

84-#49-11968

GEOLOGICAL AND GEOCHEMICAL REPORT

ON

FOGGY F GROUP
(JOSEPH 19 AND JOSEPH 20 MINERAL CLAIMS)

KAMLOOPS MINING DIVISION
NTS 92P/8E
Latitude 51°32'N By Longitude 120°10'W

by

C. C. EVERETT

JANUARY 20, 1983

Owner: Barrier Reef Resources Ltd.
904 - 675 West Hastings St.
Vancouver, B.C.

Operator: Esso Resources Canada Limited
600 - 1281 West Georgia St.
Vancouver, B.C.
V6E 3J7

GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,968

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Summary

The Foggy "F" Group is located in south central British Columbia, approximately 100 km NNE of Kamloops and 14 km southwest of the town of Clearwater.

This report documents a reconnaissance prospecting and soil geochemical survey covering untested 1979 Dighem II airborne EM and magnetics anomalies. Results from the 1983 exploration program indicate the source of EM anomalies to be graphitic argillites and chert. The aeromagnetic anomalies are unexplained. Soil geochemical results are low and do not indicate the presence of base metals in this area.



ESSO MINERALS CANADA	
LOCATION MAP	
FOGGY F GROUP	
KAMLOOPS MINING DIVISION, B. C.	
Drawn By: C. E.	Date: AUG. 1983
Scale: 1cm. = 87km.	Fig No. 1

1.0 Introduction

1.1 Location and Access

The Foggy "F" Group is located in south central British Columbia approximately 100 km NNE of Kamloops and 14 km southwest of Clearwater. Access to the property is gained by driving 25 km west and south along the south side of the North Thompson River and then 4 km northeast along a B.C. Hydro microwave tower road, figure #2.

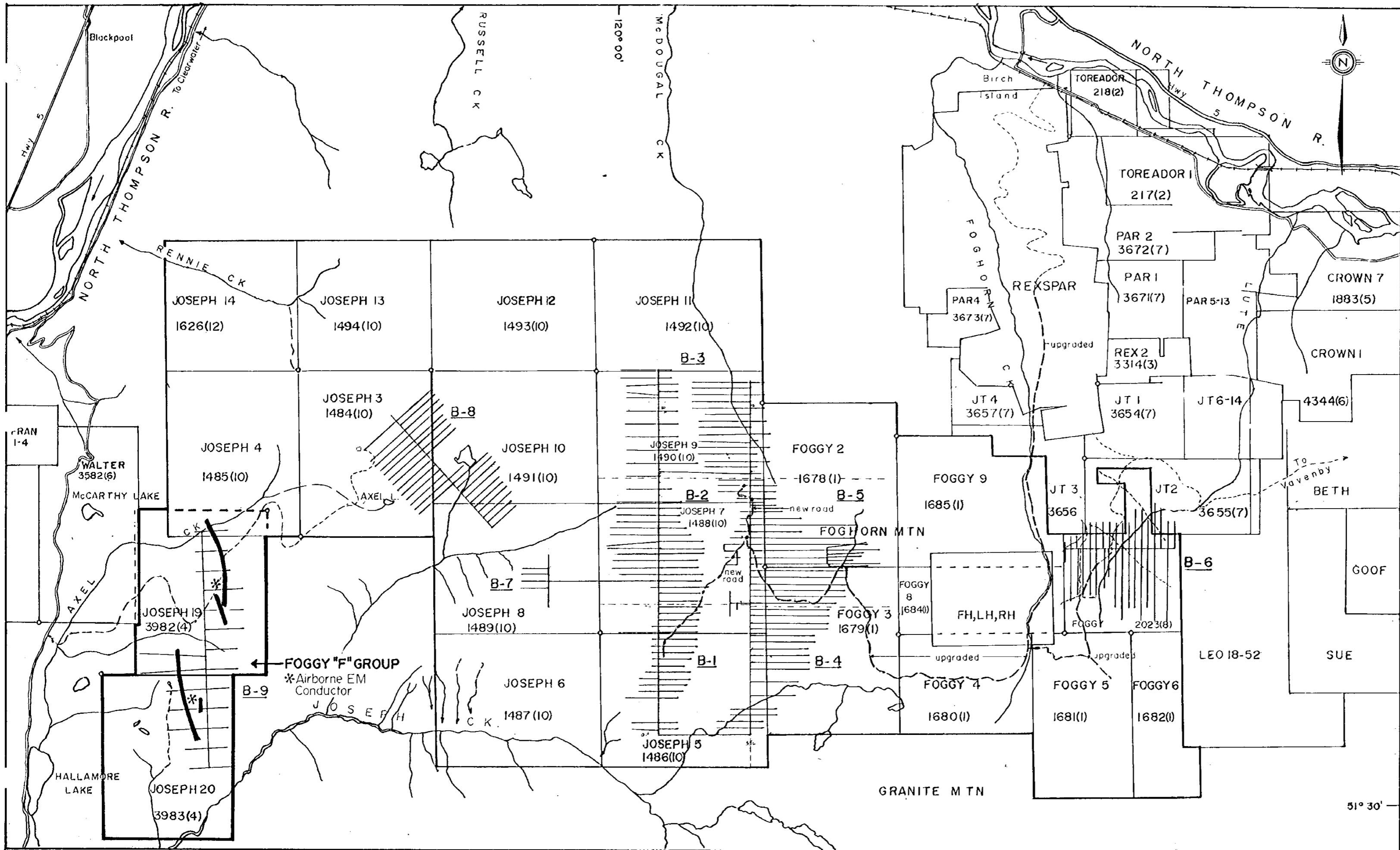
The claim group is located on the western flank of Foghorn Mountain. Estimated depth of overburden is 1-50 metres. Much of the prospect is covered with stunted poplar, spruce, buck brush and devils club. Elevations vary between 430 and 1100 metres.

