

GOLD COMMISSIONER
RECEIVED and RECORDED

JAN 12 1990

M.R. # 326903J
VICTORIA, B.C.

LOG NO 0117 ED

DATE

FILE NO:

GEOLOGICAL AND GEOCHEMICAL REPORT

on the

TRAIL MINERAL CLAIM

Babine Lake Area
Omineca Mining Division
British Columbia

NTS: 93M/8W
55 25 N 126 20 W

OWNER: ELIZABETH A. CARTER

AUTHOR: N.C. CARTER, Ph.D. P.Eng.

DATE: JANUARY 10, 1990

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,557

TABLE OF CONTENTS

	Page
INTRODUCTION	
Location and Access	1
Mineral Property	1
History	1
Present Status	2
GEOLOGY AND MINERALIZATION	
Physical Setting	2
Regional Geological Setting	3
Property Geology and Mineralization	4
CONCLUSIONS AND RECOMMENDATIONS	8
COST STATEMENT	9
REFERENCES	10
AUTHOR'S QUALIFICATIONS	11
APPENDIX I - Geochemical Analyses	12

List of Figures

	Following Page
Figure 1 - Location	Frontispiece
Figure 2 - Location - TRAIL Claim	1
Figure 3 - TRAIL Mineral Claim	2
Figure 4 - TRAIL Claim - Geology	in pocket
Figure 5 - TRAIL Claim - Main Trench Area	6

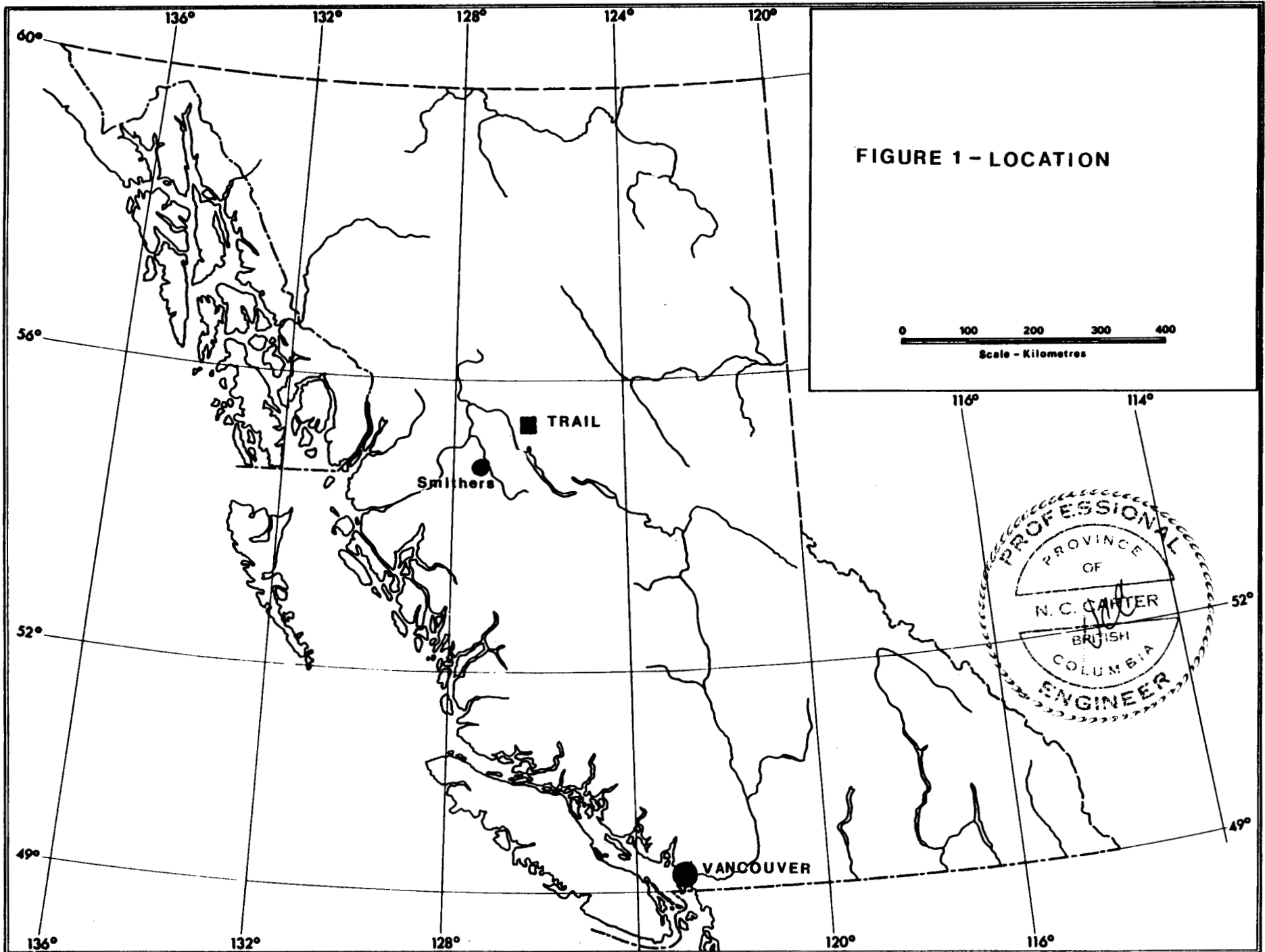


FIGURE 1 - LOCATION

0 100 200 300 400
Scale - Kilometres

PROFESSIONAL
ENGINEER
BRITISH COLUMBIA
PROVINCE OF
N.C. CARTER
N.C. Carter

INTRODUCTION

Location and Access

The TRAIL mineral claim, north of Babine Lake, is situated 90 km northeast of Smithers in west-central British Columbia (Figure 1). The geographic centre of the property is at latitude 55 25 North and longitude 126 20 West in NTS map-area 93M/8W.

Access is by helicopter from Smithers. The property is immediately north of the historic Hudson's Bay trail between Hazelton and Takla Lake which has been used in the recent past to walk bulldozers into the area. This route has also been used for a recently constructed power line between Babine and Takla Landing. Logging roads in the Nilkitkwa River valley extend to within 15 km of the property (Figure 2).

