GEOLOGICAL AND GEOCHEMICAL

ASSESSMENT REPORT

ON THE

COYOTE PROPERTY

(COYOTE, STEVE, PETE, TOM CLAIMS)

Fort Steele Mining Division
NTS 82 J/4E,3W & 82 G/13E,14W
Lattitude 50°00'N Longitude 115°30'W

OWNER: Teck Corporation
600-200 Burrard Street
Vancouver, B.C.
V6C 3L9

S. Jensen
May 1992
Kamloops, B.C.

SUMMARY

The Coyote property consists of the Coyote, Pete 1-8, Steve 1-8 and Tom 1-8 mineral claims totalling 44 units. The property is located within the Rocky Mountains of southeastern B.C., roughly 25 kilometres southeast of Canal Flats.

The property was staked in response to a 1991 government RGS release identifiying several anomalous zinc values draining a north-trending belt of black shale stratigraphy.

The 1991 program consisted of limited 1:20,000 scale mapping with limited concurrent rock sampling. In addition, nine soil traverses were carried out along anomalous drainages outlined by the RGS and subsequent Teck stream sampling. The purpose of the program was to test for an economic shale-hosted Zn-Pb massive sulphide deposit hosted within Devonian black shales. Mapping and soil, rock and stream sampling was concentrated within the black shales. The program was carried out between June 28 and September 5.

1991 mapping and prospecting confirmed the presence of black shale stratigraphy. Follow-up moss mat stream samples confirmed the anomalous nature of the drainages outlined by the RGS results.

Two black shale horizons were delineated within the Steve claims. The lower sequence contained coincident anomalous soil (up to 1552 pmm Zn), stream (2307 ppm Zn) and rock (838 ppm Zn) results. The upper shale horizon contained anomalous zinc (rock) values up to 1649 ppm with additional anomalous soil zones.

Black shale stratigraphy was not found on the Tom claims with the limited mapping to date as few outcrops were noted. Two limited soil traverses did not return significant zinc results. Two stream samples from the southeast corner of the claims returned highly anomalous zinc results (up to 4084 ppm Zn) and might indicate an anomalous black shale source upslope.

Mapping on the Coyote and Pete claims outlined a 2km x 400m arcuate belt of black shales containing anomalous zinc soil and stream samples. Two anomalous soil zones were delineated with values up to 6066 ppm Zn returned on the upper zone. The lower zone contained soil values up to 1894 ppm Zn with a coincident moss mat stream sample result of 8342 ppm Zn. A moss mat located 200 metres downstream ran 5414 ppm Zn.

RECOMMENDATIONS

Further work is recommended on the Coyote property at this time due to :

1) Strongly anomalous zinc stream sample results.
2) Presence of Devonian black shale stratigraphy.
3) Lack of previous Zn-Pb base metal exploration in the area.

Follow-up work on the property should consist of :

1) Detailed mapping to define the stratigraphy and trace favourable black shale.
2) Detailed soil sampling over the favourable areas.
3) Ground magnetometer surveys over the favourable areas.
4) Upon positive results from the above, follow-up trenching.

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1. INTRODUCTION

During 1991, a program consisting of soil sampling and limited 1:20,000 scale mapping with concurrent rock and stream sampling was carried out on the Coyote property. The property was staked in response to a 1991 RGS release identifying several anomalous zinc values draining a north-trending belt of black shale stratigraphy. The program was designed to evaluate the potential for an economic shale-hosted Zn-Pb massive sulphide deposit.

Initial follow-up was designed to confirm the anomalous nature of the drainages and the presence of black shale stratigraphy. Additional follow-up consisted of creek bank soil traverses, mapping and prospecting, with concurrent rock sampling.

This report describes the program and results.

2. LOCATION AND ACCESS (Figures 1, 2)

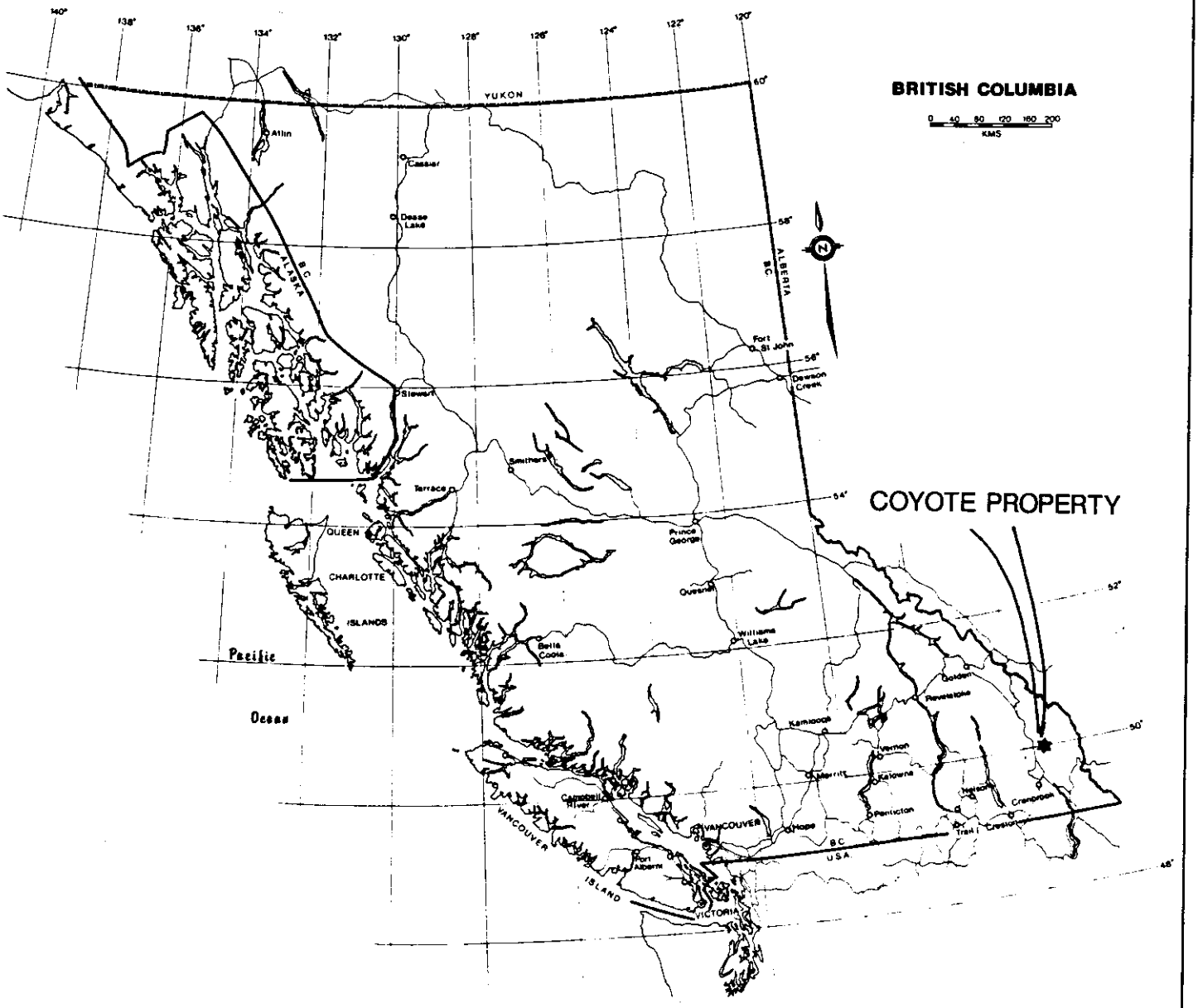
The Steve, Tom, Pete and Coyote mineral claims are located roughly 25 kilometres southeast of Canal Flats in southeastern British Columbia. The property is located on NTS map sheets 82J/4E,3W and 82G/13E,14W with an approximate property centre latitude and longitude of 50° 00'N and 115° 30'W, respectively.

The property is easily road accessible via the Whiteswan Lake road originating five kilometres south of Canal Flats along Highway 93/95. Whiteswan Lake road is followed eastward for ≈21 kilometres and then along the Lussier River road for roughly 14 kilometres south to the claims area. Secondary logging roads and skid trails provide further access to much of the property.

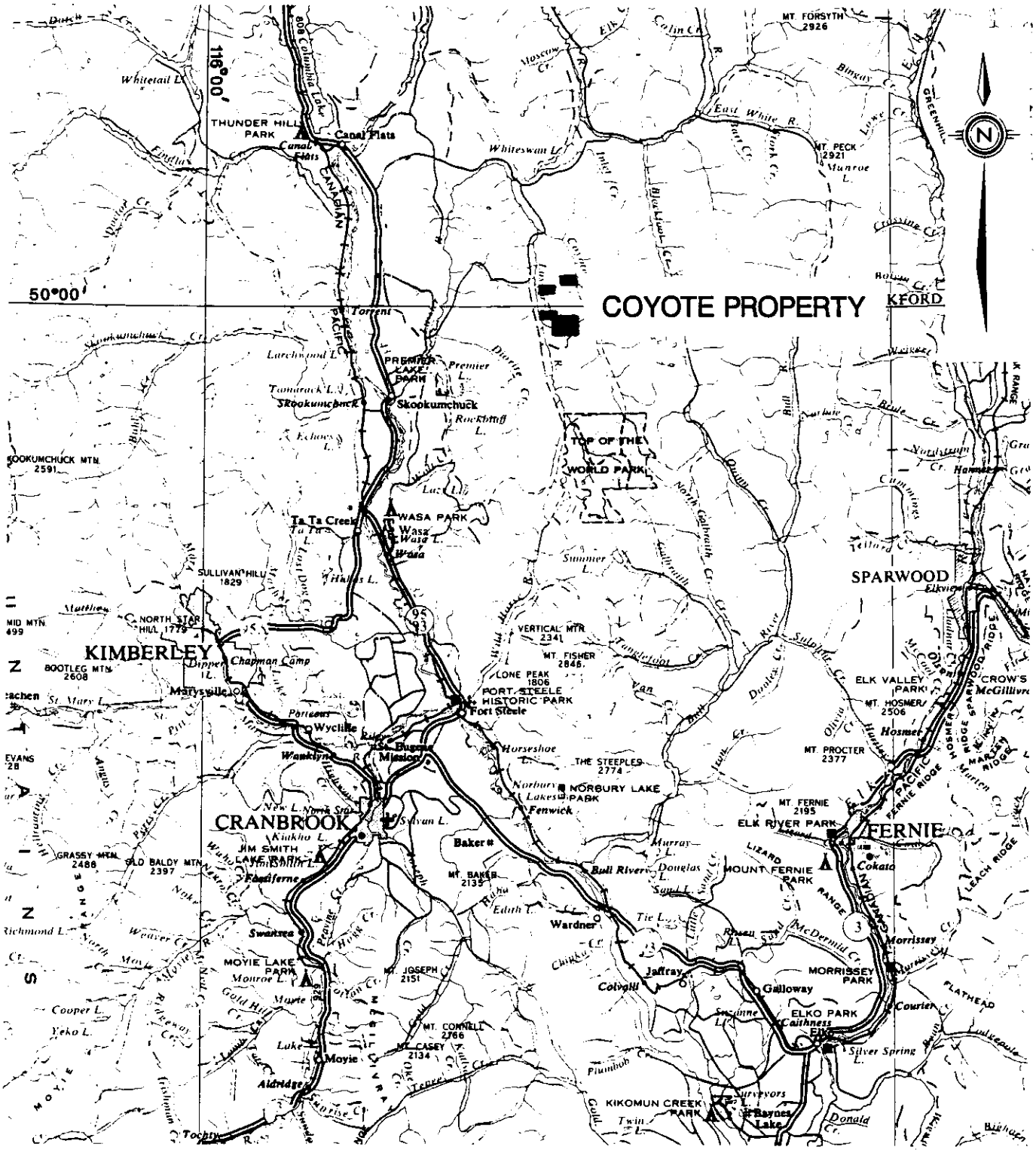
3. TOPOGRAPHY AND VEGETATION

Topography is moderate as the property is situated within the Kootenay Ranges of the Rocky Mountains. Elevations range from 2036 metres (6678 feet) along a west central Coyote claim ridge top to 1335 metres (4379 feet) along Lussier River on the western edge of the Tom claims. The claims occupy a north-trending ridge situated between Lussier River and Coyote Creek.

Vegetation is thick to open and consists predominantly of mature spruce, pine, and fir with other mixed conifers. Underbrush is generally moderate to thick and consists of alders, scrubrush and burn. Moderate portions of the property area are covered by recent logging cuts and forest fire burns.



TECK EXPLORATIONS LTD	
LOCATION MAP	
COYOTE PROPERTY	
SCALE : 1 : 1,000,000	FIGURE : 1



0 6 12 24

KILOMETRES

TECK EXPLORATION LTD

COYOTE PROPERTY

LOCATION MAP

SCALE : 1 : 600,000 | FIGURE : 2

4. CLAIMS (Figure 3)

The property, located in the Fort Steele Mining Division, consists of the Coyote, Steve 1-8, Tom 1-8 and Pete 1-8 mineral claims totalling 44 units (≈1100 hectares). Three non-contiguous claim groups are registered to Teck Corporation and are grouped as:

Coyote Group - Coyote, Pete 1-8 claims (28 units total)

Steve Group - Steve 1-8 claims (8 units total)

Tom Group - Tom 1-8 claims (8 units total)

The following table lists all pertinent claim data.