1.2 Property

The Foggy "F" Group comprises 2 mineral claims aggregating 40 contiguous units. Claim names, record numbers, month of record, units and anniversary dates are listed below in Table #1. Claim locations are shown in figure #2.

(Table #1)

<u>Claim</u>	<u>Record #</u>	<u>Month of Record</u>	<u>Units</u>	<u>Anniv. Date</u>
Joseph 19	3982	4	20	April 13/1984
Joseph 20	3983	4	20	April 13/1984



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- - - - - new road construction, Barrier prospect
- - - - - upgraded Barrier prospect access road

B-1: GRID NO.
SCALE 1:50000



ESSO MINERALS CANADA

**BARRIER PROJECT
FOGGY "F" GROUP
CLAIM and GRID
LOCATION MAP**

Project No. 2189	
NTS: 92P/8E, 82M/12W	LAT: 119° 54'
Min. Div: KAMLOOPS	LONG: 51° 32'
Date: Nov. 1983	Drawn by: C.E.
	Figure 2

51° 30'

1.3 History of Property

The Joseph 19 and Joseph 20 mineral claims were staked by Barrier Reef Resources Limited in 1982 to cover untested airborne EM and magnetic anomalies from a 1979 Craigmont Mines Ltd. Dighem II survey. There is no documentation of previous work in the immediate claim area prior to 1979.

1.4 Regional Geology

The regional geology of the Barrier prospect is taken from Paper 1982-1, B.C.D.M. Geological Fieldwork 1981, Clearwater Area, by P. Schiarizza. Figure 3 is a generalized geological map of the Clearwater-Chu Chua area. Vertical cross-sections to accompany figure #3 are shown on figure #3A.

East of the Foghorn showings, the property is underlain by rusty weathering greenish-grey feldspathic chlorite schists, chlorite schists, sericite schists, quartz sericite schists and sericitic quartzites of the Eagle Bay Formation. These units comprise a relatively flat lying plate, occurring as a gentle north plunging synform.

West of the Foghorn showings the property is underlain by rocks of the Lower and Upper Fennell Formation. The Lower Fennell Formation consists of (5a) aphanitic to very coarse grained basalt with both extrusive and intrusive phases, (5b) chert and cherty mudstone, (5c) quartz-feldspar porphyry, (5d)

