

GEOCHEMICAL SOIL SURVEY, BALTAZOR THERMAL AREA, NEVADA.

One hundred and seventy three (173) soil samples marked consecutively from 701 through 873 were taken from the southern Pueblo Mountains-northern Continental Lake area of Humboldt County, Nevada (Baltazor Thermal Area). These samples were taken during the period February 7, 1980 through February 18, 1980 by Paul S. Truex of Salt Lake City, Utah, with the help of two locally acquired field assistants.

The sample locations lie in sections 1-3, 10-15, 22-24 of Township 46 North, Range 28 East; and sections 13,24,25 and 36 of Township 47 North, Range 29 East (a partial twp.). These sections can be seen on USGS 15 minute topographic map, Denio quadrangle, Nevada-Oregon (1966 edition).

Soil samples were taken on a pre-set grid of 1000 foot centers with 2000 foot centers in the outlying border areas (see map). Approximately 1-2 pounds of soil was taken and placed in 6 mil plastic bags with ties. Samples were taken at approximately 18 inches below the surface except in places where outcrop was near surface or the ground was frozen solid (north facing slopes).

Sample sites were located with the use of maps, Brunton compass, and 300 foot tape. Some sites were located by topographic features alone because the magnetics in the volcanics caused erratic deflections in the compass. All sites were flagged and numbered.

The "day to day" taking of samples was dictated by weather access, and terrain. Of the 179 possible sample sites, 173 were sampled. Of the 6 sites not sampled, 4 were under water in the Continental Lake, and the other 2 were in dangerously steep terrain and not taken on the rained out last day of sampling.

All soil sample were taken to Rocky Mountain Geochemical Corp., Salt Lake City, Utah, on February 20, 1980 for analysis.

Paul S. Truex



WEST JORDAN OFFICE

ROCKY MOUNTAIN GEOCHEMICAL CORP.

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Certificate of Analysis

Page 1 of 5

Date: March 7, 1980
Client: Gordon Blair
2284 South 8th East
Salt Lake City, Utah 84106

RMGC Numbers:
Local Job No. 80-04-45-SI
Foreign Job No.:
Invoice No. M 100775

Client Order No.: none
Report On: 173 Soil Samples
Submitted by: Gordon Blair
Date Received: 2/20/80
Analysis: Arsenic and Mercury
Analytical Methods: Arsenic determined colormetrically. Mercury determined by atomic absorption.
Remarks:
cc: enc.
file (2)
GJC/lw

All values are reported in parts per million unless specified otherwise. A minus sign (—) is to be read "less than" and a plus sign (+) "greater than." Values in parenthesis are estimates. This analytical report is the confidential property of the above mentioned client and for the protection of this client and ourselves we reserve the right to forbid publication or reproduction of this report or any part thereof without written permission.
ND = None Detected 1 ppm = 0.0001% 1 Troy oz./ton = 34.286 ppm 1 ppm = 0.0292 Troy oz./ton

Client Gordon BlairDate 3/7/80RMGC Job No. 80-04-45-SLPage 2 of 5

<u>Sample No.</u>	<u>ppm Arsenic</u>	<u>ppb Mercury</u>	<u>Sample No.</u>	<u>ppm Arsenic</u>	<u>ppb Mercury</u>
138701	25	1.4 ppm	138726	5	180
702	10	1.4 ppm	727	5	205
703	5	490	728	5	235
704	10	380	729	5	245
705	5	470	730	5	675
706	5	340	731	5	510
707	-5	340	732	5	570
708	5	465	733	15	445
709	5	315	734	5	245
710	10	715	735	5	205
711	5	430	736	10	225
712	5	740	737	10	340
713	5	635	738	10	300
714	-5	340	739	15	530
715	-5	185	740	40	620
716	5	470	741	5	185
717	5	715	742	10	325
718	5	430	743	15	405
719	5	400	744	5	285
720	5	300	745	10	275
721	5	490	746	10	340
722	25	570	747	15	285
723	10	445	748	10	405
724	20	390	749	15	570
138725	15	310	138750	10	285

**ROCKY MOUNTAIN GEOCHEMICAL CORP.**

SALT LAKE CITY UTAH

RENO NEVADA

TUCSON ARIZONA

<u>Sample No.</u>	<u>ppm Arsenic</u>	<u>ppb Mercury</u>	<u>Sample No.</u>	<u>ppm Arsenic</u>	<u>ppb Mercury</u>
138751	10	570	138776	15	490
752	5	310	777	10	570
753	5	405	778	5	830
754	5	285	779	5	790
755	5	325	780	10	895
756	5	250	781	5	595
757	5	235	782	5	700
758	10	635	783	5	585
759	5	490	784	-5	575
760	5	770	785	10	350
761	5	765	786	10	520
762	10	860	787	10	445
763	15	235	788	5	400
764	5	270	789	5	365
765	5	390	790	10	185
766	5	275	791	5	285
767	10	310	792	5	445
768	10	350	793	5	410
769	10	365	794	5	570
770	5	400	795	-5	275
771	5	285	796	-5	205
772	5	340	797	-5	200
773	5	445	798	-5	545
774	5	560	799	-5	205
138775	5	380	138800	-5	180

