BRITISH COLUMBIA

PROSPECTORS ASSISTANCE PROGRAM

MINISTRY OF ENERGY AND MINES

GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:	2000/2001
REPORT #:	PAP 00-38
NAME:	LINDA CARON

PROSPECTOR'S ASSISTANCE PROGRAM

FINAL PROJECT REPORT

for

Linda Caron
Reference # 2000/2001 P34

Part A – Summary of Prospecting Activities

Part B – Technical Report
- Arrow Lakes - North Fork area
- Lavington area

Prepared by:
Linda Caron
Box 2493
Grand Forks, B.C.
(250) 442-5078

December 2000

D. TECHNICAL REPORT

- One technical report to be completed for each project area.
- **Refer to Program Regulations 15 to 17, pages 6 and 7.**

BRITISH COLUMBIA
Ministry of Energy and Mines
Energy and Minerals Division

Information on this form is confidential subject to the provisions of the *Freedom of Information Act.*

SUMMARY OF RESULTS

- This summary section must be filled out by all grantees, one for each project area

Name Linda Caron Reference Number 2000/01 P-34

LOCATION/COMMODITIES

Project Area (as listed in Part A) Arrow Lakes - North fork MINFILE No. if applicable -

Location of Project Area NTS 82E/9 Lat 49°31' → 49°40' Long 118°09' → 118°25'

Description of Location and Access North from Grand Forks on the Granby rd for 50 km, then north on the Burrell Ck. road for 25 km to the southern part of the project area. The Jump Ck rd at ~38 km provides access to the northern and eastern parts of the area.

Prospecting Assistants(s) - give name(s) and qualifications of assistant(s) (see Program Regulation 13, page 6)

John Kemp: completed Basic & Advanced Prospecting courses, recipient of PAP grant
Don Hairsine: completed Basic & Advanced Prospecting courses, past recipient of PAP grant.

Main Commodities Searched For Pt, Pd, Au, Cu

Known Mineral Occurrences in Project Area Franklin Camp

WORK PERFORMED

1. Conventional Prospecting (area) 130 km^2
2. Geological Mapping (hectares/scale)
3. Geochemical (type and no. of samples) 23 heavy min, 13 silt, 11 moss matt, 19 rock samples
4. Geophysical (type and line km)
5. Physical Work (type and amount)
6. Drilling (no. holes, size, depth in m, total m)
7. Other (specify)

Best Discovery

Project/Claim Name Holy Zone Showing Commodities Ag, Cu, Mo, Pb, Zn

Location (show on map) Lat. 49° 35' 30" Long 118° 15' Elevation 5800'

Best assay/sample type Rock samples to 61 g/t Ag, 1133 ppm Cu, 2362 ppm Mo 2159 ppm Zn, 2146 ppm Pb (samples PG-15 to PG-19, see map)

Description of mineralization, host rocks, anomalies A north striking silicified zone occurs in a coarse grained alkalic intrusive, near the intersection of two regional fault zones. Quartz +/- pyrite veinlets and silica flood zones occur within the altered zone which is exposed for about 75 metres on strike. The width of the zone is unknown.

FEEDBACK: comments and suggestions for Prospector Assistance Program

Technical Report - Arrow Lakes-North Fork Area

Part 1 of the work program was a regional prospecting program aimed at platinum group element mineralization in south central B.C. The program was designed to test for PGE mineralization in alkalic intrusions and Alpine type ophiolites. Several PGE occurrences are documented in the area, related to mafic phases of the Coryelle suite.

Initially it was proposed that work would be done in two areas, the Arrow Lakes-North Fork area and the Rock Creek area. When initial results were encouraging from the Arrow Lakes-North Fork area and when a conflict arose in the Rock Creek area due to work by myself for a client, permission was obtained to drop the Rock Creek portion of the program and concentrate efforts in the Arrow Lakes-North Fork region.

A total of 32 prospecting days was completed on Part 1 of the prospecting program. Twenty-three heavy mineral samples, 13 silt samples, 19 rock samples and 11 moss matt samples were collected and submitted for analysis. Sample locations are shown on the attached 1:50,000 topographic map. A list of sample descriptions and analytical results is also included. Although prospecting was done on adjoining map sheets, all the samples collected and all the areas of interest discovered were situated on NTS 82E/9.

The majority of previous exploration in the proposed prospecting area was in the Franklin Camp. Mineralization here consists of gold-silver veins, copper skarn occurrences, and platinum and copper mineralization related to a zoned mafic intrusion of the Coryelle suite. Although title to these occurrences was held by others, they were examined early in the work program, to gain a familiarity with the styles of mineralization and host rocks. Next, strong aeromagnetic anomalies were prospected and several similar mafic intrusions were discovered. Several additional alkalic mafic intrusions were known from past work in the area, and these were also revisited to test for mineralization. Only one rock sample collected had any copper mineralization (PG-2: 1106 ppm Cu) and none returned any anomalous platinum or palladium.

A program of heavy mineral sampling was then initiated to test large areas in which these alkalic intrusions were situated and where aeromagnetics revealed the presence of large, regional structures. Initially, a heavy mineral sample and a conventional silt sample was collected from each creek sampled. Samples were analyzed for gold, 28 element ICP and for platinum and palladium. Five heavy mineral samples collected showed exceptional gold grades. The geographic distribution of the samples indicated that the source of the gold was coming from a specific area, near the height of land between Burrell Creek and the Arrow Lakes. There were no documented mineral occurrences in this area and road access was limited. None of the samples collected returned anomalous platinum or palladium, and none of the silt samples showed any elevated elements. It was decided that subsequent samples would not be analyzed for platinum or palladium and that silt sampling was ineffective and did not support heavy mineral data so it too would be omitted in the future. Efforts were focussed at trying to track down a source to the large area of anomalous gold.

Initially this involved re-sampling anomalous sites by the same heavy mineral method, and conducting follow-up heavy mineral sampling and prospecting higher up in these anomalous drainages. When the results were obtained from these follow-up samples, none confirmed the presence of gold in the original samples. It was then requested that the lab re-run all heavy mineral samples (both original and follow-up) to determine if the original gold was a result of lab contamination. Re-runs confirmed the presence of gold in the original samples, and confirmed the lack of gold in the repeat and follow-up samples.

There was a considerable time delay between the original and the follow-up samples, and research was done to try to explain the discrepancy in the results for natural reasons, such as seasonal fluctuations in the creeks. Following discussions with Ray Lett, of the Ministry of Energy and Mines, it was decided to resample all the original creeks, plus any others in this area, by moss matt sampling. Work by the Ministry had shown that in creeks where heavy mineral sampling returned anomalous gold in the 1000-2000 ppb range, conventional silts would typically show <5 ppb gold, and moss matt samples would be in the 50-100 ppb gold range. Eleven moss matt samples were collected. Additional prospecting was also done in the area and a zone of silicification with elevated silver and base metals was discovered. This zone, referred to as the "Holy Zone" returned up to 61g/t Ag, 1133 ppm Cu, 2362 ppm Mo, 2159 ppm Zn and 2146 ppb Pb.

When the results from the moss matt samples were obtained, none showed elevated gold. Since we know that our sluice used to collect the heavy mineral samples had not been used on gold rich samples prior to use in this program, the only conclusion we can come to is that the initial heavy mineral samples were contaminated in the lab. Unfortunately it took a lot of time and resources to reach this conclusion.

The only other significant result in the program was a rock sample collected from the Mac zone which returned 6% Pb, 4.1% Zn and 3314 ppm Cu. A large alteration zone (argillic, silicification) is exposed in road cuts in a granodiorite to syenitic intrusive. Several old blast pits were known to occur within this area (the Nove showing, minfile 82ENE045). Although mineralization looks quite restricted, IP documented in the assessment reports is interesting and probably warrants follow-up. Unfortunately, this area was staked by others shortly after we examined and sampled it.

Arrow Lakes · North Fork Area

Sample Locations: Rock, Silt, Moss Matt, Heavy Mineral
PG-1 → 19 PGST-1 → 13 PGM-1 → 11 PGS-1 → 23

82 E/9 1:50,000 CANADA EDITION 2 82 E/9

Military users, refer to this map as: Référence de cette carte pour usage militaire: SERIES A 721 SÉRIE MAP 82 E/9 CARTE EDITION 2 MCE EDITION

GLOSSARY GLOSSAIRE

Airfield ... Terrain d'aviation
Arena ... Arena
City Limits ... Limites de ville
Cordoba ... Douane
Ditch ... Fossé
Dugout ... Abreuvoir
Dump ... Dépotoir
Filtration Plant ... Usine de filtration
Gas ... Gaz
Golf Course ... Terrain de golf
Junk Yard ... Ferraille
Kiln ... Four
Lookout ... Belvédère
Mine Waste ... Déblai de mine
Oil Wells ... Puits de pétrole
Park ... Parc
Rink ... Patinoire
Senior Citizens Home ... Foyer de l'âge d'or
Ski Area ... Station de ski
Strong Beg ... Fondrière à filaments
Surveyed Line ... Ligne arpentée
Tank ... Réservoir
Water ... Eau
Winter Road ... Chemin d'hiver

for a complete glossary see reverse side
Pour un glossaire complet, voir au verso

ABBREVIATIONS ABRÉVIATIONS

Aband. ... Abandoned ... Abandonné, ée
C. ... Cemetery ... Cimetière
CO. ... County ... Comté
E. ... Elevator ... Elevateur
Fy. ... Ferry ... Traversier
IR. ... Indian Reserve ... Réserve indienne
H. ... Hospital ... Hôpital
L. ... Lot ... Lot
Micro. ... Microwave ... Micro-ondes
Mun. ... Municipality ... Municipalité
P. ... Post Office ... Bureau de poste
PH. ... Power House ... Centrale électrique
RCMP. ... Royal Canadian Mounted Police ... Gendarmerie Royale Canadienne
Res. ... Reservoir ... Réservoir
Trans Sta. ... Transformer Station ... Poste de transformateurs
TFL. ... Tree Farm Licence ... Licence de sylviculture

TRUE NORTH 0°57' WEST OF GRID 17 MILS — GRID NORTH 22°34' WEST OF MAGNETIC NORTH 401 MILS — MAGNETIC NORTH

Use diagram only to obtain numerical values
APPROXIMATE MEAN DECLINATION 1978
FOR CENTRE OF MAP
Annual change decreasing 4.9'

Utiliser le diagramme que pour obtenir les valeurs numériques
DÉCLINAISON MOYENNE APPROXIMATIVE
AU CENTRE DE LA CARTE EN 1978
Variation annuelle décroissante 4.9'

ONE THOUSAND METRE
UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 11
QUADRILLAGE DE MILLE MÈTRES
TRANSVERSE UNIVERSEL DE MERCATOR

GRID ZONE DESIGNATION / DÉSIGNATION DE LA ZONE DU QUADRILLAGE: 11U

100,000 M. SQUARE IDENTIFICATION / IDENTIFICATION DU CARRÉ DE 100,000 M.: LF MF / LE ME

EXAMPLE OF METHOD USED TO GIVE A REFERENCE TO NEAREST 100 METRES
EXEMPLE DE LA MÉTHODE EMPLOYÉE POUR FIXER DES RÉPÉRES À 100 MÈTRES PRÈS

REFERENCE POINT / POINT DE REPÈRE CHURCH · ÉGLISE	(as above / ci-dessus)
EASTING: Read number on grid line immediately to left of point. LONGITUDE EST: Noter le chiffre de la ligne du quadrillage immédiatement à gauche du repère.	97
Estimate tenths of a square from this line eastward to point. Estimer le nombre de dixièmes du carré entre cette ligne et le repère en direction est	5
	975
NORTHING: Read number on grid line immediately below point. LATITUDE NORD: Noter le chiffre de la ligne du quadrillage immédiatement en dessous de repère.	98
Estimate tenths of a square from this line northward to point. Estimer le nombre de dixièmes de carré entre cette ligne et le repère en direction nord.	4
GRID REFERANCE. REFÉRENCE AU QUADRILLAGE:	984
	975984

Nearest lumber grid reference 100,000 metres (about 62 miles)
La prochaine référence lumineuse est à 100,000 mètres (environ 62 milles)

TABLEAU D'ASSEMBLAGE DU SYSTÈME NATIONAL DE RÉFÉRENCE CARTOGRAPHIQUE

82 E/15	82 E/16	82 F/13
82 E/10	82 E/9	82 F/12
82 E/7	82 E/8	82 F/5

INDEX TO ADJOINING MAPS OF THE NATIONAL TOPOGRAPHIC SYSTEM

BURRELL CREEK
82 E/9
EDITION 2

Produced by the SURVEYS AND MAPPING BRANCH, DEPARTMENT OF ENERGY, MINES AND RESOURCES. Updated from aerial photographs taken in 1975. Culture check 1976. Information current as of 1976.

