

REPORT ON A GEOCHEMICAL SURVEY  
(With Emphasis on Rock Geochemistry).

on the  
May # 1 & 2 Mineral Claims

Merritt Area

NICOLA MINING DIVISION

by

Murray Morrison, B.Sc.

Claims: May #1 & 2 (24 units)  
Location: The May #1 & 2 mineral claims  
lie 29 km due east of Merritt,  
B.C.  
Lat. 50° 07'; Long. 120° 23'.  
N.T.S. 92-I-1  
Owner: Murray Morrison  
Operator: Murray Morrison  
Date Started: September 9, 1982  
Date Completed: September 13, 1982

**GEOLOGICAL BRANCH**  
Kelowna, B.C. **ASSESSMENT REPORT** May 1, 1983

11,202

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SUMMARY

The May #1 & 2 mineral claims, comprising 24 units, are located on the western slope of Mount Hamilton, 29 km due east of Merritt, B.C. They were staked by the writer in 1981 and 1982 respectively to cover large zones of carbonate altered Nicola volcanic rocks found during routine prospecting.

In September, 1981 the writer collected several rock samples from the May #1 mineral claim to test geochemically. The samples were found to have low levels of gold and silver, but slightly elevated levels of arsenic, antimony and mercury. In September, 1982 selected rock samples were collected while prospecting carbonate altered zones on the May #2 claim, and rock and soil samples were obtained from a grid laid out over the main carbonate altered zone on the May #1 claim. In total, 31 rock samples and 8 soil samples were collected and submitted for tests and 31 elements were analyzed.

Results of the 1982 sampling show a barium geochem anomaly centred over the main carbonate altered zone on the May #1 claim. The barium anomaly is fringed by subtle chromium, nickel and mercury anomalies. The anomalies on the May #1 claim gain significance from the fact that one sample from the May #2 claim contained anomalous gold along with anomalous values of barium, chromium and nickel.

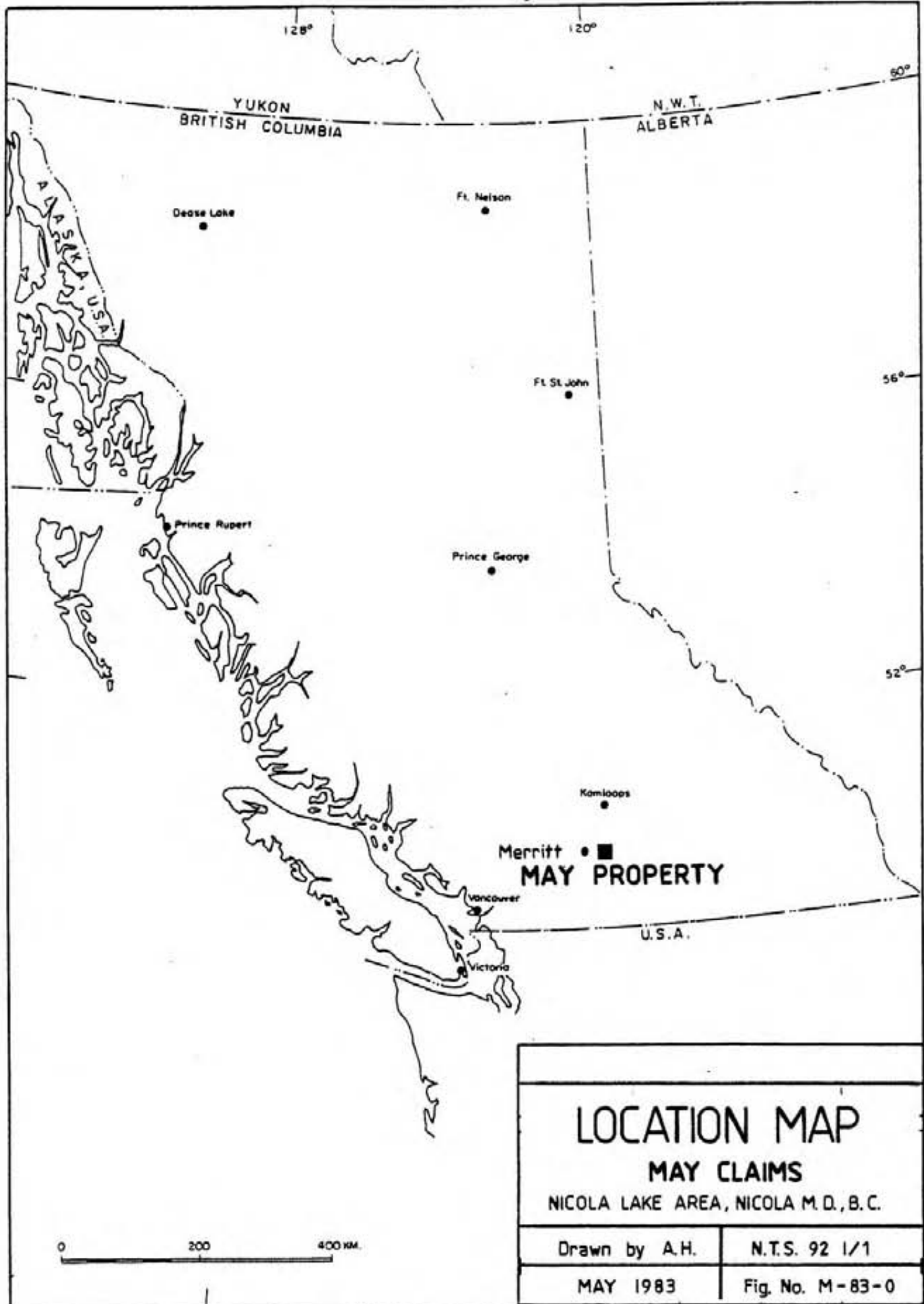
Further surface geochem sampling is recommended in the area of the anomalous gold sample found on the May #2 claim. Percussion drilling is then recommended for the main carbonate zone on the May #1 claim where it is thought that an economic gold-silver horizon may lie beneath the barium horizon. This barium, gold-silver zoning is a feature of classical epithermal systems in other parts of the world.

