



Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT  
TITLE PAGE AND SUMMARY

PROJECT FILE

GEOCHEMICAL	TYPE OF REPORT/SURVEY(S)	TOTAL COST
		\$605.50

AUTHOR(S) T.E.Lisle, P.Eng. SIGNATURE(S)

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED March /86 YEAR OF WORK 85/86

PROPERTY NAME(S) T.E.L. 1-4

COMMODITIES PRESENT Copper, silver.

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN 164

MINING DIVISION Nanaimo NTS 92F/1E

LATITUDE 49°06'18" LONGITUDE 124°04'

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIRE 2 (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved)]:

T.E.L.1 to 4 inclusive

OWNER(S)

(1) T.E.Lisle, P.Eng. (2)

MAILING ADDRESS

145 West Rockland Rd.  
North Vancouver, B.C.

OPERATOR(S) (that is, Company paying for the work)

(1) As above (2)

MAILING ADDRESS

As above.

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):

Silicified breccia zone with highly altered basalt or dacite is present at the contact of Karmutson basalts (Triassic) and the Comox Formation of the Nanaimo Group. Bornite, Chalcocite, tetrahedrite, corynite and native arsenic are reported. Pyrite is also evident. The nature of silicification indicates emplacement in a low temperature epithermal environment, Calcite and hematite are also present.

REFERENCES TO PREVIOUS WORK

Laanela H. (Gunnex-1964); Carson, D.J. CIMM Bulletin, May, 1969.  
Lisle, T.E. Assessment Reports, 1984 and 1985.

TYPE WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS		COST APPORTIONED
<b>GEOLOGICAL (scale, area)</b>				
Ground	.....	.....		.....
Photo	.....	.....		.....
<b>GEOPHYSICAL (line-kilometres)</b>				
<b>Ground</b>				
Magnetic	.....	.....		.....
Electromagnetic	.....	.....		.....
Induced Polarization	.....	.....		.....
Radiometric	.....	.....		.....
Seismic	.....	.....		.....
Other	.....	.....		.....
<b>Airborne</b>				
<b>GEOCHEMICAL (number of samples analysed for ....)</b>				
Soil	.....	.....		.....
Silt	.....	.....		.....
Rock	.. 10 for Au and Ag. ....	T.E.L. 1 to 4.		605.50
Other	.....	.....		.....
<b>DRILLING (total metres; number of holes, size)</b>				
<b>Core</b>				
Core	.....	.....		.....
<b>Non-core</b>				
Non-core	.....	.....		.....
<b>RELATED TECHNICAL</b>				
Sampling/assaying	.....	.....		.....
Petrographic	.....	.....		.....
Mineralogic	.....	.....		.....
Metallurgic	.....	.....		.....
<b>PROSPECTING (scale, area)</b>				
<b>PREPARATORY/PHYSICAL</b>				
Legal surveys (scale, area)	.....	.....		.....
Topographic (scale, area)	.....	.....		.....
Photogrammetric (scale, area)	.....	.....		.....
Line/grid (kilometres)	.....	.....		.....
Road, local access (kilometres)	.....	.....		.....
Trench (metres)	.....	.....		.....
Underground (metres)	.....	.....		.....
				<b>TOTAL COST</b> ..605.50 .....

FOR MINISTRY USE ONLY	NAME OF PAC ACCOUNT	DEBIT	CREDIT	REMARKS:
Value work done (from report) .....	.....	.....	.....	
Value of work approved .....	.....	.....	.....	
Value claimed (from statement) .....	.....	.....	.....	
Value credited to PAC account .....	.....	.....	.....	
Value debited to PAC account .....	.....	.....	.....	
Accepted ..... Date	Rept. No. ....			Information Class .....

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PROJECT FILE

MAPS

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## INTRODUCTION

### PHYSIOGRAPHY, LOCATION, ACCESS.

The T.E.L. 1 to 4 two post mineral claims are near the southeast end of Blackjack Ridge some 13 kilometers southwest of the city of Nanaimo on eastern Vancouver Island. Lat.  $49^{\circ}06'$ ; Long.  $124^{\circ}04'$ , NTS 92F/1E.

The terrain has low to moderate relief, and the prospect is approximately 460 meters above sea-level. Much of the area has been logged and re-seeded, consequently a number of secondary logging roads provide direct access to the claims.

### PROPERTY.

The property is comprised of the T.E.L. 1 to 4 two-post mineral claims, record numbers 1345 to 1348 inclusive. The claims were located in February, 1983 and were recorded in the Nanaimo Mining Division on March 15, 1983.