**ROCKY MOUNTAIN GEOCHEMICAL CORP.**

SALT LAKE CITY, UTAH

RENO, NEVADA

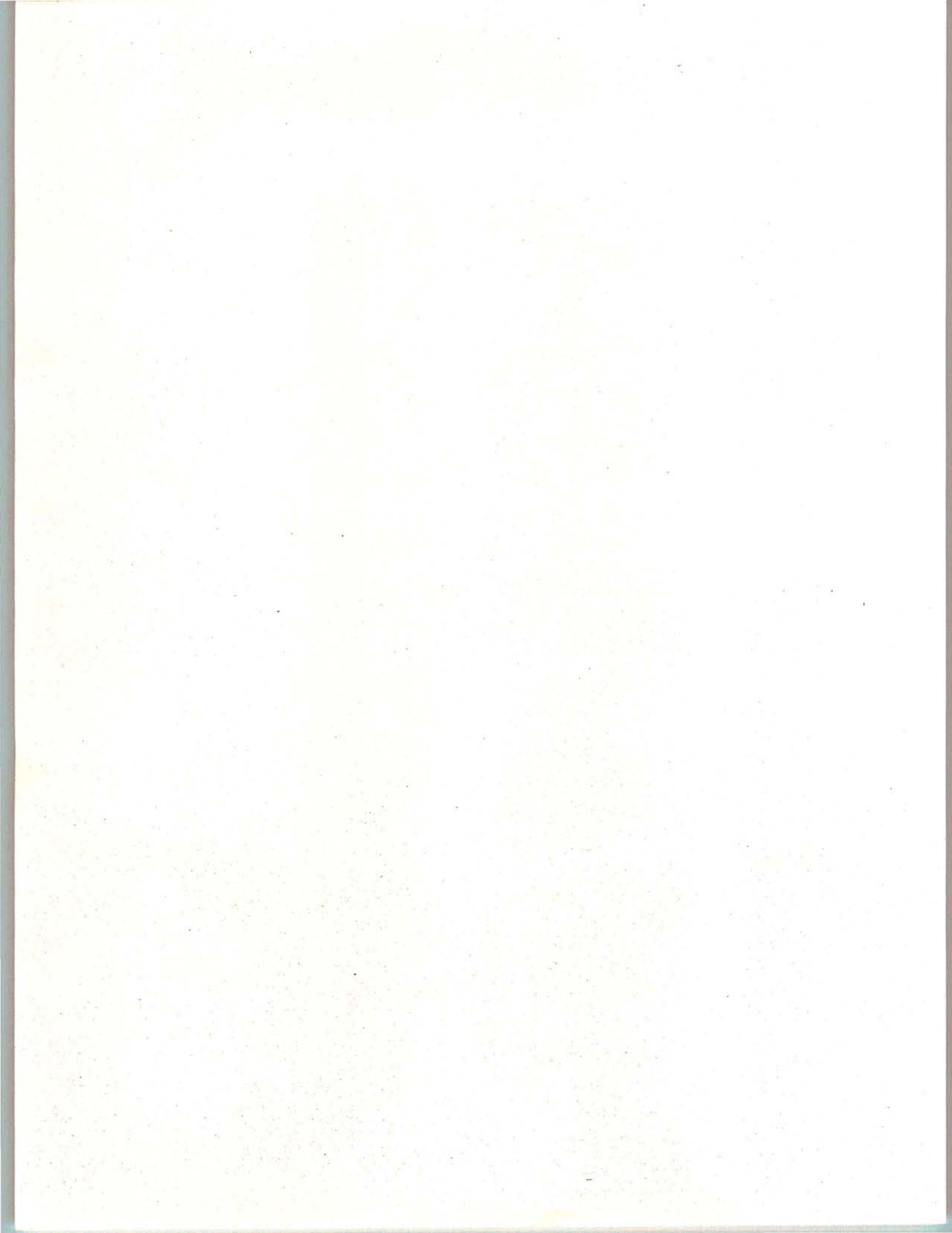
TUCSON, ARIZONA

<u>Sample No.</u>	<u>ppm Arsenic</u>	<u>ppb Mercury</u>	<u>Sample No.</u>	<u>ppm Arsenic</u>	<u>ppb Mercury</u>
138801	5	180	138826	5	325
802	-5	175	827	-5	220
803	-5	285	828	5	195
804	-5	410	829	5	195
805	-5	570	830	5	1.8 ppm
806	-5	275	831	5	275
807	5	570	832	-5	310
808	20	970	833	-5	490
809	-5	260	834	5	1.6 ppm
810	-5	265	835	-5	285
811	-5	190	836	-5	270
812	-5	185	837	-5	325
813	5	235	838	-5	345
814	-5	180	839	15	260
815	5	185	840	5	410
816	-5	190	841	-5	520
817	-5	165	842	5	2.8 ppm
818	-5	180	843	10	1.1 ppm
819	-5	650	844	15	660
820	-5	190	845	5	365
821	-5	185	846	10	345
822	-5	195	847	5	285
823	-5	230	848	20	270
824	-5	180	849	5	230
138825	-5	235	138850	5	345



