

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Audio-magnetotelluric data log for
Cedarville, California, 15' quadrangle.
Supplement to Open-File Report 75-102.

By

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Open-File Report 78-105B

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This report is preliminary and has not been
edited or reviewed for conformity with U.S.
Geological Survey standards and nomenclature.

Cedarville, Calif., 15' quadrangle, 1975
U.S. GEOLOGICAL SURVEY A.M.T. DATA LOG

pa = observed apparent resistivity in ohm-metres

N = number of observations

Er = standard error in ohm metres - = no data

"NOTE" - Telluric line orientation indicated with station numbers.

Sta. No.		FREQUENCY											
		7.5	10	14	27	76	285	685	1.2K	3.3K	6.7K	10.2K	18.6K
1NS	pa	1.3	-	2.1	7.6	13.8	19.5	-	-	-	95.	130	46
	N	3		7	11	11	9				8	1	1
	Er	.2		.5	1.2	0.6	0.8				2.7	-	-
1EW	pa	1.2	-	3.7	8.0	18.9	24.1	-	-	-	117.	178	62
	N	4		7	10	10	5				10	1	1
	Er	.4		.2	.4	1.1	4.7				2.6	-	-
2NS	pa	1.3	-	1.6	5.1	10.3	15.5	-	-	-	74	113	31
	N	8		10	10	10	11				10	1	1
	Er	.3		.4	.7	.4	1.2				4.4	-	-
2EW	pa	1.6	-	1.9	6.5	14.9	28.	-	-	-	93	158	29
	N	6		7	10	10	5				10	1	1
	Er	.3		.2	.9	1.2	4.0				3.3		
3NS	pa	1.5	-	.8	3.1	5.5	11	-	-	-	45	123	16
	N	4		6	10	10	10				10	1	1
	Er	.6		.1	.3	.2	.8				2.5	-	-
3EW	pa	1.9	-	12.	11.6	25.	8.5	-	-	-	142	-	23.
	N	5		5	10	10	8				10	1	1
	Er	.3		2.8	1.1	2.5	1.1				11.	-	-
4NS	pa	1.6	-	1.5	2.0	2.7	10	-	-	-	37	29	6.5
	N	3		5	10	10	7				10	1	1
	Er	.3		1.3	.2	.4	1.8				4.2	-	-
4EW	pa	.6	-	.95	1.6	4.4	11.	-	-	-	39.	17.	8.1
	N	4		6	10	10	7				8	1	1
	Er	.1		.3	.2	.3	.1				4.4	-	-

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		7.5	10	14	27	76	285	685	1.2K	3.3K	6.7K	10.2K	18.6K
5NS	pa	2.1	-	5.2	11.3	12.1	8.7	-	-	-	10.5	12.0	4.0
	N	5		6	10	10	9				10	1	1
	Er	.4		1.0	1.4	1.8	1.2				.3		
5EW	pa	1.6	-	3.0	9.2	6.4	3.7	-	-	-	9.5	11.9	5.9
	N	5		5	10	10	10				11	1	1
	Er	.3		.2	1.4	.5	.4				.2		
6NS	pa	1.0	-	0.4	0.6	0.4	1.3	-	-	-	0.8	0.8	-
	N	3		6	10	10	8				7	1	1
	Er	.3		.1	.1	.02	.05				.04		
6EW	pa	0.8	-	0.2	0.4	0.7	2.8	-	-	-	0.6	0.8	0.3
	N	3		3	9	9	7				10	1	1
	Er	.2		.03	.04	.08	.3				.03		
7NS	pa	3.0	-	1.6	1.0	3.0	10.2	-	-	-	11.6	28.	4.2
	N	2		5	10	10	10				11	1	1
	Er	.2		.9	.1	.3	1.4				.7		
7EW	pa	0.9	-	1.3	0.7	3.6	3.4	-	-	-	9.5	9.4	4.5
	N	1		5	10	10	8				8	1	1
	Er			.2	.7	.2	.3				1.2		
8NS	pa	1.6	-	3.9	9.4	18.	17	-	-	-	20.	4.4	11.4
	N	5		6	7	10	10				10	1	1
	Er	.3		.6	2.0	1.4	2.2				3.2		
8EW	pa	4.9	-	5.0	17.	15.	139	-	-	-	48	-	3.7
	N	4		5	10	8	7				10		1
	Er	.4		1.7	5.4	2.2	29				3.2		

