

LOG NO:	NOV 25 1993	RD.
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**GEOLOGICAL AND GEOCHEMICAL
REPORT
ON THE
RED BLUFF PROPERTY**

**N.T.S.: 103P/11W
SKENA MINING DIVISION**

SUB-RECORDER RECEIVED
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VANCOUVER, B.C.

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**NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)**

REPORT BY: RICK KEMP

NOVEMBER, 1993

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

23,133

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1.0 PROGRAM OBJECTIVES

Between July 24, 1993 and August 1, 1993 mapping and soil geochemical surveys were completed on the Dak 11 and MB 2 claims. The purpose of the work was to characterize and delineate the style and extent of alteration/mineralization and associated copper-gold soil results related to an elongate north-south trending body of feldspar porphyry/microdiorite.

2.0 INTRODUCTION

2.1 Location, Access and Physiography

The property is located 10 km northeast of the townsite of Kitsault in the Kitsault River Valley (Figure 1). Access is currently gained by helicopter with bases located at Stewart and Meziadin, B.C. A cat road, constructed in 1966, crosses the property along the Dak River and could be upgraded to provide access to tidewater at Alice Arm at reasonable costs. The property lies within the rugged Boundary ranges of the Coast Mountains. Elevations on the property range from 500 to 3500 feet and most of the property can be traversed fairly easily. Vegetation consists of mature hemlock and balsam with numerous windfalls and areas of thick coastal undergrowth.

2.2 PREVIOUS WORK

The Alice Arm area has been actively prospected since the early 1900's with numerous occurrences located within a narrow north trending belt following the Kitsault River. Most of these deposits are structurally controlled silicified zones or quartz veins mineralized with one or more of silver, gold, copper, lead, zinc.

- | | |
|------------|-------------------------------------------------------------------------------------------------------------------|
| 1916: | Trenching, open adits, minimal drifting, 2 DDHs. |
| 1948: | Government geological mapping. |
| 1966-1968: | Northlodge Copper Mines Ltd. and Kennco Exploration Ltd. reconnaissance mapping, soil geochemistry, line cutting. |
| 1980-1983: | Amax Exploration Ltd. reconnaissance soil geochemistry and mapping. |
| 1992: | Noranda Exploration Company, Limited soil geochemistry, prospecting, mapping. |



REVISED	RED BLUFF	
	LOCATION MAP	
PROJ. No. 240	SURVEY BY: RK	DATE: Nov 1993
N.T.S. 1:103P11	DRAWN BY: RK	SCALE: 1:250,000
DWG. No.	NORANDA EXPLORATION	
1	OFFICE: Vancouver	

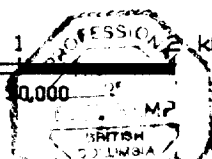
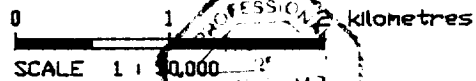
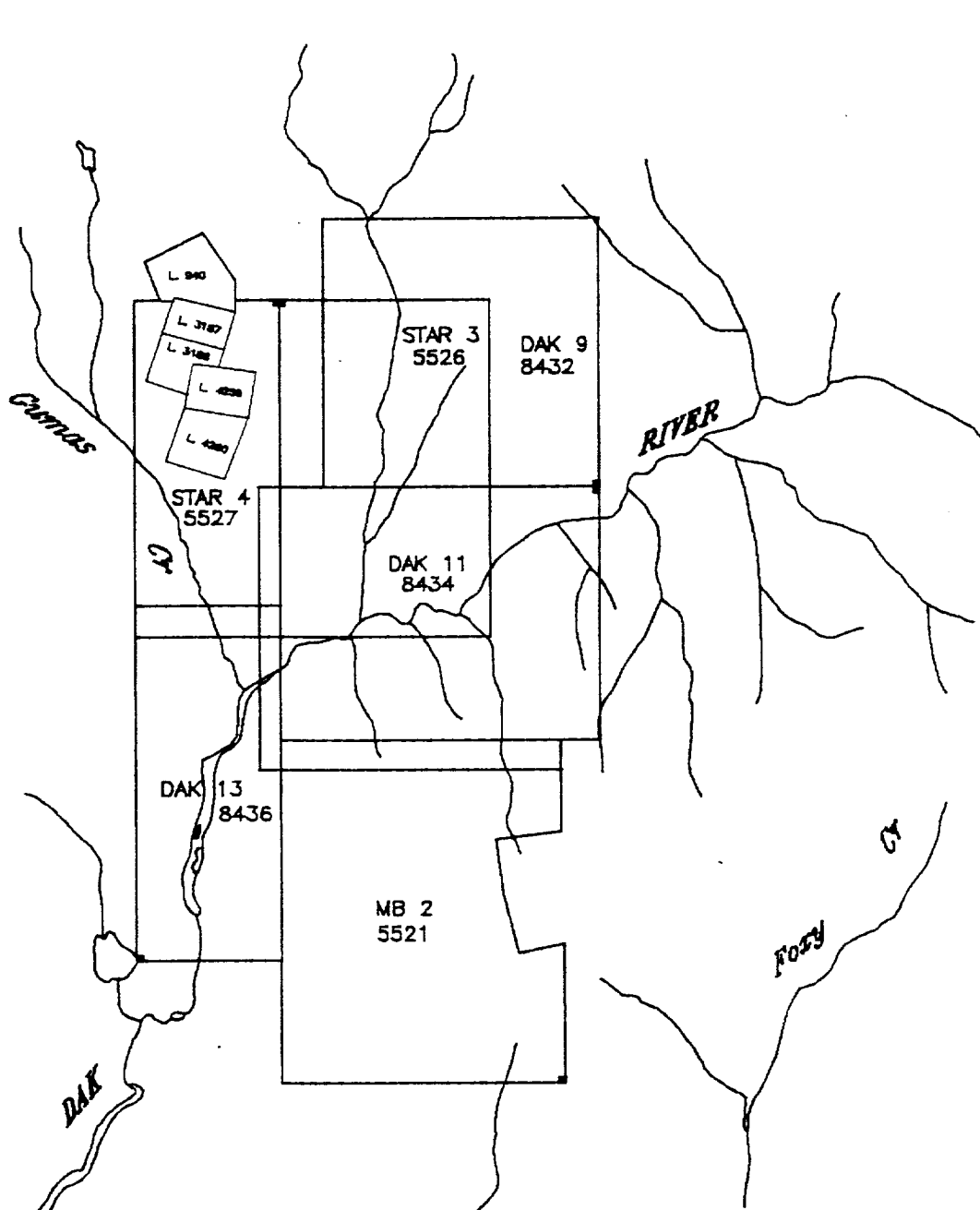
2.3 OWNER-OPERATOR

The Red Bluff property comprises 119 contiguous units of modified grid claims as shown in Figure 2 and listed below. The Hem claims were staked in 1992 for Hemlo Gold Mines Inc. and are not part of the Hemlo-Boyle option agreement. A Statement of Costs is provided in Appendix II.

2.4 CLAIM DATA

NAME	# UNITS	RECORD NO.	EXPIRY DATE
STAR 3	15	251519	SEPTEMBER 26, 1994 *
STAR 4	10	251520	SEPTEMBER 26, 1994 *
DAK 11	20	253639	AUGUST 22, 1994 *
DAK 13	10	253649	MARCH 01, 1994
MB 2	20	251516	SEPTEMBER 26, 1994 *
DEVIL'S CLUB	1	251507	SEPTEMBER 19, 1997
RED BLUFF	1	251508	SEPTEMBER 19, 1997
ALBION	1	251509	SEPTEMBER 19, 1997
SUNBEAM	1	251510	SEPTEMBER 19, 1997
SUB-COLLECTOR	1	253809	MARCH 22, 1998
HEM 1	20	310613	JUNE 24, 1994
HEM 2	15	310614	JUNE 24, 1994
STANDARD	1	251141	JANUARY 20, 1994
STANDARD NO. 1	1	251142	JANUARY 20, 1994
STANDARD NO. 2	1	251143	JANUARY 20, 1994
STANDARD NO. 3	1	251144	JANUARY 20, 1994

* The expiry dates as listed will be in effect upon approval of this work.



REVISED	RED BLUFF PROPERTY	
	Claim Map	
FILE NO.	DATE	BY
ORIG. No.	NORANDA EXPLORATION	
	OFFICE:	

Nov 1993

1 : 50,000

3.0 GEOLOGY

3.1 Regional Geology

The property lies at the margin between the Intermontaine Belt and the Coast Plutonic Belt. The region is underlain by sedimentary and volcanic rocks of the Jurassic Hazelton Group and associated intrusive rocks presumed to be Jurassic.

3.2 Property Geology

The property was mapped at 1:10,000 scale using flagged grid lines 100 to 200 m apart with stations every 25 m for control. The mapping was an extension (to the south) of the work conducted in 1992 by M. Savell.

The property is underlain by an elongate hornblende-feldspar diorite intrusion in fault contact with sediments and minor volcanics of the Hazelton Group. Unit descriptions are as follows:

Lithology

- Unit 1: Argillites, wackes (1a) and conglomerates (1b) of unit 1 crop out in the west and east portions of the property as small cliff forming units. Conglomerates and pebbly sandstones overly black argillites and contain chips and pebbles of argillite.
- Unit 2: Massive andesitic fine-grained rocks (flows?) crop out in one location (1993 mapping) as a small inconspicuous knob. Contact relations with of unit 1 are unclear.
- Unit 3: Blocky to locally strongly fractured diorite (microdiorite, feldspar porphyry, hornblende-feldspar porphyry) underlies the central portion of the property as a north-south intrusive body 100 to 500 m wide. The outer portion of the composite(?) intrusion is dominated by fresh feldspar porphyry.
- Unit 4: Late dykes, believed to be Tertiary, occur as narrow steeply east dipping bodies. The dykes have a diabasic texture, are black and feldspar phyrlic.