TABLE 1

CLAIM RECORDS

Claim Name	Record No.	Units	Record Date	Expiry Date *
Coyote	302000	20	July 11, 1991	July 11, 1994
Pete 1	301676	1	June 27, 1991	June 27, 1996
Pete 2	301677	1	June 27, 1991	June 27, 1996
Pete 3	301678	1	June 27, 1991	June 27, 1995
Pete 4	301679	1	June 27, 1991	June 27, 1994
Pete 5	301680	1	June 27, 1991	June 27, 1994
Pete 6	301681	1	June 27, 1991	June 27, 1994
Pete 7	301682	1	June 27, 1991	June 27, 1994
Pete 8	301683	1	June 27, 1991	June 27, 1994
Steve 1	301684	1	June 27, 1991	June 27, 1995
Steve 2	301685	1	June 27, 1991	June 27, 1995
Steve 3	301686	1	June 27, 1991	June 27, 1995
Steve 4	301687	1	June 27, 1991	June 27, 1995
Steve 5	301688	1	June 27, 1991	June 27, 1995
Steve 6	301689	1	June 27, 1991	June 27, 1995
Steve 7	301690	1	June 27, 1991	June 27, 1995
Steve 8	301691	1	June 27, 1991	June 27, 1995
Tom 1	301693	1	June 27, 1991	June 27, 1994
Tom 2	301694	1	June 27, 1991	June 27, 1994
Tom 3	301695	1	June 27, 1991	June 27, 1995
Tom 4	301696	1	June 27, 1991	June 27, 1995
Tom 5	301697	1	June 27, 1991	June 27, 1995
Tom 6	301698	1	June 27, 1991	June 27, 1995
Tom 7	301699	1	June 28, 1991	June 28, 1995
Tom 8	301700	1	June 28, 1991	June 28, 1995
		Total = 44 Units		

Note * = Expiry Date based on acceptance of this report.

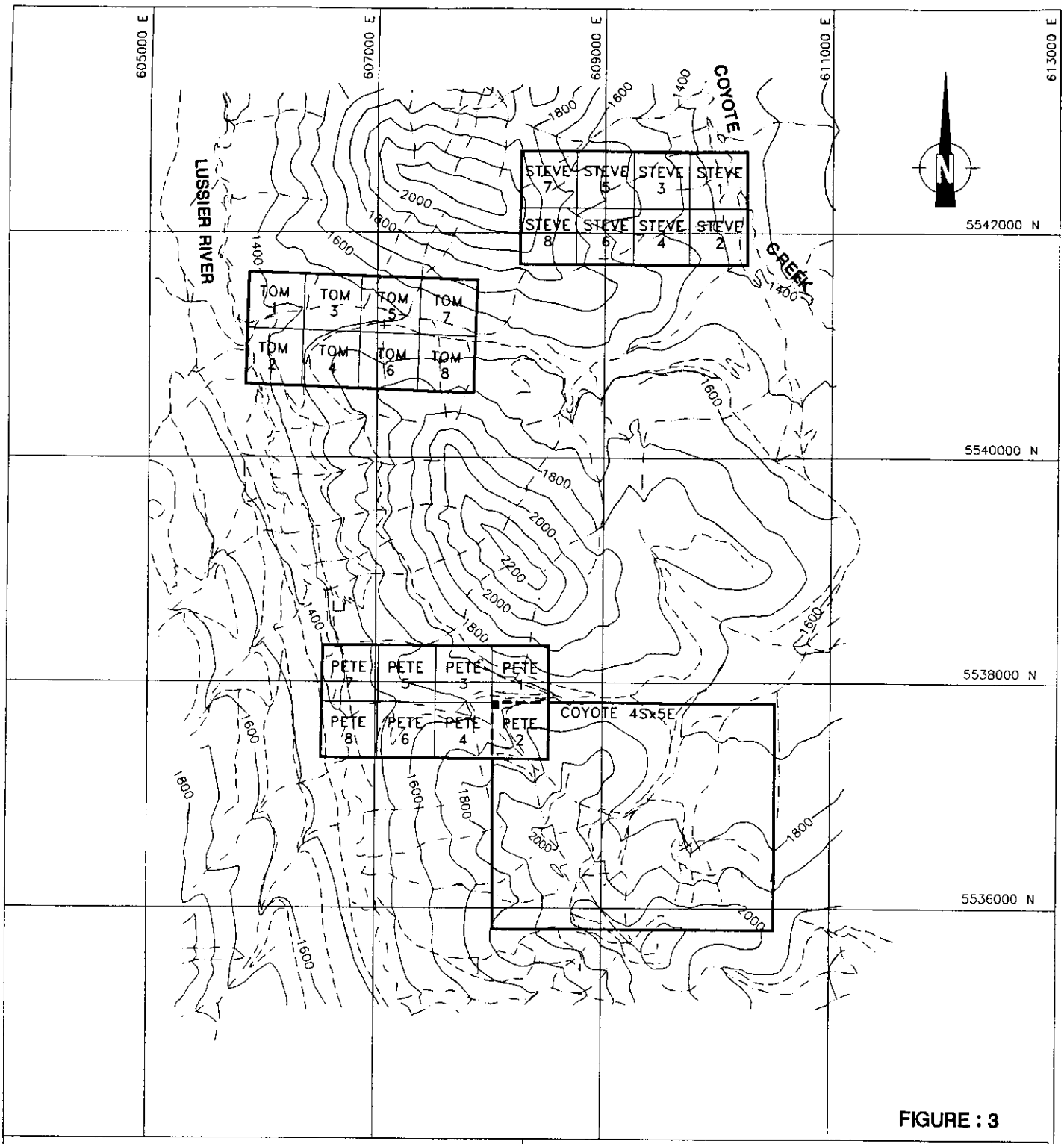


FIGURE : 3

TECK EXPLORATION LTD.

COYOTE PROPERTY

CLAIM MAP

0 1000 2000 3000

metres

DATE DRAWN: APR. 27, 1992	SCALE: 1:50,000	DWG. NAME: COY-CLMS
COMPILED BY: S.J.	JOB No: 1711	
DRAWN BY: L.M./S.A.	NTS:82G/14W,13E;82J/3W,4E	

5. PREVIOUS WORK and HISTORY

Previous work in the area is restricted to industrial minerals, mainly gypsum. Domtar Construction Material's Lussier River gypsum quarry, located ≈ 3 kilometres north of the claims, has been in production since 1984 with limited production from their 'South quarry' about 750 metres to the south. Work by Trurock Gypsum Products south of the current Tom claims suggests a reserve potential of 40 million tonnes with a gypsum content of 80%. Additional gypsum prospects are located proximal to the claims and have been worked by various companies. No recorded work of base metal exploration in the area has been uncovered.

6. 1991 PROGRAM

In 1991, 23 mandays were spent on the Coyote property between June 28 and September 5. The program consisted of soil sampling and limited 1:20,000 geological mapping with concurrent rock chip and stream sampling.

Six kilometres of creek bank soils along nine separate traverse lines were collected totalling 151 samples. In addition, 11 rock chip and 11 moss mat samples were collected.

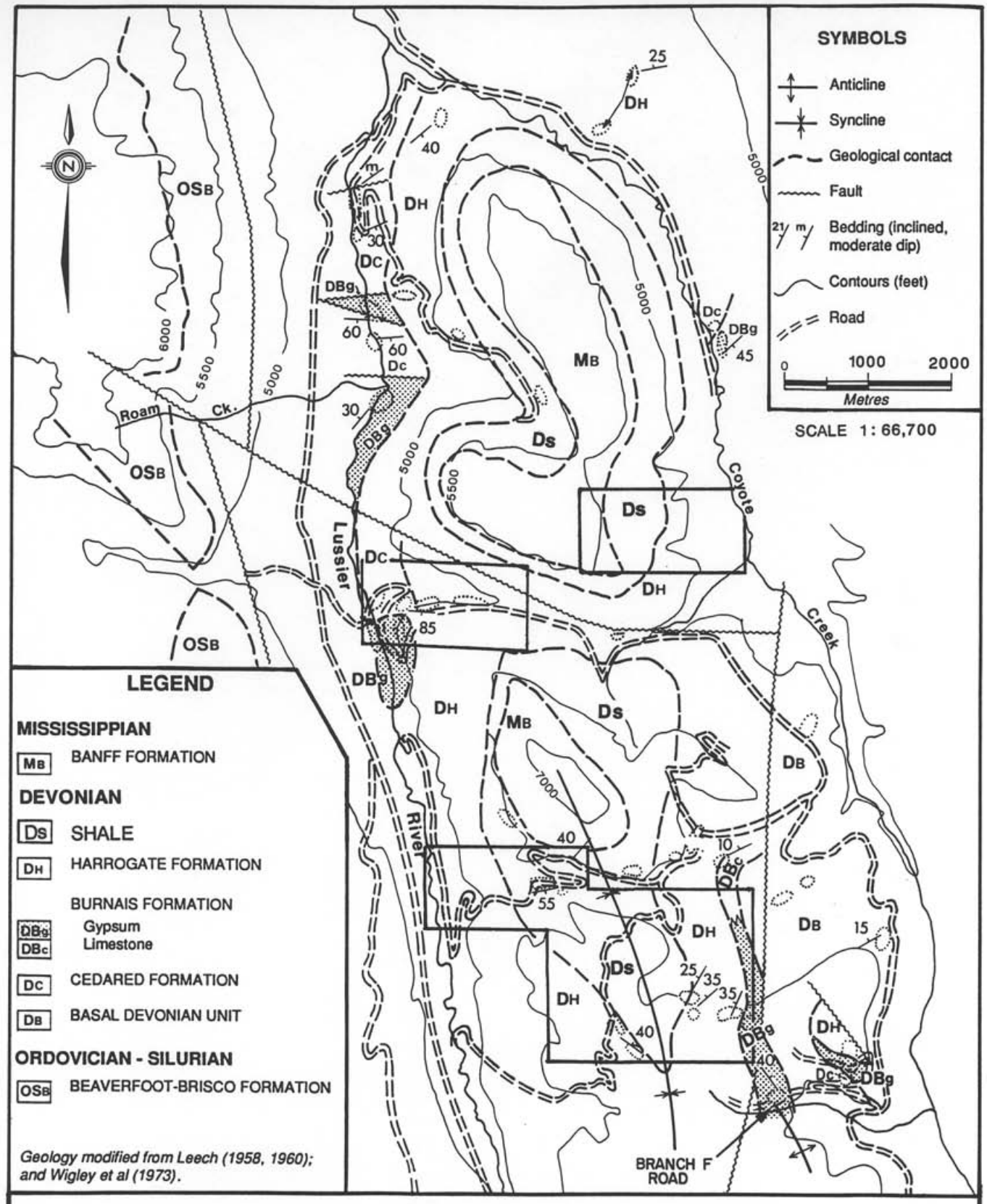
Mapping was done with topofil, compass and altimeter. Outcrop exposure on the property is variable, with logging roads and skid trails providing valuable access.

7. GEOLOGY

A. Regional Geology (Figure 4)

The Lussier - Coyote region has been mapped on several occassions by the federal and provincial governments since mid century. The two most recent mapping projects are 'Geology of the Fernie W½ Map Sheet (And Part of Nelson E½)' by T. Hoy and G. Carter of the B.C MEMPR in 1988 (Open File Map No. 1988-14) and 'Kananaskis Lakes' by G.B. Leech of the Geological Survey of Canada in 1979 (Open File 634).

This work indicates the Coyote property is predominantly underlain by Devonian carbonate and clastic rocks. The Devonian stratigraphy consists of the (oldest?) Basal Devonian Unit quartzites, argillaceous limestone and limestone. This is overlain by Middle Devonian Cedared Formation dolomites, sandstones and limestones and the laterally equivalent Burnais Formation evaporites (gypsum and



Geological setting of the Lussier River–Coyote Creek area, Stanford Range.

REGIONAL GEOLOGY

FIGURE : 4

anhydrite). The youngest Devonian unit underlying the region is the Middle to Upper Devonian Harrogate Formation limestones and shales.

The Devonian strata unconformably overlie or are in structural contact with the Ordovician-Silurian Beaverfoot-Brisco Formation limestones and dolomite. Overlying the Devonian rocks are limestones and chert of the Mississippian Banff and Rundle Formations.

Structurally, the Lussier-Coyote area is dominated by a gentle north-plunging open syncline, with its north-northwest trending axis located along the height of land separating Coyote Creek and Lussier River. Leech (1954) interpreted the Lussier Syncline to occupy a graben-like structure with bounding high angle normal faults separating Silurian to Mississippian strata from Ordovician and Cambrian rocks. More recent mapping by T. Hoy and G. Carter of the B.C. MEMPR (1988) indicated a northwest-trending thrust fault (Lussier Creek Fault) separating predominantly Devonian strata from predominantly Cambrian strata. Numerous northwest-trending folds and thrusts dominate to the east. The north-northwest trending Rocky Mountain Trench Fault is located roughly 15 kilometres to the west.

