

'80-#429-H 8207

GEOCHEMICAL REPORT

ON

BOB MINERAL CLAIM

(MAGGIE MINES LTD.)

Lat. 49 38', Long. 123 01',

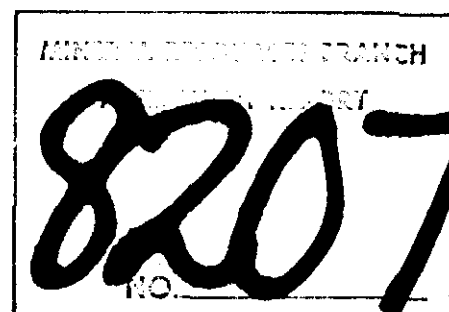
NTS 92G/11E.

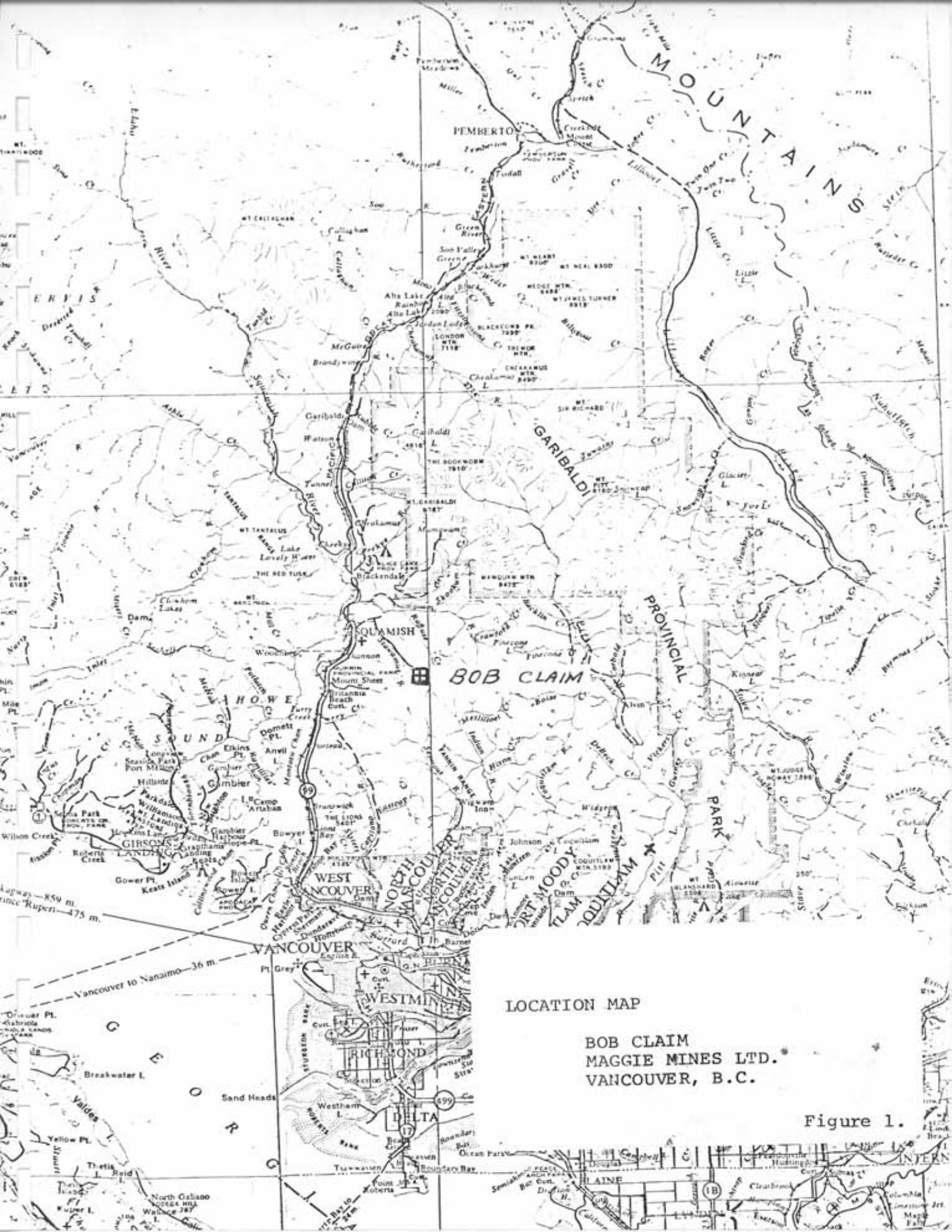
Work completed May 16 and 17, 1980

by

T.E.Lisle, P.Eng.

June 13, 1980





LOCATION MAP

BOB CLAIM  
 MAGGIE MINES LTD.\*  
 VANCOUVER, B.C.

Figure 1.