Structure

Structurally the microdiorite body is interpreted to be mainly in fault contact with the adjacent sediments and volcanics. North-northeast and north-northwest trending faults appear to control the distribution of the microdiorite. Later northwest trending faults appear to offset the microdiorite with sinistrial movement.

Alteration

Hydrothermal alteration was mainly observed within the microdiorite intrusive and the adjacent units near its contact. The core of the microdiorite intrusion is weakly to intensely altered to quartz-sericite-pyrite \pm carbonate assemblages and moderate to strong fracture densities (<1 fracture/10cm) whereas the outer margins are characterized by sericite-pyrite \pm quartz and weak to blocky fracture densities (>1 fracture/20cm).

Mineralization

The altered microdiorite body contains <1 to 8% disseminated pyrite in the rocks south of line 11300N (area mapped in 1993). Chalcopyrite was observed in one location (10100N; 11300E) where it occurs as fracture coating disseminations within a piece of angular float (sample 489-C a resample from 1992 sample 127-G). Savell (1992) provides descriptions of the Red Bluff, San Diego and Dak showings (north of the area investigated in 1993).

4.0 GEOCHEMISTRY

4.1 Soil Geochemistry

A compass chain and flagged grid was established to the south of the 1992 geochemical grid to better define the limits of anomalous copper-gold geochemistry.

A base line was established at 115 + 50E on L.101 + 00N orientated at 180° Az. Wing lines were established on 400 m centres with sample sites every 50 m. In addition to the southern grid extension, intermediate grid lines were established at a spacing of 200 m in an area south of the Dak River where anomalous Cu-Au results were returned from the 1992 soil survey. Pre-existing soil lines were extended to close off open-ended Cu-Au anomalies.

Soil samples were collected from the lower B to upper C soil horizon to depths of 90 centimetres with a mattock and placed in kraft soil bags. Sample preparation and analysis was completed at the Noranda Delta Laboratory. Analytical procedures described under Appendix I.

A total of 8.75 km of new grid was established in 1993 over which one hundred and thirty-four (134) B horizon soil samples and 3 silt samples were collected. Copper-gold soil results are plotted on Figures 4 and 5 with geochemical results attached under Appendix V.

Results of the 1993 geochemical survey, south of the Dak River, reflects a positive correlation between anomalous copper-gold results and the underlying altered and fault bounded microdiorite. The main Cu-Au zone measures 600 m wide and 1200 m long oriented in a north-south direction with best results reporting up to 3063 ppm Cu and 2200 ppb Au. Some down slope dispersion is suspected along the western edge of the main Cu-Au trend. Several multi-station, single line anomalies occur south of the main Cu-Au soil anomaly reflecting the southern extension of the main body of altered microdiorite.

4.2 Rock Geochemistry

A total of thirty-two (32) rocks were collected over the grid area and submitted for 28 element ICP analysis (see appendix III for analytical procedures). The purpose of the rock sampling was to detect significant or elevated concentrations of copper and gold. The altered pyritic microdiorite unit accounted for seventy-five percent of the samples.

Rock geochem results include copper values ranging from 13 to 9429 ppm with most values < 500 ppm and gold values ranging from 5 to 1600 ppb with most values < 100 ppb (see appendix IV & V for rock descriptions and results respectively).

5.0 CONCLUSIONS

Based on the work completed on the Red Bluff property south of the Dak river, the following conclusions can be made:

- 1) The "microdiorite" of unit 3a is highly altered at its core. Alteration consists of strong quartz-sericite-pyrite \pm carbonate zone flanked by a weaker sericite-pyrite \pm quartz zone.
- 2) The microdiorite intrusion is interpreted to be controlled and localized by north-northwest and north-northeast trending faults.
- 3) The alteration and mineralization within the microdiorite may be an expression of an outer pyritic shell - the upper portion of a deeper porphyry system.
- 4) Steep west-facing slopes (up to 55°) have enhanced the Cu and Au soil geochemical signatures south of the Dak River. It is believed concentrations have been elevated toward the base of the slope.

6.0 RECOMMENDATIONS

It is recommended a IP survey be carried out over the best mineralization and soil geochemistry. If warranted, two drill holes are proposed to test the near-surface potential of the property for a porphyry Cu-Au deposit.

7.0 REFERENCES

Savell, M., 1992. Geological and Geochemical Report on the Red Bluff Property. BC Assessment Report.

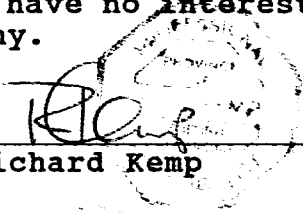
APPENDIX I

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Richard Kemp, of the City of Vancouver, Province of British Columbia, do hereby certify that:

- 1) I am a geologist, residing at #111 - 2455 York Avenue, Vancouver, B.C.
- 2) I am a graduate of the Haileybury School of Mines (1974) Mining Technician Diploma and hold a B.Sc. Geology degree from Lakehead University (1981).
- 3) I have worked in mineral exploration in Canada and internationally since 1974 as a mining technician and since 1981 as a geologist.
- 4) The work described in this report was conducted under my supervision and I have prepared this report based on the field observations of those contracted by Noranda Exploration Company, Limited.
- 5) I have been continuously employed by Noranda Exploration Company, Limited since 1982.
- 6) I have no interest in the property nor do I expect to receive any.


Richard Kemp

APPENDIX II

STATEMENT OF COSTS

Salaries:	7 days at \$375/day (R. Kemp)		
	7 days at \$325 (M.J. Gray)		
	(July 24th to August 1st)		
	Total:	\$	4900
Travel:	From Vancouver	\$	1400
	Helicopter	\$	3000
Food:	Camp Food	\$	500
Analysis:	Rocks- 32 at 13.50 ea		
	Soils-132 at 13.50 ea		
	Total:	\$	2214
Report:	Writing- 2 days at \$375/day		
	Drafting- 1 day at \$225/day		
	Typing- 1 day at \$150/day		
	Total:	\$	1125
		Grand Total	\$ 13139

APPENDIX III
ANALYTICAL PROCEDURES

ANALYTICAL PROCEDURE

Soils, Silts, Rocks

Samples are dried and screened to -80 mesh. Rock samples are pulverized to -120 mesh. A 0.2 gram sample is digested with 3 ml of $\text{HClO}_4/\text{HNO}_3$ (4 to 1 ratio) at 203°C for four hours, and diluted to 11 ml with water. A Leeman PS 3000 is used to determine elemental contents by I.C.P. Note that the major oxide elements and Ba, Be, Ce, Ga, La and Li are rarely dissolved completely from geological materials with this acid dissolution method.

For Au analyses, a 10.0 gram sample of -80 mesh material is digested with aqua regia and determination made by A.A.

Heavy Mineral Concentrates

The entire concentrate is digested in aqua regia solution, and elemental concentrations of Au, Ag, Cu, Pb, and Zn are determined by A.A.

APPENDIX IV
CERTIFICATES OF ANALYSIS

NORANDA DELTA LABORATORY

Geochemical Analysis

Project Name & No.: RED BLUFF - 181
 Material: 3 Silts, 146 Soils & 41 Rx
 Remarks: * Sample screened @ -35 MESH (0.5 mm)
 † Organic, Δ Humus, S Sulfide

Geol.: R.K.
 Sheet: 1 of 5

Date received: AUG. 06
 Date completed: AUG. 25

LAB CODE: 9308-010

Au - 10.0 g sample digested with aqua-regia and determined by A.A. (D.L. 5 PPB)

ICP - 0.2 g sample digested with 3 ml HClO₄/HNO₃ (4:1) at 203 °C for 4 hours diluted to 10 ml with water. Leeman PS3000 ICP determined elemental contents.

N.B. The major oxide elements and Ba, Be, Ce, La, Li, Ga are rarely dissolved completely from geological materials with this acid dissolution method.