The area surrounding the Coyote property is host to few mineral showings or occurrences.

B. Property Geology (Figures 5 & 6)

The Coyote property area can be divided into 5 major formations or mappable units. (Figures 5 & 6). Of the five units, three have been tentatively identified on the claims. Identification of the units is preliminary in nature, due to limited work to date. Detailed geological mapping planned for 1992 will define the stratigraphy in detail.

Devonian Harrogate Formation limestones and shales underlie a majority of the property mapped to date. Middle Devonian gypsum evaporites of the Burnais Formation are found locally within the claims. Outcrop exposure at lower elevations is sparse due to extensive glacial overburden. Limestones and cherts of the Mississippian Banff and Rundle Formations are found locally at higher elevations.

Units 2,4 and 5 (Figures 5 & 6) are described individually.

Unit 2 : Burnais Formation

Unit 2 is a light to medium grey, fine grained evaporite, composed predominantly of gypsum. It is commonly finely laminated with white and grey laminations of 0.5-2mm.

Unit 4 : Harrogate Formation

This Upper Devonian unit is comprised of limestones and shales. Limestones are commonly light to dark grey and black. Locally, limestones are brownish, banded, bioturbated and contain variable quantities of sand and silt. The shales are brown, grey and black. The black shales (subunit 4a) are locally rusty and pyritic and can contain sandy laminations. The brown shales are commonly limy and sandy. Locally, the shales and limestones are intercalated.

Unit 5 : Banff and Rundle Formations

Unit 5 consists of Mississippian limestones, cherts and quartzites. Limestones are fine-grained, dark grey and locally silty. Chert generally occurs as lenses and nodules; quartzites are found to lie at the base of the unit. The contact relationship with the underlying Devonian strata is not known at present.

I. Steve Claims

The Steve claims were staked to cover the drainage with the highest 1991 RGS zinc response, 5500 ppm Zn. Mapping has identified two belts of black shale stratigraphy within the claims. The lower black shale sequence contains elevated rock, soil and stream zinc results (described in detail later). Outcrops are fairly recessive and not laterally extensive. The upper black shale sequence, located 750 metres to the west, also contains elevated bedrock zinc values. The area between the black shale horizons consists of limestones and limy mudstones of the Harrogate Formation. The contacts and unit identification is preliminary as mapping was of a reconnaissance scale and few outcrops were identified. Detailed mapping is required to delineate the units and contacts. Overlying the upper black shales are Mississippian limestones and quartzites. The contacts appear to trend northerly and follow topography, most likely indicating shallow dips of the beds.

II. Tom Claims

Extensive overburden cover has precluded the mapping of outcrops on the low-lying Tom claims. Only two outcrops were noted, one limestone and the other gypsum. Black shale stratigraphy has not been identified, however further detailed mapping is required upslope in the southeast portion of the claims. Anomalous stream samples from this area could be coming from an upslope black shale source. The limestone was found to strike northerly and dip at a shallow angle to the east.

III. Coyote and Pete Claims

Mapping on the Coyote and Pete claims identified an arcuate northwest-trending belt of black shales, identified over a distance of two kilometres with a width of $\approx$ 400 metres extending from the southeastern corner of the Coyote claim to the eastern Pete claims. The shales strike northwesterly with moderate northeast and southwest dips. The government has mapped a regional syncline through this area with the axis running northerly through the center of the claims. Preliminary mapping to date seems to confirm the structure as indicated by the limb dips. Dips are found to be higher than expected and this may be due to a possible fault transecting the syncline. This interpretation is supported by strong cleavages noted in the shales. Enveloping the black shales are limy brown shales and limestones.

This area is encouraging due to the presence of black shales with coincident soil and stream zinc anomalies. The limited samples of the black shales collected returned subeconomic values.

The overlying Mississippian limestones and cherts are not exposed and are likely eroded as the shales outcrop at the top of the ridge. One outcrop of gypsum was located in the southeastern corner of the Coyote claim.

IV. Mineralization and Alteration

A total of 11 rock samples were collected on the Coyote, Steve and Pete claims. Sample locations are shown on Figures 5 & 6 with rock sample descriptions provided in Appendix V. Samples were sent to Acme Analytical Laboratories Ltd. in Vancouver, B.C. and analysed for 29 elements by ICP (Ag, Al, As, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, Ti, U, V, W, Zn) and gold by fire assay and atomic absorption. Analytical Procedures are included in Appendix IV and Certificates of Analyses in Appendix III.

Three rock samples were collected from black shales within the Steve claims. Sample 20138 was collected from a bank along Steve Creek and returned an anomalous value of 838 ppm Zn. This sample is located in the lower black shale sequence and proximal to anomalous moss mat samples M20139 and S2-850MM. Two additional anomalous samples from black shales were collected from the upper black shale horizon and returned 831 ppm and 1649 ppm Zn, respectively (samples 20222 & 20223). These three samples also contain elevated cadmium. The anomalous zinc results from the rock samples are unique as bedrock samples from the rest of the property are not greatly enriched in zinc.

Eleven rock samples were collected from the Coyote and Pete claims, most from the central, northwest-trending black shale sequence. Low zinc results were returned with the highest value 354 ppm Zn (sample 20137). No visible mineralization was noted in the rocks except for local pyrite. A grab of limestone with possible yellow sphalerite returned a value of 818 ppm Zn (sample 20140).

No rock samples were collected from the Tom claims due to lack of outcrop.

No significant alteration was noted within the black shales or limestones. Associated sedex indicator elements such as barium and manganese were not elevated.

8. MOSS MAT STREAM SAMPLES (Figures 5 & 6)

A total of 11 moss mat stream samples were collected from the property. They were collected upstream from anomalous RGS stream zinc results and from streams draining black shale. The Steve claims cover the drainage with the highest RGS zinc result, 5500 ppm Zn. Follow-up sample M20139 was collected roughly 600 metres upstream from the RGS sample in ground underlain by black shales, and returned 2166 ppm Zn. An additional sample was taken at the same site to confirm the anomaly and it returned 2307 ppm Zn (sample S2-850MM).

Three moss mat samples were collected from the Tom claims following up an RGS result of 380 ppm Zn. Two were collected along the main Tom Creek and returned values of 879 ppm and 1104 ppm Zn, respectively (samples M20129 & M20130). A sample off a south branch of Tom Creek returned 4084 ppm Zn (sample MM-01-T-1890) while a moss 250 metres south of the Tom claims returned 2718 ppm Zn (sample M20179). The above two strongly anomalous samples were taken from streams draining probable upslope black shales (abundant shale talus in the creeks).

Five moss mat stream samples were collected from the Coyote and Pete claims. A promising feature of this area is the trend of anomalous zinc stream results from the main drainage (RGS result of 1600 ppm Zn). The zinc stream results increase upstream with the highest results being encountered in ground underlain by black shales, indicating a probable black shale source for the anomalies. The sample results, in an upstream direction, consist of 1812 ppm Zn (sample M20135), 2137 ppm Zn (sample M20134), 2080 ppm Zn (sample M20133), 5414 ppm Zn (sample M298) and 8342 ppm Zn (sample M20199).

9. SOIL GEOCHEMISTRY (Figures 5 & 6)

Nine separate soil traverses totalling six kilometres were carried out along banks of anomalous stream drainages and over favourable black shale stratigraphy. Flagged lines were established by topofil and compass with slope corrected stations established every 50 metres and marked on flagging. Lines were run concurrent with soil sampling.

A total of 151 soil and 11 moss mat samples were collected and sent to Acme Analytical Laboratories Ltd. in Vancouver, B.C. and analysed for 29 elements by ICP (Ag, Al, As, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, Ti, U, V, W, Zn) and gold by fire assay and atomic absorption. Soil samples were collected using a shovel from the 'B' horizon, which generally occurred at a depth of 15-40 centimetres. Soils were often sandy and commonly contained abundant angular shale fragments. All soils were collected in Kraft bags and allowed to air dry before shipment to the lab. Sample locations are shown on Figures 5 & 6. For a complete list of results see Appendix III - Certificates of Analyses. Analytical procedures are included in Appendix IV. A complete list of soil sample descriptions is provided in Appendix VI.

A. Results

Soil geochemical results of the Teck 1991 program identified several anomalous base metal zones. Zinc soil results are plotted on Figures 5 & 6. With a low sample population, a statistical analysis was not undertaken and anomalous thresholds were determined by visual inspection of the results. For the Steve claims a 500 ppm Zn contour was used while a 750 ppm Zn contour was used for the Coyote and Pete claims due to slightly higher background zinc values.

Several anomalous zones were outlined by two parallel bank traverses along Steve Creek, the drainage with the highest RGS zinc value (5500 ppm Zn). The first interesting area is the lower black shale sequence. Anomalous soil values (up to 1552 ppm Zn) are coincident with anomalous rock and moss mat

samples from the same area. A second anomalous zone is located just below the upper shale sequence and contains values up to 869 ppm Zn. The anomalies may be due to down slope dispersion of the anomalous upslope black shale. A three-point anomaly occurs between the two shale sequences in an area of black shale talus. Further detailed work is required to delineate the anomalous zones.

Similarily, two bank soil traverses were carried out along Tom Creek with background zinc results returned. The traverses may have been downslope from the shale horizon as two anomalous stream samples respond from creeks draining possible upslope black shales. Further investigation is warranted in this area.

Five soil traverses were carried out in the Coyote and Pete claim area, predominantly along the two branches of the strongly zinc anomalous central drainage. Two anomalous zones were outlined with results up to 6066 ppm zinc from the upper zone and 1894 ppm Zn from the lower (northern) zone. Soil anomalies also occur within the northwest-trending belt of favourable black shales. The northern zinc anomaly is coincident with a 8342 ppm Zn stream sample (sample M20199) and proximal to black shale outcrops. Further detailed work is required in this area.

A local road bank soil traverse, carried out in the southeastern edge of the known black shales, returned background zinc.

10. CONCLUSION

Results from the 1991 program were encouraging.

Geological mapping has shown the property to be largely underlain by Devonian shales and limestones with Mississippian limestones found at higher elevations. Favourable black shale stratigraphy has been outlined on the Coyote, Pete and Steve claims.

Mapping on the Steve claims has outlined two black shale horizons. Rock samples from the upper black shales returned values up to 1649 ppm Zn. The lower black shale sequence returned 838 ppm Zn from a rock chip sample with coincident stream (2307 ppm Zn) and soil (1552 ppm Zn) anomalies from the same area. Additional zinc soil anomalies were delineated along the main drainage through the center of the claims.

Initial mapping on the Tom claims has failed to reveal black shales. Two soil traverses did not return

anomalous zinc values. However two anomalous (up to 4084 ppm Zn) moss mat stream samples from the southeastern portion of the claims may indicate an anomalous upslope black shale source.

Mapping on the Coyote and Pete claims has outlined a 2km x 400m belt of black shales. Coincident anomalous stream and soil zinc results were delineated on ground underlain by the arcuate zone of black shales. Moss mat stream results increased upstream toward the black shale source and contained values up to 8342 ppm Zn. Two anomalous soil zones were outlined with values up to 6066 ppm Zn.

11. REFERENCES

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9. Okulitch, A.V. and Woodsworth, G.J.(1977): Kootenay River; Geological Survey of Canada, Open File 481.

10. Wigley, T.M.L. et al (1973): Geomorphology and Geochemistry of a Gypsum karst near Canal Flats, British Columbia; Canadian Journal of Earth Sciences, Volume 10, Number 2.

APPENDIX I

Statement of Qualifications

I, Steve Jensen, do hereby certify that:

1) I am a geologist and have practised my profession for the past five years.

2) I graduated from University of British Columbia, Vancouver, British Columbia with a Bachelor of Sciences degree in Geology (1987).

3) I was actively involved in the Coyote Property program and authored the report contained herein.

4) All data contained within this report and conclusions drawn from it are true and accurate to the best of my knowledge.

5) I hold no personal interest, direct or indirect in the Coyote Property which is the subject of this report.

