BRITISH COLUMBIA

PROSPECTORS ASSISTANCE PROGRAM

MINISTRY OF ENERGY AND MINES

GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:	1998/99
REPORT #:	PAP 98-42
NAME:	DAVID MOLLOY

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM

Name: David E. Molloy

Days:

Project Area:	Project Completed?	Prospecting Days	Other Days	Total Days
Delta West Project Area	Yes, as field conditions allowed	30	8	38

PROSPECTING ASSISTANTS:

Janine Calder, B.Sc., geologist.
David R. Kennedy, B.Sc., geologist

CLAIMS STAKE DURING/AFTER PROSPECTING ACTIVITY: None

Project Area:	Claim Names:	No. of Units

OPTION AGREEMENTS: None to date

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM

B. TECHNICAL REPORT:

NAME: David E. Molloy

PROJECT AREA: Delta West Project Area

LOCATION OF PROJECT AREA: NTS: 104 A/12 **Lat** 56 deg, 36';
Long 129 deg, 38'

DESCRIPTION OF LOCATION AND ACCESS:

The Delta West Project is situated in the Delta Peak Area of the Skeena Mining Division about 80 km northeast of the town of Stewart, B.C.; and, about 70 km north of Meziadin Junction, B. C.

The Stewart-Cassiar Hwy trends generally northwest on the west side of the project area and provides excellent access. Much of the ground in the vicinity of the highway has been clear cut and a number of old lumber roads provide some additional, interior access.

MAIN COMMODITIES SEARCHED FOR: gold, copper

KNOWN MINERAL OCCURRENCES IN PROJECT AREA: none

WORK PERFORMED:

3. GEOCHEMICAL (type and no. of samples): 32 element ICP on 219 soil, 20 rock samples; gold analysis (FA-AA) on one rock sample and five soil samples.

7. OTHER (specify): The 1997 Delta West reconnaissance grid was restored in the large clear cut (L14N to L50N) to cover the Hwy, Central and East Zones. Fill-in L20N, 24N, and 28N and step out L31N and 32N were installed from the Stewart-Cassiar Hwy to the eastern limit of the clear cut.

Prospecting was carried out to examine areas of angular float and subcrop boulders and 32 representative samples of generally well altered rock were collected.

The 10 km horizontal loop EM survey was carried out on seven grid lines (L14N, L20N, L22N, L24N, L26N, L28N AND L30N) with a MAX-MIN I-10 Electromagnetic System.

SIGNIFICANT RESULTS:

COMMODITIES: Zinc, copper, cadmium, barium soil anomalies.
CLAIM NAME: Fox 30-34

LOCATION (shown on Maps 5-9): area of interest centered at about **Lat** 56°, 37.5', **Long** 129°, 39.8'; **Elevation:** approx. 534 m.

BEST ASSAYS/SAMPLE TYPE: best assays constitute consecutive soil samples with anomalous zinc contents, and with copper haloes: e.g., east side, Central Zone, infill L31N - zinc values at 25 m spacing: 346, 456, 422, 544, 384 ppm; e.g., East Zone, infill L24N, zinc values at 25 m spacing: 436, 446, 456, 418, 422 ppm; and, e.g., Hwy Zone, infill L28N, zinc values at 25 m spacing: 340, 348, 558, 302, 344 ppm.

DESCRIPTION OF MINERALIZATION, HOST ROCKS, ANOMALIES:

MINERALIZATION:

The postulated target mineralization is buried and has yet to be discovered by diamond drilling.

HOST ROCKS:

The sparse outcrops located during the 1998 program comprise mainly black shale and mudstone . The rocks have platy cleavage, trend northwest, have near vertical dips and display varying degrees of limonitization. The main evidence as to specific types of overburdened covered bedrock lithologies is often apparently provided, at many locations, by the dominance of a particular type of angular float and/or subcrop. Based on this evidence, the most pervasive rock type underlying the grid is interpreted to be altered crystal tuff and tuff breccia. Breccia fragments ranging up to over 30 cm are often found in a silicified crystal tuff matrix. The rocks are usually strongly altered (hematized, limonitized, manganese stained, silicified, and chloritized with or without chlorite/calcite/quartz stockworks) and show varying degrees of sulfidization (usually vuggy pyrite). The rock type is considered important, particularly when hematized, since it is the main host rock of gold and copper mineralization on the Todd Creek Property and on the Deltaic Grid, east of the Delta West Grid.

The next most pervasive, apparent bedrock types are: fine grained, silicified mafic volcanic rock of andesitic composition, often with quartz and white calcite fracture fillings; sediments (shale, mudstone, sandstone), often hematized and forming linear ridges; bleached rhyolite and dacite, often hematized and sulfidized with disseminated pyrite; and, minor intrusive rocks of dioritic composition. The latter rock type is usually well pyritized and has variable magnetite content.

It is further postulated that the Hwy Zone is apparently associated mainly with altered tuff and tuff breccia; the Central Zone with altered mafic volcanics, tuff breccia and some mudstone and shaly sediments; and, the Rhyolite Zone with dacite and rhyolite. The rock types host the gold/copper mineralization on the Deltaic Grid, approximately 8 km to the east, and most of the important deposits in the Stewart Camp.

SOIL GEOCHEMICAL ANOMALIES:

Contouring of the integrated zinc, copper, cadmium and barium soil anomalies (using thresholds of 250, 40, 1 and 250 ppm, respectively) reflects element zoning and correlations that are characteristic of important copper and gold mineralization in the Stewart Camp. For example, as outlined by the 400 ppm zinc contour, linear to anastomosing zinc zones are found within the previously interpreted Hwy, Central, East and Rhyolite Zones. The contoured zones have strike lengths up to 1.8 km, and apparent strike lengths up to over 3.6 km. The zones also show considerable thickening e.g., near L26N, the 400 ppm zinc contour of the Central Zone is about 250 m wide and averages 477 ppm zinc.

As outlined by the 40 ppm copper soil contour, anomalous copper zones have the same morphology and considerable strike extents as the zinc zones. However, the copper zones generally display, as is often the case for soil geochemistry over zoned copper-gold deposits in the Stewart Camp, a flanking relationship to the zinc soil anomalies. The most prominent copper zone is associated with the Rhyolite Zone on the east side of the grid. There, the 40 ppm copper anomaly has an average width of about 250 m (e.g., averaging 72 ppm over 250 m on L18N) and remains open to the east, southeast and northwest.

Barium, as outlined by the 250 ppm contour, and cadmium as outlined by the 1 ppm contour, generally display the same considerable strike extends as zinc and copper. Barium and cadmium anomalies show some good correlation with zinc but have more specificity and apparent linearity than anomalous zinc. The strongest barium anomaly is located on the eastern edge of the grid, on the Rhyolite Zone, where it shows good correlation with copper, cadmium and zinc anomalies. The barium and cadmium expression of the postulated northwest extension of the Rhyolite Zone, as provided by historical surveys, is particularly intriguing in view of the apparent width and strength of the zones (e.g., barium averaging 1082 ppm over about 200 m on the claim line south of L50N), and their correlation with zinc and some copper values. As indicated by the good correlation of zinc with barium and by the flanking copper association, the apparent northwestern extension of the Hwy Zone is also a very interesting follow-up target.

As outlined to date, the strongest cadmium soil anomaly is associated with the Central Zone between L24N and L31N. There, the interpreted cadmium soil anomaly is up to 400 m in width, shows good correlation with the strongest part of the Central Zone zinc anomaly, has some direct barium association and has a classical flanking copper association. Immediate drill targets are delineated by the wide, strong IP chargeability anomaly associated with the geochemical anomalies on L26N. The 1997 reconnaissance IP survey was not carried out further to the northwest, but based on the soil geochemistry, the target obviously continues beyond L30N.

Only the initial 1997 soil samples were analyzed for gold and although most did not have any significant gold contents, weak gold values ranging up to 30 ppb were returned from samples on L18N, L22N and L30N, near the originally interpreted east boundary of the Central Zone. The wide IP chargeability and associated zinc and cadmium anomalies on L26N offer a large drill target. Moreover, based on geochemical and geophysical criteria, the eastern section of the Central Zone on most lines is deemed to offer high priority drill targets, including the specific HLEM geophysical anomaly on L30N discussed below.

HLEM ANOMALIES:

The MAX-MIN survey was successful in delineating a number of weak to very weak, parallel to sub-parallel HLEM conductors, a number of which, because of their general linearity, strike lengths and interesting correlations with geophysical and geochemical anomalies, are deemed to be of particular interest. The conductors are discussed below:

CONDUCTOR A:

The weak conductor trends northwest and has been traced for about 700 m (L30N to L24N). Since it is located at the eastern edge of the survey area, it is not fully delineated on all lines and its dip remains uncertain. The conductor shows some direct correlation with copper, zinc, cadmium and barium, and moderate to strong IP chargeability correlation on L26N - the only line along its strike length that has been surveyed with IP. Host rocks apparently include felsic volcanics, and crystal tuff and crystal tuff breccia.

CONDUCTOR B:

The weak conductor parallels Conductor A, has an interpreted strike length of over 1.6 km (L14N to L30N) and a near vertical dip. On L26N and to the northwest, the conductor has direct correlation with copper, cadmium and barium, and a more flanking correlation with zinc soil geochemistry. To the southeast of L26N, the main correlations are flanking for the copper, cadmium and barium, and direct and flanking to some of the strongest zinc geochemistry. On lines surveyed with IP, the conductor has moderate to strong IP chargeability correlation. Host rocks apparently include felsic volcanics, pyroclastic rocks and shaly sediments.

CONDUCTOR C:

The weak conductor parallels Conductor B, and also has an interpreted strike length of over 1.6 km and a near vertical dip. On L24N and to the northwest, the conductor has direct correlation with copper, and a flanking correlation with cadmium, barium and some of the strongest zinc soil geochemistry. To the southeast of L26N, the conductor has a more direct correlation with zinc and a flanking association with respect to copper, cadmium and barium. On lines surveyed with IP, the conductor has moderate to strong IP chargeability correlation. Host rocks include mainly crystal tuff and crystal tuff breccia and some felsic volcanic rocks.

CONDUCTOR D:

The weak conductor parallels Conductor C, and also has an interpreted strike length of over 1.6 km and a near vertical dip. The conductor generally has a flanking association with copper, barium, and cadmium soil geochemistry, with the exception of north of L26N, where it has direct correlation with cadmium. The conductor mainly has a direct association with anomalous zinc soil geochemistry, but a flanking relationship with the higher zinc soil values. On lines surveyed with IP, the conductor has moderate to strong IP chargeability correlation. The central and eastern segments of the conductor trend sub-parallel to topographic linears, which flank it on the east and west, and which are interpreted to be faults.

CONDUCTOR E:

The weak conductor parallels Conductor D, and has an interpreted strike length of about 800 m (L20N to L28N) and a near vertical dip. The conductor generally has a close flanking to direct association with copper, cadmium, and zinc, and a more direct association with barium soil geochemistry. On lines surveyed with IP, the conductor has strong IP chargeability correlation on L26N. The central portion of the conductor is flanked to the east by an interpreted, sub-parallel fault. The conductor appears to be associated with pyroclastic and mafic volcanic rocks.

CONDUCTOR F:

The weak conductor parallels Conductor E, and has an interpreted strike length of over 1.6 km and a dip ranging from near vertical to easterly. The conductor has a close flanking to direct association with barium, a generally direct association with zinc, and some direct association with cadmium soil geochemistry. On lines surveyed with IP, the conductor has strong IP chargeability correlation on L26N. The conductor appears to be associated mainly with crystal tuff, and mafic and felsic volcanic rocks.

CONDUCTOR G:

The weak conductor parallels Conductors F and E, and has an interpreted strike length of over 1.6 km and a dip ranging from near vertical to easterly. The conductor has a flanking relationship to the east side of the main zinc, copper, cadmium, and barium soil geochemical anomalies of the Hwy Zone. On lines surveyed with IP, the conductor has moderate IP chargeability correlation. The conductor appears to be associated mainly with crystal tuff, and crystal tuff breccia.

REPORT ON THE 1998 DELTA WEST PROJECT,

DELTA PEAK AREA:

SKEENA MINING DIVISION,

NORTHWESTERN BRITISH COLUMBIA

LATITUDE 56°36' NORTH

LONGITUDE 129°38' WEST

NTS 104 A/12

BY

DAVID E. MOLLOY

DECEMBER, 1998

SUMMARY:

1998 DELTA WEST PROJECT:

The Delta West Project is located in the Stewart Gold Camp about 70 km north of Meziadin Junction in Northwestern British Columbia. The project is centred on NTS Map Sheet 104A/12 at latitude 56°36'N, longitude 129°38'W and covers 86 square kms. The Delta West Grid straddles the Stewart-Cassiar Hwy and the main focus of the 1998 project, the Central Zone, is located about 500 m east of the Hwy. The Hwy Zone, located west of the Central Zone, and the East Zone, generally contiguous with, and to the east of the Central Zone, were originally secondary targets.

The project was initiated to follow-up weak Aerodat, conventional EM, airborne anomalies associated with subtle, apparently stratabound, soil geochemical anomalies; and, moderate to strong, wide, IP chargeability anomalies, outlined by 1996 and 1997 reconnaissance surveys. The geophysical and geochemical anomalies are correlative with a favourable geological environment initially documented by the GSC in 1993: a generally unexplored window of prospective Hazelton Group rocks on the western flank of the Oweegee Dome.

The project was carried out in September-October and October-November, 1998, as logistics and field conditions allowed. The work comprised the restoration of most of the clear cut portion of the 1997 Delta West Reconnaissance Grid (L14N to L50N); the installation of five fill-in and step out grid lines (L20N, 24N, 28N, 32N, 33N); the collection and ICP analysis of 219 detail and fill-in soil samples; geological mapping of the new grid lines; prospecting, including the collection of 32 rock samples and the ICP analysis of 20 samples, as an attempt to locate mineralization indicative of the source of the Hwy, Central and East Zones' geochemical/geophysical anomalies; and, a 10 km MAX-MIN HLEM survey, in an attempt to locate areas of higher conductivity, within the IP anomalies, which could be the main focus of initial diamond drilling.

The field program was executed by the author (30 field days), with the assistance of prospecting partner, David R. Kennedy (12 field days) for the grid installation and initial geochemical and geological surveys; and, in view of Mr. Kennedy's sudden infirmity, with Janine Calder, (8 field days) for the EM survey and prospecting activities. An application was filed to fund a portion of the approximately $20,000 of allowable project expenditures under the 1998 Prospector's Assistance Program of British Columbia.

The main exploration target is polymetallic, stratabound mineralization, including copper, lead, zinc, silver and gold. The target mineralization is associated with the favourable, recently delineated Hazelton Group rocks, and includes Eskay Creek type VMS sulfide mineralization.

The exploration rationale includes the following parameters: altered Hazelton rocks (including mafic to felsic volcanic and pyroclastic rocks, and interbedded sediments) and associated dioritic intrusions in the Stewart area have potential for hosting substantial polymetallic orebodies; such Au-Cu deposits are often haloed by Zn-Cd-Ag mineralization; the associated polymetallic soil or sediment geochemical signature, the most apparent component of which is often zinc, can effectively identify regional and specific exploration targets, which, when evaluated with appropriate geophysical tools, can often yield priority drill targets.

Substantial glacial-fluvial overburden can significantly dilute the magnitude of the geochemical anomalies associated with buried mineralization; however, subtle but consistent zinc anomalies, when augmented by some copper, cadmium, barium, silver, etc., with or without arsenic and gold, can constitute an important pathfinder signature for the buried mineralization. The zinc soil geochemistry is deemed to be particularly indicative of proximal mineralization, when associated directly with or flanked by copper or copper-gold soil anomalies.

The 1998 program was carried out mainly in a large clear cut on the east side of the Bell-Irving River Valley. The 1998 project area is generally 99% overburden covered and includes glacio-fluvial material which ranges in thickness from a few cm, in the vicinity of the sparse outcrops, to tens of meters in proximity to the river. Fairly well developed soil horizons exist in the previously densely forested areas, where extensive root systems have reworked the original cover.

The results of the 1998 detailed follow-up program, when integrated with the historical data, are deemed to have substantially advanced the project. The 1998 soil geochemical survey was successful in confirming the importance of the historical, reconnaissance exploration targets and the 1997 interpretation of the general morphology of the geochemical/ geophysical zones. While the zones have an apparent strike length of 4 km and remain open for expansion to the northwest, southwest and east, the soil geochemistry of the Hwy, Central and East Zones has now been delineated in some detail over a 1.8 km strike length. Contouring of the integrated zinc, copper, cadmium and barium soil anomalies now reflects element zoning and correlations that are characteristic of important copper and gold mineralization in the Stewart Camp; and thus, when combined with the positive geological and geophysical data, are indicative of priority, apparently stratabound drill targets on the Delta West Property.

The geological survey located only sparse outcrops of mainly shale and mudstone in the center of the grid that are interpreted to be interbeds of the of the Hazelton Group sediments. A number of linear, northwest trending fault valleys were delineated that may control, or have an important role in the genesis of the target mineralization.

In many areas, the underlying bedrock types can apparently be ascertained locally via the predominance of a particular type of angular float rock and/or subcrop. Based on this evidence, the main rock types on the 1998 Delta West Grid are: altered tuff and tuff breccia; altered mafic volcanic of andesitic composition; shale and mudstone; altered rhyolite/dacite; and, some altered intrusive rocks of dioritic composition. It is further postulated that the Hwy Zone is apparently associated mainly with altered tuff and tuff breccia; the Central Zone with altered mafic volcanics, tuff breccia and some mudstone and shaly sediments; and, the Rhyolite Zone with dacite and rhyolite. The rock types host the gold/copper mineralization on the Deltaic Grid, located approximately 8 km to the east, and most of the important deposits in the Stewart Camp.

Prospecting activities were carried out to locate further evidence of the source of the soil geochemical anomalies in the altered float and subcrop. Historical surveys had located a variety of altered float rocks, often with anomalous copper contents ranging up to 269 ppm, with generally little anomalous zinc and no gold. However, a float sample of altered tuff breccia located on L14N at 56+85E did contain 95 ppb gold and 252 ppm copper. The weakly pyritized sample is located in an area of a strong chargeability anomaly and correlating copper, zinc and barium soil anomalies.

In 1998, twenty composite samples of angular float rock were analyzed via 32 element ICP. Five of the these samples also have anomalous copper contents. The majority of all the rock samples with anomalous copper contents are located in some proximity to the eastern segment of the Central Zone, thus adding further credibility to the proposed diamond drilling referenced above.

The approximately 10 km MAX-MIN electromagnetic survey was carried out on 7 grid lines and utilized 3 frequencies (880, 3520 and 14080 Hz). The survey was successful in locating a least seven sub-parallel, weak EM conductors that range up to over 1.6 km in length, and a number of which correlate with the interpreted geochemical and reconnaissance IP anomalies. A number of these geochemical/geophysical targets are now considered high priority drill targets and it is recommended that their drill investigation constitute the next stage of exploration on the Delta West Grid. A two hole, 600 m initial drill test that should total about $90,000 is recommended. Since the targets are in close proximity to the Stewart-Cassiar Hwy, they can be pursued year round. All the targets are large and remain open for expansion; and, if the drilling is successful, the 1998 program should be expanded to the northeast, northwest and southeast to evaluate additional, readily apparent targets.

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

LIST OF MAPS

LIST OF APPENDICES:

REPORT ON 1998 DELTA WEST PROJECT:

SKEENA MINING DIVISION,

NORTHWESTERN BRITISH COLUMBIA

1. INTRODUCTION:

This report describes the results of geological, geochemical, geophysical and prospecting surveys carried out as the 1998 Delta West Project. The project area is located on the eastern edge of the Stewart Gold Camp, approximately 80 km northeast of Stewart in northwestern B.C. (Figure 1).

The regional rationale for the program includes the copper and gold mineralization reported on the Delta 1 and 2 mineral claims located about 8 km east of the Delta West Project Area (Lee, 1990; Hamilton, 1991; Molloy, 1997; Map 1); a historical report describing widespread gold and copper values apparently on the Old Claims located just west of the project area (British Columbia Minister of Mines, 1929; Map 1); and, the presence of favourable Hazelton Group volcanic rocks mapped by the Geological Survey of Canada (Greig, Evenchick, 1993) on the flanks of the Oweegee Dome (Map 3). The Hazelton Group rocks host most of the significant gold deposits in the Stewart Camp and only reconnaissance historical exploration has ever been carried out in the Delta West Project Area.

The specific property rationale for the 1998 program entails the results of 1996 and 1997 reconnaissance surveys that delineated zones of zinc, cadmium, barium, and copper soil geochemical anomalies that are generally correlative with reconnaissance IP chargeability anomalies and which have apparently been traced over a 5 km strike length. Such geochemical/geophysical signatures often halo significant gold/copper mineralization in the Stewart Camp. Weak Aerodat airborne EM anomalies and the presence of rhyolitic horizons are further indicative of a prospective environment for a significant orebody, including Eskay Creek VMS type (Figure 2).

