ASSESSMENT REPORT

GEOLOGY AND GEOCHEMISTRY

CANADA 1 CLAIM

(Record # 9607)

OMINECA MINING DIVISION

N.T.S. 93 E/15E, 16W

Latitude: 53o 57'
Longitude: 123o 30'

Work Performed:
July 2, 1988 to July 26, 1989

NORANDA EXPLORATION COMPANY, LIMITED
(NO PERSONAL LIABILITY)

REPORT BY:
MARK LISKOWICH
FIELD GEOLOGIST

OCTOBER, 1989

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SUMMARY

A total of twenty-four man days were spent on and around the Canada 1 claim between July 21, 1988 and July 26, 1989. The work was done during two programs; one in 1988 and one in 1989.

The claim is underlain by Upper Cretaceous Kasalka Group felsic volcanics and Upper Cretaceous to Eocene Ootsa Lake Group volcanics (Woodsworth, 1980). Where these rocks outcrop, they are generally altered.

The rock and soil geochemical values obtained in the area are slightly elevated in a number of elements. None are of ore grade. The best values come from a quartz-barite-pyrite-arsenopyrite vein system that is exposed in the Coop Pit.

Further work should concentrate on extending and sampling the strike length of the Coop Pit vein system. Reconnaissance soil and rock sampling should also be undertaken on the remainder of the Canada 1 claim and the surrounding area.

INTRODUCTION

PURPOSE:

The Canada 1 claim was staked to cover a zone of rock alteration and quartz-barite-pyrite-arsenopyrite veining. This zone of veining is exposed in an old gravel pit, known as the Coop Pit.

The purpose of the two small programs undertaken by Noranda personnel was to map and sample the vein system and perform some reconnaissance mapping, rock, soil and silt sampling throughout the remainder of the claim.

LOCATION & ACCESS:

The Coop Pit is located approximately 70 km southeast of Houston, B.C. (Figures 1 & 2)

The property lies at an elevation of approximately 2500 feet and is covered by spruce, balsam and pine forest and clearcuts.

The property is accessed via logging roads.

PROPERTY:

The property consists of one 20 unit claim called the Canada 1 claim.

CLAIM NAME	RECORD #	TYPE	UNITS	RECORD DATE	DUE
Canada 1	9607	MG	20	July 26, 1988	1991

REVISED	CANADA I CLAIM - Coop Pit
	LOCATION MAP
PROJ No. 872	SURVEY BY: Mark LisKowich DATE: Sept 1989
N.T.S.	DRAWN BY: SCALE: 1:8,000,000
DWG. No. Figure 1.0	NORANDA EXPLORATION OFFICE: Prince George B.C.

LOCATION MAP

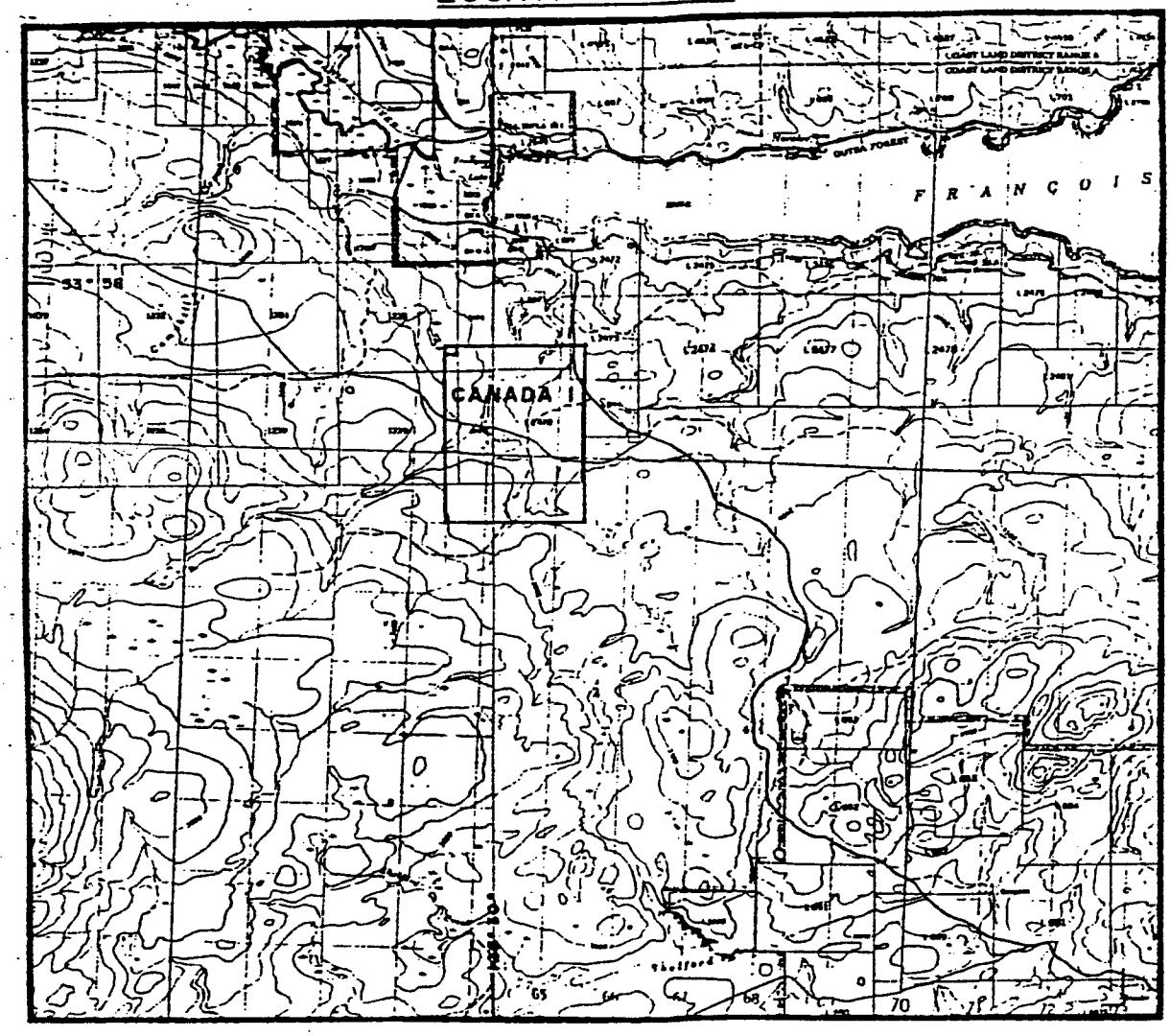


Figure 2
Location
Canada 1: claim
NTS 93 E/15,16

REGIONAL GEOLOGY

The Canada 1 claim lies along the northeastern edge of the Nechako Basin, a Cretaceous and Tertiary depositional basin south of the Skeena Arch. The Nechako Basin is part of the Intermontaine Belt of the Canadian Cordillera.

The claim is underlain by Upper Cretaceous Kasalka Group felsic volcanics and Upper Cretaceous to Eocene Ootsa Lake Group volcanics. younger Endako Group volcanics (mainly basalts) overlie these rocks in places. These are intruded by Late Cretaceous granodiorites and monzonites, possibly of the Bulkley intrusive suite (Woodsworth, 1980).

Several directions of faults are mapped in the Coop Pit area. These have azimuths of about 20, 50-80, and 145-160 degrees (ibid).

PREVIOUS WORK

Two assessment reports on the Coop Pit and surrounding area exist. A.R. 10478 reports geochemical surveys performed by Union Carbide Canada Ltd. in 1981 on their Mosquito claim located 3 km west of the Canada 1 claim.

A.R. 13042 reports on an induced polarization survey performed by B.P. Resources in August of 1984. This survey consisted of one line done over the Coop Pit with a 50 metre dipole-dipole array.

WORK UNDERTAKEN

1988

Four men spent three days from July 2 to July 4 working on the Canada 1 claim. A small grid (approximately 4.4 line km) was compassed and flagged over the Coop Pit. The grid was prospected and soil sampled at twenty five metre intervals. The Coop Pit was mapped at a 1:500 scale. Seven grab (rock) samples and three chip samples were taken from the Coop Pit during this period.

1989

Two men (Mark Liskowich, Paul Turbull) spent 5 days in the area. Two of the five days were needed to mob and demob camp. Of the remaining three days, two and one half were spent hand trenching, mapping and sampling in the Coop Pit. The remaining one half day was spent doing recon mapping and sampling throughout the claim.

All work was done from a camp located approximately 250 metres northeast of the pit (along the road). The site lacks a source of water. It was called the Pit Camp (see Figure 2).

One full day was spent washing outcrop with a wajax pump and hand trenching with shovels. One half day was spent flagging a detailed grid over the pit area with stations flagged with blue flagging tape every five metres. Large rocks were used in place of wooden pickets. One and one half days were spent chip sampling and producing a 1:100 scale map of the pit.

In total 87 soil samples, 27 rock samples, and 6 silt samples have been taken.

All sampling by Noranda personnel (1988, 1989) was done according to Noranda's standard procedures. Rock samples were taken during the course of work at sites chosen by field personnel. Soil samples of inorganic soil horizons (B horizon or till) were taken with grub hoes, soil augers, or shovels from 0.1 to 0.6 m depth, air dried, and shipped to the Noranda Geochemical Laboratory in Vancouver for processing.

All samples were then analyzed by Acme Analytical Laboratories by either ICP or AA methods depending on the element and the type of sample or by Noranda's Lab by atomic absorbtion.

Field personnel who worked on the Canada 1 claim between July 2, 1988 and July 25, 1989 are listed in Appendix 2. Costs of this work are listed in Appendix 3.