Copies may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa, or your nearest map dealer.

BURRELL CREEK
BRITISH COLUMBIA
Scale 1:50,000 Échelle

Roads: Routes:
loose or stabilized surface ... all weather ... gravier, agglomeré, toute saison ... 2 lanes or more / plus de 2 voies ... less than 2 lanes / moins de 2 voies
loose surface, dry weather ... de gravier, temps sec
unclassified streets ... rues hors classe
cart track ... de terre
trail, cut line or portage ... sentier, percée ou portage

FOR COMPLETE REFERENCE SEE REVERSE SIDE — POUR UNE LISTE COMPLÈTE DES SIGNES VOIR AU VERSO

Miles 1 0 1 2 3 Miles
Metres 1000 0 1000 2000 3000 4000 Metres
Yards 1000 0 1000 2000 3000 4000 Yards

CONVERSION SCALE FOR ELEVATIONS
Metres 30 20 10 0 50 100 150 200 250 300 Metres
Feet 100 50 0 100 200 300 400 500 600 700 800 900 1000 Feets

CONTOUR INTERVAL 100 FEET
Elevations in Feet above Mean Sea Level
North American Datum 1927
Transverse Mercator Projection

ÉCHELLE DE CONVERSION DES ÉLÉVATIONS

ÉQUIDISTANCE DES COURBES 100 PIEDS
Élévations en pieds au-dessus du niveau moyen de la mer
Système de référence géodésique nord-américain 1927
Projection transverse de Mercator

Établie par la DIRECTION DES LEVÉS ET DE LA CARTOGRAPHIE, MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES. Mise à jour à l'aide de photographies aériennes prises en 1975. Vérifications des ouvrages en 1976. Renseignements à jour en 1976.

Ces cartes sont en vente au Bureau des Cartes du Canada, ministère de l'Énergie, des Mines et des Ressources, Ottawa, ou chez le vendeur le plus près.

00-38 PG. 18

D. TECHNICAL REPORT

- One technical report to be completed for each project area.
- **Refer to Program Regulations 15 to 17, pages 6 and 7.**

BRITISH COLUMBIA
Ministry of Energy and Mines
Energy and Minerals Division

Information on this form is confidential subject to the provisions of the *Freedom of Information Act.*

SUMMARY OF RESULTS

- This summary section must be filled out by all grantees, one for each project area

Name Linda Caron Reference Number 2000/01 P-34

LOCATION/COMMODITIES

Project Area (as listed in Part A) Lavington MINFILE No. if applicable 82LSW120

Location of Project Area NTS 82L/6E Lat 50° 16' Long 119° 08'

Description of Location and Access At Lavington turn north off Hwy 6 onto the Noble Canyon road, taking the Becker Lake branch for about 8 km. A spur road at 12 km provides access to the western portion of the property

Prospecting Assistants(s) - give name(s) and qualifications of assistant(s) (see Program Regulation 13, page 6)
John Kemp - completed Basic and Advanced Prospecting courses, recipient of numerous PAP grants

Main Commodities Searched For Au, Ag, Cu, Pb, Zn

Known Mineral Occurrences in Project Area Lav - 82LSW120

WORK PERFORMED

1. Conventional Prospecting (area)
2. Geological Mapping (hectares/scale) ~400 ha, 1:10,000
3. Geochemical (type and no. of samples) 4 rock samples
4. Geophysical (type and line km) Mag, VLF-EM - 7.5 line km ; SP - 2 line km
5. Physical Work (type and amount) gridding - 8.2 line km
6. Drilling (no. holes, size, depth in m, total m)
7. Other (specify)

Best Discovery

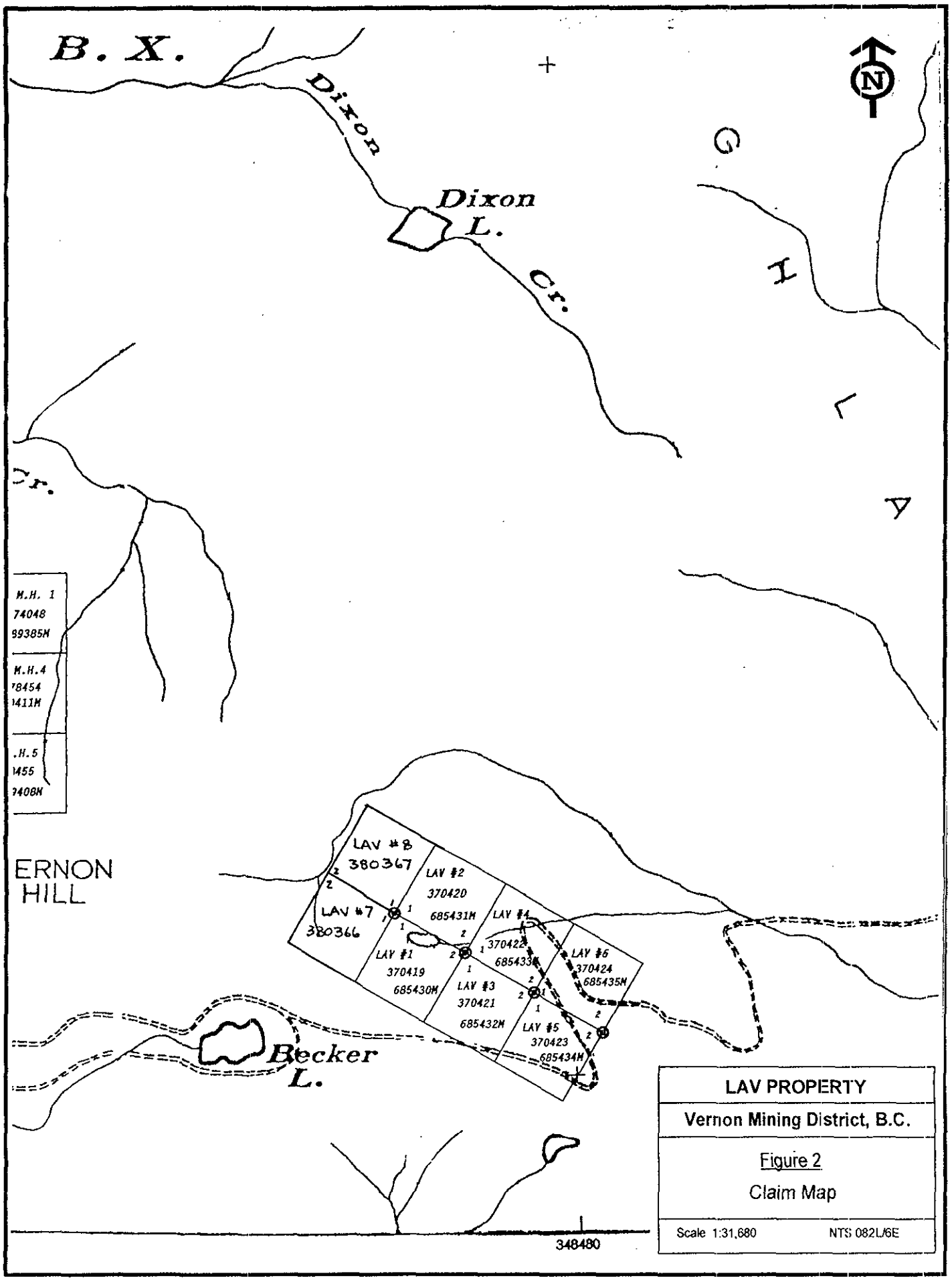
Project/Claim Name Lav #4 Commodities Ag, Zn

Location (show on map) Lat. 50° 16' 00" Long 119° 07' 40" Elevation 1110 m

Best assay/sample type Rock sample L00-1R : 5626 ppm Zn, 15.6 ppm Ag

Description of mineralization, host rocks, anomalies A black earthy zone of decomposing rock is exposed in an east-west trending fault zone near or at the contact of the intensely altered qtz-py-sericite schist with a fine grained diorite.

FEEDBACK: comments and suggestions for Prospector Assistance Program


B. X.
Dixon
Dixon L.
Cr.
N
G
I
L
A
Y
Cr.
M.H. 1
74048
99385M
M.H.4
78454
1411M
.H.5
1455
9408M
ERNON
HILL
LAV #8
380367
LAV #2
370420
685431M
LAV #7
380366
LAV #4
370422
685433M
LAV #1
370419
685430M
LAV #6
370424
685435M
LAV #3
370421
685432M
LAV #5
370423
685434M
Becker
L.
348480
LAV PROPERTY
Vernon Mining District, B.C.
Figure 2
Claim Map
Scale 1:31,680
NTS 082L/6E

Technical Report - Lavington Area

The second area covered by the prospecting program was a follow-up work program in the Lavington area. During regional prospecting in 1999 (under the Prospector's Assistance Program), a block of ground was staked to cover an zone of extensive quartz-pyrite-sericite alteration in a felsic volcanic/intrusive package (Minfile 082LSW120). A large multielement soil anomaly (gold + base metals + epithermal type elements) is associated with the altered felsic volcanics/intrusive. The geology, alteration and geochemical signature are consistent with a transitional porphyry-epithermal Au-Ag environment, however the lack of rock exposure makes prospecting difficult. The program completed during 2000 involved staking 2 additional claims to better cover the anomalous area in soils, establishing a grid over a portion of the known prospective area and completing mag and VLF/EM surveys over the grid to test the effectiveness of geophysics as an exploration tool. In addition, an SP survey was run over a portion of the grid. Detailed geological mapping was done over a portion of the claims, to better determine the geological environment and controls of alteration and mineralization. Regional prospecting and mapping was also done determine the regional setting.

A total of 21 prospecting days were spent on this portion of the program. Four rock samples were collected and 8.2 line km of grid was established. Seven and a half line kilometres of mag and VLF-EM survey was run, and 2 line kilometres of SP survey was completed.

The geology of the area in the vicinity of the property is shown on the attached map. Outcrop is generally quite limited, particularly in areas underlain by quartz-pyrite-sericite schist and by argillite. Mapping showed that metamorphic rocks of the Monashee Group outcrop in the area west of the claims. A north-northwest trending fault occurs just east of Becker Lake (described by Jones (1959) as the Lavington unconformity) and separates the Monashee rocks from the younger probable Cache Creek Group rocks to the east. East of the fault, in the southern portion of the claim block, a thick sequence of well bedded argillite of the Cache Creek Group is exposed. Quartz sweat type veining is common within the argillite. Narrow mafic volcanic flows occur in a number of places within the argillite.

The argillite is overlain, or perhaps intruded along the upper contact, by a bleached, well foliated, intensely altered zone of quartz-pyrite-sericite schist some 200-400 metres wide. The main gold + multi-element soil anomaly correlates with this unit and drilling by BP showed elevated gold values within the sericite schist. The sericite schist trends roughly 120°.

A sample of this unit was submitted for petrographic examination and was described as "a sheared, weathered meta-volcanic or related rock". Detailed examination of the unit in outcrop and of contact relations supports a quartz-feldspar intrusive protolith for the schist.

The rock is moderate to strongly foliated, bleached and strong to intensely altered. Alteration consists of fine grained quartz and sericite in the groundmass. Locally, tabular sericitized plagioclase can by observed, as well as rare shattered quartz eyes. Tourmaline is common, up to 5%, as disseminated radiating clusters of crystals, and as fine black bands within the schist. Pyrite is widespread, up to about 10%, occurring predominantly as fine grained, euhedral, disseminated crystals and less commonly as narrow veinlets parallel to foliation. Locally stockworking pyrite veinlets are seen. A gradation is seen from a massive quartz-feldspar porphyry, through coarse and fine grained, crowded feldspar porphyry, to the quartz-pyrite sericite schist.

