BASIC-DATA REPORT NO. 8

SELECTED HYDROLOGIC DATA
UPPER SEVIER RIVER BASIN, UTAH

By

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U.S. Geological Survey

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Introduction

This report is intended to serve two purposes: (1) to make available to the public basic ground-water data useful in planning and studying development of water resources, and (2) to supplement an interpretive report that will be published later.

Records were collected during 1961-63 by the U.S. Geological Survey in cooperation with the Utah State Engineer as a part of the investigation of ground-water conditions in the upper Sevier River basin, in parts of Garfield, Iron, Kane, Piute, and Sevier Counties, Utah. The interpretive material will be published in a companion report by Carl H. Carpenter, Gerald B. Robinson, Jr., and Louis J. Bjorklund.

This report is most useful in predicting conditions likely to be found in areas that are being considered as well sites. The person considering the new well can spot the proposed site on plate 1 and examine the records of nearby wells and springs as shown in the tables. From table 1 he can find information on wells, including depth, diameter, water level, yield, drawdown, use of water, temperature of water, and depth of perforations. Table 2 gives information on springs such as yield, use of water, temperature, and improvements. From tables 1 and 2 he can note the type of material that yields water in the vicinity. Table 3 shows the historic fluctuations and trends of water levels. Table 4 shows the type of material penetrated by wells. From table 5 he can note the chemical quality of water from wells and springs, and from table 6, the chemical quality of surface water. If the reader decides from his examination that conditions are favorable, he can place an application to drill a well with the State Engineer. If the State Engineer believes unappropriated water is available, the application may be approved after minimum statutory requirements have been satisfied.

The report is also useful when planning large-scale developments of water supply. This and other uses of the report will be helped by use of the interpretive report upon its release.

The well numbers used in this report indicate the well location by land subdivision according to a numbering system that was devised cooperatively by the Utah State Engineer and G. H. Taylor of the Geological Survey about 1935. The system is illustrated in figure 1. The complete well number comprises letters and numbers that designate consecutively the quadrant and township (shown together in parentheses by a capital letter designating the quadrant in relation to the base point of the Salt Lake Base and Meridian, and numbers designating the township and range); the number of the section; the quarter section (designated by a letter); the quarter of the quarter section; the quarter of the quarter-quarter section; and, finally, the particular well within the 10-acre tract (designated by a number). By this system the letters A, B, C, and D designate, respectively, the northeast, northwest, southwest, and southeast quadrants of the standard base and meridian system of the Bureau of Land Management, and the letters a, b, c, and d designate,

respectively, the northeast, northwest, southwest, and southeast quarters of the section, of the quarter section, and of the quarter-quarter section. Thus, the number (B-2-2)12dcd-2 designates well 2 in the SE¼SW¼SE¼ sec. 12, T. 2 N., R. 2 W., the letter B showing that the township is north of the Salt Lake base line and the range is west of the Salt Lake meridian; and the number (D-3-2)34bca-1 designates well 1 in the NE¼SW¼NW¼ sec. 34, T. 3 S., R. 2 E. Springs and sampling sites are also numbered using this system, but the designation number within a 10-acre tract is omitted.

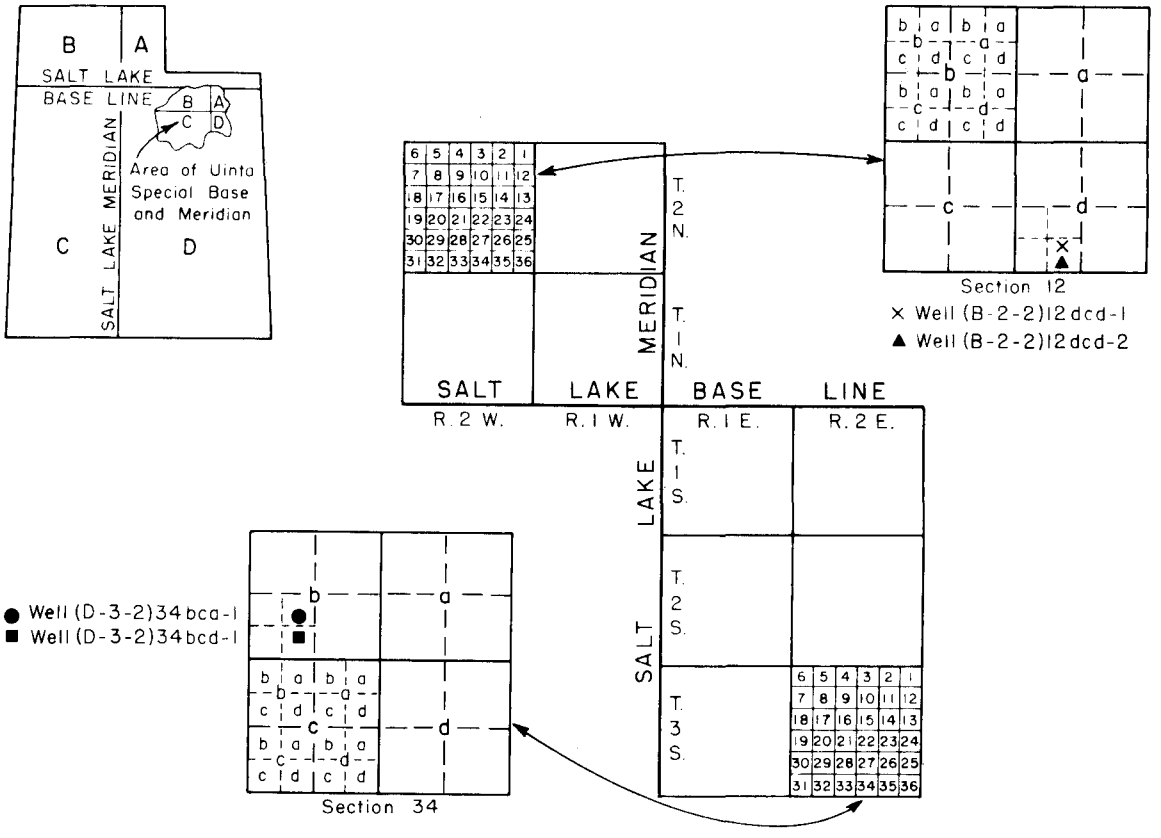


Figure 1. — Well-numbering system used in Utah.

Table 1.--Records of selected wells and test holes in the upper Sevier River basin

Well number: See text for description of numbering system.
Type of well: Dr, drilled; Du, dug, J, jetted.
Depth of well: Measured depths given in feet and tenths; reported depths given in feet.
Character of material: C, clay, Cg, conglomerate; G, gravel; Ls, limestone; S, sand; Sh, shale; Ss, sandstone; V, volcanic rock.
Water level: Measured distances given in tenths of feet; reported distances given in feet.
Method of lift: C, centrifugal pump; Cy, cylinder pump; F, flowing well; J, jet pump; N, none; T, turbine pump; Ts, submersible turbine pump.
Yield (gpm, gallons per minute): E, estimated; M, measured; R, reported.
Drawdown: Amount water level or artesian pressure is lowered during discharge of well.
Use of water: D, domestic; I, irrigation; Ind, industrial; N, none; O, observation; P, public supply; S, stock.
Remarks and other data available: C, chemical analysis in table 5; L, log in table 4; perf., casing perforated; TH, test hole; W, water-level measurements in table 3.

Well number	Owner or user	Year drilled	Type of well	Depth of well (feet)	Diameter of well (inches)	Principal aquifer: Depth to top (feet)	Principal aquifer: Thickness (feet)	Principal aquifer: Character of material	Altitude of land-surface datum (feet)	Water level: Above (+) or below (-) land-surface datum (feet)	Water level: Date of measurement	Method of lift	Yield (gpm)	Drawdown (feet)	Date of measurement	Use of water	Temperature (°F)	Remarks and other data available
								Panguitch Valley										
(C-32-5)																		
26aca-1	Dan Perkins	1905	Du	20	54	-	-	G	6,360	-13.1	8- 1-51	N	-	-	-	O	-	W.
26aca-2	do	1947	Dr	88	6	18	27	S	6,360	-11.0	6-14-47	J	20R	11	6-47	D,I, S	57	C, L.
						72	16	S,G										
35bab-1	U.S. Geol. Survey	1962	Dr	456.0	6	5	57	S,G	6,370	+3.0	7-23-62	F	6M	-	7-62	O	59	TH 1. 1-inch casing; perf. 9-18 ft. C,L, W.
						75	8	G										
						173	9	G										
(C-33-5)																		
3bda-1	E. V. Goff	1942	Dr	66	4	60	6	G	6,409	-15.1	10-23-61	N	5R	1	6-42	N	60	L.
4ddd-1	R. J. Barrett	1950	Dr	83	6	73	10	S,G	6,470	-60.0	7-12-50	J	20R	5	7-50	D,I, S	-	C, L.
9adb-1	Clifford LeFevre	1930	Du	8.0	36	-	-	S,G	6,440	-.8	8- 1-51	N	-	-	-	O,S	-	W.
10cdd-1	Horace LeFevre	1952	Dr	111	6	55	38	S	6,455	-28.5	10-23-61	N	25R	41	4-52	O	-	L, W.
						93	13	G										
13bdd-1	U.S. Geol. Survey	1962	Dr	833.0	6	125	347	S,G	6,660	-	-	N	-	-	-	N	-	TH 16. L.
						477	90	S,G										
						579	254	S,G										
14cbd-1	do	1962	Dr	637.0	6	23	35	S,G	6,555	-27.2	6-30-62	N	-	-	-	N	-	TH 4. L.
						61	16	S,G										
						79	59	S,G										
15cab-1	Joel Webster	1947	Dr	458	6,4	25	65	S	6,470	-15.0	7-47	J	-	-	-	D,S	55	L.
						90	8	G										
16add-1	U.S. Geol. Survey	1962	Dr	510.0	6	3	90	S,G	6,442	-5.4	6-29-62	N	-	-	-	N	-	TH 3. L.
						450	11	S,G										
16bca-1	do	1962	Dr	545.0	6	52	51	Cg	6,505	-56.4	7-18-62	N	-	-	-	N	-	TH 2. L.
						140	41	Cg										
28acb-2	James LeFevre	1936	Dr	44	8	36	8	G	6,480	-11.0	10- 4-36	J	75R	9	10-36	D,I, S	-	L.
28bcd-1	L. V. Henrie	1936	Dr	190	6,3	183	7	G	6,508	-47.5	3-20-56	J	40R	6	8-36	D,I, O,S	55	Perf. 183-190 ft. C,L,W.
29bdd-1	F. H. Henrie	1946	Dr	114	5	65	15	G	6,570	-60.0	7-20-46	Cy	20R	2	7-46	D,I, S	52	L.
						102	12	G										
(C-34-5)																		
2cbc-1	Archie Alexander	1947	Dr	171	6	75	35	G	6,617	-89.4	10-16-61	J	12R	15	8-47	D,I, O,S	50	C,L,W.
						151	15	S										
						166	5	G										
2cdc-1	U.S. Geol. Survey	1962	Dr	755.0	6	81	15	S,G	6,640	-85.0	6-15-62	N	-	-	-	N	-	TH 7. L.
						224	16	S,G										
3ddb-1	W. B. Proctor	1947	Dr	169	6	50	112	S,G	6,595	-65.0	8- 7-47	J	15R	5	8-47	D,S	50	L.
						162	7	G										
4abd-1	J. E. Heywood	1931	Dr	72	4	-	-	S,G	6,510	-13.2	10-16-61	N	-	-	-	N	53	
4ddd-1	John Yardley	-	Du	21.0	36	-	-	S,G	6,543	-10.2	8- 1-51	J	-	-	-	O,S	56	W.
5ddc-2	Kenneth Lynn	1947	Dr	122	6	31	6	S	6,545	-23	6-10-47	J	25R	8	6-47	D,I, S	52	L.
						83	3	S										
						94	21	S										
						115	7	G										
7aaa-1	U.S. Geol. Survey	1962	Dr	390.0	6	6	13	S,G	6,620	-14.6	6-15-62	N	-	-	-	N	-	TH 5. L.
						38	2	G										
						44	15	S,G										
8abd-1	E. J. Allen	1900	Du, Dr	78.0	24,5	-	-	S,G	6,550	-26.9	10-16-61	J	-	-	-	D,S	50	Well dug 40 ft, drilled 38 ft.
8adb-1	D. W. Woodard	1935	Dr	93	5	20	70	S	6,540	-17.3	9- 9-35	J	-	-	-	D,I	56	Perf. 77-93 ft.
8adb-2	do	1935	Dr	166	4	84	12	S,G	6,540	-18.6	3-20-56	N	50R	10	9-36	O	56	L,W.
						138	8	S,G										
						153	13	G										
8dcd-1	Sims Duggins	1950	Dr	55	4	7	39	S,G	6,533	-8.0	11- 3-50	C	15R	2	11-50	S	55	L.
9bab-1	U.S. Geol. Survey	1962	Dr	713.0	6	14	64	S,G	6,505	-4.0	6-15-62	N	-	-	-	N	-	TH 6. L.
						83	32	S,G										
9ddd-1	J. V. Proctor	1925	Du	45	36	-	-	S,G	6,580	-35.1	10- 9-61	N	-	-	-	N	47	
10bdc-1	J. F. Yardley	-	Du	42.0	36	-	-	S,G	6,586	-37.8	10- 9-61	N	-	-	-	N	47	
16adc-1	D. V. Worthen	1961	Dr	59.0	4	-	-	S,G	6,584	-43.5	10-10-61	J	-	-	-	S	-	
16dca-1	LaMar Worthen	1947	Dr	197	6	37	48	S	6,582	-50.0	7- 1-47	J	15R	15	7-47	D,I, S	52	L.
						192	5	G										
16ddc-1	W. D. Miller	1955	Dr	80	4	-	-	S,G	6,588	-46.8	10-10-61	J	-	-	-	S	54	
17dbd-1	J. H. Clark	1895	Du	22	36	-	-	S,G	6,540	-6.1	10- 3-61	N	-	-	-	N	48	
20dbd-1	W. H. Hughes	1895	Du	22.0	48	-	-	S,G	6,570	-18.6	8- 1-51	N	-	-	-	O	57	W.
21adc-1	James Excell	-	Du	30.0	24	-	-	S,G	6,573	-24.0	10- 3-61	J	-	-	-	D,O, S	-	W.
(C-35-5)																		
2bcc-1	Frank Orton	1959	Dr	175	6	-	-	S,G	6,650	-10.7	8-14-61	J	-	-	-	O,S	52	W.

Table 1.--Records of selected wells and test holes in the upper Sevier River basin - Continued

Well number	Owner or user	Year drilled	Type of well	Depth of well (feet)	Diameter of well (inches)	Principal aquifer: Depth to top (feet)	Principal aquifer: Thickness (feet)	Principal aquifer: Character of material	Altitude of land-surface datum (feet)	Water level: Above (+) or below (-) land-surface datum (feet)	Water level: Date of measurement	Method of lift	Yield (gpm)	Drawdown (feet)	Date of measurement	Use of water	Temperature (°F)	Remarks and other data available
Panguitch Valley - Continued																		
(C-35-5)																		
24ccb-1	V. J. Myers	1953	Dr	350	6,5,4	201	5	S	6,740	-30.0	5-25-53	N	20R	-	5-53	N	-	Perf. 201-206, 258-264, 280-287 ft. C,L.
						258	6	S,G										
						280	16	S,G										
						345	5	G										
24dbd-1	E. E. Brewer	1959	Dr	110	5	-	-	S	6,780	-22.0	8-21-61	J	1.7R	-	8-61	D	53	
35ddb-2	Lindau Foremaster	-	Du	27.0	36	-	-	S,G	6,785	-24.0	7-31-51	N	-	-	-	O	50	One of 2 wells. W.
(C-36-4½)																		
7ccb-1	Calvin Wilson	1949	Dr	-	6	-	-	S,G	7,900	-	-	Cy	5M	-	8-61	D,S	60	
(C-36-5)																		
28bdc-1	U.S. Geol. Survey	1962	Dr	577.0	6	21	11	S,G	6,870	-5.4	7-31-62	N	-	-	-	O	-	TH 8. 1-inch casing; perf. 18-117 ft. L,W.
						95	35	S,G										
29dcd-1	Hatch Farmstead Water Association	1948	Dr	216	10	105	35	G	6,940	-46.5	9-25-61	T	40R	52	9-48	O,P	55	Perf. at 105 ft. C,L,W.
													65R	65	4-51			
Circle Valley																		
(C-30-3)																		
15bba-1	C. L. Jessen	1920	Du	30.0	28	-	-	S,G	6,006	-15.7	9-11-56	N	-	-	-	O	-	W.
16bab-1[1/]	U.S. Geol. Survey	1960	Dr	374.0	6	4	17	S,G	5,997	-2.0	5- 60	N	-	-	-	N	-	L.
						62	14	G										
16bbb-1	P. J. Jensen	1948	Dr	407	6	400	7	G	6,000	-15.5	11-28-56	C	50R	10	5-48	D,O	55	C,L,W.
19daa-1	Weldon Simpkins	1896	Dr	98	2	-	-	S,G	6,030	+4.9	11-28-56	F	2M	-	11-56	S	53	
19dcc-1	do	1900	Dr	50	1.5	-	-	S,G	6,040	-11.6	11-28-56	C	-	-	-	S	-	
20bab-1	C. A. Whittaker	-	Du	13.5	12	-	-	S	6,015	-1.6	12- 4-61	C	-	-	-	O,S	-	W.
29bad-1	S. B. Smith	1900	Dr	163.2	2	-	-	S,G	6,040	+2.5	11-28-56	F	2M	-	11-56	S	56	
29bbb-1	Earl Smith	1956	Du	22	4	14	8	G	6,040	-6.0	11-28-56	C	-	-	-	S	-	L.
30baa-1	Harold Gottfredson	1948	Dr	193	5	167	26	G	6,038	-10.4	11-28-56	C	50R	12	2-48	O,S	58	L,W.
30caa-1[2/]	U.S. Geol. Survey	1960	Dr	563.0	6	128	125	G	6,055	-20.9	6- 4-60	N	-	-	-	O	-	4-inch casing; perf. 200-340, 380-400 ft. L,W.
						387	11	G										
32bbb-1	do	1962	Dr	680.0	6	125	114	S,G	6,100	-67.5	10- 1-62	N	-	-	-	O	-	TH 20. 1-inch casing; perf. 27-414 ft. L,W.
						247	145	S,G										
						398	152	S,G										
(C-30-4)																		
14abd-1	Harold Pearson	-	Dr	29.0	6	5	24	S,G	6,040	-7.4	1-16-62	C	12M	7	9-62	O,S	50	L,W.
14dac-1	T. Thomas	1935	Dr	-	4	-	-	S,G	6,030	-	-	F	1E	-	1-62	S	59	C.
25aad-1	Piute County Potato Growers Association	1948	Dr	54	8	30	24	G	6,048	-15.0	1- 48	J	75R	10	1-48	Ind	54	L.
25bcc-1	Circleville-Loss Creek Irrigation Company	1934	Dr	133	12	40	10	S	6,065	-23.0	10-25-60	T	1,475M	28	9-62	I,O	54	Perf. 38-127 ft. C,L,W.
						78	55	S,G										
26dcb-1	Town of Circleville	1956	Dr	325	10	40	53	S,G	6,080	-31.5	11-27-56	T	300M	36	10-56	O,P	59	Perf. 250-310 ft. C,L,W.
						104	20	G										
						223	4	G										
						240	70	S,G										
						321	4	S,G										
34ddc-2	Cannon Livestock Company	1934	Dr	80	5	75	5	S	6,110	-68.5	12- 4-61	J	7.5R	-	11-34	D,O, S	-	L,W.
35dab-1	U.S. Geol. Survey	1962	Dr	510.0	6	13	58	S,G	6,086	-47.3	10- 1-62	N	-	-	-	O	-	TH 21. 1-inch casing; perf. 18-207 ft. L,W.
						75	90	S,G										
East Fork Valley																		
(C-30-2)																		
28cab-1	Otter Creek Reservoir Company	1935	Dr	42	4	-	-	S,G	6,377	-36.1	9-20-61	J	-	-	-	D,O, S	52	W.
34bcc-1	Van Wyley	-	Du	20.0	24	-	-	S,G	6,370	-12.6	9-24-57	N	-	-	-	O	-	W.
(C-31-2)																		
3cbc-1	U.S. Geol. Survey	1962	Dr	210.0	6	3	55	S,G	6,360	-.1	8-29-62	N	-	-	-	O	54	TH 13. 1-inch casing; perf. 9-45 ft. L,W.
14ccc-1	Phil Allen	1948	Dr	102	6	33	5	S,G	6,460	-26.0	1- 5-48	J	15R	19	1-48	D,S	55	L.
						85	17	Cg										
23bcd-1	Antimony Lions Club	1952	Dr	90	6	77	13	Cg	6,510	-55.3	9-24-57	J	25R	15	4-52	D,I, O	58	C,L,W.
23cca-1	Burns Black	1934	Dr	75	6	-	-	G	6,480	-11.2	9-20-61	C	-	-	-	D,S	51	
23ccd-1	Herman Black	1942	Dr	59.5	4	59	.5	Cg	6,496	-25.6	9-20-61	J	5R	0	8-42	D,O, S	51	C,L,W.
23cda-1	C. A. Riddle	1942	Dr	98	4	97	1	Cg	6,530	-42.0	11-25-42	J	10R	0	11-42	D,S	51	L.
24cbc-1	Erwin Gleave	1952	Dr	114	6	85	18	Cg	-	-75.0	6- 4-52	Ts	23R	10	6-52	D,I, S	52	L.
						103	11	V										
24cdb-1	Dean Crabb	1957	Dr	153	4	105	48	Cg	-	-88.4	9-20-61	Ts	4R	1	4-57	D,I, S	53	L.
24dac-1	Augustus Twitchell	1952	Dr	180	6	160	20	V	-	-155.0	5-24-52	Ts	15R	1	5-52	D,I, S	50	L.

Table 1.--Records of selected wells and test holes in the upper Sevier River basin - Continued

Well number	Owner or user	Year drilled	Type of well	Depth of well (feet)	Diameter of well (inches)	Principal aquifer: Depth to top (feet)	Principal aquifer: Thickness (feet)	Principal aquifer: Character of material	Altitude of land-surface datum (feet)	Water level: Above (+) or below (-) land-surface datum (feet)	Water level: Date of measurement	Method of lift	Yield (gpm)	Drawdown (feet)	Date of measurement	Use of water	Temperature (°F)	Remarks and other data available
East Fork Valley - Continued																		
(C-31-2)																		
25aab-1	W. R. Young	1942	Dr	125	4.5	124	1	Cg	-	-98.0	9- 3-42	Ts	5R	2	9-42	D,S	51	Perf. 110-125 ft. L.
25aba-1	Erwin Gleave	1942	Dr	134	4	38	96	Cg	6,600	-106.6	9-27-61	Ts	25R	0	8-42	D,I, O,S	51	Perf. 104-134 ft. L,W.
26cdd-1	Chester Allen	1942	Dr	54	4	41	13	Ss	6,500	-18.0	9- 8-42	C	5R	2	9-42	D,S	54	L.
35bda-1	Charles Wiley	1942	Dr	63	4	62	1	Cg	6,510	-34.0	8- 7-42	Cy	5R	0	8-42	D,I, S	51	L.
(C-32-2)																		
2dda-1	K. E. Weggener	1954	Dr	66	6	31 63	6 3	S,G G	6,590	-14.0	4-28-54	J	20R	4	4-54	D,I, S	56	L.
(C-33-2)																		
22aab-1	U.S. Geol. Survey	1962	Dr	290.0	6	12	173	S,G	7,225	-10.6	8-29-62	N	-	-	-	O	-	TH 12. 1-inch casing; perf. 18-117 ft. L, W.
33ccc-1	do	1962	Dr	550.0	6	28	37	S,G	7,293	-56.0	8-29-62	N	-	-	-	N	50	TH 9. L.
33ddd-1	do	1962	Dr	536.0	6	83	57	S,G	7,300	-95.9	8-29-62	N	-	-	-	N	-	TH 17. L.
(C-34-2)																		
22dab-1	State of Utah	1934	Dr	339	6	278	61	Ss	7,620	-205.8	3-19-56	N	30R	-	12-34	O	-	L,W.
29ccd-1	U.S. Geol. Survey	1962	Dr	480.0	6	125	94	S,G	7,430	-150.0	8-29-62	N	-	-	-	N	-	TH 11. L.
30ccc-1	do	1962	Dr	520.0	6	45	30	S,G	7,405	-82.4	8- 6-62	N	-	-	-	O	-	TH 10. 1-inch casing; perf. 18-117 ft. L,W.
(C-35-2)																		
22dbb-1	The California Company	-	Dr	330+	4	-	-	Ss	7,500	-29.9	8- 6-62	N	-	-	-	N	52	
(C-35-4)																		
34dca-1	M. U. Rich	1933	Du	14.0	48	-	-	S,G	-	-12.8	8-21-61	C	-	-	-	D,S	-	
34dcd-1	do	1952	Dr	170	6	10	160	Ss	-	-14.0	8-21-61	J	.3R	3	-	D,S	50	L.
(C-36-3)																		
6dba-1	Civil Aeronautics Administration	1945	Dr	83	6	-	-	S,G	7,580	-46.2	3-19-56	Cy	-	-	-	D,O	53	C,W.
7aac-1	Jerry Bartlett	1934	Du	15.0	72	-	-	S,G	7,600	-8.0	3-19-56	C	-	-	-	D,O, S	50	C,W.
7aac-2	do	1962	Dr	260	6	-	-	S,G	7,600	-6.9	11- 5-62	Ts	8.5M	43	10-62	D,S	48	Perf. 10-200 ft.
7abd-1	do	1951	Dr	208	6	75	30	Ss	7,600	-27.0	6-19-51	N	2.8R	53	6-51	N	-	L.
7bbc-1	Civil Aeronautics Administration	1952	Dr	230	6,5	91	139	Sh,Ss	7,606	-48.0	9-11-61	T	6R	43	7-52	P	48	Perf. 45-230 ft. C,L.
7bbd-1	do	1946	Dr	131	6	80 100	5 2	Sh,Ss Ss	7,604	-49.7	9-11-61	T	10R	15	10-46	P	48	Perf. 50-130 ft. L.
18acc-1	C. H. Syrett	1936	Dr	60	-	3	57	C	7,640	-1.0	8-28-61	N	10R	0	8-36	N	-	L.
18bdc-1	do	1930	Du, Dr	45	60,6	7	38	S,G	7,650	-2.6	8-28-61	C, Cy	-	-	-	D,O, S	50	One of 2 wells. Well dug 7 ft, drilled 38 ft. W.
18bdd-1	do	1936	Dr	210	48,12	-	-	C	7,650	-73.0	8-28-61	N	1R	175	7-36	N	-	L.
18bdd-2	do	1960	Dr	100	12	5	10	G	7,650	-1.8	8-28-61	N	10R	0	10-60	N	-	Gravel packed 95-100 ft. Perf. 5-100 ft. L.
18caa-1	do	1935	Dr	150	10,8	-	-	Ls	7,660	-12.8	8-28-61	N	-	-	-	N	-	
(C-36-4)																		
2dca-1	Robert Ott	1950	Dr	310	6	60	6	G	7,620	-41.8	9- 4-61	N	40R	14	7-50	O	49	L,W.
10bbd-1	Layton Ott	1956	Dr	136	6	70 116 130	6 6 6	Ss Ss Ss	7,650	-59.8	12-20-57	N	10R	-	9-56	O	-	Perf. 70-76, 116-122, 130-136 ft. L,W.
15adb-1	U.S. Forest Service	1957	Dr	207	6	0 35	20 15	C,S,G C,S	-	-15.0	8- 3-57	Cy	1.5R	-	8-57	D,S	53	Perf. 35-122 ft. L.
34bda-1	Utah Parks Company	1955	Dr	80	16,12	12	12	G	7,772	-	-	T	180R	-	7-55	P	-	Perf. 12-24 ft. C,L.
34bda-2	do	1956	Dr	30+	12	6 18	4 8	S,G S,G	7,768	-4.0	9- 4-56	T	90R	17	9-56	P	-	Perf. 6-10, 18-26 ft. L.
34bda-3	do	-	Dr	34.0	16,12	12	12	G	7,773	-6.5	3- 2-57	N	-	-	-	O	-	W.
36acc-1	U.S. National Park Service	1948	Du, Dr	80	48,12, 8	40	40	Ls	7,900	-30.0	9-11-61	J	25R 30R	4.7 4	3-50 1957	P	41	Well dug 30 ft, drilled 50 ft. L.
(C-37-4)																		
11ddd-1	do	1960	Dr	2,000	16,14, 12,10	313 452 860 1,268 1,873	35 26 30 14 47	Ls Cg S,Sh Sh S	8,050	-652.0	8- 5-60	Ts	200R	134	9-60	P	55	Perf. 313-348, 452-478, 860-890, 1,268-1,282, 1,873-1,920, 1,962-1,970 ft. C.

