

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

NTS: 104 B-11

ASSESSMENT REPORT

ON THE

SNIP 1,2,3,4 AND 5 MINERAL CLAIMS

LIARD MINING DIVISION

LATITUDE: 56°41'N; LONGITUDE 131°05'W

CLAIM OWNER AND OPERATOR: COMINCO LTD.

PERIOD OF WORK SEPTEMBER 25-30, 1985

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,166

DECEMBER 18, 1985

R.J. SHARP

TABLE OF CONTENTS

	<u>Page</u>
I. INTRODUCTION	1
II. DETAILED TECHNICAL DATA AND INTERPRETATION	1
FIGURE 1 LOCATION MAP	3
FIGURE 2 LOCATION AND CLAIM MAP	4
PLATE 1 PLAN MAP OF GEOCHEMICAL SURVEY	(In pocket)
APPENDIX 1A - ROCK GEOCHEMICAL RESULTS	
APPENDIX 1B - SOIL GEOCHEMICAL RESULTS	
APPENDIX II - ITEMIZED COST STATEMENT	
APPENDIX III - STATEMENT OF QUALIFICATIONS	

ASSESSMENT REPORT

SNIP 1,2,3,4 AND 5 MINERAL CLAIMS

I. INTRODUCTION

The SNIP 1,2,3,4 and 5 mineral claims are located 110 km NW of Stewart, B.C. (See Figures 1 and 2). Geographic coordinates are 56°41'N latitude and 131°05'W longitude, which lies within map NTS 104 B-11.

Access to the claims is by helicopter from Stewart or from Dease Lake. Fixed wing air service from Terrace is able to land on the gravel strip at Snippaker Creek, 22 km SE of the claims.

The claims cover the transition from the Iskut river valley floor to the cirque on Johnny Mountain. Topography is generally steep except in valley bottoms covered with either muskeg or gravel outwash. The area is heavily vegetated with giant cedar trees, typical of coastal rainforest, or abundant alder and devils club on the steep slopes.

The SNIP 1-5 claims were staked in 1980 and 1983 to cover ground favourable for gold mineralization. A trenching program in 1982 carried out work on gold showings on SNIP 1, near the top of the ridge on the claim group. The current program of soil and rock sampling was done to evaluate the potential on the lower elevations of the claim group.

The survey consists of 26 rock samples and 36 soil samples. Work was carried out between September 25 and 30, 1985. The samples and results are listed separately in the appendix.

Work was performed on following claims:

<u>Claim No.</u>	<u>Record No.</u>
SNIP 1	1745
2	1746
3	2991
4	2992
5	2993

II. DETAILED TECHNICAL DATA AND INTERPRETATION

The geochemical survey consisted of soil, silt and rock sampling on the Snip claims. Soil samples were taken along reconnaissance lines parallel to topographic contours on the claims. The B horizon 15-25 cm below the surface was sampled routinely. Silt samples from small creeks were collected in several

localities. Rock samples, weighing 2 kg, were taken from outcrops near the soil sites.

All sample sites were marked with orange flagging. Soil and silt samples were stored in large kraft envelopes. Rock samples were stored in heavy plastic sample bags.

The soil and silt samples were dried, the rock samples were crushed; the sample material was then sieved to minus 80 mesh, and the fines retained for analysis. Arsenic was released from the samples by pyrosulfate fusion and its concentration was estimated colorimetrically. Gold values were obtained by aqua regia digestion of sample material, followed by solvent extraction and atomic absorption spectrophotometry.

Copper, lead, zinc contents were determined by atomic absorption spectrophotometry of solutions obtained by 20% nitric acid digestion of sieved material.

The analytical results are given in Appendix I, and shown in Plate 1. There are too few samples to establish any meaningful statistical distribution of gold or arsenic, so arbitrary thresholds of 50 ppb Au and 30 ppm As have been chosen.

The only anomalous results come from portions of Snip 5 and Snip 2. Soil anomalies in the western part of Snip 5 probably are derived from glacial transport of anomalous rock material eroded from the cliffs on Snip 2. Soil and rock anomalies in the eastern part of Snip 5 and Snip 2 are generally low level and may reflect some local enrichment in the underlying bedrock.

Several elevated Ag, Pb, Zn values in rocks occur in the western portion of Snip 1. No base metal sulfides were seen in rock specimens sent for analysis.

