TIME (HRS)	DRAW-DOWN (FT)	TIME (MIN)	TIME (HRS)	DRAW-DOWN (FT)
15	0.25	.22	360	6.0	1.73
30	0.5	.47	420	7.0	1.79
45	0.75	.75	480	8.0	1.85
60	1.0	.92	540	9.0	1.90
75	1.25	1.01	600	10.0	1.96
90	1.5	1.12	660	11.0	2.02
105	1.75	1.19	720	12.0	2.05
120	2.0	1.26	780	13.0	2.11
135	2.25	1.32	840	14.0	2.13
150	2.5	1.36	900	15.0	2.17
165	2.75	1.42	960	16.0	2.21
180	3.0	1.45	1020	17.0	2.24
195	3.25	1.48	1200	20.0	2.32
210	3.5	1.51	1500	25.0	2.43
225	3.75	1.53	1800	30.0	2.51
240	4.0	1.55	2100	35.0	2.58
300	4.5	1.65	2400	40.0	2.61

Figure 33. Aquifer test results for principal artesian aquifer well 253—12.

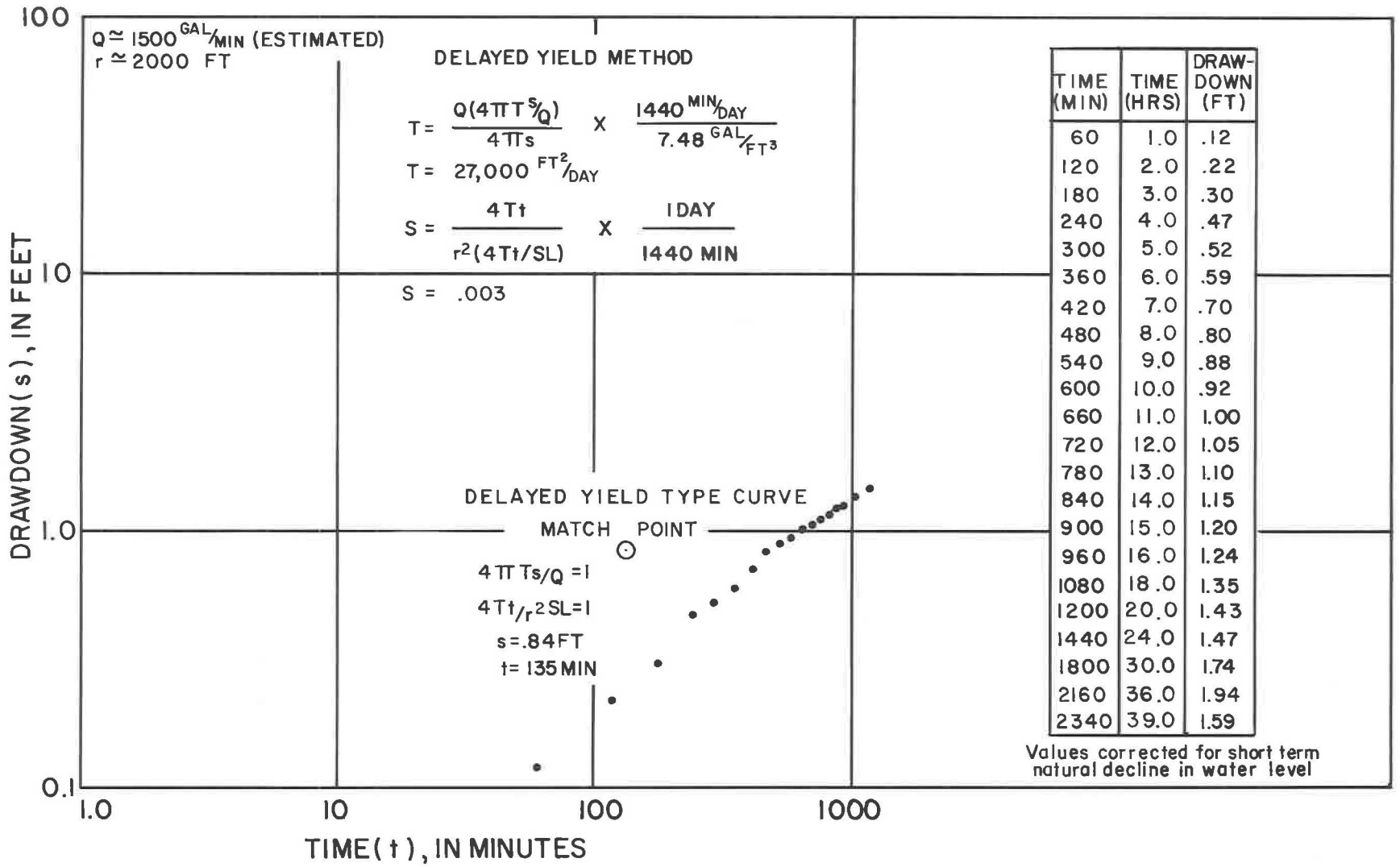


Figure 34. Aquifer test results for principal artesian aquifer well 253—26.

Table 1.--Records of selected wells in the Dougherty Plain and adjacent areas.

[Well number: number used to identify wells in the report and to locate wells on maps. Site identification number: refer to text for explanation. Principal aquifer: RSDM, residuum; PCPA, principal artesian aquifer; TLLT, Tallahatta, CLBR, Claiborne; CLTN, Clayton; TERT, Tertiary; and CRCS, Cretaceous. Use of water: C, commercial; H, domestic; I, irrigation; N, industrial; P, public supply; R, recreation; and U, unused. Type of logs: C, caliper; D, drillers; E, electric; G, geologist; J, gamma; N, neutron; T, temperature; U, gamma-gamma; V, fluid velocity; and Z, other. Type of water-quality data: B, common chemical; C, trace elements; D, pesticides; and E, nutrients and organics; m, most of the above. Frequency of collection of water-level data: C, continuous; I, intermittent; M, monthly; O, one time only; S, semiannually; W, weekly; and Z, other]

Well number	Site identification number	Name of well	Owner	Land surface altitude (ft above NGVD)	Well: Depth (ft below land)	Well: Casing (ft below land)	Principal aquifer	Well construction	Use of water	Logs available	Water quality	Water level
Baker County (007)												
01	310624084312401	Drew Hillard	Drew Hillard	135	180	126	PCPA	--	I	-	-	S
02	310905084311401	L. and E. Moore	L. and E. Moore	152	215	148	PCPA	--	I	-	-	S
03	311149084301701	Leslie Rentz	Leslie Rentz	127	180	90	PCPA	--	I	-	-	S
04	311243084292601	Larry Cook	Larry Cook	152	100	32	PCPA	--	I	-	-	S
05	311413084282401	R. W. Woodruff	R. W. Woodruff	157	346	-	PCPA	--	-	-	B E	-
06	311444084315201	Jo-Su-Li Farm, TW #1	Jo-Su-Li Farm	160	180	79	PCPA	04-01-79	U	G	M	C
07	311521084314301	Mimsville #1	Mimsville, Ga.	190	158	9	PCPA	--	P	E J	-	-
08	311537084245001	A. L. Kelly #2	A. L. Kelly	148	185	60	PCPA	--	I	-	-	S
09	311545084360601	R. H. Jones #1	R. H. Jones	193	155	65	PCPA	--	I	-	-	S
10	311610084352101	Horace Worsley	Horace Worsley	179	-	-	-	--	I	-	-	S
11	311622084234501	A. L. Kelly #1	A. L. Kelly	158	200	60	PCPA	--	I	-	-	S
12	311627084212101	M. L. Shiver	M. L. Shiver	165	175	42	PCPA	--	I	-	-	S
13	311721084240201	Hopson Irwin #1	Hopson Irwin	170	138	110	PCPA	--	I	-	-	S
14	311725084255501	W. C. Newberry	W. C. Newberry	168	-	-	-	--	I	-	-	S
15	311749084320901	Gary Heard #1	Gary Heard	175	170	120	PCPA	--	I	-	-	S
16	311806084233701	Hopson Irwin #2	Hopson Irwin	173	110	80	PCPA	--	I	-	-	S
17	311823084341801	Bill Bryan #1	Bill Bryan	203	245	100	PCPA	--	I	-	-	S
18	311832084210601	Weyman Rooks #2	Weyman Rooks	170	190	70	PCPA	--	I	-	-	S
19	311843084244501	W. L. Forrester	W. L. Forrester	180	140	70	PCPA	--	I	-	-	S
20	312000084371501	W. P. Smith	W. P. Smith	242	401	356	-	--	-	C E G	-	S
21	312001084311401	R. H. Jones #2	R. H. Jones	155	-	-	-	--	I	-	-	S
22	312001084330701	Jerome Phillips	Jerome Phillips	175	150	80	PCPA	--	I	-	-	S
23	312006084345501	Bill Bryan #2	Bill Bryan	198	120	100	PCPA	--	I	-	-	S
24	312030084380201	W. P. Smith #2	W. P. Smith	233	104	65	PCPA	--	I	-	-	S
25	312055084285401	Elmodel #1	Elmodel, Ga.	158	661	-	CLBR	--	-	-	B E	-
26	312101084274301	McRainey Estates	McRainey Estates	165	610	365	CLBR	--	-	E J G	-	-
27	312107084375901	W. P. Smith #2	W. P. Smith	220	100	50	PCPA	--	I	-	-	S
28	312129084201701	Robert Hawkins #1	Robert Hawkins	168	190	63	PCPA	--	I	-	-	S
29	312139084314001	Thomas Rentz	Thomas Rentz	158	100	70	PCPA	--	I	-	-	S
30	312140084204001	W. D. Drennon	W. D. Drennon	174	150	50	PCPA	--	I	-	-	S
31	312204084214301	Wayne Heard #3	Wayne Heard	170	200	60	PCPA	--	I	-	-	S
32	312251084234701	Jack Heard #1	Jack Heard	188	300	75	PCPA	--	I	-	-	S
33	312251084371701	Fieldstone Farms #1	Fieldstone Farms, Inc.	195	-	-	-	--	I	-	-	S
34	312253084200501	Wallington #1	Ag-Timber Development Corp.	172	180	72	PCPA	--	I	-	-	S
35	312300084212801	Wallington #4	Ag-Timber Development Corp.	182	-	-	PCPA	--	I	-	-	S
36	312521084121201	Blue Springs #3	Blue Springs Plantation	190	-	-	PCPA	--	I	-	-	S
37	312533084110201	Blue Springs #4	Blue Springs Plantation	180	-	-	PCPA	--	I	-	-	S
38	312131084314102	Tom Rentz RW	USGS/GGS	155	16	6	RSDM	10-15-80	U	G J	M	W
39	311444084315602	Jo-Su-Li Farm RW	USGS/GGS	160	20	10	RSDM	10-16-80	U	G J	M	W
Calhoun County (037)												
01	312635084431301	Arlington #1	Arlington, Ga.	300	700	538	TERT	1969	P	E	B E	-
02	312657084445801	Tri County Farm	Tri County Farm	228	138	40	TERT	--	I	-	-	S
03	312819084404001	JMJ Farm #2	JMJ Farm	252	210	-	TERT	--	I	-	-	S
04	312828084275701	Bill Jordan	Bill Jordan	200	210	58	TERT	--	I	-	-	S
05	312835084394801	JMJ Farm #1	JMJ Farm	252	225	100	TERT	--	I	-	-	S
06	313049084271801	Magnolia Plantation	Magnolia Plantation	220	124	104	PCPA	--	I	-	-	S
07	313203084273801	Ducker Plantation	Ducker Plantation	209	150	68	PCPA	05-02-69	I	-	-	-
08	313331084441801	Edison #1	Edison, Ga.	289	515	395	TERT	--	P	G	-	-
09	313435084471501	Lester McNair #1	Lester McNair	352	140	103	TLLT	--	-	-	-	I
10	313532084283501	C. Martin	C. Martin	230	150	42	PCPA	--	I	-	-	S
24	312852084275201	Bill Jordan Ocala	USGS/GGS	192	142	40	PCPA	06-30-80	U	G J	M	W
25	312852084275202	Bill Jordan RW	USGS/GGS	192	30	20	RSDM	07-28-80	U	G J	M	W
Crisp County (081)												
01	315121083560201	J. T. Williams	J. T. Williams	241	240	-	TERT	--	-	-	B E	-
02	315400083460701	G. B. Smith	G. B. Smith	328	90	70	PCPA	1932	H	-	-	-
03	315412083501301	G. Perry	G. Perry	300	150	100	PCPA	1915	H	-	-	-
04	315435083495301	A. J. Stephens	A. J. Stephens	279	184	92	PCPA	--	H	-	-	-
05	315444083512101	L. F. McKinney #1	L. F. McKinney	263	105	100	PCPA	--	H	-	-	-
06	315446083471601	J. Bridges	J. Bridges	305	81	60	PCPA	--	H	-	-	-
07	315534083504301	L. F. McKinney #2	L. F. McKinney	287	80	75	PCPA	1950	H	-	-	-
08	315547083463101	L. L. Blackmon	L. L. Blackmon	316	300	101	TERT	1965	I	-	-	S
09	315555083532301	A. J. Williams	A. J. Williams	271	135	55	PCPA	1945	H	-	-	-
10	315558083435301	W. L. Wells	W. L. Wells	361	290	212	TERT	1951	-	-	B E	-

Table 1. Records of selected wells in the Dougherty Plain and adjacent areas--Continued

Well number	Site identification number	Name of well	Owner	Land surface altitude (ft above NGVD)	Well: Depth (ft below land)	Well: Casing	Principal aquifer	Well construction	Use of water	Logs available	Water quality	Water level
Crisp County (081)--Continued												
11	315602083455401	T. Clements	T. Clements	326	265	-	TERT	--	-	-	B E	-
12	315703083493601	Autry Roland	Autry Roland	286	170	90	PCPA	--	I	-	-	S
13	315724083550801	Veteran's Park #1	State of Georgia	264	124	50	PCPA	1948	P	-	B E	-
14	315728083550501	Veteran's Park #2	State of Georgia	252	130	78	PCPA	01-05-51	P	D	B C E	S
15	315743083530201	Ed Stevens #2	Ed Stevens	239	180	60	PCPA	--	H	-	-	-
16	315802083525101	Ed Stevens #1	Ed Stevens	272	150	60	PCPA	--	C	-	-	-
17	315840083464401	Crisp County Hospital	Crisp County	300	150	60	PCPA	04-04-53	C	-	-	-
18	315901083471901	G. W. Jacobs	G. W. Jacobs	279	80	70	PCPA	--	H	-	B E	-
19	315920083472701	H. Rainey	H. Rainey	304	110	-	PCPA	--	-	-	B E	-
20	315942083515501	Miller Brothers	Miller Brothers	320	200	80	TERT	--	I	-	-	S
21	320021083473401	C. Trulock	C. Trulock	336	255	149	TERT	1966	I	-	-	S
22	320113083540701	G. McKay	G. McKay	283	160	121	TERT	1966	I	-	-	S
23	320137083503101	J. H. Fenn	J. H. Fenn	319	160	100	PCPA	--	H	-	-	-
Decatur County (087)												
01	304630084434901	Joe Dollar	Joe Dollar	80	42	-	RSDM	10- -62	H	-	-	-
02	304942084404501	B. F. Cloud #1	B. F. Cloud	110	208	107	PCPA	--	I	-	-	S
03	304954084422601	B. F. Cloud #3	B. F. Cloud	90	207	100	PCPA	--	I	-	-	S
04	305013084443501	R. G. Heard	R. G. Heard					--	I	-	-	S
05	305117084420401	S. R. Poitivent	S. R. Poitivent	118	150	90	PCPA	--	I	-	-	S
06	305209084400201	E. R. Cloud	E. R. Cloud	114	125	60	PCPA	--	I	-	-	S
07	305219084461001	Dickel #1	Alvin Newton	200	110	-	PCPA	--	-	-	B C E	-
08	305229084334401	Palmer Motel	Palmer Motel	108	375	231	PCPA	--	I	-	-	S
09	305235084441601	Alvin Newton TW South	Alvin Newton	115	145	60	PCPA	12-19-78	U	G	M	C
10	305247084442501	Alvin Newton TW North	Alvin Newton	120	185	76	PCPA	12-19-78	U	G	M	C
11	305315084323001	Luther Swicord	Luther Swicord	100	486	165	TERT	--	U	-	-	-
12	305326084383901	Cloud #2	Alvin Newton	118	-	-	-	--	I	-	-	S
13	305335084361001	Ga. Port Authority	Georgia Port Authority	80	350	70	PCPA	--	C	-	-	-
14	305412084305401	H. M. Whitley	H. M. Whitley	118	88	-	PCPA	--	-	-	B E	-
15	305420084314101	A. J. Newton	A. J. Newton	112	105	-	PCPA	--	-	-	B E	-
16	305436084343001	Bainbridge #3	Bainbridge, Ga.	130	466	144	TERT	--	P	-	-	-
17	305523084391401	Alvin Newton	Alvin Newton	115	193	103	PCPA	--	I	-	-	S
18	305551084391501	Trading Post	Alvin Newton	115	200	100	PCPA	--	I	-	B E	-
19	305618084401801	C. W. White	C. W. White	126	83	-	PCPA	--	-	-	B E	-
20	305624084391401	A-46	Alvin Newton	121	186	100	PCPA	--	I	-	-	S
21	305651084362401	Rentz	Marvin Rentz	130	200	120	PCPA	--	I	-	-	S
22	305732084302201	Dewey Brock	Dewey Brock	119	-	-	-	--	I	-	-	S
23	305736084355802	Graham Bolton #1	Graham Bolton	128	251	130	PCPA	--	U	-	B E	C
24	305848084434801	Heard	R. G. Heard	120	266	112	PCPA	--	I	-	-	S
25	305853084364601	Bainbridge Mills #2	Bainbridge Mills	130	240	45	PCPA	--	C	-	-	S
26	305905084384901	Bainbridge Mills #1	Bainbridge Mills	122	127	63	PCPA	--	C	-	-	S
27	305921084401001	Rentz	Marvin Rentz	130	182	82	PCPA	--	I	-	-	S
28	305929084282401	J. C. Dollar	J. C. Dollar	140	200	100	PCPA	--	I	-	-	-
29	305950084285401	Dollar Brothers Farm	Dollar Brothers	140	205	-	PCPA	--	I	-	-	S
30	305953084390001	D. W. Aultman	D. W. Aultman	132	311	180	PCPA	--	I	-	-	S
31	310025084432801	R. G. Heard	R. G. Heard	122	70	50	PCPA	--	I	-	-	S
32	310047084421301	Bridges #1	Alvin Newton	109	170	-	PCPA	--	-	-	B C E	-
33	310117084231501	Joe Hall TW #1	Joe Hall	142	160	88	PCPA	03-15-79	U	G	M	C
34	310133084273201	R. L. Dean	R. L. Dean	137	225	210	PCPA	--	I	-	-	S
35	310136084225101	Lowell Dollar	Lowell Dollar	135	200	100	PCPA	--	I	-	-	-
36	310136084411701	Lambert	--	125	165	90	PCPA	--	I	-	-	S
37	310215084325201	Humphrey	Robert Humphrey	141	242	109	PCPA	--	I	-	-	S
38	310233084375201	Luther Griffin	Luther Griffin	131	210	102	PCPA	--	I	-	-	S
39	310242084301101	Richard Smith #1	Richard Smith	-	-	-	-	--	I	-	B C E	S
40	310407084245301	Vada Mfg. Co.	Vada Manufacturing Co.	145	116	108	PCPA	08-01-66	N	-	-	-
41	310422084370301	Albert Franklin	Albert Franklin	140	167	120	PCPA	--	I	-	-	S
42	310428084310501	USGS TW DP-4	USGS	145	455	382	TLLT	01-22-80	U	C G J	M	C
43	310428084310502	USGS TW DP-5	USGS	145	90	54	PCPA	01-25-80	U	G	M	C
44	310428084310503	USGS TW DP-6	USGS	145	40	30	RSDM	01-18-80	U	G	M	C
45	310117084231502	Joe Hall RW	USGS/GGS	135	35	20	RSDM	10-15-80	U	G J	M	W
46	305736084355802	Graham Bolton RW	USGS/GGS	128	27	17	RSDM	11-17-80	U	G J	M	W
47	305247084442401	Alvin Newton RW	USGS/GGS	112	39	29	RSDM	11-19-80	U	G J	M	W
Dooly County (093)												
01	320157083562901	Adkins Farm 8-inch	Adkins Farm	278	-	-	-	--	I	-	-	S
02	320227083564501	David Adkins	David Adkins	280	63	44	PCPA	--	I	-	-	S
03	320235083473601	J. M. Diffee	J. M. Diffee	326	100	-	PCPA	--	-	-	B E	-
04	320304083515701	Adkins Farm 4-inch	Adkins Farm	321	-	-	-	--	I	-	-	S
05	320345083400401	H. Walton	H. Walton	435	173	-	TERT	--	-	-	B E	-
06	320801083583801	E. Kitchens	E. Kitchens	308	70	-	PCPA	--	-	-	B E	-
07	320858083560501	R. S. Lytle	R. S. Lytle	485	39	-	PCPA	--	-	-	B E	-
08	321212083490401	D. Guill	D. Guill	403	130	-	PCPA	--	-	-	B E	-
09	321245083564901	Merica Oil Co.	Merica Oil Co.	400	2,316	-	-	--	C	E D	-	-
10	321502083442001	Unadilla #3	Unadilla, Ga.	400	599	315	TERT	10-07-77	P	D	-	-

