COMINCO LTD

EXPLORATION WESTERN CANADA

ASSESSMENT REPORT

MAYO PROPERTY

LATITUDE 49° 32' N
LONGITUDE 116° 23' W

NTS 82F/9 W

OWNER: COMINCO LTD
OPERATOR: COMINCO LTD

Work performed July 1 - 12, 1997
AUTHOR: P.W. RANSOM

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INTRODUCTION

The Mayo claims are 31 km southwest of Kimberley, south of the bend where Meacham Creek flow changes from easterly to north-easterly (Fig. 1). The claims were staked to cover em anomalies obtained in the BCGS East Kootenay Airborne Geophysical survey of this portion of the Purcell mountains. A claim block surrounding the Ailsa Lake pluton less than a kilometre west of the Mayo claims once covered part of the same area. Rocks of upper Aldridge Fm. strata and minor amounts of adjacent middle Aldridge and Creston Fm. strata underlie the claim block, based on mapping by G.B. Leech (1957, Fig. 2). The claim block can be accessed reasonably by foot from roads. Terrrain is rugged and steep with v-shaped valleys and cirques at high elevations. Mid to low elevations are mostly well forested.

OBJECTIVES

The objective of exploring these claims is to locate a Sullivan type Sedex Zn-Pb mineral deposit. The anomalies obtained in the airborne survey may be an indication of such a deposit, or they may caused by distal mineralization related in some way to a deposit. The first step taken to explore this property was to obtain geochemical coverage of portions of the claims where the geophysical anomalies are present.

THE WORK

One silt and 33 soil samples were collected along contour and base of slope lines from the Mayo claims. Samples of soil, preferably B soil horizon, were dug by a narrow spade, placed in kraft paper bags, dried and shipped to Cominco's Exploration Research Lab for analysis. Analysis was done by ICP with which data on 27 elements was obtained. The results are listed in the appendix. Sample locations are shown in Fig. 3. Plots of Pb and Zn are shown in Figures 4 and 5 respectively.

RESULTS

A number of scattered samples are elevated to anomalous in Pb and Zn. In addition these samples tend to be relatively high in Mn and some are high in As. The one silt taken was anomalous in Zn (810 ppm) as well in Pb, As, Cd, Mo, W and Mn.

CONCLUSIONS

The Mayo claims cover upper Aldridge strata which are normally pyrrhotitic and very rust weathering. In other areas background base metal values tend to be higher from soils over upper Aldridge than from over middle Aldridge strata. The levels of Pb and Zn from the soils on the Mayo property are not significantly high. The one silt, which is quite high in Zn and several other elements, is in a creek that drains upper Aldridge and lower Creston strata and a small pluton that has been previously explored for Mo. It is assumed that mineralization in the Ailsa pluton contributed to the anomalous values of the silt sample.

COST SUMMARY

Labour	2 field, 2 office days @ $130	520
Truck	2 days@ $60	120
Analyses	34 samples @ $8.50	289
Supplies		50
Shipping		30
TOTAL		1029

Signed: _____
Paul W. Ransom, Project Geologist

Endorsed for release by Cominco Ltd: _____
D.W. Moore, Manager, Exploration,
Western Canada

COMINCO LTD

EXPLORATION WESTERN CANADA

AUTHOR'S QUALIFICATIONS

As author of this report, I, P.W. Ransom, certify that:

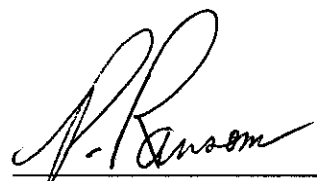
I am a geologist active in minerals exploration.

I am a graduate of McGill University with a degree of Bachelor of Science.