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## SUMMARY AND CONCLUSIONS

The Bob mineral claim owned by Maggie Mines Ltd. lies astride the Indian River some 14 km. southeast of Squamish in the Vancouver Mining Division.

The claim is underlain by Gambier Formation volcanic and sedimentary rocks, and by dioritic to granite intrusive rocks. Adjacent claims to the northwest and southeast have been investigated recently for volcanogenic type copper, lead, zinc and silver mineralization.

Preliminary geochemical work for similar mineralization on the Bob claim, carried out in May, 1980, has yielded data that requires at least limited follow-up exploration. Higher than background copper content was encountered on samples from an area close to the W.C. claims where mineralization is known. Claim boundary locations in this area should be rechecked and that area within the Bob claim should be re-examined geologically and geochemically.

Sample sites from other areas showing higher than background assays for any of the metals tested for should also be re-examined.

## INTRODUCTION

Maggie Mines Ltd. have been actively exploring for volcanogenic copper, lead, zinc mineral deposits on claims adjacent to the Bob claim. Little exploration data is available on the Bob claim and for this reason, some initial geochemical work was undertaken in the preliminary evaluation of the ground.

Two days, May 16 and 17, 1980 were spent on the property collecting soil samples. The sample sites are referenced to the legal corner post of the claim. Survey control was by belt chain and compass. Samples were collected in brown kraft soil bags and shipped to Chemex Labs Ltd. in North Vancouver, B.C.

This report presents the results of this preliminary work and is written to conform with assessment requirements.

## LOCATION AND ACCESS

The Bob claim lies astride the Indian River approximately 14 km. southeast of Squamish on Howe Sound. Access is by a reasonably good gravel road running east then southeast from Squamish. Lat.  $49^{\circ} 38'$ ; Long.  $123^{\circ} 01'$ ; NTS 92G/11E.

M 92G/11E

MT. HABRICH

IN. B. PLACER  
E EITHER SIDE  
3.5. 7 AUG. 70  
BY T. J. CONDILLI

ASTRA  
225 (12)

MARIE  
137 (12)

BALWIN 3  
208 (10)

BALWIN 2  
203 (8)

MT. BALDWIN  
FALCON  
130 (11)

BALWIN 1 202 (8)

CLARKE  
126 (11)

JANETTE  
201 (8)

WAR EAGLE  
116 (10)

136 (12)

JODY  
138 (12)

JARMILA  
334 (11)

MAR  
127 (11)

HAROLD  
FR. 332 (11)

BOB  
186 (7)

BONANZA 1  
140 (11)

DELTA 7  
287 (6)

SKY PILOT MTN.

Utopia L.

MT. SHEER

Raven's Mountain L.

Order L.

Wend L.

BEN LOMOND

Lock L.

Ben Lomond

Delta L.

Stuwamus Delta L.

Red Mtn.

Order L.

Wend L.

Ben Lomond

Delta L.

CLAIM MAP

BOB MINERAL CLAIM, MAGGIE MINES LTD

MICROFILM DATE 80-04-24

FIG. 2.

LEGEND

CROWN-GRANTED MINERAL CLAIM

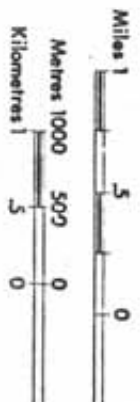
REVERTED C.O. MINERAL CLAIM

FORFEITED MINERAL CLAIM

VERIFIED LEGAL CORNER POST

LEGAL SURVEY

LEGAL CORNER POST & TAG NUMBER 0228



5

4

92G/10W 92G/11E

The claim area covers steep to locally precipitous valley slopes where elevations range from 530 to about 1000 meters above sea level. The area has been partly logged.

#### CLAIMS

The Bob claim is part of the larger holdings of Maggie Mines and is comprised of 9 units. Record 186(7), anniversary date - July 27, 1980. The claim is staked 3 units south and 3 units east of the legal corner post near the Indian River, and is located in the Vancouver Mining Division.

Current maps show the claim to be in partial conflict with four previously staked W.C. claims, owned by others.

#### HISTORY

Prospecting in 1976 resulted in the discovery of copper, lead and zinc mineralization in the area northwest of the Bob claim, on ground now covered by the War Eagle claim. Since that time, the claim has been subjected to geochemical, geophysical and geological surveys in addition to limited underground work, trenching and drilling. The Bob claim is in partial conflict with the W.C. claims owned by others. The W.C. prospect is about 3 km. southeast of

the underground work noted above, and like the War Eagle, contains important concentrations of Ag Cu and Zn. The mineralization is in a strong schistose shear, and has been investigated in the past by underground workings.