BARRIER PROJECT REGIONAL GEOLOGY MAP

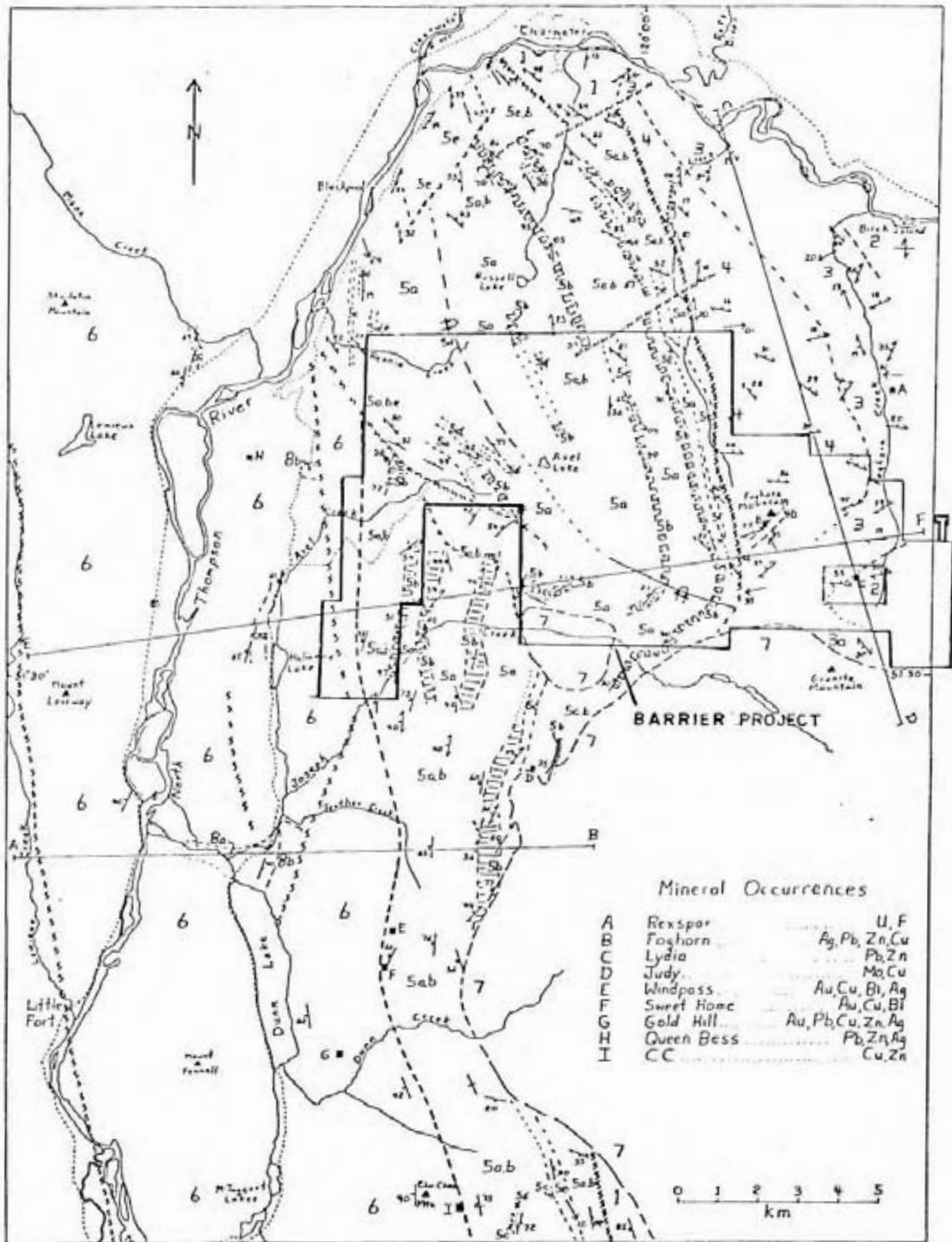


Figure 3. Generalized geological map of the Clearwater-Chu Chua area.

LEGEND (See figure 3)

Eocene and Later (?)

- 8 (b) Skull Hill Formation: vesicular andesite
- (a) Chu Chua Formation: conglomerate, sandstone, shale

CRETACEOUS

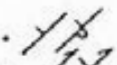


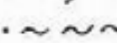
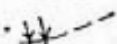
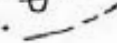


- 7 Biotite quartz monzonite of Baldy Batholith and Joseph Creek stock

UPPER PALEOZOIC

FENNEL FORMATION

- 6 { Upper Fennell Formation: pillowed and massive greenstone, minor chert
6a: bedded chert
- 5 { Lower Fennell Formation
PERMO- (f) limestone
TRIASSIC (e) sandstone, argillite, phyllite
(d) conglomerate
(c) quartz feldspar porphyry
(b) bedded chert
(a) greenstone
- FAULT CONTACT? ~~~~~
Eagle Bay Formation
- 4 { Rusty weathering, greenish grey, feldspathic chlorite-sericite schist
4a: quartzite
- 3 { Quartz-sericite schist with interbedded dark grey phyllite; minor chlorite schist, platy sericitic quartzite, and trachyte
MISSISSIPPIAN 3a: biotite-quartz gneiss, amphibolite, pelitic hornfels
- 2 Chlorite schist, minor grey phyllite and limestone
- 1 Black phyllite with interbedded siltstone, sandstone, and grit

Symbols

- Bedding: tops known, overturned; tops not known 
- Schistosity: Inclined; horizontal 
- Early mesoscopic fold axis 
- Late mesoscopic fold axis 
- Inferred fault 
- Early synclinal axial trace, overturned 
- Geological contact 
- Mineral occurrence 