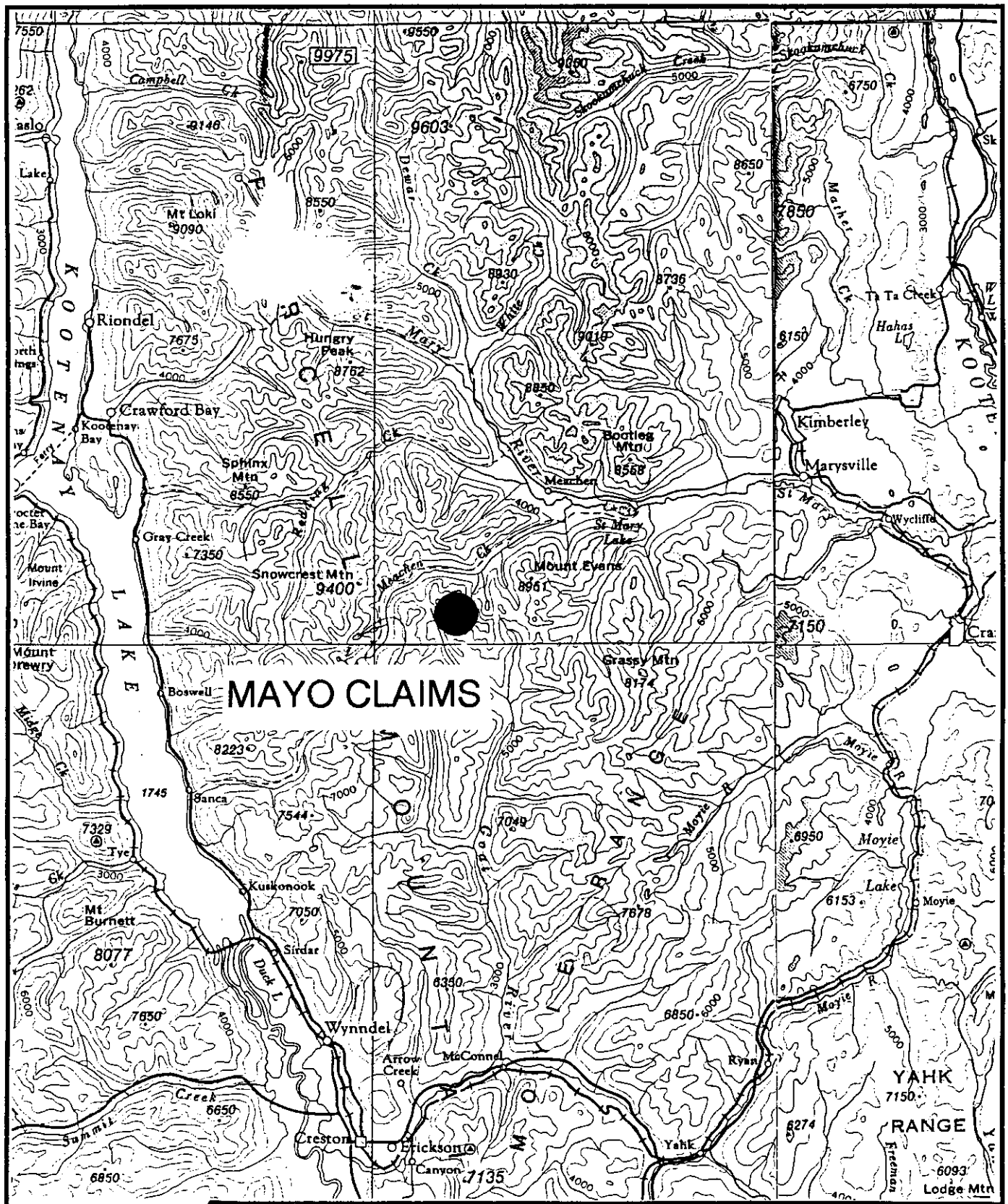
I have been continuously engaged in mining and exploration since 1966.

I am a member of the Geological Association of Canada and of the Canadian Institute of Mining and Metallurgy.

I supervised Cominco Ltd's exploration on the Mayo property in 1997.



P.W. Ransom
Project Geologist



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LOCATION MAP

MAYO CLAIMS

Drawn by:	Scale: 1:500,000	Date: SEPT 30/97	Plate: FIG. 1

BCIL - 3271 - C.L.