#### GEOLOGY

The claims are underlain by volcanic and sedimentary rocks of the Jurassic Gambier Formation and by Cretaceous intrusive rocks ranging from diorite to granite in composition. The volcanic-sediment assemblage trends northwest-southeast through the claim area, dips steeply southwest, and is dominated by flows and tuffs of rhyolitic composition.

Volcanogenic type mineralization, including chalcopryrite, pyrrhotite, sphalerite, galena and pyrite with important silver content is locally associated with the rhyolitic volcanics. On the War Eagle claim, mineralization occurs in the vicinity of an agglomerate zone. Detail mapping has not been undertaken on the Bob claim.

#### GEOCHEMISTRY

The area examined lies between the mineralized W.C. claim on the southeast and the mineralized War Eagle zone to the northwest. Creeks draining northeast to the Indian River



on the ground west of the Bob claim (Mar claim)? show anomalous silt values for copper, lead, zinc and silver and remains unexplored. Although limited in extent, the current work partly fills the gap between the two areas.

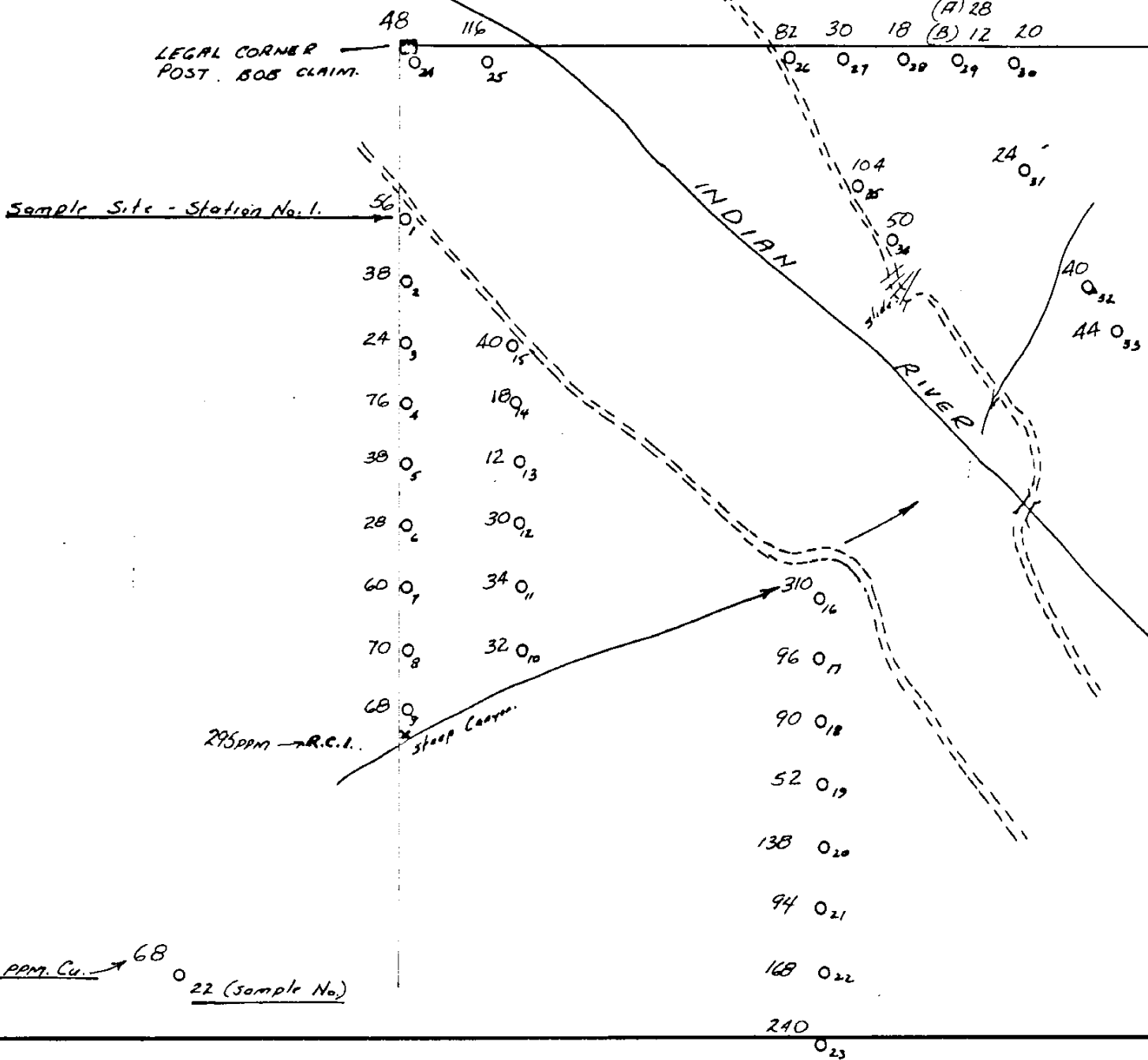
Previous geochemical surveys mainly on the grids of the War Eagle claim used the following groupings to display areas of interest.