Table 1.--Records of selected wells and test holes in the upper Sevier River basin - Continued

Well number	Owner or user	Year drilled	Type of well	Depth of well (feet)	Diameter of well (inches)	Principal aquifer: Depth to top (feet)	Principal aquifer: Thickness (feet)	Principal aquifer: Character of material	Altitude of land-surface datum (feet)	Water level: Above (+) or below (-) land-surface datum (feet)	Water level: Date of measurement	Method of lift	Yield (gpm)	Drawdown (feet)	Date of measurement	Use of water	Temperature (°F)	Remarks and other data available
								Grass Valley										
(C-26-1)																		
12abd-1	Ellison Hansen	-	J	110.0	2	-	-	S,G	-	-13.4	9-13-61	N	-	-	-	O	-	W.
12dbc-1	Elmer Christensen	1950	J	11.0	2	-	-	S,G	-	+3.1	9-13-61	F	2M	-	9-61	I,O, S	47	W.
12dcb-1	do	1950	J	73.0	2	-	-	S,G	-	+5.0	9-13-61	F	2.6M	-	9-61	S	46	
13baa-1	M. L. Burr	-	J	150	2	-	-	S,G	6,899	+3.1	9-13-61	F	1M	-	9-61	S	47	
23aab-1	Frands Peterson	-	J	-	2	-	-	S,G	6,883	+2.5	10-18-61	F	.8M	-	10-61	S	54	
23add-1	A. E. DeLange	1900	J	116.0	2	-	-	S,G	6,853	+30.7	10-18-61	F	.5E	-	10-61	I	57	
23dab-1	do	-	J	100.0	2	-	-	S,G	6,853	+31.6	10-18-61	F	1E	-	10-61	S	54	
23ddb-1	do	1898	J	200	2	-	-	S,G	6,870	+12.4	3-11-58	F	3M	-	1-61	O,S	53	C,W.
24acb-1	Oliver Anderson	1934	J	140	2	-	-	S,G	6,877	+3.5	7-12-62	F	1M	-	7-62	S	51	
24bba-1	do	1956	Dr	221	4	15	41	S	-	+19.9	7-12-62	F	120M	-	7-62	I,S	52	L.
						220	1	G										
24bcc-1	A. E. DeLange	1900	J	200	2	-	-	S,G	6,855	+15.8	10-18-61	F	25M	-	10-61	I	51	
24cbb-1	do	1900	J	29.0	2	-	-	S,G	6,852	+7.2	10-18-61	F	.5E	-	10-61	I,S	54	
24ccc-1	E. R. Jensen	1935	J	200	2	-	-	S,G	6,846	+18.0	7-12-62	F	30M	-	7-62	I,S	49	
25acc-1	A. R. Brown	1905	J	127	2	-	-	S,G	6,863	+17.1	3-11-58	F	2M	-	3-58	D,O, S	50	W.
25bba-1	E. R. Jensen	1910	J	100	2	-	-	S,G	6,843	+11.2	7-12-62	F	6M	-	7-62	S	49	
25bdb-1	W. B. Brown	1918	J	125	2	-	-	S,G	6,858	+9.9	7-13-62	F	.5M	-	7-62	S	52	
26aab-1	E. L. Christensen	1905	J	200	2	-	-	S,G	6,852	+9.0	7-13-62	F	1M	-	7-62	I	50	One of 4 wells.
26dab-1	J. M. Bagley	1935	J	150	2	-	-	S,G	6,876	+3.0	8-14-62	F	1M	-	8-62	S	55	
34ddb-1	Rufus Hatch	1918	J	230	2	-	-	S,G	6,871	+.7	8-15-62	F	.1M	-	8-62	I,S	-	
34ddd-1	Grant Brown	1910	J	150	3	-	-	S,G	6,866	+6.1	8-15-62	F	10M	-	8-62	I,S	58	
35acd-1	Orson Bagley	1903	J	145	2	-	-	S,G	6,856	+6.7	8-14-62	F	.5M	-	8-62	D,S	53	
35ccd-1	R. M. Torgersen	1937	J	120	2	-	-	S,G	-	-	-	C,F	3M	-	8-62	D,I, S	54	
35cdd-1	Legrande Anderson	1911	J	-	2	-	-	S,G	6,847	+4.7	8-15-62	F	1E	-	8-62	S	53	
35dba-1	R. L. Anderson	1905	J	60	2	-	-	S,G	6,846	+15.4	8-14-62	F	3M	-	8-62	D,S	53	
35dcb-2	Charles Helquist	1945	Dr	225	10	140	8	G	6,835	+17.6	8-31-62	F	10M	-	8-62	I,O	54	One of 2 wells. Perf. below 140 ft. C,L,W.
						187	6	G										
						218	7	G										
36bbb-1	Jerry Payne	1910	J	140	2	-	-	S,G	6,840	+9.3	8-14-62	F	3M	-	8-62	I,S	51	
36cbb-1	Koosharem Grazing and Pasture Company	1923	J	200	2	-	-	S,G	6,830	+17.8	8-14-62	F	4M	-	8-62	I,S	50	
(C-27-1)																		
1bab-1	Joseph Rickenbach	1920	J	250	2	-	-	S,G	6,811	+6.5	8-22-62	F	53M	-	8-62	I	55	One of 16 wells.
1bcb-1	do	1920	J	250	2	-	-	S,G	6,803	+20.9	8-22-62	F	6M	-	8-62	I	50	
1cbb-1	do	1920	J	250	2	-	-	S,G	6,810	+8.4	12-28-61	F	5E	-	12-61	I,O, S	52	One of 3 wells. C,W.
1cbc-1	do	1945	Dr	399	8	145	5	S	6,809	+17.5	8-22-62	F	80M	-	8-62	I	52	Perf. below 145 ft. L.
						163	6	S										
						270	36	S										
						320	20	S										
						350	10	G										
						364	16	G										
						387	12	G										
2abb-3	R. D. and Legrande Anderson	1945	Dr	283	10	101	8	G	6,830	+7.2	8-15-62	F	140M	-	8-62	I	54	One of 3 wells. Perf. below 100 ft. L.
						130	9	G										
						177	13	G										
						240	12	S,G										
						276	7	G										
2bad-4	V. A. Hatch	1936	Dr	320	6	302	18	S	6,835	+15.3	9- 5-62	F	2.2M	-	9-62	I	57	One of 4 wells. L.
2bbb-1	Pauline Bagley	1910	J	130	2	-	-	S,G	6,841	+10.8	9- 5-62	F	4M	-	9-62	I,S	54	
2bca-1	E. C. Bagley	1904	J	125	2	-	-	S,G	6,827	+8.8	5- 8-58	F	12M	-	4-61	O,S	53	W.
2bdb-1	do	1901	J	125	2	-	-	S,G	6,825	+7.1	7- 3-61	F	1M	-	8-62	I,O, S	53	One of 2 wells. W.
2caa-2	U.S. Geol. Survey	1962	Dr	506.0	6	70	21	S	6,816	-	-	F	35E	-	9-62	N	-	TH 14. L.
						265	5	S										
2cab-4	Rulon Torgersen	1945	Dr	435	6	351	6	G	6,825	+6.4	9- 5-62	F	20M	-	9-62	I	58	One of 3 wells. Perf. below 266 ft. L.
						380	7	G										
3aaa-1	Clifton Schougaard	1915	J	150	2	-	-	S,G	6,852	+9.8	8-15-62	F	5.5M	-	8-62	S	57	
3bca-1	Estella Anderson	1910	J	75	2	-	-	S,G	6,867	+3.7	9-11-62	F	2M	-	9-62	S	56	One of 3 wells.
3ddb-1	Lamont Payne	1941	J	102	2	51	1	S	6,810	+1.8	9-11-62	F	1M	-	9-62	D,S	49	L.
						99	3	S										
10aaa-1	Carl Pearson	-	J	265	2	55	6	S	6,806	+.2	9-11-62	C,F	2R	-	7-41	S	-	L.
						100	3	S										
10ada-1	Blaine Brown	1934	J	250	2	-	-	S,G	6,796	+4.9	9-11-62	F	1.5M	-	9-62	D,I, S	49	
11aaa-1	Joseph Rickenbach	1920	J	250	2	-	-	S,G	6,806	+12.5	9- 5-62	F	5M	-	9-62	I,S	55	One of 2 wells.
11bab-1	Clifton and Donald Schougaard	1915	J	100	2	-	-	S,G	6,789	+5.7	9-11-62	F	6.3M	-	9-62	S	49	
11cbc-1	L. L. Dastrup	1900	J	75	2	-	-	S,G	6,783	+3.5	9-11-62	F	.7M	-	9-62	S	49	
14cbb-1	S. J. Hatch	1907	J	125	2	-	-	S,G	6,768	+5.1	9-14-62	F	.4M	-	9-62	D,S	50	
15adc-1	E. C. Bagley	1903	J	140	2	-	-	S,G	6,772	+6.0	9-14-62	F	35M	-	9-62	I,S	49	
15cba-1	U.S. Geol. Survey	1962	Dr	525.0	6	98	6	S,G	6,796	-2.5	9- 8-62	C	-	-	-	S	-	TH 19. L.
						235	21	S,G										
15cbb-1	Talmage Bagley	1900	Du	22	36	-	-	S,G	6,803	-10.7	9-14-62	C	8.5R	-	9-62	D,O, S	-	W.

Table 1.--Records of selected wells and test holes in the upper Sevier River basin - Continued

Well number	Owner or user	Year drilled	Type of well	Depth of well (feet)	Diameter of well (inches)	Principal aquifer: Depth to top (feet)	Principal aquifer: Thickness (feet)	Principal aquifer: Character of material	Altitude of land-surface datum (feet)	Water level: Above (+) or below (-) land-surface datum (feet)	Water level: Date of measurement	Method of lift	Yield (gpm)	Drawdown (feet)	Date of measurement	Use of water	Temperature (°F)	Remarks and other data available
								Grass Valley - Continued										
(C-27-1)																		
15dba-1	M. C. Bell	1918	J	235	2	-	-	S,G	6,778	-4.1	9-14-62	N	-	-	-	N	-	
16dcc-1	do	1949	Dr	98	5	18 92	5 6	G S,G	-	-27.0	3- 5-49	J	18R	7	3-49	D,I,S	53	L.
20dca-1	R. B. Sorensen	1952	Dr	150	6	49	101	V	-	-114.0	1-21-52	J	20R	21	1-52	D,I,S	50	L.
21baa-1	M. J. Brindley	1949	Dr	519	6	370 515	10 4	G G	-	-8.0	4-29-49	J	120R	6	4-49	D,S	52	L.
21cab-2	A. and E. V. Sorensen	1943	Dr	79	5	79	-	G	-	-30.0	1-11-43	C	5R	1	1-43	D,I,S	60	One of 2 wells.
22daa-1	H. S. Gleave	1910	J	260	1.5	-	-	S,G	-	+4.5	9-14-62	F	1M	-	9-62	I,S	50	
27abc-2	do	1910	J	260	2	-	-	S,G	6,741	+2.6	3-11-58	F	1M	-	8-62	D,I,O,S	51	One of 2 wells. C,W.
27bac-1	U.S. Geol. Survey	1962	Dr	770.0	6	260 376	109 14	S,G G	6,755	-8.5	8-30-62	N	-	-	-	N	51	TH 15. L.
28ccb-1	Newell Nielsen	-	Du	21.0	20	-	-	S,G	6,820	-14.0	9-18-62	J	-	-	-	D,O,S	51	W.
29dba-1	Dean and G. A. Bagley and Lynn Winget	1943	Dr	155	5	128	27	Cg	6,850	-120.0	2- 5-43	Cy	5R	0	2-43	D,S	60	Perf. 128-155 ft. L.
29ddd-1	K. B. Brown	1951	Dr	149	6	43 119	2 27	G S	6,827	-80.0	6- 1-51	J	5R	10	6-51	D,I,S	-	L.
(C-28-1)																		
4acb-1	Victor and Grant Magelby	1914	J	215	2	-	-	S,G	6,710	+6.5	9-18-62	F	4M	-	9-62	O,S	52	W.
(C-29-2)																		
25cac-1	Mosiel Jolley	1942	Dr	66	4	54	12	S,G	6,415	-23.0	10-27-42	Cy	5R	1	10-42	D,S	53	L.
26dac-1	U.S. Geol. Survey	1962	Dr	496.0	6	15 101	70 99	G G	6,410	-21.5	8-29-62	N	-	-	-	N	56	TH 18. L.
35bad-1	G. D. Moore	1952	Dr	197	6	15 150	45 47	S,G S,G	6,405	-21.1	9-14-61	J	10R	25	7-52	D,I,O,S	54	C,L,W.
35bdb-1	Don Childs	1942	Dr	95	4	42	53	Cg,S,G	6,410	-21.6	9-14-61	J	5R	0	11-42	D,S	55	L.
36cab-1	George Bridges	1955	Du	25	24	20	5	G	6,395	-21	9-14-61	C	-	-	-	D,S	56	
(D-25-1)																		
8ccd-1	King Brothers, Inc.	1949	Dr	310	6	35 108 280	12 48 30	S,G S G	-	-15.4	8-18-61	C	50R	2	5-49	O,S	54	L,W.
17ddc-1	Cecil King	-	J	52.0	1	-	-	S,G	-	-	-	F	.5M	-	8-61	D,S	58	C.
19add-1	Don McMillan	1898	J	12.0	2	-	-	S,G	7,012	+4.6	8-18-61	F	20M	-	8-61	I,O,S	51	One of 2 wells. W.
31cbd-1	Charles Burr	-	J	38.0	2	-	-	S,G	-	+3.2	3-11-58	F	1M	-	7-58	O,S	51	W.
31dbb-1	Nellie Dastrup	1960	J	112	2	11	101	G	-	+5.3	7- 60	F	.5M	-	8-61	S	53	L.

1/ Test hole 21 of central Sevier Valley drilling program, see Carpenter, C. H. and Young, R. A., 1963, Ground-water data, central Sevier Valley, parts of Sanpete, Sevier, and Piute Counties, Utah: U.S. Geol. Survey open-file rept. (duplicated as Basic-Data Rept. No. 3), p. 32.

2/ Test hole 22 of central Sevier Valley drilling program, see Young, R. A., 1960, Ground-water areas and well logs, central Sevier Valley, Utah: U.S. Geol. Survey open-file rept., p. 6.

Table 2.--Records of selected springs in the upper Sevier River basin

Geologic source: Qal, Quaternary alluvium; QTsr, Sevier River Formation (lower Pleistocene or upper Pliocene); Tbw, Brian Head and Wasatch Formations (undifferentiated) (Miocene? and Eocene); Tv, Tertiary volcanic rock; Ksu, Cretaceous sandstone (undifferentiated).
Yield (gpm, gallons per minute): E, estimated; M, measured; R, reported.
Use of water: D, domestic; I, irrigation; P, public supply; S, stock.
Improvements, other data available, and remarks: C, chemical analysis in table 5.

Location	Owner or user	Name	Altitude of land-surface datum (feet)	Geologic source: Type of rock	Geologic source: Formation	Geologic source: Nature of openings	Yield (gpm)	Date of measurement	Use of water	Temperature (°F)	Improvements, other data available, and remarks
					Panguitch Valley						
(C-32-5)											
23baa	Ted Perkins	Hawkin Spring	6,550	Alluvium	Qal	Formation contact with underlying igneous intrusive	110M	8-62	I,S	51	Collecting chamber, pipeline, ditches, and small reservoir.
35abb	Marshall Ditch Company	Marshall Slough	6,355	do	Qal	Seepage area in valley fill	1,350M	8-55	I,S	44-57	Ditches. Part of spring area also in (C-32-5) 26a and 26d. C.
35d	do	Veater Slough	6,370	do	Qal	Seepage area at toe of alluvial fan	450E	10-62	I,S	54	
(C-33-5)											
9dac	Peter LeFevre	North LeFevre Spring	6,440	do	Qal	Formation contact of thin Qal with underlying Tbw sandstone	30E	1-62	I,S	43	Small reservoir.
9dcc	do	South LeFevre Spring	6,450	do	Qal	do	10R	10-61	D,S	-	Collecting chamber and pipeline.
16cdc	Stanley Tebbs	Tebbs Spring	6,460	do	Qal	do	280M	5-62	I,S	50-68	Small reservoir. C.
17ac	Peter and George LeFevre	-	-	Sandstone and conglomerate	Tbw	Fault zone	15M	7-62	D,I,S	79-90	Collecting chamber and pipeline. Part of spring area also in (C-33-5) 17da.
(C-33-6)											
5ccb	Various water users	Bear Creek Spring	7,400	Volcanic	Tv	Fractures and joints	10E	6-62	D,S	64	C.
(C-34-5)											
34aac	Jack Riggs	Riggs Spring	6,610	Alluvium	Qal	Formation contact with underlying QTsr sandstone and agglomerate	5E	1-62	I,S	43-52	Small reservoir. C.
(C-34-6)											
18c	City of Panguitch	Panguitch Springs	8,200	Volcanic	Tv	Fractures and joints	475R	12-61	P	51	Collecting chambers, pipeline, and 500,000 gallon capacity head-house. C.
21aca	Various water users	Five Mile Trough Spring	7,800	Sandstone	Tbw	do	.5M	5-62	D,S	47	Collecting chamber and water tank.
(C-35-4½)											
19cbc	Margaret Haycock	Red Canyon Spring	6,820	Alluvium	Qal	Formation contact with underlying QTsr	450M	11-62	I,S	53	Ditch and small reservoir.
(C-35-5)											
14ac	do	Casto Springs	6,790	do	QTsr	Seepage from gravel	50M	11-62	I,S	48-50	Do.
24dc	J. W. Myers	Watercress Springs	6,800	do	QTsr	do	5E	9-62	I,S	48	C.
25ab	do	Myers Springs	6,800	do	QTsr	do	450M	11-62	I,S	47-50	Headhouse, several ditches, and several small reservoirs.
(C-36-5)											
14c	C. A. Heaton	Johnson Creek Springs	6,920	do	Qal	Seepage at toe of dissected old alluvial fan	200R	-	I,S	48-51	Ditches and small reservoir.
22a	Jay and Dudley Proctor	Proctor Springs	6,960	do	Qal	do	10E	10-62	I,S	48-51	Do.
28c	H. S. Barnhurst and A. D. Wilson	Hatch Springs	6,980	do	Qal	do	Wet spots	10-62	I,S	48	Ditches. Part of spring area also in (C-36-5) 28d.
(C-36-7)											
18acb	Various water users	Blue Spring	8,480	Limestone	Tbw	Solution channels	4,500E	8-62	I,S	43	Ditches.
31dac	do	Mammoth Spring	8,200	do	Tbw	do	900M 121,000M	4-57 6-57	I,S	40-41	C.
(C-37-6)											
32dac	do	Upper Asay Spring	7,120	do	Tbw	do	3,600M	10-62	I,S	47	Ditches. C.
33bc	do	Lower Asay Spring	7,100	do	Tbw	do	13,000M	8-54	I,S	50-51	C.
33ddc	do	Cub Spring	7,240	do	Tbw	do	25M	10-62	I,S	48	Small reservoir.
(C-38-8)											
12cd	do	Duck Creek Spring	8,555	do	Tbw	do	4,200-11,200M	8-54	I,S	45-50	Small reservoir. C.

Table 2.--Records of selected springs in the upper Sevier River basin - Continued

Location	Owner or user	Name	Altitude of land-surface datum (feet)	Geologic source: Type of rock	Geologic source: Formation	Geologic source: Nature of openings	Yield (gpm)	Date of measurement	Use of water	Temperature (°F)	Improvements, other data available, and remarks
						Circle Valley					
(C-30-3) 17cba	Junction Irrigation Company	Mitchell Slough	6,020	Alluvium	Qal	Seepage area in valley fill	3,670M	8-60	I,S	50-59	Ditches and concrete-lined canal. Part of spring area also in (C-30-3)18a and (C-30-4)13abd. C.
(C-30-4) 3b	Harold Pearson	Oak Basin Spring	6,600	Volcanic	Tv	Fractures and joints	15M	5-62	I,S	64	
16ab	Town of Circleville	Circleville Spring	7,000	do	Tv	do	60M	12-62	P	44	Collecting chamber, pipeline, and 88,000 gallon capacity head-house. C.
21c	do	Wades Canyon Spring	7,000	do	Tv	do	-	-	S	-	C.
						East Fork Valley					
(C-30-2½) 17d	Town of Kingston	-	-	Volcanic	Tv	Fractures and joints	-	-	S	-	C.
(C-30-3) 24aab	do	Kingston Spring	6,500	do	Tv	do	15M	12-62	P	55	Collecting chamber, pipeline, and 20,000 gallon capacity head-house. C.
(C-31-2) 19bb	Town of Antimony	Antimony Spring	7,100	do	Tv	do	220R	7-62	P	55	Collecting chamber, pipeline, and 80,000 gallon capacity head-house. C.
27ca	R. F. Hall	Clark or Clear Spring	6,550	do	Tbw	Contact of basalt over conglomerate	50R	-	I,S	55	
(C-32-2) 2acd	Various water users	-	6,590	do	Tbw	do	450E	6-62	I	50	Ditches. C.
11ba	K. E. Weggener	Ant Creek Spring	6,700	do	Tbw	do	340M	8-62	I,S	60	Ditches and small reservoir. Part of spring area also in (C-32-2)11bd.
11cd	H. S. Gleave	Gleave Spring	6,700	do	Tbw	do	300M	8-62	D,I,S	60	Do.
23adb	Various water users	Deer Creek Spring	7,114	do	Tbw	Fractures and joints	1,640M	8-62	I,S	50	C.
(C-34-3) 27ddc	do	Tom Best Spring	7,600	Limestone	Tbw	Fractures and solution channels	500E	7-62	I,S	50	Collecting chamber and ditch. C.
(C-35-2) 19aa	do	Dipping Vat Spring	7,600	do	Tbw	Fractures and solution channels near fault contact with Ksu sandstone	5M	11-62	D,S	45	Water trough.
(C-36-3) 4cba	V. Hatch	King Spring	7,580	Alluvium	Qal	Formation contact with underlying Ksu sandstone	1M	11-62	S	52	Ditch.
(C-37-4) 17bba	Various water users	Cold Spring	7,850	Sandstone	Ksu	Fractures and joints near contact with Tbw	10M	6-62	D,S	44	C.
						Grass Valley					
(C-25-1) 26bc	Burrville Irrigation Company and Town of Burrville	Burr Springs	7,500	Volcanic	Tv	Fractures and joints	1,440M	7-62	I,P,S	50	Collecting chamber, pipeline, and 1,700 gallon capacity head-house. C.
(C-26-1) 13c	Frands Peterson and Soren Sorenson	Red Cedar Grove Springs	6,880	do	Tv	do	540M	12-62	I,S	53-58	Ditches. Part of spring area also in (C-26-1) 14d and 23a.
(C-27-1) 1ab	Joseph Rickenbach	Koosharem or School Section Springs	6,850	do	Tv	do	120M	8-62	I,S	55	Collecting ditch.
8adb	James Brindley	Brindley Spring	7,400	do	Tv	do	50E	10-63	D,S	58	Pipeline and collecting chambers.
35a	Various water users	Parker Mountain Springs	7,500	do	Tv	do	50E	6-61	S	54-57	Part of spring area also in (C-27-1)35d.
(C-29-2) 15cdb	Gerald Allen	Pole Canyon Spring	6,600	do	Tv	do	270M	7-62	I	55	Small reservoir and pipeline. C.
(C-30-1) 5b	George Bridges	Pete's Spring No. 1	7,500	do	Tv	do	225E	10-63	I,S	61	Ditch.
(D-26-1) 30ab	Town of Koosharem	Brown Spring	7,000	do	Tv	Fractures near fault zone	200E	8-62	P	55	Collecting chamber, pipeline, and 4,500 gallon capacity head-house. C.

Table 3.--Water levels in observation wells in the upper Sevier River basin

Water levels in feet below land-surface datum are designated by a minus (-) sign immediately before the first entry in the table, those above land-surface datum are designated similarly by a plus (+) sign. Where some measurements are above and others below land-surface datum, the readings between plus signs are above the plane of reference, those between minus signs are below the plane of reference.

An asterisk (*) immediately after a measurement indicates that the measurement was made by the U.S. National Park Service; all other measurements were made by the U.S. Geological Survey. Measurements preceding the first listed measurement for some of the wells have been published in the following Water-Supply Papers of the Geological Survey:

Year	Number	Year	Number	Year	Number	Year	Number	Year	Number	Year	Number	Year	Number
1936	817	1939	886	1942	948	1945	1027	1948	1130	1951	1195	1954	1325
1937	840	1940	910	1943	990	1946	1075	1949	1160	1952	1225	1955	1408
1938	845	1941	940	1944	1020	1947	1100	1950	1169	1953	1269		

Panguitch Valley

(C-32-5)26aca-1. Equipped with automatic water-level recording gage, July 31, 1961 to Jan. 4, 1963. Water levels reported between these dates are at noon, from recorder graphs. Records available 1951-63.

Aug.	1, 1951	-13.1	Jan.	6, 1961	-13.8	May	31, 1962	-10.9
Dec.	9	13.8	Feb.	28	15.0	June	30	11.5
Apr.	6, 1952	13.9	Mar.	22	16.6	July	31	11.0
Dec.	7	13.5	Apr.	25	16.4	Aug.	31	11.5
Mar.	16, 1953	14.1	May	24	11.2	Sept.	30	11.6
Dec.	10	13.5	July	5	11.2	Oct.	31	13.6
Mar.	25, 1954	14.1	July	27	10.9	Nov.	30	13.4
Aug.	2	14.4	July	31	11.5	Dec.	26	14.1
Dec.	4, 1955	13.4	Aug.	31	12.4	Jan.	28, 1963	14.4
Mar.	20, 1956	15.2	Sept.	30	13.2	Feb.	27	14.2
Dec.	22	14.0	Oct.	31	13.8	Mar.	25	14.0
Mar.	30, 1957	14.6	Nov.	30	14.1	Apr.	29	13.4
Dec.	20	14.3	Dec.	31	14.3	May	29	10.6
Apr.	3, 1958	13.5	Jan.	31, 1962	14.4	July	2	10.9
Dec.	23	13.9	Feb.	28	14.0	July	30	11.6
Apr.	11, 1959	14.1	Mar.	31	13.7	Aug.	28	11.5
Dec.	23	15.0	Apr.	30	10.7	Sept.	23	12.1
Apr.	9, 1960	14.8						

(C-32-5)35bab-1. Records available 1962-63

July	23, 1962	+ 3.0	Dec.	3, 1962	+ 2.9	May	29, 1963	+ 3.0
July	31	2.8	Jan.	28, 1963	2.5	July	2	3.0
Aug.	28	2.9	Feb.	27	2.5	July	30	3.0
Sept.	24	2.9	Mar.	25	2.7	Aug.	28	3.1
Oct.	29	2.8	Apr.	29	3.0	Sept.	23	2.9

(C-33-5)9adb-1. Records available 1951-63

Aug.	1, 1951	- 0.8	Feb.	28, 1961	- 2.3	July	3, 1962	- 0.9
Dec.	9	2.5	Mar.	22	1.9	July	31	1.9
Apr.	6, 1952	.9	Apr.	25	2.2	Aug.	28	2.6
Mar.	16, 1953	.4	May	24	1.5	Sept.	24	3.1
Mar.	25, 1954	.5	July	5	2.1	Oct.	29	2.9
Dec.	2	.2	July	27	2.9	Dec.	3	2.4
Dec.	4, 1955	2.3	Aug.	23	3.3	Dec.	26	2.3
Mar.	20, 1956	1.9	Sept.	25	3.1	Jan.	28, 1963	2.4
Dec.	22	3.0	Oct.	30	2.9	Feb.	27	2.1
Mar.	30, 1957	2.0	Nov.	27	2.6	Mar.	25	1.7
Sept.	23	.8	Dec.	27	2.3	Apr.	29	.2
Dec.	20	.3	Feb.	1, 1962	2.3	July	2	1.2
Apr.	3, 1958	1.1	Mar.	5	2.1	July	30	2.2
Apr.	11, 1959	1.1	Apr.	2	1.6	Aug.	28	2.8
Apr.	9, 1960	1.3	Apr.	30	.4	Sept.	23	2.6
Jan.	6, 1961	2.3	May	28	.1			

(C-33-5)10cdd-1. Records available 1961-63

Oct.	23, 1961	-28.5	July	3, 1962	-25.4	Feb.	27, 1963	-29.1
Oct.	30	28.3	July	31	25.8	Mar.	25	29.3
Nov.	27	28.3	Aug.	28	26.6	Apr.	29	29.5
Dec.	27	28.8	Sept.	24	26.7	May	29	27.7
Feb.	1, 1962	29.3	Oct.	29	27.8	July	2	28.0
Mar.	5	29.4	Dec.	3	28.2	July	30	28.3
Apr.	2	29.0	Dec.	26	28.6	Aug.	28	28.0
Apr.	30	28.8	Jan.	28, 1963	28.7	Sept.	23	27.4
May	28	24.6						

(C-33-5)28bcd-1. Records available 1937-63

Mar.	20, 1956	-47.5	July	27, 1961	-49.8	Sept.	24, 1962	-46.8
Dec.	21	49.5	Aug.	23	48.6	Oct.	29	47.9
Mar.	30, 1957	51.1	Sept.	25	48.6	Dec.	3	47.5
Dec.	20	47.7	Oct.	30	49.0	Dec.	26	48.5
Apr.	3, 1958	49.8	Nov.	27	49.0	Jan.	28, 1963	49.2
Apr.	11, 1959	47.3	Dec.	27	49.6	Feb.	27	49.4
Dec.	23	48.3	Feb.	1, 1962	50.6	Mar.	25	50.1
Apr.	9, 1960	50.3	Mar.	5	50.5	Apr.	29	49.4
Jan.	16, 1961	53.0	Apr.	2	50.1	May	29	48.5
Feb.	28	50.4	Apr.	30	50.6	July	2	48.5
Mar.	22	50.3	May	28	50.1	July	30	48.7
Apr.	25	51.3	July	3	47.1	Aug.	28	48.0
May	24	51.5	July	31	48.0	Sept.	23	48.2
July	5	50.2	Aug.	28	46.7			

(C-34-5)2cbc-1. Records available 1961-63

Oct.	16, 1961	-89.4	July	3, 1962	-87.7	Feb.	27, 1963	-84.0
Oct.	30	88.5	July	31	87.0	Mar.	25	84.8
Nov.	27	86.8	Aug.	28	86.4	Apr.	29	85.3
Dec.	27	87.2	Sept.	24	85.9	May	29	84.4
Feb.	1, 1962	88.5	Oct.	29	82.7	July	1	84.4
Mar.	5	90.0	Dec.	3	80.7	July	30	84.3
Apr.	2	90.4	Dec.	26	81.0	Aug.	28	84.6
Apr.	30	90.2	Jan.	28, 1963	82.7	Sept.	23	84.1
May	28	88.9						

(C-34-5)4ddd-1. Records available 1951-54, 1956-63

Aug.	1, 1951	-10.2	Apr.	9, 1960	-15.7	May	28, 1962	-12.6
Dec.	9	9.0	Feb.	28, 1961	17.5	July	3	9.8
Dec.	7, 1952	7.8	Mar.	22	16.9	July	31	8.4
Mar.	16, 1953	14.6	Apr.	25	12.6	Aug.	28	9.1
Dec.	10	9.6	May	24	12.4	Sept.	24	9.2
Mar.	25, 1954	16.4	July	5	15.1	Oct.	29	6.9
Dec.	2	6.1	July	27	16.0	Dec.	3	8.7
Mar.	20, 1956	17.7	Aug.	23	15.9	Jan.	28, 1963	13.0
Dec.	22	15.9	Sept.	25	12.9	Feb.	27	16.0
Mar.	30, 1957	13.7	Oct.	30	6.6	Mar.	25	15.4
Sept.	23	5.2	Nov.	27	8.6	Apr.	29	13.3
Dec.	20	9.9	Dec.	27	13.4	May	29	11.2
Apr.	3, 1958	14.8	Feb.	1, 1962	16.0	July	1	12.0
Dec.	23	8.6	Mar.	5	17.5	July	30	12.6
Apr.	11, 1959	10.5	Apr.	2	17.3	Aug.	28	11.4
Dec.	23	11.4	Apr.	30	16.8	Sept.	23	10.3

(C-34-5)8adb-2. Records available 1935-63

Mar.	20, 1956	-18.6	July	5, 1961	-18.9	Aug.	28, 1962	-15.2
Dec.	21	19.7	July	27	18.9	Sept.	24	15.3
Mar.	30, 1957	20.1	Aug.	23	18.6	Oct.	29	16.3
Dec.	20	17.1	Sept.	25	18.3	Dec.	3	17.5
Apr.	3, 1958	17.6	Oct.	30	18.8	Dec.	26	18.3
Dec.	23	16.2	Nov.	27	19.2	Jan.	28, 1963	19.0
Apr.	11, 1959	18.3	Dec.	27	19.7	Feb.	27	19.3
Dec.	23	18.1	Feb.	1, 1962	20.2	Mar.	25	19.5
Apr.	9, 1960	19.2	Mar.	5	20.2	Apr.	29	19.6
Jan.	6, 1961	19.7	Apr.	2	20.2	May	29	19.3
Feb.	28	20.1	Apr.	30	19.5	July	2	18.6
Mar.	22	19.8	May	28	18.2	July	30	18.0
Apr.	25	19.6	July	3	16.2	Aug.	28	17.9
May	24	19.0	July	31	15.6	Sept.	23	18.2

(C-34-5)20dbd-1. Equipped with automatic water-level recording gage, July 31, 1961 to Jan. 9, 1963. Water levels reported between these dates are at noon, from recorder graphs. Records available 1951-63.