LEGEND

CENOZOIC

QUATERNARY
PLEISTOCENE AND RECENT

12 — Till, gravel, sand, silt, alluvium

MESOZOIC OR(?) CENOZOIC

11 — Granodiorite, quartz monzonite, pegmatite

PALAEOZOIC

CAMBRIAN
LOWER CAMBRIAN

10 — EAGER FORMATION: dark argillite, grey argillite; grey limy argillite, brown weathering sandy limestone

9 — CRANBROOK FORMATION: siliceous quartzite, grit, and conglomerate

PROTEROZOIC

PURCELL OR (?) LATER

8 — MOYIE INTRUSIONS: meta-diorite and meta-quartz diorite

PURCELL

7 — DUTCH CREEK FORMATION: laminated black argillite, green argillite; quartzite, dolomite

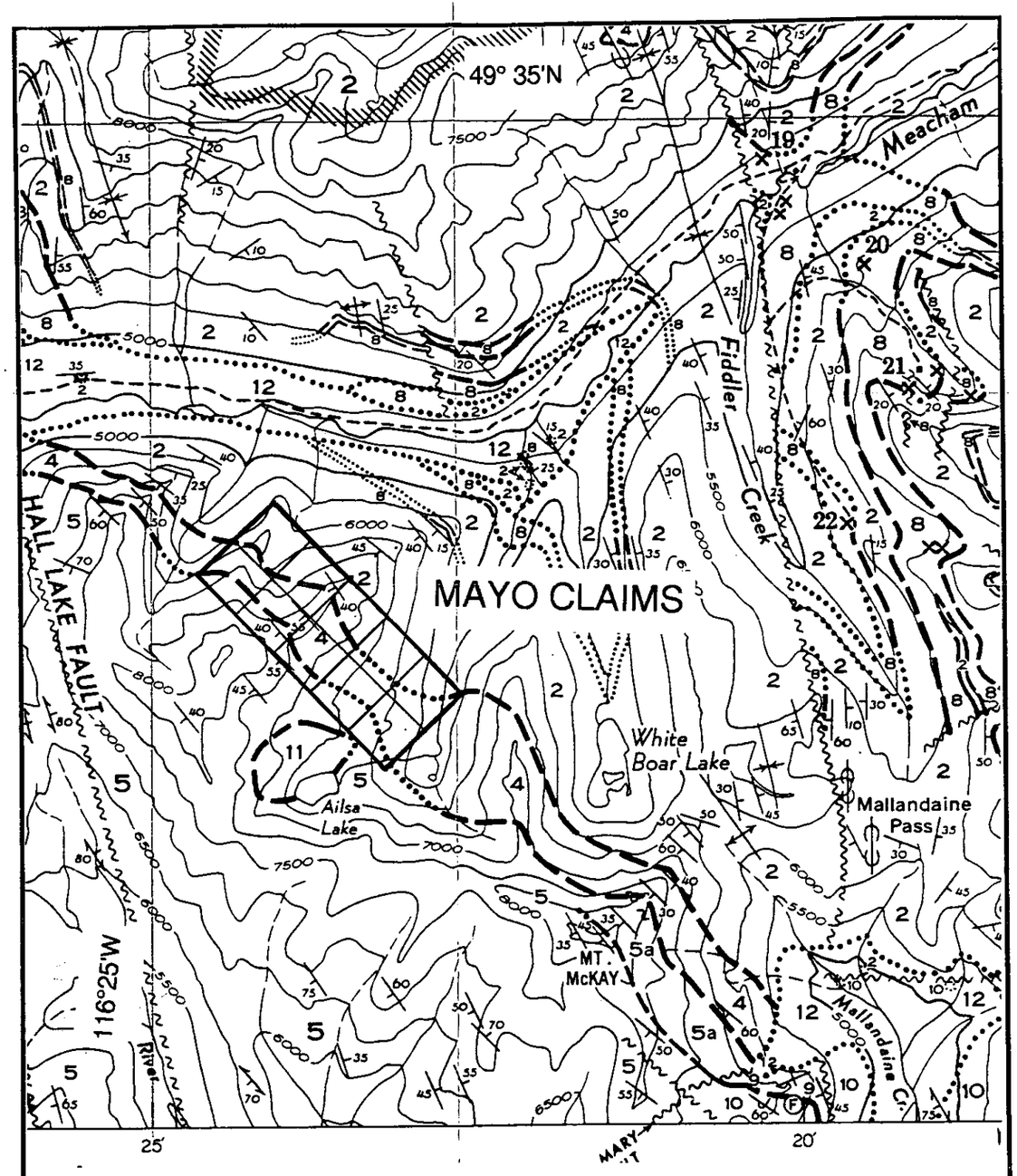
6 — KITCHENER-SIYEH FORMATION: varicoloured argillites and dolomitic argillites, mostly buff and brown weathering; buff and brown weathering dolomite, commonly sandy