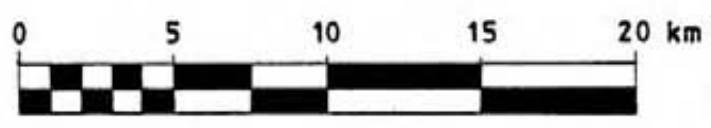
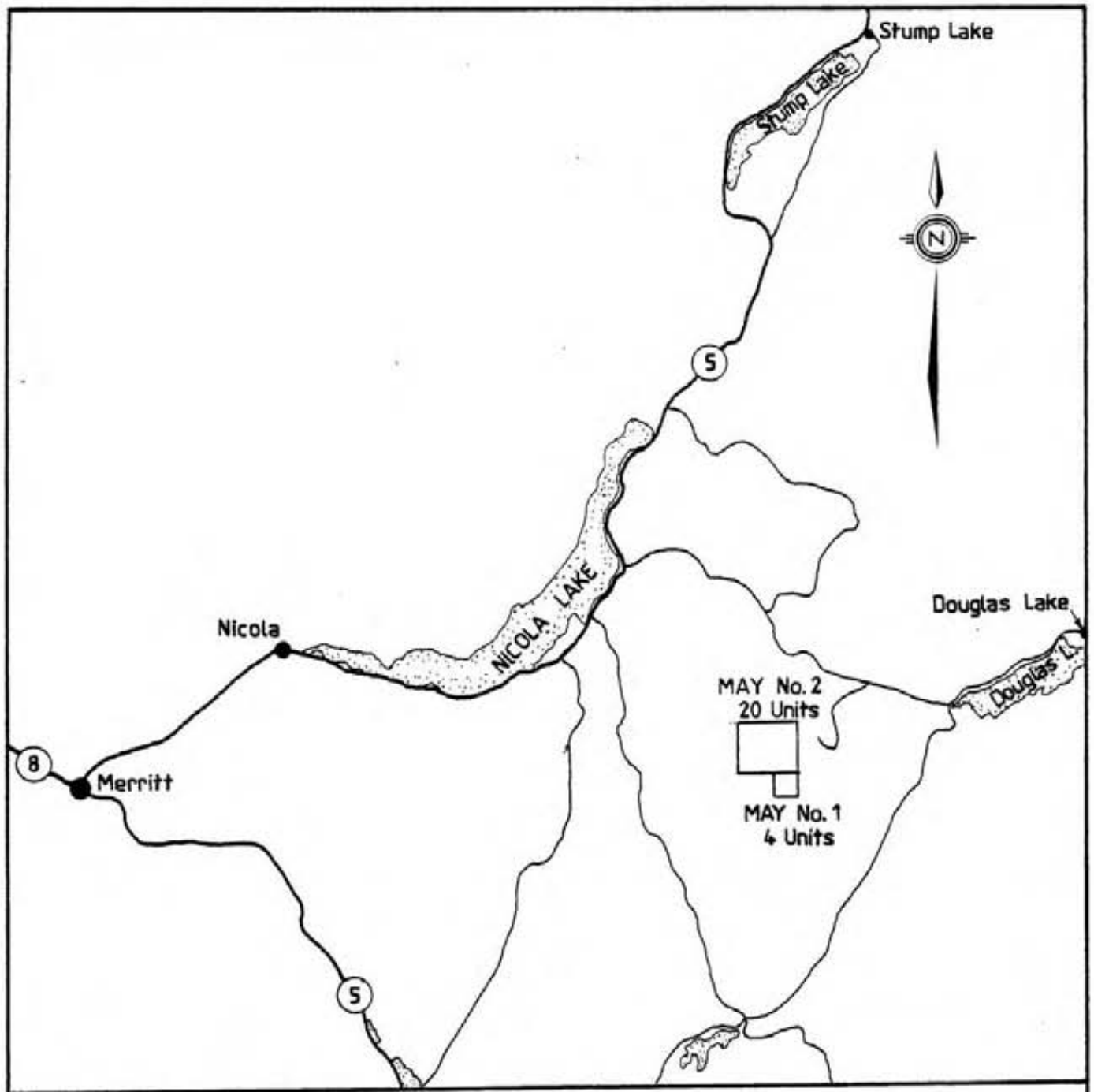
## INTRODUCTION

The May #1 & 2 mineral claims, comprising 24 units, are situated 29 km due east of Merritt, B.C. on the western slope of Mount Hamilton. The May #1 claim was staked on May 14, 1981 to cover a large zone of carbonate altered Nicola volcanics that was discovered during routine prospecting. Several smaller, linear, carbonate altered zones of Nicola volcanic rock were found to the northwest of the May #1 claim, and these were covered by the May #2 claim staked May 8 - 9, 1982. The carbonate alteration is recognized as an indication of hydrothermal activity, and it is hoped that gold or silver in economic concentrations might have been deposited during the hydrothermal event.

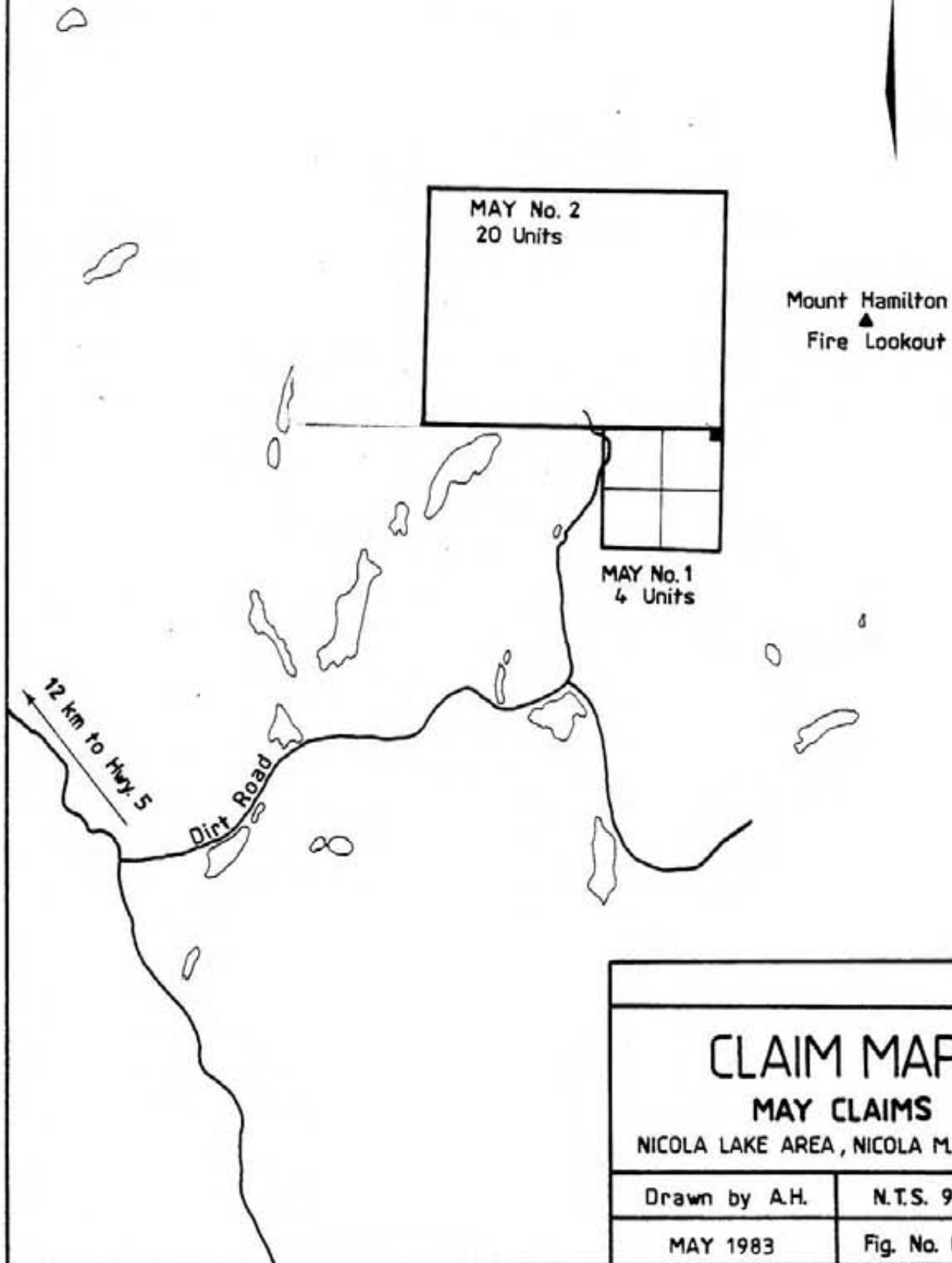
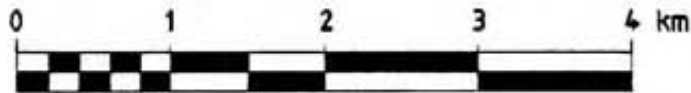
In September of 1981 the writer prospected the main carbonate zone of the May #1 claim, and collected several rocks for geochemical analysis. Although gold and silver values were negligible in the carbonate altered rocks, antimony, arsenic, and mercury showed slightly elevated levels. Recommendations following the 1981 sampling were that further sampling be done on a grid system over the main carbonate zone on the May #1 claim.