RESULTS

GEOLOGY & PROSPECTING

Map units defined are:

UNIT V3: porphyritic dacite, with phenocrysts of plagioclase up to 4mm long. These plagioclase phenocrysts may be altered to clay minerals. This unit varies from maroon to gray blue to white (altered) in color. Rusted vugs are common along with rusted fractures. Hematite veining with a stockwork texture is common. The unit is intensely altered (bleached white in color) in areas of quartz veining. Distal to the zones of veining outcrops of maroon porphyritic dacite with intermittent, sporadic, patches of bleached rock may be found.

UNIT QV: The majority of the veining in the Coop Pit is comprised of quartz, and pyrite. Quartz, pyrite, barite, calcite and arsenopyrite veins up to 30 cm wide are exposed. However, more commonly quartz, pyrite, and/or arsenopyrite veins or veinlets, and/or pyrite, arsenopyrite veinlets found in silicified zones, are encountered. To a minor extent calcite pods and veinlets also exist. The dominant trend of the veining is azimuth 040 degrees.

The geology and locations of the various samples can be found on Figures 3 and 4. The mineralization on the Canada 1 is restricted, for the most part, to the vein systems and those areas showing intense alteration. Some samples of alteration and mineralization are anomalous in Zn-As-B-Sb-Mo-Pb-Ag-Mn.

Rock samples have been taken from the dacitic unit as well as the vein system.

GEOCHEMISTRY

ROCKS

Twenty seven rock samples were taken on or near the Canada 1 claim between July 2, 1988 and July 25, 1989. Of these twenty seven samples, 25 were found to be anomalous in one or more elements.

The samples are described and analyses are given in Appendices 4 and 5. Locations are shown on Figures 3 and 4.

Minimum and maximum values that Noranda has obtained to date are listed in Table 1. Note that none of the values are of ore grade.

TABLE 1.

ELEMENT	LOW VALUE	THRESHOLD	HIGH VALUE
Mo	1 ppm	10 ppm	18 ppm
Cu	3	100	54
Pb	5	30	61
Zn	22	250	981
Ag	0.1	1.6	4.8
Au	0.001	0.10	0.110
As	2	100	1094
Sb	2	10	27
Bi	2	10	3
Ba	7	400	931
Mn	45	2000	2953
Fe	.6%	7.0%	7.82%

SOILS & SILTS

A total of eighty-seven soil samples were taken on the Canada 1 claim between July 2, 1988 and July 25, 1989. Seven of these samples produced anomalous values for Ba, Mn.

The locations of these samples may be found on Figure 3 and 4. Analytical reports are given in Appendix 5.

The lowest and highest values that Noranda has obtained from their soil samples on the Canada 1 claim are listed in Table 2.

A total of six silt samples were taken on or near the Canada 1 claim.

TABLE 2.

ELEMENT	LOW VALUE	THRESHOLD	HIGH VALUE
Mo	1 ppm	10 ppm	1 ppm
Cu	5	100	27
Pb	5	30	25
Zn	30	250	200
Ag	0.1	1.6	1.3
Au	0.001	0.010	0.003
As	2	100	72
Sb	2	10	3
Bi	2	10	3
Ba	74	400	699
Mn	104	2000	2290
Fe	1.26%	7.0%	4.04%

Threshold values have been selected on the basis of past experience in the general area of the Canada 1 claim.

CONCLUSIONS

Outcrop is limited by extensive till cover on the Canada 1 claim. Intense alteration and veining are found in the Coop Pit. Although the geochemical values of samples from this area are not of ore grade, they are anomalous in a number of elements, primarily Zn, As, Ba and Ag. This suggests that richer mineralization may be located at depth, or possibly along strike from the Coop Pit.

RECOMMENDATIONS

Further reconnaissance prospecting and soil sampling should be undertaken on and around the Canada 1 claim.

Previously, a line I.P. was done over the Coop Pit. However that survey was conducted with a fifty metre dipole spacing. It is recommended that a more extensive survey be conducted over the area utilizing a twenty-five metre dipole spacing.

Further work in the area should also include a small drill program in order to test the mineralization at greater depths.

REFERENCES

BCMEMPR Assessment Reports 10478, 13042

Woodsworth, G.J., 1980: Geology of Whitesale Lake (93E) Map Area, B.C., G.S.C. Open File 708, Ottawa, Ontario, 1 sheet. 1:250,000

APPENDIX 1. STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

RELEVANT TRAINING:

B.Sc. (1989)	University of Regina Regina, Saskatchewan Geology

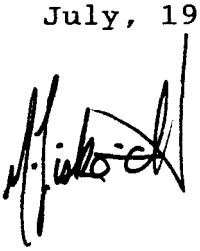
RELEVANT EXPERIENCE:

May 1989 ...	Field Geologist Noranda Exploration Company, Limited Prince George, B. C.
May 1988-Aug. 1988	Senior Geological Assistant CaMeco/Sask. Mining & Development Corp. La Rouge, Sask.
May 1987-Aug. 1987	Geological Assistant Saskatchewan Mining & Development Corp. La Rouge, Sask.
June 1986-Aug. 1986	Geological Assistant Saskatchewan Energy & Mines Precambrian Division Regina, Sask.

PROFESSIONAL AFFILIATIONS:

Member, Saskatchewan Geological Society.

Mark Liskowich
Field Geologist
July, 1989



APPENDIX 2. LIST OF PERSONNEL
July 2, 1988 to July 25, 1989

NAME, CITY	POSITION	DATES WORK IN FIELD
Geof Chinn Montreal, Que.	Geologist	2-4 July 1988
William Donaldson Ottawa, Ont.	Geologist	2-4 July 1988
Carey Galeschuk Saskatoon, Sask.	Geologist	2-4 July 1988
Mark Liskowich Regina, Sask.	Geologist	22-26 July 1989
Fraser Stewart Edmonton, Alta.	Assistant	2-4 July 1988
Paul Turnbull Edmonton, Alta.	Assistant	22-26 July 1989

Total 1988: 12 man days
Total 1989: 10 man days

APPENDIX 3. STATEMENT OF COSTS

LABOR:			
22 man days @ $140.00			$ 3,080.00
FOOD & ACCOMMODATIONS:			
22 man days @ $50.00			$ 1,100.00
SUPPLIES:			
22 man days @ $20.00			$ 440.00
TRANSPORTATION:			
Truck rental - 2 week @ $200/week			$ 400.00
ANALYSIS:			
87	soil prep @ $0.85	$ 79.05	
27	rock prep @ $3.00	$ 81.00	
120	samples 30 element ICP @ $6.25	$750.00	
120	samples Au by Atomic Absorbtion @ $4.50	$540.00	$ 1,450.05
FREIGHT ON SAMPLES:			$ 150.00
REPORT PREPARATION:			
Author & typing	5 days @ $150	$750.00	
	2 days @ $150	$300.00	$ 1,050.00
			==========
		TOTAL COST:	$ 7,670.05

APPENDIX 4. ANALYTICAL PROCEDURES

ANALYTICAL METHOD

DESCRIPTIONS FOR GEOCHEMICAL ASSESSMENT REPORTS

The methods listed are presently applies to analyse geological materials by the Noranda Geochemical Laboratory at Vancouver. (March, 1984).

Preparation of Samples

Sediments and soils are dried at approximately 80°C and sieved with a 80 mesh nylon screen. The -80 mesh (0.18 mm) fraction is used for analysis.

Rock specimens are pulverized to -120 mesh (0.13 mm). Heavy mineral fractions (panned samples) are analysed in its entirety, when it is to be determined for gold without further sample preparation. See addendum.

Analysis of Samples

Decomposition of a 0.200 g sample is done with concentrated perchloric and nitric acid (3:1), digested for 5 hours at reflux temperature. Pulps of rock or core are weighed out at 0.2 g or less depending on the matrix of the rock, and twice as much acid is used for decomposition than that is used for silt or soil.

The concentrations of Ag, Cd, Co, Cu, Fe, Mn, Mo, Ni, Pb, V and Zn (all from the group A elements of the fee schedule) can be determined directly from the digest (dissolution) with an atomic absorption spectrometer (AA). A Varian-Techtron Model AA-5 or Model AA-475 is used to measure elemental concentrations.

Elements Requiring Specific Decomposition Method

Antimony - Sb: 0.2 g sample is attached with 3.3 mL of 6% tartaric acid, 1.5 mL conc. hydrochloric acid and 0.5 mL of conc. nitric acid, then heated in a water bath for 3 hours at 95°C. Sb is determined directly from the acid solution with an AA-475 equipped with electrodeless discharge lamp (EDL).

Arsenic - As: 0.2 - 0.4 g sample is digested with 1.5 mL of 70% perchloric acid and 0.5 mL of conc. nitric acid. A Varian AA-475 equipped with an As-EDL measures the arsenic concentration of the digest.

Barium - Ba: 0.1 g sample is decomposed with conc. perchloric, nitric and hydrofluoric acid. Atomic absorption using a nitrous oxide-acetylene flame determines Ba from the aqueous solution.

Bismuth - Bi: 0.2 g - 0.3 g is digested with 2.0 mL of perchloric 70% and 1.0 mL of conc. nitric acid. Bismuth is determined directly from the digest into the flame of the AA instrument c/w EDL.

Gold - Au: 10.0 g sample (Pan-concentrates see below) is digested with aqua regia (1 part nitric and 3 parts hydrochloric acid). Gold is extracted with Methyl iso-Butyl ketone (MIBK) from the aqueous solution. Gold is determined from the MIBK solution with flame AA.

