

LOG NO: 0216	ED.
ACTION:	
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GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE

FILMED

MARIE PROPERTY

(MARIE 1 TO 7 MINERAL CLAIMS)

OMINECA MINING DIVISION

N.T.S. 93 N/02

SITUATED AT CO-ORDINATES: 55° 03' N  
124° 53' W

NORANDA EXPLORATION COMPANY, LIMITED  
(NO PERSONAL LIABILITY)

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

BY: TERRY CAMPBELL

JANUARY, 1989

18,393

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SUMMARY:

The Marie property was acquired in the fall of 1987 to secure the drainage basins of several anomalous creeks. More ground was staked in the summer of 1988. Preliminary geologic mapping and soil sampling was conducted by Noranda personnel in 1988. 33.35 km of recon soil grid was established and 7.875 km of detailed sampling lines were added to the grid.

Soil geochemistry failed to outline any large areas of anomalous geochem, but several isolated copper and gold geochemical anomalies warrant further sampling and mapping.

## INTRODUCTION:

The property was staked in the fall of 1987 to cover the drainage areas of creeks that were found to have anomalous gold values in silt samples and pan concentrate samples. The Marie 5, 6 and 7 claims were added to the property in 1988 to cover a kink in an airborne magnetic anomaly. Preliminary geologic mapping and soil sampling were conducted in 1988. A large recon grid with baseline azimuth 090 degrees was established and detailed sampling was completed around anomalous samples.

## LOCATION & ACCESS:

The claims are located approximately 10 km south of Mt. Alexander, approximately 90 km northwest of Fort St. James.

Access to the property is via the #100 logging road, off of the Leo Creek forest service road. Part of the property has been logged recently. The remaining logging trails provide good access to the lower lying areas of the property.

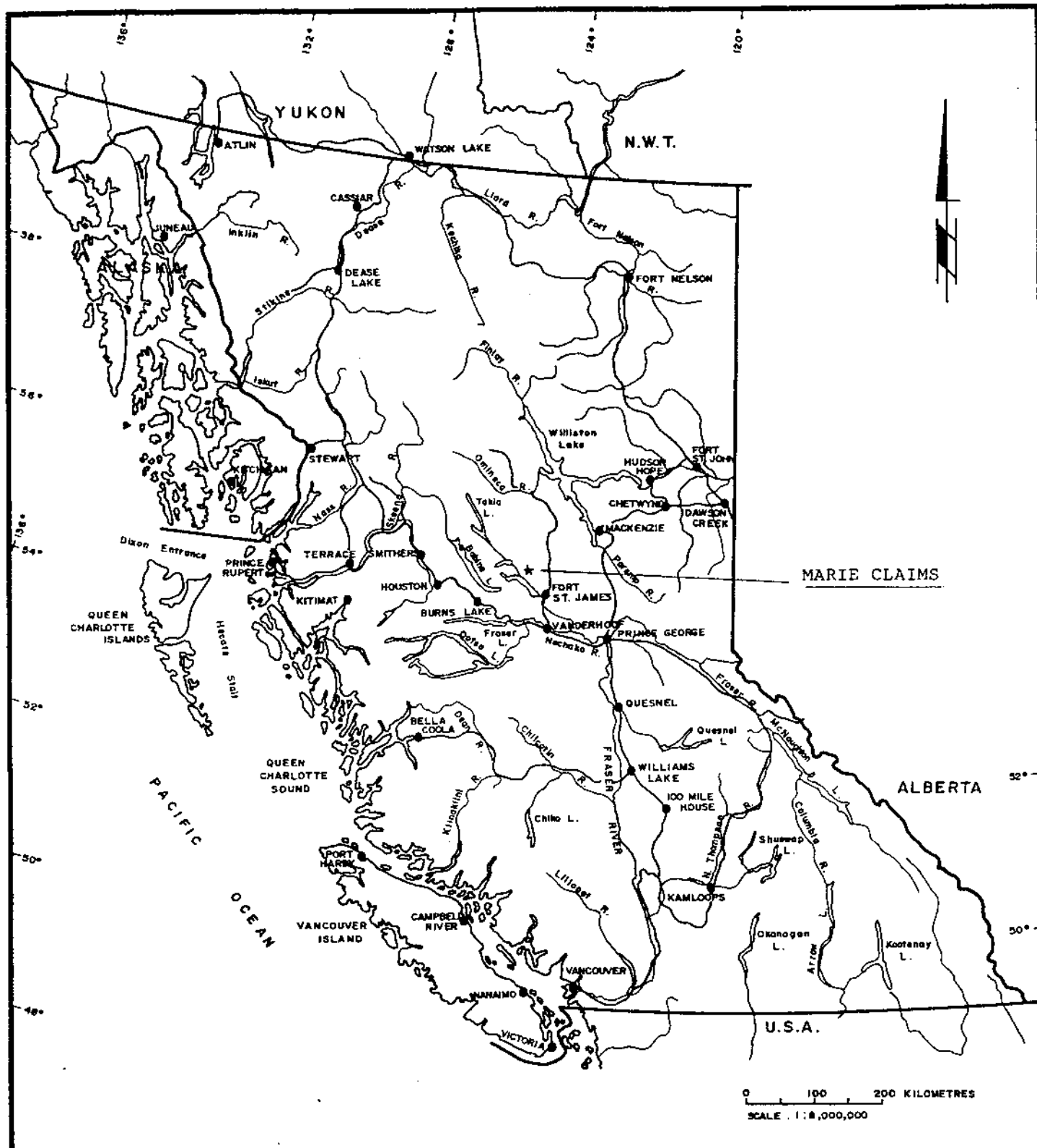
## CLAIM STATISTICS:

<u>CLAIM NAME</u>	<u>RECORD #</u>	<u># UNITS</u>	<u>DATE DUE</u>
Marie 1	9176	20	Nov. 13, 1989
Marie 2	9177	20	Nov. 13, 1989
Marie 3	9193	16	Nov. 25, 1989
Marie 4	9194	8	Nov. 25, 1989
Marie 5	9649	18	Aug. 11, 1989
Marie 6	9650	18	Aug. 11, 1989
Marie 7	9651	9	Aug. 11, 1989

## TOPOGRAPHY & VEGETATION:

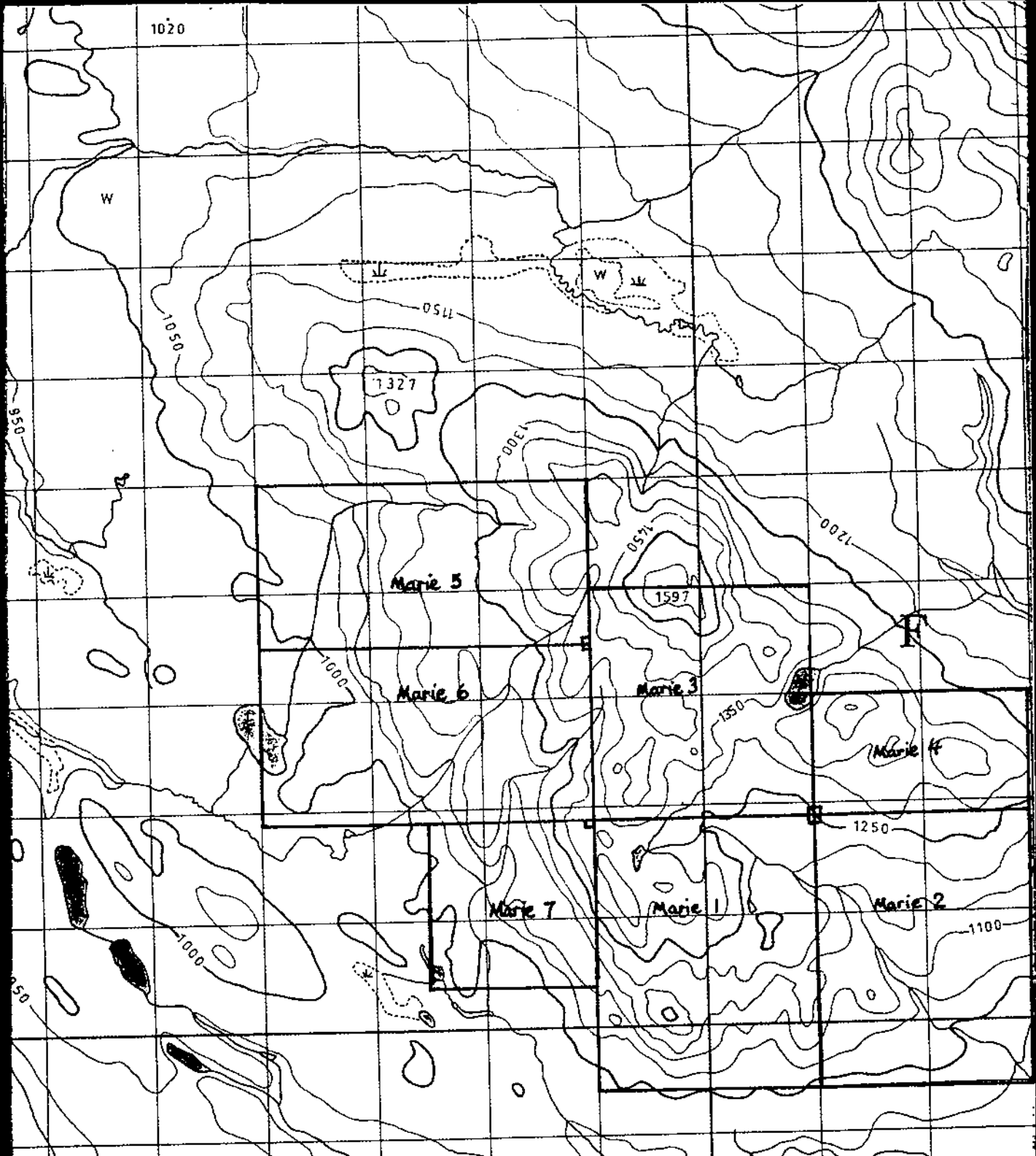
The elevation ranges from 950 to 1537 meters. The property consists of pine flats and swamps to steep forested slopes.

The vegetation consists of mature stands of spruce, pine and balsam. Logging has taken place in the lower areas of the property. Undergrowth is mainly small cedar, alder, willows and devils club.



REVISED	LOCATION MAP	
	Marie Claims	
PROJ. No. 283	SURVEY BY: T. Campbell	DATE: Jan/89
N.T.S.	DRAWN BY: S.K.B.	SCALE: 1:8,000,000
DWG. No.	<b>NORANDA EXPLORATION</b>	
1	OFFICE: PRINCE GEORGE, B.C.	

VANCAL 11927



REVISED	CLAIM MAP	
	MARIE CLAIMS 1 to 7	
PROJ. No. 283	SURVEY BY: T. Campbell	DATE: Jan/89
N.T.S. 93NZ	DRAWN BY: S. Buziak	SCALE: 1:50,000
DWG. No. 2	<b>NORANDA EXPLORATION</b>	
	OFFICE: Prince George BC	

## REGIONAL GEOLOGY:

The Marie property lies in a broad northwest trending package of rocks known as the Quesnel Trough. These include Upper Triassic to Lower Jurassic volcanics and sediments which have been intruded by the Hogem Batholith and numerous other felsic to mafic stocks, ranging in age from Triassic to Cretaceous.

