ASSESSMENT REPORT

PROSPECTING, GEOLOGY, AND GEOCHEMISTRY

PINENUT PROPERTY

RAVEN 1-6, SILVERTON 1-2 CLAIMS
Record Nos. 7880-7885, 8254, 8255

OMINECA MINING DIVISION
BRITISH COLUMBIA

NTS 93 M/ 5E, 6W

Latitude 55 deg. 25' N 32"
Longitude 127 deg. 31' W 08"

Work Performed:
AUGUST 1987

Owner(s): NORANDA EXPLORATION COMPANY, LIMITED, Paul Huel
(NO PERSONAL LIABILITY)
3A-1750 Quinn Street
Prince George, B.C.
V2N 1X3

Report by:
Del Myers
Project Geologist

December 1987

Operator: Noranda Exploration Company, Limited

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SUMMARY

Quartz-arsenopyrite veins sampled by P. Huel in 1986 gave gold values up to 0.94 opt from the Raven 1-6 claims. Follow-up prospecting, geology, and geochemistry was undertaken in August 1987 on the Raven and Silverton claims.

Twenty man-days were spent on the claims. Ninety-six rock, fifteen stream sediment, and sixty-nine soil samples were taken over and next to a granite stock with associated quartz-arsenopyrite veins. Values of up to 0.88 opt Au, 28.9% As, 3.0 opt Ag, and 8.36% Zn were obtained from different rock grab or chip samples up to 0.27m wide. Soil results indicate a significant As-Zn-Mo anomaly.

Further work is recommended in areas not covered by August work, mainly below treeline to look for additional areas of Au-bearing mineralization, perhaps as disseminated or stockwork zones or as wider quartz-arsenopyrite veins.

INTRODUCTION

PURPOSE

Sampling by Paul Huel in 1986 gave high gold values from quartz veins found on the Raven 1-6 claims. The purpose of this work was to investigate this mineralization and locate additional mineralization on the property.

LOCATION AND ACCESS

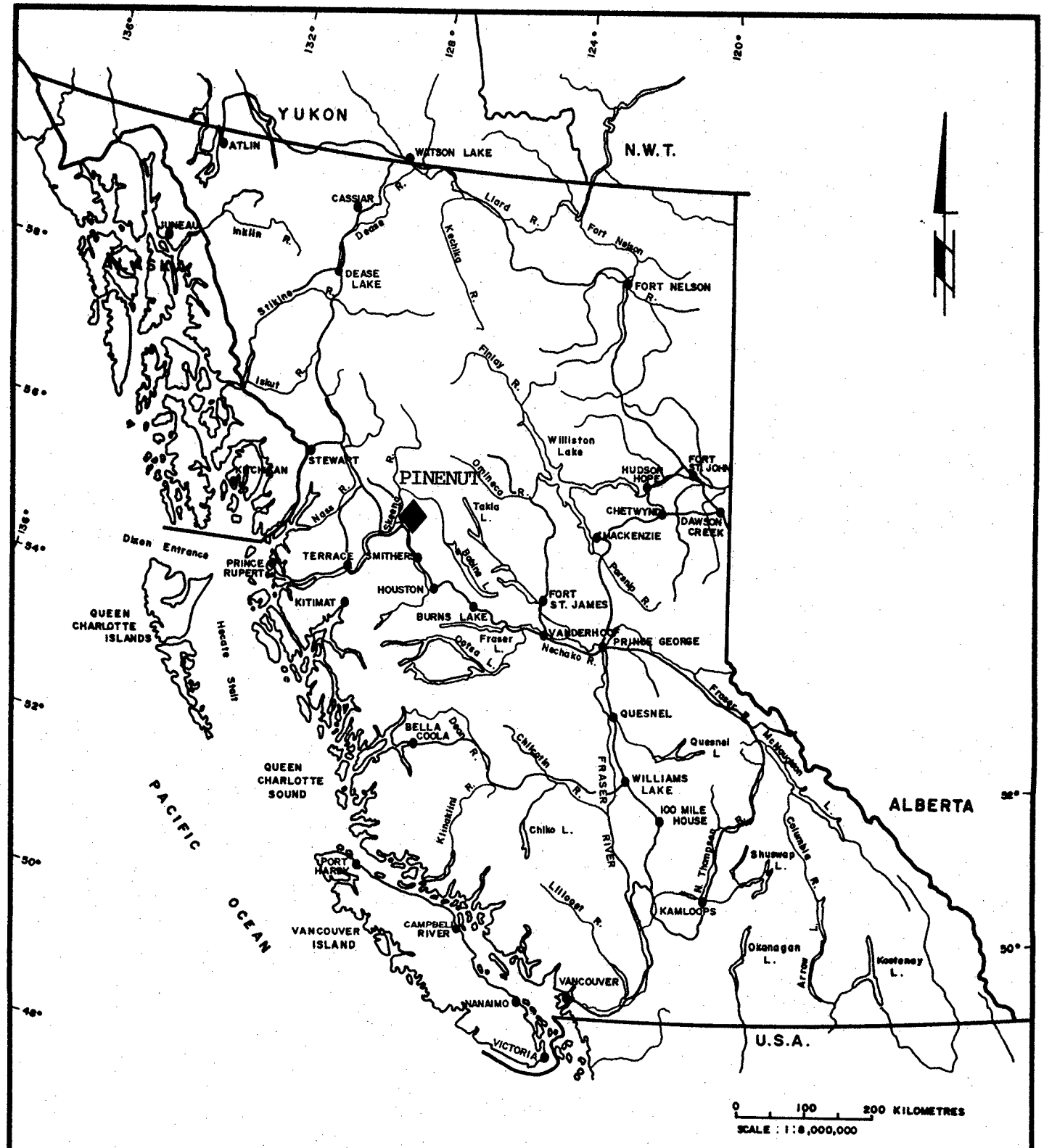
The Pinenut property is located is located 22 km NNE of Hazelton, B.C. (Figure 1). The property lies on the south slope of Sidina Mountain north of Pinenut Creek, a tributary of the Skeena River.

The property covers ground ranging from 1035 m (3400 feet) to 1828 m (6000 feet) in elevation. The claims are covered by balsam-rich forest below treeline and by alpine meadows above treeline, which is about 1524 m (5000 feet) a.s.l.

Access to the property was via logging roads to an elevation of about 760 m (2500 feet) south of Pinenut Creek. From here a helicopter was used to shuttle men, equipment, and supplies onto the property. An old pack trail is supposed to lead to the property along the north side of Pinenut Creek, but it was not used for this work.

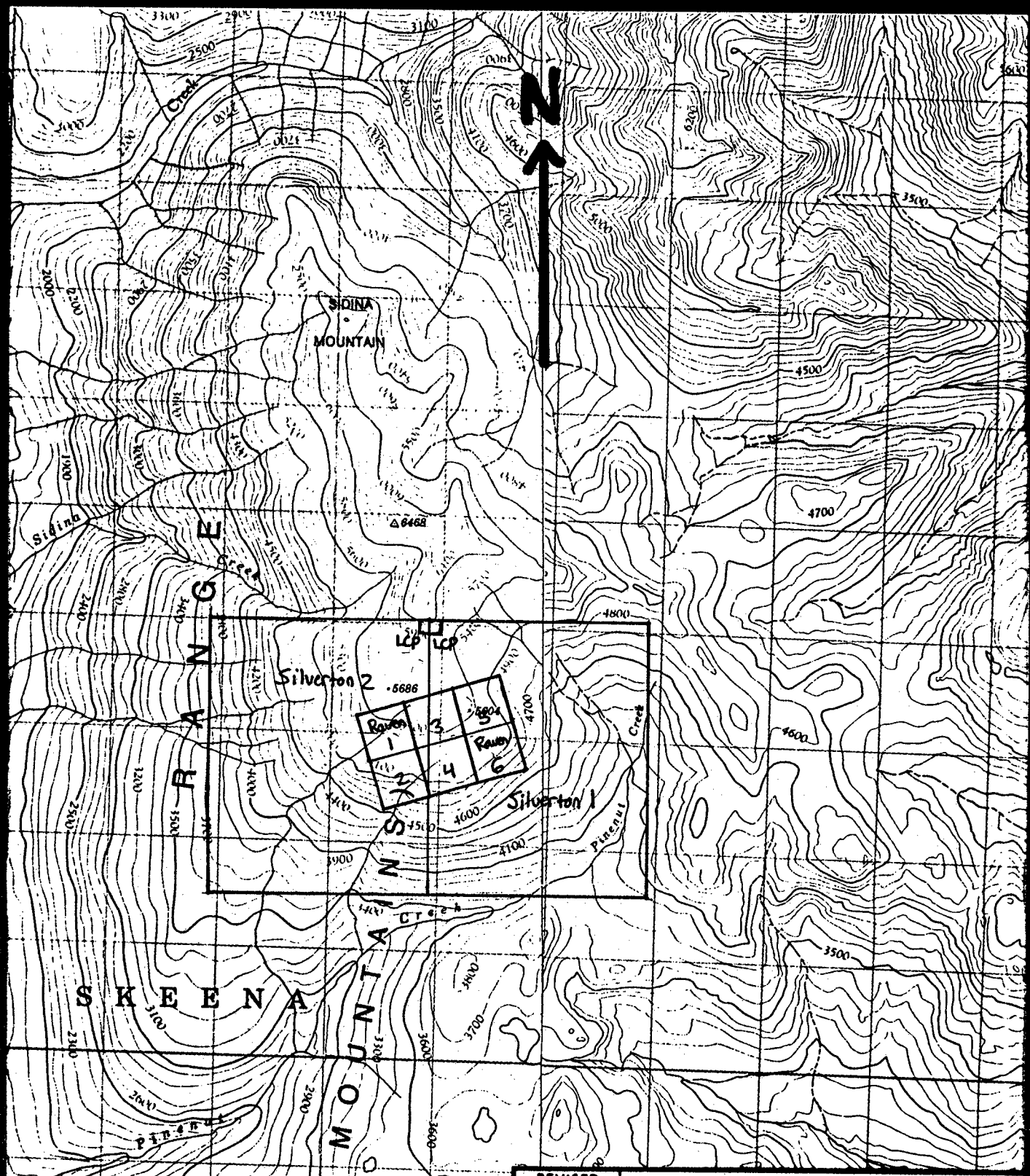
PROPERTY

The property consists of eight claims as listed in Table 1. Noranda Exploration holds an option to purchase the claims from the owner, Paul Huel of Kispiox. The claims are shown on Figure 2.



REVISED	PINENUT PROPERTY
	LOCATION MAP
PROJ. No. 287	SURVEY BY: dm DATE: Dec/87
N.T.S.	DRAWN BY: S.K.B. SCALE: 1:8,000,000
DWG. No. Fig. 1	NORANDA EXPLORATION
	OFFICE: PRINCE GEORGE, B.C.

VANCAL 11927



REVISED	PINENUT PROPERTY
	CLAIM MAP
PROJ. No. 287	SURVEY BY: DEM Jr DATE: Dec/87
N.T.S.	DRAWN BY: SCALE: 1:50,000
DWG. No. Fig. 2	NORANDA EXPLORATION OFFICE: Prince George, B.C.

