

LOG NO:	FEB 03 1995	U
ACTION:		
FILE NO:		

COGEMA Resources Inc.

RECEIVED
JAN 24 1995
Gold Commissioner's Office
VANCOUVER, B.C.

Geology and Geochemistry

**LUCAS PROPERTY
(Nechako Project)
1994**

**Omenica Mining Division
British Columbia**

NTS 93F/11E & W

FILMED

K. Schimann
January 1995
94-CND-78-09

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

23,745

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	1
PHYSIOGRAPHY AND ACCESS	1
REGIONAL GEOLOGY	3
LEGAL DESCRIPTION OF THE PROPERTY	3
METHODOLOGY	3
GEOLOGY	7
GEOCHEMISTRY	7
CONCLUSIONS	7

List of Appendices

- Appendix 1 Rock Descriptions and Analyses
- Appendix 2 Statement of Expenditures
- Appendix 3 Statement of Qualifications

List of Figures

	<u>Page</u>
Figure 1	Nechako Project, Location of Properties 2
Figure 2	Claim Map of the Lucas Property 6

List of Tables

	<u>Page</u>
Table 1:	Main Geologic Map Units of the Nechako Basin 4
Table 2	List of Claims: Lucas Property 5

List of Maps

(in pocket)

	<u>Scale</u>
Map 1	Lucas Property, Geology 1:15 000
Map 2	Lucas Property, Geochemistry 1:15 000

INTRODUCTION

The Lucas Property was acquired by staking in late 1994, based on the release of a Geological Survey Branch regional geochemical lake sediment survey and COGEMA's evaluation of the regional geology. It is located in the Nechako Basin, in the central part of British Columbia (Fig. 1). Mineral showings and deposits with both high-grade vein and low-grade bulk tonnage potential occur in this region.

The property lies in the central part of the Stikine Terrane. The geology of this part of the Stikine Terrane contains three volcanic stratigraphic groups of latest Upper Cretaceous to Miocene age, underlain by Cretaceous and older basement rocks. Mineralization is associated with an Eocene tectonic event that involved crustal extension, felsic and basic volcanism, unroofed metamorphic complexes, large and small scale calderas and associated plutons, pull-apart sedimentary basins, and basin and range geomorphology. This Eocene tectonic-metallogenic belt extends from northwestern British Columbia and crosses all major geologic terranes of the northern Cordillera to the Columbia River basalt plateau in Washington State. The Tertiary tectonic evolution and volcanism of the Nechako Basin are similar to that of the Great Basin of Nevada and adjacent States and the potential for volcanic-hosted and hot-spring type epithermal deposits is similar.

Two epithermal precious metals deposits are currently being mined within this Eocene metallogenic province: the Cannon mine (Wenatchee District), and the Golden Promise in the Republic District. Three have recently been mined out the Equity Silver Mine, the Blackdome, and the Kettle deposits. High sulphide replacement deposits of the Republic graben, although not strictly epithermal, are part of the same metallogenic event.

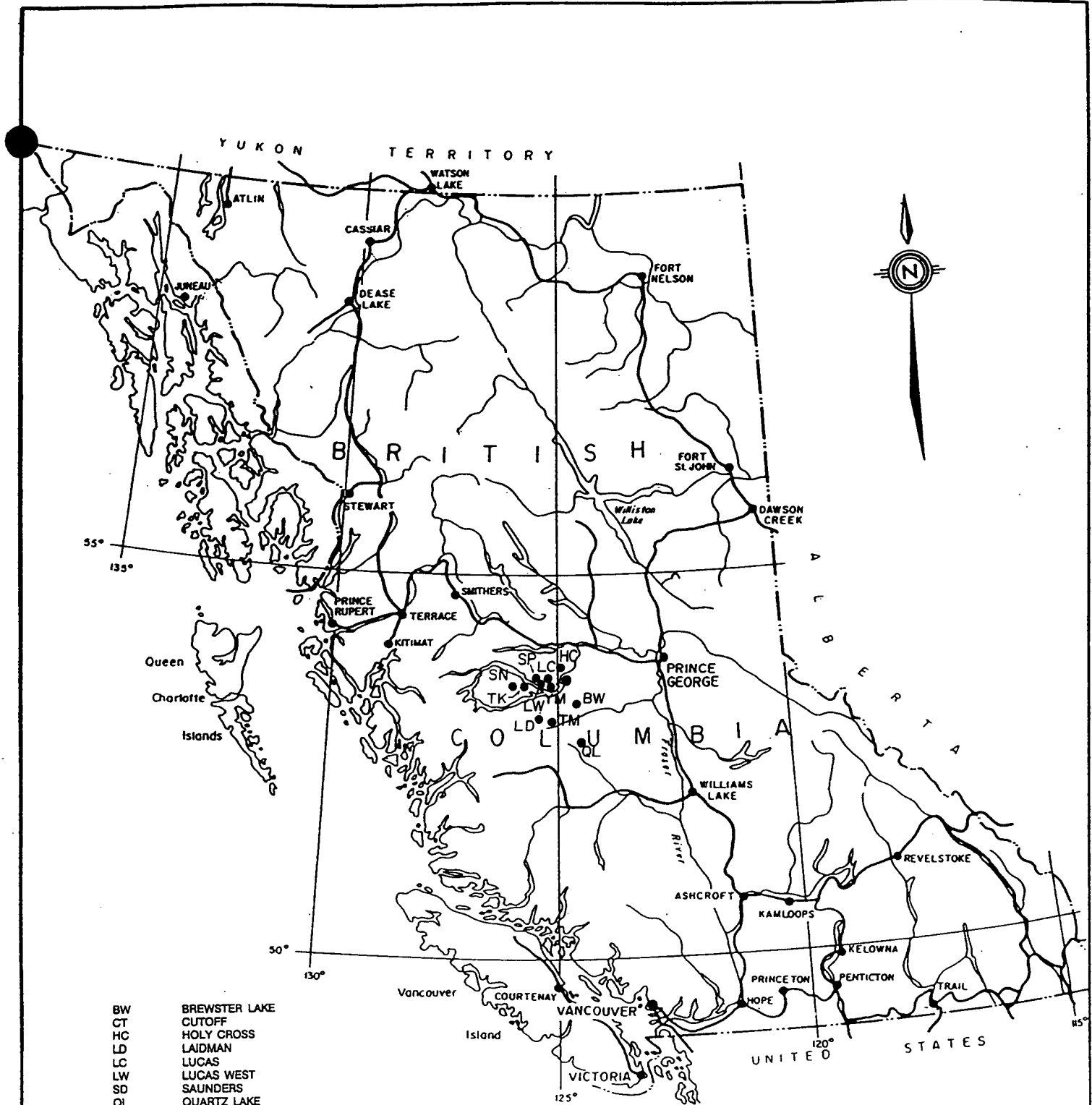
PHYSIOGRAPHY AND ACCESS

The Nechako Basin is part of the Interior Plateau of the Canadian Cordillera, comprising the Nechako Plateau north of the Blackwater River, and the Fraser Plateau south of it.