The Quesnel Trough is bounded to the west by the Pinchi Fault.

## LOCAL GEOLOGY:

Outcrop on the Marie property is sparse. The observed outcrop indicates the property is underlain by basalts, andesites and some intrusive diorites.

The basalt is slightly amygdaloidal, calcareous and green in color.

The andesite is light grey.

The above units are intruded by diorite, possibly belonging to the Hogem Batholith stock.

## PREVIOUS WORK:

A large amount of previous work has been performed on the Jean and JW group of claims. The earliest recorded work was done by the N.B.C. Syndicate. Between the years 1969 and 1974, they did work leading up to 10,495' of percussion drilling in 1974. In 1975, Cominco performed geophysics and 2499' of diamond drilling on the property. In 1981, Cominco and Noranda flew 355 km<sup>2</sup> of Airborne Magnetic survey. In 1983, Cominco took 344 soil and 12 silt samples.

## GEOCHEMISTRY:

A total of 818 soil samples were collected on the Marie property during the 1988 field season. 33.35 km on recon soil lines were hip-chained and compassed. The soil lines are 500 meters apart and samples were taken at 50 meter intervals. 7.875 km of detailed soil lines were added to the grid to define anomalous values. Samples were taken at 25 meter intervals on these lines.

### Method -

The samples were removed with a soil auger from the 'B' soil horizon, 20-35 cm below the surface. The samples were placed in kraft wet-strength paper envelopes, dried and sent to Noranda's lab at 1050 Davie St., Vancouver, B. C. The samples were analyzed for copper and gold. The results are plotted on Figures 4 to 8, located in the pocket file. Appendix III described the analytical procedure.

### Observations -

There are numerous small anomalous zones found throughout the property. The values for gold range from 10 to 340 ppb. Values >10 ppb are considered to be anomalous. The values for copper range from 2 to 490 ppm. Values >100 ppm are considered to be anomalous.

Gold - 23 samples were found to be anomalous for gold.

<u>Location</u>	<u>Value (ppb Au)</u>
6000E 12600N	40
6500E 12050N	40
6500E 12350N	40
7000E 11850N	30
8000E 10750N	30
8500E 8950N	70
8500E 9100N	50
9000E 9950N	40
9000E 11900N	240
9500E 7600N	60
9500E 9350N	20
9500E 9500N	340
9500E 9800N	60
10000E 7650N	40
8900E 11625N	40
8900E 11850N	20
8900E 12000N	30
9100E 11775N	20
9100E 11850N	50
9300E 9500N	30
10100E 7675N	30
7525E 11375N	30
9700E 7525N	70



The Gold anomalies on this property are sporadic and isolated.

Copper - 41 samples were found to be anomalous for copper.

<u>Location</u>	<u>Value (ppm Cu)</u>
6500E 11700N	110
7500E 11650N	110
8000E 8000N	110
8000E 8550N	490
8000E 8650N	150
8500E 10300N	150
8500E 10350N	130
8500E 11200N	220
8500E 11350N	110
8500E 11650N	160
9000E 11950N	120
9000E 12000N	120
9500E 9500N	290
10000E 7800N	160
10000E 8150N	110
10500E 9150N	190
10500E 9750N	130
10500E 10000N	110
10500E 10750N	170
11000E 10100N	110
11000E 10550N	110
11000E 10950N	240
8800E 12000N	110
8900E 11700N	130
8900E 11775N	280
9100E 11900N	100
9200E 11950N	240
9300E 9600N	130
9300E 9625N	210
9300E 9650N	190
9400E 7525N	110
9600E 7550N	100
9800E 7625N	240
9900E 7650N	120
10100E 7900N	100
6000E 12600N	170
6475E 12375N	150
8025E 10750N	140
9025E 9950N	160
9600E 9675N	100
9700E 9225N	150

The copper anomalies on this property are sporadic and isolated.

## CONCLUSIONS:

A total of 64 soil samples were found to be anomalous for gold or copper. The anomalous samples are scattered throughout the property. A few of the anomalous values are concentrated in small groups.

## RECOMMENDATIONS:

Establish a detailed soil grid around the anomalies located at 8000E, 8550N and 8000E, 8650N. The grid should consist of two lines: 7900E, 8450N to 8750N and 8100E, 8450N to 8750N. (See Figure 8)

Prospect and map around the mini grid that surrounds 9500E, 9500N. (See Figure 7)

Establish more recon soil lines: 10,000E, 10,000N to 12,000N; 11,500E, 10,000N to 11,000N; and 12,000E, 10,000N to 11,000N. Samples should be taken at 50 meter intervals.

APPENDIX I

STATEMENT OF COSTS

A)	<b>WAGES:</b>		
	Geology - 6 days @ \$155/day	\$	930.00
	Linecutting - 8 days @ \$100/day	\$	800.00
	Soil sampling - 8 days @ \$100/day	\$	800.00
B)	<b>FOOD, ACCOMMODATIONS &amp; TRANSPORTATION:</b>		
	22 days @ \$50/day	\$	1,100.00
C)	<b>COST OF ANALYSIS:</b>		
	818 soils for Cu, Au @ \$8.75/sample	\$	7,157.50
D)	<b>COST OF REPORT PREPARATION:</b>		
	Author \$200.00		
	Drafting \$200.00		
	Typing \$ 50.00	\$	450.00
			-----
	<b>Total Cost</b>		<b>\$11,237.50</b>

APPENDIX *II*

STATEMENT OF QUALIFICATIONS

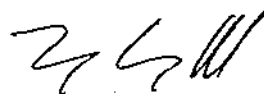
I, Terrence Campbell, of Prince George, Province of British Columbia, do hereby certify that:

1. I am a geologist residing at 7740 Gladstone Drive, Prince George, British Columbia.

2. I am a 1985 graduate of the University of British Columbia, B.Sc. (Geology).

3. I am a member in good standing of the British Columbia Yukon Chamber of Mines.

4. I presently hold the position of Field Geologist with Noranda Exploration Company, Limited (no personal liability) and have been in their employ since 1986.



Terrence Campbell

## APPENDIX III

### ANALYTICAL METHOD DESCRIPTIONS FOR GEOCHEMICAL ASSESSMENT REPORTS

Revised: 01/86

The methods listed are presently applied 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 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 attacked with 3.3 mL of 6X 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 - 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 - 0.01 (10PPB)
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 IV

NORANDA VANCOUVER LABORATORY

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PROPERTY/LOCATION: MARIE

CODE : 8808-097

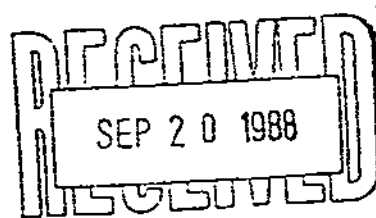
Project No. : 283  
 Material : 487 SOILS  
 Remarks :

Sheet: 1 of 9  
 Geol.: G.M.

Date rec'd: AUG 25  
 Date compl: SEP 16

Values in PPM, except where noted.

T.	SAMPLE No.	Cu	PPB Au
2	6000E-11000N	28	10
3	11050	16	10
4	11100	84	10
5	11150	54	10
6	11200	48	10
7	11250	42	10
8	11300	42	10
9	11350	18	10
10	11450	14	10
11	11500	22	10
12	11550	24	10
13	11600	22	10
14	11650	16	10
15	11700	88	10
16	11750	32	10
17	11800	64	10
18	11850	14	10
19	11900	20	10
20	11950	16	10
21	12000	20	10
22	12050	38	10
23	12100	70	40
24	12150	24	10
25	6000E-12200N	70	10
26	6500E-11000N	66	10
27	11050	32	10
28	11100	52	10
29	11150	28	10
30	11200	110	10
31	11250	56	10
32	11300	24	10
33	11350	32	10
34	11400	44	10
35	11450	14	10
36	11500	18	10
37	11550	30	40
38	11600	18	10
39	11850	54	40
40	11900	80	10
41	12050	34	10
42	12100	22	10
43	12150	38	10
44	12200	20	10
45	6500E-12250N	36	10
46	7000E-11000N	16	10
47	11050	20	10
48	11100	24	10
49	7000E-11250N	86	10



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L	SAMPLE No.	PPB	
		Cu	Au
0	7000E-11450N	18	10
1	11600	22	10
2	11650	18	10
3	11850	64	10
4	11900	44	10
5	11950	48	10
5	12000	22	10
7	12050	20	10
8	12100	44	10
9	12150	16	10
0	7000E-12200N	56	10
1	7500E-11050N	74	10
2	11100	64	10
3	11150	110	10
4	11250	94	10
5	11450	42	10
6	11300	74	10
7	11350	88	30
8	11400	20	10
9	11450 DUPL.	30	10
0	11550	68	10
1	11600	40	10
2	11650	24	10
3	11700	86	10
4	11750	84	10
5	11800	66	10
6	11850	80	10
7	11900	82	10
8	11950	42	10
9	12000	40	10
0	12050	44	10
31	12100	58	10
32	12150	80	10
33	7500E-12200N	78	10
34	8000E-8000N	110	10
35	8150	20	10
36	8200	14	10
37	8250	46	10
38	8300	16	10
39	8350	18	10
30	8400	10	10
31	8450	24	10
32	8500	22	10
33	8550	490	10
34	8600	46	10
35	8650	150	10
36	8700	20	10
37	8750	10	10
38	8800	10	10
39	8000E-8850N	14	10
00	CHECK NL-6	46	-
01	8000E-8900N	22	10
02	8950	36	10
03	9000	22	10
04	9250	28	10
05	9300	42	10
06	8000E-9350N	30	10