	Possible? Anomalous PPM	Probable? Anomalous PPM	Anomalous PPM
Copper	50 - 99	100 - 199	+ 200
Lead	40 - 69	70 - 129	+ 130
Zinc	100 - 199	200 - 399	+ 400
Silver	0.30-0.49	0.50 - 0.89	+ 0.90

These designations are retained without further statistical work for ease of comparison.

Soils within the Bob claim are thought to be partly glacial in origin, and a typical profile may comprise a 5-15 cm. dark surface organic layer underlain by brown to strongly limonitic, and locally sandy soils of variable thickness. In few areas, these zones may be separated by a thin grey ash? layer a few centimeters thick. Details on the collection of samples are shown in Appendix 2 of this report.

Samples sent to Chemex Labs Ltd. were dried, screened and the -80 mesh fraction analyzed by conventional perchloric-nitric acid techniques.



*J. E. [Signature]*

PROFESSIONAL  
ENGINEER

**MAGGIE MINES LTD**  
**BOB CLAIM - GEOCHEMISTRY**  
**COPPER**

Scale 1:5000 May/80

FIG. 3(a)

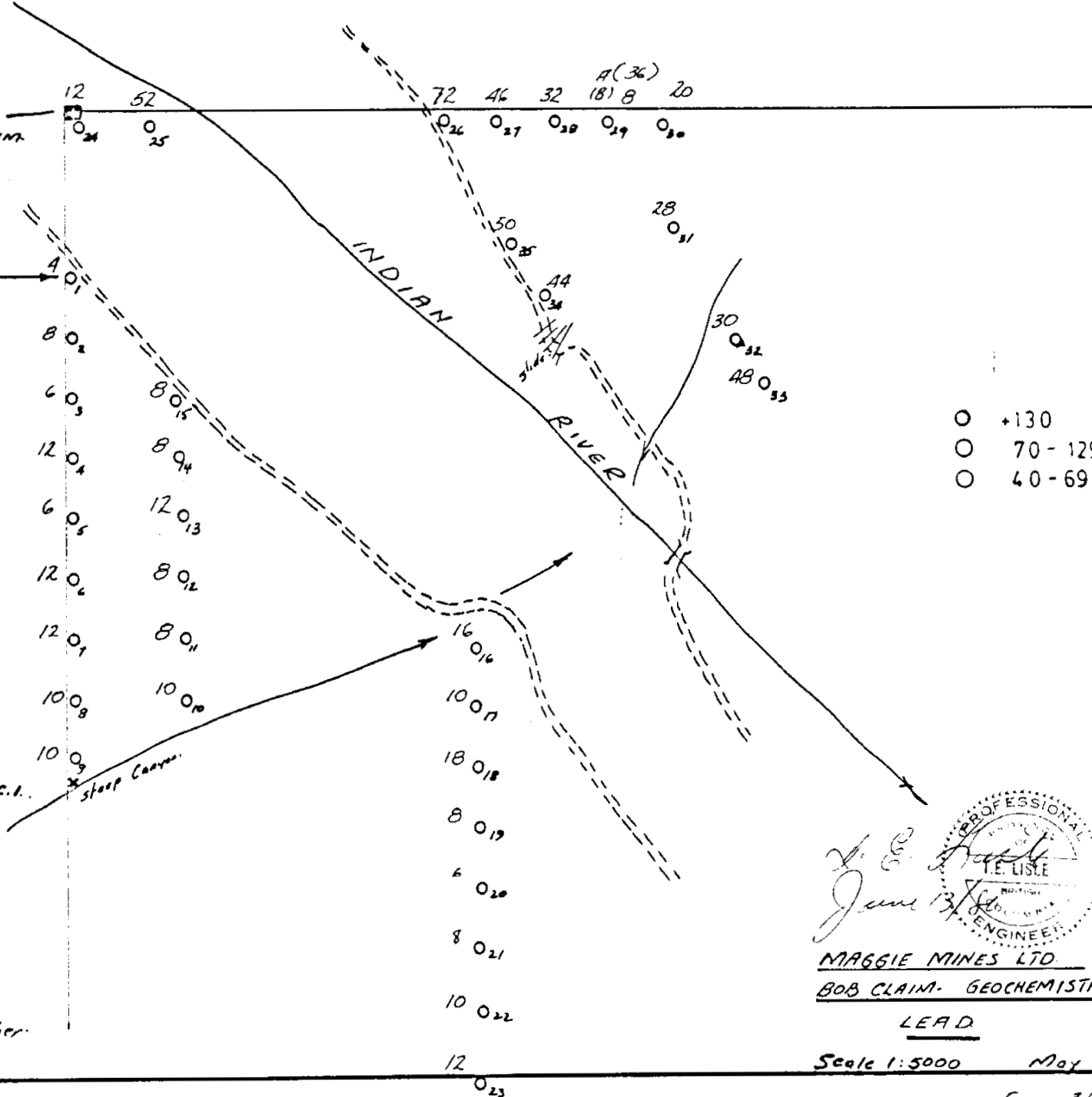
LEGAL CORNER  
POST. BOB CLAIM.

