GEOCHEMICAL REPORT

on the

T.E.L. 1-4 CLAIMS

Nanaimo Mining Division

N.T.S. 92F/1E

49°06.3' N 124°04' W

OWNER: T. E. Lisle

OPERATOR: Chevron Canada Resources Limited

AUTHOR: S. G. McAllister

March 6, 1987

Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT
TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S)	TOTAL COST
GEOCHEMICAL	$829.39

AUTHOR(S) S. G. McAllister SIGNATURE(S) S. G. McAllister

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED YEAR OF WORK 1986

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 1345 (1 unit) T.E.L. 4 1348 (1 unit)
T.E.L. 2 1346 (1 unit)
T.E.L. 3 1347 (1 unit)

OWNER(S)

(1) T. E. Lisle (2)

MAILING ADDRESS

145 West Rockland Rd.,
North Vancouver, B. C. V7N 2V8

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

(1) Chevron Canada Resources Limited (2)

MAILING ADDRESS

1900 - 1055 W. Hastings St.,
Vancouver, B. C. V6E 2E9

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

A silicified and highly carbonatized as well as hematitized breccia zone is present in Triassic Karmutsen basalts near the unconformable contact with the overlying Cretaceous Nanaimo Group clastic sediments. The breccia zone is approximately 102 m x 18 m in size and the following minerals have been reported: chalcopyrite, bornite, tetrahedrite and chalcocite.

REFERENCES TO PREVIOUS WORK Carson, D. J., CIM Bulletin, May, 1969
Lisle, T. E. Assessment Reports, 1984 and 1985

(over)

TABLE OF CONTENTS

INTRODUCTION

The author spent October 22, 1986 on the property collecting soil samples across the unconformable contact between the Triassic Karmutsen basalts and the overlying Cretaceous Nanaimo Group clastic sediments. The purpose of this traverse was to determine if there is a significance difference in the geochemistry between the soils derived from the two rock types. To date no alteration or mineralization has been observed within the sediments.

LOCATION, ACCESS AND TOPOGRAPHY

The T.E.L. 1-4 mineral claims are located approximately 13 kilometers southwest of Nanaimo on Vancouver Island (Figure 1) and are easily accessed via logging roads which continue onto the center of the claim block. Under dry conditions a 2-wheel drive vehicle is adequate for access.

The claims are approximatel 460 m above sea level in an area of low to moderate relief that has been logged, replanted and recently thinned.

CLAIM STATUS

The work outlined in this report was conducted by Chevron Canada Resources Limited on the following claims (Figure 2) owned by T.E. Lisle of North Vancouver;

Claim	Record Number	Units	Record Date	Expiry Date (before submission of this report)
T.E.L. 1	1345	1	March 15,1983	March 15,1987
T.E.L. 2	1346	1	March 15,1983	March 15,1988
T.E.L. 3	1347	1	March 15,1983	March 15,1987
T.E.L. 4	1348	1	March 15,1983	March 15,1987