Steve Jensen
Project Geologist
May, 1992

APPENDIX II

Cost Statement

COYOTE PROPERTY

COST STATEMENT

1. Geology
(includes preparation,field plotting,travel days)

COYOTE AND PETE CLAIMS

A. Randy Farmer (Geologist)
6 days @ $241.67/day $1450.02
June 28,July (18),19,20,21,Sept(2)

B. Peter Procter (Geologist)
4 days @ $181.25/day $725.00
June 30,July (18),19,20

C. Graeme Evans (Geologist)
½ day @ $253.75/day $126.88
Sept 5(½)

Subtotal $2301.90

STEVE CLAIMS

A. Steve Jensen (Geologist)
2 days @ $211.46/day $422.92
June 28,30

B. Randy Farmer (Geologist)
1 day @ $241.67/day $241.67
Sept 4

Subtotal $664.59

TOM CLAIMS

A. Randy Farmer (Geologist)
½ day @ $241.67/day $120.84
Sept 5(½)

B. Peter Proctor (Geologist)
2 days @ $181.25/day $362.50
June 28,July 21

C. Graeme Evans (Geologist)
1 day @ $253.75/day $253.75
Sept (2)

Subtotal $737.09

( ) Denotes non-field days

2. Soil Survey

COYOTE AND PETE CLAIMS

A.	Ted Archibald (Prospector) 1 day @ $179.20/day Sept 3	$179.20
B.	Randy Farmer (Geologist) 1 day @ $241.67/day Sept 3	$241.67
C.	Graeme Evans (Geologist) 1 day @ $253.75/day Sept 3	$253.75
		Subtotal $674.62

STEVE CLAIMS

A.	Graeme Evans (Geologist) 1 day @ $253.75/day Sept 4	$253.75
B.	Ted Archibald (Prospector) 1 day @ $179.20/day Sept 4	$179.20
		Subtotal $432.95

TOM CLAIMS

A.	Randy Farmer (Geologist) ½ day @ $241.67/day Sept 5(½)	$120.84
B.	Graeme Evans (Geolgist) ½ day @ $253.75/day Sept 5(½)	$126.88
		Subtotal $247.72

3. Analytical = Acme Analytical Labs, Vancouver, B.C.

COYOTE AND PETE CLAIMS

A.	Rock samples 8 @ $14.62 ea. (29 el. ICP & Au)	$116.92
B.	Soil samples 57 @ $12.10 ea. (29 el. ICP & Au)	$689.70
C.	Moss Mat samples 5 @ $12.10 ea. (29 el. ICP & Au)	$60.50
		Subtotal $867.12

STEVE CLAIMS

A.	Rock samples 3 @ $14.62 ea. (29 el. ICP & Au)	$43.86
B.	Soil samples 54 @ $12.10 ea. (29 el. ICP & Au)	$653.40
C.	Moss Mat samples 2 @ $12.10 ea. (29 el. ICP & Au)	$24.20
		Subtotal $721.46

TOM CLAIMS

A.	Soil samples 40 @ $12.10 ea. (29 el. ICP & Au)	$484.00
B.	Moss Mat samples 4 @ $12.10 ea. (29 el. ICP & Au)	$48.40
		Subtotal $532.40

4. Food and Accommodation

A. Food
$25.00/manday x 23 mandays (June 28-Sept 5,1991) — $575.00

B. Accommodation
10 days @ $30.00/day for crew — $300.00

Subtotal $875.00

5. TRANSPORTATION

4x4 Nissan Pathfinder
10 days @ $65.00/day
(includes fuel,insurance,repairs)

Subtotal $650.00

6. FREIGHT AND SHIPPING

Sample shipments, correspondance etc.

Subtotal $150.00

7. FIELD SUPPLIES

Sample bags,flagging,topo thread etc.

Subtotal $350.00

8. DRAFTING

A. Base map preparation (Able Drafting)
10 hrs. @ $30/hr — $300.00

B. Drafting (Steve Archibald)
10 hrs. @ $30/hr — $300.00

C. Prints, Enlargments — $50.00

Subtotal $650.00

9. Report Writing and Typing

A. Steve Jensen (Geologist)
6 day @ $211.46/day

Subtotal $1268.76

The sum of the costs of sections 4 thru 9 = **$3943.76**

This partially totalled cost will be apportioned among the claims based on unit amounts of each of the three groups (44 units total).

Coyote and Pete Claims	: 28 units / 44 units = 64% x $3943.76 =	**$2524.00**
Steve Claims	: 8 units / 44 units = 18% x $3943.76 =	**$709.88**
Tom Claims	: 8 units / 44 units = 18% x $3943.76 =	**$709.88**

The partially totalled costs of sections 1 thru 3 are as follows :

	Geology	**Soil Survey**	**Analytical**	**Subtotal**
Coyote and Pete Claims	$2301.90	$674.62	$867.12	**$3,843.64**
Steve Claims	$ 664.59	$432.95	$721.46	**$ 1819.00**
Tom Claims	$ 737.09	$247.72	$532.40	**$ 1517.21**

TOTAL COSTS 1991 PROGRAM :

Coyote & Pete Claims : $3,843.64 (Sections 1-3)
$2,524.00 (Sections 4-9)
$6,367.64

Steve Claims : $1,819.00 (Sections 1-3)
$ 709.88 (Sections 4-9)
$2,528.88

Tom Claims : $1,517.27 (Sections 1-3)
$ 709.88 (Sections 4-9)
$2,227.09

APPENDIX III

Certificates of Analysis

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

"ROCK SAMPLES"
3 ONE SOIL (S20200)

GEOCHEMICAL ANALYSIS CERTIFICATE

Teck Exploration (BC) PROJECT 1389-4 File # 91-2168 Page 1

960 - 175 - 2nd Ave, Kamloops BC V2C 5W1 Submitted by: R. FARMER

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
20099	35	19	7	218	.1	71	6	59	.89	9	6	ND	1	13	1.5	2	2	33	.22	.032	5	8	.03	69	.01	6	.15	.01	.08	1	9
20137	39	47	45	354	.4	55	4	25	1.90	23	8	ND	5	33	2.2	4	2	28	.62	.023	2	8	.13	158	.01	16	.44	.03	.32	1	5
20140	1	6	7	818	.2	4	2	180	.43	4	5	ND	1	252	2.6	2	2	1	35.75	.006	2	7	.17	168	.01	4	.08	.02	.06	1	3
20251	25	42	19	8	.4	42	8	26	5.24	106	13	ND	2	154	.7	2	2	47	9.31	3.431	136	27	.15	65	.01	51	1.17	.05	.66	1	3
20138	48	54	12	838	1.8	153	9	137	1.50	28	7	ND	2	34	13.4	12	2	349	2.56	.034	7	17	.49	267	.01	15	.69	.01	.18	1	4
20182	31	42	25	346	.4	93	13	60	1.69	24	10	ND	2	22	3.4	6	2	56	1.09	.057	5	8	.08	97	.01	14	.40	.01	.20	1	6
20183	146	66	6	58	.1	69	1	2	1.24	94	29	ND	4	25	8.3	30	2	1466	.11	.132	6	3	.03	89	.01	18	.61	.01	.21	1	4
20184	49	25	9	23	.5	52	1	11	.49	19	5	ND	3	7	1.1	16	2	565	.05	.004	2	7	.04	120	.01	26	.51	.01	.21	1	2
20185	28	11	6	11	.2	24	1	19	.57	15	8	ND	2	12	.8	4	2	152	.06	.014	2	9	.01	61	.01	7	.12	.01	.13	2	1
STANDARD C/AU-R	19	59	36	128	7.3	69	32	1055	3.90	40	19	7	41	52	17.3	15	19	57	.47	.090	38	56	.88	170	.09	31	1.83	.06	.15	12	481
C 20222	24	61	12	831	6.5	84	4	71	1.35	13	5	ND	2	56	23.0	9	2	254	1.85	.406	11	32	.44	201	.01	32	.83	.01	.31	2	
C 20223	33	51	7	1649	2.1	106	5	124	1.34	17	5	ND	4	71	55.2	17	2	364	1.62	.088	9	22	.72	294	.01	22	.62	.01	.25	5	
S20200 *	74	25	16	544	.2	80	8	98	2.75	44	5	ND	2	8	1.8	15	2	464	.04	.060	6	19	.14	59	.01	10	.98	.01	.14	3	10

* SOIL SAMPLE

ICP - .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 SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1 ROCK P2 MOSS MAT P3 SILT AU** ANALYSIS BY FA/ICP FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 1 1991 DATE REPORT MAILED: July 5/91. SIGNED BY. D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

"MOSS MAT SAMPLES"

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Teck Exploration (BC) PROJECT 1389-4 File # 91-2275 Page 1

960 - 175 - 2nd Ave, Kamloops BC V2C 5W1 Submitted by: R. FARMER

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
M20129	1	6	3	879	.2	43	2	151	.44	4	5	ND	1	193	6.9	2	2	17	23.50	.039	3	5	.67	260	.01	13	.39	.01	.08	1	9
M20130	5	16	8	1104	.2	90	4	290	.95	10	5	ND	2	150	15.2	3	2	60	18.11	.064	6	9	.71	265	.01	12	.59	.02	.10	1	5
M20133	2	13	8	2080	.3	182	3	340	.80	6	5	ND	1	79	50.2	3	2	63	8.24	.105	6	9	.68	237	.02	21	.84	.02	.12	1	3
M20134	4	20	10	2137	.3	173	9	258	1.40	15	5	ND	2	91	28.8	2	2	52	11.47	.087	9	10	1.19	198	.01	16	.72	.02	.12	1	3
M20135	3	19	8	1812	.2	131	7	230	1.09	9	5	ND	2	103	23.9	2	2	40	15.75	.071	7	8	1.27	198	.01	14	.59	.02	.09	1	5
M20139	26	26	9	2166	.5	219	4	120	.97	18	5	ND	2	94	55.6	9	2	193	13.12	.064	4	10	.24	156	.01	18	.42	.01	.16	1	5

Teck Exploration (BC) PROJECT 1389-4 FILE # 91-3059 Page 3

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
M20199	19	26	16	8342	.6	1029	11	267	1.52	25	5	ND	1	50	135.7	14	2	245	2.15	.153	7	15	.69	105	.01	17	.93	.01	.16	5	1
M 20179	7	20	8	2718	.5	258	4	142	.90	11	5	ND	2	175	63.7	4	2	88	17.80	.103	7	11	1.05	161	.01	11	.47	.02	.16	1	6

Teck Exploration (BC) PROJECT 1389-4 FILE # 91-2168 Page 2

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
M298	12	28	21	5414	.4	500	7	205	1.48	15	5	ND	1	52	74.7	5	2	122	4.41	.088	8	14	.95	159	.01	16	.74	.01	.11	23	8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
MM-01-T-1890	13	25	11	4084	.3	370	7	261	1.72	15	5	ND	1	73	62.7	5	2	134	4.90	.098	9	11	.86	170	.01	15	.77	.01	.13	23
S2-850MN	30	26	10	2307	.3	198	4	98	1.09	20	5	ND	1	92	44.8	13	2	150	12.15	.061	2	5	.19	128	.01	11	.31	.01	.19	12
RE MM-01-T-1890	12	24	11	4012	.3	365	6	255	1.65	15	5	ND	1	72	61.3	4	2	127	4.80	.094	9	10	.82	168	.01	16	.73	.01	.12	22

Samples beginning 'RE' are duplicate samples.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