5 — CRESTON FORMATION: green and grey weathering green, grey, and purplish argillaceous quartzite, quartzite and argillite; 5a, grey weathering grey argillite and silty argillite, mud-cracked dark argillite

1 2 4 — ALDRIDGE FORMATION (1-4)
1. Lower Division: rusty weathering grey quartzite, siltstone, and argillite; grey weathering massive quartzite; metamorphosed equivalents
2. Middle Division: grey weathering massive grey quartzite and siltstone with argillite partings; rusty weathering quartzite, siltstone, and argillite
4. Upper Division: rusty weathering laminated argillite and siltstone; quartzite

3 — Middle and Lower Divisions undivided

Limit of area in which distribution of Moyie intrusions is uncertain . . . . . U



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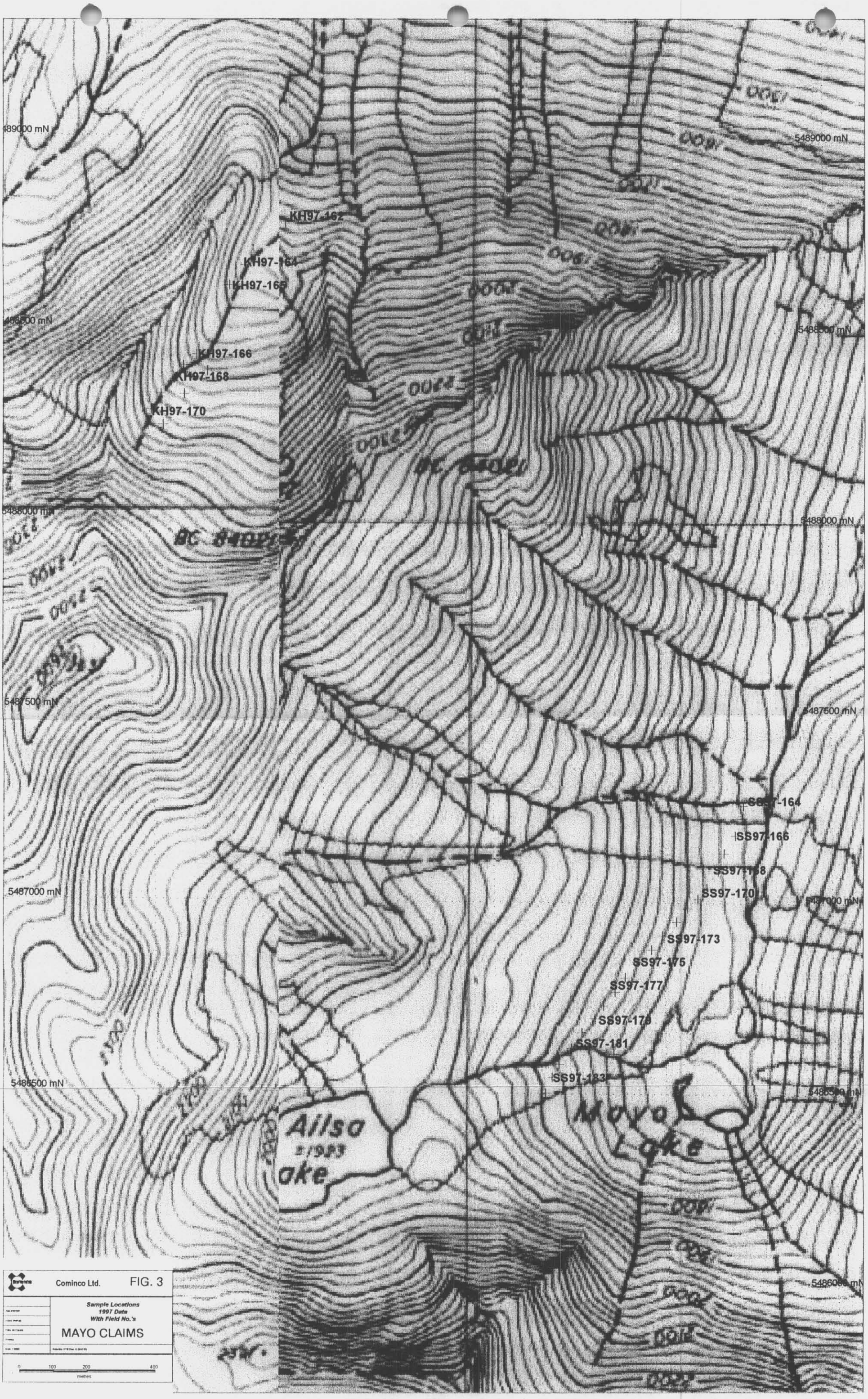
MAYO PROPERTY