Mineral Property

The TRAIL property consists of one Modified Grid mineral claim of 16 units as shown on Figure 3. Details of the mineral claim are as follows:

<u>Claim Name</u>	<u>Units</u>	<u>Record Number</u>	<u>Date of Record</u>
TRAIL	16	9936	October 16, 1988

History

A series of pits in the area of a narrow polymetallic vein 2 km southeast of Trail Peak are evidence of work prior to

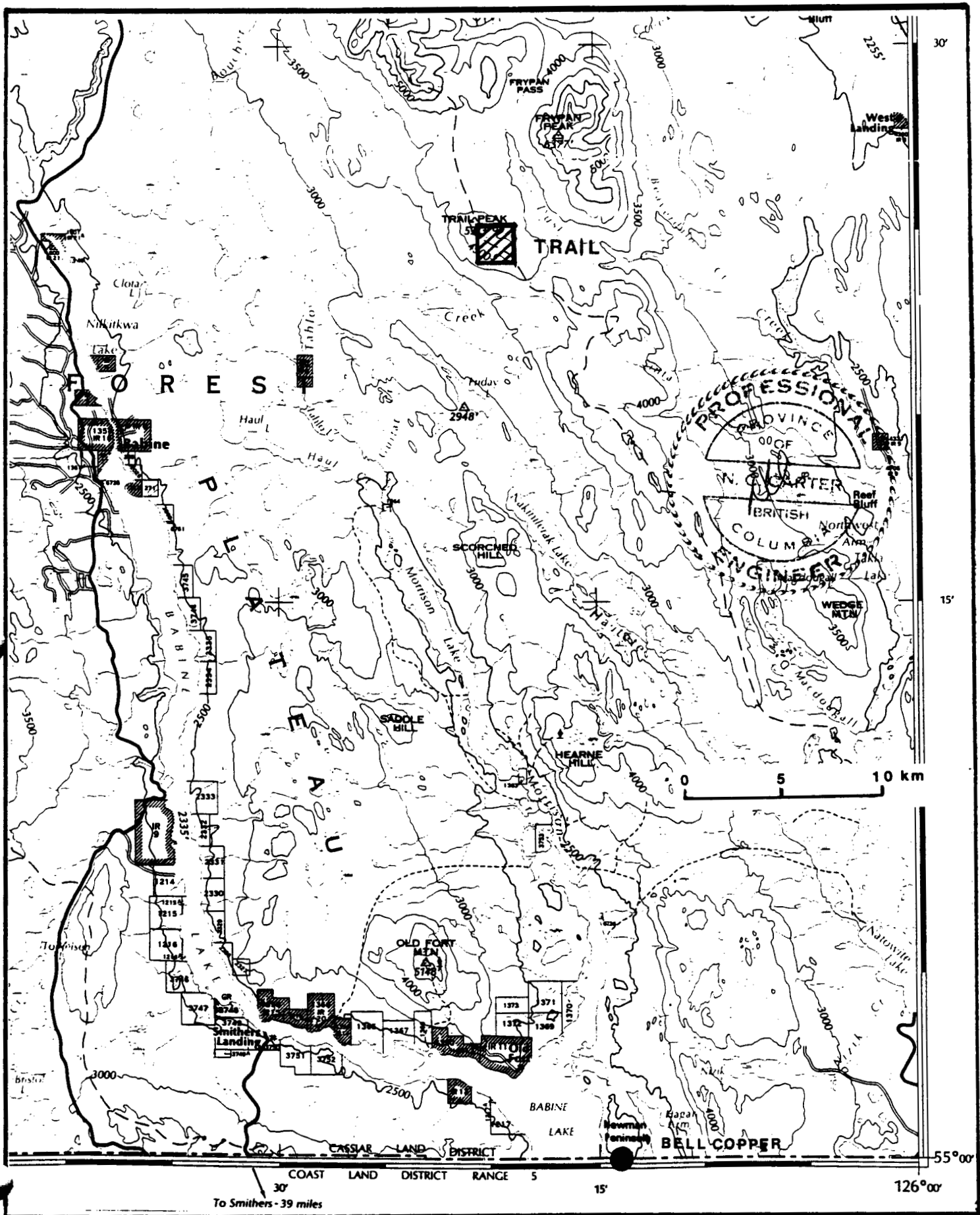


FIGURE 2 - LOCATION - TRAIL CLAIM

investigation of porphyry copper potential of the Babine Lake area in the 1960's. In view of the proximity of Hudson's Bay trail it is probable that rusty rocks on Trail Peak were investigated during the Omineca gold rush of the 1870's.

Trail Peak was investigated for porphyry copper potential by Texas Gulf Sulphur Company between 1968 and 1975. Work by this company included geological mapping, geophysical surveys, soil geochemistry, 3600 metres of bulldozer trenching and 1080 metres of diamond drilling in 12 holes.

Present Status

The TRAIL mineral claim was located by the writer October 16, 1988.

Field work on the claim between staking and mid-September of 1989 included two days of mapping and rock sampling by Teck Explorations Ltd. personnel and geological mapping and sampling by the writer.

GEOLOGY AND MINERALIZATION

Physical Setting

Trail Peak is an isolated topographic high at the north edge of the Nechako Plateau. The summit of Trail Peak rises some 600 metres above an area of gentle relief north of Babine Lake.