T.T. No.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
3	8100N-11500E BC	15	0.2	5.63	7	140	0.9	5	0.06	0.2	24	8	37	83	7.38	0.20	12	36	0.26	228	3	0.03	14	0.09	2	8	0.12	168	159
4	11550 B	40	0.4	6.27	12	418	0.4	5	0.05	0.2	17	6	22	197	6.89	0.75	9	18	0.63	457	12	0.02	7	0.11	5	10	0.09	177	58
5	11600 B	10	1.6	8.28	83	946	1.1	5	0.04	0.2	33	18	5	91	7.38	1.45	12	44	0.86	543	1	0.03	6	0.14	11	7	0.05	181	153
6	11650 B	5	0.4	4.30	19	416	0.4	5	0.71	0.2	35	6	71	45	6.63	0.52	13	37	0.59	243	2	0.03	19	0.08	5	41	0.15	190	112
7	8100N-11650E Dup? B	5	0.2	3.28	18	543	0.5	5	1.98	0.6	43	12	15	76	3.31	0.59	16	49	0.63	1871	1	0.04	11	0.14	15	85	0.09	123	172
8	8100N-11700E B	5	0.4	5.88	23	531	1.1	5	0.26	0.3	48	17	25	77	4.99	0.29	26	87	0.77	1648	1	0.04	16	0.17	14	26	0.20	157	154
9	8100N-11750E B	5	0.2	4.25	36	305	0.7	5	0.28	0.4	35	22	14	108	7.13	0.25	16	59	1.31	1648	6	0.04	8	0.12	19	16	0.17	240	181
10	8420N-11650E B	120	1.2	3.94	38	1463	0.3	5	0.09	0.2	40	5	2	81	9.44	1.43	23	4	0.30	162	8	0.04	1	0.40	41	26	0.03	80	90
11	8500N-11500E B	35	0.2	4.34	24	456	0.8	5	0.24	0.5	39	18	64	177	4.47	0.75	20	43	1.05	739	1	0.03	48	0.10	7	25	0.09	136	191
12	8500N-11550E B	140	0.4	5.19	30	1061	0.7	5	1.02	0.2	49	19	19	2922	6.69	1.29	27	32	0.81	880	27	0.04	17	0.15	12	52	0.06	172	158
13	8500N-11600E B	310	0.8	5.68	62	819	0.3	5	0.08	0.2	20	7	5	509	9.41	1.17	12	11	0.48	287	11	0.02	3	0.12	14	7	0.05	206	57
14	11650 B	700	3.6	6.60	99	743	0.6	5	0.05	0.3	25	24	7	1903	9.98	1.02	13	39	0.70	748	11	0.02	4	0.20	57	5	0.05	207	119
15	11700 B	70	1.2	9.16	42	1057	1.0	10	0.02	0.5	33	18	11	306	13.51	1.35	22	30	0.40	502	6	0.03	9	0.20	17	4	0.05	199	191
16	11750 B	5	0.8	9.87	69	1364	0.8	5	0.04	0.3	28	14	7	49	8.28	1.43	12	33	0.59	676	1	0.05	6	0.17	16	10	0.09	241	474
17	8500N-11800E B	35	1.6	6.76	738	103	0.9	40	0.02	1.1	24	15	52	51	15.31	0.14	13	27	0.19	549	3	0.01	10	0.15	57	4	0.07	180	160
18	8500N-11850E B	5	0.2	7.00	11	581	0.6	5	0.10	0.2	26	12	19	129	7.61	0.51	14	71	1.20	586	1	0.03	9	0.11	5	9	0.14	347	120
19	8900N-11350E B	25	0.2	4.40	26	243	0.3	5	0.07	0.2	29	5	69	82	6.26	0.51	13	17	0.48	164	2	0.03	18	0.11	5	17	0.17	218	82
20	11400 B	15	1.4	6.46	29	254	0.8	5	0.06	0.4	36	10	76	137	7.09	0.51	15	33	0.73	275	1	0.03	40	0.15	14	14	0.13	166	153
21	11450 B	5	0.6	3.87	13	128	0.4	5	0.05	0.2	18	9	45	70	7.45	0.23	9	20	0.60	282	2	0.02	8	0.09	2	6	0.10	288	82
22	8900N-11500E B	35	0.2	6.75	12	308	0.4	5	0.05	0.2	17	5	41	137	6.64	0.43	9	33	0.46	223	3	0.02	13	0.14	6	12	0.11	150	85
23	8900N-11530E	30	0.2	5.27	21	653	0.7	5	0.85	0.5	42	20	36	195	4.60	1.59	17	40	0.86	1847	1	0.04	33	0.14	8	48	0.08	152	180
24	11550 *A	10	1.0	1.95	6	100	0.2	5	0.07	0.2	14	1	12	50	1.55	0.14	5	3	0.05	32	1	0.01	4	0.12	4	10	0.05	29	39
25	11600 B	5	0.8	4.11	17	148	0.3	5	0.05	0.2	22	4	52	39	6.10	0.27	11	17	0.25	130	1	0.02	5	0.08	2	11	0.18	245	70
26	11650 B	80	1.0	6.32	42	1088	0.4	5	0.05	0.2	21	5	4	260	9.70	0.96	12	9	0.40	630	47	0.03	2	0.29	8	8	0.04	172	41
27	8900N-11700E B	160	2.2	5.95	60	734	0.4	5	0.02	0.2	26	4	15	125	11.67	0.99	14	8	0.26	242	10	0.06	5	0.26	15	21	0.06	128	63
28	8900N-11850E B	5	0.4	5.41	23	389	0.7	5	0.32	0.7	39	20	45	108	5.91	0.79	15	65	0.76	1090	3	0.04	22	0.14	11	24	0.13	197	124
29	11900 B	5	0.6	5.00	28	516	0.4	5	0.05	0.2	25	6	52	59	7.91	0.77	11	48	0.22	214	2	0.04	11	0.12	27	10	0.10	134	108
30	11950 B	5	0.6	5.65	17	298	0.5	5	0.03	0.2	25	7	62	69	6.50	0.52	12	44	0.44	157	2	0.03	15	0.08	7	8	0.14	220	88
31	12000 B	5	0.6	4.17	13	93	0.2	5	0.03	0.2	14	6	10	83	5.44	0.20	9	11	0.27	123	1	0.02	1	0.08	2	7	0.10	314	46
32	8900N-12050E B	5	0.4	7.02	9	247	0.9	5	0.06	0.2	19	15	14	187	9.70	0.41	13	94	0.56	976	1	0.02	3	0.16	3	9	0.09	379	120
33	9165N-11550E silt	15	0.2	5.56	25	674	0.7	5	0.77	0.5	41	20	25	217	4.84	1.63	17	43	0.96	1665	1	0.05	29	0.14	9	48	0.09	167	186
34	9300N-11550E B	10	0.8	5.52	27	267	0.5	5	0.05	0.2	29	7	90	81	8.54	0.50	14	27	0.50	304	3	0.03	18	0.15	8	14	0.15	214	102
35	11600 B	15	0.2	7.77	14	249	0.7	5	0.09	0.2	27	8	47	134	7.23	0.43	13	38	0.43	261	1	0.03	21	0.14	9	11	0.12	123	118
36	11650 B	5	0.4	4.98	17	317	0.3	5	0.06	0.2	26	5	69	40	6.80	0.60	14	9	0.39	159	3	0.03	9	0.16	6	14	0.25	259	68
37	9300N-11675E B	185	4.4	7.23	224	528	0.6	5	0.06	0.2	25	6	27	109	8.24	0.67	13	31	0.35	321	4	0.03	6	0.19	22	11	0.09	195	127