Reported by: _____

R.J. Sharp
R.J. Sharp
Geologist

Endorsed for
Release By: _____

W.J. Wolfe
W.J. Wolfe
Manager, Exploration -
Western Canada

RJS/cgs
Distribution
Mining Recorder
Western District
RJS

APPENDIX 1A

SNIP PROPERTY

ROCK GEOCHEMICAL RESULTS

SAMPLE NO.	Au PPB	As BPM	Ag PPM	Pb PPM	Zn PPM	Cu PPM	ROCK TYPE
OS-24	<10	<2	.6	<4	37	1	Argillite
S-122	<10	6	.6	121	139	81	Chlorite-Actinolite Rock
S-122B	<10	3	4.7	525	2400	299	Pyritic Felsite
S-123	<10	7	<.4	31	120	51	Altered Dacite
S-124	<10	2	<.4	7	196	39	Altered Diorite
S-125	<10	3	<.4	8	31	2	Altered Diorite
S-126	<10	<2	<.4	17	106	25	Felsite Dike
S-127	<10	5	.4	24	65	13	Diorite
S-128	<10	8	<.4	9	127	12	Pyritic Felsite
S-129	<10	5	.4	<4	22	<1	Pyritic Felsite
S-130	42	2	.4	<4	84	41	Altered Siltstone
S-131	<10	4	2.6	643	1750	34	Altered Siltstone
S-132	32	7	.8	34	155	185	Pyritic Siliceous Slt.
S-133	36	22	1.6	<4	63	437	Silic. Hornfelsesd Slt.
S-134	24	5	<.4	34	51	273	Silic. Hornfelsesd Slt.
S-135	40	11	<.4	<4	66	263	Silic. Slt-Impure Qtz.
S-136	<10	20	.7	4	193	146	Siliceous Siltstone
S-138	<10	3	<.4	<4	76	156	Hornfelsesd Siltstone
S-139	<10	14	<.4	<4	107	10	Siliceous Siltstone
S-140	56	5	.6	<4	74	222	Pyritic Metasiltstone
S-141	<10	<2	<.4	<4	79	24	Hornfelsesd Siltstone
S-147	368	29	.9	<4	42	77	Altered Feldspar Porphyry
S-148	442	30	1	33	44	255	Sericite Qtz. Py. Rock
S-149	80	<2	.8	<4	9	17	Pyritic Qtz. Veins
S-150	64	3	.7	<4	46	30	Altered Feldspar Porphyry
S-151	<10	29	<.4	<4	59	37	Orthoclase Porphyry