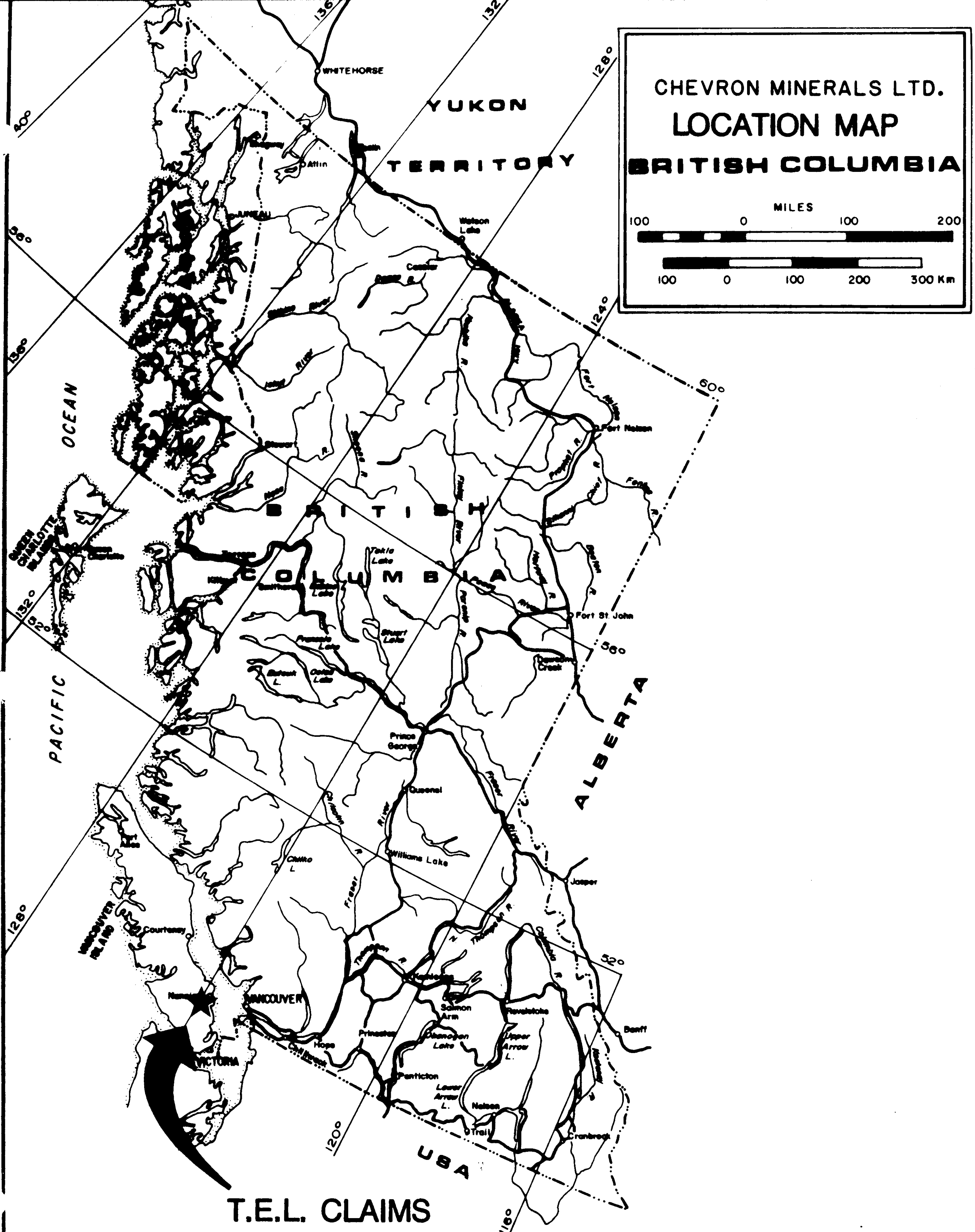