GEOLOGY AND CLAIM OUTLINE

Drawn by:	Scale: 1:50,000	Date: Sept 30/97	Plate: Fig. 2

BCIL - 3271 - C.L.


5489000 mN
5488500 mN
5488000 mN
5487500 mN
5487000 mN
5486500 mN
KH97-162
KH97-164
KH97-165
KH97-166
KH97-168
KH97-170
SS97-164
SS97-165
SS97-168
SS97-170
SS97-173
SS97-175
SS97-177
SS97-179
SS97-181
SS97-183
Mayo Lake
Cominco Ltd.
FIG. 3
Sample Locations
1997 Data
With Field No.'s
MAYO CLAIMS
0
100
200
400
metres

5489000 mN

5488500 mN

5488000 mN

5487500 mN

5487000 mN

5486500 mN

5489000 mN

5488500 mN

5488000 mN

5487500 mN

5487000 mN

5486500 mN

Allso
Lake

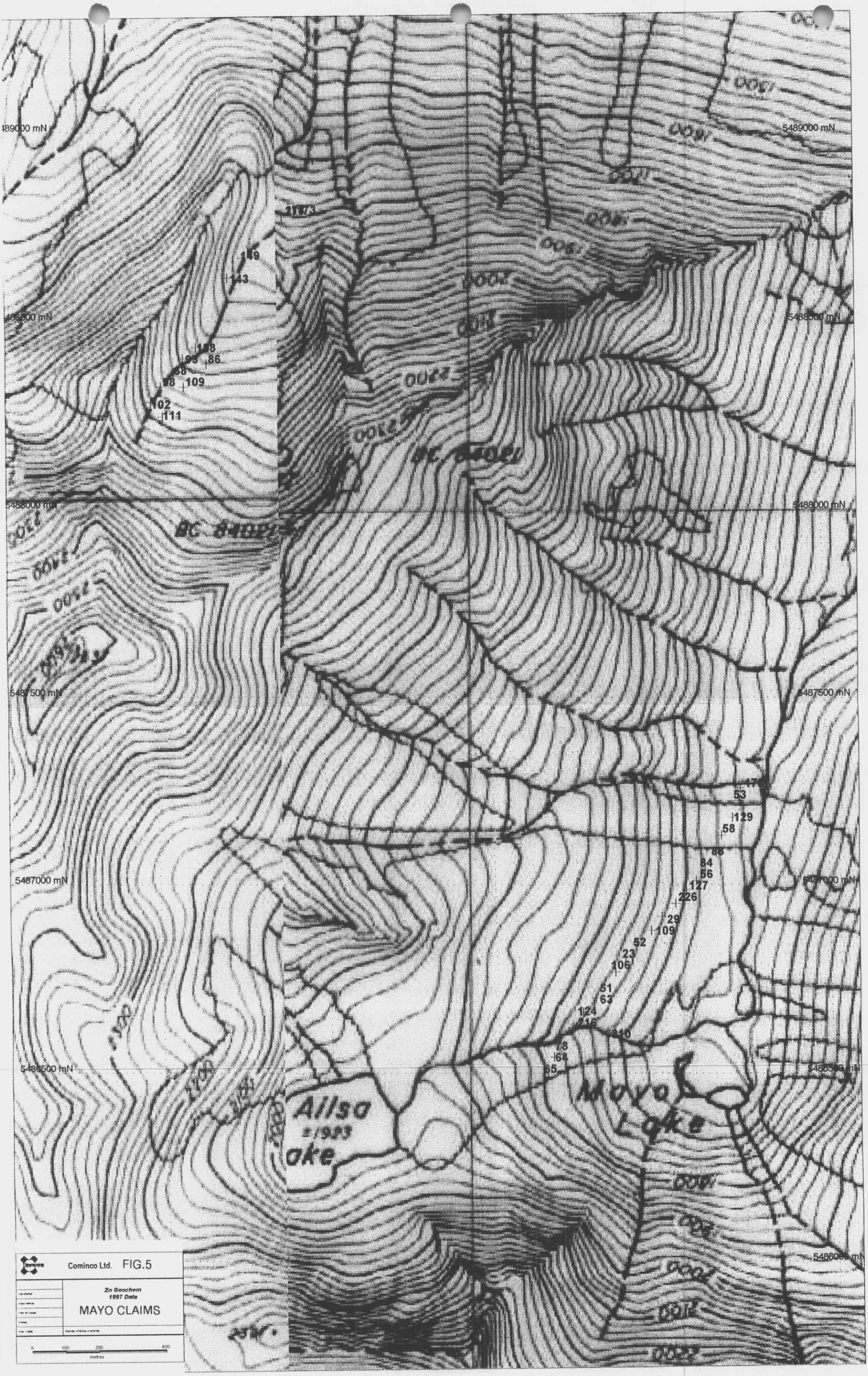
Mayo
Lake

Cominco Ltd. FIG. 4

Pb Geochem
1997 Data

MAYO CLAIMS

0 100 200 400
metres



Cominco Ltd. FIG.5

Zn Geochem
1997 Data

MAYO CLAIMS

0 100 200 400
metres

APPENDIX **MAYO CLAIMS - 1997 SOIL GEOCHEMISTRY**

LAB	FIELD	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm
S9713142	SS97-164	25	37	173	0.5	19	133	1	17	19	3.01	5
S9713143	SS97-165	7	14	53	0.7	12	70	1	3	3	1.63	2
S9713144	SS97-166	20	34	129	0.9	14	66	1	7	11	3.39	4
S9713145	SS97-167	11	28	58	0.4	21	56	1	1	5	1.69	4
S9713146	SS97-168	14	31	88	1	41	47	1	3	6	2.48	6
S9713147	SS97-169	13	21	84	1.5	28	64	1	3	5	1.97	7
S9713148	SS97-170	10	24	56	0.9	19	52	1	2	4	2.19	5
S9713149	SS97-171	10	21	127	0.8	23	101	1	5	4	1.75	7