The main zone of quartz-pyrite-sericite schist in the central portion of the claims has been previously recognized. The upper contact of this main zone is marked by a fine, crowded feldspar

porphyritic intrusive. During the course of geological mapping, a second northwest trending zone of this strongly altered feldspar porphyry was discovered in the southwest portion of the claims. This is particularly interesting since the northern contact of this unit with the argillite corresponds to a strong geophysical anomaly (mag, VLF-EM, and SP - Anomaly D, see attached report), since geological contacts may be an important ore control, and since this area has not been tested by previous work on the property.

A foliated biotite granondiorite intrusive, probably belonging to the Cretaceous Nelson Plutonic complex occurs in the northwestern portion of the property. Quartz sweat type veining is common within the granodiorite. To the northeast, the quartz-pyrite-sericite schist is bounded by a unit which has been described previously as an andesitic volcanic of the Cache Creek Group. Mapping during this program suggests that this unit is not a volcanic, but rather a fine grained diorite. It's age and relationship to the granodiorite to the west is unknown.

Four rock samples were collected during the course of mapping and prospecting. Sample descriptions and analytical results are attached. Sample locations are shown on the attached map. Sample L00-1R was collected from a zone of black earthy decomposing rock that resembled Mn wad. The zone occurs in small creek adjacent to the main Becker Lake road. The creek may represent an east-west trending fault zone near or at the upper contact of the sericite schist unit with the fine grained diorite to the north. This sample returned 5626 ppm Zn, 15.6 ppm Ag, >10% Al and anomalous Ba, Co, Cu, La, Ni, and Y. Additional prospecting of this area and of the east-west trending gully should be done to determine the nature and extent of this unit. It would also be interesting to extend the geophysics to cover this area.

Geophysics proved to be an effective exploration tool on the Lav property.A series of maps plus a short summary to accompany these maps was prepared by geophysicist Jerry Thorton, and is attached. The most significant anomaly discovered to date is referred to as Anomaly D in the accompanying report. This strong coincident mag, VLF-EM and SP anomaly corresponds to the approximate contact of the argillite with the southern feldspar porphyry intrusive. Prospecting and detailed mapping should be done in this area, followed by possible trenching of the anomaly. Further geophysics is recommended to test the remainder of the property.

Legend on following page.

Area of outcropping shown by ××× symbol.

Geology by L. Caron, 2000.

claim boundary

Cache Ck Group

Monashee Group

Becker Lake

± 1215

1328

1321

1285

1300

fine biotite gneiss

gdior gneiss

gneiss

talc. carb. altd

minor 4a dykes, minor

numerous 4a dykes

LAV PROPERTY

Vernon Mining District, B.C.

Geology Map
(showing rock sample locations)

Scale 1:10,000

NTS 82L/06
TRIM 082L.025

LEGEND

8 Biotite-Fsp-Px porphyritic dykes. Dark grey, massive, fresh looking (Tertiary). Exposed near major fault contact - may be altered and rubbly.

7 *Strongly magnetic diorite and hornblende diorite* dykes. Dark grey, fresh looking. Age unknown - seen cutting unit 2.

6 Granodiorite and biotite granodiorite. Probably Cretaceous Nelson intrusive. Grey, fine grained, equigranular, may be weakly gneissic.

5 Quartz-pyrite-sericite schist and related intrusive rocks. All phases are intensely clay-sericite altered. Contacts between the different phases appear gradational.
5a = Massive quartz feldspar porphyry
5b = Coarse grained, massive, crowded feldspar (+/- qtz eyes) porphyry
5c = Fine crowded feldspar porphyry, weakly to moderately foliated (+/- qtz eyes).
5d = Quartz-pyrite-sericite schist, strongly foliated.

4 Fine grained diorite. Age and relationship to Unit 6 are uncertain.
4a= talc carbonate altered diorite. Mottled cream to maroon coloured. Common near intrusive contacts and in dykes of this unit.
May also be propylitic or argillic altered.

3 CACHE CREEK GROUP (?)
Fine grained mafic volcanic to chlorite schist, occurs as thin flows within the argillite.

2 Black argillite and calcareous phyllite. 2a = black argillaceous limestone.

1 MONASHEE GROUP
Granitoid gneiss, biotite augen gneiss and chlorite schist.

Lav Property Geophysics

Ground Magnetometer and VLF surveys totalling approximately 7.5 and 5.5 km respectively were carried out over part of the Lav property during the period October 4 & 5 and November 12. Reconnaissance lines at 50 and 100 meter intervals with stations at 10 meter intervals had been established in early October. Due to active logging in the area, some data was not gathered until mid-November.

The southern parts of Lines 95E to 98E inclusive (a total of approximately 2.5 km) were also subjected to a gradient SP survey using a 20 meter interelectrode distance. Due to the limited amount of data and the variable calibration corrections, no attempt was made to create an SP contour map: the location of significant self potential voltages has been plotted as bullseyes on the accompanying map.

The magnetic data was corrected for diurnal variation on lines 98E to 95E inclusive. Lines 93E to 9450E were level shifted to match the earlier data. Line 95E was duplicated and provided an accurate reference for the level shift. Less than 20 nT difference was noted between the October and November surveys. Stacked profile maps of the magnetic and VLF-EM data were plotted. Contour maps of the magnetic data and the Fraser-filtered In-Phase VLF response were also made.

Observations

Four distinct linear magnetic anomalies are noted traversing the survey area parallel to the base line accompanied by colinear VLF anomalies evidenced by In Phase "crossovers" and corresponding increases in field strength.. Since Seattle and Cutler were each off-air for part of the survey, VLF data provided by an unknown station transmitting at 25.2 kHz was used. Its response generally mimics the Cutler data and therefore the transmitter direction is assumed to be approximately co-linear with Cutler.

Self Potential measurements are classed as follows:

Class 1: Individual measurements greater than +/-200 mv. generally show the presence of strong electrochemical action and are usually caused by oxidation of pyrite and/or pyrrhotite but can also be caused by coal measures. Actively oxidizing pyrite in a shear zone or fault at the surface can generate voltages in excess of 500 mv.

Class 2: Those anomalies of +/-50 mv or more. They are often caused by flowing groundwater and/or ionic conduction within faults and shears. They can also be caused by contrasts between rock types (intrusive vs limestone), especially where there is some sulfide content.

Class 3: Distinct anomalies of less than +/-50 mv. are of considerably lower priority but if broad in horizontal dimension may indicate a deep source. They are usually a result of rock contact phenomenon but can also reflect differences in oxygen concentration in the groundwater. They often occur at a break in slope or traversing a valley bottom or over a hill. This type of SP anomaly often occurs with geochemical anomalies that arise where subsurface water is forced to the surface by subsurface topography.

Zone A has been downgraded and removed from the study. It was a very weak magnetic low with weak VLF anomalies on L 95E to L 98E inclusive.

Zone B (mag/VLF) appears to be caused by a thin vertically to steeply dipping ribbon of moderate to low conductivity.

Zone C (mag only) is stronger than "B", possibly somewhat thicker and appears to extend only to Line 95E.

Zone C1 (trending E/W, thereby bucking the trend of the mag/VLF series) is a VLF only series of anomalies extending from L 95E to L 98E. It is not well defined on lines 97E and 98E and because it is situated on the trend of a small lake, may be caused by saturated clays.

Zone D extends across the grid to L 98E, where the magnetic signature stops abruptly but the VLF response continues to L 100E but possibly as a multiple source. These VLF anomalies are the clearest and strongest in the survey. On L 99E, the VLF appears to arise from a slightly deeper source and there is NO associated magnetic response. Here the source is probably iron and/or copper sulfides.

Zone E also extends across the grid as a narrow zone, probably containing up to three closely spaced magnetric ribbons. On L 100E, the zone may dip north. The response of this zone on L 97E also exhibits a north dip. L 96E and 98E and the western most lines show the multiple source nature and cannot be interpreted for dip. Most of the magnetic and VLF anomalies lie very close to surface and have little depth extent.

All indications of dip in the magnetic and to a lesser degree in the VLF response are steeply north. (75 degrees or more) Magnetic response is stronger and anomalies are not as well defined on the south ends of L 93E to L 95E. There appears to be considerably more magnetite/pyrrhotite in the vicinity of the west end of zone D.

Two NNE trending faults are shown. The longer of the two (marked with ??) is more tenuous north of zone C1. These are primarily interpreted from the character of the contoured mag & fraser filter results and not from distinct signatures in the magnetic or VLF data.

Magnetic response indicates the top of the ribbons to lie immediately under the surface layer at a depth of less than 10 to 12 meters. With more detailled magnetic readings, some refinement of the depth to the source could be made. VLF suggests a slighter depth to source (10 to 20 meters), perhaps because of weathering. Several of the second priority VLF-EM anomalies associated with zone B appear to come from somewhat deeper sources.

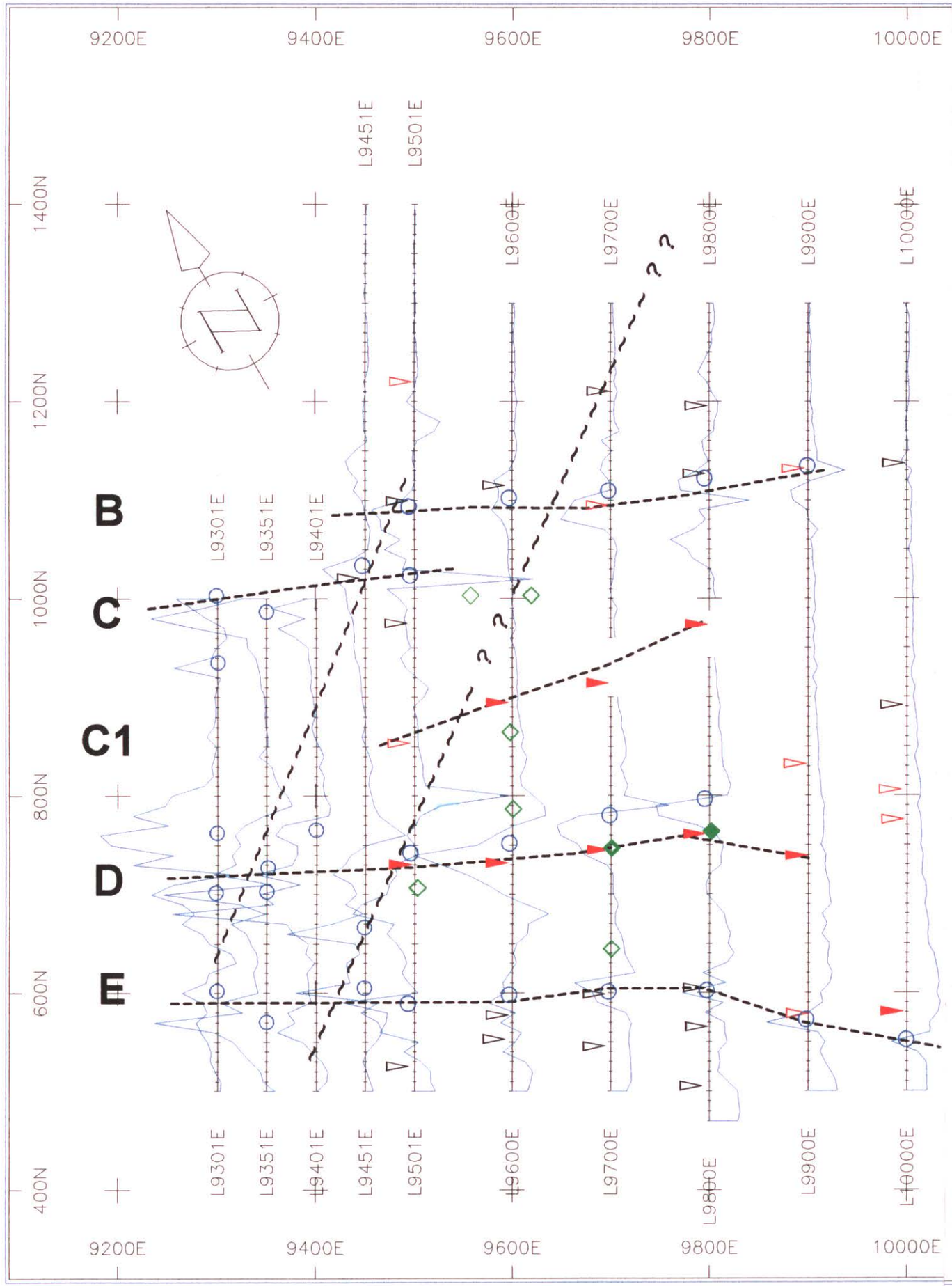
Conclusions and Recommendations

The data indicates that zone D is worthy of more attention. The close coincidence of SP, mag and VLF on L 97E and L 98E and to a lesser extent on L 95E suggests the anomaly to be pyrrhotite or a mix of magnetite and sulfides close to the surface. Dip appears to be steeply north. The magnetic locus is displaced about 20 meters to the north and may represent a zoning in the source or possibly differential weathering of the top of the body.