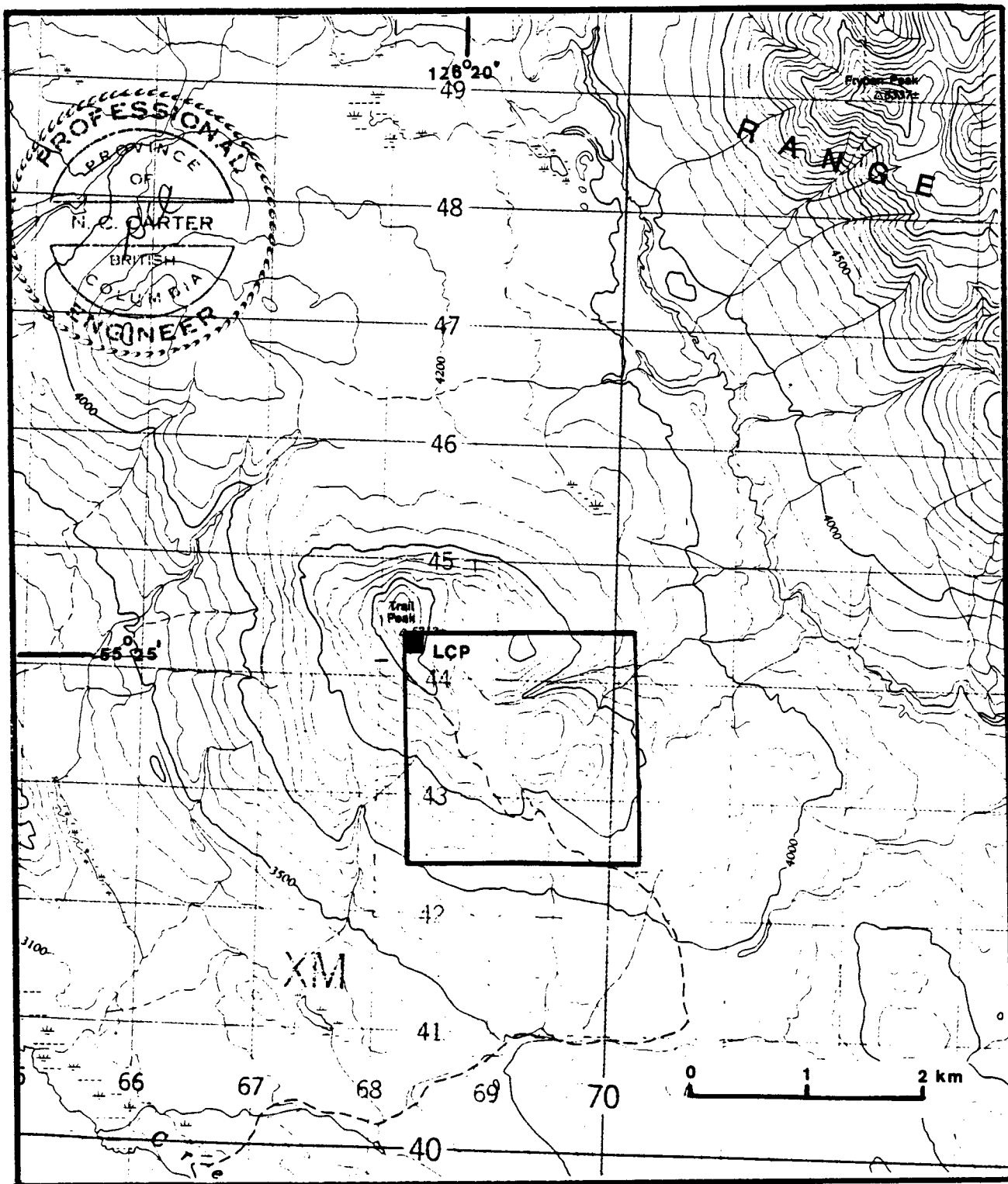


FIGURE 3 - TRAIL MINERAL CLAIM

Elevations within the claim area range from 1200 metres at the southwest corner of the claim to 1620 metres at the Legal Corner Post at the Trail Peak survey monument (Figure 3).

Much of the northern half of the claim is above the tree line of 1460 metres. Bedrock is well exposed in the vicinity of Trail Peak and most areas above tree line. 20 year old bulldozer trenches afford almost continuous bedrock exposure.

Regional Geological Setting

The Babine Lake area is within the Intermontane tectonic belt which is underlain principally by Mesozoic and older layered rocks, the most widespread in this area being volcanic and sedimentary rocks of the Jurassic Hazelton Group. These are intruded by plutonic rocks of various ages including lower Jurassic Topley intrusions, Omineca intrusions of early Cretaceous age, late Cretaceous rhyolite and granodiorite porphyries and Babine intrusions of early Tertiary age.

The best known style of mineralization in the Babine Lake area is porphyry copper mineralization associated with small stocks and dyke swarms of biotite-feldspar-porphyry of the Babine intrusions. More than a dozen of this type of deposit have been drilled over the past 25 years of which two (Bell, Granisle) have been developed as producing mines and one (Morrison) has drill-indicated reserves.

The Bell copper mine is also a significant producer of gold with past production and anticipated reserves totalling 68 million tonnes with a recovered and contained 17755 kg (570,819 oz.) of gold (Schroeter et al,1989). Bell Copper produced 21926 tonnes of copper and 875 kg of gold from 5964020 tonnes milled in 1987 (Schroeter et al,1989).

Copper-molybdenum mineralization is also known to occur in late phases of the Topley intrusions, and in late Cretaceous granodiorite porphyries. Other deposit types in the area include narrow veins with base and precious metals values which commonly occur marginal to known porphyry deposits and disseminated copper mineralization in Hazelton Group volcanic rocks.

Deposits with volcanogenic massive sulfide affinities and containing precious metals values include Topley Richfield 10 km north of Topley, the RED prospect 5 km northeast of the dormant Granisle copper mine and the Fireweed silver-lead-zinc prospect 12 km west of the Bell Copper mine.

Property Geology and Mineralization

The TRAIL claim is underlain principally by dark grey cherty siltstones which are variably iron-stained due to the presence of finely disseminated pyrite. Immediately west of Trail Peak, crystal lithic tuffs are interbedded with the sedimentary rocks (Figure 4).

The sedimentary and lesser volcanic sequence, part of the Hazelton Group of mid to late Jurassic age (Richards,1974), is contained in a northwest trending synform (Carter,1969) which has been transected by northwest and east-northeast faults.

Thinly bedded siltstones and mudstones in the southeast claim area are less indurated than the more prevalent cherty siltstone unit and may be part of a younger (Skeena Group?) sequence.

Intruding the layered rocks are small, fault-bounded plugs of medium-grained diorite - granodiorite and dykes and irregular masses of finer grained porphyry (Figure 4). Sedimentary rocks marginal to these intrusions have been converted to biotite hornfels.

The diorite - granodiorite intrusions are of Cretaceous age (104 Ma - Carter,1981) and were localized by the intersection of northeast and northwest faults on Trail Peak. These and the sedimentary sequence are cut by predominantly northwest striking dykes of biotite-(hornblende)-feldspar porphyry of Eocene age (49 Ma - Carter,1981), typical of the Babine intrusions. A large outcrop area of trachytic textured hornblende-feldspar porphyry exhibiting crude columnar jointing in the eastern claim area may represent an extrusive equivalent of the Babine intrusions.