SNIP - SOIL GEOCHEMISTRY

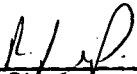
SAMPLE No.	# MAT'L OPTG	SITE	COLOUR	SIZE	OPG	DEPTH WIDTH FLOW			Au PPB	Mg Au PPM	As PPB	
						MET	CM	SLOPE HORIZ				
505-47	4	SOIL PESIS	RED-BROWN	SANDY-SILT	LOW	Dry	25	STEEP	C	12	10	14
505-48	4	PAN PESIS	MED-BROWN	SILT	LOW	Dry	25	MED	D	10	10	15
505-49	4	SOIL PESIS	DK-BROWN	GRAVLY-SILT	LOW	Dry	30	MED	D	35	10	20
505-50	4	SOIL PESIS	RED-BROWN	SILT	LOW	Dry	30	MED	D	10	10	15
505-51	4	SOIL PESIS	MED-BROWN	SILT	LOW	Dry	30	MED	D	29	10	23
505-52	4	PAN PESIS	DK-BROWN	SILT	LOW	Dry	30	LOW	D	248	10	82
505-54	4	SOIL ALLUV	GRY-BROWN	GRAVLY-SAND	MED	Dry	15	LOW	D	39	10	66
505-56	4	SOIL ALLUV	BRN-GRAY	SAND	LOW	Dry	30	FLAT	D	30	10	10
505-57	4	SOIL ALLUV	MED-BROWN	SAND	LOW	Dry	15	FLAT	D	276	10	53
505-58	4	SOIL ALLUV	MED-BROWN	SAND	LOW	Dry	15	FLAT	D	166	10	24
505-59	4	SOIL ALLUV	MED-BROWN	GRAVLY-SILT	LOW	Dry	20	FLAT	D	75	10	41
505-60	4	SOIL ALLUV	MED-BROWN	SILT	LOW	Dry	25	FLAT	D	120	10	40
505-61	4	SOIL ALLUV	DK-BROWN	GRAVLY-SAND	LOW	Dry	20	FLAT	D	76	10	48
505-62	4	SOIL ALLUV	MED-BROWN	SANDY-GRAVEL	LOW	Dry	25	FLAT	D	I	10	37
505-63	4	SOIL ALLUV	MED-BROWN	GRAVLY-SAND	LOW	Dry	15	FLAT	D	260	10	57
505-64	4	SOIL PESIS	RED-BROWN	GRAVLY-SILT	LOW	Dry	30	LOW	D	10	10	23
505-29	4	SOIL PESIS	RED-BROWN	CLAYEY-SILT	LOW	Dry	15	STEEP	D	10	10	10
505-25	4	SOIL PESIS	YEL-BROWN	CLAYEY-SILT	LOW	Dry	30	MED	C	410	10	4
505-26	4	SOIL PESIS	RED-BROWN	CLAYEY-SILT	LOW	Dry	30	FLAT	D	10	10	15
505-27	4	SOIL PESIS	BRN-RED	CLAYEY-SILT	LOW	Dry	30	STEEP	C	10	10	22
505-28	4	SILT	Dry	DK-BROWN	SANDY-SILT	LOW		S. N	FAST	10	10	8
505-29	4	SOIL PESIS	RED-BROWN	CLAYEY-SILT	LOW	Dry	30	MED	D	410	10	21
505-30	4	SOIL PESIS	RED-BROWN	CLAYEY-SILT	LOW	Dry	30	STEEP	D	410	10	11
505-31	4	SILT	ACTIVE	MED-BROWN	GRAVLY-SAND	MED		I. N	FAST	410	10	25
505-32	4	SOIL PESIS	RED-BROWN	CLAYEY-SILT	LOW	Dry	30	STEEP	C	410	10	22
505-33	4	SOIL PESIS	MED-BROWN	CLAYEY-SILT	LOW	Dry	30	STEEP	C	10	10	23
505-34	4	SOIL PESIS	RED-BROWN	GRAVLY-SILT	LOW	Dry	30	STEEP	C	20	10	20
505-35	4	SILT	ACTIVE	MED-BROWN	SILTY-SAND	LOW		2. N	MED	410	10	15
505-36	4	SOIL PESIS	DK-BROWN	CLAYEY-SILT	LOW	Dry	25	MED	D	30	10	25
505-37	4	SOIL PESIS	RED-BROWN	CLAYEY-SILT	LOW	Dry	30	STEEP	D	410	10	10
505-38	4	SOIL PESIS	BRN-RED	CLAYEY-SILT	LOW	Dry	30	LOW	D	410	10	13
505-39	4	SOIL PESIS	MED-BROWN	CLAYEY-SILT	LOW	Dry	30	MED	D	410	10	18
505-40	4	SOIL PESIS	RED-BROWN	CLAYEY-SILT	LOW	Dry	30	MED	D	410	10	14
505-41	4	SOIL PESIS	RED-BROWN	CLAYEY-SILT	LOW	Dry	30	STEEP	D	10	10	15
505-42	4	SOIL PESIS	DK-BROWN	SILTY-GRAVEL	MED	Dry	30	STEEP	D	190	10	120
505-43	4	SOIL PESIS	RED-BROWN	GRAVLY-SILT	LOW	Dry	30	STEEP	D	81	10	23

APPENDIX IB

APPENDIX II

ITEMIZED COST STATEMENT

Helicopter & Fuel (3.8 hours x \$664.10/hour)	\$2,523.58
Truck Rental & Milage (Mob-Demob)	527.05
Truck Fuel	295.00
Radio Rental	90.00
Salaries: R.J. Sharp 5 days @ \$198/day	
D.A. O'Brien 5 days @ \$97.68/day	1,478.40
Geochemistry: 36 soils x \$12.50/sample	
26 rocks x \$16.70/sample	884.20
Field Supplies	35.00
Expense Accounts (Mob-Demob, Food, Hotel)	380.00
Camp Cost (Supplies, Food)	200.00
Drafting and Report Preparation	250.00
	<u>\$6,663.20</u>



R.J. Sharp
Geologist, Exploration
Cominco Ltd.