Magnesium - Mg: 0.05 g - 0.10 g sample is digested with 4 mL perchloric/nitric acid (3:1). An aliquot is taken to reduce the concentration to within the range of atomic absorption. The AA-475 with a nitrous oxide flame determines Mg from the aqueous solution.

Tungsten - W: 1.0 g sample sintered with a carbonate flux and thereafter leached with water. The leachate is treated with potassium thiocyanate. The yellow tungsten thiocyanate is extracted into tri-n-butyl phosphate. This permits colourimetric comparison with standards to measure tungsten concentration.

Uranium - U: An aliquot, taken from a perchloric-nitric (3:1) decomposition, usually from the multi-element digestion, is diluted with water and a phosphate buffer. This solution is exposed to laser light, and the luminescence of the uranyl ion is quantitatively measured on the UA-3 (Scintrex).

LOWEST VALUES REPORTED IN PPM

Ag - 0.2	Mn - 20	Zn - 1	Au - 0.1 (10 ppb)
Cd - 0.2	Mo - 1	Sb - 1	W - 2
Co - 1	Ni - 1	As - 1	U - 0.1
Cu - 1	Pb - 1	Ba - 10	
Fe - 100	V - 10	Bi - 1	

APPENDIX 5. ANALYTICAL RESULTS

Canada I Claim (ML)

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 31 1989 DATE REPORT MAILED: Aug 5/89 SIGNED BY. C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION CO. LTD. PROJECT 8908-019 260 File # 89-2570

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
100817	9	54	27	[illegible]	[illegible]	22	16	1490	4.53	[illegible]	5	ND	3	39	1	[illegible]	3	54	1.60	.086	10	17	.66	36	.01	14	.56	.01	.07	1	[illegible]
100818	9	27	26	[illegible]	[illegible]	18	14	1312	3.90	191	5	ND	3	85	1	[illegible]	2	52	.42	.084	11	17	.39	254	.01	10	.55	.01	.04	1	4
100819	[illegible]	15	26	[illegible]	.9	18	14	1326	5.01	262	5	ND	3	79	1	7	3	73	1.84	.083	11	19	.84	226	.01	10	.61	.01	.05	1	5
100820	7	7	25	[illegible]	.4	22	16	1390	4.78	216	5	ND	4	64	1	4	2	60	1.18	.094	12	14	.68	102	.01	11	.59	.01	.05	1	2
100821	8	12	24	[illegible]	.5	23	15	1016	5.23	[illegible]	5	ND	3	47	1	6	2	59	1.63	.082	10	16	.65	31	.01	9	.62	.01	.04	1	4
100822	[illegible]	8	23	[illegible]	.5	12	10	1034	3.21	[illegible]	5	ND	3	69	1	6	2	40	.18	.066	10	15	.04	[illegible]	.01	4	.61	.01	.07	1	7
100823	[illegible]	29	25	[illegible]	.4	18	12	1152	4.23	[illegible]	5	ND	3	57	1	9	2	43	.23	.071	10	16	.14	165	.01	7	.61	.01	.05	1	3
100824	[illegible]	9	[illegible]	[illegible]	.7	19	13	964	4.45	[illegible]	5	ND	3	33	1	[illegible]	2	42	.71	.079	10	14	.31	30	.01	7	.50	.01	.06	1	1
100825	6	6	29	[illegible]	.3	19	14	611	4.81	359	5	ND	3	44	1	5	3	46	1.12	.087	11	14	.35	34	.01	5	.62	.01	.04	1	6
100997	5	10	21	[illegible]	.2	18	14	1061	4.22	328	5	ND	4	45	1	5	2	56	1.19	.096	13	17	.46	79	.01	6	.64	.01	.05	1	1
100998	[illegible]	19	[illegible]	[illegible]	1.2	15	13	563	7.82	985	5	ND	4	38	1	[illegible]	2	47	.13	.077	10	14	.04	50	.01	5	.59	.01	.10	1	2
100999	3	12	[illegible]	[illegible]	.7	27	21	[illegible]	5.60	79	5	ND	4	26	1	4	2	82	.89	.127	17	28	.64	113	.01	26	.70	.01	.07	1	1
101000	3	42	[illegible]	[illegible]	[illegible]	26	19	2137	5.23	101	5	ND	5	31	1	[illegible]	2	78	.81	.135	18	27	.41	222	.01	15	.76	.01	.09	1	3
108001	4	8	14	[illegible]	1.3	19	16	[illegible]	4.84	63	5	ND	3	109	1	2	2	78	.40	.072	10	20	.50	218	.01	13	.54	.01	.04	1	5
108002	1	6	8	32	.1	4	3	162	1.39	5	5	ND	10	48	1	2	2	17	.09	.027	16	5	.12	353	.04	3	.65	.02	.12	1	1
108003	[illegible]	78	[illegible]	[illegible]	[illegible]	21	14	592	5.15	[illegible]	5	ND	3	36	1	[illegible]	2	46	1.64	.048	7	12	.41	15	.01	9	.40	.01	.07	1	3

Mosquito Hills Claim

Copy to Del + Mark

8 Aug Pl

Huckleberry
93 E/11E

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPB	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM
20400E 20040N	1	98	18	283	.1	17	10	330	3.61	37	5	ND	3	16	1	2	2	62	.21	.034	7	21	.49	61	.07	3	2.34	.01	.08	1
20400E 20060N	1	19	17	247	.1	10	6	265	3.43	24	5	ND	3	16	1	2	2	65	.21	.041	6	20	.35	63	.10	4	1.56	.01	.06	1
20400E 20080N	1	53	17	217	.1	19	11	505	3.43	21	5	ND	4	21	1	2	2	59	.29	.037	9	25	.59	92	.07	3	2.44	.01	.07	1
20400E 20100N	1	21	15	278	.1	13	8	453	2.93	22	5	ND	3	25	1	2	2	51	.28	.052	7	18	.35	73	.07	3	1.45	.01	.06	1
20400E 20120N	1	33	18	304	.1	18	7	298	4.02	51	5	ND	3	21	1	2	2	71	.24	.036	6	22	.50	65	.08	2	2.08	.01	.05	1
20400E 20140N	1	19	14	384	.1	12	6	251	3.39	26	5	ND	3	18	1	2	2	65	.22	.021	6	20	.39	68	.07	2	1.74	.01	.06	1
20400E 20160N	1	55	60	659	.6	17	8	288	4.21	387	5	ND	4	18	1	2	2	66	.21	.026	12	25	.53	71	.08	3	3.08	.01	.06	1
20400E 20180N	1	19	24	274	.3	8	5	197	3.64	61	5	ND	5	20	1	2	2	74	.26	.016	7	19	.25	68	.08	2	1.33	.01	.06	1
20400E 20200N	1	79	90	713	1.0	13	12	1407	4.71	712	6	ND	4	16	2	4	2	65	.29	.132	7	20	.46	79	.07	5	2.80	.01	.11	1
20400E 20220N	1	210	86	787	1.1	11	12	2097	5.59	1222	5	ND	3	20	3	3	6	66	.27	.175	6	18	.64	173	.08	3	3.09	.01	.11	1
20400E 20260N	1	382	159	924	2.6	12	31	4489	11.63	955	5	ND	5	16	3	20	26	117	.47	.083	7	9	.51	85	.01	5	2.92	.01	.12	1
20400E 20280N	1	92	46	283	.7	16	10	940	4.68	197	5	ND	4	12	1	4	3	73	.14	.057	7	21	.51	68	.06	4	3.01	.01	.07	1
20400E 20300N	1	54	24	219	.3	15	9	323	3.79	70	5	ND	4	12	1	2	3	61	.14	.040	7	21	.46	64	.08	8	2.73	.01	.07	1
20400E 20340N	1	31	27	824	.1	12	11	395	3.27	65	5	ND	3	24	2	2	2	59	.25	.024	9	21	.47	66	.10	7	2.03	.01	.04	1
20400E 20360N	1	15	24	279	.1	8	5	181	4.39	46	5	ND	4	23	1	2	2	96	.28	.023	6	21	.37	72	.16	2	1.85	.01	.05	1