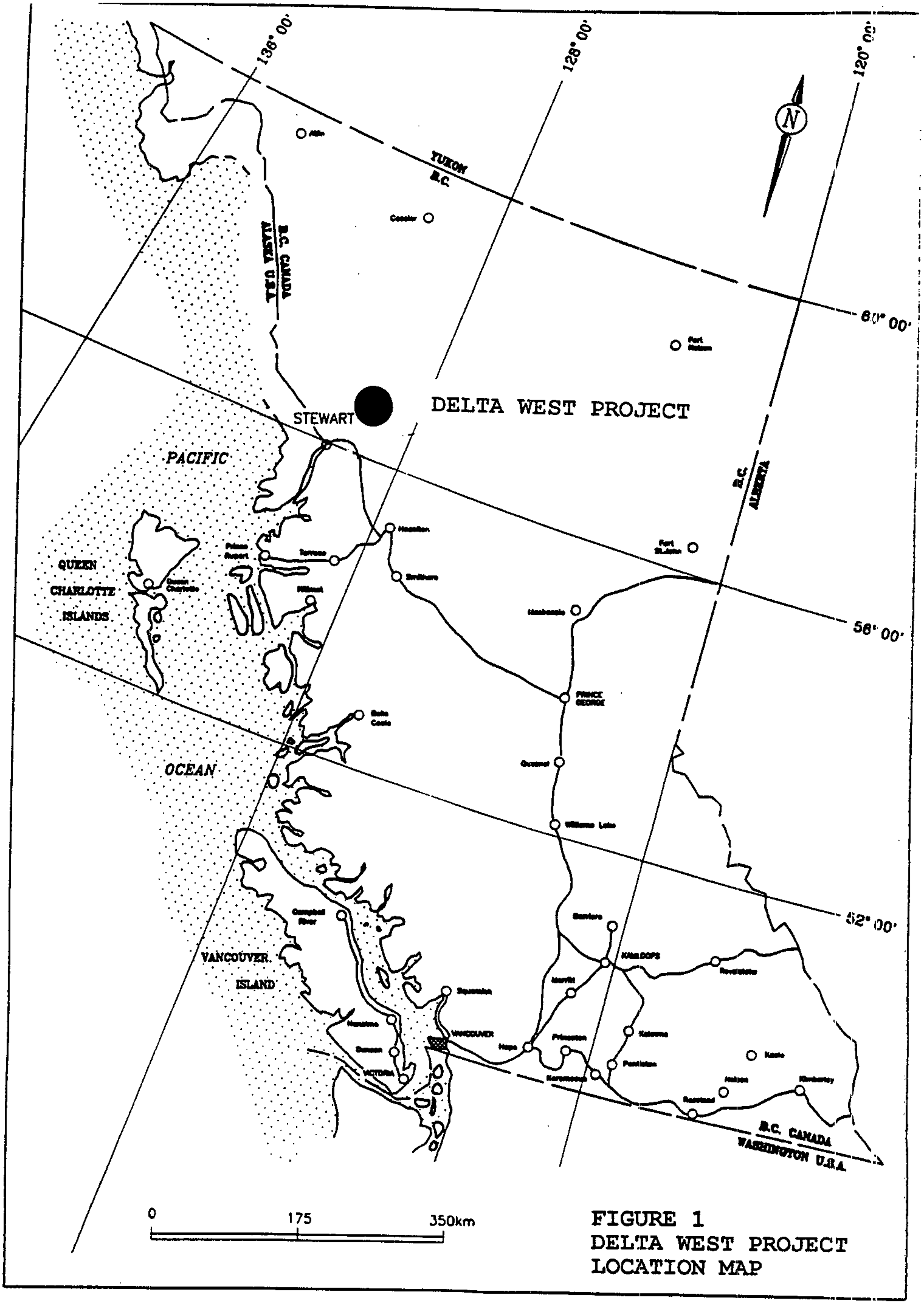

FIGURE 1
DELTA WEST PROJECT
LOCATION MAP

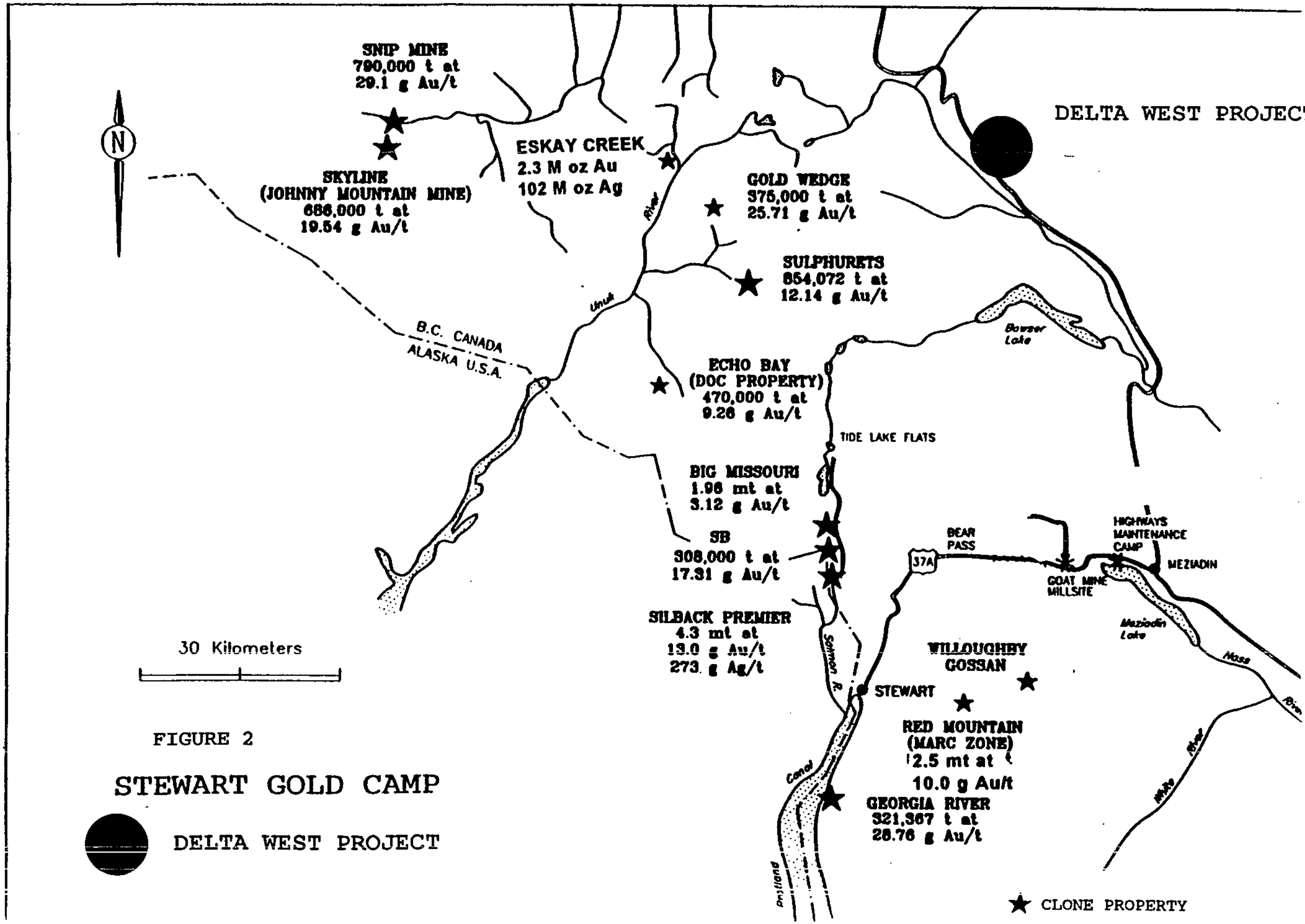

FIGURE 2

STEWART GOLD CAMP

DELTA WEST PROJECT

2. PROPERTY, LOCATION AND ACCESS:

The Delta West Project Area is shown on the claim map appended as Map 1 and the mineral claims are summarized in Table 1. The 18 claims comprise 86 square km and the author, David R. Kennedy, Janine Calder and Graeme Wallace each have a 25% ownership interest.

The Delta West Project is situated in the Delta Peak Area of the Skeena Mining Division about 80 km northeast of the town of Stewart, B.C. (Figure 2); and, about 70 km north of Meziadin Junction, B.C. (Figure 3). The Delta West Project is centred on NTS Map Sheet 104A/12, at latitude 56°36'N, longitude 129°38'W (Map 2).

The Stewart-Cassiar Hwy trends generally northwest on the west side of the project area and provides excellent access. Much of the ground in the vicinity of the highway has been clear cut and a number of old lumber roads provide some additional, interior access. Accommodation and fuel can be obtained at Bell 2 or at Meziadin Junction or Stewart (Figure 3). Gravel pits in close proximity to the highway and to the main streams draining the area provide excellent overnight camp sites.

3. TOPOGRAPHY, DRAINAGE, CLIMATE, WILDLIFE & VEGETATION:

The Delta West Project is located within the Boundary Ranges of the northern British Columbia Coast Mountains (Figure 4). The general area is characterized by the Bell-Irving River Valley and the fairly rugged mountainous terrain to the east ranging from about 500 to 1600 metres above sea level (Map 2). Delta Peak, to the east of the Project, and Oweegee Peak, 1 km north of Delta Peak, are both over 2200 m in elevation and dominate the topography. The mountain terrain is incised with young, deep valleys that trend northeast and that drain the area to the southwest, generally into the Bell-Irving River that parallels the Stewart-Cassiar Highway (Map 2).

The regional field exploration season usually extends from June through October. However, given the excellent, year round access and the relatively flat terrain of the Bell-Irving Valley, exploration activities can be implemented at most times of the year on the Delta West Grid.

Snowfalls are heavy in the Stewart area and can deposit several meters in a 24 hour period. Recorded mean annual snowfalls in the area range from 520 cm at Stewart (sea level) to 1,500 cm at Bear Pass (460 m elevation) to 2,250 cm at Tide Lake Flats (915 m elevation). Summers are usually characterized by long hours of daylight and pleasant temperatures. However, the proximity to the ocean and relatively high mountains make for highly changeable

Sept. 16, 1998 TABLE 1

DELTA WEST PROJECT AREA, FOX/PAT CLAIMS

DELTA PEAK SHEET, 104 A/12

DELTA WEST CLAIMS:

Claim Name	Tag No.	Rec No.	Units	Ann. Date	Expiry Date
FOX 30	233413	347293	20	Jun 21/96	Jun 21, 2001
FOX 31	233414	347294	20	Jun 21/96	Jun 21, 2001
FOX 32	233415	347295	16	Jun 29/96	Jun 29, 2002
FOX 33	233416	347296	20	Jun 24/96	Jun 24, 2001
FOX 34	233417	347297	20	Jun 24/96	Jun 24, 2002
FOX 35	220160	347520	16	Jul 3/96	Jul 3, 2002
FOX 36	233422	347298	16	Jun 24/96	Jun 24, 2002
FOX 37	231403	347299	20	Jul 1/96	Jul 1, 2002
FOX 38	231402	347300	20	Jun 30/96	Jun 30, 2000
FOX 39	233420	347301	20	Jun 29/96	Jun 29, 2002
FOX 40	233421	347302	20	Jun 29/96	Jun 29, 2002
FOX 48	218272	355296	20	Apr 24/97	Apr 24, 2002
FOX 49	218273	355297	20	Apr 24/97	Apr 24, 2002
FOX 50	218274	355298	16	Apr 24/97	Apr 24, 2002
PAT 50	220187	355292	20	Apr 24/97	Apr 24, 2001
PAT 51	220188	355293	20	Apr 24/97	Apr 24, 2002
PAT 52	220189	355294	20	Apr 23/97	Apr 23, 2002
PAT 53	220190	355295	20	Apr 23/97	Apr 23, 2002
			344		

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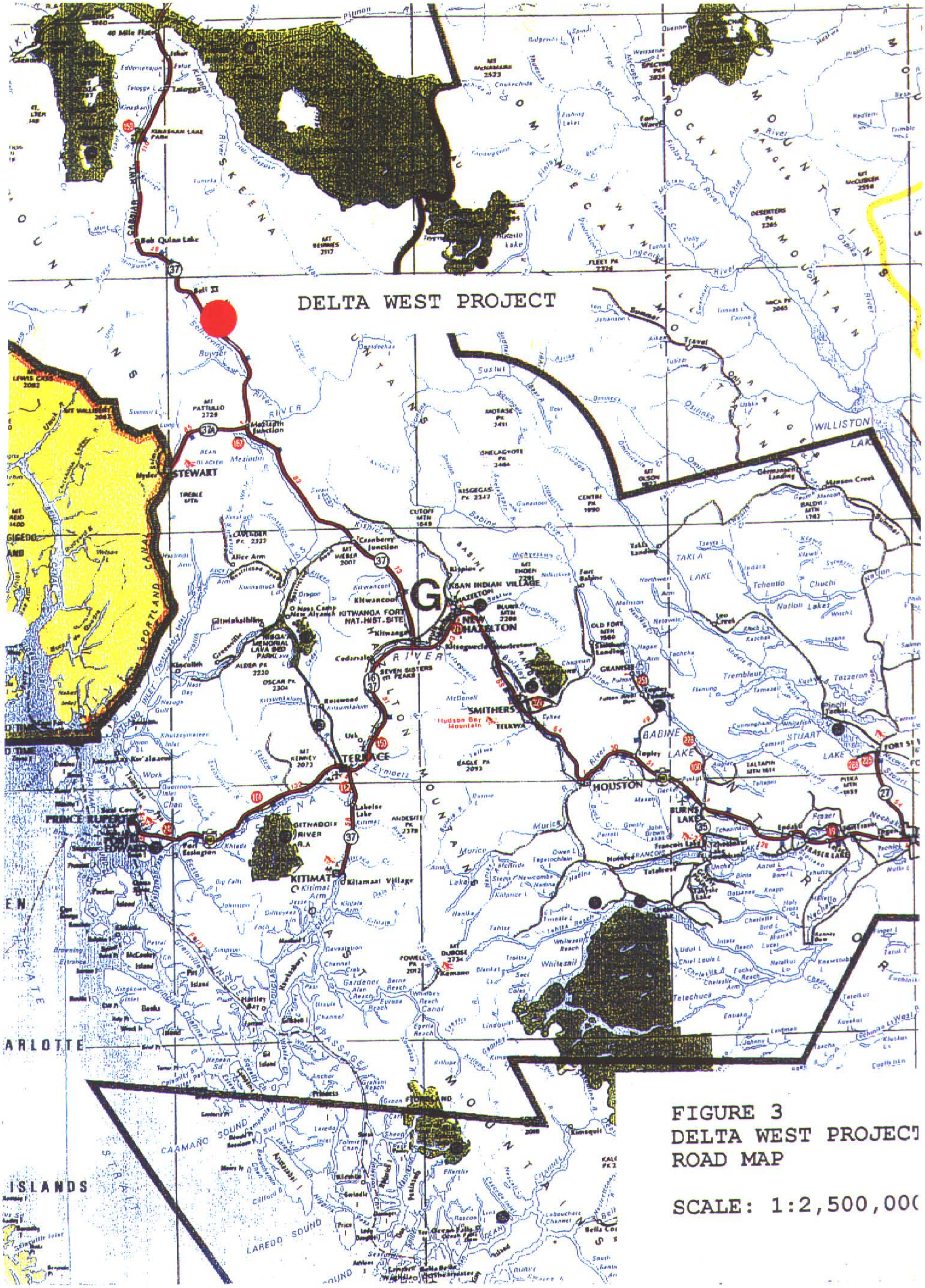


FIGURE 3
DELTA WEST PROJECT
ROAD MAP

SCALE: 1:2,500,000

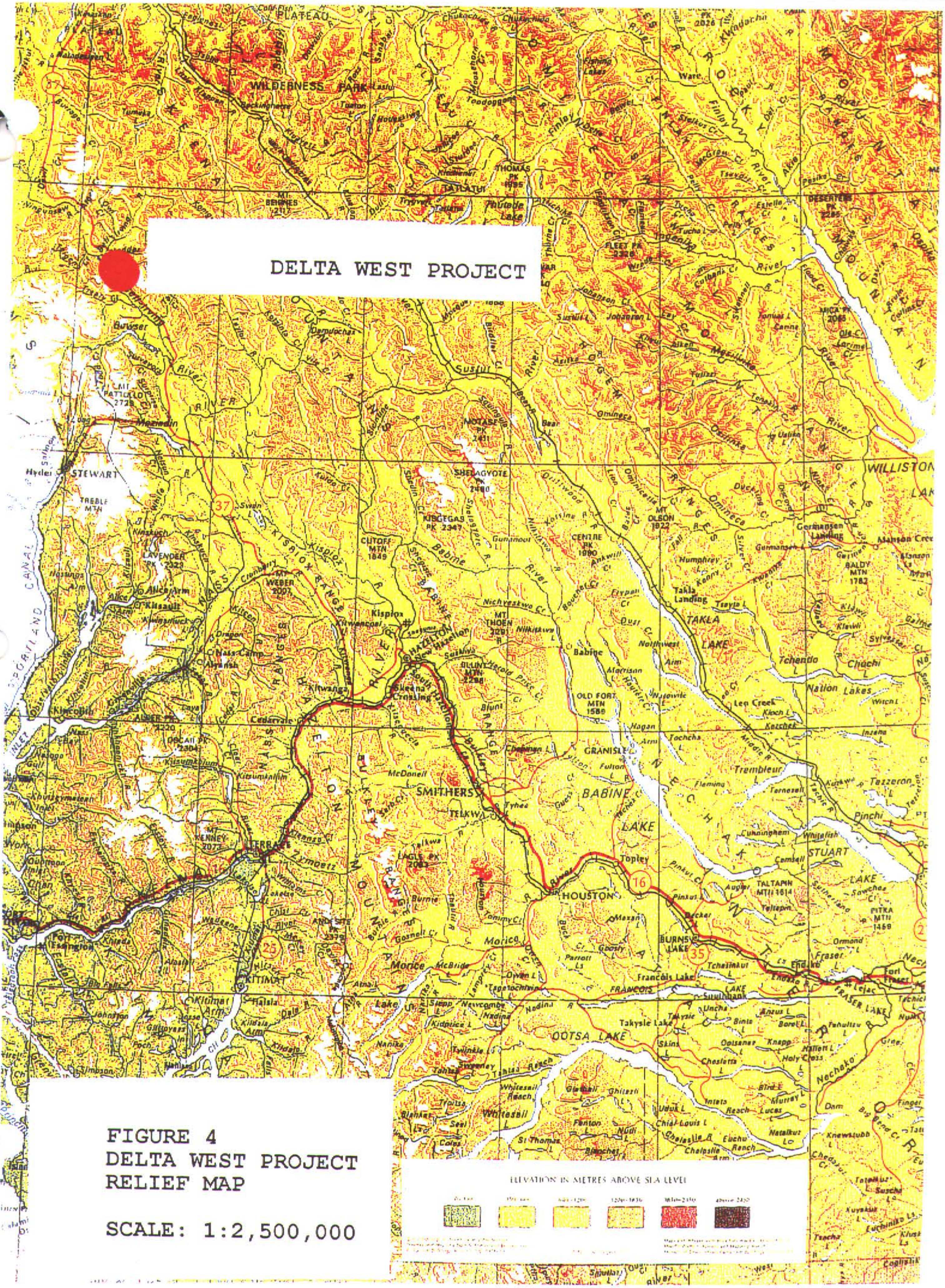


FIGURE 4
DELTA WEST PROJECT
RELIEF MAP

SCALE: 1:2,500,000

weather. September, October and the first half of November, 1998 were generally characterized by warm temperatures (daily values averaging about 12 degrees C), but often by interminable rainfall and fog that hindered program activities. In view of the northwest trending, often boggy linear valleys on the Delta West Grid, the geophysical survey was scheduled for November when such wet spots would be usually frozen. The time frame also coincided with the availability of the rental geophysical equipment.

Wildlife in the area of the Property mainly consists of goats, foxes, grizzly bears, black bears, wolves, marmots, martins, and ptarmigan. About 90% of the project area is situated below the treeline. Parts of the area immediately to the east and west of Stewart-Cassiar Hwy have been lumbered via clear cutting. Vegetation on the Property ranges from coastal rain forest including mature western hemlock, sitka spruce, fir, cottonwood and tag alders, with ferns, devil's club and moss as ground cover, to sub-alpine spruce thickets with heather and alpine meadows.