During September 9 - 13, 1982, the recommended sampling was carried out on the May #1 claim. Prospecting and sampling of carbonate zones on the new May #2 claim was also carried out. In all, 31 rock samples and 8 soil samples were collected for geochem testing, and a total of 31 elements were analyzed. The results of the 1982 sampling program are discussed within the text of this report, while sample sites and the values of selected elements are plotted on maps accompanying this report.





<b>LOCATION MAP</b>	
<b>MAY CLAIMS</b>	
NICOLA LAKE AREA, NICOLA M.D., B.C.	
Drawn by A.H.	N.T.S. 92 1/1
July 1981	Fig. No. M - 81 - 1



# CLAIM MAP

## MAY CLAIMS

NICOLA LAKE AREA, NICOLA M.D., B.C.

Drawn by A.H.

N.T.S. 92 1/1

MAY 1983

Fig. No. M-81-2

LOCATION, ACCESS, TOPOGRAPHY AND VEGETATION

The May #1 & 2 claims are located 2 km west of the Mount Hamilton Fire Lookout, or 29 km due east of Merritt, B.C., Lat. 50° 07'; Long. 120° 23'; N.T.S. 92-I-1 (see figures M-81-1 & 2). The property is one hour's driving distance (38.3 km) from Merritt, and is reached via Highway #5 and the Paradise Lake Road. At a point 12 km along the Paradise Lake Road, a dirt branch road is taken to the east which runs 5.8 km to the claims.

Much of the May #2 claim covers rolling grassland, typical of the Douglas Lake country. The topography rises towards Mount Hamilton on the eastern side of the property from the grasslands at 1100 metres to the fir forests at 1400 metres. Much of the May #1 claim is forested. Although most of the May #2 claim is readily accessible by vehicle across open country, ranchers and forestry officials insist that vehicles travel the established dirt roads. Access to the May #1 claim is provided via a service road following a high voltage powerline crossing the claim.

CLAIM STATUS

<u>Claim</u>	<u>Units</u>	<u>Date Staked</u>	<u>Date Recorded</u>	<u>Record No</u>	<u>Expiry Date</u>
May #1	4	May 14/81	May 15/81	1074	May 15/84
May #2	20	May 8+9/82	May 14/82	1245	May 14/84

The two claims are located within the Nicola Mining Division and they are 100% owned by M. Morrison of Kelowna, B.C. All of the May #1 claim, and all but the northernmost 100 metres of the May #2 claim are located within District Lot 671, a Government Commonage Reserve. The reserve is for pasturage, and the mineral rights are not affected by the reserve. The northernmost 100 metres of the May #2 claim falls on land owned by the Douglas Lake Cattle Company and it is probable that the ranch owns the base metal rights of this ground.



## HISTORY

Ref: Geology, Exploration and Mining in British Columbia, 1969. B.C. Dept. of Mines, pp. 275-276

The May #1 & 2 claims cover a portion of ground once covered by the Rancher, Pepsi, Out and Raise claims owned by Noranda Exploration Company Ltd. of Vancouver. In 1969 Noranda geologically mapped the property, carried out 22 km of induced polarization and ground magnetometer surveys, collected and analyzed 300 soil samples, and drilled 6 percussion drill holes for a total of 550 metres. In subsequent years Noranda allowed their claims to lapse.

## REGIONAL GEOLOGY

G.S.C. Map 886A by Cockfield shows a 12 km belt of Upper Triassic Nicola rocks running 26 km south from Stump Lake to Mount Hamilton. The Nicola rocks within this belt are largely greenstones derived from andesitic and dacitic flow rocks and tuffs. These Nicola rocks are intruded 5 km southeast of Mount Hamilton by the Pennask Batholith believed to be of Jurassic age. The May claims cover a number of zones of highly carbonate altered Nicola volcanic rocks lying on the western slope of Mount Hamilton.

## 1982 Geochemical Program

A 650 metre baseline established in 1981 was used to measure out grid lines at 50 metre intervals over the main carbonate zone on the May #1 claim. Stations were then marked at 50 metre centres along the grid lines. A total of 1500 metres of grid were established using a Silva Ranger compass and a Topolite belt chain.

A mattock was used to dig 30 to 60 cm to bedrock at each station over the grid area to obtain 3 kg of rock sample. Where bedrock could not be reached a soil sample of the B-horizon was taken. In total, 24 rock and 8 soil samples were collected on the May #1 claim.

1982 Geochemical Program (continued)

Work on the May #2 claim involved locating and prospecting several scattered zones of carbonate altered rocks. Selected rock samples, weighing 3 kg each, were chipped from outcrop at the seven sites shown on map M-83-6 accompanying this report. Sample sites were positioned using a government 1:50,000 scale topographic map as a base map and an altimeter for obtaining elevations.

All 39 samples collected from both the May 1 & 2 claims were shipped to Acme Analytical Laboratories Ltd. in Vancouver for analyses. The samples were crushed to -80 mesh, and in each case a 0.500 gram sample was digested with Aqua Regia at 90°C for 1 hour. The samples were diluted to 10 ml with water and analyzed by the inductively coupled argon plasma (ICP) method. In total, 30 elements were quantitatively determined and these are listed in Appendix "A". In the case of mercury, analysis was by flameless atomic absorption of a 0.500 gram sample, and the results are given in parts per billion (ppb).

Selected elements have been plotted on maps accompanying this report. The three maps covering the May #1 carbonate zone are as follows: Map M-83-3 shows the distribution of barium, chromium and mercury; Map M-83-4 shows calcium and magnesium in percentages, and silver in parts per million; and Map M-83-5 shows antimony, arsenic, strontium, and copper in parts per million.

The sample sites and the values of selected elements (gold, silver, arsenic, antimony, barium, nickel, chromium and copper) for the May #2 claim are shown on Map M-83-6.

DISCUSSION OF THE 1982 GEOCHEMICAL PROGRAM

All of the rock samples collected from the May #1 carbonate altered zone in 1982 were very similar in appearance and apparent composition. Most were pink to buff coloured and were moderately to well carbonate altered, fractured, weathered, and limonite stained. Ankerite veinlets (0.1 - 2 mm) were present in most samples and commonly equalled 1 to 2% of the rock. Quartz veinlets and pyrite were present in a few samples. Most samples appeared to be an altered medium grained tuff that probably had the composition of an andesite. However, sample R8207 appeared to be a very fine grained rhyolite tuff.

The rock geochem analyses of 31 elements for the 24 rock and 8 soil samples taken from the May #1 claim carbonate zone have been reviewed in detail, and the values of 10 elements have been selected for plotting on maps accompanying this report. Gold was not identified at the parts per million levels, and therefore, was not plotted on any map. Silver, although not present in anomalous amounts, has been plotted on Map M-83-4 at any rate. The calcium and magnesium contents of the samples have also been plotted on Map M-83-4, because these values give a good indication of the degree of ankerite veining and alteration within the carbonate zone.

Of the "epithermal indicator elements" (plus chromium) plotted on maps M-83-3 and M-83-5, it can be seen that barium, mercury, chromium, copper, and strontium show anomalous patterns over the carbonate zone. Barium forms a good anomaly of greater than 400 ppm centred over the carbonate zone. A copper anomaly of greater than 100 ppm overlies the barium anomaly, and has a slight extension to the northeast, while a negative strontium anomaly, of less than 60 ppm, overlies the barium anomaly and has a slight offset to the southwest. A chromium anomaly (greater than 10 ppm) partially covers and partially fringes the barium anomaly. (It is also noted that the element nickel behaves much the same as chromium

...cont.