Zones B & E are also interesting; both exhibit lower magnitude response in both mag & VLF. Both zones may be nothing more than weakly mineralized fault contacts.

Although zone C1 shows a strong VLF response, it doesn't respond to SP or have any magnetic signature. It is highly likely that the VLF is due to saturated clays, or is a conductive shear zone.

J. M. Thornton, P.Geo. Dec. 1, 2000



Anom	Comment
B	weak continuous magnetic zone – vertical? vlf directly coincident with mag, depth indicated
C	dissimilar signatures on the two lines no vlf corellation
C1	vlf only – interpolated in area of no data no magnetics – shear zone?
D	good interline correlation strongest & most consistent anoms strong vlf – direct correspondence
E	weak but clear signature – east end dipping N? good vlf at east end – good mag corellation series of weak fault like vlf responses to the south of the linear

VLF EM anomalies — high — medium — low priority

SP Anomalies — >200 mv — >50 mv — <50 mv

Magnetic Source locations

Lines Ending in '1' have not been diurnally corrected, but have been levelled to other lines.

magc 57100 56700 nT

0 100 200 300 400

METERS

LAV PROPERTY

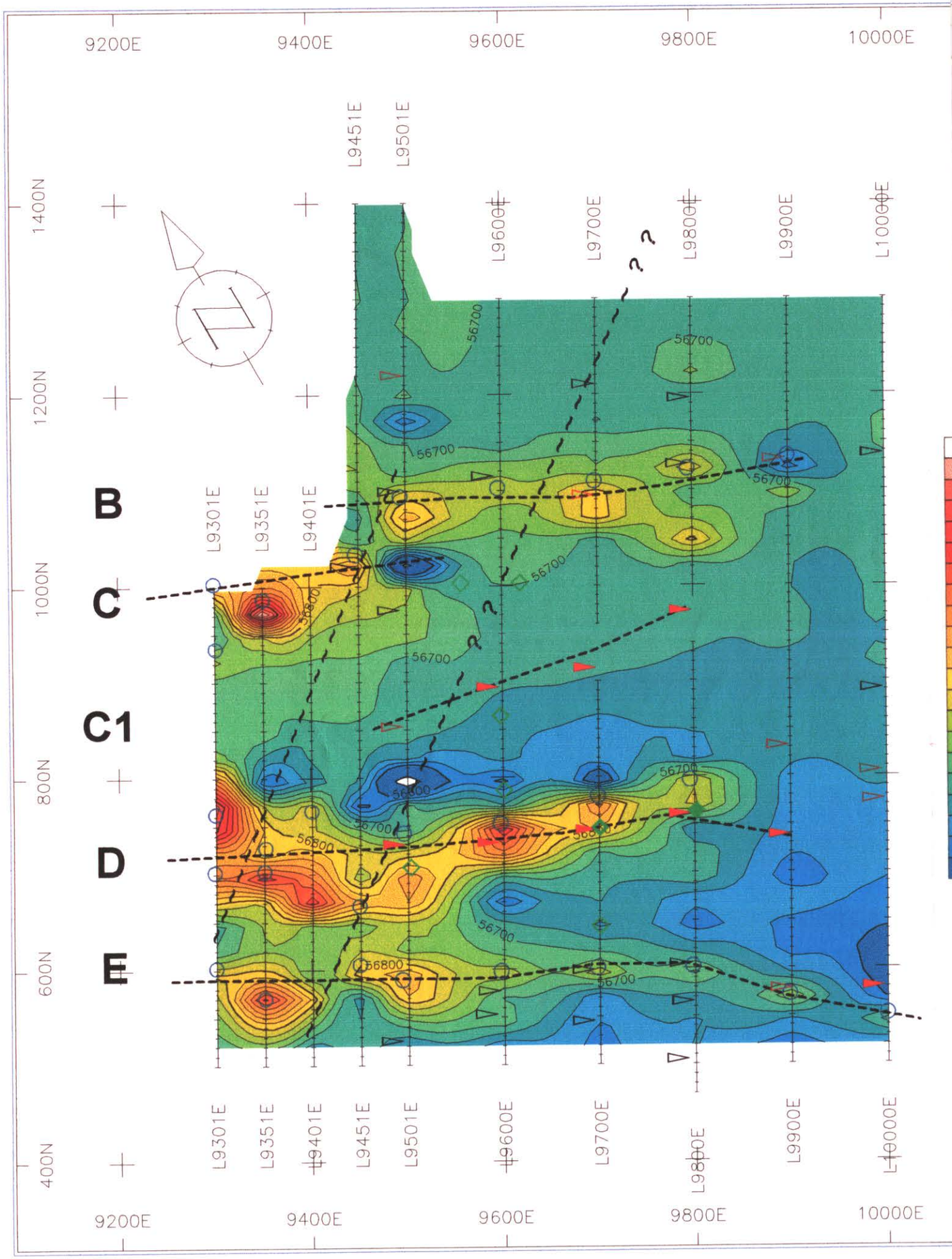
Lumby Area, BC

Ground Magnetometer Survey

Stacked Profiles

Drawn by: jmt	Date: 00.11.28	Figure:
jmt & associates		

00-38 pg 27



Anom	Comment
B	weak continuous magnetic zone – vertical? vlf directly coincident with mag, depth indicated
C	dissimilar signatures on the two lines no vlf corellation
C1	vlf only – interpolated in area of no data no magnetics – shear zone?
D	good interline correlation strongest & most consistent anoms strong vlf – direct correspondence
E	weak but clear signature – east end dipping N? good vlf at east end – good mag corellation series of weak fault like vlf responses to the south of the linear

VLF EM anomalies high medium low priority

SP Anomalies >200 mv >50 mv <50 mv

Magnetic Source locations

Lines Ending in '1' have not been diurnally corrected, but have been levelled to other lines.

0 100 200 300 400

METERS

LAV PROPERTY

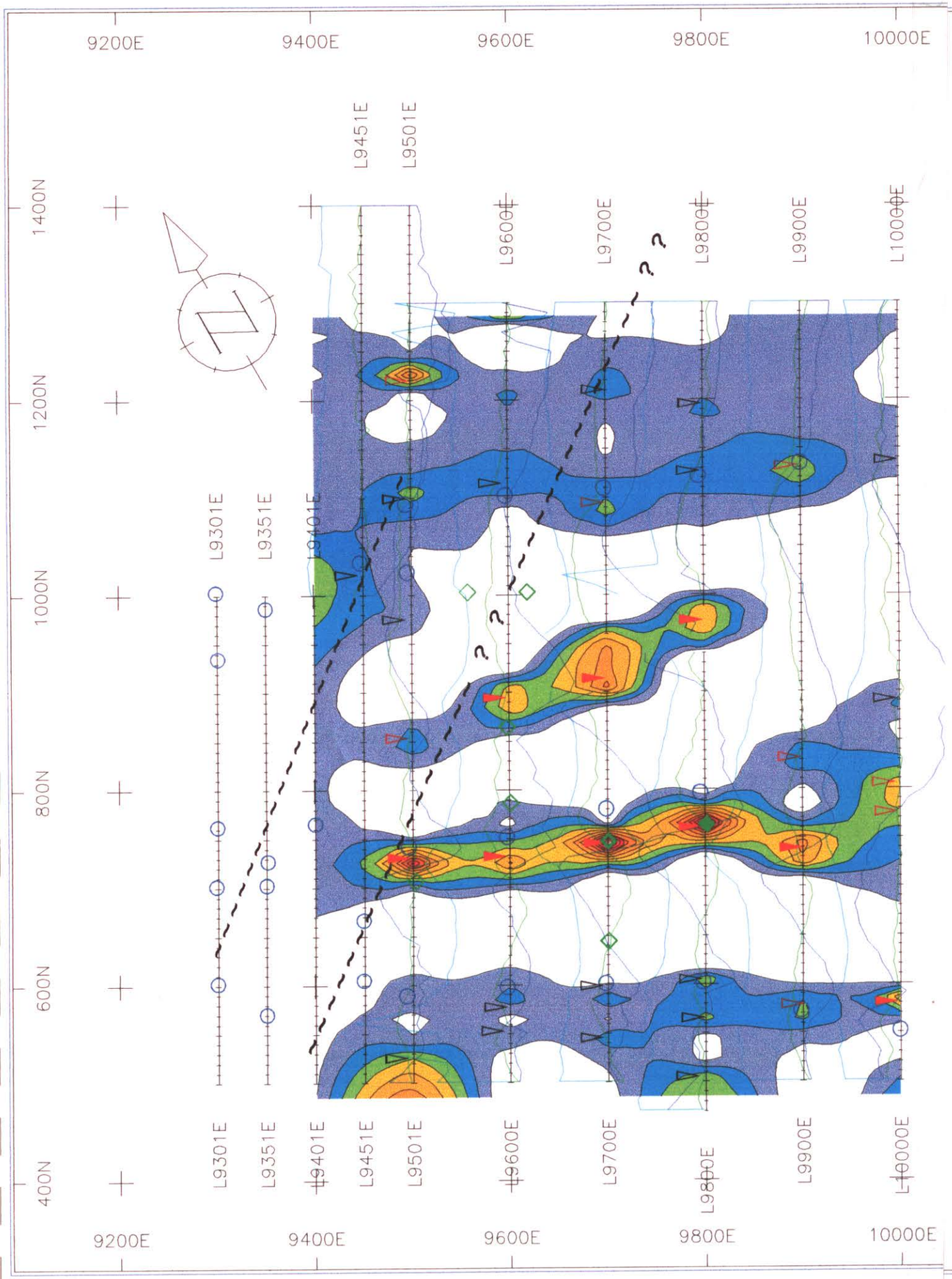
Lumby Area, BC

Ground Magnetometer Survey

Total Field Contour Map

Drawn by: jmt	Date: 00.11.28	Figure:
jmt & associates		

a-38 pg 28



Anom	Comment
B	weak continuous magnetic zone – vertical? vlf directly coincident with mag, depth indicated
C	dissimilar signatures on the two lines no vlf corellation
C1	vlf only – interpolated in area of no data no magnetics – shear zone?
D	good interline correlation strongest & most consistent anoms strong vlf – direct correspondence
E	weak but clear signature – east end dipping N? good vlf at east end – good mag corellation series of weak fault like vlf responses to the south of the linear