Table 1. List of Claims

Claim	Rec.No.	Type	Units	Owner	Record Date
Raven 1	7880	2P	1	P. Huel	8 Sep. 86
Raven 2	7881	2P	1	"	"
Raven 3	7882	2P	1	"	"
Raven 4	7883	2P	1	"	"
Raven 5	7884	2P	1	"	"
Raven 6	7885	2P	1	"	"
Silverton 1	8254 ~~7886~~	MG	20	"	27 Mar. 87
Silverton 2	8255 ~~7887~~	MG	20	"	"
			--		
			total 46 units		

REGIONAL GEOLOGY

The Pinenut property is underlain by Upper Jurassic fluvial and deltaic sediments of the Bowser Lake Group (Tipper and Richards, 1976). The clastic sediments are variably hornfelsed by late Cretaceous, felsic, Bulkley intrusives. The property lies along the northern edge of a broad structural high known as the Skeena Arch within the Intermontaine Belt of the Canadian Cordillera.

Three directions of faults are mapped in the area around Sidina Mt. These have azimuths of about 10, 70, and 160 degrees (GSC Open File 720 (1980)).

PREVIOUS WORK

No assessment reports are available for any previous work over the area covered by the claim. Old claim posts exist on the claims and many of the veins have been hand trenched some years ago. Showing 93M-38 of the B.C. Mineral Inventory undoubtedly refers to showings examined this August. MMAR 1912 (p.K98) describes the Silverton group after which two of the present claims were named.

WORK UNDERTAKEN

Four men spent one day (8 August 1987) prospecting and sampling the property. Twenty rock samples and thirteen stream sediment samples were collected.

A lightweight camp (Camp 1 - Figure 3) was established on the property and four men spent four days (14-17 August 1987) working from this camp. Seventy-six rock samples, two stream sediment samples, and two lines of B-horizon soil samples (sixty-nine samples) were taken. Prospecting was confined to areas above treeline on the claims.

A small grid was established using hipchains and compasses. The baseline runs parallel to but about 7 m north of the Raven 1-6 location line. Stations were marked with wooden lathes or Tyvex tags at 50 m intervals. A baseline 1350 m long and six short sidelines totaling 1350 m were marked.

The two soil lines approximating contour lines around part of Sidina Mountain were run. Samples were taken at either 20 or 50 m intervals along the lines depending on the sampling density desired. Soil samples were taken using soil augers at variable depths of from 10 to 90 cm depending on the thickness of the A-horizon. Samples were placed in kraft bags for drying, dried, and shipped to the Noranda Geochemical Laboratory in Vancouver for processing.

All samples were then analysed by Acme Analytical Laboratories by either ICP or AA methods depending on the element and the type of sample (see Appendix 3).

RESULTS

GEOLOGY AND PROSPECTING

Four mappable units were defined on the property:

Unit 1. (Hf) is variably hornfelsed clastic sediments, gray to black, consisting of contact metamorphosed claystones (S1), siltstones (S2), and sandstones(S3). This unit is folded into a syncline with a N-S axis passing about 300 m east of the Silverton 1 LCP. These are Bowser Lake Group sediments.

Unit 2. (P4) is granite to granodiorite, medium grained, massive, one and two feldspars, quartz, and chlorite after biotite, some sericitic alteration noted, minor pyrite and rare molybdenite mineralization noted (disseminated and fracture coating). This is a Bulkley intrusive.

Unit 3. (H4) is rhyolite and rhyolitic quartz porphyry, white to cream colored, very fine grained except for medium grain quartz phenocrysts in places. Unit 3 cuts units 1 and 2. This is a late stage of a Bulkley intrusive?

Unit 4. (H2) is andesitic dike, fine to very fine grained, dark greenish gray, which cuts units 1 and 2. Age relation to unit 3 is unknown.

Three types of mineralization were noted on the property:

1. Quartz-arsenopyrite-pyrite-sphalerite-galena-tetrahedrite veins up to about 30 cm wide with some mineralization found as narrow halos in the wall rock. These veins are best exposed and most common in unit 2 granites but are also common in nearby hornfels.

2. Rusty hornfels and hornfels with pyrite-pyrrhotite pods or blebs, no particular association to quartz-arsenopyrite veins noted.

3. Molybdenite and molybdenite-pyrite-pink feldspar fracture coatings in granite (unit 2).

Figure 3 shows a small granitic stock which is cut by rhyolitic dikes and surrounded by hornfels (not mapped). Several quartz-arsenopyrite veins are mapped over lengths of 50 to 100 m and have strikes of 90 and 160 degrees. Other strikes noted from smaller veins are about 20, 45, 70, and 110 degrees. Dips range from about 40 to 70 degrees although one vein striking 110 degrees had a dip of 18 degrees.

Quartz-arsenopyrite mineralization is centered about 1200 m south of the Silverton 1 LCP, coincident with a granite stock.

The iron sulfide in hornfels mineralization is peripheral to this. The distribution of molybdenite mineralization is not known with confidence.

Ninety-six rock samples were analysed at Acme Analytical Labs for 16 elements by their ICP assay procedure. The results are given in Appendix 3 and on Figure 3. Statistics on some elements analysed are as follow:

Element	Low Value	Sign. Value*	High Value	% > Sign. Value
Mo	.001%	.1 %	.012%	0 %
Cu	.01	.2	.62	2
Pb	.01	1.0	2.16	2
Zn	.01	1.0	8.36	10
Ag	.01 opt	1.0 opt	3.09 opt	19
Au	.001opt	0.02opt	.882opt	51
As	.01 %	1.0 %	28.9 %	58
Sb	.01	.5	.84	1

*significant value - economically or environmentally significant

Inspection of the values above shows that the main economic interest on the property is for Au-As mineralization with some values for Ag-Zn also.

Examination of Figure 3 shows a wide distribution for significant Au and As values in rock samples and possibly a more restricted distribution of significant Ag and Zn values more or less coincident with the baseline.

SOILS AND STREAM SEDIMENTS

Sample locations are shown on Figure 4. Analytical reports are given in Appendix 3. Samples taken in October 1987 are also shown of Figure 4, although results are not discussed here.

Of the fifteen silt samples analysed by Acme for 30 elements by ICP and for Au by AA the following values were obtained:

	Low	Threshold	High	# > Threshold
Mo	1 ppm	10 ppm	31 ppm	2
Cu	25	100	92	0
Pb	14	25	122	5
Zn	100	250	756	4
Ag	.1	1.4	1.7	1
Au	.001	.020	.101	2
As	9	100	1477	6
Sb	2	10	24	3

Threshold values are selected on the basis of past experience. Au silt anomalies are somewhat less frequent than the rock geochemistry results would indicate, while lead and antimony silt anomalies are more frequent.

All the silt anomalies are located downstream from known mineralization except for an arsenic anomaly in sample 99144 (Figure 4).

The sixty-nine B-Horizon soil samples were analysed by Acme for 30 elements by ICP plus Au by AA with the following important results:

Element	Low	Threshold	High	# > Threshold
Mo	1 ppm	10 ppm	33 ppm	19
Cu	18	100	158	3
Pb	4	50	161	4
Zn	66	250	1099	23
Ag	.1	1.4	7.1	2
Au	.001	.020	.053	2
As	19	100	1061	38
Sb	2	10	10	2

The threshold values again were chosen from past experience and are almost identical to those chosen for silt samples. Mo, Zn, and As soil anomalies are common in the area sampled. Molybdenum anomalies are more frequent than would be predicted of the basis of rock analyses, while Au and Ag anomalies are less frequent than would be predicted. Possible reasons for this include:

1. Molybdenum mineralization is more widespread and Au and Ag mineralization is less widespread than predicted by rock sampling due to rock sampling bias.

2. High background levels or large sources for Mo in the area and low background levels or small sources for Au and Ag.

3. Low Au and Ag mobility, high Mo mobility resulting in erroneous soil results.

Figure 4 shows that As soil anomalies are most widespread with Zn and then Mo anomalies being more restricted. The anomalous zones are open to the west.

CONCLUSIONS

A large number of quartz-arsenopyrite-sphalerite veins are found in and around a granitic Bulkley intrusive and surrounding hornfels. High grades for Au-As-Ag-Zn occur but over narrow widths (<0.3 m). Minor mineralization occurs in narrow selvages. These veins are too narrow and too far apart to be of economic interest in themselves.

Silt sampling to date indicates As-Pb-Zn anomalies in the area of the Raven 1-6 claims and above.

Soil sampling indicates a significant As-Zn-Mo anomaly on the Raven 1-6 claims. This anomaly is open to the west.

RECOMMENDATIONS

1. Further work should be directed to locating additional Au mineralization as lower grade, large tonnage disseminated or stockwork zones or as higher grade veins of greater width than found so far on the Raven 1-6 claims.

REFERENCES

- , 1913. "Silverton Group" in Minister of Mines Annual Report 1912. Victoria, B.C., pp. K98-99.

Richards, T.A., 1980(?). Geologic map, Hazelton, B.C., NTS 93M, GSC Open File 720, Ottawa, Ont., 1 sheet.

Tipper, H.W. and Richards, T.A., 1976. Jurassic Stratigraphy and History of North-Central British Columbia. GSC Bulletin 270, Ottawa, Ont., 73 pp.

APPENDIX 1. STATEMENT OF QUALIFICATIONS

Relevant Training

B.Sc. (1970) Pennsylvania State University
University Park, Pa., USA
Geological Sciences

M.Sc. (1973) University of Toronto
Toronto, Ontario, Canada
Geochemistry

Relevant Experience

1973 - 1980 Exploration and Mine Geologist
Cominco Ltd.
Vancouver and Yellowknife

1980 - 1982 Exploration Geologist
Noranda Exploration Co., Ltd.
Yellowknife, N.W.T.

1982 - 1983 Exploration Geologist
Noranda Exploration Co., Ltd.
Smithers, B.C.

1983 - Exploration Geologist
Noranda Exploration Co., Ltd.
Prince George, B.C.

Professional Affiliations

Fellow, Geological Association of Canada

Member, Association of Professional Engineers, Geologists, and Geophysicists of the Northwest Territories

Member, Canadian Institute of Mining and Metallurgy

Delbert E. Myers, Jr.
Project Geologist
2 December 1987

Statement of Qualifications

I, Robin C. Day, of 441 Parkland Village, Spruce Grove, Alberta, do certify that:

1. I am a graduate of the University of Alberta, where I obtained a B.Sc. (Concentration in Geology) in 1976.

2. I have practiced my profession as a geologist, mostly in British Columbia, Yukon, and Northwest Territories, for the last eleven years.

