

Department of the Interior
United States Geological Survey

Open File Report
No. 75-444

AUDIO-MAGNETOTELLURIC DATA LOG
FOR WABUSKA, NEVADA

By Carl L. Long and Robert H. Brigham

1975

This report is preliminary
and has not been edited
or reviewed for conformity
to Geological Survey standards.

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
1 _{NS}	pa	5.87	6.38	22.0	16.4	23.7	5.60	7.05	8.29	6.87	3.70	6.64	2.12
	N	11	10	11	10	11	10	4	3	2	11	1	1
	Er	.54	.79	1.08	.52	.79	1.05	.24	3.84	1.58	.23	-	-
1 _{EW}	pa	30.8	27.3	21.8	20.4	25.6	25.8	23.8	70.9	7.03	5.34	14.9	4.18
	N	11	11	11	10	11	10	6	1	2	8	1	1
	Er	2.7	2.12	2.45	1.33	1.40	2.87	4.96	-	3.62	.80	-	-
2 _{NS}	pa	1.08	.91	1.87	2.53	3.34	5.39	4.17	2.84	13.2	6.86	3.68	7.37
	N	6	13	9	10	9	10	10	11	4	9	5	1
	Er	.25	.05	.40	.27	.38	.54	.30	.48	1.68	.22	.05	-
2 _{EW}	pa	7.85	5.0	3.67	1.70	8.54	12.5	9.89	30.5	4.05	1.19	.48	.06
	N	8	10	10	10	11	6	9	8	6	10	7	1
	Er	.84	.62	.45	.05	.26	1.52	.47	1.95	.43	.06	.01	
3 _{NS}	pa	1.27	2.87	.92	2.65	3.84	6.79	3.31	5.11	51.3	10.9	6.23	27.1
	N	9	7	7	8	11	10	10	9	7	12	8	1
	Er	.22	1.25	.21	1.05	.61	2.30	.60	1.59	13.9	.75	.51	-
3 _{EW}	pa	12.7	22.3	4.99	4.30	13.1	19.7	33.5	71.0	40.3	15.1	17.4	10.4
	N	8	11	7	10	10	12	10	11	10	10	7	1
	Er	4.65	5.90	1.49	.61	2.26	4.33	14.7	14.2	14.6	1.14	1.10	-
4 _{NS}	pa	2.41	1.64	3.07	4.53	2.49	6.86	20.6	2.44	11.4	2.90	2.17	8.18
	N	9	5	10	11	11	11	10	8	11	8	6	1
	Er	.61	.23	.50	1.34	.21	1.41	3.02	.62	3.8	.22	.13	-
4 _{EW}	pa	5.91	7.85	3.47	5.37	6.72	16.7	14.8	20.9	9.46	5.35	2.82	4.90
	N	8	8	11	9	16	9	7	11	10	8	8	6
	Er	1.59	2.13	.35	1.31	.58	1.98	2.45	3.79	1.30	.66	.06	.05

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		7.5	10	14	27	76	285	685	1.2K	3.3K	6.7K	10.2K	18.6K
5NS	ρ_a	84.7	57.2	9.09	155.	37.6	31.6	235.	209.	259.	28.6	24.2	111.
	N	4	4	4	6	9	10	8	10	5	10	6	1
	Er	21.8	12.8	2.35	63.5	3.77	7.39	38.6	41.7	49.9	1.47	.34	-
5EW	ρ_a	115.	194.	26.0	35.7	73.3	133.	215.	207.	83.0	35.4	45.8	46.9
	N	4	7	5	8	10	10	6	10	10	10	8	1
	Er	25.0	48.5	5.85	9.79	5.46	27.0	73.0	45.3	9.07	2.74	4.50	-
6NS	ρ_a	3.57	3.72	5.01	5.06	10.8	26.3	113.	75.5	42.6	28.9	14.8	70.7
	N	7	8	10	9	11	10	9	9	8	10	7	1
	Er	.71	1.0	1.21	.65	.96	3.74	18.8	13.8	8.33	2.04	.29	-
6EW	ρ_a	27.9	5.5	14.5	5.64	73.2	35.2	256.	423.	16.3.	25.5	41.0	25.9
	N	10	9	10	10	11	9	10	7	9	13	9	1
	Er	3.61	.97	1.38	.94	11.3	7.46	49.6	73.3	46.9	2.49	2.94	-
7NS	ρ_a	29.1	25.3	7.28	18.4	23.0	24.0	57.5	66.2	18.7	17.5	13.1	57.7
	N	6	7	6	10	10	8	8	6	8	10	6	1
	Er	10.8	5.84	1.92	7.86	3.39	1.83	4.21	14.1	1.57	.85	.43	-
7EW	ρ_a	49.8	20.9	24.9	24.3	58.2	104.	183.	332.	76.4	24.7	36.7	37.5
	N	10	10	6	11	10	10	17	10	11	11	6	1
	Er	6.74	4.60	2.17	2.36	8.43	11.5	18.9	41.2	7.80	1.68	2.88	-
8NS	ρ_a	27.6	17.2	33.5	14.9	11.5	12.6	29.3	28.2	115.	20.6	11.8	146.
	N	8	6	5	10	9	7	7	11	8	11	6	1
	Er	8.89	3.60	23.4	2.53	2.35	3.07	4.96	3.54	28.9	1.85	.04	-
8EW	ρ_a	103.	42.5	36.8	10.1	77.8	35.6	42.2	282.	104.	25.9	40.8	31.8
	N	6	10	7	8	4	12	12	13	8	10	6	1
	Er	18.7	9.98	8.93	.95	31.3	7.13	6.82	55.1	28.5	1.91	1.95	-