APPENDIX III

STATEMENT OF QUALIFICATIONS

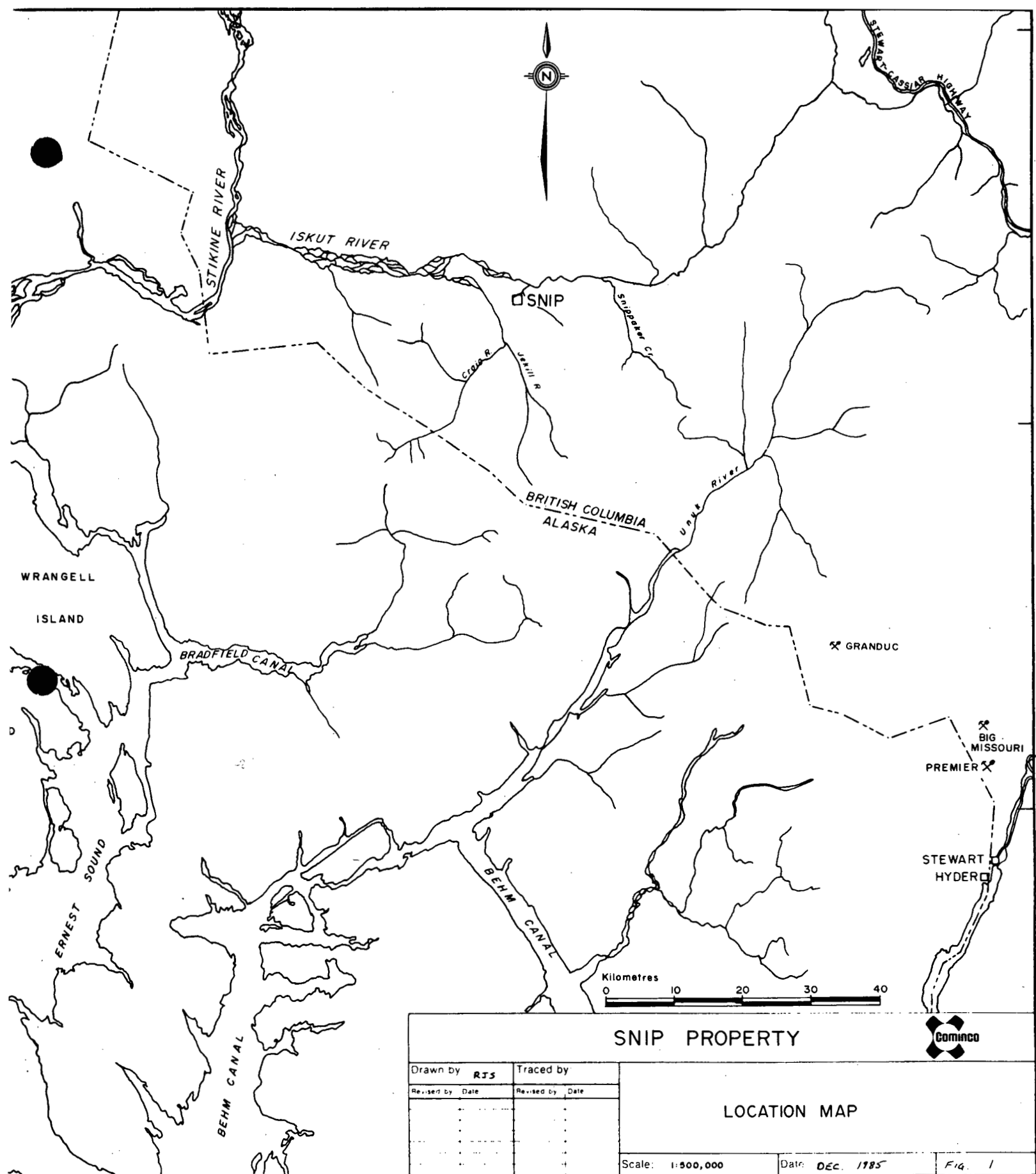
I, ROBERT J. SHARP, of the City of Vancouver, in the Province of British Columbia, hereby certify:

1. THAT I am a geologist residing at 404-1365 West 4th Avenue, Vancouver, British Columbia, with a business address at 700-409 Granville Street, Vancouver, British Columbia.
2. THAT I graduated with a B.Sc. in Mineral Engineering from the University of Alberta in 1975 and in 1980 I graduated with an M.Sc in Geology from the University of Alberta.
3. THAT I have practiced geology with the Union Oil Co. of Canada Limited from 1978 until 1980 and that I have practiced geology with Cominco Ltd. from March 1980 to the present.