Coop Pit
Coneda 1
93E/15E/16W

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPB	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM
30000N 29800E	1	6	8	54	.1	10	5	221	2.21	4	5	ND	4	16	1	2	2	41	.15	.053	7	12	.18	110	.05	6	1.36	.01	.05	2
30000N 29820E	1	9	10	53	.1	9	5	164	2.46	9	5	ND	4	15	1	2	2	46	.14	.080	8	15	.19	106	.05	3	1.52	.01	.05	3
30000N 29840E	1	6	8	65	.1	9	5	193	2.35	4	5	ND	4	13	1	2	2	43	.13	.098	7	14	.17	112	.05	2	1.63	.01	.05	1
30000N 29860E	1	7	5	71	.1	6	3	475	1.70	3	5	ND	4	21	1	2	2	31	.20	.052	8	12	.16	105	.05	4	1.08	.01	.05	1
30000N 29880E	1	7	6	44	.1	6	3	179	1.73	4	5	ND	3	22	1	2	2	34	.21	.029	9	12	.19	104	.06	9	.84	.01	.06	1
30000N 29900E	1	13	9	70	.2	9	5	857	2.14	6	5	ND	5	52	1	2	2	35	.44	.058	16	15	.29	231	.03	9	1.58	.01	.08	1
30000N 29920E	1	8	7	54	.1	7	4	342	1.85	5	5	ND	3	27	1	2	2	34	.23	.034	10	13	.22	127	.04	4	.99	.01	.04	2
30000N 29980E	2	22	22	200	.4	19	15	1225	3.99	69	5	ND	7	64	1	2	2	62	.88	.093	16	20	.29	623	.01	13	.83	.01	.07	1
30000N 30000E	2	26	25	200	.5	22	18	1397	4.04	72	5	ND	9	67	1	3	2	66	1.20	.099	16	21	.38	642	.01	11	.78	.01	.09	1
30000N 30040E	1	15	10	59	.1	9	5	329	2.68	13	5	ND	6	30	1	2	2	46	.35	.059	14	17	.26	219	.05	8	1.20	.01	.06	1
30000N 30060E	1	7	8	94	.1	11	5	182	2.13	5	5	ND	3	12	1	2	2	37	.12	.095	8	14	.18	123	.05	2	1.68	.01	.05	1
30000N 30080E	1	8	7	39	.1	8	4	224	2.28	5	6	ND	4	18	1	2	2	45	.17	.049	7	14	.22	94	.05	7	1.03	.01	.03	1
30000N 30100E	1	7	9	75	.1	10	5	368	2.19	6	5	ND	4	17	1	2	2	39	.16	.066	8	14	.20	128	.05	7	1.61	.01	.05	1
30000N 30120E	1	7	6	48	.1	6	4	217	1.55	4	5	ND	3	19	1	2	2	29	.19	.034	8	10	.20	94	.06	5	.94	.01	.04	1
30000N 30140E	1	9	5	44	.1	10	4	162	1.88	4	5	ND	4	22	1	2	2	33	.16	.051	7	12	.18	165	.04	6	1.75	.01	.05	1
30000N 30160E	1	5	7	41	.1	5	2	104	1.26	3	5	ND	3	16	1	2	2	24	.15	.027	8	9	.15	85	.05	3	.93	.01	.05	2
30000N 30180E	1	7	6	64	.2	6	3	156	1.45	3	5	ND	3	21	1	2	2	27	.18	.038	8	11	.16	113	.04	7	1.11	.01	.06	1
30000N 30200E	1	9	9	55	.1	9	4	203	1.83	6	5	ND	2	25	1	2	2	28	.23	.081	11	14	.22	149	.03	6	1.90	.01	.05	1
29800E 29875N	1	8	6	49	.1	7	3	144	1.72	5	5	ND	3	18	1	2	2	33	.16	.033	8	11	.21	108	.05	2	1.00	.01	.05	2
29800E 29900N	1	14	7	41	.1	8	4	258	2.36	10	5	ND	5	27	1	2	2	41	.27	.038	12	15	.26	130	.06	6	1.02	.01	.08	1
STD C	18	58	37	132	7.2	67	28	1046	3.97	41	18	7	38	47	17	19	19	55	.47	.088	38	55	.89	174	.06	38	1.91	.06	.13	12

Coop Pit
Corridor
93E/15E,16W

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM
29800E 29925N	1	9	7	54	.2	8	4	159	1.77	4	5	ND	3	21	1	2	2	29	.18	.054	8	11	.22	135	.04	2	1.63	.01	.06	1
29800E 29950N	1	9	8	92	.1	8	4	751	1.72	6	5	ND	3	27	1	3	2	30	.25	.076	8	13	.16	176	.04	4	1.39	.01	.07	1
29800E 29975N	1	7	8	80	.2	9	5	406	2.04	8	5	ND	4	17	1	2	2	35	.15	.081	8	11	.16	114	.04	3	1.70	.01	.06	1
29800E 30025N	1	8	8	66	.1	8	4	161	2.14	5	5	ND	3	23	1	2	2	38	.22	.070	8	14	.22	132	.05	3	1.53	.01	.06	1
29800E 30050N	1	8	9	62	.1	11	6	182	2.47	4	6	ND	4	17	1	2	2	43	.16	.105	8	15	.19	175	.05	3	1.85	.01	.07	1
29800E 30075N	1	7	5	47	.2	6	3	167	1.46	2	7	ND	4	19	1	2	2	27	.18	.025	9	11	.20	90	.05	2	.95	.01	.05	1
29800E 30100N	1	7	7	34	.2	5	3	150	1.37	2	5	ND	3	21	1	2	2	27	.17	.016	9	10	.19	96	.05	3	.83	.01	.05	1
29800E 30125N	1	8	7	55	.1	7	4	132	2.00	2	5	ND	4	21	1	2	2	37	.18	.033	8	14	.19	122	.05	3	1.27	.01	.06	1
29800E 30150N	1	8	6	51	.1	8	4	136	1.94	4	5	ND	3	22	1	2	2	35	.22	.045	8	13	.17	126	.04	2	1.32	.01	.06	1
29800E 30175N	1	7	6	34	.1	6	3	227	2.00	5	5	ND	3	29	1	2	2	39	.23	.040	8	13	.21	118	.04	2	.98	.01	.07	2
29800E 30200N	1	10	7	85	.1	7	4	2290	1.63	2	5	ND	3	42	1	2	2	29	.35	.064	14	11	.19	225	.03	2	1.13	.01	.07	1
29900E 29800N	1	7	9	44	.2	6	3	186	1.42	4	7	ND	4	38	1	2	2	28	.32	.030	10	12	.26	146	.04	2	1.38	.01	.05	1
29900E 29825N	1	6	7	33	.1	5	3	143	1.64	3	5	ND	3	19	1	2	2	32	.17	.021	7	10	.18	105	.05	2	.88	.01	.05	1
29900E 29850N	1	6	8	74	.1	8	4	369	1.87	3	5	ND	3	19	1	2	2	32	.16	.096	8	11	.14	101	.04	2	1.71	.01	.05	1
29900E 29875N	1	9	10	80	.1	11	5	147	2.42	2	5	ND	4	15	1	2	2	36	.13	.143	8	14	.19	166	.04	4	2.60	.01	.06	1
29900E 29900N	1	10	8	58	.1	7	4	162	1.87	4	5	ND	4	23	1	2	2	32	.22	.046	10	12	.20	153	.04	2	1.41	.01	.07	1
29900E 29925N	1	7	7	44	.2	6	3	256	1.80	3	8	ND	4	23	1	2	2	32	.25	.054	9	12	.23	96	.05	2	1.09	.01	.06	1
29900E 29950N	1	6	8	45	.2	6	3	168	1.78	5	5	ND	3	21	1	2	2	33	.21	.075	8	12	.17	106	.04	2	1.11	.01	.05	1
29900E 29975N	1	7	6	39	.3	6	3	206	1.82	2	7	ND	4	24	1	2	3	36	.26	.042	10	13	.23	105	.06	8	.89	.01	.06	2
29900E 30025N	1	6	6	46	.1	6	3	306	1.74	2	5	ND	4	26	1	2	2	33	.25	.028	9	13	.22	113	.06	2	.91	.01	.04	1
29900E 30050N	1	9	8	76	.3	9	4	382	2.13	3	5	ND	4	24	1	2	2	37	.25	.070	10	14	.22	138	.05	4	1.50	.01	.06	1
29900E 30075N	1	7	7	79	.1	8	4	310	2.09	2	5	ND	4	21	1	2	2	36	.22	.084	9	14	.23	125	.05	2	1.23	.01	.04	1
29900E 30100N	1	6	5	42	.1	6	3	175	1.74	2	5	ND	4	24	1	2	2	33	.24	.032	9	11	.22	95	.06	4	.87	.01	.05	1
29900E 30125N	1	6	7	34	.1	6	3	187	1.81	3	5	ND	4	23	1	2	2	36	.24	.034	9	13	.22	93	.06	3	.80	.01	.05	1
29900E 30150N	1	8	6	42	.2	6	3	243	1.79	2	5	ND	4	26	1	2	2	34	.25	.038	9	13	.21	104	.05	3	.92	.01	.06	1
29900E 30175N	1	6	7	78	.2	9	6	721	2.10	3	5	ND	3	26	1	2	2	39	.25	.062	7	15	.18	153	.04	2	1.15	.01	.08	1
30000E 29800N	1	7	7	55	.1	9	5	172	2.29	2	5	ND	3	12	1	2	2	38	.11	.084	7	13	.16	98	.04	2	1.57	.01	.04	1
30000E 29850N	1	6	6	46	.1	5	3	246	1.66	2	5	ND	3	15	1	2	2	32	.16	.037	7	11	.16	74	.04	2	.88	.01	.06	1
30000E 29875N	1	6	7	41	.2	5	2	129	1.46	2	5	ND	3	19	1	2	2	28	.18	.022	8	10	.17	91	.05	4	.89	.01	.03	1
30000E 29900N	1	5	7	56	.1	5	3	121	1.83	3	5	ND	4	14	1	2	2	33	.13	.081	8	12	.13	95	.05	2	1.21	.01	.05	1
30000E 29950N	1	15	8	47	.2	9	5	352	2.45	3	5	ND	5	34	1	2	2	45	.35	.049	14	16	.31	176	.05	3	1.30	.02	.04	1
30000E 29975N	1	25	10	77	.3	16	10	946	3.32	9	5	ND	7	47	1	2	3	57	.57	.075	14	19	.52	211	.06	16	1.38	.03	.10	1
30000E 30025N	2	23	20	145	.8	20	11	960	2.99	14	5	ND	5	84	1	3	2	48	1.21	.083	25	17	.31	699	.01	12	1.64	.01	.09	1
30000E 30050N	1	10	5	46	.1	13	6	155	2.40	9	5	ND	3	27	1	2	2	42	.22	.044	6	14	.23	174	.04	7	1.65	.01	.03	1
30000E 30075N	1	11	6	45	.2	9	4	339	2.14	5	5	ND	5	27	1	2	2	38	.27	.048	11	14	.28	117	.04	2	1.22	.01	.05	1
30000E 30100N	1	10	10	74	.2	8	6	418	2.30	4	5	ND	4	24	1	2	2	41	.19	.097	9	15	.16	146	.03	3	1.60	.01	.05	1
STD C	18	58	38	132	7.1	68	27	1050	3.98	36	20	8	37	47	17	19	22	55	.48	.087	37	55	.90	174	.06	36	1.93	.06	.14	11

