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R290
no. 76-245

USGS-OFR-76-245

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(UNITED) STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

[Reports - Open file
series]

Audio-magnetotelluric Data Log, Station
Location Map and Skin Depth Pseudo-
Sections, Crater Hot Springs Known
Geothermal Resource Area, Utah

TRY
can
Twins

By

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Open-file Report 76-245
1976

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1976

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	75	285	685	1.2K	3.3K	6.7K	10.2K	18.6K
1NS	pa	1.42	2.09	1.77	2.99	2.84	1.86	—	—	—	6.15	23.65	4.81
	N	10	6	8	8	10	3	—	—	—	3	1	1
	Er	.30	.45	.19	.25	.20	.16	—	—	—	.55	—	—
1EW	pa	4.53	2.03	2.26	2.34	2.94	5.18	—	—	—	1.97	61.29	7.21
	N	13	7	8	10	11	4	—	—	—	5	1	1
	Er	.78	.38	.18	.15	.10	.49	—	—	—	.48	—	—
2NS	pa	2.22	2.92	3.29	5.37	3.4	3.39	—	—	—	—	33.3	255.6
	N	5	5	6	6	7	6	—	—	—	—	1	1
	Er	.71	.70	1.08	1.44	.5	.60	—	—	—	—	—	—
2EW	pa	4.65	6.57	2.81	2.51	3.04	4.27	—	—	—	4.2	65.4	60.9
	N	6	5	7	6	7	6	—	—	—	5	1	1
	Er	.78	2.01	.24	.20	.25	.61	—	—	—	.78	—	—
3NS	pa	83.0	14.2	62.2	18.2	.35	—	—	—	—	—	—	—
	N	3	2	4	4	3	—	—	—	—	—	—	—
	Er	29.9	.69	23.	5.22	.07	—	—	—	—	—	—	—
3EW	pa	3.92	3.64	2.13	2.88	4.45	5.06	—	—	—	—	3.66	6.9
	N	8	3	7	11	6	2	—	—	—	—	1	1
	Er	.34	.84	.22	.12	.40	.70	—	—	—	—	—	—
4NS	pa	2.81	2.08	2.78	3.15	3.56	—	—	—	—	8.44	13.37	18.07
	N	6	7	6	11	12	—	—	—	—	5	1	1
	Er	.49	.37	.41	.26	.28	—	—	—	—	.54	—	—
4EW	pa	4.91	1.54	3.54	3.56	3.67	—	—	—	—	4.01	66.06	70.13
	N	12	8	10	10	15	—	—	—	—	11	1	1
	Er	.50	.30	.30	.29	.16	—	—	—	—	.29	—	—

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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
5NS	pa	1.97	1.88	3.10	3.94	3.53	-	-	-	-	-	56.7	30.8
	N	5	6	5	10	10	-	-	-	-	-	1	1
	Er	.64	.30	.50	.29	.37	-	-	-	-	-	-	-
5EW	pa	4.17	5.62	2.11	3.75	3.91	-	-	-	-	5.39	93.7	403.
	N	4	5	8	8	10	-	-	-	-	5	1	1
	Er	.83	1.12	.24	.23	.26	-	-	-	-	.63	-	-
6NS	pa	2.24	1.75	2.47	3.39	2.69	-	-	-	-	-	15.5	18.21
	N	10	6	12	9	12	-	-	-	-	-	1	1
	Er	.28	.40	.34	.16	.16	-	-	-	-	-	-	-
6EW	pa	3.89	3.27	2.25	3.05	2.84	-	-	-	-	-	141.5	443.7
	N	10	10	12	14	9	-	-	-	-	-	1	1
	Er	.79	.43	.16	.14	.09	-	-	-	-	-	-	-
7NS	pa	2.9	1.85	2.68	3.96	4.34	-	-	-	-	34.1	76.8	437
	N	8	5	8	11	10	-	-	-	-	5	1	1
	Er	.63	.72	.47	.24	.25	-	-	-	-	11.2	-	-
7EW	pa	4.13	1.25	-	3.64	5.07	-	-	-	-	2.09	27.03	71.22
	N	5	5	-	10	10	-	-	-	-	5	1	1
	Er	.75	.05	-	.22	.29	-	-	-	-	.26	-	-
8NS	pa	1.19	2.25	1.65	3.76	3.06	-	-	-	-	-	42.2	25.7
	N	7	6	10	4	13	-	-	-	-	-	1	1
	Er	.21	.78	.16	.69	.38	-	-	-	-	-	-	-
8EW	pa	4.11	3.48	4.03	3.57	3.12	-	-	-	-	-	-	-
	N	8	5	5	9	10	-	-	-	-	-	-	-
	Er	.5	.63	.11	.63	.55	-	-	-	-	-	-	-

Crater Hot Springs, Utah
1976

U.S. GEOLOGICAL SURVEY A.M.T. DATA LOG

ρ_a = observed apparent resistivity in ohm-metres

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E_r = standard error in ohm-metres

- = no data

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

[illegible]

19°37'30"

Skin depth pseudosection, telluric line east-west

Skin depth pseudosection, telluric line north-south

- AMT station location
- ◡ Audio-magnetotelluric station
- 100-- Line of equal apparent resistivity. Dashed where data are incomplete. Interval, in ohm-metres, is

Figure 1. Audio-magnetotelluric station location map and skin