26/08 G.P

T.T. No.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm	8308-008 Pg. 2 of 5
38	9300N-11700E B	15	0.8	4.39	28	279	0.3	5	0.14	0.2	23	4	41	53	8.03	0.43	12	11	0.25	141	5	0.03	6	0.13	6	17	0.14	202	69	
39	11800 B	5	0.2	8.43	23	127	0.6	5	0.21	0.3	21	3	6	18	4.60	0.15	7	10	0.14	139	1	0.03	1	0.35	4	31	0.17	185	61	
40	11850 B	5	0.2	7.43	69	867	0.3	5	0.03	0.2	16	5	3	33	5.35	1.29	8	6	0.35	139	1	0.07	1	0.13	2	25	0.13	219	37	
41	11900 B	220	0.2	5.52	35	746	0.5	5	0.03	0.2	16	8	16	474	7.50	0.98	10	23	0.56	639	21	0.04	6	0.14	8	9	0.07	175	54	
42	9300N-11950E B	5	0.4	5.30	112	361	0.3	5	0.04	0.2	18	4	35	39	6.10	0.54	10	8	0.23	114	1	0.05	7	0.09	12	23	0.09	236	72	
43	9300N-12000E *B	5	1.2	3.59	11	453	0.2	5	0.04	0.2	19	3	33	24	2.41	0.75	8	4	0.20	95	1	0.04	6	0.07	4	16	0.09	139	34	
44	9300N-12050E B	5	1.2	5.10	20	280	0.6	5	0.07	0.2	37	15	65	58	5.83	0.61	15	31	0.67	628	2	0.03	24	0.18	10	11	0.13	144	130	
45	9700N-11510E B	55	0.8	7.08	42	1012	0.5	5	0.10	0.2	23	8	5	122	6.27	1.28	12	19	0.64	326	5	0.03	4	0.12	6	16	0.06	192	64	
46	11550 B	75	0.8	4.73	47	600	0.4	5	0.88	0.2	41	11	5	139	5.76	0.48	15	21	0.51	2741	3	0.03	3	0.22	12	176	0.14	182	71	
47	9700N-11600E B	230	0.6	7.35	223	1035	0.9	8	0.34	1.6	63	30	4	380	7.63	1.87	25	28	1.06	3444	9	0.03	6	0.22	28	34	0.17	178	393	
48	9700N-11650E B	15	0.2	6.49	72	517	0.4	5	0.07	0.2	22	8	16	131	5.07	0.82	10	20	0.47	210	1	0.05	7	0.11	7	18	0.19	230	73	
51	11700 B	5	2.0	5.86	16	511	0.4	5	0.06	0.2	17	6	11	60	8.60	0.44	9	31	0.27	307	1	0.02	2	0.11	51	9	0.24	214	285	
52	11750 B	5	0.2	3.21	4	290	0.2	5	0.08	0.2	14	4	15	20	1.41	0.32	6	5	0.23	125	1	0.03	2	0.07	3	10	0.36	194	39	
53	11800 B	10	1.2	5.53	2	586	0.3	5	0.02	0.2	13	4	5	42	6.39	0.61	7	16	0.40	254	1	0.03	1	0.13	3	8	0.09	278	63	
54	9700N-11850E B	5	0.8	7.48	2	1032	0.3	5	0.01	0.2	13	3	2	21	4.12	1.83	7	3	0.23	151	1	0.06	1	0.15	2	16	0.08	261	40	
55	9700N-11900E A	5	0.6	5.69	4	592	1.5	5	0.72	0.3	125	15	21	42	6.01	0.66	40	41	0.58	6065	5	0.11	14	0.25	15	31	0.24	109	234	
56	11950 *C	5	0.2	3.64	4	342	0.2	5	0.08	0.2	22	4	114	28	1.96	0.65	10	5	0.32	89	1	0.02	10	0.07	2	6	0.15	158	41	
57	12000 B	5	0.2	3.79	14	119	0.2	5	0.02	0.2	17	3	67	40	10.34	0.26	8	14	0.33	191	1	0.02	11	0.11	9	6	0.15	179	63	
58	12050 B	5	0.4	2.89	5	114	0.3	5	0.06	0.2	20	3	29	33	5.00	0.23	10	11	0.24	196	1	0.02	2	0.13	3	7	0.13	253	43	
59	9700N-12100E B	5	0.4	5.04	12	166	0.5	5	0.05	0.2	24	6	74	53	6.58	0.39	12	32	0.34	154	1	0.03	15	0.11	9	7	0.14	165	80	
60	9700N-12150E B	5	0.6	4.53	12	147	0.5	5	0.05	0.2	36	13	58	71	5.90	0.35	16	24	0.41	520	1	0.03	15	0.16	11	6	0.16	159	81	
61	12200 B	5	0.2	4.22	7	192	0.3	5	0.04	0.2	17	4	59	47	8.32	0.44	12	21	0.51	364	1	0.02	14	0.11	2	10	0.14	176	63	
62	9700N-12250E *B	10	0.4	2.37	6	150	0.2	5	0.05	0.2	19	4	41	59	1.03	0.56	11	3	0.22	52	1	0.02	5	0.07	2	9	0.11	109	58	
63	9800N-11350 B	15	0.8	5.00	6	285	0.6	5	0.12	0.2	25	7	85	78	6.20	0.36	13	43	0.54	254	2	0.03	22	0.11	2	20	0.16	177	142	
64	9800N-11400 B	5	0.2	5.18	7	103	0.5	5	0.04	0.2	28	6	55	55	9.39	0.22	16	33	0.35	299	3	0.03	12	0.14	5	6	0.15	232	149	
65	9800N-11450 A	15	0.2	4.80	13	213	0.3	5	0.07	0.2	25	5	57	85	5.98	0.44	11	21	0.54	196	1	0.03	14	0.07	4	17	0.15	143	60	
66	11500 *B	20	0.2	4.31	17	193	0.2	5	0.04	0.2	15	2	53	68	8.81	0.53	8	9	0.33	77	3	0.03	5	0.08	2	12	0.17	237	57	
67	9800N-11550E	75	0.2	4.33	27	1129	0.5	5	1.11	1.1	40	16	13	737	5.20	1.29	16	24	0.74	1594	9	0.04	14	0.14	14	53	0.08	139	263	
68	10100N-11800E B	15	0.2	4.20	11	197	0.3	5	0.04	0.2	19	6	80	48	6.48	0.36	11	29	0.62	293	2	0.03	25	0.08	5	12	0.12	121	79	
69	10100N-11850E B	5	0.8	5.91	6	631	0.3	5	0.12	0.2	22	3	8	31	3.49	0.97	11	5	0.25	126	2	0.03	4	0.09	3	9	0.10	187	63	
70	10100N-11900E B	5	0.2	5.97	16	124	0.4	5	0.02	0.2	24	5	21	44	11.33	0.23	15	20	0.22	272	4	0.02	3	0.21	5	4	0.16	299	77	
71	11950 B	5	0.2	1.18	3	88	0.2	5	0.02	0.2	23	2	21	9	0.71	0.19	16	3	0.09	51	1	0.02	1	0.03	2	8	0.09	52	18	
72	12000 B	5	0.2	5.39	2	196	0.4	5	0.09	0.2	25	9	67	55	5.13	0.40	11	43	0.62	342	1	0.03	21	0.08	2	13	0.16	149	95	
73	12050 B	5	0.2	5.61	2	190	1.1	5	0.03	0.2	80	42	45	160	6.64	0.38	36	60	1.31	935	1	0.03	27	0.10	4	5	0.06	199	156	
74	10100N-12100E B	5	0.2	4.01	2	123	0.2	5	0.03	0.2	26	4	95	65	7.87	0.27	18	10	0.30	155	1	0.03	5	0.08	2	8	0.15	410	60	
75	10100N-12150E B	5	0.2	3.20	7	77	0.2	5	0.09	0.2	16	3	84	48	7.98	0.23	9	10	0.24	103	2	0.03	6	0.08	2	7	0.19	212	51	
76	12200 B	5	0.2	4.76	5	223	0.4	5	0.05	0.2	20	4	51	55	7.02	0.52	12	12	0.41	187	1	0.03	8	0.10	2	7	0.13	225	68	
77	12250 B	10	0.2	3.79	12	283	0.4	5	0.95	0.2	35	14	49	73	5.18	0.58	12	31	0.72	669	1	0.03	21	0.10	7	44	0.12	135	97	
78	12300 *A	5	0.8	4.95	6	357	1.3	5	0.95	0.3	103	33	70	72	5.51	0.57	33	54	0.78	3623	2	0.03	28	0.26	13	47	0.08	152	145	
79	10100N-12350E A	5	0.2	2.63	7	211	0.4	5	0.77	0.2	36	13	107	41	3.36	0.42	12	33	0.75	1329	2	0.03	29	0.10	5	36	0.13	110	71	
80	10500N-11750E B	20	1.4	5.25	39	302	0.2	5	0.03	0.2	18	5	26	42	8.06	0.48	10	10	0.42	200	1	0.02	4	0.09	31	9	0.19	253	63	
81	11800 B	5	1.8	5.02	5	136	0.4	5	0.04	0.2	14	4	58	45	7.59	0.25	9	23	0.24	164	1	0.02	6	0.08	2	13	0.22	193	65	
82	11850 B	5	0.4	4.41	2	205	0.2	5	0.04	0.2	12	2	5	27	1.87	0.44	8	5	0.28	112	1	0.02	2	0.06	7	5	0.06	156	59	
83	11900 B	5	0.2	4.40	12	362	0.5	5	1.24	0.2	46	9	28	62	5.38	0.36	15	50	0.39	516	2	0.03	6	0.07	2	51	0.09	198	134	
84	10500N-11950E B	5	0.2	3.82	2	208	0.2	5	0.03	0.2	14	3	11	16	2.08	0.45	9	3	0.21	71	1	0.02	1	0.04	2	9	0.10	159	34	