4. EXPLORATION HISTORY ON AND IN THE VICINITY OF DELTA WEST GRID:

The central area of the Stewart Camp was prospected mainly for visible gold in quartz veins at the close of the 19th century but very little of this work was documented. The Camp, after more recent discoveries that included Snip, Eskay Creek and Red Mountain (Figure 2), continues to be regarded as elephant country in which low cost discoveries can be made.

Some regional historical activities were reported apparently on the on the Old claims (Map 1), in the 1920's. As referenced in the Annual Report of the British Columbia Minister of Mines, 1929, Consolidated Mining and Smelting Company of Canada carried out work on the north side of Treaty Creek, about 58 km from the confluence of the Bell-Irving with the Nass River. According to the report, the company indicates that "the values are scattered over a large mineralized area and appear to be mainly in gold, silver, and copper, although sufficient work has not been done to form a criterion of the possible value of the property".

Indigo Mines funded an Aerodat helicopterborne magnetometer and VLF-EM survey in 1991 that covered the area of the Oweegee Dome. Apparently the company was wound up in 1992 and its ground position lapsed. There is no indication that the survey, the magnetic portion of which was useful in outlining Hazelton Formation rocks and structure, was followed-up on the ground.

In the 1990's, Cominco apparently carried out regional geochemical surveys in the area before staking the Delta Claims (Map 1) that cover a large colour anomaly (Lee, 1990; Hamilton, 1991). Cominco initiated reconnaissance surveys in 1990 and 1991 that delineated very anomalous gold and copper values in rock, stream sediment and talus samples. No additional work was recommended and detailed follow-up was never carried out.

Geofine carried out the Phase 1A reconnaissance program on the Fox Claims surrounding the Delta Claims (Molloy, 1993) for Barrick Gold in August 1993. The program focused on the evaluation of colour anomalies hosted by, or in the vicinity of prospective geology. Although a number of the gossan zones (Skowill, Porphyry) failed to return encouraging assay results, the Deltaic Zone and surrounding areas were deemed to constitute a high priority gold target.

Based on the positive analytical results obtained from the Geofine and Cominco initial exploration programs, the Deltaic Zone mineralization was interpreted to trend northeast over an apparent intermittent strike length of 3 km and have an apparent intermittent width of over 1 km. The Deltaic Zone remains open for expansion and detailed evaluation and could extend southeast onto the Delta West Grid.

As a follow-up to the 1993 Phase 1A program, Geofine carried out a 1993, Phase 1B program that was funded by Barrick Gold (Molloy, 1993A). The program was carried out on the Deltaic Grid, on the Delta claims, and comprised IP and magnetometer surveying, as well as soil geochemical surveys completed on grid lines totalling about 7.3 km. The follow-up program successfully delineated a number of weak - strong IP chargeability anomalies with coincident gold and copper geochemical anomalies. The most prominent targets are haloed by zinc soil anomalies. The polymetallic geochemical signatures are similar to those that are associated with most gold deposits in the Stewart Camp.

In 1996 the author and prospecting partner, David Kennedy, completed a B.C. Prospectors Assistance Program on claim lines in the Delta West Area (Molloy, 1996; Kennedy, 1996). A number of interesting soil geochemical anomalies were defined, with some of the most important zinc anomalies having direct silver, cadmium and barium correlation. Others have some cadmium and/or silver correlation, with anomalous copper association. Using these criteria, five northwest trending, anomalous zinc zones were initially interpreted from the reconnaissance soil survey.

In 1997, Cordal Resources funded an Aerodat airborne conventional EM and magnetic survey that located a number of weak EM anomalies in the vicinity of the Delta West soil geochemical anomalies (Molloy, 1997). The reconnaissance Delta West Grid was installed and covered a 3.2 km strike length of the target area, with minimum line spacing of 400 m. Based on soil geochemical surveys and some IP surveying, 4 zones of interest were interpreted: the Hwy, Central, East and Rhyolite Zones. The Central Zone was deemed a high priority follow-up target in view of its zinc and IP signature. For example, on L26N zinc values in the Central Zone average 381 ppm over 400 m, and are mainly associated with a strong

IP anomaly. On L22N and L30N, the Central Zone zinc anomaly averages 368 ppm over 375 m, and 364 ppm over 350 m, respectively.

The 1998 Delta West Project was initiated to locate and prioritize drill targets via detailed soil geochemical, geological and HLEM geophysical surveys and prospecting on the Hwy, Central and East Zones.

5. REGIONAL GEOLOGY:

The Delta West project area is situated on the eastern margin of a broad, north-northwest trending volcanogenic-plutonic belt consisting of the Upper Triassic Stuhini Group and the Upper Triassic to Lower Middle Jurassic Hazelton Group. This belt has been termed the "Stewart Complex" (Figure 5) by Grove (1986) and forms part of the Stikinia Terrane. The Stikinia Terrane together with the Cache Creek and Quesnel Terranes constitute the Intermontane Superterrane which was accreted to North America in Middle Jurassic time (Monger et al 1982). To the west the Stewart Complex is bordered by the Coast Plutonic Complex. Sedimentary rocks of the Middle to Upper Jurassic Bowser Lake Group overlay the Stewart Complex in the east.

The Jurassic stratigraphy was established by Grove (1986) during regional mapping conducted from 1964 to 1968. Formational subdivisions have been and are currently being modified and refined as regional work continues most notably by the Geological Survey Branch of the British Columbia Ministry of Energy Mines and Petroleum Resources (Alldrick 1984, 1985, 1989) and the Geological Survey of Canada (Anderson 1989, Anderson and Thorkelson 1990). The sedimentological, structural, and stratigraphic framework of the area is being established with some degree of precision.

The Hazelton Group represents an evolving (alkalic/cal-alkalic) island arc complex, capped by a thick turbidite succession (Bowser Lake Group; Figure 5). Grove (1986) divided the Hazelton into four litho-stratigraphic units (time intervals defined by Alldrick 1987):

1. The Upper Triassic to Lower Jurassic Unuk River Formation (Norian to Pliensbachian)
2. The Middle Jurassic Betty Creek Formation (Pliensbachian to Toarcian)
3. The Middle Jurassic Salmon River Formation (Toarcian to Bajocian)
4. The Middle to Upper Jurassic Nass Formation (Bathonian to Oxfordian - Kimmeridigian)

Alldrick assigned formational status (Mt. Dilworth Formation) to a Toarcian rhyolite unit (Monitor Rhyolite) overlying the Betty Creek formation. Rocks of the Salmon River Formation are transitional

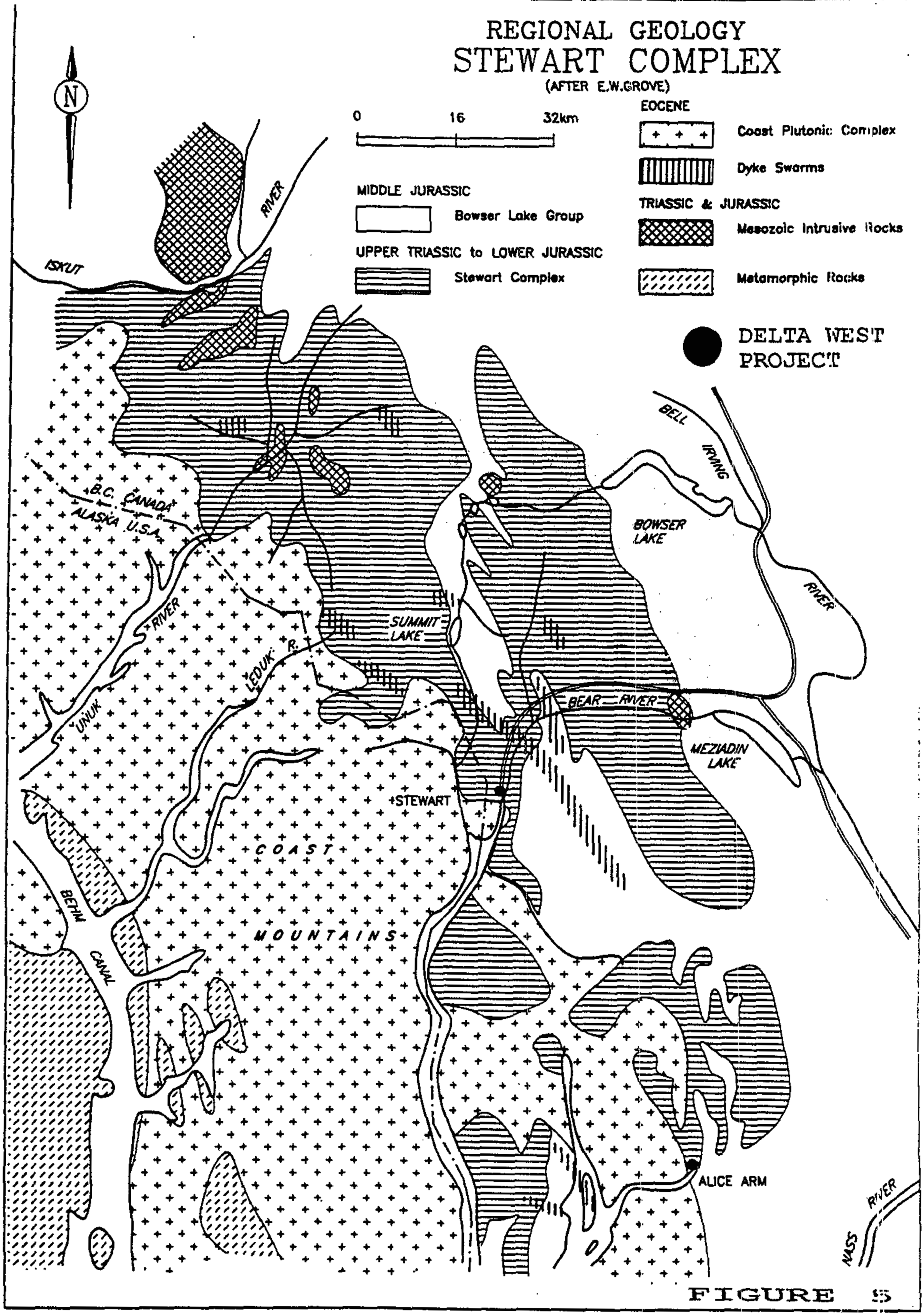

REGIONAL GEOLOGY
STEWART COMPLEX
(AFTER E.W.GROVE)
0
16
32km
EOCENE
Coast Plutonic Complex
Dyke Swarms
MIDDLE JURASSIC
Bowser Lake Group
TRIASSIC & JURASSIC
Mesozoic Intrusive Rocks
UPPER TRIASSIC to LOWER JURASSIC
Stewart Complex
Metamorphic Rocks
DELTA WEST PROJECT
N
ISKUT
RIVER
BELL IRVING
RIVER
BOWSER LAKE
B.C. CANADA
ALASKA U.S.A.
UNUK
RIVER
LEDUK R.
SUMMIT LAKE
BEAR RIVER
MEZIADIN LAKE
STEWART
COAST
MOUNTAINS
BEHM
CANAL
ALICE ARM
NASS
RIVER

FIGURE 5

between the mostly volcanic Hazelton Group and the wholly sedimentary Bowser Lake Group and are presently regarded as the uppermost formation of the Hazelton or the basal formation of the Bowser Lake Group.

The Unuk River Formation, a thick sequence of andesitic flows and tuffs with minor interbedded sedimentary rocks, hosts a number of major gold deposits in the Stewart area (Figure 2). The unit is unconformably overlain by heterogeneous maroon to green, epiclastic volcanic conglomerates, breccias, greywackes and finer grained clastic rocks of the Betty Creek Formation. Felsic flows, tuffs and tuff breccias characterize the Mt. Dilworth Formation (Figure 6A). This formation represents the climactic and penultimate volcanic event of the Hazelton Group volcanism and forms an important regional marker horizon. The overlying Salmon River Formation has been subdivided in the Iskut area into an Upper Lower Jurassic and a Lower Middle Jurassic member (Anderson and Thorkelson 1990). The upper member has been further subdivided into three north trending facies belts: the eastern Troy Ridge facies (starved basin), the medial Eskay Creek facies (back-arc basin) and the western Snippaker Mountain facies (volcanic arc).

Sediments of the Bowser Lake Group rest unconformably on the Hazelton Group rocks and were originally thought to underlie most of the Delta West project area. They include shales, argillites, silt and mudstones, greywackes and conglomerates. The contact between the Bowser Lake Group and Hazelton Group passes between Strohn Creek in the north and White River in the south. The contact appears to be a thrust zone with Bowser Lake Group sediment "slices" occurring within and overlying the Hazelton Group pyroclastic rocks to the west.

Two main intrusive episodes occur in the Stewart area: a Lower Jurassic suite of diorite to granodiorite porphyries (Texas Creek Suite) that are comagmatic with extrusive rocks of the Hazelton Group; and, an Upper Cretaceous to Early Tertiary intrusive complex (Coast Plutonic Complex and satellite intrusions). The early Jurassic suite is characterized by the occurrence of coarse hornblende, orthoclase and plagioclase phenocrysts and locally potassium feldspar megacrysts. The Eocene Hyder quartz-monzonite, comprising a main batholith, several smaller plugs and a widespread dike phase, represents the Coast Plutonic Complex.

Middle Cretaceous regional metamorphism (Alldrick et al. 1987) is predominantly of the lower greenschist facies. This metamorphic event seems to be related to compression and concomitant crustal thickening at the Intermontane - Insular superterrane boundary (Rubin et al. 1990). Biotite hornfels zones are associated with a majority of the quartz monzonite and granodiorite stocks.

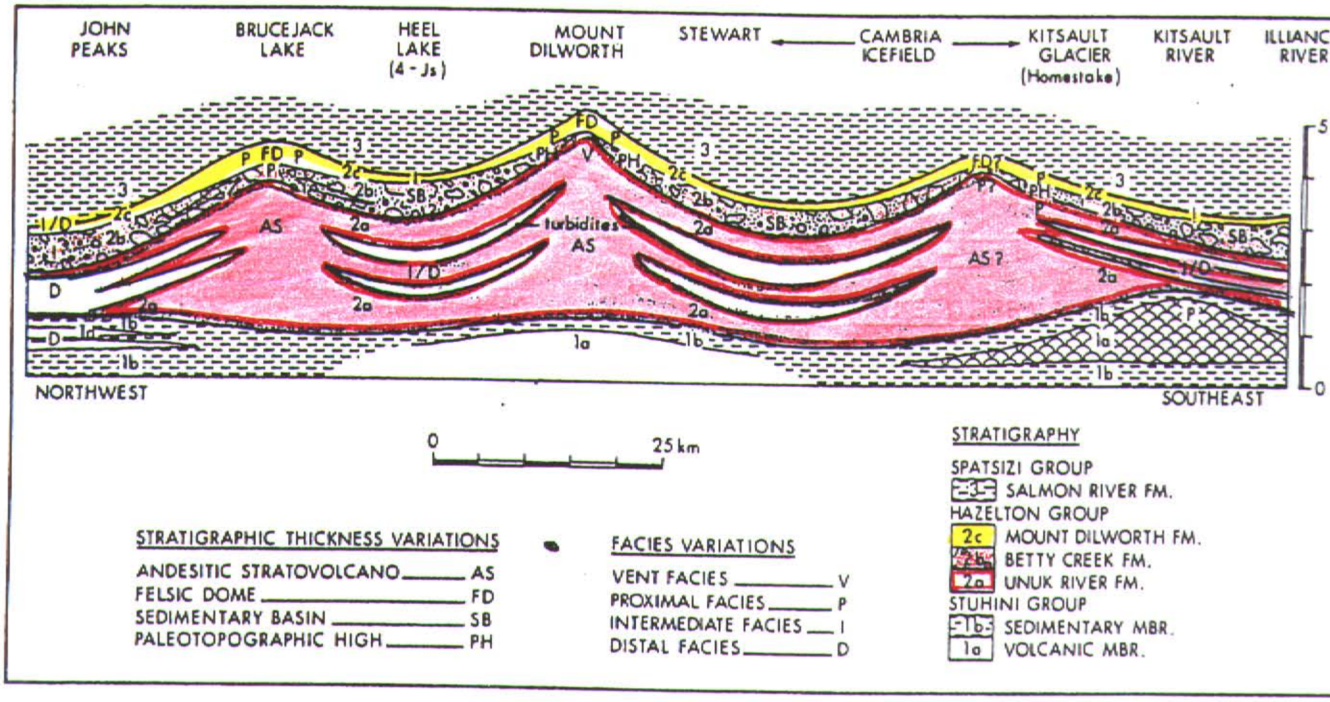


Figure 1-27-4. North-south schematic reconstruction through the Stewart complex.

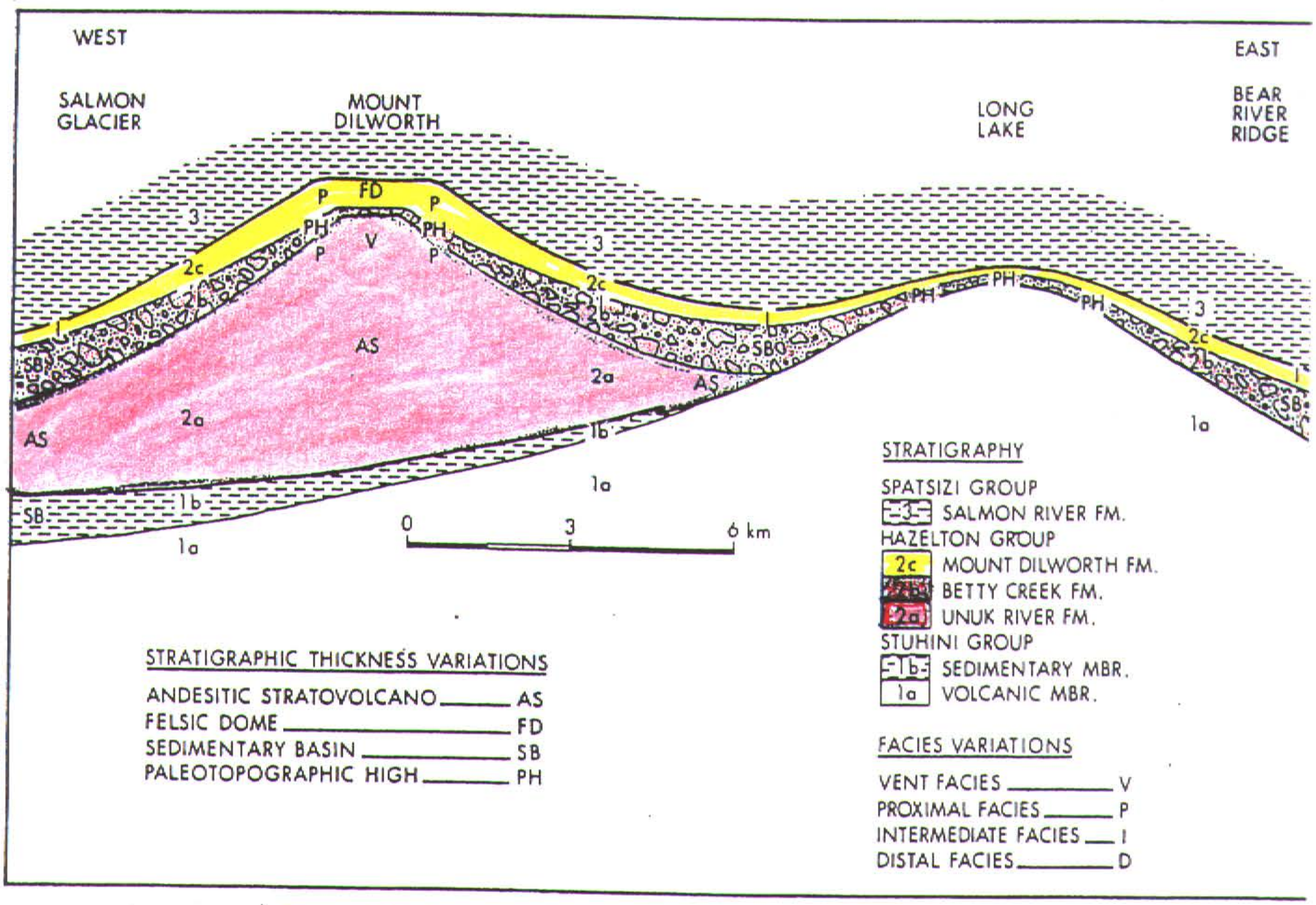


Figure 1-27-5. West-east schematic reconstruction through the Stewart complex.