DISCUSSION OF THE 1982 GECHEMICAL PROGRAM - Cont.

over the carbonate zone and it has not been plotted on the map.) Mercury also fringes the barium zone, but the values are somewhat erratic. The mercury data from 1981 shows an increase in mercury away from the barium anomaly towards the southwest side of the carbonate zone, but the 1982 mercury data shows less of an offset anomaly. It is possible that different lab procedures have resulted in the discrepancy of mercury data collected over the two years.

Several linear zones of carbonate altered Nicola volcanic rocks are located on the May #2 claim. Two zones near the centre of the claim measure 100 to 200 metres long by 20 to 30 metres wide. The altered rocks range from medium grained andesite tuffs to bedded, fine grained dacitic or rhyolite tuffs. Samples were selected from some of the most altered rock, where ankerite veining equalled as much as 20 to 80% of the sample. Quartz veining equalled 1 to 2% in the same samples.

Of the 7 samples collected from the May #2 claim the three westernmost (R8227, R8228 and R8231) are the most interesting. Anomalous gold (2 ppm) was identified in sample R 8228 along with anomalous chromium (223 ppm), nickel (183 ppm) and barium (1371 ppm). Mariposite (1%) was identified with this sample. Sample R8227 contained anomalous barium (2177 ppm), and sample R8231 contained barium (518 ppm), silver (3.4 ppm), and copper (6611 ppm). Minerals identified in sample R8231 included chalcocite, malachite, and azurite.

The occurrence of anomalous gold with high barium, chromium, and nickel in sample R8228 on the May #2 claim has great significance in view of the fact that barium, chromium and nickel all occur in anomalous concentrations over the centre of the main carbonate zone on the May #1 claim.

CONCLUSIONS AND RECOMMENDATIONS

The carbonate altered zone centred on the May #1 claim geologically and geochemically appears to represent the upper levels of an epithermal system. The barium anomaly near the core of the carbonate altered zone, fringed by a mercury halo forms a zonation pattern that is a common feature of epithermal systems. The barium zone on the May #1 claim is also fringed by a chromium-nickel halo. Although the chromium-nickel halo is not classical for an epithermal system it appears to have significance on the May property in that the best gold value obtained on the property (sample R8228 on the May #2 claim) was associated with anomalous chromium and nickel.

Further rock geochem sampling should be carried out in the vicinity of samples R8227 and R8228 on the May #2 claim to confirm the presence of gold, and its association with chromium and nickel.

It is recommended that the vertical zoning hypothesis for geochemistry be tested on the May #1 carbonate zone by the drilling of at least two percussion drill holes at grid stations 20N 6W and 20N 7W. These holes should be drilled to 120 metres and the chips from 3 metre intervals should be analyzed for gold, silver, barium, chromium, nickel, mercury, antimony, arsenic, strontium and copper. The economic elements sought would be gold and silver, and it is recommended that fire assays and atomic absorption be used for the gold analyses.

It is hoped that economic concentrations of gold and silver will be encountered below the barium geochem horizon on the May #1 claim.

May 1, 1983

  
Murray Morrison, B.Sc.

REFERENCES:

Cockfield, W.E. Geology & Mineral Deposits of Nicola Map - Area, British Columbia, G.S.C. Memoir 249, 1948.

Morrison, M. Prospecting Report on the May #1 Mineral Claim, Merritt Area, B.C. Assessment Report with the B.C. Department of Mines, 1982.

Polikarpochkin, V.V. and Kitaev, N.A. Endogenic Halos of Epithermal Gold-Bearing Deposits, Geochemical Exploration, C.I.M. Special Vol. 11, pp. 381-383, 1971.

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS, VANCOUVER B.C.

PH:253-3158

TELEX:04-53124

### ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO<sub>3</sub> TO H<sub>2</sub>O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.  
THIS LEACH IS PARTIAL FOR: Ca, P, Mg, Al, Fe, Li, Na, K, W, Ba, Sr, Cr AND B. Au DETECTION 3 ppb.  
HGX ANALYSIS BY FLAMELESS AA FROM .500 GRAM SAMPLE. SAMPLE TYPE - FI-ROCK F<sub>2</sub>-SH