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Sta. No.		FREQUENCY											
		7.5	10	14	27	76	285	685	1.2K	3.3K	6.7K	10.2K	18.6K
13N	pa	4.3	-	3.0	8.0	17.	18	-	-	-	80	56	-
	N	6		5	10	10	2				10	1	
	Er	1.6		1.1	.9	1.8	.1				3.5		
13E	pa	4.4	-	5.3	19.	28	24.	-	-	-	61.	65	-
	N	5		5	10	10	10				10	1	
	Er	.7		.6	2.0	1.8	2.7				5.		
14N	pa	1.0	-	3.5	4.2	9.0	15.	-	-	-	27	15	3.1
	N	3		5	10	10	8				10		
	Er	.1		1.3	.3	.5	1.2				1.3		
14E	pa	1.2	-	3.0	5.9	11.	11	-	-	-	25	14	4.9
	N	4		5	10	10	8				10		
	Er	.2		.6	.7	.4	.8				.6		
15N	pa	1.4	-	.5	1.5	1.6	1.1	-	-	-	4.5	1.9	1.6
	N	4		5	10	10	5				10	1	1
	Er	.6		.2	.2	.1	.2				.08		
15E	pa	1.7	-	.9	1.6	2.4	2.7	-	-	-	1.6	2.6	.9
	N	3		6	10	10	5				10	1	1
	Er	.5		.1	.2	.3	.2				.1		
16N	pa	1.0	-	.24	.42	.38	.45	-	-	-	.66	.57	.33
	N	4		3	8	10	2				10	1	1
	Er	.45		.09	.06	.04	.07				.01		
16E	pa	.45	-	.20	.37	.45	.86	-	-	-	.65	1.0	.34
	N	5		5	6	10	2				10	1	1
	Er	.05		.04	.07	.04	.15				.02		

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Sta. No.		FREQUENCY											
		7.5	10	14	27	76	285	685	1.2K	3.3K	6.7K	10.2K	18.6K
9NS	pa	1.0	-	0.9	1.3	1.5	2.0	-	-	-	5.5	18	-
	N	4		3	10	10	8				5	1	1
	Er	.3		.1	.1	.1	.2				6.		
9EW	pa	1.3	-	1.6	1.2	2.6	2.0	-	-	-	4.6	8.0	11.6
	N	5		7	10	10	5				8	1	1
	Er	.1		.6	.1	.2	.2				6.7		
10NS	pa	.9	-	1.0	5.4	10	18	-	-	-	25	28	7.2
	N	5		5	10	10	7				11	1	1
	Er	.1		.3	.7	.9	1.2				.9		
10EW	pa	4.2	-	7.9	14	28	16	-	-	-	18	13	5.0
	N	5		6	10	10	7				10	1	1
	Er	.7		1.5	1.1	2.4	1.2				.8		
11NS	pa	.6	-	.5	.3	.5	.7	-	-	-	3.2	4.0	5.9
	N	4		2	8	11	2				10	1	1
	Er	.2		.05	.07	.07	.06				.1		
11EW	pa	.7	-	.3	.7	2.1	5.3	-	-	-	4.3	4.0	6.2
	N	4		4	10	10	3				11	1	1
	Er	.2		.1	.05	.06	.3				.2		
12NS	pa	7.1	-	2.7	9.3	13	13	-	-	-	14	5	1.4
	N	5		5	10	10	2				3	1	1
	Er	5.2		.5	1.3	.6	1.1				1.8		
12EW	pa	2.1	-	2.9	3.9	6.2	10.0	-	-	-	-	8	2.2
	N	5		7	10	7	5					1	1
	Er	.6		.8	.5	.9	.6						