Aug.	1,1951	-18.6	Apr.	9, 1960	-15.7	May	31, 1962	-12.4
Dec.	9	19.4	Feb.	28, 1961	13.2	June	30	8.2
Apr.	6, 1952	12.8	Mar.	22	17.5	July	31	4.8
Dec.	7	14.3	Apr.	25	18.2	Aug.	31	6.1
Mar.	16, 1953	14.0	May	24	21.0	Sept.	30	7.4
Dec.	10	16.4	July	5	6.7	Oct.	31	10.7
Mar.	25, 1954	19.5	July	27	12.8	Nov.	30	13.8
Dec.	2	18.6	July	31	11.0	Dec.	31	16.5
Dec.	4, 1955	18.0	Aug.	31	9.8	Jan.	28, 1963	17.7
Mar.	20, 1956	19.8	Sept.	30	12.0	Feb.	27	17.8
Mar.	30, 1957	21.0	Oct.	31	16.1	Mar.	25	18.6
Sept.	23	9.5	Nov.	30	18.1	Apr.	29	18.7
Dec.	20	18.0	Dec.	31	19.4	May	29	15.4
Apr.	3, 1958	13.0	Jan.	31, 1962	20.5	July	1	13.9
Dec.	23	17.4	Feb.	28	20.5	July	30	12.9
Apr.	11, 1959	16.2	Mar.	31	8.9	Aug.	28	14.7
Dec.	23	18.2	Apr.	30	11.1	Sept.	23	13.2

(C-34-5)21adc-1. Records available 1961-63

Oct.	3, 1961	-24.0	July	3, 1962	-14.1	Feb.	27, 1963	-25.7
Oct.	30	22.4	July	31	13.4	Mar.	25	26.4
Nov.	27	23.0	Aug.	28	13.9	Apr.	29	25.5
Dec.	27	24.5	Sept.	24	17.5	May	29	23.5
Feb.	1, 1962	25.9	Oct.	29	20.2	July	1	22.4
Mar.	5	26.8	Dec.	3	22.4	July	30	22.1
Apr.	2	27.2	Dec.	26	23.5	Aug.	28	21.7
Apr.	30	26.9	Jan.	28, 1963	24.7	Sept.	23	22.9
May	28	23.3						

(C-35-5)2bcc-1. Records available 1961-63

Aug.	14, 1961	-10.7	May	28, 1962	- 8.1	Feb.	27, 1963	-11.7
Sept.	25	10.7	July	3	7.8	Mar.	25	11.9
Oct.	30	10.6	July	31	8.8	Apr.	29	10.6
Nov.	27	11.6	Aug.	28	10.1	May	28	8.5
Dec.	27	12.5	Sept.	24	8.3	July	1	9.4
Feb.	1, 1962	12.2	Oct.	29	9.9	July	30	10.7
Mar.	5	12.4	Dec.	3	10.6	Aug.	28	9.2
Apr.	2	12.0	Dec.	26	11.2	Sept.	23	10.4
Apr.	30	11.2	Jan.	28, 1963	10.9			

(C-35-5)35ddb-2. Records available 1951-63

July	31, 1951	-24.0	Mar.	24, 1954	-25.4	Sept.	23, 1957	-23.6
Dec.	8	24.9	Dec.	2	25.4	Dec.	30	26.2
Apr.	5, 1952	24.6	Dec.	3, 1955	24.5	Apr.	3, 1958	25.1
Dec.	6	24.6	Mar.	19, 1956	25.4	Dec.	23	24.9
Mar.	15, 1953	25.2	Dec.	21	25.1	Apr.	11, 1959	25.8
Dec.	8	24.9	Mar.	29, 1957	26.3	Dec.	23	25.4

Table 3.--Water levels in observation wells in the upper Sevier River basin - Continued

Panguitch Valley - Continued

(C-35-5)35ddb-2 - Continued

Apr.	9, 1960	-25.3	Dec.	27, 1961	-24.8	Dec.	3, 1962	-25.2
Jan.	6, 1961	24.9	Feb.	1, 1962	24.8	Dec.	26	24.7
Feb.	28	25.3	Mar.	5	25.1	Jan.	28, 1963	24.5
Mar.	22	25.6	Apr.	2	24.3	Feb.	27	25.2
Apr.	25	25.8	Apr.	30	24.0	Mar.	25	25.4
May	24	23.5	May	28	23.6	Apr.	29	23.7
July	5	24.0	July	3	23.5	May	28	23.0
July	27	24.3	July	31	23.1	July	1	23.3
Aug.	23	23.8	Aug.	28	23.4	July	30	23.9
Sept.	25	24.7	Sept.	24	23.1	Aug.	28	23.9
Oct.	30	24.6	Oct.	29	24.3	Sept.	23	24.0
Nov.	27	24.9						

(C-36-5)28bdc-1. Records available 1962-63

July	31, 1962	- 5.4	Dec.	26, 1962	- 5.3	May	28, 1963	- 5.1
Aug.	28	5.6	Jan.	28, 1963	5.9	July	1	5.5
Sept.	24	5.5	Feb.	27	6.1	July	30	5.9
Oct.	29	5.2	Mar.	25	6.0	Aug.	28	5.6
Dec.	3	5.3	Apr.	29	5.9	Sept.	23	5.6

(C-36-5)29dcd-1. Records available 1961-62

Sept.	25, 1961	-46.5	Oct.	29, 1962	-46.0	Dec.	3, 1962	-44.0
May	28, 1962	49.0						

Circle Valley

(C-30-3)15bba-1. Equipped with automatic water-level recording gage, Oct. 26, 1956 to May 11, 1960. Water levels reported between these dates are at noon, from recorder graphs. Records available 1935-63

Sept.	11, 1956	-15.7	Feb.	28, 1959	-23.7	July	3, 1961	-15.2
Oct.	31	19.8	Mar.	31	23.9	July	25	12.4
Nov.	30	22.7	Apr.	30	18.8	Aug.	22	13.8
Dec.	31	24.8	May	31	16.0	Sept.	25	13.2
Jan.	31, 1957	26.3	June	30	15.1	Oct.	30	18.5
Feb.	28	27.3	July	31	14.8	Nov.	27	21.5
Mar.	17	27.4	Aug.	31	14.5	Dec.	27	23.6
Apr.	28	24.3	Sept.	30	13.1	Feb.	1, 1962	25.4
May	31	19.0	Oct.	31	18.8	Mar.	5	26.6
June	30	16.0	Nov.	30	20.5	Mar.	30	27.6
July	31	14.5	Dec.	31	22.5	Apr.	30	22.4
Aug.	31	13.8	Jan.	31, 1960	24.5	May	28	16.1
Sept.	30	14.7	Feb.	29	25.6	July	3	13.4
Oct.	31	19.1	Mar.	31	26.8	Aug.	1	12.3
Nov.	30	21.9	Apr.	30	22.0	Aug.	28	12.8
Dec.	31	24.1	May	23	16.5	Sept.	24	12.4
Jan.	31, 1958	25.7	June	20	15.1	Oct.	29	17.2
Feb.	28	26.6	July	25	13.8	Dec.	3	20.6
Mar.	31	27.2	Aug.	30	14.7	Dec.	26	22.2
Apr.	30	25.6	Sept.	26	14.7	Jan.	28, 1963	23.9
May	31	14.3	Oct.	25	18.7	Feb.	27	25.1
June	30	12.6	Nov.	25	20.6	Mar.	25	25.8
July	31	11.6	Dec.	29	23.8	Apr.	29	20.8
Aug.	31	11.0	Jan.	26, 1961	25.7	May	28	15.8
Sept.	30	12.8	Feb.	23	27.7	July	1	13.9
Oct.	31	17.0	Mar.	20	28.1	July	30	12.5
Nov.	30	18.1	Apr.	21	25.9	Aug.	28	12.0
Dec.	31	20.9	May	22	17.6	Sept.	23	11.2
Jan.	31, 1959	22.7						

(C-30-3)16bbb-1. Records available 1956, 1959-63

Nov.	28, 1956	-15.5	Oct.	25, 1960	-24.5	Apr.	30, 1962	-25.7
May	13, 1959	29.9	Nov.	25	24.8	May	28	23.5
May	25	23.7	Dec.	29	25.9	July	3	22.8
June	25	23.3	Jan.	26, 1961	26.6	Aug.	1	22.5
July	27	23.9	Feb.	23	27.0	Aug.	28	22.3
Aug.	24	23.1	Mar.	20	26.9	Sept.	24	22.4
Sept.	28	22.8	Apr.	21	27.2	Oct.	29	23.5
Oct.	26	24.0	May	22	25.3	Dec.	3	24.8
Nov.	23	24.6	July	3	24.5	Dec.	26	25.5
Dec.	28	25.4	July	25	23.8	Jan.	28, 1963	26.3
Jan.	25, 1960	26.0	Aug.	22	23.4	Feb.	27	26.5
Feb.	25	26.4	Sept.	25	23.6	Mar.	25	26.8
Mar.	29	26.7	Oct.	30	24.6	Apr.	29	26.0
Apr.	26	26.2	Nov.	27	25.5	May	28	25.0
May	23	24.8	Dec.	27	26.4	July	1	23.9
June	20	24.1	Feb.	1, 1962	27.2	July	30	23.7
July	25	24.3	Mar.	5	27.3	Aug.	28	23.5
Aug.	30	23.9	Mar.	30	27.3	Sept.	23	22.9
Sept.	26	23.8						

(C-30-3)20bab-1. Records available 1961-63

Dec.	4, 1961	- 1.6	Aug.	1, 1962	- 2.7	Mar.	25, 1963	- 1.6
Dec.	27	1.7	Aug.	28	3.0	Apr.	29	2.0
Feb.	1, 1962	1.7	Sept.	24	2.9	May	29	2.4
Mar.	5	1.7	Oct.	29	1.5	July	2	2.9
Mar.	30	1.1	Dec.	3	1.5	July	30	3.1
Apr.	30	.6	Dec.	26	1.5	Aug.	28	2.8
May	28	.8	Jan.	28, 1963	1.3	Sept.	23	2.3
July	3	1.8	Feb.	27	1.3			

(C-30-3)30baa-1. Records available 1956, 1959-63

Nov.	28, 1956	-10.4	Feb.	25, 1960	-10.5	Apr.	25, 1961	-10.4
Mar.	2, 1959	9.1	Mar.	29	10.8	May	22	9.9
Mar.	25	9.5	Apr.	26	10.0	July	3	10.8
May	1	8.7	May	23	9.6	July	25	11.2
May	25	9.1	June	20	10.1	Aug.	22	11.7
June	25	9.8	July	25	11.2	Sept.	25	10.8
July	27	10.4	Aug.	30	11.8	Oct.	30	10.8
Aug.	24	10.4	Sept.	26	11.8	Nov.	27	10.9
Sept.	28	10.4	Oct.	25	11.0	Dec.	27	11.3
Oct.	26	9.6	Nov.	25	10.4	Feb.	1, 1962	11.2
Nov.	23	9.2	Dec.	29	10.9	Mar.	5	11.8
Dec.	28	9.7	Feb.	23, 1961	11.6	Mar.	30	11.8
Jan.	25, 1960	10.2	Mar.	22	11.6	Apr.	30	10.6

(C-30-3)30baa-1 - Continued

May	28, 1962	- 8.6	Dec.	3, 1962	- 9.1	May	29, 1963	- 9.2
July	3	7.9	Dec.	26	9.6	July	2	10.1
Aug.	1	9.1	Jan.	28, 1963	10.0	July	30	11.0
Aug.	28	9.8	Feb.	27	10.4	Aug.	28	11.1
Sept.	24	10.0	Mar.	25	10.6	Sept.	23	10.5
Oct.	29	9.0	Apr.	29	10.2			

(C-30-3)30caa-1. Equipped with automatic water-level recording gage, Feb. 8, 1961. Water levels reported after this date are at noon, from recorder graphs. Records available 1960-63

June	4, 1960	-20.9	Aug.	31, 1961	-23.7	Sept.	30, 1962	-21.9
June	20	21.7	Sept.	30	23.0	Oct.	31	21.0
July	25	23.4	Oct.	31	23.0	Nov.	30	21.0
Aug.	30	24.1	Nov.	30	23.1	Dec.	26	21.6
Sept.	26	24.2	Dec.	31	23.6	Jan.	31, 1963	22.0
Oct.	25	23.5	Jan.	31, 1962	23.5	Feb.	28	22.5
Nov.	25	22.8	Feb.	28	24.0	Mar.	31	22.5
Dec.	29	23.3	Mar.	31	24.1	Apr.	30	22.2
Jan.	26, 1961	23.5	Apr.	30	23.0	May	31	21.2
Feb.	28	23.8	May	31	20.8	July	2	22.0
Mar.	31	23.8	June	30	19.7	July	30	22.9
Apr.	25	22.7	July	31	20.8	Aug.	28	23.0
May	22	21.9	Aug.	31	21.7	Sept.	23	22.5
July	31	23.5						

(C-30-3)32bbb-1. Records available 1962-63

Oct.	1, 1962	-67.5	Feb.	27, 1963	-73.6	July	2, 1963	-73.9
Oct.	29	73.8	Mar.	25	73.7	July	30	74.0
Dec.	3	73.2	Apr.	29	73.8	Aug.	28	74.1
Dec.	26	73.1	May	29	73.9	Sept.	23	74.1
Jan.	28, 1963	73.4						

(C-30-4)14abd-1. Records available 1962-63

Jan.	16, 1962	- 7.4	Aug.	28, 1962	- 9.3	Mar.	25, 1963	- 9.9
Feb.	1	8.2	Sept.	24	10.3	Apr.	29	7.3
Mar.	5	7.9	Oct.	29	7.6	May	29	7.1
Mar.	30	7.7	Dec.	3	7.2	July	2	7.3
Apr.	30	6.6	Dec.	26	7.4	July	30	11.3
May	28	5.0	Jan.	28, 1963	8.7	Aug.	28	12.0
July	3	5.2	Feb.	27	8.2	Sept.	23	13.6
Aug.	1	7.4						

(C-30-4)25bcc-1. Records available 1938-50, 1960-63

Oct.	25, 1960	-23.0	Nov.	27, 1961	-23.5	Oct.	29, 1962	-20.1
Nov.	25	22.0	Dec.	27	24.0	Dec.	3	20.9
Dec.	29	23.0	Feb.	1, 1962	23.5	Dec.	26	21.5
Jan.	26, 1961	24.0	Mar.	5	24.5	Jan.	28, 1963	21.9
Feb.	23	24.5	Mar.	30	24.5	Feb.	27	22.4
Mar.	22	24.0	Apr.	30	23.1	Mar.	25	22.7
Sept.	25	22.5	May	28	18.7	Sept.	23	21.7
Oct.	30	22.5	July	3	17.5			

(C-30-4)26dcb-1. Records available 1956, 1961-63

Nov.	27, 1956	-31.5	Mar.	30, 1962	-36.9	Dec.	26, 1962	-34.4
Oct.	30, 1961	38.4	Apr.	30	36.5	Jan.	28, 1963	35.4
Nov.	27	36.4	May	28	32.4	Feb.	27	35.4
Dec.	27	36.9	Oct.	29	33.4	Mar.	25	35.9
Feb.	1, 1962	36.9	Dec.	3	33.7	Apr.	29	35.4
Mar.	5	37.9						

(C-30-4)34ddc-2. Records available 1961-63

Dec.	4, 1961	-68.5	July	31, 1962	-63.0	Mar.	25, 1963	-65.2
Dec.	27	67.0	Aug.	28	62.1	Apr.	29	64.7
Feb.	1, 1962	67.1	Sept.	24	63.4	May	29	60.5
Mar.	5	67.3	Oct.	29	62.1	July	2	62.8
Mar.	30	67.3	Dec.	3	64.1	July	30	64.2
Apr.	30	64.5	Dec.	26	64.7	Aug.	28	64.2
May	28	62.1	Jan.	28, 1963	64.2	Sept.	23	63.3
July	3	61.8	Feb.	27	64.8			

(C-30-4)35dab-1. Records available 1962-63

Oct.	1, 1962	-47.3	Feb.	27, 1963	-48.7	July	2, 1963	-47.0
Oct.	29	46.2	Mar.	25	49.0	July	30	48.3
Dec.	3	46.9	Apr.	29	47.9	Aug.	28	48.5
Dec.	26	47.7	May	29	45.9	Sept.	23	48.3
Jan.	28, 1963	48.2						

Table 3.--Water levels in observation wells in the upper Sevier River basin - Continued

East Fork Valley

(C-30-2)28cab-1. Records available 1961-62

Sept.	20, 1961	-36.1	Feb.	1, 1962	-30.9	June	7, 1962	-23.6
Sept.	27	35.2	Mar.	6	28.3	July	5	25.8
Oct.	31	34.5	Mar.	30	26.5	July	31	29.0
Nov.	28	33.6	Apr.	30	21.3	Aug.	29	31.7
Dec.	27	32.5						

(C-30-2)34bcc-1. Records available 1938-50, 1957, 1960-63

Sept.	24, 1957	-12.6	Nov.	28, 1961	-13.3	Dec.	4, 1962	-13.1
Dec.	20	13.4	Dec.	27	13.4	Dec.	27	13.5
Apr.	9, 1960	14.5	Feb.	1, 1962	13.6	Jan.	29, 1963	13.7
Feb.	28, 1961	14.0	Mar.	6	14.7	Feb.	28	13.4
Mar.	20	13.9	Mar.	30	14.0	Mar.	26	13.8
Apr.	21	13.9	Apr.	30	12.9	Apr.	30	13.4
May	24	11.5	June	7	11.5	May	27	11.9
July	5	12.5	July	5	11.2	July	1	12.5
July	27	11.1	July	31	10.7	July	31	12.0
Aug.	23	12.6	Aug.	29	11.7	Aug.	28	12.4
Sept.	27	13.7	Sept.	25	12.3	Sept.	24	12.9
Oct.	31	13.2	Oct.	30	12.7			

(C-31-2)3cbc-1. Records available 1962-63

Aug.	29, 1962	- 0.1	Jan.	29, 1963	- 0.2	July	1, 1963	+ 0.3
Sept.	25	+ .4	Feb.	28	.0	July	31	- .4
Oct.	30	.4	Mar.	26	.2	Aug.	28	+ .3
Dec.	4	+ .2	Apr.	30	- .4	Sept.	24	.1
Dec.	27	- .2	May	27	+ .4			

(C-31-2)23bcd-1. Records available 1957, 1960-63

Sept.	24, 1957	-55.3	Nov.	28, 1961	-57.1	Dec.	4, 1962	-57.1
Dec.	20	60.4	Dec.	27	59.4	Dec.	27	57.9
Apr.	7, 1960	63.1	Feb.	1, 1962	60.7	Jan.	29, 1963	58.2
Feb.	28, 1961	63.5	Mar.	6	61.8	Feb.	28	58.8
Mar.	20	64.1	Mar.	30	62.4	Mar.	26	59.3
Apr.	21	64.3	Apr.	30	60.1	Apr.	30	58.6
May	23	55.7	June	7	54.7	May	27	54.7
July	5	55.5	July	5	55.8	July	1	55.1
July	27	55.8	July	31	54.3	July	31	56.1
Aug.	23	54.9	Aug.	29	56.3	Aug.	28	55.4
Sept.	27	52.3	Sept.	25	56.6	Sept.	24	51.8
Oct.	31	54.7	Oct.	30	51.1			

(C-31-2)23ccd-1. Records available 1961-63

Sept.	20, 1961	-25.6	Mar.	6, 1962	-32.4	Aug.	29, 1962	-28.5
Sept.	27	26.0	Mar.	30	33.6	Sept.	25	25.6
Oct.	31	29.3	Apr.	30	29.1	Oct.	30	29.6
Nov.	28	30.8	June	7	21.6	Dec.	27	26.5
Dec.	27	29.2	July	5	24.2	Jan.	29, 1963	25.4
Feb.	1, 1962	29.7	July	31	25.2			

(C-31-2)25aba-1. Records available 1961-63

Sept.	27, 1961	-106.6	July	5, 1962	-110.3	Feb.	28, 1963	-102.1
Oct.	31	108.0	July	31	108.3	Mar.	26	103.6
Nov.	28	109.1	Aug.	29	108.6	Apr.	30	104.4
Dec.	27	110.0	Sept.	25	108.4	May	27	103.1
Feb.	1, 1962	110.6	Oct.	30	108.5	July	1	104.9
Mar.	6	112.1	Dec.	4	108.5	July	31	106.4
Mar.	30	113.3	Dec.	27	106.2	Aug.	28	106.2
Apr.	30	114.1	Jan.	29, 1963	102.3	Sept.	24	105.6
June	7	110.6						

(C-33-2)22aab-1. Records available 1962-63

Aug.	29, 1962	-10.6	Feb.	28, 1963	-10.1	July	1, 1963	-10.8
Sept.	25	10.7	Mar.	25	10.6	July	31	11.2
Oct.	30	10.8	Apr.	25	10.7	Aug.	28	11.2
Dec.	4	10.8	May	28	9.9	Sept.	24	11.3
Jan.	31, 1963	11.0						

(C-34-2)22dab-1. Records available 1947-63

Mar.	19, 1956	-205.8	July	27, 1961	-207.9	Sept.	25, 1962	-201.2
Dec.	21	212.9	Aug.	23	206.5	Oct.	30	201.6
Mar.	30, 1957	217.0	Sept.	25	205.5	Dec.	4	199.6
Dec.	20	222.1	Oct.	30	205.1	Dec.	27	199.7
Dec.	23, 1958	192.4	Nov.	28	205.2	Jan.	31, 1963	200.0
Apr.	11, 1959	190.7	Dec.	27	205.2	Feb.	28	200.7
Dec.	23	203.1	Feb.	1, 1962	205.7	Mar.	25	201.5
Apr.	9, 1960	204.9	Mar.	5	206.0	Apr.	25	202.3
Jan.	6, 1961	211.8	Apr.	2	206.0	May	28	203.2
Feb.	28	212.9	Apr.	30	204.8	July	1	203.8
Mar.	22	213.3	June	7	206.1	July	31	204.8
Apr.	25	212.7	July	6	201.2	Aug.	28	205.4
May	24	212.4	July	31	200.2	Sept.	24	206.1
July	5	209.6	Aug.	29	199.3			

(C-34-2)30ccc-1. Records available 1962-63

Aug.	6, 1962	-82.4	Dec.	27, 1962	-83.6	July	1, 1963	-79.2
Aug.	29	81.8	Feb.	28, 1963	84.6	July	31	80.0
Sept.	25	82.1	Mar.	25	84.8	Aug.	28	80.6
Oct.	30	82.5	Apr.	25	83.3	Sept.	24	81.7
Dec.	4	83.2	May	28	78.8			

(C-36-3)6dba-1. Records available 1946-63

Mar.	19, 1956	-46.2	July	27, 1961	-52.4	Sept.	25, 1962	-45.9
Dec.	21	38.7	Aug.	23	43.2	Oct.	30	45.0
Mar.	30, 1957	42.0	Sept.	25	42.2	Dec.	4	42.7
Dec.	20	39.2	Oct.	30	41.4	Dec.	27	41.3
Apr.	3, 1958	37.2	Nov.	28	41.2	Jan.	31, 1963	45.4
Dec.	23	45.6	Dec.	27	41.0	Feb.	28	42.1
Apr.	11, 1959	39.4	Feb.	1, 1962	42.2	Mar.	25	42.9
Dec.	23	38.6	Mar.	5	46.9	Apr.	25	42.1
Apr.	9, 1960	39.3	Apr.	2	43.1	May	28	44.1
Jan.	6, 1961	43.6	Apr.	30	41.8	July	1	49.1
Feb.	28	46.5	May	28	43.1	July	31	50.6
Mar.	22	44.3	July	6	55.6	Aug.	28	44.7
May	24	43.1	July	31	54.4	Sept.	24	41.8
July	5	51.1	Aug.	29	50.2			

(C-36-3)7aac-1. Records available 1938-63

Mar.	19, 1956	- 8.0	July	5, 1961	-10.6	Aug.	29, 1962	- 7.9
Dec.	22	8.5	July	27	10.8	Sept.	25	8.3
Mar.	30, 1957	7.7	Aug.	23	11.0	Oct.	30	7.9
Dec.	21	6.6	Sept.	25	7.5	Dec.	4	7.6
Apr.	3, 1958	2.6	Oct.	30	8.3	Dec.	27	7.5
Dec.	23	6.8	Nov.	28	9.3	Jan.	31, 1963	7.5
Apr.	11, 1959	6.3	Dec.	27	8.4	Feb.	28	8.7
Dec.	23	8.1	Feb.	1, 1962	8.1	Mar.	25	8.9
Apr.	9, 1960	5.9	Mar.	5	4.4	Apr.	25	8.9
Jan.	6, 1961	9.3	Apr.	2	1.1	May	28	8.8
Feb.	28	9.1	Apr.	30	1.4	July	1	9.5
Mar.	22	8.8	May	28	3.9	July	31	9.9
Apr.	25	9.8	July	6	5.9	Aug.	28	10.0
May	24	10.1	July	31	7.9	Sept.	24	8.3

(C-36-3)18bdc-1. Records available 1939, 1961-62

Aug.	28, 1961	- 2.6	Nov.	28, 1961	- 1.7	Mar.	5, 1962	- 2.1
Sept.	25	1.3	Dec.	27	2.3	Apr.	2	.7
Oct.	30	1.1	Feb.	1, 1962	2.9			

(C-36-4)2dca-1. Records available 1961-63

Sept.	4, 1961	-41.8	May	28, 1962	-35.0	Feb.	28, 1963	-32.7
Sept.	25	40.3	July	6	34.7	Mar.	25	31.3
Oct.	30	41.5	July	31	35.5	Apr.	30	30.5
Nov.	28	42.3	Aug.	29	36.6	May	28	30.2
Dec.	27	42.9	Sept.	25	37.8	July	1	32.0
Feb.	1, 1962	43.3	Oct.	30	36.4	July	31	33.8
Mar.	5	42.8	Dec.	4	35.2	Aug.	28	35.6
Apr.	2	39.5	Dec.	27	34.5	Sept.	24	37.6
Apr.	30	36.6	Jan.	31, 1963	34.4			

(C-36-4)10bbd-1. Records available 1957, 1959-63

Dec.	20, 1957	-59.8	May	24, 1961	-61.7	May	28, 1962	-62.2
Apr.	11, 1959	60.2	July	5	61.7	July	6	62.4
Dec.	23	60.9	July	27	61.8	July	31	62.5
Apr.	9, 1960	60.8	Aug.	23	61.7	Aug.	29	62.3
Jan.	6, 1961	61.3	Sept.	25	61.9	Sept.	25	62.5
Feb.	28	61.7	Oct.	30	61.8	Oct.	30	62.7
Mar.	22	61.7	Nov.	28	62.1	Dec.	4	62.7
Apr.	25	61.7	Apr.	30, 1962	62.4			

(C-36-4)34bda-3. Equipped with automatic water-level recording gage, March 2, 1957. Water levels reported after this date are at noon, from recorder graphs. Records available 1957-63

Mar.	2, 1957	- 6.5	Mar.	31, 1959	- 3.3	July	28, 1961	- 6.5*
Mar.	12	6.7	Apr.	23	3.4	Aug.	28	6.7
Apr.	29	6.1	May	31	3.2	Sept.	26	5.1*
May	27	6.6*	June	30	2.8	Oct.	12	5.0*
June	30	9.6	July	31	2.5	Nov.	24	4.8*
July	31	12.5	Aug.	31	2.0	Jan.	3, 1962	4.7*
Aug.	31	13.4	Sept.	30	2.3	Apr.	18	2.0*
Sept.	30	13.8	Apr.	27, 1960	4.0	May	4	3.2*
Oct.	29	11.7	May	31	4.2	June	5	3.5*
Nov.	27	9.1	June	30	4.3	June	30	2.5*
Dec.	5	8.4	July	31	4.3	Aug.	2	2.7*
Jan.	3, 1958	7.3	Aug.	31	4.3	Aug.	31	2.8*
Mar.	3	7.1*	Sept.	30	4.2	Dec.	3	2.7*
Apr.	22	1.3*	Oct.	31	4.2	Mar.	3, 1963	3.8*
June	30	2.5	Nov.	30	4.3	Apr.	2	3.5*
July	31	2.6	Dec.	31	4.3	Apr.	25	3.8
Aug.	31	2.5	Jan.	31, 1961	4.4	May	31	4.4
Sept.	30	2.4	Feb.	28	4.4	June	30	4.9
Oct.	31	2.6	Mar.	31	4.3	July	31	5.5
Nov.	30	2.5	Apr.	30	4.3	Aug.	31	3.4
Dec.	9	2.9*	May	31	4.5	Sept.	24	3.2
Mar.	12, 1959	2.9*	June	28	6.4*			

Table 3.--Water levels in observation wells in the upper Sevier River basin - Continued

Grass Valley

(C-26-1)12abd-1. Records available 1961-63

Sept. 13, 1961	-13.4	June 1, 1962	- 9.7	Mar. 1, 1963	-15.9
Sept. 27	14.1	July 5	13.4	Mar. 26	17.3
Oct. 31	13.6	July 26	14.3	Apr. 30	12.3
Nov. 28	14.8	Aug. 31	15.2	May 27	13.7
Dec. 28	16.3	Sept. 26	16.2	June 28	15.6
Feb. 2, 1962	17.6	Oct. 31	16.2	July 29	17.0
Mar. 6	17.3	Dec. 5	12.7	Aug. 29	15.7
Mar. 30	17.2	Dec. 27	15.5	Sept. 23	16.9
May 1	13.2	Jan. 29, 1963	17.2		