DATE RECEIVED APRIL 7 1983

DATE REPORTS MAILED Apr 15/83

ASSAYER AL 244

DEAN TOYE, CERTIFIED B.C. ASSAYER

SAMPLE #	LACANA FILE # 83-0357																												Submitted by M Morrison		PAGE # 1	
	Mo	Cu	Pb	Zn	Ag	Hg	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W		Hg*
ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	I	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	I	I	ppm	ppm	I	ppm	I	ppm	I	I	I	I	ppm	ppb
RB201	1	75	6	81	.2	9	13	1422	4.22	17	4	ND	2	99	1	2	2	119	5.16	.13	4	6	1.77	718	.01	6	.78	.02	.06	2	40	
RB202	1	151	7	72	.4	6	13	1192	4.30	44	4	ND	2	99	1	3	2	121	5.96	.14	5	4	1.35	348	.01	5	.73	.01	.04	2	200	
RB203	1	204	6	57	.2	6	12	1051	3.45	13	4	ND	2	57	1	2	2	109	1.64	.14	4	5	.23	290	.01	10	.84	.01	.09	2	80	
RB204	1	97	5	77	.1	5	14	1444	4.87	18	7	ND	2	63	2	2	2	161	4.26	.12	4	3	.73	420	.01	13	.76	.01	.13	2	10	
RB205	1	115	5	80	.3	9	15	1160	4.52	66	9	ND	2	60	1	2	2	123	2.56	.16	4	8	.53	181	.01	12	.77	.01	.07	2	280	
RB206	1	98	6	66	.1	12	17	942	4.81	13	8	ND	2	72	1	2	3	135	2.71	.17	7	20	.44	64	.01	9	.88	.02	.10	2	5	
RB207	1	43	5	75	.3	8	10	873	3.84	25	2	ND	2	148	1	3	2	133	6.84	.04	2	10	2.40	711	.01	3	.40	.01	.03	2	30	
F9208	1	94	6	67	.3	19	14	509	3.29	92	2	ND	2	40	1	7	2	84	1.14	.04	3	17	.22	795	.01	9	.59	.01	.09	2	40	
RB209	1	148	5	100	.1	11	17	1024	5.91	22	4	ND	2	49	1	2	2	163	.30	.10	3	11	.09	516	.01	8	.89	.01	.09	2	10	
RB210	1	78	3	94	.1	13	22	1442	7.04	25	4	ND	2	34	1	5	2	220	.75	.12	3	16	.12	290	.01	10	.89	.01	.07	2	20	
RB211	1	49	7	81	.3	5	13	1367	4.22	17	7	ND	2	169	2	2	2	105	8.31	.07	2	2	2.71	422	.01	9	.60	.01	.08	2	20	
RB212	1	178	6	99	.1	8	17	1347	5.67	15	8	ND	2	46	1	2	2	152	2.05	.18	5	3	.28	430	.01	10	1.00	.01	.09	2	70	
RB213	1	128	7	65	.2	10	13	890	3.82	51	4	ND	2	59	1	3	2	112	1.76	.08	3	13	.41	1135	.01	7	.64	.01	.06	2	440	
RB214	1	107	5	96	.1	18	24	1012	6.44	41	4	ND	2	47	1	2	2	200	.28	.10	3	31	.11	262	.01	5	.84	.01	.10	2	60	
RB215	1	114	7	73	.3	6	15	1002	4.57	46	5	ND	2	71	1	2	2	137	4.24	.17	8	4	.20	30	.01	6	.78	.02	.04	2	30	
RB216	1	93	6	58	.1	9	13	1079	4.00	13	4	ND	2	29	1	2	2	144	.40	.16	8	12	.09	120	.01	11	.60	.03	.07	2	50	
RB217	1	71	7	75	.2	5	12	1227	3.81	8	4	ND	2	93	1	2	2	100	5.77	.10	3	5	1.68	675	.01	9	.63	.01	.05	2	200	
RB218	1	138	2	72	.1	9	16	1195	4.43	33	2	ND	2	39	1	2	2	125	.77	.15	5	6	.23	313	.01	9	.84	.01	.08	2	80	
RB219	1	55	4	65	.2	9	15	1011	4.44	8	7	ND	2	70	1	2	2	147	6.66	.09	4	10	.87	219	.01	5	.66	.01	.05	2	30	
RB220	1	158	3	66	.1	6	13	1313	4.20	16	2	ND	2	78	1	2	2	127	1.40	.10	3	5	.34	1485	.01	9	.78	.01	.07	2	340	
RB221	1	72	2	68	.2	7	15	1119	5.16	21	6	ND	2	45	1	2	2	168	4.16	.12	4	11	.21	62	.01	9	.81	.01	.05	2	40	
RB222	1	92	5	71	.2	11	18	1231	5.36	44	4	ND	2	79	2	2	2	161	6.49	.10	2	23	1.17	617	.01	8	.79	.01	.09	2	80	
RB223	1	59	5	55	.2	5	11	777	3.41	20	7	ND	2	57	1	2	2	107	2.41	.07	2	9	.70	293	.01	8	.63	.01	.05	2	230	
RB224	1	130	7	86	.2	5	15	1560	4.63	16	3	ND	2	86	1	2	3	111	7.66	.10	4	3	1.10	463	.01	7	.67	.01	.14	2	170	
RB225	1	51	7	49	.3	58	14	750	3.69	16	5	ND	2	145	1	2	2	102	6.88	.05	3	90	2.74	331	.01	3	.67	.02	.06	2	40	
RB226	1	125	7	63	.2	11	16	749	4.35	29	5	ND	2	75	1	2	2	128	1.92	.15	6	15	.60	88	.01	12	.58	.02	.16	2	20	
RB227	1	26	5	59	.3	12	9	787	2.93	9	4	ND	2	145	1	2	2	95	6.74	.03	2	3	2.28	2177	.01	4	.41	.01	.02	2	70	
RB228	1	71	6	61	.1	183	22	909	3.91	9	3	2	2	272	1	2	2	63	9.49	.02	2	223	3.87	1371	.01	5	.26	.01	.01	2	110	
RB229	1	65	8	105	.5	14	12	1513	4.73	36	7	ND	2	168	2	9	2	148	10.17	.01	3	14	3.80	238	.01	2	.26	.01	.01	2	840	
RB230	1	54	6	59	.3	12	9	865	2.92	4	5	ND	2	110	1	2	2	91	6.24	.06	3	1	1.91	93	.01	4	.68	.01	.04	2	40	
RB231	1	4811	10	102	3.4	48	12	1122	4.59	150	9	ND	2	154	3	47	3	120	12.39	.01	2	10	4.93	518	.01	4	.23	.02	.03	2	260	
518 A-1	1	29	37	173	.3	31	11	921	2.72	9	2	ND	2	35	2	2	2	53	.55	.08	7	71	.74	212	.08	7	1.90	.01	.16	2	60	

## LACANA FILE # 83-0357

PAGE # 2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mi ppm	Co ppm	Mn ppm	Fe I	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca I	P I	La ppm	Cr ppm	Mg I	Ba ppm	Ti I	B ppm	Al I	Na I	K I	H ppm	Hg ppb
S8201	1	66	7	54	.1	40	12	660	2.91	2	2	ND	2	40	1	2	2	68	.57	.09	7	76	.93	277	.07	6	1.99	.02	.37	2	20
S8202	1	59	5	48	.1	30	11	538	2.79	5	2	ND	2	42	1	2	2	67	.62	.09	8	59	.79	233	.07	8	1.92	.02	.36	2	10
S8203	1	59	9	44	.2	34	11	495	2.86	6	2	ND	2	44	1	2	2	70	.60	.07	8	60	.99	190	.08	5	1.99	.02	.31	2	30
S8204	1	49	8	47	.2	23	9	682	2.33	8	2	ND	2	48	1	2	3	53	.63	.10	8	44	.62	269	.06	6	1.91	.02	.32	2	20
S8205	1	65	8	51	.1	28	11	587	2.92	4	2	ND	2	47	1	2	2	72	.63	.09	8	51	.79	228	.07	7	1.99	.02	.37	2	50
S8206	1	51	7	54	.1	21	10	641	2.30	4	2	ND	2	49	1	2	2	50	.58	.13	8	38	.55	269	.07	4	1.99	.03	.28	2	20
S8207	1	57	10	55	.1	20	11	702	2.72	9	2	ND	2	45	1	2	2	61	.49	.09	8	35	.63	364	.08	5	2.30	.03	.22	2	30
S8208	1	78	8	61	.1	25	14	857	3.15	14	2	ND	2	46	1	4	2	77	.95	.12	7	39	.80	495	.05	8	1.86	.02	.34	2	40
STD A-1	1	30	38	170	.3	31	12	933	2.73	9	2	ND	2	34	1	2	2	54	.54	.11	7	74	.73	306	.08	7	1.90	.02	.21	2	50

APPENDIX A Cont.



APPENDIX B

STATEMENT OF QUALIFICATIONS

I, Murray Morrison, of the City of Kelowna, in the Province of British Columbia, do hereby state that:

1. I graduated from the University of British Columbia in 1969 with a B.Sc. Degree in Geology.
2. I have been working in all phases of mining exploration in Canada for the past fourteen years.
3. During the past fourteen years, I have intermittently held responsible positions as a geologist with various mineral exploration companies in Canada.
4. Over the past twelve years, I have examined many mineral properties within the Nicola Mining Division.
5. I personally carried out the prospecting and sampling program outlined in this report.
6. I own full title to the May #1 & 2 mineral claims described in this report.

May 1, 1983  
Kelowna, B.C.

  
Murray Morrison, B.Sc.

- 10 -  
APPENDIX C

STATEMENT OF EXPENDITURES ON THE MAY #1 & 2 MINERAL CLAIMS

Statement of Expenditures in connection with the Rock Geochem Sampling Program carried out on the May #1 & 2 mineral claims, N.T.S. 92-I-1, Merritt Area, B.C., for the year 1982.

FIELDWORK COSTS

Prospector (geologist)	5 days @ \$150/day	\$	750.
Meals and Lodging	5 days @ \$50/day		250.
Truck (4x4, incl. gasoline)	5 days @ \$55/day		275.
Materials: Flagging, belt chain thread, rock sample bags			25.

LABORATORY COSTS

31 rock geochem samples @ \$11.00/sample	341.
8 soil " " @ \$ 9.00/sample	72.
ICP Analysis for 30 elements, plus Hg by AA	


REPORT PREPARATION COSTS

Prospector (geologist)	2 days @ \$150/day	300.
Drafting	2 days @ \$100/day	200.
Typing -	13 pages @ \$ 3/page	39.
Copying maps and reports for filing (two copies)		30.

