

Paul Surte
 PO Box 1000
 Shepherdstown WV 25443

78°

77° 52' 30"

39° 30'

GROUND-WATER HYDROLOGY

OF

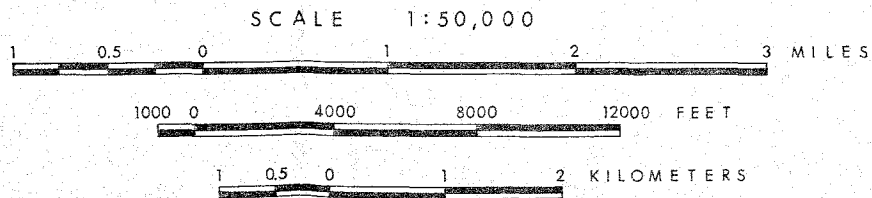
JEFFERSON COUNTY, WEST VIRGINIA

BY WILLIAM A. HOBBA JR.

1978

EXPLANATION

- | | | | |
|---------------------------------|---|-----|--|
| ○○○○○○○ | GROUND-WATER DIVIDE | --- | FAULT
(DASHED WHERE INFERRED) |
| ● | POINT OF DYE INJECTION
(TO TRACE FLOW OF GROUND WATER) | — | FRACTURE TRACE
(MAPPED FROM AERIAL PHOTOGRAPHS) |
| ***** | LOSING STREAM | ▨ | PROBABLE CAVERNOUS ZONE |
| ▲ ¹⁵¹ | STREAM AND NUMBER | ⋯ | LINEAMENTS
(MAPPED FROM SATELLITE IMAGERY) |
| ⊙ ¹⁷ ⊙ ⁵⁴ | WELL OR SPRING AND
NUMBER | --- | STATE BOUNDARY |
| — 500 — | WATER-TABLE CONTOUR
(DASHED WHERE INFERRED. CONTOUR
INTERVAL 25, 50, AND 100 FEET.
DATUM IS MEAN SEA LEVEL.) | --- | COUNTY BOUNDARY |
| | | --- | MAGISTERIAL DISTRICT BOUNDARY |