T.T. No.	SAMPLE No.	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm	9308-008 Pg. 3 of 5
85	10500N-1200E B	5	0.2	5.47	13	295	0.7	5	0.11	0.2	25	12	74	120	5.79	0.52	13	41	0.81	405	1	0.03	36	0.07	5	18	0.14	156	151	
86	12050 B	5	0.8	5.63	13	190	0.4	5	0.04	0.2	18	5	86	61	8.41	0.40	10	34	0.53	201	1	0.02	15	0.08	7	13	0.13	178	103	
87	12100 B	5	0.2	3.47	4	123	0.3	5	0.05	0.2	18	2	39	17	10.66	0.15	10	10	0.20	389	2	0.02	3	0.13	2	13	0.65	273	63	
88	12150 B	5	0.2	3.17	2	153	0.2	5	0.24	0.2	27	4	32	33	3.53	0.27	13	12	0.32	424	1	0.04	4	0.11	2	16	0.18	179	62	
89	10500N-12200E A	5	0.6	2.71	7	100	0.2	5	0.05	0.2	15	3	94	31	6.47	0.10	7	8	0.20	225	1	0.03	6	0.11	2	10	0.17	244	44	
90	10700N-11100E B	5	1.0	6.15	13	237	0.8	5	1.19	0.3	56	14	31	154	4.28	0.45	15	42	0.67	477	2	0.04	50	0.14	5	78	0.13	107	159	
91	11150 B	5	0.8	5.54	9	224	1.3	5	0.09	0.2	56	29	62	102	6.71	0.44	20	37	0.56	1473	2	0.03	36	0.26	10	9	0.20	153	211	
92	11200 B	5	0.2	3.25	14	101	0.6	5	0.20	0.2	22	4	66	41	6.45	0.15	11	27	0.30	233	1	0.03	6	0.23	4	8	0.35	226	77	
93	11250 *	5	0.4	4.58	15	599	0.9	5	0.49	0.2	46	30	53	130	5.08	1.26	24	29	1.53	1070	1	0.03	80	0.16	14	21	0.16	139	145	
94	10700N-11300E B	470	1.6	5.90	26	490	0.5	5	0.17	0.2	26	4	5	381	9.77	0.78	14	21	0.64	335	17	0.08	1	0.43	17	59	0.16	145	50	
95	10700N-11350E B	430	2.8	5.17	27	649	0.5	5	0.37	0.2	34	13	5	492	9.31	0.86	17	23	0.84	1211	45	0.06	1	0.48	23	58	0.17	141	74	
96	11400 B	2200	1.6	4.29	104	1010	0.3	5	0.21	0.2	32	5	6	355	12.29	1.04	18	17	0.90	329	22	0.05	1	0.36	34	51	0.17	178	59	
97	10700N-11450E B	670	1.0	6.00	60	457	0.5	5	0.19	0.2	44	14	4	301	11.78	1.33	28	29	1.18	434	8	0.09	2	0.20	6	54	0.17	170	62	
98	10630N-11500E B	130	0.6	7.65	2	100	0.5	5	0.08	0.2	26	4	32	100	7.68	0.16	12	16	0.16	215	10	0.05	4	0.17	9	15	0.15	85	119	
101	10630N-11550E B	350	1.0	5.44	7	192	0.4	5	0.17	0.2	18	3	18	332	12.15	0.21	11	14	0.32	113	86	0.02	2	0.20	2	60	0.31	304	48	
102	10630N-11600E B	35	0.2	6.51	22	198	0.6	5	0.05	0.2	16	7	71	151	9.90	0.33	9	41	0.41	239	8	0.02	17	0.44	7	13	0.13	189	126	
103	11650 B	710	0.8	5.13	73	3326	0.9	5	0.62	0.3	46	35	4	587	11.04	1.80	26	25	1.48	1124	2	0.03	6	0.13	11	60	0.05	172	129	
104	10630N-11700E B	15	0.6	4.52	6	2981	0.2	5	0.26	0.2	23	3	8	32	5.98	0.39	11	10	0.33	86	12	0.05	1	0.08	2	44	0.28	195	35	
105	10700N-11750E *B	85	0.6	7.07	27	78	0.6	5	0.16	0.2	20	7	11	64	5.51	0.07	7	11	0.25	232	1	0.02	1	0.13	6	21	0.14	190	58	
106	10700N-11800E B	10	0.4	6.71	13	243	0.7	5	0.07	0.2	30	25	17	45	6.90	0.25	13	40	0.27	677	5	0.02	4	0.09	7	13	0.12	169	203	
107	10700N-11850E C	30	0.2	4.32	2	507	0.2	5	0.26	0.2	27	1	8	6	1.57	0.65	14	3	0.25	92	1	0.03	1	0.03	2	82	0.29	162	26	
108	11900 B	5	0.2	3.68	11	160	0.2	5	0.15	0.2	20	3	40	35	5.21	0.27	10	13	0.25	139	1	0.03	3	0.09	3	34	0.19	203	57	
109	11950 B	5	0.4	5.71	18	515	0.9	5	0.16	0.3	34	14	18	56	6.47	0.38	17	66	0.29	979	2	0.03	6	0.29	29	9	0.20	207	248	
110	12050 *A	5	0.2	0.27	2	65	0.2	5	0.34	0.2	15	1	3	14	0.33	0.05	3	2	0.04	50	1	0.02	1	0.05	2	12	0.03	12	50	
111	10700N-12100E *C	5	0.2	3.52	5	140	0.3	5	0.08	0.2	13	6	54	37	3.93	0.45	8	6	0.26	90	1	0.02	7	0.06	2	11	0.17	263	48	
112	10700N-12150E B	5	0.2	4.04	14	215	0.5	5	0.49	0.2	26	23	61	54	9.27	0.29	11	42	0.67	1027	2	0.03	14	0.10	2	20	0.16	254	123	
113	10700N-12200E A	5	0.2	4.94	2	229	1.4	5	0.36	0.2	64	29	92	38	7.88	0.15	29	42	0.35	792	2	0.02	14	0.11	11	19	0.19	198	181	
114	10840N-11700E B	35	0.2	6.26	7	68	0.6	5	0.49	0.2	28	17	30	149	6.84	0.06	9	17	1.54	451	1	0.11	22	0.15	3	39	0.43	159	149	
115	11750 B	10	1.2	8.44	4	263	0.5	5	0.09	0.2	21	6	37	236	7.42	0.34	11	35	0.59	238	2	0.03	20	0.10	2	21	0.17	169	95	
116	10840N-11800E B	90	0.6	4.98	8	242	0.4	5	0.57	0.2	41	1	43	32	7.80	0.16	17	26	0.28	216	3	0.06	2	0.14	16	86	0.61	291	93	
117	10840N-11900E B	5	3.0	4.18	5	254	0.2	5	0.07	0.2	18	5	6	50	5.02	0.37	9	11	0.30	116	1	0.03	1	0.07	3	21	0.09	256	50	
118	11950 C	5	0.2	5.92	2	622	0.2	5	0.24	0.2	27	3	11	21	4.40	0.89	13	8	0.35	166	1	0.03	1	0.09	2	78	0.16	233	35	
119	12000 B	5	0.4	4.09	11	222	0.4	5	0.08	0.2	27	6	49	88	5.52	0.46	11	25	0.60	204	1	0.03	14	0.07	3	19	0.15	166	86	
120	12050 B	5	0.8	4.02	8	123	0.5	5	0.06	0.2	32	3	23	36	5.70	0.17	16	24	0.22	231	2	0.03	2	0.17	2	9	0.13	219	77	
121	10840N-12100E	5	0.2	5.40	5	335	0.8	5	0.33	0.2	42	21	67	115	6.48	0.79	20	55	1.44	644	1	0.04	36	0.13	5	46	0.22	223	120	
122	10840N-12150E *	5	0.6	3.89	29	291	1.1	5	2.66	0.2	62	23	75	83	6.64	0.18	27	47	0.57	1622	2	0.04	19	0.22	7	75	0.12	184	159	
123	10840N-12200E	5	0.2	4.31	10	175	0.7	5	0.49	0.2	52	9	69	42	7.57	0.21	15	29	0.51	591	3	0.05	11	0.10	5	21	0.39	210	105	
124	11100N-11200E B	10	0.8	5.48	25	449	0.7	5	0.65	0.4	45	22	59	236	5.81	0.73	16	53	0.98	1298	25	0.04	48	0.10	7	36	0.16	162	215	
125	11250 B	30	1.0	4.78	17	345	0.7	5	0.13	0.2	32	14	44	311	5.85	0.53	15	35	0.73	990	27	0.04	22	0.13	8	21	0.16	176	151	
126	11100N-11300E B	5	0.4	4.70	9	364	0.6	5	0.27	0.2	31	15	47	275	5.48	0.51	15	25	0.87	666	20	0.04	24	0.09	6	22	0.14	168	126	
127	11100N-11350E B	20	0.6	3.92	32	541	0.7	5	0.76	0.5	46	21	44	220	5.58	1.00	20	25	1.16	1624	45	0.06	40	0.15	11	47	0.15	165	159	
128	11400 B	25	0.6	5.09	25	355	0.8	5	0.76	0.2	55	22	44	602	5.30	0.52	17	52	0.64	296	32	0.04	28	0.08	13	43	0.18	176	177	
129	11450 B	350	0.4	7.13	2	218	1.2	5	0.31	0.2	64	39	20	3063	7.01	0.33	27	25	0.38	1169	35	0.03	11	0.23	4	45	0.16	131	101	
130	11500 B	330	0.8	5.89	2	395	0.6	5	0.54	0.2	39	13	6	700	7.07	0.47	16	25	0.52	605	7	0.03	1	0.19	3	124	0.22	228	56	
131	11100N-11550E B	580	0.6	3.49	9	158	0.4	5	0.38	0.2	30	8	8	299	7.97	0.21	16	17	0.37	182	6	0.03	1	0.18	7	116	0.31	327	40	