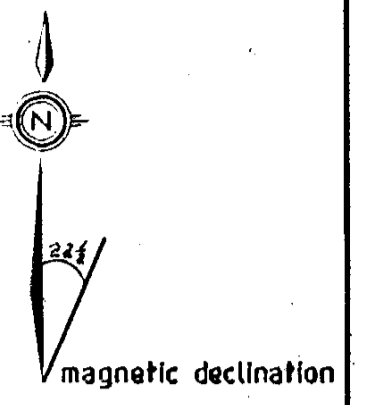
TOTAL: \$ 2282.

I hereby certify that the above statement is a true statement of monies expended in connection with the rock geochem sampling program carried out September 9 - 13, 1982.

May 1, 1983

  
Murray Morrison - Geologist

MAY 2 L.C.P.  
MAY 1 L.C.P.

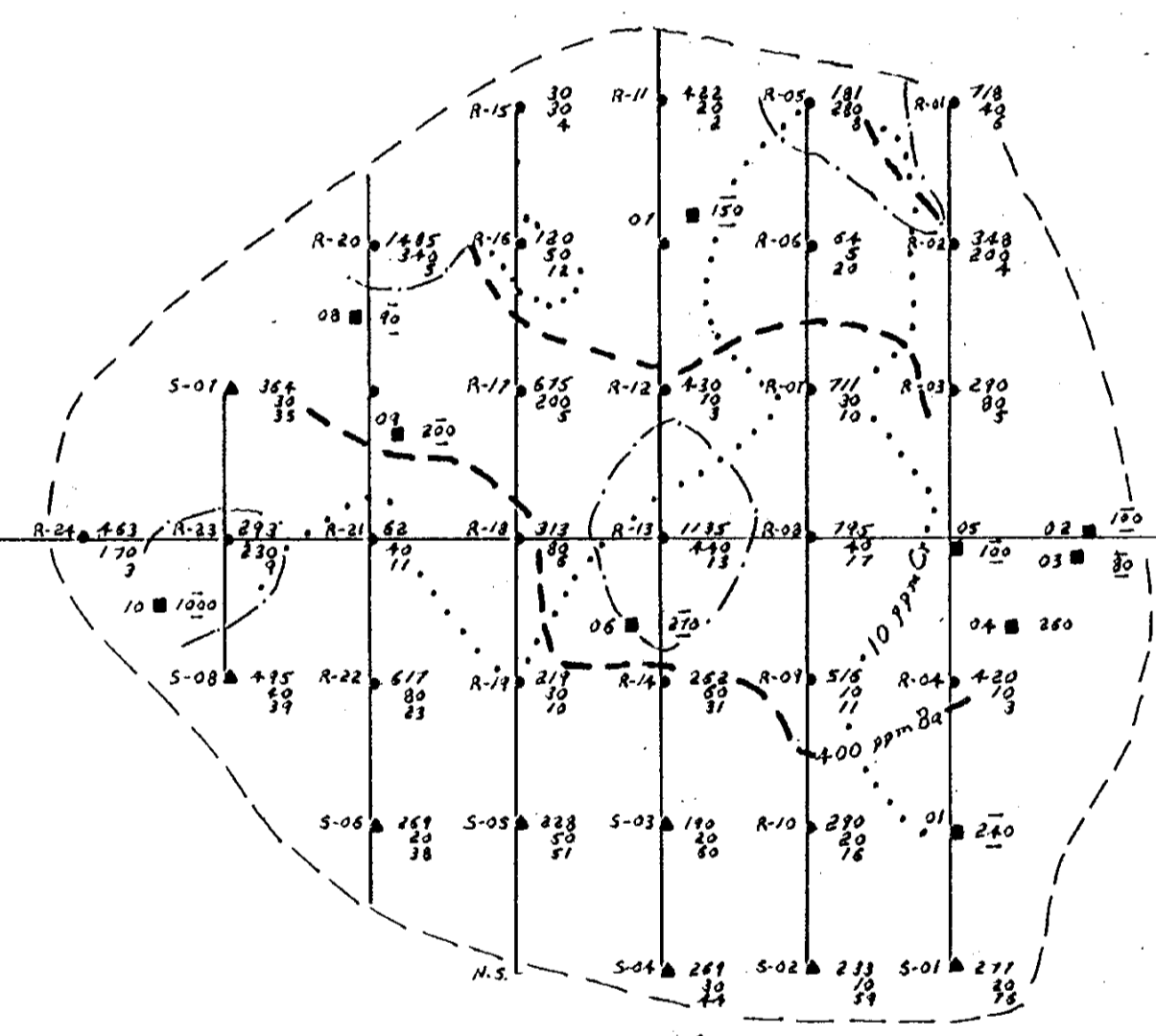


MAY 1

Paradise Lake Road  
5KM

— 22 N —  
— 21 N —  
— 20 N —  
— 19 N —  
— 18 N —

240 KV Powerline



- GEOLOGICAL LEGEND -

- carbonate alteration zone
- R-01 ● 1982 rock geochem sample site
- S-01 ▲ 1982 soil " " "
- 01 ■ 1981 rock " " "

- GEOCHEM VALUES -

718 - ppm Ba  
40 - ppb Hg  
6 - ppm Cr

- Barium anomalies (greater than 400 ppm)
- Chromium anomalies (greater than 10 ppm)
- Mercury anomalies (greater than 200 ppb)

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

11,202  
100 50 10 100 metres

See geology on Map M-83-4. *Jimmy Morrison*  
To accompany a geochemical report by M. Morrison.

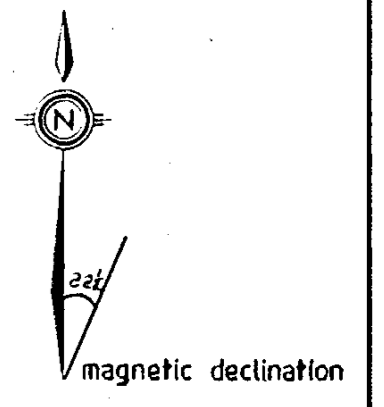
MAY CLAIMS  
MERRITT AREA, NICOLA M.D., B.C.

GEOCHEM  
BARIUM, CHROMIUM AND MERCURY  
MAY NO. 1 MINERAL CLAIM

Drawn by M.M.	May 1983	N.T.S. 921/1
Drafted by A.H.	Scale 1:2500	Map M-83-3

— M 6 —  
— M 8 —  
— M 7 —  
— M 9 —  
— M 5 —  
— M 7 —

MAY 2 L.C.P.  
MAY 1 L.C.P.