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		7.5	10	14	27	76	285	685	1.2K	3.3K	6.7K	10.2K	13.6K
9 _{NS}	ρ _a	5.46	4.51	7.58	8.55	21.8	10.8	30.9	13.5	18.6	2.32	1.38	.55
	N	12	10	10	9	6	9	9	8	8	10	4	1
	Er	.57	.54	1.37	1.03	3.78	1.43	2.36	2.57	3.46	.40	.29	-
9 _{EW}	ρ _a	22.1	18.6	14.16	17.50	33.7	44.0	32.0	92.6	24.1	4.39	1.94	1.98
	N	7	11	10	10	11	11	10	9	7	11	5	4
	Er	1.69	2.39	1.55	1.68	2.97	2.89	2.79	26.6	3.46	.23	.05	.15
10 _{NS}	ρ _a	7.79	5.37	4.48	9.55	11.1	8.86	19.0	28.6	157.	86.5	12.9	15.9
	N	8	12	8	10	10	11	13	13	8	8	5	1
	Er	1.21	.72	.89	1.70	3.83	1.03	1.84	2.70	22.9	8.61	1.84	-
10 _{EW}	ρ _a	132.	77.8	54.7	103.	205	101.	178.	320.	202.	38.5	44.9	8.24
	N	3	9	7	10	7	11	11	11	9	8	8	1
	Er	18.2	15.9	15.3	18.5	28.6	8.52	20.2	38.1	21.3	5.14	3.05	-
11 _{NS}	ρ _a	18.8	5.60	6.54	18.0	7.63	15.7	77.4	32.0	54.7	18.5	16.6	34.0
	N	9	5	7	12	8	10	8	8	8	10	5	1
	Er	3.62	1.24	.74	1.98	1.58	3.22	130.	4.82	7.35	2.21	2.19	-
11 _{EW}	ρ _a	30.5	48.8	34.1	24.0	23.9	71.3	113.	334.	115.	33.1	36.3	40.6
	N	7	9	9	12	10	12	10	13	8	10	5	1
	Er	4.23	9.60	5.93	4.25	1.46	11.2	16.4	63.7	27.4	2.97	3.52	-
12 _{NS}	ρ _a	1.87	1.57	1.62	1.29	1.43	1.46	1.92	-	.25	.12	.13	.04
	N	13	10	14	10	10	8	6	-	4	10	1	1
	Er	.17	.13	.08	.05	.02	.05	.10	-	.04	.01	-	-
12 _{EW}	ρ _a	12.0	7.08	6.86	4.52	6.63	11.5	27.4	-	13.1	10.6	6.77	2.18
	N	11	13	10	10	10	8	3	-	4	7	1	1
	Er	1.61	.56	.77	.54	.48	.99	8.04	-	.63	.36	-	-

