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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Audio-magnetotelluric data log and station
location map for Lund Known Geothermal
Resource Area, Utah

By

Susan Gardner, Jackie M. Williams and
Donald B. Hoover

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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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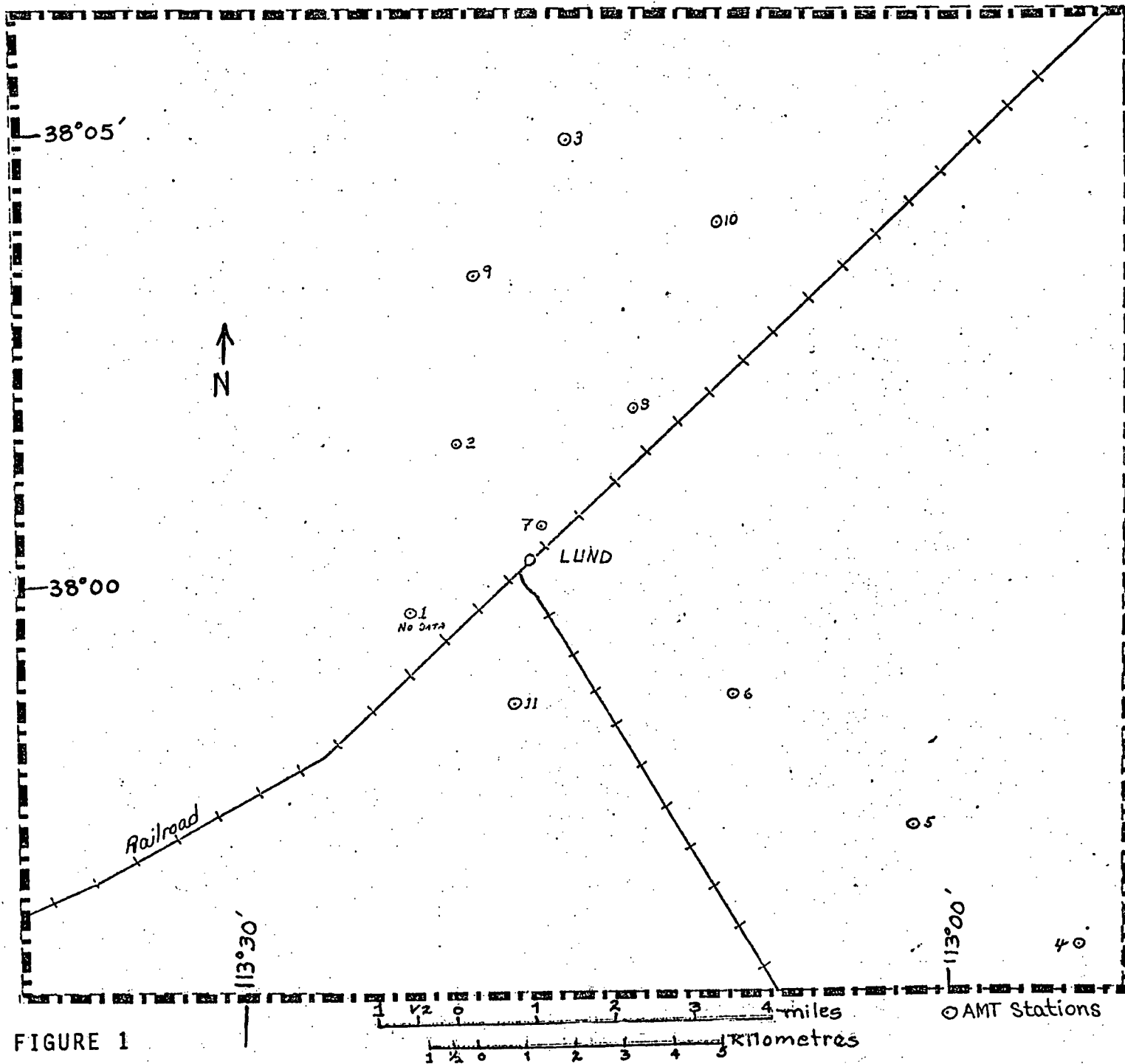


FIGURE 1

Audio-magnetotelluric station location map for the Lund KGRA (Known Geothermal Resource Area), Utah.