CONTOUR INTERVAL 10 FEET AND 20 FEET

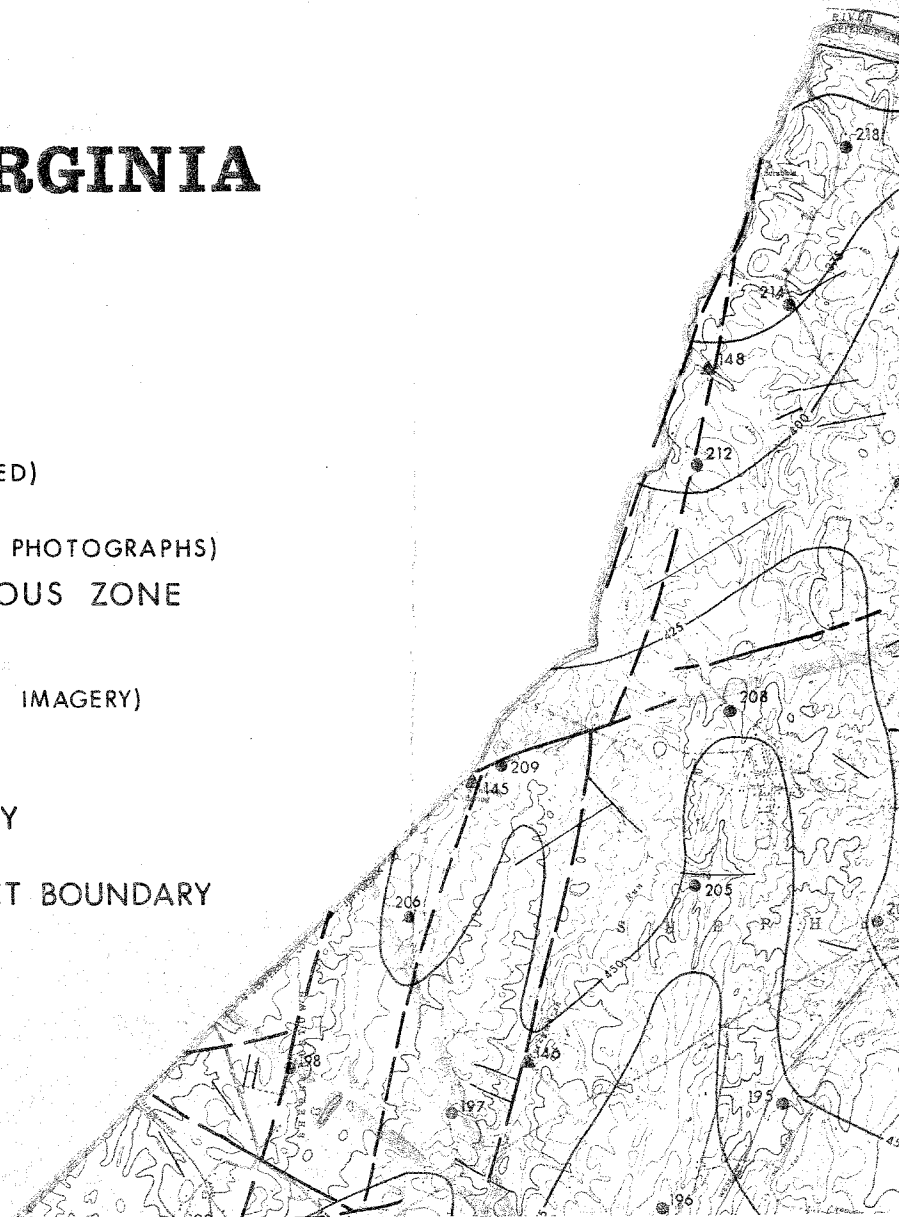


TABLE OF WELL DATA

REPORT NO.	OTHER WELL NO.	NAME	WELL DEPTH (feet)	CASING DEPTH (feet)	WELL DIAMETER (inches)	YIELD (gal/min)	WATER LEVEL BELOW LAND SURFACE (feet)	WATER QUALITY										
								DATE MEASURED ON SAMPLED	TEMPERATURE (°C)	SPECIFIC CONDUCTANCE (micromhos @ 25 °C)	pH	IRON (µg/l)	CHLORIDE (mg/l)	HARDNESS AS CaCO ₃ (mg/l)	NITRATE (mg/l) ^{1/}	FECAL COLIFORM ^{2/} (per 100 ml)	FECAL STREPTOCOCCI ^{2/} (per 100 ml)	TOTAL ORGANIC CARBON (mg/l)
1		C. Postlethwaite	180	172	6	13	44	9-16-74		50	5.8	2.00	2.4	5	.25			
2		D. Tomblin	123	56	6		99	9-24-74	14	110	6.8	.08	1.5	22	.16			
3		C. Marcum, Jr.	348	22	6		106	9-24-74	15	90	6.5	.38	1.5	25	.54			
4		C. Marcum, Jr.	135	22	6		37	9-24-74										
5		T. L. Good, Jr.	125		6		106	9-23-74	16	320	7.5		10	140	.34			
6		J. F. Fitzpatrick	260		6	20		9-23-74	20	625	7.4		1.8	300	.03			
7		C. L. Robinson Co.	180		6		80R	9-37										
8		Drilake Farm	128	18	6		11	9-24-74	15	600	7.3		4.1	280	.03			
9		Drilake Farm	126	14	6			9-24-74	15	700	7.2		6.9	330	1.7			
10		H. J. Howell	268	64	6	4	66	9-22-74	13	85	7.5		3.3	6	.03			
11		C. Hawkins	125	50	6		25R	9-22-74	20	75	7.0	.19	1.8	9	.90			
12		J. Godlove	219	60	6		67	9-24-74	17	500	7.3		2.9	240	2.3			
13		D. N. Hoover, Jr.	260	30	6		45	9-20-74	16	725	7.3		81	310	5.1			
14		A. Jenkins	179		6	12	34	9-20-74	15	570	7.6		2.9	280	2.8			
15		R. R. Smith	140	20	6		26	9-25-74	15	750	7.2		1.6	390	.13			
16		J. Louthon	70	46	6		29	9-17-74	16	1000	6.8		29	460	16			
17		J. Thompson	95	92	6		50	9-17-74	13	1300	6.9		36	510	24			
18		C. A. Johnson	400		6		36	9-22-74	16	325	7.4	.08	4.3	120	.05			
19		G. Connerly	85		6			9-20-74	16	660	7.5		6.4	270	3.0			
20		J. L. Glymph	160	40	6	9	58	9-20-74	14	660	7.3		2.6	260	2.0			
21		J. N. Andrews	110		6		54	9-20-74	14	725	7.4		6.5	330	4.0			
22		D. N. Hoover, Jr.	190	42	6		68	9-21-74	18	975	6.9		10	490	2.3			
23		P. W. Ott	200	21	6		57	9-25-74	13	580	7.6		4.5	200	3.7			
24		R. Haugh	80		6		26	9-25-74	15	625	7.4		8.4	270	4.6			
25		W. P. Mills, Jr.	76	54	6		52	9-17-74	16	590	7.0		8.5	280	6.5			
