(200)

P290

no. 76-700-1

USGS-OFR-76-700 A

UNITED STATES (DEPARTMENT OF THE INTERIOR)

GEOLOGICAL SURVEY

[Reports - Open file Series]

Station location map and audio-magnetotelluric data log for Monte Neva Known Geothermal Resource Area, Nevada

TIM
cm
TW 479/L

By

Carl L. Long and Michael L. Batzle

Open-file Report No. 76-700A
1976

This report is preliminary and has not been edited or reviewed for conformity with U.S. Geological Survey standards and nomenclature.

NOTICE

PORTIONS OF THIS REPORT ARE ILLEGIBLE. It has been reproduced from the best available copy to permit the broadest possible availability.

MASTER

271351

DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED

fy

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency Thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

DISCLAIMER

Portions of this document may be illegible in electronic image products. Images are produced from the best available original document.

Neve, Nevada

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
115	pa	51.8	45.2	41.5	47.2	68.5	46.4	9.06	1.47	3.15	3.26	3.74	.20
	N	7	3	7	7	8	7	8	6	4	7	1	1
	Er	6.0	3.85	2.87	5.51	3.72	6.58	1.27	.45	.30	.25	-	-
1EW	pa	30.5	22.0	21.5	31.1	35.1	31.4	5.78	2.06	3.82	1.74	1.72	.11
	N	6	5	6	7	5	6	6	6	5	7	1	1
	Er	8.34	3.49	1.72	3.31	2.96	4.66	.72	.32	1.15	.11	-	-
2NS	pa	3187.	2230.	4037.	3157.	2371	734.	-	-	-	1.83	1.61	.04
	N	5	6	8	9	7	7				7	1	1
	Er	235.	331	325	211.	283.	563				.19	-	-
2FW	pa	2140.	2342.	2465.	1704	680	86.9	-	-	-	2.91	2.73	.26
	N	8	8	8	6	8	7				8	1	1
	Er	148	285	152	154.	63.8	6.93				.25	-	-
3NS	pa	514.	526.	472.	265.	307.	69.2	-	-	3.41	2.83	9.14	.29
	N	6	7	7	7	6	6			1	8	1	1
	Er	74.2	70.0	27.6	24.3	19.8	10.9			-	.647	-	-
3FW	pa	186.	108.	149.	113.	115.	118.	-	-	-	3.19	8.12	.67
	N	7	7	8	6	6	6				7	1	1
	Er	29.9	9.53	17.0	16.0	7.05	19.2				.27	-	-
4NS	pa	16.1	22.82	16.9	2.41	23.8	17.2	-	-	-	17.3	76.1	2.96
	N	8	8	9	6	9	7				5	1	1
	Er	3	4.51	2.57	1.03	1.33	1.62				2.76	-	-
4EW	pa	23.4	22.1	23.3	10.5	22.8	39.2	-	-	-	9.82	33.6	.22
	N	8	8	10	8	8	8				9	1	1
	Er	3.19	1.71	2.91	1.23	5.57	2.98				.63	-	-

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

Monte Neva

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
5NS	pa	6.84	8.09	5.68	10.7	16.4	11.5	1.22	-	-	22.4	97.8	.94
	N	8	3	7	6	6	6	5			7	1	1
	Er	.93	1.79	.48	1.81	3.75	4.32	.22			4.02	-	-
5EW	pa	34.0	18.5	12.7	24.2	21.9	35.7	4.22	-	-	12.8	41.3	2.73
	N	10	6	6	6	6	8	4			9	1	1
	Er	8.06	3.36	1.67	5.22	2.74	6.53	1.27			.77	-	-
6NS	pa	530.0	509.0	623.3	358.3	223	172	9.82	-	-	4.40	2.77	.97
	N	7	8	8	8	6	6	7			13	1	1
	Er	78.8	56.3	84.1	34.9	26.5	21.7	1.45			1.29	-	-
6EW	pa	722.1	668.5	213.0	555.8	425	297	9.53	-	-	5.67	7.05	.67
	N	9	9	9	8	9	8	5			11	1	1
	Er	123.8	101.2	26.4	80.4	31.1	17.9	1.85			2.38	-	-
7NS	pa	20.3	20.3	21.5	14.7	33.6	22.0	8.75	1.26	11.67	2.99	7.09	1.35
	N	9	8	7	6	7	8	10	7	3	7	1	1
	Er	3.45	3.43	.79	.99	1.12	1.32	.52	2.10	1.65	.32	-	-
7EW	pa	24.2	17.7	19.0	19.7	26.7	35.9	1.53	2.93	-	2.64	4.75	.24
	N	6	5	7	7	6	6	4	7		13	1	1
	Er	2.78	2.52	1.13	1.14	1.84	2.54	.59	.09		2.13	-	
8NS	pa	13.6	21.6	23.9	20.12	38.15	27.2	21.7	-	-	41.0	35.2	19.5
	N	8	9	8	5	10	9	5			10	1	1
	Er	1.76	4.19	4.46	2.05	8.51	4.68	3.16			.89	-	-
8EW	pa	28.1	43.29	29.62	36.54	44.97	71.5	36.9	-	-	43.3	80.4	160
	N	11	10	9	7	11	9	9			10	1	1
	Er	5.66	10.6	4.28	4.55	4.51	5.04	15.4			1.78	-	-