Coop Pit
Canada 1
93E/15E,16W

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM
30000E 30125N	1	27	7	53	1.3	11	3	141	1.66	3	5	ND	2	179	1	2	2	10	1.69	.117	34	8	.21	420	.01	12	1.52	.01	.04	1
30100E 29300N	1	8	10	57	.3	7	4	568	1.64	2	5	ND	2	23	1	2	2	29	.22	.050	8	12	.16	130	.04	4	1.11	.01	.04	1
30100E 29825N	1	7	9	70	.2	7	4	433	1.74	2	5	ND	2	21	1	2	2	30	.20	.053	7	11	.17	117	.04	4	1.32	.01	.04	1
30100E 29850N	1	8	8	58	.2	9	4	181	1.85	2	5	ND	3	17	1	2	3	33	.17	.056	7	12	.20	123	.04	7	1.57	.01	.06	1
30100E 29875N	1	6	5	40	.3	5	3	158	1.36	5	5	ND	2	16	1	2	2	26	.16	.026	7	9	.16	81	.05	2	.79	.01	.05	1
30100E 29900N	1	8	6	38	.3	7	3	207	1.59	3	5	ND	2	24	1	2	2	30	.21	.026	10	15	.20	108	.05	2	.99	.01	.04	1
30100E 29925N	1	7	9	73	.1	7	4	283	1.67	3	5	ND	2	18	1	2	3	33	.18	.064	6	11	.14	98	.05	2	1.34	.01	.04	1
30100E 29950N	1	6	7	30	.3	5	3	173	1.26	3	6	ND	2	38	1	2	2	23	.29	.034	9	8	.19	101	.03	5	.68	.01	.12	1
30100E 29975N	1	9	9	47	.1	8	5	263	2.25	6	5	ND	2	22	1	2	2	43	.22	.046	8	14	.25	91	.06	3	.97	.01	.05	2
30100E 30025N	1	10	10	80	.2	9	5	217	2.04	4	5	ND	3	17	1	2	2	37	.16	.068	8	14	.18	128	.05	3	1.69	.01	.06	1
30100E 30050N	1	10	9	80	.2	7	4	490	1.95	2	5	ND	3	22	1	2	2	31	.21	.074	10	12	.18	129	.04	2	1.33	.01	.05	1
30100E 30075N	1	8	8	76	.1	7	5	968	1.81	2	5	ND	1	23	1	2	3	33	.21	.041	9	13	.20	131	.05	2	1.23	.01	.03	1
30100E 30100N	1	8	8	64	.3	9	5	229	2.16	7	6	ND	3	17	1	2	2	38	.17	.072	8	14	.20	118	.05	2	1.44	.01	.06	1
30100E 30125N	1	7	10	95	.2	10	6	529	2.31	2	5	ND	2	22	1	2	2	40	.21	.137	8	21	.16	169	.05	3	1.35	.01	.06	1
30100E 30150N	1	21	8	68	1.1	14	4	316	1.73	5	5	ND	1	4197	1	2	2	21	1.61	.134	39	13	.45	360	.01	9	2.51	.01	.09	1
30200E 29800N	1	10	8	47	.1	9	4	134	1.66	6	5	ND	2	20	1	2	2	28	.16	.038	8	12	.22	148	.05	2	1.75	.01	.03	2
30200E 29825N	1	8	7	40	.1	7	3	144	1.61	3	5	ND	2	19	1	2	3	25	.18	.027	8	12	.22	108	.06	4	1.19	.01	.03	2
30200E 29850N	1	9	10	55	.1	7	4	242	1.50	3	5	ND	2	23	1	2	2	26	.21	.037	9	12	.26	118	.04	6	1.67	.01	.04	1
30200E 29875N	1	6	9	50	.1	7	3	165	1.74	3	5	ND	1	22	1	2	2	32	.20	.047	8	11	.18	102	.06	3	1.08	.01	.04	2
30200E 29900N	1	6	9	65	.2	7	4	318	1.80	2	5	ND	3	18	1	2	3	32	.19	.079	7	12	.16	116	.05	3	1.39	.01	.06	1
30200E 29925N	1	9	10	76	.2	10	5	386	2.07	5	5	ND	3	19	1	2	3	34	.18	.073	8	13	.21	127	.04	3	1.73	.01	.04	1
30200E 29950N	1	8	8	39	.1	6	3	118	1.32	2	5	ND	1	19	1	2	2	23	.17	.030	9	11	.22	101	.04	3	1.41	.01	.03	1
30200E 29975N	1	10	10	76	.1	14	5	197	2.19	4	5	ND	3	15	1	2	2	36	.14	.092	7	16	.23	99	.04	2	2.38	.01	.03	1
30200E 30025N	1	6	10	55	.1	6	3	316	1.52	3	5	ND	1	19	1	2	2	28	.20	.034	9	10	.17	90	.04	3	.96	.01	.04	1
30200E 30050N	1	8	11	66	.1	10	4	194	2.26	3	5	ND	2	21	1	2	2	39	.23	.085	9	16	.24	99	.04	2	1.55	.01	.04	1
30200E 30075N	1	10	9	112	.2	9	4	460	2.12	6	5	ND	2	25	1	2	2	38	.25	.056	13	14	.23	129	.04	4	1.53	.01	.04	1
30200E 30100N	1	15	11	72	.3	13	5	696	2.69	7	5	ND	2	59	1	2	2	48	.42	.053	14	19	.42	222	.03	3	2.53	.01	.06	1
30200E 30125N	1	6	9	73	.1	7	4	441	2.01	2	5	ND	2	14	1	2	2	38	.15	.056	7	12	.14	105	.05	2	1.37	.01	.03	1
30200E 30150N	1	11	10	68	.1	10	5	412	2.12	3	5	ND	3	21	1	2	2	36	.22	.073	9	14	.26	126	.04	5	1.65	.01	.04	1
30200E 30175N	1	18	10	59	.7	13	9	702	3.04	5	5	ND	1	111	1	2	3	46	.58	.056	32	20	.44	234	.01	4	2.13	.01	.05	1
39002	1	14	19	144	.6	16	8	335	2.97	15	5	ND	2	12	1	2	2	44	.15	.083	7	20	.33	79	.04	2	1.91	.01	.04	1
39003	1	33	19	105	.6	21	12	420	3.40	25	5	ND	3	12	1	3	2	50	.14	.068	8	26	.48	90	.04	7	2.16	.01	.04	1
39004	1	12	14	130	.4	14	8	291	3.02	11	5	ND	2	13	1	2	2	42	.17	.090	7	20	.31	57	.04	4	1.76	.01	.03	1
39005	1	19	16	151	.3	17	10	316	3.41	17	5	ND	2	11	1	3	2	48	.15	.065	7	24	.33	86	.04	6	2.34	.01	.05	1
39006	1	10	13	106	.3	10	6	256	3.18	13	5	ND	2	14	1	2	3	48	.18	.050	8	19	.27	58	.03	3	1.61	.01	.03	2
39007	1	20	18	117	.3	18	9	397	3.44	18	5	ND	2	13	1	2	2	49	.15	.075	7	24	.40	77	.04	3	2.18	.01	.02	1
STD C	18	57	39	132	6.5	68	27	1048	3.99	37	19	6	36	47	17	16	21	55	.48	.087	38	55	.90	174	.06	37	1.94	.06	.13	11

Shelford (Huckleberry Mtn. / Coop / Fleet 1 / Fish Hatchery Cr.) 0001-036

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK Au^{*} ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

SAS & Pan

DATE RECEIVED: JULY 07 1988 DATE REPORT MAILED: July 13/88 ASSAYER C. Leong ..D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS to follow

