

87-374 - 16134 6/87

MINISTRY OF ENERGY, MINES  
AND PETROLEUM RESOURCES  
Rec'd JUN 26 1987  
SUBJECT \_\_\_\_\_  
FILE \_\_\_\_\_  
VANCOUVER, B.C.

GEOCHEMICAL REPORT ON THE  
FORT 9 MINERAL CLAIM  
KAMLOOPS MINING DIVISION, B.C.

NTS 92P/9W  
Latitude 51° 32' North  
Longitude 120° 23' West

for

Owner: ELECTRUM RESOURCES LTD.  
Operator: VITAL PACIFIC RESOURCES LTD.  
230 Sheppard Avenue East  
Willowdale, Ontario  
M2N 3A9

by

C.J. WESTERMAN, Ph.D.  
Consulting Geologist  
1010 - 470 Granville Street  
Vancouver, B.C.  
V6C 1V5

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

16,134

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## SUMMARY

The Fort 9 claim is located 16 km northwest of Little Fort in south-central British Columbia. The claim is underlain by sedimentary and volcanic rocks of the Nicola Group. Two trenches on the claim expose pyrrhotite bearing siliceous diopside skarn. Nineteen rock chip samples indicate the presence of anomalous gold values in Trench No. 1. The best assay result obtained was 4.2 g/t Au across a one meter width. Further work is recommended.