(C-26-1)12dbc-1. Records available 1961-63

Sept. 13, 1961	+ 3.1	June 1, 1962	+ 3.0	Mar. 1, 1963	+ 2.2
Sept. 27	3.3	July 5	2.7	Mar. 26	2.3
Oct. 31	2.8	July 26	2.4	Apr. 30	2.6
Nov. 28	2.8	Aug. 31	2.3	May 27	2.1
Dec. 28	2.5	Sept. 26	2.0	June 28	2.0
Feb. 2, 1962	2.3	Oct. 31	2.2	July 29	1.5
Mar. 6	2.7	Dec. 5	2.4	Aug. 29	1.9
Mar. 30	2.5	Dec. 27	2.2	Sept. 23	2.1
May 1	2.8	Jan. 29, 1963	1.9		

(C-26-1)23ddb-1. Records available 1936-50, 1958-63

Mar. 11, 1958	+12.4	Nov. 1, 1960	+12.2	June 1, 1962	+11.9
May 8	12.3	Jan. 6, 1961	11.8	July 5	13.5
July 7	13.8	Feb. 24	11.3	July 26	14.2
Sept. 5	11.8	Mar. 20	12.2	Aug. 31	13.0
Nov. 7	12.2	Apr. 21	12.4	Sept. 26	12.2
Jan. 5, 1959	10.5	May 23	12.0	Oct. 31	12.1
Mar. 2	11.1	July 3	13.1	Dec. 5	11.1
May 1	11.2	July 27	12.8	Dec. 27	11.5
May 13	11.5	Aug. 25	12.7	Jan. 29, 1963	11.4
July 2	15.1	Sept. 27	12.6	Mar. 1	11.1
Sept. 2	14.0	Oct. 31	12.6	Mar. 26	11.1
Nov. 2	13.8	Nov. 28	12.1	Apr. 30	10.6
Jan. 6, 1960	12.4	Dec. 28	12.4	May 27	10.8
Mar. 24	11.6	Feb. 2, 1962	12.3	June 28	11.1
May 11	11.5	Mar. 6	12.2	July 29	10.8
July 12	13.2	Mar. 30	12.1	Aug. 29	10.5
Sept. 16	12.9	May 1	11.8	Sept. 23	10.5

(C-26-1)25acc-1. Records available 1935-55, 1958-63

Mar. 11, 1958	+17.1	Jan. 6, 1961	+16.5	July 5, 1962	+16.1
May 8	16.5	Feb. 24	16.4	July 26	16.1
July 7	16.0	Mar. 20	16.8	Aug. 31	16.1
Sept. 5	16.0	Apr. 21	16.9	Sept. 26	15.5
Nov. 7	15.5	May 23	15.9	Oct. 31	15.7
Jan. 5, 1959	14.5	July 3	16.2	Dec. 5	15.4
Mar. 2	16.0	July 27	15.9	Dec. 27	15.6
May 1	16.2	Aug. 25	16.2	Jan. 29, 1963	15.6
July 2	17.7	Sept. 27	16.4	Mar. 1	15.1
Sept. 2	18.0	Oct. 31	16.4	Mar. 26	15.4
Nov. 2	17.8	Nov. 28	16.4	Apr. 30	15.2
Jan. 6, 1960	16.6	Dec. 28	16.4	May 27	15.2
Mar. 24	16.5	Feb. 2, 1962	16.6	June 28	15.3
May 11	15.5	Mar. 6	16.2	July 29	15.0
July 12	16.2	Mar. 30	15.9	Aug. 29	15.3
Sept. 16	16.5	May 1	15.9	Sept. 23	14.9
Nov. 1	16.5	June 1	16.4		

(C-26-1)35dcb-2. Records available 1962-63

Aug. 31, 1962	+17.6	Dec. 5, 1962	+16.4	Mar. 1, 1963	+15.7
Sept. 25	16.8	Dec. 27	16.5	Mar. 26	15.3
Oct. 31	17.1	Jan. 29, 1963	16.2		

(C-27-1)1cbb-1. Records available 1961-63

Dec. 28, 1961	+ 8.4	Aug. 31, 1962	+11.0	Mar. 26, 1963	+10.5
Feb. 2, 1962	9.1	Sept. 25	10.4	Apr. 30	10.0
Mar. 6	8.9	Oct. 31	10.6	May 27	9.6
Mar. 30	8.9	Dec. 5	11.7	June 28	8.4
May 1	8.6	Dec. 27	10.1	July 29	8.7
June 1	8.6	Jan. 29, 1963	10.3	Aug. 29	9.2
July 5	11.8	Mar. 1	10.2	Sept. 23	9.5
July 26	12.5				

(C-27-1)2bca-1. Records available 1958-62

May 8, 1958	+ 8.8	July 12, 1960	+ 8.2	Oct. 31, 1961	+10.7
July 7	8.8	Sept. 16	8.4	Nov. 28	10.4
Sept. 5	6.6	Nov. 1	8.7	Dec. 28	10.9
Nov. 7	13.0	Apr. 21, 1961	9.1	Feb. 2, 1962	11.0
May 1, 1959	7.7	May 23	8.1	Mar. 6	10.7
July 2	9.6	July 3	8.5	Mar. 30	8.6
Sept. 2	9.6	July 27	9.0	May 1	8.3
Nov. 2	9.6	Aug. 25	8.9	June 1	9.0
May 11, 1960	7.5	Sept. 27	10.7		

(C-27-1)2bdb-1. Records available 1961-63

July 3, 1961	+ 7.1	Nov. 28, 1961	+ 9.6	May 1, 1962	+ 7.3
July 27	7.9	Dec. 28	9.6	June 1	7.4
Aug. 25	7.7	Feb. 2, 1962	9.7	July 5	9.4
Sept. 27	9.0	Mar. 6	9.6	July 26	8.3
Oct. 31	9.4	Mar. 30	7.4	Aug. 31	7.4

(C-27-1)2bdb-1 - Continued

Sept. 25, 1962	+ 7.2	Mar. 1, 1963	+ 7.3	June 28, 1963	+ 7.2
Oct. 31	7.1	Mar. 26	7.6	July 29	7.7
Dec. 5	7.1	Apr. 30	7.3	Aug. 29	7.4
Dec. 27	7.2	May 27	7.4	Sept. 23	7.4
Jan. 29, 1963	7.1				

(C-27-1)15cbb-1. Records available 1938-42, 1962-63

Sept. 14, 1962	-10.7	Jan. 29, 1963	-13.7	May 27, 1963	-12.4
Oct. 31	10.5	Mar. 1	12.6	June 28	13.2
Dec. 4	12.6	Mar. 26	12.5	July 29	14.2
Dec. 27	12.8	Apr. 30	11.6		

(C-27-1)27abc-2. Records available 1937-53, 1955, 1958-63

Mar. 11, 1958	+ 2.6	Jan. 6, 1961	+ 1.4	July 5, 1962	+ 2.0
May 8	2.5	Feb. 24	1.6	July 26	2.0
July 7	2.7	Mar. 20	1.7	Aug. 29	2.0
Sept. 5	3.1	Apr. 21	1.8	Sept. 25	2.2
Nov. 7	3.2	May 23	1.7	Oct. 31	2.2
Jan. 5, 1959	3.4	July 3	1.4	Dec. 4	2.3
Mar. 2	3.2	July 27	1.4	Dec. 27	2.3
May 1	3.2	Aug. 25	1.5	Jan. 29, 1963	2.3
July 2	2.7	Sept. 27	1.7	Mar. 1	2.3
Sept. 2	2.2	Oct. 31	1.8	Mar. 26	2.2
Nov. 2	2.4	Nov. 28	1.8	Apr. 30	2.3
Jan. 6, 1960	1.7	Dec. 28	1.8	May 27	2.0
Mar. 24	1.8	Feb. 2, 1962	1.8	June 28	1.8
May 11	1.6	Mar. 6	1.8	July 29	1.6
July 12	1.2	Mar. 30	1.7	Aug. 29	1.6
Sept. 16	1.5	May 1	1.7	Sept. 23	1.6
Nov. 1	1.5	June 1	1.9		

(C-27-1)28ccb-1. Records available 1962-63

Sept. 18, 1962	-14.0	Feb. 28, 1963	-15.1	June 28, 1963	-11.2
Oct. 31	15.3	Mar. 26	14.7	July 29	17.8
Dec. 4	16.8	Apr. 30	12.5	Aug. 29	18.3
Dec. 27	16.3	May 27	12.6	Sept. 23	20.4
Jan. 29, 1963	16.1				

(C-28-1)4acb-1. Records available 1962-63

Sept. 18, 1962	+ 6.5	Feb. 28, 1963	+ 7.7	June 28, 1963	+ 5.9
Oct. 31	6.3	Mar. 26	7.8	July 29	8.2
Dec. 4	7.6	Apr. 30	7.2	Aug. 29	8.2
Dec. 27	7.5	May 27	6.8	Sept. 23	8.2
Jan. 29, 1963	7.2				

(C-29-2)35bad-1. Records available 1961-63

Sept. 14, 1961	-21.1	June 7, 1962	-17.5	Feb. 28, 1963	-20.0
Sept. 27	20.8	July 5	17.8	Mar. 26	20.2
Oct. 31	19.2	July 26	18.3	Apr. 30	18.5
Nov. 28	19.1	Aug. 29	19.1	May 27	18.3
Dec. 28	19.8	Sept. 25	19.6	June 28	19.0
Feb. 2, 1962	20.4	Oct. 31	19.8	July 29	19.9
Mar. 6	20.8	Dec. 4	18.9	Aug. 28	20.3
Mar. 30	21.2	Dec. 27	19.1	Sept. 23	20.5
Apr. 30	19.5	Jan. 29, 1963	19.7		

(D-25-1)8ccd-1. Records available 1961-62

Aug. 18, 1961	-15.4	Dec. 28, 1961	-15.5	May 1, 1962	-14.7
Sept. 27	15.5	Feb. 2, 1962	15.5	June 1	15.3
Oct. 31	15.3	Mar. 6	15.5	July 5	15.2
Nov. 28	15.4	Mar. 30	14.8	July 26	15.2

(D-25-1)19add-1. Records available 1961-62

Aug. 18, 1961	+ 4.6	Mar. 6, 1962	+ 4.6	July 26, 1962	+ 4.9
Sept. 27	4.7	Mar. 30	4.4	Aug. 31	4.6
Oct. 31	4.2	May 1	4.9	Sept. 26	4.5
Nov. 28	4.6	June 1	4.9	Oct. 31	4.4
Dec. 28	4.5	July 5	4.7	Dec. 5	4.4
Feb. 2, 1962	4.8				

(D-25-1)31cbd-1. Records available 1936-50, 1958-63

Mar. 11, 1958	+ 3.2	Jan. 6, 1961	+ 1.7	July 5, 1962	+ 2.9
May 8	3.0	Feb. 24	2.1	July 26	2.4
July 7	2.7	Mar. 20	2.2	Aug. 31	1.3
Sept. 5	1.9	Apr. 21	2.7	Sept. 26	1.8
Nov. 7	2.1	May 23	2.8	Oct. 31	1.9
Jan. 5, 1959	2.2	July 3	2.7	Dec. 5	2.1
Mar. 2	2.5	July 27	1.2	Dec. 27	2.0
May 1	2.8	Aug. 25	1.6	Jan. 29, 1963	1.6
July 2	1.3	Sept. 27	2.1	Mar. 1	2.2
Sept. 2	.9	Oct. 31	2.0	Mar. 26	2.2
Nov. 2	1.6	Nov. 28	2.2	Apr. 30	2.5
Jan. 6, 1960	1.9	Dec. 28	2.4	May 27	2.2
Mar. 24	2.7	Feb. 2, 1962	2.3	June 28	1.7
May 11	3.2	Mar. 6	2.7	July 29	1.2
July 12	2.0	Mar. 30	3.1	Aug. 29	1.3
Sept. 16	1.0	May 1	3.2	Sept. 23	1.5
Nov. 1	1.6	June 1	3.5		

Table 4.--Logs of selected wells and test holes in the upper Sevier River basin

Stratigraphy by G. B. Robinson, Jr.
Rock units penetrated in wells and test holes are: Recent and Pleistocene deposits undifferentiated; the Sevier River(?) Formation (lower Pleistocene or upper Pliocene); Tertiary volcanic rock; Brian Head and Wasatch Formations undifferentiated (Miocene? and Eocene); Upper Cretaceous rocks.
Altitudes are in feet above sea level for the land surface at the well.
Thickness in feet.
Depth in feet below the land surface.

Drillers' logs

Panguitch Valley

	Thickness	Depth
(C-32-5)26aca-2. Log by B. B. Gardner. Alt. 6,360 ft.		
Recent and Pleistocene deposits:		
Loam, sandy	1	1
Sand, dirt, and boulders	17	18
Sand; small amount of water	27	45
Clay, sandy	27	72
Sand; small amount of water	9	81
Gravel; water	7	88
(C-33-5)3bda-1. Log by C. W. Anderson. Alt. 6,409 ft.		
Recent and Pleistocene deposits:		
Top soil	1	1
Gravel and sand	10	11
Clay	6	17
Gravel	7	24
Muck	20	44
Clay	10	54
Sand; water	6	60
Gravel; water	6	66
(C-33-5)4ddd-1. Log by B. B. Gardner. Alt. 6,470 ft.		
Recent and Pleistocene deposits:		
Boulders and gravel	30	30
Hardpan	13	43
Clay	7	50
Boulders and gravel	23	73
Sand, gravel; water	10	83
(C-33-5)10cdd-1. Log by B. B. Gardner. Alt. 6,455 ft.		
Recent and Pleistocene deposits:		
Clay, sandy	55	55
Sand; water	38	93
Gravel; water	13	106
Clay, sandy	5	111
(C-33-5)15cab-1. Log by B. B. Gardner. Alt. 6,470 ft.		
Recent and Pleistocene deposits:		
Dug well		25
Sand; water	65	90
Gravel; water	8	98
Clay, sandy	20	118
Clay, blue	37	155
Clay, blue, with small strata of sand; water	60	215
Clay, brown, sandy	85	300
Clay, sandy	158	458
(C-33-5)28acb-2. Log by R. L. Halterman. Alt. 6,480 ft.		
Recent and Pleistocene deposits:		
Clay and gravel	12	12
Sand and gravel	8	20
Clay and gravel	16	36
Gravel	8	44
(C-33-5)28bcd-1. Log by R. L. Halterman. Alt. 6,508 ft.		
Recent and Pleistocene deposits:		
Clay and gravel	40	40
Sand and gravel	20	60
Clay and gravel	34	94
Sand and gravel	13	107
Clay and gravel	21	128
Gravel	8	136
Clay	22	158
Sand and gravel	16	174
Clay	9	183
Gravel	7	190
(C-33-5)29bdd-1. Log by B. B. Gardner. Alt. 6,570 ft.		
Recent and Pleistocene deposits:		
Existing well		65
Gravel; water	15	80
Clay	22	102
Gravel; water	12	114
(C-34-5)2cbc-1. Log by B. B. Gardner. Alt. 6,617 ft.		
Recent and Pleistocene deposits:		
Dug well		64
Clay, sandy, small gravel	11	75
Gravel, small; water	35	110
Sevier River(?) Formation:		
Clay, white	7	117
Clay, sandy, gravel	8	125
Clay, brown	8	133
Clay, sandy, gravel	7	140
Clay, blue	11	151
Sand; water	15	166
Gravel; water	5	171
(C-34-5)3ddb-1. Log by W. J. Hill. Alt. 6,595 ft.		
Recent and Pleistocene deposits:		
Dug well		50
Sand, some small gravel, traces of clay; water	112	162
Gravel; water	7	169
(C-34-5)5ddc-2. Log by B. B. Gardner. Alt. 6,545 ft.		
Recent and Pleistocene deposits:		
Top soil	1	1
Boulders and dirt, sandy	16	17
Small boulders and dirt, sandy	14	31
Sand; water	6	37
Sevier River(?) Formation:		
Clay, sandy	46	83
Sand; water	3	86
Clay, sandy	8	94
Sand; water	21	115
Gravel; water	7	122
(C-34-5)8adb-2. Log by R. L. Halterman. Alt. 6,540 ft.		
Recent and Pleistocene deposits:		
Clay and gravel	16	16
Sand and gravel	8	24
Sevier River(?) Formation:		
Clay and gravel	28	52
Clay	18	70
Clay and gravel	14	84
Sand and gravel	12	96
Clay and gravel	18	114
Clay	24	138
Sand and gravel	8	146
Clay	7	153
Gravel	13	166
(C-34-5)8dcd-1. Log by W. J. Hill. Alt. 6,533 ft.		
Recent and Pleistocene deposits:		
Top soil, sandy	7	7
Sand and rocks; water	14	21
Sand, gravel; water	25	46
Clay, sandy; no water	9	55
(C-34-5)16dca-1. Log by B. B. Gardner. Alt. 6,582 ft.		
Recent and Pleistocene deposits:		
Loam, sandy	1	1
Dirt, sandy	36	37
Sand; water	48	85
Sevier River(?) Formation:		
Sand with traces of clay and small gravel; small amount of water	107	192
Gravel; water	5	197
(C-35-5)24ccb-1. Log by R. L. Halterman. Alt. 6,740 ft.		
Recent and Pleistocene deposits:		
Gravel	20	20
Sevier River(?) Formation or Brian Head(?) and Wasatch(?) Formations:		
Clay	145	165
Sand and gravel	3	168
Clay	33	201
Sand	5	206
Clay	52	258
Sand and gravel	6	264
Clay	16	280
Sand and gravel	16	296
Clay	49	345
Gravel	5	350
(C-36-5)29dcd-1. Log by W. D. Fitzgerald. Alt. 6,940 ft.		
Sevier River(?) Formation or Brian Head(?) and Wasatch(?) Formations:		
Hardpan with lava gravel	140	140
Clay, yellow	10	150
Lava-sandstone, dark	15	165
Sandstone, light	21	186
Deepened to 216 ft in 1949, no log available.		

Circle Valley

	Thickness	Depth
(C-30-3)16bbb-1. Log by B. B. Gardner. Log interpreted by Carpenter and Young[1]. Alt. 6,000 ft.		
Recent and Pleistocene deposits:		
Soil, sandy	8	8
Hardpan	16	24
Sand and gravel	8	32
Tertiary volcanic rocks:		
Clay, sandy	368	400
Tertiary sedimentary rocks:		
Gravel; water-bearing	7	407
(C-30-3)29bbb-1. Log by Earl Smith. Alt. 6,040 ft.		
Recent and Pleistocene deposits:		
Top soil	11	11
Hardpan	3	14
Gravel	8	22
(C-30-3)30baa-1. Log by B. B. Gardner. Alt. 6,038 ft.		
Recent and Pleistocene deposits:		
Top soil	12	12
Boulders, hardpan	13	25
(C-30-3)30baa-1 - Continued.		
Sand, gravel; little water	70	95
Hardpan	30	125
Clay	42	167
Gravel; water	26	193
(C-30-4)14abd-1. Log by Harold Pearson. Alt. 6,040 ft.		
Recent and Pleistocene deposits:		
Top soil	5	5
Sand and gravel	24	29

Table 4.--Logs of selected wells and test holes in the upper Sevier River basin - Continued

Drillers' logs - Continued

Circle Valley - Continued

	Thickness	Depth
(C-30-4)25aad-1. Log by B. B. Gardner. Alt. 6,048 ft.		
Recent and Pleistocene deposits:		
Top soil	8	8
Hardpan	22	30
Gravel; water	24	54
(C-30-4)25bcc-1. Log by Coxe and Clarkson. Alt. 6,065 ft.		
Recent and Pleistocene deposits:		
Sand and gravel, coarse	40	40
Sand; water	10	50
Clay and gravel	28	78
Sand, gravel; water	16	94
Gravel, coarse	6	100
Sand, gravel; water	33	133
(C-30-4)26dcb-1. Log by B. B. Gardner. Alt. 6,080 ft.		
Recent and Pleistocene deposits:		
Top soil	3	3
Boulders and gravel	37	40
Gravel; water	34	74
Sand; water	6	80
Gravel; water	13	93
Hardpan	11	104
Gravel; water	20	124
Hardpan	56	180
Clay	43	223
Gravel; water	4	227
Clay	13	240
Sand	5	245
Sand, gravel; water	7	252
(C-30-4)26dcb-1 - Continued.		
Sand	23	275
Sand, gravel; water	35	310
Clay	11	321
Sand, red; gravel; water	4	325
(C-30-4)34ddc-2. Log by S. Wilson. Alt. 6,110 ft.		
Recent and Pleistocene deposits:		
Gravel, coarse	60	60
Gravel, fine	15	75
Sand, fine; water	5	80

East Fork Valley

	Thickness	Depth
(C-31-2)14ccc-1. Log by B. B. Gardner. Alt. 6,460 ft.		
Recent and Pleistocene deposits:		
Gravel and boulders	33	33
Sand, gravel; water	5	38
Brian Head(?) and Wasatch(?) Formations:		
Hardpan	47	85
Gravel; water	17	102
(C-31-2)23bcd-1. Log by B. B. Gardner. Alt. 6,510 ft.		
Recent and Pleistocene deposits:		
Top soil, sandy	0.3	0.3
Dirt, sandy, and cobble rock	59.7	60
Brian Head(?) and Wasatch(?) Formations:		
Conglomerate	17	77
Rocks, gravel; water	13	90
(C-31-2)23ccd-1. Log by C. W. Anderson. Alt. 6,496 ft.		
Recent and Pleistocene deposits:		
Top soil	2	2
Boulders	22	24
Brian Head(?) and Wasatch(?) Formations:		
Conglomerate	35	59
Gravel; water	.5	59.5
(C-31-2)23cda-1. Log by C. W. Anderson. Alt. 6,530 ft.		
Recent and Pleistocene deposits:		
Top soil	2	2
Boulders	55	57
Brian Head(?) and Wasatch(?) Formations:		
Conglomerate	40	97
Gravel	1	98
(C-31-2)24cbc-1. Log by B. B. Gardner.		
Recent and Pleistocene deposits:		
Soil, sandy, and small rocks	5	5
Dirt, sand, and large rocks	48	53
Brian Head(?) and Wasatch(?) Formations:		
Clay, sandy, and small rocks	32	85
Sand, rocks; water	18	103
Lava ledge; water	11	114
(C-31-2)24cdb-1. Log by Sharp Welding Co.		
Recent and Pleistocene deposits:		
Rock and a little clay	47	47
Brian Head(?) and Wasatch(?) Formations:		
Clay and a few rocks	58	105
Rock; conglomerate with some clay	48	153
(C-31-2)24dac-1. Log by B. B. Gardner.		
Recent and Pleistocene deposits:		
Top soil, sandy	0.7	0.7
Dirt, sandy, and large rocks	54.3	55
Brian Head(?) and Wasatch(?) Formations:		
Conglomerate of sandy clay and rocks	105	160
Lava rock, water	20	180
(C-31-2)25aab-1. Log by C. W. Anderson.		
Recent and Pleistocene deposits:		
Top soil	3	3
Boulders	21	24
Brian Head(?) and Wasatch(?) Formations:		
Hardpan	100	124
Gravel	1	125
(C-31-2)25aba-1. Log by C. W. Anderson. Alt. 6,600 ft.		
Recent and Pleistocene deposits:		
Top soil	1	1
Boulders	17	18
Brian Head(?) and Wasatch(?) Formations:		
Clay, sand, gravel	10	28
Clay	10	38
Clay, sand, gravel	96	134
(C-31-2)26cdd-1. Log by C. W. Anderson. Alt. 6,500 ft.		
Recent and Pleistocene deposits:		
Top soil	2	2
Clay	39	41
Brian Head(?) and Wasatch(?) Formations:		
Sandstone	13	54
(C-31-2)35bda-1. Log by C. W. Anderson. Alt. 6,510 ft.		
Recent and Pleistocene deposits:		
Soil, sandy	10	10
Clay, sandy	19	29
Brian Head(?) and Wasatch(?) Formations:		
Conglomerate	33	62
Gravel	1	63
(C-32-2)2dda-1. Log by Sharp Welding Co. Alt. 6,590 ft.		
Recent and Pleistocene deposits:		
Top soil and rock	9	9
Clay	12	21
Rock and clay	10	31
Gravel and sand	6	37
Sand	9	46
Clay	8	54
Rock and sand	9	63
Gravel, river	3	66
(C-34-2)22dab-1. Log by C. W. Anderson. Alt. 7,620 ft.		
Recent and Pleistocene deposits:		
Top soil	8	8
Brian Head and Wasatch Formations:		
Conglomerate	46	54
Clay, red, and small sandstone ledges	224	278
Sandstone, red, porous; water	61	339
(C-35-4)34dcd-1.		
Recent and Pleistocene deposits:		
Clay, sandy	10	10
Brian Head and Wasatch Formations:		
Sandrock, red	160	170
(C-36-3)7abd-1. Log by W. J. Hill. Alt. 7,600 ft.		
Recent and Pleistocene deposits:		
Top soil, sandy	1	1
Subsoil, sandy	3	4
(C-36-3)7abd-1 - Continued.		
Brian Head and Wasatch Formations:		
Hardpan of clay and gravel	5	9
Clay, yellow	22	31
Upper Cretaceous rocks:		
Clay, blue	44	75
Sandstone, gray; water	30	105
Shale, blue-gray	41	146
Shale, gray	62	208
(C-36-3)7bbc-1. Log by B. B. Gardner and Mack Exploration Co. Alt. 7,606 ft.		
Recent and Pleistocene deposits:		
Conglomerate and hardpan	12	12
Clay, yellow	4	16
Clay, light brown	7	23
Clay, blue-gray	11	34
Clay, gray-brown	9	43
Clay, sandy, light-brown	5	48
Clay, sandy, light	3	51
Upper Cretaceous rocks:		
Sandstone, gray; water	40	91
Shale, gray	8	99
Shale, sandy, blue	26	125
Shale, sandy, blue, hard	2	127
Shale, sandy, blue	9	136
Shale, sandy, blue, hard	2	138
Shale, sandy, blue, soft	37	175
Shale, carbonaceous, hardpan	25	200
Shale, sandy, dark-gray	30	230
(C-36-3)7bbd-1. Log by J. T. Woodhouse. Alt. 7,604 ft.		
Recent and Pleistocene deposits:		
Top soil	2	2
Gravel, cemented; rocks, large	33	35
Brian Head and Wasatch Formations:		
Rock, limestone	8	43
Clay, sandy, yellow	12	55
Upper Cretaceous rocks:		
Clay, blue, and gravel	25	80
Water-bearing formation	5	85
Clay, blue, with limestone ribs	15	100
Sand, water-bearing	2	102
Clay, blue, with limestone ribs	29	131
(C-36-3)18acc-1. Log by C. W. Anderson. Alt. 7,640 ft.		
Recent and Pleistocene deposits:		
Top soil	3	3
Brian Head and Wasatch Formations:		
Clay, red, hard	57	60
(C-36-3)18bdd-1. Log by C. W. Anderson. Alt. 7,650 ft.		
Brian Head and Wasatch Formations:		
Clay, red, hard	210	210
(C-36-3)18bdd-2. Log by Perry Bros. Drilling Co. Alt. 7,650 ft.		
Recent and Pleistocene deposits:		
Top soil	5	5
Brian Head and Wasatch Formations:		
Water-bearing formation	10	15
Limestone, pink	70	85
Shale, red	15	100

Table 4.--Logs of selected wells and test holes in the upper Sevier River basin - Continued

Drillers' logs - Continued

East Fork Valley - Continued

	Thickness	Depth
(C-36-4)2dca-1. Log by B. B. Gardner. Alt. 7,620 ft.		
Recent and Pleistocene deposits:		
Clay	20	20
Sand; little water	15	35
Clay	25	60
Gravel; water	6	66
Upper Cretaceous rocks:		
Shale, light gray; no water	244	310
(C-36-4)10bbd-1. Log by R. L. Halterman. Alt. 7,650 ft.		
Upper Cretaceous rocks:		
Sand rock	70	70
Rock formation, porous	6	76
Sand rock	40	116
Rock formation, porous	6	122
Sand rock	8	130
Rock, porous	6	136
(C-36-4)15adb-1. Log by P. C. Bradshaw.		
Recent and Pleistocene deposits:		
Clay, sandy, gravel	20	20
Upper Cretaceous rocks:		
Clay, sandy, gray	15	35
Clay, sandy, gray; water	15	50
Clay, sandy, gray	60	110
Clay, sandy, gray, very hard	12	122
Shale, sandy, brown; caving	3	125
Clay, sandy, gray	82	207
(C-36-4)34bda-1. Log by R. L. Halterman. Alt. 7,772 ft.		
Recent and Pleistocene deposits:		
Clay	12	12
Gravel	3	15
Porous formation	9	24
Tight formation	6	30
Brian Head and Wasatch Formations:		
Dry, chalky formation	50	80
(C-36-4)34bda-2. Log by R. L. Halterman. Alt. 7,768 ft.		
Recent and Pleistocene deposits:		
Clay	6	6
Sand and gravel	4	10
Clay	2	12
Gravel	2	14
Clay	4	18
Gravel and sand	8	26
Clay	4	30
Brian Head and Wasatch Formations:		
Rock	-	30+
(C-36-4)36acc-1. Log by J. G. Lewis. Alt. 7,900 ft.		
Recent and Pleistocene deposits:		
Mixed clay, dirt, and rock	22	22
Brian Head and Wasatch Formations:		
Rock, fractured	5	27
Rock	13	40
Rock, fractured	10	50
Rock	30	80