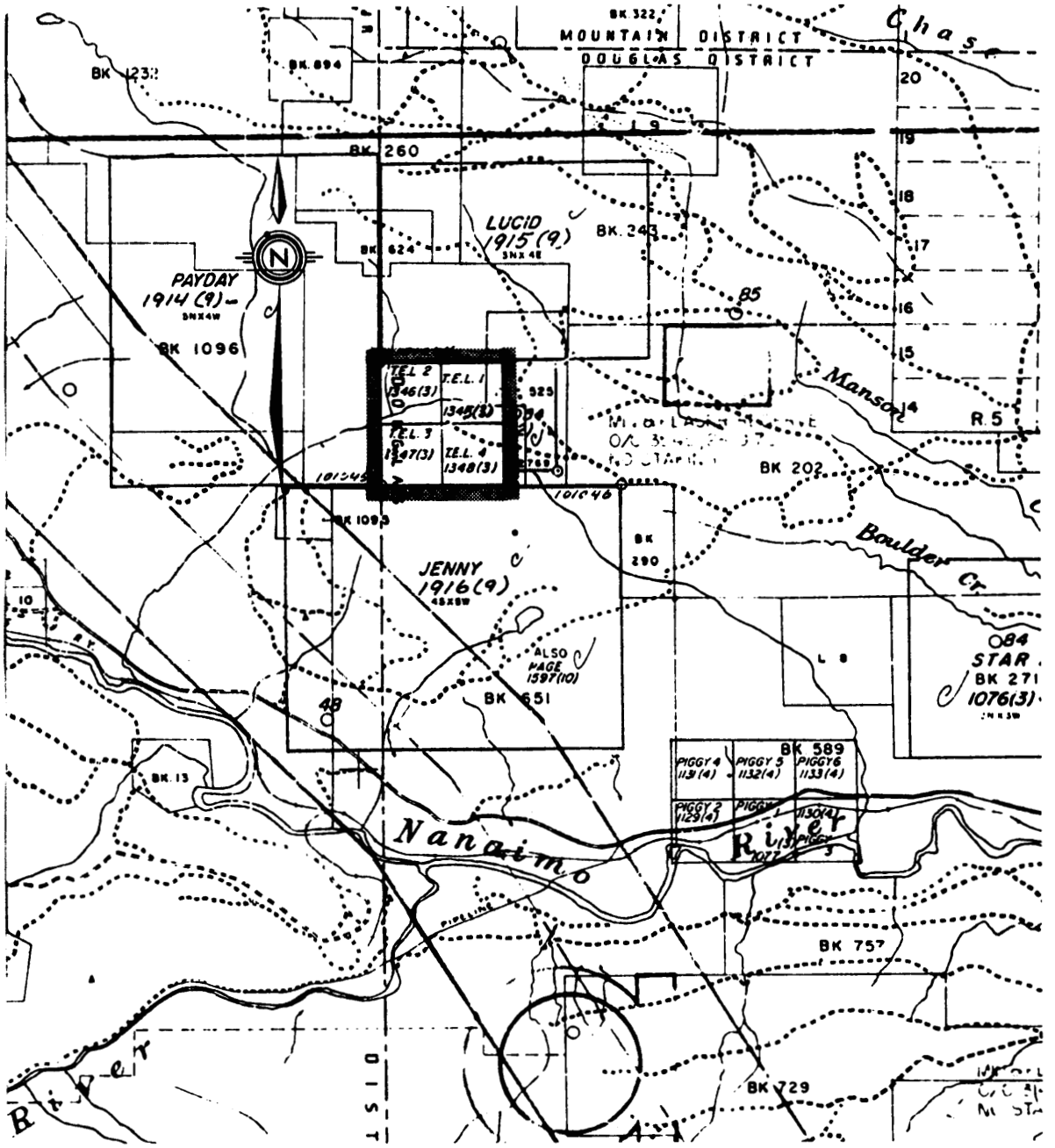