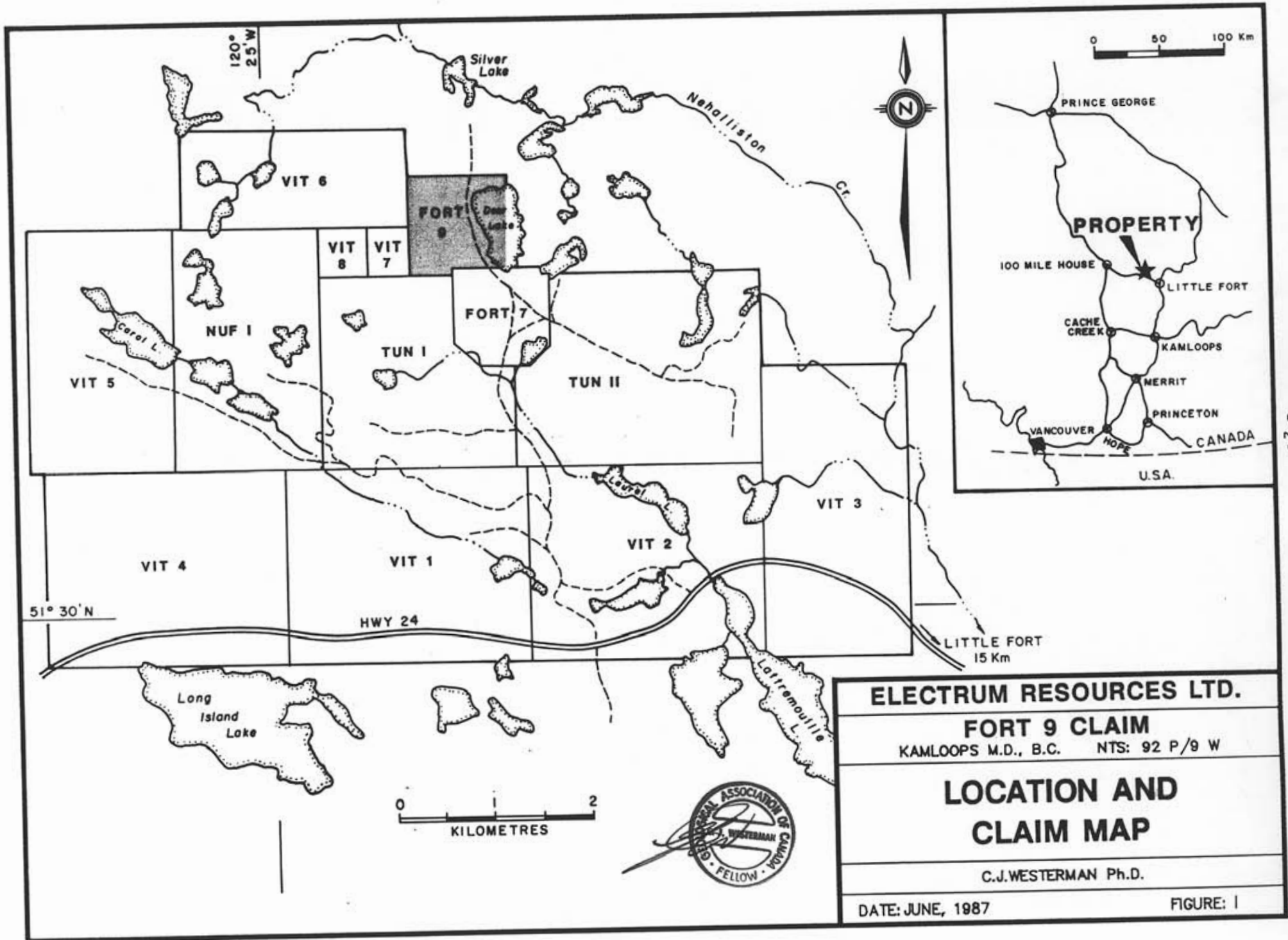
## INTRODUCTION

### Location, access, topography

The Fort 9 claim is located 16 km northwest of Little Fort in south-central British Columbia. Provincial Highway 24, which connects Little Fort with 100 Mile House, passes east-west approximately 1 km south of the claim. The claim is centred on latitude 51° 32' N, longitude 120° 23' W within NTS map area 92P/9W. Access from Highway 24 to Deer Lake is provided by a gravel forestry road and a single dirt road gives access to old trenches in the centre of the claim. Topography in the area comprises a subdued upland plateau with elevations ranging from 1,375 m to 1,450 m. The area of the claim was logged many years ago and vegetation currently consists of semi-mature second growth.

### Property definition

The Fort 9 mineral claim, record number 428, consists of four MGS units within the Kamloops Mining Division of British Columbia. Expiry date of the claim, prior to the current work filing, was June 25th, 1987. Sufficient work has recently been filed to keep the claim in good standing until June 25th, 1989. The registered owner of the claim is Electrum Resources Ltd.



## History

High grade gold skarns were initially discovered on ground adjacent to the Fort 9 claim in 1933. Several old trenches and a short adit on the adjacent ground date from this period. Reports by the Minister of Mines indicate that assays of several ounces per ton gold may be obtained from these old workings. In the late 1960's and early 1970's, the area was explored for porphyry copper deposits by Anaconda, United Copper Co. and Rio Tinto. During this period, the area of the Fort 9 claim was explored by soil geochemical (Cu, Mo, Pb, Zn) and magnetometer surveys. In 1977, Meridian Resources Ltd. performed limited soil geochemical (Cu, As) and magnetic surveys and drilled two percussion holes (455 m) on the Fort 9 claim. In 1980, Tunkwa Copper Mines Ltd. undertook soil geochemical (Cu, As, Au, Zn), magnetometer and VLF-EM surveys on a large group of claims which included the Fort 9 claim.

## Current Work Program

The current work program was undertaken on June 1st, 1987 by C.J. Westerman. The program consisted of detailed rock chip sampling of two existing trenches. Trench No. 1 was sampled with one meter chip samples and Trench No. 2 with two meter samples. The 19 rock samples were analyzed by Min-En Laboratories Ltd. for gold, silver, thallium, mercury, platinum, palladium, arsenic, aluminum, boron, bismuth, barium, beryllium, calcium, cadmium, cobalt, copper, iron, potassium, lithium, magnesium, manganese, molybdenum, sodium, nickel, phosphorous, lead, antimony, strontium, thorium, uranium, vanadium, zinc, gallium, tin, tungsten and chromium.

## References

Ager, C.A. & Smith, F.M. (1981) - Geophysical and Geochemical Survey - Fort Tun Property, for Tunkwa Copper Mines Ltd., company report.