The North of the Basin, where the Lucas property is located, is a plateau with a fairly constant overall elevation, but quite dissected at the local scale in a distinctive basin and range (horst and graben) topography producing more abundant outcrop than in the other two areas. Elevations vary from 1,417 m at the top of Deerhorn Hill to 715 m on François Lake.

Access is good, using a network of forestry roads starting from Highway 16; from one of these an old 4-WD trail reaches the southwest corner of Lucas Lake. There are no major environmental concerns.

On the Lucas property, outcrop conditions are quite good, compared to other parts of the region, and fairly evenly distributed due to the locally hilly topography.



- BW BREWSTER LAKE
- CT CUTOFF
- HC HOLY CROSS
- LD LAIDMAN
- LC LUCAS
- LW LUCAS WEST
- SD SAUNDERS
- QL QUARTZ LAKE
- SN SNAG
- TM TAM
- TK TONKA
- YM YELLOW MOOSE



BRITISH COLUMBIA

NECHAKO PROJECT

LOCATION OF PROPERTIES

Figure 1

REGIONAL GEOLOGY

The Tertiary geologic elements of the Nechako Basin are part of a regional extensional system that extends from the Republic area of northern Washington State, northwesterly for some 1000 kilometres into the Babine district of north central British Columbia. This belt trends northwest with the approximate dimensions of 1000 X 200 kilometres. It crosses major terrane boundaries and underlies the Quesnel, Kootenay and Omineca Terranes in the south and the Stikine Terrane in the north, crossing the oceanic Cache Creek Group. It overlaps the southern margin of the Bowser Basin where it continues northward as a thin strip along the eastern margin of the Coast Range.

Stratigraphic and intrusive rocks in the Stikine Terrane range in age from Palaeozoic to Pleistocene. With respect to the Eocene mineral setting, the geologic elements of the Stikine Terrane may be divided into three separate packages: basement rocks, latest Upper Cretaceous-Eocene rocks associated with mineralization, and cover rocks (Table 1).

LEGAL DESCRIPTION OF THE PROPERTY

The Lucas property consists of 20 2-post claims with a total of 20 units. They are owned 100% by COGEMA Resources Inc. The claims are listed in table 1 and shown on figure 2.

METHODOLOGY

The Lucas property was accessed from a camp located in the southwest corner of Lucas Lake. Systematic geological mapping and prospecting for alteration and mineralization in outcrop and float covered the whole property. Outcrops are shown on Map 1 and rock and silt samples collected on Map 2. No indication was found of previous mineral exploration activities.

Analyses of all rock and silt samples were done by Acme Analytical Laboratories Ltd. The analytical procedures were as follows:

Au: Aqua regia digestion, MIBK extraction, atomic absorption; 50 g for till;

30 Elements: Aqua regia digestion, ICP on 0.5 g for till and rock

Hg: Flameless atomic absorption

Aqua regia digestion results in partial analysis for the following elements: Ca, Mg, Fe, Mn, Cr, Ba, Sr, U, Th, La, Ti, B, Al, Na, K.

Table 1: Main Geologic Map Units of the Nechako Basin

<u>Stratified Rocks</u>	<u>Intrusive and Metamorphic Rocks</u>
11. Anahim Volcanics (Pliocene-Pleistocene)	
10. Chilcotin Volcanics (Miocene)	
9. Endako Group (Eocene-Oligocene)	
8. Ootsa Lake Group (Eocene and Palaeocene)	G. Eocene (stocks, plugs, dykes, rhyolite, felsite, porphyry, diorite, gabbro)
7. Kasalka-Kingsvale Groups (Upper Cretaceous)	F. Upper Cretaceous-Palaeocene (Quanchus Intrusions: stocks and batholiths, diorite to quartz monzonite)
6. Skeena-Jackass Mountain Groups (Lower Cretaceous)	E. Mid-Cretaceous (mainly tonalite to quartz monzonite of Coast Range complex)
5. Gambier Group (Upper Jurassic-Lower Cretaceous)	D. Jurassic-Cretaceous (François Lake Batholith; quartz diorite to granite, includes quartz-feldspar porphyry)
4. Relay Mountain-Bowser Groups (Upper Jurassic-Lower Cretaceous)	
3. Hazelton Group (Lower and Middle Jurassic)	C. Middle Jurassic (locally foliated granodiorite and quartz monzonite)
2. Stuhini Group (Upper Triassic)	
1. Cache Creek Group (Upper Palaeozoic)	B. Permian (mainly granodiorite in lower Chilcotin River)
	A. Metamorphic Rocks (gneiss, schist, metavolcanics, cataclasites)

Table 2 List of Claims: Lucas Property

NAME	RECORD No	UNITS	STAKED DATE	YEAR	GOOD UNTIL	MINING DIVISION	NTS
LUCAS PROPERTY							
CR 1	326603	1	03-Jun	1994	1998	OMINECA	93F/11W
CR 2	326604	1	03-Jun	1994	1998	OMINECA	93F/11W
CR 3	326605	1	03-Jun	1994	1998	OMINECA	93F/11W+11E
CR 4	326606	1	03-Jun	1994	1998	OMINECA	93F/11W+11E
CR 5	326607	1	03-Jun	1994	1998	OMINECA	93F/11E
CR 6	326608	1	03-Jun	1994	1998	OMINECA	93F/11E
CR 7	326609	1	03-Jun	1994	1998	OMINECA	93F/11E
CR 8	326610	1	03-Jun	1994	1998	OMINECA	93F/11E
CR 9	326611	1	03-Jun	1994	1998	OMINECA	93F/11E
CR 10	326612	1	03-Jun	1994	1998	OMINECA	93F/11E
CR 11	326613	1	03-Jun	1994	1998	OMINECA	93F/11W
CR 12	326614	1	03-Jun	1994	1998	OMINECA	93F/11W
CR 13	326615	1	03-Jun	1994	1998	OMINECA	93F/11W+11E
CR 14	326616	1	03-Jun	1994	1998	OMINECA	93F/11W+11E
CR 15	326617	1	03-Jun	1994	1998	OMINECA	93F/11E
CR 16	326618	1	03-Jun	1994	1998	OMINECA	93F/11E
CR 17	326619	1	03-Jun	1994	1998	OMINECA	93F/11E
CR 18	326620	1	03-Jun	1994	1998	OMINECA	93F/11E
CR 19	326621	1	03-Jun	1994	1998	OMINECA	93F/11E
CR 20	326622	1	03-Jun	1994	1998	OMINECA	93F/11E
	TOTAL	20					