26		J. Czablewski	118	36	6		53	9-23-74	16	190	7.7	.05	4.5	59	.01			
27		C. Umscheid	250	18	6		92R	9-20-74	21	1050	7.0		86	380	5.5			
28		P. B. Rogers	280		6		30	9-19-74	20	650	7.4		1.7	310	.03			
29		J. Chilcoat	200	80	6		78	9-21-74	17	700	7.2		7.2	340	3.9			
30		F. J. Jansen	148	20	6	100	32	9-25-74	13	725	7.4		9.4	330	3.5			
31		V. Burns	160	96	6		73	9-25-74	13	1300	6.9		50	620	30			
32		A. M. Morgan	158		6		54	9-25-74	13	700	7.4		12	290	17			
33		Lloyd	122		6		48	9-18-74	14	540	7.3		28	250	3.6			
34		H. Athey	85	77	6		29	9-17-74	19	700	7.0		18	350	9.2			
35		C. Viands, Jr.	210	95	6	4	70	9-23-74	15	135	7.5	0	1.5	29	.01			
36		C. A. Jewell	185	22	6		34	9-20-74	14	340	7.3	.44	9.0	130	.12			
37		Aster McDaniel			6		51	9-25-74	15	270	6.8	.20	6.8	110	.00			
38		D. W. Booth	347	108	6		199	9-23-74	16	325	7.4	.04	3.3	110	.01			
39		L. Becker	200		6		91	9-19-74	15	1100	7.3		170	420	3.9			
40		F. E. Rissler	140		6		74R	9-19-74	24	625	7.6		12	280	2.0			
41		Ziger, Inc.	200		6	25	44	9-19-74	14	800	6.9		9.5	350	7.6			
42		W. Mickey	100	30	6		31	9-19-74	16	700	7.4		12	310	3.7			
43		H. N. Randolph	65		6	10	61	9-18-74	15	1400	7.1		140	580	35			
44		J. E. Magaha	400		6		35P	9-18-74	13	560	7.6		5.3	240	3.4			
45		R. Schmidt	95	18	6		44	9-18-74	14	600	7.2		5.0	260	4.3			
46		R. Mason	400		6		64	9-18-74	15	650	7.3	.03	9.0	270	4.2			
47		R. Underwood	83	20	6		34	9-18-74	14	800	7.1		6.0	370	2.0			
48		Aultry Howell	287	180	6		48	9-25-74	12.5	70	7.0	.10	13	21	.08			
49		Lola Turner	218	125	6		52	9-26-74	14	230	6.8		11	63	3.3			
50		Barbara Moulton	400	30	6		114	9-25-74	16	240	7.0	.08	6.5	91	.49			
51	21-3-43	W. E. Johnson				1		9-25-74	12	150	7.0		21	34	.20			
52		John Moulton	85		6		67	9-20-74	14	500	7.2	.04	15	220	7.8			
53		J. C. Elliott	450		6		70	9-20-74	14	625	7.0		9.7	270	9.3			
54	21-3-41	Clapp Spring						9-18-74	14.5	520	7		8.7	290	4.5			
55		Richard Yates	200	93	6		48	9-18-74										
56		Walter Natis	210		6		66	9-18-74	19	590	6.9		9.7	240	9.1			
57		Beverly Taylor	160	27	6		62	9-18-74	15	820	7.0		16	350	7.5			
58		Gary Phalen	178		6		72	9-20-74	15	655	6.9		14	330	16			
59		J. Glenn Brown	305	17	6	120	70	9-20-74	16	630	6.9		23	330	15			