Grass Valley

	Thickness	Depth
(C-26-1)24bba-1. Log by Sharp Welding Co.		
Recent and Pleistocene deposits:		
Sand and clay	5	5
Clay	10	15
Sand; water	41	56
Clay with thin streaks of sand; water	85	141
Clay	54	195
Sand, coarse; water	25	220
Gravel; water	1	221
(C-26-1)35dcb-2. Log by B. B. Gardner. Alt. 6,835 ft.		
Recent and Pleistocene deposits:		
Top soil	1	1
Clay	22	23
Gravel, boulders; water (non-flowing)	40	63
Clay	77	140
Gravel; water (flowing)	8	148
Clay	39	187
Gravel; water (flowing)	6	193
Clay	25	218
Gravel; water (flowing)	7	225
(C-27-1)1cbc-1. Log by B. B. Gardner. Alt. 6,809 ft.		
Recent and Pleistocene deposits:		
Top soil	5	5
Gravel and boulders; water (non-flowing)	54	59
Clay	86	145
Sand; water (flowing)	5	150
Clay	13	163
Sand; water (flowing)	6	169
Clay	101	270
Sand; water (flowing)	36	306
Clay	14	320
Sand; water (flowing)	20	340
Clay	10	350
Gravel; water (flowing)	10	360
Clay	4	364
Gravel; water (flowing)	16	380
Clay	7	387
Gravel; water (flowing)	12	399
(C-27-1)2abb-3. Log by B. B. Gardner. Alt. 6,830 ft.		
Recent and Pleistocene deposits:		
Top soil	5	5
Clay	7	12
Sand, gravel; water	3	15
Clay	86	101
Gravel; water (flowing)	8	109
Clay	21	130
Gravel; water (flowing)	9	139
Clay and sand, fine	38	177
Gravel; water (flowing)	13	190
Clay and sand	50	240
Sand, gravel; water (flowing)	12	252
Clay and sand	24	276
Gravel; water (flowing)	7	283
(C-27-1)2bad-4. Log by C. W. Anderson. Alt. 6,835 ft.		
Recent and Pleistocene deposits:		
Topsoil; clay, sandy	65	65
Gravel, sandy	37	102
Clay, blue	200	302
Sand-clay strata	18	320
(C-27-1)2cab-4. Log by B. B. Gardner. Alt. 6,825 ft.		
Recent and Pleistocene deposits:		
Top soil	1	1
Rock and gravel	22	23
Gravel; water	4	27
Clay	47	74
Sand, gravel; water (flowing)	31	105
Clay	157	262
Gravel; water (flowing)	4	266
Clay	85	351
Gravel; water (flowing)	6	357
Clay	23	380
Gravel; water (flowing)	7	387
Clay	48	435
(C-27-1)3ddb-1. Log by Louis Hatch. Alt. 6,810 ft.		
Recent and Pleistocene deposits:		
Soil	3	3
Cobble rock	4	7
Clay	1	8
Gravel	5	13
Clay	1	14
Rock	4	18
Clay	5	23
Hardpan	2	25
Sand	7	32
Clay	19	51
Sand; water (flowing 1.5 gpm)	1	52
Clay	47	99
Sand	3	102
(C-27-1)10aaa-1. Log by Louis Hatch. Alt. 6,806 ft.		
Recent and Pleistocene deposits:		
Earth and cobble rock	8	8
Clay	2	10
Cobble rock and gravel	10	20
Clay	5	25
Gravel; water	7	32
Clay	5	37
Sand	1	38
Clay	17	55
Sand, coarse; water (0.5 gpm)	6	61
Clay	39	100
Sand; water (2 gpm)	3	103
Clay, with quicksand bars	162	265
(C-27-1)16dcc-1. Log by B. B. Gardner.		
Recent and Pleistocene deposits:		
Clay, sandy	8	8
Clay	10	18
Gravel; water	5	23
Clay	69	92
Sand, gravel; water	6	98
(C-27-1)20dca-1. Log by W. J. Hill.		
Recent and Pleistocene deposits:		
Top soil	1	1
Tertiary volcanic rock:		
Limestone ledge	48	49
Lava ledge	101	150
(C-27-1)21baa-1. Log by B. B. Gardner.		
Recent and Pleistocene deposits:		
Clay, sandy	10	10
Clay	76	86
(C-27-1)21baa-1 - Continued.		
Sand; little water	4	90
Clay	280	370
Gravel	10	380
Clay	135	515
Gravel; water	4	519
(C-27-1)29dba-1. Log by C. W. Anderson. Alt. 6,850 ft.		
Recent and Pleistocene deposits:		
Boulders	10	10
Hardpan	118	128
Conglomerate; water	27	155
(C-27-1)29ddd-1. Log by W. J. Hill. Alt. 6,827 ft.		
Recent and Pleistocene deposits:		
Dug well		30
Conglomerate of sand, gravel, and clay	13	43
Gravel; water	2	45
Conglomerate of sand, gravel, and clay	32	77
Clay, sandy	42	119
Sand; water	20	139
Sand, coarse; water	7	146
Clay, sandy; no water	3	149
(C-29-2)25cac-1. Log by C. W. Anderson. Alt. 6,415 ft.		
Recent and Pleistocene deposits:		
Soil	4	4
Clay	20	24
Sand and gravel	20	44
Clay	10	54
Sand and gravel	12	66
(C-29-2)35bad-1. Log by B. B. Gardner. Alt. 6,405 ft.		
Recent and Pleistocene deposits:		
Rocks, sand	15	15
Sand, boulders; water	45	60
Concrete hardpan	90	150
Sand, rocks; water	47	197
(C-29-2)35bdb-1. Log by C. W. Anderson. Alt. 6,410 ft.		
Recent and Pleistocene deposits:		
Top soil	2	2
Boulders	40	42
Sand, gravel, and conglomerate alternating	53	95
(D-25-1)8ccd-1. Log by B. B. Gardner.		
Recent and Pleistocene deposits:		
Loam, sandy	10	10
Clay, sandy	25	35
Sand, gravel; water	12	47
Clay	61	108
Sand; water	48	156
Clay, sandy	84	240
Hardpan	40	280
Gravel; water	30	310
(D-25-1)31dbb-1. Log by Rodney Cowley.		
Recent and Pleistocene deposits:		
Clay	11	11
Gravel	101	112

Table 4.--Logs of selected wells and test holes in the upper Sevier River basin - Continued

Test-hole logs
(U.S. Geological Survey)
(Log by U.S. Geological Survey)

Panguitch Valley

	Thickness	Depth
(C-32-5)35bab-1 (TH 1). Alt. 6,370 ft.		
Recent and Pleistocene deposits:		
Silt, gray, sandy and clayey	5	5
Gravel, very fine to very coarse, and very fine to very coarse sand; gravel, angular to rounded, volcanic-rock fragments; very coarse and coarse sand, respectively 90 and 50 percent angular volcanic-rock fragments, 10 and 50 percent angular to rounded quartz and feldspar; medium sand, angular to rounded, 75 percent quartz and feldspar, 25 percent volcanic-rock fragments; fine and very fine sand, respectively angular to rounded and angular to subrounded, 75 and 60 percent quartz and feldspar, 25 and 40 percent dark minerals	57	62
Silt, brown, sandy; contains very fine to fine, angular to rounded gravel	13	75
Gravel, very fine to very coarse, angular to rounded, volcanic-rock fragments	8	83
Silt, tan and brown, sandy and clayey; contains very coarse gravel and small cobbles of angular to subrounded volcanic-rock fragments between 92-94 ft.	12	95
Gravel, very fine to coarse, and silt in 6 to 12 in. thick beds at 2- to 4-ft intervals; gravel, angular to rounded, volcanic-rock fragments; silt, tan, yellow-tan, and light-brown, sandy and clayey	36	131
Silt, tan to light-brown, sandy and clayey; contains interspersed very fine to fine gravel, and beds of very fine to fine gravel, 3 to 4 ft thick, at 136, 148, 160, and 173 ft; also contains occasional zones of caliche(?)	42	173
Gravel, very fine to coarse, angular to subrounded, 90 percent volcanic-rock fragments, and 10 percent sandstone and limestone fragments	9	182
Silt, tan and brown, sandy and clayey; contains interspersed very fine to fine gravel	8	190
Brian Head(?) and Wasatch(?) Formations:		
Interbedded very fine to medium-grained sandstone, 2 to 3 ft thick, silty sand and very fine to fine gravel, 1 to 3 ft thick; sandstone and sand angular to subrounded, 80 percent quartz and plagioclase, 20 percent volcanic-rock fragments and dark minerals, poorly cemented by silica and calcium carbonate; gravel, angular to rounded, volcanic-rock fragments	50	240
Gravel, very fine to very coarse, with sandy, brown silt as matrix in intervals 240-248 and 252-256 ft; gravel, angular to subrounded, volcanic-rock fragments	16	256
Interbedded very fine to medium-grained sandstone, 2 to 3 ft thick, sand, and very fine to medium gravel, 1 to 4 ft thick; sandstone contains thin beds of light-gray to white clay and sandy clay between 380-405 and 420-430 ft; sandstone, black, angular to rounded, 75-90 percent dark minerals, 10-25 percent quartz and plagioclase, poorly to well cemented by silica and calcium carbonate; gravel, angular to subrounded, volcanic-rock fragments	199	455
Volcanic rock (tuff)	1	456
(C-33-5)13bdd-1 (TH 16). Alt. 6,660 ft.		
Recent and Pleistocene deposits:		
Sand, very fine to medium, and silt, light-tan, calcareous; sand, angular to subrounded, 95 percent quartz, 5 percent dark minerals and volcanic-rock fragments	4	4
Gravel, very fine to very coarse; contains very fine to very coarse sand between 4-120 ft, and cobbles between 16-17 ft, 90-100 ft, and 110-122 ft; gravel, subrounded, 90-100 percent volcanic-rock fragments, 0-10 percent limestone, and quartzite fragments; very coarse, coarse, and medium sand, subrounded, 75-99 percent volcanic-rock fragments, 1-25 percent quartz; fine and very fine sand, crystalline and angular to subrounded, 60-80 percent quartz, 10 percent dark minerals, and 10-30 percent volcanic-rock fragments	121	125
Gravel, coarse, and cobbles, composed of volcanic-rock fragments; contains very fine to very coarse sand	15	140
Gravel, very fine, and coarse to very coarse sand with some very fine to medium; predominantly coarse to very coarse gravel between 168-170 ft; contains several 1-ft thick beds of clayey silt between 175-180 ft; gravel and sand of approximately same description as in interval 4-125 ft above	45	185
Gravel, coarse to very coarse, with some fine; subangular to subrounded, volcanic-rock fragments	7	192
Sand, mainly coarse to very coarse, but some fine and medium; contains much silt in infrequent intervals, and some interspersed fine, subrounded gravel; also contains some coarse gravel interbeds at 212 ft, and between 260-275 ft; sand, angular to subrounded, 20-75 percent volcanic-rock fragments, 20-75 percent quartz grains, and about 5 percent other igneous-mineral grains	132	324
Gravel, very fine to fine, and medium to coarse sand, with some very fine and fine; contains few interbeds of pink-tan silty clay between 320-330 ft, and coarse gravel between 340-380 ft; gravel, subangular to		
(C-33-5)13bdd-1 (TH 16) - Continued.		
Recent and Pleistocene deposits - Continued:		
subrounded, 90-100 percent volcanic-rock fragments, 0-10 percent sedimentary-rock fragments; medium and coarse sand, angular to subrounded, 90 percent volcanic-rock fragments, 10 percent quartz grains and other igneous-mineral fragments; fine to very fine sand, respectively 60 and 90 percent quartz, 40 and 10 percent volcanic-rock fragments and other igneous minerals	56	380
Gravel, coarse, silty and sandy, volcanic-rock fragments	25	405
Sand, coarse to very coarse, and very fine gravel; contains some fine to medium sand, and interspersed coarse gravel; gravel, subangular to subrounded, volcanic-rock fragments; sand, 75 percent volcanic-rock fragments, 25 percent sedimentary-rock fragments, quartz, and other igneous minerals	14	419
Gravel, very fine to coarse, with fine to very coarse sand; contains few interbeds of pink-tan calcareous, clayey silt between 420-430 ft; approximately same lithologic description as in preceding intervals	53	472
Clay, pink to pink-tan, silty, partly sandy, non-calcareous	5	477
Gravel, fine to coarse 480-499 ft, coarse and contains cobbles 499-519 ft, very fine to fine 519-567 ft; contains yellow-tan to pink-tan silt and clayey silt to very fine sand, which increases in amount with depth and becomes interbeds between 529-567 ft; gravel subangular to subrounded, 95 percent volcanic-rock fragments, 5 percent chert and quartzite fragments	90	567
Silt to very fine sand, light pink-tan, slightly clayey; contains interspersed very coarse sand to very fine gravel composed of volcanic-rock fragments	12	579
Gravel, very fine to coarse, with few interbeds of yellow-tan, clayey silt to fine sand; gravel, angular to subrounded 95-100 percent volcanic-rock fragments, 0-5 percent chert, quartzite, and other sedimentary-rock fragments	39	618
Sand, mainly coarse to very coarse, but some fine and medium; contains interbed of coarse gravel at 634 ft, and silt interbeds between 640-658 ft; very coarse and coarse sand, subangular to subrounded, 95 percent volcanic-rock fragments, 5 percent sedimentary-rock fragments; fine to medium sand, subangular to subrounded, 75 percent volcanic-rock fragments, 24 percent quartz grains, and about 1 percent dark minerals	40	658
Gravel, coarse, and cobbles, composed of volcanic-rock fragments; contains coarse to very coarse sand-sized volcanic-rock fragments as described above	24	682
Sand, coarse to very coarse, and very fine gravel of same description as in interval 618-658 ft above; contains several interbeds of yellow-tan to pink-tan silt to fine sand which become predominant between 738-752 and between 758-767 ft; also contains some coarse gravel interbeds between 682-698 and between 718-738 ft	96	778
Gravel, very fine to coarse, interbedded with yellow-tan to pink-tan silt to fine sand; gravel predominates below 798 ft and has approximately the same description as in all intervals above	55	833
(C-33-5)14cbd-1 (TH 4). Alt. 6,555 ft.		
Recent and Pleistocene deposits:		
Gravel, very fine to very coarse, small cobbles, and very fine to very coarse sand; gravel, angular to rounded, volcanic-rock fragments; very coarse and coarse sand, respectively angular to rounded, and angular to subangular, 90 and 75 percent volcanic-rock fragments, 10 and 25 percent quartz; medium sand, angular to subangular, 60 percent quartz, 40 percent volcanic-rock fragments; fine and very fine sand, angular, 75 percent quartz, 25 percent dark minerals and volcanic-rock fragments	11	11
Silt, brown, sandy; contains very fine to medium, angular to subangular gravel	12	23
Gravel, very fine to very coarse, and very fine to very coarse sand; contains small cobbles at 26 ft and clayey silt between 29-30 and 52-53 ft; gravel, angular to subrounded, volcanic-rock fragments; very coarse and coarse sand, angular to subangular, volcanic-rock fragments; medium sand, angular to subangular, 75 percent volcanic-rock fragments, 25 percent quartz; fine and very fine sand, respectively angular, 60 and 50 percent quartz, 40 and 50 percent volcanic-rock fragments and dark minerals	35	58
Clay, dark-brown, silty and sandy	3	61
Gravel, very fine to very coarse, and coarse to very coarse sand; gravel and sand, angular to subrounded volcanic-rock fragments	16	77
Clay, brown, silty	2	79
Gravel, very fine to medium, and coarse to very coarse sand; contains brown, sandy silt in 1-ft beds at		

Table 4.--Logs of selected wells and test holes in the upper Sevier River basin - Continued

Test-hole logs - Continued

Panguitch Valley - Continued

	Thickness	Depth
(C-33-5)14cbd-1 (TH 4) - Continued.		
Recent and Pleistocene deposits - Continued:		
4- to 5-ft intervals; contains very coarse gravel with small cobbles between 93-94 ft; gravel, angular to subrounded, volcanic-rock fragments; sand, angular to subangular volcanic-rock fragments	37	116
Gravel, very fine to very coarse, in matrix of dark-brown sandy silt; gravel, angular to subangular, volcanic-rock fragments	22	138
Clay, dark-brown, silty and sandy	4	142
Gravel, very fine to very coarse, and medium to very coarse sand; gravel, angular to subrounded volcanic-rock fragments; sand, angular to subangular volcanic-rock fragments	19	161
Clay, brown, silty and sandy	24	185
Gravel, very fine to very coarse; contains brown, sandy silt; gravel, angular to subangular volcanic-rock fragments	20	205
Clay, brown, silty; contains interspersed very fine to coarse, angular to subrounded gravel	25	230
Gravel, very fine to very coarse, in brown, sandy silt matrix; gravel angular to subrounded, volcanic-rock fragments	20	250
Clay, brown, silty and sandy; contains interspersed very fine to medium gravel	43	293
Gravel, very fine to medium, angular to rounded volcanic-rock fragments	17	310
Silt, brown, sandy and clayey; contains interspersed very fine to medium gravel; between 330-350 ft silt is light-tan and clayey; sand and gravel increase in amount between 350-389 ft	79	389
Sand, very fine to very coarse, and very fine to fine gravel; very coarse and coarse sand, angular to subangular, volcanic-rock fragments; medium sand, angular to subangular, 90 percent volcanic-rock fragments, 10 percent quartz; fine and very fine sand, angular, 50 percent volcanic-rock fragments and dark minerals; 50 percent quartz	16	405
Silt, brown, sandy and clayey; contains 6- to 12-in. thick beds of sand and very fine gravel at 5- to 10-ft intervals	89	494
Sand, very fine to very coarse, and very fine gravel; very coarse and coarse sand, respectively angular to subrounded, and angular to subangular, volcanic-rock fragments, medium sand, angular to subangular, 75 percent volcanic-rock fragments, 25 percent quartz; fine and very fine sand, angular, 50 percent quartz, 50 percent volcanic-rock fragments; gravel, angular to subrounded, volcanic-rock fragments	16	510
Silt, light-brown, sandy; contains interspersed very fine to fine gravel	41	551
Gravel, very fine to very coarse, angular to subrounded, volcanic-rock fragments	3	554
Silt, tan, light-brown and brown, sandy and clayey; contains interspersed very fine to fine gravel; coarse to very coarse gravel at 573, 585, 590, 596-599, 621, and 632 ft; interval more consolidated than material above	83	637
(C-33-5)16add-1 (TH 3). Alt. 6,442 ft.		
Recent and Pleistocene deposits:		
Silt, dark-brown, sandy	3	3
Gravel, very fine to very coarse, small cobbles, and very fine to very coarse sand; gravel and cobbles, subangular to rounded volcanic-rock fragments, and between 30-93 ft contains about 1 percent limestone, quartzite, and sandstone fragments; very coarse and coarse sand, respectively angular to rounded, 100 and 90 percent volcanic-rock fragments, 0 and 10 percent quartz; medium sand, angular to rounded, 50 percent quartz, 50 percent volcanic-rock fragments; fine and very fine sand, respectively angular, 75 and 60 percent quartz, 25 and 40 percent volcanic-rock fragments	90	93
Silt, light-brown, clayey and sandy	7	100
Silt, light-brown, clayey and sandy; contains 1- to 6-in. beds of silty sand with very fine gravel at 3- to 5-ft intervals	55	155
Silt, brown, sandy; contains interspersed very fine to fine gravel, and 6- to 12-in. beds of very fine to medium gravel at 2- to 4-ft intervals; sand, medium to very coarse, angular to subangular volcanic-rock fragments	15	170
Brian Head(?) and Wasatch(?) Formations:		
Silt, light-brown, gravel, and sandstone; silt, sandy and clayey and contains interspersed very fine to fine gravel, and thin interbeds of gravel and sandstone; gravel, very fine to coarse, angular to rounded volcanic-rock fragments, occurs in beds 6 to 12 in. thick at 10-ft intervals, increasing in frequency to 4- to 6-ft intervals from 200 to 245 ft;		
(C-33-5)16add-1 (TH 3) - Continued.		
Brian Head(?) and Wasatch(?) Formations - Continued:		
sandstone, very fine to medium-grained, angular to rounded, 50 percent quartz and plagioclase, 50 percent dark minerals, occurs in beds 3 to 6 in. thick at 5- to 10-ft intervals	75	245
Silt, brown, clayey; contains very fine to medium gravel	27	272
Gravel, very fine to very coarse, angular to subrounded, volcanic-rock fragments with brown, sandy silt	28	300
Silt, light-brown, sandy and clayey, and interspersed very fine to very coarse gravel; gravel, angular to subrounded limestone and volcanic-rock fragments	80	380
Gravel, very fine to very coarse, small cobbles, very fine to very coarse sand, and brown silt; gravel and cobbles, angular to subrounded, 95 percent volcanic-rock fragments, 5 percent limestone fragments; very coarse and coarse sand, angular to subangular, volcanic-rock fragments; medium sand, 75 percent angular to subangular volcanic-rock fragments, 25 percent angular to rounded quartz; fine and very fine sand, angular, 50 percent quartz, 50 percent dark minerals	42	422
Silt, light-tan, tan, clayey and sandy; contains interspersed very fine to very coarse gravel	28	450
Gravel, very fine to very coarse, small cobbles, and very fine to very coarse sand; gravel and cobbles, angular to subrounded, 90 percent volcanic-rock fragments, 10 percent quartzite and red limestone fragments; very coarse and coarse sand, 75 percent angular quartz and volcanic-rock fragments, 25 percent rounded quartz and limestone fragments; medium sand, angular to rounded, 50 percent quartz, 50 percent volcanic-rock fragments; fine and very fine sand, angular, 75 percent quartz, 25 percent volcanic-rock fragments	11	461
Silt, light-tan, clayey; contains interspersed, very fine to coarse, angular to subrounded gravel	13	474
Gravel, very fine to very coarse, and small cobbles, in light-tan silt matrix; gravel and cobbles angular to subrounded, 95 percent volcanic-rock fragments, 5 percent limestone fragments	9	483
Volcanic rock (tuff)	27	510
(C-33-5)16bca-1 (TH 2). Alt. 6,505 ft.		
Recent and Pleistocene deposits:		
Gravel, very fine to very coarse, small cobbles, and very fine to very coarse sand; gravel and cobbles, angular to rounded, sandstone and volcanic-rock fragments; very coarse and coarse sand, respectively angular to subrounded and angular to rounded, 50 percent sandstone fragments, 50 percent volcanic-rock fragments; medium sand, angular to rounded, 50 percent sandstone and quartz fragments, 50 percent volcanic-rock fragments; fine and very fine sand, respectively angular to rounded and angular, 75 and 90 percent quartz and sandstone fragments, 25 and 10 percent dark minerals	22	22
Brian Head(?) and Wasatch(?) Formations:		
Conglomerate; pebbles, very fine to very coarse, angular to rounded, sandstone and volcanic-rock fragments, loosely consolidated in matrix of semi-consolidated, brown, sandy silt	30	52
Conglomerate; pebbles, very fine to coarse, angular to subangular, 90 percent volcanic-rock fragments, 10 percent sandstone fragments, loosely cemented in sandy silt; contains brown sandy silt between 84-88 ft	51	103
Silt, to siltstone, light-brown, clayey; contains very fine to medium gravel between 103-116 ft	37	140
Conglomerate; very fine to medium pebbles in very fine to very coarse sand, and gray silt; pebbles, angular to subangular, sandstone and volcanic-rock fragments, poorly cemented with silt and sand; very coarse and coarse sand, angular to subrounded, volcanic-rock fragments; medium sand, angular to rounded 75 percent sandstone and volcanic-rock fragments, 25 percent quartz and dark minerals; fine and very fine sand, angular to rounded, respectively 50 and 60 percent quartz, 50 and 40 percent dark minerals and volcanic-rock fragments	41	181
Siltstone, gray to dark gray, and very fine to very coarse sandstone; loosely consolidated; sand composition same as interval 140-181 ft	27	208
Siltstone, brown, sandy and clayey, loosely consolidated, contains very fine to coarse gravel; gravel interspersed in siltstone and occurs in beds 1 to 2 ft thick at 2- to 3-ft intervals	30	238
Clay, orange to red-orange; contains fine silt	3	241
Siltstone, brown, sandy and clayey; contains very fine to coarse gravel in 1-ft beds at 1- to 2-ft intervals	29	270
Conglomerate, loosely consolidated in clayey silt matrix; pebbles very fine to very coarse, angular to subrounded, sandstone, red limestone, and volcanic-rock fragments; silt, light gray, tan, brown, orange, red-orange, and pink	18	288

Table 4.--Logs of selected wells and test holes in the upper Sevier River basin - Continued

Test-hole logs - Continued

Panguitch Valley - Continued

	Thickness	Depth
(C-33-5)16bca-1 (TH 2) - Continued.		
Brian Head(?) and Wasatch(?) Formations - Continued:		
Conglomerate, of very fine to very coarse gravel, small cobbles, and sandy and clayey silt, loosely consolidated; gravel and cobbles, angular to subrounded, sandstone, red limestone, and volcanic-rock fragments; silt, light-gray and tan with orange streaks, beds 1 to 4 ft thick at 2- to 6-ft intervals	26	314
Silt, light-gray, tan, orange, red-orange, light-purple, sandy and clayey; contains very fine to fine gravel	18	332
Siltstone, gray to black, calcareous; grades from clayey to sandy; contains light-gray, tan, light-brown and olive-green claystone in 1-in. laminations; about one-half the interval between 535-545 ft is light-gray claystone	213	545
(C-34-5)2cdc-1 (TH 7). Alt. 6,640 ft.		
Recent and Pleistocene deposits:		
Silt, light-brown; contains very fine to coarse, quartz sand	14	14
Gravel, very fine to very coarse, and very fine to very coarse sand; contains thin beds of tan, sandy silt; gravel, angular to subrounded volcanic-rock fragments; very coarse and coarse sand, angular to rounded, 75 percent volcanic-rock fragments, 25 percent quartz; medium, fine, and very fine sand, angular to rounded, 75 percent quartz, 25 percent volcanic-rock fragments	6	20
Sand, very fine to very coarse, angular to rounded; contains some very fine to very coarse gravel; very coarse and coarse sand, volcanic-rock fragments; medium, fine, and very fine sand, 75 percent quartz, 25 percent volcanic-rock fragments	12	32
Gravel, very fine to very coarse, angular to sub-rounded volcanic-rock fragments; contains small cobbles and very fine to very coarse sand	13	45
Sand, very fine to coarse, angular to rounded; medium sand predominates and is 50 percent quartz, 50 percent volcanic-rock fragments	6	51
Gravel, very fine to very coarse, angular to subrounded, volcanic-rock fragments; contains small cobbles and brown, sandy silt	4	55
Cobbles, small, and very coarse gravel; volcanic-rock fragments	2	57
Gravel, very fine to very coarse, angular to subrounded volcanic-rock fragments; contains very fine to medium sand, and tan and gray, clayey silt	4	61
Sand, very fine to very coarse, angular to rounded; contains thin beds of tan and light-brown sandy silt; very coarse and coarse sand, volcanic-rock fragments; medium sand, 50 percent quartz, 50 percent volcanic-rock fragments; fine and very fine sand, 75 percent quartz, 25 percent volcanic-rock fragments	11	72
Sand, very fine to very coarse, angular to rounded; 50 percent of sand is medium to coarse; very coarse sand, 90 percent volcanic-rock fragments, 10 percent quartz; coarse and medium sand, 50 percent quartz, 50 percent volcanic-rock fragments; fine and very fine sand, 75 percent quartz, 25 percent volcanic-rock fragments	9	81
Cobbles, small to large, subangular to rounded, volcanic-rock fragments	2	83
Sand, very fine to very coarse, angular to rounded; 75 percent of sand is fine to medium; very coarse and coarse sand, 75 percent volcanic-rock fragments, 25 percent quartz; medium sand, 50 percent quartz, 50 percent volcanic-rock fragments; fine and very fine sand, 75 percent quartz, 25 percent volcanic-rock fragments	4	87
Gravel, very coarse, and small cobbles, subangular to rounded, volcanic-rock fragments	1	88
Gravel, very fine to fine, and very fine to very coarse sand; gravel, angular to subrounded volcanic-rock fragments; very coarse to medium sand, 75 percent volcanic-rock fragments, 25 percent quartz; fine to very fine sand, 50 percent quartz, 50 percent volcanic-rock fragments	8	96
Sevier River(?) Formation:		
Clay, brown, sandy and silty; contains very fine to very coarse gravel interspersed, but occasionally in beds 1 to 3 ft thick; contains silty sand from 153-156 ft	66	162
Clay, brown, light-green, light greenish-gray, sandy, and silty; color repetition in intervals 1 in. to 2 ft thick	32	194
Silt, tan to light-brown, sandy and clayey	18	212
Silt, light blue-gray, sandy and clayey	12	224
Gravel, very fine to very coarse, and very fine to very coarse sand; contains brown, sandy silt; gravel, angular to rounded, volcanic-rock fragments; sand, angular to rounded, quartz and volcanic-rock fragments	16	240
Silt, light-brown, sandy and clayey; contains interspersed coarse to very coarse sand and very fine to medium gravel	25	265
(C-34-5)2cdc-1 (TH 7) - Continued.		
Sevier River(?) Formation - Continued:		
Gravel, very fine to very coarse, in sandy and clayey silt matrix; gravel, angular to rounded, volcanic-rock fragments	10	275
Silt, brown and blue-gray, sandy, and clayey; contains very fine to very coarse gravel; blue-gray silt occurs in beds 1 to 6 in. thick at 3- to 5-ft intervals	35	310
Silt, brown, sandy and clayey; contains very fine to fine, angular to subangular gravel, with some very coarse gravel	35	345
Gravel, very fine to very coarse, in brown, sandy silt matrix; gravel, angular to rounded, volcanic-rock fragments	39	384
Gravel, very fine to very coarse, and coarse to very coarse sand; gravel and sand, angular to rounded volcanic-rock fragments	11	395
Gravel, very fine to medium, in brown, sandy silt matrix; gravel, angular to subrounded volcanic-rock fragments	9	404
Gravel, very fine to very coarse, in brown, sandy and clayey silt matrix; gravel, angular to rounded, volcanic-rock fragments	13	417
Gravel, very fine to medium, in brown, sandy and clayey silt matrix; gravel, angular to rounded, volcanic-rock fragments	3	420
Gravel, very fine to very coarse, in brown, sandy and clayey silt matrix; contains occasional small cobble; gravel, angular to rounded volcanic-rock fragments	18	438
Silt, tan and brown, sandy and clayey	5	443
Interbedded, very fine to very coarse gravel, 4 to 5 ft thick, and brown, sandy and clayey silt, 6 to 12 in. thick; gravel, angular to rounded volcanic-rock fragments	42	485
Silt, brown, clayey	3	488
Interbedded, very fine to very coarse gravel, 3 to 4 ft thick, and brown, sandy silt, 6 to 12 in. thick; gravel, angular to rounded, volcanic-rock fragments	15	503
Silt, brown, clayey	5	508
Gravel, very fine to very coarse, in brown, sandy silt matrix; gravel, angular to rounded volcanic-rock fragments	20	528
Silt, light-yellow, orange-brown, and brown, sandy and clayey; contains very fine to very coarse gravel	12	540
Silt, brown, sandy, with interspersed very fine to medium gravel; contains 1- to 6-in. beds of light-tan, brown, and light blue-gray siltstone at about 5-ft intervals	55	595
Brian Head(?) and Wasatch(?) Formations:		
Clay, light-gray, gray, and blue-gray; clay varies from nearly pure to silty and sandy clay; silt and sand grains composed of fragments of quartz and dark minerals	160	755
(C-34-5)7aaa-1 (TH 5). Alt. 6,620 ft.		
Recent and Pleistocene deposits:		
Silt, dark-brown, sandy	6	6
Gravel, very fine to very coarse, small cobbles, and very fine to very coarse sand; gravel and cobbles, angular to rounded, sandstone and volcanic-rock fragments; very coarse and coarse sand, composes 75 percent of total sand, angular to subrounded, sandstone and volcanic-rock fragments; medium sand angular to rounded, quartz and volcanic-rock fragments; fine and very fine sand, angular quartz and volcanic-rock fragments, and subangular to rounded quartz and dark minerals	13	19
Sevier River(?) Formation:		
Silt, brown, sandy; contains interspersed, very fine to medium gravel of sandstone and volcanic-rock fragments	19	38
Cobbles, small, volcanic-rock fragments	2	40
Silt, dark-brown, clayey; contains interspersed, very fine to fine gravel of sandstone and volcanic-rock fragments	4	44
Gravel, very fine to very coarse in brown, sandy and clayey silt matrix; gravel, angular to subrounded, sandstone and volcanic-rock fragments	15	59
Silt, brown, sandy and clayey; contains very fine to fine, angular to subangular gravel composed of sandstone and volcanic-rock fragments	15	74
Gravel, very fine to very coarse, and very fine to very coarse sand; gravel, angular to subrounded, sandstone and volcanic-rock fragments; very coarse and coarse sand, angular to subangular, sandstone and volcanic-rock fragments; medium and fine sand, 90 percent angular volcanic-rock fragments, 10 percent angular to rounded quartz; very fine sand, angular, 50 percent quartz, 50 percent dark minerals and volcanic-rock fragments	4	78
Silt, brown, sandy and clayey; contains interspersed very fine to fine, angular to subangular gravel of volcanic-rock fragments	18	96