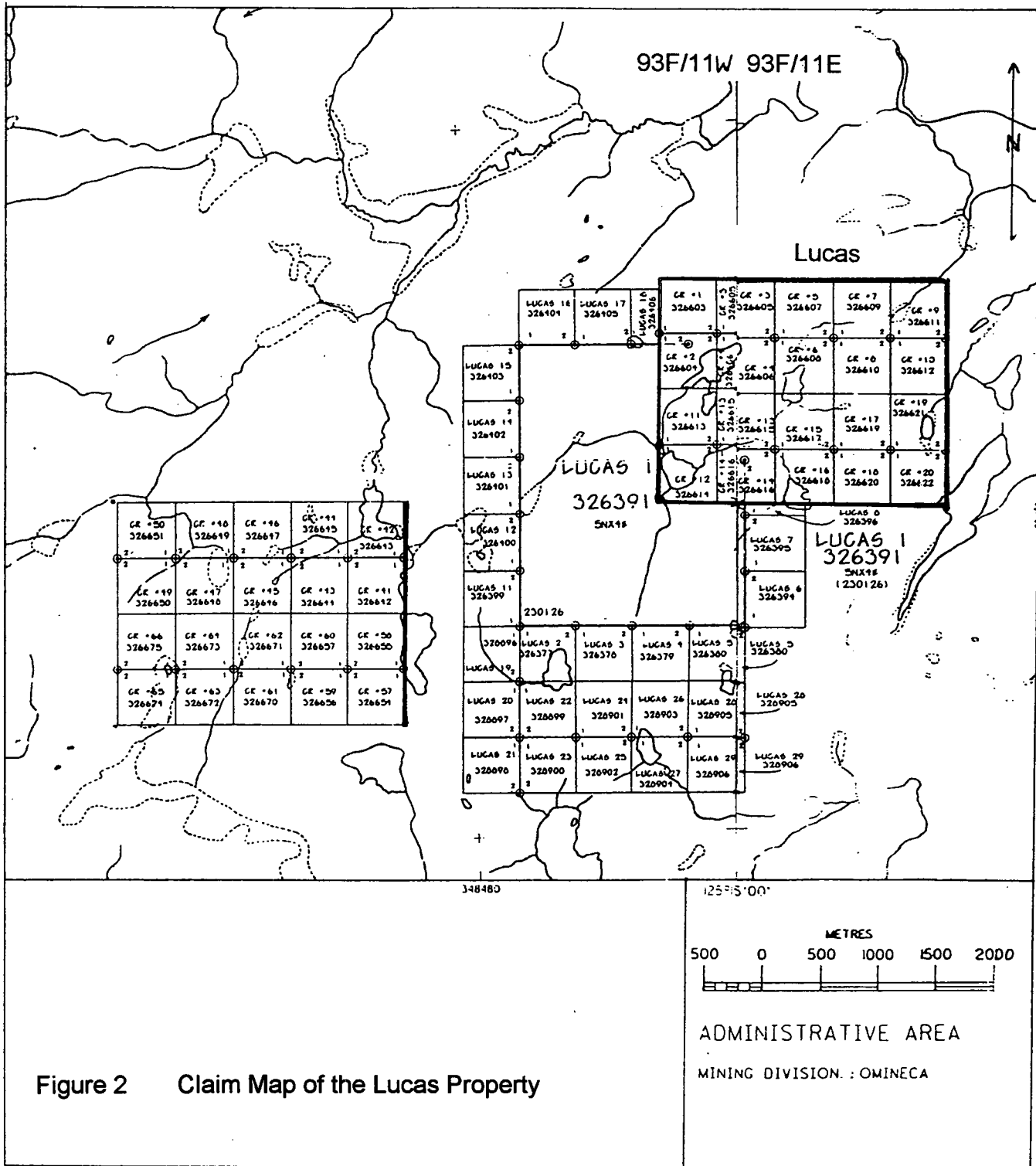


Figure 2 Claim Map of the Lucas Property

GEOLOGY

The Lucas property is underlain mainly by Kasalka feldspar porphyry and tuffaceous andesites, with lower Endako basalt along the eastern boundary (Map 1).

The Kasalka Group forms the core of the property. The dominant lithologies are feldspar porphyry andesitic pyroclastics, mostly coarse. Crystal/lithic ash tuffs are also present. An area of more dacitic pyroclastic rocks occurs in the west central part of the property. Lower Endako Group andesitic basalts underlie the higher ground along the eastern border of the property and are also present in the northwest corner. Very distinctive dykes of rhyolite or dacite cut the Endako Group andesitic basalt; they are several metres to, possibly in place, several tenths of metres wide; they are fine to medium grained, grey-green when fresh, white when weathered, quartz feldspar phyric, with abundant fine biotite and some magnetite, and have a "sandy" aspect. They are considered to be part of the Ootsa Lake Group and could be related to a rhyolite dome forming a large high round hill, a few kilometres east of the property. They are similar to a unit mapped as felsite in 93F/3¹.

A broad zone of propylitization, locally with silicification and pyritization occurs in the centre of the property, over a length of more than 1 km. It trends north to northeast and crosses the lake with the highest Au geochemical anomaly, which led to the staking of this property (1993 BC Geological Survey).

GEOCHEMISTRY

Analysed rock samples, of altered and more or less silicified andesite, from the main propylitized area, have only slightly anomalous Au, but are anomalous in As, Sb, and Hg. One sample of subcropping altered andesite west of the main area contains 310 ppb Au with anomalous As, Hg, Cu, and Pb. The highest Hg values are found in quartz boulders which may not always be proximal.

Two samples of stream sediment were taken; they are both anomalous in Au, As, and Hg.