Both the diorite - granodiorite and the porphyry dykes are offset by later movement along faults, particularly the east-northeast fault in the central part of the claim (Figure 4).

Better copper mineralization is also developed along this fault, particularly with the porphyries in which chalcopyrite and pyrite occur as disseminations on fracture planes and in 0.5 - 1.0 cm quartz veinlets. Abundant tourmaline occurs in quartz veinlets and in stringers and irregular clots both within and marginal to the northeast fault.

Bulldozer trenching by Texas Gulf was carried out in two areas north and south of the east-northeast fault (Figure 4). Subsequent diamond drilling consisted of 10 shallow (60-75 metres) inclined holes in the western trench area in 1969 and two deeper (130 and 340 metres) holes in 1975 (DeLancey,1975), one of which was drilled in the eastern trench area. Core from the two 1975 holes is stored on the property.

Rock sampling, principally of the 1969 trenches, was undertaken in 1988 and 1989. Analytical results (Appendix I) include those for samples collected by the writer (TR88-1-4;TR89-1-9) and by Teck personnel (G382-384R;G461-484R). Samples collected were analyzed by inductively coupled argon plasma (ICP) techniques for 31 major and trace elements by Min-En Laboratories of North Vancouver (NCC samples) and by Rossbacher Laboratory Ltd. of Burnaby (Teck samples). Gold values in both cases were determined by atomic absorption methods.

Analytical results indicate that samples of diorite - granodiorite or hornfelsed siltstones contain little of economic

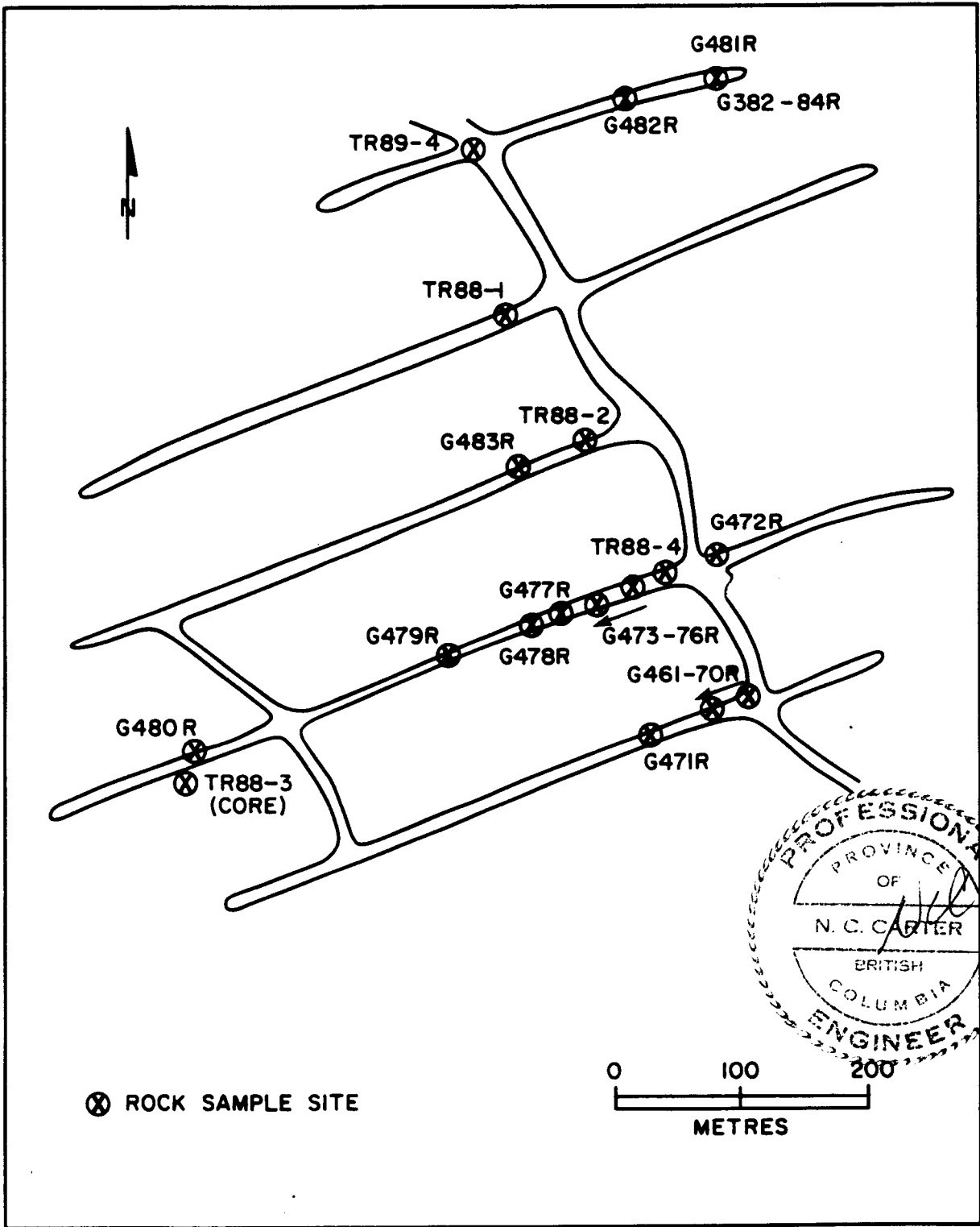


FIGURE 5 - TRAIL CLAIM - MAIN TRENCH AREA

interest unless collected in close proximity to a biotite-(hornblende)-feldspar porphyry dyke or marginal to the east-northeast fault.

Copper values for samples collected within or marginal to porphyry dykes ranged from 64 to 3608 ppm. A sample taken from drill core from hole 11-75 at a depth of 300 metres contained 1223 ppm copper. This hole was drilled northerly from one of the west (main) trenches near the east-northeast fault zone. Better gold values are associated with higher copper content and range from 52 to 1160 ppb. Higher values were obtained in the eastern trench area immediately south of the east-northeast fault zone (Figure 4) and include samples TR89-7 and G484R. Chalcopyrite and pyrite occur on fractures and in quartz-tourmaline veinlets in biotite-(hornblende)-feldspar porphyries in this area. These anomalous gold values have been corroborated by 1988 sampling by Placer Dome Inc. (G. Ditson, personal communication). One trench sample yielded 698 ppb gold and soil samples collected between the trench and the creek (fault zone) to the north (Figure 4) included one sample containing 0.41% copper and 1075 ppb gold.