CHEVRON MINERALS LTD.
LOCATION MAP
BRITISH COLUMBIA
MILES
100 0 100 200
100 0 100 200 300 Km
YUKON
TERRITORY
BRITISH
COLUMBIA
ALBERTA
PACIFIC
OCEAN
USA
T.E.L. CLAIMS
WHITEHORSE
Atlin
Watson Lake
Fort Nelson
Fort St. John
Prince George
Quesnel
Williams Lake
Jasper
Kamloops
Salmon Arm
Revelstoke
Banff
VANCOUVER
VICTORIA
Courtenay
Hope
Princeton
Penticton
Nelson
Trail
Cranbrook
VANCOUVER ISLAND
QUEEN CHARLOTTE ISLANDS

FIGURE 1



92F/1E

T.E.L. 1–4 CLAIM MAP

0 1 2 3 4 Km

1:50,000

FIGURE 2

HISTORY

The property was originally staked in 1962 by MacMillan and Godfrey. An area of approximately 30.5 m x 61 m was exposed by trenching.

The claims subsequently expired and were restaked as the Bear claims by Gunnex in 1963. Preliminary geological, geochemical and magnetic surveys were carried out as well as additional trenching before the claims were allowed to expire.

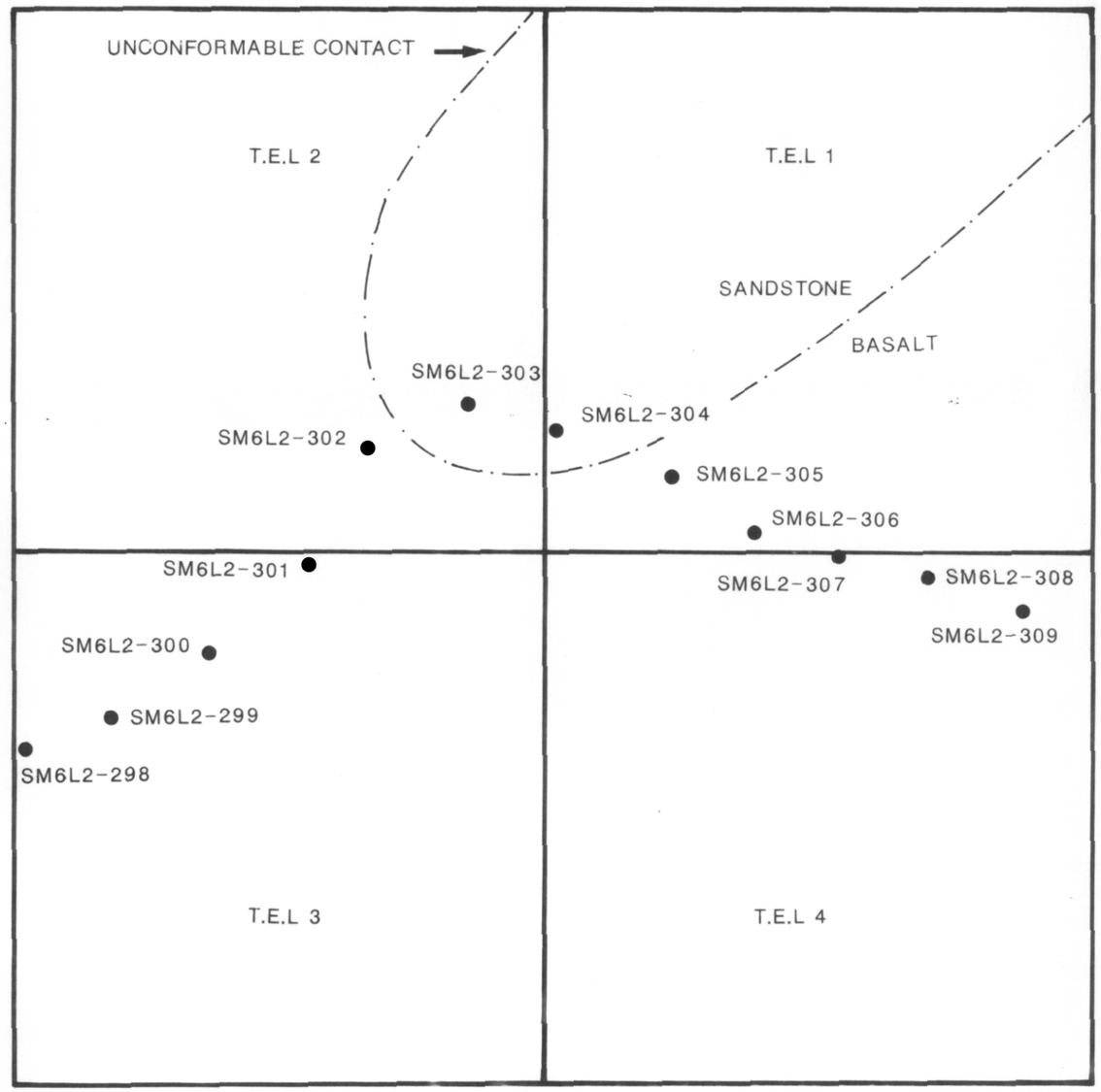
In 1979 Gary Mines staked the Bull 1-10 claims and conducted 23.9 kilometers of geochemical surveys and approximately 28 square m of trenching.

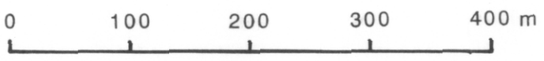
The property was staked and allowed to lapse by Mr C. Kowall in 1979 and by Specogna Minerals Limited in 1982. Mr. T.E. Lisle has held the property since March 15, 1983.