CONCLUSIONS

The 1994 exploration work on the Lucas property discovered alteration and mineralization which can be related to the lake sediment anomalies that led to the staking of the claims. Further work is required to define the extent and potential of the mineralization found in place and the source of the mineralized boulders in the till.

¹ L.Diakow et al. 1994, GSB OF 1994-2

Appendix 1
Rock Descriptions and Analyses

Area	Number	Type	Name	Description	Sampler
LC	LC-001	ft	cgl	15/2; rusty fine diss py in dk gry matrix of cgl (100 m W of F.P. CR9/10	RB
LC	5000	ft	rhy	15cm/3; silicif rhy + dk grey qz	KS
LC	5001	oc	andes	green propyl Fp P andesite diss py	KS
LC	5002	ft	qz	15/1; local fit of white bull qz, some black weather. carb.	KS
LC	5003	oc	qz	white bull qz, some black weather. carb., in propyl andesite	KS
LC	5004	oc	qz	qz sweats in propyl andesite; epidote.	KS
LC	5005	oc	qz	pachty qz vein, fine specularite +/- propyl andesite; jasperoidal vein nearby.	KS
LC	5006	ft	qz	10/1; chalced. qz py casts, looks local	KS
LC	5007	oc	qz-carb	10 cm chalced qz-ankerite vein in band of orange weathering basalt	KS
LC	5008	oc	tuffa	P.?us recent tuffa in seepage, spring	KS
LC	5009	ft	rhy	8/1-2; very fine grained aph rhy? some sericite on fract, fine qz veinlets	KS
LC	5010	oc	andes	fract. propyl andesite, some Cc gashes, dark chlorite, hematite no py	KS
LC	5011	oc	andes	zone with py along NS fractures in propyl andesite	KS
LC	5109	ft	Silic.	Silica bldrs, 1.5m wide (several small) - may be in place - major digging!!	JB
LC	5110	ft	Fp P	Float '3' fine dissem sulphides in siliceous F-spar P.	JB
LC	5111	ft	Sil	Brittle silica, dark colored float. 10m from 5110R.	JB
LC	5112	ft	Sil	Rusty to blk silicified '3' bldr, 12m wide, sulfur smelling.	JB
LC	5113	ft	Fp P	Oxidized bands feld-P same location above, 5m wide.	JB
LC	5114	oc	Fp P	Oxidized altered feldspar P.?	JB
LC	5115	ft	Qtz	Wavy band qtz in basalt o/c area, but sample is ft chalcedony.	JB
LC	5116	ft	qz	1.5 m/R4; dark silica bldr, clean crystalline qz stringers no vis. sulph.	JB
LC	5117	ft	Sil	in same ck, felsic silicified '1', minor py 12cm fine grained.	JB
LC	5118	ft	Fp P	8cm '4' float, altered silicified feldspar P no sulphide. Same ck.	JB
LC	5119	ft	Monz	Up to 15% dissem py, very siliceous '4' monzonite.	JB
LC	5120	oc	Fp P	In canyon, at 5108S site, 0.5m band altered Feldspar P argillized, very minor py <1% 2m S-side of ck, can be followed for 6-8m, goes on bank.	JB
LC	5121	oc	Fp P	Approx 125m N150 from 5120R, found 2cm wide in altered Feldspar P approx strike N15E, dipping 80W.	JB
LC	5122	ft	Fp	Altered Feldspar P.?along strike from 5121 (50m), minor py.	JB
LC	5209	oc	Fp P	Arg. alt. qtz feldspar P.? with qtz veinlet (1-3mm) stockwork, occasional dissem py.	RB
LC	5210	oc	Fp P	Arg. alt. qtz feldspar P.? with qtz veinlet (1-3mm) stockwork, occasional dissem py.	RB
LC	5211	ft	Qz vein	Float? about 150 m north of 5209R. Large bldr? qtz veining, more py but same as 5209R.	RB
LC	5212	ft	Qz vein	Float? about 150 m north of 5209/10R. Large bldr? qtz veining, more py but same as 5209R.	RB
LC	5213	oc	Qz vein	Same loc as 5209/10R; more qtz veining, more py.	RB
LC	5214	ft	Fp P	25 cm; Possible subcrop, prop. alt. crowded feldspar, P.?hyry with quartz veining, occasional rusty.	RB
LC	5215	sc	Qtz	Qtz/jasper with occasional dissem. py in qtz.	RB
LC	5216	sc	Fp P	Prop. alt. crowded feldspar, P.?with qtz veining, dissem py. Loc 30m NW of 5209R.	RB
LC	5217	ft	Fp P	15 cm; Totally silicic, felds. P trace py.	RB
LC	5218	sc	Fp P	15 cm; Prop./arg., alt. felds. P.?, qtz veining, rusty orange weath, if o/c, it is very narrow seam (20-50cm).	RB
LC	5219	ft	Qtz	10 cm; In small lake which drains into disc. lake from SW, qtz with yellow/orange weathering.	RB
LC	5221	ft	Qtz	30 cm; Qtz with dissem py.	RB

Area	Number	Type	Name	Description	Sampler
LC	5222	sc	Fp P	Prop. alt. felds P.?or tuff. Trace py (Carb- tuffa). Sample same loc 5228.	RB
LC	5223	oc	Qz vein	Qtz veins (stkwork) cutting prop alt felds P.?(or tuff), occasional dissem py. lts about 40m N of 5209/10R.	RB
LC	5224	oc	Qz swk	Qtz stkwork with py in prop alt fels P.? Loc about 20m W of 5223R.	RB
LC	5225	oc	andes	Qtz veining/ silicification of tuff andesite, with py. Loc 50m SW of 5209R.	RB
LC	5226	oc	andes	Qtz veining/ silicification of tuff andesite, with py. Loc 50m SW of 5209R.	RB
LC	5227	oc	andes	Prop alt tuff andesite?, with occasional qtz veining and dissem py.	RB
LC	5228	sc	Fp P	Prop. alt. felds P.?or tuff. Trace py (Carb- tuffa). Sample same loc 5222.	RB
LC	5229	ft	Tf	15 cm; Qtz veining in prop alt tuff?	RB
LC	5230	ft	Qtz bx	13 cm; 5m E of 5229, qtz/qtz bx.	RB
LC	5231	ft	Sil.	25 cm; Very siliceous fragmental rock.	RB
LC	5232	sc	Fp P	20 square meters SC, prop alt felds P qtz stringers.	RB