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		7.5	10	14	27	76	285	685	1.2K	3.3K	6.7K	10.2K	18.6K
13 _{NS}	pa	16.6	12.9	12.5	13.0	16.1	17.2	11.0	-	1.43	.61	.44	.47
	N	12	10	10	10	12	8	2	-	6	10	1	1
	Er	1.20	1.15	.55	1.07	.49	1.02	.87	-	.10	.03	-	-
13 _{EW}	pa	88.4	78.3	72.1	66.1	93.2	97.9	108	137	7.86	1.90	1.12	.013
	N	11	10	9	10	10	3	4	2	4	11	1	1
	Er	8.52	5.80	5.04	2.05	3.88	9.20	31.3	3.70	.38	.22	-	-
14 _{NS}	pa	15.9	11.5	8.56	10.8	23.6	12.0	41.3	15.3	16.7	11.7	9.22	3.71
	N	10	10	10	13	10	9	8	11	7	8	1	1
	Er	.99	.54	.88	.66	5.86	1.24	5.38	3.16	1.54	1.29	-	-
14 _{EW}	pa	56.1	37.0	48.9	49.3	74.4	97.6	85.7	144	49.3	25.8	24.6	3.03
	N	10	13	11	10	10	11	11	9	7	10	1	1
	Er	7.06	2.98	5.41	3.35	9.28	10.1	18.5	31.9	12.2	1.48	-	-
15 _{NS}	pa	28.1	22.8	14.7	10.9	14.2	20.0	8.84	2.68	7.64	3.58	1.88	2.56
	N	11	12	12	12	11	11	10	8	10	10	1	1
	Er	2.4	1.73	.60	1.81	.96	1.67	.79	.18	.47	.17	-	-
15 _{EW}	pa	74.9	40.9	30.7	33.8	31.9	19.5	10.4	51.4	21.3	3.57	6.42	11.8
	N	10	11	10	10	10	11	10	10	12	10	1	1
	Er	8.65	6.45	2.18	4.01	1.70	2.71	1.80	16.3	2.98	.26	-	-
16 _{NS}	pa	6.02	3.64	5.58	4.98	5.96	8.25	-	3.16	13.7	4.57	1.63	7.98
	N	13	10	11	14	10	4	-	4	8	10	7	1
	Er	.28	.32	.77	.36	.30	2.23	-	.65	1.85	.24	.07	-
16 _{EW}	pa	12.6	6.70	5.32	5.64	9.02	15.52	109	14.8	7.14	7.64	2.89	2.06
	N	9	10	10	11	11	10	13	10	9	13	4	1
	Er	1.38	.56	.40	.21	.48	2.0	15.3	4.65	.75	.17	.43	-

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		7.5	10	14	27	76	285	685	1.2K	3.3K	6.7K	10.2K	18.6K
17NS	pa	0.88	1.39	1.49	1.95	2.92	2.25	-	-	-	3.79	1.12	8.64
	N	10	12	10	11	10	11	-	-	-	11	1	1
	Er	0.09	0.13	0.13	0.20	0.32	0.17	-	-	-	0.27	-	-
17EW	pa	6.86	5.05	5.43	7.63	9.86	21.8	-	-	-	3.24	6.16	3.09
	N	12	11	12	6	11	10	-	-	-	11	1	1
	Er	0.50	0.27	0.32	0.52	0.13	5.12	-	-	-	0.14	-	-
18NS	pa	10.3	7.62	18.3	-	-	-	-	-	-	27.7	7.58	52.5
	N	13	11	8	-	-	-	-	-	-	12	6	1
	Er	1.6	0.89	2.39	-	-	-	-	-	-	1.87	0.11	-
18EW	pa	8.58	6.20	4.35	9.40	-	-	-	-	-	16.7	20.2	36.4
	N	12	10	11	6	-	-	-	-	-	10	8	1
	Er	0.87	0.39	0.44	0.89	-	-	-	-	-	1.23	0.30	-
19NS	pa	2.04	3.49	3.03	4.45	-	-	-	-	-	37.9	15.9	48.8
	N	10	12	10	5	-	-	-	-	-	10	1	1
	Er	0.14	0.61	0.33	0.32	-	-	-	-	-	2.06	-	-
19EW	pa	6.29	7.38	4.87	12.5	-	-	-	-	-	16.4	30.4	7.48
	N	8	10	10	8	-	-	-	-	-	11	1	1
	Er	0.99	1.22	0.29	3.28	-	-	-	-	-	0.81	-	-
20NS	pa	8.07	5.25	5.75	7.47	20.1	18.2	130.	73.1	290	68.4	21.4	145.
	N	9	9	10	9	11	8	5	6	5	11	6	1
	Er	1.44	1.06	0.76	0.58	1.73	2.02	19.7	8.69	42.6	5.09	0.58	-
20EW	pa	26.3	21.5	12.6	16.9	60.4	68.5	345.	1190	323.	28.2	49.5	13.6
	N	9	9	13	12	10	11	10	9	5	11	4	1
	Er	2.77	3.03	1.32	1.12	4.79	11.7	57.7	377.	100.	1.59	0.90	-