T.T. No.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bc ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm	9308-008 Pg. 4 of 5
132	11100N-11600E B	340	1.2	5.09	11	406	0.3	5	0.17	0.2	18	3	5	371	6.12	0.53	9	20	0.29	128	18	0.02	1	0.27	2	49	0.12	266	49	
133	11650 B	580	1.0	4.12	15	477	0.5	5	0.35	0.2	27	18	13	1320	9.40	0.46	12	24	0.52	751	38	0.03	2	0.38	2	73	0.15	245	53	
134	11700 B	140	0.6	5.02	14	652	0.4	5	0.49	0.2	31	15	12	309	6.41	0.56	12	31	0.37	1196	8	0.03	9	0.28	2	85	0.09	217	67	
135	11750 B	210	2.4	4.18	45	630	0.4	5	0.25	0.2	26	10	7	181	6.48	0.39	11	18	0.38	995	6	0.03	2	0.24	2	56	0.07	220	59	
136	11100N-11800E B	160	1.0	7.14	107	407	0.8	5	0.09	0.2	30	23	23	319	9.89	0.51	14	38	0.51	430	21	0.04	9	0.15	13	9	0.13	207	181	
137	11100N-11850E B	90	3.6	5.97	276	390	0.6	5	0.04	0.2	32	11	53	135	7.51	0.63	16	41	0.45	341	3	0.03	24	0.11	29	10	0.13	172	166	
138	11900 B	5	0.4	5.13	6	95	0.5	5	0.30	0.2	29	6	40	28	6.97	0.10	11	23	0.57	231	1	0.07	10	0.09	2	26	0.31	167	133	
139	11950 B	5	0.4	7.41	2	639	0.6	5	0.11	0.2	22	11	5	146	9.34	0.77	10	37	0.77	674	1	0.02	1	0.11	189	8	0.07	294	296	
140	11100N-12000E B	5	0.6	6.16	21	1162	1.5	5	1.25	0.5	61	25	29	193	5.51	1.95	28	33	1.23	1104	2	0.04	56	0.17	67	96	0.07	167	274	
141	11300N-11750E B	5	1.0	4.16	17	234	0.4	5	0.06	0.2	19	6	56	64	6.29	0.46	12	23	0.40	183	2	0.03	11	0.05	6	15	0.14	185	167	
142	11300N-11800E B	5	0.2	5.33	5	161	1.1	5	0.06	0.2	28	16	74	54	6.57	0.28	9	54	0.42	404	1	0.02	20	0.08	2	6	0.09	130	122	
143	11300N-11850E B	15	0.2	2.55	5	91	0.2	5	0.08	0.2	18	1	77	23	5.35	0.16	10	11	0.20	212	2	0.03	3	0.05	2	13	0.47	321	55	
144	MT THEO - 000 A	5	0.2	6.95	2	520	0.3	5	0.02	0.2	15	4	5	28	2.58	1.79	10	8	0.43	174	1	0.02	2	0.16	2	7	0.12	187	37	
145	100	10	0.2	6.67	34	1184	0.8	5	0.04	0.2	38	20	7	128	6.13	2.04	22	44	0.78	2351	1	0.04	7	0.22	12	8	0.06	271	117	
146	MT THEO - 160	5	0.2	6.89	19	1035	0.7	5	0.08	0.2	31	19	8	155	5.52	2.24	14	30	0.93	1260	1	0.04	8	0.19	10	9	0.08	230	95	
147	MT THEO - 200	5	0.2	7.44	5	663	0.8	5	0.31	0.2	38	17	9	127	5.98	2.44	20	36	1.08	1312	1	0.04	11	0.19	5	20	0.09	258	135	
148	300	5	0.2	5.27	9	324	0.6	5	0.07	0.2	32	7	17	61	5.17	0.87	14	28	0.51	676	1	0.04	4	0.16	2	8	0.16	169	74	
151	400	5	0.2	5.53	2	589	0.7	5	0.34	0.2	31	12	11	82	4.96	1.67	17	31	0.71	532	1	0.03	7	0.16	2	27	0.06	213	88	
152	500	5	0.2	7.23	47	554	0.7	5	0.11	0.2	41	28	12	195	5.69	1.79	21	41	1.01	2488	1	0.04	7	0.24	2	11	0.08	239	109	
153	MT THEO - 600	5	0.2	7.07	2	404	0.8	5	0.08	0.2	31	28	22	81	6.50	1.67	17	40	1.29	1795	2	0.03	17	0.24	7	8	0.11	243	137	
154	MT THEO - 700	5	0.2	6.61	9	643	0.7	5	0.20	0.2	29	9	24	51	5.30	1.48	15	40	0.77	731	1	0.05	10	0.25	2	29	0.16	210	100	
155	800	5	0.2	6.89	5	698	0.7	5	0.42	0.2	34	23	10	124	6.82	2.37	19	42	0.87	1702	1	0.04	9	0.21	2	24	0.07	301	115	
156	930 B	5	0.2	7.56	31	800	0.6	5	0.08	0.2	43	16	13	86	7.17	1.91	18	46	0.65	2064	1	0.04	6	0.30	2	15	0.14	282	135	
157	MT THEO - 1000 B	5	0.2	7.88	10	789	0.6	5	0.07	0.2	28	14	9	111	4.02	2.26	14	29	0.67	1218	1	0.04	4	0.23	2	10	0.13	246	62	
158	489 - A rx	5	0.2	2.54	17	87	0.5	5	5.86	0.2	78	13	37	56	4.53	0.24	16	43	1.93	939	3	0.09	18	0.10	2	77	0.21	177	76	
159	B	5	0.2	4.38	15	162	0.7	5	2.79	0.2	55	18	58	88	5.73	1.04	15	59	2.29	698	2	0.07	45	0.13	2	52	0.16	191	99	
160	C	1600	2.8	4.09	29	1091	0.5	15	2.52	0.2	98	16	21	9429	2.71	1.24	43	34	1.98	283	7	0.09	10	0.79	4	188	0.14	192	31	
161	D	5	0.2	2.52	49	119	0.4	5	1.87	0.3	57	15	32	68	4.47	0.21	18	33	1.81	1009	2	0.14	10	0.13	6	45	0.25	164	81	
162	E	5	0.2	6.14	18	1319	0.6	5	5.96	0.2	96	12	6	19	4.19	2.13	26	21	0.99	1498	2	0.10	5	0.15	3	132	0.09	162	78	
163	F	5	0.2	6.34	17	1112	0.5	5	0.85	0.4	51	6	8	13	5.02	1.86	21	25	1.99	1136	2	0.07	7	0.15	6	86	0.17	189	88	
164	G	20	0.2	3.72	73	2420	0.6	10	4.38	0.7	83	7	22	23	2.64	1.09	19	26	1.22	919	5	0.11	7	0.15	10	120	0.20	141	115	
165	H	5	0.2	4.06	46	332	0.6	5	0.33	0.2	35	12	38	58	4.91	1.26	16	26	1.17	317	5	0.06	23	0.14	12	15	0.11	170	92	
166	I	20	0.2	6.34	20	2056	0.5	5	0.16	0.2	23	10	7	188	4.63	2.41	9	15	1.43	311	3	0.08	4	0.14	4	16	0.09	161	36	
167	J	5	0.2	3.75	30	148	0.6	5	1.93	0.3	71	28	23	40	8.70	0.12	21	45	2.35	1059	3	0.07	8	0.17	4	33	1.02	320	161	
168	K	30	0.2	5.10	17	1273	0.5	5	0.40	0.2	28	11	10	81	5.46	2.04	11	13	1.17	276	6	0.08	3	0.13	2	18	0.10	137	32	
169	L	270	2.0	2.70	526	434	0.3	5	0.29	0.2	30	8	22	28	4.34	0.67	12	27	0.97	390	2	0.13	4	0.11	21	13	0.07	138	90	
170	M	5	0.2	2.08	39	143	0.3	5	0.57	0.4	40	11	18	66	4.26	0.34	16	22	1.19	839	1	0.12	4	0.12	2	32	0.06	151	96	
171	N	5	0.2	3.17	21	161	0.7	5	1.68	0.2	51	32	19	32	7.97	0.08	19	19	2.99	1062	2	0.07	3	0.11	2	68	0.25	284	127	
172	O	100	0.2	7.21	2	1711	0.7	5	0.10	0.2	13	3	6	60	3.89	2.96	10	13	1.21	198	1	0.09	1	0.15	2	18	0.08	172	26	
173	P	30	0.2	6.05	17	1534	0.6	5	2.87	0.8	57	10	8	22	3.86	2.60	13	11	1.29	461	2	0.09	4	0.13	6	111	0.07	139	137	
174	Q	5	0.2	3.89	18	249	0.5	5	3.23	0.2	62	16	19	115	5.70	0.82	15	44	2.06	987	3	0.10	6	0.12	2	63	0.13	287	87	
175	R	420	3.6	6.63	39	1342	0.6	5	3.27	0.2	62	15	12	2700	5.84	2.51	16	23	1.27	737	9	0.06	4	0.13	7	71	0.13	193	85	
176	S	80	0.8	6.68	32	1390	0.7	5	4.87	0.2	77	21	9	1416	6.36	2.66	19	27	1.36	990	12	0.07	4	0.13	5	92	0.14	212	92	
177	T	130	0.2	6.07	19	1729	0.7	5	2.30	0.2	67	20	11	1630	5.39	2.26	25	25	2.12	580	17	0.10	5	0.16	2	72	0.13	223	64	
178	489 - U rx	30	0.2	6.49	45	753	0.8	5	2.62	0.2	65	19	12	261	6.50	2.16	19	35	2.01	851	2	0.11	5	0.13	2	36	0.12	225	67	

T.T. No.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm	8308-008 Pg. 5 of 5
179	489 - V _{rx}	5	0.2	4.40	57	862	0.6	5	4.84	0.3	79	13	25	202	4.59	0.90	18	20	1.16	645	7	0.12	4	0.13	4	108	0.24	202	144	
180	489 - W	5	0.2	2.25	17	83	0.4	5	2.07	0.3	61	11	19	67	4.53	0.15	22	39	1.89	1100	2	0.15	3	0.13	2	32	0.09	165	78	
181	490 - A	5	0.2	6.44	15	1072	0.8	5	3.33	3.6	66	15	59	23	5.19	1.91	21	39	1.39	1158	3	0.07	32	0.14	105	82	0.06	137	786	
182	B	40	0.2	6.13	30	949	0.5	5	0.57	0.2	24	10	14	29	6.27	2.07	9	23	1.83	436	3	0.10	2	0.15	2	28	0.21	189	33	
183	C	490	1.6	5.22	27	973	0.4	5	0.93	0.2	49	12	12	690	6.61	1.70	24	22	1.56	581	1	0.07	2	0.13	2	33	0.17	180	66	
184	D	40	0.2	5.02	27	1148	0.5	5	2.39	0.2	60	22	17	44	4.80	1.86	14	25	1.84	536	2	0.09	4	0.10	2	56	0.13	204	41	
185	E	100	0.2	4.07	24	616	0.5	5	1.41	0.2	50	11	13	218	4.59	1.49	15	20	1.35	367	3	0.10	3	0.12	2	37	0.12	191	31	
186	F	70	2.4	4.44	63	301	0.4	5	2.16	0.3	58	57	22	1112	6.43	0.58	17	43	2.35	906	3	0.14	9	0.15	3	143	0.26	179	63	
187	G	5	0.2	4.81	49	177	0.5	5	2.50	0.2	68	28	22	37	9.50	0.06	20	33	3.25	1354	2	0.10	8	0.13	2	291	0.85	376	162	
188	H	5	0.2	3.86	83	13000	0.5	5	0.10	0.2	23	7	38	36	3.05	1.54	11	26	0.63	77	1	0.07	8	0.07	2	189	0.06	180	31	
189	I	130	0.2	1.28	103	5389	0.2	5	0.08	0.2	16	6	114	28	2.80	0.51	5	15	0.49	186	3	0.08	6	0.08	2	48	0.07	122	35	
190	J	50	0.8	1.87	250	1312	0.3	5	0.12	0.2	16	9	83	136	4.15	0.77	7	11	0.44	106	3	0.04	3	0.07	5	18	0.03	113	23	
191	K	5	0.2	2.03	24	86	0.4	5	0.41	0.2	32	14	30	81	4.01	0.11	15	34	1.73	435	1	0.14	5	0.13	2	17	0.06	178	59	
192	L	5	0.2	2.64	47	135	0.5	5	3.72	0.2	68	21	14	140	6.07	0.30	17	30	1.60	1316	1	0.10	4	0.15	2	194	0.10	283	95	
193	M	5	0.2	3.79	38	286	0.4	5	2.99	0.6	72	15	21	19	4.73	0.40	19	24	1.99	578	2	0.36	9	0.13	3	215	0.39	154	146	
194	N	5	0.2	4.03	232	302	0.5	5	3.84	0.2	69	14	12	50	4.72	0.99	19	45	1.86	1231	1	0.13	5	0.14	6	58	0.14	189	96	
195	O	5	0.2	3.19	43	153	0.4	5	1.53	0.2	53	17	12	73	6.03	0.33	19	67	2.24	1051	1	0.11	4	0.15	2	36	0.11	239	100	
196	P	5	0.2	3.11	53	568	0.4	5	0.29	0.2	31	13	30	119	5.33	0.61	14	57	1.92	343	1	0.08	5	0.15	2	13	0.11	261	79	
197	Q	5	0.4	1.45	80	8091	0.2	5	0.03	0.2	13	6	123	27	1.51	0.58	5	5	0.12	141	3	0.06	7	0.04	2	403	0.04	60	30	
198	490 - R _{rx}	5	0.2	2.91	289	1481	0.3	5	0.13	0.2	20	10	77	25	6.06	1.14	9	11	0.41	136	5	0.03	1	0.10	2	12	0.26	221	130	

