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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Σ Report Open file

Audio-magnetotelluric data log and station
location map for the Klamath Falls Known
Geothermal Resource Area, Oregon

By

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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.

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MENLO PARK
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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	76	285	685	1.2K	3.3K	6.7K	10.2K	18.6K
1NS	pa	7.8	9.6	15.5	22.3	38.4	63.5	-	-	-	605	345	4193
	N	4	9	5	9	10	6	-	-	-	6	1	1
	Er	2.1	2.1	6.5	1.1	6.3	2.5	-	-	-	60	-	-
1EW	pa	8.4	11.5	13.9	17.8	23.1	25.0	-	-	-	104	741	5317
	N	7	8	8	10	10	6	-	-	-	6	1	1
	Er	1.4	.6	.9	1.3	1.1	2.0	-	-	-	9	-	-
3NS	pa	26.6	7.6	17.8	50.2	-	-	-	-	-	-	85.4	341
	N	5	6	6	6	-	-	-	-	-	-	1	1
	Er	2.2	1.3	5.1	15.2	-	-	-	-	-	-	-	-
3EW	pa	65.2	11.3	13.7	55.0	-	-	-	-	-	-	374	508
	N	4	4	4	5	-	-	-	-	-	-	1	1
	Er	1.4	2.4	4.8	11.6	-	-	-	-	-	-	-	-
6NS	pa	13.3	26.8	19.8	-	-	-	-	-	-	-	-	-
	N	5	3	4	-	-	-	-	-	-	-	-	-
	Er	2.6	14.0	4.3	-	-	-	-	-	-	-	-	-
6EW	pa	24.6	26.9	56.3	-	-	-	-	-	-	-	-	-
	N	5	4	5	-	-	-	-	-	-	-	-	-
	Er	8.2	12.2	37.8	-	-	-	-	-	-	-	-	-
7NS	pa	6.6	9.6	20.5	14.3	7.2	6.5	-	-	-	470	499	1496
	N	5	6	8	6	8	7	-	-	-	6	6	1
	Er	.82	1.4	2.9	1.8	1.4	.42	-	-	-	20.8	34.9	-
7EW	pa	8.9	9.2	8.8	7.9	5.9	7.3	-	-	-	95.8	1092	-
	N	10	7	7	9	7	5	-	-	-	7	7	-
	Er	1.3	1.6	.56	.71	1.1	.72	-	-	-	7.4	8.5	-

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		7.5	10	14	27	76	285	685	1.2K	3.3K	6.7K	10.2K	18.6K
9NS	pa	10.6	15.3	19.4	36.1	46.6	41.4	-	-	-	253	511	221
	N	11	6	7	9	9	11	-	-	-	11	1	1
	Er	.96	1.6	1.7	3.2	3.1	1.3	-	-	-	19.2	-	-
9EW	pa	10.1	9.3	11.3	14.9	24.6	32.6	-	-	-	59.6	681	-
	N	11	8	11	13	12	10	-	-	-	9	1	1
	Er	.65	.90	.54	.68	1.9	4.1	-	-	-	2.8	-	-
10NS	pa	4.7	4.8	6.1	9.1	7.1	9.0	-	-	-	69.7	167	152
	N	6	6	10	16	9	5	-	-	-	7	1	1
	Er	.83	.17	.49	.64	.62	.39	-	-	-	9.2	-	-
10EW	pa	9.4	14.7	6.2	7.1	8.0	8.3	-	-	-	38.1	219	8838
	N	16	11	9	10	10	4	-	-	-	11	1	1
	Er	.63	.95	.36	.40	.20	.25	-	-	-	5.3	-	-
14NS	pa	5.4	5.2	10.9	16.8	17.2	12.7	-	-	11.5	9.2	28.2	8.6
	N	6	6	7	7	9	6	-	-	3	5	1	1
	Er	.90	1.48	1.45	2.12	.75	1.16	-	-	2.9	1.3	-	-
14EW	pa	13.7	16.5	15.0	14.8	16.2	12.3	-	-	40.7	37.8	228	108
	N	12	12	17	8	8	6	-	-	3	8	1	1
	Er	1.1	1.5	.74	.84	2.2	.75	-	-	18.4	3.2	-	-
16NS	pa	.64	1.5	6.3	.80	.82	-	-	-	-	-	139	-
	N	4	4	4	3	3	-	-	-	-	-	1	1
	Er	.18	.62	.14	.06	.13	-	-	-	-	-	-	-
16EW	pa	7.0	12.7	9.9	10.6	11.3	27.8	-	-	-	17.8	186	851
	N	5	6	7	7	6	4	-	-	-	6	1	1
	Er	.94	1.6	.83	.84	1.6	4.8	-	-	-	1.4	-	-