### HISTORY.

The property was initially staked by MacMillan and Godfrey in 1962. An area of approximately 100 by 200 feet was trenched at the time. The claims expired and the ground was relocated as the Bear claims by Gunnex in 1963. That company conducted preliminary geological, geochemical and magnetic surveys and trenching before allowing the claims to revert.

Gary Mines staked the prospect in 1971 and carried out 14.9 line miles of geochemical survey and 300 square feet of trenching. The ground was subsequently staked by Mr. Kowall in 1979 and by Specogna Minerals Ltd in 1982.

### WORK PROGRAM.

Preliminary soil geochemical survey work was carried out on the claims in 1984, and magnetic profiles covering the main trench area in 1985. On October 8, 1985, the author spent the day at the property prospecting and collecting rock samples for analysis. Ten rock samples were collected and analyzed geochemically for gold and silver.

## GEOLOGY.

The prospect is located in an area of northeasterly faults that appear to locally off-set formations that trend northwest. Intrusions are evident mainly to the west. (Figure 3).

The MacMillan breccia was described by Carson as 'A breccia zone formed near the Nanaimo-Karmutson unconformity, that may be a tectonic breccia'. The breccia occurs in an area of low relief and is poorly exposed. It is a buff coloured siliceous zone of unknown size, shape or origin. Quartz, chalcedony, ankerite ? calcite and hematite are locally abundant. The sulphide content is low and occurs in a siliceous matrix or in widespread stockwork fractures. The sulphides include tetrahedrite, bornite, chalcocite, corynite, pyrite and minor chalcopyrite. Native arsenic is reported but has not been noted by the author.

The zone occurs at the contact of the Triassic aged greenstones of the Karmutson Formation and the overlying sedimentary rocks of the Cretaceous ? or Tertiary Comox formation. The Comox rocks are dark green or locally bleached, and contain pebbles and broken layers ? of calcareous material.

## GEOCHEMISTRY.

Ten rock samples were collected from the area of interest. The samples included a representation of the Karmutsen and Comox formations, and of the breccia material. The location of the sample sites is shown on figure 4 accompanying this report.

The samples were shipped to Acme Analytical Laboratory in Vancouver where they were crushed and screened. The -80 mesh fraction was analyzed for gold and silver by the methods outlined on assay reports.

## SAMPLE RESULTS.

The samples yielded a low range of gold and silver content with the exception of R-7 that graded 16.6 ppm silver. This sample was of the same material as that sampled in 1985, #12520 that assayed 8.9% copper and 0.60 opt silver, and 0.001 opt gold.

CONCLUSIONS.

The results of the rock sampling are not particularly encouraging with respect to precious metals. The siliceous zone should be traced and sampled along trend to determine whether other areas have better values.

MARCH 24, 1986

T.E.Lisle, P.Eng.

APPENDIX 1

ME ANALYTICAL LABORATORIES LTD.  
 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
 PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: MAR 5 1986

DATE REPORT MAILED: 12 March 86

**GEOCHEMICAL ICP ANALYSIS**

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.

- SAMPLE TYPE: ROCK CHIPS AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *B. Jiang for* DEAN TOYE. CERTIFIED B.C. ASSAYER.

FILE # 86-0268

PAGE 1

SAMPLE#	Ag FFM	Au* FFB
TEL R-1	.1	2
TEL R-2	.1	2
TEL R-3	.2	3
TEL R-4	.1	3
TEL R-5	.1	4
TEL R-6	.4	3
TEL R-7	16.6	4
TEL R-8	.1	3
TEL R-9A	.1	9
TEL R-9B	.4	4
STD C/AU-0.5	7.1	490

NOTES : Rock Samples.

- R-1 Hematitic, calcareous fragments to 1 cm. , hematitic, buff coloured.
- R-2 Orange-weathering fragmental, bedded ?. Mn stained.
- R-3 Hematitic breccia locally resembles coarse tuff. Strong hematitic layers? Orange weathering, abundant carbonate (ankerite)? veinlets, Bedded ? no vis. sulphide.
- R-4 Orange weathering, resembles altered intrusive and fine breccia. Commonly buff to hematitic coloured, calcareous.
- R-5 Dark green Karmutson greenstone, fine-grained, + 0.5% pyrite.
- R-6 Grey-buff siliceous chalcedonic breccia, fine hematitic and carbonate fractures.
- R-7 Vuggy chalcedonic breccia, abundant dark sulphide.
- R-8 Green gritty to pebbly sedimentary rock. This rock has broken layers? of highly calcareous material that are locally pebbly.
- R-9A Grey to buff siliceous breccia with 1% to 3% disseminated pyrite that appear to be related to white siliceous zones.
- R-9B Orange weathering material included well-banded layers of grey chalcedony and rims around buff or hematitic angular fragments to 1 cm. Rhyolitic ?.