VLF EM anomalies high medium low priority

SP Anomalies >200 mv >50 mv <50 mv

Magnetic Source locations

Fraser Filter Colour Scale

0 5 10 15 20 25 30 35 40 45 50 55 60

Field	Linestyle	Scale		Units
IP		40	0	%
QD		40	0	%
FS		60	20	%

0 100 200 300 400

METERS

LAV PROPERTY

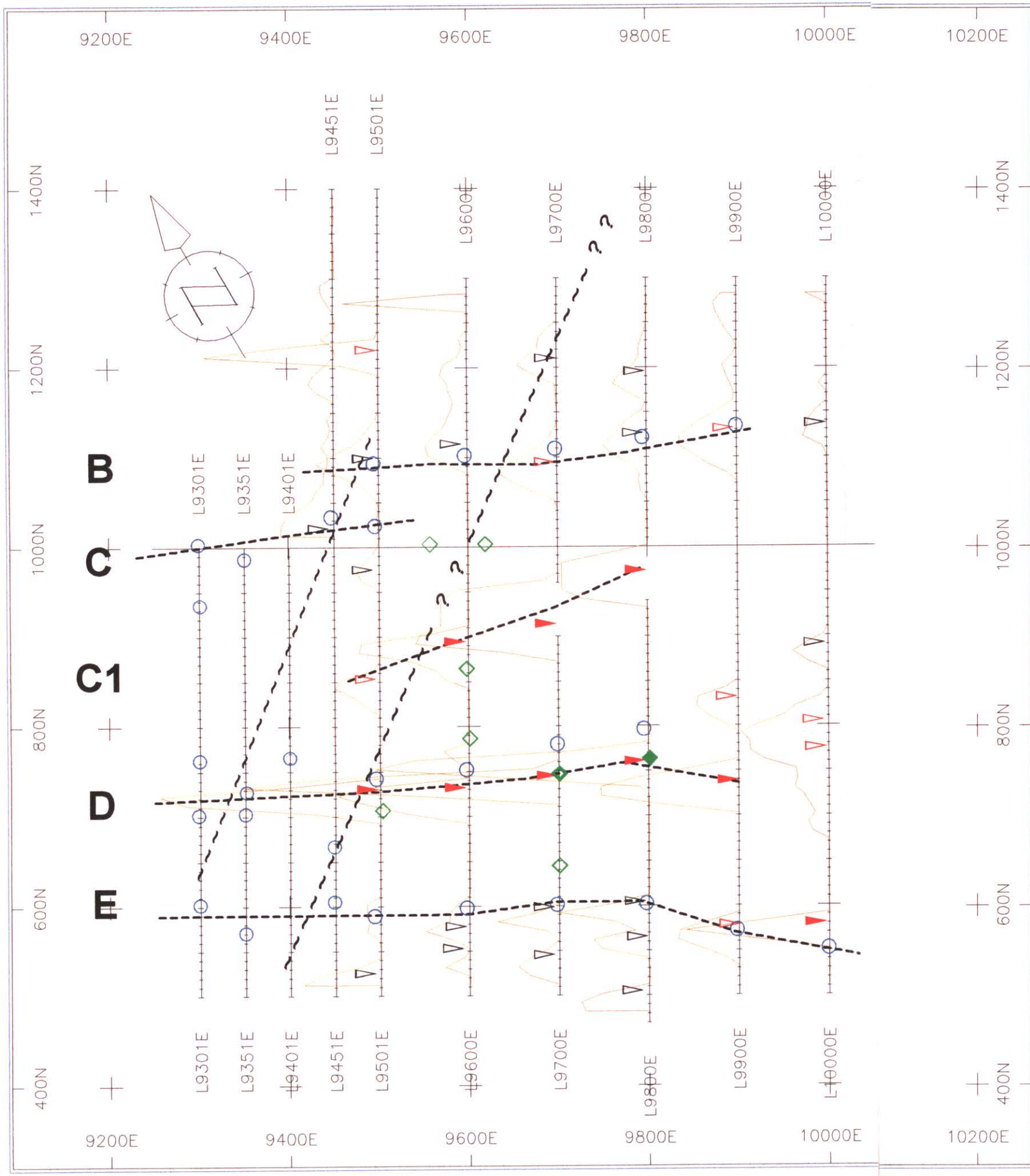
Lumby Area, BC

VLF EM Survey

Stacked Profiles (25.2 kHz)

Drawn by: jmt	Date: 00.11.28	Figure:
jmt & associates		

00-38 pg 29



Anom	Comment
B	weak continuous magnetic zone – vertical? vlf directly coincident with mag, depth indicated
C	dissimilar signatures on the two lines no vlf corellation
C1	vlf only – interpolated in area of no data no magnetics – shear zone?
D	good interline correlation strongest & most consistent anoms strong vlf – direct correspondence
E	weak but clear signature – east end dipping N? good vlf at east end – good mag corellation series of weak fault like vlf responses to the south of the linear

VLF EM anomalies	high	medium	low	priority
	2	4	3	
SP Anomalies	>200 mv	>50 mv	<50 mv	
	&	%	#	
Magnetic Source locations		+		

Field	Linestyle	Scale	Units
ff		20 0	%

0 100 200 300 400

METERS

LAV PROPERTY

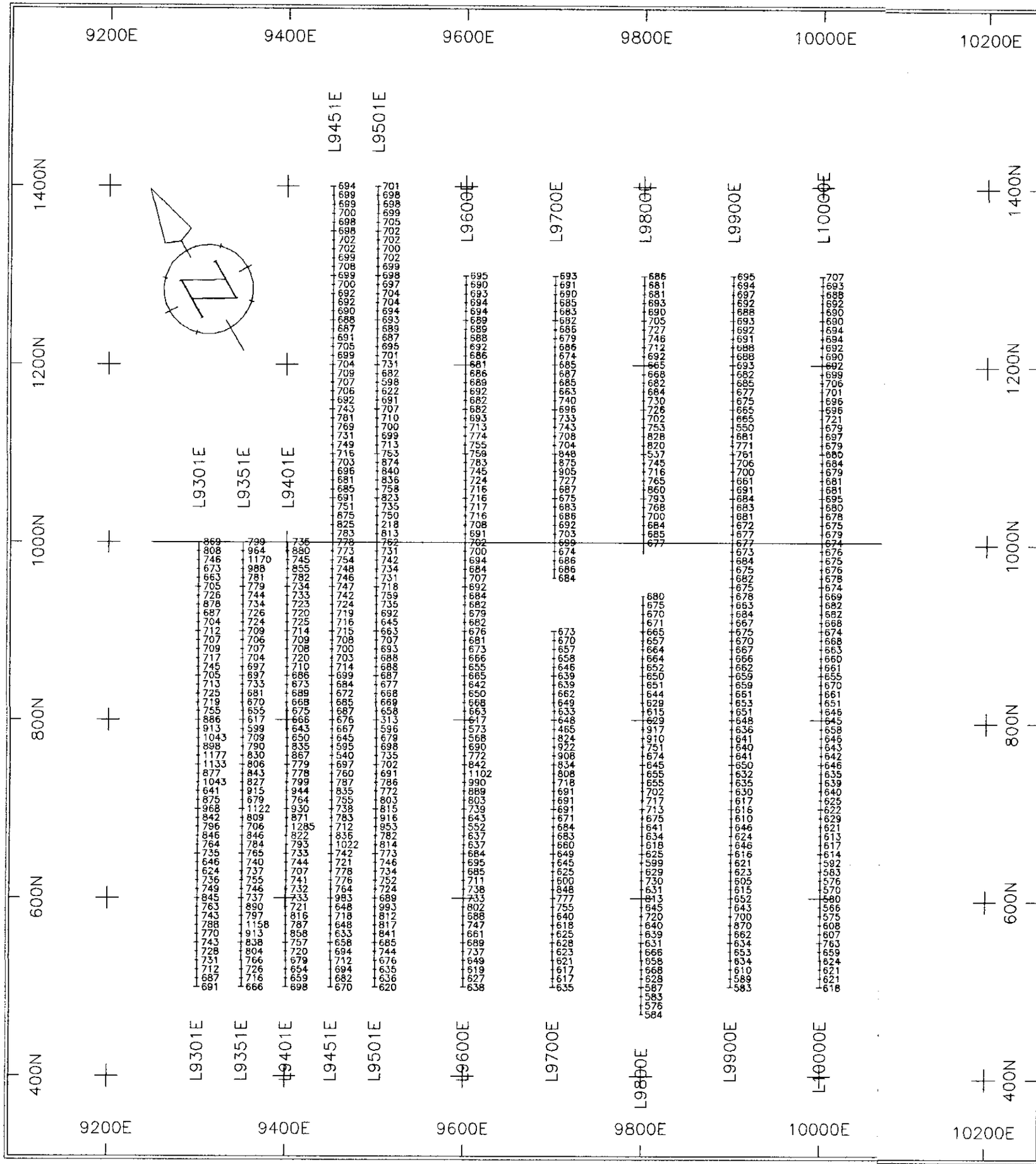
Lumby Area, BC

VLF–EM Survey

Fraser Filter Results

Drawn by: jmt	Date: 00.11.28	Figure:
jmt & associates		

00-38 PG 30



Lines ending in 1 have not had diurnal correction, but have been levelled to fit eastern lines.

Posted = Observed less 56000nT

Gaps in L 97E and L 98E are due to a small lake.

0 100 200 300 400

METERS

LAV PROPERTY

Lumby Area, BC

Ground Magnetometer Survey

Total Field Data Posting

Drawn by: jmt	Date: 00.11.28	Figure:
jmt & associates		

20-38 pg 31

Arrow Lakes - North Fork Area

SAMPLE DESCRIPTIONS

and

ANALYTICAL RESULTS

Arrow Lakes - North Fork Sample Locations and Descriptions

	NTS sheet	Northing (Nad 27)	Easting (Nad 27)	Description
Heavy Concentrate Silt Samples				
Technique: Fill 5 gallon pail with sandy and silty material + small rocks <~1". Run material through portable sluice box and collect all heavy material left in sluice.				
PGS-01	82E/9	5496400	410340	Fast running very steep creek. Lots of coarse sandy material in small pools, looks very locally derived.
PGS-02	82E/9	5497190	414100	Fast flowing, large bouldery creek, fairly gentle slope. Lots of syenite float in creek. Concentrate is reddish-brown.
PGS-03	82E/9	5495520	414330	Very fast flowing creek, coarse material only. Lots of syenite.
PGS-04	82E/9	5492400	413480	Fast flowing creek with lots of syenite. Collect sample from silty area with high organics on N side of creek - flat pool.
PGS-05	82E/9	5499450	405780	Jump Creek. Drive about 2 km up road, then hike down into creek. Creek is ~ 4 m wide, moderately flowing, gentle - mod slope, through cedar forest in steep valley. Mod outcrop (syenite). Lots of med sand-gravel in creek.
PGS-06	82E/9	5497325	405450	Creek which drains south side of hill with Mac pit and alteration zone. Hike up creek to get above alluvial fan, ~ 500 m. Creek is gentle slope, low flow, mixed rx (syenite+gdior+greenstone). Good silt/fine gravel developrment. Rare epithermal quartz vein float in creek.
PGS-07	82E/9	5495400	405235	Creek at ~ 31.5 km on Burrell Ck Rd. Hike ~ 100 m up creek from road. Thick blowdown. Large, mod steep, fast flowing creek with lots of sand-fine gravel. Rounded syenite + Nelson gd float in creek.

PGS-08	82E/9	5493165	405217	Creek ~ 30 km up Burrell Ck rd, just north of Tenderloin rd. Drains large aeromag area with abund pyroxenite. Mod fast flowing, mod steep creek. Lots of black sand in sample.
PGS-09	82E/9	5492040	404500	~ 29 km on Burrell Ck rd, just south of Tenderloin road. Large fast creek, mod steep. Mixed rounded boulder float, dom Nelson gd, lesser sy, rare pxnite. Lots of sand and fine gravel in creek. High black sand content in hmin sample.
PGS-10	82E/9	5490390	407860	~ 10 km up T-bone road in alpine logging slash. Small, mod flowing creek in area of biotite gabbro outcrop. Lots of black sandy material in creek.
PGS-11	82E/9	5490770	409490	up T-bone to ~11.5 km, then hike to headwaters of valley. Small mountain stream in broad valley - South fork of T-bone creek. Not a lot of sand/silt. Patchy snow ...
PGS-12	82E/9	5489730	406000	~5.5 or 6 km on T-bone road. Med, steep mountain creek. Sample ~50 m above road in pool with lots of silt. Syenite boulders in ck, px gabbro o/c near road.
PGS-13	82E/9	5490975	404050	T-bone creek at Burrell rd. Sample ~ 100 m above rd. Med sized, low-mod energy creek. Lots of silt and gravel + mixed smaller boulders (sy, gd, congl).
PGS-14	82E/9	5500090	408745	Hike down Jump Ck from near Worthington rd junction to take samples PGS-14 to 20 in follow-up to PGS-05. V. little water but lots of silt/fine gravel in creek bed. Lots of sy float in creek. O/c of fine grained syenite with carb alt'n.
PGS-15	82E/9	5499859	408886	Mod water flow. Lots of coarser sy float. Steeper creek bed than at -14, Not as much fine material.