Table 1.--Records of selected wells in the Dougherty Plain and adjacent areas--Continued

Well number	Site identification number	Name of well	Owner	Land surface altitude (ft above NGVD)	Well		Principal aquifer	Well construction	Use of water	Logs available	Water quality	Water level
					Depth (ft below land)	Casing						
Dooly County (093)--Continued												
11	321559083440401	Unadilla #1	Unadilla, Ga.	380	190	162	TERT	1960	P	-	-	-
12	321614083435801	Unadilla #2	Unadilla, Ga.	380	190	150	TERT	1960	P	-	B E	C
13	321645083403601	D. J. Folds	D. J. Folds	361	180	-	TERT	--	-	-	B E	-
Dougherty County (095)												
01	312650084092401	Blue Springs #6	Blue Springs Plantation	185	200	90	-	--	I	-	-	S
02	312651084102001	Blue Springs #2	Blue Springs Plantation	185	200	85	-	--	I	-	-	S
03	312654084210101	St. Joe Paper Co.	St. Joe Paper Company	183	1,200	1,100	CRCS	01-01-42	U	C E J N U	-	-
04	312654084210102	USGS TW #11	USGS/GGS	178	320	320	TLLT	02-15-78	U	- -	B C	C
05	312654084210103	USGS TW #12	USGS/GGS	180	690	214	CLTN	1979	U	C J G E	-	C
06	312658084071901	Frank Weatherbee #1	Frank Weatherbee	185	200	-	PCPA	--	I	-	-	C
07	312705084211701	Reynolds Lumber Co. #2	Reynolds Lumber Co.	180	5,255	-	CRCS	--	U	G E	-	-
08	312714084114101	Blue Springs #1	Blue Springs Plantation	198	200	-	-	--	I	-	-	S
09	312731084034101	Frank Weatherbee #2	Frank Weatherbee	230	220	120	-	--	I	-	-	S
10	312741084010801	D. Barlow	D. Barlow	257	442	442	TLLT	--	-	-	B E	I
11	312745084114801	Blue Springs #5	Blue Springs Plantation	190	-	-	-	--	I	-	-	S
12	312745084174201	Nilo Lake	Nilo Plantation	180	250	114	PCPA	--	I	-	-	S
13	312755084070301	Putney #1	Putney, Ga.	-	173	-	PCPA	--	-	-	-	-
14	312905084153901	Nilo TW South	Nilo Plantation	203	150	60	PCPA	12-22-78	U	G	M	C
15	312919084153801	Nilo TW North	Nilo Plantation	201	150	63	PCPA	12-21-78	U	G	-	C
16	312921084153701	Nilo Howell	Nilo Plantation	197	150	-	PCPA	--	I	-	-	S
17	312956084075301	Merck and Co. #2	Merck and Co., Inc.	185	247	79	PCPA	12-05-71	N	D	-	-
18	312958084074601	Merck and Co. #1	Merck and Co., Inc.	184	247	80	PCPA	--	-	-	B E	-
19	313009084184601	St. Joe Paper Co. 3-in.	St. Joe Paper Company	180	795	785	-	--	I	-	-	-
20	313009084185001	St. Joe Paper Co. 6-in.	St. Joe Paper Company	183	-	-	-	--	I	-	-	-
21	313041084020801	Fleming Farm #14	Ag-Timber Development Corp.	220	300	110	PCPA	--	I	C J G E	-	S
22	313043084024301	Fleming Farm #12	Ag-Timber Development Corp.	237	310	75	PCPA	--	I	C J G E	-	S
23	313050084031301	Fleming Farm #8	Ag-Timber Development Corp.	243	310	70	PCPA	--	I	C J G E	-	S
24	313105084064201	USGS TW #1	USGS	190	1,474	1,474	CRCS	04-01-77	U	G	-	-
25	313105084064202	USGS TW #7	USGS	195	882	716	CLTN	03-14-78	U	-	-	-
26	313105084064302	USGS TW #3	USGS	190	218	54	PCPA	06-16-77	U	C J V Z	B C	C
27	313105084064301	USGS TW #2	USGS	190	418	418	TLLT	04-12-77	U	-	B C	C
28	313108084020801	Fleming TW #10B	Ag-Timber Development Corp.	234	273	250	PCPA	--	U	J G	-	-
29	313111084032101	Fleming Farm #7	do.	215	290	90	PCPA	--	I	C J G E	-	S
30	313112084020401	Fleming TW #10A	do.	233	275	213	PCPA	--	U	C J G E	-	-
31	313112084020801	Fleming Valley	do.	231	271	147	PCPA	--	I	C J G E	-	-
32	313115084024301	Fleming Farm #11	do.	218	280	105	PCPA	--	I	C J G E	-	S
33	313121084222601	H. Goodyear	H. Goodyear, Jr.	210	145	40	PCPA	--	I	-	-	S
34	313126084035201	Fleming Farm #3	Ag-Timber Development Corp.	212	275	118	PCPA	--	I	C J G E	-	S
35	313138084024101	Fleming Farm #10	do.	210	290	70	PCPA	--	I	C J G E	-	S
36	313149084032101	Fleming Farm #6	do.	227	295	148	PCPA	--	I	C J G E	-	S
37	313209084025201	Fleming Farm #9	do.	220	285	93	PCPA	--	I	C J G E	-	S
38	313215084034401	Fleming Farm #2B	do.	219	300	70	PCPA	--	I	C J G E	-	S
39	313220084035901	Fleming Farm #1	do.	223	300	60	PCPA	--	I	C J G E	-	S
40	313220084040601	Fleming Clayton TW #1	do.	217	965	310	CLTN	--	U	C J G E	-	-
41	313222084032401	Fleming Farm #5	do.	215	260	70	PCPA	--	I	C J G E	-	S
42	313223084040601	Fleming Ocala TW #11	do.	219	300	60	PCPA	--	U	C J G E	-	S
43	313246084105601	Herty Nursery #4	State of Georgia	186	165	69	PCPA	--	C	-	B E	S
44	313305084032601	USMC #1	U.S. Marine Corps	240	1,025	-	CLTN	01-01-51	-	G	-	-
45	313311084062901	Proctor & Gambell #1	Proctor & Gambell Co.	185	215	106	PCPA	08-30-71	N	D	-	-
46	313311084063001	Proctor & Gambell #2	Proctor & Gambell Co.	190	210	99	PCPA	03-05-72	N	D	-	-
47	313343084031201	Firestone #1	Firestone Co.	220	265	195	PCPA	03- -68	N	-	-	-
48	313343084031202	Firestone #2	Firestone Co.	200	284	150	PCPA	05-10-68	C	D	-	-
49	313408084151201	Reynold's Lumber Co.	Reynolds Brothers	200	4,935	-	CRCS	01-01-42	U	D	-	-
50	313457084102601	Albany City Well #11	Albany, Ga.	-	915	915	TERT	--	P	G	-	-
51	313520084050501	USNAS	U.S. Naval Air Station	203	170	-	PCPA	--	-	G	B E	-
52	313530084203201	Tallahassee Plantation	Ga. Dept. of Natural Rsrs.	210	656	542	CLTN	01-01-73	U	-	-	C
53	313530084203202	USGS TW #4	USGS	220	251	251	TLLT	06-24-77	U	E J U N T	B E C	C
54	313530084203203	Ga. DNR Talla-Ocala	State of Georgia	216	-	-	-	05-05-77	U	-	-	-
55	313532084203501	Ocala Game and Fish	State of Georgia	220	-	-	-	--	I	-	-	-
56	313534084103001	USGS TW #5	USGS	195	257	88	TLLT	08-10-77	U	-	B E	C
57	313534084103002	USGS TW #6	USGS	195	690	619	CLTN	12-20-77	U	-	-	C
58	313534084103003	USGS TW #10	USGS	195	1,346	797	CRCS	11-21-78	U	E U J C N	-	-
59	313545084044001	USGS #2 at Miller	USGS	206	105	60	PCPA	04-06-79	U	-	-	C
60	313554084062501	Turner City #2	Turner, Ga.	213	760	713	CLTN	01-01-51	U	J U N	-	-
61	313615084201501	Ga. Game and Fish #1	State of Georgia	205	675	41	CLTN	1973	U	E	-	-
62	313622084153601	Doublegate Utility #1	Doublegate Utility Co.	208	125	70	PCPA	02-23-76	C	-	-	-
63	313622084153602	Doublegate Utility #2	Doublegate Utility Co.	208	172	110	PCPA	--	C	-	-	-
64	313625084041501	Firewell-Sac Apron	Miller Brewing Co.	222	350	350	TLLT	04-09-79	U	C D V	-	C
65	313640084002101	George Kirksey	George Kirksey	255	-	-	-	--	I	-	-	S
66	313641084262801	Featherfield Farm #1	Featherfield Farm	225	122	58	PCPA	11-07-59	I	-	-	S
67	313641084262801	Featherfield Farm #2	Featherfield Farm	235	560	-	TERT	--	I	G	-	-
68	313748084002901	Albany-Dougherty Co.	City of Albany	225	243	206	PCPA	01-01-49	U	C E F J T	B C E	C
69	313105084070401	School Bus Road RW	USGS/GGS	195	29	19	RSDM	10-08-80	U	G J	M	W
70	313532084203502	Ocala Game & Fish RW	USGS/GGS	215	15	6	RSDM	10-07-80	U	G J	M	W
71	312905084153101	Nilo Plantation RW	USGS/GGS	202	40	30	RSDM	10-07-80	U	G J	M	W
72	313323084002101	U.S. Marine Corps RW	USGS/GGS	227	45	35	RSDM	10-08-80	U	G J	M	W

Table 1.--Records of selected wells in the Dougherty Plain and adjacent areas--Continued

Well number	Site identification number	Name of well	Owner	Land surface altitude (ft above NGVD)	Well: Depth (ft below land)	Well: Casing	Principal aquifer	Well construction	Use of water	Logs available	Water quality	Water level
Early County (099)												
01	310614084565301	J. A. Pearce Est. #1	J. A. Pearce	190	200	135	PCPA	--	I	-	-	S
02	310647085014501	Edith Harvey #1	Edith Harvey	110	3,250	-	CRCS	--	U	E	-	-
03	310741084572501	F and F Farms	F and F Farms	175	165	60	PCPA	--	I	-	-	S
04	310814084561001	C. Frith-East of Mann	Charlie Frith	189	165	60	PCPA	--	I	-	-	S
05	310912084563101	Renfroe Carter-Home	Renfro Carter	200	140	65	PCPA	--	I	-	-	S
06	310937084580801	Renfroe Carter-Love	Renfro Carter	170	120	90	PCPA	--	I	-	-	S
07	310950085054501	Great So. Paper Co.	Great Southern Paper Co.	117	380	270	TERT	--	C	-	-	I
08	310954085054901	Great No. Paper Co. #1	Great Northern Paper Co.	90	799	350	TERT	07-12-61	N	D E	B E	-
09	310956085003301	Shingler and Reed	Shingler and Reed	210	460	280	TLLT	--	C	-	-	I
10	311015085042501	Great No. Paper Co. #2	Great Northern Paper Co.	150	1,008	455	CLTN	1975	N	T J E C U N D	-	-
11	311055084554701	James Revells	James Revells	207	285	95	TERT	--	I	-	-	S
12	311108084564301	P. Buckhalter	P. Buckhalter	202	160	70	PCPA	--	I	-	-	S
13	311128084583001	J. O. Evans #1	J. O. Evans	192	205	92	PCPA	--	I	-	-	S
14	311128085000101	G. Pyle-McGahee	G. Pyle	209	326	110	TERT	--	I	-	-	S
15	311129084575401	V. Evans #1	Vincent Evans	182	120	79	PCPA	--	I	-	-	S
16	311131085011101	G. Pyle-Kelly	G. Pyle	181	120	56	PCPA	--	I	-	-	S
17	311209085003301	G. Pyle-Odum	G. Pyle	198	142	80	PCPA	--	I	-	-	S
18	311235084574701	Vincent Evans #2	Vincent Evans	200	120	80	PCPA	--	I	-	-	S
19	311535085061901	USACE Supply Well	U.S. Corps of Engineers	173	274	20	TERT	--	H	E	B E	-
20	311540085011701	T. E. Davis-Hodges	Thomas E. Davis	185	245	150	TERT	--	I	-	-	S
21	311551084524601	Milton Johnson-Hunt	Milton Johnson	215	-	-	-	--	I	-	-	S
22	311559084454301	Mitchell Farm #88	Ag-Timber Development Corp.	163	150	56	PCPA	--	I	C J G E	B E	-
23	311559084450901	Mitchell Farm #4	do.	180	190	48	PCPA	--	I	C J G E	B E	-
24	311600084452801	Mitchell Ocala TW #1	do.	169	83	52	PCPA	--	U	C J E	-	-
25	311617084455701	Mitchell Farm #5	do.	151	98	43	PCPA	--	I	C J G E	-	-
26	311623084450901	Mitchell Farm #3	do.	177	155	50	PCPA	--	I	C J G E	-	-
27	311623084454001	Mitchell Farm #7	do.	159	105	60	PCPA	--	I	C J G E	-	-
28	311648084435301	Mitchell Farm #2	do.	190	160	70	PCPA	--	I	C J G E	-	-
29	311701084445001	Mitchell Farm #1	do.	170	90	50	PCPA	--	I	C J G E	-	-
30	311704084474101	H. and H. Haddock #1	Henry and Hal Haddock	180	135	95	PCPA	--	I	-	-	S
31	311704084574201	T. E. Davis-Still	Thomas E. Davis	240	145	85	PCPA	--	I	-	-	-
32	311711084443301	Mitchell Farm #9	Ag-Timber Development Corp.	170	183	45	TERT	--	I	C J T E	-	S
33	311717084425701	Kestler Elem. School	Early County, Ga.	229	131	85	TERT	--	-	-	B	-
34	311730084444001	Mitchell Farm #6	Ag-Timber Development Corp.	170	125	73	PCPA	--	I	C J G E	-	-
35	311750084514501	Farmers Gin & Whs. Co.	Farmers Gin & Warehouse Co.	178	768	-	TERT	06-01-55	N	E	-	-
36	311929084464301	T. C. Hunt #1	T. C. Hunt	187	175	60	TERT	--	I	-	-	S
37	312111084402101	Billy Newberry 10-in.	Billy Newberry	230	100	37	PCPA	--	I	-	-	S
38	312231084430801	Sasser Farm #1	Sasser Farms	232	260	83	TERT	--	I	-	-	S
39	312232084391701	Ike Newberry TW #1	Ike Newberry	123	125	61	PCPA	04-14-79	U	G	M	C
40	312257084381701	Ike Newberry	Ike Newberry	219	155	92	PCPA	--	I	-	-	-
41	312327084413601	Sasser Farm #6	Sasser Farms	236	244	72	TERT	--	I	-	-	S
42	312649084482801	Singletary Farm-Fair	Singletary Farms	242	675	510	TERT	--	I	-	-	S
43	312809084554001	Kolomoki State Park #1	Kolomoki State Park	272	574	-	TERT	1940	P	-	-	-
44	312813084561001	Kolomoki State Park #2	Kolomoki State Park	-	145	30	TLLT	--	P	-	-	I
45	312232084391702	Ike Newberry RW	USGS/GGS	230	30	20	RSDM	10-15-80	U	G J	M	M
46	311132084575401	Vincent Evans RW	USGS/GGS	178	40	30	RSDM	11-10-80	U	G J	M	M
Grady County (131)												
01	310113084214301	Donald Williams	Donald Williams	150	-	-	-	--	I	-	-	S
02	310158084181101	Cleve Harrell	Cleve Harrell	183	270	170	PCPA	--	I	-	-	S
03	310431084202501	Bobby Dorsey	Bobby Dorsey	138	-	-	-	--	I	-	-	S
Lee County (177)												
01	313727084082101	Chehaw State Park #1	Chehaw State Park	220	800	-	TERT	01-01-37	N	-	-	-
02	313812084125001	USGS TW #9	USGS	230	650	567	CLTN	09-26-78	U	C D E J Q U T	-	-
03	313813084125001	USGS TW #8	USGS	230	385	385	TLLT	06-27-78	U	-	B E C	C
04	313813084125002	Ocala at Ga. Power	State of Georgia	234	-	-	-	--	I	-	-	-
05	313814084114101	C. B. Mosley	C. B. Mosley	210	-	-	-	--	I	-	-	S
06	313819084171801	Holley Plantation	Holley Plantation	264	-	-	-	--	I	-	-	S
07	313931084115101	Fowltown Plantation #2	Fowltown Plantation	230	158	120	TLLT	--	I	-	-	I
08	313944084085801	Tolee Pln-Stage Farm	Tolee Plantation	247	185	50	PCPA	--	I	-	-	S
09	314010084172501	W. H. Fryer	W. H. Fryer	-	213	143	TLLT	1957	-	-	-	I
10	314132084043801	B. F. Hodges	B. F. Hodges	261	-	-	-	--	I	-	-	S
11	314144084103601	J. Wingfield	James Wingfield	235	700	-	TERT	--	I	-	-	S
12	314150084131601	Haley Bros. Farm	Haley Brothers Farm	300	300	-	TLLT	--	-	-	-	I
13	314158084081201	Muckalee Plantation	Muckalee Plantation	242	135	85	PCPA	--	I	-	-	S
14	314211084103001	Holland Water Supply	Holland Water Supply	240	145	85	PCPA	03-02-73	C	-	-	-
15	314236084091401	Mike Moorman TW #1	Mike Moorman	240	190	64	TERT	--	U	G	M	C
16	314253084060101	Piedmont Plant Farm	Piedmont Plant Farm	247	-	-	-	--	I	-	-	S
17	314338084164201	Peterson TW #1	--	272	530	40	CLTN	--	-	E N J	-	-
18	314344084101501	Leesburg #1	Leesburg, Ga.	249	402	135	TLLT	--	P	-	-	I
19	314353084100201	Leesburg #3	Leesburg, Ga.	249	320	320	TLLT	1938	-	-	-	-
20	314423084025401	Senah Plantation	Senah Plantation	273	160	-	TERT	--	I	-	-	S
21	314645084132901	Charles Bodrey SW	Charles Bodrey	283	190	90	-	--	I	-	-	S