- GEOLOGICAL LEGEND -

UPPER TRIASSIC

NICOLA GROUP

- 2a fine grained, waterlain dacite and andesitic tuff
- 2b medium grained andesite tuff
- 2c carbonate altered andesite tuff

- outcrop
- carbonate alteration zone
- └ creek

- R-01 • 1982 rock geochem sample site
- S-01 ▲ 1982 soil geochem sample site
- 1981 rock geochem sample site

- GEOCHEM VALUES -

- 0.2 ppm Ag
- 5.16 % Ca
- 1.77 % Mg

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

11,202



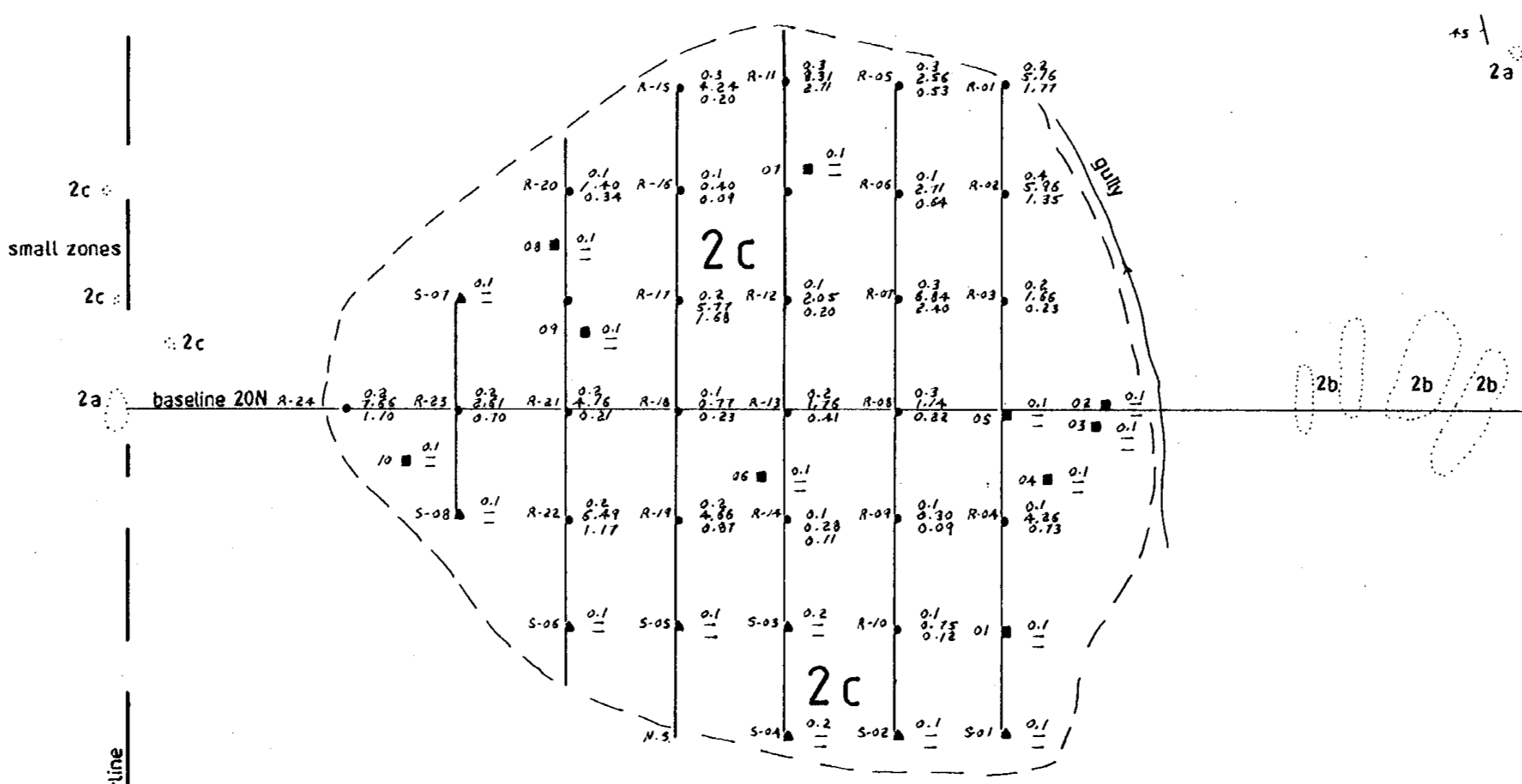
Legal Corner Post tied in to grid by compass and belt chain.  
To accompany a geochemical report by M. Morrison.  
*Murray Morrison*

<b>MAY CLAIMS</b>		
MERRITT AREA, NICOLA M.D., B.C.		
<b>GEOCHEM SILVER, CALCIUM AND MAGNESIUM MAY 1 MINERAL CLAIM</b>		
Drawn by M.M.	May 1983	N.T.S. 92 1/1
Drafted by A.H.	Scale 1:2500	Map M-83-4

MAY 1

Paradise Lake Road 5 KM

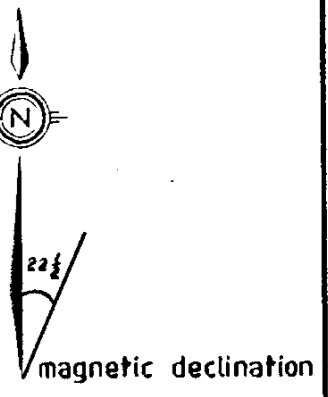
— 22 N —  
— 21 N —  
— 20 N —  
— 19 N —  
— 18 N —



240 KV Powerline

— 9 W —  
— 8 W —  
— 7 W —  
— 6 W —  
— 5 W —  
— 4 W —

MAY 2 L.C.P.  
MAY 1 L.C.P.