Rock Sample Analyse

Sample	Au	Ag	As	Sb	Hg	Mo	Cu	Pb	Zn	Ba	Ni	Cr	Co	Mn	Fe	V	Sr	Mg	Ca	Ti	P	La	U	Th	Cd	Bi	B	W	Al	Na	K	
	ppb	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
LC-001	11	1.4	104	11	1250	10	12	60	110	72	16	16	1	58	2.22	2	16	0.01	0.03	0.01	0.006	17	5	3	0.2	2	2	1	0.24	0.01	0.24	
5000	1	0.1	16	5	450	4	8	9	3	122	5	7	1	128	0.35	2	7	0.01	0.01	0.01	0.003	17	5	7	0.2	2	2	1	0.15	0.03	0.12	
5001	3	0.1	6	2	105	5	25	15	82	519	10	14	17	784	3.94	46	52	0.91	0.49	0.01	0.116	15	5	2	0.3	2	2	1	1.55	0.04	0.20	
5002	1	0.1	3	4	5	2	5	4	17	30	6	7	2	381	0.68	2	7	0.04	0.03	0.01	0.014	2	5	2	0.3	2	2	3	0.11	0.01	0.03	
5003	1	0.1	2	2	5	2	23	6	32	102	8	7	6	521	1.97	38	50	0.45	0.77	0.13	0.055	6	5	2	0.2	2	2	1	1.01	0.11	0.07	
5004	1	0.1	6	2	5	2	13	7	30	91	11	19	4	536	1.28	17	24	0.32	2.58	0.01	0.059	9	5	2	0.3	2	2	2	0.72	0.02	0.12	
5005	2	0.1	2	2	5	1	15	10	57	17	31	24	15	1967	2.65	48	190	5.54	12.03	0.01	0.018	2	5	4	0.6	2	2	3	0.44	0.02	0.04	
5006	1	0.1	28	14	155	6	4	6	3	7	9	9	1	64	0.37	2	2	0.01	0.03	0.01	0.002	3	5	2	0.2	2	2	2	0.02	0.01	0.01	
5007	1	0.1	2	3	5	4	12	3	39	38	28	14	8	570	2.53	27	12	0.08	0.48	0.01	0.020	3	5	2	0.2	3	2	1	0.16	0.01	0.03	
5008	1	0.1	2	3	5	1	6	2	6	1564	3	1	5	130	0.07	2	2477	0.23	34.82	0.01	0.008	2	5	2	0.4	2	2	1	0.08	0.01	0.02	
5009	1	0.1	2	3	5	1	3	25	26	574	3	3	2	137	0.50	2	33	0.05	0.48	0.01	0.009	13	5	4	0.3	2	2	1	0.31	0.02	0.18	
5010	1	0.1	3	2	5	1	12	9	75	340	8	13	11	865	2.94	64	69	0.43	2.47	0.04	0.139	13	5	2	0.3	2	2	1	0.90	0.05	0.19	
5011	2	0.1	74	2	5	3	10	11	62	95	7	12	7	247	3.64	31	21	0.40	0.26	0.01	0.102	12	5	2	0.2	2	2	1	1.41	0.03	0.19	
5109	1	0.1	43	7	140	4	3	3	4	9	6	6	1	122	0.76	2	2	0.01	0.01	0.01	0.009	48	5	4	0.2	2	2	1	0.23	0.01	0.17	
5110	1	0.1	3	2	5	2	8	6	27	54	4	6	4	451	2.32	24	139	0.17	1.83	0.12	0.083	5	5	2	0.2	4	2	2	1.16	0.19	0.11	
5111	1	0.1	28	38	180	17	5	3	1	13	9	10	1	61	0.41	2	2	0.01	0.04	0.01	0.014	2	5	2	0.2	2	2	2	0.01	0.01	0.01	
5112	3	0.1	333	149	740	12	7	2	1	66	16	13	1	100	0.93	2	11	0.01	0.01	0.01	0.004	2	5	2	0.2	2	2	1	0.01	0.01	0.05	
5113	1	0.1	5	2	5	1	7	8	70	117	6	11	8	625	2.55	46	23	0.26	0.33	0.01	0.089	9	5	2	0.2	2	2	1	1.47	0.10	0.42	
5114	15	0.3	63	6	5	7	22	29	73	104	8	6	7	240	2.70	17	20	0.30	0.28	0.01	0.080	14	5	2	0.3	2	2	1	1.31	0.02	0.22	
5115	1	0.1	3	4	5	4	10	4	20	48	19	18	4	363	0.98	12	79	0.19	2.04	0.01	0.026	5	5	2	0.2	2	2	2	0.36	0.01	0.02	
5116	2	0.1	172	118	555	18	6	2	3	30	11	13	1	427	1.04	2	10	0.01	0.05	0.01	0.002	2	5	2	0.2	2	2	4	0.02	0.01	0.01	
5117	1	0.1	7	4	5	2	18	3	9	35	6	7	1	762	1.56	9	12	0.21	0.13	0.01	0.016	7	5	2	0.2	2	2	1	0.41	0.06	0.03	
5118	4	0.1	21	6	150	5	5	9	9	38	13	12	1	284	0.54	3	7	0.01	0.03	0.01	0.005	31	5	6	0.2	2	2	1	0.16	0.04	0.16	
5119	2	0.1	54	2	5	1	46	9	42	27	16	12	26	1279	5.61	113	40	1.93	2.44	0.12	0.077	3	5	2	0.2	4	2	1	2.02	0.09	0.11	
5120	30	0.5	33	2	5	2	23	8	40	127	5	5	6	172	2.91	19	12	0.42	0.09	0.01	0.053	6	5	2	0.2	2	2	1	1.09	0.01	0.17	
5121	63	0.9	183	2	5	5	21	13	34	56	13	9	10	906	2.59	17	29	0.27	0.89	0.01	0.021	5	5	2	0.2	2	2	1	0.68	0.01	0.04	
5122	6	0.1	5	34	5	2	54	71	73	63	6	5	9	345	2.84	19	9	0.51	0.20	0.01	0.055	7	5	2	0.2	3	2	1	1.42	0.01	0.16	
5209	5	0.3	8	3	30	2	13	43	37	912	5	7	7	258	2.34	12	26	0.21	0.16	0.01	0.071	14	5	2	0.2	2	2	2	0.97	0.03	0.25	
5210	3	0.2	9	2	25	1	26	29	43	1199	7	6	8	316	1.67	11	24	0.25	0.26	0.01	0.079	14	5	2	0.2	2	2	1	1.10	0.02	0.29	
5211	1	0.1	10	35	240	8	5	2	1	21	10	14	1	65	0.44	2	1	0.01	0.01	0.01	0.002	2	5	2	0.2	2	2	5	0.01	0.01	0.01	
5212	1	0.1	31	31	270	13	12	4	1	14	14	16	1	65	0.59	2	1	0.01	0.01	0.01	0.002	2	6	2	0.2	2	2	4	0.01	0.01	0.02	
5213	1	0.1	3	2	40	2	4	11	37	193	8	7	7	1316	1.58	10	27	0.24	0.65	0.01	0.048	10	5	2	0.2	2	2	1	0.81	0.02	0.20	
5214	2	0.1	2	2	205	2	18	5	52	121	10	7	7	481	2.34	16	18	0.37	0.39	0.01	0.044	10	5	2	0.2	2	2	2	1.17	0.01	0.20	
5215	1	0.1	2	2	5	3	10	2	21	36	30	15	9	429	2.66	22	6	0.04	0.05	0.01	0.015	2	5	2	0.2	2	2	3	0.11	0.01	0.02	
5216	39	0.5	7	2	30	2	34	36	71	239	11	11	13	508	3.80	26	15	0.53	0.19	0.01	0.052	14	5	2	0.2	2	2	1	1.47	0.01	0.23	
5217	1	0.1	24	18	1110	4	2	2	1	5	7	9	1	59	0.34	2	1	0.01	0.01	0.01	0.002	2	5	2	0.2	2	2	2	0.05	0.01	0.02	
5218	310	2.0	170	10	395	4	100	246	57	109	8	9	6	158	2.48	16	27	0.26	0.11	0.01	0.040	3	5	2	0.2	2	2	1	0.75	0.01	0.16	
5219	6	0.1	24	5	620	7	4	12	25	42	10	9	1	263	0.92	2	10	0.01	0.03	0.01	0.003	17	5	5	0.2	2	2	1	0.20	0.03	0.15	
5221	13	0.2	26	2	45	13	2	16	22	129	5	5	5	792	1.46	10	54	0.09	0.80	0.01	0.064	11	5	2	0.2	2	2	1	0.59	0.01	0.20	
5222	2	0.3	18	2	135	6	2	31	152	655	676	7	137	737	2.80	14	95	0.28	0.64	0.01	0.009	69	5	10	0.9	3	2	1	1.43	0.01	0.22	
5223	6	0.4	76	3	25	3	16	24	113	159	17	10	19	487	5.63	41	14	1.14	0.15	0.01	0.041	12	5	2	0.2	2	2	1	1.96	0.01	0.22	
5224	29	0.6	40	2	5	1	40	9	55	72	9	11	7	304	2.54	17	11	0.35	0.24	0.01	0.069	10	5	2	0.2	2	2	2	1.22	0.01	0.22	
5225	38	0.4	122	5	35	4	16	20	11	110	7	8	2	56	1.46	10	15	0.07	0.09	0.01	0.037	10	5	2	0.2	2	2	1	0.51	0.01	0.24	
5226	8	0.9	26	2	10	4	12	49	7	88	5	6	1	37	0.85	5	13	0.02	0.05	0.01	0.028	5	5	2	0.2	2	2	1	0.32	0.01	0.19	
5227	3	0.1	36	2	15	2	10	10	66	86	7	7	10	709	3.15	28	14	0.43	0.30	0.01	0.100	14	5	2	0.2	2	2	1	1.42	0.03	0.24	
5228	8	0.4	55	2	25	3	7	11	51	239	7	8	9	468	2.84	25	26	0.31	0.34	0.01	0.098	14	5	2	0.2	2	2	1	1.14	0.03	0.24	
5229	10	0.1	11	2	5	2	11	8	72	150	14	17	20	1434	3.81	54	17	1.82	0.37	0.01	0.085	12	5	2	0.2	2	2	1	2.19	0.01	0.18	
5230	1	0.1	9	6	205	7	4	2	4	10	10	10	1	55	0.37	2	1	0.01	0.01	0.01	0.002	2	5	2	0.2	2	2	2	0.05	0.01	0.02	
5231	1	0.1	20	2	1030	2	1	9	18	46	6	6	1	64	0.22	3	10	0.01	0.03	0.01	0.004	33	5	7	0.2	2	3	1	0.18	0.03	0.22	
5232	13	0.4	81	2																												