	SAMPLE No.	Cu	PPB Au
7	8000E-9400N	14	10
8	9550	14	10
9	9600	42	10
0	9650	12	10
1	9700	22	10
2	9750	36	10
3	9800	22	10
4	9900	42	10
5	9950	38	10
6	10000	30	10
7	10050	24	10
8	10100	36	10
9	10200	16	10
0	10250	22	10
1	10300	26	10
2	10350	24	10
3	10450	26	10
4	10500	28	10
5	10550	22	10
6	10600	26	10
7	10650	22	10
8	10700	18	10
9	10750	32	30
0	10800	40	10
1	10850	24	10
2	10900	34	10
3	10950	64	10
4	11000	70	10
5	11050	42	10
6	11100	38	10
7	11150	22	10
8	11200	66	10
9	11250	62	10
0	11300	96	10
1	11350	2	10
2	11400	42	10
3	11450	30	10
4	11500	96	10
5	11550	50	10
6	11600	44	10
7	11650	58	10
8	11700	64	10
9	11750	42	10
0	11800	22	10
1	11850	32	10
2	11950	48	10
3	8000E-12000N	32	10
4	8500E-8000N	30	10
5	8050	18	10
6	8100	36	10
7	8150	46	10
8	8200	16	10
9	8300	26	10
0	8350	18	10
1	8400	22	10
2	8500	34	10
3	8500E-8550N	44	10

r.	SAMPLE No.	PPB	
		Cu	Au
5	8500E-8750N	32	10
7	8800	30	10
3	8950	50	70
3	9000	62	10
0	9100	20	50
1	9150	40	10
2	9200	40	10
3	9250	58	10
4	9300	42	10
5	9350	46	10
5	9400	26	10
7	9600	30	10
8	9650	16	10
9	9700	26	10
0	9900	28	10
1	9950	26	10
2	10000	54	10
3	10050	76	10
4	10150	36	10
5	10250	22	10
5	10300	150	20
7	10350	130	10
8	10400	70	10
9	10450	38	10
0	10500	48	10
1	10550	72	10
2	10650	58	10
3	10750	42	10
4	10850	36	10
5	10900	50	10
6	10950	60	10
7	11100	34	10
8	11150	98	10
9	11200	220	10
0	11250	96	10
11	11300	80	10
12	11350	110	10
13	11400	38	10
14	11450	34	10
15	11500	44	10
16	11600	46	10
17	11650	160	10
18	11750	86	10
19	11800	28	10
20	11850	82	10
21	11900	46	10
22	8500E-12000N	38	10
23	9000E-7500N	22	10
24	7600	26	10
25	7650	54	10
26	7700	42	10
27	7800	20	10
28	7850	34	10
29	7900	32	10
70	8000	64	10
71	8150	68	10
72	9000E-8200N	22	10

T.	SAMPLE No.	Cu	PPB Au
3	9000E-8300N	72	10
4	8500	14	10
5	8550	22	10
6	8650	90	10
7	8750	24	10
8	8800	16	10
9	8850	90	10
10	8900	32	10
11	8950	42	10
12	9000	60	10
13	9100	46	10
14	9150	30	10
15	9200	34	10
16	9250	72	10
17	9300	48	10
18	9350	26	10
19	9400	62	10
20	9450	30	10
21	9500	24	10
22	9550	36	10
23	9600	16	10
24	9650	42	10
25	9700	34	10
26	9750	32	10
27	9800	30	10
28	9850	62	10
29	9000E-9900N	22	10
30	CHECK NL-6	46	-
31	9000E-9950N	26	40
32	10000	14	10
33	10050	24	10
34	10100	14	10
35	10150	32	10
36	10250	22	10
37	10300	16	10
38	10350	38	10
39	10400	32	10
40	10450	26	10
41	10500	20	10
42	10550	44	10
43	10600	44	10
44	10650	34	10
45	10700	32	10
46	10750	32	10
47	10800	32	10
48	10850	58	10
49	10900	22	10
50	11000	40	10
51	11050	34	10
52	11100	28	10
53	11150	16	10
54	11200	46	10
55	11250	32	10
56	11300	34	10
57	11350	80	10
58	11400	26	10
59	9000E-11600N	34	10

T.	SAMPLE No.	Cu	PPB Au
0	9000E-11650N	28	10
1	11850	18	10
2	11900	26	240
3	11950	120	10
4	9000E-12000N	120	10
5	9500E-7500N	38	10
6	7550	76	10
7	7600	32	60
8	7650	50	10
9	7700	24	10
0	7750	40	10
1	7850	34	10
2	7900	36	10
3	8000	26	10
4	8100	96	10
5	8150	16	10
6	8200	18	10
7	8350	30	10
8	8500	14	10
9	8650	74	10
2	8750	16	10
3	8800	38	10
4	8850	24	10
5	8900	32	10
6	8950	42	10
7	9000	32	10
8	9150	22	10
9	9250	22	10
10	9300	22	10
11	9350	38	20
12	9400	36	10
13	9450	34	10
14	9500	290	340
15	9800	46	60
16	9850	90	10
17	9900	40	10
18	9950	40	10
19	10000	40	10
20	10050	40	10
21	10200	22	10
22	10300	42	10
23	10500	28	10
24	10550	26	10
25	10600	40	10
26	10650	50	10
27	10700	30	10
28	10750	44	10
29	10800	32	10
30	10850	84	10
31	10900	42	10
32	10950	24	10
33	11000	44	10
34	11050	36	10
35	11150	48	10
36	11200	32	10
37	11250	24	10
38	9500E-11400N	56	10

T.	SAMPLE No.	Cu	PPB Au
9	9500E-11450N	54	10
0	11500	48	10
1	11550	28	10
2	11600	50	10
3	11650	60	10
4	11700	34	10
5	11750	50	10
6	11800	30	10
7	11850	28	10
8	11900	38	10
9	9500E-11950N	50	10
0	10000E-7550N	38	10
1	7600	32	10
2	7650	16	40
3	7700	30	10
4	7750	32	10
5	7800	160	10
6	7850	80	10
7	7900	40	10
8	7950	32	10
9	8000	56	10
0	8050	24	10
1	8100	84	10
2	8150	110	10
3	8200	36	10
4	8250	82	10
5	8300	48	10
6	8350	18	10
7	8400	30	10
8	8450	44	10
9	8500	40	10
0	8550	28	10
1	8600	30	10
2	8650	38	10
3	8700	52	10
4	8750	40	10
5	8800	30	10
6	8850	24	10
7	8900	24	10
8	8950	42	10
9	9000	50	10
0	9050	24	10
1	9100	40	10
2	9150	32	10
3	9200	46	10
4	9250	26	10
5	9300	60	10
6	9350	34	10
7	9400	30	10
8	9450	32	10
9	9500	26	10
0	9550	34	10
1	9600	46	10
2	9650	26	10
3	9700	22	10
4	9750	66	10
5	10000E-9800N	40	10

T.	SAMPLE No.	Cu	PPB Au
6	10000E-9850N	28	10
7	9900	20	10
8	9950	34	10
9	10000E-1000N	50	10
0	CHECK NL-6	48	-
1	10500E-7500N	82	10
2	7650	34	10
3	7700	36	10
4	7750	40	10
5	7900	28	10
6	7950	32	10
7	7850	54	10
8	8050	22	10
9	8100	28	10
0	8150	20	10
1	8250	10	10
2	8300	32	10
3	8350	24	10
4	8400	42	10
5	8650	48	10
6	8700	94	10
7	8750	28	10
8	8800	22	10
9	8850	26	10
0	8950	52	10
1	9000	60	10
2	9050	66	10
3	9150	190	10
4	9200	38	10
5	9250	28	10
6	9300	94	10
7	9350	42	10
8	9400	12	10
9	9450	32	10
0	9500	10	10
1	9550	10	10
2	9600	30	10
3	9700	64	10
4	9750	130	10
5	9800	82	10
6	9850	50	10
7	9950	60	10
8	10000	110	10
9	10050	40	10
0	10100	30	10
1	10150	28	10
2	10200	20	10
3	10250	30	10
4	10350	66	10
5	10400	38	10
6	10450	40	10
7	10500	56	10
8	10550	48	10
9	10500E-10600N	32	10
0	CHECK NL-6	46	-
1	10500E-10700N	40	10
2	10500E-10750N	170	10

I.	SAMPLE No.	Cu	PPB	
			Au	
		28	10	
3	10500E-10800N	54	10	
4	10500E-10840N	54	10	
5	11000E-10000N	100	10	
5	10050	110	10	
7	10100	50	10	
8	10200	60	10	
9	10250	50	10	
0	10300	28	10	
1	10350	32	10	
2	10400	82	10	
3	10450	42	10	
4	10500	110	10	
5	10550	42	10	
6	10600	24	10	
7	10650	52	10	
8	10700	36	10	
9	10750	84	10	
0	10800	88	10	
1	10850	22	10	
2	10900	240	10	
3	10950	50	10	
4	11000E-11000N	56	10	
5	35321	50	10	
6	31159			



NORANDA VANCOUVER LABORATORY

\*\*\*\*\*

PROPERTY/LOCATION: STUART Au (MARIE)

CODE : 8810-054

Object No. : 283  
 Material : 331. SOILS  
 marks :

Sheet: 1 of 6  
 Geol.: G.M.

Date rec'd: OCT 24  
 Date compl: NOV 1

Values in PPM, except where noted.

SAMPLE No.	Cu	PPB Au
B300E-8900N	42	10
8925	34	10
8950	24	10
8975	32	10
9000	18	10
9025	90	10
9050	20	10
9075	86	10
9100	46	10
9125	35	10
9150	22	10
9175	22	10
9200	36	10
9225	50	10
9250	32	10
9275	48	10
B300E-9300N	44	10
B400E-8800N	30	10
8875	16	10
8900	28	10
8925	30	10
8950	18	10
9000	8	10
9025	10	10
9050	20	10
9075	14	10
9100	38	10
9125	20	10
9150	80	10
9175	86	10
9200	58	10
9250	60	10
B400E-9300N	80	10
B500E-8800N	32	10
8825	16	10
8850	8	10
8875	56	10
8900	12	10
8925	20	10
8950	88	10
9000	96	10
9025	30	10
9075	82	10
9125	46	10
9150	68	10
9175	36	10
9200	22	10
B600E-9225N	40	10

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Copy to Sorc

SAMPLE No.	Cu	PPB Au
8600E-9250N	46	10
8600E-9275N	26	10
8700E-8900N	48	10
8825	86	10
8850	32	10
8875	30	10
8900	36	10
8925	56	10
8950	60	10
9025	38	10
9075	40	10
9125	48	10
9150	22	10
8700E-9175N	40	10
8800E-11600N	30	10
11650	28	10
11675	32	10
11700	48	10
11725	72	10
11750	48	10
11775	56	10
11800	34	10
11825	28	10
11850	56	10
11875	52	10
11900	42	10
11925	84	10
11950	66	10
11975	36	10
8800E-12000N	110	10
8900E-11600N	20	10
11625	16	40
11675	20	10
11700	130	10
11725	88	10
11750	64	10
11775	280	10
11800	38	10
11825	40	10
11850	52	<del>20</del>
11875	72	10
11900	94	10
11925	48	10
11950	82	10
11975	40	10
8900E-12000N	28	30
9100E-11600N	30	10
11625	94	10
11650	26	10
11675	28	10
CHECK NL-6	48	—
11700	74	10
11725	54	10
11750	94	10
11775	84	<del>20</del>
11800	30	10
9100E-11825N	36	10

SAMPLE No.	Cu	PPB Au
9100E-11850N	40	50
11875	32	10
11900	100	10
11925	76	10
11950	98	10
11975	40	10
9100E-12000N	38	10
9200E-11600N	48	10
11625	82	10
11650	48	10
11675	80	10
11700	62	10
11725	32	10
11750	30	10
11775	68	10
11800	22	10
11825	44	10
11850	32	10
11875	76	10
11900	30	10
11925	68	10
9200E-11950	240	10
9300E-9125N	48	10
9175	34	10
9200	48	10
9225	26	10
9250	34	10
9275	50	10
9325	28	10
9350	34	10
9375	58	10
9400	34	10
9500	30	30
9525	32	10
9550	32	10
9575	20	10
9600	130	10
9625	210	10
9650	190	10
9675	32	10
9300E-9700N	48	10
9400E-9100N	36	10
9175	18	10
9200	86	10
9250	26	10
9350	22	10
9375	20	10
9400	18	10
9425	22	10
9450	32	10
9475	34	10
9500	72	10
9525	34	10
9525	38	10
9550	26	10
9575	36	10
9400E-7500N	36	10