FIGURE 6A
DILWORTH FORMATION IN STEWART COMPLEX STRATIGRAPHY

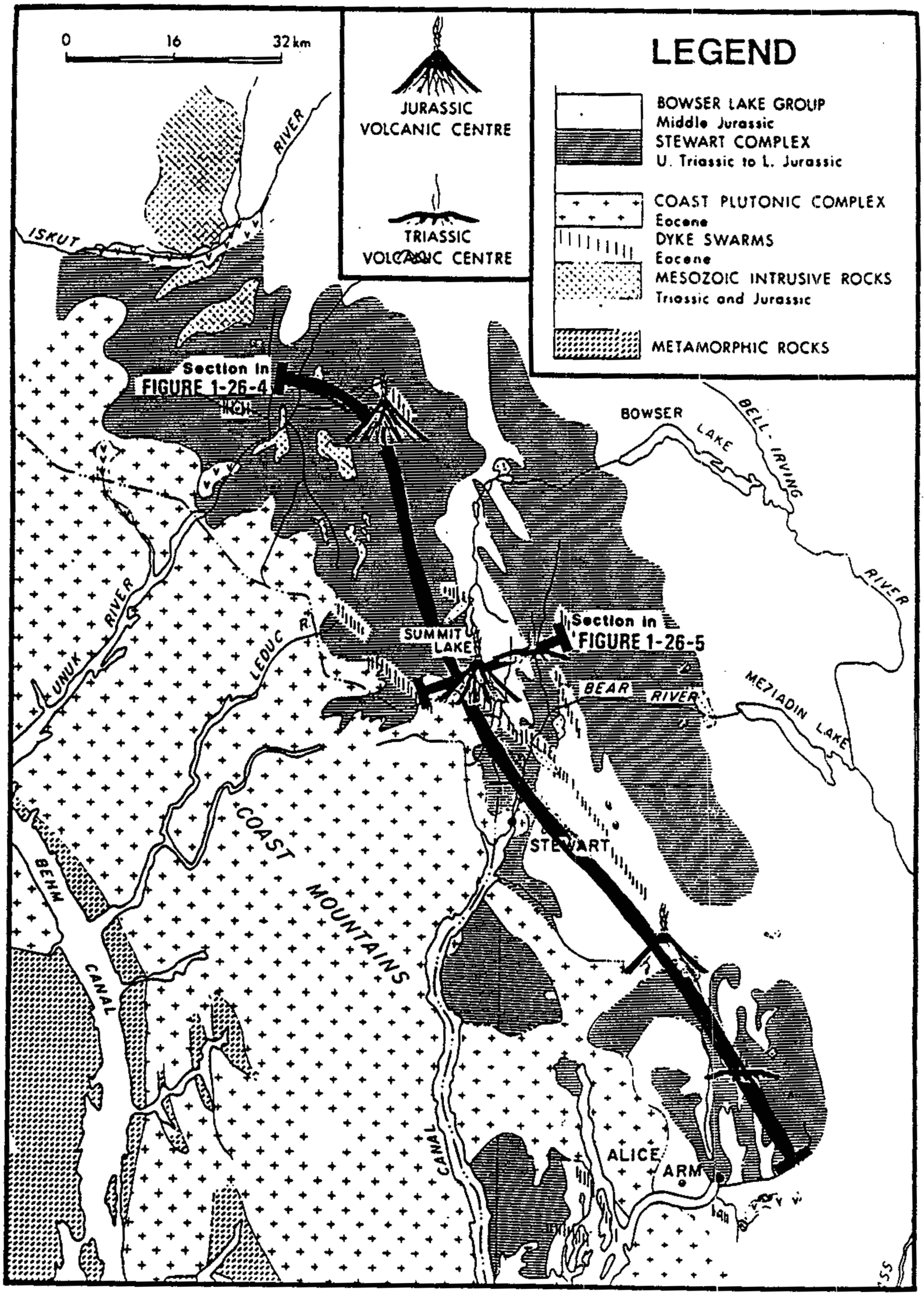
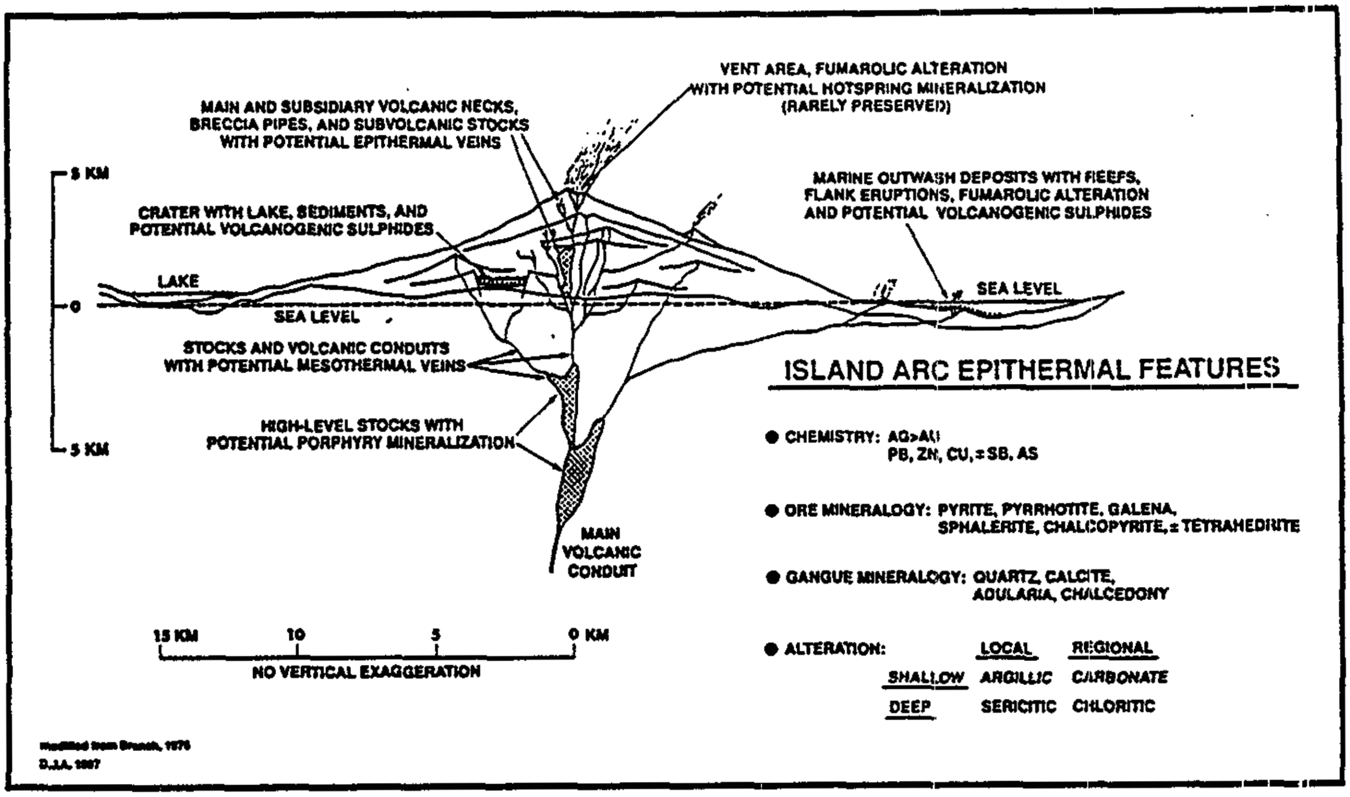


Figure 1-27-3. Distribution of the Stewart complex showing the locations of section lines for Figures 1-27-4 and 1-27-5.

FIGURE 6B

STEWART VOLCANIC BELT



Distribution of ore deposits within a stratovolcano (modified from Branch, 1976).

FIGURE 6C

MINERALIZATION TYPES
STEWART CAMP

6. REGIONAL MINERALIZATION AND EXPLORATION ACTIVITIES:

The Stewart Complex is the setting for the Stewart (Silbak-Premier, Silver Butte, Big Missouri), Iskut (Snip, Johnny Mountain, Eskay Creek), Sulphurets, and Kitsault (Alice Arm) gold/silver mining camps (Figure 2). Mesothermal to epithermal, depth persistent gold-silver veins form one of the most significant types of economic deposit. There appears to be a spatial as well as a temporal association of gold deposits to Lower Jurassic calc-alkaline intrusions and volcanic centres (Figures 6A, 6B). These intrusions are often characterized by 1-2 cm sized, potassium feldspar megacrysts and correspond to the top of the Unuk River Formation.

The most prominent example of this type of mineralization is the historic Silbak-Premier gold-silver mine which has produced 56,000 kg gold and 1,281,400 kg silver in its original lifetime from 1918 to 1976. The mine was reopened by Westmin in 1988 with reserves quoted as 5.9 million tonnes grading 2.16 g Au/t and 80.23 g Ag/t (Randall 1988). Mining was terminated in 1996 but the plant is still used for custom milling.

The ore is hosted by Unuk River Formation andesites and comagmatic Texas Creek porphyritic dacite sills and dykes. The ore bodies comprise a series of en echelon lenses which are developed over a strike length of 1800 metres and through a vertical range of 600 m (Grove 1986, McDonald 1988). The mineralization is controlled by northwesterly and northeasterly trending structures and their intersections but also occurs locally concordant with andesitic flows and breccias.

Two main vein types occur: silica-rich, low-sulfide precious metal veins and sulfide-rich base metal veins. The precious metal veins are more prominent in the upper levels of the deposit and contain polybasite, pyrargyrite, argentiferous tetrahedrite, native silver, electrum, and argentite. Combined sulfides of pyrite, sphalerite, chalcopyrite and galena are generally less than 5%. The base metal veins crosscut the precious metal veins and increase in abundance with depth. They contain 25 to 45% combined pyrite, sphalerite, chalcopyrite and galena with minor amounts of pyrrhotite, argentiferous tetrahedrite, native silver, electrum and arsenopyrite.

Quartz is the main gangue mineral, with lesser amounts of calcite, barite, and some adularia being present. The mineralization is associated with strong silicification, feldspathization, and pyritization. A temperature range of 250 to 260 degrees C has been determined for the deposition of the base and precious metals (McDonald 1990).

Middle Eocene silver-lead-zinc veins are characterized by high silver to gold ratios and by spatial association with molybdenum and/or tungsten occurrences. They are structurally controlled and lie within north, northwest, and east trending faults. This mineralization has been less significant in economic terms.

Porphyry molybdenum deposits are associated with Tertiary Alice Arm Intrusions, a belt of quartz-monzonite intrusions parallel to the eastern margin of the Coast Plutonic Complex. An example of this type of deposit is the B.C. Molybdenum Mine at Lime Creek.

Relatively recent exploration in the Stewart Mining Camp has resulted in the discovery of a number of exciting new deposits. Cominco's Snip Mine commenced production in January of 1991 with reserves of 790,000 tonnes grading 29.1 g Au/t.

The Eskay Creek gold-silver mine was constructed in 1994. Current reserves at Eskay Creek comprise about 1.2 million tons containing 2.28 million ounces of gold and 101.8 million ounces of silver. The Eskay Creek 21A Deposit is hosted within Contact Unit carbonaceous mudstone and breccia, as well as the underlying rhyolite breccia. Two styles of mineralization are present. The first is a visually striking assemblage of disseminated to near massive stibnite and realgar within the Contact Unit. The second style occurs in the adjacent footwall rhyolite, and features a stockwork style quartz-muscovite-chlorite breccia mineralized with sphalerite, tetrahedrite and pyrite. Highest gold and silver values are obtained where the Contact Unit is thickest and the immediately underlying rhyolite breccia is highly fractured and altered. Drilling has outlined a zone approximately 280 m long, up to 100 m wide and of variable thickness but averaging 10 m.

The Eskay Creek 21B Deposit is approximately 900 m long, from 60 to 200 m wide and locally in excess of 40 m thick. Contact Unit mineralization comprises a continuous stratiform sheet of banded high grade gold and silver bearing base metal sulfide layers, from 2 to 12 m thick. Mineralization appears to be bedding-parallel. Sulfide minerals present include sphalerite, tetrahedrite, boulangerite, bornite plus minor galena and pyrite. Gold and silver is associated with electrum, which occurs as abundant grains associated with sphalerite. Peripheral and footwall to the banded sulfide mineralization are areas of microfracture, veinlet hosted, disseminated tetrahedrite, pyrite and minor boulangerite mineralization.

Royal Oak's Red Mountain deposit (Figure 2) is on hold after the company's decision to concentrate its current efforts on putting the Kemiss deposit in production in 1998. In 1996, prior to spending about $8.5 M on Red Mountain, the company indicated it was looking at putting the deposit into production in the fourth quarter of 1999 at a production rate of 150,000 ounces of gold per year. Cash costs were expected to be in the range of $150 per ounce.

The Marc Zone and its northerly extension, the AV Zone, occur as sulfide lenses or cylinders associated with a structural junction and the brecciated contact of the Goldslide Intrusion. The mineralization consists of densely disseminated to massive pyrite and/or pyrite stringers and veinlets and variable amounts of associated pyrrhotite and sphalerite as well as chalcopyrite, arsenopyrite, tetrahedrite and various tellurides. Several phases of mineralization and deformation are indicated by the presence of different generations of pyrite and breccia fragments consisting of pyrite. High grade gold values are usually associated with the semi-massive, coarse-grained pyrite aggregates, but also with stockwork pyrite stringers and veinlets. Gold occurs as native gold, electrum and as tellurides.

The Willoughby Project (Figure 2) is located about 6 km east of Red Mountain and was initially drilled by Bond Gold in 1989. Seven structurally hosted zones of gold mineralization were intersected with varying amounts of copper, lead and zinc. Camnor and Giant Gold Minerals carried out a $1.3 M, 1996 program of surface and underground drilling concentrated on the North and Wilby Zones. In 1995, drilling on the North and Wilby Zones had returned up to 2.3 m grading 382.91 g gold/t and, 13 m grading 13.37 g gold/t, respectively. Camnor terminated work on the project in 1997.

In 1995, on the Clone Property located south of Red Mountain, Teuton Resources and Minvita Enterprises discovered and explored two sub-parallel shear zones up to 1.5 km in length that host high grade gold veins and stockworks. Extensive work that was carried out in 1996 apparently failed to yield consistent results.

7. DELTA WEST PROJECT GEOLOGY:

The Delta West Project Area is postulated to cover a tectonic window in which Jurassic Hazelton Group and Palaeozoic Stikine Assemblage rocks have been exposed by the uplift of broad anticlinal features known as the Oweegee and Ritchie Domes and by the erosion of Upper Jurassic sediments of the Bowser Basin.

The evolution of geological thinking with regard to the project area is described in the 1993, Phase 1B program report (Molloy, 1993A). The results of the Geological Survey of Canada's mapping activities are summarized on Map 3.

As indicated on Map 3, the west margin of the Oweegee Dome is dominated by rocks of the Lower Jurassic Hazelton Group: intermediate to mafic plagioclase-pyroxene lapilli tuff-breccia, lapilli, ash and dust tuffs; intermediate and felsic flows and derived debris flows; tuffaceous arkose, siltstone and mudstone; and, conglomerate and sandstone. These rocks, as mapped via 1996 and 1997 reconnaissance activities (Map 4), are interpreted to extend west to within 300 m of the east side of the Stewart-Cassiar

Hwy. Further to the west, the Hazelton Group is overlain by the Upper Jurassic Bowser Lake Group sediments including silty mudstones, fined grained sandstone and arkose. Hazelton Group rocks exposed on the east side of the Delta West Grid include rhyolitic to dacitic units.

The main components of the structural fabric trend northwest and northeast. Older faults (pre-Bowser Lake Group) according to Greig (1991) are mainly characterized by northwest dips which place Permian limestone on Stuhini Group rocks, and a steeply south dipping fault which juxtaposes the Stuhini Group with Hazelton Group rocks.

8. 1998 DELTA WEST PROJECT:

The Delta West Project, after approval from the B.C. Prospectors Assistance Program, was initiated in the field on September 24, 1998. Original plans to initiate the program on September 13 were terminated by the Air Canada labour disruption. During the first phase of the program (September 24-October 5), the historic reconnaissance grid base line and grid lines (L14N-L50N) in the large clear cut were restored and five fill-in lines and step-out lines (L20N, L24N, L28, L31, L32) were installed. Initial fill-in and step-out soil geochemical and geological surveys were also initiated. This work was completed by the author and prospecting partner David R. Kennedy.

A decision to complete the program during a second phase (October 26-November 13) was based on the availability of the HLEM geophysical rental equipment; the fact that November weather would probably freeze boggy areas on the grid lines that were flooded by persistent rain during the first phase activities; and, a sudden malady experienced by D. Kennedy. However, mild temperatures and incessant rainfall in late October added more water to topographic lows on the grid and negated the possibility of carrying out HLEM surveys on L50N and L18N. The geochemical survey and prospecting were completed by the author; and the geophysical survey was executed by the author and Janine Calder, geologist, of Mississauga, Ontario.

A total of 50 man field days were utilized. Allowable project expenditures total $19,865.68 and are summarized in Table 2. A description of daily activities is provided in Table 3. A British Columbia Prospectors Assistance Program grant of approximately $7500 has been allocated to the project.

The Delta West Project as described in this report consists of 5 main components:

- **A. 1997 GRID RESTORATION AND EXPANSION**
- **B. SOIL GEOCHEMICAL SURVEY**
- **C. GEOLOGICAL MAPPING**
- **D. PROSPECTING**
- **E. HLEM GEOPHYSICAL SURVEY**

8.A. 1997 GRID RESTORATION AND EXPANSION:

The 1997 Delta West reconnaissance grid was restored in the large clear cut (L14N to L50N) to cover the Hwy, Central and East Zones (Map 4). Fill-in L20N, 24N, and 28N and step out L31N and 32N were installed from the Stewart-Cassiar Hwy to the eastern limit of the clear cut (Map 4). The attempt to restore existing lines and extend new lines farther to the east beyond the clear cut was negated by the areas of entangled deadfall (burnt trees) on the edge of the cut, and a water filled swamp valley on the edge of the forest. Mature trees were also prone to the recent wind storms and significant cutting would be required to restore the historic lines and install new lines to the east of the clear cut. The western grid restoration and expansion was hampered by abnormal water conditions on low ground west of the Stewart-Cassiar Hwy.

8.B. SOIL GEOCHEMICAL SURVEY:

The geochemical program included the collection of 219 soil samples generally taken at a 25 m spacing on new lines and, at various fill-in intervals on L30N and L50N. The majority of the samples collected represent B horizon material obtained from pits dug 10 to 50 cm with a boniknocker - a modified grubhoe. Banks and overturned tree roots also were utilized as sample sources where conditions required. The samples are described in Table 4 and sample locations are shown on Map 4, where they have been integrated with historical work. The project was hampered by persistent rainfall that flooded boggy areas often associated with northwest trending linear faults.

The soil samples were subject to 32 element ICP analysis at Chemex Labs Ltd. in Vancouver. The certified analytical sheets are provided in Appendix 1. The zinc, copper, cadmium and barium values, along with the historical values, are shown in Table 4 and on Maps 5-8.

The 1998 soil geochemical survey was successful in confirming the importance of the historical, reconnaissance exploration targets and the 1997 interpretation of the general morphology of the geochemical/geophysical Hwy, Central, East and Rhyolite Zones. While the integrated data base suggests that the zones have an apparent strike length of about 4 km and remain open for expansion to the northwest, southwest and east, the soil geochemistry of the Hwy, Central and East Zones has now been delineated in some detail over a 1.8 km strike length.

The lack of stronger zinc and other element analyses is attributed to the masking affect of the deep overburden cover. The magnitude of the signature is, however, considered significant when referenced to other such environments and their haloing signatures e.g., those associated with important mineralization on the Todd Creek Property (Molloy, 1998) and the Deltaic Grid (Molloy, 1997).

Contouring of the integrated zinc, copper, cadmium and barium soil anomalies (using thresholds of 250, 40, 1 and 250 ppm, Maps 5-8, respectively) reflects element zoning and correlations that are characteristic of important copper and gold mineralization in the Stewart Camp. For example, as outlined by the 400 ppm zinc contour (Map 5), linear to anastomosing zinc zones are found within the previously interpreted Hwy, Central, East and Rhyolite Zones. The contoured zones have strike lengths up to 1.8 km, and apparent strike lengths up to over 3.6 km. The zones also show considerable thickening e.g., near L26N, the 400 ppm zinc contour of the Central Zone is about 250 m wide and averages 477 ppm zinc.

As outlined by the 40 ppm copper soil contour (Map 6), anomalous copper zones have the same morphology and considerable strike extents as the zinc zones. However, the copper zones generally display, as is often the case for soil geochemistry over zoned copper-gold deposits in the Stewart Camp, a flanking relationship to the zinc soil anomalies. The most prominent copper zone is associated with the Rhyolite Zone on the east side of the grid. There, the 40 ppm copper anomaly has an average width of about 250 m (e.g., averaging 72 ppm over 250 m on L18N) and remains open to the east, southeast and northwest.