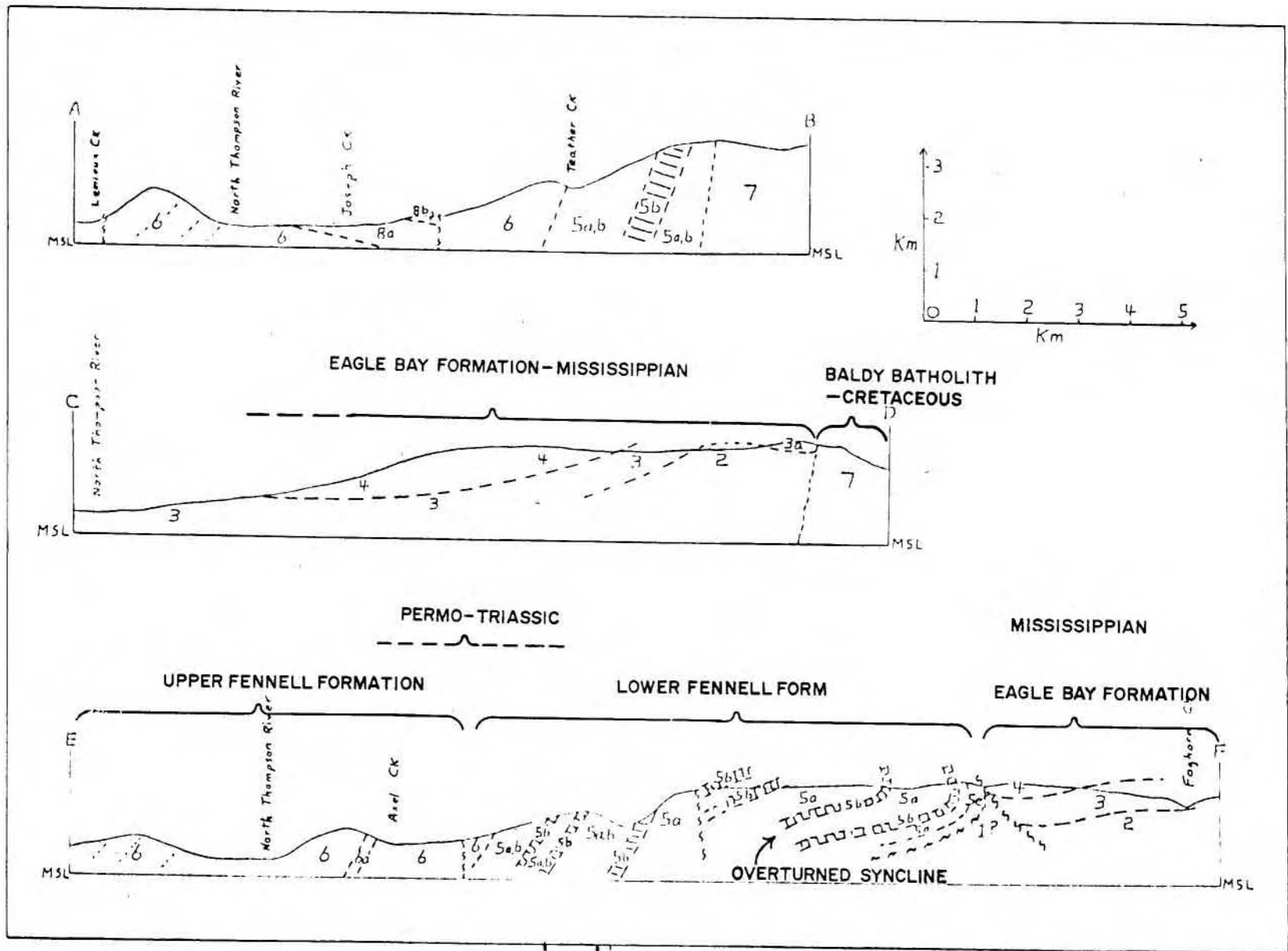


Figure . Vertical cross-sections to accompany Figure .

conglomerate, (5e) sandstone, argillite and phyllite, and (5f) partly crystalline limestone. The Upper Fennell Formation consists mainly of aphanitic to fine grained pillowed basalts with minor discontinuous pods of chert.

Although it is not exposed, the contact between the Lower and Upper Fennell appears to be stratigraphic rather than tectonic.

Unit 7, the Middle Cretaceous Baldy Batholith occupies the southeast corner of the map area. Coarse grained biotite quartz monzonite comprises much of the batholith. A small body of similar rock outcrops in the Joseph Creek valley to the northwest.

A westerly overturned syncline in the Lower Fennell Formation is the dominant structure between Joseph Creek and Clearwater. It plunges shallowly towards the north-northwest. There appears to be a slight flexure in the axial trace from the northeast to the north.

West of the Baldy Batholith, the Fennell Formation comprises a west-dipping and facing homocline. The homocline may be an anitformal deflection of the western upright limb of the syncline.

The Eagle Bay Formation stratigraphy appears to be discordant with the adjacent Fennell Formation. The contact may be an east-dipping thrust fault that post-dates the Fennell Formation syncline.

The Foggy "F" Group appears to be situated near the assumed Upper Fennell-Lower Fennell Formation contact zone.

1.5 Details of 1983 Program

Field work completed in 1983 (Oct. 8-15th) comprised geological mapping and soil geochemical surveying. Details of the exploration program are listed below in Table #2.

(Table #2)

Work Summary

Flag Lines	13.9 km
Soils	223
Geological Mapping	2.3 km ²

All field data is plotted at a 1:5000 metric scale, map #1. Soils were taken at 300 metre line spacings and 50 metre sample intervals. A description of geochemical methods is in Appendix A. Grid lines are chained and flagged at 25 metre intervals.