Table 1.--Records of selected wells in the Dougherty Plain and adjacent areas--Continued

Well number	Site identification number	Name of well	Owner	Land surface altitude (ft above NGVD)	Well: Depth (ft below land)	Well: Casing (ft below land)	Principal aquifer	Well construction	Use of water	Logs available	Water quality	Water level
Lee County (177)--Continued												
22	314651084080401	J. M. Rhodes	J. M. Rhodes	233	-	-	-	--	I	-	-	S
23	314657084164501	Hall #1	D. C. Hall	291	120	60	TERT	03- -52	I	-	-	-
24	314714084120701	DeKalb AG Research	DeKalb AG Research, Inc.	280	175	-	TERT	--	I	-	-	-
25	314809084071901	L. E. Williams	L. E. Williams	290	-	-	-	--	I	-	-	S
26	315003084032201	Billy King #2	Billy King	303	300	34	TERT	--	I	-	-	S
27	315005084025001	Billy King #1	Billy King	305	134	23	PCPA	--	I	-	-	S
28	315155084145201	Dixie Pines Co.	Dixie Pines Company	305	690	-	TERT	03-01-55	N	-	-	-
29	315202084033501	Jack Miller #3	Jack Miller	310	110	-	PCPA	--	I	-	-	S
30	315209084042501	Jack Miller #1	Jack Miller	313	160	40	PCPA/TLLT	--	I	-	-	S
31	315210084042601	Jack Miller #2	Jack Miller	313	160	40	PCPA/TLLT	--	I	-	-	S
32	315228084100601	Geise Usry	Geise Usry	289	200	87	TLLT	--	I	-	-	S
33	315242084160601	R. C. McCree	R. C. McCree	300	319	-	TERT	--	I	-	-	-
34	315302084101301	H. Usry-Wardell Place	Hiram Usry	300	175	105	PCPA/TLLT	--	I	-	-	-
35	315329084033801	Wesley Kaylor #3	Wesley Kaylor	288	140	-	PCPA	--	I	-	-	S
36	315404084153001	Smithville #2	Smithville, Ga.	320	195	105	TLLT	--	P	-	-	S
37	315414084081401	Larry Tucker	Larry Tucker	317	120	105	TERT	--	I	-	-	S
38	315415084150701	Smithville #1	Smithville, Ga.	-	195	105	TLLT	--	I	-	B E	S
39	315417084100001	H. Usry-Fish Pond	Hiram Usry	300	185	119	TLLT	--	-	-	-	S
40	314253084060101	Piedmont Plant Farm WR	USGS/GGS	245	40	30	RSDM	10-09-80	U	G J	M	W
41	313753084053501	Steve Stocks RW	USGS/GGS	238	40	30	RSDM	10-29-80	U	G J	M	W
42	315005084025501	Bill King RW	USGS/GGS	306	19	9	RSDM	10-13-80	U	G J	M	W
43	315301084101401	Hiram Usry Farm RW	USGS/GGS	300	28	18	RSDM	10-13-80	U	G J	M	W
Miller County (201)												
01	310410084450601	Hornsby	Brad Hornsby	151	200	120	PCPA	--	I	-	-	S
02	310512084353201	Merritt #8	Merritt Farm	150	150	60	PCPA	--	I	-	-	S
03	310545084435701	R. Williams	Richard Williams	140	165	100	PCPA	--	I	-	-	S
04	310547084341801	Atkinson	Irwin Atkinson	150	200	85	PCPA	--	I	-	-	S
05	310654084403301	Jack Fleet #1	Jack Fleet	150	225	130	PCPA	09-14-72	U	-	B G E	C
06	310705084371501	Merritt	Merritt Farm	158	220	59	PCPA	--	I	-	-	S
07	310721084495401	Tabb	Stokes Tabb	174	120	80	PCPA	--	I	-	-	S
08	310738084471701	Grimsley	Billy Grimsley	140	120	75	PCPA	--	I	-	-	S
09	310743084514601	Felix Davis #1	Felix Davis	180	185	85	PCPA	--	I	-	-	S
10	310747084451201	Homer Spooner	Homer Spooner	145	-	-	-	--	I	-	-	S
11	310816084501801	Newberry	--	175	-	-	-	--	I	-	-	S
12	310823084545901	Moulton	Jimmy Moulton	200	180	135	PCPA	--	I	-	-	S
13	310902084475401	Newberry	--	169	130	65	PCPA	--	I	-	-	S
14	310926084445401	Ralph Weaver	Ralph Weaver	156	-	-	-	--	I	-	-	S
15	311009084495502	USGS TW DP #3	USGS/GGS	180	75	64	PCPA	01-14-60	U	G	M	C
16	311009084495503	USGS TW DP	USGS/GGS	180	40	30	RSDM	01-09-80	U	G	M	C
17	311016084433001	Colquitt #2	Colquitt, Ga.	155	234	-	PCPA	--	-	-	B C E	-
18	311051084342901	Larry Cook	Larry Cook	160	145	53	PCPA	--	I	-	-	S
19	311052084550601	J. I. Widner	J. I. Widner	200	135	-	PCPA	--	-	-	B E	-
20	311113084547 01	Jones Long	Jones Long	174	225	175	PCPA	--	I	-	-	S
21	311154084523001	Felix Davis #2	Felix Davis	198	165	95	PCPA	--	I	-	-	S
22	311236084354301	Buddy Bush	Buddy Bush	175	195	88	PCPA	--	I	-	-	S
23	311236084400401	Bennie Bryan	Bennie Bryan	172	110	60	PCPA	--	I	-	-	S
24	311241084442501	Tabb	Owen Tabb	148	165	75	PCPA	--	I	-	-	S
25	311300084370901	Larry Cook	Larry Cook	188	145	63	PCPA	--	I	-	-	S
26	311302084522901	Newberry	--	120	100	70	PCPA	--	I	-	-	S
27	311344084350701	C. O. Walker	C. O. Walker	166	80	-	PCPA	--	-	-	B E	-
28	311410084364601	Sheffield	E. J. Sheffield	190	190	132	PCPA	--	I	-	-	S
29	311410084442201	Tabb	Owen Tabb	175	165	80	PCPA	--	I	-	-	S
30	311411084403401	Sheffield	E. J. Sheffield	192	165	80	PCPA	--	I	-	-	S
31	311415084471801	C. E. Crozier	C. E. Crozier	203	390		PCPA	--	-	-	B E	-
32	311416084335701	Jo-Su-Li Farm #15	Jo-Su-Li Farm	166	210	130	PCPA	--	I	-	-	S
33	310652084404702	Jack Fleet RW	USGS/GGS	-	40	26	RSDM	11-18-80	U	G J	M	W
34	311009084495501	USGS TW DP-1	USGS/GGS	180	205	180	PCPA/TLLT	01-10-80	U	C G J	-	-
Mitchell County (205)												
01	310507084262201	Harvey Meinders #1	Harvey Meinders	145	206	87	PCPA	1954	U	J E	B C E	C
02	310742084213401	Crosson #1	Crosson Farms	145	180	147	PCPA	--	I	-	-	S
03	310805084254301	Donald Shirah	Donald Shirah	157	-	-	-	--	I	-	-	S
04	310807084211801	Crosson #2	Crosson Farms	147	185	60	PCPA	--	I	-	-	S
05	310928084195201	G. W. Hendley	G. W. Hendley	149	110	-	PCPA	--	-	-	B C E	-
06	311009084264301	Cox Shooting Range	Cox Shooting Range	155	-	-	-	--	I	-	-	S
07	311109084145801	T. Hillard	T. Hillard	154	-	-	-	--	I	-	-	-
08	311115084223001	Dean's Pecans	Gerald C. Dean	160	-	-	-	--	I	-	-	S
09	311137084094501	L. Bateman	L. Bateman	216	287	-	PCPA	--	-	-	B E	-
10	311301084225101	Bostick #2	N. Bostick	140	180	100	PCPA	--	I	-	-	S
11	311323084115401	Camilla #4	Camilla, Ga.	175	350	250	PCPA	08- -76	P	D E	-	S
12	311328084130701	Camilla #3	Camilla, Ga.	165	341	155	PCPA	12- -57	P	D	B C E	-
13	311336084192301	McNair #3	--	165	-	-	-	--	I	D	-	S
14	311404084122101	Camilla #1	Camilla, Ga.	176	325	-	PCPA	1949	-	-	B E	-

Table 1.--Records of selected wells in the Dougherty Plain and adjacent areas--Continued

Well number	Site identification number	Name of well	Owner	Land surface altitude (ft above NGVD)	Well: Depth (ft below land)	Well: Casing	Principal aquifer	Well construction	Use of water	Logs available	Water quality	Water level
Mitchell County (205)--Continued												
15	311405084122101	Camilla #2	Camilla, Ga.	176	300	-	-	---	-	-	B E	-
16	311539084173101	Clayton Holton TW #1	Clayton Holton	150	190	50	PCPA	03-09-79	U	G	B	C
17	311550084174701	Clayton Holton #2	Clayton Holton	160	-	-	-	---	I	G	-	S
18	311828084165401	Bullard #1	Webb Bullard	170	215	165	PCPA	---	I	-	-	S
19	311908084111501	Robert Cochran	Robert Cochran	175	-	-	-	---	I	-	-	S
20	311935084033701	B. Hatcher	Billy Hatcher	330	210	105	PCPA	1967	I	-	-	S
21	311946084095501	E. J. Vann #1	E. J. Vann, Jr.	198	460	-	PCPA	---	-	-	B E	-
22	312127084065801	Henry Wright #1	Henry Wright	194	208	77	PCPA	---	U	-	-	C
23	312200084110401	Frank Weatherbee	Frank Weatherbee	160	-	-	-	---	I	-	-	S
24	312240084095201	Baconton #1	Baconton, Ga.	180	973	-	TERT	---	P	-	-	-
25	312253084100001	Baconton #2	Baconton, Ga.	170	270	210	PCPA	1963	P	-	-	S
26	312332084071001	Branch Grove #5	Ag-Timber Development Corp.	191	295	145	PCPA	02- -78	I	C J E	-	-
27	312332084071301	Branch Grove TW #5	do.	192	340	95	PCPA	02- -78	U	C J E	-	-
28	312524084070001	Branch Grove #4	do.	191	285	92	PCPA	02- -78	I	C J E	-	-
29	312527084072101	Branch Grove #3	do.	188	270	110	PCPA	02- -78	I	C J E	-	-
30	312529084081801	Branch Grove #2	do.	178	250	110	PCPA	02- -78	I	C J E	-	-
31	312544084075101	Branch Grove TW #1	do.	180	280	63	PCPA	02- -78	U	C J E	-	-
32	312546084074701	Branch Grove #1	do.	180	275	119	PCPA	02- -78	I	C J E	-	-
33	312557084013001	Gravel Hill Plantation	Gravel Hill Plantation	272	382	116	PCPA	1963	-	E J	-	-
34	311051084262101	Harvey Meinders RW	USGS/GGS	-	40	30	RSDM	11-19-80	U	G J	M	W
35	311539084173102	Clayton Holton RW	USGS/GGS	160	50	40	RSDM	10-16-80	U	G J	M	W
36	3108310842155	Howard Davis RW	USGS/GGS	147	35	25	RSDM	10-17-80	U	G J	M	W
37	311802084192301	DP #10 Tallahatta	USGS/GGS	165	417	397	TLLT	06- -80	U	C G J	M	C
38	311802084192302	DP #11 Ocala	USGS/GGS	165	225	62	PCPA	05-21-80	U	C G J	M	C
39	311802084192303	DP #12 RW	USGS/GGS	165	37	21	RSDM	07-16-80	U	C G J	M	C
Seminole County (253)												
01	304905084532701	Roddenberry #5	Roddenberry, Inc.	127	180	100	PCPA	---	I	-	B C E	S
02	304938084523801	Roddenberry #8	do.	95	190	124	PCPA	---	I	-	-	S
03	305017084541101	Roddenberry #9	do.	126	260	170	PCPA	---	I	-	-	S
04	305047084521301	Roddenberry #6	do.	91	170	120	PCPA	---	I	-	-	S
05	305055084471301	W. O. Green	W. O. Green	119	110	-	PCPA	---	-	-	B E	-
06	305251084480501	R. G. Heard	R. G. Heard	120	130	90	PCPA	---	I	-	-	S
07	305331084525201	Joe Poole	Joe Poole	120	-	-	-	---	I	-	-	S
08	305356084534601	Roddenberry TW #1	Roddenberry, Inc.	115	150	63	PCPA	02-21-78	U	G	-	C
09	305517084551501	Fiveash	Bob Fiveash	155	200	80	PCPA	---	I	-	-	S
10	305614084531701	Crooms	Carlton Crooms	145	185	100	PCPA	---	I	-	-	S
11	305616084495801	Joe Hall	Joe Hall	118	160	60	PCPA	---	I	-	-	S
12	305648084555901	T. N. Smith #1	J. P. Spooner	140	225	118	PCPA	01-01-72	U	-	-	-
13	305816084454201	Eddie Miller #1	Eddie Miller	128	200	60	PCPA	---	I	-	-	C
14	310000084552501	Seldom Rest	Steve Williams	154	230	60	PCPA	---	I	-	-	S
15	310009084494701	John Dozier	John Dozier	156	260	60	PCPA	---	I	-	-	S
16	310029084591801	Roberts	Dave Roberts	135	195	90	PCPA	---	I	-	-	S
17	310145084483901	Eddie Miller #2	Eddie Miller	154	200	125	PCPA	---	I	-	-	S
18	310147084554701	Billy Lewis	Billy Lewis	150	140	40	PCPA	---	I	-	-	S
19	310206084522901	Donalsonville #3	Donalsonville, Ga.	150	174	73	PCPA	02- -64	P	D	-	S
20	310230084524901	C. O. Thomas	C. O. Thomas	155	123	-	PCPA	---	-	-	B E	-
21	310233084530101	Donalsonville #2	Donalsonville, Ga.	140	210	-	-	1949	-	-	-	-
22	310237084530101	Donalsonville #1	Donalsonville, Ga.	140	200	-	-	---	-	-	B C E	-
23	310250084472601	Eddie Miller #3	Eddie Miller	130	200	125	PCPA	---	I	-	-	S
24	310310084484001	W. E. Harlow	W. E. Harlow	130	3,572	-	CRCS	---	U	-	-	-
25	310330084582801	Bob Dutton	Bob Dutton	133	140	87	PCPA	---	I	-	-	S
26	310427084591101	Doug Harvey TW #1	Doug Harvey	152	125	58	PCPA	03-08-79	U	G	B	C
27	305412084535801	Roddenberry Farm RW	USGS/GGS	115	33	23	RSDM	11-12-80	U	G J	M	M
28	310428084591201	Doug Harvey	USGS/GGS	151	39	30	RSDM	11-11-80	U	G J	M	M
Sumter County (261)												
01	315507084151701	M. Shackelford	M. Shackelford	-	-	-	-	---	-	-	-	-
02	315513084075001	D. L. Owens	D. L. Owens	343	150	50	TERT	---	I	-	-	-
03	315530083575501	Trim Porter #1	Trim Porter	270	130	-	PCPA	03- -52	-	-	-	-
04	315609084003201	Deseret Farm	Deseret Farm	-	-	-	TLLT	---	-	-	-	I
05	315628084105801	A. A. Ellis #1	A. A. Ellis	322	100	93	PCPA	05- -52	I	-	-	-
06	315713084050601	Leslie #1	Leslie, Ga.	345	234	-	TERT	---	-	-	B	-
07	315836084124601	L. G. Childres	L. G. Childres	330	355	300	TERT	12- -52	I	-	-	-
08	315848083592501	C. E. Pelcher	C. E. Pelcher	241	140	-	-	---	-	-	-	-
09	315955083572501	W. B. Perry	W. B. Perry	245	100	60	PCPA	04- -52	I	-	-	-
10	320215084090501	D. A. Carrison #1	D. A. Carrison	417	312	-	TERT	11- -51	I	-	-	-
11	320215084102001	Deriso #2	Jack Deriso	400	80	-	PCPA	10- -52	-	-	-	-
12	320313084151201	Sweet Potato #1	Sweet Potato House	385	410	-	TERT	07-27-56	C	E	-	-
13	320321084121001	Americus #5	Americus, Ga.	409	1,005	198	CRCS	---	P	C E J U N T	-	-
14	320324084001701	USGS #6	USGS	320	450	-	TERT	08-01-46	U	-	-	-
15	320359083590301	Danville Ferry	State of Georgia	270	606	200	TERT	---	U	C E J	-	-
16	320410084112201	E. P. James	E. P. James	426	100	-	TLLT	08- -52	I	-	-	-
17	320500084142201	Americus #1	Americus, Ga.	468	305	128	TERT	10- -57	P	-	-	-