SOIL GEOCHEMISTRY RESULTS

A total of 12 soil samples (Figure 3) were collected from the B horizon at an approximate depth of 15 cm and stored in gusseted Kraft sample bags. The samples were sent to Chemex Labs in North Vancouver and analysed for the following elements; Au, Sb, As, Bi, Cd, Cu, Ga, Pb, Mo, Ag, Tl and Zn. Soils were analysed for gold using fire assay and atomic absorption. ICP-AES (Inductively coupled plasma-atomic emission spectroscopy) analysis was used for the remaining 11 elements. These techniques are outlined in Appendix 4.

Samples SM6L2-301 and 303 had gold values that were higher than background. These soils are underlain by basalt and sandstone, respectively. The geochemical response for antimony, bismuth, cadmium, gallium, molybdenum, silver and thallium was almost





TEL GEOCHEMISTRY

SOIL SAMPLES

SAMPLE #	Au ppb	Sb ppm	As ppm	Bi ppm	Cd ppm	Cu ppm	Ga ppm	Pb ppm	Mo ppm	Ag ppm	Tl ppm	Zn ppm
SM6L2-298	-5	0.1	1	0.2	0.1	100	14	5	1	0.4	0.1	51
SM6L2-299	-5	0.1	3	0.1	0.1	83	14	2	1	0.3	0.1	37
SM6L2-300	-5	0.1	1	0.1	0.1	46	14	2	1	0.1	0.2	30
SM6L2-301	20	0.1	2	0.1	0.1	96	14	1	1	0.1	0.1	36
SM6L2-302	-5	0.1	1	0.1	0.1	68	12	1	1	0.1	0.1	36
SM6L2-303	80	0.1	2	0.2	0.1	48	13	9	1	0.3	0.1	66
SM6L2-304	-5	0.2	1	0.1	0.1	76	15	4	2	0.3	0.1	95
SM6L2-305	-5	0.3	9	0.2	0.2	47	14	30	1	0.1	0.1	133
SM6L2-306	-5	0.1	1	0.1	0.1	52	15	1	1	0.1	0.1	81
SM6L2-307	-5	0.2	1	0.1	0.1	123	14	6	1	0.2	0.1	49
SM6L2-308	5	0.2	2	0.1	0.1	83	15	5	2	0.3	0.1	149
SM6L2-309	-5	0.2	3	0.1	0.1	51	14	12	1	0.3	0.1	68

Note: '-' means '<'

Chevron Canada Resources Limited
Minerals Staff

TEL
SAMPLE LOCATION & SOIL GEOCHEMISTRY

FIGURE No. 3		PROJECT No. M578	
DATE MAR.1987	REVISIONS		SCALE 1:5,000
NTS No. 92F/1E			FILE No. C-1
COMPILED BY SM			

BCIL 6754A3-C.C.

uniform with little variation throughout the traverse. The arsenic response was similarily flat with one peak from a sample taken near the unconformable contact.

Copper values varied considerably and were moderate to low from soils overlying the sandstone. Both zinc and lead values also fluctuated with the highest values occurring in soils underlain by basalt.

CONCLUSIONS

The geochemical responses of the soils overlying both the basalt and clastic sediments are not clearly distinct. In areas of limited outcrop the soil geochemistry can not be used as a good indication of the underlying bedrock.

Although no soils were sampled in areas of known mineralization a few anomalous values of gold, copper, lead and zinc were reported.

APPENDIX I

Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, Sandy G. McAllister, hereby certifiy that:

1. I am presently employed as a geologist by Chevron Canada Resources Limited at 1900 - 1055 West Hastings St., Vancouver, B. C.

2. I graduated from Queen's University in Kingston, Ontario with a B.Sc. (Honours, Geological Sciences) in May 1981.

3. I have practiced geology for the past 6 years in B.C.

4. I am a member in good standing of the Geological Association of Canada, Society of Economic Geologists and a Licensee of the Association of Professional Engineers, Geologists and Geophysists of Alberta.

