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UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Audio-magnetotelluric station location map and
data log for Double Hot Springs Known Geothermal
Resource Area, Nevada.

Humboldt Co.

By

R. M. Senterfit and D. 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.

**UNIVERSITY OF UTAH
RESEARCH INSTITUTE
EARTH SCIENCE LAB.**

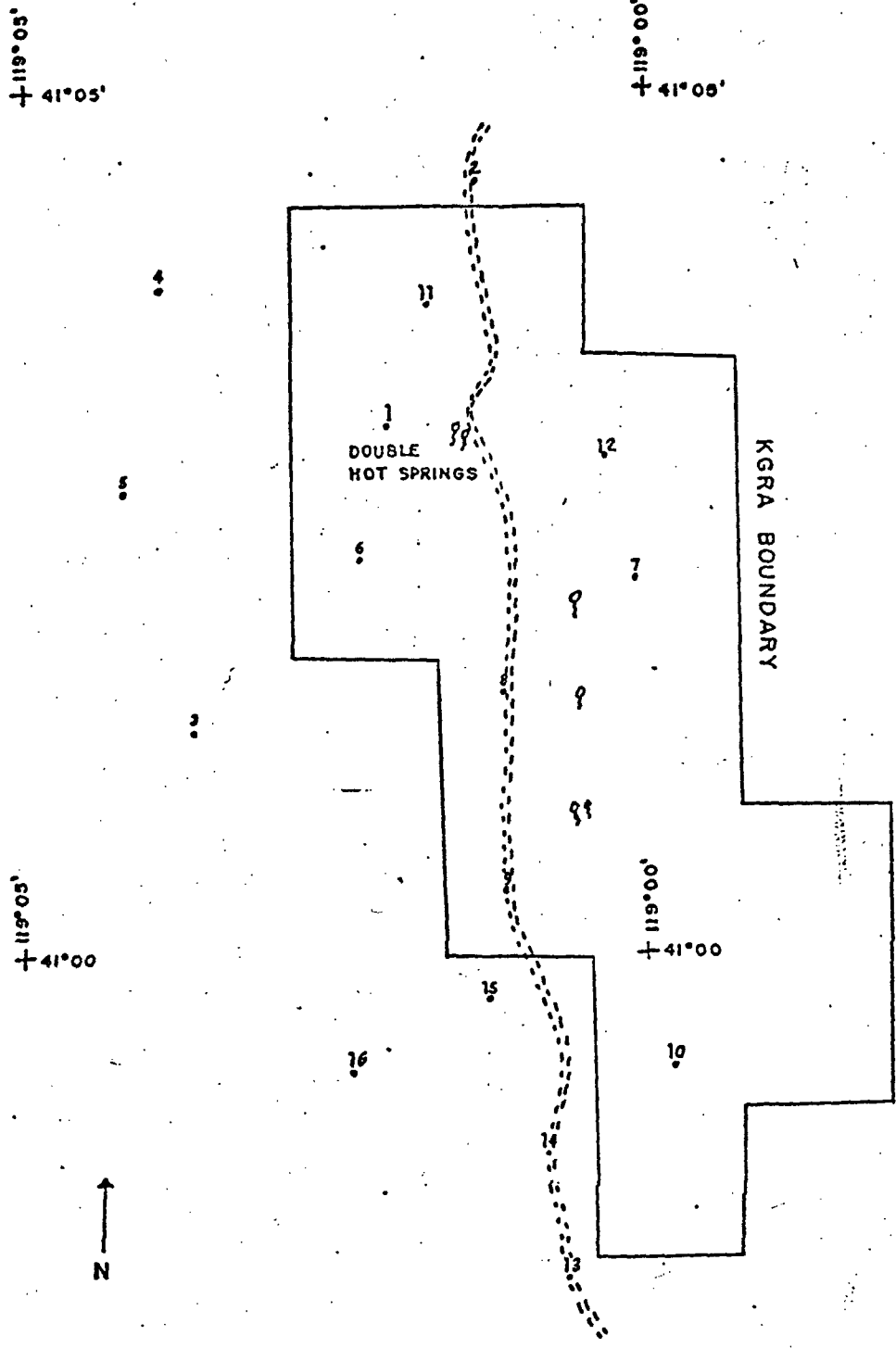


FIGURE 1. AUDIO-MAGNETOTELLURIC STATION LOCATION MAP
 DOUBLE HOT SPRINGS KNOWN GEOTHERMAL RESEARCH AREA, NEVADA

SCALE: 1977
 BY R.M. SENTERFIT & C.L. LONG

LEGEND
 ? SPRINGS
 • STATION LOCATIONS

0 .5 1.0 Miles
 0 .5 1.0 2.0 Kilometers

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
1 _{NS}	pa	3.9	4.5	3.7	4.5	4.2	1.6	—	—	—	5.7	2.2	1.5
	N	6	5	7	5	6	6				4	1	1
	Er	0.6	0.8	0.3	0.3	0.1	0.1				0.7	—	—
1 _{EW}	pa	3.5	3.2	1.2	2.5	4.2	4.1	—	—	—	—	1.5	0.9
	N	5	5	5	5	5	6					1	1
	Er	0.1	0.8	0.1	0.2	0.2	0.3					—	—
2 _{NS}	pa	55.3	23.3	20.1	15.6	9.0	19.3	—	—	—	32.3	44.0	18.3
	N	5	4	6	5	4	5				4	1	1
	Er	20.7	9.5	6.7	2.3	1.7	0.7				4.8	—	—
2 _{EW}	pa	47.9	36.2				11.6	—	—	—	26.2	—	48.1
	N	6	5	4	5	5	5				6		1
	Er	9.8	7.2	1.4	1.4	0.7	3.5				3.4		
3 _{NS}	pa	3.1	2.1	1.5	1.3	1.1	—	—	—	—	1.8	—	—
	N	5	3	4	4	5					4		
	Er	0.5	0.3	0.3	0.4	0.1					0.3		
