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GEOLOGICAL SURVEY.

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

com
Twain

By

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This report is preliminary and has not been
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Explanation:

Q Station location
G and number

RUBY VALLEY KGRA
Nevada

AUDIO-MAGNETOTELLURIC
STATION LOCATION MAP

FIGURE 1

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

①

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
1NS	pa	261.	258.	222.	148.	181.	297	—	12.6	16.0	9.17	4.61	4.05
	N	8	6	6	6	8	8	—	2	4	11	1	1
	Er	24.5	44.6	20.9	22.1	30.1	51.8	—	.68	3.12	0.46	—	—
1EW	pa	453.	350	448.1	241	190	213	31.3	21.2	4.33	5.78	6.94	0.57
	N	7	9	7	8	8	7	8	3	5	8	1	1
	Er	25.1	15.1	26.3	5.63	6.74	16.8	4.37	0.91	0.84	0.44	—	—
2NS	pa	15.4	23.9	14.0	14.2	34.1	18.0	—	—	—	2.19	6.51	0.13
	N	8	9	7	7	5	5	—	—	—	6	1	1
	Er	1.77	3.97	1.70	2.39	2.76	0.76	—	—	—	0.28	—	—
2EW	pa	11.8	10.7	6.89	9.36	14.7	18.2	—	—	—	1.88	2.18	0.09
	N	8	9	5	6	5	13	—	—	—	7	1	1
	Er	1.54	1.62	0.80	0.78	0.87	3.33	—	—	—	.07	—	—
3NS	pa	8.46	6.34	15.2	12.3	20.6	17.53	1.68	0.58	0.61	0.55	0.60	0.06
	N	8	7	6	6	10	6	8	12	5	11	1	1
	Er	0.86	1.48	0.91	0.87	0.87	0.80	0.17	0.01	0.02	0.04	—	—
3EW	pa	8.78	4.88	6.50	8.65	19.8	20.3	3.28	2.01	0.98	1.50	0.95	0.11
	N	11	10	11	9	9	7	7	9	7	7	1	1
	Er	1.39	0.58	0.50	0.28	0.42	1.10	0.22	0.08	0.14	0.33	—	—
4NS	pa	17.6	24.8	37.3	19.0	28.6	39.0	7.03	2.15	3.25	2.34	2.58	0.30
	N	9	7	8	9	4	6	6	6	8	8	1	1
	Er	3.15	2.71	5.76	1.66	1.05	2.28	0.17	0.16	0.41	0.25	—	—
4EW	pa	15.6	10.2	3.18	16.4	19.5	26.2	1.82	1.02	2.34	1.91	2.08	0.15
	N	10	6	6	5	5	7	6	5	8	10	1	1
	Er	1.74	1.24	0.23	0.44	0.43	0.87	0.14	0.05	0.72	0.11	—	—

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

(2)

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	40.5	69.2	61.1	105.1	79.7	229.1	95.2	139.7	644.6	108.3	70.62	18.6
	N	6	6	10	8	8	8	8	9	8	9	8	2
	Er	4.49	10.7	11.4	18.1	12.9	57.0	15.3	38.1	78.3	7.45	2.87	0.67
5EW	pa	31.7	42.3	53.7	33.7	58.5	74.3	89.2	98.7	78.5	42.9	20.7	18.8
	N	8	10	8	9	8	8	8	9	8	8	8	2
	Er	4.69	9.02	6.44	5.98	9.05	10.9	9.1	16.3	14.7	2.29	2.15	0.58
6NS	pa	9.43	50.8	55.5	61.4	116.8	67.8	19.1	15.1	18.9	7.7	9.5	3.55
	N	6	8	8	8	8	9	8	5	11	11	5	1
	Er	17.4	10.8	15.6	17.6	36.9	5.1	0.76	0.55	2.9	0.65	0.72	-
6EW	pa	80.1	62.6	18.9	57.1	40.0	59.	19.6	32.3	9.08	4.5	5.28	0.68
	N	6	9	8	8	8	9	11	10	12	13	5	1
	Er	5.3	7.8	5.1	15.1	3.6	5.9	1.46	2.4	1.15	0.16	0.49	-
7NS	pa	1346	2526	1131	3464	2071	3302	688	34.0	288.	101.	62.	59.4
	N	8	9	8	8	8	8	8	8	7	7	5	1
	Er	346	845	151	711	375	533	103	45.5	21.8	6.84	3.83	-
7EW	pa	2486	3214	2532	2043	1467	747	99	37.5	8.78	5.41	2.76	0.55
	N	8	6	7	7	8	8	8	7	7	9	5	1
	Er	99.0	452	232	117	254	83.9	5.04	3.15	0.33	0.20	0.10	-
8NS	pa	3.84	3.16	2.97	2.57	4.51	2.94	0.7	-	0.23	0.15	0.17	0.02
	N	8	7	6	7	8	7	8	-	6	8	6	1
	Er	0.2	0.27	0.29	0.28	0.30	0.08	0.02	-	0.01	0.01	0.01	-
8EW	pa	13.8	13.2	11.3	5.11	3.27	3.46	2.51	-	1.60	1.82	2.13	0.40
	N	9	7	7	6	7	8	7	-	6	8	1	1
	Er	1.2	0.97	1.05	0.44	0.15	0.27	0.20	-	0.23	0.09	-	-