APPENDIX 3

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STATEMENT OF EXPENSES.

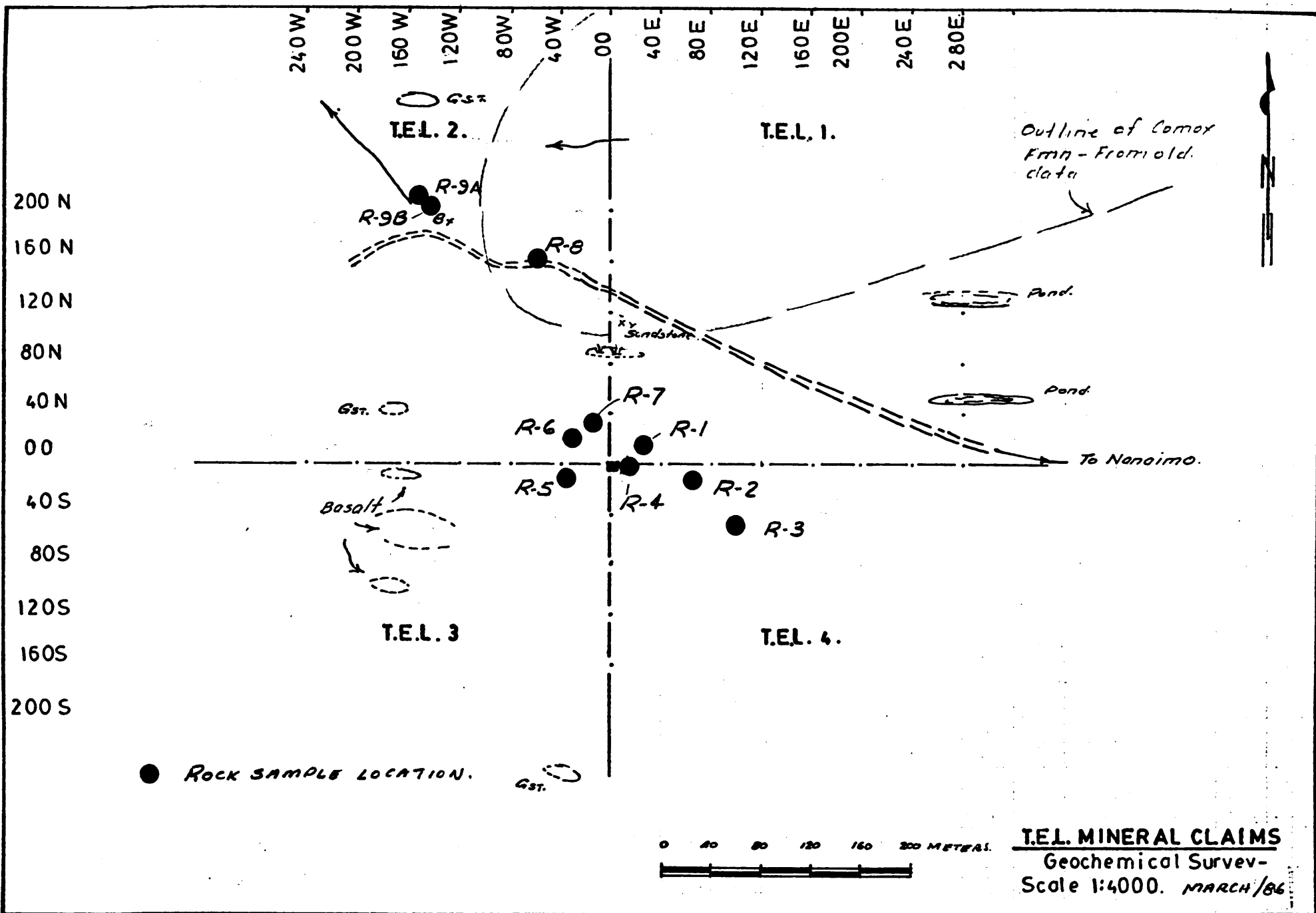
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Wages	\$250.00
Transportation.	30.00
Ferry.	38.00
Meals.	15.00
Analyses.	87.50
Misc.	35.00
Report	150.00
	<hr/>
	\$ 605.50
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T.E.Lisle, P.Eng.