* SOILS *
A,B,C,D = COYOTE CLAIM
S1,S2 = STEVE CLAIM
T,T2 = TOM CLAIMS

GEOCHEMICAL ANALYSIS CERTIFICATE

Teck Exploration (BC) File # 91-4210 Page 1

960 - 175 - 2nd Ave, Kamloops BC V2C 5W1 Submitted by: RANDY FARMER

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
A 0+00	18	19	15	368	.3	65	9	95	1.85	17	5	ND	4	13	4.7	4	2	176	.16	.136	9	13	.18	153	.02	10	1.56	.01	.15	3
A 0+50	41	27	19	206	.3	59	9	103	2.33	24	5	ND	2	12	2.5	9	2	333	.10	.054	7	13	.11	144	.01	12	.88	.01	.17	1
A 1+00	35	15	21	353	.1	72	7	159	1.75	29	5	ND	2	14	5.2	12	2	540	.10	.057	6	18	.14	236	.02	11	1.60	.01	.17	2
A 1+50	46	20	22	504	.1	85	5	55	2.29	32	5	ND	3	22	4.0	15	2	512	.11	.126	7	19	.18	230	.03	11	1.83	.01	.17	3
A 2+00	71	17	25	447	.2	62	4	67	2.91	50	5	ND	4	24	2.5	21	2	740	.12	.169	6	25	.18	314	.03	13	2.69	.02	.18	3
A 2+50	113	23	39	366	.3	89	5	51	2.86	46	5	ND	3	22	.8	24	2	359	.04	.045	6	14	.13	332	.01	9	1.29	.01	.19	2
A 3+00	70	31	37	689	.2	79	8	88	2.95	58	5	ND	2	13	1.4	18	2	430	.02	.047	8	21	.18	148	.01	7	1.43	.01	.14	4
A 3+50	22	7	21	305	.1	38	5	143	2.27	18	5	ND	1	16	1.6	6	2	147	.18	.019	6	12	.14	288	.01	9	1.16	.01	.14	1
A 4+00	33	11	17	354	.3	33	3	62	1.98	24	5	ND	2	14	4.1	7	2	443	.05	.214	8	18	.12	162	.06	7	1.96	.02	.12	2
A 4+50	27	15	17	846	.2	86	12	150	2.45	21	5	ND	1	24	7.7	4	2	225	.09	.097	13	18	.24	209	.02	11	1.91	.01	.16	5
A 5+00	9	13	14	485	.1	46	11	398	2.35	9	5	ND	1	14	3.1	2	2	71	.15	.025	9	14	.18	196	.02	9	1.63	.01	.16	3
A 5+50	31	35	12	258	.1	75	14	122	2.96	19	5	ND	1	8	1.1	3	2	47	.20	.026	9	8	.10	80	.01	11	.76	.01	.14	1
A 6+00	19	23	17	462	.1	81	12	270	2.39	19	5	ND	2	15	3.5	4	2	142	.25	.025	13	18	.78	129	.02	11	1.55	.01	.18	2
A 6+50	11	19	11	136	.1	49	11	120	2.27	10	5	ND	3	9	.6	2	2	43	.19	.014	12	13	.21	97	.02	9	1.41	.01	.13	1
A 7+00	18	41	23	218	.3	86	12	204	2.69	18	5	ND	2	35	1.5	2	2	57	3.51	.042	18	17	1.09	108	.01	11	1.24	.01	.19	1
A 7+50	10	24	16	222	.1	68	12	194	2.86	10	5	ND	5	19	.6	2	2	42	.50	.018	21	20	1.11	179	.05	10	2.53	.02	.20	1
B 6+00W	28	20	12	1516	.2	98	18	204	2.72	26	5	ND	3	6	7.9	8	2	372	.05	.028	12	24	.37	139	.01	11	2.03	.01	.13	8
B 5+50W	82	106	19	1894	.1	224	15	208	5.02	56	19	ND	2	28	41.5	31	2	531	.09	.168	10	20	.22	208	.01	13	1.93	.01	.20	10
B 5+00W	13	16	5	607	.7	57	8	73	2.32	27	5	ND	3	10	6.0	8	2	261	.08	.170	10	16	.13	133	.08	6	3.60	.02	.08	4
B 4+50W	45	31	24	572	.3	60	9	96	1.97	27	5	ND	1	18	10.0	10	2	312	.10	.051	9	14	.17	149	.01	11	.93	.01	.16	3
B 4+00W	23	9	22	217	.4	22	3	41	1.76	15	5	ND	2	8	1.1	3	2	221	.03	.054	9	17	.14	85	.03	7	1.45	.01	.11	1
B 3+50W	48	27	25	721	.2	68	11	161	2.39	30	5	ND	2	13	6.0	10	2	285	.07	.055	9	17	.15	189	.01	12	1.46	.01	.15	4
B 3+00W	34	22	20	624	.1	67	15	194	2.02	25	5	ND	2	13	2.9	7	2	285	.06	.063	6	16	.16	175	.03	7	1.85	.01	.12	3
B 2+50W	44	14	23	328	.1	34	3	91	1.98	31	5	ND	2	7	1.1	10	2	410	.04	.040	8	22	.15	83	.01	7	1.33	.01	.13	2
B 2+00W	26	17	16	714	.4	60	5	73	1.99	25	5	ND	3	8	3.0	8	2	360	.05	.070	10	21	.21	127	.01	8	1.59	.01	.13	4
B 1+50W	50	18	24	558	.4	54	7	168	2.04	29	8	ND	3	13	6.1	13	2	372	.08	.079	7	16	.13	166	.01	15	1.11	.01	.18	3
RE B 3+50W	48	27	21	723	.2	68	11	161	2.40	30	5	ND	2	13	6.0	10	2	284	.07	.057	9	16	.15	191	.01	11	1.45	.01	.15	4
B 1+00W	60	20	22	486	.3	52	5	65	2.36	36	5	ND	1	17	5.6	18	2	408	.06	.134	8	15	.17	183	.02	8	1.37	.01	.16	3
B 0+50W	44	15	24	465	.2	46	6	105	2.22	23	5	ND	2	19	4.3	13	2	386	.09	.146	10	19	.26	163	.02	9	1.28	.01	.17	3
B 0+00S	16	15	15	495	.2	43	6	132	2.15	22	5	ND	3	16	9.8	8	2	446	.12	.201	11	22	.19	119	.04	9	2.05	.01	.12	2
C 0+50S	29	22	15	996	.3	69	14	246	2.54	22	5	ND	2	17	8.3	6	2	257	.31	.062	12	16	.24	152	.01	13	1.23	.01	.14	5
C 1+00S	44	38	19	754	.2	94	15	249	2.64	37	5	ND	1	10	8.4	12	2	408	.11	.077	8	19	.13	106	.01	9	1.29	.01	.14	4
C 1+50S	35	30	18	1039	.1	122	11	102	3.23	22	5	ND	1	6	5.9	4	2	208	.10	.059	7	14	.10	117	.01	12	1.30	.01	.12	5
C 2+00S	19	42	16	700	.3	110	13	245	2.64	17	5	ND	4	20	28.9	4	2	92	.47	.102	18	15	.27	78	.01	9	.87	.01	.14	3
C 2+50S	38	47	19	602	.2	106	17	282	2.98	25	5	ND	2	26	21.8	8	2	183	.17	.068	13	12	.16	154	.01	8	.97	.01	.15	3
C 3+00S	25	38	19	355	.2	85	15	206	2.96	22	5	ND	1	16	2.9	3	2	49	.17	.059	12	10	.16	111	.01	6	1.06	.01	.12	2
C 3+50S	29	36	11	350	.1	71	13	114	3.44	19	5	ND	1	4	3.0	2	2	69	.02	.043	10	12	.13	75	.01	7	1.25	.01	.11	2
STANDARD C	17	62	42	133	6.9	71	32	1048	4.00	41	17	7	37	54	18.6	16	18	57	.49	.092	37	58	.87	179	.09	34	1.90	.06	.15	11

ICP - .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 SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: P1-P5 SOIL P6 MOSS MAT P7 ROCK Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: SEP 8 1991 DATE REPORT MAILED: Sept 12/91. SIGNED BY ..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
C 4+00S	18	11	13	463	.1	35	4	68	2.42	13	5	ND	5	9	3.3	2	2	351	.04	.080	7	21	.16	85	.04	5	2.02	.02	.09	4
C 4+50S	50	13	19	470	.3	45	4	52	2.48	20	5	ND	3	25	7.6	3	2	518	.05	.225	12	24	.20	141	.02	7	1.76	.01	.16	3
C 5+00S	279	52	75	288	2.2	52	3	62	5.12	140	34	ND	8	114	20.6	31	2	1494	.05	.589	31	44	.18	157	.03	8	2.45	.03	.34	2
D 0+00S	49	35	17	261	.1	85	16	99	3.08	26	5	ND	1	8	.9	5	2	93	.17	.025	9	11	.10	85	.01	5	.82	.01	.12	1
D 0+50S	26	15	17	301	.4	106	8	65	1.92	11	5	ND	3	32	2.2	3	2	178	.25	.082	7	12	.22	296	.02	11	1.85	.01	.17	1
D 1+00SA	7	9	12	364	.1	40	8	131	2.11	15	5	ND	5	13	4.6	2	2	131	.12	.576	7	14	.14	149	.08	8	3.22	.03	.11	2
D 1+00SB	16	11	13	354	.2	34	8	102	1.89	8	5	ND	2	11	4.2	4	2	138	.12	.046	10	10	.17	238	.02	8	1.16	.01	.13	2
D 1+50S	29	16	14	571	.2	72	4	57	2.57	58	14	ND	5	17	4.6	25	2	720	.09	.433	8	22	.16	103	.08	6	3.24	.02	.10	3
D 2+00S	139	85	42	1015	.8	146	8	135	4.42	90	44	ND	8	48	19.2	59	2	1345	.15	.554	19	41	.25	303	.02	12	2.78	.02	.25	5
D 2+50S	82	29	29	767	.1	133	6	162	2.70	44	16	ND	4	24	20.2	21	3	900	.11	.189	10	31	.20	229	.03	10	2.13	.01	.18	1
D 3+00S	25	22	11	6066	.1	277	24	242	3.28	16	5	ND	5	48	34.1	5	2	174	1.03	.053	40	18	.16	285	.01	8	3.50	.01	.15	26
D 3+50S	9	10	10	498	.1	39	7	78	1.94	7	5	ND	2	8	3.6	2	2	51	.11	.038	12	11	.13	79	.02	5	1.37	.01	.09	3
D 4+00S	8	9	17	195	.1	27	5	63	2.26	3	5	ND	3	5	1.0	2	2	35	.07	.187	9	14	.14	86	.03	2	1.62	.01	.07	1
E 3+00W	2	11	8	54	.1	30	7	63	1.65	2	5	ND	1	12	.3	2	2	22	.22	.122	13	14	.35	74	.05	7	2.14	.02	.07	1
E 2+50W	1	11	8	55	.1	43	10	88	1.87	21	5	ND	3	13	.2	12	2	27	.18	.095	13	14	.35	94	.04	5	1.98	.02	.10	5
E 2+00W	3	8	9	123	.1	30	7	181	1.61	2	5	ND	3	12	.5	2	2	20	.20	.280	15	11	.18	129	.03	6	1.45	.01	.07	1
RE S1 0+00E	9	72	16	298	.5	128	7	104	2.84	10	5	ND	3	13	13.8	34	2	668	.18	.060	28	45	.22	737	.02	14	2.33	.02	.64	1
E 1+50W	4	14	17	91	.1	35	7	90	1.88	3	5	ND	3	15	1.1	2	3	62	.19	.272	16	15	.32	130	.10	3	3.18	.03	.08	1
E 1+00W	5	13	15	66	.2	38	8	50	2.15	13	5	ND	2	7	.3	3	2	29	.07	.360	11	12	.22	86	.03	5	1.94	.01	.06	1
E 0+50W	11	21	18	140	.1	71	12	115	2.39	17	5	ND	1	8	.4	4	2	37	.16	.103	15	12	.16	79	.01	2	1.12	.01	.08	2
E 0+00W	10	14	17	134	.1	45	8	77	2.20	5	5	ND	1	12	.7	2	3	36	.11	.176	13	15	.16	85	.04	2	2.08	.02	.07	1
S1 0+00E	10	76	15	315	.5	135	7	104	3.03	11	5	ND	4	14	14.4	37	2	702	.18	.061	29	46	.23	777	.02	17	2.51	.02	.67	1
S1 0+50E	2	7	6	122	.1	25	4	145	1.42	2	5	ND	2	7	1.1	2	2	60	.22	.012	14	23	.46	97	.02	4	1.48	.01	.14	1
S1 1+00E	11	28	10	869	2.8	73	8	197	1.84	8	5	ND	3	13	13.1	7	2	129	.47	.046	16	18	.30	156	.01	14	1.00	.01	.23	4
S1 1+50E	2	11	11	458	.1	22	6	913	1.26	2	5	ND	1	20	13.3	2	2	50	.93	.140	13	12	.31	368	.03	5	1.47	.02	.17	1
S1 2+00E	1	5	11	158	.1	23	6	114	1.72	3	5	ND	2	14	.8	2	2	30	.17	.027	9	15	.26	278	.10	3	2.77	.03	.07	1
S1 2+50E	1	5	5	118	.1	27	5	78	1.64	5	5	ND	2	16	.3	2	2	26	.19	.097	7	13	.18	144	.10	6	2.80	.03	.07	1
S1 3+00E	5	14	12	432	2.3	57	7	68	1.79	5	5	ND	3	20	2.9	2	2	59	.56	.078	16	8	.19	550	.03	11	1.52	.02	.14	2
S1 3+50E	17	12	15	806	.5	42	8	224	1.40	15	5	ND	2	22	7.2	13	2	184	.26	.118	8	11	.17	477	.02	9	1.28	.01	.16	4
S1 4+00E	19	10	11	872	.5	48	6	139	1.21	13	5	ND	1	16	3.9	6	2	208	.12	.063	7	11	.13	367	.02	10	1.35	.01	.13	4
S1 4+50E	24	11	11	703	.2	44	5	89	1.27	11	5	ND	1	15	3.4	10	2	394	.10	.041	12	17	.16	254	.01	9	1.41	.01	.14	4
S1 5+00E	23	18	13	273	.2	64	11	84	2.41	23	5	ND	2	9	1.2	6	2	106	.25	.017	15	9	.11	135	.01	6	.96	.01	.10	1
S1 5+50E	9	5	7	178	.1	38	5	72	1.32	5	5	ND	2	5	.4	2	2	19	.20	.009	16	9	.07	60	.01	4	.57	.01	.06	1
S1 6+00E	6	7	7	103	.1	36	7	170	1.88	5	5	ND	3	15	.3	2	2	19	.98	.014	19	11	.16	87	.02	12	1.03	.01	.16	1
S1 6+50E	4	13	9	173	.1	45	7	140	1.69	6	5	ND	1	25	.5	2	2	21	2.82	.038	19	11	.37	54	.01	8	.70	.01	.15	1
S1 7+00E	8	13	10	510	.3	38	8	451	1.68	7	5	ND	1	16	10.3	2	2	117	.32	.126	14	8	.17	730	.02	9	1.45	.01	.17	2
S1 7+50E	5	6	10	364	.3	23	7	278	1.46	3	5	ND	2	7	2.4	2	2	106	.06	.135	10	18	.21	225	.03	11	1.57	.01	.14	2
STANDARD C	19	58	35	132	6.9	71	32	1046	3.99	40	18	7	35	52	18.1	14	18	56	.48	.089	36	58	.89	178	.09	34	1.89	.06	.15	11