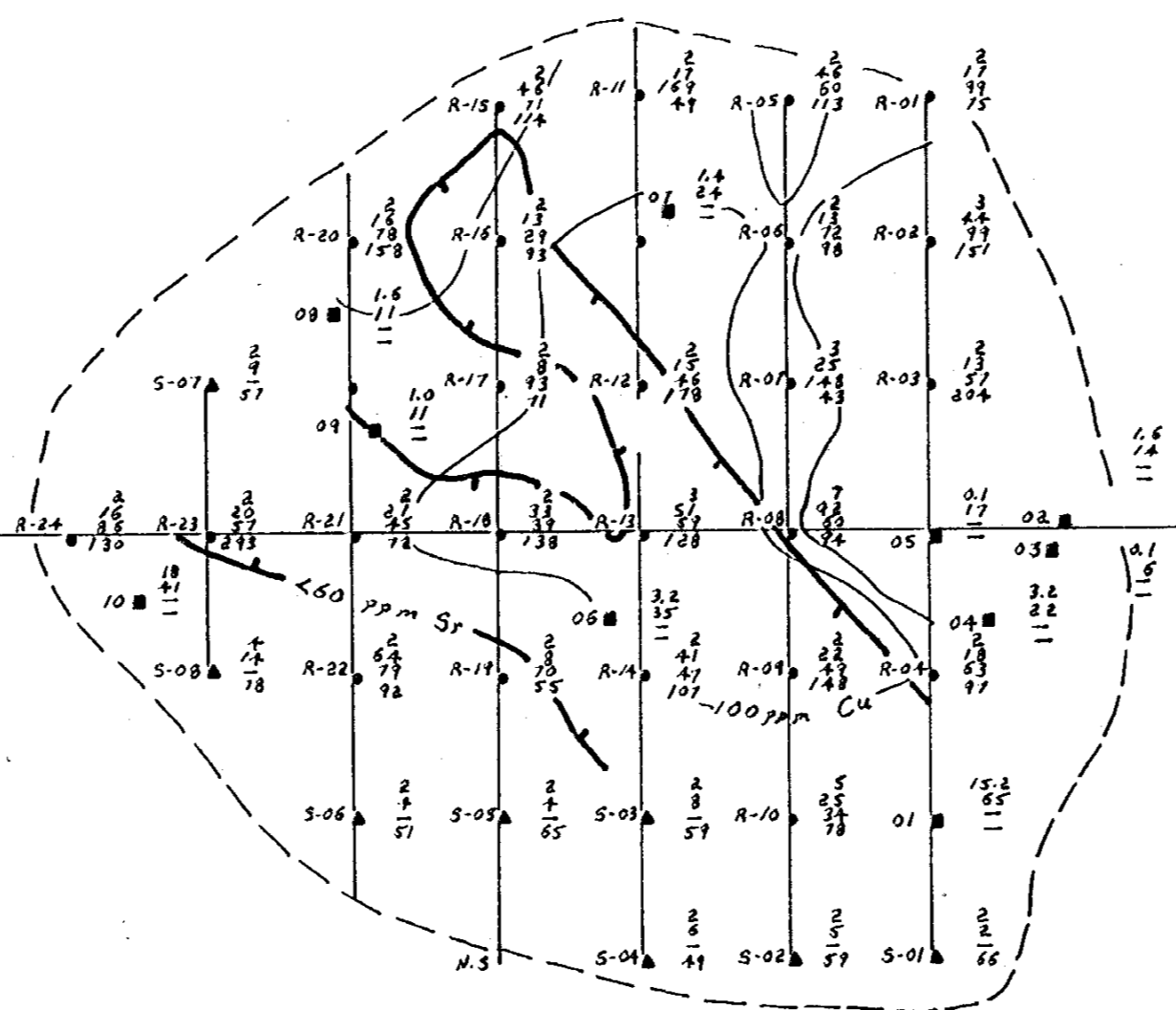


MAY 1

Paradise Lake Road 5 KM

22 N  
21 N  
20 N  
19 N  
18 N

240 KV Powerline



9 W  
8 W  
7 W  
6 W  
5 W  
4 W

- GEOLOGICAL LEGEND -

- carbonate alteration zone
- R-01 ● 1982 rock geochem sample site
- S-01 ▲ 1982 soil " " "
- 01 ■ 1981 rock " " "

- GEOCHEM VALUES -

- 2 - ppm Sb
- 17 - ppm As
- 99 - ppm Sr
- 75 - ppm Cu

- ⊖ Strontium low anomaly (less than 60 ppm)
- ⊕ Copper high anomaly (greater than 100 ppm)

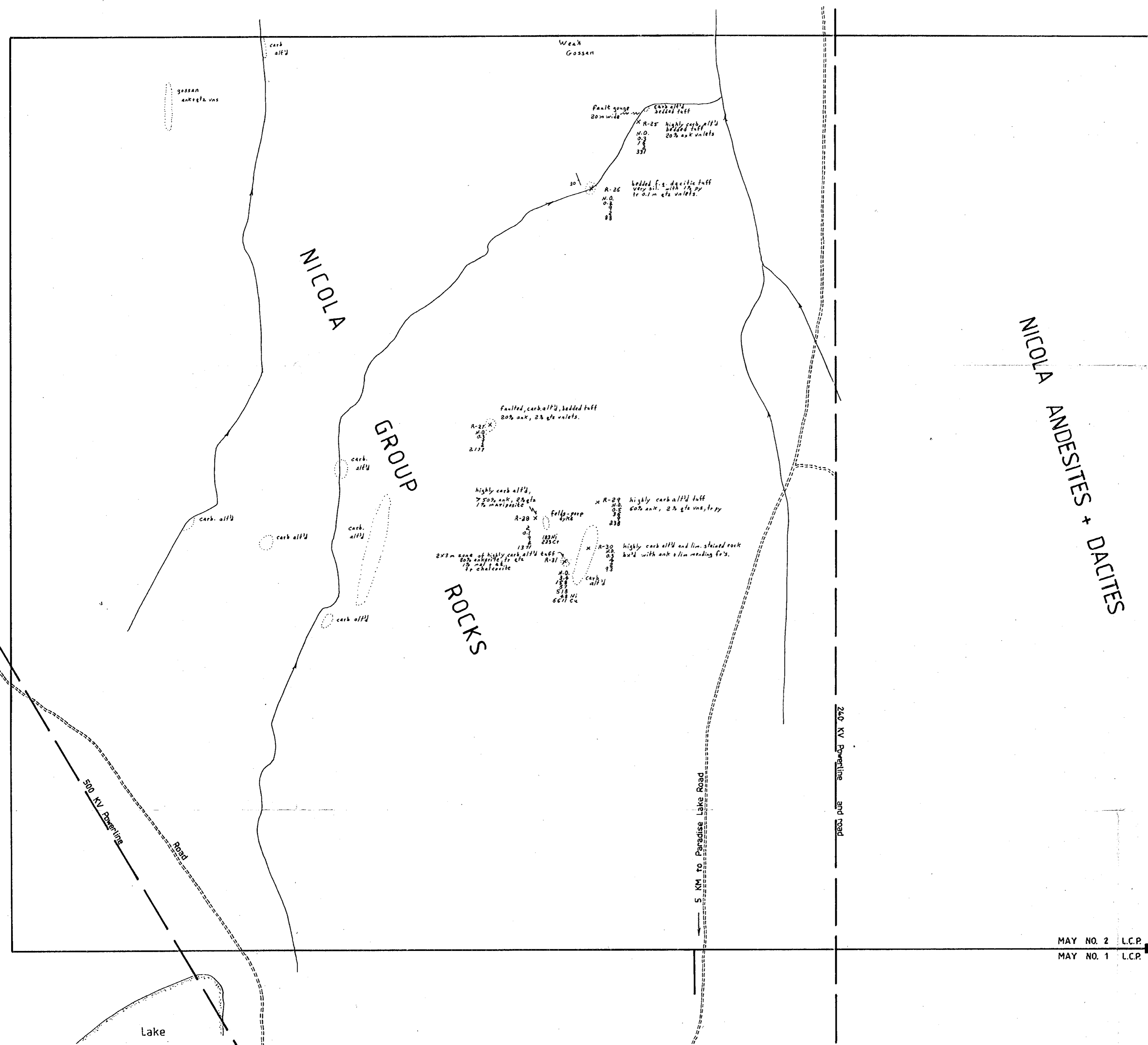
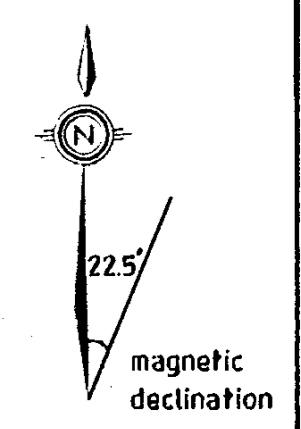
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

11,202



See geology on map M - 83 - 4. *Shirley Morrison*  
To accompany a geochemical report by M. Morrison.

<b>MAY CLAIMS</b>		
MERRITT AREA, NICOLA M.D., B.C.		
<b>GEOCHEM</b>		
<b>ANTIMONY, ARSENIC, STRONTIUM and COPPER</b>		
<b>MAY 1 MINERAL CLAIM</b>		
Drawn by M.M.	May 1983	N.T.S. 921/1
Drafted by A.H.	Scale 1:2500	Map M-83-5



- GEOLOGICAL LEGEND -

- outcrop
- ~ creeks
- roads
- ank - ankerite
- az - azurite
- carb - carbonate
- mal - malachite
- py - pyrite
- qtz - quartz
- sil - silicified
- vns - veins

- R-28 rock geochem sample site
- 2 ppm - Au
- 0.1 ppm - Ag
- 9 ppm - As
- 2 ppm - Sb
- 1371 ppm - Ba

GEOLOGICAL TRANCH  
ASSESSMENT REPORT

11,202

MAY NO. 2 L.C.P.  
MAY NO. 1 L.C.P.



See geology on Map M-83-4. *Murray Morrison*  
To accompany a geochemical report by M. Morrison.

<b>MAY CLAIMS</b>		
MERRITT AREA, NICOLA M.D., B.C.		
<b>PROSPECTING AND SAMPLING MAP</b>		
<b>MAY 2 MINERAL CLAIM</b>		
Drawn by M.M.	MAY 1983	N.T.S. 92 1/1
Drafted by A.H.	Scale 1:5000	Map M-83-6