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USGS
OFR
76-700F

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Audio-magnetotelluric station location map,
Breitenbush Known Geothermal Resource Area,
Oregon

Marion Co

By

Robert M. Senterfit and Carl L. Long

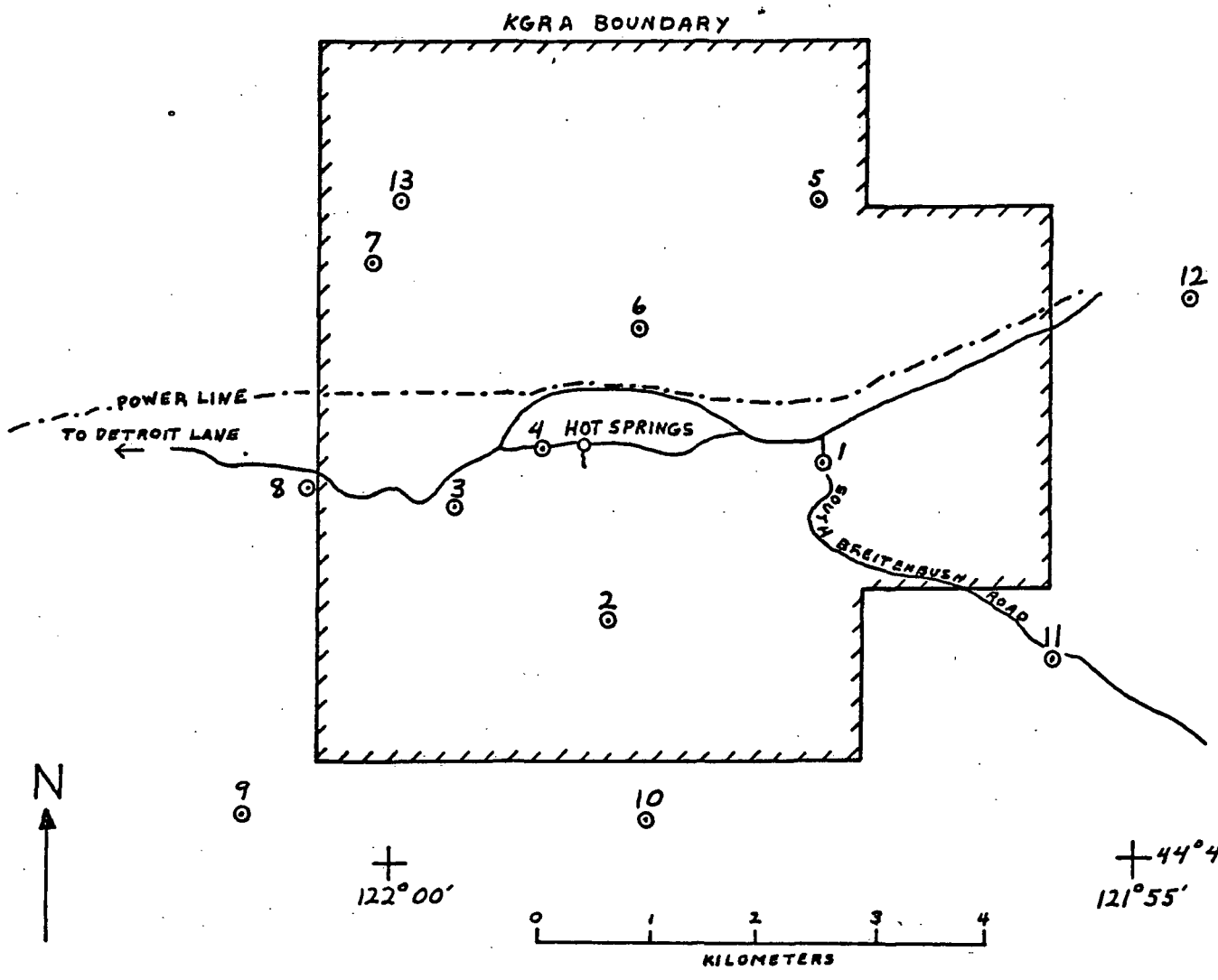
Open-File Report 76-700F
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This report is preliminary and has not been
edited or reviewed for conformity with U.S.
Geological Survey standards and nomenclature.

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

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+44°50'