Table 4.--Logs of selected wells and test holes in the upper Sevier River basin - Continued

Test-hole logs - Continued

Panguitch Valley - Continued

	Thickness	Depth
(C-34-5)7aaa-1 (TH 5) - Continued.		
Sevier River(?) Formation - Continued:		
Sand, very fine to very coarse; very coarse to coarse sand, angular to subrounded, sandstone and volcanic-rock fragments; medium sand, 90 percent angular volcanic-rock fragments, 10 percent angular to rounded, quartz; fine sand, 50 percent angular volcanic-rock fragments, 50 percent angular to rounded quartz; very fine sand, angular, 50 percent quartz, 50 percent dark minerals and volcanic-rock fragments .	3	99
Gravel, very fine to coarse, and very fine to very coarse sand; contains thin beds of brown, sandy silt; gravel, angular to subrounded, sandstone and volcanic-rock fragments; very coarse sand, angular, 90 percent volcanic-rock fragments, 10 percent sandstone fragments; coarse sand, 90 percent angular to subrounded volcanic-rock fragments, 10 percent angular to rounded quartz; medium and fine sand, angular to rounded, 50 percent quartz, 50 percent volcanic-rock fragments and dark minerals; very fine sand, 50 percent angular to rounded quartz, 50 percent angular volcanic-rock fragments and angular to rounded dark minerals	44	143
Gravel, very fine to very coarse, in matrix of light-tan, clayey silt; gravel, angular to subrounded, volcanic-rock fragments.	4	147
Gravel, coarse to very coarse, and small to large cobbles; partially cemented by caliche; subangular to subrounded, volcanic-rock fragments.	25	172
Gravel, very fine to very coarse, and very fine to very coarse sand; gravel, subrounded to rounded, 60 percent volcanic-rock fragments and 40 percent sandstone; very coarse and coarse sand, 90 percent angular to subangular sandstone and volcanic-rock fragments, 10 percent angular quartz and feldspar; medium sand, 60 percent angular to subrounded volcanic-rock fragments, 40 percent angular to rounded quartz; fine and very fine sand, respectively angular and angular to subangular, 50 and 90 percent quartz, 50 and 10 percent volcanic-rock fragments and dark minerals.	8	180
Gravel, very fine to very coarse, and small cobbles, angular to subrounded, sandstone and volcanic-rock fragments.	12	192
Gravel, very fine to very coarse, in matrix of light-tan, tan, and orange-tan, sandy and clayey silt; contains small cobbles from 215-217 ft; gravel, angular to subrounded, sandstone and volcanic-rock fragments.	31	223
Gravel, very fine to very coarse, and very fine to very coarse sand; gravel, angular to subrounded, sandstone and volcanic-rock fragments; very coarse and coarse sand, angular to subangular, volcanic-rock fragments; medium sand, angular to rounded, 75 percent volcanic-rock fragments and dark minerals, 25 percent quartz; fine and very fine sand, angular to rounded, 50 percent volcanic-rock fragments and dark minerals, 50 percent quartz	4	227
Gravel, very fine to very coarse, in matrix of tan, sandy and partly clayey silt; gravel, angular to subrounded, sandstone and volcanic-rock fragments. . .	48	275
Clay, white to light-gray, sandy and silty, and interspersed very fine to fine gravel; gravel, angular to subangular, volcanic-rock fragments	20	295
Brian Head(?) and Wasatch(?) Formations:		
Interbedded, light-gray to white, light-pink, light-orange, yellow, and lavender clay, sandy and silty clay, white siltstone, white sandstone, and white to light-pink and light-orange limestone; the formation is light-gray to white between 295-356 ft, contains intervals of pink and orange between 356-380 ft, and contains minor intervals of lavender and yellow clay between 380-388 ft; pink limestone 388-390 ft.	95	390
(C-34-5)9bab-1 (TH 6). Alt. 6,505 ft.		
Recent and Pleistocene deposits:		
Silt, light-tan and brown, sandy.	14	14
Gravel, very fine to very coarse, small cobbles, and very fine to very coarse sand; gravel and cobbles, subangular to rounded, 90 percent volcanic-rock fragments, 10 percent sandstone, quartzite, chert, and limestone fragments; very coarse and coarse sand, respectively angular to rounded and angular to subrounded, 90 percent volcanic-rock fragments, 10 percent sandstone, quartzite, chert and limestone fragments; medium sand, angular to rounded, 50 percent volcanic-rock fragments, 50 percent quartz; fine and very fine sand, respectively angular to rounded and angular to subrounded, 75 and 60 percent quartz, 25 and 40 percent dark minerals and volcanic-rock fragments	48	62
Gravel, very fine to very coarse, in matrix of light-gray, sandy silt; gravel, angular to rounded, sandstone, limestone, and volcanic-rock fragments. . .	11	73
(C-34-5)9bab-1 (TH 6) - Continued.		
Recent and Pleistocene deposits - Continued:		
Cobbles, small, and coarse to very coarse gravel; cobbles and gravel, angular to subrounded, sandstone, limestone, and volcanic-rock fragments	5	78
Silt, light-tan, sandy and clayey	5	83
Gravel, medium to very coarse, and small cobbles; gravel and cobbles, angular to subrounded, sandstone, limestone, and volcanic-rock fragments	14	97
Sevier River(?) Formation:		
Gravel, very fine to medium, in matrix of dark-brown, sandy silt; gravel, angular to rounded, sandstone and volcanic-rock fragments.	18	115
Silt, brown, sandy and clayey; contains 6- to 12-in. beds of very coarse sand and very fine to fine gravel at 5- to 15-ft intervals	75	190
Silt, light-gray, gray, and blue-gray, clayey and sandy; contains interspersed very coarse sand and very fine gravel of angular to rounded sandstone and volcanic-rock fragments; interval predominantly silt, but varies from very fine silty and sandy clay to clayey or silty sand; individual beds range in thickness from 1 in. to 3 ft; contains ostracods . . .	105	295
Silt, brown, sandy and clayey; contains interspersed very coarse sand and very fine gravel of angular to subrounded sandstone and volcanic-rock fragments . . .	29	324
Gravel, very fine to very coarse, in matrix of brown, sandy silt; gravel, angular to rounded, sandstone and volcanic-rock fragments.	26	350
Gravel, very fine to very coarse, small cobbles, and very fine to very coarse sand; contains 1- to 2-ft beds of brown, sandy silt at 4- to 8-ft intervals; gravel and cobbles, angular to rounded, sandstone and volcanic-rock fragments; very coarse sand, angular to subrounded, 90 percent volcanic-rock fragments, 10 percent quartz, sandstone, and limestone fragments; coarse and medium sand, angular to rounded, respectively 90 and 50 percent volcanic-rock fragments, 10 and 50 percent quartz; fine and very fine sand, respectively angular to rounded and angular, 60 and 50 percent quartz, 40 and 50 percent dark minerals.	65	415
Silt, gray-brown, clayey.	5	420
Gravel, very fine to very coarse, and small cobbles, in matrix of brown, clayey silt; gravel and cobbles, angular to subrounded, volcanic-rock fragments	25	445
Gravel, very fine to coarse, in matrix of very fine to fine sand and sandy silt; partly cemented by silica; gravel composed of limestone, sandstone, and volcanic-rock fragments.	36	481
Gravel, very fine to very coarse and small cobbles, in matrix of brown, sandy silt; gravel and cobbles also occur in beds 6 to 12 in. thick at 4- to 8-ft intervals, and are composed of angular to rounded sandstone, limestone, and volcanic-rock fragments. . .	55	536
Silt, white and light-gray to gray, sandy and clayey; very clayey between 544-551 ft	24	560
Brian Head(?) and Wasatch(?) Formations:		
Sandstone, black and dark brown, and brown, sandy silt; sandstone, very fine to medium-grained, composed of angular to rounded quartz and dark minerals, occurs in beds 6 to 12 in. thick, interbedded with silt at 6- to 12-in. intervals	6	566
Clay, white, light-gray, pink, yellow, orange, and red; contains thin beds of white, orange, pink and red, sandy limestone.	147	713
(C-36-5)28bdc-1 (TH 8). Alt. 6,870 ft.		
Recent and Pleistocene deposits:		
Clay, light yellow-orange to tan, silty and sandy, calcareous	8	8
Silt, light-gray, clayey, sandy; contains very fine to fine, subangular to rounded gravel	13	21
Sand, very fine to very coarse, and very fine to coarse gravel; sand, subangular to rounded, 80 percent quartz, 20 percent chert, limestone, and other rock fragments; gravel, subangular to rounded, 80 percent limestone, sandstone, quartzite, and chert fragments, 20 percent volcanic-rock fragments.	11	32
Sevier River(?) Formation, or Brian Head(?) and Wasatch(?) Formations:		
Silt to fine sand, interbedded with very fine to fine-grained sandstone; contains medium to very coarse sand and very fine to fine gravel between 46-50 ft and 65-80 ft; gravel and sand consist mostly of volcanic-rock fragments; silt and fine sand, light pink-tan to brown, clayey and sandy; sandstone, brown to green and yellow-brown, composed of subangular to subrounded quartz and rock fragments, loosely cemented by silica or clay	63	95
Gravel, very fine to very coarse, and very fine to very coarse sand, interspersed and interbedded with pink-tan and orange-tan to brown, clayey and sandy silt; gravel, subangular to rounded, 90 percent volcanic-rock fragments, 10 percent chert and sandstone fragments; very coarse and coarse sand,		

Table 4.--Logs of selected wells and test holes in the upper Sevier River basin - Continued

Test-hole logs - Continued

Panguitch Valley - Continued

	Thickness	Depth
(C-36-5)28bdc-1 (TH 8) - Continued.		
Sevier River(?) Formation, or Brian Head(?) and Wasatch(?) Formations - Continued:		
subangular to subrounded, volcanic-rock fragments; fine and very fine sand, subangular to subrounded quartz	35	130
Silt, to very fine sand, light pink-tan, orange-tan, and yellow-gray to white; contains much medium to coarse sand and some very fine to medium gravel between 145-182 ft; contains few interbeds of white, clayey silt to silty clay between 170-180 ft	52	182
Sandstone, red-brown and black, very fine to fine-grained, subangular, loosely to moderately cemented with clay and calcite	3	185
Silt to fine sand, light yellow-gray to tan and white, clayey; contains few yellow clay interbeds; also contains some medium to coarse quartz sand, subangular to subrounded	30	215
Sandstone, very fine to medium-grained with few thin interbeds of white, well-consolidated tuff, composed of glass shards; sandstone, light-yellow, yellow-gray, yellow-green, tan, and brown, subangular to subrounded quartz and volcanic-rock fragments, loosely to moderately cemented with clay, calcite, and silica(?).	30	245
Silt to fine sand, light-yellow, yellow-tan, and tan to white, partly clayey; contains a few interbeds of white, clayey tuff, which becomes predominant between 265-270 ft	25	270
Gravel, very fine to fine, dark-brown to black, angular to subrounded, volcanic-rock fragments	6	276
Sandstone, interbedded with tan to yellow-gray, sandy silt to fine sand; also contains thin interbeds of siltstone to claystone; sandstone, very fine to medium-grained, light gray to gray, composed of subangular to subrounded quartz with some volcanic-rock fragments, loosely cemented by clay and calcite	17	293
Siltstone, light-tan, moderately to well cemented by silica and clay; becomes interbedded with and grades into light-brown to gray sandstone; sandstone, fine- to medium-grained, composed mostly of angular quartz, feldspar, and obsidian(?) grains	12	305
Sandstone, very fine to medium-grained, light tan-gray to gray-brown; contains interbeds of fine gravel and tan sandy silt between 305-320 ft, and tan, sandy silt to siltstone between 320-340 ft; becomes interbedded with pink-tan siltstone, sandy silt, and yellow-white clay to claystone between 340-360 ft; sandstone composed mostly of quartz and feldspar with some dark minerals and obsidian(?) rock fragments, cemented by clay(?) and calcite	55	360
Silt to fine sand, white to light yellow-tan and pink-tan, partly clayey, resembles weathered volcanic tuff; contains interbeds of sandstone as described in intervals 293-305 and 305-360 ft above	19	379
(C-36-5)28bdc-1 (TH 8) - Continued.		
Sevier River(?) Formation, or Brian Head(?) and Wasatch(?) Formations - Continued:		
Sandstone, very fine to medium-grained, tan to black; contains interbeds of sandy silt and tan to brown claystone; black sandstone composed of subangular to subrounded grains of dark minerals and volcanic-rock fragments loosely cemented by silica; tan sandstone, tuffaceous, clayey, and composed mostly of angular to subangular feldspar grains, cemented by clay and silica	22	401
Silt, sandy, partly clayey and calcareous, and very fine to medium sand, light yellow-tan to yellow-white; contains interbeds of gray to black sandstone between 401-419 ft; contains very fine to medium, subangular to subrounded gravel between 419-439 ft; also contains interbeds of white, silty clay to claystone between 400-419 and 439-459 ft	64	465
Volcanic tuff, white to tan-pink, composed mostly of glass shards with some angular quartz and feldspar fragments, moderately to well cemented by silica	8	473
Sandstone, light yellow-brown to light-gray, fine- to medium-grained, subangular to subrounded; yellow-brown sandstone, clayey, 90 percent quartz, 10 percent calcite and rock fragments, calcite-cemented; gray sandstone, 90 percent quartz, 10 percent biotite, silica-cemented	5	478
Silt and clay, pink-tan, light-yellow to yellow-gray, and yellow-green, sandy, partly calcareous; contains interbeds of light yellow-green, loosely consolidated claystone between 487-500 ft, and very fine to fine, subangular to subrounded gravel of volcanic-rock fragments between 500-518 ft; also contains few interbeds of light yellow-white, fine-grained sandstone between 520-530 ft	52	530
Volcanic tuff, white, weathered, interbedded with white to yellow-white, calcareous claystone; contains some interspersed and interbedded, very fine to medium gravel of 75 percent volcanic-rock fragments, 25 percent limestone and quartzite fragments; tuff, composed of glass shards, clay, quartz, feldspar, other mineral fragments; claystone grades into sandy silt with depth	24	554
Silt and clay, to very fine sand, white to light-tan, orange-pink, calcareous; contains few interbeds of siltstone to claystone as described above; also contains interbeds of very fine to coarse sand, and very fine to medium gravel; gravel, 50 percent volcanic-rock fragments, 50 percent quartzite and limestone fragments; sand, subangular to subrounded, 90 percent quartz grains, 10 percent volcanic-rock fragments	23	577

Circle Valley

	Thickness	Depth
(C-30-3)16bab-1. TH 21, central Sevier Valley drilling program[1]. Alt. 5,997 ft.		
Recent and Pleistocene deposits:		
Silt, dark-gray, sandy; contains peat	4	4
Sand, coarse, to medium gravel; composed of volcanic-rock and sandstone fragments; water-bearing	17	21
Clay, light-gray to light-brown; some fine gravel	5	26
Cobbles and sand	4	30
Silt, tan to light-gray, alternating with thin layers of fine sand	32	62
Gravel, coarse, composed of volcanic-rock fragments; water-bearing	14	76
Silt and sand, gray	7	83
Tertiary volcanic rocks:		
Clay, light-green, brown, and white, tuffaceous; intermittently silty and sandy; contains glass shards; few thin layers of fine volcanic gravel below 310 ft; contains plant material 360-362 ft	279	362
Gravel, medium, composed of volcanic-rock fragments	3	365
Tuff, welded	9	374
(C-30-3)30caa-1. TH 22, central Sevier Valley drilling program[2]. Alt. 6,055 ft.		
Recent and Pleistocene deposits:		
Sand, fine to very fine, dark-brown, silty	10	10
Gravel, fine	2	12
Silt, brown, sandy	10	22
Gravel, fine to coarse	50	72
Silt, light-brown, clayey	26	98
Gravel, coarse to fine	17	115
Silt, light- to dark-brown, sandy	13	128
Gravel, coarse to fine	125	253
Silt, white, sandy	2	255
Gravel, coarse; silt, 250-256 ft	44	299
Clay, brown, silty	3	302
Gravel, medium to coarse; with thin clay layers	33	335
Clay, light-brown, silty	45	380
Gravel, fine to medium	1	381
(C-30-3)30caa-1 - Continued.		
Recent and Pleistocene deposits - Continued:		
Silt, light-brown, clayey	6	387
Gravel, coarse to medium	11	398
Clay, dark-brown, silty, sandy	18	416
Gravel, fine	8	424
Clay, dark-brown, silty, sandy	8	432
Gravel, medium to coarse	14	446
Clay, dark-brown, silty, sandy	24	470
Gravel, coarse	4	474
Clay, sandy, silty	6	480
Gravel	8	488
Clay, sandy, silty; with gravel lenses	32	520
Gravel	10	530
Clay, sandy, silty	8	538
Gravel	8	546
Clay, sandy, silty	6	552
Gravel	6	558
Clay, dark-brown, sandy, silty	5	563
(C-30-3)32bbb-1 (TH 20). Alt. 6,100 ft.		
Recent and Pleistocene deposits:		
Silt and fine sand, tan to light-brown, calcareous; contains interspersed fine to medium gravel; contains 1-ft interbed of gravel between 3-4 ft	16	16
Gravel, very fine to very coarse; contains light-brown, clayey silt to fine and medium sand both as matrix and as 6- to 12-in. interbeds; gravel, angular to subrounded, well-compacted, volcanic-rock fragments	20	36
Silt and very fine to medium sand in 3- to 5-ft beds, interbedded with 6-in. to 4-ft beds of very fine to coarse gravel; interbeds of gravel between 77-110 ft are well-sorted and rounded; gravel, subangular to rounded, volcanic-rock fragments; medium sand, subangular to rounded, 85-95 percent volcanic-rock fragments, 5-15 percent quartz and sedimentary-rock fragments; fine and very fine sand, 75-85 percent		

Table 4.--Logs of selected wells and test holes in the upper Sevier River basin - Continued

Test-hole logs - Continued

Circle Valley - Continued

	Thickness	Depth
(C-30-3)32bbb-1 (TH 20) - Continued.		
Recent and Pleistocene deposits - Continued:		
quartz and feldspar fragments, 10-15 percent rock fragments, 5-10 percent dark minerals	89	125
Gravel, very fine to very coarse, and cobbles; gravel predominates, except between 150-187 ft; contains few thin interbeds of yellow-tan to light-brown, sandy and clayey silt, and very fine to coarse sand between 125-140 and 215-239 ft; gravel, angular to subrounded, volcanic-rock fragments, except in interval 160-175 ft, where subrounded to rounded gravel predominates	114	239
Sand, very fine to medium, and silt, yellow-tan to brown, clayey and partly calcareous; contains interspersed very fine to very coarse gravel	8	247
Gravel, very fine to very coarse, and cobbles, in matrix of tan to light-brown, sandy silt; silt in interbeds 1 to 4 ft thick between 275-290 ft; gravel, angular to subrounded, except rounded between 303-380 ft, volcanic-rock fragments	145	392
Silt, tan to light-brown, sandy	6	398
Gravel, very fine to very coarse, and cobbles, in matrix of tan to light-brown, sandy silt to fine and medium sand; contains interbeds 1 to 2 ft thick of sandy silt containing light-gray to pink clay between 420-436 and 470-472 ft; also contains an interbed of very fine to very coarse sand between 437-440 ft; gravel and cobbles, subangular to subrounded, volcanic-rock fragments	152	550
Sand, very fine to very coarse, and silt; contains interspersed fine to coarse gravel and cobbles	23	573
Gravel and cobbles in matrix of sandy silt to fine sand; contains interbeds of light pink-gray, silty clay between 590-610 ft; also contains several interbeds of tan, calcareous, poorly consolidated, clayey siltstone between 620-630 ft; gravel in interval 616-659 ft is well rounded and is interspersed in very fine to very coarse sand	107	680
(C-30-4)35dab-1 (TH 21). Alt. 6,086 ft.		
Recent and Pleistocene deposits:		
Silt, tan to light-brown, partly clayey, sandy	13	13
Gravel, very fine to medium, very coarse between 35-50 ft; contains tan to yellow-tan calcareous silt and very fine to coarse sand as both matrix and 1-ft interbeds between 18-50 ft; gravel, subangular to rounded, 75-90 percent volcanic-rock fragments, 10-25 percent chert, quartzite, limestone, and sandstone fragments; coarse and medium sand, 75 percent volcanic-rock fragments, 25 percent crystalline and rounded quartz and feldspar; fine and very fine sand, 75 percent quartz and feldspar, 25 percent dark minerals and rock fragments	58	71
Silt to fine sand, light yellow-tan, clayey, sandy, calcareous, contains 1-ft interbed of fine to medium gravel at 72 ft	4	75
Gravel, very fine to very coarse, angular to subrounded, rounded between 98-105 ft; very coarse gravel with cobbles predominates from 110-165 ft; contains small amount of yellow-tan to tan silt between 102-140 ft; also contains several zones of gravel in a light-orange clay matrix between 130-140 ft	90	165
Gravel, very fine to medium, in matrix of yellow-tan, orange-tan, and pink to brown clayey silt and fine sand; contains interbeds of very fine to very coarse sand, and coarse gravel and cobbles; clayey silt changes to light gray-green color at 225 ft; gravel, angular to subrounded, 95-100 percent volcanic-rock fragments, 0-5 percent sandstone, chert, and quartzite fragments; very coarse, coarse, and medium sand, 95-98 percent volcanic-rock fragments, 2-5 percent quartz feldspar, and other mineral fragments; fine and very fine sand, 50-60 percent quartz and feldspar fragments, 40-50 percent dark mineral fragments	66	231
Silt to medium sand, pink-tan, orange, yellow to yellow-tan, light-gray, clayey; contains interspersed, fine volcanic gravel and very coarse sand; interval 300-305 ft contains light-orange, silty clay.	74	305
Gravel, very fine to very coarse, some cobbles; tan, clayey silt in interval 305-320 ft, then diminishes in amount until present only in 1- to 2-ft interbeds at 5- to 7-ft intervals of gravel; contains medium to coarse sand between 350-360 ft	135	440
Gravel, coarse to very coarse, small cobbles; in part contains matrix of very fine to coarse sand and yellow-tan to pink-gray and white, clayey silt; this matrix increases in amount with depth; gravel, subangular to subrounded, volcanic-rock fragments; sand description same as above	70	510

East Fork Valley

	Thickness	Depth
(C-31-2)3cbc-1 (TH 13). Alt. 6,360 ft.		
Recent and Pleistocene deposits:		
Silt, light- to dark-gray, contains very fine to medium sand	3	3
Sand, very fine to very coarse, and gray silt; contains minor amount of very fine to medium gravel of angular to rounded, volcanic-rock fragments; very coarse and coarse sand, angular to subrounded, respectively 90 and 75 percent volcanic-rock fragments, 10 and 25 percent quartz fragments; medium sand, angular to rounded, 75 percent quartz, 25 percent volcanic-rock fragments and dark minerals; fine and very fine sand, angular to rounded, 90 percent quartz, 10 percent dark minerals	27	30
Gravel, very fine to coarse, small cobbles, and sand; gravel, angular to rounded, 75 percent volcanic-rock fragments, 25 percent chert and limestone fragments; cobbles, volcanic-rock fragments; sand same description as 3-30 ft interval above	28	58
Silt, tan, clayey; contains very fine to medium gravel between 65-70 ft	17	75
Gravel, very fine to very coarse, angular to rounded, volcanic-rock fragments; contains thin beds of light-tan to pink-tan, clayey silt; also contains cobbles of volcanic-rock fragments between 85-86 ft	11	86
Gravel, very fine to very coarse; contains a few thin beds of light-tan silt; gravel, angular to rounded, 75 percent volcanic-rock fragments, 25 percent white and light-red limestone fragments	12	98
Silt, light-tan, pink-tan, and light- to dark-gray; contains few very thin interbeds of light-tan to light-orange clay, and occasional thin lense of sand, with very fine to fine gravel	25	123
Gravel, very fine to coarse; contains light-tan and light- to dark-gray silt and some clayey silt in beds about 2 ft thick at 5- to 6-ft intervals; gravel, angular to rounded, volcanic-rock fragments	43	166
Gravel, very fine to very coarse, and very fine to very coarse sand; gravel, angular to rounded, 90 percent volcanic-rock fragments, 10 percent limestone, sandstone, and chert fragments; very coarse and coarse sand, angular to subrounded, respectively 90 and 75 percent volcanic-rock fragments, 10 and 25 percent quartz, limestone, chert, sandstone, and dark mineral fragments; medium sand, angular to rounded, 75 percent volcanic-rock fragments, 25 percent quartz and dark mineral fragments; fine and very fine sand, respectively angular to subrounded and angular, 75 percent quartz fragments, 25 percent volcanic-rock fragments and dark minerals	23	189
Silt and clay, partly sandy; contains thin beds of very fine to fine gravel and coarse to very coarse gravel; silt, light-tan to pink, yellow-tan, and light-gray to gray, contains some clay and very fine sand; clay, yellow-tan to bright yellow-orange, contains some very fine sand	12	201
Tertiary volcanic rock	9	210
(C-33-2)22aab-1 (TH 12). Alt. 7,225 ft.		
Recent and Pleistocene deposits:		
Silt, dark-brown to brown-gray 1-3 ft, light-tan to brown 3-12 ft, clayey, sandy	12	12
Gravel, very fine to medium, and medium to coarse sand, very clean and well-sorted; gravel, subrounded to rounded, 50 percent limestone, quartzite and chert fragments, 50 percent volcanic-rock fragments; coarse sand, subangular to rounded, same composition as gravel; medium sand, subangular to rounded, 95 percent quartz, 5 percent volcanic-rock fragments	53	65
Gravel, very fine to coarse, and very coarse sand; contains interbedded and interspersed yellow-tan to pink-white, clayey and sandy silt to silty clay; gravel, same description as interval 12-65 ft above; sand, subangular to subrounded, 75 percent volcanic-rock fragments, 25 percent limestone, chert, and quartzite fragments	50	115
Gravel, very fine to medium with some coarse, and coarse to very coarse sand, clean and well-sorted; interval 170-185 ft contains interbedded very fine to medium gravel in 2- to 4-ft beds, and coarse gravel in 1-ft beds; gravel, subangular to rounded, 60 percent limestone, quartzite, and chert fragments, 40 percent volcanic-rock fragments; sand, subangular to rounded, 50-80 percent volcanic-rock fragments, 20-50 percent limestone and quartzite fragments; limestone and quartzite fragments in sand and gravel increase in amount with depth	70	185
Gravel, very fine to coarse, and very coarse sand;		

Table 4.--Logs of selected wells and test holes in the upper Sevier River basin - Continued