Barium, as outlined by the 250 ppm contour (Map 8), and cadmium as outlined by the 1 ppm contour (Map 7), generally display the same considerable strike extents as zinc and copper. Barium and cadmium anomalies show some good correlation with zinc but have more specificity and apparent linearity than anomalous zinc. The strongest barium anomaly is located on the eastern edge of the grid on the Rhyolite Zone, where it shows good correlation with copper, cadmium and zinc anomalies. The barium and cadmium expression of the postulated northwest extension of the Rhyolite Zone, as provided by historical surveys, is particularly intriguing in view of the apparent width and strength of the zones (e.g., barium averaging 1082 ppm over about 200 m on the claim line south

TABLE 4
DELTA WEST PROPERTY
1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
598762	L50N 54+75E	30 cm B horz good	o-brn slt 75%, cl 20%, org 5%	good to W CC	bedded mudstn o/c @ 55+35E, sparse ang hetro oxid bx, lim sed frags		272	50	210	0.5
598763	L50N 54+25E	20 cm B horz-ST good	gry-brn slt 70%, cl 15%, org 5% 10% hetro frag sed (ang sh)	good to W CC	NA		238	40	230	0.5
598764	L50N 51+75E	str sed	brn org muck org muck 50%, slt 30%, cl 10%, 10% fi hetro sd	in a low str flow 180 deg	NA		176	38	230	1
598765	L50N 50+75E	15 cm ABC horz poor	brn/bl slt 30%, cl 20%, org 30% 20% hetro frags, sed (mudstn or sh) with Mn on fract; cl-pebs	good to W CC	NA		450	18	780	2.5
598766	L50N 50+20E	25 cm B horz well	buff brn slt 30%, cl 60%, 10% ang oxid sed frags, minor org; cl-pebs	good to W edge of CC	NA		162	29	200	0.5
598767	L50N 49+50E	50 cm-tree B horz well	gry slt 20%, cl 60%, org 10%, 10% ang hem hetro frags (sed?); cl-pebs	good to W edge of CC	NA		160	31	110	<.5
86919	L20, 50+25E	20 cm B horiz-ST good	o-brn slt 45%, sd 45%, 10% hetro frags & min org, mainly tuff	good to E	tuff bx		318	24	210	0.5
86920	L32, 56+25E	25 cm B horiz-ST well	o-brn slt 60%, sd 30%, org 10%, minor hetro frags, slt-pebs incl oxid lim frags; well oxid	good to W edge of CC & deadfall	sparse tuff		448	20	230	2.5

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
86921	L32, 56+00E	25 cm B horiz-tree well	o-brn slt 60%, sd 30%, org 10%, minor hetro frags, slt-pebs incl oxid lim frags; well oxid	good to W edge of CC & deadfall	sparse tuff		390	21	390	2
86922	L32, 55+75E	25 cm B horiz well	brn slt 60%, sd 30%, org 10%, minor hetro frags, slt-pebs incl oxid lim frags; well oxid	good to W	NA		466	23	410	2
86923	L32, 55+50E	25 cm B horiz-tree well	brn slt 70%, sd 20%, minor org	good to W CC	sparse hem bx		172	30	170	0.5
86924	L32, 55+25E	bank	brn slt 70%, sd 20%, minor org	good to W o/c 175 deg/vert	sh o/c, hetro bldrs & oxid bx as 460271		194	41	110	0.5
86925	L32, 54+40E	tree B horiz well	o-brn-red slt 30%, sd 60%, 10% oxid frags, vol & sh, some ??? slt-pebs; well oxid	good to SE CC	hetro ang bldrs, small-lg		466	26	270	0.5
86926	L32, 54+25E	50 cm -tree B horiz well	o-brn slt 60%, sd 30%, 10% hetro frags, sh & vol, slt-pebs; well oxid	fair to W CC	NA		298	41	250	0.5
86927	L32, 54+00E	bank	o/brn-brn slt 60%, sd 30%, 10% hetro frags, sh & vol, slt-pebs; well oxid	good to W CC	hetro flt		218	66	240	0.5
86928	L32, 53+75E	20 cm B horiz-ST	o/brn-brn slt 60%, sd 30%, 10% hetro frags, sh & tuff, slt-pebs; well oxid	good to W CC	tuff bx, micro seds, ang bldrs		328	18	150	0.5
86929	L32, 53+50E	15 cm B horiz-ST well	brn slt 50%, sd 40%, 10% hetro frags, oxid tuff, slt-pebs	?? to SW CC	tuff & oxid tuff		286	17	180	1

Table 4

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
86930	L32, 53+25E	20 cm B horiz-ST well	o-brn slt 70%, sd 20%, 10% ang hetro frags, mainly seds; slt-pebs	CC	sparse hetro frags		382	29	230	<.5
86931	L32, 53+00E	20 cm B horiz-ST well	o-brn slt 70%, sd 20%, 10% ang hetro frags, mainly seds; slt-pebs	CC	sparse hetro frags		238	32	230	0.5
86932	L32, 52+75E	20 cm B horiz well	blk slt 80%, sd 20%,	good to SE CC	sparse hetro		220	26	210	0.5
86933	L32, 52+50E	15 cm B horiz-ST well	o-brn slt 80%, org 10%, 10% hetro frags well oxid	good to E CC	bx tuff		220	24	150	<.5
86934	L32, 52+25E	40 cm B horiz - tree well	o-brn slt 45%, sd 45%, 10% hetro frags, small, ang, well oxid	good to E CC	sparse hetro frags		270	27	220	0.5
86935	L32, 52+00E	15 cm B horiz	o-brn-pk slt 60%, sd 40%, minor hetro frags	good to W CC	hetro frags, some hem		204	14	140	0.5
86936	L32, 51+75E	20 cm B horiz -ST well	brn slt 40%, sd 30%, 30% grav, ang-subrd sed & vol, slt-pebs	good to W CC	hetro pebs		444	18	320	2
86937	L32, 51+50E	15 cm B horiz	brn-pk slt 60%, sd 40%, minor hetro frags vol, slt-pebs	good to W CC	NA		370	21	360	2

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
86938	L32, 51+25E	15 cm B horiz	brn-pk slt 60%, sd 40%, minor hetro frags vol, slt-pebs	good to W CC	NA		272	23	250	<.5
86939	L32, 51+00E	20 cm B horiz -ST well	brn slt 45%, sd 45%, 10% hetro frags	CC	hetro sparse		390	16	280	2
86940	L32, 50+75E	20 cm B horiz well	o-brn slt 40%, sd 40%, cl 20%	good to E CC	NA		408	17	290	0.5
86941	L32, 50+50E	20 cm B horiz well	o-brn slt 40%, sd 40%, cl 20%	good to E CC	NA		262	19	200	0.5
86942	L32, 50+25E	20 cm B horiz	brn-pk slt 70%, sd 20%, 10% org & ang sed, slt-pebs	good to W CC	NA		316	17	150	0.5
86943	L32, 50+00E	20 cm B horiz well	o-brn slt 45%, sd 45%, 10% hetro frags, ang oxid seds, minor vol & minor org	CC at BLine	NA		352	22	320	1
630967	L30N 51+75E	20 cm B horz	o-brn; slt 50%, sd 40%, 10% rd hetro frags	good to N; CC	ang tuff & sed bldr	Fill-in	176	23	100	0.5
630968	L30N 52+25E	25 cm B horz	o-brn; slt 50%, sd 40%, 10% rd hetro sed frags	good to NE; CC	ang sed bldr	Fill-in	200	21	140	<.5
630969	L30N 52+75E	25 cm bank	brn; slt 40%, sd 30%, 10% org, 20% hetro frags of sil, oxid vol, sub-ang, min veins hem/oxid	good to NE; CC	hetro bldrs incl oxid vol		204	65	310	0.5

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
630970	L30N 53+25E	bank transport?	brn; slt 20%, sd 20%, 10% hetro frags	good CC	slt mainly small sed frags, minor vol gouge & ang bx up to 1 m across		230	44	270	0.5
630971	L30N 53+75E	20 cm B horz	brn; slt 50%, sd 45%, 5% rd hetro frags	good CC	sub ang fel vol & bx frags & flt	at rk samp 460251 sil bx	370	36	250	0.5
630972	L30N 54+25E	40 cm B horz	brn; slt 60%, sd 30%, 5% hetro frags	good CC	lg ang bx flt to 1m, with frags to 10 cm	linear valley @ 340 deg, at 54+60E on L31 trends 160 deg thru L30	356	32	260	1
630973	L30N 54+75E	20 cm B horz	brn; slt 85%, sd 5%, 10% frags	good CC	lg ang to sub rd bx, fi, earthy matrix, well sil	linear valley @ 340 deg, at 54+60E on L31 trends 160 deg thru L30	422	35	190	3
630974	L30N 55+25E	20 cm B horz?	gry-blk; slt 60%, sd 25%, 15% cl	good to SW CC	slaty flt		342	50	380	5
630975	L30N 56+00E	15 cm B horz	gry-blk; slt 65%, sd 25%, 5% org, 5% hetro frags	good to SW CC	NA		266	16	160	2
630976	L30N 56+25E	bank B horz?	gry-blk; slt 50%, sd 45%, 5% hetro frags	good to SW CC	hetro flt	fill-in	244	38	340	2.5
630977	L30N 56+50E	bank B horz?	brn slt 50%, sd 45%, 5% hetro frags	good to SW CC	hetro flt	fill-in	178	34	230	1
630978	L30N 57+00E	15 cm AB horz	blk slt 70%, cl 20%, 10% org	fair CC	NA	fill-in	72	52	140	1
630979	L30N 57+50E	20 cm AB horz well	gry-brn slt 60%, sd 30%, 5% org, 5% ang frags some vol, shale	good to SW CC	vol & shale flt	fill-in	144	66	80	0.5

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
630980	L30N 58+50E	12 cm B horz	brn sd 60%, slt 25%, 15% hetro frags vol, shale	good to SW CC	hem bx with fel frags	fill-in	390	43	330	0.5
630981	L30N 59+00E	root B horiz	brn-o/brn sd 45%, slt 45%, 10% hetro frags	good to SW CC	hetro flt	fill-in	288	31	210	<.5
630982	L30N 59+50E	root	brn-o/brn sd 45%, slt 45%, 10% shale frags	good to SW CC	shale flt	fill-in	258	92	180	<.5
630983	L30N 60+00E	25 cm B horiz	yel-brn slt 80%, sd 15%, 5% hetro frags	good to SW CC	ang flt of fel vol & sil tuff	fill-in	188	20	110	0.5
630984	L31N 54+75E	20 cm B horiz	brn slt 45%, sd 45%, 10% hetro frags	good to SW	hetro frags	linear valley @ 54+60E, trends 340 deg	252	52	240	0.5
630985	L31N 54+50E	Bank B horiz	o-brn slt 30%, sd 60%, 5% org 5% hetro frags	good to SW	lg ang tuff bx frags	S side of valley	290	41	260	1
630986	L31N 54+25E	25 cm B horiz	o-brn slt 30%, sd 60%, 5% org 5% hetro frags	good to SW CC	lg ang tuff bx frags		358	17	190	<.5
630987	L31N 54+00E	15 cm B horiz	o-brn slt 70%, cl 20%, 10% hetro frags, well oxid	good to SW CC	fair abund mod oxid bx		270	16	180	1
630988	L31N 53+75E	25 cm B horiz well	o-brn slt 60%, cl 30%, 10% oxid ang frags	good to SW CC	fair abund mod oxid bx		456	20	330	1.5
630989	L31N 53+50E	tree root	o-brn slt 60%, cl 30%, 10% oxid ang frags	good to SW CC	fair abund mod oxid bx		388	26	190	1.5

Table 4

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
630990	L31N 53+25E	bank	o-brn slt 60%, cl 30%, 10% oxid ang frags	good to SW CC	fair abund mod oxid bx		196	18	130	0.5
630991	L31N 53+00E	25 cm B horiz	o-brn slt 40%, sd 50%, 10% hetro pebs	good to SW CC	bx flt to 1 m with vning of carb, qtz fine stwk see sample 460253		242	36	170	<.5
630992	L31N 47+50E	15 cm B horiz	gry-blk slt 30%, sd 60%, 5% org, 5% ang sed frags	fair	tag alders		108	54	130	<.5
630993	L31N 47+75E	25 cm B horiz	gry-blk slt 30%, sd 60%, 5% org, 5% ang sed frags	fair	tag alders		124	59	150	<.5
630994	L31N 48+00E	20 cm B horiz	gry-blk slt 40%, sd 35%, 20% cl, 5% org & shale pebs, cl-fi	fair	tag alders		194	66	170	0.5
630995	L31N 48+25E	30 cm B horiz fair	gry-brn slt 60%, sd 35%, 5% ang sed frags	good to W	tag alders & poplar		136	55	170	<.5
630996	L31N 48+50E	30 cm B horiz	brn sd 80%, 20% hetro ang oxid, grn & rd pebs	good to W CC	fault @ 48+40E trends 330 deg		164	52	160	0.5
630997	L31N 48+75E	25 cm B horiz well	o-brn slt 60%, sd 30%, 10% hetro ang & oxid frags	good to W CC	hetro bldr		366	19	300	1.5
630998	L31N 49+05E	bank, 25 cm B horiz well	blk slt 60%, sd 30%, 10% hetro ang & oxid frags	good to W CC	rd sed & vol bldr		160	61	180	0.5
630999	L31N 49+25E	25 cm B horiz well	o-brn slt 60%, sd 10%, 30% hetro vol & sed frags	good to W CC	hetro bldr increase in tuff		278	18	190	<.5

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
631000	L31N 49+50E	20 cm B horiz well	o-brn slt 60%, sd 10%, 30% hetro vol & sed frags well oxid	good to W CC	NA		370	22	180	0.5
600381	L31N 49+75E	25 cm B horiz well	o-brn slt 70%, sd 20%, 30% hetro & sed frags, minor tuff	good to W CC	sed & some vol		380	24	240	0.5
600382	L31N 50+00E	30 cm B horiz	o-brn slt 70%, sd 20%, 30% hetro & sed frags, minor tuff	good to W CC	sed & some vol		264	22	260	0.5
600383	L31N 50+25E	25 cm B horiz	o-brn slt 40%, sd 50%, 10% org & hetro frags	good to W CC	sst & frags		222	31	210	0.5
600384	L31N 50+50E	20 cm B horiz well	o-brn slt 60%, sd 30%, 10% hetro frags, slt-pebs	good to W CC	hetro frags (tuff), minor seds		288	26	200	1.5
600385	L31N 50+75E	25 cm B horiz	yel-o/brn slt 60%, sd 30%, 10% hetro frags, slt-pebs	good to W CC	NA		278	28	210	1
600386	L31N 51+00E	20 cm B horiz well	o-brn slt 60%, sd 30%, 10% oxid, ang-rd frags of sed & vol	good to W CC	NA		218	13	280	2
600387	L31N 51+25E	20 cm bank	o-brn slt 70%, sd 20%, 10% org & pebs	good to W CC	hetro frags 50% sed, 50% tuff		428	18	200	0.5
600388	L31N 51+50E	25 cm bank	o-brn slt 70%, sd 20%, 10% pebs	good to W CC	hetro frags 50% sed, 50% tuff		418	24	180	0.5

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
600389	L31N 51+75E	20 cm bank	o-pk/brn slt 45%, sd 45%, 10% minor org & hetro well oxid frags	good to E CC	sparse hetro frags sltstn & vol		318	27	140	<.5
600390	L31N 52+00E	25 cm B horiz	o-brn slt 40%, sd 40%, cl 10%, 10% grn-gry hetro frags, oxid vol & seds	good to E CC	some hetro frags		264	25	110	0.5
600391	L31N 52+25E	20 cm B horiz	o-brn slt 45%, sd 45%, 10% oxid hetro frags, mainly seds	good to E CC	NA		396	24	150	0.5
600392	L31N 52+50E	25-30 cm B horiz	o-brn slt 70%, sd 20%, 10% oxid vol & sed frags	good to E CC	NA		252	25	120	0.5
600393	L31N 52+75E	25 cm B horiz	o-brn slt 70%, sd 20%, 10% ang-rd sed & tuff frags	good to W CC	57+70 E linear valley trends @ 330-335 deg		352	18	210	0.5
600394	L31N 58+25E	35 cm B horiz well	brn slt 75%, sd 15%, 10% org & hetro frags, minor hem tuff	good to W burn & deadfall	NA		382	46	270	2
600395	L31N 58+00E	20 cm B horiz	brn slt 75%, sd 15%, 10% org & hetro frags, minor hem tuff	good to W burn & deadfall	hetro tuff, vol & shale		366	21	360	1.5
600396	L31N 57+75E	20 cm B horiz	o-brn slt 65%, sd 30%, 5% hetro frags & shale, minor oxid vol	good to W burn & deadfall	NA		668	37	420	3.5
600397	L31N 57+50E	20 cm B horiz	o-brn slt 65%, sd 30%, 5% hetro frags & shale, minor oxid vol	good to W burn & deadfall	ang chl tuff flt		224	31	160	0.5

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
600398	L31N 57+25E	25 cm AB horiz	gry-blk slt 40%, sd 20%, cl 30%, 10% org & minor ang sed frags	good to E CC	shale bldrs, oxid		252	27	230	1.5
600399	L31N 57+00E	15 cm B horiz well	o-brn slt 65%, sd 30%, 5% hetro frags, mainly shale some minor ?	good to W CC	ang, bx, hem flt.		228	16	210	0.5
600400	L31N 56+75E	20 cm B horiz	o-brn slt 45%, sd 45%, 10% hetro frags, well oxid	good to W CC	dirty tuff, some hem		224	21	180	0.5
598938	L31N 56+50E	20 cm B horiz	o-brn slt 45%, sd 45%, 10% hetro frags	good to W CC	tuff bx flt, sub ang with dk matrix; 30% with xtals to 1 m		384	30	200	0.5
598939	L31N 56+25E	25 cm C horiz well oxid	brn slt 60%, sd 35%, 5% frags oxid tuff, shale	good to W CC	vol & micro tuff bx		544	40	360	0.5
598940	L31N 56+00E	root	brn-blk slt 60%, sd 30%, 10% hetro frags	good to W CC	tuff flt		422	48	310	1.5
598941	L31N 55+75E	20 cm B horiz well	brn slt 45%, sd 45%, 10% hetro frags, ang tuff & micro bx & org	good to W CC	hetro frags, micro bx, tuff, seds		456	25	480	2
598942	L31N 55+50E	18 cm B horiz	o-brn slt 40%, sd 50%, 5% org & shale	good to W CC	grey tuff		346	31	380	1.5
598943	L31N 55+25E	bank	brn slt 30%, sd 60%, 10% org & hetro frags	good to W CC	rd & sub rd hetro frags, vol, tuff & bx		212	51	160	0.5
598944	L31N 55+00E	25 cm AB horiz	gry-brn slt 60%, org 40%	poor tags-str bed flows 330 deg	NA		138	42	240	1.5

Table 4

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
598945	L28N 59+75E	25 cm B horiz well	o-brn slt 45%, sd 45%, 10% hetro frags, well oxid	good to E edge CC	lg sub rd bx bldr minor rd sed		264	19	230	0.5
598946	L28N 59+50E	20 cm B horiz well	o-brn cl 30%, slt 50%, sd 10%, 10% hetro frags, mainly chl mv, well oxid	good to W CC	tuff bldr, hem, sil, bx see rock samp 460254		176	27	220	<.5
598947	L28N 59+25E	25 cm B horiz well	o-brn cl 30%, slt 50%, sd 10%, 10% hetro frags, mainly chl mv, well oxid	good to SW CC			146	27	160	<.5
598948	L28N 59+00E	25 cm B horiz well	o-brn slt 60%, 35% sd, org 5%,	good to W CC	sil or rhy frags		274	50	260	1
598949	L28N 58+75E	25 cm B horiz	brn slt 70%, 10% sd, org 10%, 10% shale frags	good to W CC	NA		188	29	210	0.5
598950	L28N 58+50E	35 cm AB horiz	gry-blk cl 25%, slt 75%	good to W CC	NA		150	47	230	0.5
598951	L28N 58+25E	20 cm AB horiz	gry-blk slt 40%, sd 50%, 10% slt-fi org	good to W CC	NA		174	52	150	1
598952	L28N 58+00E	25 cm B horiz well	gry-blk cl 30%, slt 60%, minor hetro frags cl-pebs	good to W CC	NA		202	41	410	2.5
598953	L28N 57+75E	20 cm AB horiz	o/brn-blk slt 50%, org 50%, minor frags & slt	good to W CC	oxid tuff bx		50	40	140	0.5
598954	L28N 57+50E	tree root B horiz well	brn slt 60%, sd 30%, minor org & frags incl slt	good to W CC	hetro sed & vol frags		120	39	140	<.5