3 _{EW}	pa	5.8	1.9	1.2	1.2	1.9	—	—	—	—	—	—	—
	N	5	5	5	4	6							
	Er	0.9	0.1	0.4	0.2	0.4							
4 _{NS}	pa	4.4	4.5	4.2	3.4	1.7	0.5	—	—	—	3.6	1.2	1.4
	N	6	6	6	6	6	4				5	1	1
	Er	0.2	0.1	0.3	0.2	0.1	0.03				0.7	—	—
4 _{EW}	pa	4.7	5.4	3.2	2.8	2.3	0.9	—	—	—	0.7	1.0	0.9
	N	6	6	6	6	6	4				4	1	1
	Er	0.3	0.7	0.4	0.2	0.4	0.1				0.04	—	—

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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
5 _{NS}	pa	3.7	3.9	2.9	2.5	1.5	0.7	-	-	-	-	-	1.1
	N	5	5	5	5	5	5						1
	Er	0.7	0.4	0.3	0.04	0.03	0.1						
5 _{EW}	pa	4.7	4.5	2.9	2.6	3.9	9.6	-	-	-	-	-	26.1
	N	5	3	5	5	5	5						1
	Er	0.4	1.1	0.5	0.1	0.2	1.3						-
6 _{NS}	pa	1.9	1.7	1.6	1.4	0.9	0.3	-	-	-	1.2	0.8	0.5
	N	6	5	5	6	5	5				5	1	1
	Er	0.1	0.2	0.1	0.3	0.1	0.01				0.1	-	-
6 _{EW}	pa	2.4	1.8	1.4	1.3	1.0	0.5	-	-	-	0.3	0.3	0.5
	N	5	5	6	6	5	5				4	1	1
	Er	0.6	0.2	0.3	0.1	0.1	0.01				0.01	-	-
7 _{NS}	pa	27.5	25.3	28.2	31.1	29.1	-	-	-	-	43.7	29.2	13.6
	N	6	3	4	4	4					4	1	1
	Er	2.1	5.6	3.5	4.1	2.3					3.3	-	-
7 _{EW}	pa	5.4	9.6	10.3	11.6	19.3	10.3	-	-	-	38.9	18.3	94.3
	N	5	3	4	4	5	4				5	1	1
	Er	0.5	1.5	0.3	1.3	0.7	3.7				3.0	-	-
8 _{NS}	pa	-	-	-	-	-	-	-	-	-	25.0	15.1	14.8
	N										4	1	1
	Er										3.2	-	-
8 _{EW}	pa	-	-	-	-	-	-	-	-	-	-	-	-
	N												
	Er												