Test-hole logs - Continued

East Fork Valley - Continued

	Thickness	Depth
(C-33-2)22aab-1 (TH 12) - Continued.		
Recent and Pleistocene deposits - Continued:		
contains interbeds of light-tan to light-gray and white, clayey, sandy silt	85	270
Gravel and cobbles, in matrix of light-gray, yellow-tan, and white, clayey, sandy silt; gravel, same description as above	20	290
(C-33-2)33ccc-1 (TH 9). Alt. 7,293 ft.		
Recent and Pleistocene deposits:		
Clay, light pink-tan, very calcareous, contains fine to medium, rounded quartz grains	2	2
Silt and clay, tan to light-brown in beds 4 to 5 ft thick, interbedded with 6- to 12-in. beds of gray, sandy, and calcareous clay	26	28
Gravel, very fine to coarse, and very fine to very coarse sand; contains interbeds of yellow-tan to white, clayey silt; gravel, subangular to subrounded, 50 percent limestone, quartzite, and chert fragments, 50 percent volcanic-rock fragments; sand, subrounded to rounded quartz, and subrounded calcite fragments	37	65
Gravel and sand, interbedded with tan to light-brown sandy and clayey silt; part of gravel and sand relatively free of silt; gravel, 75 percent volcanic-rock fragments, 25 percent limestone and quartzite fragments; sand, subangular to subrounded, 75 percent quartz, feldspar, and calcite fragments, 25 percent volcanic-rock fragments and dark minerals	65	130
Silt, light yellow-tan to pink-tan, clayey, sandy	5	135
Gravel, medium to coarse, and cobbles, composed of volcanic-rock fragments	10	145
Gravel, fine, in matrix of brown, clayey silt; gravel, subangular to subrounded, 90 percent volcanic-rock fragments, 10 percent chert and limestone fragments	10	155
Gravel and sand, in yellow-tan to tan, clayey silt as described in interval 65-130 ft above	18	173
Silt, yellow-tan to tan, clayey, sandy, calcareous; contains small amount of interspersed very fine gravel and very coarse sand, which increase in amount between 195-205 ft	45	218
Gravel, very fine to very coarse, and cobbles, in yellow-tan to tan, sandy silt; gravel, subangular to rounded, volcanic-rock fragments	8	226
Silt, yellow-tan to tan, calcareous, clayey and sandy; clay increases in amount near bottom of interval	4	230
Silt, orange-tan to yellow-tan, interbedded with very fine to coarse gravel in 1- to 2-ft intervals; silt, clayey and sandy; gravel, as described above	7	237
Silt, clayey, to fine sand, light yellow-tan to orange-tan, calcareous; contains very coarse sand and very fine gravel; also contains cobbles at 281 ft; gravel, subangular to rounded, 75 percent volcanic-rock fragments, 25 percent limestone and calcite fragments above 285 ft, 60 percent limestone and chert fragments, and 40 percent volcanic-rock fragments below 285 ft	53	290
Gravel, very fine to very coarse, and coarse sand, in matrix of light yellow-tan to white, calcareous, silty clay to clayey silt; gravel, subangular to subrounded, 60 percent limestone and chert fragments, 40 percent volcanic-rock fragments; silt and clay become red-brown at 312 ft	25	315
Brian Head and Wasatch Formations:		
Silt, clayey, to silty clay, calcareous and sandy; contains interbeds of yellow-tan to red-brown, fine-grained sandstone to siltstone between 340-360 ft; also contains interspersed coarse sand to gravel in interval 315-372 ft; silt and clay, mostly yellow to yellow-gray and white, except some 1- to 5-ft intervals of orange-brown to orange-yellow, light-pink to light-purple, and red-brown	57	372
Silt, orange-tan to orange-red, sandy, clayey; contains maroon-red, fine-grained sandstone between 374-376 ft; sandstone composed mostly of calcite and quartz grains cemented by calcium carbonate and stained by iron-oxide	6	378
Silt, clayey, and silty clay, calcareous;contains interbeds of light-tan to yellow-brown, sandy shale and siltstone to fine-grained sandstone, which is loosely cemented with calcareous clay; also contains some interspersed, very coarse sand to fine gravel, composed of volcanic-rock fragments, between 400-440 ft; silt and clay, yellow-white to white, with some yellow-orange, pink, and yellow-tan	92	470
Silt and clay, as described in interval 378-470 ft above, except light orange-tan in color; contains an interbed of red-brown, ferruginous, fine-grained sandstone, composed of subangular quartz and calcite grains cemented by calcium carbonate	5	475
Silt, clayey to silty clay; contains interbeds of yellow-tan to red-brown, calcareous sandstone, and angular, very coarse, sand-sized volcanic-rock fragments from 518-550 ft; silt and clay, calcareous, sandy, light yellow-tan to yellow-white between 475-508 ft, orange-tan to red-tan between 508-516 ft, yellow-white between 516-540 ft, light-gray to pink and red between 540-550 ft	75	550
(C-33-2)33ddd-1 (TH 17). Alt. 7,300 ft.		
Recent and Pleistocene deposits:		
Silt, light pink-tan, clayey, slightly sandy, calcareous; small amount of interspersed fine gravel between 17-20 ft	20	20
Gravel, very fine to coarse; contains very coarse sand which increases in amount between 45-57 ft; also contains interbeds of pink-tan, sandy silt between 20-25 ft and 40-50 ft; gravel subangular to subrounded, 60 percent quartzite and chert fragments, 40 percent limestone fragments; sand, subangular to subrounded, 75 percent limestone and quartzite fragments, 25 percent chert, quartz, and other rock fragments	37	57
Silt, light pink-tan, clayey and sandy; contains coarse and very coarse sand, and very fine to medium gravel, as described in interval 20-57 ft above	8	65
Gravel, very fine to medium, and very coarse sand, in matrix of pink-tan, clayey and sandy silt	7	72
Silt, light pink-tan, clayey and sandy, contains very coarse sand and very fine to medium gravel as described in interval 20-57 ft above	11	83
Gravel, very fine to very coarse, and occasional cobbles; well-sorted and silt-free between 87-96 ft, otherwise dispersed in matrix of yellow-tan, pink-tan, and white, clayey silt; contains coarse to very coarse sand between 83-90 ft; gravel, approximately same composition as described in interval 20-57 ft above	57	140
Clay, silty, to clayey silt, light orange-tan, very plastic; contains fine to coarse, subangular to subrounded gravel of quartzite, chert, and limestone fragments	30	170
Gravel, coarse, with some fine to medium, in matrix of pink-tan to white, silty and sandy clay to clayey silt; contains some cobbles; gravel, subangular to subrounded, of approximately same description as interval 140-170 ft above	40	210
Clay, silty to clayey and sandy silt, light-tan to white, calcareous; contains interspersed very fine to very coarse gravel and cobbles	27	237
Gravel, very fine to very coarse, in matrix of light pink-tan to white clay and silt, and interbedded with pink-tan to light-brown, sandy silt in intervals 237-240, 247-254, and 256-257 ft; contains very fine to very coarse sand from 250-270 ft; gravel, subangular to subrounded, 60 percent limestone fragments, 40 percent chert, and quartzite fragments	36	273
Silt, light orange-tan, in beds 1 to 4 ft thick, interbedded with 1-ft intervals of very fine gravel interspersed in silt; silt contains clay and fine sand composed of quartz and calcite	17	290
Gravel, very fine to very coarse, in matrix of tan, yellow-tan, and yellow-white, clayey and sandy silt; contains interbed of pink-tan, clayey silt at 298-302 ft; gravel, subangular to subrounded, limestone, quartzite, and chert fragments	22	312
Silt, 4- to 5-ft intervals, interbedded with clay in 6- to 12-in. intervals; becomes gravelly at 340-345 ft; silt, pink to orange-tan, clayey and sandy; clay, yellow-gray to white, sandy	33	345
Gravel, very fine to very coarse, and cobbles; gravel, subangular to subrounded, 75 percent limestone, quartzite, and chert fragments, 25 percent volcanic-rock fragments; cobbles, volcanic-rock fragments	11	356
Clay, light yellow-tan to white, sandy, plastic	4	360
Upper Cretaceous rocks:		
Shale, moderately to well-consolidated, and clayey silt, gray to dark-gray, partly calcareous, contains small, black, organic particles; contains few interbeds of light-gray silt, thin interbeds of white, moderately-consolidated clay, and stringers of calcite in interval 400-410 ft; fragment of oyster(?) shell in interval 400-410 ft	56	416
Silt, and fine sand, to loosely-consolidated siltstone and sandstone, dark-gray to black; contains organic material which increases in occurrence with depth, appears in micro-laminations, and gives "sooty" appearance to silt; also contains light-gray silt interbeds, with occasional interbed of quartz sandstone cemented with calcite	4	420
Coal, black, mostly lignite(?), but some subbituminous(?) which increases in amount with depth; contains interbeds of white, sandy silt to clay in interval 440-450 ft; some lignite shows relic, organic-plant structure, some contains pyrite growths	30	450
Silt, white, clayey and sandy, and very fine to fine sand; contains interbeds of coal as described above; also contains interbeds of white to tan, fine-grained quartz sandstone cemented by calcite; some pyrite stringers; coal becomes harder and of higher rank in interval 460-470 ft; sand, subangular to subrounded quartz	20	470
Silt, white to light-gray, some tan and pale-orange, clayey, sandy; contains interbeds of calcareous, white to gray siltstone and fine-grained sandstone,		

Table 4.--Logs of selected wells and test holes in the upper Sevier River basin - Continued

Test-hole logs - Continued

East Fork Valley - Continued

	Thickness	Depth
(C-33-2)33ddd-1 (TH 17) - Continued.		
Upper Cretaceous rocks - Continued:		
gray calcareous shale, and white limestone; contains coal interbed in interval 480-485 ft	63	533
Siltstone, slayey, to shale, gray to dark-gray and gray-black, slightly calcareous, poorly consolidated, contains pyrite	3	536
(C-34-2)29ccd-1 (TH 11). Alt. 7,430 ft.		
Recent and Pleistocene deposits:		
Sand, very fine to very coarse, and very fine to very coarse gravel; contains interbed of tan, calcareous, sandy clay at 12-15 ft; very coarse, coarse, and medium sand, subangular to rounded, 75 percent limestone fragments, 25 percent quartzite and chert fragments; fine and very fine sand, 90 percent quartz, 10 percent dark minerals and sedimentary-rock fragments; gravel, subangular to rounded, 90 percent limestone fragments, 10 percent chert and quartzite fragments	45	45
Gravel, very fine to very coarse, in matrix of light-tan, sandy silt to sandy clay; gravel, subangular to subrounded, 75 percent limestone fragments, 25 percent chert, sandstone, and volcanic-rock fragments.	10	55
Silt and clay, sandy, contains interspersed very fine to fine gravel, and very coarse sand; silt and clay, light-tan to yellow-tan, calcareous; gravel, subrounded to rounded, same composition as described in interval 45-55 ft above	39	94
Gravel, very fine to very coarse, and very coarse sand, interspersed in matrix of light yellow-tan to brown, calcareous, silt and clay; contains occasional interspersed cobbles, and interbeds of yellow-tan, clayey, sandy silt between 94-99 and 113-118 ft; gravel and sand, subrounded to rounded, 75 percent limestone fragments, 25 percent chert and sandstone fragments	31	125
Gravel, very fine to medium, and sand; gravel, angular to subangular, 90 percent limestone fragments, 10 percent chert and sandstone fragments; contains interbeds of yellow-tan, clayey, sandy silt; gravel, mostly silt-free between 125-180 ft, becomes more silty and clayey between 180-219 ft	94	219
Gravel, fine to coarse, and cobbles, in yellow-tan sandy silt	4	223
Upper Cretaceous rocks:		
Silt, and very fine to fine sand, in matrix of calcareous, yellow-tan, to yellow-green clay; contains interbeds of poorly cemented siltstone and sandstone; sand, rounded, quartz, calcite fragments, and other minerals	29	252
Sandstone, fine- to medium-grained, white to yellow-tan, poorly cemented with calcite; medium sand grains, 75 percent clear subrounded quartz, 10 percent subrounded altered feldspar, 15 percent subangular calcite, less than 1 percent dark minerals; fine sand grains, 90 percent quartz and feldspar, 10 percent calcite and other minerals or rock fragments	44	296
Limestone, argillaceous and partly silty, to calcareous mudstone, light-gray to gray; contains interbeds of fine-grained, yellow to red-brown sandstone between 299-302 ft and between 312-314 ft; sand grains, quartz, subangular to subrounded, calcite cemented	22	318
Silt, clayey to silty clay, light-gray to gray, slightly sandy, calcareous	34	352
Silt, clayey and sandy, to sandy clay, light-gray to brown, calcareous; contains interbeds of light-gray sandstone throughout interval, and dark-brown to black coal between 354-355, 365-368, 388-390, and 394-396 ft; coal beds underlain by brown, clayey silt to silty clay; interval also contains interbeds of light-tan, loosely cemented quartz sandstone between 384-385 and 391-393 ft; coal, brown, dull-luster lignite, and hard, black, shiny subbituminous(?)	48	400
Silt, light-gray to brown; contains coal as described in interval 352-400 ft above; coal occurs between 404-405, 411-412, 437-438, and 473-474 ft; also contains interbeds of loosely consolidated, white to yellow-brown sandstone in interval 400-420 and 435-436 ft, light-tan to white and pink, silty limestone in interval 400-420 ft, and very fine gravel of limestone and chert fragments in interval 440-460 ft	80	480
(C-34-2)30ccc-1 (TH 10). Alt. 7,405 ft.		
Recent and Pleistocene deposits:		
Clay and silt, light yellow-tan, changes to light gray-brown at 8 ft; contains very fine gravel and fine to coarse sand	12	12
Sand, very fine to very coarse, and very fine to coarse gravel; amount of sand diminishes with depth; contains some cobbles below 35 ft; sand, subangular to subrounded, mostly quartz and other mineral fragments; gravel, subangular to subrounded, 90 percent volcanic-rock fragments, 10 percent chert, quartzite, and sandstone fragments	33	45
Gravel, very fine to medium, and coarse sand; contains interbeds of light, yellow-tan, clayey and sandy silt; gravel and sand, subangular to subrounded, volcanic-rock fragments	30	75
Silt, light-gray to yellow and pink, sandy and clayey; contains interbeds of coarse sand, and fine to medium gravel; gravel, subangular to subrounded, volcanic-rock fragments	25	100
Brian Head and Wasatch Formations:		
Silt, clayey and sandy, to silty clay, light-yellow to pink, slightly calcareous; contains few interbeds of very fine-grained, light yellow-brown to orange-brown, quartz sandstone; sandstone grains clear, subrounded, iron-oxide stained, loosely cemented with calcium carbonate	63	163
Clay, silty to clayey silt, light-yellow and pink to maroon, calcareous; contains interbeds of pink and yellow, poorly consolidated, calcareous claystone, siltstone and limestone; also contains interspersed fine to coarse gravel and cobbles of volcanic-rock fragments	20	183
Clay, silty, to clayey silt, interbedded with loosely consolidated claystone and siltstone, light-gray to lavender-gray, changing to gray, calcareous; contains some carbonaceous material	17	200
Clay and claystone, interbedded with silt, siltstone, and limestone, light-yellow and maroon to pink, changes to yellow-tan at 240 ft; contains gravel between 203-204 ft	30	230
Clay and silt, light-yellow to yellow-tan, changes to maroon and pink at 279 ft, calcareous; contains interspersed very fine to fine, subangular to subrounded quartz sand; also contains several interbeds of yellow and maroon, silty claystone below 280 ft, and very fine to fine volcanic gravel between 278-279 and 290-292 ft	68	298
Clay and silt, light gray to gray, calcareous, organic; contains very coarse sand to very fine gravel, of subangular to subrounded volcanic-rock fragments	22	320
Silt, light yellow-tan to yellow and pink, and light-gray, streaked with red-brown, clayey, sandy, calcareous; contains coarse sand to fine gravel of volcanic-rock fragments which increase in amount below 340 ft; also contains several interbeds of poorly consolidated, maroon siltstone	40	360
Sand, very fine, in calcareous, yellow-tan clay; sand, clear, subangular to subrounded quartz; contains fine gravel as described from 230-298 ft	35	395
Silt, red-pink to light-gray, clayey; contains interbeds of red-pink, sandy siltstone and limestone	5	400
Clay, light gray to gray, calcareous, silty; contains very fine grained quartz sand, and medium to coarse sand of volcanic-rock fragments; also contains several interbeds of calcareous, pink to orange-red, sandy claystone	12	412
Sand, very fine to fine, in matrix of calcareous clay and silt; contains interbeds of maroon to red, sandy, claystone and siltstone, and coarse sand to very fine gravel composed of volcanic-rock fragments; sand composed of clear, subrounded quartz grains; clay and silt, gray to white between 412-418 ft, gray between 418-420 ft, pinkish-red and orange-red to yellow between 420-438 ft, and bright pink-red to orange-red between 438-460 ft	48	460
Sand, very fine to fine, and silt, in calcareous clay, light orange-red to orange-tan, with intervals of light gray to gray, carbonaceous clay; contains interbeds of maroon-red and gray, calcareous claystone and siltstone; also contains volcanic-rock fragments as above, which increase in amount and angularity	40	500
Silt and clay, interbedded with siltstone and claystone, yellow, yellow-tan, maroon, and white to gray, partly calcareous, sandy; gray clay is calcareous and carbonaceous	20	520

Table 4.--Logs of selected wells and test holes in the upper Sevier River basin - Continued

Test-hole logs - Continued

Grass Valley

	Thickness	Depth
(C-27-1)2caa-2 (TH 14). Alt. 6,816 ft.		
Recent and Pleistocene deposits:		
Silt, brown, and very fine to very coarse sand; silt, sandy and clayey; sand, occurs as stringers, angular to subrounded quartz and volcanic-rock fragments	9	9
Silt, brown, and sand and gravel; silt, sandy and clayey, matrix for gravel; sand occurs as stringers in silt; gravel, very fine to medium, angular to subrounded, volcanic-rock fragments	27	36
Silt, light-tan and brown, sandy and clayey; contains very fine to medium gravel of volcanic-rock fragments.	16	52
Silt, gray, blue-gray, light-tan, light-brown, sandy and clayey; contains microfossils	18	70
Sand, very fine to very coarse, and tan and brown silt; sand, angular to subrounded, quartz and volcanic-rock fragments; silt, sandy and clayey	21	91
Silt, light-gray, gray, and light-brown, sandy and clayey; contains microfossils	49	140
Silt, light blue-gray, light-gray, and brown, sandy and clayey, and very fine to very coarse sand in 6- to 12-in. beds at 6-in. to 2-ft intervals; silt, mostly light blue-gray and gray from 195-265 ft; sand, angular to subrounded quartz and volcanic-rock fragments	125	265
Sand, very fine to very coarse, and very fine to fine gravel; sand, angular to rounded, quartz and volcanic-rock fragments; gravel, angular to rounded, volcanic-rock fragments	5	270
Silt, 5-ft thick beds, interbedded with 1- to 3-ft beds of very fine to very coarse sand, and very fine to fine gravel; silt, blue-gray and gray, sandy, light-gray, clayey	40	310
Peat, interbedded with light-gray to gray, clayey and sandy silt	5	315
Silt, clayey and sandy, with interbeds of very fine to very coarse sand and very fine to fine gravel between 328-332 and 336-339 ft; silt, light-gray and clayey, blue-gray to gray and sandy, light-tan interval between 340-344 ft	35	350
Sand, very fine to very coarse, and very fine to fine gravel, in beds 1 to 2 ft thick interbedded with gray to dark-gray, sandy silt; sand, quartz and volcanic-rock fragments; gravel, volcanic-rock fragments	20	370
Silt, brown to dark gray-brown, sandy and clayey; contains very fine to medium gravel	54	424
Sand, very fine to very coarse, and very fine to medium gravel; sand and gravel, angular to rounded, volcanic-rock fragments	4	428
Silt, light-gray to gray, contains dark-brown carbonaceous material	2	430
Silt, light-gray to gray, sandy; contains sand, and very fine to fine gravel in beds 6 to 12 in. thick at 3- to 5-ft intervals	33	463
Silt, light-gray to gray, clayey; contains sand and very fine to fine gravel in beds 6 to 12 in. thick at 3- to 5-ft intervals	12	475
Gravel, very fine to fine, and very fine to very coarse sand of quartz and volcanic-rock fragments	5	480
Silt, light-gray to gray and blue-gray, clayey and sandy; contains sand and very fine to medium gravel in 6- to 12-in. interbeds at 3- to 5-ft intervals; also contains an interbed of brown, carbonaceous material between 496-497 ft	17	497
Gravel, very fine to very coarse, in matrix of brown, clayey silt; gravel, angular to subrounded, volcanic-rock fragments	6	503
Tertiary volcanic rock	3	506
(C-27-1)15cba-1 (TH 19). Alt. 6,796 ft.		
Recent and Pleistocene deposits:		
Gravel, very fine to very coarse, sand, and small cobbles; gravel, angular to rounded, volcanic-rock fragments; sand, very fine to very coarse, angular to subrounded quartz and volcanic-rock fragments; cobbles, subangular to rounded, volcanic-rock fragments	38	38
Silt, light-gray to gray, partly light yellow-green, sandy, and silty; contains interbeds of sand, and very fine to fine gravel between 60-63, 72-77, and 91-94 ft	60	98
Gravel, very fine to coarse, and sand; gravel, angular to rounded volcanic-rock fragments; sand, very fine to very coarse, angular to subrounded quartz and volcanic-rock fragments	6	104
Silt, light-gray, gray, blue-gray and tan, sandy and clayey; contains sand and very fine to fine gravel interbeds 6 in. to 2 ft thick at 3- to 5-ft intervals.	39	143
Silt, light-tan, tan, light-gray, gray, and blue-gray, sandy and clayey; the varicolored silts are interbedded at intervals of 1 to 3 ft	18	161
Silt, light-gray, gray, and blue-gray, sandy and silty; contains interbeds of sand and very fine to fine gravel 6 to 12 in. thick at 3- to 5-ft intervals; also contains gray, very hard clay in layers 1 to 3 in. thick	44	205
(C-27-1)15cba-1 (TH 19) - Continued.		
Recent and Pleistocene deposits - Continued:		
Silt, light-tan to tan, sandy and clayey; contains interspersed very fine to fine gravel and interbeds of fine gravel 6 to 12 in. thick	30	235
Gravel, very fine to medium, and coarse to very coarse sand, in matrix of tan, sandy silt; gravel and sand, angular to rounded, volcanic-rock fragments	21	256
Silt, gray and blue-gray, sandy and clayey; contains interbeds of sand and vary fine to fine gravel 6 to 12 in. thick at 3- to 5-ft intervals; also contains very hard, gray clay in beds 1 to 3 in. thick	29	285
Gravel, very fine to coarse, and very fine to very coarse sand in matrix of brown, sandy silt; gravel and sand, angular to rounded, volcanic-rock fragments	9	294
Silt, light-brown to brown, sandy; contains 1-ft interbed of white to very light-brown silt	4	298
Gravel, very fine to coarse, and very fine to very coarse sand; contains very sandy, brown silt; gravel and sand, angular to rounded, volcanic-rock fragments.	9	307
Silt, light-brown, sandy	5	312
Gravel, very fine to very coarse, and very fine to very coarse sand; contains interbeds of light-tan, sandy and clayey silt, 3 to 5 ft thick at 10- to 15-ft intervals; sand and gravel, angular to rounded, volcanic-rock fragments	79	391
Silt, brown, clayey and sandy; contains interspersed coarse to very coarse sand and very fine to fine gravel; also contains coarse to very coarse gravel between 396-398 and 409-411 ft; interval 420-441 ft contains light-tan, tan, light-brown, and brown silt	50	441
Gravel, very fine to very coarse, and small cobbles, in matrix of light-brown, sandy silt; contains thin beds of light-tan, sandy clay; gravel and cobbles, angular to rounded, volcanic-rock fragments	12	453
Silt, tan, light-brown and brown, sandy, clayey; contains some interspersed very fine to coarse gravel	7	460
Gravel, very fine to very coarse, and small cobbles, in matrix of tan and brown sandy silt; gravel and cobbles, angular to rounded volcanic-rock fragments	5	465
Silt, light-tan, tan, orange-brown and dark-brown, sandy and clayey	9	474
Gravel, very fine to very coarse, and small cobbles, in matrix of tan, brown, and dark-brown, sandy and clayey silt; gravel and cobbles, angular to rounded, volcanic-rock fragments	9	483
Silt, light-tan, tan, brown, dark-brown, sandy and clayey; contains interspersed very fine to fine gravel	22	505
Tertiary volcanic rock	20	525
(C-27-1)27bac-1 (TH 15). Alt. 6,755 ft.		
Recent and Pleistocene deposits:		
Gravel, very fine to very coarse, with sand and brown, sandy silt; gravel, angular to rounded, volcanic-rock fragments	29	29
Clay, light-gray to gray, silty; contains brown, sandy silt between 46-52 and 54-58 ft	29	58
Clay, light-gray to gray, silty and sandy	7	65
Clay, light to dark-gray and light blue-gray, silty and sandy; contains very fine to very coarse, angular to rounded sand and very fine gravel, in thin beds between 66-68, 82-84, 87-89, 98-102, 105-107, 133-134, and 140-142 ft; light to dark-gray clay contains silt; light blue-gray clay contains silt and very fine sand composed of angular volcanic-rock fragments, angular to rounded quartz, and darker clay fragments	80	145
Clay, gray to blue-gray, silty; contains thin interbeds 6 to 12 in. thick of very fine to very coarse sand and very fine gravel at 2- to 3-ft intervals; sand and gravel, angular to subrounded, volcanic-rock fragments and quartz	63	208
Clay, light to dark-gray, silty, with interbeds 2 to 4 ft thick of very fine to very coarse sand and very fine gravel at 6- to 8-ft intervals; sand and gravel, volcanic-rock fragments	52	260
Sand and gravel in beds 2 to 10 ft thick, interbedded with light-yellow to light-brown sandy and clayey silt in beds 2 to 5 ft thick; sand, very fine to very coarse, angular to rounded, volcanic-rock fragments; gravel, very fine to medium, angular to rounded, volcanic-rock fragments; contains coarse to very coarse gravel from 330-369 ft	109	369
Silt, tan to brown, sandy	7	376
Gravel, very fine to medium, in matrix of light to dark-brown sandy silt; gravel, angular to rounded, volcanic-rock fragments	14	390
Silt, light to dark-brown, sandy	14	404
Gravel, very fine to coarse, and very fine to very coarse sand, interbedded with silt and clay in 8-ft intervals; gravel, angular to rounded, volcanic-rock fragments; sand, volcanic-rock fragments and quartz; silt, light to dark-brown, sandy and clayey; clay, gray and silty	76	480

Table 4.--Logs of selected wells and test holes in the upper Sevier River basin - Continued

Test-hole logs - Continued

Grass Valley - Continued

	Thickness	Depth
(C-27-1)27bac-1 (TH 15) - Continued.		
Recent and Pleistocene deposits - Continued:		
Gravel, very fine to coarse, in matrix of brown and gray silt; gravel, angular to rounded, volcanic-rock fragments	24	504
Gravel, coarse to very coarse, and small cobbles, in matrix of brown, clayey silt; gravel and cobbles, angular to rounded, volcanic-rock fragments	13	517
Silt, tan, light-brown, and gray, sandy to clayey; contains interspersed very fine to very coarse gravel and small cobbles	72	589
Gravel, very fine to very coarse, and small cobbles, in matrix of red-brown clayey silt; gravel and cobbles, angular to rounded, volcanic-rock fragments	6	595
Silt, orange-red, red-brown, sandy; contains very fine to fine, angular to subrounded gravel	5	600
Gravel, very fine to very coarse, and small cobbles, in matrix of red-brown silty clay; contains 6- to 12-in. beds of tan and brown, sandy silt; gravel and cobbles, angular to subrounded, volcanic-rock fragments	36	636
Cobbles, small, and very fine to very coarse gravel, in matrix of light-tan and gray clayey silt; cobbles and gravel, angular to subangular, volcanic-rock fragments	10	646
Gravel, very fine to very coarse, and small cobbles, in matrix of white, light-gray, tan, and brown, sandy and clayey silt; gravel, angular to subangular, volcanic-rock fragments	74	720
Silt, orange-tan, tan, brown, and light-gray, clayey and sandy; contains very fine to fine gravel	35	755
Gravel, very fine to fine, in matrix of light-gray, light-tan, and brown clayey silt; gravel, angular to subrounded, volcanic-rock fragments	12	767
Cobbles, small, and very coarse gravel in matrix of brown, clayey silt; volcanic-rock fragments	3	770
(C-29-2)26dac-1 (TH 18). Alt. 6,410 ft.		
Recent and Pleistocene deposits:		
Silt and clay, light-brown to brown	3	3
Gravel, very fine to very coarse, angular to rounded, volcanic-rock fragments	5	8
Silt, light-tan to light-brown; contains very fine sand	7	15
Gravel, very fine to very coarse, silt-free to silty and clayey; contains 1- to 2-ft beds of sandy silt and clay between 35-50 ft; gravel, angular to rounded, volcanic-rock fragments	35	50
Gravel, very fine to very coarse, angular to rounded volcanic-rock fragments; contains sandy silt	35	85
Silt, tan to light-brown; contains clay, very fine sand, and very fine to fine gravel	16	101
(C-29-2)26dac-1 (TH 18) - Continued.		
Recent and Pleistocene deposits - Continued:		
Gravel, very fine to very coarse, and small cobbles, angular to rounded, volcanic-rock fragments	9	110
Gravel, very fine to coarse, in matrix of tan to light-brown, sandy and clayey silt; contains 1- to 2-ft beds of light-brown to light pink-tan, sandy silt at 5- to 6-ft intervals; gravel, angular to rounded, volcanic-rock fragments	30	140
Gravel, very fine to very coarse, small to large cobbles, in matrix of light to dark-brown, sandy and clayey silt; contains few 1-ft interbeds of sandy and clayey silt; gravel and cobbles, angular to rounded, volcanic-rock fragments	45	185
Gravel, very fine to coarse, in matrix of light to dark-brown, sandy silt; gravel, angular to rounded, volcanic-rock fragments	15	200
Silt, light-tan, light to dark-brown, and red-brown, sandy and clayey; contains some very fine to coarse gravel	45	245
Gravel, very fine to medium, in matrix of light to dark-brown sandy silt; gravel, angular to subrounded, volcanic-rock fragments	42	287
Silt, light to dark-tan and light-brown, sandy and clayey; contains interspersed very fine gravel, and interbeds of very fine to very coarse gravel and small cobbles 6 to 12 in. thick at 3- to 5-ft intervals	23	310
Gravel, very fine to very coarse, angular to rounded, and small cobbles, volcanic-rock fragments	15	325
Silt, white, light-tan, tan, yellow-tan, and pink-tan, sandy and clayey; contains interspersed very fine to medium gravel; also contains coarse gravel between 345-346 ft	45	370
Gravel, very fine to very coarse, and small cobbles, in matrix of tan to brown sandy silt; gravel and cobbles, angular to rounded, volcanic-rock fragments	25	395
Cobbles, small to large, and very fine to very coarse gravel; cobbles and gravel, angular to rounded, volcanic-rock fragments; contains minor amount of silt	15	410
Gravel, very fine to very coarse, in matrix of light-tan and light-brown to brown, sandy silt; contains dark rusty-brown silt with streaks of white clay between 430-490 ft; gravel, angular to rounded, volcanic-rock fragments	80	490
Tertiary volcanic rock	6	496

1/ Test hole 21 of central Sevier Valley drilling program, see Carpenter, C. H. and Young, R. A., 1963, Ground-water data, central Sevier Valley, parts of Sanpete, Sevier, and Piute Counties, Utah: U.S. Geol. Survey open-file rept. (duplicated as Basic-Data Rept. No. 3), p. 32.

2/ Test hole 22 of central Sevier Valley drilling program, see Young, R. A., 1960, Ground-water areas and well logs, central Sevier Valley, Utah: U.S. Geol. Survey open-file rept., p. 6.