R. C. Day

Robin C. Day

Spruce Grove, Alberta
Dated this 30 day
of November, 1987

APPENDIX 2. STATEMENT OF COSTS

Labor	20 man-days at $ 175	= $	3,500
Food and accommodations	20 man-days at $ 30		600
Supplies			-
Helicopter	6.1 machine hours at $460		2,806
Truck Rentals, fuel			300
Analyses			
Acme Analytical Labs.			
96 rocks for 16 elements by ICP	96 x $23		2,208
15 silts for 30 elements by ICP	15 x $6.75		101
15 silts for Au by AA	15 x $4.25		63
69 soils for 30 elements by ICP	69 x $6.75		465
69 soils for Au by AA	69 x $4.25		293
Freight on samples			32
Expediting services			128
Report Preparation			
Author and typing	2 man-days at $ 230		460
Drafting	1 man-day at $170		170
	Total cost	$	11,126

3 December 1987

APPENDIX 3. ANALYTICAL RESULTS

Pinemut Cr (RD)

8708-112

ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

.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 CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOIL AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.
P3 - SILT

DATE RECEIVED: AUG 24 1987 DATE REPORT MAILED: Sept 2/87 ASSAYER: D. Toye .DEAN TOYE, CERTIFIED B.C. ASSAYER

NORANDA EXPLORATION (VAN) PROJECT-8708-112 289 File # 87-3555 Page 1

SAMPLE#	≥10 MO PPM	≥100 CU PPM	≥50 PB PPM	≥300 ZN PPM	≥2 AG PPM	NI PPM	CO PPM	MN PPM	FE %	≥100 AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	≥10 SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	≥10 W PPM	≥20 AU* PPB
Soils																															
SOIL 1	7	73	96	332	.3	10	18	1228	5.70	805	5	ND	1	17	2	9	2	41	.13	.150	10	13	.52	48	.01	2	2.53	.01	.07	13	30
SOIL 2	7	47	35	307	.8	12	9	901	4.29	212	5	ND	1	51	2	2	2	37	.48	.197	11	13	.47	58	.01	3	2.52	.02	.07	1	4
SOIL 3	5	18	20	87	.5	7	6	610	3.40	149	5	ND	1	37	1	4	2	46	.36	.113	8	10	.20	67	.01	2	1.89	.01	.05	2	1
SOIL 4	24	116	42	927	1.1	12	14	3234	4.19	882	5	ND	1	71	6	10	2	32	.73	.335	21	15	.37	66	.01	3	3.08	.01	.07	1	1
SOIL 5	7	62	32	439	.5	14	11	676	4.76	579	5	ND	2	56	2	7	2	39	.54	.084	9	13	.48	77	.01	3	2.65	.01	.06	1	9
SOIL 6	5	158	25	416	.6	11	10	773	3.99	445	5	ND	1	53	9	6	2	33	.59	.123	19	15	.31	50	.01	6	2.11	.01	.06	1	4
SOIL 7	5	29	32	183	.4	4	5	479	2.17	241	5	ND	1	46	3	5	2	35	.35	.087	8	8	.21	54	.01	2	1.42	.01	.07	1	13
SOIL 8	2	36	16	132	.1	12	11	757	4.37	47	5	ND	1	27	1	5	2	40	.21	.106	8	13	.51	116	.01	2	2.74	.01	.04	1	2
SOIL 9	2	26	20	126	.1	11	8	913	3.38	28	5	ND	1	13	1	2	2	38	.07	.125	5	13	.40	98	.01	2	2.64	.02	.06	1	1
SOIL 10	3	27	21	108	.3	12	9	446	4.11	34	5	ND	1	10	1	2	2	43	.05	.104	7	12	.50	68	.01	6	2.85	.01	.04	1	1
SOIL 11	2	33	4	97	1.0	10	9	463	5.19	48	5	ND	1	19	1	3	2	36	.15	.109	11	14	.38	55	.01	5	4.07	.01	.04	1	1
SOIL 12	3	41	21	111	.6	11	10	824	5.99	65	5	ND	1	31	1	4	2	41	.34	.141	7	14	.39	67	.01	2	3.15	.01	.04	1	1
SOIL 13	4	48	25	179	.3	13	10	641	4.25	184	5	ND	1	23	1	2	2	41	.17	.123	9	12	.46	95	.01	5	2.72	.01	.04	1	1
SOIL 14	6	44	49	173	1.4	181	11	711	5.22	1061	5	ND	1	9	5	6	2	25	.03	.149	7	51	.21	36	.01	2	2.65	.01	.04	1	3
SOIL 15	3	30	15	85	.3	14	8	413	5.80	96	5	ND	1	4	1	2	2	37	.01	.106	5	13	.33	31	.01	2	2.86	.01	.03	1	1
SOIL 16	3	36	28	71	.2	25	7	559	5.67	106	5	ND	1	4	1	5	2	42	.01	.091	6	36	.26	31	.01	2	2.51	.01	.04	1	3
SOIL 17	2	42	20	104	.1	14	14	931	5.61	121	5	ND	2	6	1	2	2	36	.03	.079	8	17	.49	45	.01	2	3.66	.01	.04	1	2
SOIL 18	21	60	33	119	.1	504	18	756	6.24	98	5	ND	1	6	9	6	5	39	.03	.084	6	833	.44	51	.01	6	3.61	.01	.04	6	2
SOIL 19	4	44	31	99	.3	37	11	564	7.27	156	5	ND	2	5	1	2	2	43	.02	.100	7	72	.39	45	.01	6	3.34	.01	.04	1	2
SOIL 20	4	25	20	99	.3	12	7	321	4.25	103	5	ND	1	8	1	4	2	38	.01	.092	6	22	.37	56	.01	6	2.86	.01	.04	1	1
SOIL 21	2	26	67	142	.6	9	8	651	4.68	258	5	ND	1	8	1	2	2	50	.01	.126	6	15	.34	52	.01	2	2.42	.01	.04	1	1
SOIL 22	3	46	19	72	.1	24	7	419	3.97	95	5	ND	1	44	1	2	2	53	.07	.115	5	55	.42	45	.01	6	2.56	.01	.04	1	4
SOIL 23	2	121	24	311	.7	23	14	942	4.36	618	5	ND	2	72	2	2	2	35	.91	.087	13	28	.53	103	.01	3	2.40	.02	.06	1	3
SOIL 24	3	38	29	103	.2	12	10	484	5.13	58	5	ND	2	23	1	4	2	42	.24	.069	6	14	.44	70	.01	2	2.91	.01	.05	1	1
SOIL 25	82	89	22	307	.7	199	12	1200	3.86	352	5	ND	2	78	5	2	2	29	1.13	.194	13	421	.40	93	.01	6	2.27	.01	.06	1	2
SOIL 26	5	36	23	134	.2	40	8	468	4.44	81	5	ND	1	9	1	5	2	36	.04	.120	7	100	.30	64	.01	2	2.20	.01	.05	1	1
SOIL 27	4	33	22	112	.5	13	9	517	4.43	192	5	ND	1	7	1	2	2	37	.01	.094	8	16	.42	53	.01	6	2.65	.01	.04	1	1
SOIL 28	2	26	17	69	.2	9	7	569	4.17	59	5	ND	1	7	1	2	2	47	.07	.142	7	12	.30	51	.01	2	2.17	.01	.04	1	1
SOIL 29	2	47	30	109	.4	12	10	591	5.98	99	5	ND	2	23	1	2	2	46	.16	.085	8	16	.56	51	.01	2	2.84	.01	.05	1	11
SOIL 30	2	32	19	100	.4	7	8	487	6.18	78	5	ND	1	6	1	4	2	55	.01	.150	6	13	.31	46	.01	3	2.30	.01	.04	1	1
SOIL 31	7	37	22	99	.9	8	10	988	5.41	1[illegible]	5	ND	1	7	1	3	2	47	.01	.145	7	15	.35	66	.01	5	2.34	.01	.06	1	1
SOIL 32	3	49	24	135	.1	13	11	786	4.54	77	5	ND	1	48	1	2	2	48	.43	.046	8	12	.54	112	.01	2	2.62	.02	.04	1	2
SOIL 33	2	26	19	66	.4	4	6	526	3.24	31	5	ND	1	11	1	2	2	40	.05	.100	7	8	.20	57	.01	2	1.92	.01	.04	1	1
SOIL 34	4	45	26	146	.3	22	26	3687	8.23	66	5	ND	2	9	1	2	2	116	.12	.219	11	36	.55	50	.01	6	3.03	.01	.04	1	1
SOIL 35	3	29	24	117	.8	10	8	926	4.00	66	5	ND	2	9	1	7	2	36	.02	.177	8	15	.32	49	.01	2	2.95	.01	.05	1	1
SOIL 36	69	38	38	480	.5	8	11	1565	3.97	[illegible]	5	ND	2	53	6	9	2	33	.59	.265	14	10	.33	72	.01	3	2.46	.01	.06	5	3
STD C/AU-S	19	57	41	127	7.3	64	26	1065	3.93	42	19	8	38	50	18	17	22	57	.47	.088	38	61	.85	169	.08	34	1.93	.06	.13	11	48

cc Del.