Table 1.--Records of selected wells in the Dougherty Plain and adjacent areas--Continued

Well number	Site identification number	Name of well	Owner	Land surface altitude (ft above NGVD)	Well		Principal aquifer	Well construction	Use of water	Logs available	Water quality	Water level
					Depth (ft below land)	Casing						
Sumter County (261)--Continued												
18	320540084100001	C. L. Rhyne	C. L. Rhyne	459	400	-	TERT	02- -58	I	E	-	-
19	320640084081501	Northeast School #1	Sumter County, Ga.	453	200	-	TERT	10- -58	C	-	-	-
20	320702084112801	Dayton Vnr.& Lmbr.Co.#1	A and S. Development	470	333	313	TERT	01-13-48	C	-	-	-
21	320711084114601	S. E. Fertilizer Co.	S. E. Fertilizer Company	461	134	106	TLLT	1978	-	-	-	I
22	315737083591601	Ed Stephens RW	USGS/GGS	290	27	17	RSDM	10-14-80	U	G J	M	W
Terrell County (273)												
01	313819084225201	M. L. Shiver #1	M. L. Shiver	260	176	65	TLLT	--	I	-	-	S
02	313838084210601	Jack Wilson	Jack Wilson	260	120	60	TLLT	--	I	-	-	S
03	313935084203601	Alvin Vann	Alvin Vann	260	95	63	PCPA	--	I	-	-	S
04	314132084255501	S. Reese	S. Reese	-	200	200	TLLT	--	-	-	-	I
05	314148084263201	F. Aultman	F. Aultman	303	155	103	TLLT	--	I	-	-	-
06	314118084190901	Daniel Bros. #2	Daniel Brothers	-	320	320	TLLT	--	-	-	-	I
07	314314084205701	Sasser #1	Sasser, Ga.	315	187	100	TLLT	--	M	-	-	-
08	314319084205301	Sasser #2	Sasser, Ga.	315	205	-	CLBR	--	-	-	B E	-
09	314522084243801	H. Spillman	H. Spillman	342	140	105	TLLT	--	I	-	-	S
10	314530084260701	USDA	U.S. Dept. of Agriculture	332	103	92	TLLT	--	I	-	-	S
11	314611084310301	Graves School #2	Terrell County, Ga.	351	333	-	CLBR	--	-	-	B E	-
12	314615084285401	Fish Hatchery #1	Cocke Fish Hatchery	385	369	597	TERT	06-19-56	C	-	-	-
13	314956084214101	Bronwood #2	Bronwood, Ga.	360	465	390	TERT	08-22-74	P	C	-	-
14	313934084203701	Alvin Vann RW	USGS/GGS	263	20	10	RSDM	10-14-80	U	G J	M	W
Worth County (321)												
01	313517083593601	3-J Farm	3-J Farm	257	211	60	PCPA	--	I	-	-	S
02	313839083545601	G. W. Strom	G. W. Strom	266	200	32	PCPA	--	I	-	B E	-
03	314330084005401	USGS TW DP #7	USGS/GGS	230	330	315	TLLT	02-26-80	U	G	B	C
04	314330084005402	USGS TW DP #8	USGS/GGS	230	120	63	PCPA	02-27-80	U	G	B	C
05	314330084005403	USGS TW DP #9	USGS/GGS	230	28	10	RSDM	02-28-80	U	G	M	C
06	314336083572801	Tyson #1	H. R. and Dr. E. J. Tyson	261	190	84	PCPA	--	I	-	-	S
07	314447083591301	L. L. Leverett	L. L. Leverett	253	240	-	PCPA/TLLT	--	-	-	B	-
08	314933083552001	Warwick #1	Warwick, Ga.	276	325	-	TLLT	--	-	-	B C E	-
09	314852083541901	Clarence Odom RW	USGS/GGS	275	34	24	RSDM	10-09-80	U	G J	M	W

Table 2.--Generalized stratigraphic column of the Tertiary System in the Dougherty Plain (Adapted from Hicks, 1980.)

Series	Group and formation	Thickness (feet)	Lithology	Water-bearing properties	Water-quality characteristics
Eocene	Residuum	0-100	Varied colored clay and fine to coarse, poorly sorted, angular to subangular quartz sand	Not generally water bearing	
	Ocala Limestone	0-325	White to light pink, fossiliferous limestone	Ocala aquifer is a very productive water-bearing unit throughout the Dougherty Plain. Reported well yields of more than 2,000 gal/min. Yields decrease north and west of Albany	Water is generally a hard calcium bicarbonate type that meets all State drinking water standards (1977)
	Lisbon Formation		Slightly glauconitic, fine calcareous sand, clay, and interbedded limestone	Limited water-bearing potential --used only in multiaquifer wells where other aquifers are tapped	Quality is assumed to be very similar to that in the Tallahatta
	Tallahatta Formation	170-380	Fine to medium sand, clayey sand, and interbedded limestone layers that are very fossiliferous at top of the formation	Tallahatta aquifer is a major aquifer in the Albany area; used for municipal, agricultural, and industrial supplies. Reported well yields of as much as 1,400 gal/min. When not differentiated, the Lisbon and Tallahatta aquifers may be referred to as the "Claiborne aquifer."	Water is a hard calcium bicarbonate type that meets all State drinking water standards (1977) and is suitable for most uses
	Hatchetigbee Formation		Very fine, green-stained quartz sand, locally calcareous and glauconitic	Aquifer is topped by many multiaquifer wells; however, water-bearing properties unknown	Assumed to have similar quality to the Tallahatta aquifer
Upper Paleocene	Tuscahoma Sand and Nanafalia Formation undifferentiated	75-130	Fine to medium, micaceous, clay-rich sand. Glauconite is abundant throughout. Lower part is nonfossiliferous, clay-rich sand (greater than 50 percent clay)	Used in some multiaquifer wells; water-bearing properties unknown	Quality unknown
Lower Paleocene	Clayton Formation (upper unit)	10-110	Fine to medium, calcareous quartz sand and interbedded thin limestones	Used in some multiaquifer wells; water-bearing properties unknown	
	Clayton Formation (limestone unit)	90-130	Massive, light gray, recrystallized limestone. Very fossiliferous at the top of the unit	Clayton aquifer is a major aquifer in the Albany area. East of Albany the aquifer is a poor producer; however, to the west and northwest, well yields as great as 2,000 gal/min have been reported	The Clayton aquifer produces water that is suitable for municipal, agricultural, and industrial supply. It is generally a soft sodium bicarbonate type that meets all State drinking water standards (1977)
	Clayton Formation (lower unit)	10-100	Fine to medium, arkosic sand, locally glauconitic and silty	Water-bearing properties unknown	

Table 3.—Well 007-38.

Interval (ft)	Sample description
0- 5	Sand, very fine-grained, silty, clayey.
5-10	Sand, fine-grained, well sorted, clean quartz.
10-15	Sand, fine to medium-grained, quartz.
15-20	Like the sample at 10-15 ft.

Summary

Interval	Description	Hydrogeologic unit
0-20	Fine to medium sand	Residuum

Table 4.--Well 007-39.

Interval (ft)	Sample description
0- 5	Sand, fine to medium-grained, subangular to subrounded, quartz, contains slight amount of light red-brown clay.
5-10	Like sample at 0-5 ft.
10-15	Clay, white to light-orange, slightly sandy, interbedded with thin layers of fine-grained sand.
15-20	Like the sample at 10-15 ft.
20-25	Like the sample at 10-15 ft.
25-28	Like the sample at 10-15 ft.
29	Limestone(?): No drilling fluid or sample return.

Summary

Interval	Description	Hydrogeologic unit
0-28	Slightly sandy clay	Residuum
28-29	Limestone	Principal artesian aquifer

Table 5.--Well 037-24.

Interval (ft)	Sample description
0- 7	Sand, fine to very fine-grained, rounded, fairly well-sorted quartz; some heavy minerals and some soft, red clay.
7- 12	Sand, medium-grained, rounded to subspherical, well-sorted quartz.
12- 17	Clayey, sandy limestone, very soft, cream, clayey, medium-grained, well-sorted sandy limestone.
17- 22	Sandy clay, soft, orange, plastic clay, contains fine to coarse-grained, angular to subangular, poorly-sorted quartz sand.
22- 37	Clay, soft, orange to white to gray, very plastic.
37- 42	Cavity:
42-142	Limestone(?): No drilling fluid or sample return.

Summary

Interval	Description	Hydrogeologic unit
0- 37	Clayey sand or sandy clay	Residuum
37-142	Limestone	Principal artesian aquifer

Table 6.--Well 087-09.

Interval (ft)	Sample description
0- 50	Sand and sandy clay, fine to coarse-grained, subrounded to subangular, in layers at 20 to 40 ft; interbedded with dense, white to red to yellow mottled, very sandy clay.
50- 85	Limestone, varies from soft, granular, white, and very fossiliferous, to dense, tan, and orange, recrystallized and fossiliferous.
85- 86	Sand, coarse to medium-grained, quartz.
86-110	Limestone, soft, granular, fossiliferous to dense, tan and orange, recrystallized and fossiliferous. A 3-ft cavern was penetrated at 92 ft, from which medium to coarse quartz grains and rock fragments were recovered.
110-113	Sand, fine to coarse-grained, quartz.
113-145	Limestone, white to tan to orange, fossiliferous (bryozoans, Foraminifera), recrystallized to varying degrees.

Summary

Interval	Description	Hydrogeologic unit
0- 50	Sandy clay	Residuum
50-145	Limestone with sand layers	Principal artesian aquifer

Table 7.--Well 087-10.

Interval (ft)	Sample description
0- 45	Sandy clay, a dense, white to red to yellow mottled clay matrix containing fine to medium-grained, subrounded, quartz sand (50 percent), with rock fragments becoming common; heavy minerals began to occur at 30 ft.
45- 60	Sand, fine-grained, gray, clean quartz.
60- 70	Limestone, varies from soft, granular, white, very fossiliferous, to dense, light-orange, recrystallized, fossiliferous.
70-185	Limestone and sand, variable, like the sample at 60-70 ft.; interbedded with layers of fine to coarse-grained quartz sand.

Summary

Interval	Description	Hydrogeologic unit
0- 60	Sandy clay or sand	Residuum
60-185	Limestone with sand layers	Principal artesian aquifer

Table 8.--Well 087-33.

Interval (ft)	Sample description
0- 5	Clayey sand, fine to medium-grained, quartz sand, red clay, rock fragments; overlain by sandy, dark-gray topsoil.
5- 15	Clay, silty, gray, plastic.
15- 40	Clayey sand-sandy clay, coarse-grained, subrounded, quartz sand, becoming gravel, with red clay lower in section; interbedded with silty to sandy, gray, red, and white mottled, plastic clay.
40- 85	Limestone, sand, and clay, fine to coarse-grained, quartz sand with rock fragments, silty, sandy, white to red to yellow mottled, clay; interbedded with thin layers of hard, white limestone.
85-135	Limestone, granular, white, porous, very fossiliferous; contains orange-brown clay balls.
135-145	Cavernous limestone, granular, white, porous, fossiliferous, containing small caverns filled with muddy water.
145-160	Limestone, brown, very hard, nonporous, dolomitic.

Summary

Interval	Description	Hydrogeologic unit
0- 40	Clay or clayey sand	Residuum
40-160	Limestone with minor amounts of sand	Principal artesian aquifer

Table 9.--Well 087-42.

Interval (ft)	Sample description
0- 10	Sand, very fine-grained to pebble-sized, angular, quartz with other minerals.
10- 20	Sand, very fine-grained to pebble-sized, angular, quartz; some orange clay.
20- 32	Sand, very fine-grained to pebble-sized quartz, very angular, poorly sorted, with rock fragments; interbedded with orange to cream, clayey sand. At 28 ft, sand becomes pebble-sized quartz rock. Fragments white to pink.
32- 40	Clay, silty, gray, plastic.
40- 59	Clay and sand, sandy, gray, plastic clay; interbedded with pebble-sized, subangular rock fragments and coarse-grained quartz.
59- 75	Limestone(?): No drilling fluid or sample return.
75- 90	Limestone, light orange.
90-105	Like sample at 75-90 ft.
105-120	Like sample at 75-90 ft.
120-135	Limestone, dense, recrystallized, fossiliferous.
135-147	Limestone, porous, pale orange to white, very fossiliferous.
147-150	Like sample at 135-147 ft., with chert fragments.
150-180	Limestone, very hard, light orange to dark orange, recrystallized, locally cherty; 1-ft cavern penetrated at 155 ft. Some fossils identifiable at depth.
180-195	Limestone, light orange to cream, very fossiliferous.
195-210	Like sample at 180-195 ft.
210-223	Limestone, like sample at 180-195 ft.; cavern at 223 ft.
223-226	Cavern penetrated.

Table 9.--Well 087-42.--Continued

Interval (ft)	Sample description
226-240	No sample. Lost circulation.
240-255	No sample. Lost circulation.
255-270	No sample. Lost circulation.
270-285	No sample. Lost circulation.
285-300	No sample. Lost circulation.
300-315	No sample. Lost circulation.
315-330	No sample. Lost circulation.
330-345	No sample. Lost circulation.
345-360	No sample. Lost circulation.
360-375	No sample. Lost circulation.
375-384	No sample. Lost circulation.
384-390	Siltstone, light gray, fossiliferous (shell fragments); probably underlain by gray-green clayey sand.
390-395	No sample. Lost circulation.
395-410	Sand, very fine-grained, gray, with fragments of limestone.
410-455	No sample. Lost circulation.

Summary

Interval	Description	Hydrogeologic unit
0- 59	Sand and clay	Residuum
59-320	Limestone	Principal artesian aquifer
320-410	Silty, cemented limestone	Lisbon confining unit
410-450	Sand	Tallahatta aquifer

Table 10.--Well 087-43.

Interval (ft)	Sample description
0-10	Clay, dense, gray and pink mottled, plastic, slightly sandy; interbedded with thin streaks of fine to coarse-grained quartz sand at 5 to 7 ft.
10-20	Clay, dense, gray and pink mottled, plastic, slightly sandy; interbedded with coarse to fine-grained quartz sand with minerals and rock fragments.
20-30	Clay and sand, orange and gray mottled, very sandy clay; interbedded with fine to coarse-grained quartz sand.
30-35	Sandy clay, orange and gray mottled, very sandy clay.
35-40	Sandy clay, orange, with fine to small pebble-size sand.
40-50	Sandy clay, orange; interbedded with very coarse-grained sand.
50-54	Like sample at 40-50 ft.
54-60	Limestone, light orange, fossiliferous.
60-70	No sample. Lost circulation.
70-75	No sample. Lost circulation.
75-90	No sample. Lost circulation.

Summary

Interval	Description	Hydrogeologic unit
0-54	Clay or sandy clay	Residuum
54-90	Limestone	Principal artesian aquifer

Table 11.--Well 087-44.

Interval (ft)	Sample description
0-10	Sand, fine to coarse-grained quartz and other minerals; interbedded with gray and red mottled sandy clay.
10-20	Clay, dense, pink, gray, and yellow mottled, slightly sandy.
20-32	Clay, dense, pink, gray, and yellow mottled; interbedded with thin layers of sand.
32-40	Sand, very fine to coarse-grained quartz, angular.

Summary

Interval	Description	Hydrogeologic unit
0-40	Clay and sand	Residuum

Table 12.--Well 087-45.

Interval (ft)	Sample description
0- 7	Sand, medium-grained quartz with some silt and clay.
7-10	Clay, soft, red-gray.
10-13	Sand, coarse-grained, loose quartz.
13-15	Like sample at 7-10 ft.
15-27	Sandy clay, dense, gummy, red-white.
27-30	Sandy clay, loose sandy, limonite-stained clay.
30-40	Sandy clay, sandy, red-brown clay with loose limonite pebbles.
40-41	Limestone, pink, with chert.

Summary

Interval	Description	Hydrogeologic unit
0-40	Clay and sandy clay	Residuum
40-41	Limestone	Principal artesian aquifer

Table 13.--Well 087-46.

Interval (ft)	Sample description
0- 4	Sand, fine-grained, angular to subangular, organic.
4-12	Sand, fine-grained, moderately sorted, slightly stained.
12-20	Clay, white to gray with brown and red streaks, slightly sandy.
20-25	Clay, brown-ochre, limonitic, slightly sandy.
25-33	Like sample at 20-25 ft.
33-34	Limestone(?): No drilling fluid or sample return.

Summary

Interval	Description	Hydrogeologic unit
0-33	Clay and sand	Residuum
33-34	Limestone	Principal artesian aquifer

Table 14.--Well 087-47.

Interval (ft)	Sample description
0- 5	Sand, fine to medium-grained, subangular, fairly well-sorted, quartz.
5-10	Sand, medium-grained, subangular, brown, moderately sorted, slightly stained, slightly argillaceous quartz.
10-15	Sand, medium-grained subangular, brown, moderately sorted, slightly stained, slightly argillaceous quartz; more clay than in sample at 5-10 ft.
15-20	Like sample at 5-10 ft.
20-25	Like sample at 5-10 ft.
25-30	Like sample at 5-10 ft.
30-35	Like sample at 5-10 ft. Interbedded with a thin layer of white to gray, fine-grained, sandy clay.
35-40	Like sample at 5-10 ft.; interbedded with clay.
40-45	Like sample at 5-10 ft.; with clay.
45-50	Clay, dark ochre to brown, slightly sandy.
50-53	Like sample at 45-50 ft.
53-55	Limestone, white to light gray, soft; contains cavities of angular quartz sand.

Summary

Interval	Description	Hydrogeologic unit
0-53	Sand and clay	Residuum
53-55	Limestone	Principal artesian aquifer

Table 15.--Well 095-14.

Interval (ft)	Sample description
0- 40	Sandy clay, white, red, and yellow mottled clay and fine to medium-grained quartz sand. Clay becomes all white at 25 ft. Sand comprises 20 to 30 percent of overall composition.
40- 80	Limestone, soft, white, very fossiliferous (predominantly Foraminifera, with bryozoans), and slightly recrystallized. A 2-ft cavern was penetrated at 75 ft, which contained clay and sand.
80- 90	No sample. Lost circulation.
90- 96	Sand, medium to fine-grained, subangular to subrounded, quartz, very fine-grained, heavy minerals.
96-150	No sample. Lost circulation.