Samples beginning 'RE' are duplicate samples.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
S1 8+00E	16	18	13	334	.1	46	10	98	2.20	17	5	ND	7	8	3.7	5	2	106	.06	.056	18	15	.19	89	.01	9	.80	.01	.13	4
S1 8+50E	14	11	13	465	.2	39	6	94	1.69	11	5	ND	2	8	1.9	5	2	169	.07	.076	10	16	.18	162	.01	7	1.32	.01	.13	3
S1 9+00E	15	8	8	566	.2	34	4	115	1.31	12	5	ND	1	7	2.1	5	2	200	.06	.141	9	17	.16	135	.03	5	1.36	.01	.09	3
S1 9+50E	3	6	14	257	.5	19	6	152	1.54	6	5	ND	2	8	1.8	2	2	48	.09	.160	10	10	.12	141	.04	6	1.71	.02	.07	1
S1 10+00E	5	10	17	224	.1	34	8	351	1.80	6	5	ND	2	14	1.9	2	2	55	.36	.035	11	12	.20	155	.03	5	1.28	.02	.15	1
RE S1 12+50E	1	12	16	85	.1	23	8	318	2.36	4	5	ND	2	20	.2	2	2	29	1.54	.009	13	14	.43	284	.05	6	2.45	.02	.13	1
S1 10+50E	5	19	10	131	.1	38	12	110	2.75	9	5	ND	4	9	.5	2	2	44	.26	.008	13	18	.42	150	.02	6	1.52	.01	.13	1
S1 11+00E	2	13	9	70	.1	28	10	179	2.27	5	5	ND	2	11	.2	2	2	29	.36	.008	11	16	.35	127	.03	4	1.81	.02	.14	1
S1 11+50E	1	17	15	68	.1	34	14	678	2.93	3	5	ND	4	16	.2	2	2	26	.69	.009	27	20	.37	262	.04	9	2.32	.02	.35	1
S1 12+00E	1	12	19	94	.1	30	11	695	3.18	3	5	ND	5	32	.2	2	2	24	2.77	.013	33	17	.51	379	.05	12	2.75	.02	.35	1
S1 12+50E	2	11	17	77	.1	21	7	331	2.28	2	5	ND	2	19	.4	2	2	26	1.46	.008	12	17	.40	273	.05	7	2.34	.02	.13	1
S1 13+00E	1	17	19	90	.1	36	12	457	3.34	6	5	ND	5	26	.2	2	2	34	2.70	.014	36	22	.65	332	.03	10	2.46	.01	.25	1
S2 0+00	31	16	18	593	.2	56	5	199	1.38	13	5	ND	1	38	15.8	12	2	485	.34	.070	11	18	.15	200	.01	14	1.17	.01	.23	3
S2 0+50	51	14	20	564	.2	87	5	106	1.55	12	5	ND	3	53	7.5	4	2	294	.20	.101	11	14	.12	195	.03	10	1.54	.02	.22	3
S2 1+00	19	27	7	554	.1	79	9	175	1.76	8	5	ND	2	21	6.8	4	2	115	.49	.027	25	10	.14	120	.01	10	.75	.01	.16	2
S2 1+50	8	10	5	671	.1	36	8	480	1.47	6	5	ND	2	16	12.6	2	2	84	.30	.046	17	8	.15	163	.02	9	1.07	.01	.20	3
S2 2+00	3	8	7	262	.1	33	6	83	1.58	3	5	ND	2	13	.8	2	2	34	.24	.011	13	9	.21	164	.04	7	1.65	.02	.15	1
S2 2+50	7	34	10	212	.1	56	12	160	2.54	8	5	ND	5	15	.8	2	2	26	1.22	.025	27	19	.50	77	.01	15	1.17	.01	.24	1
S2 3+00	4	16	6	100	.1	30	8	64	1.58	5	5	ND	5	7	.2	2	2	13	.16	.008	25	10	.13	37	.02	5	.71	.01	.10	1
S2 3+50	1	9	7	143	.1	19	7	467	1.40	2	5	ND	2	16	.7	2	2	15	.27	.026	12	7	.17	134	.05	7	1.59	.03	.23	1
S2 4+00	4	11	6	144	.1	25	7	178	1.58	4	5	ND	2	12	.5	2	2	21	.19	.028	16	9	.17	115	.03	5	1.25	.02	.13	1
S2 4+50	6	18	9	184	.1	44	9	216	1.86	9	5	ND	2	13	1.5	2	2	32	.31	.051	23	10	.16	77	.02	8	.94	.01	.16	1
S2 5+00	8	17	13	174	.1	49	9	215	2.16	10	5	ND	1	12	1.3	2	2	46	.28	.046	21	11	.16	124	.02	7	1.08	.01	.18	1
S2 5+50	12	29	20	254	.1	80	15	179	2.99	20	5	ND	1	9	2.2	2	2	66	.13	.055	23	13	.22	87	.01	7	.81	.01	.12	1
S2 6+00	8	23	15	248	.3	65	12	185	2.58	14	5	ND	3	26	2.4	2	2	38	1.64	.130	22	11	.30	158	.02	9	1.05	.01	.14	1
S2 6+50	8	9	12	663	.1	48	8	284	1.79	8	5	ND	2	12	3.8	2	2	123	.11	.125	9	15	.20	309	.03	8	1.96	.02	.15	3
S2 7+00	11	16	13	1041	2.5	55	9	202	2.26	19	5	ND	4	14	10.4	5	2	193	.10	.251	10	14	.25	343	.05	7	2.73	.02	.12	5
S2 7+50	13	11	13	505	.8	44	7	127	1.64	10	5	ND	2	11	3.1	4	2	137	.12	.159	9	13	.17	232	.02	11	1.39	.01	.16	3
S2 8+00	56	8	25	492	.6	55	4	173	1.42	14	5	ND	1	32	14.7	6	2	324	.17	.120	9	9	.16	579	.02	10	1.48	.02	.16	2
S2 8+50	18	13	10	665	.3	54	8	251	1.54	13	5	ND	2	16	6.5	5	2	137	.19	.051	9	9	.18	253	.03	8	1.12	.02	.14	3
S2 9+00	35	23	15	1552	.5	154	10	286	1.96	23	5	ND	1	17	14.3	13	2	229	.29	.066	8	12	.13	171	.01	12	.94	.01	.15	8
S2 9+50	57	50	19	715	.8	117	9	137	2.29	32	5	ND	3	33	12.4	14	2	211	.28	.053	9	11	.21	247	.01	10	.81	.01	.18	3
S2 10+00	3	10	21	540	.1	53	9	448	2.65	6	5	ND	4	19	2.2	2	2	44	.65	.017	18	18	.92	340	.09	17	3.33	.03	.37	2
S2 10+50	2	19	8	95	.2	24	6	214	1.65	5	5	ND	1	89	1.3	2	2	18	16.57	.043	9	13	.58	165	.01	17	1.16	.01	.19	1
S2 11+00	1	18	7	43	.1	24	7	255	1.74	3	5	ND	1	126	.5	2	2	12	17.23	.037	11	12	.24	149	.01	19	1.38	.01	.25	1
S2 11+50	1	9	2	12	.2	13	4	209	.69	3	5	ND	1	146	.5	2	2	4	18.45	.033	4	6	.35	26	.01	13	.29	.01	.09	1
S2 12+00	22	16	16	703	.2	70	9	254	1.59	13	5	ND	2	16	6.1	6	2	199	.65	.047	7	13	.14	157	.01	13	1.03	.01	.17	3
STANDARD C	17	60	39	132	7.2	70	32	1043	3.98	40	16	7	40	52	18.7	16	19	57	.49	.090	40	59	.88	177	.09	34	1.90	.07	.15	11

Samples beginning 'RE' are duplicate samples.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
S2 12+50	1	5	13	400	.1	23	7	145	2.00	3	5	ND	3	21	6.1	2	2	26	.62	.036	7	12	.39	287	.09	8	3.29	.04	.06	1
S2 13+00	1	6	13	58	.1	12	4	129	1.79	2	5	ND	3	19	.2	2	2	18	3.87	.020	19	12	2.28	401	.05	7	2.17	.02	.08	1
T 0+00E	1	18	23	67	.1	33	14	415	2.99	2	5	ND	2	22	.2	2	2	25	2.07	.016	24	22	.44	171	.01	9	1.77	.01	.19	1
T 0+50E	1	27	21	79	.1	43	12	221	3.42	5	5	ND	6	13	.2	2	2	27	.62	.013	37	26	.56	165	.01	13	1.90	.01	.24	1
T 1+00E	2	28	25	113	.2	52	15	504	3.55	6	5	ND	6	23	.5	2	2	33	1.41	.018	50	24	.61	276	.02	14	2.46	.01	.27	1
T 1+50E	2	21	25	93	.1	36	10	254	2.42	5	5	ND	3	62	.4	2	2	27	5.04	.022	23	17	.65	164	.02	10	1.74	.01	.17	1
T 2+00E	3	17	19	119	.3	36	11	201	2.55	3	5	ND	4	13	.5	2	2	34	.52	.017	13	15	.39	261	.03	10	1.87	.01	.16	1
T 2+50E	1	33	20	71	.1	49	17	247	3.96	4	5	ND	6	16	.2	2	2	25	.63	.009	16	28	.53	249	.01	16	2.33	.01	.30	1
T 3+00E	1	11	13	147	.3	28	8	158	1.99	2	5	ND	4	17	.7	2	2	32	.24	.062	9	14	.28	295	.07	10	3.06	.03	.11	1
T 3+50E	2	8	12	231	.2	33	8	157	2.24	9	5	ND	3	15	1.2	2	2	62	.37	.326	6	18	.25	147	.07	7	3.37	.02	.08	1
T 4+00E	13	25	18	146	.1	56	13	215	2.62	11	5	ND	3	15	.9	2	2	48	.68	.075	26	19	1.16	112	.01	7	1.46	.01	.11	1
T 4+50E	2	10	9	179	.1	37	8	111	1.91	5	5	ND	3	16	.5	2	2	30	.30	.099	14	12	.30	181	.06	8	2.35	.03	.09	1
T 5+00E	2	8	9	98	.1	29	8	106	2.29	5	5	ND	4	9	.3	2	2	24	.18	.023	21	18	.45	101	.02	4	1.33	.01	.09	1
T 5+50E	3	18	17	84	.1	56	13	103	2.43	8	5	ND	4	12	.2	2	2	35	.27	.091	16	13	.34	286	.03	10	2.16	.02	.15	1
T 6+00E	3	13	14	83	.1	38	10	112	2.15	6	5	ND	3	12	.2	2	2	27	.22	.027	17	13	.37	138	.03	7	1.61	.02	.11	1
T 6+50E	1	8	14	67	.1	29	8	223	1.68	4	5	ND	3	15	.2	2	2	22	.26	.195	9	10	.20	129	.07	8	2.16	.03	.09	1
T 7+00E	3	15	16	82	.1	56	14	103	2.41	8	5	ND	1	14	.2	2	2	33	.22	.250	10	12	.29	277	.04	7	2.74	.02	.12	1
T 7+50E	2	9	14	104	.1	32	9	256	2.08	6	5	ND	3	19	.3	2	2	29	.37	.580	10	8	.21	480	.05	7	2.19	.02	.12	1
T 8+00E	1	8	11	137	.1	34	7	158	1.86	4	5	ND	2	18	.4	2	2	26	.23	.086	8	13	.58	278	.09	4	3.18	.03	.08	1
T 8+50E	3	11	14	188	.1	36	12	163	2.30	6	5	ND	3	9	.7	2	2	47	.14	.457	10	14	.32	298	.04	9	2.30	.02	.11	1
T 9+00E	7	17	13	245	.1	50	11	281	2.76	7	5	ND	2	21	3.0	2	2	69	.91	.067	27	16	.68	280	.01	14	1.65	.01	.15	1
T2 10+00W	1	11	8	71	.1	20	5	135	1.57	2	5	ND	2	26	.2	2	2	15	3.31	.022	19	16	.68	102	.03	3	1.49	.01	.11	1
RE T 7+50E	2	10	15	107	.1	33	9	259	2.09	5	5	ND	3	20	.2	2	2	29	.40	.579	10	9	.21	489	.05	6	2.21	.02	.12	1
T2 9+50W	1	4	6	66	.1	12	3	367	1.25	2	5	ND	1	12	.2	2	2	12	.37	.015	9	11	.28	160	.04	5	1.65	.02	.10	1
T2 9+00W	1	10	9	118	.1	17	4	379	1.49	2	5	ND	2	22	.6	2	2	15	.38	.023	13	12	.27	181	.07	6	2.20	.04	.16	1
T2 8+50W	1	7	11	165	.1	19	5	565	1.61	2	5	ND	2	18	.8	2	2	20	.63	.031	14	12	.34	223	.05	7	1.91	.02	.17	1
T2 8+00W	1	8	6	99	.1	17	4	128	1.38	2	5	ND	2	20	.2	2	2	15	.47	.023	16	14	.28	104	.07	3	2.02	.03	.09	1
T2 7+50W	1	5	5	154	.1	19	4	197	1.19	2	5	ND	2	11	.3	2	2	22	.22	.026	11	11	.26	156	.03	4	1.35	.01	.10	1
T2 7+00W	1	5	6	152	.1	27	5	115	1.71	2	5	ND	2	17	.2	2	2	24	.38	.024	14	12	.30	343	.06	8	2.45	.02	.18	1
T2 6+50W	1	3	8	221	.1	19	4	194	1.24	2	5	ND	2	11	.9	2	2	30	.24	.024	9	10	.24	262	.05	8	1.64	.02	.13	1
T2 6+00W	2	7	7	219	.1	27	4	169	1.28	2	5	ND	2	11	1.0	2	2	48	.30	.019	13	11	.22	202	.03	7	1.22	.01	.16	1
T2 5+50W	4	9	8	154	.1	30	5	75	1.43	4	5	ND	3	9	.6	2	2	70	.26	.009	14	12	.28	170	.02	7	1.15	.01	.12	1
T2 5+00W	1	16	15	197	.1	31	8	867	1.63	6	5	ND	1	77	2.8	2	2	27	13.29	.089	14	9	.30	343	.01	19	1.23	.01	.28	2
T2 4+50W	1	6	9	152	.1	17	4	285	1.29	2	5	ND	2	24	.2	2	2	16	.42	.052	9	9	.23	243	.09	4	2.29	.04	.09	1
T2 4+00W	1	3	6	105	.1	17	3	121	1.21	2	5	ND	1	10	.2	2	2	18	.23	.013	10	13	.25	141	.05	2	1.70	.02	.21	1
T2 3+50W	1	5	10	134	.1	18	5	207	1.45	2	5	ND	1	11	.4	2	2	26	.31	.025	8	10	.34	183	.05	5	1.75	.02	.13	1
T2 3+00W	1	10	10	130	.1	28	5	114	1.99	2	5	ND	3	22	.3	2	2	28	.78	.009	13	10	.40	343	.08	6	2.56	.03	.20	1
STANDARD C	17	58	37	133	7.1	71	34	1044	3.97	39	20	6	38	52	18.5	14	18	56	.49	.091	38	58	.89	177	.09	32	1.89	.06	.15	11