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
2NS	pa	13.2	—	—	10.3	11.1	15.7	—	—	—	7.3	—	4.4
	N	5	—	—	11	10	10	—	—	—	9	—	1
	Er	2.8	—	—	0.9	0.3	0.5	—	—	—	0.3	—	1
2EW	pa	54.2	—	—	23.3	17.3	25.7	—	—	—	24.8	1.3	2.7
	N	9	—	—	12	9	8	—	—	—	13	1	1
	Er	3.5	—	—	0.5	0.4	1.8	—	—	—	21.9	—	—
3NS	pa	—	—	—	51.9	48.3	50.5	—	—	—	10.6	8.5	7.9
	N	—	—	—	14	6	10	—	—	—	10	1	1
	Er	—	—	—	3.8	1.7	6.9	—	—	—	0.6	—	—
3EW	pa	27.6	—	—	—	—	—	—	—	—	—	—	—
	N	3	—	—	—	—	—	—	—	—	—	—	—
	Er	4.4	—	—	—	—	—	—	—	—	—	—	—
4NS	pa	—	—	25.1	14.9	25.0	32.8	41.3	—	—	10.9	1.1	8.3
	N	—	—	8	10	11	10	4	—	—	10	1	1
	Er	—	—	7.8	1.0	2.0	3.6	4.7	—	—	0.7	—	—
4EW	pa	21.0	18.3	19.2	26.3	36.0	47.7	33.4	—	—	4.7	2.0	1.4
	N	9	10	7	10	12	9	7	—	—	10	1	1
	Er	2.0	1.5	1.3	1.7	1.0	2.6	3.2	—	—	0.4	—	—
5NS	pa	7.9	—	—	14.6	33.9	21.0	33.0	—	—	39.9	12.3	73.2
	N	7	—	—	7	8	9	3	—	—	10	1	1
	Er	0.9	—	—	1.7	2.1	3.0	2.1	—	—	0.9	—	—
5EW	pa	15.2	15.3	11.6	13.0	23.2	28.7	—	—	—	5.8	8.7	5.2
	N	11	5	11	10	10	10	—	—	—	11	1	1
	Er	1.3	1.4	0.7	0.7	1.3	1.2	—	—	—	0.2	—	—

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

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
6NS	pa	14.7	9.9	16.3	21.5	33.9	28.5	23.8	-	-	10.6	11.1	7.2
	N	5	2	10	10	12	10	5	-	-	10	1	1
	Er	4.3	4.5	0.4	0.6	1.2	1.1	0.9	-	-	0.7	-	-
6EW	pa	22.9	24.2	27.8	23.9	43.1	38.2	46.1	-	-	11.1	22.6	17.6
	N	10	11	9	10	11	9	8	-	-	10	1	1
	Er	2.9	1.4	2.5	1.4	2.6	5.1	10.0	-	-	0.5	-	-
7NS	pa	-	9.3	5.0	4.8	4.2	2.7	17.8	-	-	0.5	9.4	31.2
	N	-	3	6	7	11	9	3	-	-	3	1	1
	Er	-	0.6	0.9	0.3	0.2	0.2	7.2	-	-	0.02	-	-
7EW	pa	-	6.4	5.4	3.6	3.8	3.9	1.6	-	-	2.7	4.6	2.1
	N	-	4	7	10	7	8	7	-	-	7	1	1
	Er	-	1.7	0.6	0.2	0.1	0.2	0.1	-	-	0.4	-	-
8NS	pa	-	-	5.3	-	2.8	2.1	6.4	-	-	1.5	-	-
	N	-	-	9	-	8	11	5	-	-	11	-	-
	Er	-	-	0.5	-	0.7	0.1	0.4	-	-	0.3	-	-
8EW	pa	6.6	-	4.5	3.5	4.1	10.3	24.3	-	-	3.8	9.3	7.7
	N	10	-	8	10	8	10	6	-	-	10	1	1
	Er	1.2	-	0.3	0.1	0.3	2.9	0.6	-	-	0.2	-	-
9NS	pa	9.5	23.2	22.0	27.5	94.6	96.9	-	-	-	129.0	42.2	-
	N	3	5	12	9	6	10	-	-	-	10	1	-
	Er	1.8	4.7	1.2	1.1	27.7	7.2	-	-	-	3.7	-	-
9EW	pa	8.1	-	-	-	49.7	77.6	-	-	-	45.7	5.9	32.6
	N	5	-	-	-	8	7	-	-	-	10	1	1
	Er	4.8	-	-	-	3.5	8.0	-	-	-	2.5	-	-

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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
10NS	pa	2.6	-	-	22.8	-	1.3	-	-	-	2.0	-	-
	N	5	-	-	10	-	10	-	-	-	9	-	-
	Er	0.6	-	-	1.5	-	0.2	-	-	-	0.3	-	-
10EW	pa	14.6	-	-	19.9	-	77.2	-	-	-	-	-	-
	N	9	-	-	10	-	10	-	-	-	-	-	-
	Er	2.0	-	-	0.9	-	8.6	-	-	-	-	-	-
11NS	pa	-	12.1	12.7	13.6	19.2	12.2	10.5	-	-	26.7	11.5	57.6
	N	-	7	10	10	10	10	11	-	-	5	1	1
	Er	-	0.3	0.9	0.9	0.8	0.7	0.6	-	-	2.1	-	-
11EW	pa	11.3	6.5	12.2	13.5	16.3	14.9	10.5	-	-	4.1	5.9	1.3
	N	10	9	9	10	9	10	9	-	-	10	1	1
	Er	0.8	2.2	0.6	0.6	1.4	0.7	0.8	-	-	0.1	-	-
	pa												
	N												
	Er												
	pa												
	N												
	Er												
	pa												
	N												
	Er												