Summary

Interval	Description	Hydrogeologic unit
0- 40	Sandy clay	Residuum
40-150	Limestone with some sand	Principal artesian aquifer

Table 16.--Well 095-15.

Interval (ft)	Sample description
0- 20	Sandy clay, red and yellow mottled clay and fine to medium-grained, subrounded, quartz sand. Sand decreases lower in section.
20- 33	Clay, dense, plastic, silty, off-white.
33- 50	Sandy clay, white, red, and yellow mottled clay and fine to medium-grained, subrounded, quartz sand.
50-150	Limestone, soft, granular, white to cream, very fossiliferous (predominantly Foraminifera, with bivalves and bryozoans). Recrystallization occurs to varying degrees.

Summary

Interval	Description	Hydrogeologic unit
0- 50	Clay or sandy clay	Residuum
50-150	Limestone	Principal artesian aquifer

Table 17.--Well 095-69.

Interval (ft)	Sample description
0- 5	Sandy clay, fine-grained, slightly silty, yellow-brown.
5-10	Clay, brick-red to gray mottled, with some fine-grained quartz sand.
10-15	Sandy clay, fine-grained, slightly silty, brick-red to gray mottled.
15-20	Sandy clay, very fine-grained, slightly silty, brick-red to gray mottled.
20-25	Sandy clay, very fine-grained, brick-red to gray mottled.
25-30	Sandy clay, very fine-grained, purple to brick-red to gray mottled.
30-35	No sample. Lost circulation.

Summary

Interval	Description	Hydrogeologic unit
0-30	Sandy clay	Residuum
30-35	Limestone	Principal artesian aquifer

Table 18.--Well 095-70.

Interval (ft)	Sample description
0- 5	Silt, sandy, and dark reddish-brown clay.
5-10	Clay, light brown, silty, slightly sandy.
10-13	Clay, red to gray mottled, sandy, silty, with some iron oxide pellets and limonite.
13-15	Clay, dense, red to gray mottled, sandy, silty, with some iron oxide pellets and limonite.
15-19	Like sample at 13-15 ft.; some fine to medium sand.
19-22	Limestone(?): No drilling fluid or sample return.

Summary

Interval	Description	Hydrogeologic unit
0-19	Clay	Residuum
19-22	Limestone	Principal artesian aquifer

Table 19.--Well 095-71.

Interval (ft)	Sample description
0- 5	Sand, medium-grained, subangular, well-sorted, with silt and red clay.
5-10	Sand, coarse-grained, subangular, well-sorted, with red clay.
10-25	Like sample at 5-10 ft.
25-30	Sand, medium-grained, silty, clayey.
30-40	Sand, coarse to very coarse-grained.

Summary

Interval	Description	Hydrogeologic unit
0-40	Sand with some clay	Residuum

Table 20.--Well 095-72.

Interval (ft)	Sample description
0- 5	Sand, fine to coarse-grained, subangular, poorly-sorted quartz.
5-10	Sand, fine-grained, subrounded, poorly sorted; some coarse, angular grains.
10-15	Sand, medium-grained, subangular, moderately well-sorted quartz.
15-20	Sand, medium to coarse-grained, subangular, poorly-sorted quartz, with some clay.
20-25	Sand, medium-grained, subrounded, moderately well-sorted quartz.
25-30	Sand, fine to coarse-grained, subangular, moderately well-sorted quartz, with some clay.
30-35	Sand, fine to medium-grained, subrounded, moderately well-sorted quartz, with some clay.
35-45	Clay, red to gray to yellow, orange-brown mottled, with fine to medium-grained quartz sand.

Summary

Interval	Description	Hydrogeologic unit
0-45	Sand and clay	Residuum

Table 21.--Well 099-39.

Interval (ft)	Sample description
0- 8	Sand and silt, fine to medium-grained, light tan, clean, quartz sand, overlain by silty, dark-gray to black topsoil.
8- 35	Silty clay, dense, light gray to orange mottled.
35-125	Limestone, soft, granular, cream, very fossiliferous (bivalves, echinoids, and Foraminifera). A 1-ft cavern was penetrated at 82 ft.

Summary

Interval	Description	Hydrogeologic unit
0- 35	Silty clay	Residuum
35-125	Limestone	Principal artesian aquifer

Table 22.--Well 099-45.

Interval (ft)	Sample description
0- 3	Sand, medium to fine-grained, quartz.
3- 5	Clay, slightly sandy, soft, gray.
5-10	Sandy clay, slightly sandy, soft, gray; contains some loose sand, which may be fall-in from above.
10-15	Sandy clay, coarse-grained, soft, gummy, very light-gray clay, with very fine-grained, fall-in sand.
15-20	Sandy clay, coarse-grained, variegated, red-brown to gray to light brown.
20-25	Sandy clay, coarse-grained, variegated, mottled.
25-35	Like sample at 20-25 ft., with some limonite nodules.
35-38	Like sample at 25-35 ft.
38-40	Sandy clay, coarse-grained, variegated, mottled; contains chips of weathered limestone.
40	Limestone, cream to white, soft, fossiliferous.

Summary

Interval	Description	Hydrogeologic unit
0-39	Sandy clay	Residuum
39-40	Limestone	Principal artesian aquifer

Table 23.--Well 099-46.

Interval (ft)	Sample description
0- 5	Sandy clay, red to yellow mottled, limonitic clay and fine-grained, well-rounded sand.
5-10	Sandy clay, gray to white to brick-red mottled clay and fine-grained, well-sorted, subrounded sand.
10-15	Sandy clay, gray to white to brick-red mottled clay and medium-grained, subangular, moderately sorted sand.
15-20	Sandy clay, brick-red to gray-white clay and medium to very coarse-grained sand.
20-25	Like sample at 15-20 ft.
25-30	Sandy clay, brick-red to gray clay and medium-grained, subangular, moderately-sorted sand.
30-35	Sandy clay, gray-white clay and medium-grained subangular, moderately-sorted sand.
35-40	Like sample at 30-35 ft.
40-46	Sandy clay, gray-white clay and coarse to medium-grained, subangular, moderately-sorted sand.
46-50	Limestone.

Summary

Interval	Description	Hydrogeologic unit
0-46	Sandy clay	Residuum
46-50	Limestone	Principal artesian aquifer

Table 24.--Well 177-15.

Interval (ft)	Sample description
0- 10	Sand, fine to medium-grained, quartz, gray.
10- 45	Sandy clay, gray to red mottled, dense, plastic.
45- 96	Limestone, cream, sandy, fossiliferous, iron oxide or manganese stains.
96- 98	Sand, medium to coarse-grained, clean, well sorted.
98-123	Limestone, cream, sandy, fossiliferous; becomes more dense and hard at depth.
123-125	Sand, fine to coarse-grained, quartz, gray.
125-155	Limestone, hard, off-white, coarse to fine-grained, sandy, with brown stain.
155-158	Clay, very fine, green.
158-190	Sand and limestone, fine to coarse-grained, clean, quartz sand; interbedded with hard, sandy, fossiliferous limestone; contains fine, green clayballs.

Summary

Interval	Description	Hydrogeologic unit
0- 45	Sandy clay	Residuum
45-190	Limestone with sand layers	Principal artesian aquifer

Table 25.--Well 177-40.

Interval (ft)	Sample description
0- 5	Sandy clay, blood-red clay with fine-grained, subrounded, well-sorted sand.
5-10	Like sample at 0-5 ft.
10-15	Like sample at 0-5 ft.
15-20	Sandy clay, yellow-brown clay with medium to coarse-grained, subangular, moderately-sorted quartz sand.
20-25	Sandy clay, limonite-yellow clay with fine to medium-grained quartz sand.
25-30	Like sample at 20-25 ft.
30-35	Sandy clay, limonite-yellow and some gray clay, with coarse to gravel-size quartz sand.
35-40	Like sample at 30-35 ft.
40-47	Sandy clay, gray-yellow clay, with gravel and and coarse quartz sand.
47-48	Limestone, white, soft, slightly sandy.

Summary

Interval	Description	Hydrogeologic unit
0-47	Sandy clay	Residuum
47-48	Limestone	Principal artesian aquifer

Table 26.--Well 177-41.

Interval (ft)	Sample description
0- 5	Sand, medium to coarse-grained, subangular, moderately sorted, stained quartz; contains minor amounts of dark-gray clay.
5-10	Sand, coarse-grained, angular, poorly-sorted quartz, with orange-gray clay.
10-15	Sand, coarse-grained, angular, poorly-sorted quartz, with brick-red to gray mottled clay.
15-20	Sand, very coarse-grained, angular, poorly sorted, with a small percentage of brick-red to gray mottled clay.
20-25	Like sample at 15-20 ft.
25-30	Sand, very coarse-grained, angular, poorly sorted, with gray clay.
30-35	Sand, very coarse-grained to pebble-size, angular, poorly sorted, with gray clay.
35-40	Like sample at 30-35 ft.
40-45	Sand, very fine-grained, subangular, well sorted, with gray clay.
45-50	Sand, medium to coarse-grained, angular, moderately sorted, with some limestone fragments.
50-55	Limestone, white, soft, fossiliferous.

Summary

Interval	Description	Hydrogeologic unit
0-50	Sand with some clay	Residuum
50-55	Limestone	Principal artesian aquifer

Table 27.--Well 177-42.

Interval (ft)	Sample description
0- 5	Sand, fine to medium-grained, subangular, white to gray, quartz.
5-10	Sandy clay, gray to brick-red mottled clay, with fine to medium-grained, subangular, quartz sand.
10-15	Sandy clay, gray to light-orange to brick-red mottled clay, with fine-grained quartz sand.
15-21	Sandy clay, gray to white to brick-red mottled clay, with fine-grained quartz sand.
21-24	Sandy clay, black to white-gray mottled clay, with fine-grained quartz sand.
24-25	Limestone.

Summary

Interval	Description	Hydrogeologic unit
0-24	Sandy clay	Residuum
24-25	Limestone	Principal artesian aquifer

Table 28.—Well 177-43.

Interval (ft)	Sample description
0- 5	Sandy clay, yellow-orange mottled clay with fine to medium-grained, subangular, quartz sand.
5-10	Sandy clay, yellow-brown mottled clay with fine to medium-grained quartz sand.
10-15	Clay, white-gray, with iron-red to black heavy minerals or limonite with iron; very little sand.
15-20	Clay, limonite-yellow to gray, contains a very minor amount of sand.
20-25	Clay, black, with vein of gravel at 24 ft.
25-34	Clay, dark yellow-brown mottled.
34-35	Limestone, soft, cream, fossiliferous.

Summary

Interval	Description	Hydrogeologic unit
0-34	Clay with small amount of sand	Residuum
34-35	Limestone	Principal artesian aquifer

Table 29.--Well 201-15.

Interval (ft)	Sample description
0-15	Sandy clay, dark-gray to pink mottled clay with fine to coarse-grained quartz sand.
15-18	Sandy clay, gray to pink mottled clay with fine to coarse-grained quartz sand.
18-20	Sandy clay, yellow clay with much fine to coarse-grained quartz sand.
20-30	Clay, gray to dark brown, unindurated, slightly silty, plastic, with mud rock; becomes light gray at 26 ft and very sandy at 29 ft.
30-45	Sandy clay, blue-gray, very sandy; thin layer of white limestone at 42 ft.
45-47	Clay, gray, sandy.
47-60	Sandy clay, gray clay with dark-brown indurated mud rock and layers of white to gray limestone, becoming more abundant at depth, sandy. Limestone is white to yellow, very soft, fossiliferous; top of limestone at 55 ft.
60-75	Limestone, white, porous, fossiliferous, becoming gray, dense, and micritic at depth; 3-ft cavern penetrated at 75 ft.

Summary

Interval	Description	Hydrogeologic unit
0-55	Sandy clay	Residuum
55-75	Limestone	Principal artesian aquifer

Table 30.—Well 201-16.

Interval (ft)	Sample description
0-10	Sandy clay, blue-gray clay with fine to coarse-grained quartz sand with some rock fragments.
10-20	Clay, gray, becoming predominantly pink, plastic, and dense at 15 ft; slightly sandy.
20-30	Clay, massive, cream, plastic; becomes slightly sandy at depth.
30-40	Clay, cream to blue-gray, plastic, moderately sandy.
40-41	Limestone, white, soft.

Summary

Interval	Description	Hydrogeologic unit
0-40	Sandy clay	Residuum
40-41	Limestone	Principal artesian aquifer

Table 31.--Well 201-33.

Interval (ft)	Sample description
0- 5	Clayey sand, medium-grained, subangular, moderately-sorted sand and brick-red to yellow clay.
5-10	Sandy clay, brick-red to yellow mottled clay with some pebble-size red hematite nodules and medium to fine-grained, subrounded, white, well-sorted sand.
10-15	Sandy clay, brick-red to yellow mottled clay with fine-grained, subrounded, white, well-sorted sand.
15-20	Clay, brick-red to gray-white mottled, with some fine-grained, well rounded, white, well-sorted sand.
20-25	Like sample at 15-20 ft.
25-30	Like sample at 15-20 ft.
30-35	Like sample at 15-20 ft., with some pebble-size grains.
35-40	Sandy clay, limonitic-yellow clay and coarse to medium grained, angular, poorly-sorted sand.
40-41	Sand and clay, black sand with clay; lost circulation.
41-42	Limestone(?): No drilling fluid or sample return.

Summary

Interval	Description	Hydrogeologic unit
0-41	Sandy clay	Residuum
41-42	Limestone	Principal artesian aquifer

Table 32.--Well 201-34.

Interval (ft)	Sample description
0- 10	Sand, fine to medium-grained, light brown.
10- 15	Clay, light gray to white to maroon, mottled.
15- 20	Clay, plastic, light gray to white to maroon, mottled.
20- 35	Clay, plastic, light gray to white to red mottled; red streak at 32-34 ft.
35- 40	Clay, plastic, light gray to blue-purple; contains some limestone pieces.
40- 50	Clay, light to dark gray.
50- 60	Clay, light to dark gray.
60- 80	Limestone, porous, cream, with chunks of gray clay.
80- 90	No sample. Lost circulation.
90- 95	Limestone, light cream.
95-110	Like sample at 90-95 ft.
110-125	Like sample at 90-95 ft.
125-140	Limestone, soft, gray, very sandy, fossiliferous; sand is fine-grained, subrounded, quartz.
140-147	No sample. Lost circulation.
147-155	Limestone, pale orange to white, calcitized, fossiliferous (shell fragments and large Foraminifera), appears weathered; interbedded with thin layers of orange-brown silty clay.
155-162	Sand and limestone, fine-grained, subrounded, medium-sorted quartz; interbedded with pale orange to white, calcitized, fossiliferous limestone, as in sample at 147-155 ft.
162-170	Limestone, hard, white to light orange-brown, calcitized, fossiliferous (shell fragments, Foraminifera, one small fish tooth), sandy; sand is fine to medium-grained, subrounded, clear quartz.

Table 32.--Well 201-34.--Continued

Interval (ft)	Sample description
170-177	Limestone, hard, white to light orange-brown, calcitized, fossiliferous (shell fragments, Foraminifera, one small fish tooth), sandy; sand is fine to medium-grained, subrounded, clear quartz; less sandy than as in sample at 162-170 ft.
177-180	Limestone, white to light orange-brown, fossiliferous, slightly sandy.
180-185	Clay, silty, light green, plastic.
185-205	Sand, fine to medium-grained, tan, clear quartz; some heavy minerals.

Summary

Interval	Description	Hydrogeologic unit
0- 60	Clay	Residuum
60-180	Limestone	Principal artesian aquifer
180-205	Hard, dense, silty limestone	Lisbon confining unit

Table 33.--Well 205-16.

Interval (ft)	Sample description
0- 15	Clayey sand, fine to medium-grained quartz sand, with grains becoming coarse and angular at depth, in a pale-orange clay matrix; rock fragments.
15- 20	Sandy clay, gray to red mottled, silty to sandy, plastic.
20- 30	Clayey sand, very coarse to fine-grained quartz sand in a light-orange clay matrix; rock fragments.
30- 50	No sample. Lost circulation (limestone).
50- 90	Limestone, soft, cream, porous, very fossiliferous (Foraminifera, bryozoans, echinoids, bivalves).
90-115	Limestone, hard, light brown, recrystallized.
115-190	Limestone, soft, cream, friable, fossiliferous (bryozoans, echinoids, and large bivalve fragments); a series of small caverns were penetrated between 140 and 185 ft.

Summary

Interval	Description	Hydrogeologic unit
0- 30	Clayey sand	Residuum
30-190	Limestone	Principal artesian aquifer

Table 34.--Well 205-34.

Interval (ft)	Sample description
0- 5	Clayey sand, medium to fine-grained, subangular, moderately sorted, black, quartz sand with some brick-red clay.
5-10	Clayey sand, medium to coarse-grained, subangular, moderately sorted, brown, quartz sand with some hematite nodules and dark clay.
10-15	Clayey sand, coarse to medium-gained, quartz sand with some pebble-size white to clear quartz nodules and heavy minerals, and dark or limonite clay.
15-20	Clayey sand, coarse-grained, subangular, moderate to well sorted, white, quartz sand and brick-red to gray to white clay.
20-25	Clayey sand, coarse-grained, angular, moderately sorted, white, quartz sand with brick-red to gray to white and limonite-yellow clay.
25-30	Clayey sand, coarse-grained, angular, moderately sorted quartz sand with brick-red clay.
30-35	Clayey sand, coarse-grained, angular, moderately sorted quartz sand with gray-white to brick-red clay.
35-40	Sandy clay, gray-white, soft clay with some fine-grained, rounded, well-sorted quartz sand.
40-45	Sandy clay, gray-white clay with minor amounts of fine-grained quartz sand.
45-50	Sandy clay, dirty-yellow and some dark clay with medium to coarse-grained, angular, poorly-sorted quartz sand.
50-55	Clayey sand, coarse-grained, angular, poorly-sorted quartz sand and dirty-yellow clay.
55-59	Clayey sand, coarse-grained, angular, poorly-sorted quartz sand and moderate amounts of dirty-yellow clay.

Table 34.--Well 205-34.--Continued

Interval (ft)	Sample description
59-60	Limestone(?): No drilling fluid or sample return.

Summary

Interval	Description	Hydrogeologic unit
0-59	Clayey sand	Residuum
59-60	Limestone	Principal artesian aquifer

Table 35.--Well 205-35.