Samples beginning 'RE' are duplicate samples.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
T2 2+50W	2	7	5	152	.1	23	5	158	1.40	3	5	ND	1	9	.8	2	2	40	.29	.016	11	10	.31	138	.03	5	1.17	.01	.12	1
T2 2+00W	4	9	11	353	.1	38	4	287	1.54	6	5	ND	2	12	2.7	2	2	56	.39	.021	13	10	.22	174	.03	8	1.13	.01	.14	1
T2 1+50W	1	5	4	129	.1	19	4	228	1.39	4	5	ND	2	11	.6	2	2	21	.27	.022	13	12	.32	141	.03	6	1.37	.01	.12	1
T2 1+00W	1	6	7	213	.1	23	4	311	1.28	3	5	ND	1	12	1.4	2	2	25	.22	.038	7	7	.21	227	.05	6	1.67	.02	.12	1
RE T2 1+00W	1	6	7	211	.1	22	4	309	1.26	3	5	ND	1	12	1.5	2	2	24	.22	.038	7	7	.21	249	.05	6	1.66	.02	.12	1
T2 0+50W	3	13	8	193	.1	36	6	133	1.83	6	5	ND	3	10	.8	2	2	41	.32	.028	18	15	.38	192	.02	8	1.39	.01	.12	1
T2 0+00W	2	10	9	345	.1	39	6	300	1.80	4	5	ND	3	17	1.8	2	2	50	.56	.014	18	15	.35	322	.03	13	1.65	.01	.20	1
STANDARD C	17	57	38	132	7.0	69	31	1042	3.92	39	17	8	39	52	17.6	16	19	56	.48	.089	38	57	.88	172	.09	32	1.89	.06	.15	11

Samples beginning 'RE' are duplicate samples.

APPENDIX IV

Analytical Procedures

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C., Canada V6A 1R6
Telephone: (604) 253-3158 Fax: (604) 253-1716

ICP - 0.5 gram sample is digested with 3 ml 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, Sr, Ca, P, La, Cr, Mg, Ba, Ti, B, W and limited for Na, K, Al.

GOLD & SILVER BY FIRE ASSAY

1/2 A.T. samples is mix in dry reagent flux with 1 Ag inquart and fused at 1000 deg C for 45 to 60 mins. The resulting Ag bead from cupellation is dissolved in aqua-regia. Au and Ag are analyzed by ICP.

- For Au > .5 oz/t, determination by gravimetric finished.
- Wet acid leached for Ag is also ran for confirmation. (procedure same as below).

ASSAY FOR CU, PB, ZN AND AG

In 100 ml volumetric flask, 1 g sample is digested in 50 ml 3-1-2 HCL-HNO3-H2O at 95 deg C for one hour, dilute to 100 ml with demineralized water, analysis by ICP.

APPENDIX V

Rock Sample Descriptions

SAMPLE NUMBER	LOCATION COMMENT	SAMPLE DESCRIPTION
20099	Pete 2 claim, northwest corner of Coyote claim, ele. 1805m	Grab of black shale
20137	Western Coyote claim, ele. 1838m	Grab over 0.5m of black shale, weathered & fractured, bedding-cleavage angle appears high, both not measureable
20138	Steve 4 claim, ele. 1510m	Grab of black shale on north side of main Steve claims drainage, subcroppy & talus, ran: 838 ppm Zn
20140	Central Coyote claim, ele. 1795m	Grab of dark grey, rubbly weathering limestone (slumping?), white calcite veinlets common, irregular clear to white dolomite patches, possible trace pale yellow sphalerite (weak positive zinc zap test) in limestone, ran: 818 ppm Zn
20182	Pete 1 claim, ele. 1745m	Grab of black shale with limy, concretion-bearing beds, minor disseminated pyrite, strong cleavage at high angles to bedding (shale rods), cleavage 065/25NW
20183	West central Coyote claim, ele. 1940m	Grab of rusty zone within black shales, bedding 150/40NE, rodded lineation 120-30
20184	West central Coyote claim, ele. 1920m	Grab of dark, carbonaceous black shale, very strong slatey cleavage, unsure of bedding, close to fault?
20185	West central Coyote claim, ele. 1925m	Grab of shale with yellow stain & minor iron staining and pyrite, bedding (limy bed) 115/66SW
20222	Steve 8 claim, ele. 1895m	1m chip thru black shale, local rusty (dolomite?), sandy laminations, bluish cast on fractures (blue upon zinc zap test), ran: 831 ppm Zn
20223	Steve 7 claim, ele. 1850m	Grab of talus of black shale, red to brown weathering grey to black shale to mudstone, mudstone appears to head east down hill in middle of black shale, soil S1, 0+00E is in the middle of this, ran: 1649 ppm Zn
20251	Pete 2 claim, Northwest corner of Coyote, ele. 1840m	Grab of locally pyritic black shale, limy

APPENDIX VI

Soil Sample Descriptions

SOIL SAMPLE FORMS - COLUMN DESCRIPTION

DEPTH: Top of sample interval (cm)

THICKNESS: Thickness of samples interval (cm)

HORIZON:

- **LH.** Leaf, humus layer, undecomposed vegetation lying on the ground surface (do not sample)
- **AH.** Dark grey to black, organic - rich mineral horizon usually no deeper than 15cm from the surface (do not sample)
- **AE.** Grey to white (occasionally brown) leached mineral horizon near ground surface, usually sandy; accompanied by BF or BT horizon at depth (do not sample)
- **BH.** Black, organic-rich mineral horizon at depths greater than 15cm (do not sample)
- **BF.** Red-brown, iron-rich horizon
- **BT.** Brown, clay-rich horizon
- **BG.** Horizon which is water-saturated most of the year, identified by red-brown mottles
- **BM.** Brown horizon which is only slightly different in appearance from underlying parent material
- **C1, C2, C3, etc.** Parent material for soil
- **CA.** White calcium carbonate precipitate in C horizon
- **01, 02, 03, etc.** Bog sample at various depths.
- **TF.** Talus fines

COLOUR:

LB - Light Brown		**BL** - Black	
MB - Medium Brown		**YO** - Yellow	
DB - Dark Brown		**GR** - Grey	
RB - Red Brown		**RD** - Red	
YB - Yellow Brown		**WH** - White	

MO - Mottled Red Brown (Red Brown Patches)

PARTICLE SIZE: Sand/Silt/Clay

% FRAGMENTS: Estimated % Fragments

FRAGMENT ROUNDNESS:

- **WR** - Well Rounded
- **SR** - Sub Rounded
- **SA** - Sub Angular
- **VA** - Very Angular

FRAGMENT COMPOSITION:

- **M** Mafic Volcanic
- **F** Felsic Volcanic
- **I** Intrusive
- **A** Argillite
- **S** Sediment
- **SS** Sericite Schist
- **L** Limestone
- **MM** Mineralized

SLOPE: Estimated local slope in degrees

SEEPAGE: Indicate with a "S" if sample is a seepage zone

COMMENTS: Till, outwash, residual; details on any of the above

Coyote "A"

1991 SOIL SAMPLES PROPERTY PROJECT 1711 SAMPLER Ted Archibald

SAMPLE NO.	GRID LOCATION	DEPTH (cm)	THICK (cm)	HORIZON	COLOUR	PARTICLE SIZE	FRAGMENTS %	FRAGMENTS ROUND	FRAGMENTS COMP	SLOPE	SEEPAGE	COMMENTS
0+00		35	10	TF	LB							Sandy
50		30	30	"	Grey-Brn							shaley
1+00		35	10	"	LB							"
50		25	10	"	"							"
2+00		25	5	"	"							"
50		35	35	"	GR-Brn							"
3+00		25	5	"	LB							" crest of hill
50		15	15	"	"							"
4+00		45	10	"	"							"
50		25	10	"	"							"
5+00		25	15	"	"							"
50		45	20	"	"							"
6+00		30	25	"	GR-Brn							"
50		25	20	"	LB							"
7+00		25	20	"	"							"
50		25	20	"	"							"
1: 43												

"COYOTE"

1991 SOIL SAMPLES PROPERTY PROJECT COYOTE SAMPLER GE

SAMPLE NO.	GRID LOCATION	DEPTH (cm)	THICK (cm)	HORIZON	COLOUR	PARTICLE SIZE	FRAGMENTS %	FRAGMENTS ROUND	FRAGMENTS COMP	SLOPE	SEEPAGE	COMMENTS
B 0+00W		35	10	BM	Lt Br	Sa	10	SA	A	10E		
B 0+50W		35	10	BM	LB	Sa	40	SA	A	20N		Shale Talus
B 1+00W		30	10	BM	LB	Sa	60	SA	A	30N		Shale o/c 110/80°N
B 1+50W		45	15	TF	GR	Sa	80	SA	A	25NE		Shale Talus
B 2+00W		40	20	TF	LB	Sa	60	SA	A	20NE		" "
B 2+50W		30	10	TF	LB	Sa	60	SA	A	10NE		" " near top
B 3+00W		30	10	TF	LB	Sa	60	SA	A	Flat		Top of Pass
B 3+50W		30	10	TF	LB	Sa	60	SA	A	Flat		Shale Talus - Top W End @ Rd
B 4+00W		30	10	BM	LB	Sa	40	SA	A	20W		Treed Area - Shale Talus
B 4+50W		40	10	TF	LB	Sa	70	SA	A	30W		Shale Talus - @ C/L
B 5+00W		40	15	BM	LB	Sa	30	SA	A	30W		logged area
B 5+50W		40	15	TF	LB	Sa	60	SA	A	30W		Shale Talus - logged
B 6+00W		35	15	BM	LB	Sa	20	SA	A	20W		logged
												LINE C @ 6+10W LB
C 0+50S		40	15	BM	LB	Sa	30	SA	A	10N		logged
C 1+00S		30	10	TF	LB	Sa	50	SA	A	10N		logged - Shale Talus
C 1+50S		30	10	BM	LB	Sa	20	SA	A	10N		logged
C 2+00S		35	10	BM	LB	Sa	40	SA	A	20N		logged - Blk Shale + Lmst Frt
C 2+50S		40	15	TF	LB	Sa	60	SA	A	20N		logged - Shale, Lmst, Mudst Frt
C 3+00S		35	15	BM	LB	Sa	30	SA	A	20W		logged - Shale + Mud
C 3+50S		30	15	BM	LB	Sa	30	SA	A	25N		into woods
C 4+00S		40	10	BM	MB	Sa	30	SA	A	20N		shale frt.
C 4+50S		35	10	BM	LB	Sa	30	SA	A	25N		shale frt
C 5+00S		30	10	TF	LB	Sa	60	SA	A	20N		shale ofc S# 20183 on old Rd

W "COYOTE" + "TOM"