Table 5.--Chemical analyses of water from selected wells and springs in the upper Sevier River basin

Well or spring number	Depth of well[1] (feet)	Date of collection	Temperature (°F)	Parts per million: Silica (SiO_2)	Iron[2] (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Na + K: Sodium (Na)	Na + K: Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids[3]	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos/cm at 25°C)	pH	Analysis by[4]
Panguitch Valley																									
(C-32-5)																									
26aca-2	88	5-14-62	57	25	-	-	31	5.6	16		140	0	8.0	8.0	-	0.7	0.04	185	100	0	26	0.7	245	7.5	GS
35abb	S	5-14-62	57	46	-	-	72	22	26		361	0	10	12	-	3.0	.06	351	270	0	17	.7	568	7.8	GS
35bab-1[5]	456	7-16-62	59	48	0.01	-	36	7.1	14		159	0	4.5	8.5	0.5	.6	.04	206	119	0	20	.5	282	7.3	GS
(C-33-5)																									
4ddd-1[6]	83	4- 1-55	-	40	[7].2	-	54	25	62		400	-	10	22	1.1	1.2	-	429	238	0	36	1.7	-	-	DH
16cdc	S	5- 3-62	68	50	.00	-	35	6.3	35		186	0	14	16	.3	.9	.06	218	114	0	40	1.4	346	8.2	GS
28bcd-1	190	5-24-61	55	25	.01	0.00	36	2.4	23	1.4	164	0	3.3	8.0	.6	2.9	.06	176	100	0	33	1.0	287	7.7	GS
		5- 3-62	55	-	-	-	-	-	31		282	0	26	7.0	-	-	-	300	200	0	25	1.0	483	7.7	GS
		9-23-63	55	-	-	-	-	-	28		245	0	6.2	11	-	-	-	259	161	0	28	1.0	399	7.7	GS
(C-33-6)																									
5ccb	S	6-28-62	64	31	-	-	17	3.6	27	1.8	116	0	4.5	11	.2	.6	.02	154	57	0	50	1.6	221	7.8	GS
(C-34-5)																									
2cbc-1	171	5- 3-62	50	35	.00	-	80	24	48		454	0	16	5.5	.1	8.0	.04	402	300	0	26	1.2	690	7.7	GS
34aac	S	5- 3-62	52	46	.08	-	80	26	17		380	0	14	10	.5	1.8	.06	350	306	0	11	.4	603	7.7	GS
(C-34-6)																									
18c[8]	S	12- 7-40	-	17	.1	-	22	2.2	10		98	-	4.8	7.0	0	0	-	131	65	0	36	.6	-	7.5	DH
		6-27-50	-	28	.01	-	22	4.5	7.8	4.2	100	0	3.5	3.3	.4	.2	.00	118	73	0	18	.4	167	7.7	GS
		8- 6-55	-	27	[7].3	-	26	.2	14		93	-	15	3.0	.6	1.5	-	118	66	0	32	.8	-	7.2	DH
		5-14-62	51	28	[7].28	-	24	4.6	7.4	.4	107	0	4.3	4.0	.1	.1	.02	129	80	0	17	.4	180	7.5	GS
(C-35-5)																									
24ccb-1[9]	350	1-24-55	-	48	[7]/5.0	-	97	34	86		584	-	69	12	.0	0.0	-	613	382	0	33	1.9	-	7.5	DH
24dc[10]	S	3- 3-55	-	9.2	[7].00	-	68	24	22		324	-	34	8.0	.3	1.2	-	294	268	2	15	.6	-	-	DH
(C-36-5)																									
29dcd-1[11]	216	4-10-48	-	36	0	-	45	8.1	6.9		177	-	6.2	7.0	.1	0	-	211	145	1	9	.2	-	-	DH
		6- 7-49	-	44	-	-	50	10	6.1		191	0	8.6	7.0	.1	4.5	.00	224	166	9	7	.2	333	-	GS
		1-26-50	-	39	.3	-	47	10	4.4		188	-	5.2	6.7	.2	2.2	-	226	157	4	6	.2	-	8.3	DH
		5- 3-62	55	45	.00	-	57	7.3	6.1		198	0	8.6	7.5	.1	3.9	.02	216	172	10	7	.2	343	7.9	GS
(C-36-7)																									
31dac	S	7-14-54	40	-	-	-	-	-	-		92	0	-	2.5	-	-	-	-	70	0	-	-	152	7.3	GS
		8- 6-54	40	20	-	-	20	4.7	6.4		92	0	3.6	2.5	-	1.0	-	[12]/103	70	0	17	.3	152	7.9	GS
(C-37-6)																									
32dac	S	7-13-54	47	-	-	-	-	-	-		271	0	3.0	-	-	-	-	-	221	0	-	-	410	7.5	GS
		8- 3-54	48	9.0	-	-	54	22	3.7		271	0	7.4	20	-	.7	-	[12]/210	224	2	3	.1	408	7.6	GS
		8-11-54	47	9.2	-	-	52	23	3.0		259	6	4.0	2.5	-	.7	-	[12]/227	223	1	3	.1	406	8.3	GS
33bc	S	7-13-54	51	-	-	-	-	-	-		182	-	-	2.5	-	-	-	-	149	0	-	-	282	7.4	GS
		8- 3-54	50	11	-	-	41	13	8.0		193	0	11	2.5	-	.7	-	[12]/182	156	0	10	.3	294	7.7	GS
		8-11-54	50	10	-	-	38	12	5.8		182	0	3.6	2.5	-	.7	-	[12]/163	146	0	8	.2	280	7.8	GS
(C-38-8)																									
12cd	S	7-16-54	50	-	-	-	-	-	-		130	-	-	2.5	-	-	-	-	104	0	-	-	207	7.4	GS
		8- 2-54	45	12	-	-	33	8.1	5.5		145	0	4.1	2.5	-	1.0	-	[12]/137	116	0	9	.2	226	7.7	GS
		8- 4-54	45	9.1	-	-	27	5.3	7.6		115	0	6.6	3.0	-	1.0	-	[12]/117	90	0	16	.3	181	7.6	GS
		8-21-54	-	13	-	-	-	-	-		128	0	3.7	-	-	-	-	-	104	0	-	-	203	8.2	GS
Circle Valley																									
(C-30-3)																									
16bbb-1[13]	407	7-22-57	55	52	[7]/0.10	[7]/0.16	42	8.5	28	4.4	106	0	103	14	3.1	0.5	-	314	138	53	28	1.0	434	8.0	GS
		5-13-59	60	113	-	-	38	8.5	36		113	0	93	14	-	0	-	[12]/358	131	38	37	1.4	409	7.8	GS
		5- 9-60	58	74	-	-	39	7.3	33		108	0	89	13	-	.7	-	[12]/309	128	39	36	1.3	394	7.9	GS
		5-22-61	57	54	.32	-	39	8.3	30	3.7	106	6.0	90	12	.2	1.7	0.14	296	132	35	32	1.1	399	8.5	GS
17cba	S	5-14-62	59	51	-	-	52	6.1	30		184	0	51	9.0	-	2.8	.06	291	154	3	30	1.0	418	7.6	GS
(C-30-4)																									
14dac-1	-	6-28-62	59	54	.00	-	58	6.1	29	6.3	114	0	132	9.5	.2	1.6	.04	360	170	77	26	1.0	481	7.6	GS
16ab	S	12- 3-62	44	35	-	-	9.6	2.7	6.0		52	0	1.9	2.5	-	0	-	86	35	0	27	.4	85	7.2	GS
21c	S	10-24-51	-	50	[7].24	-	26	1.4	35		142	-	14	9.7	.5	.4	-	179	70	0	52	1.8	-	7.8	DH
25bcc-1	133	5-13-59	54	107	-	-	90	20	36		387	0	40	11	-	12	-	[12]/506	306	0	20	.9	700	7.5	GS
26dcb-1[14]	325	7-22-57	59	41	[7]/2.6	[7].03	40	9.8	16	3.6	149	0	52	4.9	2.9	.3	-	249	140	18	18	.6	355	7.8	GS
		5-13-59	60	117	-	-	39	10	25		155	0	55	7.5	-	.4	-	[12]/330	140	13	28	.9	360	7.9	GS
		5- 9-60	60	76	-	-	41	9.5	23		154	0	53	6.0	-	.7	-	[12]/285	141	15	26	.8	380	7.7	GS
		5-22-61	59	47	1.6	-	40	11	20	3.6	158	0	58	5.0	.2	1.5	.10	260	146	16	22	.7	362	7.6	GS
East Fork Valley																									
(C-30-2½)																									
17d	S	5-14-53	-	18	0.82	-	44	5.8	32		206	-	5.9	18	0.4	4.4	-	232	134	0	34	1.2	-	7.5	DH
(C-30-3)																									
24aab[15]	S	7-21-57	55	41	[7].04	[7]/0.02	25	1.4	20	2.1	123	0	4.6	7.9	3.2	.6	-	159	68	0	35	1.1	230	7.4	GS
(C-31-2)																									
19bb[16]	S	1-25-50	-	34	.8	-	36	8.1	15		135	-	5.0	5.7	.4	.9	-	[12]/173	124	13	21	.6	-	8.0	DH
		7- 5-62	55	43	.00	-	43	4.4	15	1.5	174	0	7.0	8.0	.3	.6	0.08	203	126	0	20	.6	294	7.5	GS

Table 5.--Chemical analyses of water from selected wells and springs in the upper Sevier River basin - Continued

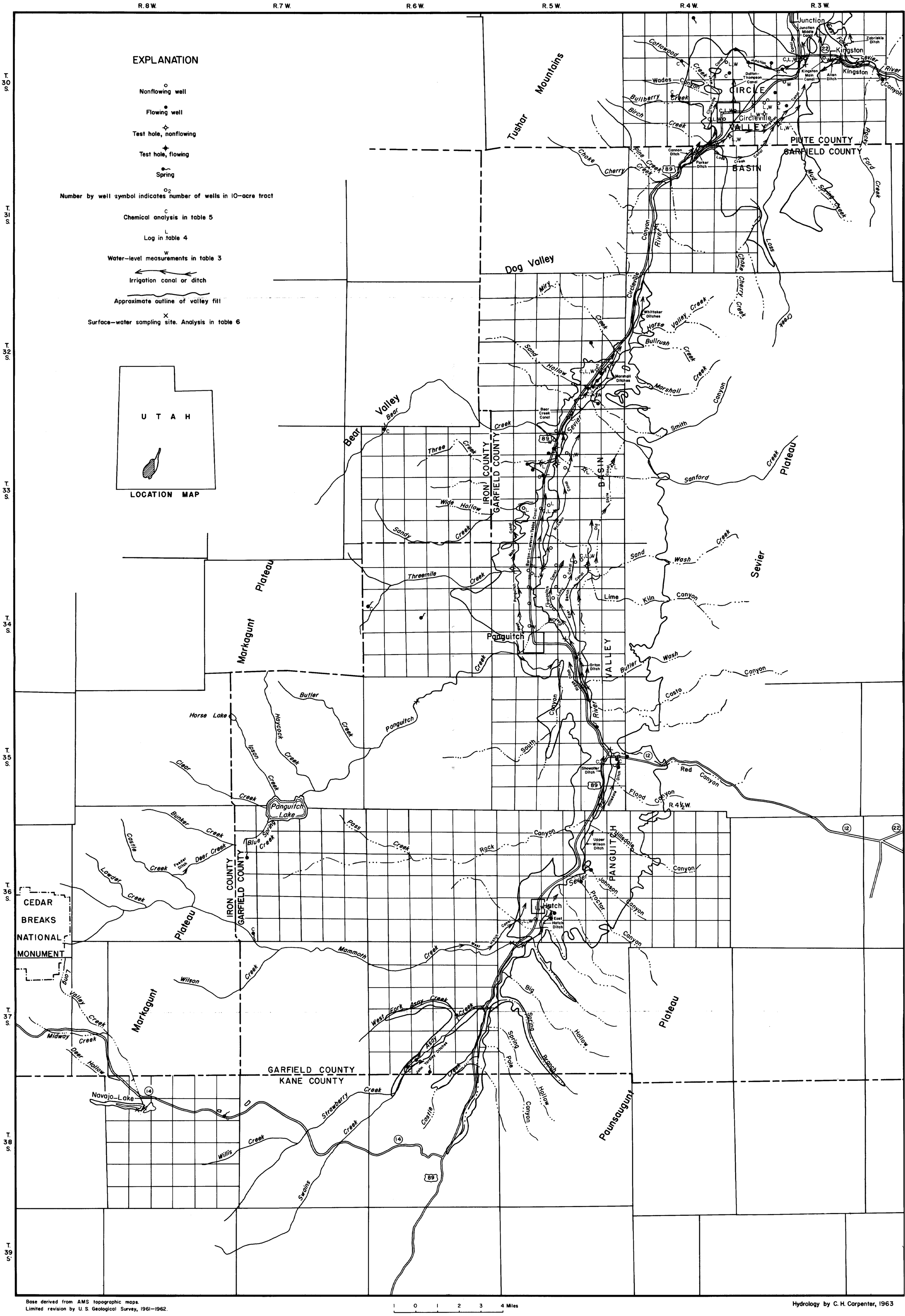
Well or spring number	Depth of well 1/ (feet)	Date of collection	Temperature (°F)	Parts per million: Silica (SiO_2)	Iron 2/ (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Na + K: Sodium (Na)	Na + K: Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids 3/	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos/cm at 25°C)	pH	Analysis by 4/
East Fork Valley - Continued																									
(C-31-2)																									
23bcd-1	90	5-23-61	58	32	-	-	84	6.3	1.5	2.5	292	0	20	6.5	0.2	8.2	0.05	316	235	0	12	0.4	498	7.6	GS
		5-28-62	60	34	-	-	85	8.5	17		288	0	31	8.0	-	6.4	-	332	247	11	13	.5	509	7.6	GS
23ccd-1	59.5	7- 5-62	51	32	0.01	-	75	11	7.6		284	0	9.9	1.0	.3	7.5	.03	300	235	2	7	.2	473	7.5	GS
(C-32-2)																									
2acd	S	6- 7-62	50	34	.01	-	51	16	13		234	0	12	12	.1	2.3	.05	259	194	2	13	.4	420	7.8	GS
23adb	S	6-26-62	50	25	.00	-	74	18	14	1.8	318	0	16	10	.2	2.6	.06	299	258	0	10	.4	519	7.9	GS
(C-34-3)																									
27ddc	S	7-31-62	50	30	-	-	53	14	18		246	0	17	6.0	.2	.9	.04	246	191	0	17	.6	408	7.8	GS
(C-36-3)																									
6dba-1	83	7-11-52	-	12	7/1.6	-	24	23	9.1		184	-	12	4.8	.1	.8	-	168	153	4	11	.3	-	8.1	DH
		5-28-62	53	8.8	7/.99	-	54	21	13		258	0	21	12	-	.2	-	238	223	11	11	.4	439	8.1	GS
		9-24-63	59	-	7/.30	-	-	-	11		254	0	13	13	-	-	-	226	217	9	10	.3	426	7.7	GS
7aac-1	15	3-30-39	-	4.8	.1	-	76	77	14		381	-	22	142	-	5.2	-	778	506	194	6	.3	-	-	DH
7bbc-1	230	5-21-57	-	9.5	-	-	42	18	5.3		207	0	11	6.0	-	.2	-	12/194	178	8	6	.2	350	7.9	GS
(C-36-4)																									
34bda-1	80	5-19-57	-	6.1	.00	.03	45	32	2.4	.5	299	0	3.4	4.8	.4	1.5	.03	244	246	1	2	.1	442	7.3	GS
(C-37-4)																									
11ddd-1 17/	2,000	9- 59	-	1.7	-	-	40	36	9.4		310	0	6.6	5.5	-	.5	-	12/252	249	0	8	.3	464	7.9	GS
17bba	S	6-26-62	44	6.4	-	-	39	31	3.3	.6	271	0	5.6	4.0	.1	.1	.02	220	225	3	3	.1	413	8.1	GS
Grass Valley																									
(C-25-1)																									
26bc	S	7- 6-62	50	33	7/0.02	-	23	3.9	4.9	1.2	92	0	2.5	5.0	0.3	0.1	0.02	120	74	0	12	0.2	158	7.5	GS
(C-26-1)																									
23ddb-1	200	5-13-59	53	46	-	-	24	3.2	10		100	0	1.9	7.0	-	.4	-	12/142	72	0	23	.5	180	7.4	GS
		5-11-60	54	46	-	-	24	3.9	14		100	0	9.9	9.0	-	.6	-	12/156	76	0	28	.1	189	7.8	GS
		5-23-61	53	41	-	-	26	2.9	10	2.4	100	0	11	6.0	.2	1.0	-	140	76	0	22	.5	188	7.5	GS
35dcb-2	225	8-15-62	54	34	-	-	25	6.1	9.5		111	0	6.6	7.0	.3	.2	.06	146	88	0	19	.4	205	7.2	GS
(C-27-1)																									
1cbb-1	250	7- 5-62	52	39	7/.00	-	18	4.9	10		91	0	4.1	5.5	.3	.3	.05	131	65	0	26	.6	158	7.5	GS
27abc-2	260	7- 5-62	51	53	.01	-	30	5.4	14		133	0	5.8	7.0	.4	.5	.05	189	96	0	24	.6	238	7.5	GS
(C-29-2)																									
15cdb	S	7- 6-62	55	42	.01	-	32	8.0	11		143	0	5.4	9.0	.3	.4	.04	180	113	0	17	.4	256	7.6	GS
35bad-1	197	7- 5-62	54	43	.00	-	61	14	18		211	0	24	35	.2	2.0	.04	318	210	37	16	.5	487	7.5	GS
(D-25-1)																									
17ddc-1 18/	52	9- 4-57	58	40	7/.03	7/0.00	19	3.8	11	3.7	79	2.0	3.4	11	.3	2.5	-	129	63	0	26	.6	183	8.4	GS
(D-26-1)																									
30ab	S	8-22-62	55	29	7/.02	-	16	1.5	7.5		67	0	2.3	4.0	.1	.1	-	97	47	0	26	.5	116	7.6	GS

1/ S, spring.
2/ In solution at time of analysis.
3/ Residue on evaporation.
4/ DH, Utah State Department of Health; GS, U.S. Geological Survey.
5/ Sample collected while drilling test hole at depth of 238 feet.
6/ Numbered (C-33-5)3cb in Utah State Engineer Tech. Pub. 10.
7/ In solution at time of collection.
8/ Analysis of 6-27-50 numbered (C-34-5) in Utah State Engineer Tech. Pub. 10.
9/ Sample collected while drilling well at depth of 285 feet.
10/ Numbered (C-35-5)24cb in Utah State Engineer Tech. Pub. 10.
11/ Sample collected while drilling well at depth of 150 feet.
12/ Calculated from determined constituents.
13/ Contains 2.0 ppm lithium.
14/ Contians 1.9 ppm lithium.
15/ Contains 1.6 ppm lithium.
16/ Numbered (C-31-2)11 in Utah State Engineer Tech. Pub. 10.
17/ Sample collected while drilling well at 270 feet. For additional analyses of samples collected while drilling and completing the well, see Marine, I. W., 1963, Ground-water resources of the Bryce Canyon National Park area, Utah: U.S. Geol. Survey Water-Supply Paper 1475-M, p. 482.
18/ Contains 0.2 ppm lithium.

Table 6.--Chemical analyses of surface water in the upper Sevier River basin

Source and location	Date of collection	Temperature (°F)	Parts per million																			
			Silica (SiO_2)	Iron[1] (Fe)	Calcium (Ca)	Magnesium (Mg)	Na + K: Sodium (Na)	Na + K: Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Dissolved solids[2]	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos/cm at 25°C)	pH	Mean discharge (cfs)[3]	Analysis by[4]
Navajo Lake surface[5]	7-14-54	73	-	-	-	-	-		87	-	-	1.3	-	-	69	0	-	-	139	7.9	-	GS
Navajo Lake outlet	8- 2-54	70	6.6	-	10	6.2	3.2		64	0	3.1	1.5	0.3	[6]/63	51	0	12	0.2	100	7.5	-	GS
Asay Creek near Hatch	6- 5-49	-	-	-	39	9.0	2.1	1.2	202	-	3.8	1.1	.2	-	134	0	3	.1	310	-	-	SU
	4-21-50	-	11	-	42	16	3.0		204	-	7.2	1	1.8	[6]/182	171	4	4	.1	316	-	-	GS
Asay Creek (West Fork) near Hatch	8-28-54	-	-	-	-	-	-		196	0	9.3	-	-	-	161	0	-	-	312	7.7	-	GS
Asay Creek at mouth	9-30-55	-	-	-	38	16	5.3		195	-	6.6	3.5	.8	-	162	1	7	.2	308	-	-	GS
	1-17-61	41	14	0.00	45	17	5.2		224	0	4.9	2.0	1.1	191	181	0	6	.2	335	7.5	30	GS
Mammoth Creek near Hatch	5- 6-49	-	-	-	19	7.1	2.1	2.0	91	-	4.3	3.2	.2	-	76	2	5	.1	170	-	-	SU
	6- 5-49	-	-	-	20	7.1	2.1	1.2	121	-	1.9	-	.1	-	79	0	5	.1	190	-	-	SU
	4-21-50	-	21	-	32	12	3.7		158	0	6.0	1	.7	[6]/154	130	0	6	.1	247	-	-	GS
Mammoth Creek at mouth	9-30-55	60	25	-	40	15	7.6	-	184	9	7.4	4.5	1.9	[6]/201	164	0	9	.3	322	8.2	10	GS
	1-17-61	41	23	.00	44	16	5.6		220	0	4.9	1.5	2.2	210	177	0	6	.2	338	7.4	5	GS
Sevier River near Red Canyon	4-21-50	-	14	-	42	18	3.2		214	0	8.2	1	.7	[6]/192	179	4	4	.1	338	-	-	GS
	9-30-55	-	20	-	44	19	6.2	-	230	-	8.2	4.0	.6	[6]/215	188	0	7	.2	366	7.5	-	GS
Sevier River at Panguitch	5- 6-49	-	-	-	31	9.0	4.1	3.9	160	-	7.2	2.1	-	-	114	0	7	.2	280	-	-	SU
Panguitch Creek near Panguitch	1-17-61	35	37	.00	29	6.3	9.0		134	0	2.5	3.5	1.6	163	99	0	17	.4	216	7.1	5	GS
Sevier River near Circleville	12-29-60	33	32	.01	55	18	23		295	0	8.6	5.0	2.2	286	210	0	19	.7	452	7.8	88	GS
Sevier River at Kingston	5- 6-49	-	-	-	33	12	14	3.9	188	-	14	3.9	.4	-	132	0	18	.5	340	-	385	SU
	12-29-60	36	38	.01	57	17	25		290	0	15	6.5	2.9	307	211	0	20	.7	477	7.7	94	GS
Deer or Mitchell Creek at mouth near Antimony	1-17-61	49	31	.00	63	21	18		310	0	12	9.0	3.0	307	242	0	14	.5	494	7.7	4	GS
East Fork Sevier River above Deep Creek near Antimony	12-29-60	40	34	.00	55	20	14		269	0	11	9.5	2.8	276	217	0	12	.4	439	7.7	18	GS
Otter Creek near Koosharem	12-29-60	33	45	.01	40	9.2	17		189	0	4.5	10	.9	221	138	0	21	.6	317	7.3	8	GS
Otter Creek at Angle above Otter Creek Reservoir	12-29-60	33	44	.01	40	10	24		204	0	9.9	12	.9	[6]/241	142	0	27	.9	357	7.5	5	GS
East Fork Sevier River near Kingston	5- 6-49	-	-	-	44	25	21	5.9	229	-	41	12	.4	-	213	26	17	.6	490	-	-	SU
	12-29-60	33	47	.01	85	23	18		320	0	60	15	2.9	420	308	46	11	.5	618	7.9	8.5	GS

1/ In solution at time of analysis.
2/ Residue on evaporation.
3/ Cfs, cubic feet per second.
4/ GS, U.S. Geological Survey; SU, Agricultural Experiment Station, Utah State University, Logan, Utah.
5/ Average of 5 samples.
6/ Calculated from determined constituents.



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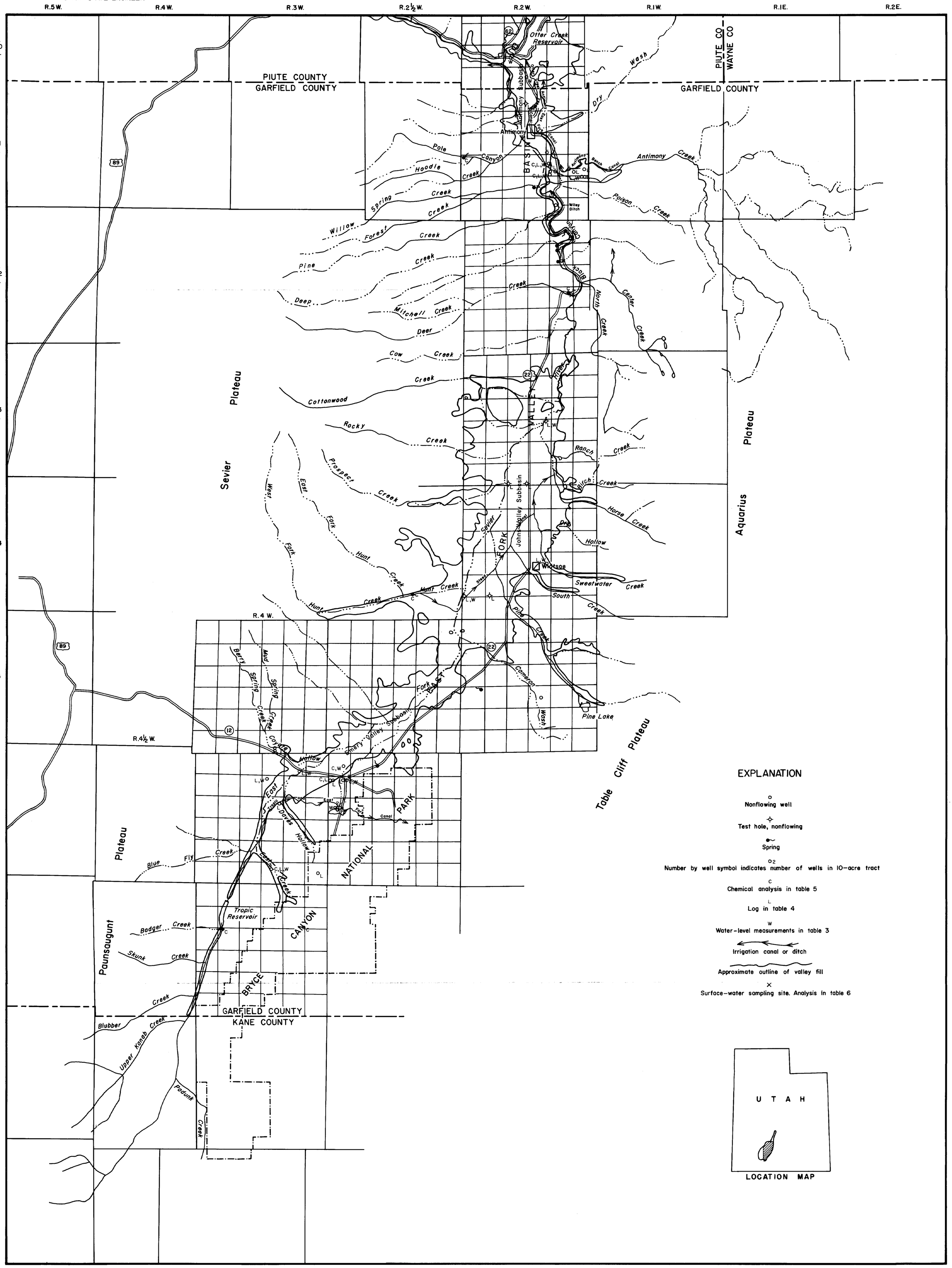
MAP SHOWING SELECTED WELLS, TEST HOLES, SPRINGS, CANALS, SITES FOR WATER SAMPLING, AND GROUND-WATER BASINS IN THE UPPER SEVIER RIVER BASIN, UTAH



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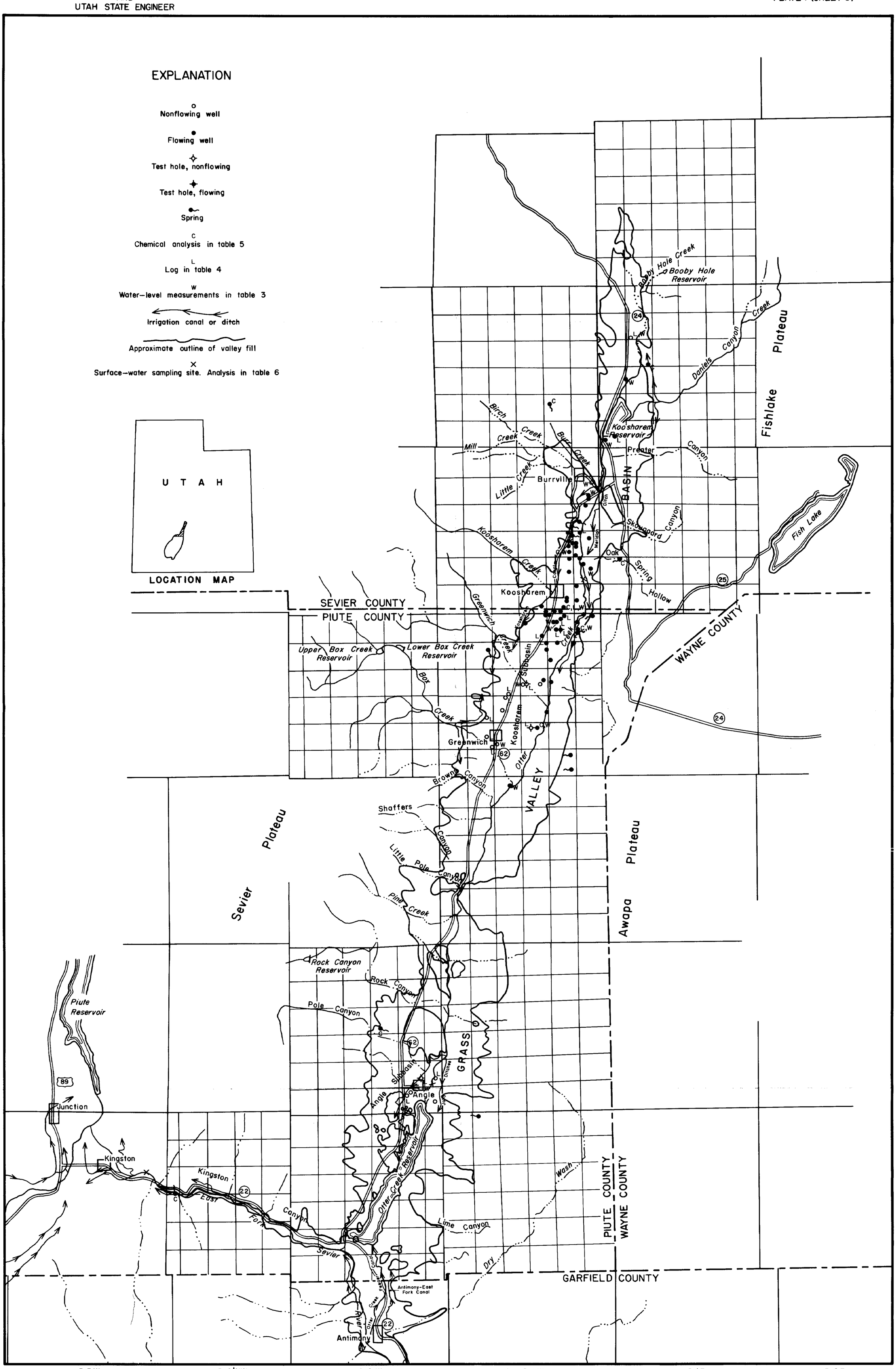

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