cc: Rob Dang Sept 21

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
SOIL 37	25	52	16	326	.1	11	12	1489	5.19	193	5	ND	2	60	4	8	2	52	.52	.240	8	15	.46	141	.01	2	2.65	.02	.10	1	1
SOIL 38	24	35	17	302	.1	11	10	646	4.58	193	5	ND	1	42	1	6	2	47	.40	.050	10	13	.64	90	.01	2	2.34	.01	.07	1	1
SOIL 39	24	40	21	235	.2	11	12	651	4.37	122	5	ND	1	10	1	6	2	41	.04	.075	8	12	.49	90	.01	2	2.75	.02	.07	1	1
SOIL 40	30	50	29	512	.5	12	12	1286	4.72	981	5	ND	1	59	2	8	2	40	.54	.182	12	14	.52	89	.01	3	2.25	.02	.12	1	1
SOIL 41	10	63	22	422	.2	13	11	733	4.46	387	5	ND	2	56	1	8	4	42	.48	.082	11	11	.53	97	.01	2	2.13	.02	.07	1	1
SOIL 42	5	25	12	93	.4	4	4	422	3.07	61	5	ND	1	9	1	5	2	42	.03	.107	7	9	.22	50	.01	2	1.56	.01	.05	1	1
SOIL 43	18	59	41	461	1.0	8	9	1467	3.82	370	5	ND	1	79	3	7	5	40	.70	.199	20	10	.46	133	.01	2	2.65	.02	.10	1	1
SOIL 44	15	42	25	397	.3	7	8	465	4.22	648	5	ND	2	63	2	5	2	38	.60	.183	13	10	.47	132	.01	2	2.24	.02	.08	2	1
SOIL 45	17	25	20	147	.7	7	5	303	3.08	236	5	ND	1	12	1	4	2	35	.07	.140	8	10	.31	67	.01	4	2.06	.02	.08	2	1
SOIL 46	33	47	11	853	.2	13	10	686	4.57	666	5	ND	1	33	2	7	2	42	.26	.043	10	15	.64	76	.01	2	2.32	.01	.07	1	1
SOIL 47	23	61	27	664	.8	14	9	873	4.72	761	10	ND	2	77	2	4	2	37	.73	.227	20	15	.52	93	.01	5	2.73	.02	.07	1	4
SOIL 48	13	48	17	136	.1	11	11	525	4.99	48	5	ND	1	7	1	4	2	39	.02	.044	8	10	.49	68	.01	5	2.32	.01	.05	1	1
SOIL 49	11	44	26	999	.3	13	12	931	5.09	117	5	ND	1	58	4	4	2	43	.37	.086	10	12	.48	104	.01	2	2.29	.02	.07	2	1
SOIL 50	13	38	22	135	.2	9	10	562	5.12	75	5	ND	1	22	1	4	2	47	.12	.062	8	13	.50	100	.01	2	2.45	.01	.07	1	1
SOIL 51	27	26	19	145	.1	13	11	1065	4.40	91	5	ND	1	64	1	4	2	52	.48	.191	6	15	.48	138	.01	2	2.31	.01	.07	1	1
SOIL 52	15	41	27	187	.4	11	9	685	4.96	461	5	ND	1	12	1	7	3	64	.04	.120	8	17	.39	77	.02	2	2.64	.01	.09	1	2
SOIL 53	5	32	17	995	.7	14	7	333	4.42	798	5	ND	1	30	1	2	2	38	.37	.096	10	13	.55	66	.01	2	2.48	.01	.05	5	1
SOIL 54	9	73	28	1099	.1	14	12	839	5.06	797	5	ND	2	44	3	6	2	43	.39	.104	11	14	.57	99	.01	2	2.44	.02	.07	2	2
STD C/AU-S	21	61	42	127	7.1	71	29	1123	4.11	38	18	8	41	53	20	18	21	61	.51	.092	41	58	.90	171	.08	39	1.82	.07	.14	13	53
SOIL 55	4	51	29	482	.2	14	12	622	5.58	608	5	ND	1	13	1	10	2	42	.12	.051	7	13	.57	56	.01	2	2.64	.01	.05	1	16
SOIL 56	3	42	32	369	.6	10	10	661	5.62	891	5	ND	1	9	1	6	2	43	.04	.101	7	12	.44	62	.01	2	2.43	.01	.05	1	1
SOIL 57	3	63	21	210	.2	14	12	767	5.32	703	5	ND	2	13	1	7	2	48	.04	.126	9	14	.50	107	.01	2	3.09	.02	.07	1	1
SOIL 58	2	95	39	403	.3	18	16	1183	4.96	596	5	ND	2	46	1	6	3	39	.61	.146	11	13	.56	107	.01	2	2.45	.02	.06	1	1
SOIL 59	3	70	161	563	.6	14	21	2147	6.04	837	5	ND	2	81	2	3	2	30	1.18	.272	7	12	.42	93	.01	2	2.04	.01	.06	6	1
SOIL 60	1	45	18	111	.1	16	14	815	5.16	46	5	ND	1	34	1	3	2	49	.31	.070	9	13	.59	147	.01	2	2.77	.02	.06	1	1
SOIL 61	2	34	11	91	.3	6	6	360	3.71	52	5	ND	1	9	1	2	2	49	.02	.127	7	10	.28	76	.01	2	2.37	.01	.06	1	1
SOIL 62	1	51	30	133	.1	13	14	899	4.55	45	5	ND	1	6	1	2	2	41	.01	.062	8	11	.52	89	.01	2	2.80	.01	.04	1	1
SOIL 63	1	39	24	115	.1	9	9	584	5.03	31	5	ND	1	5	1	2	2	41	.01	.063	7	9	.48	47	.01	2	2.19	.01	.03	1	1
SOIL 64	1	25	17	79	.6	7	6	352	3.15	58	5	ND	1	9	1	4	2	41	.02	.101	8	9	.31	59	.01	2	2.39	.01	.03	1	1
SOIL 65	2	30	37	172	.1	11	16	2372	5.89	62	5	ND	1	9	1	2	2	40	.02	.207	8	14	.38	69	.01	2	2.58	.01	.05	1	2
SOIL 66	1	24	13	81	.3	6	5	518	2.60	19	5	ND	1	12	1	2	2	41	.05	.100	7	8	.24	81	.01	2	1.71	.01	.04	1	1
SOIL 67	1	36	18	102	.1	10	8	404	4.98	30	5	ND	1	5	1	3	2	41	.01	.086	9	13	.47	51	.01	2	2.99	.01	.03	1	1
SOIL 68	1	40	25	128	.2	12	12	1286	4.98	56	5	ND	2	6	1	4	3	49	.01	.092	8	12	.47	72	.01	2	2.74	.01	.06	1	1
SOIL 69	1	30	16	119	.1	9	10	737	4.52	50	5	ND	1	6	1	4	2	45	.01	.132	9	12	.37	55	.01	2	2.40	.01	.05	1	1

n=33

NORANDA EXPLORATION (VAN) PROJECT-8708-112 240 FILE # 87-3555

	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
Silts	19666	5	82	681	756	.6	15	19	1450	5.71	803	5	ND	2	37	7	2	2	41	.42	.093	10	13	.61	68	.01	2	2.37	.01	.07	681	29
	19670	4	51	35	634	.6	14	14	1216	4.76	421	5	ND	1	48	7	2	2	40	.41	.085	8	12	.45	68	.01	2	2.10	.01	.05	1	16
	99144	2	36	19	100	.1	14	14	861	4.28	112	5	ND	1	33	1	2	2	36	.38	.069	9	10	.57	59	.01	2	1.56	.01	.05	1	2

ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

ASSAY CERTIFICATE

- SAMPLE TYPE: Rock Chips

DATE RECEIVED: AUG 24 1987 DATE REPORT MAILED: Sept 4/87 ASSAYER... D. Toye .DEAN TOYE, CERTIFIED B.C. ASSAYER

NORANDA EXPLORATION (VAN) PROJECT-8708-112 240 File # 87-3555A Page 1

	SAMPLE#	≥0.1 MO %	≥0.2 CU %	≥1.0 PB %	≥1.0 ZN %	≥2.0 AG OZ/T	NI %	CO %	MN %	FE %	≥100 AS %	U %	TH %	CD %	SB %	BI %	AU OZ/T
Rocks	19612	.001	.01	.01	.40	.06	.01	.01	.10	2.90	.41	.002	.01	.01	.01	.01	.003
	19613	.001	.01	.01	.03	.02	.01	.01	.04	.98	.04	.002	.01	.01	.01	.01	.001
	19614	.003	.20	.08	8.36	.81	.01	.01	.01	29.20	14.27	.002	.01	.11	.01	.01	.167
	19615	.001	.01	.01	.06	.03	.01	.01	.04	1.19	.08	.002	.01	.01	.01	.01	.001
	19616	.001	.01	.01	.10	.03	.01	.01	.11	3.65	.22	.002	.01	.01	.01	.01	.004
	19617	.001	.01	.01	.04	.01	.01	.01	.06	2.24	.03	.002	.01	.01	.01	.01	.001
	19618	.001	.03	.01	.01	.02	.01	.01	.04	9.12	.01	.002	.01	.01	.01	.01	.002
	19619	.001	.05	.06	.29	.68	.01	.01	.01	25.09	19.29	.002	.01	.01	.02	.02	.112
	19620	.001	.05	.02	.01	.42	.01	.01	.01	25.93	28.90	.002	.01	.01	.03	.02	.264
	19621	.001	.13	.02	.02	1.22	.01	.01	.01	29.00	6.82	.002	.01	.01	.01	.01	.173
	19622	.001	.12	.09	.22	1.25	.01	.01	.15	34.17	9.72	.002	.01	.01	.05	.04	.171
	19623	.001	.01	.01	.26	.05	.01	.01	.17	9.42	.38	.002	.01	.01	.01	.01	.010
	19624	.001	.03	.02	.07	.66	.01	.01	.02	19.15	15.40	.002	.01	.01	.03	.03	.312
	19625	.001	.02	.03	.05	.14	.01	.01	.05	9.40	.25	.002	.01	.01	.02	.01	.004
	19651	.001	.18	1.23	.89	1.01	.01	.01	.01	2.24	1.05	.004	.01	.01	.45	.01	.011
	19652	.002	.04	.01	.01	.04	.01	.01	.18	11.72	.02	.002	.01	.01	.01	.01	.001
	19653	.001	.01	.01	.01	.09	.01	.01	.07	3.47	.29	.002	.01	.01	.01	.01	.001
	19654	.001	.01	.02	.98	.04	.01	.01	.32	4.14	.89	.002	.01	.01	.01	.01	.006
	19655	.002	.07	.01	.01	.02	.01	.01	.15	11.99	.01	.002	.01	.01	.01	.01	.001
	19656	.001	.01	.01	.09	.08	.01	.01	.04	3.08	1.93	.002	.01	.01	.01	.01	.010
	19657	.002	.05	.14	1.04	.88	.01	.01	.03	23.29	16.65	.002	.01	.01	.07	.01	.364
	19658	.001	.02	.05	2.39	.18	.01	.01	.17	18.43	16.92	.002	.01	.03	.05	.01	.242
	19659	.001	.01	.05	.05	.49	.01	.01	.01	22.36	21.21	.002	.01	.01	.07	.01	.533
	19660	.004	.01	.06	.22	.10	.01	.01	.13	5.18	2.78	.002	.01	.01	.01	.01	.017
	19661	.001	.03	.01	.01	.04	.01	.01	.02	11.74	.17	.002	.01	.01	.01	.01	.004
	19662	.001	.04	.01	.01	.02	.01	.01	.03	11.89	.03	.003	.01	.01	.01	.01	.003
	19663	.002	.01	.01	.01	.03	.01	.01	.01	2.92	.02	.002	.01	.01	.01	.01	.001
	19664	.001	.09	.51	.65	1.94	.01	.01	.06	9.95	2.36	.002	.01	.01	.23	.01	.023
	19665	.001	.02	.21	.06	1.69	.01	.01	.01	6.89	1.72	.002	.01	.01	.11	.01	.025
	19667	.001	.03	.01	.01	.11	.01	.01	.02	19.80	.06	.002	.01	.01	.01	.01	.012
	19668	.001	.03	.10	.91	2.70	.01	.01	.07	4.84	2.02	.003	.01	.02	.01	.01	.018
	19669	.001	.06	.01	.01	.05	.01	.01	.03	11.23	.19	.002	.01	.01	.01	.01	.001
	19671	.001	.05	.01	.02	.03	.01	.01	.03	11.92	.27	.002	.01	.01	.01	.01	.001
	19672	.001	.01	.04	.05	.29	.01	.01	.02	3.56	1.11	.002	.01	.01	.01	.01	.195
	19673	.001	.12	.02	.05	.51	.01	.01	.10	25.24	6.63	.002	.01	.01	.01	.01	.131
	19674	.001	.14	.03	.01	.46	.01	.01	.04	31.33	12.22	.002	.01	.01	.02	.01	.179
	STD R-1/OZ	.093	.89	1.37	2.39	2.96	.03	.03	.09	6.91	.94	.007	.01	.04	.15	.03	-