Sample Site - Station No. 1.

2 PPM. — R.C.I. — steep corner.

PPM Lead-52

○ Sample Number



○ +130 PPM  
○ 70-129 "  
○ 40-69 "

J. E. [Signature]  
June 13/80  
PROFESSIONAL  
T. E. LISSE  
ENGINEER

MAGGIE MINES LTD.  
BOB CLAIM- GEOCHEMISTRY.  
LEAD

Scale 1:5000 May/80

LEGAL CORNER  
POST. BOB CLAIM.

Sample Site - Station No. 1.

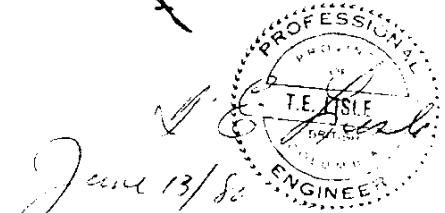
INDIAN RIVER

- +400 PPM
- 200-399 "
- 100-199 "

PPM Zn  
150 ○  
7 ← Sample No

194 → R.C.I.

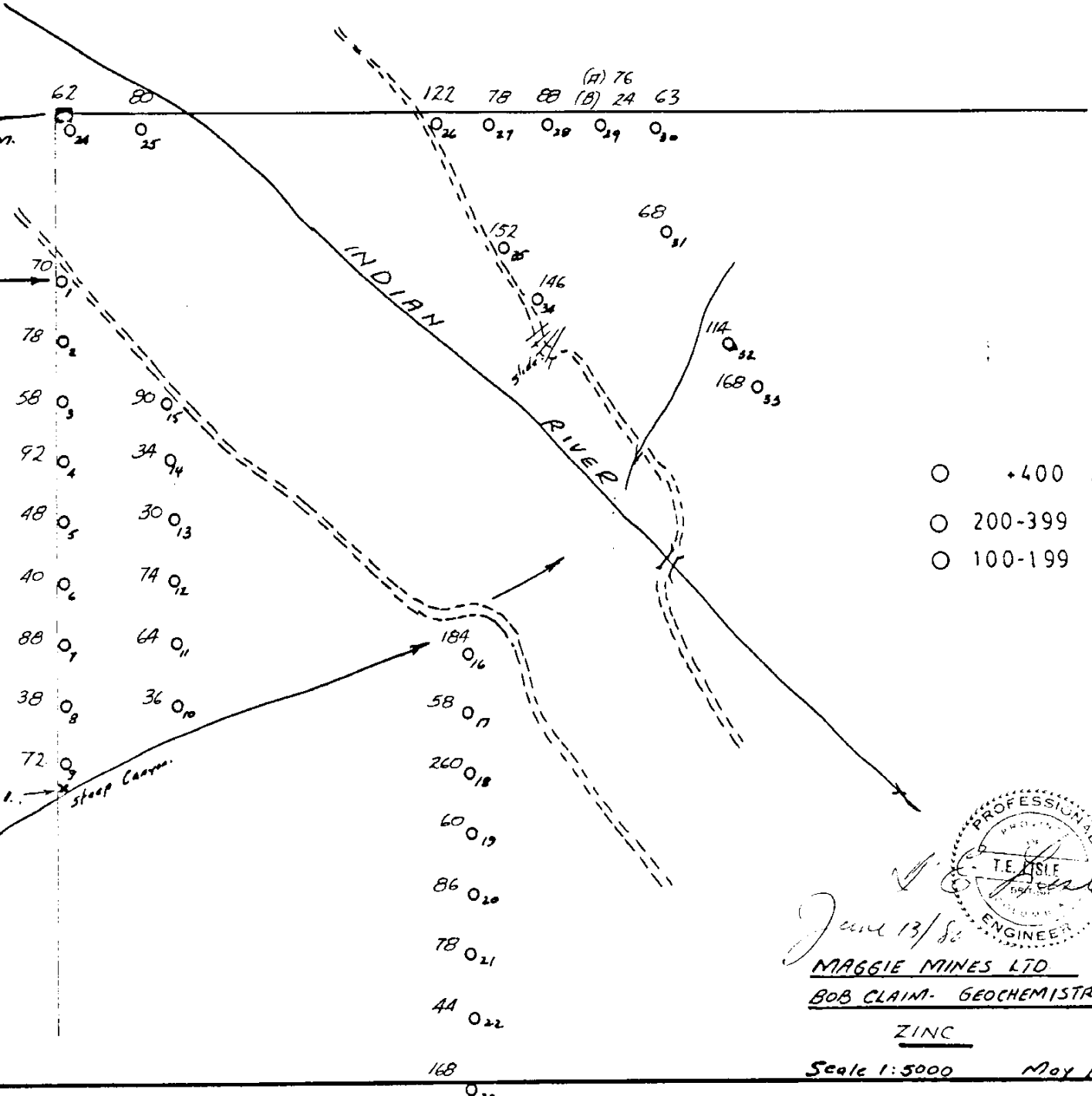
steep Canyon



MAGGIE MINES LTD  
BOB CLAIM - GEOCHEMISTRY.

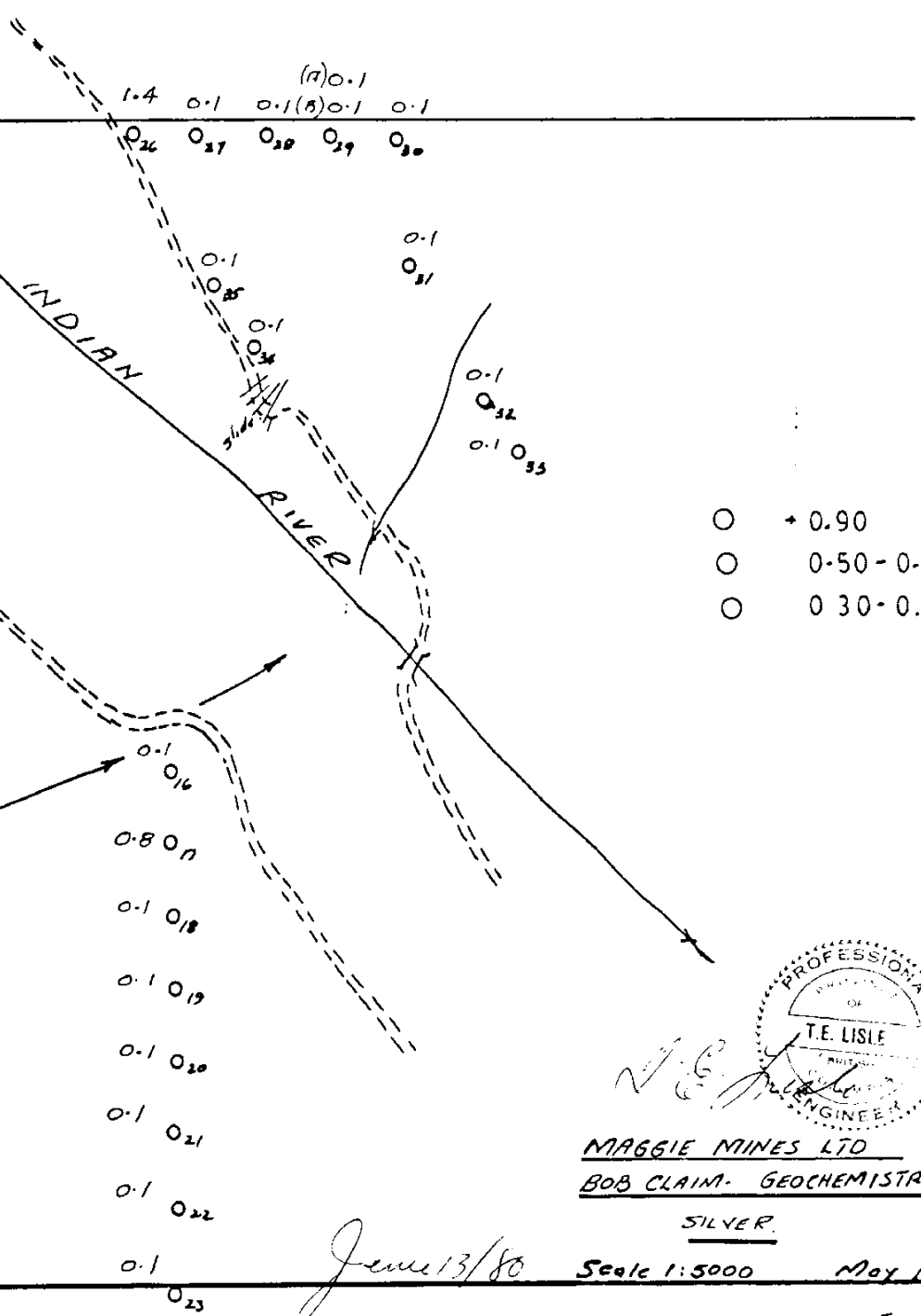
ZINC

Scale 1:5000 May 1980



LEGAL CORNER  
POST. BOB CLAIM.