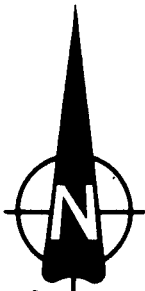
Symonds, D.F. & Montgomery J.H. (1977) - Report on the Deer Lake Copper-Gold Prospect, Kamloops M.D., B.C. on behalf of Meridian Resources Ltd., B.C.D.M. A.R. 6586.

The following B.C.D.M. Assessment Reports are pertinent to the area surrounding the Fort 9 claim: AR #905, 907, 910, 981, 1061, 1123, 1169, 1690, 2712, 3349, 3945, 4028, 4260, 4262, 4264, 4678, 4684, 4835, 4947, 5424, 5425, 5734, 6586.

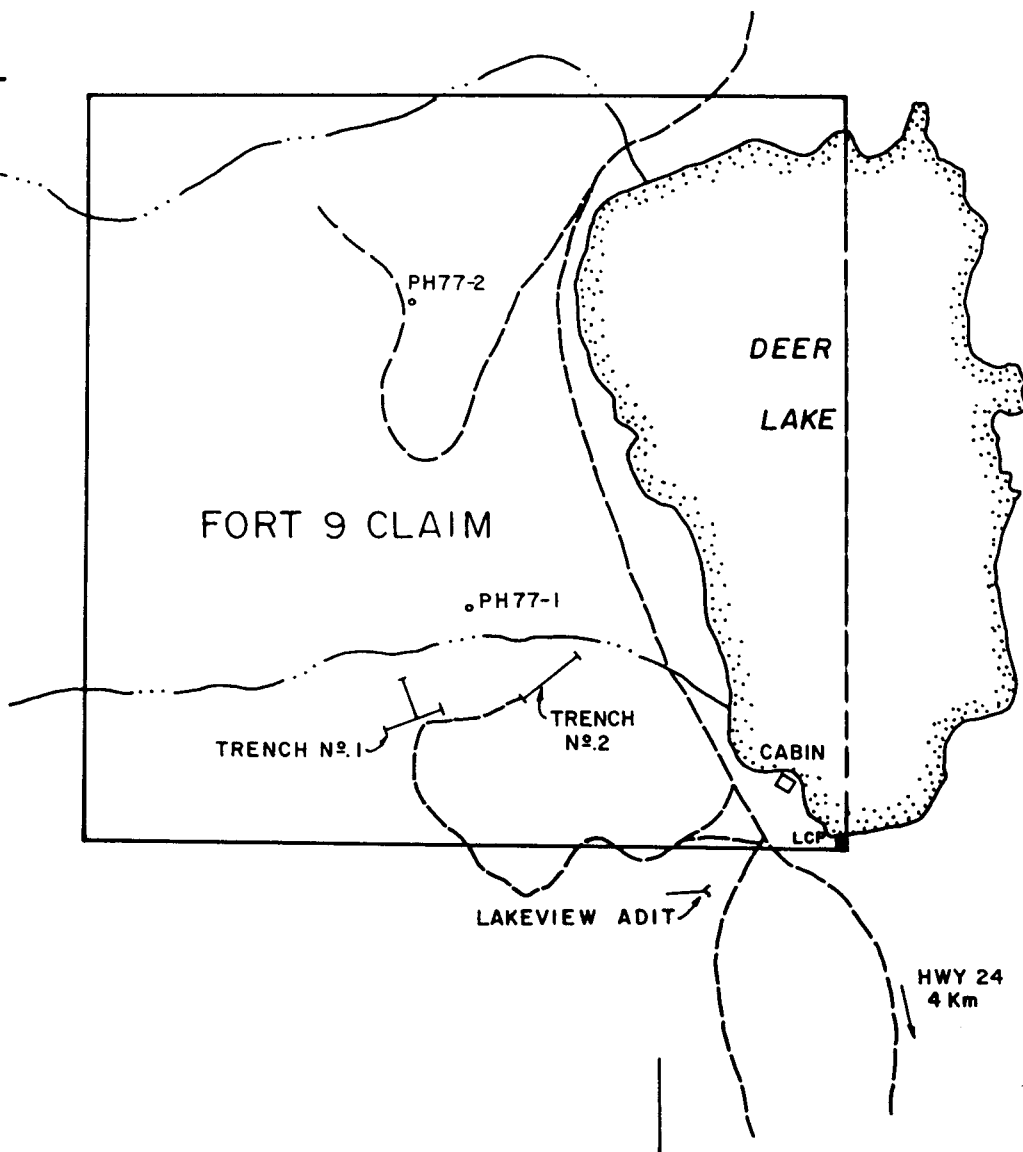
The mineralization adjacent to the Fort 9 claims is referred to in the following B.C. government publications: M.M.A.R. 1930 - p. 191, 1966 - p. 143, 1967 - p. 133. G.E.M. 1970 - p. 312, 1971 - p. 334, 1972 - p. 320, 1973 - p. 275, 1977 - p. E179.