2.0 Technical Data And Interpretation Of Results

2.1 Introduction

Approximate locations of the Craigmont Mines Ltd. airborne EM and magnetics anomalies and the Foggy "F" Group grid are shown on figure #2. The grid was established using a wide line and soil sample spacing as a first pass ground evaluation of the area. Ground geophysics was not done.

2.2 Geology

The Foggy "F" Group is underlain by Lower Fennell Formation marine volcanic and sedimentary rocks. Units trend NNE to SSW with variable gentle dips to the east or west. Graded bedding attitudes from the chert horizons show the units to be upright, not overturned as in the eastern portion of Foghorn Mountain, figure #3. There is not sufficient grid control to supply adequate geological data which would imply local or prospect scale folding.

A gabbro-diorite sill, four basaltic and four chert/argillite horizons are shown on map #1. The gabbro- diorite and basaltic rocks are easily traced from line to line. The sedimentary units are less resistant and appear to have been squeezed into lens shaped bodies by previous deformational events. This might account for the erratic nature of the

airborne EM anomalies and the poor continuity of these units between lines.

Sediments identified on the property include white-green-black chert and black platy argillite. Both the black chert and argillite contain minor amounts of graphite. These units are presumed to be the source of the airborne EM conductors. The argillites typically contain Tr-2% disseminated pyrite and have gossanous weathered surfaces. The chert beds vary from silty to argillaceous to extremely siliceous. A strong basaltic component is noticeable in the green cherts near Joseph Creek. This is demonstrated by chloritic or mafic crystal layers +/- disseminated pyrite in fine silty interbeds.

Basaltic rocks dominate the grid area. They are divided into three groups to show variations in volcanic type.

- A. Light green, aphanitic, homogenous, no depositional textures noted.
- B. Dark green, aphanitic to granular textured, commonly has a trachytic character with a noticeable increase in feldspar content when proximal to the gabbro-diorite sill.
- C. Micro or coarsely porphyritic, dark green, massive, no depositional textures noted.

Phenocrysts in the coarsely porphyritic basalt are often packed together giving the unit a gabbroic texture.

The gabbro-diorite sill (?) is dominantly a pyroxene plagioclase diorite with apparent gabbroic margins. Texturally the unit is medium to coarse grained and displays a definite intrusive character. Mafics make up approximately 30%

of the groundmass. The unit was noted only between lines 6+00N-9+00N and appears to pinch out to the south.

There is no evidence of base metal mineralization or prominent sulphide bearing horizons on the property. The airborne EM conductors appear to be caused by graphite in chert and argillite. The aeromag anomalies are unexplained.

2.3 Soil Geochemistry

Soil geochemical results are low and do not indicate any zones with anomalous copper, lead, zinc or silver values. Estimated background results for each element are as follows:

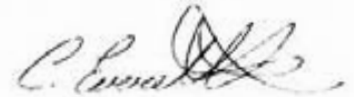
Copper	20-40 ppm
Lead	15-30 ppm
Zinc	60-120 ppm
Silver	0.4-0.8 ppm

One sample copper (127-278 ppm) and silver (2.2-3.3 ppm) anomalies are erratically distributed throughout the grid. There is no continuity of anomalies between lines or any similarity in expected underlying rock type which would imply a specific horizon with above background copper or silver content.

Overburden depths vary between 1-50 metres. Areas marked by (g) on map #1 have deep glacial cover, in excess of 25 metres. The deep overburden might affect the soil geochemistry in these zones.

STATEMENT OF QUALIFICATIONS

I am a Bachelor of Science graduate from the University of New Brunswick (May 1977) and have been employed as an exploration geologist within the mining industry for seven years, the last 4 years with Esso Resources Canada Limited.



CAL C. EVERETT

SUMMARY OF COSTS

COST ESTIMATE: FOGGY F GROUP (OCT 8-15th, 1983)

<u>Type of Work</u>	<u>Man Days</u>	<u>Cost/Man Day</u>	<u>Cost Total</u>
Geology	1	\$ 157.00	\$ 157.00
	3	\$ 142.00	\$ 426.00
	3	\$ 96.00	\$ 288.00
Geochemistry	3	\$ 142.00	\$ 426.00
	3	\$ 96.00	\$ 288.00
Laboratory: 223 soils @ \$6.50 per unit (A.A. Analysis Cu, Pb, Zn, Ag)			\$ 1449.00
Transportation: Vehicle Rental 3/4 ton pickup; 0.2 months @ \$700.00/month			\$ 140.00
Fuel			\$ 61.00
Food and Accommodation 7 man days @ 35.00 per man/per day			\$ 245.00
Material and Supplies (equipment, field supplies etc.)			\$ 75.00
Report Preparation: Writing - 2 man days @ 157.00 per day			\$ 314.00
Drafting - 3 man days @ 96.00 per day			\$ 288.00
Map Reproduction			\$ 20.00
		TOTAL	\$ 4177.00