S9713150	SS97-172	29	45	226	0.4	28	114	9	12	8	2.27	23
S9713151	SS97-173	6	13	29	0.7	2	30	1	1	2	1.69	3
S9713152	SS97-174	9	29	109	0.5	24	76	1	2	4	2.51	7
S9713153	SS97-175	11	12	52	1.1	12	47	1	1	3	1.95	6
S9713154	SS97-176	10	4	23	1.2	11	20	1	1	3	1.24	3
S9713155	SS97-177	11	23	106	0.8	24	52	1	4	5	2.15	11
S9713156	SS97-178	12	28	51	2.6	18	39	1	1	4	1.53	6
S9713157	SS97-179	6	40	63	0.9	19	25	1	3	6	2.16	6
S9713158	SS97-180	26	68	124	1.4	50	39	1	16	6	3.91	40
S9713159	SS97-181	35	98	216	0.5	18	59	5	25	9	5.28	44
S9713160	SS97-182	13	87	78	0.4	9	30	1	14	11	2.27	5
S9713161	SS97-183	22	49	64	0.4	3	24	1	6	13	2.04	3
S9713162	SS97-184	20	89	65	0.4	13	21	1	11	12	2.31	4
S9713163	SS97-185	35	123	810	0.4	135	104	22	29	13	7.36	62
S9713164	KH97-162	44	154	171	0.4	39	106	1	49	19	2.42	4
S9713165	KH97-163	147	105	218	0.4	62	43	1	63	37	4.59	5
S9713166	KH97-164	78	80	149	0.4	2	68	1	51	32	4.7	4
S9713167	KH97-165	60	100	143	0.4	24	91	1	41	31	4.18	4
S9713168	KH97-166	71	175	188	0.4	51	70	2	58	32	2.8	2
S9713169	KH97-167	46	85	93	0.4	57	48	1	28	17	2.77	4
S9713170	KH97-168	37	119	68	0.4	93	41	1	45	12	2.68	3
S9713171	KH97-169	57	109	98	0.4	49	39	1	35	19	2.87	4
S9713172	KH97-170	64	85	102	0.4	57	51	1	44	21	2.69	3
S9713173	KH97-171	50	69	111	0.4	34	37	1	25	22	2.68	3
S9713174	KH97-172	57	74	109	0.4	33	35	1	27	22	2.92	3