## GEOLOGY AND MINERALIZATION

The Fort 9 claim is underlain by sedimentary and volcanic rocks of the Nicola Group of probable Upper Triassic - Lower Jurassic age. There is very little rock outcrop in the area of the claim other than that exposed by previous trenching programs. Sulphide-bearing skarns are exposed in the two trenches sampled in detail during the current work program. Medium to coarse grained siliceous diopside skarn contains heavily disseminated, medium to fine grained pyrrhotite which is locally massive. Minor chalcopyrite is present as medium grained interstitial blebs in some parts of the skarn. The skarn is relatively structureless with irregular boundaries between sulphide rich and sulphide poor portions. In Trench No. 1, there is a suggestion of an east-west strike, whereas in Trench No. 2 the lithologic boundaries tend to be north-south.



120° 23' W



51° 32' N



<b>ELECTRUM RESOURCES LTD.</b>	
<b>FORT 9 CLAIM</b>	
KAMLOOPS M.D., B.C. NTS: 92 P/9 W	
<b>TRENCH LOCATION MAP</b>	
C.J.WESTERMAN Ph.D.	
DATE: JUNE, 1987	FIGURE: 2

## GEOCHEMISTRY

Seventeen continuous rock chip samples and two grab samples were collected from the two trenches. Geochemical analyses were performed by Min-En Laboratories. Gold, platinum and palladium were analysed by fire assay, mercury by flameless A.A., and thallium by aqua-regia MIBK extraction. The following 31 elements analyzed by I.C.P. are presented in groups of similar detection limits (D.L.):

D.L. 0.1 ppm: Ag, Be\*, Cd, V

D.L. 1 ppm: As, B\*, Ba\*, Bi, Co, Cr, Cu, Ga, Mn, Mo, Ni, Pb, Sb, Sr\*, Th, U, W, Zn