NORANDA EXPLORATION (VAN) PROJECT-8708-112 240 FILE # 87-3555A

SAMPLE#	MO %	CU %	PB %	ZN %	AG OZ/T	NI %	CO %	MN %	FE %	AS %	U %	TH %	CD %	SB %	BI %	AU OZ/T
19675	.001	.03	.01	.01	.44	.01	.01	.54	23.95	6.08	.002	.01	.01	.01	.01	.050
19676	.001	.01	.06	.04	.04	.01	.01	.03	9.17	7.18	.002	.01	.01	.04	.01	.019
19677	.002	.05	.01	.01	.06	.01	.01	.03	15.03	.09	.002	.01	.01	.01	.01	.001
19678	.001	.01	.01	.03	.03	.01	.01	.03	3.45	2.68	.003	.01	.01	.01	.01	.007
19679	.001	.01	.01	.01	.01	.01	.01	.02	1.17	.02	.002	.01	.01	.01	.01	.001
19680	.001	.01	.06	.38	.18	.01	.01	.33	5.11	1.46	.002	.01	.01	.03	.01	.031
19681	.001	.08	.01	.01	.02	.01	.01	.02	12.47	.03	.002	.01	.01	.01	.01	.001
19682	.001	.09	.01	.01	.03	.01	.01	.03	16.50	.02	.002	.01	.01	.01	.01	.001
19683	.001	.04	.01	.21	.32	.01	.01	.12	11.42	3.33	.002	.01	.01	.01	.01	.077
19684	.001	.08	.01	.01	.01	.01	.01	.02	11.46	.01	.002	.01	.01	.01	.01	.001
19685	.001	.06	.01	.01	.01	.01	.01	.03	15.60	.03	.002	.01	.01	.01	.01	.001
19686	.001	.02	.01	.01	.01	.01	.01	.02	7.78	.01	.002	.01	.01	.01	.01	.001
19687	.001	.02	.04	.08	.85	.01	.01	.03	10.10	2.81	.002	.01	.01	.01	.02	.034
19688	.001	.02	.01	.01	.03	.01	.01	.01	10.96	.01	.002	.01	.01	.01	.01	.001
19689	.001	.03	.01	.01	.25	.01	.01	.01	15.32	8.75	.002	.01	.01	.02	.01	.258
19690	.001	.09	.03	.12	.39	.01	.01	.09	25.61	4.43	.002	.01	.01	.01	.01	.084
26751	.001	.02	.01	.32	.24	.01	.01	.01	6.60	4.48	.002	.01	.01	.01	.01	.085
26752	.003	.01	.01	.06	.05	.01	.01	.07	3.72	.44	.002	.01	.01	.01	.01	.005
26753	.001	.05	.05	1.03	.45	.01	.01	.06	14.20	7.69	.002	.01	.01	.02	.01	.248
26754	.001	.01	.01	.08	.07	.01	.01	.07	2.28	.34	.002	.01	.01	.01	.01	.007
26755	.001	.08	.30	.58	3.09	.01	.01	.17	19.95	2.63	.002	.01	.01	.13	.03	.820
26756	.001	.01	.04	.04	.31	.01	.01	.34	12.85	9.04	.002	.01	.01	.03	.01	.330
26757	.001	.01	.05	.03	.26	.01	.01	.01	17.06	17.12	.002	.01	.01	.03	.01	.135
26758	.001	.02	.25	.13	1.30	.01	.01	.02	9.01	3.54	.002	.01	.01	.10	.03	.359
26759	.003	.03	.08	.17	1.30	.01	.01	.02	16.55	3.40	.002	.01	.01	.04	.01	.146
26760	.003	.01	.04	.03	.24	.01	.01	.04	15.28	14.24	.002	.01	.01	.02	.01	.081
26761	.001	.02	.39	.37	.23	.01	.01	.19	2.03	.08	.002	.01	.01	.04	.01	.002
26762	.001	.05	.04	.15	.89	.01	.01	.03	14.96	6.77	.002	.01	.01	.02	.01	.153
26763	.001	.04	.04	1.44	.45	.01	.01	.01	11.82	5.71	.002	.01	.02	.02	.01	.308
26764	.001	.03	.07	2.53	.35	.01	.01	.02	14.00	12.85	.002	.01	.04	.04	.01	.337
26765	.001	.01	.02	.39	.18	.01	.01	.04	5.69	4.79	.002	.01	.01	.01	.01	.147
26766	.001	.08	.07	1.09	1.38	.01	.01	.03	24.78	5.06	.002	.01	.02	.01	.03	.550
26767	.001	.02	.01	3.04	.16	.02	.01	.15	7.01	1.32	.002	.01	.03	.01	.01	.033
26768	.002	.03	.04	.04	1.81	.01	.01	.08	13.49	2.96	.002	.01	.01	.03	.01	.042
26769	.004	.04	.04	.03	2.22	.01	.01	.03	5.17	2.84	.002	.01	.01	.03	.01	.055
26770	.003	.01	.01	.05	.11	.01	.01	.13	1.89	.08	.003	.01	.01	.01	.01	.003
STD R-1/OZ	.093	.89	1.37	2.40	2.96	.03	.03	.08	7.01	.95	.010	.01	.04	.14	.03	-

NORANDA EXPLORATION (VAN) PROJECT-8708-112 240 FILE # 87-3555A

SAMPLE#	MO %	CU %	PB %	ZN %	AG OZ/T	NI %	CO %	MN %	FE %	AS %	U %	TH %	CD %	SB %	BI %	AU OZ/T
26771	.012	.01	.01	.06	.05	.01	.01	.12	2.12	.05	.002	.01	.01	.01	.01	.002
26772	.001	.01	.02	.07	.18	.01	.01	.10	3.59	1.43	.002	.01	.01	.01	.01	.068
26773	.001	.03	.07	.02	1.05	.01	.01	.04	8.27	2.23	.002	.01	.01	.01	.01	.073
26801	.001	.12	.03	.01	2.28	.01	.02	.01	28.13	21.15	.002	.01	.01	.03	.02	.882

Pinemut (DM)

8708-077

ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

.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 CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SILT AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: AUG 13 1987 DATE REPORT MAILED: Aug 23/87 ASSAYER. D. Toye ...DEAN TOYE, CERTIFIED B.C. ASSAYER

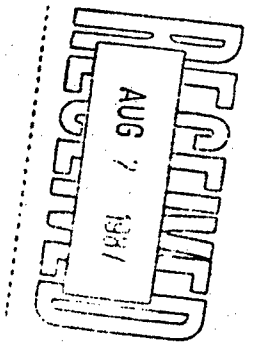
NORANDA EXPLORATION (VANCOUVER) PROJECT-8708-077 240 File # 87-3271

SAMPLE#	MO PPM ≥10	CU PPM ≥100	PB PPM ≥50	ZN PPM ≥300	AG PPM ≥2	NI PPM	CO PPM	MN PPM	FE %	AS PPM ≥100	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM ≥10	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM ≥10	AU* PPB ≥20
Silts																															
76162	17	48	48	235	.9	11	10	916	3.43	567	5	ND	5	25	2	11	3	23	.24	.053	15	13	.43	62	.01	2	1.12	.03	.14	4	18
76165	31	92	122	460	1.7	15	16	1544	5.22	1477	5	ND	6	39	5	23	6	25	.30	.063	14	11	.43	76	.01	7	1.28	.02	.09	5	101
099135	1	27	18	121	.1	13	13	1429	5.18	22	5	ND	1	41	1	2	2	39	.33	.077	8	10	.62	121	.01	2	1.98	.02	.05	1	2
099136	1	34	17	127	.1	14	13	1112	5.09	16	5	ND	2	49	1	2	2	38	.44	.068	8	10	.67	122	.01	2	2.02	.03	.05	1	2
099137	1	37	18	115	.2	14	12	936	4.62	9	5	ND	2	69	1	2	2	42	.52	.073	8	12	.65	124	.01	2	1.74	.03	.05	1	1
099138	1	35	14	117	.1	14	12	945	4.91	14	5	ND	1	48	1	2	2	36	.43	.069	8	10	.67	108	.01	2	1.90	.02	.04	1	1
099139	1	25	15	121	.1	13	12	1405	4.58	19	5	ND	1	32	1	2	2	37	.35	.067	8	10	.55	126	.01	2	1.97	.02	.03	1	1
099140	2	25	19	123	.2	13	13	2270	4.77	17	5	ND	2	34	1	2	2	38	.36	.071	8	10	.52	130	.01	2	1.98	.02	.05	1	1
099141	1	34	19	114	.1	15	13	1153	4.66	21	5	ND	2	27	1	2	2	37	.32	.061	9	12	.61	89	.01	3	1.85	.03	.05	1	2
099142	2	28	18	120	.1	13	15	1286	5.15	50	5	ND	2	41	1	2	2	39	.41	.064	9	11	.57	101	.01	2	1.77	.02	.05	1	1
099143	1	41	19	117	.1	16	15	1118	4.48	38	5	ND	2	34	1	2	2	38	.43	.072	10	12	.63	88	.01	3	1.74	.03	.04	1	1
099203	4	60	80	628	.3	12	17	2113	5.13	770	5	ND	4	27	7	24	2	38	.33	.087	10	16	.58	76	.01	2	1.69	.04	.11	21	1

file

Rob Dag Sept 21

cc: Rob file: 2876



ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

ASSAY CERTIFICATE

- SAMPLE TYPE: ROCK

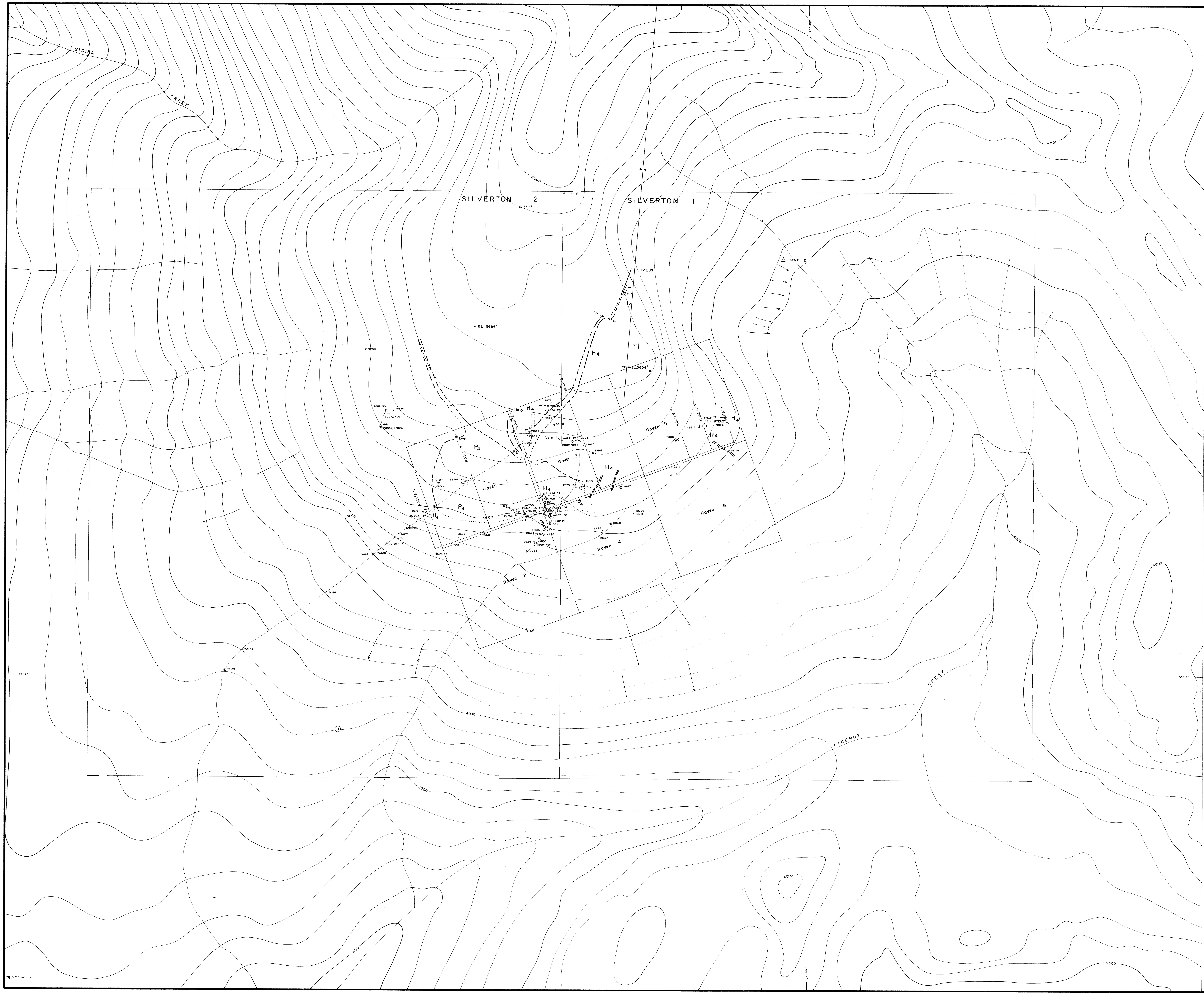
DATE RECEIVED: AUG 13 1987 DATE REPORT MAILED: Aug 23/87 ASSAYER. D. Toye ..DEAN TOYE, CERTIFIED B.C. ASSAYER