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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
18NS	pa	17.5	28.7	14.8	17.6	41.9	—	—	—	—	81.7	42.9	171
	N	6	8	8	7	9	—	—	—	—	5	1	1
	Er	1.9	6.1	1.9	3.4	4.4	—	—	—	—	12.5	—	—
18EW	pa	2.9	4.3	2.8	6.8	11.7	16.9	—	—	—	20.2	23.0	585.4
	N	7	9	7	9	10	3	—	—	—	7	1	1
	Er	.34	.70	.60	.49	.80	2.30	—	—	—	1.8	—	—
19NS	pa	2.3	7.0	11.8	16.1	6.6	8.4	—	—	—	3.7	300	96
	N	4	7	7	8	6	7	—	—	—	5	1	1
	Er	.79	2.04	2.23	4.40	.79	.93	—	—	—	.31	—	—
19EW	pa	10.0	8.8	11.9	13.6	13.3	19.5	—	—	—	66.5	69.8	—
	N	9	8	7	8	9	7	—	—	—	7	1	1
	Er	1.2	1.4	1.0	3.2	.58	2.1	—	—	—	9.9	—	—
22NS	pa	10.6	25.5	29.3	15.1	28.2	9.3	—	—	—	136	933	196
	N	6	6	6	11	7	7	—	—	—	4	1	1
	Er	1.4	9.5	3.6	2.5	5.7	2.3	—	—	—	17.8	—	—
22EW	pa	60.1	60.8	67.9	44.2	36.5	16.7	—	—	—	49.2	971	5267
	N	8	9	6	9	6	6	—	—	—	6	1	1
	Er	7.2	5.4	8.2	7.8	1.4	4.2	—	—	—	8.8	—	—
23NS	pa	3.1	4.5	12.6	8.2	17.2	87.8	—	—	—	83.1	—	152
	N	5	4	6	11	6	5	—	—	—	2	1	1
	Er	.87	.78	2.77	.87	3.64	17.5	—	—	—	59.6	—	—
23EW	pa	20.6	19.4	23.9	22.5	18.9	18.4	—	—	—	—	197	—
	N	9	7	16	18	11	6	—	—	—	—	1	—
	Er	1.4	5.1	1.9	1.1	.99	.93	—	—	—	—	—	—

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		7.5	10	14	27	76	285	685	1.2K	3.3K	6.7K	10.2K	18.6K
24NS	pa	39.7	50.3	99.4	72.4	69.5	95.4	-	-	-	12.9	34.9	10.2
	N	11	8	8	12	12	11	-	-	-	9	1	1
	Er	4.11	7.20	17.40	16.80	11.40	1.60	-	-	-	2.4	-	-
24EW	pa	39.2	29.7	43.9	54.6	79.2	88.1	-	-	-	26.8	141	832
	N	11	11	17	12	11	12	-	-	-	12	1	1
	Er	2.7	2.7	2.7	2.7	2.9	4.5	-	-	-	3.6	-	-
25NS	pa	16.7	19.2	29.5	39.4	42.2	17.5	-	-	37.4	18.6	130	63.6
	N	6	6	9	11	16	8	-	-	2	7	1	1
	Er	4.0	2.9	2.6	5.2	6.9	1.9	-	-	1.8	5.9	-	-
25EW	pa	20.0	19.9	18.2	20.9	26.5	46.7	-	-	-	11.5	136	-
	N	9	6	8	7	10	12	-	-	-	8	1	-
	Er	2.9	3.8	1.9	1.3	1.6	4.2	-	-	-	1.4	-	-
26NS	pa	12.6	14.6	29.4	51.7	48.9	32.6	-	-	-	52.1	923	1435
	N	6	7	6	8	7	9	-	-	-	8	1	1
	Er	2.5	2.6	5.2	4.2	4.3	2.2	-	-	-	3.4	-	-
26EW	pa	4.3	4.7	6.2	11.4	22.0	35.8	-	-	-	39.7	615	1793
	N	7	10	8	9	7	2	-	-	-	7	1	1
	Er	.47	.66	.61	.76	1.03	0	-	-	-	55.1	-	-
27NS	pa	9.0	19.8	19.1	17.2	30.3	77.2	-	-	76.0	103	2261	93.5
	N	10	8	13	12	15	6	-	-	3	8	1	1
	Er	.80	4.4	1.9	1.6	1.3	1.7	-	-	7.5	2.3	-	-
27EW	pa	6.6	10.0	8.9	9.3	20.3	45.2	-	-	24.5	104	1785	165
	N	12	11	12	9	11	8	-	-	4	11	1	1
	Er	.65	.88	.63	1.18	.68	3.2	-	-	6.0	11.8	-	-