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
598955	L28N 57+25E	25 cm B horiz well	brn-o/brn slt 60%, sd 30%, org 5%, 5% cl	good to W CC	NA		320	23	200	0.5
598956	L28N 57+00E	tree root B horiz	brn slt 20%, sd 70%, 10% hetro frags, fi-co vol	good to W CC	NA		136	39	110	<.5
598957	L28N 56+75E	35 cm AB horiz fair-good	brn cl 30%, slt 60%, 10% org & frags bx tuff	good to W CC	hetro frags		386	67	220	3
598958	L28N 56+50E	20 cm bank	brn slt 45%, sd 45%, 10% ang shale & oxid pebs	good to W CC	NA		304	111	140	<.5
598959	L28N 56+25E	30 cm B horiz well	gry-blk slt 65%, sd 35%, 10% org & fi sed	good to W CC	NA		318	66	210	0.5
86801	L28N 56+00E	25 cm B horiz well	brn slt 70%, sd 25%, 10% frags, mainly rd-ang tuff, minor shale	good to W CC	lg bx bldrs, lim, ang-sub rd		358	39	190	1.5
86802	L28N 55+75E	30 cm B horiz very well	brn slt 60%, sd 25%, org 5%, 10% oxid hetro frags, shale & minor tuff	good to W CC	sparse incl minor rhy flt		538	30	440	5.5
86803	L28N 55+50E	bank B horiz well	brn slt 45%, sd 45%, 10% hetro frags, slt-co vol minor shale	good to W CC	NA		236	39	230	1.5
86804	L28N 55+25E	30 cm B horiz well	o-brn slt 70%, sd 20%, 10% ang-sub rd tuff frags	good to W CC	minor frags hem tuff		178	31	120	0.5
86805	L28N 55+00E	30 cm B horiz well	brn-o/brn slt 40%, sd 40%, 10% oxid vol pebs	good to W CC	tuff bx, ubiquitous oxid, carb vning, hem, frags to 30 cm. see sample 460255		294	30	180	1

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
86806	L28N 54+75E	25 cm B horiz well	o-brn slt 45%, sd 45%, 10% hetro frags, slt-pebs	good to W CC	hetro bldrs - tuff bx- oxid vol		584	30	360	3
86807	L28N 54+50E	35 cm B horiz well	o-brn slt 90%, 10% hetro frags sh & tuff, slt-pebs, well oxid	good to W CC	NA		182	32	130	0.5
86808	L28N 54+25E	35 cm B horiz poor-well	brn slt 90%, 10% hetro frags sh & tuff, slt-pebs, well oxid	good to E	NA		350	19	370	3
86809	L28N 54+00E	bank	brn slt 90%, pebs 5%, 10% hetro frags, sed & tuff, well oxid	good to E	NA		420	21	300	2
86810	L28N 53+75E	20 cm B horiz	brn slt 70%, sd 20%, 10% hetro frags, sed & vol, slt-pebs	good to W		near creek	172	50	220	0.5
86811	L28N 53+50E	root	brn slt 60%, sd 30%, 10% oxid seds	E to creek	shale well bedded 170/15W well lim, hem	near creek	314	63	180	<.5
86812	L28N 47+75E	35 cm B horiz well	o-brn slt 70%, sd 20%, 10% ang sed frags, slt-co	good to W tag alders	NA		236	65	210	1.5
86813	L28N 48+00E	25 cm B horiz well	brn slt 45%, sd 45%, 10% ang hetro frags, mainly shale	good to W start CC	NA		340	29	270	1
86814	L28N 48+25E	30 cm AB horiz poor	gry-brn slt 70%, sd 20%, 10% slt-fi org	good to W CC	NA		348	32	410	3

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
86815	L28N 48+50E	25 cm B horiz	pk-o/brn slt 50%, cl 20%, sd 20%, 10% hetro frags, some oxid, mainly seds; well oxid	good to W CC	NA		558	22	400	4.5
86816	L28N 48+85E	15 cm B horiz well	brn-gry slt 45%, sd 45%, 10% org	good to W CC	seds & hetro frags		302	30	290	1
86817	L28N 49+00E	25 cm B horiz well	brn slt 45%, sd 45%, 10% hetro frags, minor org, seds & vol pebs, slt-pebs	good to W CC	hetro bldrs of tuff & seds		394	27	220	0.5
86818	L28, 49+25E	25 cm B horiz good	brn slt 45%, sd 45%, 10% hetro frags incl sed, vol & ang sh frags	good to W CC	shale flt, min vol		210	24	230	1.5
86819	L28, 49+50E	25 cm B horiz good	o-brn slt 45%, sd 45%, 10% hetro frags, mainly seds, slt-pebs	good to W CC	hetro bldr		240	27	170	<.5
86820	L28, 49+75E	25 cm B horiz good	brn slt 45%, sd 45%, 10% hetro frags, mainly seds, slt-pebs	good to W CC	hetro bldr sub rd bx & sed		228	21	230	0.5
86821	L28, 50+00E	25 cm B horiz-ST good	brn slt 60%, sd 30%, 10% org & hetro frags, slt-pebs	good to E CC	mainly ang seds		328	20	380	1.5
86822	L28, 50+25E	25 cm B horiz-ST good	brn slt 60%, sd 30%, 10% org & hetro frags, slt-pebs	good to W CC	NA		198	21	330	1.5

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
86823	L28, 50+50E	25 cm B horiz-ST good	o-brn slt 60%, sd 30%, 10% org & hetro frags, slt-pebs	good to W CC	sm hetro pebs		384	19	230	<.5
86824	L28, 50+75E	25 cm B horiz good	o-brn cl 20%, slt 40%, sd 30%, 10% hetro pebs & org	good to E CC	sparse bx		206	18	160	<.5
86825	L28, 51+00E	25 cm B horiz good	o-brn slt 45%, sd 45%, 10% hetro frags mainly seds, well oxid	good to W CC	hetro bldrs		260	27	180	<.5
86826	L28, 51+25E	25 cm B horiz good	o-brn slt 45%, sd 45%, 10% hetro frags mainly seds	good to W CC	minor hetro flt		206	16	230	0.5
86827	L28, 51+50E	30 cm B horiz-ST	o-brn slt 30%, sd 60%, 10% hetro frags; 50% seds, 50% micro tuff	good to E CC	bx - increase in frags to 5 cm		196	15	220	<.5
86828	L28, 51+75E	20 cm bank	o-brn slt 70%, sd 20%, 10% hetro frags; tuff, minor org	good to E CC	hetro bx & sh bx, frags size increase, minor bx tuff		306	28	200	0.5
86829	L28, 52+00E	25 cm B horiz-ST	brn slt 45%, sd 45%, 10% hetro frags, slt-pebs	good to E CC	NA		210	33	160	0.5
86830	L28, 52+25E	20 cm AB horiz good	blk-o/brn-gry slt 70%, sd 20%, 10% org & roots, slt-fi	fair to E CC	NA		70	12	90	0.5
86831	L28, 52+50E	35 cm B horiz good	blk-o/brn-gry slt 70%, sd 20%, 10% org & roots, slt-fi	fair to SE CC	NA		146	14	180	0.5
86832	L28, 52+75E	40 cm B horiz-ST	brn slt 40%, sd 40%, 20% grav	good to W CC	NA		412	21	270	2.5

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
86833	L28, 53+00E	25 cm B horiz root	brn slt 40%, sd 40%, 20% grav	good to W CC	ang tuff bldrs as rk samp 460258		226	24	290	0.5
86834	L28, 53+25E	35 cm B horiz-ST good	o-brn slt 40%, sd 40%, 20% grav, hetro frags-oxid bx	good to W CC	abundant bx with frags to 1 cm		262	32	260	<.5
86835	L24, 48+50E	35 cm B horiz-ST good	brn slt 40%, sd 40%, 20% grav & well oxid hetro pebs, slt-pebs	good to W tag alders	NA		418	47	240	3.5
86836	L24, 48+75E	35 cm B horiz very well-ST	brn slt 40%, sd 40%, 20% grav & hetro pebs with with lg ang tuff; slt-pebs	good to W tag alders	NA		298	46	200	3
86837	L24, 49+00E	20 cm AB horiz-ST	blk-brn slt 40%, sd 40%, 20% gr pebs, minor sd & org, tuff in hole	good to W CC	NA		378	37	160	2
86838	L24, 49+25E	20 cm B horiz-ST good	brn slt 45%, sd 45%, 20% ang-sub rd tuff frags, lim slt -pebs	good to W CC	abund tuff & co bx, ang to sub rd		470	38	250	2
86839	L24, 49+50E	25 cm B horiz-ST	brn cl 20%, slt 35%, sd 35%, 10% hetro frags, ang seds & vol & lg bx bldr	good to W CC	bx tuff flt		284	40	160	<.5
86840	L24, 49+75E	35 cm B horiz good	brn cl 20%, slt 35%, sd 35%, 10% hetro frags, ang seds & vol & lg bx bldr	good to W CC	bx tuff flt		392	21	260	0.5
86841	L24, 50+00E	30 cm B horiz-ST good	yel/brn-o/brn slt 45%, sd 45%, 10% hetro frags, well oxid mat, mainly tuff & min org	good to W CC	bx tuff flt & seds, well oxid & carb stwk		374	26	160	0.5

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
86842	L24, 50+25E	30 cm B horiz-ST good	brn slt 45%, sd 45%, 10% hetro frags, well oxid mat, mainly tuff & min org	good to W CC	bx tuff flt & seds, well oxid & carb stwk		546	18	290	2
86843	L24, 50+50E	30 cm B horiz-ST good	pk-brn-o slt 45%, sd 45%, 10% hetro frags & org; tuff & seds; slt-pebs; well oxid	good to W CC	sparse tuff		296	21	210	<.5
86844	L24, 50+75E	20 cm B horiz-ST good	brn slt 45%, sd 45%, 10% hetro frags & org; tuff & seds; well oxid	good to W CC	sparse hetro flt & minor seds		274	17	200	<.5
86845	L24, 51+00E	15 cm B horiz-ST good	o-brn-pk slt 40%, sd 50%, 10% hetro frags, oxid vol & tuff; well oxid	good to W CC	sparse hetro flt		362	29	190	<.5
86846	L24, 51+25E	20 cm B horiz-ST good	brn cl 20%, slt 40%, sd 30%, 10% ang hetro frags & org; well oxid	good to W CC	sparse hetro flt		304	25	350	<.5
86847	L24, 51+50E	20 cm B horiz-ST good	brn cl 20%, slt 40%, sd 30%, 10% ang hetro frags, mainly seds well oxid	good to W CC	sparse hetro flt		342	18	360	<.5
86848	L24, 51+75E	20 cm B horiz-ST good	brn cl 20%, slt 30%, sd 35%, 15% oxid ang-rd hetro frags, cl-pebs	good to W CC	more hem & qv in bx		316	21	210	<.5
86849	L24, 52+00E	25 cm B horiz-ST good	brn slt 45%, sd 45%, 10% org & hetro frags-tuff, seds, ang-sub rd, slt-pebs	good to W CC	hetro tuff bx, sed		398	19	320	0.5

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
86850	L24, 52+25E	20 cm B horiz well	brn cl 10%, slt 40%, sd 40%, minor ang tuff, hem; cl-pebs	good to W CC	NA		320	16	250	0.5
86851	L24, 52+50E	25 cm B horiz good	o/brn-pk slt 60%, sd 30%, 10% hetro frags, sed-vol well oxid	good to W CC	hem seds		282	22	160	<.5
86852	L24, 52+75E	25 cm B horiz-ST good	brn slt 45%, sd 45%, 10% ang frags mainly sh, slt-pebs	good to W CC	sh sed @ 336@85 deg W well fractt		346	32	320	0.5
86853	L24, 53+00E	25 cm B horiz-ST good	brn sd 60%, grav 40%, ang sh	good to NE CC	sh o/c to S & lg-subrd bx flt		244	67	370	<.5
86854	L24, 53+25E	20 cm AB horiz	gry-brn sd 55%, grav 40%, org 5%	good to NW CC	rd bx & seds		250	50	260	0.5
86855	L24, 53+50E	50 cm B horiz bank-well	o-brn slt 40%, sd 50%, 10% hetro frags,	good to W CC	vol-sed pebs		306	42	140	<.5
86856	L24, 53+75E	20 cm B horiz-ST	brn-o/brn slt 45%, sd 45%, 10% hetro frags, vol & org	good to W CC	tuff bx bldr, rd-sub ang, some seds		492	29	260	1
86857	L24, 59+25E	20 cm B horiz good	brn cl 20%, slt, 40%, sd 30%, 10% hetro frags & org, frags sed & org, cl-pebs	good to E CC edge	NA		162	21	190	0.5
86858	L24, 59+00E	20 cm B horiz good	brn cl 20%, slt, 40%, sd 30%, 10% hetro frags & org, frags sed & org, cl-pebs	good to E CC	NA		224	36	260	<.5

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
86859	L24, 58+75E	20 cm B horiz well	brn cl 20%, slt, 40%, sd 30%, 10% hetro frags & min org, ang frags sed & tuff	good to W CC	NA		288	41	130	<.5
86860	L24, 58+50E	20 cm B horiz-ST fair	brn slt 45%, sd 45%, 10% hetro frags & minor org, sed & tuff frags	good to W CC	rd bx & tuff bldr		422	21	360	<.5
86861	L24, 58+25E	20 cm B horiz-ST fair	gry-blk slt 45%, sd 45%, 10% hetro frags, ang bx, slt-pebs, min org	good to W CC	sub rd hetro tuff bx		418	26	240	0.5
86868	L24, 58+00E	25 cm AB horiz-ST fair	gry-blk slt 70%, sd 15%, 15% org, ang frags, well oxid slt-pebs	good to W CC	NA		456	24	440	2.5
86869	L24, 57+75E	20 cm AB horiz-ST fair	gry-blk slt 70%, sd 15%, 15% org, ang frags, well oxid slt-pebs	good to W CC	NA		446	24	460	2
86870	L24, 57+50E	20 cm AB horiz-ST fair	gry-blk cl 30%, slt 30%, sd 30%, 10% hetro frags, ang pebs of seds & tuff; cl-pebs	good to W CC	NA		434	49	390	2
86871	L24,57+25E	root B horiz	brn cl 45%, slt 45%, sd 10%, cl-co	good to W CC	NA		146	53	110	<.5
86872	L24, 57+00E	25 cm AB horiz-ST fair	brn slt 30%, sd 60%, 10% ang-rd hetro frags, 50% oxid with lim, hem & ?	good to W CC	seds, sh		208	75	230	<.5
86873	L24, 56+75E	bank B horiz good	brn slt 45%, sd 45%, 10% org, min hetro frags, rd sh & tuff	good to W CC	hetro bldr		244	59	230	<.5

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
86874	L24, 56+50E	bank B horiz good	yel-brn cl 10%, slt 40%, sd 40%, org 5%, 5% hetro frags	good to W CC	NA		316	48	220	0.5
86875	L24, 56+25E	25 cm B horiz-ST good	brn slt 45%, sd 45%, org 5%, 5% hetro frags of ang sh & sub rd tuff, well oxid	good to W	NA		244	34	160	<.5
86876	L24, 56+00E	25 cm A horiz poor	brn-o org, sh & roots	good to W CC	NA		148	111	230	1
86877	L24, 55+75E	25 cm B horiz-ST good	o-brn slt 45%, sd 45%, 10% hetro frags, slt-pebs well oxid	good to W CC	hetro bldrs		222	34	170	0.5
86878	L24, 55+50E	25 cm B horiz-ST good	o-brn slt 45%, sd 45%, 10% hetro frags, slt-pebs	good to W CC	NA		422	23	430	3.5
86879	L24, 55+25E	25 cm B horiz good	yel/brn-o/brn slt 30%, sd 30%, cl 30%, 10% hetro oxid frags, cl-pebs well oxid	good to W CC	NA		200	25	220	0.5
86880	L24, 54+95E	25 cm B horiz good	or-brn cl 30%, slt 30%, sd 30%, 10% org & hetro frags, small & rd, well oxid; cl-co	CC	NA		178	29	160	0.5
86881	L24, 54+75E	20 cm B horiz good	o/brn-yel/brn slt 60%, sd 30%, 10% hetro frags & orgs, slt-co well oxid pebs	CC	NA		332	29	160	<.5
86882	L24, 54+50E	25 cm B horiz-ST good	o/brn-yel/brn slt 60%, sd 30%, 10% hetro frags & orgs, slt-co well oxid pebs	good to W CC	sil, hem vuggy tuff, rhy; sh o/c in vicinity		310	26	160	<.5

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
86883	L24, 54+25E	15 cm B horiz-ST good	org/brn slt 45%, sd 45%, 10% ang frags; slt-co	good to W CC	sh o/c		280	19	170	0.5
86884	L24, 54+00E	20 cm B horiz good	yel/brn cl 30%, slt 30%, sd 30%, 10% hetro frags; cl-pebs	good to W CC	ang sed flt, rd bx		190	47	160	0.5
86885	L20, 48+75E	25 cm B horiz well	brn slt 45%, sd 45%, 10% hetro frags of micro tuff & seds, slt-pebs	good to W	NA	rd at 48+60E	394	15	420	4
86886	L20, 48+95E	25 cm B horiz good	brn-yel/pk slt 45%, sd 45%, org 5%, 5% hetro frags of micro tuff & seds, slt-pebs	good to E CC	ang micro bx with ?		354	23	180	2
86887	L20, 49+25E	30 cm AB horiz good	gry-blk slt 70%, sd 20%, 10% org & micro hetro frags	good to E CC	NA		306	22	460	2.5
86888	L20, 49+50E	30 cm B horiz-ST	brn slt 45%, sd 40%, org 5%, 10% hetro ang frags of seds & tuff, slt-pebs	good to W CC	NA		334	24	210	1
86889	L20, 49+75E	25 cm B horiz-ST good	brn cl 10%, slt 40%, sd 40%, 10% ang hetro frags, ~~slt-pebs~~	good to E CC	rd tuff, sed & bx flt		450	20	360	1.5
86890	L20, 50+00E	20 cm B horiz good	o-brn slt 70%, sd 20%, 10% ang, oxid hetro frags of seds, tuff & sh; oxid, lim, hem	good to W CC	hetro bldrs		246	19	230	0.5
86891	L20, 58+50E	15 cm B horiz-ST	yel-brn slt 60%, sd 30%, 10% hetro frags of oxid sh, slt-pebs	good to E CC	sh bldrs, min tuff sh o/c @ 320 deg/vert		212	48	170	<.5

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
86892	L20, 58+25E	20 cm B horiz good	yel-brn slt 45%, sd 45%, 10% min org & ang sh well	good to E CC	sparse tuff & sh		274	29	140	<.5
86893	L20, 58+00E	10 cm B horiz poor	o-brn slt 60%, sd 30%, org 5%, 5% ang frags mainly sh	good to W CC	hetro bldr sh o/c @ 310 deg/vert @ 57+95E		204	14	110	0.5
86894	L20, 57+85E	root B horiz good	o-brn slt 70%, sd 20%, '10% org & hetro frags, well oxid	good to W CC	sh, some tuff		304	33	160	<.5
86895	L20, 57+55E	20 cm B horiz bank	o-brn slt 70%, sd 20%, 10% org & hetro frags, well oxid	good to W CC	sh o/c 15 m to S		288	42	140	<.5
86896	L20, 57+00E	20 cm B horiz good	o-brn slt 70%, sd 20%, 10% org & hetro frags, well oxid	good to W CC	NA		448	26	210	<.5
86897	L20, 56+75E	20 cm B horiz bank	brn slt 80%, sd 10%, 10% hetro frags, min org; slt-pebs	good to W CC	oxid sh & rd tuff		410	23	250	0.5
86898	L20, 56+50E	20 cm B horiz good	o-brn slt 60%, sd 30%, 10% hetro frags, min org; slt-pebs; well oxid	good to W CC	hetro bldr		324	25	180	<.5
86899	L20, 56+25E	20 cm B horiz good	brn slt 40%, sd 50%, 10% hetro frags,oxid sh & tuff slt-pebs	good to E CC	NA		324	19	190	<.5
86900	L20, 56+00E	25 cm B horiz good	o-brn slt 60%, sd 30%, 10% hetro frags, ang sh & well oxid vol	good to W CC	hetro bldr		412	25	180	<.5