60		C. Viands	100	35	6	30	35R	9-19-74		500	7.2		4.7	270	6.4	0	0	.2
61		Paul Clendening	150	20	6	11	25P	9-25-74		690	7.2		3.2	380	1.5			
62		Roger Z. Bana	182	27	6		18	9-25-74	17	655	7.2		3.5	380	6.6			
63		Randolph Burch	144		6		42R	9-26-74	13.5	640	7.0	.40	5.8	380	4.5			
64		W. A. Orndoff			6			9-25-74		900		.08	31	480	15			
65		Norman Foster	200	30	6		38	9-25-74	15	270	6.6		2.2	91	.04			
66		Pot. Lt. & Power	200	105	6		36	9-21-74	14.5	120	6.2	.39	2.1	23	.89			
67		Donald S. Noland	100		6		79	9-17-74	15	480	6.6		4.8	190	5.0			
68	21-4-27	Leo Widmyer	250		6		100	9-17-74	15	790	6.8		16	310	8.7			
69	21-3-36	L. W. Lloyd, Sr.	43	35	6		34	9-18-74	11.5	520	6.6		12	320	8.6	0	8	
70		Rolfe Hayes	210		6		82	9-18-74	15	675	7.2		6.8	300	3.5			
71		W. C. Perry	66		6		54	9-18-74	21	720	7.2		15	310	22			
72		William Propps	330		6		67	9-19-74		590	7.2		8.9	290	7.0	0	0	0.2
73		Frank Papiano	100		5		70P	9-19-74	13	590	7.0		3.1	320	3.4	0	0	1.0
74		Sam Harris	25	60	6		14	9-27-74	13	700	6.6		15	350	1.4	7	7	1.5
75		Unknown	64		6		47	9-19-74										
76		Stuart Crim	300		5			9-25-74	13.5	700		2.6	22	340	.01			
77		John Loycock, Jr.	165	21	6		70E	9-25-74										
78		John Loycock, Sr.	48		36		22	9-25-74										
79		Ablow	103		6		23R	9-25-74	16	600		2.2	12	300	.01			
80		Rodman			6		83P	9-26-74	13.5	580	7.0		6.1	310	4.5			
81		M. Nicodemus	307	52	6		69P	9-25-74	18	740			11	440	4.6			
82		S. C. Smithson	301		6		115P	9-20-74	16	260	6.3		1.3	88	.15			
83		M. Marietta Corp.	195	175	6		37P	9-20-74	14	1000	6.8		14	420	4.4			
84		M. Marietta Corp.			6		295	9-20-74		650	8.4		7.1	290	.47			
85	21-4-23	USS Materplant	363	17	10	64	65	9-20-74	13.5	810	7.0		7.0	400	6.7			
86	21-4-46	Mortlow Farm				40		9-17-74	14.5	675	7.0		5.1	280	5.0			
87		U. S. Steel	300		6		74	9-20-74	14	825	6.8		5.7	370	6.3			
88	21-4-26	Leo Widmyer	80		6		62P	9-17-74		760	6.8		12	340	9.5			
89		Old Theater			6		42	9-18-74										
90	21-3-24	Jockey Club	410		87			9-17-74	14.5	1075	6.8		16	470	5.4			
91		Water Ser. Co.						9-23-74	12.0	460			6.5	240	6.0	7	9	.1
								3-21-75	10.8	490	7.0		10	4	300	5		
								5-19-75	12.5	420P	7.5				158	173		
92																		