NORANDA EXPLORATION PROJECT-8807-036 255 File # 88-2522

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
32026	1	11	8	98	.4	7	23	1027	5.71	2	5	ND	1	97	1	2	2	132	1.08	.229	33	1	.33	73	.13	7	.98	.17	.07	1	1
32027	1	162	12	75	.3	15	18	863	5.33	2	5	ND	1	28	1	2	2	174	3.68	.113	7	15	1.65	28	.19	15	3.53	.03	.03	1	1
32028	1	11	7	85	.3	7	10	887	4.45	2	5	ND	1	38	1	2	2	65	.89	.084	2	11	1.37	303	.23	7	3.01	.18	1.35	1	1
32029	1	487	8	26	4.2	1	1	58	1.96	26	5	ND	1	2	1	2	119	3	.06	.020	3	2	.07	25	.01	3	.36	.01	.19	1	3
32030	4	150	24	39	9.1	1	1	45	3.28	185	5	ND	1	3	1	7	155	1	.02	.093	4	2	.05	25	.01	8	.38	.01	.22	6	16
32031	1	606	9	102	.6	4	9	1074	6.12	7	5	ND	1	2	1	2	6	42	.05	.031	6	4	.72	18	.05	2	2.08	.02	.21	1	1
32032	1	118	15	167	.6	7	6	1466	6.74	2	5	ND	1	15	1	2	7	125	.77	.051	3	17	.86	41	.14	13	2.92	.13	.25	3	4
32033 host	1	20	5	91	.2	21	11	561	4.17	2	5	ND	2	86	1	2	2	87	1.39	.133	18	45	.46	147	.03	6	.93	.12	.06	1	1
32034 alt	1	33	20	107	.5	11	12	876	3.47	11	5	ND	4	245	1	2	2	47	4.36	.056	11	12	.77	695	.01	7	.40	.01	.08	1	1
32035 alt	1	9	9	76	.2	12	11	668	3.59	2	5	ND	2	218	1	2	2	58	3.68	.095	15	21	1.11	453	.01	11	.46	.02	.08	1	1
32036 vein	1	43	40	154	.6	17	15	1063	5.23	212	5	ND	1	55	1	5	2	57	1.15	.094	10	17	.80	139	.01	13	.50	.01	.07	1	1
32037 "	3	18	23	414	3.6	12	10	938	3.49	196	5	ND	1	57	1	7	2	42	.49	.082	12	13	.21	209	.01	7	.44	.01	.07	1	1
32038 "	4	7	12	127	.1	11	8	586	3.05	47	5	ND	1	79	1	2	2	37	.32	.056	7	12	.21	931	.01	9	.37	.01	.02	1	1
32039	1	3	13	144	.3	16	12	870	3.58	5	5	ND	4	18	1	2	2	53	.35	.107	17	17	.07	93	.01	14	.46	.01	.07	2	1
32040 vein	6	4	23	592	.4	20	14	1738	5.64	229	5	ND	2	26	1	4	2	64	1.28	.082	11	16	.69	37	.01	10	.40	.01	.04	1	1
32041 "	6	28	19	371	.6	8	5	305	2.95	459	5	ND	1	30	1	10	2	22	.39	.044	6	9	.10	30	.01	16	.32	.01	.02	1	1
32042 "	13	5	22	386	.3	9	4	105	2.26	83	5	ND	2	62	1	4	2	33	.13	.070	9	11	.02	351	.01	13	.48	.01	.05	1	1
32043 alt	1	14	39	234	.4	13	11	657	3.31	9	5	ND	2	180	1	2	2	50	2.89	.097	15	15	1.17	469	.01	9	.45	.01	.07	1	1
32044 host	1	16	5	94	.2	12	8	843	3.66	2	5	ND	2	50	1	2	2	75	1.37	.095	14	34	.21	124	.03	7	.63	.04	.07	1	1
36232	1	12	12	55	.2	9	5	216	2.34	2	5	ND	1	36	1	2	2	62	.69	.187	31	4	.19	92	.12	12	.63	.05	.09	1	1
36233	1	12	10	80	.3	5	9	474	3.70	2	5	ND	1	92	1	2	2	105	1.61	.349	29	2	.25	133	.15	10	.92	.13	.14	1	1
36234	1	23	7	69	.3	105	16	490	3.73	2	5	ND	1	73	1	2	2	73	.86	.122	19	46	.33	115	.10	11	1.20	.10	.10	1	1
36235	1	136	20	60	.7	119	16	998	5.29	8	5	ND	1	28	1	2	3	90	2.45	.096	4	126	2.01	12	.20	9	2.25	.04	.02	1	28
36236	1	100	20	66	1.0	76	14	1174	3.41	26	5	ND	1	76	1	2	2	73	3.40	.094	5	97	1.48	19	.18	6	2.39	.19	.04	1	9
36237	1	252	18	180	.4	35	25	987	8.21	12	5	ND	1	4	1	4	2	77	.19	.036	2	50	1.18	30	.04	8	2.11	.01	.05	1	3
36238	9	87	7	22	.2	24	7	150	3.45	12	5	ND	1	21	1	2	2	55	.36	.056	3	30	.98	113	.06	9	1.52	.06	.42	1	1
36251	1	5	36	728	.4	9	5	9032	6.26	1586	5	ND	1	50	3	7	2	6	14.49	.009	3	4	4.28	7	.01	4	.09	.02	.03	1	7
36252	1	102	8	22	.8	4	4	201	.66	43	5	ND	1	6	1	2	2	12	.34	.003	2	4	.14	23	.01	6	.27	.01	.03	1	3
36253	3	4825	393	659	67.4	2	7	393	14.58	99999	5	41	2	7	4	36	258	23	.12	.019	2	6	.21	21	.02	7	.57	.03	.15	176	21800
36254	1	111	56	235	1.3	5	9	1782	7.30	518	5	ND	1	12	1	2	2	246	.34	.047	3	8	1.62	278	.19	6	3.46	.09	.99	1	90
36255	1	127	65	755	2.0	7	7	1252	5.17	1601	5	ND	1	5	3	4	5	81	.19	.061	3	9	1.32	83	.06	2	1.88	.04	.24	5	430
38216	1	38	5	45	.2	5	7	325	2.48	33	5	ND	1	19	1	2	2	43	.55	.050	3	6	.51	996	.08	7	.87	.06	.15	1	6
STD C/AU-R	17	57	40	132	6.6	67	28	1046	4.00	37	19	7	35	47	17	16	19	55	.48	.088	38	55	.90	174	.06	32	1.95	.06	.14	12	515

Coop Pit (Canada 1) 93 E/15,16

RECEIVED JUL 19 1988

Copy to Del

T.T. No.	SAMPLE No.	PPB Au
266	20400E-20340N	10
267	20400E-20360N	10
268	30000N-29800E	10
269	29820	10
270	29840	10
271	29860	10
272	29880	10
273	29900	10
274	29920	10
275	29980	10
276	30000	10
277	30040	10
278	30060	10
279	30080	10
280	30100	10
281	30120	10
282	30140	10
283	30160	10
284	30180	10
285	30000N-30200E	10
[illegible]	29800E-29875N	10
[illegible]	29900	10
288	29925	10
289	29950	10
290	29975	10
291	30025	10
292	30050	10
293	30075	10
294	30100	10
295	30125	10
296	30150	10
297	30175	10
298	29800E-30200N	10
299	29900E-29800N	10
300	29825	10
301	29850	10
302	29875	10
303	29900	10
304	29925	10
305	29950	10
306	29975	10
307	30025	10
308	30050	10
309	30075	10
310	30100	10
311	30125	10
312	30150	10
313	29900E-30175N	10
314	30000E-29800N	10
315	29850	10
316	29875	10
317	29900	10
318	29950	10
319	29975	10
320	30025	10
321	30050	10
322	30000E-30075N	10

Coop Pit
Canada 1

93 E/15E, 16W

T.T. No.	SAMPLE No.	PPB Au
323	30000E-30100N	10
324	30000E-30125N	10
325	30100E-29800N	10
326	29825	10
327	29850	10
328	29875	10
329	29900	10
330	29925	10
331	29950	10
332	29975	10
333	30025	10
334	30050	10
335	30075	10
336	30100	10
337	30125	10
338	30100E-30150N	10
339	30200E-29800N	10
340	29825	10
341	29850	10
342	29875	10
343	29900	10
344	29925	10
[illegible]	29950	10
346	29975	10
347	30025	10
348	30050	40
349	30075	10
350	30100	10
351	30125	10
352	30150	10
353	30200E-30175N	10
354	SOIL 39001	10
355	39002	10
356	39003	10
357	39004	10
358	39005	10
359	39006	10
360	39007	10
361	39008	10
362	39009	10
363	39010	10
364	39011	10
365	39012	10
366	39013	10
367	39014	10
368	39015	10
369	39016	10
370	39017	10
371	39018	10
372	39019	10
373	39020	10
374	39021	10
375	39022	10
376	39023	10
377	39024	10
378	39025	10
379	SOIL 39026	10

Coop Pit
93E/15E, 16W
Canada 1 claim

[redacted]

APPENDIX 6. SAMPLE DESCRIPTIONS

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 93E/15-1E

PROPERTY [redacted] - CANADA 1 claims

DATE 4 July 88

Co-op pit.

ROCK SAMPLE REPORT

PROJECT 255-

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☑ Au ppb	G☐ A☐ Ag ppm	G☐ A☐ Zn	G☐ A☐ As	G☐ A☐ Sr	G☐ A☐ Sb	G☐ A☐ Ca %	SAMPLED BY
32033	Maroon Andesite wk ser/Fe remnant pyrite cavities; no visible mineralization. Chromatic sample.	—	Rock	Grab	1							B.H.L.O.
32034	Malachite (?) stained in bleached porphyritic andesite.	—	Rock	Chip	1	Ba 845			245		4.36	B.H.
32035	Bleached porphyritic andesite chromatic sample. No visible mineralization	—	Rock	Grab	1	Ba 453			218		3.60	B.H.
32036	2 mm qv in bleached porphyritic andesite.	1% py	Rock	Chip	1			229				B.H.
32037	50 cm chip sample of limonitic stained vein - possible extension of main vein	tr py	Rock	Chip	1	3.6	414	459		10		B.H.
32038	3 cm quartz vein with extensive limonitic staining and weathered pyrite cavities.	1% fine.	Rock	Grab	1	Ba 931						B.H.