Several old hand pits and trenches 1 km southeast of the main trench area expose a narrow (10 cm) quartz vein containing sphalerite, tetrahedrite and galena in a northwest striking shear zone in black siltstone. A sample of this material (TR89-9) contained 547.3 ppm silver and 3.1% zinc plus high values for

lead, cadmium, arsenic and antimony.

CONCLUSIONS AND RECOMMENDATIONS

The TRAIL claim includes widespread copper mineralization associated with Tertiary Babine porphyry intrusions which in drill core feature multiple intrusive phases. Interesting gold values have been obtained from samples collected marginal to an east-northeast fault zone characterized by abundant tourmaline. A narrow quartz vein southeast of the area of copper (gold) mineralization contains high silver values and is indicative of a second style of mineralization on the TRAIL claim.

Additional work is warranted. This should consist of more detailed surface sampling with particular emphasis on the east trench area plus re-logging and re-sampling of core from the one hole drilled in this area. All diamond drill core recovered from the area of the present claim should be located and re-sampled.

COST STATEMENT

Wages

N.C. Carter - October 16, 1988, September 11, 12, 1989 2 days @ \$500/day	\$1,000.00
Teck Personnel -	
Lynn Grexton - August 7, 8, 1989	\$300.00
Paul Roberts - " "	<u>\$200.00</u>
	\$1,500.00

Transportation

Helicopter Access - N.C. Carter	\$700.00
- Teck Personnel	<u>\$1,392.00</u>
	\$2,092.00

Geochemical Analyses

N.C. Carter - 13 samples @ \$17.25/sample	\$224.25
Teck - 27 samples @ \$17.25/sample	<u>\$465.75</u>
	\$690.00

Report Preparation

N.C. Carter - 1.6 days @ \$500/day	\$800.00
Word Processing, drafting, duplicating	<u>\$218.00</u>
	\$1,018.00

TOTAL EXPENDITURE	\$5,300.00
-------------------	------------

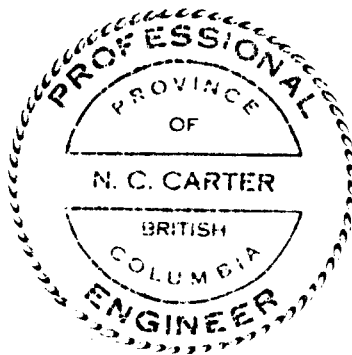
REFERENCES

- B.C. Ministry of Energy Mines and Petroleum Resources:
- Annual Report of the Minister of Mines and Petroleum Resources 1968 - p.135-136
- Geology, Exploration and Mining in B.C. - 1973,p.359
- Carter,N.C.(1969): CAVZ in Geology, Exploration and Mining in B.C. 1969,pp. 110-112
- _____ (1981): Porphyry Copper and Molybdenum Deposits, West-Central British Columbia, B.C. Ministry of Energy Mines and Petroleum Resources Bulletin 64, pp. 73,146-148
- DeLancey,Peter(1975): Drilling Report - CAVZ Claims, Omineca Mining Division,B.C., BCMEMPR Assessment Report 5706
- Richards,T.(1974): Hazelton East Half, Geological Survey of Canada Open File map

AUTHOR'S QUALIFICATIONS

I, NICHOLAS C. CARTER, of 1410 Wende Road, Victoria, B.C. do hereby certify that:

1. I am a Consulting Geologist, registered with the Association of Professional Engineers of British Columbia since 1966.
2. I am a graduate of the University of New Brunswick with B.Sc.(1960), Michigan Technological University with M.S.(1962) and the University of British Columbia with Ph.D. (1974).
3. I have practised my profession in eastern and western Canada and in parts of the United States for more than 25 years.
4. Geological mapping and sampling on the TRAIL mineral claim as described in the foregoing report was carried by the undersigned in September of 1989.



N.C. Carter Ph.D. P.Eng.

N.C. Carter, Ph.D. P.Eng.

Victoria, B.C.
January 10, 1990

APPENDIX I
Geochemical Analyses

COMP: NICK CARTER
 PROJ:
 ATTN: NICK CARTER

MIN-EN LABS — ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

FILE NO: 9S-0217-RJ1
 DATE: SEP-19-89
 * TYPE ROCK GEOCHEM * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPM
20486 TRM-1	1.5	18780	1	1	459	1.1	10	8270	.7	19	22	38850	8210	12	13560	985	5	920	11	2040	23	1	15	1	1	146.2	117	1	2	1	33	4
20487 -2	1.3	24660	34	1	134	1.2	9	6870	1.6	23	30	43030	6870	14	11960	420	4	2150	10	650	9	1	16	1	1	121.8	65	2	2	1	50	3
20488 -3	1.8	35720	38	1	287	1.2	11	12850	.5	19	77	40060	7690	15	12520	388	7	3800	26	720	22	1	45	1	1	133.4	93	2	2	2	99	1
20489 -4	1.5	19550	110	1	121	.8	10	2970	1.4	18	79	32730	4710	11	11110	622	4	960	19	560	26	1	10	1	1	114.3	104	2	1	1	60	2
20490 -5	2.3	23420	1	1	292	1.2	14	6470	.6	28	258	38560	8980	18	23170	583	7	970	40	1540	39	1	49	1	1	137.6	107	2	2	2	100	2
20491 -6	1.2	12920	16	4	74	.9	8	4080	.4	14	46	30670	2290	8	9860	520	14	580	7	1060	12	1	9	1	1	73.6	62	2	1	1	59	2
20492 -7	2.3	11610	3	1	41	.3	7	10730	.2	7	1663	5480	1050	4	3710	322	87	890	8	1020	3	2	166	1	2	44.4	51	1	2	1	76	52
20493 -8	1.4	26100	57	1	63	1.1	8	10690	.2	12	27	23720	4160	15	7790	230	3	3420	9	780	16	1	28	1	1	83.7	69	2	1	1	88	2
20494 -9	547.3	2070	35297	19	68	1.7	115	810	737.1	37	1195	256020	1800	1	3550	44251	9	30	39	420	2550	2904	95	1	1	13.6	31100	1	5	2	1	11