Sift Sample Analyses

NES.XLS

Area	Sample	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ba ppm	Ni ppm	Cr ppm	Co ppm	Mn ppm	Fe %	V ppm	Sr ppm	Mg %	Ca %	Ti %	P %	La ppm	U ppm	Th ppm	Cd ppm	Bi ppm	B ppm	W ppm	Al %	Na %	K %
LC	5108S	6	0.1	7	2	85	1	14	6	56	138	13	21	10	1098	2.91	41	117	0.58	0.81	0.03	0.092	17	5	2	0.2	2	2	1	1.23	0.03	0.13
LC	5220S	4	0.1	18	2	70	1	10	7	48	181	11	20	11	1520	3.88	56	93	0.73	0.65	0.06	0.092	17	5	2	0.2	2	2	2	1.24	0.05	0.13

Appendix 2
Statement of Expenditures

STATEMENT OF EXPENDITURES

LUCAS PROPERTY

Geology and Geochemistry,

July to December 1994



Personnel	K. Schimann	5 days @ \$438	\$ 2 190
	R. Bilquist, J. Boutwell, and L. Allen	8 days @ \$201	\$ 1 608
Field Costs		13 days @ \$131	\$ 1 703
	(Food, camp, truck and ATV rentals, freight and misc. supplies)		
Rock analyses		50 samples @ \$15	\$ 750
Silt analyses		2 samples @ \$15	\$ 30
Data processing and report preparation			\$ 502
		Total	\$ 6 783