APPENDIX **MAYO CLAIMS - 1997 SOIL GEOCHEMISTRY**

LAB	FIELD	Cu	Pb	Zn	Ag	As	Ba	Cd	Co	Ni	Fe	Mo
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
S9713175	KH97-173	33	96	86	0.9	41	41	1	22	13	2.79	3
S9713176	KH97-174	73	114	173	0.4	37	45	1	54	22	2.75	5

APPENDIX

LAB	FIELD	Cr	Bi	Sb	V	Sn	W	Sr	Y	La	Mn	Mg
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
S9713142	SS97-164	12	5	5	14	2	2	6	7	11	393	0.31
S9713143	SS97-165	4	5	5	17	2	2	6	2	5	451	0.07
S9713144	SS97-166	10	5	5	13	2	8	11	3	11	263	0.45
S9713145	SS97-167	5	10	5	18	2	3	6	2	11	220	0.12
S9713146	SS97-168	7	9	5	17	2	4	7	2	7	450	0.19
S9713147	SS97-169	5	12	5	13	2	11	9	2	9	1091	0.17
S9713148	SS97-170	5	7	5	18	2	5	5	2	10	416	0.15
S9713149	SS97-171	4	12	5	12	2	12	29	2	8	1180	0.16
S9713150	SS97-172	7	11	5	15	2	23	29	30	18	4624	0.2
S9713151	SS97-173	4	5	5	21	2	3	3	2	5	130	0.03
S9713152	SS97-174	5	19	5	20	2	20	9	2	10	236	0.18
S9713153	SS97-175	6	5	17	14	2	3	4	3	6	209	0.09
S9713154	SS97-176	4	5	15	14	2	2	5	5	4	319	0.04
S9713155	SS97-177	5	20	7	9	2	25	4	3	12	377	0.24
S9713156	SS97-178	6	6	9	11	2	7	4	2	8	194	0.28
S9713157	SS97-179	8	10	5	14	2	5	4	2	11	171	0.82
S9713158	SS97-180	6	30	5	9	2	35	9	5	10	1789	0.27
S9713159	SS97-181	7	25	5	11	2	37	14	8	11	3834	0.5
S9713160	SS97-182	12	5	5	10	2	2	5	2	7	1442	1.39
S9713161	SS97-183	16	5	5	9	2	2	4	2	7	553	1.68
S9713162	SS97-184	13	5	10	10	2	2	5	4	9	534	1.66
S9713163	SS97-185	5	32	5	12	2	68	50	22	17	6141	0.24
S9713164	KH97-162	9	5	5	20	2	2	17	13	10	3255	0.27
S9713165	KH97-163	11	5	5	17	2	2	5	19	10	4435	0.28
S9713166	KH97-164	10	5	7	15	2	2	6	16	10	3614	0.3
S9713167	KH97-165	11	5	5	17	2	2	9	9	11	2447	0.33
S9713168	KH97-166	11	5	5	12	2	2	42	29	16	1980	0.41
S9713169	KH97-167	9	5	5	11	2	2	5	10	13	1616	0.39
S9713170	KH97-168	9	5	5	12	2	2	5	9	10	2216	0.35
S9713171	KH97-169	11	5	5	12	2	2	5	11	14	1360	0.44
S9713172	KH97-170	9	5	5	10	2	2	7	17	11	1411	0.41
S9713173	KH97-171	9	5	7	8	2	2	7	10	12	909	0.42
S9713174	KH97-172	10	5	7	10	2	2	5	13	14	954	0.46