5. I conducted the work outlined in this report.

Dated the 6th day of March, 1987 Signed S M McAllister
SANDY G. McALLISTER

APPENDIX 2

Cost Statement

T.E.L. 1-4

COST STATEMENT

	Field/Travel	Office	
SALARY - S. McAllister	1.5 Oct.21-22/86	1 Mar.2/87	
2.5 days x $150/day			$ 375.00
GEOCHEMISTRY - 12 soil samples analysed for Au and 11 element ICP-AES			
12 @$19.35			232.20
OTHER			
Food - Oct.21-22/86			45.90
Accommodation - Oct.21/86			50.29
Ferry Fees - Oct.21-22/86			36.00
Drafting - 0.6 days x $150/day			90.00
		TOTAL	$ 829.39

APPENDIX 3

Geochemistry Data

TEL GEOCHEMISTRY

SOIL SAMPLES

SAMPLE #	Au ppb	Sb ppm	As ppm	Bi ppm	Cd ppm	Cu ppm	Ga ppm	Pb ppm	Mo ppm	Ag ppm	Tl ppm	Zn ppm
SM6L2-298	-5	0.1	1	0.2	0.1	100	14	5	1	0.4	0.1	51
SM6L2-299	-5	0.1	3	0.1	0.1	83	14	2	1	0.3	0.1	37
SM6L2-300	-5	0.1	1	0.1	0.1	46	14	2	1	0.1	0.2	30
SM6L2-301	20	0.1	2	0.1	0.1	96	14	1	1	0.1	0.1	36
SM6L2-302	-5	0.1	1	0.1	0.1	68	12	1	1	0.1	0.1	36
SM6L2-303	80	0.1	2	0.2	0.1	48	13	9	1	0.3	0.1	66
SM6L2-304	-5	0.2	1	0.1	0.1	76	15	4	2	0.3	0.1	95
SM6L2-305	-5	0.3	9	0.2	0.2	47	14	30	1	0.1	0.1	133
SM6L2-306	-5	0.1	1	0.1	0.1	52	15	1	1	0.1	0.1	81
SM6L2-307	-5	0.2	1	0.1	0.1	123	14	6	1	0.2	0.1	49
SM6L2-308	5	0.2	2	0.1	0.1	83	15	5	2	0.3	0.1	149
SM6L2-309	-5	0.2	3	0.1	0.1	51	14	12	1	0.3	0.1	68

a28/20

APPENDIX 4

Analytical Techniques

Chemex Labs Ltd.

Analytical Chemists *Geochemists* *Registered Assayers*

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1

Phone: (604) 984-0221
Telex: 043-52597

Gold F.A.-A.A. Combo Method ppb:

For low grade samples and geochemical materials, 10 gram samples are fused in litharge, carbonate and siliceous flux with the addition of 10 mg of Au-free Ag metal and cupelled. The silver bead is parted with dilute HNO_3 and then treated with aqua regia. The salts are dissolved in dilute HCl and analyzed for Au on an atomic absorption spectrophotometer.

Detection limit: 5 ppb

Chemex Labs Ltd.

Analytical Chemists *Geochemists* *Registered Assayers*

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1

Phone: (604) 984-0221
Telex: 043-52597

Antimony ppm:

A 2.0 gm sample is digested with conc. HCl-KClO3 at low heat. The iron is reduced to Fe+2 state and the Sb extracted with TOPO-MIBK and analyzed via A.A. Correcting for background absorption.

Detection Limit: 0.2 +/- 0.2

Chemex Labs Ltd.

Analytical Chemists *Geochemists* *Registered Assayers*

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1

Phone: (604) 984-0221
Telex: 043-52597

THALLIUM AND GALLIUM:

2 gms sample - HClO4, HNO3, and HF digestion-organic extraction of iodide complex and atomic absorption finish correcting for non-atomic background absorption.

Chemex Labs Ltd.