Signed: _____

Robert J. Sharp
Robert J. Sharp
Geologist

October 24, 1985



WRANGELL
ISLAND

BRADFIELD CANAL

SNIP

BRITISH COLUMBIA
ALASKA

GRANDUC

BIG MISSOURI

PREMIER

STEWART HYDER

Kilometres
0 10 20 30 40

SNIP PROPERTY



Drawn by	RTS	Traced by	
Revised by	Date	Revised by	Date

LOCATION MAP

Scale: 1:500,000 Date: DEC. 1985 FIG. 1

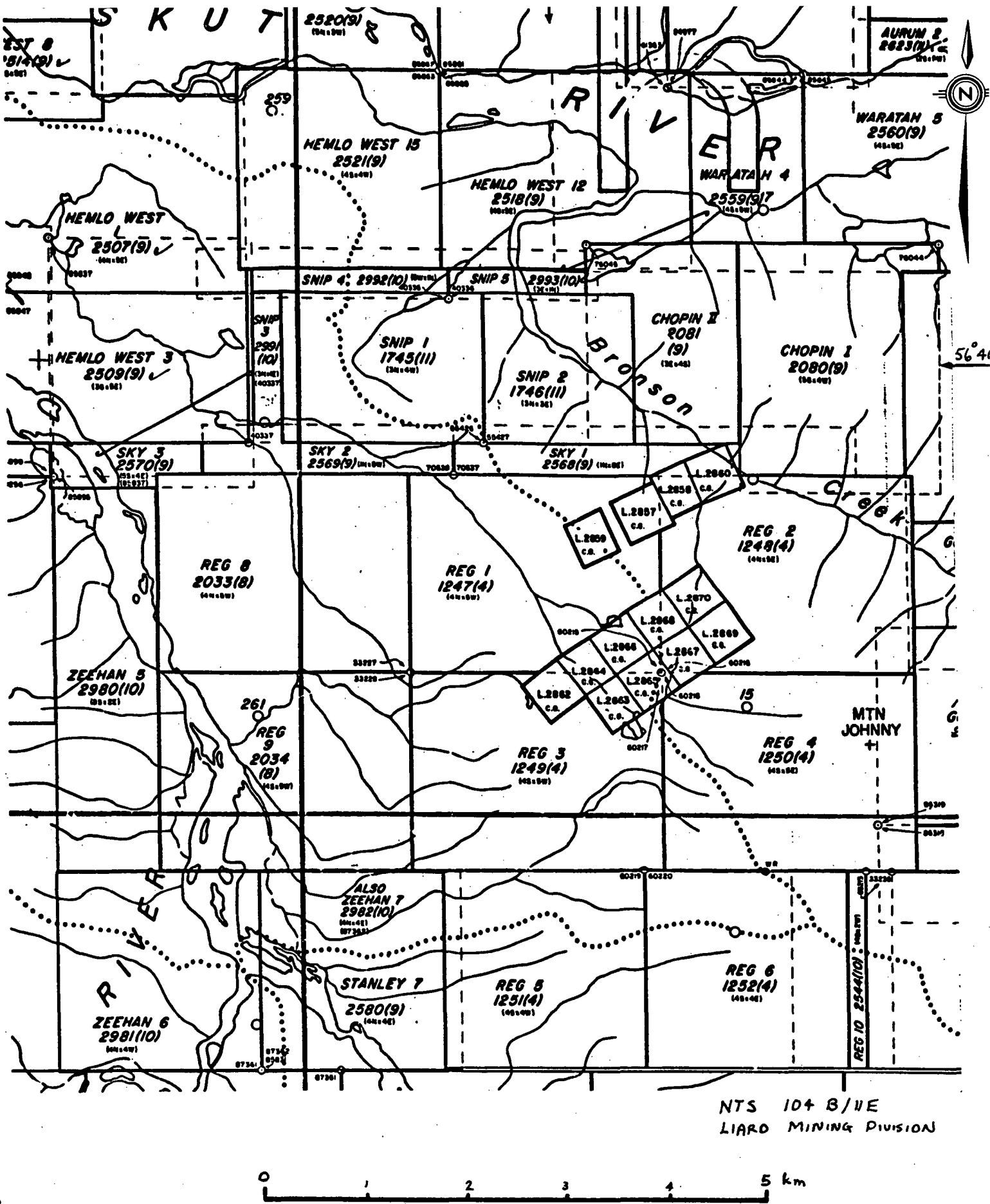
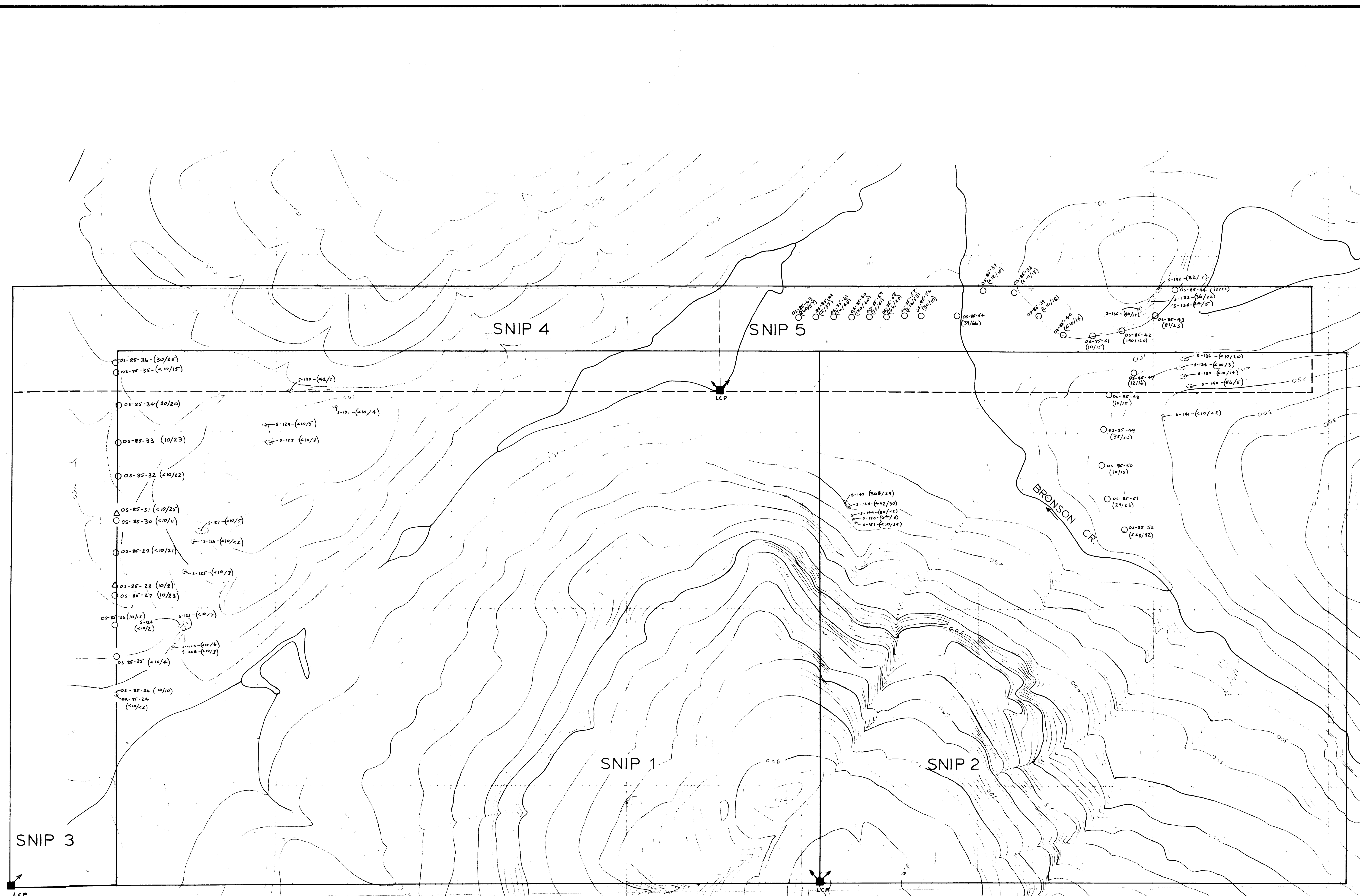