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 93E/15-16

PROPERTY [redacted] - CANADA 1 claims

DATE 4 July 88

Co-op Pit

ROCK SAMPLE REPORT

PROJECT 255

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☑ Au	G☐ A☐	G☐ A☐ Zn	G☐ A☐ As	G☐ A☐ Sr	G☐ A☐	G☐ A☐	SAMPLED BY
32039	Rhyolite? Andesite? chloritic sample with remnant pyrite cavities.	—	Rock	Grab	1							Bill D.
32040	Qtz quartz vein in "main vein area"	1% fine gr Py	Rusty Rock	Grab	1		592	229				"
32041	5 m NE of 32040 - same unit	"	"	"	1		371	459				"
32042	10 m NE of 32040 - same unit	"	"	"	1		386					"
32043	Bleached porphyritic rhyolite bordering on a rhyolite - 1% dark brown shiny mineral (hematite? sphalerite?)	— fine gr Py	bubble	Grab	1	Ba 469			180		2.89	"

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 93E/15E, 16W

PROPERTY Shelford (Co-op #7)

DATE 04/07/88

ROCK SAMPLE REPORT

PROJECT 255

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	G☐ A☐	SAMPLED BY
[illegible]												G. Clark
32044	30200N - 30160N an outcrop of reddish dacite where plagioclase phenocrysts have been weathered and or replaced by limonite.		rock	grab								

G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 93E / 16W

AREA / PROPERTY CANADA 1 CLAIM Collection DATE July 25, 89

GCI # **SAMPLE REPORT** Lab Code: PROJECT 260

SAMPLE NO.	LOCATION & DESCRIPTION outcrop / float	% SULPHIDES	TYPE material	WIDTH m	ppb Au	Ag ppm	Pb ppm	Zn ppm	As ppm	Mn ppm	Others	SAMPLED BY
	sample taken to pyrite, qtz.											
100817	veining (4), greatly altered, 29981E, 29996 N and sample az.= 130; host rock of altered dacite also sampled	5-15	chip	1m	11	4.8		603	354		Sb 20	Paul Turnbull
	sample taken to altered pyrite,											
100818	qtz. veining (1) at 30022E, 29997N with az = 130; altered dacite host rock sampled	5-15	chip	1m		1.7		752	191		Sb 11	P.J.
	sample taken perpendicular to altered											
100819	pyrite, qtz veining (5) at 30024E, 29997N with az. = 130; host rock of altered dacite	5-15	chip	2m				652	262		Mo 11	P.J.
	sample taken perpendicular to strike											
100820	of pyrite, qtz. veining (sample az.=130); 4 veins visible within the one metre sample; altered dacite host rock at 30025E, 29996N	5-15	chip	1m				963	216			P.J
100821	sample taken across strike of altered dacite with qtz., pyrite veining (4); sample az. = 130 and extends ½ metre on either side of vein at 30030E, 29998 N	5-15	chip	1m				579	355			P.J.

report by:
G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 93E /16W

AREA / PROPERTY CANADA I CLAIM Collection DATE July 25, 89

GCI # SAMPLE REPORT Lab Code: PROJECT 260

SAMPLE NO.	LOCATION & DESCRIPTION outcrop / float	% SULPHIDES	TYPE material	WIDTH m	ppb Au	Ag ppm	Pb ppm	Zn ppm	As ppm	Mn ppm	Other ppm	SAMPLED BY
	sample taken ⊥ to strike of											
100822	thick (~20cm) qtz., pyrite, barite, calcite	15-20	chip	1m				445	197		Ba 632 Mo 10	Paul Turnbull
	vein at 30040E, 29998N; highly											
	altered dacitic host rock											
	sample taken across strike of ~~qtz.~~,											
100823	pyrite, barite, calcite veins (2) at	15-20	chip	1m				400	225		Mo 10	P.J.
	30039E, 29997N with az. = 130;											
	dacitic host											
	high graded sample taken at 30023E,											
100824	29997N in dominant qtz., pyrite vein;	5-15	rock ~~grab~~	grab ~~25cm~~			44	913	1094		Sb 13 Mo 18	P.J.
	az. = 040 (of vein); highly altered											
	dacite is host rock											
	high graded sample taken at											
100825	30031E, 29997N in dominant qtz.,	5-15	rock ~~grab~~	grab ~~25cm~~				283	359			P.J.
	pyrite vein; altered dacitic host rock											

report by:
G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 93E/16W

AREA / PROPERTY CANADA 1 CLAIM Collection DATE July 25, 89

GCI # **SAMPLE REPORT** Lab Code: PROJECT: 260

SAMPLE NO.	LOCATION & DESCRIPTION outcrop / float	% SULPHIDES	TYPE material	WIDTH m	ppb Au	Ag ppm	Pb ppm	Zn ppm	As ppm	Mn ppm	Other ppm	SAMPLED BY
	sample taken perpendicular to strike											
100997	of large pyrite, quartz, barite, calcite veins(2) at 30036E, 29997N with az. =130; altered dacite host rock sampled	15-20	chip	1m				628	328			Paul Jurasko
	sample taken across 4 highly altered											
100998	fine grained pyrite, qtz. veining systems at 29994N, 29989E with sample az. = 130; purple stained dacite was host rock	20-25	chip	2m			51	373	985		Sb 15 Mo 12	P.J.
100999	sample b to pyrite, quartz veining at 29990E, 29996N; contained were 3 highly altered veins with az. = 040; purple stained dacite was host rock	~20	chip	1m			31	992		2953		P.J.
	sample chipped across strike of											
101000	massive fine grained pyrite, qtz. veining at 29988E, 29996N; there were 4 visible highly altered veins at az = 040; dacite with purple staining was the dominant host rock	~20	chip	2m		3.8	61	806	101	2137	Sb 15	P.J

report by:
G = GEOCHEM A = ASSAY

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 93E /16W

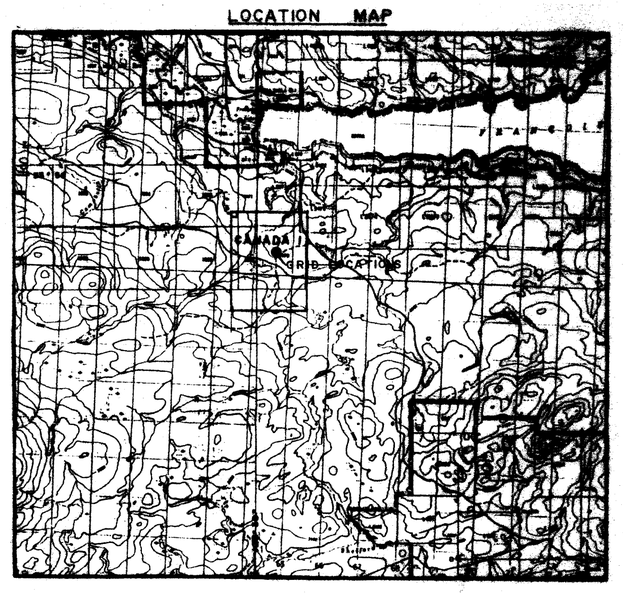
AREA / PROPERTY CANADA I CLAIM Collection DATE July 25, 89

GCI # **SAMPLE REPORT** Lab Code: PROJECT 260

SAMPLE NO.	LOCATION & DESCRIPTION outcrop / float	% SULPHIDES	TYPE material	WIDTH m	ppb Au	Ag ppm	Pb ppm	Zn ppm	As ppm	Mn ppm	Other ppm	SAMPLED BY
	sample taken across strike of 040 az.											
108001	veining system (3 veins) at 29983E,	15-20	chip	1m				981		2412		Paul Jumb
	29993N; veins consist of massive											
	fine grained pyrite, quartz in a purple											
	stained dacitic host rock											
108002	sample taken at 29981E, 29996N	~20	rock	grab								P.J.
	from one large, highly altered vein;											
	sample taken from highest visible sulfide											
	concentration											

report by:
G = GEOCHEM A = ASSAY

LOCATION MAP



0 1 2 3 4 kilometres
SCALE 1:100,000

L. 30,045E.
L. 30,040E.
L. 30,035E.
L. 30,030E.
L. 30,025E.
L. 30,020E.
L. 30,015E.
L. 30,010E.
L. 30,005E.
L. 30,000E.
L. 29,995E.
L. 29,990E.
L. 29,985E.
L. 29,980E.

B./L. 30,000N. Az. 040°
30,995N.
30,990N.
30,985N.
30,980N.

Rubble
Overburden
POND
TOE OF PIT
CREST OF PIT

32042 Qtz. v. V_3 100822 100823 32041 V_3 32039 100997 32040
Qtz. v. 32038 V_3
Qtz. v. 100825 100821 V_3 Qtz. v. 90° 60° 90°
V_3 55° Qtz. v. 55° 100820 Qtz. v. 100819 100824 100818 55° 30° 90° V_3
32036 Qtz. v. V_3 V_3
Qtz. v. 32037 Qtz. v. 40° 101000 38° 100999 40° 100998 40° V_3 V_3
Qtz. v. 62° 43° 62° V_3
Qtz. v. 108002 V_3
Qtz. v. 108001

L E G E N D

ROCK TYPES

V_3 PORPHYRITIC DACITE –, phenocrysts of plagioclase (see report text for detailed description)

VEINING - Qtz., pyrite, arsenopyrite, barite, calcite (see report text for detailed description)

SYMBOLS

- Crest of Pit
- Toe of Pit
- Outcrop
- Pond
- 100821 — Location of chip samples
- 100825 X — Location of rock samples
- Hematite veining
- Qtz. Veining
- 45° — Strike and dip of veining
- 40° — Vertical dip and strike