COST DISTRIBUTION

Geology	\$ 871.00
Geochemistry	\$ 714.00
Analysis	\$ 1449.00
Transportation	\$ 201.00
Food/Accommodation	\$ 245.00
Supplies	\$ 75.00
Report Preparation	\$ <u>622.00</u>
TOTAL	\$ 4177.00
TOTAL APPLIED	\$ 4000.00

LIST OF PERSONNEL

Cal Everett (Project Geologist)
111 - 269 West 4th
North Vancouver, B.C.
V7M 1H8

Ross Almborg (Technician)
5228 Dalhousie Drive N.W.
Calgary, Alberta

Murray Jones (Senior Geological Assistant)
380 Belgo Road
Kelowna, B.C.
V1X 2Z6

APPENDIX A

Geochemical Methods

Soil samples were taken at the B horizon with hand tools, stored in brown gusset bags, dried and shipped to Min En Laboratories in North Vancouver for geochemical analysis. Each sample was oven dried, sieved to obtain the -80 mesh fraction and then subjected to nitric perchloric acid digestion. Measurement of trace element concentrations was done by Atomic Absorption Analysis. Samples were analyzed for Cu, Pb, Zn and Ag. Pulps for all samples are stored at the Esso Minerals Canada office in Vancouver, B.C.

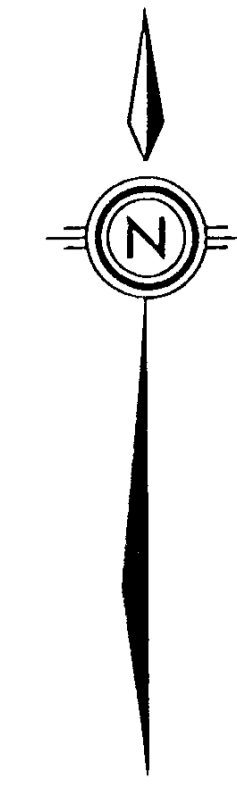
GEOLOGICAL UNITS

FENNEL FORMATION PERMO-TRIASSIC

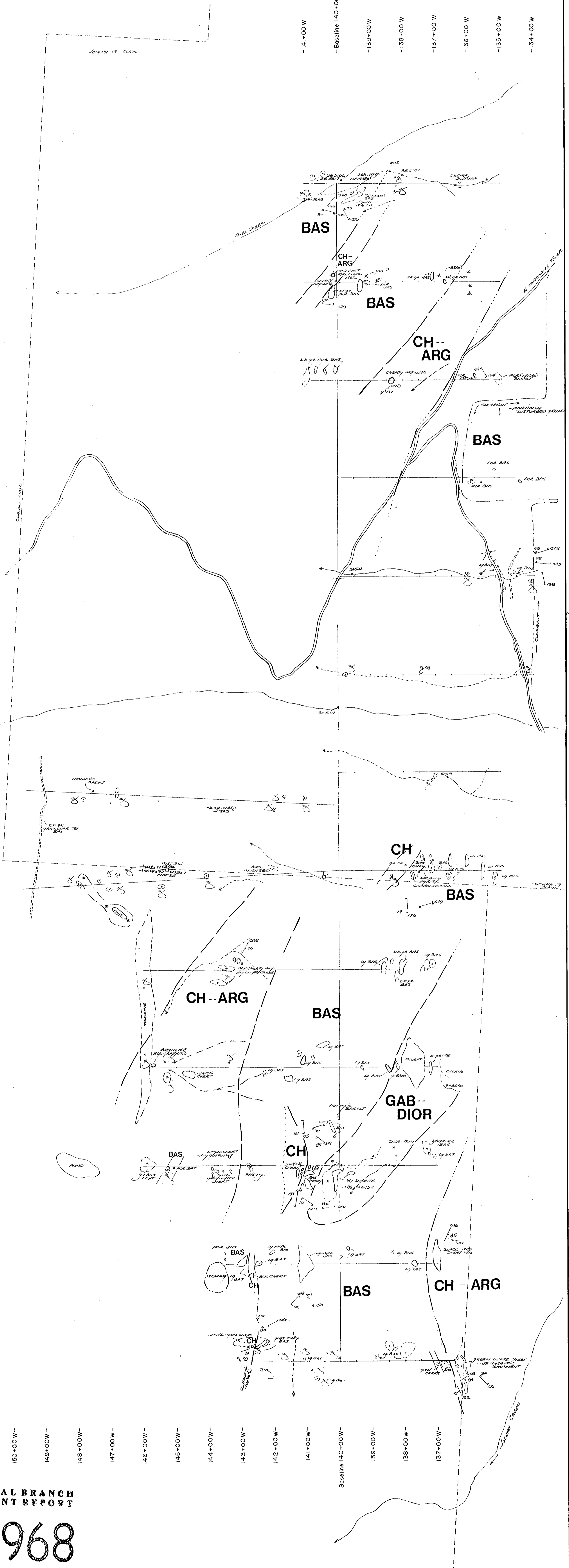
- BAS** BASALT - (L.G. BAS) - Light green, Aphanitic. (D.G. BAS) - Dark green, Aphanitic to granular texture, commonly trachytic with an increase in feldspar content near GABBRO-DIORITE SILL. (OPOR BAS) - Micro to coarse porphyritic, 1-5% pyroxene phenocrysts, dark green.
- CH** CHERT - Green-white-black, silty to intensely siliceous, locally graphitic, locally contains a basaltic component near contacts to basic volcanic flows.
- ARG** ARGILLITE - Black, platy, locally graphitic, often gossious on weathered surfaces.
- GAB-DIOR** GABBRO-DIORITE - Pyroxene (10-30%) plagioclase diorite with gabbroic margins; PROBABLE SILL.