BREITENBUSH KGRA
OREGON

AMT STATION LOCATION MAP

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	7.2	9.7	10.8	17.2	25.0	59.8	-	-	-	-	-	-
	N	9	8	8	10	10	8						
	Er	0.9	1.8	0.6	0.5	1.7	8.6						
1EW	pa	6.9	4.0	2.6	4.8	8.0	-	-	-	-	-	-	-
	N	8	7	9	8	6							
	Er	1.1	0.4	0.4	0.4	0.9							
2NS	pa	24.9	34.1	28.6	46.6	33.8	-	-	-	-	-	-	-
	N	8	8	10	10	11							
	Er	4.7	3.9	0.9	5.2	1.2							
2EW	pa	7.5	8.8	3.2	5.4	7.6	16.9	-	-	-	-	-	-
	N	9	10	10	10	9	7						
	Er	1.8	1.7	0.4	0.3	0.8	1.7						
3NS	pa	45.2	29.5	44.3	50.9	49.4	24.8	-	-	-	-	-	-
	N	11	6	10	9	9	8						
	Er	5.3	4.5	3.8	4.4	7.3	2.6						
3EW	pa	15.0	15.7	10.3	9.8	10.8	-	-	-	-	-	-	-
	N	10	10	11	8	10							
	Er	1.8	1.5	0.8	1.7	0.6							
4NS	pa	19.5	12.5	13.6	13.5	17.3	12.3	-	-	-	-	-	-
	N	9	7	7	9	7	2						
	Er	1.8	1.6	0.9	1.9	0.7	1.9						
4EW	pa	42.2	29.9	9.9	10.7	15.0	-	-	-	-	-	-	-
	N	11	10	7	8	3							
	Er	5.0	3.6	1.0	0.6	1.2							

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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	30.8	25.8	30.5	52.5	66.4	62.2	-	-	-	-	-	-
	N	10	8	10	10	8	3						
	Er	4.2	3.4	3.8	4.9	3.1	14.0						
5EW	pa	46.3	26.4	14.2	29.7	32.4	-	-	-	-	-	-	-
	N	10	8	9	10	11							
	Er	7.1	3.5	1.2	1.9	2.2							
6NS	pa	19.8	28.7	15.4	17.5	34.3	-	-	-	-	-	-	-
	N	10	10	8	7	5							
	Er	2.1	1.8	2.1	1.9	1.5							
6EW	pa	43.3	32.5	16.9	22.8	52.6	-	-	-	-	-	-	-
	N	10	7	8	9	5							
	Er	7.4	3.4	2.5	2.6	5.9							
7NS	pa	35.7	17.3	29.7	33.9	29.9	19.8	-	-	-	-	-	-
	N	10	10	10	11	10	10						
	Er	3.4	2.9	3.1	3.4	2.4	0.7						
7EW	pa	11.9	12.9	8.1	11.8	15.3	-	-	-	-	-	-	-
	N	10	10	12	11	8							
	Er	1.8	2.0	0.4	0.9	1.2							
8NS	pa	79.0	79.1	93.5	79.9	119.5	41.8	-	-	-	-	-	-
	N	9	7	3	8	8	4						
	Er	7.5	10.6	19.8	15.9	3.9	1.3						
8EW	pa	20.1	20.4	25.8	25.9	33.2	-	-	-	-	-	-	-
	N	8	9	6	8	8							
	Er	1.7	1.7	3.7	2.3	2.5							

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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
9NS	pa	20.6	16.8	12.5	20.3	21.5	15.8	-	-	-	-	-	-
	N	9	8	10	11	11	9						
	Er	2.9	1.7	1.0	2.4	0.9	2.0						
9EW	pa	20.2	16.9	14.7	14.3	19.1	-	-	-	-	-	-	-
	N	11	10	10	10	11							
	Er	2.2	2.0	1.2	0.9	0.9							
10NS	pa	23.1	18.6	21.3	34.9	39.3	54.7	-	-	-	-	-	-
	N	5	9	10	12	6	9						
	Er	2.7	1.4	2.2	2.3	4.2	5.1						
10EW	pa	13.6	11.8	13.6	17.9	27.9	-	-	-	-	-	-	-
	N	8	10	11	11	4							
	Er	1.6	1.6	1.1	0.8	2.5							
11NS	pa	20.3	22.5	23.4	27.4	32.3	21.8	-	-	-	-	-	-
	N	9	9	10	10	10	4						
	Er	1.2	3.5	1.5	1.4	3.4	3.4						
11EW	pa	19.2	14.8	16.8	22.8	28.9	-	-	-	-	-	-	-
	N	8	7	10	8	10							
	Er	1.9	1.7	1.2	1.9	2.6							
12NS	pa	36.4	38.4	24.7	42.8	62.3	-	-	-	-	-	-	-
	N	14	10	11	10	3							
	Er	5.0	6.4	1.3	2.4	13.1							
12EW	pa	25.5	31.4	15.6	11.6	-	-	-	-	-	-	-	-
	N	10	10	10	10								
	Er	2.8	2.5	2.4	1.0								

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

ρ_a = observed apparent resistivity in ohm-metres

N = number of observations

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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	ρ _a	22.3	20.8	28.0	37.2	40.5	32.3	-	-	-	-	-	-
	N	11	11	11	9	10	9						
	Er	2.7	2.8	2.3	2.7	2.2	1.4						
13EW	ρ _a	8.7	7.8	5.1	7.8	9.7	-	-	-	-	-	-	-
	N	9	6	10	11	11							
	Er	1.4	1.1	0.3	0.6	0.3							
	ρ _a												
	N												
	Er												
	ρ _a												
	N												
	Er												
	ρ _a												
	N												
	Er												
	ρ _a												
	N												
	Er												
	ρ _a												
	N												
	Er												