PGS-16	82E/9	5499764	408862	Small creek ~ 100 m south of -15, approx parallel to -15, flows to W. More major drainage than -15. Coarse boulder creek, lots of gravel, not much fines. Had to screen most shovelfuls to get enough fines.
PGS-17	82E/9	5499360	408490	Main Jump Creek - mod flow, stepping creek with pools, small falls. Lots of sy float. Talus and o/c in tight valley. Sample from gravel bar in creek - lots of fine-med gravel.
PGS-18	82E/9	5499140	407380	Follow main creek down through very tight canyon/cliff/large talus slope in syenite. Sample just above junction, from N bank. Lots of roots with dirt and gravel mixed in.
PGS-19	82E/9	5499140	407380	~50 m up other branch of creek, flows into Jump Ck from N. Dry creek bed with coarse sy boulders. Possibly some in-situ material included in sample.
PGS-20	82E/9	5499430	406390	Jump creek branches out through flat cedar forest with steep sides to valley. Lots of sandy bars. Not much water in creek. ~300 m below washout (on road). Minor rusty areas in creek with minor quartz vein float.
PGS-21	82E/9	5496414	410342	resample PGS-01
PGS-22	82E/9	5493520	410290	~ 100 m south of Michaud Creek on Renata road. No water, not much gravel, very steep bouldery creek. Not very good material. Some humus/moss matt.
PGS-23	82E/9	5493600	410380	Michaud creek on Renata road. Dry creek.

Silt Samples

Technique: Fill kraft bag with silty/sandy material from creek. Conventional silt sample.

PGST-01	82E/9	5496400	410340	same site as PGS-01
PGST-02	82E/9	5497190	414100	same site as PGS-02
PGST-03	82E/9	5495520	414330	same site as PGS-03
PGST-04	82E/9	5492400	413480	same site as PGS-04
PGST-05	82E/9	5499450	405780	same site as PGS-05
PGST-06	82E/9	5497325	405450	same site as PGS-06
PGST-07	82E/9	5495400	405235	same site as PGS-07
PGST-08	82E/9	5493165	405217	same site as PGS-08
PGST-09	82E/9	5492040	404500	same site as PGS-09
PGST-10	82E/9	5490390	407860	same site as PGS-10
PGST-11	82E/9	5490770	409490	same site as PGS-11
PGST-12	82E/9	5489730	406000	same site as PGS-12
PGST-13	82E/9	5490975	404050	same site as PGS-13

Moss Matt Samples

Technique: Fill 1 10x13" plastic sample bag with live moss with trapped silt, from above water level. Collect moss from logs, rocks and stream back. Use mid stream moss where available.

PGM-01	82E/9	5496625	410250	same site as PGS-01, 21
PGM-02	82E/9	5493770	410250	same site as PGS-23
PGM-03	82E/9	5493740	410220	same site as PSS-22
PGM-04	82E/9	5494200	409870	same site as rock sample PG-14
PGM-05	82E/9	5496120	410390	
PGM-06	82E/9	5497670	410800	
PGM-07	82E/9	5496350	410120	
PGM-08	82E/9	5497190	414100	same site as PGS-02 (North Cinnamon Ck)
PGM-09	82E/9	5495520	414330	same site as PGS-03
PGM-10	82E/9	5492400	413480	same site as PGS-04 (Michaud Ck on lower rd)
PGM-11	82E/9	5488915	414320	by 'cabin' on lower road. Not much moss. Large bouldery drainage with little water.

Rock Samples

PG-01	82E/9	5487662	416594	black resistant, chromite rich band in green pyroxenite. Pyroxenite is cut by syenite. Sample from just below overlying syenite. ~30% syenite veins, 10-15% dark chromite rich bands.
PG-02	82E/9	5487662	416594	~ 25 m south of PG-01, ~ 2m below contact of syenite. Area of predominant dark phase, cut by syenite veins to 10 cm wide (make up 25% of rock). Brecciated texture. 2-5% pyrite, minor chalcopyrite.

PG-03	82E/9	5487536	416606	~75 m south of PG-02. Very rusty sand cliff. Till cobbles are Fe stained on the surface. Sample of rusty sand-silt.
PG-04	82E/9	5497650	405670	Select grab from blast trench area at Mac showing. Strong malachite/azurite stained silicified intrusive.
PG-05	82E/9	5497800	406200	Vuggy quartz veining - epithermal + silica flooding in alt'd intrusive.
PG-06	82E/9	5493740	405360	"Headlight zone" - rusty black boulders/subcrop along Burrell rd. Rusty spine trends ~ parallel to road ~ 000-010 degrees. Strongly magnetic, med-fine grained pyroxenite with minor diss py/po and tr cpy. Minor quartz patches and veinlets.
PG-07	82E/9	5490250	405990	White dirty looking epithermal quartz veins, large vugs, in extremely coarse biotite gabbro (avg. 0.5 - 1 cm grain size). Veins in rusty fractures and boulders.
PG-08	82E/9	5500060	408370	Head of Jump Creek. Rusty argillic alteration zone with epithermal looking white vuggy quartz veinlets in gdior intrusive. Numerous similar looking zones in the area. This zone is ~ 1 - 2 m wide.
PG-09	82E/9	5496800	410410	Large epithermal quartz vein, massive silica + vuggy qtz veins, up to 0.5 - 1 m wide (poorly exposed) with bx frags of clay altered intrusive. Hosted in brown alt'd fine grained intrusive with strong pervasive clay alteration.
PG-10	82E/9	5490070	406500	~ 9 km up T-bone @ Spur 105 junction. Very coarse grained, non-magnetic px (+bio) gabbro.
PG-11	82E/9	5489710	405925	On road near hmin sample PGS-12. Very rusty zone in road cut. Siliceous breccia with trace py. Multistage silicification, qtz +cc veining.

PG-12	82E/9	5498070	402780	Tenderloin Mountain - Pinto Creek "crack" area - lots and lots of unaltered Nelson gdior, one old pit (no minz'n). Large quartz vein by road up to Pinto Creek "crack". Bull qtz vein, trends 320/90. ~ 2 m wide, no minz'n. Massive white qtz. Locally has mega crysts of Kspar, up to 15 cm long. Can follow vein float for ~ 50 m on strike.
PG-13	82E/9	5493250	410360	Along Renata road, caramel-tan coloured silicified zone in intrusive. Zone ~ 3 m wide, trends 280/60 S. Pervasive silicification, weak bx texture, epithermal looking, clay alt'n in intrusive on edges of silic'd zone.
PG-14	82E/9	5493990	409960	Near headwaters of Michaud Creek. Rusty clay alt'd shear in intrusive. ~ 1.5 m wide, trends 310/90. Minor qtz veinlets (epith looking), minor patchy fine py.
PG-15	82E/9	5493444	409606	Samples PG-15-19 "Holy Zone". ~ 75 m long zone in ditch. Pale grey, very coarse grained alkalic intrusive with coarse euhedral plag (may be twinned). K spar rich gmass with 5% coarse biotite. Looks to be at intersection of 2 regional structures. See silic'n, veining in intrusive - epithermal looking. Locally vuggy qutz veinlts, minor massive py-qtz vns, box working silicn't. Fine diss py in silica flood zones, also coarser diss py. PG-15 is float from SW end of zone, White silic'd intrusive with 4 cm grey py-silica flood zone containing small bx frags of intrusive, 2% coarse py + 5% fine py with silica in gmass.
PG-16	82E/9	5493444	409606	Float from SW end of zone. White silic'd intrusive cut by network and irreg zones of grey silica (as in -15) but numerous small vnlts and zones. 5% coarse py, partially leached to give boxwork texture.

PG-17	82E/9	5493444	409606	Float from 'dump' on S side of ditch at SW end of zone. Cherty fine grained pale grey silic'n with 5% white fine bx frags, vuggy cavities with terminated qtz xtals. Tr fine py. More typical epithermal looking silicification.
PG-18	82E/9	5493444	409606	In place at NE end of zone. 3-4 cm wide vn - qtz vn with up to 50% massive euhedral py. Vuggy. Trends 020/80 W.
PG-19	82E/9	5493444	409606	In place at NE end on zone, in ditch. White silic'd intrusive, hard but still looks intrusive (not caramelly epithermal silic'n). Cut by 2-4 mm qtz-py vnlts and with irreg patches of fng py + silica to 1 cm across. 10-15% py total. Py-qtz vnlts are ~ parallel.

10-Jul-00

ECO-TECH LABORATORIES LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AK 2000-113

LINDA CARON
BOX 2493
GRAND FORKS, BC
V0H 1H0

ATTENTION: LINDA CARON

No. of samples received: 13
Sample type: Heavy Silt
Project #: None Given
Shipment #: None Given
Samples submitted by: Linda Caron

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	PGS #1	<0.2	0.89	<5	175	30	0.60	1	18	180	17	8.29	80	0.33	1121	<1	0.05	22	1420	20	<5	<20	66	0.23	<10	209	<10	13	81
2	PGS #2	<0.2	0.81	<5	155	15	0.42	<1	11	114	11	4.58	80	0.28	627	<1	0.04	13	980	22	<5	<20	56	0.14	<10	99	<10	16	75
3	PGS #3	<0.2	0.70	<5	120	10	0.32	<1	10	191	12	4.77	90	0.19	612	5	0.04	15	810	26	<5	<20	34	0.13	<10	85	<10	19	76
4	PGS #4	<0.2	0.71	<5	120	15	0.34	<1	10	120	10	5.51	100	0.19	591	3	0.04	11	880	24	<5	<20	37	0.12	<10	101	<10	18	90
5	PGS #5	<0.2	0.66	<5	130	30	0.35	<1	13	222	15	6.80	50	0.22	573	3	0.04	18	740	14	<5	<20	39	0.15	<10	154	<10	14	55
6	PGS #6	<0.2	0.70	<5	160	20	0.49	1	17	229	12	8.91	60	0.29	592	3	0.04	19	1230	20	<5	<20	56	0.16	<10	240	<10	13	58
7	PGS #7	<0.2	0.57	<5	110	15	0.34	<1	11	118	8	6.79	110	0.17	713	3	0.04	9	790	18	<5	<20	29	0.14	<10	120	<10	17	57
8	PGS #8	<0.2	0.63	<5	150	20	0.80	<1	18	233	12	8.38	100	0.48	553	<1	0.04	27	2270	12	<5	<20	52	0.20	<10	211	<10	14	51
9	PGS #9	<0.2	0.64	<5	205	55	1.04	2	31	273	16	>10	90	0.46	652	8	0.05	25	2640	8	<5	<20	89	0.22	<10	614	<10	<1	55
10	PGS #10	<0.2	1.08	<5	240	50	1.57	1	35	351	19	>10	60	1.13	710	3	0.12	42	3260	<2	<5	<20	143	0.25	<10	578	<10	<1	45
11	PGS #11	<0.2	1.23	<5	105	10	0.71	<1	13	168	11	3.66	80	0.60	466	<1	0.07	24	1210	14	<5	<20	66	0.19	<10	97	<10	29	66
12	PGS #12	<0.2	1.03	<5	265	25	1.30	<1	17	211	17	4.37	50	1.13	399	<1	0.10	37	2270	10	<5	<20	114	0.22	<10	134	<10	24	40
13	PGS #13	<0.2	0.94	<5	250	35	1.37	<1	22	249	19	8.28	60	1.01	430	<1	0.09	38	2710	6	<5	<20	137	0.22	<10	272	<10	17	44
QC DATA:																													
Repeat:																													
1	PGS #1	<0.2	0.87	<5	170	25	0.60	<1	18	182	16	8.37	80	0.33	1120	<1	0.05	23	1460	22	<5	<20	65	0.23	<10	209	<10	13	75
10	PGS #10	<0.2	1.01	<5	235	55	1.48	<1	34	333	18	>10	70	1.05	664	2	0.11	40	3130	4	<5	<20	134	0.24	<10	545	<10	3	44
Standard:																													
GEO'00		1.2	1.87	50	165	10	1.62	<1	19	64	89	3.74	<10	0.96	681	<1	0.02	27	770	20	10	<20	68	0.12	<10	84	<10	15	70

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

df/114
XLS/00
Fax: 250-442-0256

31-Aug-00

ECO-TECH LABORATORIES LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AK 2000-235

LINDA CARON, M.Sc., P. Eng.
Consulting Geologist
Box 2493
GRAND FORKS, BC
V0H 1H0

ATTENTION: Linda Caron, M.Sc., P. Eng.