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		7.5	10	14	27	76	285	685	1.2K	3.3K	6.7K	10.2K	18.6K
28NS	pa	35.4	16.9	42.7	69.5	34.0	-	-	-	-	38.9	267	83.1
	N	8	5	4	8	10	-	-	-	-	4	1	1
	Er	10.5	3.2	10.0	9.3	1.3	-	-	-	-	2.7	-	-
28EW	pa	11.3	13.4	16.9	12.8	10.4	9.6	-	-	-	12.1	473	-
	N	6	7	8	7	8	6	-	-	-	6	1	1
	Er	1.8	1.5	2.7	1.3	.28	.40	-	-	-	1.4	-	-
29NS	pa	5.1	7.7	3.1	5.9	5.5	6.4	-	-	108	196	308	96
	N	6	12	5	7	10	7	-	-	3	7	1	1
	Er	.57	.60	.34	.70	.75	1.4	-	-	6.7	22.8	-	-
29EW	pa	24.5	22.2	33.8	24.6	19.0	16.3	-	-	95.2	22.6	336	-
	N	9	9	10	9	14	12	-	-	4	8	1	1
	Er	1.88	1.98	2.37	1.77	1.28	1.57	-	-	34.2	16.2	-	-
30NS	pa	18.5	17.6	22.8	23.5	16.7	27.9	-	-	-	12.6	232	77
	N	8	6	6	7	6	3	-	-	-	5	1	1
	Er	2.9	3.2	3.7	2.0	2.0	8.4	-	-	-	13.0	-	-
30EW	pa	10.3	11.1	10.9	10.1	10.3	10.5	-	-	-	39	256	-
	N	8	8	9	8	8	6	-	-	-	9	1	-
	Er	1.1	1.7	1.1	1.2	.99	.65	-	-	-	4.9	-	-
31NS	pa	10.9	26.4	21.4	17.5	23.8	-	-	60.3	-	300	307	202
	N	9	6	9	11	6	-	-	3	-	13	2	-
	Er	.45	3.2	1.5	1.7	1.4	-	-	3.2	-	24.9	-	-
31EW	pa	15.9	14.4	19.3	14.1	22.5	-	-	19.3	8.2	48.0	190	-
	N	10	10	11	10	8	-	-	2	5	12	1	-
	Er	1.5	.83	1.5	.82	.94	-	-	.63	.36	2.1	-	-

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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
32NS	pa	3.37	12.34	12.47	14.24	15.22	11.56	-	-	-	131	181	66
	N	7	6	7	11	6	4	-	-	-	6	1	1
	Er	.78	2.93	2.03	.93	.33	.38	-	-	-	7.16	-	-
32EW	pa	13.38	7.31	10.17	13.16	20.55	15.38	-	-	-	87.9	435	480.5
	N	8	9	9	8	8	7	-	-	-	8	1	1
	Er	4.8	1.1	.66	1.5	2.8	.95	-	-	-	2.6	-	-
33NS	pa	44.8	92.8	61.9	362.9	1297.0	853	-	-	-	531	1392	206.5
	N	5	8	9	9	7	7	-	-	-	10	-	-
	Er	4.1	24.0	7.5	38.3	169	78.1	-	-	-	17.0	-	-
33EW	pa	16.5	20.7	24.4	40.6	-	38.2	-	-	-	78.2	575	-
	N	12	7	13	12	-	8	-	-	-	14	-	-
	Er	1.1	1.1	1.5	2.2	-	6.6	-	-	-	3.8	-	-
34NS	pa	47.7	34.4	32.2	55.4	42.3	25.8	-	-	-	60.8	128.2	52.5
	N	6	4	7	12	10	5	-	-	-	5	1	1
	Er	6.2	8.2	3.9	5.0	3.3	4.9	-	-	-	9.2	-	-
34EW	pa	11.9	19.2	10.4	19.2	21.9	50.7	-	-	-	61.4	373	7313
	N	6	5	9	8	7	9	-	-	-	9	1	1
	Er	1.7	3.6	1.6	2.5	2.5	12.5	-	-	-	2.4	-	-
	pa												
	N												
	Er												
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	N												
	Er												