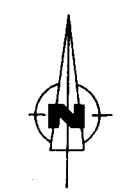
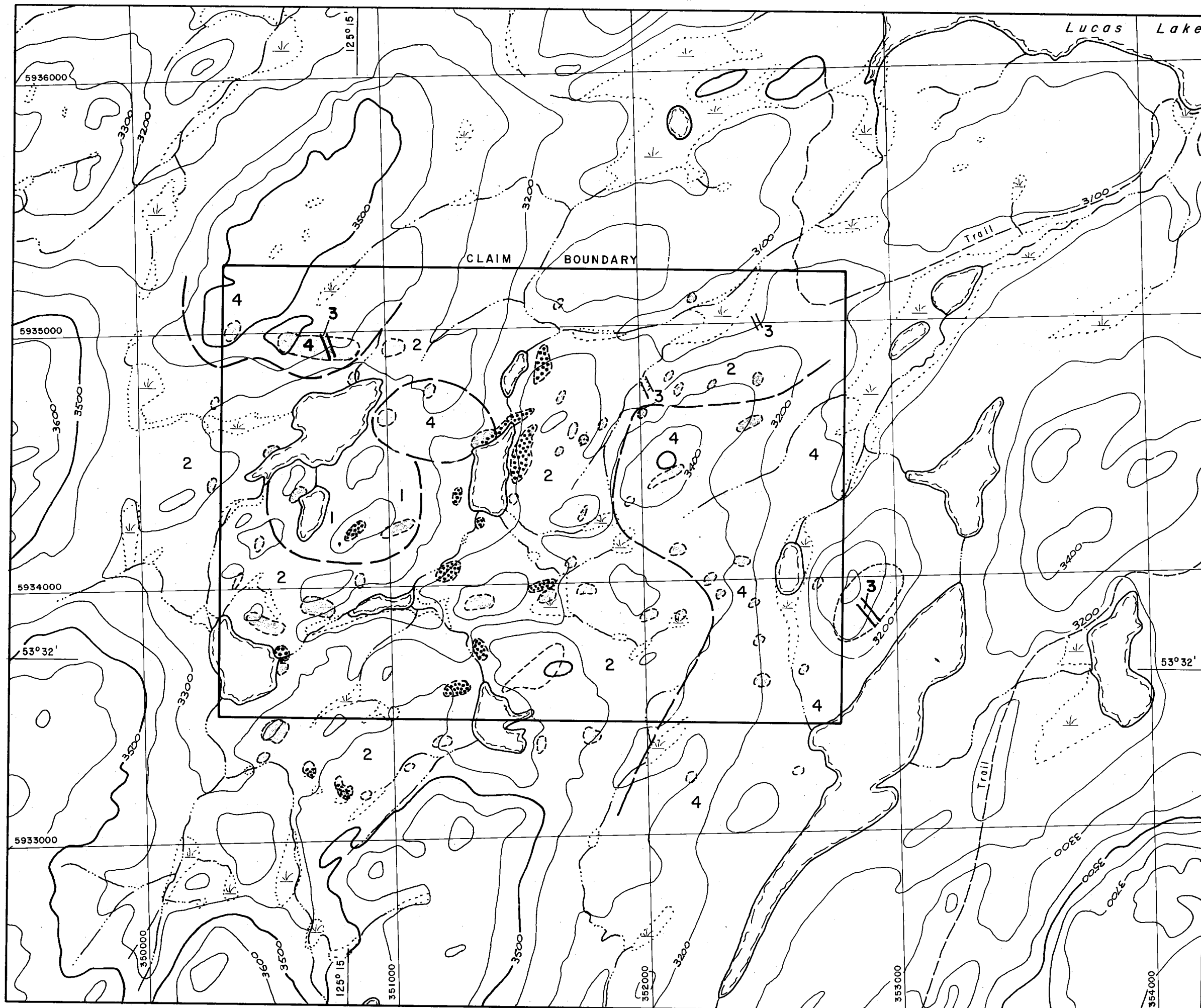
Appendix 3
Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, **Karl Schimann**, residing at 5442 Columbia Street, Vancouver, B.C., hereby states that:

1. I am the author of the report *Geology and Geochemistry, Lucas Property (Nechako Project), 1994, Omineca Mining Division.*
2. I have worked on the property from July to December 1994 for COGEMA Resources Inc. and supervised the work described in this report.
3. I graduated from the Université de Montréal with a B.Sc. in Geology in 1968.
4. I graduated from the University of Alberta with a Ph.D. in Geology in 1978.
5. I am a Fellow of the Geological Association of Canada.
6. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia



Karl Schimann
District Geologist



LEGEND

- 4 Lower Endako Group
Andesite, Basalt
- 3 Ootsa Lake Group
Rhyolite (dyke)
- 2 Kasalka Group
Feldspar Porphyry Andesite
- 1 Dacite
- Propylitization
- Outcrop Area
- Inferred contact