Sample Site - Station No. 1.



- + 0.90 PPM.
- 0.50 - 0.89 PPM
- 0.30 - 0.49 "

PPM Ag → 0.1  
← Sample No



MAGGIE MINES LTD  
BOB CLAIM. GEOCHEMISTRY.

SILVER.

June 13/80

Scale 1:5000 May 1980

FIG. 3 (d)

SAMPLE RESULTS

Copper - Thirty-six samples showed a range of 12 to 310 PPM. The higher samples, number 16 to 23, are from the southernmost section of the claims examined, and are believed to be close to the area of the W.C. claims.

The highest assay, sample number 16, is from the upper road bank and near the large northeasterly flowing creek. Consequently, it may have been transported and the area should be rechecked.

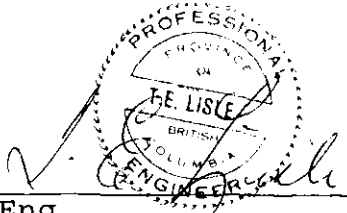
Lead - Most of the samples yielded assays much lower than the ranges indicate to be of interest. The range is 6 to 72 PPM. Five of the higher assays are from an area north of the Indian River and the highest from a road bank in the same area.

Zinc - Samples assayed between 30 and 260 PPM. The highest sample, number 18, is on the line showing generally higher than background copper content south of the River. Many of the higher results are from an area north of the river coincident with the higher lead assays, however, the assays are not exceptionally high.

Silver - All of the samples except two assayed 0.1 PPM. The other two assayed 0.8 PPM and 1.4 PPM. The latter sample is coincident with the highest lead assay.

General - Two samples were collected from station 29 north of the Indian River. Sample 29A was of the discontinuous grey clayey ash? layer and 29B of the underlying limonitic soil. Sample 29A showed consistently higher assays for copper, lead and zinc. The assays were not, however, exceptionally high.

The rock chip sample was of pyritized limonitic outcrop near the top of the steep canyon indicated. Other limonitic zones are present within this area.

A circular professional engineer seal for T.E. Lisle, P.Eng. The seal contains the text "PROFESSIONAL ENGINEER", "T.E. LISLE", "BRITISH COLUMBIA", and "P.Eng.". A handwritten signature is written over the seal.  
T.E. Lisle, P.Eng.

REFERENCES

- CLENDENAN, A.D. Diamond Drilling Program on the War  
Eagle claim 49° 39'N, 123° 02'W, 92.G.11E -  
Placer Development Ltd. December, 1978,  
Private Report.
- CLENDENAN, A.D., P.Geol. Report on the 1978 Exploration Program  
PENTLAND, W.S. on the Hopkins' Property, Maggie Mines Ltd.,  
Squamish, B.C. March, 1979, Private Report.
- CLENDENAN, A.D. 1979 Exploration Program Report, Hopkins'  
Property NTS 92-G-11E October, 1979,  
Private Report.
- Exploration in British Columbia. B.C.  
Department of Mines, 1978.



APPENDIX 1

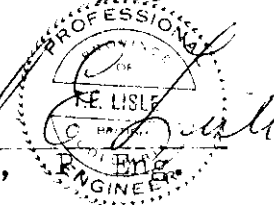
DECLARATION.

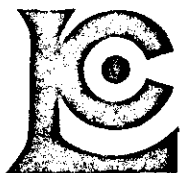
I, Thomas E Lisle, of the District of North Vancouver, Province of British Columbia, Canada, declare:

- I am a geologist residing at the above address.
- I am a graduate of the University of British Columbia in 1964 with a Bachelor of Science degree, and am a registered member of the Association of Professional Engineers of British Columbia.
- I have practiced my profession since graduation, and was engaged in exploration geology for several years prior to 1964.
- This report is based on the work carried out by me and an assistant on the dates specified. Other background references are acknowledged.
- I have no interest, directly or indirectly in the property described in this report, nor in the securities of Maggie Mines Limited. I do not expect to receive or acquire any interest.

Dated at Vancouver, B.C. this 16 day of June, 1980

T.E.Lisle,





## CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
NORTH VANCOUVER, B.C.  
CANADA V7J 2C1  
TELEPHONE: 984-0221  
AREA CODE: 604  
TELEX: 04-352597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

TO: Mr. H. Hopkins  
Maggie Mines Ltd.  
Box 132  
Brackendale, B.C.  
ATTN: c.c. R.H. Seraphim Engineering Ltd.