(3)

Hort Nova

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
7NS	pa	225.	204.	210.	102.	125	90.2	11.9	-	-	4.55	8.32	3.09
	N	8	6	7	6	9	8	4			10	1	1
	Er	16.0	10.7	15.4	5.61	3.8	1.72	2.91			.39	5.43	.11
7EW	pa	63.4	45.2	49.7	27.1	32.3	15.9	3.55	-	-	56.	1	1
	N	7	7	7	8	7	6	5			9	-	-
	Er	15.7	4.7	5.25	2.58	2.98	2.16	2.83			.08		
10NS	pa	21.9	17.31	27.8	27.9	51.3	45.5	4.66	1.9	-	10.3	21.3	.94
	N	9	9	9	8	5	6	7	7		9	1	1
	Er	3.76	2.61	3.81	1.73	3.00	1.85	0.64	.40		1.33	-	-
10EW	pa	16.42	19.21	56.2	16.4	24.33	33.7	5.00	2.4	-	1.41	15.7	.84
	N	6	8	6	6	10	6	7	2		9	1	1
	Er	2.98	4.44	3.85	0.74	1.30	2.55	0.90	1.03		.18	-	-
11NS	pa	10.4	17.1	7.92	5.20	42.2	15.74	3.51	-	-	2.11	8.83	.54
	N	8	4	7	6	7	6	6			7	1	1
	Er	1.30	1.72	1.17	.67	2.35	.92	.18			.24	-	-
11EW	pa	9.07	17.5	6.81	5.91	10.9	13.7	2.07	-	-	3.42	9.09	.67
	N	6	4	8	6	6	7	6			7	1	1
	Er	1.11	1.41	.48	.74	1.11	1.31	.25	-	-	.15	-	-
12NS	pa	55.0	34.46	34.21	31.58	50.1	61.9	7.27	-	-	14.5	15.8	7.08
	N	9	8	7	7	9	11	4			11	1	1
	Er	11.8	4.92	5.51	8.52	2.98	4.79	1.92			.79	-	-
9EW	pa	12.81	15.02	4.27	13.25	14.5	15.4	4.74	-	-	2.25	3.55	.39
	N	7	8	7	7	14	9	11			11	1	1
	Er	3.81	1.30	1.74	1.53	.73	.52	.34			.09	-	-

Monte Neva

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
13NS	pa	17.3	13.4	19.8	20.8	27.4	23.5	6.76	3.82	—	14.1	21.3	7.25
	N	7	8	9	6	8	16	13	6		11	1	1
	Er	1.75	1.58	2.06	3.97	—	2.89	0.44	2.28		0.73	—	—
13FW	pa	13.2	4.65	10.9	10.4	13.8	18.1	9.33	3.19	—	7.84	28.7	0.20
	N	6	6	7	6	7	9	8	5		12	1	1
	Er	1.49	.64	2.0	2.32	1.20	1.62	0.27	0.96		0.34	—	—
14NS	pa	9.64	17.8	17.1	13.77	27.9	19.5	6.75	—	—	5.74	10.2	2.55
	N	9	7	9	7	6	10	13			8	1	1
	Er	2.32	6.10	1.75	2.66	3.62	1.06	.47			.46	—	—
14FW	pa	11.94	6.53	6.63	16.0	13.9	16.6	1.74 ³	—	—	4.77	8.74	.58
	N	7	8	5	9	7	9	6			7	1	1
	Er	2.25	1.31	0.55	2.92	2.10	1.65	.19			.23	—	—
15NS	pa	8.34	14.3	12.3	12.7	22.9	19.4	—	—	—	38.5	36.1	191.
	N	6	7	6	8	7	7				9	1	
	Er	1.51	2.78	1.86	1.42	2.77	2.9				3.32	—	
15FW	pa	8.22	12.4	7.87	13.1	19.9	21.6	—	—	—	13.9	54.0	92.0
	N	8	7	8	6	7	8	—			7	1	1
	Er	1.47	2.44	1.05	1.24	1.65	2.7				1.17	—	—
16NS	pa	11.7	14.6	16.3	16.9	18.8	80.3 ³	—	—	—	50.2	21.6	44.6
	N	8	10	9	7	8	6				6	1	1
	Er	1.01	1.55	1.50	1.01	1.85	18.9				3.10	—	—
16FW	pa	13.8	11.9	16.7	16.1	22.6	32.8	—	—	—	14.6	33.5	116.
	N	10	5	7	8	8	7				9	1	1
	Er	1.74	2.14	2.88	2.18	1.86	6.87				1.78	—	—