PROJECT NO:

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: S1-167/P1

ATTENTION: N. CARTER

(604)980-5814 OR (604)988-4524

* TYPE ROCK GEOCHEM *

DATE: OCTOBER 22, 1988

	20482	20483	20484	20485
AG	.9	.8	2.6	.6
AL	8830	2390	17700	7490
AS	41	4	18	5
BA	6	6	1	13
BB	119	70	172	155
BE	.7	.6	1.3	.6
BI	7	5	17	5
CA	1800	680	14760	670
CD	3.0	2.2	4.4	2.5
CO	6	4	45	4
CU	6	65	1223	22
FE	24340	15670	43850	18840
K	2460	1300	11170	4120
LI	7	4	14	4
MG	7710	1310	18470	2350
MN	167	35	284	29
MO	5	57	27	8
NI	840	610	630	590
NI	10	5	28	4
P	530	190	1100	190
PB	18	9	15	10
PS	1	1	1	1
PT	20	11	51	10
TH	1	1	2	1
U	1	3	1	1
V	52.7	11.7	120.7	19.6
ZN	19	13	28	12
GA	2	1	4	1
BR	1	1	3	1
W	3	3	4	4
OR	77	90	76	103
AU-PPB	7	49	20	1

TR88-1 TR88-2 TR88-3 TR88-4

ROSSBACHER LABORATORY LTD.

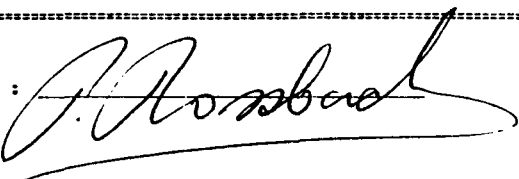
2225 S. Springer Ave., Burnaby,
British Columbia, Can. V5B 3N1
Ph: (604)299-6910 Fax: 299-6252

CERTIFICATE OF ANALYSIS

TO : TECH EXPLORATIONS LTD.
960-175 SECOND AVE.
KAMLOUPS, B.C.
PROJECT : 1365
TYPE OF ANALYSIS : ICP

CERTIFICATE # : 89237
INVOICE # : 90411
DATE ENTERED : 89-07-28
FILE NAME : TFC09237.1
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM NO	PPM CU	PPM PB	PPM ZN	PPM AG	PPM NI	PPM CO	PPM Mn	Z FE	PPM AS	PPM U	PPM AU	PPM HG	PPM SR	PPM CD	PPM SB	PPM BI	PPM V	Z CA	Z P	PPM LA	PPM CR	Z MG	PPM BA	Z TI	PPM B	Z AL	Z NA	Z SI	PPM M	PPM BE
	89-6-377-R	1	27	16	64	0.1	9	15	450	3.49	34	5	ND	ND	89	1	16	2	79	1.30	0.24	2	48	0.78	55	0.13	301	2.84	0.01	0.01	1	2
	378-R	2	73	19	134	0.1	36	16	1099	5.64	24	5	ND	ND	30	1	6	2	114	0.58	0.34	3	112	1.80	19	0.18	389	2.47	0.01	0.01	1	2
	379-R	1	7	1	113	0.1	7	4	436	2.40	13	5	ND	ND	15	1	5	2	52	0.62	0.18	1	34	0.49	28	0.01	146	1.18	0.01	0.01	1	1
	380-R	1	9	1	32	0.1	20	13	256	7.03	2	5	ND	ND	162	1	13	2	49	2.06	0.13	1	82	0.59	33	0.07	1328	3.71	0.01	0.01	1	2
	381-S	2	14	105	68	0.9	5	1	146	8.01	20	5	ND	ND	372	1	13	2	51	0.27	0.28	12	57	0.33	263	0.09	157	1.63	0.01	0.01	1	1
	382-R	7	41	1	68	0.3	27	9	353	8.54	25	5	ND	ND	5	1	2	2	72	0.17	0.31	1	71	1.43	12	0.04	1100	1.39	0.01	0.01	1	1
	383-R	13	10	6	7	0.3	4	1	24	1.42	2	5	ND	ND	4	1	6	2	4	0.01	0.01	1	86	0.02	35	0.01	49	0.18	0.01	0.01	1	1
	384-R	4	7	35	7	0.1	4	1	26	2.08	14	5	ND	ND	12	1	3	2	7	0.01	0.05	3	53	0.01	170	0.01	139	0.15	0.01	0.01	1	1
	89-6-385-R	5	5	1	12	0.1	4	2	37	0.57	2	5	ND	ND	13	1	6	2	2	0.28	0.09	2	57	0.04	43	0.01	13	0.72	0.01	0.01	1	1

CERTIFIED BY : 

ROSSBACHER LABORATORY LTD.

2225 S. Springer Ave., Burnaby,
British Columbia, Can. V5B 3N1
Ph: (604)299-6910 Fax: 299-6252

CERTIFICATE OF ANALYSIS

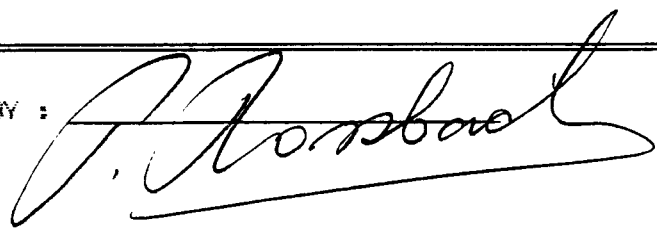
TO : TEC EXPLORATIONS LTD.
920-175 SECOND AVE.
KASLOOPS, B.C.

CERTIFICATE # : 892336
INVOICE # : 90411
DATE ENTERED : 89-08-02
FILE NAME : TEC89233.G
PAGE # : 1

PROJECT : 1365
TYPE OF ANALYSIS : GEOCHEMICAL

PRE FIX	SAMPLE NAME	PPB Au
	89-G-377 R	5
	378 R	5
	379 R	5
	380 R	5
	381 S	5
	382 R	5
	383 R	5
	384 R	5
	89-G-385 R	5

CERTIFIED BY :



ROSSBACHER LABORATORY LTD.