No. of samples received: 10
Sample type: Heavey Silt
Project #: None Given
Shipment #: None Given
Samples submitted by: Linda Caron, M.Sc., P. Eng.

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	PGS #14	<5	<0.2	1.15	<5	200	<5	0.33	<1	6	148	11	2.36	90	0.28	325	2	0.04	12	680	16	<5	<20	60	0.05	<10	48	<10	30	52
2	PGS #15	5	<0.2	1.34	<5	255	5	0.41	<1	7	183	15	2.95	140	0.30	634	4	0.05	14	690	24	<5	<20	83	0.07	<10	55	<10	37	57
3	PGS #16	5	<0.2	1.08	<5	225	10	0.36	<1	9	149	11	4.39	90	0.29	775	4	0.04	15	710	22	<5	<20	67	0.09	<10	84	<10	19	73
4	PGS #17	80	<0.2	0.82	<5	175	20	0.35	<1	15	277	12	8.37	60	0.26	828	4	0.06	22	720	18	<5	<20	59	0.18	<10	180	<10	10	72
5	PGS #18	5	<0.2	0.61	<5	165	10	0.30	<1	9	177	12	3.85	70	0.29	562	4	0.04	14	610	18	<5	<20	51	0.13	<10	77	<10	17	80
6	PGS #19	<5	<0.2	0.89	<5	195	10	0.35	<1	9	160	11	4.44	50	0.26	623	4	0.03	14	810	18	<5	<20	54	0.07	<10	91	<10	16	57
7	PGS #20	<5	<0.2	0.51	<5	105	10	0.25	<1	7	151	7	3.56	30	0.18	333	4	0.03	10	560	10	<5	<20	32	0.07	<10	72	<10	9	37
8	PGS #21	<5	<0.2	0.68	<5	130	15	0.48	<1	15	118	11	7.67	60	0.23	867	3	0.04	12	1410	20	<5	<20	51	0.17	<10	189	<10	6	63
9	PGS #22	<5	<0.2	0.79	<5	110	5	0.22	<1	6	245	10	2.70	60	0.14	498	9	0.06	10	450	20	<5	<20	38	0.05	<10	43	<10	11	89
10	PGS #23	5	<0.2	0.63	<5	100	10	0.27	1	11	117	10	6.25	80	0.18	643	6	0.03	10	800	22	<5	<20	26	0.10	<10	106	<10	9	64
QC DATA:																														
Repeat:																														
1	PGS #14	5	<0.2	1.20	<5	210	5	0.34	<1	6	158	10	2.53	90	0.29	337	3	0.04	13	730	20	<5	<20	60	0.05	<10	51	<10	31	56
Standard:																														
GEO'00		115	1.0	1.69	60	155	10	1.54	<1	19	57	89	3.61	<10	0.90	668	<1	0.02	24	710	18	10	<20	61	0.11	<10	75	<10	10	73

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

df/225
XLS/00

Eco-Tech
LABORATORIES LTD.

ASSAYING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING

10041 Dallas Drive, Kamloops, B.C. V2C 6T4
Phone (250) 573-5700 Fax (250) 573-4557
email: ecotech@direct.ca

CERTIFICATE OF ANALYSIS AK 2000-113

LINDA CARON
BOX 2493
GRAND FORKS, BC
V0H 1H0

11-Jul-00

ATTENTION: LINDA CARON

No. of samples received: 13
Sample type: Heavy Silt
Project #: None Given
Shipment #: None Given
Samples submitted by: Linda Caron

ET #.	Tag #	Au (ppb)	Pd (ppb)	Pt (ppb)
1	PGS #1	2190	<5	5
2	PGS #2	755	<5	<5
3	PGS #3	790	<5	<5
4	PGS #4	100	<5	<5
5	PGS #5	1675	<5	<5
6	PGS #6	115	<5	<5
7	PGS #7	5	<5	<5
8	PGS #8	100	<5	<5
9	PGS #9	15	<5	<5
10	PGS #10	10	<5	<5
11	PGS #11	10	<5	<5
12	PGS #12	5	<5	<5
13	PGS #13	5	<5	<5

QC DATA:

Repeat:

R-1	PGS #1	1385	<5	<5

Standard:

GEO'00	120	-	-

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/00
Fax: 250-442-0256

10-Jul-00

ECO-TECH LABORATORIES LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AK 2000-112

LINDA CARON
BOX 2493
GRAND FORKS, BC
V0H 1H0

ATTENTION: LINDA CARON

No. of samples received: 13
Sample type: Silt
Project #: None Given
Shipment #: None Given
Samples submitted by: Linda Caron

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	PGST #1	<0.2	1.00	<5	165	5	0.59	1	8	23	11	2.72	100	0.28	1301	2	0.01	6	1860	26	<5	<20	50	0.05	<10	50	<10	22	72
2	PGST #2	<0.2	1.14	5	255	<5	0.59	<1	6	20	12	2.38	150	0.29	852	3	<0.01	7	1420	36	<5	<20	81	0.05	<10	40	<10	37	91
3	PGST #3	<0.2	0.42	<5	75	<5	0.17	<1	4	9	8	1.97	50	0.14	384	2	<0.01	4	580	22	<5	<20	12	0.03	<10	28	<10	12	63
4	PGST #4	<0.2	1.02	5	160	<5	0.50	1	8	31	13	3.28	170	0.27	827	3	<0.01	9	1320	40	<5	<20	51	0.05	<10	57	<10	43	103
5	PGST #5	<0.2	1.15	<5	240	<5	0.49	<1	5	21	11	1.84	130	0.29	532	1	<0.01	7	930	22	<5	<20	83	0.03	<10	31	<10	49	58
6	PGST #6	<0.2	1.12	<5	265	5	0.62	<1	7	38	16	2.78	130	0.39	594	1	<0.01	11	1490	36	<5	<20	105	0.05	<10	53	<10	56	67
7	PGST #7	<0.2	0.60	<5	105	<5	0.36	1	6	23	6	3.55	100	0.18	559	3	<0.01	5	1050	20	<5	<20	28	0.04	<10	59	<10	21	56
8	PGST #8	<0.2	0.71	<5	120	15	1.14	<1	13	127	12	5.48	100	0.41	401	<1	0.01	22	4660	16	<5	<20	63	0.10	<10	136	<10	21	54
9	PGST #9	<0.2	0.80	<5	160	20	1.09	<1	13	86	14	5.38	90	0.41	444	<1	0.01	15	4260	18	<5	<20	75	0.11	<10	147	<10	17	51
10	PGST #10	<0.2	1.42	5	175	5	0.74	<1	16	92	28	2.33	60	0.59	408	<1	0.02	32	2940	18	<5	<20	64	0.13	<10	60	<10	20	39
11	PGST #11	<0.2	2.15	10	145	<5	0.58	<1	10	30	12	1.82	190	0.20	2732	6	0.01	9	1220	32	<5	<20	102	0.04	<10	28	<10	45	63
12	PGST #12	<0.2	0.83	<5	195	5	0.99	<1	9	81	16	2.20	60	0.45	423	<1	0.01	22	3790	12	<5	<20	82	0.09	<10	56	<10	21	33
13	PGST #13	<0.2	1.30	<5	405	15	1.35	<1	21	157	31	5.79	70	0.99	426	<1	0.02	48	4950	12	<5	<20	119	0.19	<10	167	<10	22	57
QC DATA:																													
Resplit:																													
10	PGST #10	<0.2	1.51	<5	185	10	0.69	<1	17	93	29	2.30	60	0.62	433	<1	0.02	34	2730	18	<5	<20	62	0.13	<10	59	<10	20	40
Repeat:																													
1	PGST #1	<0.2	1.04	<5	170	<5	0.57	<1	8	22	12	2.62	100	0.29	1400	1	0.01	6	1690	28	<5	<20	48	0.06	<10	47	<10	20	76
Standard:																													
GEO'00		0.6	1.74	50	150	10	1.57	<1	19	57	85	3.55	<10	0.92	674	<1	0.02	24	740	20	10	<20	59	0.11	<10	75	<10	12	68

df/112
XLS/00
Fax: 250-442-0256

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

Eco-Tech
LABORATORIES LTD.

ASSAYING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING

10041 Dallas Drive, Kamloops, B.C. V2C 6T4
Phone (250) 573-5700 Fax (250) 573-4557
email: ecotech@direct.ca

CERTIFICATE OF ANALYSIS AK 2000-112

LINDA CARON
BOX 2493
GRAND FORKS, BC
V0H 1H0

12-Jul-00

ATTENTION: LINDA CARON

No. of samples received: 13
Sample type: Silt
Project #: None Given
Shipment #: None Given
Samples submitted by: Linda Caron

ET #.	Tag #	Au (ppb)	Pd (ppb)	Pt (ppb)
1	PGST #1	5	<5	<5
2	PGST #2	5	<5	<5
3	PGST #3	5	<5	<5
4	PGST #4	5	<5	<5
5	PGST #5	5	<5	<5
6	PGST #6	5	<5	<5
7	PGST #7	<5	<5	<5
8	PGST #8	<5	<5	<5
9	PGST #9	<5	<5	<5
10	PGST #10	<5	<5	<5
11	PGST #11	<5	<5	<5
12	PGST #12	<5	<5	<5
13	PGST #13	<5	<5	<5
QC DATA:				
Repeat:				
R-1	PGST #1	<5	<5	<5
Standard:				
GEO'00		120	-	-

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/00
Fax: 250-442-0256

6-Jul-00

ECO-TECH LABORATORIES LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AK 2000-111

LINDA CARON
BOX 2493
GRAND FORKS, BC
V0H 1H0

ATTENTION: LINDA CARON

No. of samples received: 12
Sample type: Rock
Project #: None Given
Shipment #: None Given
Samples submitted by: Linda Caron