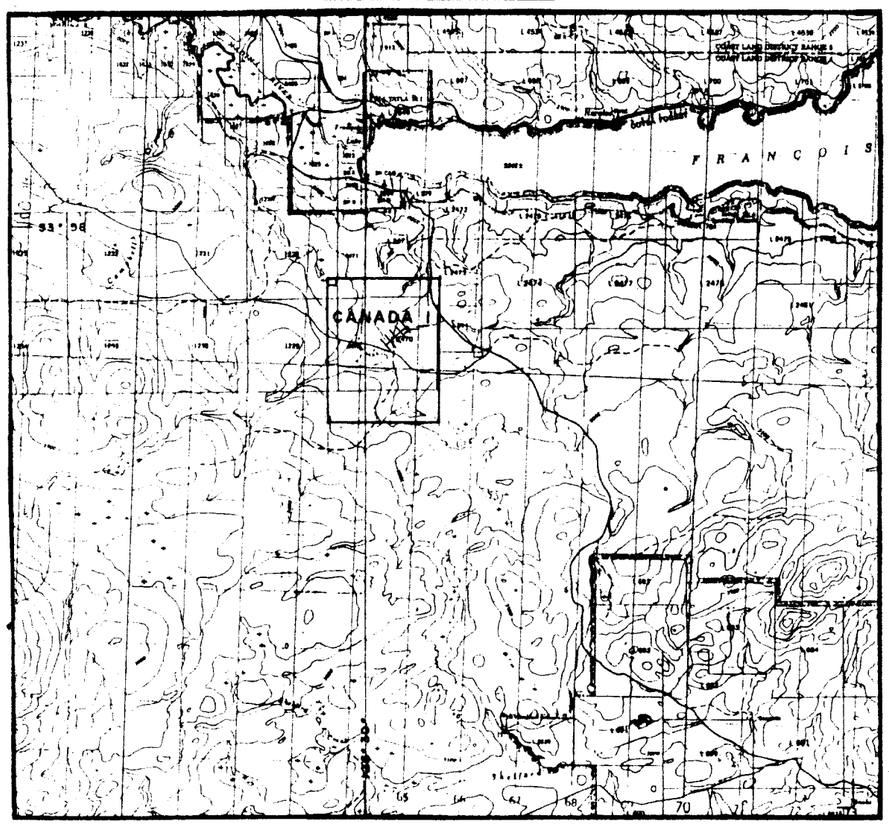
GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,238

0 1 2 3 4 5 6 7 metres
SCALE 1 100

REVISED	CO-OP PIT
	CANADA I CLAIM DETAIL STRUCTURE AND GEOLOGY OF PIT
PROJ. No. 272	SURVEY BY: M.L. DATE: JULY., 1989
N.T.S. 93E/15, 16	DRAWN BY: S.K.B. SCALE: 1:100
DWG. No. FIG. 4	NORANDA EXPLORATION
	OFFICE: PRINCE GEORGE, B.C.

LOCATION MAP



0 1 2 3 4 kilometres
SCALE 1 : 100,000

30,200N
30,100N
29,900N
29,800N
30,200E
30,100E
30,000E
29,900E
29,800E
B/L 30,000 Az 040°
PIT
CAMP
POND

LEGEND

10/34 Soil Geochem results on Grid Au(ppb)/Zn(ppm)

Outline of pit

Au ≤ 10 ppb, no anomalies

Zn ≤ 200 ppm no anomalies

0 50 100 150 200 metres
SCALE 1 : 2,500

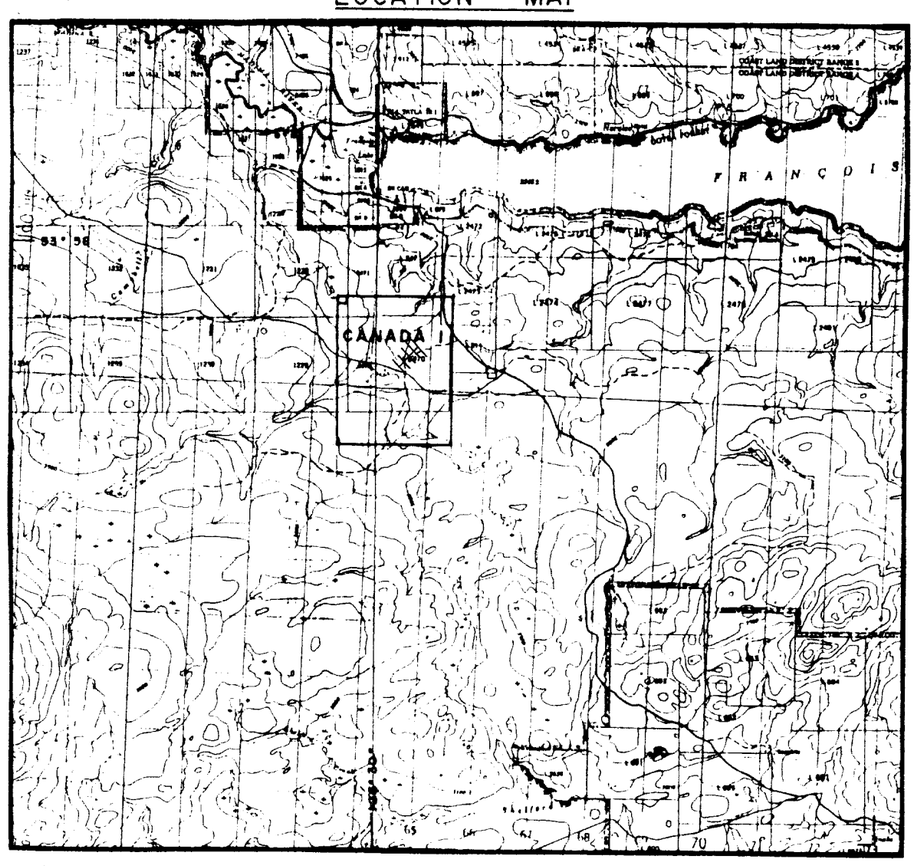
REVISED	CO-OP PIT
DEM Jan, 90	CANADA 1 CLAIM SOIL GEOCHEM SURVEY Au(ppb)/Zn(ppm)
PROJ. No. 272	SURVEY BY: M.L DATE: July , 1989
N.T.S. 93E/15,16	DRAWN BY: S.K.B SCALE: 1:2500
DWG. No. FIG. 5	NORANDA EXPLORATION OFFICE PRINCE GEORGE, B.C

VANCAL 11918

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,238

LOCATION MAP



0 1 2 3 4 kilometres
SCALE 1 : 100,000

30,200N
30,100N
B/L 30,000 Az 040°
29,900N
29,800N
30,100E
30,000E
29,900E
29,800E
30,200E
PIT CAMP
N.A.
702/234
412/126
441/105
696/222
460/129
194/99
316/90
293/149
197/99
118/101
386/127
318/116
155/102
242/118
144/108
134/148
316/360
529/163
229/118
968/131
490/129
217/128
268/127
97/94
162/165
104/125
154/113
265/91
173/101
283/98
207/108
158/81
181/123
433/117
568/130
418/146
339/117
155/174
960/694
397/642
329/218
182/123
224/94
946/211
352/176
121/96
129/91
246/74
172/98
141/420
721/153
243/104
187/93
175/95
2290/225
227/118
136/126
132/122
150/96
167/90
182/175
161/132
011/22
310/125
382/138
306/113
242/121
179/104
193/112
168/106
206/105
168/106
256/96
162/153
147/166
369/101
143/105
186/146
405/114
751/176
159/135
258/130
144/108
1225/623
POND
NO anomaly obs

LEGEND

134/148 Soil Geochem results on Grid Mn/Ba(ppm)

Outline of pit

Mn ≥ 2000 ppm (n = 1)

Ba ≥ 400 ppm (n = 4)

0 50 100 150 200 metres
SCALE 1 2,500

REVISED	CO-OP PIT
DEM Jan., 90	CANADA I CLAIM SOIL GEOCHEM SURVEY Mn / Ba (ppm)
PROJ. No. 272	SURVEY BY: M.L. DATE: July, 1989
N.T.S. 93E/15,16	DRAWN BY: S.K.B SCALE: 1:2500
DWG No. FIG. 6	NORANDA EXPLORATION OFFICE PRINCE GEORGE, B.C.

FRANCOIS LAKE

Road from NW end of FRANCOIS LAKE

CANADA I

LCP

MOSQUITO LAKE

CO-OP PIT
76033 - 35, 76091
86590 - 92

PIT CAMP

DESERTED CABIN

Morice - Owen F.S.R.

Km 71

36107
36020
36108
76084
34019
36018
36085
76086
76085
36147
36105

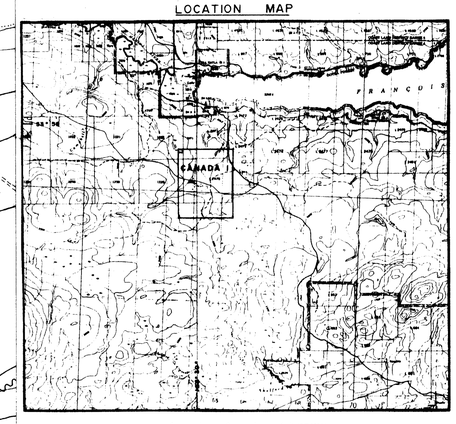
2500
3000
3500

53°57'

5,979,000m. N

647,000m. E.

LOCATION MAP



0 1 2 3 4 kilometres
SCALE 1 : 100,000

LEGEND

ROCK TYPES

V_3 DACITE

V_4 RHYOLITE

a altered
py pyrite
por porphyry
r rusty

SYMBOLS

36147 x Rock sample, outcrop

• Rock sample, float

Airphoto and Satellite image linears

36105 Silt sample locations

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,238

0 500 1000 metres
SCALE 1 10,000

REVISED	CO-OP PIT
	CANADA I CLAIM SAMPLE LOCATIONS AND GEOLOGY
PROJ. No. 272	SURVEY BY: M.L. DATE: JULY, 1989
N.T.S. 93E/15,16	DRAWN BY: S.K.B SCALE: 1 10,000
DWG. No. FIG. 3	NORANDA EXPLORATION
	OFFICE PRINCE GEORGE, B.C.