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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	13.8	9.3	11.2	10.2	7.5	3.0	-	-	-	22.1	10.1	7.8
	N	5	4	6	6	5	5				5	1	1
	Er	2.2	1.9	1.6	1.8	0.7	0.4				2.4	-	-
9EW	pa	10.4	9.7	9.0	6.2	14.4	3.5	-	-	-	7.8	-	-
	N	5	5	5	6	5	4				7	1	1
	Er	2.7	1.2	0.2	1.2	1.3	0.9				0.9	-	-
10NS	pa	14.4	12.3	14.2		10.3	3.5	-	-	-	24.8	7.9	7.2
	N	6	6	6	5	5	5				4	1	1
	Er	0.2	0.4	1.9	4.6	1.6	0.6				2.2	-	-
10EW	pa	87.8	120.4	126.2	98.9	22.4		-	-	-	24.6	2.5	2.1
	N	6	5	4	4	6					4	1	1
	Er	15.9	29.0	42.6	12.7	4.2	1.2				2.4	-	-
11NS	pa	3.2	4.5	3.7	5.7	4.9	1.5	-	-	-	13.5	8.8	8.7
	N	5	5	5	4	4	4				5	1	1
	Er	0.2	1.1	0.5	0.3	0.3	0.3				0.5	-	-
11EW	pa	4.9	4.0	2.4	4.6	5.6	-	-	-	-	6.2	2.3	10.4
	N	5	5	5	5	5					4	1	1
	Er	0.3	0.7	0.3	0.1	0.3					0.7	-	-
12NS	pa	4.5	-	8.0	3.6	3.7	3.2	-	-	-	33.0	12.6	15.8
	N	6		5	6	6	4				4	1	1
	Er	0.3		0.4	0.4	0.5	0.9				4.6	-	-
12EW	pa	4.9	7.7	5.8	4.8	5.2	6.5	-	-	-	4.8	11.1	6.5
	N	6	6	5	6	6	6				4	1	1
	Er	0.5	0.4	0.8	0.7	0.8	1.2				1.5	-	-

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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
13NS	pa	90.6	71.1		81.7	125.9	53.8	-	-	-	57.5	31.4	24.8
	N	5	4		5	5	5				6	1	1
	Er	9.2	14.4		8.4	9.2	8.2				10.4	-	-
13EW	pa	68.6	24.6		25.5	118.0	84.6	-	-	-	14.3	8.0	4.8
	N	6	5		4	5	5				6	1	1
	Er	8.2	5.0		6.4	12.1	4.2				2.7	-	-
14NS	pa	2.3	2.3	1.8	1.5	0.7	0.3	-	-	-	4.2	0.9	1.1
	N	6	5	5	5	4	4				5	1	1
	Er	0.4	0.2	0.6	0.1	0.2	0.04				0.5	-	-
14EW	pa	4.2	1.0	0.5	0.6	0.7	0.7	-	-	-	1.0	0.8	0.4
	N	6	5	4	4	4	4				5	1	1
	Er	0.9	0.3	0.1	0.04	0.2	0.1				0.2	-	-
15NS	pa	2.1	2.3	1.3	1.2	1.4	0.5	-	-	-	10.3	4.7	4.4
	N	4	5	5	5	4	4				5	1	1
	Er	0.5	0.9	0.1	0.3	0.1	0.01				0.9	-	-
15EW	pa	2.3	2.0	1.1	1.0	1.6	1.3	-	-	-	2.9	1.8	3.1
	N	4	4	4	4	4	4				4	1	1
	Er	0.2	0.7	0.1	0.02	0.04	0.02				0.2	-	-
16NS	pa	1.7	1.1	1.0	0.3	0.3	-	-	-	-	0.7	0.6	0.4
	N	5	4	5	4	4					4	1	1
	Er	0.2	0.2	0.4	0.01	0.1					0.2	-	-
16EW	pa	0.9	1.4	0.9	0.2	0.2	-	-	-	-	0.3	0.4	0.2
	N	6	4	5	4	4					4	1	1
	Er	0.2	0.6	0.2	0.02	0.05					0.1	-	-