FIGURE 2
CLAIM AND LOCATION MAP OF SNIP CLAIMS



ROCK GEOCHEMICAL RESULTS

SAMPLE NO.	Au PPM	As PPM	Ag PPM	Pb PPM	Zn PPM	Cu PPM	ROCK TYPE
OS-24	<10	<2	<4	<4	37	1	Argillite
S-122	<10	6	121	139	81		Chlorite-Actinolite Rock
S-122B	<10	3	4.7	325	2400	299	Pyritic Felstone
S-123	<10	7	<4	31	120	51	Altered Ductite
S-124	<10	2	<4	7	196	39	Altered Diorite
S-125	<10	3	<4	8	31	2	Altered Diorite
S-125	<10	<2	<4	17	106	25	Felsite Dike
S-127	<10	5	<4	24	65	13	Diorite
S-128	<10	8	<4	9	127	12	Pyritic Felstone
S-129	<10	5	<4	<4	22	<1	Pyritic Felstone
S-130	42	2	<4	<4	84	41	Altered Siltstone
S-131	<10	4	2.6	643	1750	34	Altered Siltstone
S-132	32	1.8	34	155	185		Pyritic Siliceous Silt.
S-133	36	22	1.6	64	63	437	Silic. Hornfelsed Silt.
S-134	24	5	<4	34	51	273	Silic. Silt-sandstone
S-135	40	11	<4	<4	66	263	Silic. Silt-sandstone
S-136	<10	20	<4	<4	193	146	Siliceous Siltstone
S-138	<10	3	<4	<4	76	136	Hornfelsed Siltstone
S-139	<10	14	<4	<4	107	10	Siliceous Siltstone
S-140	56	5	<4	<4	74	222	Pyritic Metasiltstone
S-141	<10	<2	<4	<4	79	24	Hornfelsed Siltstone
S-147	368	29	<4	<4	42	77	Altered Feldspar Porphyry
S-148	442	30	1	33	44	255	Sericite Qtz. Py. Rock
S-149	80	<2	<4	<4	9	17	Pyritic Qtz. Veins
S-150	64	3	<4	<4	46	30	Altered Feldspar Porphyry
S-151	<10	29	<4	<4	59	37	Orthoclase Porphyry

SNIP - SOIL GEOCHEMISTRY

SAMPLE No.	NAT'L. MFG. SITE	COLOR	SIZE	DIR.	WET	IN	SLOPE	HORIZ.	Au PPM	As PPM	Ag PPM		
58F-07	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	25	Step	C	12	10	14
58F-08	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	25	Step	C	10	10	15
58F-09	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	B	35	10	20
58F-10	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	B	10	10	15
58F-11	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	B	10	10	15
58F-12	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	B	2.4	10	46
58F-13	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	B	3.0	10	15
58F-14	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	B	2.74	10	53
58F-15	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	B	14.4	10	24
58F-16	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	25	Step	B	7.5	10	40
58F-17	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	25	Step	B	12.0	10	40
58F-18	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	25	Step	B	7.9	10	40
58F-19	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	25	Step	B	2	10	37
58F-20	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	15	Step	C	26.0	10	57
58F-21	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-22	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	15	Step	B	10	10	15
58F-23	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	4.0	10	15
58F-24	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-25	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-26	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-27	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-28	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-29	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-30	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-31	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-32	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-33	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-34	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-35	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-36	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-37	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-38	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-39	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-40	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-41	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-42	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-43	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-44	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-45	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-46	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-47	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-48	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-49	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-50	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-51	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15
58F-52	4	Soil. Pk212	Psy-sand	Sand	SILT	Low	Dr	30	Step	C	10	10	15

LEGEND

- SOIL SAMPLE
- ROCK SAMPLE
- △ SILT SAMPLE

GEOLOGICAL BRANCH ASSESSMENT REPORT

14,166



LIARD MINING DIVISION

SNIP CLAIMS		N.T.S. 104 B 11 E	
Drawn by: R. J. S.	Traced by:		
Revised by:	Date:	Revised by:	Date:
GEOCHEMISTRY			
Scale: 1:5,000	Date: Dec. 1985	Plate:	1