APPENDIX V
ROCK SAMPLE DESCRIPTIONS

LAB NORANDA - DELTA

PROJECT NO. 181-E2 PROPERTY RED BLUFF & THEO
 + 127 MAIN GRID MTN RECCE

N.T.S. 104 P/11
 DATE 2 AUG 1993

CERT. NO. _____

GRID REFERENCE _____

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		SAMPLER
A	Argillite with 20% carbonate veins 2% py, fault zone	GRAB	GRAB				11100 N	11986 E	MJG
B	Silicified (Fp ϕ ?), pyritic 1-5%						10700 N	11200 E	
C	Silicified (Fp ϕ ?), 5% pyrite						10700 N	11400 E	
D	Silicified-sericitic (Fp ϕ ?), 3-5% pyrite, 25% calcite veins						10600 N	11650 E	
E	Silica-sericite-calcite altered (Fp ϕ ?), 5-8% py						10600 N	11650 E	
F	Silicified (Hb ϕ ?), 1-3% py tr malachite, calcareous						10768 N	11700 E	
G	Basalt (?), <2% pyrite, weak chlorite						10840 N	11800 E	
H	altered grey siliceous intrusive?, 25% < 1cm thick Qtz veins	Grab	N/A				UTM	UTM	MJG
I	Silicified Fp porphyry (?), 5% fg py	"	"						"
J	Silicified Fp porphyry (?), 5-8% fg py, 10% Qtz veins	"	"						"
K	Fp-Hb porphyry, weakly sericitic groundmass, 5% calcite veins	"	"						"
L	Fp-Hb porphyry, "fresh", 1% pyrite	"	"						"
M	Fp-Hb porphyry, "fresh", 1-2% pyrite	"	"						"
N	Fp-Hb porphyry, "fresh", nil pyrite	"	"						"
O	Tuff? bedded? similar weathering to Fp porphyry, weak calcareous/sericitic	"	"						"
P	Fp porphyry - silicified (?), 3% fg pyrite	"	"						"
Q	Fp porphyry - with stockwork quartz veins 3% + py	"	"						"
R	Qtz veins with 10% sericitic Fp porphyry, 3-5% py	"	"						"
S									
T									
U									
V									
W									

ON MAP

ϕ = porphyry Fp = Feldspar Hb = Hornblende

LAB NORANDA - DELTA

PROJECT NO. 181-E2 PROPERTY RED BLUFF

N.T.S. 104 P/H

CERT. NO. _____

GRID REFERENCE MAIN GRID SOUTH OF DAK RIVER

DATE 2 AUG 1993

SAMPLE REPORT

SAMPLE #	DESCRIPTION	TYPE	WIDTH	ASSAYS			CO-ORDINATES		SAMPLER
A	fine grained wacke, trace pyrite	GRAB	GRAB				10108N	12020E	MJG
B	black siltstone, 2% pyrite, 3% carbonate veins						10089N	12068E	
C	silicified pyritic (3%) rock at 1992-1276 "float" ¹²⁷⁶ ₁₉₉₂						10100N	11575E	
D	fine-grained diorite? weakly sericitized and calcareous						9693N	11950E	
E	Fp ± Hb ∅, sericitic, strongly calcareous, 1-2% py						9700N	11830E	
F	Fp ∅, weak sericite, trace pyrite						9690N	11620E	
G	silicified (Fp ∅), calcareous, 1-2% py						9730N	11610E	
H	shaley siltstone, 2-3% fg pyrite						9165N	11555E	
I	silicified (Fp ∅), 3-5% pyrite, tr black ^{mineral} _{metallic}						8900N	11630E	
J	fg diorite? calcareous groundmass, 1-2% py						8917N	11662E	
K	silicified (Fp ∅?), 3-5% py, moderate sericite, ^{black} _{stanger}						8888N	11660E	
L	silicified (?) Fp ∅, 3-5% pyrite, <5% calcite veinlets						9300N	11675E	
M	Fp ± Hb(?) ∅, 5% carbonate veinlets, trace py						8505N	11550E	
N	fg Hb diorite?, calcareous groundmass, tr py						8100N	11490E	
O	silicified rock, 5% black veinlets, trace pyrite						8420N	11650E	
P	silicified-sericite-carbonate-pyrite (3-5%) rock						8420N	11655E	
Q	silicified-calcareous groundmass, <1% pyrite						8500N	11875E	
R	silicified-calcareous groundmass, 3% py, tr cp, ^{2% black} _{veinlets}						8500N	11675E	
S	silicified-calcareous groundmass, 2-4% py, 3-5% ^{Halk} _{mineral}						8500N	11675E	
T	silicified, weak-mod calcareous, Fp ∅, 3% py "float", .5% cp						8505N	11567E	
U	silicified-calcareous (Fp ∅), 5-8% py						10500N	11680E	
V	Hb-Fp diorite, 1-3% pyrite, trace cp						10500N	11680E	
W	Hb-Fp diorite ∅ weak-moderate calcareous						10500N	11980E	

∅ = porphyry tr py, tr cp Fp = Feldspar Hb = hornblende

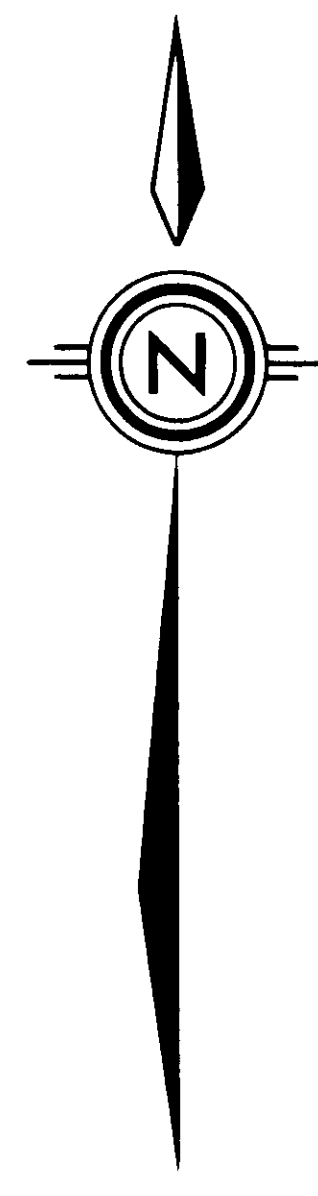
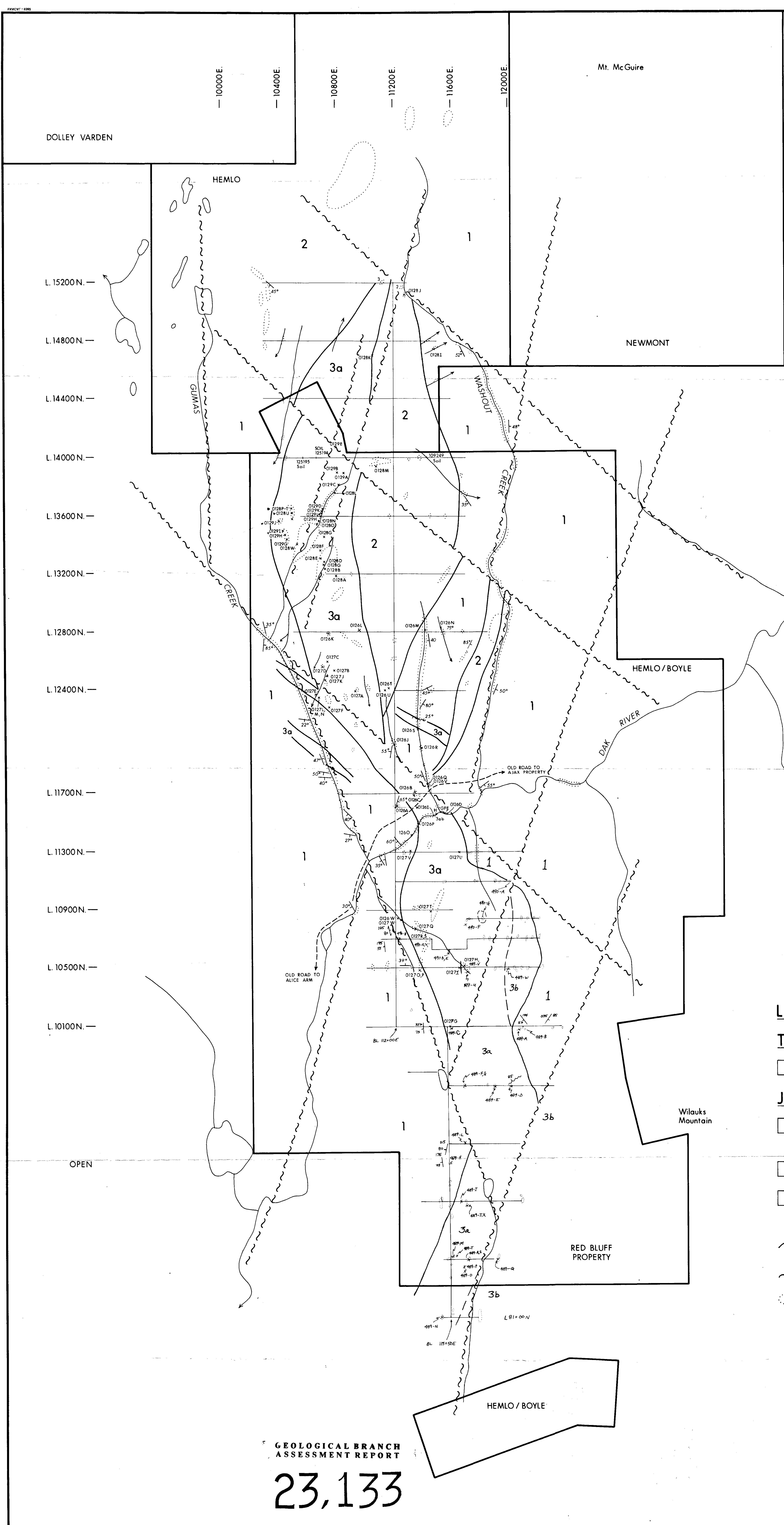
6.0 RECOMMENDATIONS

It is recommended a IP survey be carried out over the best mineralization and soil geochemistry. If warranted, two drill holes are proposed to test the near-surface potential of the property for a porphyry Cu-Au deposit.

