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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Humboldt Co.

By

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Open-File Report 77-65A
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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.**

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	22.7	23.2	18.7	12.4	14.0	24.2	27.9	-	-	32.	12.7	53.3
	N	7	9	6	14	16	6	14.	-		14	1	1
	Er	1.6	1.6	1.7	1.1	1.9	4.8	7.4			3.2	-	-
1E-W	pa	7.55	5.1	3.7	3.5	24.7	9.65	58.	-	-	19.5	35.1	88.4
	N	7	8	7	15	16	8	4			6	1	1
	Er	1.5	0.4	0.4	0.3	4.3	0.95	6.6			1.2	-	-
2NS	pa	7.6	9.5	6.7	39.	8.5	15.	-	-	-	66.	46.	12
	N	8	5	10	11	7	5				1	1	
	Er	1.5	1.2	1.4	10.2	1.5	1.6				6.2	-	-
2E-W	pa	7.9	6.8	7.7	8.1	4.3	7.8	-	-	-	101	76	152
	N	5	9	9	8	6	9				6	1	1
	Er	0.9	0.9	1.4	1.5	0.4	1.0				9.6	-	-
3NS	pa	18.9	46.	43.	35	40.	46.	30	-	-	34.	31	15.2
	N	9	3	3	10	12	17	7			4	1	1
	Er	3.3	15.6	14.4	4.0	4.2	6.1	1.6			3.7	-	-
3E-W	pa	16.2	14.8	11.4	12.1	14.2	39.	55	-	-	23.	26	21
	N	10	10	9	12	9	4	9			11	1	1
	Er	1.6	1.7	0.4	0.8	1.4	4.7	12.			2.7	-	-
4NS	pa	21.5	5.1	7.7	14.0	29	55.	32	-	-	28	33.6	5.8
	N	4	13	10	6	5	5	11			11	1	1
	Er	4.0	1.0	0.9	1.1	3.0	5.4	3.1			3.0	-	-
4E-W	pa	8.9	2.6	3.0	6.9	20.	27.	18.6	-	-	6.7	15.1	6.3
	N	5	10	7	5	8	9	9			11	1	1
	Er	2.8	0.9	0.3	0.3	2.3	2.6	2.3			7.2	-	-