NORANDA EXPLORATION (VANCOUVER) PROJECT-8708-077 240 File # 87-3271A

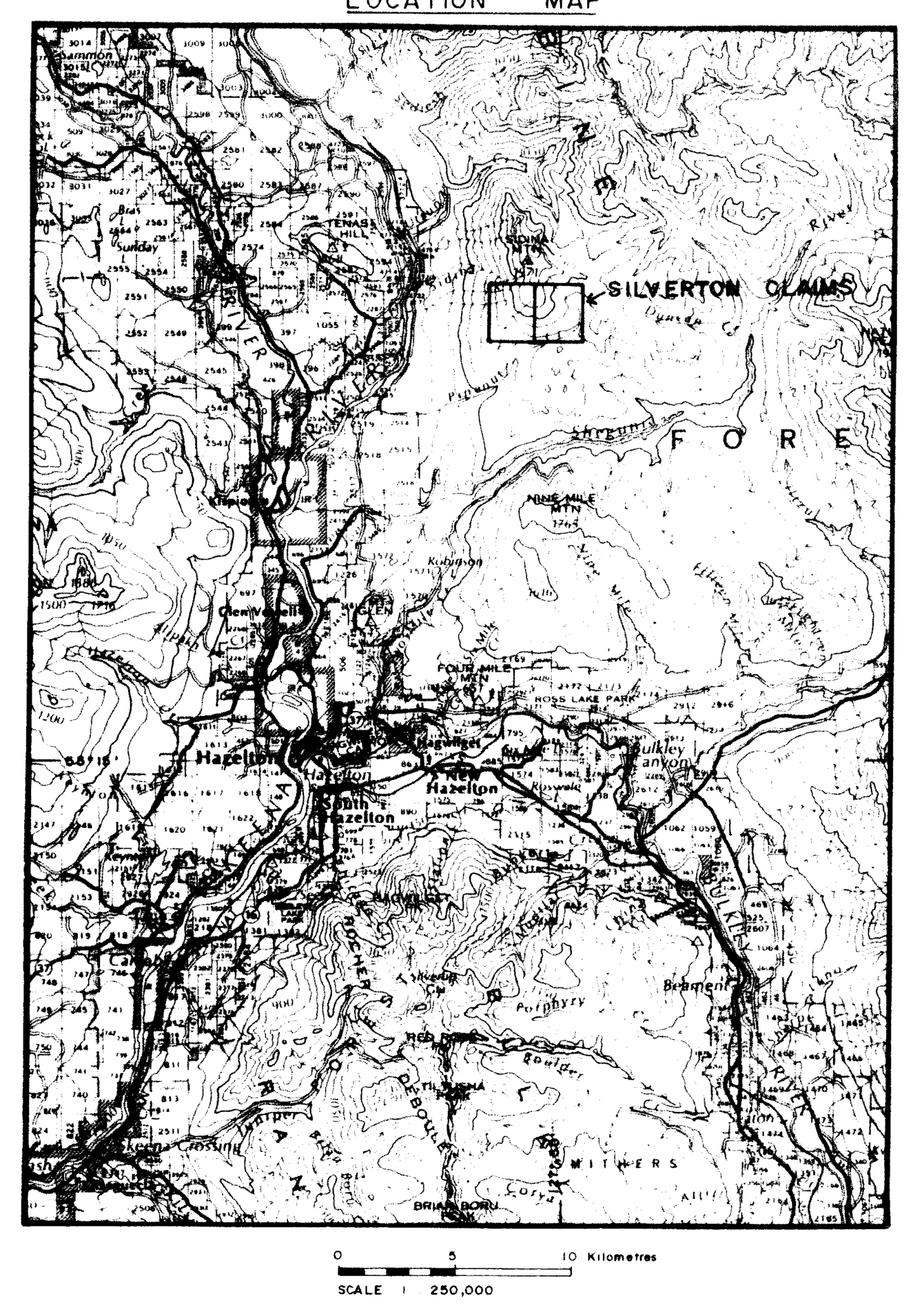
	SAMPLE#	≥0.1 MO %	≥0.2 CU %	≥1.0 PB %	≥1.0 ZN %	≥2.0 AG OZ/T	NI %	CO %	MN %	FE %	≥1.0 AS %	U %	TH %	CD %	SB %	BI %	≥0.1 AU OZ/T
Pinenut																	
Rocks	76163	.001	.01	.28	1.53	.13	.01	.01	.13	1.05	.13	.002	.01	.02	.01	.01	.003
	76164	.001	.01	.01	.01	.01	.01	.01	.08	1.32	.01	.002	.01	.01	.01	.01	.001
	76166	.001	.01	.01	.05	.04	.01	.01	.05	3.85	.05	.002	.01	.01	.01	.01	.001
	76167	.001	.03	.01	.01	.01	.01	.01	.02	24.31	.02	.002	.01	.01	.01	.01	.001
	76168	.001	.09	.04	.01	.93	.01	.01	.05	40.48	4.67	.002	.01	.01	.02	.03	.073
	76169	.001	.01	.07	.01	.47	.01	.01	.12	12.32	11.02	.002	.01	.01	.01	.01	.110
	76170	.001	.01	.01	.01	.01	.01	.01	.06	1.36	.01	.002	.01	.01	.01	.01	.001
	76171	.001	.14	.45	.59	1.12	.01	.01	.61	33.88	2.24	.002	.01	.01	.01	.01	.050
	76172	.001	.02	.02	.24	.35	.01	.01	.01	29.78	27.65	.002	.01	.01	.03	.01	.479
	76173	.001	.01	.19	.15	1.41	.01	.01	.24	7.57	2.24	.002	.01	.01	.01	.01	.040
	76174	.001	.01	.02	.01	.09	.01	.01	.27	2.13	.94	.004	.01	.01	.01	.01	.009
	76175	.004	.03	.12	.10	.32	.01	.01	.06	9.58	1.66	.002	.01	.01	.01	.01	.014
Blunt	86629	.004	.01	.02	.01	.01	.01	.01	.01	38.14	.12	.002	.01	.01	.01	.01	.001
	099145	.001	.01	.01	.01	.01	.01	.01	.02	.72	.02	.003	.01	.01	.01	.01	.001
	099146	.001	.01	.01	.01	.01	.01	.01	.01	2.21	.06	.002	.01	.01	.01	.01	.002
	099147	.001	.01	.01	.94	.12	.01	.01	.07	8.06	6.08	.003	.01	.01	.01	.01	.042
	099148	.001	.08	.01	.53	.38	.01	.01	.02	32.07	22.80	.003	.01	.01	.03	.01	.315
	099149	.001	.62	2.16	.12	1.07	.01	.01	.10	3.05	.10	.002	.01	.01	.84	.01	.001
	099150	.001	.04	.13	.01	.35	.01	.01	.06	17.28	13.71	.002	.01	.01	.10	.01	.249
	099201	.001	.07	.13	.03	1.23	.01	.01	.18	19.29	3.51	.002	.01	.01	.07	.01	.036
	099202	.002	.13	.02	.01	.11	.01	.01	.04	30.80	10.62	.002	.01	.01	.01	.01	.112
	STD R-1/OZ	.093	.89	1.37	2.41	2.97	.03	.02	.08	7.00	.94	.013	.01	.04	.14	.03	-

APPENDIX 4. LIST OF PERSONNEL

Name, Address	Position	Dates worked on claims
Rob Day 15630-118th Ave. Edmonton, Alberta	Geologist	6 Ø, 14-17 Aug.87
Paul Huel RR 1 Hazelton, B.C.	Prospector	6 Ø, 14-17 Aug.87
Tom Bell RR 1 Hazelton, B.C.	Prospector	6 Ø, 14-17 Aug.87
Peter Gosau 3A-1750 Quinn St. Prince George, B.C.	Assistant	14-17 Aug.87
Del Myers 3A-1750 Quinn St. Prince George, B.C.	Geologist	6 Ø Aug. 87



LOCATION MAP



0 5 10 Kilometres
SCALE 1 : 250,000

LEGEND

ROCK TYPES

Symbol	Description
P_4	GRANITE
H_4	Rhyolitic Hypabyssal Intrusive
S_2	SILTSTONE

SYMBOLS

- Flagged grid
- Geological Contact (definite, inferred, assumed)
- Outcrop large, small
- Triangulation point
- Trench
- 99130 x Rock sample location
- 19608 Float sample
- Strike and dip of Veins, Veinlet, joints
- Syncline
- Anticline
- Fault
- (H) Helicopter pad
- Qtz. vein