SAMPLE No.	Cu	PPB Au
9400E-7525N	110	10
7550	20	10
7575	24	10
7625	30	10
7650	18	10
7675	18	10
7700	18	10
7725	24	10
7750	28	10
7775	10	10
7800	26	10
7825	16	10
7850	8	10
7875	20	10
9400E-7900N	30	10
9600E-7500N	38	10
7525	56	10
7550	100	10
7575	28	10
7600	40	10
7625	44	10
7650	28	10
7700	32	10
7725	28	10
7750	58	10
7775	26	10
7800	82	10
7825	42	10
7850	50	10
7875	22	10
9600E-7900N	28	10
9700E-9625N	56	10
9650	34	10
9675	48	10
9700E-9700N	50	10
9800E-7525N	44	10
7550	18	10
7575	32	10
7600	26	10
7625	<del>240</del>	10
7675	42	10
7700	28	10
7725	26	10
7750	28	10
7775	24	10
7800	38	10
7825	30	10
7875	58	10
9800E-7900N	34	10
9900E-7550N	20	10
7600	20	10
7625	22	10
7650	<del>120</del>	10
7675	22	10
7700	32	10
7725	30	10
9900E-7750N	22	10

SAMPLE No.	Cu	PPB	
		Au	
9900E-7775N	32	10	
7800	52	10	
7875	22	10	
9900E-7900N	18	10	
10100E-7625N	32	10	
7650	22	10	
7675	26	30	
7725	36	10	
7775	52	10	
7800	92	10	
7825	78	10	
7850	62	10	
7875	84	10	
10100E-7900N	100	10	
5975E-12075N	96	10	
12100	54	10	
5975E-12125N	84	10	
6000E-12100N	170	10	
6025E-12075N	40	10	
12100	28	10	
6025E-12125N	36	10	
6475E-11475N	22	10	
11500	18	10	
11525	40	10	
6475E-11875N	150	10	
6500E-11525N	84	10	
6500E-11825N	52	10	
CHECK NL-6	48	--	
6525E-11475N	14	10	
11500	22	10	
11825	52	10	
6525E-11850N	36	10	
7475E-11325N	44	10	
11350	40	10	
7475E-11375N	42	10	
7500E-11325N	74	10	
7500E-11375N	40	10	
7525E-11325N	64	10	
11350	26	10	
7525E-11375N	70	30	
7975E-10725N	36	10	
10750	20	10	
7975E-10775N	44	10	
8000E-10725N	26	10	
8000E-10775N	20	10	
8025E-10725N	64	10	
10750	<del>140</del>	10	
8025E-10775N	92	10	
8475E-10275N	22	10	
10300	44	10	
8475E-10325N	10	10	
8500E-10275N	58	10	
8500E-10325N	60	10	
8525E-10275N	16	10	
10300	30	10	
8525E-10325N	40	10	
8700E-9200N	28	10	

SAMPLE No.	Cu	PPB Au
8700E-9225N	38	10
9250	48	10
9275	48	10
8700E-9300N	32	10
8975E-9325N	42	10
9350	16	10
8975E-9975N	90	10
9000E-9925N	34	10
9000E-9975N	28	10
9025E-9925N	26	10
9350	160	10
9025E-9975N	24	10
9600E-9100N	46	10
9125	48	10
9150	24	10
9175	28	10
9225	50	10
9250	34	10
9275	52	10
9600E-9300N	62	10
9350	56	10
9375	74	10
9400	52	10
9425	32	10
9450	76	10
9550	48	10
9575	60	10
9600	52	10
9625	36	10
9650	40	10
9675	100	10
9600E-9700N	50	10
9700E-7525N	78	70
7550	46	10
7575	50	10
7600	24	10
7625	40	10
7650	48	10
7675	20	10
7700	30	10
7725	26	10
7750	56	10
7775	40	10
7800	28	10
7825	38	10
7875	94	10
7900	34	10
9125	80	10
9700E-9150N	48	10
9175	54	10
9200	40	10
9225	150	10
9250	38	10
9275	22	10
9300	46	10
9700E-9325N	40	10
8500E-11475N	20	10





LEGEND

ROCK TYPES

- V<sub>1</sub> Basalt: Calcareous green, slightly amygdaloid
- V<sub>2</sub> Andesite: light grey in colour
- P<sub>2</sub> Diorite: possibly related to Jean Marie Stock

SYMBOLS

- Lake
- Floor sample location
- Rock sample location
- Outcrop large, small
- Clear-cut
- Logging roads
- Swamp area
- Talus slope
- Geological contact inferred

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

18,393

3	4
2	1

SCALE 1:5,000

REVISED	STUART LAKE GOLD	
	MARIE CLAIMS	
	GEOLOGY MAP	
PROJ. No. 283	SURVEY BY: T.C. J.M., K.C.	DATE: June, 1959
N.T.S. 93 N/2	DRAWN BY: S.K.B.	SCALE: 1:5,000
DWG. No.	NORANDA EXPLORATION	
FIG. 3	OFFICE: PRINCE GEORGE, B.C.	

MARIE 3      MARIE 4  
MARIE 1      MARIE 2

B./L. 10,000 N. Az. 090°

9,500N.

9,000N.

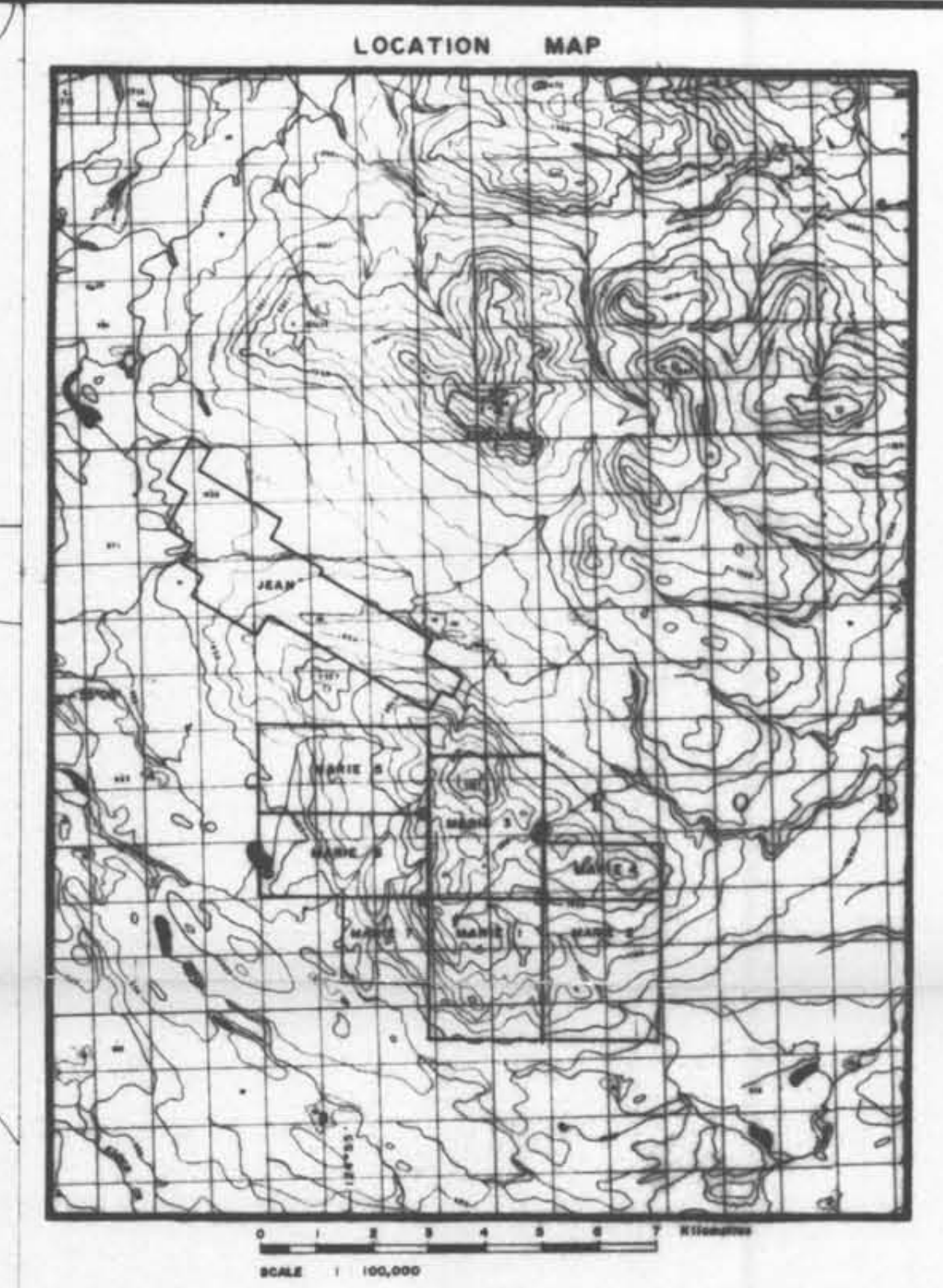
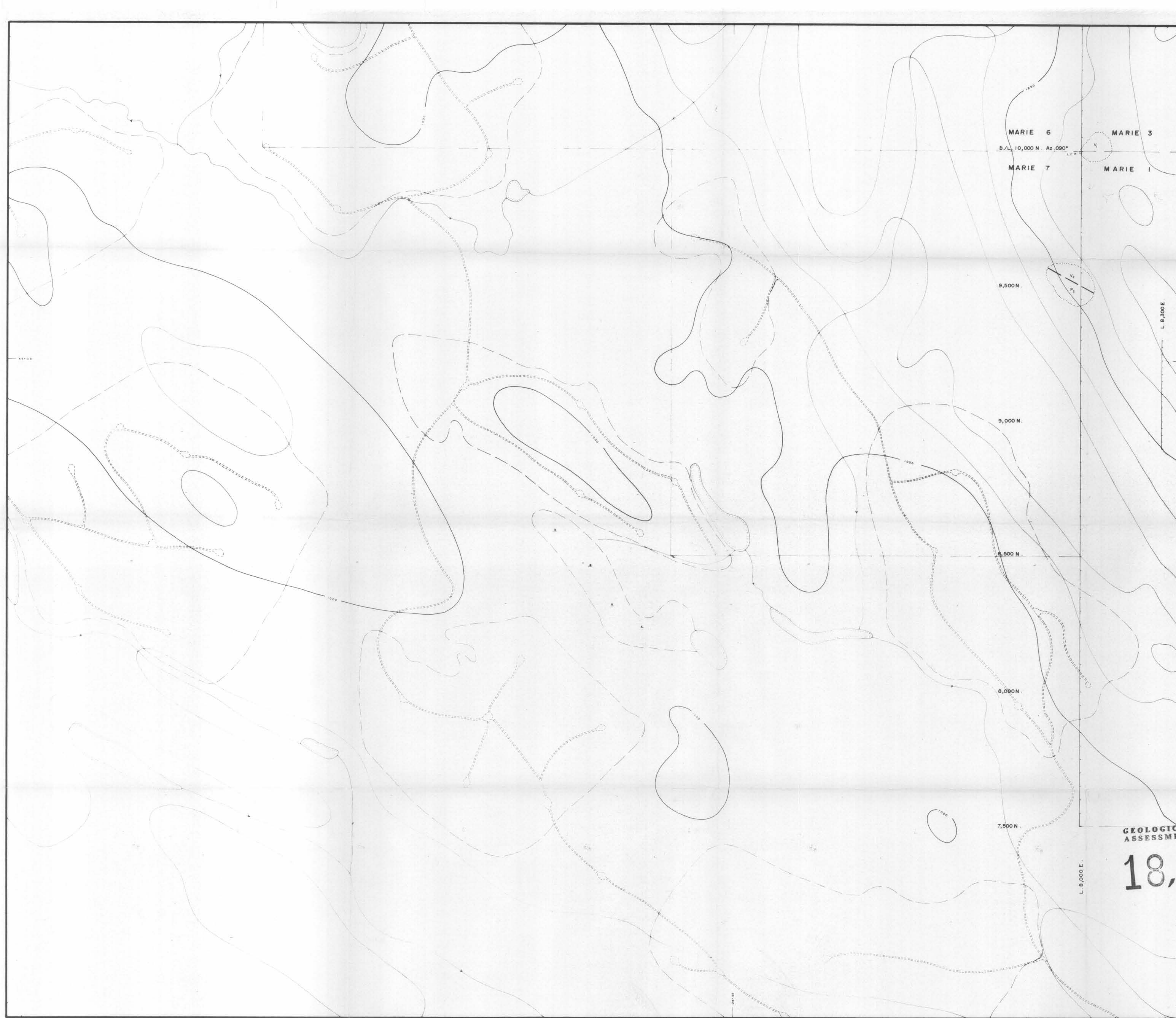
8,500N.