D.L. 10 ppm: Al\*, Ca\*, Fe\*, K\*, Li\*, Mg\*, Na\*, P\*

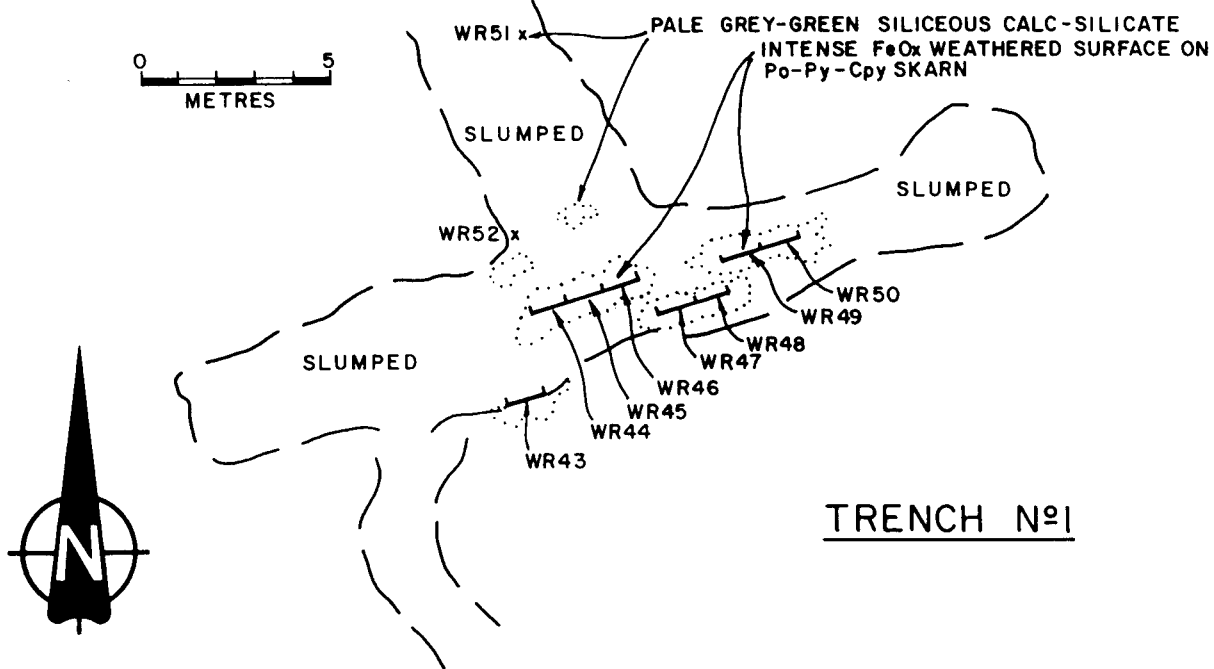
Elements marked by an asterisk may be subject to incomplete dissolution.

Results of the geochemical analyses are presented in Appendix 3, sample locations are plotted on Figure 3.

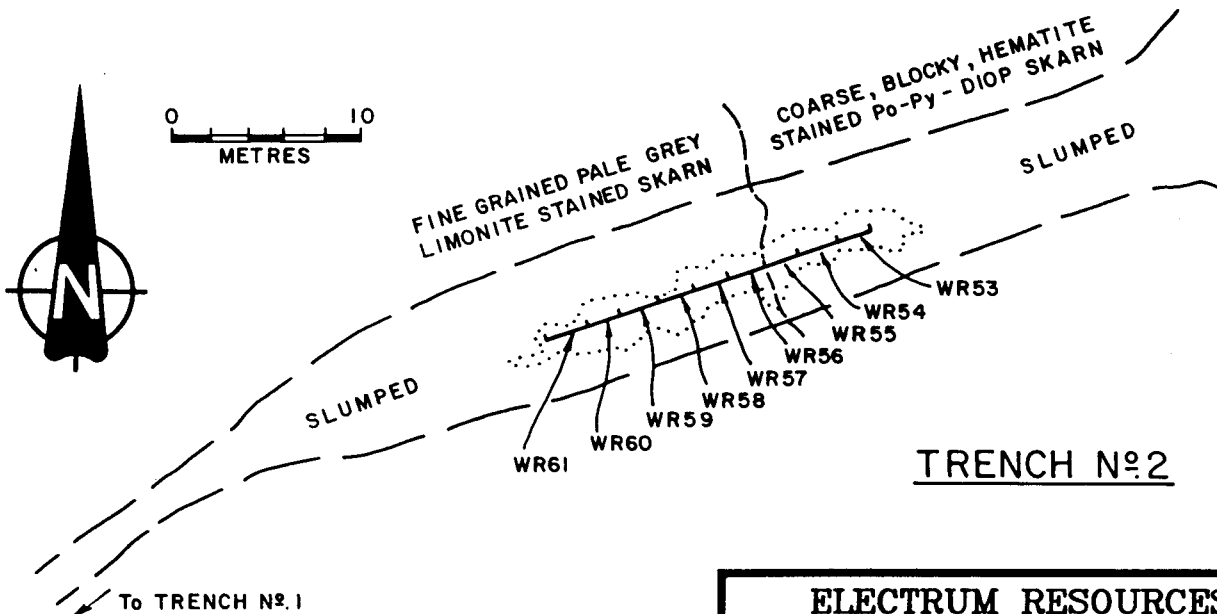
The results indicate that the skarn exposed in Trench No. 1 contains moderately anomalous amounts of gold over a 5 meter interval. The best value obtained across a 1 meter interval was 4.2 g/t Au. In contrast, the 18 meters of skarn exposed in Trench No. 2 contains only high background gold values (50 - 200 ppb).