<u>Sample No.</u>	<u>ppm Arsenic</u>	<u>ppb Mercury</u>
138851	5	300
852	5	290
853	10	295
854	10	245
855	5	220
856	15	285
857	5	365
858	5	375
859	5	285
860	5	245
861	15	255
862	5	230
863	5	240
864	10	345
865	5	240
866	5	260
867	5	245
868	5	240
869	5	245
870	5	260
871	5	250
872	25	250
138873	5	255





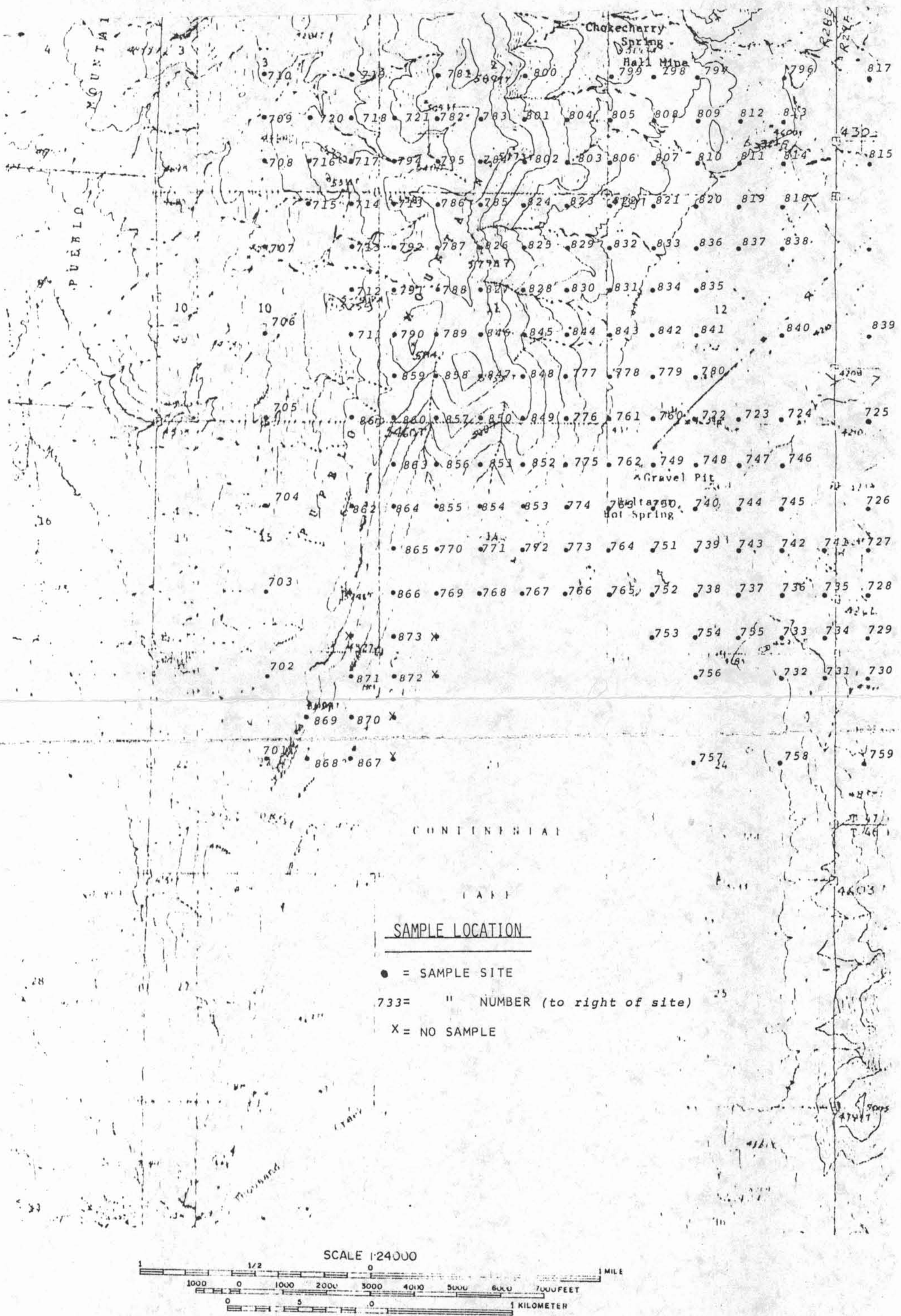


Figure 1: Geochemical Soil Survey, Baltazor Thermal Area, Humboldt County, Nevada