8,000N.

7,500N.

L. 8,400E    L. 8,500E    L. 8,600E    L. 8,700E    L. 8,800E  
 L. 8,900E    L. 9,000E    L. 9,100E    L. 9,200E    L. 9,300E  
 L. 9,400E    L. 9,500E    L. 9,600E    L. 9,700E    L. 9,800E  
 L. 9,900E    L. 10,000E    L. 10,100E    L. 10,200E    L. 10,300E  
 L. 10,400E    L. 10,500E    L. 10,600E    L. 10,700E    L. 10,800E  
 L. 10,900E    L. 11,000E





**LEGEND**

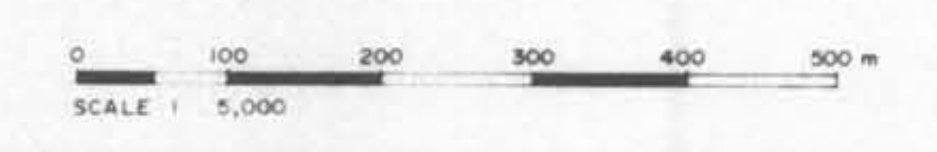
- ROCK TYPES**
- V<sub>1</sub> Basalt: Calcareous green, slightly amygdal
  - V<sub>2</sub> Andesite: light grey in colour
  - P<sub>1</sub> Diorite: possibly related to Jean Marie Stock
- SYMBOLS**
- Lake
  - Floor sample location
  - Rock sample location
  - Outcrop large, small
  - Clear-cut
  - Logging roads
  - Swamp area
  - Talus slope
  - Geological contact inferred

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

18,393

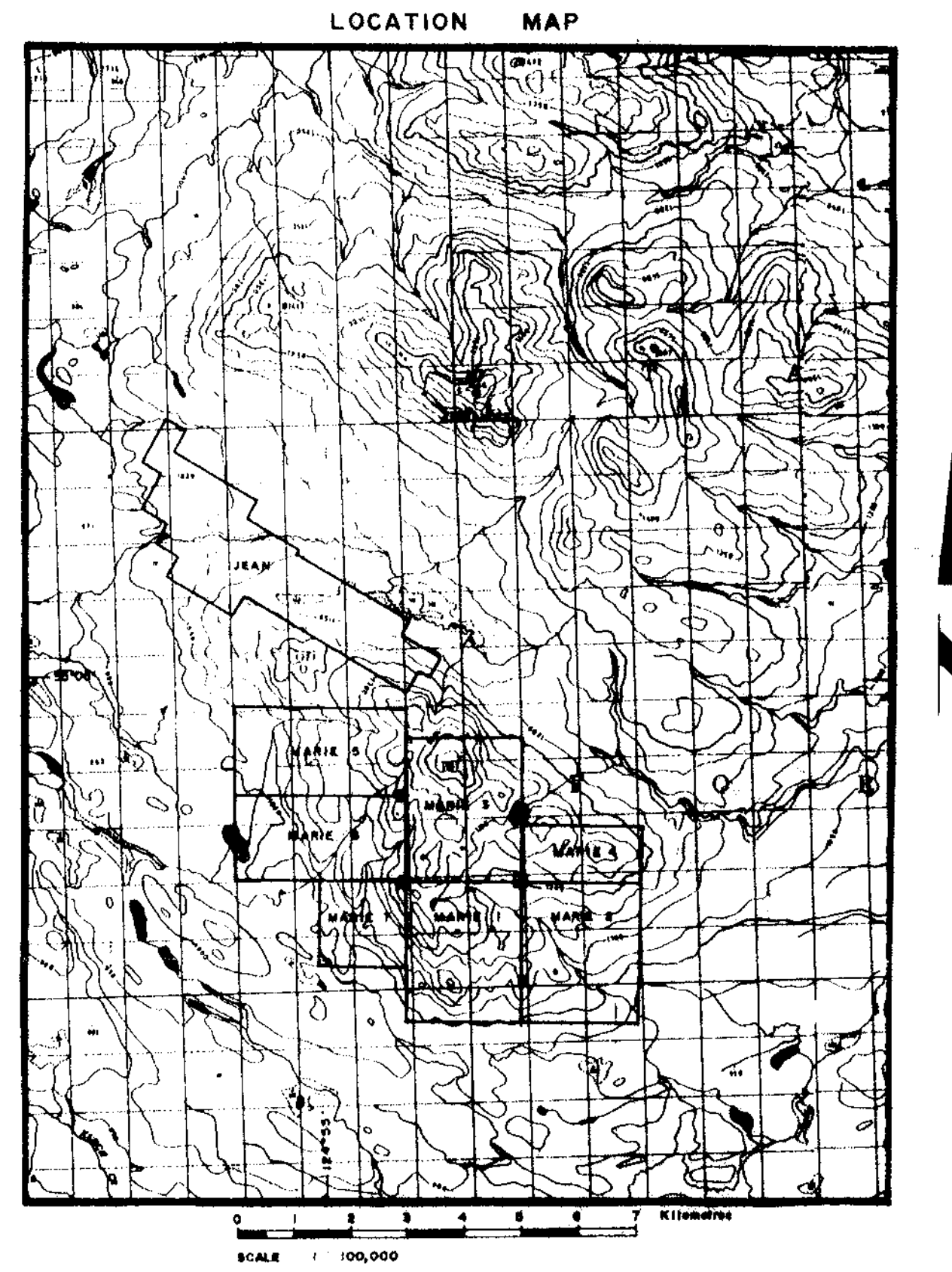
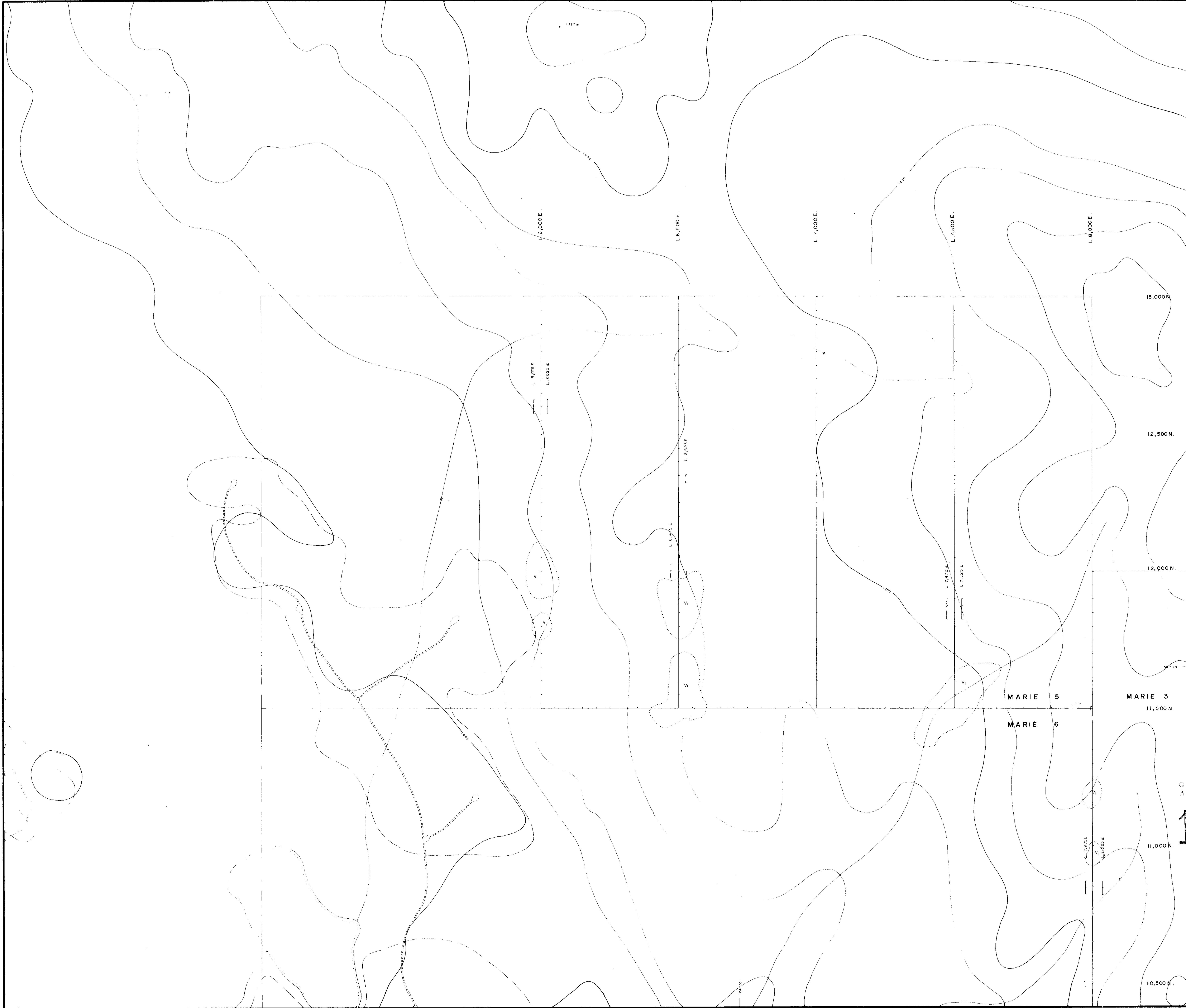
Map Sheet Index

3	4
2	1



REVISED	<b>STUART LAKE GOLD MARIE CLAIMS GEOLOGY MAP</b>	
PROJ: No. 283	SURVEY BY: T.C., J.M., K.C.	DATE: June, 1988
NTS: 95 N/2	DRAWN BY: S.K.B.	SCALE: 1:5,000
DWG No.	<b>NORANDA EXPLORATION</b>	
FIG. 4	OFFICE: PRINCE GEORGE, B.C.	