2225 S. Springer Ave., Burnaby,
British Columbia, Can. V5B 3N1
Ph: (604)299-6910 Fax: 299-6252

CERTIFICATE OF ANALYSIS

TO : TECH EXPLORATIONS LTD.
966-175 SECOND AVE.
LANLOOPS, B.C.

PROJECT : 1365
TYPE OF ANALYSIS : GEOCHEMICAL

CERTIFICATE # : 89262
INVOICE # : 90444
DATE ENTERED : 89-08-15
FILE NAME : TECH9262.D
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM NO	PPM CU	PPM PB	PPM ZN	PPM AG	PPM NI	PPM CO	PPM Mn	I FE	PPM AS	PPM U	PPM AU	PPM HG	PPM SR	PPM CD	PPM SB	PPM BI	PPM V	I CA	I P	PPM LA	PPM CR	I MG	PPM BA	I TI	PPM B	I AL	I NA	I SI	PPM W	PPM BE
A	461-R	18	14	16	10	0.1	10	10	39	2.60	66	5	ND	ND	5	1	10	31	10	0.03	0.02	5	203	0.03	27	0.01	376	0.12	0.01	0.01	6	1
A	462-R	28	15	18	10	0.1	13	20	45	3.34	126	5	ND	ND	5	1	16	31	10	0.02	0.02	5	202	0.03	28	0.01	627	0.12	0.01	0.01	8	1
A	463-R	3	43	20	62	0.1	31	28	591	4.63	30	5	ND	ND	26	1	10	2	150	0.63	0.19	9	130	1.98	168	0.20	191	1.88	0.03	0.01	1	2
A	464-R	8	13	8	6	0.1	5	6	32	1.36	55	5	ND	ND	15	1	8	2	12	0.02	0.01	12	78	0.11	176	0.01	69	0.39	0.02	0.01	2	1
A	465-R	6	10	13	10	0.1	6	6	68	1.08	44	5	ND	ND	15	1	7	2	19	0.06	0.02	5	93	0.24	94	0.03	85	0.36	0.02	0.01	2	1
A	466-R	6	21	11	23	0.1	13	16	239	4.11	115	5	ND	ND	62	1	8	2	90	0.13	0.11	7	71	1.01	117	0.06	146	1.07	0.02	0.01	1	1
A	467-R	8	14	3	5	0.1	8	6	28	1.31	33	5	ND	ND	6	1	7	2	7	0.02	0.01	2	136	0.03	39	0.01	182	0.17	0.02	0.01	3	1
A	89-G-468-R	11	22	28	6	0.4	7	6	71	1.81	73	5	ND	ND	10	1	9	2	21	0.05	0.02	2	113	0.22	70	0.01	121	0.39	0.02	0.01	6	1
A	469-R	6	24	17	17	0.1	12	11	135	1.80	33	5	ND	ND	9	1	5	2	40	0.17	0.06	2	117	0.50	103	0.04	159	0.59	0.01	0.01	1	1
A	470-R	2	73	22	62	0.1	30	23	514	3.61	23	5	ND	ND	20	1	4	2	95	0.46	0.14	3	116	1.76	157	0.19	260	1.69	0.01	0.01	1	1
A	471-R	8	10	1	7	0.1	4	1	35	1.94	22	5	ND	ND	1	1	2	2	6	0.02	0.01	1	135	0.03	20	0.01	380	0.12	0.01	0.01	1	1
A	472-R	4	12	22	6	0.5	4	5	19	1.39	15	5	ND	ND	66	1	9	2	17	0.02	0.03	1	73	0.05	261	0.08	64	0.32	0.01	0.01	3	1
A	473-R	3	94	16	30	0.1	18	18	172	3.63	18	5	ND	ND	8	1	6	4	93	0.16	0.12	7	79	1.29	387	0.02	105	1.58	0.01	0.01	1	1
A	474-R	9	21	16	2	0.3	13	9	28	1.73	58	5	ND	ND	4	1	5	11	14	0.01	0.01	9	91	0.28	545	0.01	178	0.49	0.01	0.01	1	1
A	475-R	6	9	3	8	0.2	4	6	24	1.56	34	5	ND	ND	7	1	2	3	9	0.01	0.01	6	83	0.16	596	0.01	175	0.49	0.04	0.01	1	1
A	476-R	8	6	3	2	0.2	4	2	22	2.25	60	5	ND	ND	12	1	2	2	4	0.01	0.01	1	140	0.02	361	0.01	232	0.13	0.03	0.01	1	1
A	89-G-477-R	5	2	1	1	0.1	4	1	19	0.32	2	5	ND	ND	1	1	2	2	5	0.01	0.01	1	126	0.02	155	0.01	98	0.11	0.02	0.01	1	1
A	89-G-478-R	8	10	5	4	0.1	6	2	30	1.06	30	5	ND	ND	12	1	6	4	7	0.02	0.02	1	147	0.02	120	0.01	110	0.11	0.02	0.01	1	1
A	479-R	25	546	4	43	0.1	33	30	300	3.79	2	5	ND	ND	34	1	3	6	140	0.45	0.17	13	102	2.02	539	0.32	194	2.27	0.02	0.01	1	3
A	480-R	26	378	1	36	0.5	14	20	286	3.70	2	5	ND	ND	6	1	2	6	87	0.12	0.09	7	73	0.94	215	0.12	37	1.63	0.01	0.01	1	1
A	481-R	12	27	1	60	0.1	29	25	335	9.66	18	5	ND	ND	7	1	2	2	74	0.15	0.14	1	84	1.39	51	0.05	1259	1.34	0.01	0.01	17	1
A	482-R	3	156	9	85	0.1	58	50	702	9.46	298	5	ND	ND	6	1	2	3	79	0.33	0.16	3	109	1.58	56	0.10	1937	1.48	0.01	0.01	1	2
A	483-R	91	64	5	15	0.1	32	26	66	6.15	117	5	ND	ND	4	1	4	2	14	0.12	0.10	1	151	0.17	35	0.01	1085	0.22	0.01	0.01	1	1
A	89-G-484-R	9	3606	6	68	2.6	9	5	304	0.97	3	5	ND	ND	33	1	2	8	38	0.93	0.13	3	80	0.12	22	0.12	23	0.53	0.02	0.01	1	1

CERTIFIED BY



ROSSBACHER LABORATORY LTD.