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

pa = observed apparent resistivity in ohm-metres

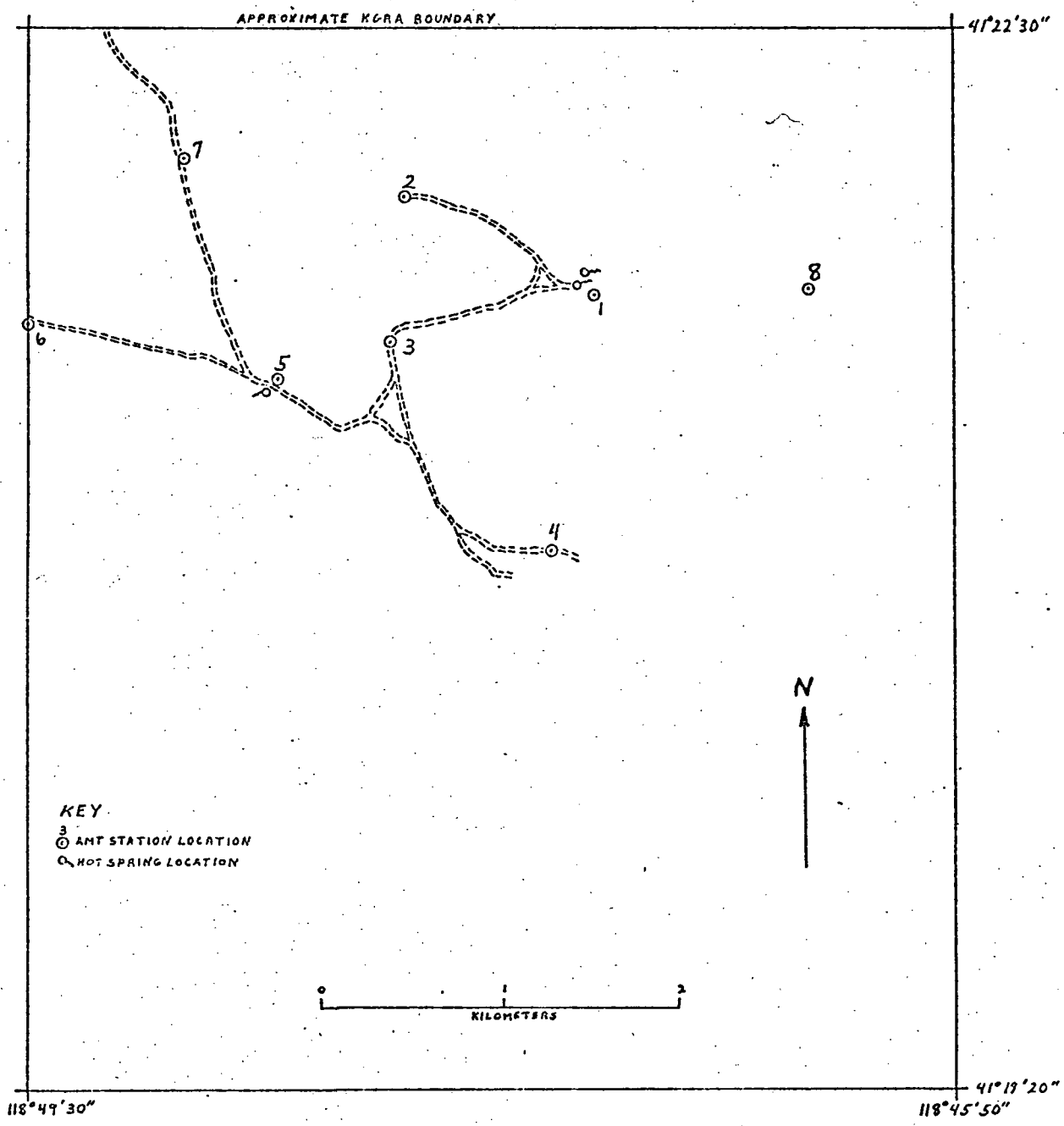
N = number of observations

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
5NS	pa	17.9	17.7	21.	20.	14.0	22	-	-	-	20.9	7.7	3.8
	N	9	10	9	9	5	12				12	1	1
	Er	2.4	2.4	3.0	2.5	0.7	4.5				2.2	-	-
5E-W	pa	11.1	5.9	5.3	5.1	3.3	2.1	-	-	-	20	17.0	6.0
	N	8	10	8	9	5	5				6	1	1
	Er	1.2	0.8	0.5	0.4	0.2	0.2				1.8	-	-
6NS	pa	12.3	15.0	21.	18.8	20.	25.	-	-	-	45.	19.5	47.
	N	9	15	9	9	9	9				5	1	1
	Er	1.0	1.6	2.2	0.8	2.0	1.9				3.1	-	-
6E-W	pa	10.4	16.8	14.8	19.7	20.7	29.	-	-	-	14.0	25.	62.
	N	7	11	7	9	8	12				6	1	1
	Er	2.9	1.7	1.1	0.8	1.2	2.9				0.8	-	-
7NS	pa	12.1	11.7	12.1	7.5	10.8	19.0	-	-	32	37	10.3	32
	N	8	16	8	9	7	15			3	19	1	1
	Er	0.7	1.4	1.0	0.8	0.7	2.2			1.9	4.0	-	-
7E-W	pa	4.9	4.15	4.1	1.3	7.0	8.2	3.3	-	2.2	4.8	14.9	27.
	N	7	14	12	6	6	8	12		3	9	1	1
	Er	0.7	0.6	0.4	0.2	0.4	0.4	0.4		0.3	0.2	-	-
8NS	pa	4.0	3.3	5.0	4.6	4.7	5.2	-	-	-	8.2	4.5	19.2
	N	10	15	7	13	5	3	0			4	1	1
	Er	0.4	0.4	0.5	0.1	0.2	0.3				0.4	-	-
8E-W	pa	4.1	5.5	3.0	3.1	5.0	10.7	3.7	-	-	3.9	8.7	23.
	N	9	11	9	7	7	14	9			4	1	1
	Er	0.5	1.1	0.3	0.3	0.6	1.5	0.4				-	-



PINTO HOT SPRINGS KGRA
 NEVADA
 AMT STATION LOCATION MAP