TABLE OF ASSAYS

SAMPLE NO.	DESCRIPTION	TYPE	WIDTH (m)	Mo %	Cu %	Pb %	Zn %	Ag oz/T	As %	Sb %	Au oz/T
19612		rock		.001	.01	.01	.40	.06	.41	.01	.003
19613		rock		.001	.01	.01	.03	.02	.04	.01	.001
19614		rock		.003	.20	.08	8.36	.81	14.27	.01	.167
19615		rock		.001	.01	.01	.06	.03	.08	.01	.001
19616		rock		.001	.01	.01	.10	.03	.22	.01	.004
19617		rock		.001	.01	.01	.04	.03	.03	.01	.001
19618		rock		.001	.03	.01	.01	.02	.01	.01	.002
19619		rock		.001	.05	.06	.29	.68	19.29	.02	.112
19620		rock		.001	.05	.02	.01	.42	28.90	.03	.264
19621		rock		.001	.13	.02	.02	1.22	6.82	.01	.173
19622		rock		.001	.12	.09	.22	1.25	9.72	.05	.171
19623		rock		.001	.01	.01	.26	.05	.38	.01	.010
19624		rock		.001	.03	.02	.07	.66	15.40	.03	.312
19625		rock		.001	.02	.03	.05	.14	.25	.02	.004
19651		rock		.001	.18	1.23	.89	1.01	1.05	.45	.011
19652		rock		.002	.04	.01	.01	.04	.02	.01	.001
19653		rock		.001	.01	.01	.01	.09	.29	.01	.001
19654		rock		.001	.01	.02	.98	.04	.89	.01	.006
19655		rock		.002	.07	.01	.01	.02	.01	.01	.001
19656		rock		.001	.01	.01	.09	.08	1.93	.01	.010
19657	Py, Qtz, Asp	chip	.20	.002	.05	.14	1.04	.88	16.65	.07	.364
19658	Qtz, Sph, Asp, Py	grab	.20	.001	.02	.05	2.39	.18	16.92	.05	.242
19659	Qtz, Py, Asp	chip	.05	.001	.01	.05	.05	.49	21.21	.07	.533
19660	Qtz, Asp, Sph, Py	chip	.05	.004	.01	.06	.22	.10	2.78	.01	.017
19661	Alt. Rock, Py	grab	–	.001	.03	.01	.01	.94	.17	.01	.004
19662	Alt. Rock, Py, Kaolin Limonite	grab	–	.001	.04	.01	.01	.02	.03	.01	.004
19663	Alt. Rock, Py	grab	–	.002	.01	.01	.01	.03	.02	.01	.001
19664	Qtz, Py, Asp, Tetr, Sph	chip	.10	.001	.09	.51	.65	1.94	2.36	.23	.023
19665	Qtz, Asp, Py, Limonite	chip	.10	.001	.02	.21	.06	1.69	1.72	.11	.025
19667	Alt, Rock, Py	grab	–	.001	.03	.01	.01	.11	.06	.01	.012
19668	Sph, Py, Asp, Qtz	float	–	.001	.03	.10	3.91	2.70	2.02	.01	.018
19669	Alt. Rock, Py	grab	–	.001	.06	.01	.01	.05	.19	.01	.001
19671	Py, Alt. Sed, Asp	grab	–	.001	.05	.01	.02	.03	.27	.01	.001
19672	Qtz, Py, Asp	float	–	.001	.01	.04	.05	.29	1.11	.01	.195
19673	Qtz, Py, Asp	grab	.10	.001	.12	.02	.05	.51	6.63	.01	.131
19674	Qtz, Py, Asp	grab	.10	.001	.14	.03	.01	.46	12.22	.02	.179
19675	Qtz, Asp, Py	chip	.10	.001	.03	.01	.01	.44	6.08	.01	.050
19676	Rock	rock	–	.001	.01	.06	.04	.04	7.18	.04	.019
19677	Rock	rock	–	.002	.05	.01	.01	.06	.09	.01	.001
19678	Rock	rock	–	.001	.01	.01	.03	.03	2.68	.01	.007
19679	Rock	rock	–	.001	.01	.01	.01	.01	.02	.01	.001
19680	Qtz, Cpy, Sph, Py, Asp	chip	.15	.001	.01	.06	.38	.18	1.46	.03	.031
19681	Py, Mn	grab	–	.001	.08	.01	.01	.02	.03	.01	.001
19682	Py, Po, Mn	grab	–	.001	.09	.01	.01	.03	.02	.01	.001
19683	Qtz, Cpy, Py, Asp	grab	–	.001	.04	.01	.21	.32	3.33	.01	.077
19684	Py, Po, Mn	chip	.50	.001	.08	.01	.01	.01	.01	.01	.001
19685	Py, Po	grab	–	.001	.06	.01	.01	.01	.03	.01	.001
19686	Py, Alt	grab	–	.001	.02	.01	.01	.01	.01	.01	.001
19687	Qtz, Py, Asp	talus		.001	.02	.04	.08	.85	2.81	.01	.034
19688	Py, Po, Pod, in alt. Sed	chip	.50	.001	.02	.01	.01	.03	.01	.01	.001
19689	Qtz, Py, Asp, mineralized wall rock	chip	.15	.001	.03	.01	.01	.25	8.75	.02	.258
19690	Qtz, Py, Asp, Cpy	grab	–	.001	.09	.03	.12	.39	4.43	.01	.084
26751	Rock	rock	–	.001	.02	.01	.32	.24	4.48	.01	.085
26752	Rock	rock	–	.003	.01	.01	.06	.05	.44	.01	.005
26753	Rock	rock	–	.001	.05	.05	1.03	.45	7.69	.02	.248
26754	Rock	rock	–	.001	.01	.01	.03	.07	.34	.01	.007
26755	Rock	rock	–	.001	.08	.30	.58	3.09	2.63	.13	.820
26756	Rock	rock	–	.001	.01	.04	.04	.31	9.04	.03	.330
26757	Rock	rock	–	.001	.01	.05	.03	.26	17.12	.03	.135
26758	Rock	rock	–	.001	.02	.25	.13	1.30	3.54	.10	.359
26759	Rock	rock	–	.003	.03	.08	.17	1.30	3.40	.04	.146
26760	Rock	rock	–	.003	.01	.04	.03	.24	14.24	.02	.081
26761	Rock	rock	–	.001	.02	.39	.37	.23	.08	.04	.002
26762	Rock	rock	–	.001	.05	.04	.15	.89	6.77	.02	.153
26763	Rock	rock	–	.001	.04	.04	1.44	.45	5.71	.02	.308
26764	Rock	rock	–	.001	.03	.07	2.53	.35	12.85	.04	.337
26765	Rock	rock	–	.001	.01	.02	.39	.18	4.79	.01	.147
26766	Qtz, Py, Asp	grab	–	.001	.08	.07	1.09	1.38	6.06	.01	.550
26767	Contact Zone	chip	1.45	.001	.02	.01	3.04	.16	1.32	.01	.033
26768	Stockwork	chip	.73	.002	.03	.04	.04	1.81	2.96	.03	.042
26769	Granite with Qtz	chip	1.00	.004	.04	.04	.03	2.22	2.84	.03	.055
26770	Granite with Qtz	chip	1.00	.003	.01	.01	.05	.11	.08	.01	.003
26771	Granite with Qtz	chip	1.00	.012	.01	.01	.06	.05	.05	.01	.002
26772	Granite with Qtz	chip	1.00	.001	.01	.02	.07	.18	1.43	.01	.068
26773	Qtz, veinlet with Asp, Py	chip	.16	.001	.03	.07	.02	1.05	2.23	.01	.073
26801	Qtz, Py, Asp	grab	.10	.001	.12	.03	.01	2.28	21.15	.03	.882
76163	Rock	cobble	–	.001	.01	.28	1.53	.13	.13	.01	.003
76164	Rock	rock	–	.001	.01	.01	.01	.01	.01	.01	.001
76166	Rock	rock	–	.001	.01	.01	.05	.04	.05	.01	.001
76167	talus Fines	rock	–	.001	.03	.01	.01	.01	.02	.01	.001
76168	Rock	rock	–	.001	.09	.04	.01	.93	4.67	.02	.073
76169	Rock	rock	–	.001	.01	.07	.01	.47	11.02	.01	.110
76170	Rock	rock	–	.001	.01	.01	.01	.01	.01	.01	.001
76171	Rock	rock	–	.001	.14	.45	.59	1.12	2.24	.01	.050
76172	Rock	rock	–	.001	.02	.02	.24	.35	27.65	.03	.479
76173	Rock	rock	–	.001	.01	.19	.15	1.41	2.24	.01	.040
76174	Rock	rock	–	.001	.01	.02	.01	.09	.94	.01	.009
76175	Rock	rock	–	.004	.03	.12	.10	.32	1.66	.01	.014
99145	Rock	rock	–	.001	.01	.01	.01	.01	.02	.01	.001
99146	Rock	rock	–	.001	.01	.01	.01	.01	.06	.01	.002
99147	Rock	rock	–	.001	.01	.01	.94	.12	6.08	.01	.042
99148	Rock	rock	–	.001	.08	.01	.53	.38	22.08	.03	.315
99149	Rock	rock	–	.001	.62	2.16	.12	1.07	.10	.84	.001
99150	Rock	rock	–	.001	.04	.13	.01	.35	13.71	.10	.249
99201	Rock	rock	–	.001	.07	.13	.03	1.23	3.51	.07	.036
99202	Rock	rock		.002	.13	.02	.01	.11	10.62	.01	.112

NOTE:
- Qtz Quartz
- Py Pyrite
- Gn Galena
- Asp Arsenopyrite
- Sph Sphalerite
- Mo Molybdenite
- Ser Sericite
- Tetr Tetrahedrite
- Po Pyrrhotite
- Fel Feldspar
- Cpy Chalcopyrite

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,601

NOTE Topography based on photocopy enlargement of N.T.S. 1 : 50,000 scale map 93M/5,6