2225 S. Springer Ave., Burnaby,
British Columbia, Can. V5B 3N1
Ph: (604)299-6910 Fax: 299-6252


CERTIFICATE OF ANALYSIS

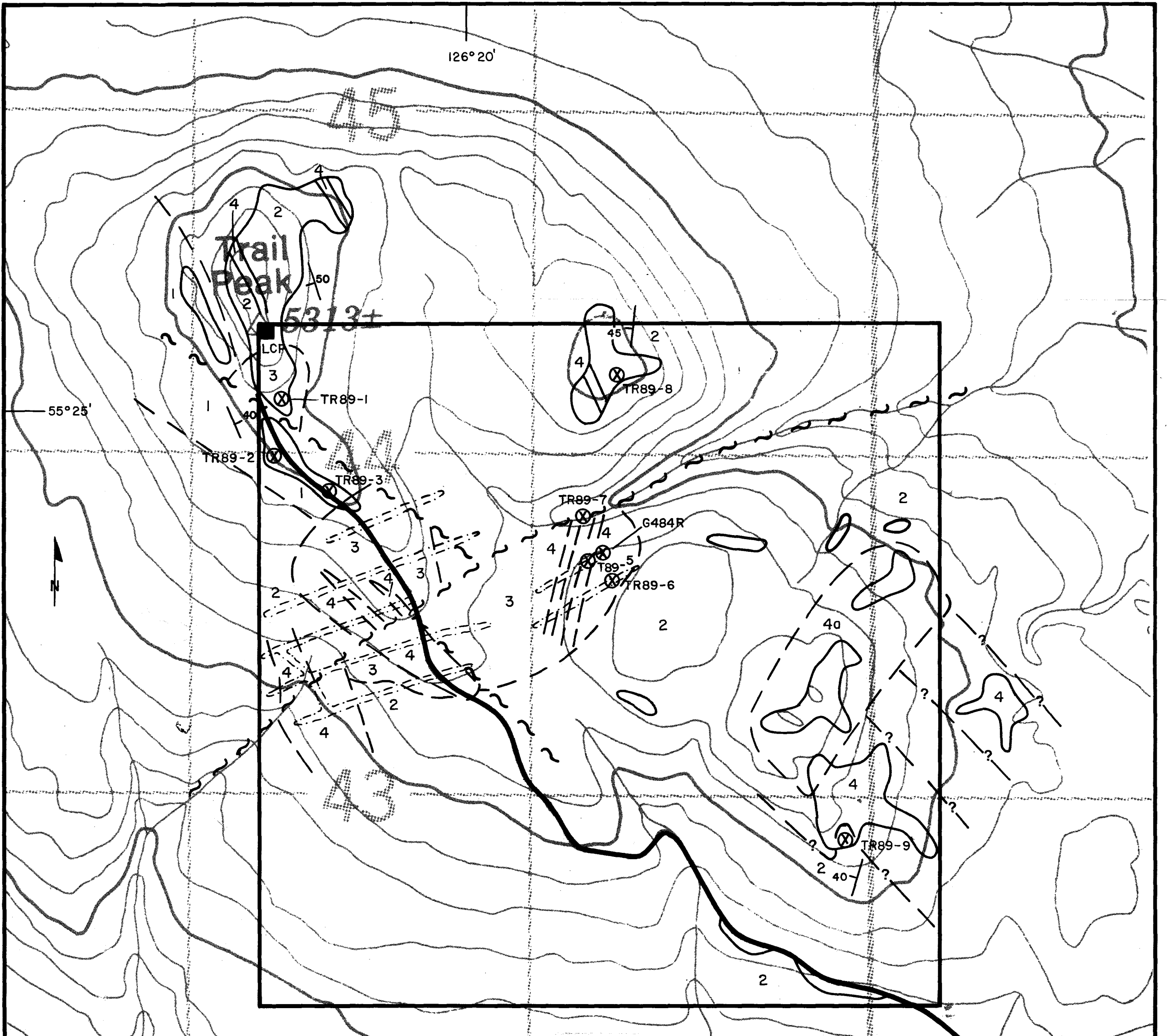
TO : TECK EXPLORATIONS LTD.
960-175 SECOND AVE.
KAMLOOPS, B.C.

CERTIFICATE # : 89263
INVOICE # : 90444
DATE ENTERED : 89-08-18
FILE NAME : TEO89263.I
PAGE # : 1

PROJECT : 1368
TYPE OF ANALYSIS : GEOCHEMICAL

PRE FIX	SAMPLE NAME	FPB Au
A	461-R	30
A	462-R	40
A	463-R	10
A	464-R	20
A	465-R	60
A	466-R	5
A	467-R	50
A	89-G-468-R	60
A	469-R	110
A	470-R	5
A	471-R	10
A	472-R	5
A	473-R	30
A	474-R	10
A	475-R	20
A	476-R	60
A	89-G-477-R	10
A	89-G-478-R	60
A	479-R	10
A	480-R	70
A	481-R	5
A	482-R	30
A	483-R	30
A	89-G-484-R	1160

CERTIFIED BY : 



TERTIARY (EOCENE)	— — — — —	GEOLOGICAL BOUNDARY
BABINE INTRUSIONS	~ ~ ~	FAULT
4 BIOTITE (HORNBLENDE) FELDSPAR PORPHYRY	○	OUTCROP AREA
4a - EXTRUSIVE EQUIVALENTS	— / —	BEDDING ATTITUDE
CRETACEOUS	— — — — —	TRENCHES
3 DIORITE, GRANODIORITE	⊗	ROCK SAMPLE SITE
JURASSIC		
HAZELTON GROUP		
2 SILTSTONE, SANDSTONE		
1 ANDESITE TUFF	0 500 1000	
	METRES	

GEOLOGICAL BRANCH
 ASSESSMENT REPORT
 19,557

PROFESSIONAL
 PROVINCE OF
 BRITISH COLUMBIA
 N.C. CARTER
 ENGINEER

FIGURE 4 - TRAIL CLAIM - GEOLOGY