Application of rigorous statistical techniques to the data is not warranted due to the relatively low total sample set. However, certain generalizations can be made. Higher gold values appear to be correlative with above background values for Ag, As, Cu, Be, Bi, Cd, Co, Mo, Sb, Sn and Zn.





SAMPLES WR43-50 ARE 1 METRE CHIP SAMPLES



TRENCH No. 2

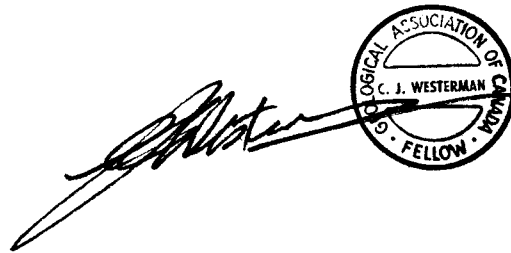
SAMPLES WR53-61 ARE 2 METRE CHIP SAMPLES



ELECTRUM RESOURCES LTD.	
FORT 9 CLAIM	
KAMLOOPS M.D., B.C. NTS: 92 P/9 W	
SAMPLE LOCATION MAP	
C.J.WESTERMAN Ph.D.	
DATE: JUNE, 1987	FIGURE: 3

CONCLUSIONS AND RECOMMENDATIONS

The Fort 9 claim is underlain by pyrrhotite bearing skarn units which locally contain significantly anomalous gold values. Further detailed exploration is recommended.

A handwritten signature in black ink, appearing to read 'C.J. Westerman', is written over a circular professional seal. The seal is from the Geological Association of Canada and contains the text 'GEOLOGICAL ASSOCIATION OF CANADA', 'C. J. WESTERMAN', and 'FELLOW'.

June 15th, 1987  
Vancouver, B.C.

C.J. Westerman, Ph.D., F.G.A.C.  
Consulting Geologist

APPENDIX 1

STATEMENT OF EXPENDITURES

FORT 9 CLAIM



Record No. 428

Kamloops Mining Division, B.C.

Field work undertaken June 1st, 1987

C. Westerman, Consulting Geologist 13 hrs at \$50/hr		\$ 650.00
Return airfare, Vancouver-Kamloops		165.00
Truck rental, 1 day		56.00
Equipment, food, gas		45.00
Drafting, secretarial, report costs		55.00
Assays and analyses		629.00
19 sample prep at \$3.50	\$ 66.50	
19 I.C.P. 31 element at \$6.50	123.50	
19 Geochem Tl, Hg at \$9.00	171.00	
19 Geochem Au, Pt, Pd at \$12.00	228.00	
5 assays Au at \$8.00	40.00	
TOTAL EXPENDITURES		<u>\$ 1,600.00</u>

June 15th, 1987  
Vancouver, B.C.



C.J. Westerman, Ph.D., F.G.A.C.  
Consulting Geologist

APPENDIX 2

STATEMENT OF QUALIFICATIONS

I, Christopher John Westerman, hereby certify that:

1. I am an independent Consulting Geologist with an office at 1010 -470 Granville Street, Vancouver, British Columbia, V6C 1V5.
2. I am a graduate of London University, England with the degree of Bachelor of Science in Geology (1967); of the University of British Columbia with the degree of Master of Science in Geology (1970) and of McMaster University, Ontario with the degree of Doctor of Philosophy in Geology (1977).
3. I am a Fellow of the Geological Association of Canada (F.525) and a member of the Canadian Institute of Mining and Metallurgy.
4. I have practised my profession in North America since 1967, having worked as employee and consultant for several International Mining Corporations and Junior Resource Companies.
5. This report is based upon a personal examination of all available company and government reports pertinent to the subject property, and upon field work undertaken on the property June 1st, 1987.