**LEGEND**

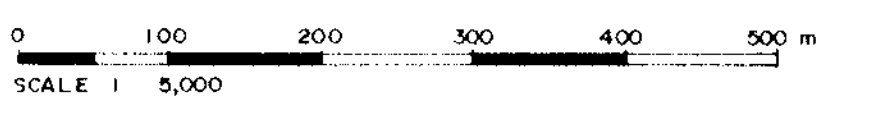
- ROCK TYPES**
- V<sub>1</sub> Basalt: Calcareous green, slightly amygdaloidal
  - V<sub>2</sub> Andesite: light grey in colour
  - P<sub>2</sub> Diorite: possibly related to Jean Marie Stock

- SYMBOLS**
- Lake
  - ⊙ Floor sample location
  - ⊗ Rock sample location
  - ⊗ Outcrop large, small
  - Clear-cut
  - Logging roads
  - Swamp area
  - Talus slope
  - Geological contact inferred

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

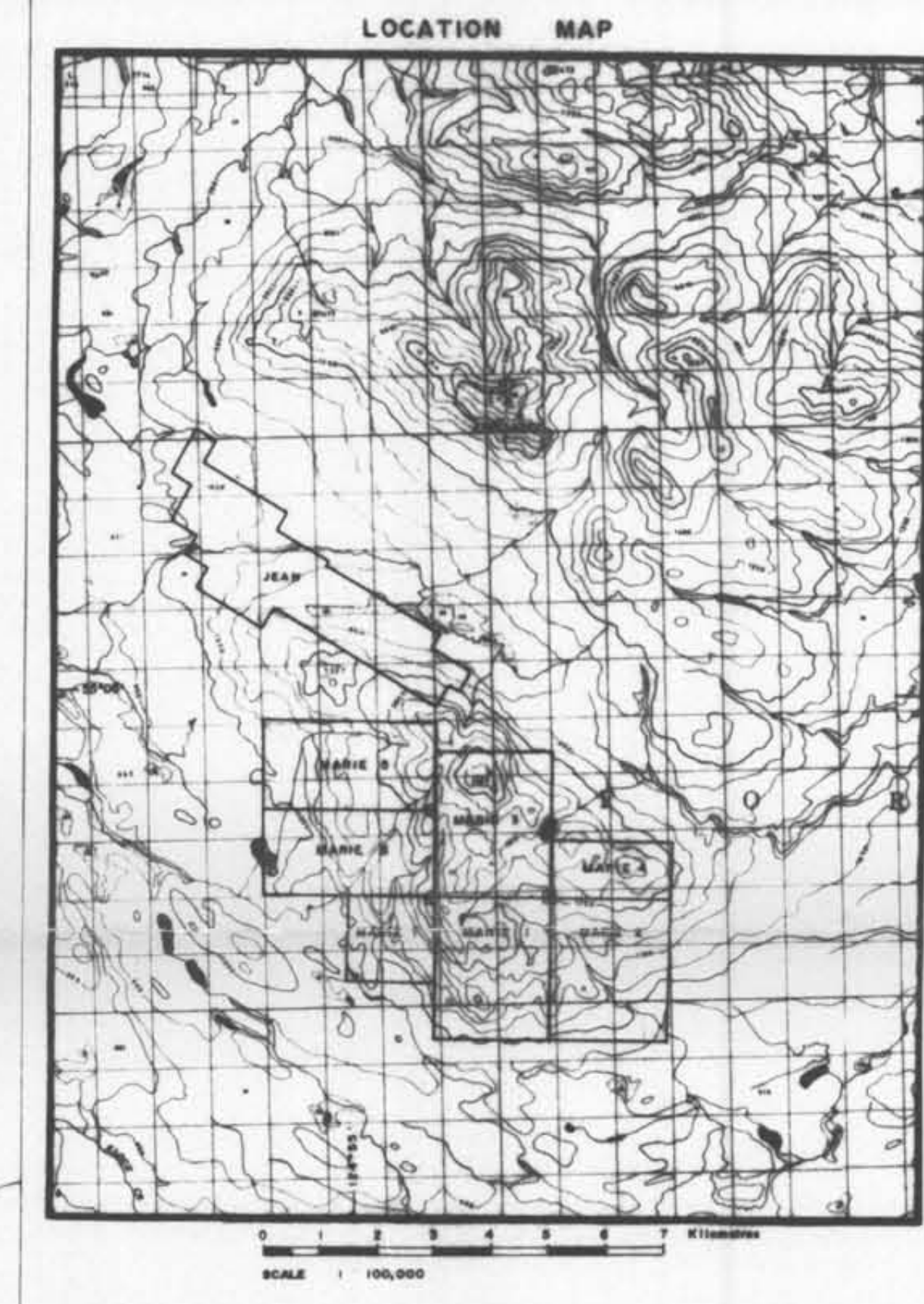
**18,393**

3	4
2	1



REVISED	<b>STUART LAKE GOLD</b>	
	MARIE CLAIMS	
	GEOLOGY MAP	
PROJ. No. 283	SURVEY BY: T.C., J.M., K.G.	DATE: June 1988
N.T.S. 93 N/2	DRAWN BY: S.K.R.	SCALE: 1:50,000
DWG. No.	<b>NORANDA EXPLORATION</b>	
FIG. 5	OFFICE: PRINCE GEORGE, B.C.	





LEGEND

- ROCK TYPES**
- V<sub>1</sub> Basalt: Collocous green, slightly amygdaloidal
  - V<sub>2</sub> Andesite: light grey in colour
  - P<sub>1</sub> Diorite: possibly related to Jean Marie Stock
- SYMBOLS**
- Lake
  - Float sample location
  - ⊗ Rock sample location
  - , x Outcrop large, small
  - Clear-cut
  - Logging roads
  - Swamp area
  - Talus slope
  - Geological contact inferred



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

18,393

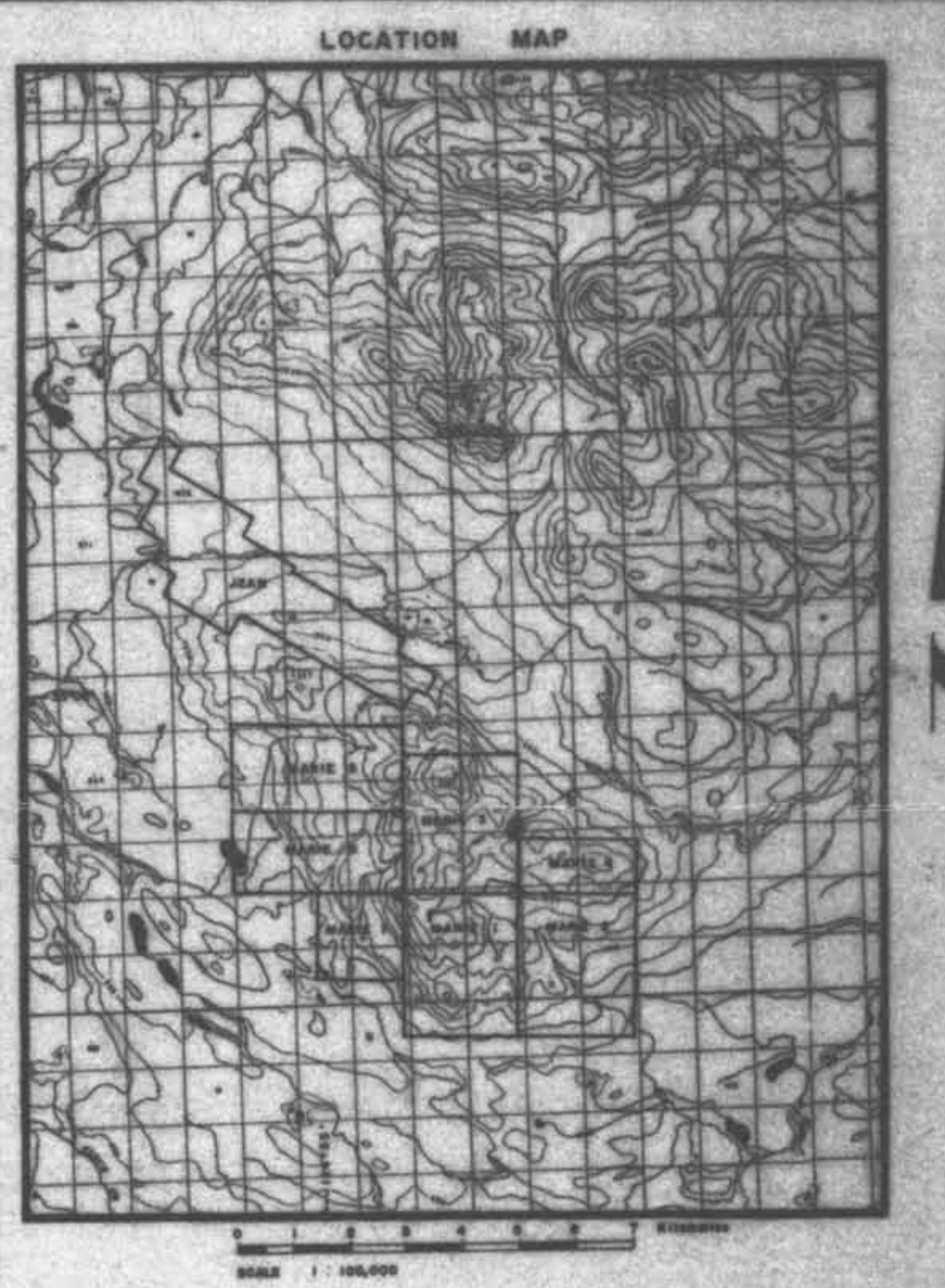
Map Sheet Index

3	4
2	1

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

REVISED	<b>STUART LAKE GOLD</b>	
	MARIE CLAIMS	
	GEOLOGY MAP	
PROJ. No. 283	SURVEY BY: T. C., J. M., K. C.	DATE: June, 1988
NTS: 93 N/2	DRAWN BY: S. X. B.	SCALE: 1:5,000
DWG. No.	<b>NORANDA EXPLORATION</b>	
FIG. 6	OFFICE: PRINCE GEORGE, B.C.	





**LEGEND**

Soil Geochem Survey Contour / Outcrop

L. 8,400 E. L. 8,500 E. L. 8,600 E. L. 8,700 E. L. 9,000 E. L. 9,300 E. L. 9,400 E. L. 9,500 E. L. 9,600 E. L. 9,700 E. L. 9,800 E. L. 9,900 E. L. 10,000 E. L. 10,100 E. L. 10,500 E.