Interval (ft)	Sample description
0- 4	Clayey sand, medium to poorly-sorted quartz in light red-brown clay matrix.
4- 5	Clayey sand, medium to poorly-sorted quartz in a red-brown to light gray mottled, clay matrix.
5-10	Sandy clay, red-brown to light gray mottled clay with some fine to coarse-grained, poorly sorted quartz sand.
10-15	Clayey sand, coarse-grained, poorly sorted, light-brown, quartz sand with light-purple to brown-red mottled clay.
15-20	Sand, medium to coarse, subangular to subrounded, poorly sorted quartz with some gravel; interbedded with layers of light-gray, sandy clay.
20-25	Like sample at 15-20 ft., but with slightly higher clay content.
25-30	Sand, medium to coarse-grained, poorly-sorted quartz with a minor amount of gray clay.
30-35	Sand, medium to coarse-grained, poorly-sorted quartz with slightly more gray clay than sample at 25-30 ft.
35-40	Sand, medium to coarse-grained, subangular to subrounded, poorly-sorted quartz with very little clay.
40-45	Sand, medium to coarse-grained, subangular to subrounded, light-brown to tan, poorly-sorted quartz with a minor amount of silty clay.
45-50	Like sample at 40-45 ft.
50-60	Like sample at 40-45 ft.

Summary

Interval	Description	Hydrogeologic unit
0-60	Sand and clayey sand	Residuum

Table 36.--Well 205-36.

Interval (ft)	Sample description
0- 5	Clayey sand, medium to coarse-grained quartz in light red-brown clay matrix with some silt.
5-10	Clayey sand, medium to coarse-grained quartz in light red-brown clay matrix with some coarse-grained quartz.
10-15	Like sample at 5-10 ft.
15-20	Clayey sand, poorly-sorted quartz, grains up to gravel size (1/2 cm), in red-gray clay matrix.
20-25	Like sample at 15-20 ft.
25-30	Clayey sand, poorly-sorted quartz, grains up to 1 cm in size, in red-gray clay matrix with sub-rounded to rounded, limonite pebbles.
30-35	Sandy clay, sandy, gravelly, with limonite pebbles.
35-39	Like sample at 30-35 ft.
39-40	Limestone, white to cream, soft.

Summary

Interval	Description	Hydrogeologic unit
0-39	Sand, clay, and sandy clay	Residuum
39-40	Limestone	Principal artesian aquifer

Table 37.--Well 205-37.

Interval (ft)	Sample description
0- 16	Sandy clay, red-orange to white clay with fine to coarse-grained, subangular, quartz sand.
16- 38	Sandy clay, brown-orange plastic clay with medium to coarse-grained, subangular to angular, poorly-sorted quartz sand.
38-283	No sample. Lost circulation.
283-288	Limestone, hard, white, fossiliferous (shell fragments, Foraminifera), sandy.
288-293	Sandstone, fine to medium-grained, subangular, glauconitic quartz; hard, fossiliferous, calcite cement.
293-360	No sample.
360-375	Siltstone, light gray, hard, with abundant fossils; interbedded with very fine-grained quartz sand.
375-390	Sand, very fine-grained quartz, phosphatic, heavy minerals; interbedded with lenses of fossiliferous, silty limestone.
390-400	Sandy clay, very soft, green-gray, silty, phosphatic with very fine-grained quartz sand.
400-420	Sand, fine-grained, well sorted, fossiliferous (shell fragments), glauconitic.

Summary

Interval	Description	Hydrogeologic unit
0- 38	Sandy clay	Residuum
38-288	Limestone	Principal artesian aquifer
288-400	Silty, hard, cemented limestone with clay	Lisbon confining unit
400-420	Sand	Tallahatta aquifer

Table 38.—Well 205-38.

Interval (ft)	Sample description
0- 36	Sandy clay, large, siliceous limestone boulders.
36-138	No sample. Lost circulation.
138-145	Cavern penetrated.
145-151	No sample. Lost circulation.
151-154	Cavern penetrated.
154-157	No sample. Lost circulation.
157-159	Cavern penetrated.
159-225	No sample. Lost circulation.

Summary

Interval	Description	Hydrogeologic unit
0- 36	Sandy clay	Residuum
36-225	Limestone	Principal artesian aquifer

Table 39.--Well 253-08.

Interval (ft)	Sample description
0- 20	Clayey sand, fine to coarse-grained, subangular to subrounded, clear quartz in a matrix of gray to orange clay.
20- 55	Sandy clay, fine to coarse-grained, very sandy, white to red to yellow mottled.
55-100	Limestone, soft, porous, partially recrystallized, fossil hash (predominantly Foraminifera and bryozoans); varying proportions of orange clay and fine to coarse-grained quartz sand.
100-150	Limestone, granular, white to cream, very fossiliferous, becoming harder and recrystallized towards bottom.

Summary

Interval	Description	Hydrogeologic unit
0- 55	Sandy clay and clayey sand	Residuum
55-150	Limestone	Principal artesian aquifer

Table 40.--Well 253-26.

Interval (ft)	Sample description
0- 10	Sandy clay, orange, with rock fragments and medium to coarse-grained quartz sand.
10- 52	Sandy clay, white to red to yellow mottled, dense, with some quartz sand.
52- 90	Limestone, granular, white to pale yellow, soft, very fossiliferous.
90-125	Limestone, pale orange to medium orange, recrystallized, containing occasional red clay balls in lower portion.

Summary

Interval	Description	Hydrogeologic unit
0- 52	Sandy clay	Residuum
52-125	Limestone	Principal artesian aquifer

Table 41.--Well 253-27.

Interval (ft)	Sample description
0- 5	Sand, fine to medium-grained, subangular, fair to moderately sorted, tan-brown quartz.
5- 7	Sandy clay, 20 percent quartz sand (as sample at 0-5 ft), tan-brown.
7-15	Sandy clay, light gray to white with some pink streaks and very finely disseminated quartz sand.
15-23	Clay, very pure, hard, sticky, light gray.
23-30	Sandy clay, yellow clay with some interbedded layers of clay (as sample at 15-23 ft), with 15 percent quartz sand.
30-35	Like sample at 23-30 ft., with more gray to white clay.
35-37	Like sample at 30-35 ft.
37-38	No sample. Lost circulation.

Summary

Interval	Description	Hydrogeologic unit
0-37	Sandy clay	Residuum
37-38	Limestone	Principal artesian aquifer

Table 42.--Well 253-28.

Interval (ft)	Sample description
0- 5	Clayey sand, medium grained, subangular, moderately-sorted quartz sand with some quartz pebbles, and about 40 percent brick-red clay.
5-10	Sandy clay, gray to red mottled clay with about 10 percent coarse to pebble-size, subangular, moderately-sorted quartz sand.
10-15	Sandy clay, gray-white to red mottled clay with about 10 percent medium to pebble-size, subangular, poorly-sorted quartz sand.
15-20	Like sample at 10-15 ft.
20-25	Like sample at 10-15 ft.
25-30	Sandy clay, brick-red clay with about 20 percent medium-grained, angular, poorly-sorted quartz sand.
30-35	Like sample at 25-30 ft.
35-40	Sandy clay, brick-red to gray mottled clay with about 10 percent medium to fine-grained, subangular, quartz sand.
40-45	Sandy clay, brick-red clay with about 20 percent fine to coarse-grained, angular, poorly-sorted quartz sand.
45-54	Sandy clay, brick-red clay with about 20 percent fine to coarse-grained to pebble-size, angular poorly-sorted quartz sand.
54-55	Limestone, white, soft, fossiliferous.

Summary

Interval	Description	Hydrogeologic unit
0-54	Sandy clay	Residuum
54-55	Limestone	Principal artesian aquifer

Table 43.--Well 261-22.

Interval (ft)	Sample description
0- 5	Sandy clay, limonite-yellow to brick-red mottled clay with fine to medium-grained and some coarse-grained, subangular, quartz sand.
5-10	Sandy clay, brick-red mottled clay with fine to medium-grained, subangular, quartz sand.
10-15	Sandy clay, yellow-brown mottled clay with fine coarse-grained, subangular, poorly-sorted quartz sand.
15-20	Sandy clay, yellow-brown mottled clay with coarse chert granules and fine to coarse-grained, subangular, poorly-sorted quartz sand.
20-25	Clay, limonite-yellow, slightly mottled, with medium to coarse-grained chert granules.
25-30	Sandy clay, limonite-yellow, slightly mottled clay with fine-grained, subangular, quartz sand.
30-34	Clay, limonite-yellow, with some dark organic matter and a small amount of sand.
34-35	Limestone, white to cream, soft.

Summary

Interval	Description	Hydrogeologic unit
0-34	Sandy clay	Residuum
34-35	Limestone	Principal artesian aquifer

Table 44.--Well 273-14.

Interval (ft)	Sample description
0- 5	Clay, thick, gummy, light red-brown, with sand-sized grains of limonite, weathered chert, and quartz.
5-10	Sandy clay, dense, hard, gummy, red-brown and gray-streaked clay with interbedded layers of slightly softer, brick-red, sandy clay.
10-15	Like sample at 5-10 ft., with chips of weathered chert.
15-20	Clay, dense, tough, white to red-brown to black, slightly sandy.
20-21	Hard rock, "cherty" boulder.
21-40	Like sample at 15-20 ft., with thin layers of weathered chert and limestone.
40-45	Sand, coarse-grained, poorly-sorted quartz, with thin streaks of chert and weathered limestone.
45-46	Limestone, soft, white.

Summary

Interval	Description	Hydrogeologic unit
0-45	Clay and sand	Residuum
45-46	Limestone	Principal artesian aquifer

Table 45.--Well 321-03.

Interval (ft)	Sample description
0- 10	Sand, coarse-grained to pebble-sized, poorly-sorted quartz.
10- 20	Like sample at 0-10 ft., with a minor amount of heavy minerals and clay.
20- 30	Clayey sand, fine-grained quartz sand, well sorted, with some heavy minerals and orange clay.
30- 40	Clayey sand, fine-grained quartz sand, well sorted, with orange clay.
40- 70	Limestone, (at 50 ft.) white to cream, fossiliferous, slightly clayey.
70-100	Limestone, hard, white to cream, fossiliferous, slightly dolomitic.
100-120	Limestone, hard, white to cream, fossiliferous.
120-150	Limestone, hard, cream, fossiliferous; small amounts of dolomite crystals.
150-160	Sand, fine-grained, well-sorted quartz.
160-200	Sandy limestone, cream, fossiliferous, with some fine-grained, slightly glauconitic, quartz sand.
200-220	Limestone, soft, gray, fossiliferous; sandy in upper portion.
220-240	Limestone, soft, gray, fossiliferous; quartz grains present.
240-280	Sandy limestone, soft, gray, fossiliferous, with a moderate amount of fine-grained, well-sorted quartz sand.
280-290	Sand, fine-grained, well-sorted, fossiliferous, glauconitic.
290-300	Sand, fine-grained quartz, well sorted, fossiliferous, glauconitic, calcareous; clay present.
300-330	Sand, fine-grained quartz, well sorted, fossiliferous, glauconitic, some clay, micaceous; becoming more poorly sorted at 320 ft.

Table 45.--Well 321-03.--Continued

Summary

Interval	Description	Hydrogeologic unit
0- 40	Clay and sand	Residuum
40-160	Limestone with sand layer at bottom	Principal artesian aquifer
160-250	Silty to sandy, hard, cemented limestone	Lisbon confining unit
250-330	Sand	Tallahatta aquifer

Table 46.--Well 321-09.

Interval (ft)	Sample description
0- 3	Sand, fine-grained, subangular, well-sorted quartz.
3- 5	Clay, brick red to gray mottled.
5-10	Clay, yellow-orange to brick-red to gray mottled, with a minor amount of fine-grained quartz sand.
10-15	Sandy clay, gray-red mottled clay with fine-grained quartz sand.
15-20	Sandy clay, gray-white to brick-red clay with fine-grained quartz sand.
20-25	Sandy clay, gray-white clay with a small amount of fine-grained quartz sand.
25-30	Like sample at 20-25 ft.
30-35	Sandy clay, slightly mottled clay with coarse-grained sand.
35-42	Clay, brick-red to orange-yellow to gray-white mottled, with a very small amount of sand.
42-43	Limestone, soft, white to light gray.

Summary

Interval	Description	Hydrogeologic unit
0-42	Sandy clay	Residuum
42-43	Limestone	Principal artesian aquifer

Table 47.--Semiannual water levels, in feet below land surface, for wells in the principal artesian aquifer, 1977-80

Well number	1977			1978			1979			1980		
	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level
007-01				03	07	53.53	03	14	49.67	03	04	55.32
	12	05	58.06	12	06	58.80	11	13	59.87	05	14	47.15
007-02	04	13	28.92	03	07	37.45	03	15	35.20	03	04	39.06
	12	05	43.05	12	06	51.82	11	13	44.18	05	14	23.00
007-03				03	07	32.88	03	14	30.60	03	04	33.34
	12	05	39.20	12	06	38.24	11	14	38.13	05	14	17.12
007-04	04	13	29.47	03	07	34.35	03	14	31.97	03	04	36.26
	12	05	41.13	12	06	40.84	11	14	38.13	05	14	22.60
007-08				03	07	38.00	03	14	38.48	03	04	43.46
	12	05	43.13	12	06	43.93	11	14	48.05			
007-09				03	07	28.00	03	14	27.89	03	04	30.45
	12	05	55.06	12	06	58.35	11	14	35.68	05	15	27.48
007-10	04	13	14.78	03	07	14.96	03	14	14.86	03	04	18.59
	12	05	41.36	12	06	41.09	11	14	23.10	05	15	27.48
007-11				03	08	40.68	03	14	40.20	03	04	47.03
	12	05	46.89	12	06	48.39	11	14	44.62	05	14	34.37
007-12				03	08	40.70	03	14	39.03	03	04	44.62
	12	06	45.60	12	06	48.07	11	14	46.09	05	14	40.56
007-13				03	09	29.89	03	14	31.65	03	04	38.68
	12	06	37.81	12	06	39.32	11	14	45.06	05	14	32.95

Table 47.—Semiannual water levels, in feet below land surface, for wells in the principal artesian aquifer, 1977-80--Continued

Well number	1977			1978			1979			1980		
	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level
007-14	04	12	12.35	03	09	21.31	03	14	23.06	03	04	30.33
	12	05	28.44	12	06	31.37	11	14	29.90	05	14	14.70
007-15				03	07	41.61	03	14	19.37	03	04	33.55
	12	05	49.78	12	06	49.68	11	14	50.28	05	15	17.80
007-16				03	09	29.94	03	14	33.66	03	04	42.40
	12	06	41.94	12	06	43.53	11	14	43.12	05	14	32.11
007-17				03	07	38.77	03	14	35.82	03	04	42.10
	12	05	64.97	12	06	64.89	11	13	53.94	05	15	35.62
007-18				03	08	37.41	03	14	36.31	03	04	42.78
	12	06	44.23	12	06	45.37	11	14	44.52			
007-19				03	09	29.03	03	14	33.99	03	04	43.10
	12	05	41.73	12	06	43.70	11	14	42.38	05	14	30.38
007-20												
007-21				03	07	8.12	03	13	7.67	03	04	17.02
	12	05	21.11	12	06	22.30	11	13	23.37	05	14	9.03
007-22				03	09	4.62	03	13	6.30	03	04	13.84
	12	06	35.10	12	06	33.90	11	13	27.35	05	15	7.90
007-23				03	07	29.52	03	13	28.27	03	04	32.34
	12	05	56.01	12	06	58.78	11	13	44.37	05	15	27.72

Table 47.—Semiannual water levels, in feet below land surface, for wells in the principal artesian aquifer, 1977-80—Continued

Well number	1977			1978			1979			1980		
	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level
007-24				03	07	13.28	03	13	12.88	03	04	15.12
	12	05	27.86	12	06	39.47	11	13	22.38	05	15	14.17
007-27	04	14	20.10	03	07	18.89	03	13	18.13	03	04	19.73
	12	05	22.90	12	06	23.89	11	13	22.31	05	15	18.68
007-28				03	08	16.02	03	14	15.75	03	04	19.93
	12	06	22.77	12	05	25.72	11	14	23.44	05	15	13.61
007-29							03	13	8.60	03	04	11.04
	12	05	14.50	12	06	13.30	11	13	11.47	05	15	7.22
007-30				03	08	25.81	03	14	26.32	03	04	31.09
	12	06	33.37	12	05	36.70	11	14	34.10	05	15	23.76
007-31				03	08	14.10	03	14	14.45	03	05	22.02
	12	06	26.09	12	05	32.00	11	14	24.45	05	14	15.98
007-32				03	08	27.85	03	14	18.50	03	05	29.30
	12	06	32.85	12	05	39.10	11	14	34.85	05	14	17.30
007-33				03	07	5.65	03	13	5.15	03	04	6.44
	12	05	9.22	12	06	6.89	11	13	8.45	05	15	3.40
007-34				03	08	19.52	03	14	20.04	03	05	25.43
				12	05	30.87	11	14	26.96	05	14	17.88
007-35				03	08	21.02	03	14	19.79	03	05	29.23
	12	06	33.52	12	05	39.46	11	14	31.02	05	14	19.05

Table 47.--Semiannual water levels, in feet below land surface, for wells in the principal artesian aquifer, 1977-80--Continued

Well number	1977			1978			1979			1980		
	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level
007-36				03	09	46.02	03	14	42.02	03	05	55.12
	12	06	52.78	12	05	53.24				05	16	46.83
007-37				03	09	37.49	03	14	33.51	03	05	42.83
	12	06	41.91	12	05	43.16				05	16	36.40
037-02	02	03	1.70	03	07	1.59	03	13	1.47	03	03	6.50
	11	30	5.94	12	04	8.70	11	13	9.80			
037-03				03	07	17.66	03	13	18.57	03	03	28.00
	11	30	26.11	12	05	34.32	11	13	33.30	05	12	20.40
037-04				03	07	24.18	03	13	23.27	03	05	24.00
	11	30	25.45	12	05	24.47	11	13	24.46	05	12	24.06
037-05	02	02	22.49	03	07	21.70	03	13	20.61	03	03	25.18
	11	30	23.97	12	05	26.70	11	13	27.40	05	12	21.53
037-06	02	15	32.24	03	07	31.75	03	13	30.94	03	05	35.00
	11	30	37.88	12	04	36.73	11	13	38.78	05	12	32.10
037-10										03	05	8.60
										05	12	8.67
081-08				03	06	21.71	03	12	23.13			
	11	16	25.27	12	04	26.41	11	01	25.91			
081-12				03	06	13.18	03	12	12.27			
	12	08	20.51	12	04	23.00						

