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no. 76-411

USGS-CFR-76-411

UNITED STATES (DEPARTMENT OF THE INTERIOR)
GEOLOGICAL SURVEY,

[Reports - Open file
series]

Audio-magnetotelluric data log and station
location map for Monroe-Joseph Known Geo-
thermal Resource Area, Utah

TM

cm
Inman

By

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Open-File Report No. 76-411
1976

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

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FIGURE 1

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.

		FREQUENCY											
Sta. No.		7.5	10	14	27	76	285	685	1.2K	3.3K	6.7K	10.2K	18.6K
1NS	pa	2.8	2.9	3.7	3.8	5.6	1.2	—	—	—	15.1	34.2	8.3
	N	10	8	9	9	11	9	—	—	—	8	1	1
	Er	0.4	0.3	0.3	0.2	0.3	0.2	—	—	—	1.3	—	—
1EW	pa	3.8	3.8	3.7	4.8	15.4	13.4	—	—	—	3.4	20.3	9.6
	N	10	10	6	9	6	10	—	—	—	10	1	1
	Er	0.4	0.2	0.3	0.3	1.4	0.5	—	—	—	0.1	—	—
2NS	pa	35.4	41.9	63.9	71.2	115.7	32.0	—	—	—	1.0	0.7	4.5
	N	5	6	8	9	7	5	—	—	—	5	1	1
	Er	11.5	8.5	4.2	6.4	10.2	0.9	—	—	—	0.1	—	—
2EW	pa	36.2	40.7	51.3	65.6	132.9	91.6	—	—	—	4.6	5.4	6.1
	N	10	10	10	10	11	10	—	—	—	10	1	1
	Er	2.3	4.8	2.3	1.3	2.8	3.6	—	—	—	0.1	—	—
3NS	pa	—	—	—	—	—	—	—	—	—	15.0	40.3	63.1
	N	—	—	—	—	—	—	—	—	—	5	1	1
	Er	—	—	—	—	—	—	—	—	—	1.6	—	—
3EW	pa	21.5	36.5	37.5	42.0	119.5	100.0	—	—	—	40.5	16.7	3.1
	N	8	10	10	10	10	11	—	—	—	10	1	1
	Er	2.1	6.4	4.8	5.5	33.2	5.1	—	—	—	2.1	—	—
4NS	pa	32.6	51.8	—	57.7	102.4	85.6	78.8	—	—	66.3	118.0	21.2
	N	2	6	—	5	7	5	6	—	—	6	1	1
	Er	13.4	6.3	—	8.6	15.9	13.9	3.0	—	—	2.8	—	—
4EW	pa	22.6	38.1	28.1	39.8	88.1	94.4	50.1	—	—	10.2	26.8	1.6
	N	4	7	8	11	6	11	3	—	—	8	1	1
	Er	6.8	6.7	2.3	2.7	10.2	2.6	6.2	—	—	0.8	—	—

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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
5NS	pa	10.0	5.7	6.7	4.5	5.1	3.3	—	—	—	35.6	164.4	55.9
	N	9	4	5	11	10	8	—	—	—	9	1	1
	Er	1.3	0.2	1.4	0.3	0.3	0.9	—	—	—	1.8	—	—
5EW	pa	12.7	8.2	6.2	2.9	2.8	3.1	—	—	—	11.6	59.5	1.2
	N	8	9	11	9	10	10	—	—	—	10	1	1
	Er	2.8	1.4	0.4	0.3	.34	0.3	—	—	—	0.2	—	—
6NS	pa	—	9.5	11.2	17.3	30.3	10.4	—	—	—	119.7	192.6	133.0
	N	—	2	3	10	7	6	—	—	—	4	1	1
	Er	—	1.7	2.0	2.5	4.1	0.5	—	—	—	14.4	—	—
6EW	pa	20.5	16.6	16.7	18.9	32.3	38.6	—	—	—	10.6	12.6	0.8
	N	9	12	9	10	9	10	—	—	—	10	1	1
	Er	2.0	2.0	1.5	0.8	0.9	1.4	—	—	—	0.2	—	—
7NS	pa	27.4	—	81.0	74.4	69.1	128.3	—	—	—	365.3	176.7	286.0
	N	9	—	6	9	8	10	—	—	—	9	1	1
	Er	4.2	—	20.5	15.8	5.4	15.7	—	—	—	12.3	—	—
7EW	pa	37.5	—	63.3	48.3	81.9	285.5	—	—	—	74.3	156.3	56.6
	N	10	—	4	10	5	7	—	—	—	9	1	1
	Er	4.4	—	15.6	10.3	12.6	27.1	—	—	—	1.7	—	—
8NS	pa	39.6	52.4	56.6	57.8	165.0	97.7	—	—	—	32.9	67.4	50.9
	N	5	7	10	8	3	8	—	—	—	8	1	1
	Er	5.6	9.8	4.7	5.9	10.1	3.4	—	—	—	3.5	—	—
8EW	pa	61.5	37.7	40.3	56.9	101.8	100.2	—	—	—	24.7	20.5	4.8
	N	6	9	10	7	11	10	—	—	—	10	1	1
	Er	12.2	2.4	1.8	4.5	9.7	3.2	—	—	—	0.5	—	—

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pa = observed apparent resistivity in ohm-metres

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"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
9NS	pa	35.9	45.5	24.8	26.2	46.1	67.7	183.6	-	-	37.4	68.8	29.9
	N	6	8	10	11	11	10	9	-	-	10	1	1
	Er	7.3	8.4	1.9	1.4	2.8	1.7	25.9	-	-	2.1	-	-
9EW	pa	28.3	25.6	24.3	27.2	69.7	76.5	-	-	-	14.1	35.6	3.5
	N	10	11	10	10	10	11	-	-	-	10	1	1
	Er	2.2	2.5	1.2	0.7	3.5	2.1	-	-	-	0.3	-	-
10NS	pa	-	22.9	21.7	27.2	50.5	71.9	90.6	-	-	147.4	164.4	55.9
	N	-	10	9	10	10	10	3	-	-	5	1	1
	Er	-	2.9	2.0	2.1	1.3	3.9	23.6	-	-	7.2	-	-
10EW	pa	10.9	8.2	6.2	11.1	27.7	45.9	34.6	-	-	22.6	59.5	1.2
	N	9	9	11	8	10	9	5	-	-	10	1	1
	Er	1.4	1.4	0.4	0.8	3.4	2.1	9.2	-	-	1.0	-	-
11NS	pa	34.4	23.2	38.5	43.2	84.7	14.3	-	-	-	184.5	157.1	340.7
	N	3	10	10	10	14	10	-	-	-	10	1	1
	Er	3.9	2.8	6.7	4.7	10.3	3.5	-	-	-	10.0	-	-
11EW	pa	27.2	25.0	41.8	49.6	110.2	238.7	-	-	-	165.9	189.0	57.6
	N	5	9	10	9	12	12	-	-	-	10	1	1
	Er	5.5	6.1	5.7	5.9	13.8	27.5	-	-	-	5.8	-	-
	pa												
	N												
	Er												
	pa												
	N												
	Er												