GEOLOGY

- H1+00 W
- Baseline 140+00 W
- 139+00 W
- 138+00 W
- 137+00 W
- 136+00 W
- 135+00 W
- 134+00 W



36+00N
33+00N
30+00N
27+00N
24+00N
21+00N
18+00N
15+00N
12+00N
9+00N
6+00N
3+00N
0+00



SOIL SAMPLE LOCATIONS

3E7599 25.25, 25.00, 0.0	3E7600 25.25, 25.00, 0.0	3E7601 25.25, 25.00, 0.0	3E7602 25.25, 25.00, 0.0	3E7603 25.25, 25.00, 0.0	3E7604 25.25, 25.00, 0.0	3E7605 25.25, 25.00, 0.0	3E7606 25.25, 25.00, 0.0	3E7607 25.25, 25.00, 0.0	3E7608 25.25, 25.00, 0.0	3E7609 25.25, 25.00, 0.0	3E7610 25.25, 25.00, 0.0	3E7611 25.25, 25.00, 0.0	3E7612 25.25, 25.00, 0.0	3E7613 25.25, 25.00, 0.0	3E7614 25.25, 25.00, 0.0	3E7615 25.25, 25.00, 0.0	3E7616 25.25, 25.00, 0.0	3E7617 25.25, 25.00, 0.0	3E7618 25.25, 25.00, 0.0	3E7619 25.25, 25.00, 0.0	3E7620 25.25, 25.00, 0.0	3E7621 25.25, 25.00, 0.0	3E7622 25.25, 25.00, 0.0	3E7623 25.25, 25.00, 0.0	3E7624 25.25, 25.00, 0.0	3E7625 25.25, 25.00, 0.0	3E7626 25.25, 25.00, 0.0	3E7627 25.25, 25.00, 0.0	3E7628 25.25, 25.00, 0.0	3E7629 25.25, 25.00, 0.0	3E7630 25.25, 25.00, 0.0	3E7631 25.25, 25.00, 0.0	3E7632 25.25, 25.00, 0.0	3E7633 25.25, 25.00, 0.0	3E7634 25.25, 25.00, 0.0	3E7635 25.25, 25.00, 0.0	3E7636 25.25, 25.00, 0.0	3E7637 25.25, 25.00, 0.0	3E7638 25.25, 25.00, 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0.0	3E7679 25.25, 25.00, 0.0	3E7680 25.25, 25.00, 0.0	3E7681 25.25, 25.00, 0.0	3E7682 25.25, 25.00, 0.0	3E7683 25.25, 25.00, 0.0	3E7684 25.25, 25.00, 0.0	3E7685 25.25, 25.00, 0.0	3E7686 25.25, 25.00, 0.0	3E7687 25.25, 25.00, 0.0	3E7688 25.25, 25.00, 0.0	3E7689 25.25, 25.00, 0.0	3E7690 25.25, 25.00, 0.0	3E7691 25.25, 25.00, 0.0	3E7692 25.25, 25.00, 0.0	3E7693 25.25, 25.00, 0.0	3E7694 25.25, 25.00, 0.0	3E7695 25.25, 25.00, 0.0	3E7696 25.25, 25.00, 0.0	3E7697 25.25, 25.00, 0.0	3E7698 25.25, 25.00, 0.0	3E7699 25.25, 25.00, 0.0	3E7700 25.25, 25.00, 0.0	3E7701 25.25, 25.00, 0.0	3E7702 25.25, 25.00, 0.0	3E7703 25.25, 25.00, 0.0	3E7704 25.25, 25.00, 0.0	3E7705 25.25, 25.00, 0.0	3E7706 25.25, 25.00, 0.0	3E7707 25.25, 25.00, 0.0	3E7708 25.25, 25.00, 0.0	3E7709 25.25, 25.00, 0.0	3E7710 25.25, 25.00, 0.0	3E7711 25.25, 25.00, 0.0	3E7712 25.25, 25.00, 0.0	3E7713 25.25, 25.00, 0.0	3E7714 25.25, 25.00, 0.0	3E7715 25.25, 25.00, 0.0	3E7716 25.25, 25.00, 0.0	3E7717 25.25, 25.00, 0.0	3E7718 25.25, 25.00, 0.0	3E7719 25.25, 25.00, 0.0	3E7720 25.25, 25.00, 0.0	3E7721 25.25, 25.00, 0.0	3E7722 25.25, 25.00, 0.0	3E7723 25.25, 25.00, 0.0	3E7724 25.25, 25.00, 0.0	3E7725 25.25, 25.00, 0.0	3E7726 25.25, 25.00, 0.0	3E7727 25.25, 25.00, 0.0	3E7728 25.25, 