Table 47.--Semiannual water levels, in feet below land surface, for wells in the principal artesian aquifer, 1977-80--Continued

Well number	1977			1978			1979			1980		
	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level
081-14				03	06	22.55	03	12	22.80			
	11	16	25.34	12	04	25.15	11	01	24.82			
081-20				03	06	3.39	03	12	3.78			
	12	08	5.64	12	04	7.95	11	01	5.20			
081-21				03	06	37.50	03	12	37.23			
	11	16	47.87	12	04	48.79	11	01	38.27			
081-22				03	06	23.34	03	12	23.70			
	11	16	25.60	12	04	26.19	11	01	25.25			
087-02				04	06	5.70	03	13	5.59			
							11	15	6.63	05	13	3.92
087-03							03	13	24.68	03	04	24.75
							11	15	24.86	05	13	23.25
087-04							03	13	32.36	03	04	32.62
							11	15	32.75	05	13	31.43
087-05							03	13	37.53	03	05	37.90
							11	15	38.13			
087-06							03	13	38.06	03	04	38.84
							11	15	39.11	05	12	35.86
087-08							04	05	25.08	03	05	25.02
							11	27	26.01	05	12	19.73

Table 47.--Semiannual water levels, in feet below land surface, for wells in the principal artesian aquifer, 1977-80--Continued

Well number	1977			1978			1979			1980		
	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level
087-09							03	13	39.65	03	05	40.02
							11	15	40.36	05	12	,37.83
087-12				03	06	38.37	03	13	37.89	03	04	35.68
	12	07	40.69	12	14	42.06	11	15	38.56	05	13	82.83
087-17				03	06	33.65	03	13	33.07	03	05	34.33
	12	07	36.79	12	14	37.53	11	15	33.53	05	13	29.31
087-20				03	06	37.69	03	13	37.69	03	06	37.86
	12	07	43.07				11	14	35.95			
087-21				04	06	45.24	03	13	47.03	03	05	49.84
	12	07	50.39	12	14	51.64	11	15	48.04	05	14	40.94
087-22				03	07	33.06	03	16	34.29	03	05	34.75
				12	12	37.48	11	15	33.95			
087-24				03	06	34.11	03	13	34.57	03	05	35.45
	12	07	38.93				11	14	36.50	05	14	88.56
087-25												
087-26												
087-27				03	06	27.96	03	13	26.57	03	04	27.91
	12	07	33.67	12	13	32.58	11	14	27.74	05	15	16.70

Table 47.--Semiannual water levels, in feet below land surface, for wells in the principal artesian aquifer, 1977-80--Continued

Well number	1977			1978			1979			1980		
	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level
087-29							03	16	46.60	03	05	49.04
							11	15	46.65	05	13	34.08
087-30							03	13	39.79	03	05	40.62
							11	14	39.88	05	15	28.52
087-31							03	13	31.47	03	05	34.84
							11	14	35.89	05	14	29.44
087-34							04	04	47.94	03	05	50.35
087-36										03	04	31.00
							11	14	31.29	05	15	21.71
087-37				03	09	50.05	03	16	58.61	03	05	58.87
	12	06	60.48	12	14	63.65	11	15	59.63	05	14	49.10
087-38										03	05	25.68
							11	14	25.59	05	15	14.23
087-39							04	04	49.03			
							11	25	51.05			
087-41				04	06	31.79	03	13	35.23	03	05	35.93
	12	07	43.58	12	14	42.10	11	15	37.04			
093-01										03	06	21.22

Table 47.--Semiannual water levels, in feet below land surface, for wells in the principal artesian aquifer, 1977-80--Continued

Well number	1977			1978			1979			1980		
	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level
093-02										03	06	28.09
093-04										03	06	53.68
093-12	07		115									
095-01							03	14	26.49			31.60
				12	05	31.85				05	16	26.85
095-02				03	09	40.41	03	14	37.75	03	05	39.34
	12	06	39.81	12	05	39.32				05	16	33.28
095-06	02	17	31.50	03	08	27.59	03	13	7.12	03	04	10.78
	12	01	39.65	12	05	35.90				05	15	.81
095-08				03	09	44.55	03	14	43.27	03	05	47.99
	12	06	49.89	12	05	41.82				05	16	40.80
095-09										03	05	71.83
										05	15	64.50
095-11				03	09	39.65	03	14	37.82	03	05	42.83
	12	06	45.11	12	05	46.13				05	16	36.40
095-12				03	09	11.00	03	14	11.43	03	04	12.80
	12	07	23.48	12	05	16.35				05	15	9.80

Table 47.--Semiannual water levels, in feet below land surface, for wells in the principal artesian aquifer, 1977-80--Continued

Well number	1977			1978			1979			1980		
	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level
095-16				03	09	23.85	03	14	18.25	03	04	21.47
	12	07	28.58	12	05	28.71				05	15	15.95
095-21							03	14	38.42	03	04	43.19
095-22							03	14	61.85	03	04	64.69
095-23							03	14	71.28	03	04	47.00
										05	16	40.06
095-29							03	14	53.97	03	04	59.10
										05	16	58.61
095-32							03	14	38.25	03	04	44.24
										05	16	38.72
095-33	02	17	24.93	03	09	22.80	03	14	23.56	03	04	25.77
	11	30	28.43	12	05	27.41				05	15	24.35
095-34							03	14	40.34	03	04	46.40
										05	16	40.88
095-35							03	14	42.82	03	04	47.00
										05	16	40.06
095-36							03	14	53.12	03	04	58.23
										05	16	56.34

Table 47.--Semiannual water levels, in feet below land surface, for wells in the principal artesian aquifer, 1977-80--Continued

Well number	1977			1978			1979			1980		
	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level
095-37							03	14	50.01	03	04	55.07
										05	16	46.80
095-38							03	14	50.90	03	04	56.95
										05	16	49.67
095-39							03	14	81.05	03	04	74.46
										05	16	69.33
095-41							03	14	44.45	03	04	50.04
										05	16	48.49
095-43				03	08	35.83	03	14	31.86	03	05	39.80
	12	07	41.34	12	05	41.88				05	16	39.84
095-66	02	17	38.80	03	08	39.05	03	13	30.95	03	05	45.58
	12	08	61.39	12	06	59.50				05	16	29.51
099-01	01	26	31.20	03	06	28.55	03	12	23.84	03	03	34.91
	11	29	46.01	12	04	53.40	11	12	44.09	05	13	30.46
099-03	01	26	13.89	03	06	12.80	03	12	12.98	03	03	22.94
	11	29	26.49	12	04	44.50	11	12	29.49	05	13	16.25
099-04	01	26	20.48	03	06	21.20	03	12	20.25	03	03	33.96
	11	28	39.97	12	04	53.81	11	12	39.25	05	13	22.51
099-05	01	26	23.44	03	06	24.52	03	12	22.87	03	03	40.13
	11	28	42.13	12	04	53.30	11	12	44.48	05	13	30.91

Table 47.—Semiannual water levels, in feet below land surface, for wells in the principal artesian aquifer, 1977-80--Continued

Well number	1977			1978			1979			1980		
	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level
099-06	01	26	3.10	03	06	0.58	03	12	3.07	03	03	16.01
	11	29	27.45	12	04	23.09	11	12	18.04	05	13	28.50
099-11	01	26	16.06	03	06	15.08	03	12	14.50	03	03	36.27
	11	28	40.96	12	04	54.51	11	12	42.76	05	13	18.20
099-12				03	06	18.46	03	13	18.07	03	03	40.42
	11	29	42.00	12	04	51.92	11	12	43.28	05	13	24.83
099-13	01	25	11.28	03	06	11.07	03	13	10.66	03	03	27.09
	11	29	25.11	12	04	35.22	11	12	31.30			
099-14	01	25	28.29	03	06	30.25	03	13	28.70	03	03	40.69
	11	29	36.69	12	04	52.07	11	12	44.75	05	13	34.28
099-15	01	25	3.47	03	06	2.54	03	13	2.91	03	03	19.00
	11	29	18.85	12	04	26.80	11	12	22.94	05	14	3.72
099-16	01	25	22.29	03	06	23.38	03	13	24.52	03	03	28.34
	11	29	24.58	12	04	37.97	11	12	29.91	05	14	22.40
099-17	01	25	12.98	03	06	15.66	03	13	12.71	03	03	25.37
	11	29	22.45	12	04	36.17	11	12	29.32	05	13	15.28
099-18				03	06	5.28	03	13	4.80	03	03	25.97
	11	29	29.67	12	04	50.72	11	12	32.73	05	12	8.40
099-20	01	26	12.30							03	03	15.67
										05	13	20.50

Table 47.--Semiannual water levels, in feet below land surface, for wells in the principal artesian aquifer, 1977-80--Continued

Well number	1977			1978			1979			1980		
	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level
099-21										03	04	15.00
										05	13	15.91
099-30				03	07	29.57	03	13	28.40	03	03	30.05
	11	29	32.67	12	05	38.00	11	12	31.91			
099-32							03	13	18.94	03	03	25.33
				12	05	30.03	11	12	24.85	05	12	19.60
099-36	01	27	19.09	03	06	19.28	03	13	19.02	03	03	20.84
	11	29	23.10	12	05	25.18	11	12	24.39	05	12	20.30
099-37				03	06	7.06	03	12	7.56	03	04	9.74
	11	29	17.66	12	04	25.22	11	12	19.83	05	12	9.00
099-38				03	06	18.03	03	13	17.33	03	04	22.72
	11	29	36.43	12	05	36.38	11	13	34.54	05	12	18.59
099-39				03	07	20.08	03	13	20.23	03	04	23.15
	11	30	27.07	12	04	33.19	11	12	28.33	05	12	20.09
099-41				03	06	17.29				03	04	19.36
	11	29	28.69	12	05	26.20	11	12	28.71	05	13	19.82
099-42				03	07	70.82	03	13	71.77	03	03	72.70
	11	28	69.88	12	05	75.32	11	13	75.35	05	15	70.76
131-01							04	04	50.40			

Table 47.--Semiannual water levels, in feet below land surface, for wells in the principal artesian aquifer, 1977-80--Continued

Well number	1977			1978			1979			1980		
	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level
131-02				03	21	79.78	04	05	82.40	03	05	83.55
							11	12	83.12	05	12	75.43
131-03							04	04	34.11	03	05	37.10
							11	12	35.65			
177-05				03	10	20.12	03	15	24.15	03		28.25
	12	07	28.60	12	07	38.65				05	15	22.50
177-06				03	10	20.60	03	15	18.60	03		19.67
	12	07	50.65	12	07	55.05				05	15	30.00
177-08				03	10	15.94	03	15	72.12	03		32.01
				12	07	43.95				05	14	29.60
177-10				03	10	13.67	03	15	15.42	03		19.38
	12	07	30.28	12	07	32.16				05	14	15.72
177-11				03	10	14.08	03	15	18.31	03		18.74
				12	07	25.16				05	14	17.02
177-13				03	10	7.28	03	15	8.05	03		23.54
				12	07	32.02				05	14	5.75
177-15				03	10	10.83	03	15	.62	03		2.99
										05	15	.23
177-16				03	10	28.03	03	15	28.30	03		31.38
				12	07	36.00				05	14	24.55

Table 47.--Semiannual water levels, in feet below land surface, for wells in the principal artesian aquifer, 1977-80--Continued

Well number	1977			1978			1979			1980		
	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level
177-20				03	10	31.28	03	15	26.57	03		29.72
	12	07	38.75	12	06	41.08				05	14	23.13
177-21				03	10	27.80	03	15	26.95	03		30.10
				12	06	38.48				05	15	22.62
177-22				03	10	3.77	03	15	4.60	03		7.48
	12	07	6.07	12	06	7.13				05	15	4.69
177-25				03	10	32.06	03	15	32.70	03		36.03
	12	07	42.43	12	07	48.98				05	15	33.31
177-26				03	10	7.49	03	15	10.00	03		12.82
				12	06	40.72				05	14	12.15
177-27				03	10	30.73	03	15	36.00	03		38.48
				12	06	48.53				05	14	43.22
177-29				03	10	14.00	03	15	13.00	03		16.26
				12	06	28.85				05	14	15.69
177-30				03	10	19.17	03	15	20.06	03		34.69
				12	06	51.49				05	14	24.11
177-32				03	10	11.39	03	15	10.98	03		12.48
				12	06	21.84				05	14	11.48
177-35				03	10	.77				03		3.70
				12	06	7.95	03	15	1.24	05	14	1.71

Table 47.—Semiannual water levels, in feet below land surface, for wells in the principal artesian aquifer, 1977-80--Continued

Well number	1977			1978			1979			1980		
	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level
177-36							03	22	31.50			
177-37				03	10	12.87	03	15	13.41	03		14.68
				12	06	30.17				05	14	14.68
177-39				03	10	15.29	03	15	15.83	03		15.54
				12	06	23.54				05	14	15.08
201-01							03	15	42.87	03	04	47.37
	12	05	51.68	12	13	51.77	11	13	41.83	05	14	43.50
201-02				03	08	42.39	03	15	45.92	03	04	46.11
	12	06	52.19	12	14	52.10	11	12	46.96	05	14	32.69
201-03				03	07	25.74	03	15	27.60	03	04	29.14
				12	13	32.26	11	13	25.26	05	14	27.54
201-04							03	15	45.60	03	04	44.96
	12	06	52.44				11	12	45.79	05	14	31.25
201-06				03	08	39.47	03	15	44.79	03	04	47.33
	12	06	58.45	12	14	57.07	11	12	46.22	05	14	33.22
201-07							03	15	34.00	03	04	41.68
							11	13	42.12	05	14	34.97
201-08							03	15	9.13	03	03	9.88
							11	13	9.96	05	14	8.75

Table 47.--Semiannual water levels, in feet below land surface, for wells in the principal artesian aquifer, 1977-80--Continued

Well number	1977			1978			1979			1980		
	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level
201-09				03	08	16.32				03	03	30.30
	12	05	37.47	12	13	46.64	11	13	33.12	05	14	21.18
201-10				03	08	11.68	03	15	13.26	03	03	14.60
	12	05	17.69	12	13	19.48	11	13	13.48	05	14	13.24
201-11							03	15	22.38			
							11	13	31.65			
201-12				03	08	20.06	03	15	20.67	03	03	34.67
	12	05	40.05	12	13	51.50	11	13	40.08	05	14	22.51
201-13							03	15	23.45	03	03	24.92
							11	13	24.65	05	14	23.22
201-14							03	15	29.45	03	03	30.53
							11	13	30.16	05	14	30.09
201-18				03	08	21.96	03	12	31.25	03	03	35.66
	12	06	47.82	12	14	46.50	11	12	33.94	05	14	13.59
201-20							03	15	23.05	03	03	24.38
				12	13	35.01	11	13	26.10	05	14	23.89
201-21				03	08	12.50	03	15	14.50	03	03	27.45
	12	05	31.99	12	13	44.40	11	13	31.27	05	14	16.68

Table 47.--Semiannual water levels, in feet below land surface, for wells in the principal artesian aquifer, 1977-80--Continued

Well number	1977			1978			1979			1980		
	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level
201-22				03	08	52.26	03	15	59.20	03	04	47.83
	12	06	83.23	12	14	82.66	11	12	55.48	05	14	46.68
201-23							03	15	16.68	03	03	25.20
							11	13	28.23	05	14	11.93
201-24							03	15	17.95	03	03	18.86
	12	06	21.15	12	13	35.01	11	13	29.21	05	14	18.48
201-25				03	08	26.43				03	04	38.64
	12	06	58.79	03	15	32.94	11	12	48.68	05	14	23.30
201-26							03	15	5.70	03	03	10.97
							11	13	14.76	05	14	6.90
201-28							03	15	29.34	03	04	36.13
							11	12	46.48	05	14	25.73
201-29							03	15	34.63	03	03	37.17
							11	13	39.06	05	14	35.70
201-30							03	15	16.94	03	03	24.92
							11	12	33.07	05	14	12.39
201-32										03	03	21.69
							11	12	26.97			
205-02							03	16	38.33	03	04	39.85
	12	08	41.50	12	07	41.56	11	12	44.17			

Table 47.--Semiannual water levels, in feet below land surface, for wells in the principal artesian aquifer, 1977-80--Continued

Well number	1977			1978			1979			1980		
	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level
205-03							04	04	57.93	03	04	62.58
							11	12	61.32			
205-04										03	04	39.05
	12	08	42.01	12	12	40.98	11	12	39.71			
205-06										03	04	62.95
205-08				03	13	46.38	04	04	48.99	03	04	51.79
							11	12	48.14			
205-10										03	04	48.80
205-11				03		26.25				03	03	36.10
							11	12	36.45	05	16	24.47
205-13										03	04	43.00
	12	08	45.54	12	12	45.67	11	12	43.46			
205-17										03	04	34.93
	12	08	38.00	12	12	35.55	11	12	36.22			
205-18							04	04	24.30	03	04	29.25
							11	12	31.70			
205-19							04	04	34.62	03	03	35.05
							11	12	35.05			

Table 47.--Semiannual water levels, in feet below land surface, for wells in the principal artesian aquifer, 1977-80--Continued

Well number	1977			1978			1979			1980		
	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level
205-20				03	14	164.64				03	03	169.65
							11	12	171.00			
205-23							04	03	19.56	03	03	21.73
							11	12	24.23			
205-25				03	14	14.92				03	04	26.79
							11	12	30.10			
253-01				03	07	47.30				03	05	48.05
	12	05	48.50	12	12	50.58	11	04	58.23	05	13	47.55
253-02							03	04	10.02	03	04	15.37
253-03				03	07	60.24	03	14	62.48	03	05	62.13
	12	05	63.86	12	12	66.25	11	14	63.60	05	13	62.25
253-04				03	14	9.52				03	04	10.14
							11	14	11.09	05	13	9.22
253-06				03	07	31.32	03	14	30.69	03	04	33.30
	12	05	38.09	12	12	37.98	11	14	34.35			
253-07							03	14	21.48	03	04	28.99
							11	14	34.53	05	13	19.75
253-09				03	07	55.05	03	14	52.90	03	04	62.55
				12	13	69.09	11	14	62.30	05	13	51.09

Table 47.--Semiannual water levels, in feet below land surface, for wells in the principal artesian aquifer, 1977-80--Continued