Analytical Chemists *Geochemists* *Registered Assayers*

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1

Phone: (604) 984-0221
Telex: 043-52597

Copper, Lead, Zinc, Silver ppm:

1.0 gm sample is digested with perchloric-nitric acid ($HClO_4$-HNO_3) for approximately 2 hours. The digested sample is cooled and made up to 25 mls with distilled water. The solution is mixed and solids are allowed to settle. Copper, lead, zinc and silver are determined by atomic absorption techniques. Silver and lead are corrected for background absorption.

Detection limit: Copper, Zinc - 1 ppm
Silver - 0.2 ppm
Lead - 2 ppm

Chemex Labs Ltd.

Analytical Chemists *Geochemists* *Registered Assayers*

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North Vancouver, B.C.
Canada V7J 2C1
Phone: (604) 984-0221
Telex: 043-52597

Lead, Molybdenum, Copper:

An aliquot from an acid-preserved filtered sample is taken and digested to dryness with concentrated nitric acid. The residue is dissolved in warm perchloric acid and sufficient water is added to restore the sample to proper dilution. The concentration of each element is then determined by its atomic absorption with Varian AA-5 spectrophotometer calibrated with blanks and standard metal solutions prepared similarly. Background absorption corrections was applied to the measurement of lead. The detection limit for all elements by this method is 0.01 g/ml.

Chemex Labs Ltd.

Analytical Chemists *Geochemists* *Registered Assayers*

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1

Phone: (604) 984-0221
Telex: 043-52597

Bismuth ppm:

A 2.0 gram sample is digested with concentrated HCl and potassium chlorate. The solution is then cooled. After the addition of KI and the reduction of iron, the solution is extracted with MIBK aliquot 336 and analyzed via standard AA procedure, correcting for background absorption.

Detection limit: 0.2 ppm

Chemex Labs Ltd.

Analytical Chemists *Geochemists* *Registered Assayers*

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1

Phone: (604) 984-0221
Telex: 043-52597

Arsenic ppm:

A 1.0 gm sample is digested with a mixture of perchloric and nitric acid to strong fumes of perchloric acid. The digested solution is diluted to volume and mixed. An aliquot of the digest is acidified, reduced with ~~KI~~ KI and mixed. A portion of the reduced solution is converted to arsine with $NaBH_4$ and the arsenic content determined using flameless atomic absorption.

Detection limit: 1 ppm

APPENDIX 5

Statement of Exploration and Development

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources
MINERAL RESOURCES DIVISION — TITLES BRANCH

MINERAL ACT

STATEMENT OF EXPLORATION AND DEVELOPMENT

I, Sandy G. McAllister (Name)
201 - 1286 West 14th Ave., (Address)
Vancouver, B.C.
V6H 1P9 (Postal Code) 736-2149 (Telephone Number)
Valid subsisting F.M.C. No. McALS 218642

Agent for Tom E. Lisle (Name)
145 West Rockland Road (Address)
North Vancouver,B.C.
V7N 2V8 (Postal Code) 668-5491 (Telephone Number)
Valid subsisting F.M.C. No. LISLTE 296007

STATE THAT

1. I have done, or caused to be done, work on the T.E.L. 1, T.E.L. 2, T.E.L. 3, and T.E.L. 4 Claim(s)
Record No(s). 1345, 1346, 1347 and 1348
Situate at 13 km SW of Nanaimo in the Nanaimo Mining Division,
to the value of at least 800 dollars. Work was done from the 22nd day
of October 1986, to the 22nd day of October 1986

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 Sampling	$800.00
TOTAL OF C AND D	$800.00

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 Chevron Canada Resources Limited,

Address 1900 - 1055 West Hastings St.,
Vancouver, B. C.
V6E 2E9

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 $ 800.00 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.)

Claim Name	Record #	Units	Work Applied	Years Earned
T.E.L. 1	1345	1	$200.00	1
T.E.L. 2	1346	1	200.00	1
T.E.L. 3	1347	1	200.00	1
T.E.L. 4	1348	1	200.00	1

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 of owner/operator	Name	AMOUNT
1.	Chevron Canada Resources Limited	$29.39
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.

cc

S. McAllister
Signature of Applicant