Sept 3

~~1989~~ 1991 SOIL SAMPLES				PROPERTY PROJECT COYOTE							SAMPLER RF	
SAMPLE NO.	GRID LOCATION	DEPTH (cm)	THICK (cm)	HORIZON	COLOUR	PARTICLE SIZE	FRAGMENTS %	ROUND	COMP	SLOPE	SEEPAGE	COMMENTS
LINE D	0+00S	40	10	?	LB/GR	Sand	40	VA	BR SH	30°S		Very sandy, bleached (ash fr. Burn?)
LINE D	0+50S	45	5	Bm?	LB	SANDY	40	VA	BR SH	25°S		w/ br muddy shale frags some in area red-Brsh - becomes lik here on surf
LINE D	1+00S ~~0+75~~S, A	15	5	BF?	YB	SANDY	10	SA	SH	10°SE mck		Very sandy Yell BR.
LINE D	1+00S ~~0+75~~S, B	45	5	BM	PURPLE/GREY	S/S	70	SA	SH	10°SW		Some loc. poss Talus or 'C' horizon?
LINE D	1+50S	20	10	BF?	YB	Sandy	15	SA	SH	15°E		underlain by grn talus (45cm)
LINE D	2+00S	25	10	BF?	MB	S/S	70	VA	SH BLK	20°S		talus white weathering lik sh local greenish mottling, Subcrop @ 40 cm
LINE D	2+50S	15	5	BF?	LB	S/S	80	VA	BLK SH	20°S		talus sample - brown sect in gy talus.
LINE D	3+00S	25	10	BF?	MB	S/S	80	VA	BLK SH	15°SE		talus above o/c local BF Zones in Talus
LINE D	3+50S	15	5	BF?	RB	S/S	30	VA	"	10°SE		red brown but may be burn oxidation?
LINE D	4+00S	10	4	BF	YB	S±S	15	A	Gy Calc SH	15°E		yell br layer below a leached zone.
LINE E	0+00W	15	5	BF?	YB	SANDY	5	SR	MIXED	05°E		logging disturbed
LINE E	0+50W	25	10	BF?	YB	SANDY	10	SR	MIXED	05°E		logging disturbed - some red but oxid from burn?
LINE E	1+00W	25	5	BF?	YB	SANDY	30	A	SH	05°E		- logging disturbed - good leached horiz.
LINE E	1+50W	25	5	BF?	YB	SANDY	10	SA	—	05°E		disturbed + good leached horiz
LINE E	2+00W	40	10	?	LB	SANDY	40	SA	SH LST	10°E		poor material.
LINE E	2+50W	35	10	BF?	YB	SANDY	15	SA	LST	15°E		NEAR O/C W/ SFH (LST)
LINE E	3+00W	20	5	BM?	MB	SANDY	5	SA	—	20°E		disturbed / MIXED
T (TOM CLAIMS)	0+00E	12	3	BF?	MB	SILT/CLAY	<5	—	—	10°N		burn, logged. } clay rich.
T	0+50E	15	4	BF?	MB	SILT/CLAY	<5	—	—	10°N		" "
T	1+00E	15	4	BF?	MB/YB	SILT/CLAY	<5	SR	LST	5°N		" " clay rich
T	1+50E	25	5	BM?	GR	SILT/CLAY	15	SA	LST.	5°N		clay rich burn, logged.
T	2+00E	20	5	BM?	MB	SILT/CLAY	<5	-	BR MUDDY LST	5NE		" " "
T	2+50E	25	5	BM?	MB	SILT/CLAY	<5	-	—	5NE		" " "
T	3+00E	30	3	BF?	YB	SAND/SILT	<5	SR	—	<5°N		SOMEWHAT SANDY.
T	3+50E	20	3	BF	YB	Sand/Silt	15	SR	VAR.	5°N		good leached Horiz.
T	4+00E	20	5	BM?	MB	S/S/C	25	SA	VAR	5°N		→ back to burn + clay rich.
T	4+50E	20	5	BM	MB	S/S	15	A	SH (LST)	5°N		burn.
T	5+00E	25	5	BM?	MB	S/S	25	A	mdst	5°N		burn.
T	5+50E	15	3	BF?	OB	S/S	15	A	VAR	10°N		burn. hit edge line @ 5+40E
T	6+00E	15	3	BM?	LB	S/S	15	A	mdst (SANDY)	10°N		burn, Sandy.
T	6+50E	20	5	BM	MB	S/S	15	A	"	10°N		" "
T	7+00E	15	3	BF	OB	S/S	10	A	—	10°N		" "

Sept 5

TOM CLAIMS

"TOM"

1989 Sept 5/91 SOIL SAMPLES PROPERTY PROJECT Tom CLAIMS SAMPLER RF

SAMPLE NO.	GRID LOCATION	DEPTH (cm)	THICK (cm)	HORIZON	COLOUR	PARTICLE SIZE	FRAGMENTS %	FRAGMENTS ROUND	FRAGMENTS COMP	SLOPE	SEEPAGE	COMMENTS
T	7+50E	15	3	BF	OB	S/S	10	A	–	10°N		Burn + Logging
T	8+00E	20	5	BM?	YB	S/S	5	–	–	10°N		" " (SANDY)
T	8+50E	20	5	BF?	OB	S/S	5	–	–	10°N		" " x clay @ 8+70 – MICS
T	9+00E	15	3	BM??	BR	S/S	40	SR	VAR	10°N		" " (sandy/gravelly)
36												

"STEVE"

1991	SOIL SAMPLES			PROPERTY PROJECT STEVE CLG.								SAMPLER GE
SAMPLE NO.	GRID LOCATION	DEPTH (cm)	THICK (cm)	HORIZON	COLOUR	PARTICLE SIZE	FRAGMENTS %	FRAGMENTS ROUND	FRAGMENTS COMP	SLOPE	SEEPAGE	COMMENTS
S1 0+00E		40	10	C-TF	RD	Sa	60	VA	A	40E		Talus of Buff + Horn Shale
0+50E		30	10	BM	LB	Sa	40	SA	A	30E		Talus of Blk Shale
1+00E		35	15	C	LB	Sa	30	SA	A	30E		Talus of Blk Shale, min Qtz
1+50E		30	10	TF	LB	Sa	50	VA	A-S	25E		Talus of Qtz + Blk Sh
2+00E		40	15	BM	LB	Sa	30	SA	A	20N		In draw on Cominco c/l
2+50E		40	15	BM	VB	Sa	20	SA	A	20N		
3+00E		35	10	BM	LB	Sa	25	SA	A	30N		
3+50E		35	10	TF	LB	Sa	60	SA	A	20N		Top of Knoll
4+00E		35	10	BM	LB	Sa	40	SA	A	10E		Blk Sh Talus
4+50E		30	10	TF	LB	Sa	60	SA	A	20E		Blk Sh Talus
5+00E		40	15	BM	LB	Sa	30	SA	A	30E		" " "
5+50E		30	15	BM	LB	Sa	30	SA	S	30E		Ernst + Ca. Dolom
6+00E		35	15	BM	RD	Sa	40	SA	S	30S		Talus Buff + Horn Shale
6+50E		35	10	BM	LB	Sa	30	SA	S	30E		
7+00E		30	10	BM	LB	Sa	20	SA	S	10E		Flats
7+50E		30	15	BM	LB	Sa	20	SA	A	5E		"
8+00E		30	15	BM	LB	Sa	20	SA	A	3E		"
8+50E		25	15	BM	LB	Sa	20	SA	A	3E		Mouth of Trib? - No Cut 1:T 64
9+00E		25	15	BM	LB	Sa	30	SA	A	5E		Blk Shale Flt.
9+50E		25	15	BM	MB	Sa	10	SA	A	5N		
10+00E		30	15	BM	MB	Sa	20	SA	A	5N		nr Blk Sh
10+50E		30	15	BM	LB	Sa	20	SA	A	10N		
11+00E		25	15	BM	LB	Sa	10	SA	A	05E		
11+50E		30	15	BM	LB	Sa	10	SA	A	10E		looking @ Main Valley
12+00E		30	15	BM	LB	Sa	40	SA	S	20E		Imst Flt
12+50E		30	20	BM	MB	Sa	30	SA	S	15E		Imst flt
13+00E		25	10	BM	RB	Sa-G	30	SR	S	10E		Imst flt
27												

"STEVE" cr

"S2"

1991	SOIL SAMPLES				PROPERTY PROJECT 1711					SAMPLER Ted Archibald
SAMPLE NO.	GRID LOCATION	DEPTH (cm)	THICK (cm)	HORIZON	COLOUR	PARTICLE SIZE	FRAGMENTS %	FRAGMENTS ROUND	FRAGMENTS COMP	SLOPE	SEEPAGE	COMMENTS
0+00		40	40	TF	Gr							Steve 7+8 I.P.'s, shaley
50		35	35	"	"							shaley
1+00		35	35	"	"							"
50		35	35	"	"							"
2+00		20	20	"	"							"
50		20	5	"	LB							"
3+00		35	35	"	Gr							"
50		30	10	"	Gr-Brn							"
4+00		30	30	"	Gr							"
50		30	30	"	Gr-Brn							"
5+00		25	25	"	"							"
50		20	20	BM	"							tree line
6+00		30	10	"	LB							
50		25	20	"	"							flat terrain
7+00		35	10	"	"							" "
50		10	5	"	"							rocky
8+00		35	20	"	Gr Brn							Bl. Shale talus
* S2850MM												20138 at Moss matte 8+25
8+50		35	35	"	Gr-Brn							
9+00		20	20	"	"							Shaley
50		25	20	"	"							"
10+00		15	15	"	MB							Limestone talus
50		20	5	"	LB							" "
11+00		30	20	"								
50		35	35	"								
12+00		20	20	"								shaley, flat
50		20	10	"								edge of swamp
13+00		15	5	"		Clay						rocky

7

607000 E

699000 E

5542000 N

5540000 N

LUSIER RIVER

Coyote Creek

Steve Creek

Tom Creek

2152 m

2168 m

STEVE CLAIMS

TOM CLAIMS

20223 (1649 ppm Zn)

20222 (831 ppm Zn)

20138 (838 ppm Zn)

M20139 (2166 ppm Zn)
52-850MM (2307 ppm Zn)

5500 ppm Zn

grey to brown tiny mudstone flatlying, bioturbated

dark limestone banded (silty) (subcrop)

grey limestone (subcrop)

black shale talus

quartzite

M20129 (879 ppm Zn)

RGS 380 ppm Zn

M20130 (1764 ppm Zn)

M20128 (2018 ppm Zn)

MM-01-T-1890 (4084 ppm Zn)

Rock to Grey Limestone

Gypsum

LEGEND

- GEOLOGIC CONTACT
- OUTCROP
- ABUNDANT TALUS
- BEDDING
- 20138 (838 ppm Zn) ROCK -SAMPLE
- MM-01-T-1890 (4084 ppm Zn) MOSS MAT STREAM SAMPLE
- 231 SOIL SAMPLE with ZINC (ppm) VALUE
- 500 CONTOURED ZINC (ppm) VALUES
- STREAM
- ROAD
- 1630 TOPOGRAPHIC CONTOUR Interval 20m
- STEVE CLAIMS CLAIM OUTLINE

MISSISSIPPIAN

5 BANFF and RUNDLE FORMATIONS
Limestone, Chert, Quartzite

DEVONIAN

4 HARROGATE FORMATION
Brown to Grey Shale, limestone, dolomite, mudstone/shale
4a — Black Shale

3 CEDARED FORMATION
Dolomite, Sandstone, Limestone

2 BURNAIS FORMATION
Evaporites

1 BASAL DEVONIAN UNIT
Quartzite, Argillaceous Limestone, Limestone

GEOLOGICAL BRANCH
ASSESSMENT REPORT
22,321

FIGURE 5

TECK EXPLORATION LTD.

COYOTE PROPERTY

GEOLOGY and GEOCHEMISTRY
STEVE and TOM CLAIMS

0 100 200 300 400 500
metres

DATE DRAWN: APR. 29, 1992	SCALE: 1:5,000	DWG. NAME
COMPILED BY: S.J.	JOB No: 1711	COY-NGC
DRAWN BY: S.A./L.M.	NTS. No. 82J/3W,4E	


PETE CLAIMS
COYOTE CLAIM
5538000 N
5536000 N
607000 E
609000 E
N
4a
4
black shale
limestone/shale
dark grey limestone
black limestone
M20133 (2080 ppm Zn)
M20135 (1812 ppm Zn)
M20134 (2137 ppm Zn)
brown sandy shale
knobby silty dolomite
brown limy shale
brown shale with limestone
limestone, limestone breccia solution
grey gypsum
1747 m
2036 m
2173 m
GEOLOGICAL BRANCH ASSESSMENT REPORT
22,321
LEGEND
GEOLOGIC CONTACT
OUTCROP
ABUNDANT TALUS
BEDDING
CLEAVAGE
20137 (354 ppm Zn) ROCK SAMPLE
M20135 (1812 ppm Zn) MOSS MAT STREAM SAMPLE
SOIL SAMPLE with ZINC (ppm) VALUE
CONTOURED ZINC (ppm) VALUES
STREAM
ROAD
TOPOGRAPHIC CONTOUR Interval 20m
PETE CLAIMS CLAIM OUTLINE
MISSISSIPPIAN
5 BANFF and RUNDLE FORMATIONS
Limestone, Chert, Quartzite
DEVONIAN
4 HARROGATE FORMATION
Brown to Grey Shale, limestone, dolomite, mudstone/shale
4a – Black Shale
3 CEDARED FORMATION
Dolomite, Sandstone, Limestone
2 BURNAIS FORMATION
Evaporites
1 BASAL DEVONIAN UNIT
Quartzite, Argillaceous Limestone, Limestone
0 100 200 300 400 500
metres

FIGURE 6

TECK EXPLORATION LTD.

COYOTE PROJECT

GEOLOGY and GEOCHEMISTRY
COYOTE and PETE CLAIMS

DATE DRAWN: MAY 1, 1992	SCALE: 1:5,000	DWG. NAME:
COMPILED BY: S.J.	JOB No: 1711	COY-SGC
DRAWN BY; S.A./L.M.	NTS: 82G/13E,14W	