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

23,745

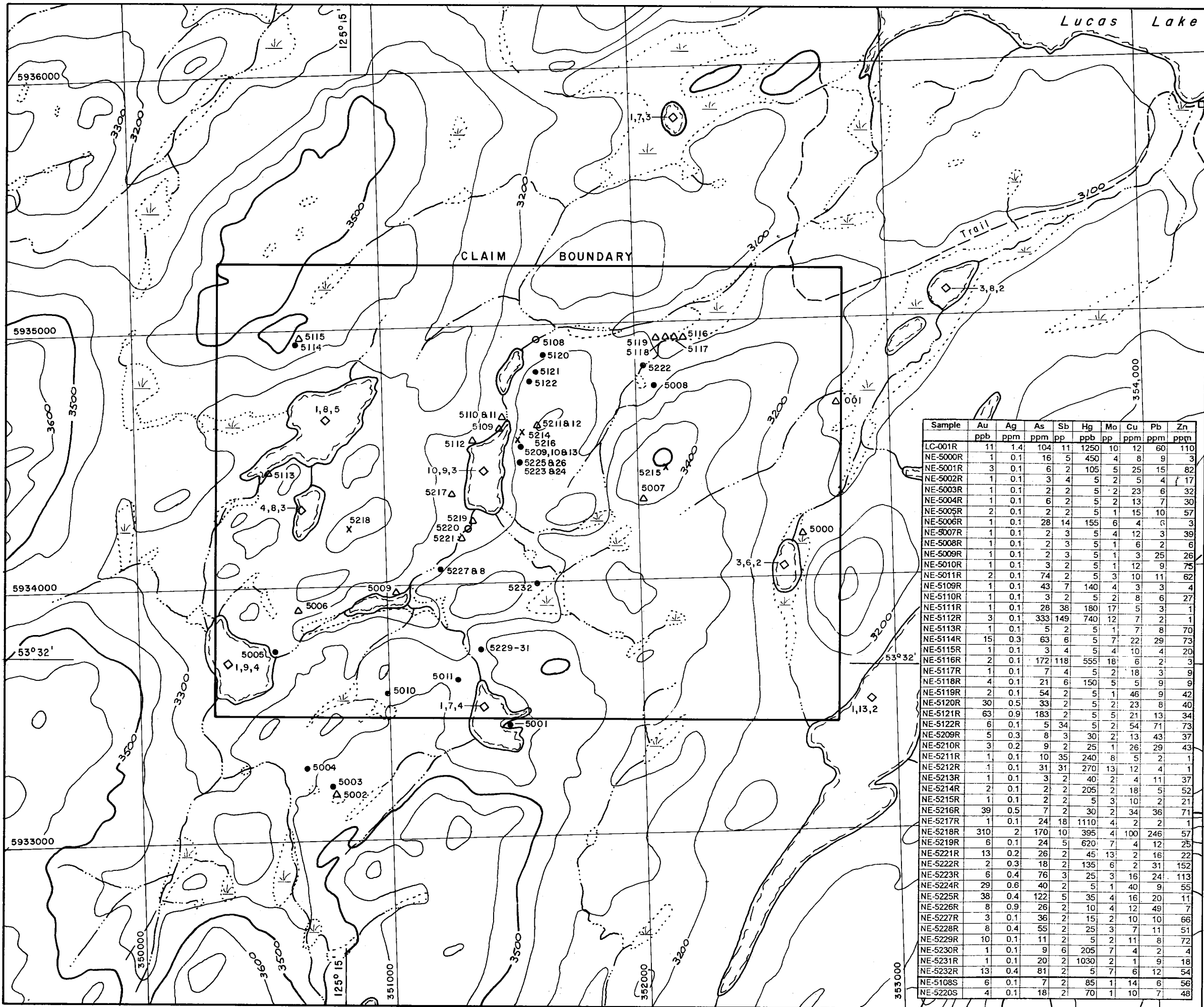


SCALE 1:15,000
0 500 1000
METRES

NECHAKO PROJECT

**LUCAS PROPERTY
GEOLOGY**

Compiled by : K.S.	Date : 09/94	Report no. : 94-CND-78-09
Drafted by : Alpha-2000 Drafting K.L.J.		Annex no. :
Base map :		MAP NO : 1
Revised by :		



LEGEND

ROCK SAMPLES

- Outcrop
- × Subcrop
- △ Float
- Silt Sample
- ◇ RGS - Lake sediment sample, Au ppb, As ppm, Sb ppm

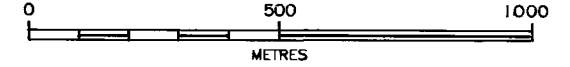
Sample	Au ppb	Ag ppm	As ppm	Sb pp	Hg ppb	Mo pp	Cu ppm	Pb ppm	Zn ppm
LC-001R	11	1.4	104	11	1250	10	12	60	110
NE-5000R	1	0.1	16	5	450	4	8	9	3
NE-5001R	3	0.1	6	2	105	5	25	15	82
NE-5002R	1	0.1	3	4	5	2	5	4	17
NE-5003R	1	0.1	2	2	5	2	23	6	32
NE-5004R	1	0.1	6	2	5	2	13	7	30
NE-5005R	2	0.1	2	2	5	1	15	10	57
NE-5006R	1	0.1	28	14	155	6	4	6	3
NE-5007R	1	0.1	2	3	5	4	12	3	39
NE-5008R	1	0.1	2	3	5	1	6	2	6
NE-5009R	1	0.1	2	3	5	1	3	25	26
NE-5010R	1	0.1	3	2	5	1	12	9	75
NE-5011R	2	0.1	74	2	5	3	10	11	62
NE-5109R	1	0.1	43	7	140	4	3	3	4
NE-5110R	1	0.1	3	2	5	2	8	6	27
NE-5111R	1	0.1	28	38	180	17	5	3	1
NE-5112R	3	0.1	333	149	740	12	7	2	1
NE-5113R	1	0.1	5	2	5	1	7	8	70
NE-5114R	15	0.3	63	6	5	7	22	29	73
NE-5115R	1	0.1	3	4	5	4	10	4	20
NE-5116R	2	0.1	172	118	555	18	6	2	3
NE-5117R	1	0.1	7	4	5	2	18	3	9
NE-5118R	4	0.1	21	6	150	5	5	9	9
NE-5119R	2	0.1	54	2	5	1	46	9	42
NE-5120R	30	0.5	33	2	5	2	23	8	40
NE-5121R	63	0.9	183	2	5	5	21	13	34
NE-5122R	6	0.1	5	34	5	2	54	71	73
NE-5209R	5	0.3	8	3	30	2	13	43	37
NE-5210R	3	0.2	9	2	25	1	26	29	43
NE-5211R	1	0.1	10	35	240	8	5	2	1
NE-5212R	1	0.1	31	31	270	13	12	4	1
NE-5213R	1	0.1	3	2	40	2	4	11	37
NE-5214R	2	0.1	2	2	205	2	18	5	52
NE-5215R	1	0.1	2	2	5	3	10	2	21
NE-5216R	39	0.5	7	2	30	2	34	36	71
NE-5217R	1	0.1	24	18	1110	4	2	2	1
NE-5218R	310	2	170	10	395	4	100	246	57
NE-5219R	6	0.1	24	5	620	7	4	12	25
NE-5221R	13	0.2	26	2	45	13	2	16	22
NE-5222R	2	0.3	18	2	135	6	2	31	152
NE-5223R	6	0.4	76	3	25	3	16	24	113
NE-5224R	29	0.6	40	2	5	1	40	9	55
NE-5225R	38	0.4	122	5	35	4	16	20	11
NE-5226R	8	0.9	26	2	10	4	12	49	7
NE-5227R	3	0.1	36	2	15	2	10	10	66
NE-5228R	8	0.4	55	2	25	3	7	11	51
NE-5229R	10	0.1	11	2	5	2	11	8	72
NE-5230R	1	0.1	9	6	205	7	4	2	4
NE-5231R	1	0.1	20	2	1030	2	1	9	18
NE-5232R	13	0.4	81	2	5	7	6	12	54
NE-5108S	6	0.1	7	2	85	1	14	6	56
NE-5220S	4	0.1	18	2	70	1	10	7	48

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

23,745



SCALE 1:15,000



NECHAKO PROJECT

**LUCAS PROPERTY
GEOCHEMISTRY**

Compiled by : K.S.	Date : 09/94	Report no. : 94-CND-78-09
Drafted by : Alpha-2000 Drafting K.L.J.	Annex no. :	
Base map :		MAP NO : 2
Revised by :		