CERTIFICATE NO. 52920  
INVOICE NO. 35842  
RECEIVED May 20, 1980  
ANALYSED May 21, 1980

SAMPLE NO. :	PPM Cu	PPM Pb	PPM Zn	PPM Ag
MAGGIE BOB 1	56	4	70	0.1
2	38	8	78	0.1
3	24	6	58	0.1
4	76	12	92	0.1
5	38	6	48	0.1
6	28	12	40	0.1
7	60	12	88	0.1
8	70	10	38	0.1
9	68	10	72	0.1
10	32	10	36	0.1
11	34	8	64	0.1
12	30	8	74	0.1
13	12	12	30	0.1
14	18	8	34	0.1
15	40	8	90	0.1
16	310	16	184	0.1
17	96	10	58	0.8
18	90	18	260	0.1
19	52	8	60	0.1
20	138	6	86	0.1
21	94	8	78	0.1
22	168	10	44	0.1
23	240	12	168	0.1
24	48	12	62	0.1
25	116	52	80	0.1
26	82	72	122	1.4
27	30	46	78	0.1
28	18	32	88	0.1
29A	28	36	76	0.1
29B	12	8	24	0.1
30	20	20	63	0.1
31	24	28	68	0.1
32	40	30	114	0.1
33	44	48	168	0.1
34	50	44	146	0.1
MAGGIE BOB 35	104	50	152	0.1
Rock chip - certificate 140- (52921)	295	2	194	0.4. J.E. Fisher

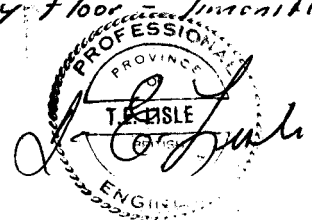


MEMBER  
CANADIAN TESTING  
ASSOCIATION

CERTIFIED BY: .....

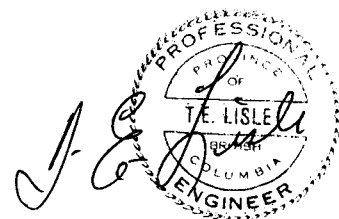
APPENDIX 2

Sample No.	Depth	Notes
Bob 1 -	30 cm.	Brown limonitic soil in boulders.
" 2	37 "	Brown " sandy soil.
" 3	35 "	Dark limonitic soil
" 4	30 "	Slide area - talus area - Brown soil
" 5	30 "	Dark brown soil - Abundant rock
" 6	30 "	Organic sample in talus.
" 7	35 "	Brown limonitic soil.
" 8	?	Poor sample - side of creek - Volcanic and granitic outcrop. - S. wall - gtz - ventlets.
" 9	30 "	Strong limonitic - Pebbly - granular.
" ROCK CHIP	-	Pyritized rocks on blocks.
" 10	37 "	Gray clay and brown surface organic - Poor
" 11	37 "	Dark brown soil below gray clay layer.
" 12	30 "	Limonitic soil " " " "
" 13	25 "	Brown limonitic soil.
" 14	30 "	Dark brown soil - Abundant rocks.
" 15	-	Above bedrock on road bank (upper)
" 16	-	Limonitic soil in bank. 30-50 cm above bedrock.
" 17	30 "	Dark brown - locally yellow limonitic
" 18	22 "	Brown soil - Slide area.
" 19	30 "	Brown limonitic soil.
" 20	35 "	Dark brown soil.
" 21	25 "	Brown limonitic soil.
" 22	~37 "	" " " Glass Fragment in soil
" 23	30 "	Brown limonitic soil - no clay.
" 24	43 "	" " sandy " - 20% black organic
" 25	~30 "	Steep bank near valley floor - limonitic soil



APPENDIX 2

SAMPLE No.	DEPTH	NOTES.
BOB 26		Road bank. DK brown gravelly - Glacial?
" 27	30 cm.	Orange limonitic - gritty soil
" 28	20 cm.	Brown soil - slide area, abundant rock.
" 29 (a)	15 cm	Grey clay (ASH)?
" 29 (b)	30 cm	limonitic soil - same site.
" 30	30 "	" " No grey.
" 31	-	Slide - Poor sample - limonitic + organic.
" 32	-	Brown gravel - Slide area - poor.
" 33	-	Slide area - Dark brown gravelly soil
" 34	-	Road - Brown limonitic soil - 30 to 60 cm above Rhyolite Bx + siliceous Rhyolite.
" 35	-	Road bank sample.



APPENDIX # 3

STATEMENT OF COSTS

- T.E.Lisle, P.Eng. May 16 & 17 1980 2 days at \$190.00	\$380.00
- T.E.Lisle, June 12 and 13, report.	250.00
- C. Hopkins, Assistant. 2 at \$50.00	100.00
- Geochemical Analyses, 36 soil, 1 rock chip	153.00
- Vehicle rental	71.51
- Office Overhead	50.00

-----  
\$1004.51

physical  
TEK

608.00

1612.51



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T.E.Lisle, P.Eng.

June 13, 1980