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
86901	L20, 55+75E	25 cm B horiz-ST good	o-brn slt 60%, sd 30%, 10% hetro frags, sub-ang sh & well oxid vol	good to W CC	hetro bldr		354	23	210	0.5
86902	L20, 55+50E	25 cm B horiz good	brn slt 70%, sd 20%, 10% hetro frags; slt-pebs	good to W CC	tuff, some seds		250	29	210	1
86903	L20, 55+25E	25 cm B horiz good	o/brn slt 70%, sd 20%, 10% hetro frags; slt-pebs	good to W CC	hetro tuff		252	20	250	1.5
86904	L20, 55+00E	20 cm B horiz-ST good	brn slt 40%, sd 50%, 10% hetro frags, ang seds & hem tuff	good to W CC	fi tuff, some hem		374	24	210	1
86905	L20, 54+75E	15 cm B horiz bank	o/brn slt 80%, sd 20%, min frags & org; slt-fi well	good to W CC	micro tuff, sil		134	34	120	<.5
86906	L20, 54+00E	30 cm AB horiz good	brn-blk org 30%, slt 50%, cl 10%, 10% hetro frags, ang sh & well oxid vol	good to W CC	NA		378	18	350	17.5
86907	L20, 53+75E	20 cm B horiz-ST good	o-brn cl 10%, slt 40%, sd 40%, 10% org & hetro frags, oxid & ang; cl-co	good to W CC	sparse tuff		256	14	340	3.5
86908	L20, 53+50E	15 cm B horiz-ST fair	brn-o slt 33%, sd 33%, 33% grav, hetro pebs- micro tuff & seds	good to W CC	hetro bldrs & pebs		338	21	170	1.5
86909	L20, 53+25E	25 cm B horiz-ST good	brn-o slt 33%, sd 33%, 33% grav, hetro pebs- micro tuff & seds	good to E CC	hetro tuff in sample hole & area		288	13	160	1.5

1998 SOIL SAMPLE DESCRIPTIONS

SAMPLE NO.	LOCATION	DEPTH HORIZON DEVELOPMENT	COLOUR; COMPOSITION ALTERATION	DRAINAGE & DIRECTION; VEGETATION	GEOLOGY	COMMENTS	Zn ppm	Cu ppm	Ba ppm	Cd ppm
86910	L20, 53+00E	15 cm B horiz-ST good	o/brn-pk slt 60%, sd 30%, 10% hetro frags of tuff & seds, frags well oxid	good to W CC	hetro tuff & seds, mainly hem tuff		250	18	120	<.5
86911	L20, 52+80E	20 cm B horiz-bank good	brn slt 70%, sd 20%, 10% org & hetro frags	good to W CC	hetro frags		186	62	190	<.5
86912	L20, 52+00E	20 cm B horiz good	brn-o slt 33%, sd 33%, 33% grav, hetro pebs- tuff, min sh; well oxid	CC	mainly tuff		264	27	130	<.5
86913	L20, 51+75E	20 cm B horiz-ST good	o-brn slt 30%, sd 60%, 10% hetro pebs, well oxid, hem tuff, some ang sh	good to E CC	mainly tuff, min sh		174	18	110	0.5
86914	L20, 51+50E	25 cm B horiz-ST good	o-brn slt 30%, sd 60%, 10% hetro pebs, well oxid, hem tuff, some ang sh	good to W CC	mainly tuff, min sh		172	18	140	0.5
86915	L20, 51+25E	25 cm B horiz-ST good	o-brn slt 30%, sd 60%, 10% hetro pebs, well oxid, hem tuff, some ang sh	good to W CC	mainly tuff, min sh		310	18	220	1
86916	L20, 51+00E	20 cm B horiz-ST good	pk-brn slt 45%, sd 45%, 10% co hetro frags, more tuff then seds	good to W CC	tuff & seds		348	22	370	0.5
86917	L20, 50+75E	20 cm B horiz-ST good	o-brn slt 60%, sd 30%, 10% hetro frags & org; slt-pebs	good to W CC	sub-rd tuff & bx		140	52	120	<.5
86918	L20, 50+50E	20 cm B horiz-ST good	brn slt 60%, sd 30%, 10% hetro frags & more org; slt-pebs	good to W CC	tuff bldrs		422	21	270	1

of L50N), and their correlation with zinc and some copper values. As indicated by the good correlation of zinc with barium and by the flanking copper association, the apparent northwestern extension of the Hwy Zone is also a very interesting follow-up target.

As outlined to date, the strongest cadmium soil anomaly is associated with the Central Zone between L24N and L31N. There, the interpreted cadmium soil anomaly is up to 400 m in width, shows good correlation with the strongest part of the Central Zone zinc anomaly, has some direct barium association and has a classical flanking copper association. Immediate drill targets are delineated by the wide, strong IP chargeability anomaly associated with the geochemical anomalies on L26N. The 1997 reconnaissance IP survey was not carried out further to the northwest, but based on the soil geochemistry, the target obviously continues beyond L30N.

Only the initial 1997 soil samples were analyzed for gold and although most did not have any significant gold contents, weak gold values ranging up to 30 ppb were returned from samples on L18N, L22N and L30N, near the originally interpreted east boundary of the Central Zone. The wide IP chargeability and associated zinc and cadmium anomalies on L26N offer a large drill target. Moreover, based on geochemical and geophysical criteria, the eastern section of the Central Zone on most lines is deemed to offer high priority drill targets, including the specific HLEM geophysical anomaly on L30N discussed below.

The Hwy Zone has a strong, anomalous zinc soil signature (soil values up to 800 ppm zinc, with correlating barium, cadmium and silver anomalies), and a flanking copper association on its west side. At L14N, the zone trends northwest on the west side of the highway and at L28N, it swings back across the highway. Based on the geochemical and IP chargeability criteria, the Hwy Zone offers interesting drill targets north of and under the Stewart-Cassiar Hwy between L20N and L28N.

Based on geochemical and geophysical parameters discussed above, the Rhyolite Zone offers an interesting, initial drill target at about 62+00E on L14N. The geochemical expression of the Rhyolite Zone remains open to the east and it remains a particularly intriguing target in view of the felsic lithologies, the positive magnetic association that may reflect dioritic intrusive rocks, and its overall similarity to the gold and copper targets on the Deltaic Grid, located a few km to the east.

8.C. GEOLOGICAL SURVEYS:

The results of the geological survey are integrated with the historical geological reconnaissance information on Map 9. The geological survey confirmed that the grid is 99% overburden covered. The overburden generally consists of an A horizon with variable thickness that increases substantially in areas of low ground; an often well developed B horizon showing various degrees of oxidation, including spectacular pink, yellow and orange hues; a stoney C horizon that is readily apparent in proximity to outcrop and in subcrop areas; and, some extensive, underlying sand and gravel deposits, particularly on the west side of the Stewart-Cassiar Hwy in proximity to the Bell-Irving River. There, a gravel deposit is currently being developed by B.C. highway crews - no geochemical soil anomalies are located in that area.

The sparse outcrops located during the 1998 program comprise mainly black shale and mudstone . The rocks have platy cleavage, trend northwest, have near vertical dips and display varying degrees of limonitization. The main evidence as to specific types of overburden covered bedrock lithologies is often apparently provided, at many locations, by the dominance of a particular type of angular float and/or subcrop. Based on this evidence, the most pervasive rock type underlying the grid is interpreted to be altered crystal tuff and tuff breccia. Breccia fragments ranging up to over 30 cm are often found in a silicified crystal tuff matrix. The rocks are usually strongly altered (hematized, limonitized, manganese stained, silicified, and chloritized with or without chlorite/calcite/quartz stockworks) and show varying degrees of sulfidization (usually vuggy pyrite). The rock type is considered important, particularly when hematized, since it is the main host rock of gold and copper mineralization on the Todd Creek Property and on the Deltaic Grid, east of the Delta West Grid.

The next most pervasive, apparent bedrock types are: fine grained, silicified mafic volcanic rock of andesitic composition, often with quartz and white calcite fracture fillings; sediments (shale, mudstone, sandstone), often hematized and forming liner ridges; bleached rhyolite and dacite, often hematized and sulfidized with disseminated pyrite; and, minor intrusive rocks of dioritic composition. The latter rock type is usually well pyritized and has variable magnetite content.

It is further postulated that the Hwy Zone is apparently associated mainly with altered tuff and tuff breccia; the Central Zone with altered mafic volcanics, tuff breccia and some mudstone and shaly sediments; and, the Rhyolite Zone with dacite and rhyolite. The rock types host the gold/copper mineralization on the Deltaic Grid, approximately 8 km to the east, and most of the important deposits in the Stewart Camp.

A number of linear, northwest trending fault valleys were delineated that may control or have an important role in the genesis of the target mineralization. The prominent positive magnetic anomaly associated with the felsic volcanic rocks on the eastern margin of the reconnaissance Delta West Grid may reflect dioritic intrusions. If so, this geological setting is similar to that of the Deltaic Grid to the east where interesting gold/copper mineralization is associated with altered felsic pyroclastic rocks intruded by pyritized diorite. Carbonatized mudstone occurs as interbeds in the mineralization. Gold/copper mineralization at the Red Mountain deposit located near Stewart, is also associated with Jurassic, dioritic intrusions.

8.D. PROSPECTING SURVEYS:

Prospecting activities were concentrated on locating the possible source of the geochemical and geophysical anomalies. Historical surveys had located a variety of altered float rocks, often with anomalous copper contents ranging up to 269 ppm, with generally little anomalous zinc and no gold. However, a float sample of altered tuff breccia located on L14N at 56+85E did contain 95 ppb gold and 252 ppm copper. The weakly pyritized sample is located in an area of a strong chargeability anomaly and correlating copper, zinc and barium soil anomalies.

Prospecting was carried out in November after the frost had destroyed much of the grassy ground cover. Areas of angular float and subcrop boulders were examined and 32 representative samples of generally well altered rock were collected. Twenty composite samples (Map 9, Table 5) were subjected to 32 element ICP analysis and 1 sample (460256) was assayed by FA-AA for gold (Table 5, Appendix 2). Most of these samples comprise altered tuff and tuff breccia that show various degrees of hematization and silicification. Other samples collected include pyritized diorite and weakly sulfidized, hematized rhyolite.

Five of the 1998 samples also have anomalous copper contents. The majority of all the rock samples with anomalous copper contents are located in some proximity to the eastern segment of the Central Zone, thus adding further credibility to the proposed diamond drilling referenced in Section 8B.

8.E. HLEM GEOPHYSICAL SURVEY:

The 10 km horizontal loop EM survey was carried out on seven grid lines (L14N, L20N, L22N, L24N, L26N, L28N AND L30N) with a MAX-MIN I-10 Electromagnetic System. The survey was carried out mainly in the clear cut, as entangled dead fall and wind fall on the east edge of the clear cut negated further advancement. Flooded bogs on L50N, L18N and on the west side of the Stewart-Cassiar Hwy further mitigated the additional surveying.

The equipment was rented from Apex Parametrics Limited of Uxbridge Ontario and the system specifications are shown in Table 6. The Delta West HLEM survey utilized 3 frequencies (880, 3520, 14080) and a 100 m coil separation. In-phase and quadrature components of the secondary magnetic field, in percent of primary field, were taken at 25 m intervals and slope corrections were made at each station using an inclinometer. Profiles of the in-phase and quadrature are shown on Figures 7A-7G, and the locations of the interpreted, weak conductors are also shown on Maps 5-8.

The survey was successful in delineating a number of weak to very weak, parallel to subparallel HLEM conductors, a number of which, because of their general linearity, strike lengths and interesting correlations with geophysical and geochemical anomalies, are deemed to be of particular interest. The conductors are discussed below:

CONDUCTOR A:

The weak conductor trends northwest and has been traced for about 700 m (L30N to L24N). Since it is located at the eastern edge of the survey area, it is not fully delineated on all lines and its dip remains uncertain. The conductor shows some direct correlation with copper, zinc, cadmium and barium soil geochemistry, and moderate to strong IP chargeability correlation on L26N - the only line along its strike length that has been surveyed with IP. Host rocks apparently include felsic volcanics, and crystal tuff and crystal tuff breccia.

CONDUCTOR B:

The weak conductor parallels Conductor A, has an interpreted strike length of over 1.6 km (L14N to L30N) and a near vertical dip. On L26N and to the northwest, the conductor has direct correlation with copper, cadmium and barium, and a more flanking correlation with zinc soil geochemistry. To the southeast of L26N, the main correlations are flanking for the copper, cadmium and barium, and direct and flanking to some of the strongest zinc geochemistry. On lines surveyed with IP, the conductor has moderate to strong IP chargeability correlation. Host rocks apparently include felsic volcanics, pyroclastic rocks and shaly sediments.

CONDUCTOR C:

The weak conductor parallels Conductor B, and also has an interpreted strike length of over 1.6 km and a near vertical dip. On L24N and to the northwest, the conductor has direct correlation with copper, and a flanking correlation with cadmium, barium and some of the strongest zinc soil geochemistry. To the southeast of L26N, the conductor has a more direct correlation with zinc and a flanking association with respect to copper, cadmium and barium. On lines surveyed with IP, the conductor has moderate to strong IP chargeability correlation. Host rocks include mainly crystal tuff and crystal tuff breccia and some felsic volcanic rocks.

TABLE 5

FLOAT AND SUBCROP ROCK SAMPLES
DELTA WEST PROJECT AREA

SAMPLE NO., LOC TYPE:	NAME, COLOUR:	DESCRIPTION:	Au g/t	Ag ppm	Cu ppm	Zn ppm	As ppm	Cd ppm	Ba ppm
			SELECTED ANALYSES						
460251 L30, 53+75E ANG FLT	ALT TUFF BX W: GRN- OBRN FR: GRN GR	MOD SIL, HEM, LIM FRAGS TO 20 CM MIN OXID VUG REM PY	—	<.2	55	106	16	0.5	50
460252 L31, 54+75E ANG FLT	SIL VOL W: GRN-BRN FR: GRN	MOD CHL, SIL, CW QTZ VN, TR PY, CAL ON FR FI GR -APH	—	<.2	23	114	62	0.5	90
460253 L31N, 53+00E ANG FLT UP TO 1M	ALT ANDESITE W:OR-B-GR FR:GRN-GR	FINE STWK CARB, QTZ FI GR, SIL, MOD LIM MN AND CARB ON FR AND JNTS 2-3% DISSEM PY IN VNS AND MATRIX	—	<.2	49	90	2	<.5	30
460254 L28, 59+00E ANG FLT	ALT RHYOLITE W: OB-PK-BUFF BRN FR: GR BLK	WELL LIM, SOME HEM FI-APH, LOC EARTHY AND VUGGY, NUM FRS 1% PY	—	<.2	7	38	2	<.5	100
460255 L28, 59+50E ANG FLT	ALT CT W: YEL BRW FR: DK B GR	80% FI GR, SIL MATRIX 20% XLS 1-3 MM WH QTZ, MIN QTZ VEINGIN WELL LIM, 1% PY IN ISOLATED PATCHES	—	<.2	6	48	6	<.5	50
460256 L28, 55+00E ANG FLT	PY DIORITE W: OB FR: GRN GR	FI-CO GR, SUGARY, EARTHY WK - STR MAG 5-7% DISSEM PY WELL LIM ON SURFACE	<.005	<.2	79	88	<2	<.5	50

SAMPLE NO., LOC TYPE:	NAME, COLOUR:	DESCRIPTION:	Au g/t	Ag ppm	Cu ppm	Zn ppm	As ppm	Cd ppm	Ba ppm
			SELECTED ANALYSES						
460257 L28, 55+00E ANG FLT	ALT ANDESITE W:OB-WH-BRW FR: GRN GRY WH	FI , MOD SIL, WELL FR, INTENSE QTZ, CARB STWK WELL LIM ON FR, 1% DISSEM PY	—	<.2	119	74	10	<.5	60
460258 L28, 53+10E ANG FLT	ALT TUFF B X W: OB FR: GR GRN	FI SIL MATRIX WITH FRAGS TO 5CM, UP TO 2% FI DISSEM PY, VUGGY, LIM ON FR, SOME QTZ/CARB VN	—	<.2	8	84	22	<.5	90
460259 L 24, 49+35E ANG FLT	ALT TUFF BX W:OB GRN BLK F: GRY GRN WH	HET FRAGS TO 25 MM IN SIL, FI - APH MATRIX, LENSES CARB TO 3 CM, VUGGY, WELL LIM ON FR SURF NO VISIBLE SULF, BUT OXID VUGS	—	<.2	10	146	12	<.5	90
460260 L 24, 49+35E ANG FLT	ALT XL TUFF W:OB BLK F: GRY GRN	MICRO QTX XLS IN SIL MATRIX WELL LIM, MOD MN, CHL WH CAL, QTZ LENSES TO VN UP TO 15 CM, VUGGY - SULF REMS?	not submitted						
460261 L 24, 49+35E ANG FLT	ALT XL TUFF W:OB F: GRY GRN PK	MICRO QTX XLS IN SIL MATRIX WELL LIM, MOD HEM EUH VUGS - 2-3% REM PY EARY TO VUGGY, PORPH TEXT MIN QTZ VN TO 10 CM AND WK STWK	—	<.2	3	42	12	<.5	40
460262 L 24, 49+75E ANG FLT	ALT XL TUFF W:BRN, PK, WH F: GRY BLK WH OB	MICRO QTX XLS TO .5 MM IN SIL APH MATRIX, PATCHES CARB, MOD STR HEM ON FRS, SOME EARTHY VUGGY TEXT, LOC MN STAIN, AND VN WITH HEM	—	<.2	4	28	<2	<.5	90
460263 L 24, 50+20 ANG FLT	RHY OF SIL TUFF W: PK TO OB F: GRY TO WH	HEM, LIM, CHL ON FRS WELL SIL, APH TO VUGGY TEXT, POSS 2-3% REM SULF AS EUH VUGS	—	<.2	3	8	8	<.5	120
460264 L 24, 50+25 ANG FLT	RHY OR SIL TUFF W: PK TO OB F: GRY PK WH	WELL HEM, MOD LIM, MN, CW QV AND STRINGERS, SOME VUGGY PY, APH SIL MATRIX, SOME MICR XLS, LOCAL PATCHES CAL WITH HEM COAT	—	<.2	4	44	2	<.5	40

SAMPLE NO., LOC TYPE:	NAME, COLOUR:	DESCRIPTION:	SELECTED ANALYSES Au g/t	Ag ppm	Cu ppm	Zn ppm	As ppm	Cd ppm	Ba ppm
460265 L 24, 52+50E ANG FLT	ALT TUFF BX W: PK OB WH F: GRY GRN PK	MIN XLS TO .3 CM IN SIL APH MATRIX WELL FR, HEM LIM ON FR WELL LIM, HEM; SOME DISSEM PY TO .5 CM, MOST SULF IN MATRIX	—	<.2	7	64	26	<.5	30
460266 L 24, 52+50E ANG FLT	RHYOLITE W: PK OB WH GRY BLK F: PK WH	PK WH FLOW BANDING, WELL SIL, HEM, MN STAIN, 2-3 % DISSEM PY ON FRS AND OXID VUGS; APH SIL MATRIX	—	<.2	3	22	16	<.5	40
460267 L 24, 53+75E ANG FLT	ALT TUFF BX W: PK OB F: GRY PK WH	FRAGS TO 5 CM IN FI CHL, CARB MATRIX XLS TO 0.2 CM, WELL HEM MATRIX, CW BLEBS AND STWK OF CARB STR SIL, VUGGY ON SURFACE	—	<.2	37	114	142	<.5	110
460268 L 20, 56+85E ANG FLT	ALT XL TUFF W: PK OB F: GRY PK WH YEL	XLS TO .5 CM IN SIL MATRIX DISSEM AND PATCHES HEM, JAR AND AL, OXID VUGS, SOME LIM COAT, DISSEM PY, ASPY, 2-3%,	—	<.2	1	12	<2	<.5	120
460269 L 20, 53+25E ANG FLT	ALT XL TUFF W: PK OB F: GRY PK BLK	XLS TO .3 CM IN SIL HEM MATRIX DISSEM AND PATCHES HEM, JAR SULF EUH VUGS	—	<.2	3	42	14	<.5	50
460270 L 20, 53+00E ANG FLT	ALT XL TUFF W: PK WH F: GRY WH PK	XLS TO 0.1 CM IN SIL, APH HEM MATRIX SOME LIM, QTZ VN TO 2 CM, VUGGY, EARTHY, JAR, AL ON FRS	—	<.2	1	16	8	<.5	90
460271 L 32, 55+25E ANG FLT	ALT TUFF BX W: OB BUFF WH F: GRY GRN	70% BX FRAGS TO 4 CM IN FI GR SIL MATRIX,, MATRIX AND FRAGS MICRO TUFF - QTZ WH QTZ XLS; WELL LIM ON W, LOC VUGGY, EARTHY PATCHES OF CARB 1% DISSEM PY, LOC 2-3%	—	<.2	50	86	24	<.5	200
598761 L20, 50+50E ANG FL	ALT TUFF BX W: OB BUFF WH PK BLK F: GRY GRN WH PK BLK	WELL HEM, CARB, CHL, FRAGS TO 6 CM WELL DEVEL STW MN, QTZ CHL ON FRACS FI TO VUGGY TO EARTH TEXT FI TO CO ALT MATRIC SOME MICRO TUFF XLS	not submitted						

SAMPLE NO., LOC TYPE:	NAME, COLOUR:	DESCRIPTION:	SELECTED ANALYSES Au g/t	Ag ppm	Cu ppm	Zn ppm	As ppm	Cd ppm	Ba ppm
598768 L20, 50+50E ANG FL	RHYOLITE W: PK OB WH GRY BLK F: PK WH	WELL SIL, VUGGY, SULF REMS TO 2% WELL HEM, SOME MN APH TEXT, LIM AND HEM ON FRS	not submitted						

APEX MAXMIN I-10 EM SYSTEM

- Designed for geoengineering applications and groundwater and mineral exploration, continuing and expanding the concepts of the earlier and highly popular MaxMin models.