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		7.5	10	14	27	76	285	685	1.2K	3.3K	6.7K	10.2K	18.6K
17N	pa	.9	-	1.0	1.1	1.5	1.5	-	-	-	2.5	5.4	.5
	N	4		5	10	10	4				10	1	1
	Er	.2		.2	.1	.1	.2				.1		
17E	pa	.3	-	.4	.8	1.6	1.7	-	-	-	2.8	3.7	1.5
	N	4		4	10	10	4				9	1	1
	Er	.03		.1	.1	.1	.1				.1		
18N	pa	1.2	-	1.3	3.5	6.8	28	-	-	-	50	94	26
	N	4		6	10	10	10				10	1	1
	Er	.3		.1	.4	.3	.6				1.2		
18E	pa	.9	-	.6	3.4	4.3	12	-	-	-	22	26	-
	N	3		4	10	10	3				10	1	1
	Er	.2		.2	.4	.4	1.0				.6		
19N	pa	1.0	-	3.3	34	62	47	-	-	-	89	-	33
	N	5		4	10	10	2				10	1	1
	Er	.3		.3	4.7	7.7	6.7				4.5		
19E	pa	3.6	-	2.8	29	23	-	-	-	-	79	-	17
	N	5		5	10	10					11	1	1
	Er	.4		.2	2.6	2.0					4.3		
20N	pa	1.1	-	2.0	5.0	9.8	-	-	-	-	19	15	9.9
	N	3		4	10	10					10	1	1
	Er	.3		.6	.5	.5					.9		
20E	pa	1.8	-	1.6	6.0	11	49	-	-	-	19	13	14
	N	3		5	10	10	3				10	1	1
	Er	.4		.4	.9	.6	.2				1.5		

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Sta. No.		7.5	10	14	27	76	285	685	1.2K	3.3K	6.7K	10.2K	18.6K
21N	pa	.6	-	1.4	1.9	3.5	8.2	-	-	-	1.0	1.1	.7
	N	3		6	8	10	5				10	1	1
	Er	.2		.6	.3	.5	.4				.03		
21E	pa	1.2	-	1.4	2.3	3.4	3.4	-	-	-	1.5	2.4	.5
	N	3		5	9	10	3				10	1	1
	Er	.1		.3	.2	.2	.3				.05		
22N	pa	2.4	-	2.6	7.2	8.6	6.4	-	-	-	13	7.3	5.0
	N	2		5	10	10	5				10	1	1
	Er	1.4		.3	.6	.3	1.6				.3		
22E	pa	1.5	-	1.8	5.5	8.0	6.0	-	-	-	9.8	10.1	7.5
	N	4		4	10	10	5				11	1	1
	Er	.5		.5	.3	.8	.7				1.2		
23N	pa	5.4	-	9.	25	59	78	-	-	-	162	121	92
	N	5		7	10	10	5				10	1	1
	Er	1.0		1.4	2.6	13.	28				3.7		
23E	pa	14	-	26	60	105	76	-	-	-	171	262	200
	N	3		5	10	10	5				10	1	1
	Er	3.0		5.5	4.5	36.	14.				5.8		
24N	pa	1.4	-	3.1	8.8	12	11	-	-	-	17	17	9.5
	N	5		5	10	10	5				10	1	1
	Er	.5		.7	1.3	.5	.8				1.1		
24E	pa	1.2	-	1.0	4.2	7.9	13	-	-	-	14	20	5.8
	N	3		4	10	10	5				11	1	1
	Er	.2		.2	.3	.3	.5				.6		

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		FREQUENCY											
Sta. No.		7.5	10	14	27	76	285	685	1.2K	3.3K	6.7K	10.2K	18.6K
25N	pa	-	-	-	-	-	-	-	-	-	-	-	-
	N												
	Er												
25E	pa	2.3	-	11.7	18.	31.	26.	-	-	-	51	33	102
	N	3.		6	10	10	6				10	1	1
	Er	.4		2.0	1.5	1.1	1.5				1.9		
26N	pa	.86	-	2.8	6.4	15	13	-	-	-	29	8	13
	N	4		6	10	10	1				9	1	1
	Er	.04		1.0	1.2	1.4					2.8		
26	pa	2.1	-	2.6	6.7	11	15	-	-	-	31	15	16
	N	5		5	10	10	5				10	1	1
	Er	.4		.6	.7	.6	1.6				1.8		
	pa												
	N												
	Er												
	pa												
	N												
	Er												
	pa												
	N												
	Er												
	pa												
	N												
	Er												