25.00, 0.0	3E7729 25.25, 25.00, 0.0	3E7730 25.25, 25.00, 0.0	3E7731 25.25, 25.00, 0.0	3E7732 25.25, 25.00, 0.0	3E7733 25.25, 25.00, 0.0	3E7734 25.25, 25.00, 0.0	3E7735 25.25, 25.00, 0.0	3E7736 25.25, 25.00, 0.0	3E7737 25.25, 25.00, 0.0	3E7738 25.25, 25.00, 0.0	3E7739 25.25, 25.00, 0.0	3E7740 25.25, 25.00, 0.0	3E7741 25.25, 25.00, 0.0	3E7742 25.25, 25.00, 0.0	3E7743 25.25, 25.00, 0.0	3E7744 25.25, 25.00, 0.0	3E7745 25.25, 25.00, 0.0	3E7746 25.25, 25.00, 0.0	3E7747 25.25, 25.00, 0.0	3E7748 25.25, 25.00, 0.0	3E7749 25.25, 25.00, 0.0	3E7750 25.25, 25.00, 0.0	3E7751 25.25, 25.00, 0.0	3E7752 25.25, 25.00, 0.0	3E7753 25.25, 25.00, 0.0	3E7754 25.25, 25.00, 0.0	3E7755 25.25, 25.00, 0.0	3E7756 25.25, 25.00, 0.0	3E7757 25.25, 25.00, 0.0	3E7758 25.25, 25.00, 0.0	3E7759 25.25, 25.00, 0.0	3E7760 25.25, 25.00, 0.0	3E7761 25.25, 25.00, 0.0	3E7762 25.25, 25.00, 0.0	3E7763 25.25, 25.00, 0.0	3E7764 25.25, 25.00, 0.0	3E7765 25.25, 25.00, 0.0	3E7766 25.25, 25.00, 0.0	3E7767 25.25, 25.00, 0.0	3E7768 25.25, 25.00, 0.0	3E7769 25.25, 25.00, 0.0	3E7770 25.25, 25.00, 0.0	3E7771 25.25, 25.00, 0.0	3E7772 25.25, 25.00, 0.0	3E7773 25.25, 25.00, 0.0	3E7774 25.25, 25.00, 0.0	3E7775 25.25, 25.00, 0.0	3E7776 25.25, 25.00, 0.0	3E7777 25.25, 25.00, 0.0	3E7778 25.25, 25.00, 0.0	3E7779 25.25, 25.00, 0.0	3E7780 25.25, 25.00, 0.0	3E7781 25.25, 25.00, 0.0	3E7782 25.25, 25.00, 0.0	3E7783 25.25, 25.00, 0.0	3E7784 25.25, 25.00, 0.0	3E7785 25.25, 25.00, 0.0	3E7786 25.25, 25.00, 0.0	3E7787 25.25, 25.00, 0.0	3E7788 25.25, 25.00, 0.0	3E7789 25.25, 25.00, 0.0	3E7790 25.25, 25.00, 0.0	3E7791 25.25, 25.00, 0.0	3E7792 25.25, 25.00, 0.0	3E7793 25.25, 25.00, 0.0	3E7794 25.25, 25.00, 0.0	3E7795 25.25, 25.00, 0.0	3E7796 25.25, 25.00, 0.0	3E7797 25.25, 25.00, 0.0	3E7798 25.25, 25.00, 0.0	3E7799 25.25, 25.00, 0.0	3E7800 25.25, 25.00, 0.0
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- LEGEND**
- CLINIC LINE
 - CLINIC POST
 - TRUSS
 - OUTCROP
 - ROAD
 - STRAIN DEBRIS
 - STRAIN
 - ROAD
 - TRAIL
 - TEMPORARY BOUNDARY DEFINITE
 - PROBABLE
 - UNSURE
 - BOUNDARY (INCLUDED, VERTICAL)
 - FULTON (INCLUDED, VERTICAL)
 - CONTACT (INCLUDED, VERTICAL)
 - SHOULDER
 - WATERLINE

Sample No. Cu, Pb, Zn, Ag (ppm)
3E7800, 100, 50, 200, 15

SCALE 1:5000

0 200metres

ESSO MINERALS CANADA

BARRIER PROJECT

RECONNAISSANCE
PROSPECTING-GEOCHEMISTRY
MAP

Project No. 2189

NTS 92 P/8E Long 119°54'W
Lat. 51°32'N

Mining Division/KAMLOOPS Drawn By: C.E.

Date: NOV. 1983 Map No. 1

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

11,968