June 15th, 1987  
Vancouver, B.C.

C.J. Westerman, Ph.D.  
Consulting Geologist

COMPANY: TERRAC RESOURCE MANAGEMENT

MIN-EN LABS ICP REPORT

(ACT:631) PAGE 1 OF 3

PROJECT NO: 8706 HAIDA

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

FILE NO: 7-516

ATTENTION: C.J.WESTERMAN

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

\* TYPE ROCK GEOCHEM \*

DATE: JUNE 8, 1987

VALUES IN PPM ↓	AG	AL	AS	B	BA	BE	BI	CA	CD	CO	CU	FE
87WR43A	4.7	6100	145	26	286	29.3	69	2730	33.5	37	278	504360
87WR44	3.9	23080	59	18	229	13.2	41	46720	19.3	42	861	259170
87WR45	3.5	20680	40	17	247	12.0	46	50140	17.5	29	1590	251540
87WR46	4.1	8430	92	14	231	17.6	52	24030	21.9	55	1004	296910
87WR47	4.7	9260	92	13	163	15.9	47	23990	22.8	118	732	264560
87WR48	3.1	11540	22	10	119	9.1	42	40680	12.4	73	1866	197810
87WR49	2.4	19070	17	12	93	6.0	25	41190	11.4	59	897	176880
87WR50	2.3	19660	9	16	46	2.4	19	98230	5.3	14	902	125320
87WR51	1.4	22270	5	16	78	.1	5	12650	3.1	20	198	198340
87WR52	1.7	13320	9	9	47	1.6	10	21800	4.9	12	504	126990
87WR53	3.4	16150	64	17	146	11.9	39	84930	21.2	22	534	259180
87WR54	3.1	16270	47	14	139	8.6	32	63080	14.3	26	637	220480
87WR55	2.4	19770	91	14	92	6.0	24	110060	12.8	22	785	179200
87WR56	2.1	20590	35	13	106	4.4	16	78570	8.8	12	214	143320
87WR57	2.3	18760	66	14	115	6.8	19	76590	14.3	12	193	179380
87WR58	2.7	22050	42	16	197	7.0	22	96520	13.3	14	289	196140
87WR59	3.0	11250	79	13	205	11.3	29	44580	16.8	16	243	245350
87WR60	2.3	8890	65	10	125	9.9	26	38020	15.1	14	266	209160
87WR61	2.5	16860	38	12	227	5.8	19	75260	12.4	19	414	168050

COMPANY: TERRANE RESOURCE MANAGEMENT

MIN-EN LABS ICP REPORT

(ACT:631) PAGE 2 OF 3

PROJECT NO: 8706 HAIDA

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FILE NO: 7-516

ATTENTION: C.J.WESTERMAN

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

\* TYPE ROCK GEOCHEM \*

DATE: JUNE 8, 1987

(VALUES IN PPM)	K	LI	MG	MN	MO	NA	NI	P	PR	SB	SR	TH
87WR43A	150	1	5320	698	59	80	19	10	21	143	115	8
87WR44	1450	4	12760	1310	31	70	1	1010	45	66	104	1
87WR45	590	5	11600	1078	26	80	11	970	21	63	90	3
87WR46	560	1	5300	507	40	60	1	730	31	87	89	2
87WR47	120	1	3550	521	34	40	14	790	43	81	73	4
87WR48	140	2	4530	602	20	60	4	970	21	50	63	1
87WR49	200	5	8680	951	15	70	9	1250	11	34	67	1
87WR50	60	3	6170	1518	6	40	2	1120	16	17	49	1
87WR51	1170	18	16560	360	1	310	3	580	13	1	46	1
87WR52	160	3	4060	439	3	120	15	1140	13	16	57	1
87WR53	150	1	3320	1692	28	70	16	3890	33	67	80	2
87WR54	500	1	3070	1551	19	70	24	2390	32	50	67	1
87WR55	180	1	3000	2202	15	50	23	3360	25	37	61	2
87WR56	480	2	3670	2102	11	90	5	1970	4	26	47	1
87WR57	480	3	4550	1565	20	140	9	5180	17	40	66	1
87WR58	490	2	4110	2262	22	90	2	2800	24	40	63	2
87WR59	430	2	3740	905	32	100	10	2810	21	63	73	3
87WR60	200	1	2850	741	22	100	7	4640	33	56	67	1
87WR61	290	2	3130	1425	19	80	4	4220	4	34	60	1