5.0 CONCLUSIONS

Based on the work completed on the Red Bluff property south of the Dak river, the following conclusions can be made:

- 1) The "microdiorite" of unit 3a is highly altered at its core. Alteration consists of strong quartz-sericite-pyrite \pm carbonate zone flanked by a weaker sericite-pyrite \pm quartz zone.
- 2) The microdiorite intrusion is interpreted to be controlled and localized by north-northwest and north-northeast trending faults.
- 3) The alteration and mineralization within the microdiorite may be an expression of an outer pyritic shell - the upper portion of a deeper porphyry system.
- 4) Steep west-facing slopes (up to 55°) have enhanced the Cu and Au soil geochemical signatures south of the Dak River. It is believed concentrations have been elevated toward the base of the slope.



LEGEND

TERTIARY

4 BLACK DIABASIC DYKES

JURASSIC

3 3a MICRODIORITE
3b FELDSPAR PORPHYRY

2 ANDESITE

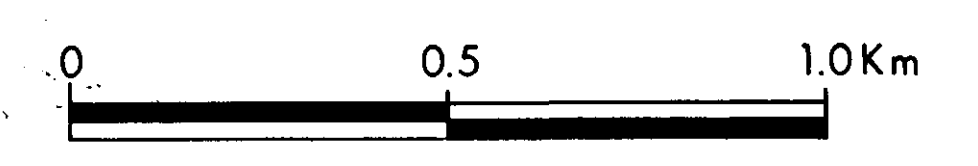
1 1a BLACK ARGILLITE, SILTSTONE
1b GREYWACKE, GRIT, CONGLOMERATE

— GEOLOGICAL CONTACT

- - - PROMINENT TOPOGRAPHIC LINEAMENT

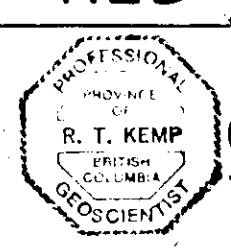
... OUTCROP, AREA OF OUTCROP

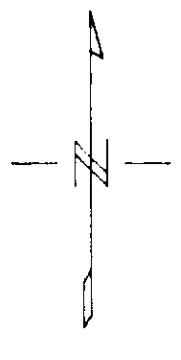
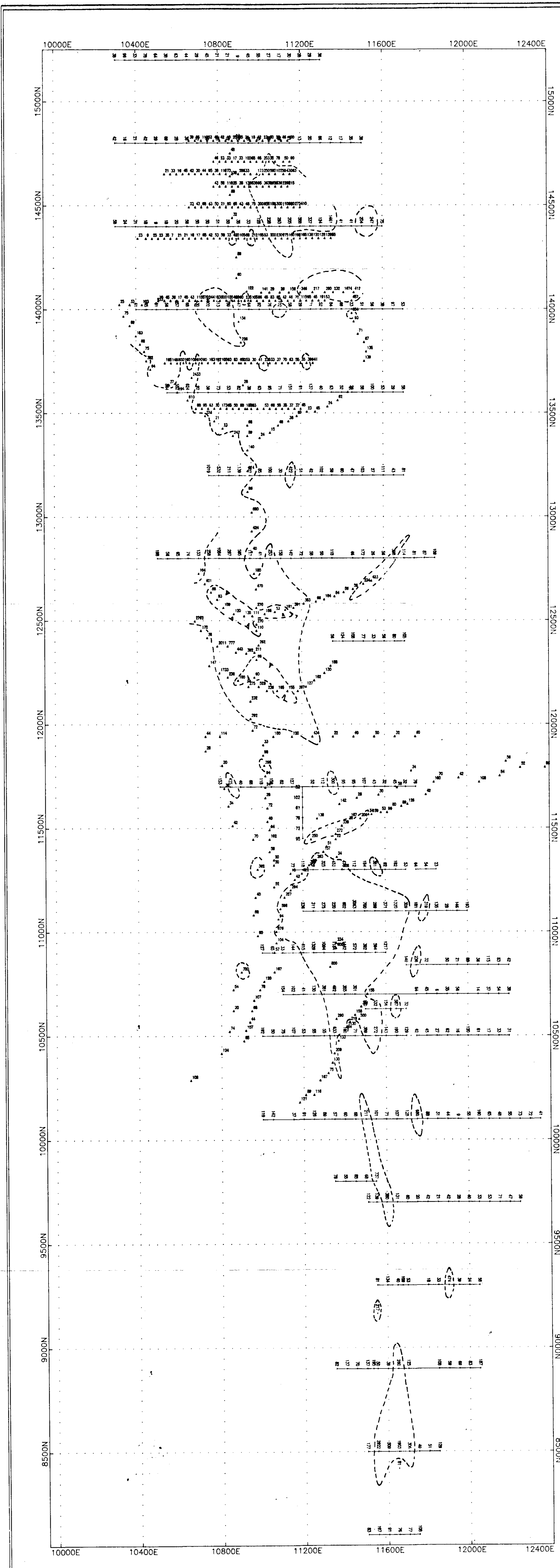
x SAMPLE LOCATION



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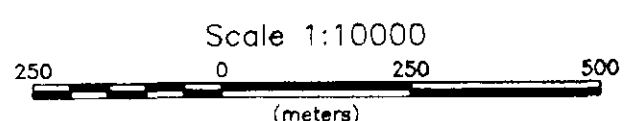
REVISED	RED BLUFF PROPERTY	
	 GEOLOGY	
PROJ. No. 364	SURVEY BY M. S./R.K./M.G.	DATE NOV. 1993
N.T.S. 103 P/11	DRAWN BY J. Serwin	SCALE 1:10,000
DWG No. 3	NORANDA EXPLORATION	
	OFFICE VANCOUVER	



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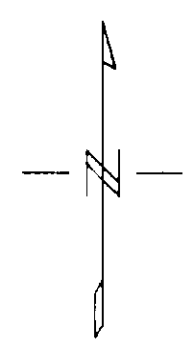
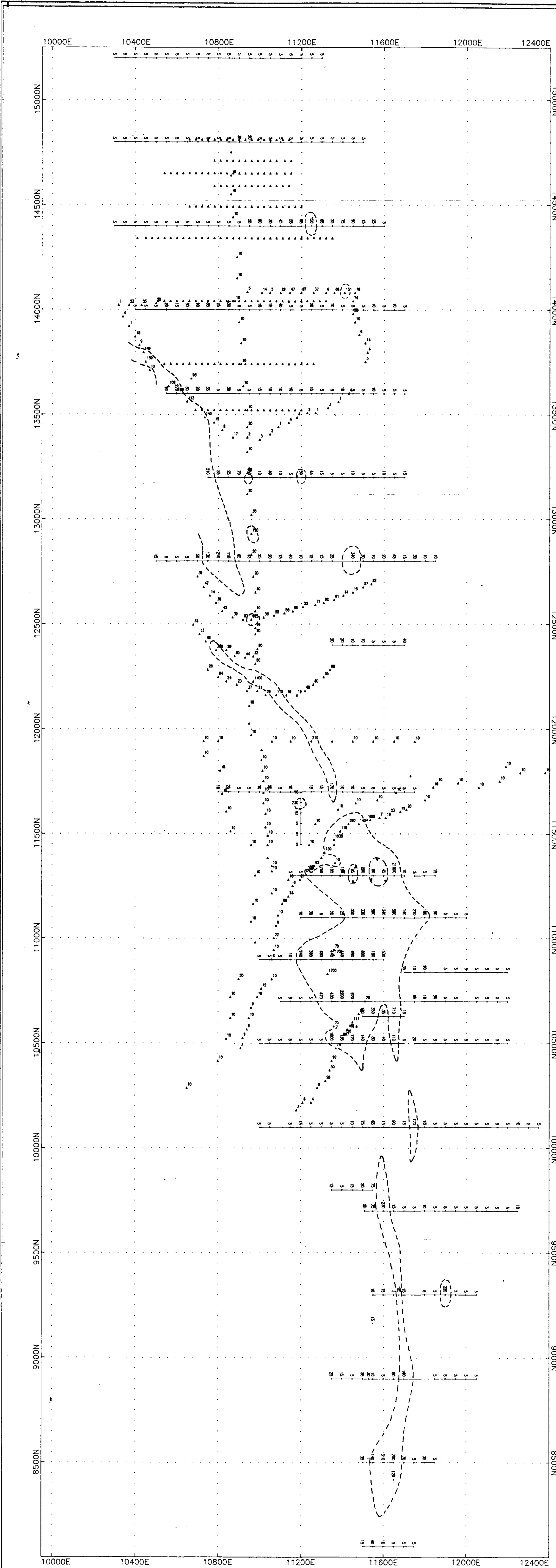
 **Cu. > 200ppm.**



Copper in ppm

FIG.4

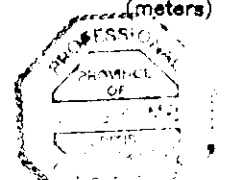
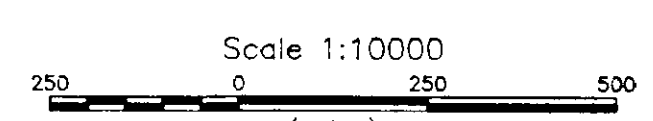
RED BLUFF
Grid Soil Geochemistry 1992-93 Sampling
Processed By : R. Fenton Date : Aug. 30, 1993
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Au. >100 ppb.



Gold in ppb

FIG.5

RED BLUFF
Grid Soil Geochemistry 1992-93 Sampling
Processed By : R. Fenton Date : Aug.30,1993
NORANDA EXPLORATION COMPANY, LIMITED