MINERAL ACT

STATEMENT OF EXPLORATION AND DEVELOPMENT

SUB-RECORDER  
 RECEIVED  
 MAR 11 1986  
 VANCOUVER, B.C.

I, THOMAS E. LISLE (Name) Agent for \_\_\_\_\_  
145 WEST ROCKLAND RD. (Address) \_\_\_\_\_  
NORTH VANCOUVER, B.C. (Address) \_\_\_\_\_  
V7N-2V8 (Postal Code) 987-0821 (Telephone Number) \_\_\_\_\_  
 Valid subsisting F.M.C. No. 221375 Valid subsisting F.M.C. No. \_\_\_\_\_

STATE THAT

1. I have done, or caused to be done, work on the T.E.L. 1 to 4 mineral claims  
 \_\_\_\_\_ Claim(s)  
 Record No(s) 1345 to 1348  
 Situate at BLACKJACK RIDGE in the NANAIMO Mining Division,  
 to the value of at least \$605.50 dollars. Work was done from the 8 day  
 of OCTOBER 19 85, to the 11th day of March 19 86

2. The following work was done in the 12 months in which such work is required to be done:

[COMPLETE APPROPRIATE SECTION(S) A, B, C, D, FOLLOWING]

A. PHYSICAL

(Trenches, open cuts, adits, pits, shafts, reclamation, and construction of roads and trails.)

(Give details as required by section 13 of regulations.)

		COST
TOTAL PHYSICAL		

I wish to apply \$ \_\_\_\_\_ of physical work to the claims listed below.  
 (State number of years to be applied to each claim, its month of record, and identify each claim by name and record number.)  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

B. PROSPECTING

(Details in report submitted as per section 9 of regulations.)  
 (The itemized cost statement must be part of the report.)

COST

I wish to apply \$ \_\_\_\_\_ of this prospecting work to the claims listed below.  
 (State number of years to be applied to each claim, its month of record, and identify each claim by name and record number.)  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

(For C and D sections, please turn over.)

C. DRILLING (Details in report submitted as per section 8 of regulations.) (The itemized cost statement must be part of the report.)	COST	
D. GEOLOGICAL, GEOPHYSICAL, GEOCHEMICAL (Details in report submitted as per section 5, 6, or 7 of regulations.) (The itemized cost statement must be part of the report.) (State type of work in space below.)	GEOCHEMICAL	
	\$ 605.00	
TOTAL OF C AND D		605.00

*REPORT TO FOLLOW*

Where the above statement requires a technical report as per section C of the Mineral Act Regulations, the author of the report shall complete both copies of the ASSESSMENT REPORT TITLE PAGE AND SUMMARY form and include the completed forms in the assessment reports.

Who was the operator (provided the financing)? Name As Above  
Address \_\_\_\_\_

Portable Assessment Credits (PAC) Withdrawal Request		AMOUNT
Amount to be withdrawn from owner(s) or operator(s) account(s):		
Name of Owner/Operator		
[May be no more than 30 per cent of value of the approved work submitted as assessment work in C and (or) D.]	1. _____	
	2. _____	
	3. _____	
TOTAL WITHDRAWAL		
TOTAL OF C AND (OR) D PLUS PAC WITHDRAWAL		

I wish to apply \$ \$500.00 of this work to the claims listed below.

(State number of years to be applied to each claim, its month of record, and identify each claim by name and record number.)

T.E.L. 1 1345  
T.E.L. 2 1346 1 year at \$100.00; 1 year at \$200.00 = \$300.00  
T.E.L. 3 1347 1 year at 100.00 \$100.00  
T.E.L. 4 1348 1 year at 100.00 \$100.00  
Work done on all claims.

Value of work to be credited to portable assessment credit (PAC) account(s).  
(May only be credited from the approved value of C and (or) D not applied to claims.)

Name	AMOUNT
1. <u>T.E.L. 1345</u>	<u>105.00</u>
2. _____	
3. _____	

I, the undersigned Free Miner, hereby acknowledge and understand that it is an offence to knowingly make a false statement or provide false information under the *Mineral Act*. I further acknowledge and understand that if the statements made, or information given, in this Statement of Exploration and Development are found to be false and the exploration and development has not been performed, as alleged in this Statement of Exploration and Development, then the work reported on this statement will be cancelled and the subject mineral claim(s) may, as a result, forfeit to and vest back to the Province.

*J E Lisle*  
Signature of Applicant