GEOLOGICAL BRANCH ASSESSMENT REPORT

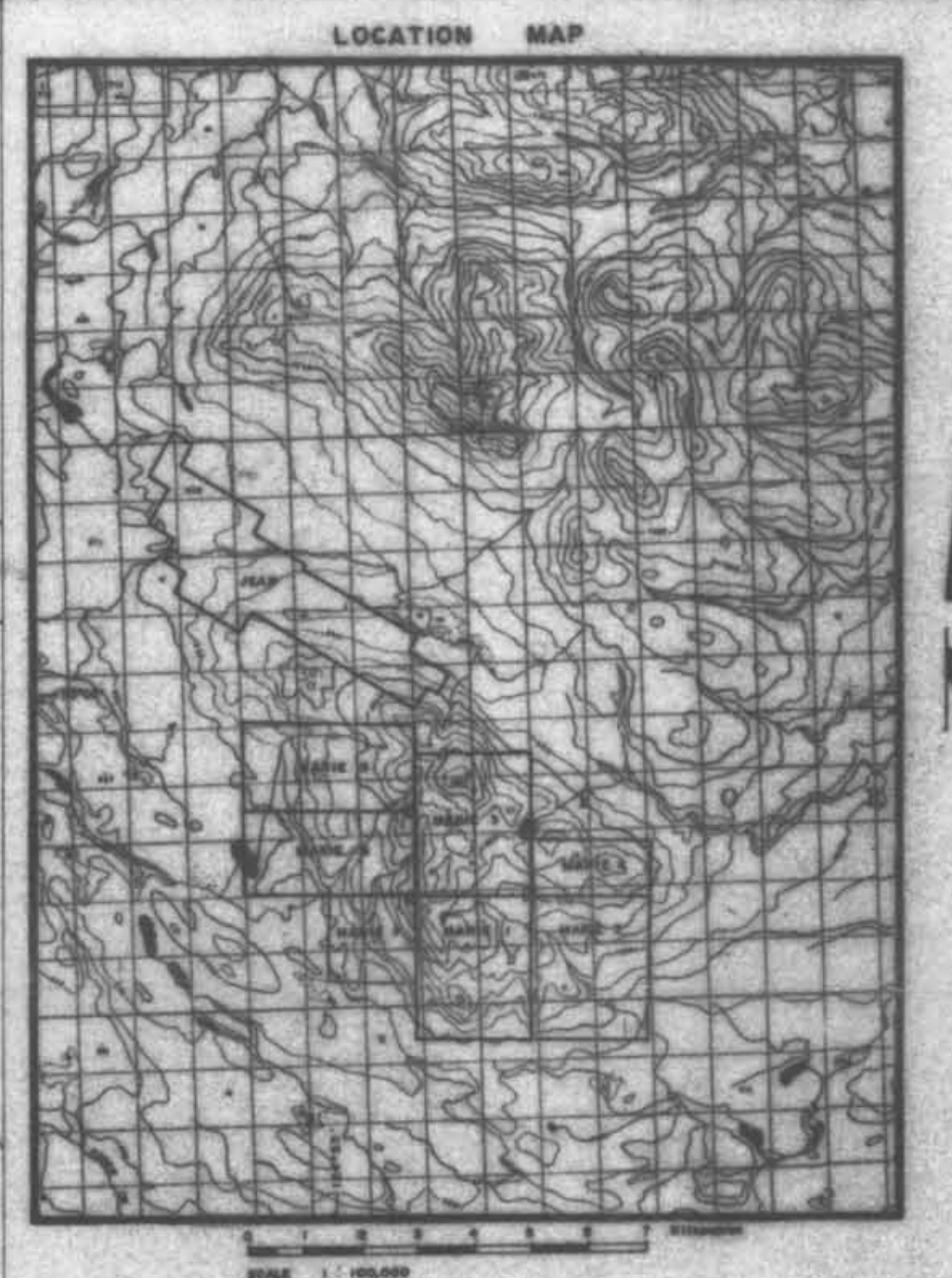
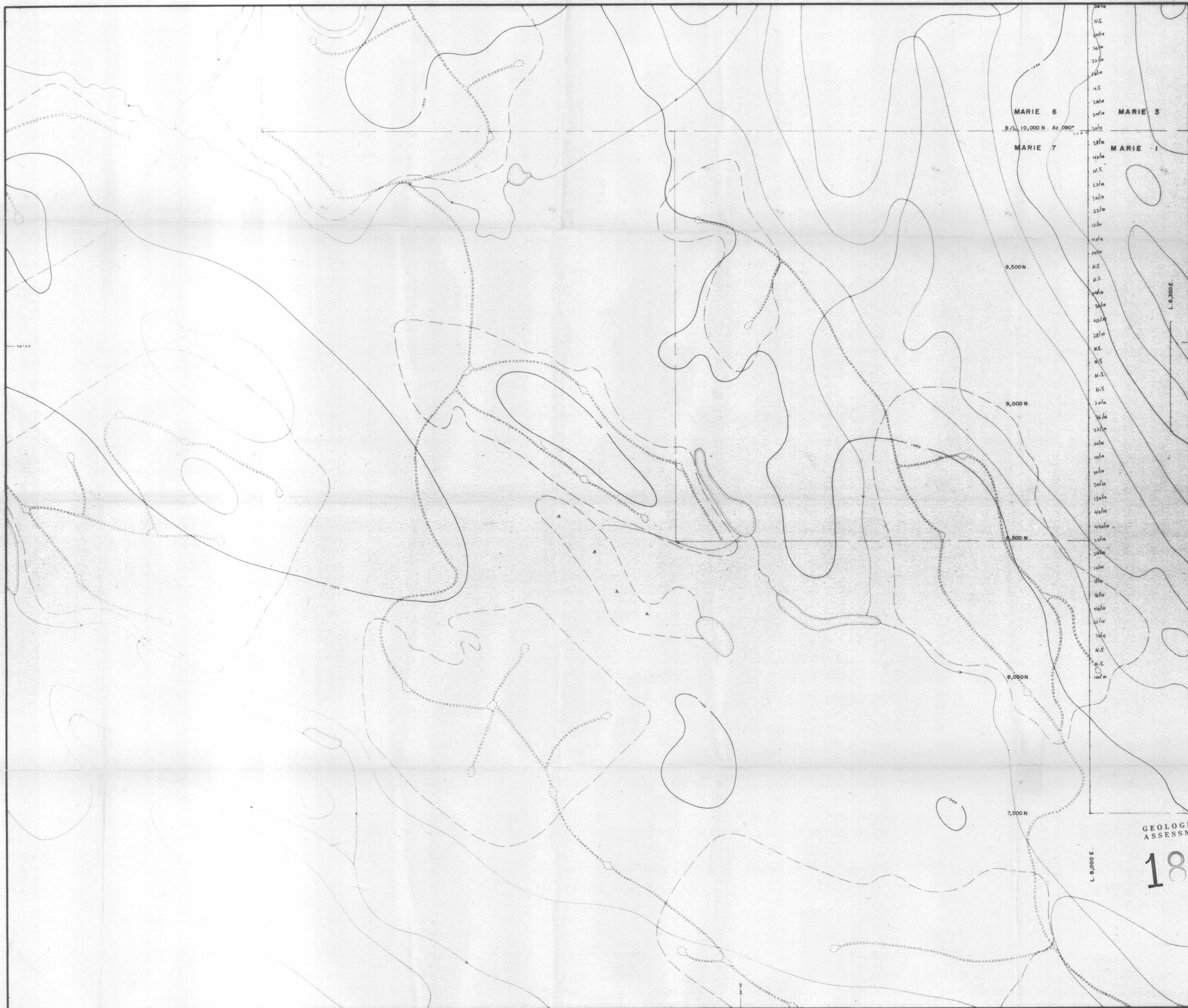
**18,393**

3	4
2	1

SCALE 1:5,000

REVISED	<b>STUART LAKE GOLD</b>	
	MARIE CLAIMS	
	SOIL GEOCHEM SURVEY	
	Cu (ppm) / Au (ppb)	
PROJ. No. 283	SURVEY BY: T.C., J.M., K.C.	DATE: June, 1988
N.T.S. 93 N/2	DRAWN BY: S.K.B.	SCALE: 1:5,000
DWG. No.	<b>NORANDA EXPLORATION</b>	
FIG. 7	OFFICE: PRINCE GEORGE, B.C.	





**L E G E N D**

Soil Geochem Survey Cu(ppm) / Au(ppb)