APPENDIX

LAB	FIELD	Cr	Bi	Sb	V	Sn	W	Sr	Y	La	Mn	Mg
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
S9713175	KH97-173	8	5	5	12	2	2	9	10	9	891	0.24
S9713176	KH97-174	9	5	9	19	2	2	5	19	10	2320	0.3

APPENDIX

LAB	FIELD	Ti	Al	Ca	Na	K
		%	%	%	%	%
S9713142	SS97-164	0.01	2.66	0.04	0.01	0.08
S9713143	SS97-165	0.03	1.87	0.06	0.01	0.05
S9713144	SS97-166	0.01	1.55	0.1	0.01	0.08
S9713145	SS97-167	0.01	0.71	0.04	0.01	0.06
S9713146	SS97-168	0.02	1.82	0.06	0.01	0.06
S9713147	SS97-169	0.01	1.22	0.09	0.01	0.06
S9713148	SS97-170	0.01	0.83	0.05	0.01	0.05
S9713149	SS97-171	0.01	1.03	0.33	0.01	0.07
S9713150	SS97-172	0.02	1.24	0.17	0.01	0.08
S9713151	SS97-173	0.05	1.69	0.02	0.03	0.02
S9713152	SS97-174	0.02	0.93	0.06	0.01	0.06
S9713153	SS97-175	0.03	3.54	0.04	0.03	0.02
S9713154	SS97-176	0.06	3.79	0.04	0.02	0.01
S9713155	SS97-177	0.01	1.73	0.02	0.01	0.06
S9713156	SS97-178	0.01	1.64	0.03	0.03	0.04
S9713157	SS97-179	0.01	1.19	0.01	0.01	0.04
S9713158	SS97-180	0.01	1.16	0.07	0.01	0.09
S9713159	SS97-181	0.01	1.37	0.12	0.03	0.1
S9713160	SS97-182	0.01	1.43	0.07	0.01	0.06
S9713161	SS97-183	0.01	1.59	0.07	0.03	0.07
S9713162	SS97-184	0.01	1.7	0.08	0.01	0.05
S9713163	SS97-185	0.01	1.65	0.5	0.01	0.08
S9713164	KH97-162	0.03	2.06	0.17	0.03	0.07
S9713165	KH97-163	0.03	2.24	0.03	0.01	0.07
S9713166	KH97-164	0.01	1.63	0.02	0.01	0.07
S9713167	KH97-165	0.01	1.71	0.05	0.03	0.1
S9713168	KH97-166	0.01	1.35	0.48	0.01	0.12
S9713169	KH97-167	0.01	1.26	0.04	0.01	0.08
S9713170	KH97-168	0.01	1.05	0.04	0.03	0.07
S9713171	KH97-169	0.01	1.34	0.04	0.03	0.09
S9713172	KH97-170	0.01	1.52	0.06	0.01	0.08
S9713173	KH97-171	0.01	1.15	0.08	0.01	0.1
S9713174	KH97-172	0.01	1.32	0.04	0.01	0.09

APPENDIX

LAB	FIELD	Ti	Al	Ca	Na	K
		%	%	%	%	%
S9713175	KH97-173	0.01	1.19	0.09	0.01	0.06
S9713176	KH97-174	0.04	2.54	0.04	0.03	0.07