Well number	1977			1978			1979			1980		
	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level
253-10							03	14	36.53	03	04	44.36
	12	05	53.37	12	12	55.62	11	14	46.29			
253-11							03	14	14.68	03	04	20.59
							11	14	21.59	05	13	11.36
253-13							03	14	40.60	03	04	44.18
				12	12	47.47	11	13	46.54	05	13	40.19
253-14							03	14	33.05	03	04	44.42
							11	14	45.26	05	13	28.49
253-15							03	14	33.15	03	04	42.62
	12	05	53.36	12	12	53.36	11	13	44.15	05	13	30.88
253-16				03	07	40.80	03	14	40.56	03	04	44.72
							11	14	45.34	05	13	38.27
253-17				03	07	38.62	03	14	39.18	03	04	46.60
	12	05	56.19	12	13	51.28	11	13	45.44	05	14	37.13
253-18	03	14	21.93									
	11	14	33.99									
253-19	06	06	43	06	02	28	06	21	33			
	11	30	43	12	02	44						
253-23				03	07	17.24	03	14	18.07			
	12	05	36.09	12	13	36.17	11	13	18.73			

Table 47.--Semiannual water levels, in feet below land surface, for wells in the principal artesian aquifer, 1977-80--Continued

Well number	1977			1978			1979			1980		
	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level	Month	Day	Water level
253-25							11	14	45.34	05	13	38.27
							03	14	11.83	03	04	25.22
273-01										03	05	5.95
										05	12	5.30
273-02										03	05	18.62
										05	12	13.00
273-03										03	05	15.46
										05	12	10.17
273-09										03	06	46.49
										05	12	20.99
273-10										03	06	38.32
										05	12	20.40
321-01	03	07	22.71	03	08	37.41	03	13	34.50			
	12	01	57.22	12	04	61.02						
321-06	03	07	17.78	03	07	18.39	03	13	17.96			
	12	08	24.70	12	04	25.70						

Table 48.--Specific-capacity data for wells in the principal artesian aquifer

Well number	Diameter of well (in.)	Length of open hole (ft)*	Aquifer thickness (ft)	Static water level (ft)	Drawdown (ft)	Duration of pumping (hrs)*	Discharge (gal/min)	Specific capacity [(gal/min)/ft]
007-34	16	108	150	19	11	8*	1,500	136
037-08	12	82	82	32	20	8	572	29
081-17	10	90	150	15	24	4*	402	17
087-25	12	140	277	46	4	8*	800	200
087-28	12	100*	325	35.97	4.09	.017	700	171
093-11	10	28	50	115	17	6*	90	5
093-12	10	38	50	97	20	6	226	11
095-13	6	52	110	7	7	36	349	50
095-17	10	168	208	41.33	2.5	8*	1,000	400
095-35	12	124	230	57	6	8*	1,500	250
095-45	16	109	180	32.50	1.45	48	1,387	956
095-46	16	111	180	28	74	48	1,725	23
095-47	16	100	202	55	1	1.0	1,040	1,040
095-48	16	134	205	66	13	1.0	1,016	78
095-62	16	55	150	17	54	8	210	4
095-63	12	62	150	42.5	80	8	254	3
095-66	12	64	64	21	71	144	401	6
099-29	16	41	60	17	5	8*	1,500	300
177-14	6	60	138	42	18	12	150	8
205-11	20	100	302	55	3	24	1,599	533
205-12	12	186	302	44	3	6	1,500	500
205-32	16	156	260	40	6	8*	1,500	250
253-19	12	101	140	16	38	8*	1,250	33

* Estimated.

Table 49.--Summary of results and aquifer-test methods used to calculate transmissivity and storage-coefficient values for the principal artesian aquifer

Well number	Casing depth (ft)	Open hole (ft)	Aquifer thickness (ft)	Method	Transmissivity (ft^2/day)	Storage coefficient
007-06	79	101	160	Theis	42,000	0.02
087-33	88	72	325	Hantush-Jacob	43,000	.001
095-15	63	87	165	Hantush-Jacob	29,000	.0006
099-39	61	64	70	Theis	24,000	.0004
177-15	64	126	140	Hantush-Jacob	43,000	.01
201-05	130	95	165	Theis	21,000	.001
205-16	50	140	250	Hantush-Jacob	90,000	.003
205-22	77	131	260	Hantush-Jacob	75,000	.001
253-08	63	87	225	Theis	112,000	.001
253-12	118	107	180	Theis	41,000	.0002
253-26	58	67	75	Delayed yield	27,000	.003

Table 50.--Statistical comparison of dissolved constituents in water from the principal artesian aquifer (PCPA) and the Tallahatta aquifer (TLLT)[1]

[Constituents are in milligrams per liter except where noted.]

Constituent	Aquifer	Range	Mean	Standard deviation	Number of samples
Specific conductance (micromhos at 25°C)	PCPA	25-293	196	59	42
	TLLT	119-360	254	56	13
pH (units)	PCPA	5.9-8.1	NA	NA	39
	TLLT	6.8-7.8	NA	NA	11
Hardness (as $CACO_3$)	PCPA	4-185	106	33	42
	TLLT	20-160	108	44	13
Bicarbonate (HCO_3)	PCPA	5-167	120	39	39
	TLLT	20-210	156	43	11
Dissolved solids	PCPA	16-184	117	38	42
	TLLT	76-220	155	45	13
Silica (SiO_2)	PCPA	4.7-39	9	7	42
	TLLT	8.7-80	27	19	13
Iron (Fe)	PCPA	0.0-.130	.027	.049	12
	TLLT	.060-.240	.158	.087	5
Calcium (Ca)	PCPA	0.4-56	39	12	42
	TLLT	4.7-56	36	16	13
Magnesium (Mg)	PCPA	0.0-13	1	2	42
	TLLT	0.4-10	4	3	13
Sodium (Na)	PCPA	0.8-13	2	2	42
	TLLT	1.7-92	16	26	13
Potassium (K)	PCPA	0.1-3.8	.5	.8	42
	TLLT	0.1-4.3	1.8	1.3	13
Sulfate (SO_4)	PCPA	0.0-11	2	3	42
	TLLT	0.0-37	8	10	13
Chloride (Cl)	PCPA	1.0-7.4	3.1	1.4	42
	TLLT	1.8-23	5	6	13
Fluoride (F)	PCPA	0.0-2.3	.1	.4	42
	TLLT	0.0-1.1	.2	.3	13
Nitrate (NO_3)	PCPA	0.0-34	4	7	38
	TLLT	0.0-5.3	1.6	2.1	6

[1] Some of the wells may be open to parts of the Tertiary section immediately above or below the Tallahatta aquifer.

Georgia Geologic Survey

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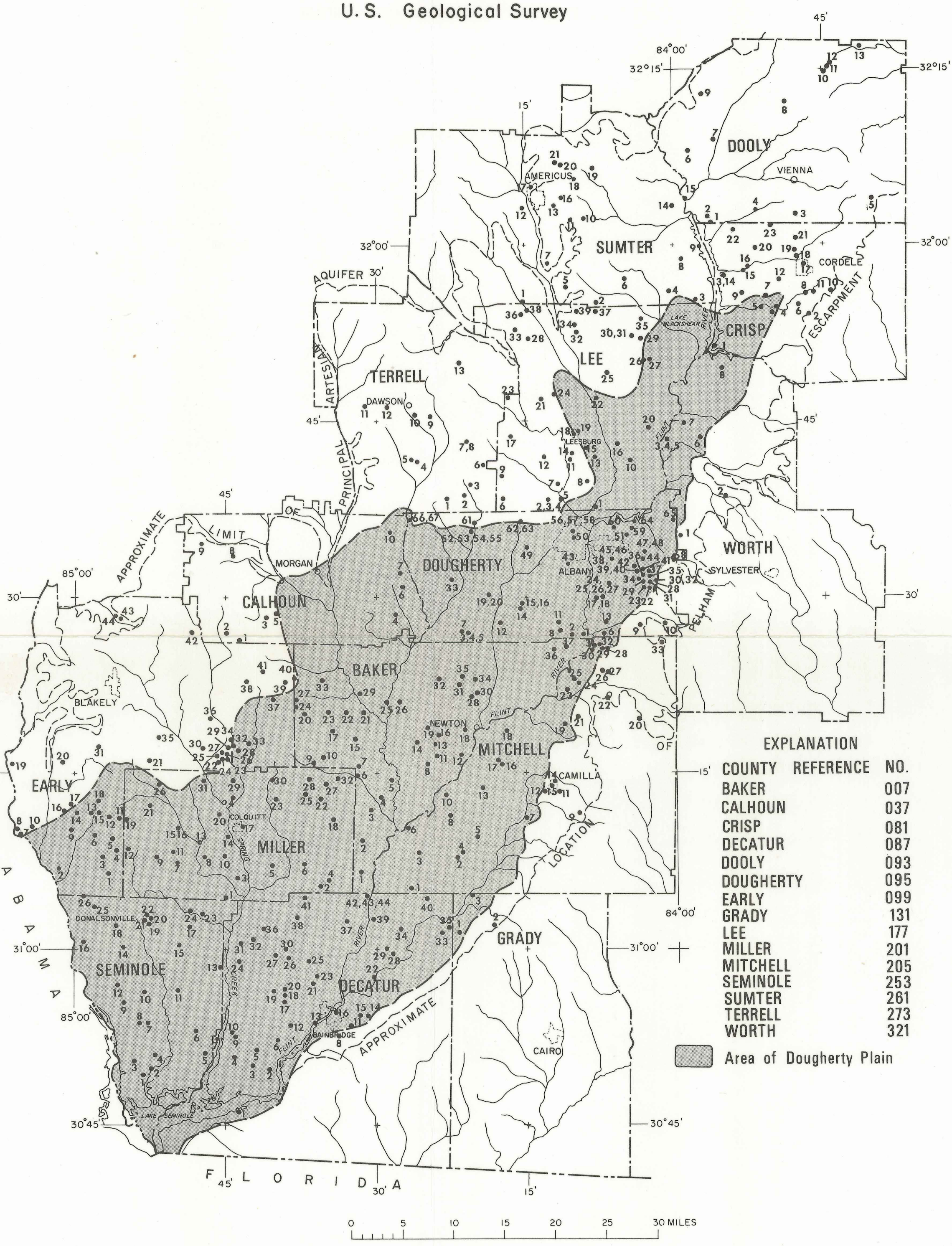
Information Circular 58



EXPLANATION

COUNTY	REFERENCE NO.
BAKER	007
CALHOUN	037
CRISP	081
DECATUR	087
DOOLY	093
DOUGHERTY	095
EARLY	099
GRADY	131
LEE	177
MILLER	201
MITCHELL	205
SEMINOLE	253
SUMTER	261
TERRELL	273
WORTH	321

Area of Dougherty Plain

PLATE I. Locations of wells that have records presented in table 1, Dougherty Plain and adjacent areas, Southwest Georgia.

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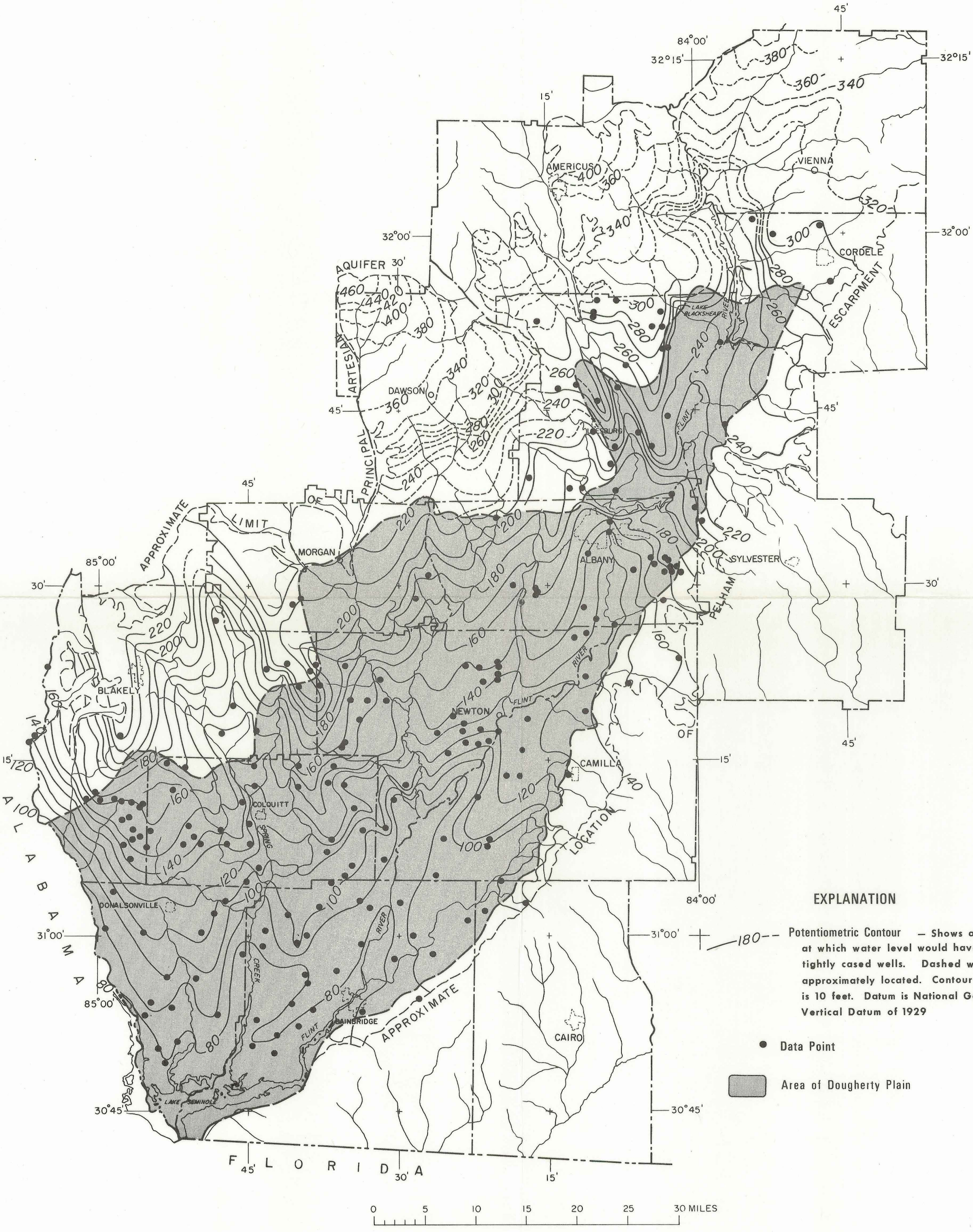

EXPLANATION

180 — Potentiometric Contour — Shows altitu at which water level would have st tightly cased wells. Dashed where approximately located. Contour int is 10 feet. Datum is National Geod Vertical Datum of 1929

Data Point

Area of Dougherty Plain

PLATE 2. Potentiometric surface of the principal artesian aquifer, November 1979.

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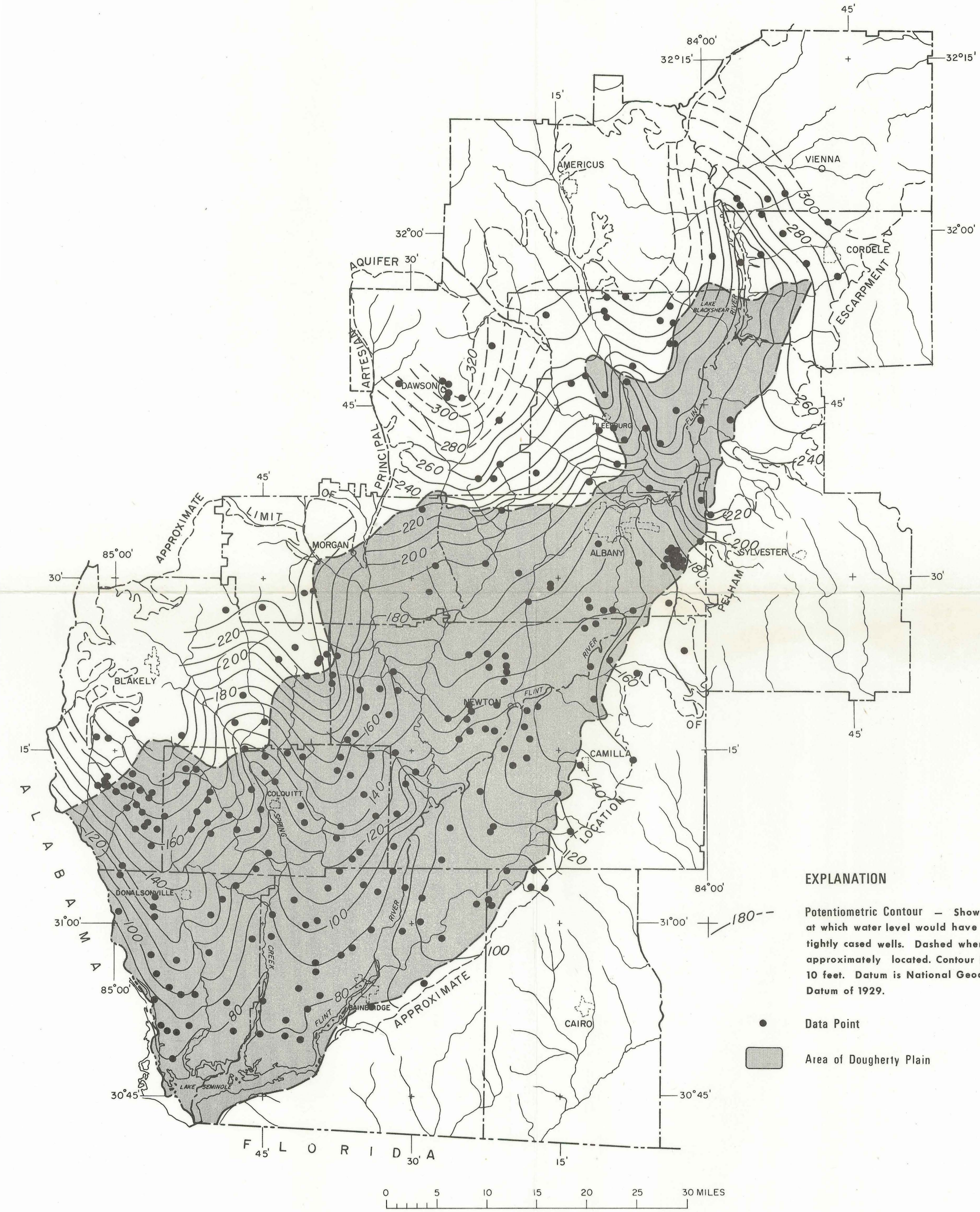

EXPLANATION

Potentiometric Contour — Shows e
at which water level would have st
tightly cased wells. Dashed where
approximately located. Contour int
10 feet. Datum is National Geodet
Datum of 1929.

Data Point

Area of Dougherty Plain

PLATE 3. Potentiometric surface of the principal artesian aquifer, May 1980.

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