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

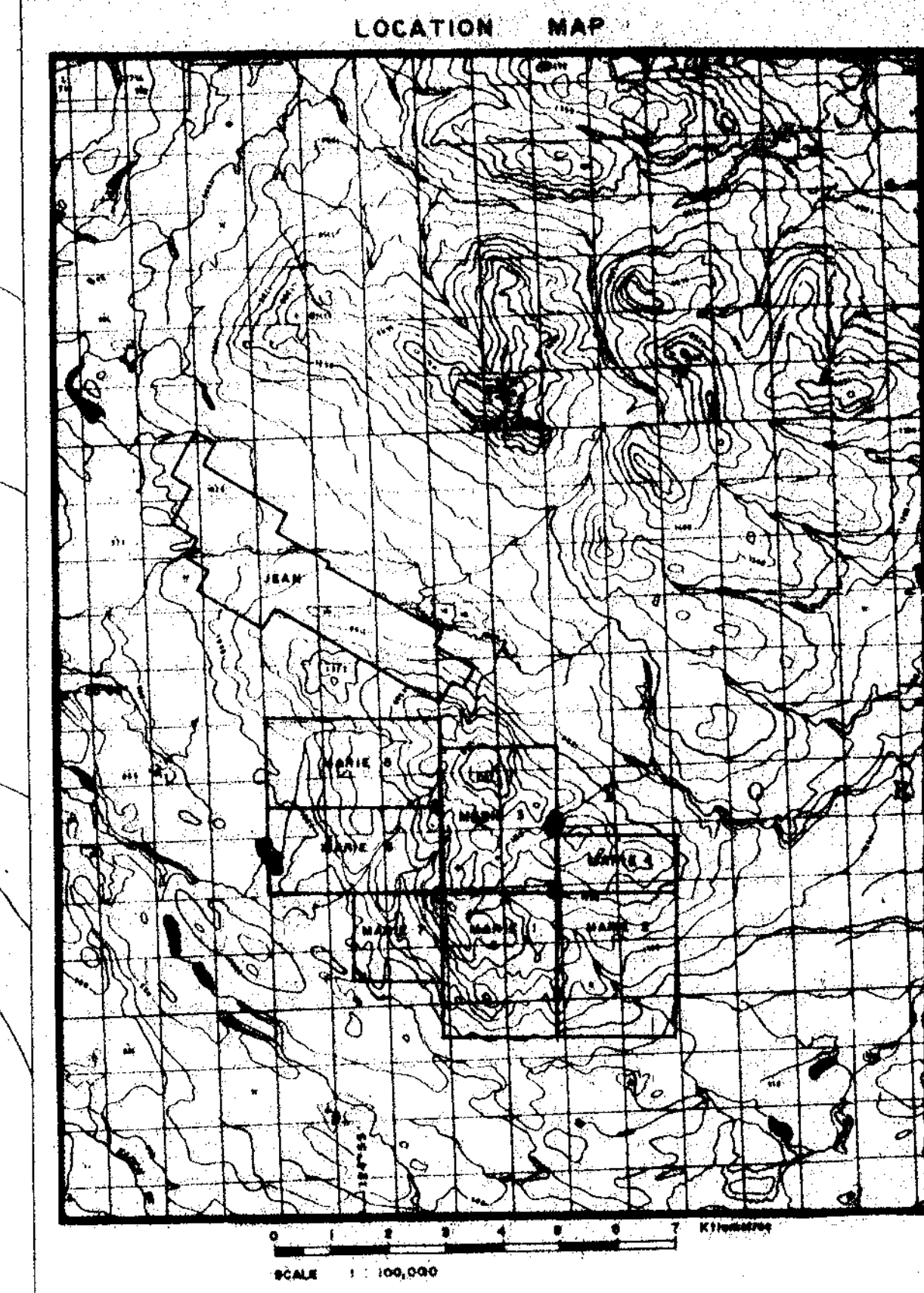
**18,393**

3	4
2	1

SCALE 1 : 5,000

REVISED	<b>STUART LAKE GOLD</b>	
	MARIE CLAIMS	
	SOIL GEOCHEM SURVEY	
	Cu(ppm) / Au(ppb)	
PROJ. No. 283	SURVEY BY: T.C. J.M. K.C.	DATE: JUN. 1989
N.T.S. 23.8 / 2	DRAWN BY: S.S.B.	SCALE: 1:5,000
DWG. No.	<b>NORANDA EXPLORATION</b>	
FIG. 8	OFFICE: PRINCE GEORGE, B.C.	

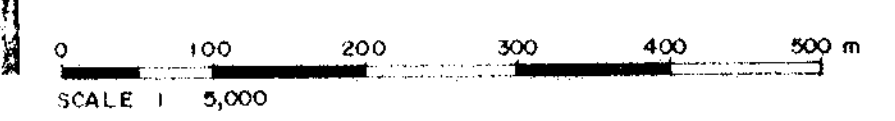




**LEGEND**

76/10 Soil Geochem Survey (Cu ppm) / Au (ppb)

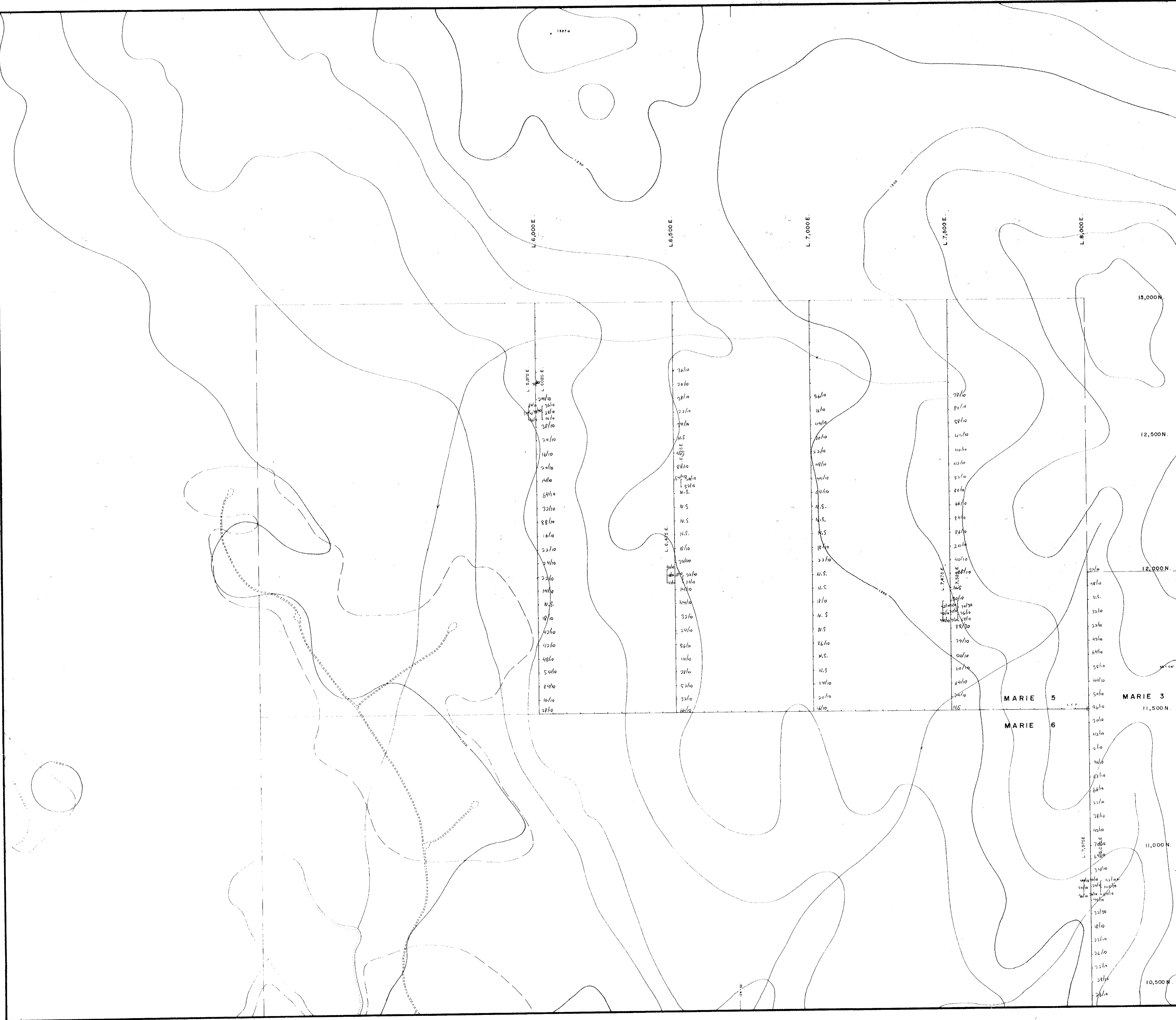
Map Sheet Index	
3	4
2	1



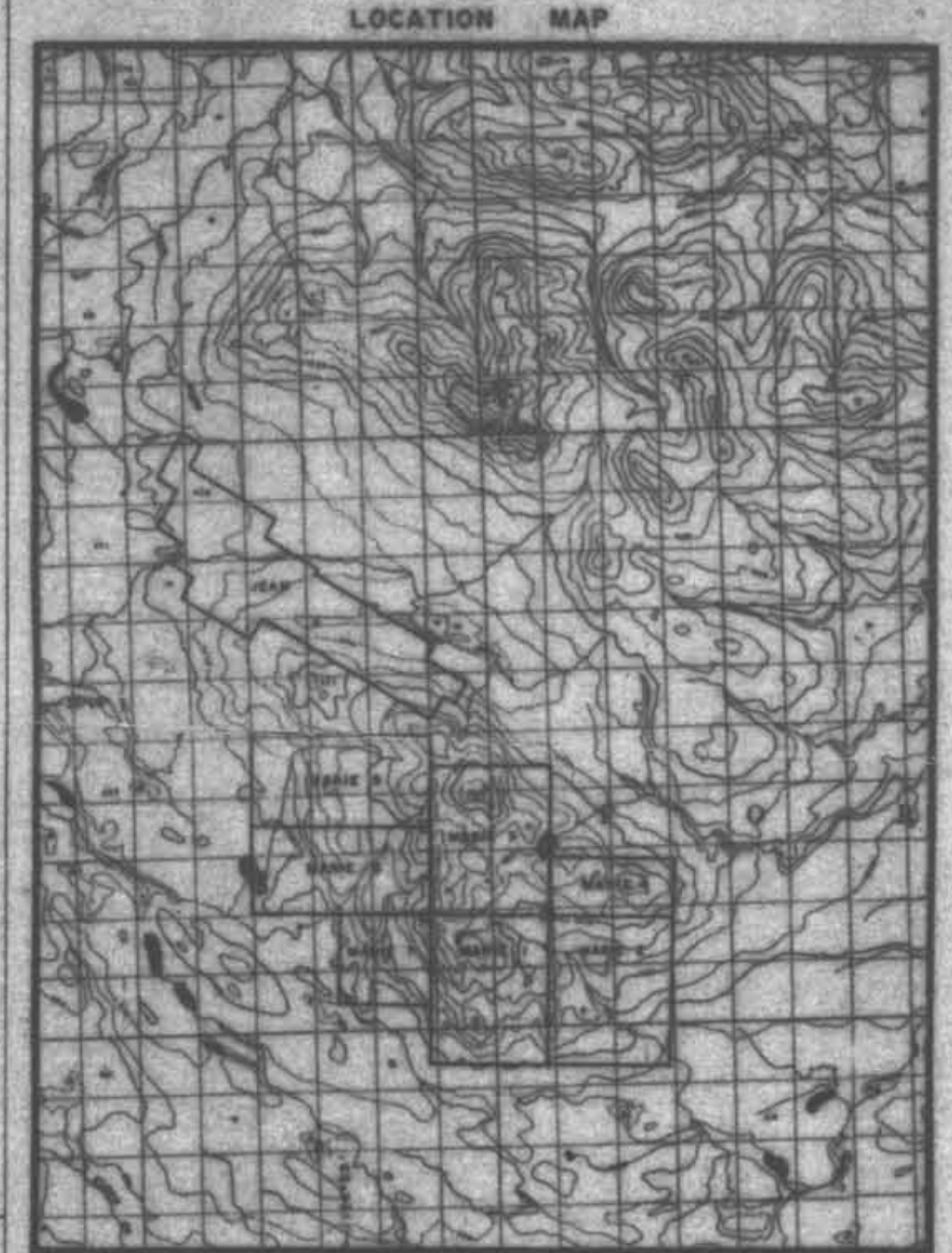
GEOLOGICAL BRANCH ASSESSMENT REPORT

18,393

REVISED	<b>STUART LAKE GOLD</b>	
	MARIE CLAIMS	
	SOIL GEOCHEM SURVEY	
	Cu (ppm) / Au (ppb)	
PROJ. No. 243	SURVEY BY: T.C. J.M., K.C.	DATE: June, 1989
N.T.S. 33 N/7	DRAWN BY: S.K.B.	SCALE: 1:5,000
DWG. No.	<b>NORANDA EXPLORATION</b>	
FIG. 9	OFFICE: PRINCE GEORGE, B.C.	







**LEGEND**

Soil Geochem Survey Cu(ppm) / Au(ppb)

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**18,393**

3	4
2	1

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

REVISED	<b>STUART LAKE GOLD</b>	
	<b>MARIE CLAIMS</b>	
	<b>SOIL GEOCHEM SURVEY</b>	
	Cu (ppm) / Au (ppb)	
PROJ. No. 285	SURVEY BY: T.C., J.M., K.C.	DATE: June, 1988
N.T.S. 92 N/2	DRAWN BY: S.K.B.	SCALE: 1:5,000
DWG. No.	<b>NORANDA EXPLORATION</b>	
FIG. 10	OFFICE: PRINCE GEORGE, B.C.	