0 100 200 300 400 500 m
SCALE 1 : 5,000

REVISED
Dec 87 dm

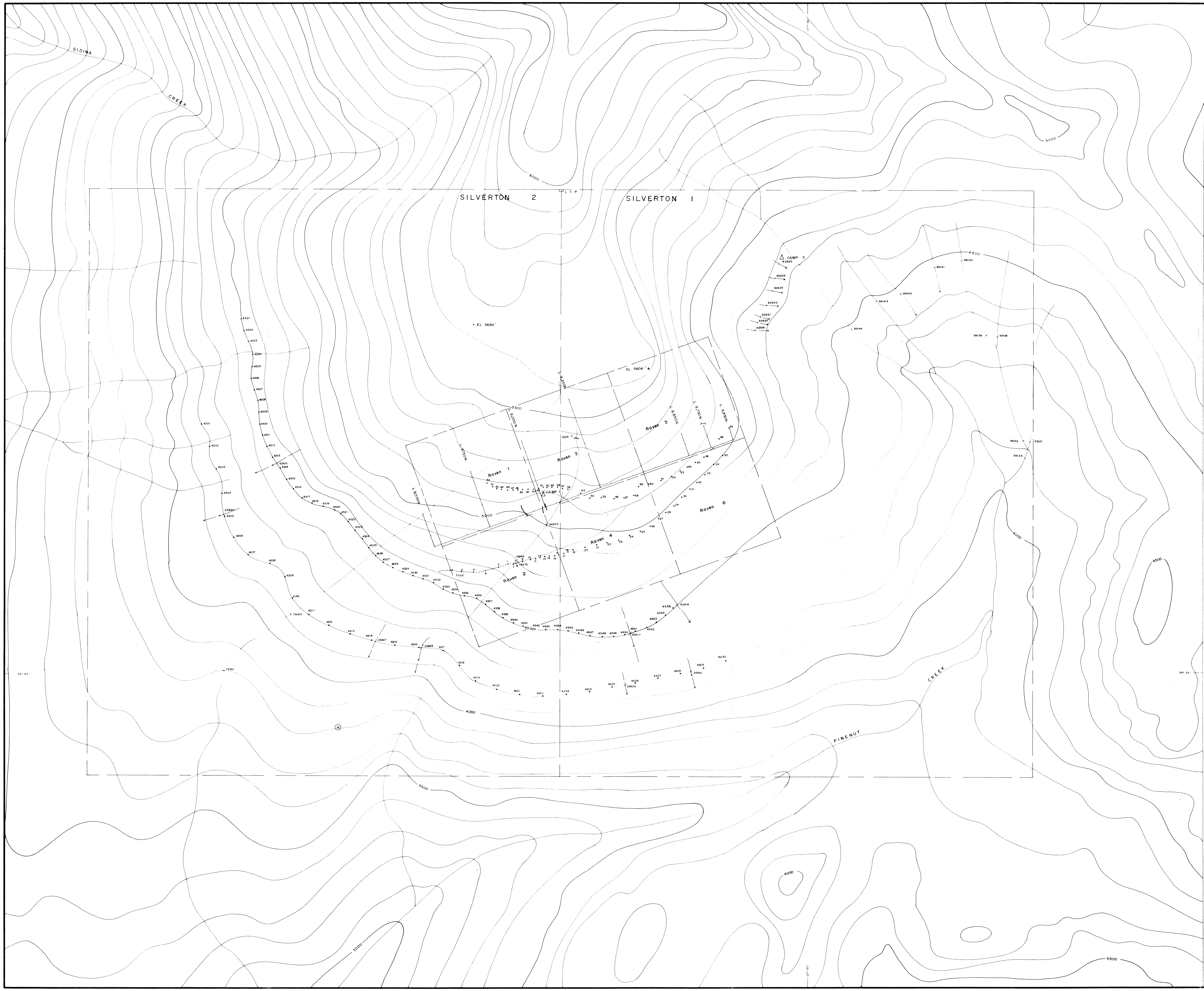
PINENUT CREEK OPTION

GEOLOGY AND ROCK SAMPLE LOCATIONS

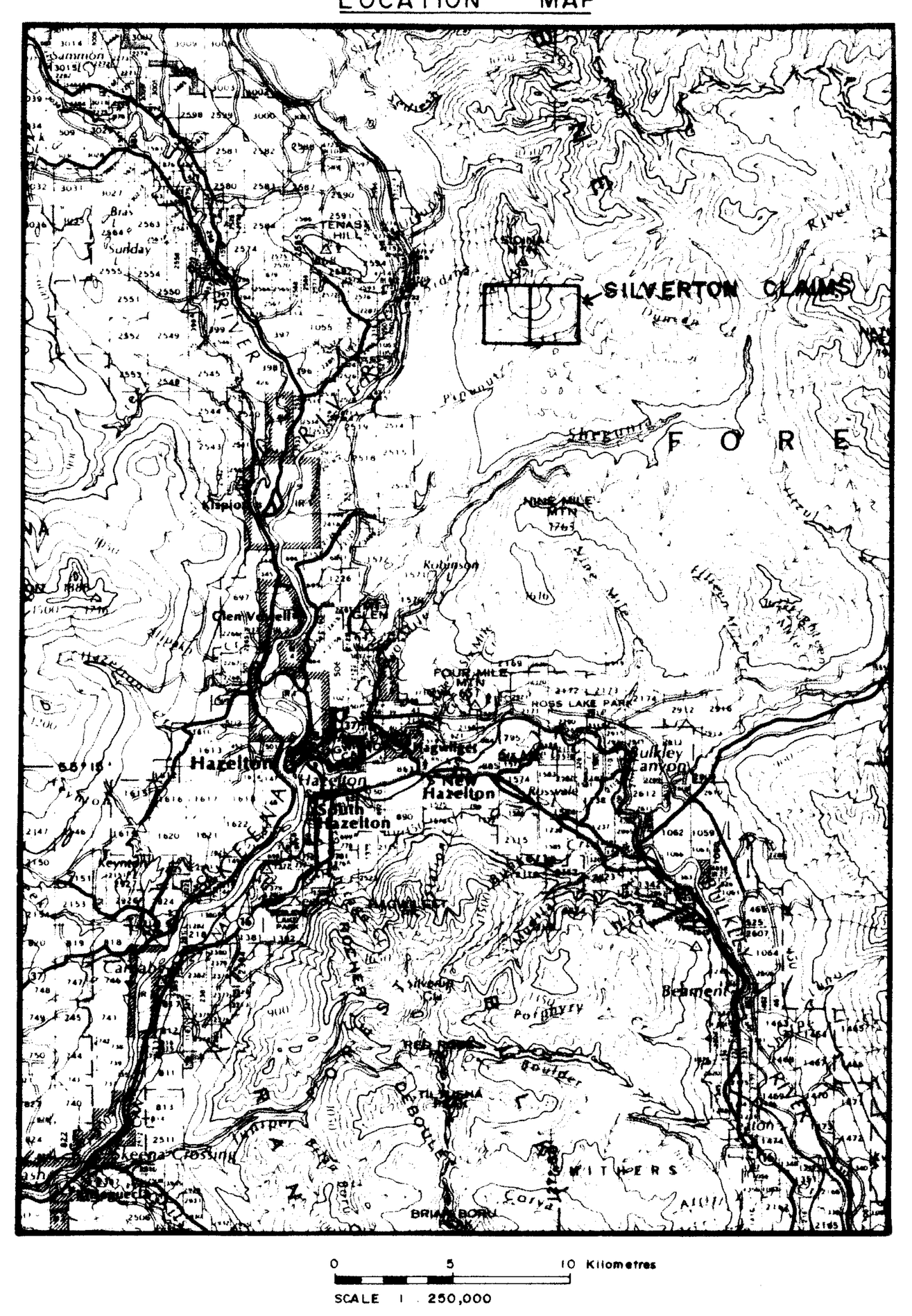
PROJ. No. 287
N.T.S. 93M/5,6
DWG. No. FIG. 3

SURVEY BY: R. DAY, DEMJr. DATE: Aug., 1987
DRAWN BY: SKB SCALE: 1 : 5,000

NORANDA EXPLORATION
OFFICE: PRINCE GEORGE, B.C.



LOCATION MAP



LEGEND

- Soil sample location
- Silt sample location
- Triangulation point
- Flagged grid
- Helicopter pad
- Quartz Vein
- Trench

TABLE OF SOIL ANALYSES

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	AS PPM	SB PPM	AU# PPB
SOIL 1	7	73	76	332	.3	805	9	30
SOIL 2	7	47	35	587	.8	212	2	4
SOIL 3	5	18	20	87	.5	149	4	1
SOIL 4	24	116	42	927	1.1	882	10	1
SOIL 5	7	62	32	439	.5	579	7	9
SOIL 6	5	158	25	416	.6	445	6	4
SOIL 7	5	29	32	183	.4	241	5	13
SOIL 8	2	36	16	132	.1	47	5	2
SOIL 9	2	26	20	126	.1	28	2	1
SOIL 10	3	27	21	108	.3	34	2	1
SOIL 11	2	33	4	97	1.0	48	3	1
SOIL 12	3	41	21	111	.6	65	4	1
SOIL 13	4	48	25	179	.3	184	2	1
SOIL 14	6	44	49	173	1.4	1061	6	3
SOIL 15	3	30	15	85	.3	96	2	1
SOIL 16	3	36	28	71	.2	106	5	3
SOIL 17	2	42	20	104	.1	121	2	2
SOIL 18	21	60	33	119	.1	98	6	2
SOIL 19	4	44	31	99	.3	156	2	2
SOIL 20	4	25	20	99	.3	103	4	1
SOIL 21	2	26	67	142	.6	258	2	1
SOIL 22	3	46	19	72	.1	95	2	4
SOIL 23	2	121	24	311	.7	618	2	3
SOIL 24	3	38	29	103	.2	58	4	1
SOIL 25	12	89	22	307	.7	552	2	2
SOIL 26	5	36	23	134	.2	81	5	1
SOIL 27	4	33	22	112	.5	107	2	1
SOIL 28	2	26	17	69	.2	59	2	1
SOIL 29	2	47	30	109	.4	99	2	11
SOIL 30	2	32	19	100	.4	78	4	1
SOIL 31	7	37	22	99	.9	117	3	1
SOIL 32	3	49	24	135	.1	77	2	2
SOIL 33	2	26	19	66	.4	31	2	1
SOIL 34	4	45	26	146	.3	66	2	1
SOIL 35	3	29	24	117	.8	66	7	1
SOIL 36	19	38	38	680	.5	823	9	3
SOIL 37	25	52	16	326	.1	193	8	1
SOIL 38	24	35	17	302	.1	193	6	1
SOIL 39	24	40	21	235	.2	122	6	1
SOIL 40	20	50	29	512	.5	981	8	1
SOIL 41	10	63	22	422	.2	387	8	1
SOIL 42	5	25	12	93	.4	61	5	1
SOIL 43	18	59	61	461	1.0	370	7	1
SOIL 44	15	42	25	697	.3	648	5	1
SOIL 45	17	25	20	147	.7	236	4	1
SOIL 46	33	47	11	853	.2	666	7	1
SOIL 47	23	61	27	664	.8	761	4	4
SOIL 48	13	48	17	136	.1	48	4	1
SOIL 49	11	44	26	999	.3	117	4	1
SOIL 50	13	38	22	135	.2	75	4	1
SOIL 51	27	26	19	145	.1	91	4	1
SOIL 52	15	41	27	187	.4	461	7	2
SOIL 53	5	32	17	995	.7	798	2	1
SOIL 54	9	73	28	1099	.1	797	6	2
SOIL 55	4	51	29	482	.2	609	10	16
SOIL 56	3	42	32	369	.6	891	6	1
SOIL 57	3	63	21	210	.2	703	7	1
SOIL 58	2	95	39	403	.3	596	6	1
SOIL 59	3	70	161	563	.6	837	3	1
SOIL 60	1	45	18	111	.1	46	3	1
SOIL 61	2	34	11	91	.3	52	2	1
SOIL 62	1	51	30	133	.1	45	2	1
SOIL 63	1	39	24	115	.1	31	2	1
SOIL 64	1	25	17	79	.6	58	4	1
SOIL 65	2	30	37	172	.1	62	2	2
SOIL 66	1	24	13	81	.3	19	2	1
SOIL 67	1	36	18	102	.1	30	3	1
SOIL 68	1	40	25	128	.2	56	4	1
SOIL 69	1	30	16	119	.1	50	4	1

TABLE OF SILT ANALYSES

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	AS PPM	SB PPM	AU# PPB
76162	17	48	48	235	.9	567	11	18
76165	31	92	122	460	1.7	1477	23	101
099135	1	27	18	121	.1	22	2	2
099136	1	34	17	127	.1	16	2	2
099137	1	37	18	115	.2	9	2	1
099138	1	35	14	117	.1	14	2	1
099139	1	25	15	121	.1	19	2	1
099140	2	25	19	123	.2	17	2	1
099141	1	34	19	114	.1	21	2	2
099142	2	28	18	120	.1	50	2	1
099143	1	41	19	117	.1	38	2	1
099203	4	60	80	628	.3	770	24	1
19666	5	82	81	756	.6	803	2	29
19670	4	51	35	634	.6	421	2	16
99144	2	36	19	100	.1	112	2	2

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,601

NOTE : Topography based on photocopy enlargement of N.T.S. 1:50,000 scale map 93M/5,6

0 100 200 300 400 500 m
SCALE 1 : 5,000

REVISED Dec 87 dm

PINENUT CREEK OPTION

SOIL AND SILT GEOCHEM SURVEY

PROJ. No. 287
N.T.S. 93M/5,6
DWG No. FIG. 4

SURVEY BY: R. DAY, DEMJr — DATE: AUG., 1987
DRAWN BY: SKB — SCALE: 1 : 5,000

NORANDA EXPLORATION
OFFICE: PRINCE GEORGE, B.C.