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	PG #1	<0.2	0.77	<5	185	20	1.34	<1	34	198	179	9.77	<10	1.10	437	<1	0.04	42	2140	<2	<5	<20	65	0.20	<10	368	<10	<1	54
2	PG #2	<0.2	0.48	<5	85	<5	2.30	1	36	24	1106	>10	<10	0.54	555	5	0.06	7	5320	<2	<5	<20	169	0.11	<10	460	<10	<1	69
3	PG #3	<0.2	0.41	<5	60	<5	0.34	<1	6	51	14	2.76	50	0.21	257	<1	0.03	6	1020	12	<5	<20	27	0.06	<10	42	<10	8	35
4	PG #4	5.0	0.55	<5	30	<5	0.04	231	19	28	3314	1.38	<10	0.20	725	<1	0.02	2	100	>10000	<5	<20	99	<0.01	<10	13	<10	<1	>10000
5	PG #5	<0.2	0.16	<5	725	<5	0.09	<1	<1	84	11	0.72	20	<0.01	224	5	<0.01	3	300	122	<5	<20	22	<0.01	<10	2	<10	2	103
6	PG #6	<0.2	1.06	<5	80	5	5.78	1	20	51	46	6.25	60	0.84	2812	5	<0.01	7	2570	96	<5	<20	650	0.02	<10	119	<10	45	173
7	PG #7	1.4	0.30	10	105	<5	0.66	<1	4	140	13	1.29	<10	0.34	630	26	<0.01	18	310	20	<5	<20	16	<0.01	<10	32	<10	<1	27
8	PG #8	3.8	0.12	<5	15	<5	0.04	<1	<1	133	5	0.66	<10	<0.01	71	16	<0.01	5	60	20	<5	<20	4	<0.01	<10	3	<10	<1	16
9	PG #9	<0.2	0.05	<5	125	<5	0.04	<1	3	115	11	1.01	<10	<0.01	479	4	<0.01	6	170	42	<5	<20	<1	<0.01	<10	8	<10	<1	29
10	PG #10	<0.2	1.77	<5	775	10	0.82	<1	29	539	41	2.58	30	2.88	252	<1	0.07	196	2300	18	25	<20	39	0.30	<10	67	<10	11	49
11	PG #11	<0.2	0.25	<5	115	<5	5.54	<1	13	133	10	2.79	20	2.32	898	7	<0.01	39	1050	6	20	<20	147	<0.01	<10	32	<10	9	37
12	PG #12	<0.2	0.01	<5	<5	<5	0.03	<1	<1	144	2	0.19	<10	0.01	29	3	<0.01	4	10	<2	<5	<20	<1	<0.01	<10	<1	<10	<1	7
QC DATA:																													
Resplit:																													
1	PG #1	<0.2	0.82	<5	185	20	1.34	<1	36	212	158	>10	<10	1.17	451	<1	0.04	46	2080	4	<5	<20	56	0.21	<10	378	<10	<1	58
Repeat:																													
1	PG #1	<0.2	0.77	<5	185	15	1.33	<1	33	195	178	9.45	<10	1.08	434	<1	0.04	43	2160	4	<5	<20	62	0.20	<10	354	<10	<1	56
10	PG #10	<0.2	1.81	<5	785	15	0.83	<1	29	550	41	2.60	30	2.95	257	<1	0.08	204	2280	20	20	<20	39	0.29	<10	67	<10	13	48
Standard:																													
GEO'00		1.0	1.68	60	150	<5	1.56	<1	19	57	87	3.64	<10	0.90	677	<1	0.01	27	750	24	5	<20	51	0.10	<10	75	<10	8	77

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

df/111
XLS/00
Fax: 250-442-0256

24-Aug-00

ICP CERTIFICATE OF ANALYSIS AK 2000-234

O-TECH LABORATORIES LTD.
041 Dallas Drive
MLOOPS, B.C.
C 6T4

one: 250-573-5700
x : 250-573-4557

LINDA CARON, M.Sc., P. Eng.
Consulting Geologist
Box 2493
GRAND FORKS, BC
V0H 1H0

ATTENTION: Linda Caron, M.Sc., P. Eng.

No. of samples received: 7
Sample type: Rock
Project #: None Given
Shipment #: None Given
Samples submitted by: L. Caron, M.Sc., P.Eng.

alues in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	PG#13	<5	<0.2	0.34	<5	45	<5	0.15	<1	2	145	8	1.18	30	<0.01	252	7	<0.01	4	570	28	<5	<20	24	<0.01	<10	14	<10	12	22
2	PG#14	5	0.6	0.46	<5	40	<5	0.10	<1	3	106	8	2.36	100	0.04	783	18	0.02	4	130	68	<5	<20	20	<0.01	<10	5	<10	20	69
3	PG#15	15	15.6	0.30	<5	45	<5	0.04	9	3	133	1133	1.38	50	0.03	2835	1451	0.02	3	130	2146	<5	<20	8	<0.01	<10	4	<10	<1	2159
4	PG#16	55	<2?	0.??	<5	30	<5	0.05	<1	2	131	603	2.29	20	<0.01	504	2362	0.02	3	140	1596	<5	<20	14	<0.01	<10	4	<10	<1	248
5	PG#17	50	19.2	0.22	<5	15	<5	0.04	<1	2	167	325	1.55	10	<0.01	374	1000	0.03		60	220	<5	<20	5	<0.01	<10	2	<10	<1	72
6	PG#18	45	10.4	0.32	<5	70	65	0.23	1	43	88	61	>10	<10	<0.01	278	411	0.04	<1	<10	636	<5	<20	10	<0.01	30	9	<10	<1	281
7	PG#19	5	4.2	0.14	15	20	5	<0.01	2	5	56	99	3.61	<10	<0.01	136	157	0.04	<1	320	118	<5	<20	3	<0.01	<10	5	<10	<1	681
QC DATA:																														
Resplit:																														
1	PG#13	<5	<0.2	0.36	<5	45	<5	0.16	<1	3	140	9	1.21	30	<0.01	269	10	<0.01	6	580	32	<5	<20	22	<0.01	<10	14	<10	12	25
Repeat:																														
2	PG#14	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

df/225
XLS/00

Eco-Tech
LABORATORIES LTD.

ASSAYING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING

10041 Dallas Drive, Kamloops, B.C. V2C 6T4
Phone (250) 573-5700 Fax (250) 573-4557
email: ecotech@direct.ca

CERTIFICATE OF ASSAY AK 2000-111

LINDA CARON
BOX 2493
GRAND FORKS, BC
V0H 1H0

10-Jul-00

ATTENTION: LINDA CARON

No. of samples received: 12
Sample type: Rock
Project #: None Given
Shipment #: None Given
Samples submitted by: Linda Caron

ET #.	Tag #	Pb (%)	Zn (%)
1	PG #1	-	-
2	PG #2	-	-
3	PG #3	-	-
4	PG #4	6.00	4.10
5	PG #5	-	-
6	PG #6	-	-
7	PG #7	-	-
8	PG #8	-	-
9	PG #9	-	-
10	PG #10	-	-
11	PG #11	-	-
12	PG #12	-	-

QC DATA:

Repeat:			
4	PG #4	6.00	4.15
Standard:			
CCU1a		-	2.88
Mp1A		4.31	-

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/00

ECO-TECH LABORATORIES LTD.

ASSAYING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING

10041 Dallas Drive, Kamloops, B.C. V2C 6T4
Phone (250) 573-5700 Fax (250) 573-4557
email: ecotech@direct.ca

CERTIFICATE OF ASSAY AK 2000-234

LINDA CARON, M.Sc., P. Eng.
Consulting Geologist
Box 2493
GRAND FORKS, BC
V0H 1H0

23-Aug-00

ATTENTION: *Linda Caron, M.Sc., P. Eng.*

No. of samples received: 7
Sample type: Rock
Project #: None Given
Shipment #: None Given
Samples submitted by: L. Caron, M.Sc., P.Eng.

ET #.	Tag #	Ag (g/t)	Ag (oz/t)
4	PG#16	61.8	1.80

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/00

Eco-Tech LABORATORIES LTD.

ASSAYING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING

10041 Dallas Drive, Kamloops, B.C. V2C 6T4
Phone (250) 573-5700 Fax (250) 573-4557
email: ecotech@direct.ca

CERTIFICATE OF ANALYSIS AK 2000-111

LINDA CARON
BOX 2493
GRAND FORKS, BC
V0H 1H0

11-Jul-00

ATTENTION: LINDA CARON

No. of samples received: 12
Sample type: Rock
Project #: None Given
Shipment #: None Given
Samples submitted by: Linda Caron

ET #.	Tag #	Au (ppb)	Pd (ppb)	Pt (ppb)
1	PG #1	5	20	15
2	PG #2	5	<5	<5
3	PG #3	5	<5	<5
4	PG #4	10	<5	<5
5	PG #5	5	-	-
6	PG #6	5	<5	<5
7	PG #7	15	<5	<5
8	PG #8	25	-	-
9	PG #9	15	-	-
10	PG #10	5	<5	<5
11	PG #11	10	<5	<5
12	PG #12	5	-	-
QC DATA:				
Repeat:				
1	PG #1	15	30	20
Resplit:				
1	PG #1	5	30	15
Standard:				
GEO STD		120	<5	-

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/00
Fax: 250-442-0256

Eco-Tech
LABORATORIES LTD.

ASSAYING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING

10041 Dallas Drive, Kamloops, B.C. V2C 6T4
Phone (250) 573-5700 Fax (250) 573-4557
email: ecotech@direct.ca

CERTIFICATE OF ANALYSIS AK 2000-362

LINDA CARON, M.Sc., P. Eng.
Consulting Geologist
Box 2493
GRAND FORKS, BC
V0H 1H0

21-Nov-00

ATTENTION: Linda Caron, M.Sc., P. Eng.

No. of samples received: 11
Sample type: Moss Mat
Project #: None Given
Shipment #: None Given
Samples submitted by: L. Caron,M. Sc., P. Eng.

ET #.	Tag #	Au (ppb)
1	PGM#1	5
2	PGM#2	5
3	PGM#3	5
4	PGM#4	5
5	PGM#5	5
6	PGM#6	10
7	PGM#7	5
8	PGM#8	5
9	PGM#9	5
10	PGM#10	5
11	PGM#11	5

QC DATA:

Repeat:

1	PGM#1	5

Standard:

GEO'00	110

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/00

Lavington Area

SAMPLE DESCRIPTIONS

and

ANALYTICAL RESULTS

Lavington area Sample Locations and Descriptions

Rock Samples

L00-1R	TRIM 82L.025	5570470		348157	At creek crossing on main road, ~ 8 km, just before "main zone". ~ 10 m wide zone of black earthy material - looks like Mn wad. Poorly exposed, no contacts exposed. Near (or on?) contact between py-sericite schist and fine grained diorite to north.
L00-2R	TRIM 82L.025	grid 9+90 N	grid 94+00E		Knoll of fine crowded fsp porphyry with rare remnant qtz eyes. Mod-str seric alt'n, hem stain. Mod well developed foliation. Several qtz veins in subcrop and outcrop, hosted in foliated intrusive. One vein, in place, is par to fol'n, up to 30 cm wide, trends 300/90. White bull type qtz veins, tr py, look like meta-sweat type veining.
L00-3R	TRIM 82L.025	grid 6+60 N	grid 93+00E		Root fall with several ~10 cm wide white massive qtz vns in str talc-seric, mod fol'd, buff coloured fsp porph with weak breaky tourm-chl. -3R is sample of qtz vn.
L00-4R	TRIM 82L.025	grid 6+60 N	grid 93+00E		Same location as -3R. Sample of alt'd fsp porphyry

20-Nov-00

ECO-TECH LABORATORIES LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AK 2000-361

LINDA CARON, M.Sc., P. Eng.
Consulting Geologist
Box 2493
GRAND FORKS, BC
V0H 1H0

ATTENTION: Linda Caron, M.Sc., P. Eng.

No. of samples received: 4
Sample type: ROCK
Project #: None Given
Shipment #: None Given
Samples submitted by: Linda Caron, M.Sc., P. Eng.

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	L00-1R	5	15.6	>10	50	260	<5	0.53	87	188	66	372	0.34	50	0.10	<1	<1	0.02	163	1330	26	<5	<20	107	0.09	<10	22	<10	111	5626
2	L00-2R	5	<0.2	0.04	5	<5	<5	0.01	1	1	157	5	0.40	<10	0.01	282	5	<0.01	6	20	10	<5	<20	<1	<0.01	<10	4	<10	1	68
3	L00-3R	5	<0.2	0.16	20	<5	<5	0.56	<1	2	145	17	0.66	<10	0.09	264	4	0.01	5	40	<2	<5	<20	28	<0.01	<10	9	<10	<1	9
4	L00-4R	5	<0.2	1.14	10	75	<5	0.41	<1	17	56	114	3.68	10	0.80	527	2	0.04	22	1210	8	<5	<20	20	<0.01	<10	28	<10	7	41

QC DATA:

Resplit:

1	L00-1R	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Repeat:

1	L00-2R	5	15.8	>10	60	260	<5	0.55	89	189	68	379	0.35	50	0.10	<1	<1	0.02	159	1370	24	<5	<20	110	0.09	<10	22	<10	112	5691

Standard:

GEO'00		115	0.8	1.61	55	160	<5	1.53	<1	19	54	88	3.46	<10	0.89	708	1	0.02	27	720	22	10	<20	53	0.09	<10	66	<10	12	78

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

df/360b
XLS/00