COMPANY: TERRANE RESOURCE MANAGEMENT

MIN-EN LABS ICP REPORT

(ACT:631) PAGE 3 OF 3

PROJECT NO: 8706 HAIDA

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

FILE NO: 7-516

ATTENTION: C.J.WESTERMAN

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

\* TYPE ROCK GEOCHEM \* DATE: JUNE 8, 1987

VALUES IN PPM	U	V	ZN	GA	SN	W	CR
87WR43A	4	196.4	123	6	147	38	6
87WR44	5	119.2	90	13	78	43	2
87WR45	4	151.0	67	11	68	33	12
87WR46	3	108.6	66	4	105	14	13
87WR47	1	103.4	46	6	102	17	1
87WR48	2	91.9	47	3	57	21	4
87WR49	3	109.2	51	2	33	9	1
87WR50	1	153.6	34	3	16	11	27
87WR51	1	90.5	65	3	8	12	11
87WR52	1	54.5	43	2	3	7	45
87WR53	5	95.0	51	2	81	17	86
87WR54	1	96.1	46	2	52	2	49
87WR55	2	92.2	42	2	40	20	80
87WR56	4	67.1	36	2	26	21	77
87WR57	4	93.0	47	2	37	11	73
87WR58	2	106.0	44	2	36	13	98
87WR59	4	108.3	51	2	53	28	46
87WR60	2	99.4	38	2	40	2	56
87WR61	3	94.2	38	2	26	4	82

MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

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

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: TERRANE RESOURCE MANAGEMENT

File: 7-516/P1

Project: 8706 HAIDA

Date: JUNE 8/87

Attention: C. J. WESTERMAN

Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	TL PPB	HG PPB	AU-FIRE PPB	PT-FIRE PPB	PD-FIRE PPB
87WR43A	10	45	296	26	1
87WR44	15	30	535	14	1
87WR45	5	15	1125	6	7
87WR46	10	20	1415	1	1
87WR47	5	50	4070	25	3
87WR48	5	50	935	1	2
87WR49	5	15	243	22	1
87WR50	5	45	93	33	1
87WR51	5	15	266	1	3
87WR52	5	10	10	1	1
87WR53	5	5	110	28	14
87WR54	5	10	122	1	3
87WR55	5	10	107	1	1
87WR56	10	25	77	39	15
87WR57	5	30	58	7	13
87WR58	15	50	42	1	2
87WR59	5	20	57	8	2
87WR60	5	35	46	60	1
87WR61	5	35	207	3	1

Certified by



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**MIN-EN LABORATORIES LTD.**

*Specialists in Mineral Environments*

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

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

TELEX: VIA USA 7601067 UC

**Certificate of ASSAY**

Company: TERRANE RESOURCE MANAGEMENT

File: 7-516/P1

Project: 8706 HAIDA

Date: JUNE 8/87

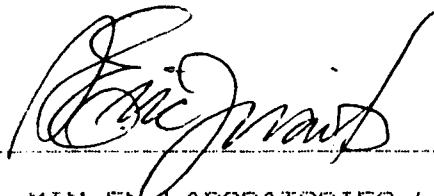
Attention: C. J. WESTERMAN

Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON
87WR44	.59	0.017
87WR45	1.56	0.046
87WR46	1.63	0.048
87WR47	4.20	0.123
87WR48	.99	0.029

Certified by



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