- Frequency span is extended to ten octavely spaced frequencies from 110 to 56320 Hz, with increased range and number of coil separations. These and other developments result in greater performance, with more applications and enhanced interpretation.

- Advanced spheric and powerline interference rejection is still further improved, resulting *in faster and more accurate surveys, particularly at the larger coil separations.*

- MaxMin Computer or MMC, which is described in a separate data sheet, is offered for digital data processing, display, storage and transfer. The MMC displays and stores the in-phase and quadrature readings, their standard deviations, and the corresponding apparent ground conductivity values. Rough terrain surveys are also simplified with the MMC.

- Data interpretation and presentation programs are available for layered earth parametric soundings and discrete conductor surveys done with MaxMin EM.

TRANSMITTER

RECEIVER + MMC

MAXMIN I-10 ELECTROMAGNETIC SYSTEM SPECIFICATIONS:

FREQUENCIES: 110, 220, 440, 880, 1760, 3520, 7040, 14080, 28160 and 56320 Hz.

COIL SEPARATIONS: SET NO. 1: 12.5, 25, 50, 75, 100, 125, 150, 200, 250, 300 and 400 metres (the standard set).
SET NO. 2: 10, 20, 40, 60, 80, 100, 120, 160, 200, 240 and 320 metres (selected with grid switch in receiver).
SET NO. 3: 50, 100, 200, 300, 400, 500, 600, 800, 1000, 1200 and 1600 feet (selected with grid switch in receiver).

TRANSMITTER DIPOLE MOMENTS:

110 Hz:	200 Atm^2	3520 Hz:	80 Atm^2
220 Hz:	190 Atm^2	7040 Hz:	40 Atm^2
440 Hz:	170 Atm^2	14080 Hz:	20 Atm^2
880 Hz:	140 Atm^2	28160 Hz:	10 Atm^2
1760 Hz:	110 Atm^2	56320 Hz:	5 Atm^2

MODES OF OPERATION: MAX 1: Horizontal loop or slingram - transmitter and receiver coil planes horizontal and coplanar.
MAX 2: Vertical coplanar loop mode transmitter and receiver coil planes vertical and coplanar.
MIN 1: Perpendicular mode 1 - transmitter coil plane horizontal and receiver coil plane vertical.
MIN 2: Perpendicular mode 2 - transmitter coil plane vertical and receiver coil plane horizontal.

PARAMETERS MEASURED: In-phase and quadrature componets of the secondary magnetic field, in % of primary field.

READOUTS: Analog direct edgewise meter readouts for in-phase, quadrature and tilt. Additional digital LCD readouts provided in the optional MMC computer. Interfacing and controls are provided for ready plug-in of the MMC.

RANGES OF READOUTS: Switch activated analog in-phase and quadrature scales: 0± 4 %, 0± 20 % and 0± 100 %, and digital 0± 199.9 % autorange with optional MMC. Analog tilt 0± 75 % and 0± 99 % grade with MMC.

RESOLUTION: Analog in-phase and quadrature 0.1 to 1 % of primary field, depending on scale used, digital 0.01 % with autoranging MMC; tilt 1 % grade.

REPEATABILITY: 0.01 to 1 % of primary field, typical, depending on frequency, coil separation and conditions.

SIGNAL FILTERING: Powerline comb filter, continuous spheric noise clipping, autoadjusting time constant, and more.

WARNING LIGHTS: Receiver signal and reference warning lights to indicate potential error conditions.

SURVEY DEPTH PENETRATION: From surface down to 1.5 times coil separation for large horizontal target and 0.75 times coil separation for large vertical target, values typical.

REFERENCE CABLE: Lightweight unshielded 4/2 conductor teflon cable for maximum operating temperature range and for minimum pulling friction.

INTERCOM: Voice communication link provided for operators via the reference cable.

TEMP. RANGE: Minus 30 to plus 60 degrees Celsius, operating.

RECEIVER BATTERIES: Four standard 9 V - 0.6 Ah alkaline batteries. Life 25 hours continuous duty, less in cold weather. Optional 1.2 Ah extended life lithium batteries available (recommended for very cold weather).

TRANSMITTER BATTERIES: Standard rechargeable gel-type lead-acid 6 V - 28 Ah batteries (4 x 6 V - 7.2 Ah) in nylon belt pack. Optionally rechargeable long life 6 V - 28 Ah nickel-cadmium batteries (20 x 1.2 V - 7 Ah) with ni-cad chargers - best choice for cold climates.

TRANSMITTER BATTERY CHARGERS: Lead acid battery charger: 7.3 V @ 2.8 A, Ni-cad battery charger: 2.8 A @ 8 V nominal output. Operation from 110 - 120 and 220 - 240 VAC, 50 - 60 Hz, and 12 - 15 VDC supplies.

RECEIVER WEIGHT: 8 Kg carrying weight (including the two ferrite cored antenna coils), 9 Kg with MMC computer.

TRANSMITTER WT: 16 Kg carrying weight.

SHIPPING WEIGHT: 60 Kg plus weight of reference cables at 3 Kg per 100 metre, plus optional items if any. Shipped in two aluminum lined field / shipping cases.

STANDARD SPARES: Spare transmitter battery pack, spare transmitter battery charger, two spare transmitter retractile connecting cords, spare set of receiver batteries.

OPTIONS AND ACCESSORIES, PLEASE SPECIFY:
- MMC, MaxMin Computer option
- Data interpretation and presentation programs
- Reference cables, lengths as required
- Reference cable extension adapter
- Handheld inclinometer for rough terrain
- Receiver extended life lithium batteries
- Transmitter ni-cad battery & charger option
- Minimal, regular or extended spare parts kit

Specifications subject to changes without notification

93 - 10 - 05

Telephone: (1) 905 852 5875 Facsimile: (1) 905 852 9688
APEX PARAMETRICS LIMITED
P. O. Box 818, Uxbridge, Ontario, Canada L9P 1N2
Airport: Toronto International

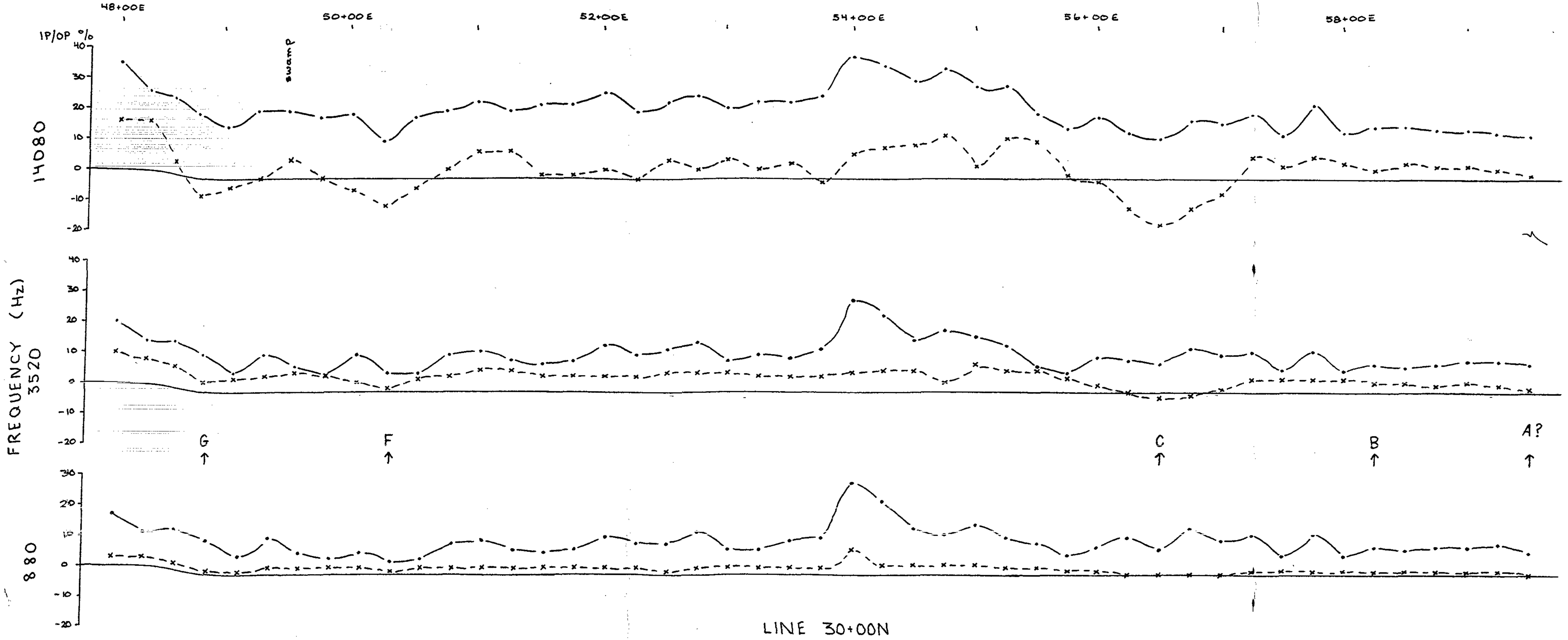


Figure 7A
DELTA WEST PROJECT AREA
MAX-MIN SURVEY, L30+00N

- • in phase
- × out of phase
- A interpreted HLEM conductor
- ↑ axis of interpreted HLEM conductor
- ∿ ∿ interpreted fault
- strong IP chargeability anomaly
- moderate IP chargeability anomaly

Horizonal Scale 1:2500

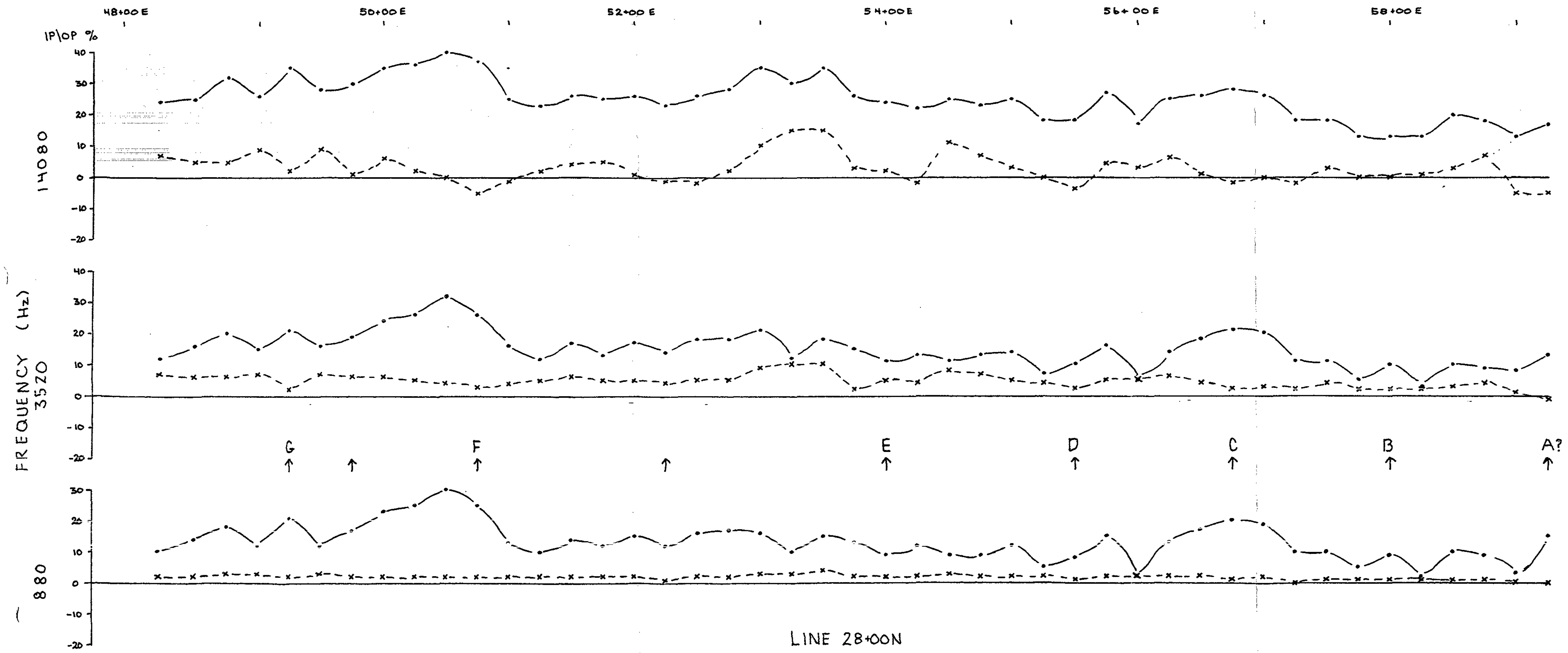


Figure 7B
DELTA WEST PROJECT AREA
MAX-MIN SURVEY, L28+00N

• in phase
× out of phase
A interpreted HLEM conductor
↑ axis of interpreted HLEM conductor
~ ~ interpreted fault
strong IP chargeability anomaly
moderate IP chargeability anomaly

Horizonal Scale 1:2500

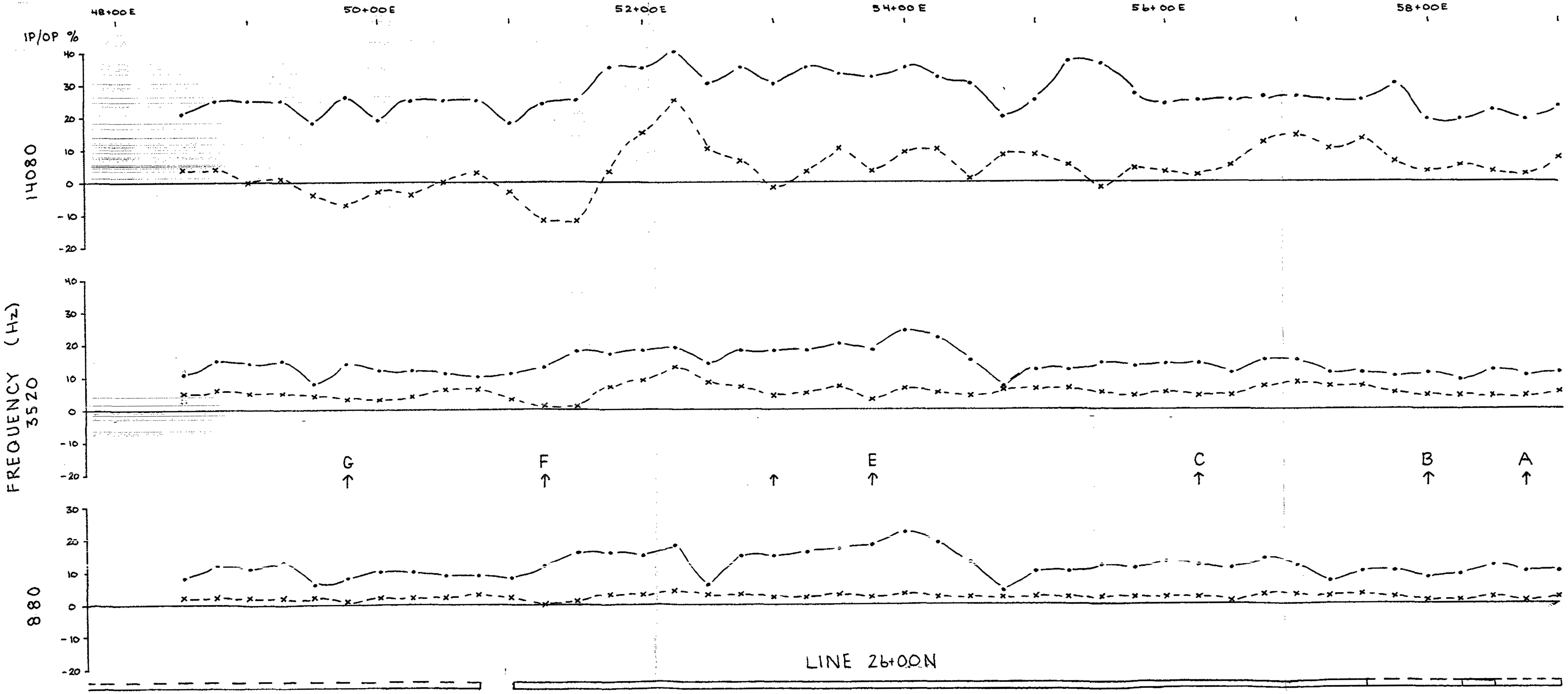


Figure 7C
DELTA WEST PROJECT AREA
MAX-MIN SURVEY, L26+00N

- • in phase
- × out of phase
- A interpreted HLEM conductor
- ↑ axis of interpreted HLEM conductor
- ∾ interpreted fault
- strong IP chargeability anomaly
- moderate IP chargeability anomaly

Horizonal Scale 1:2500

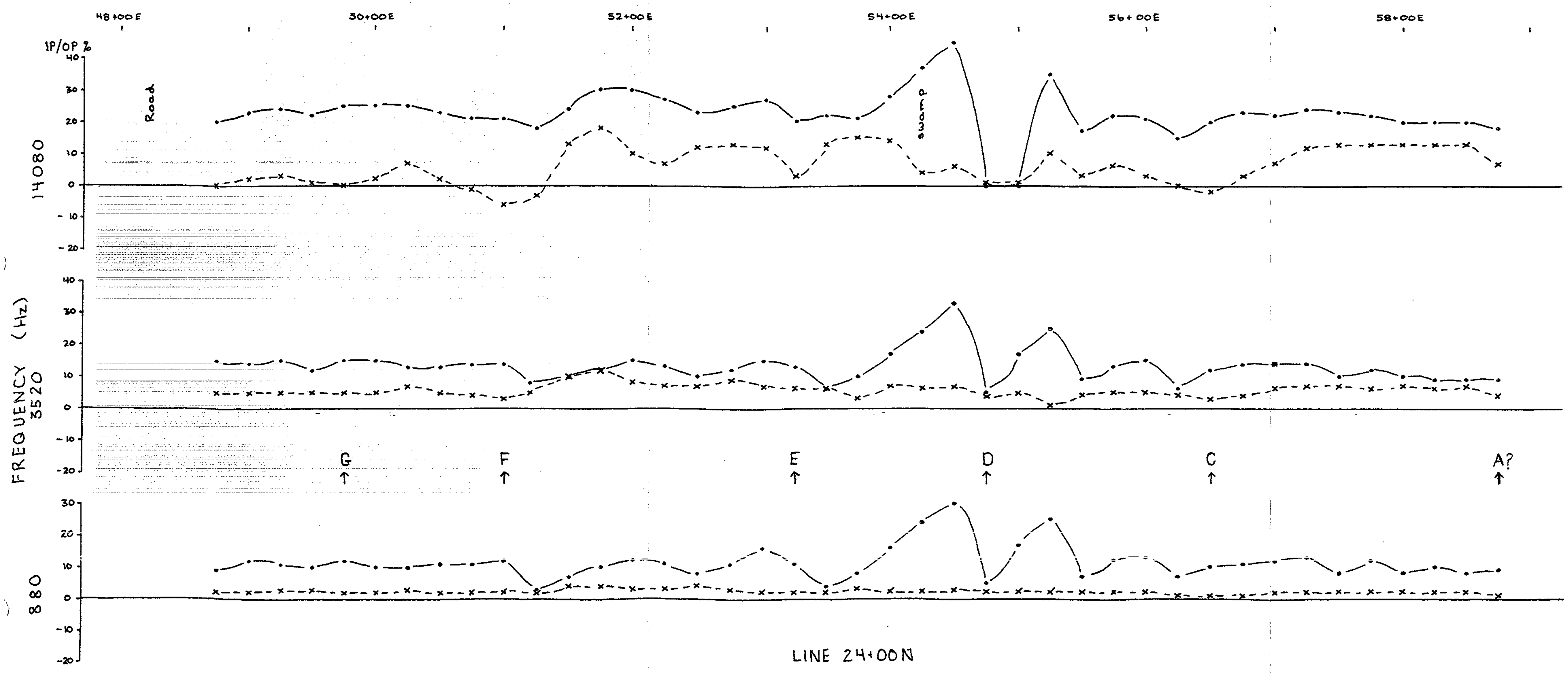


Figure 7D
DELTA WEST PROJECT AREA
MAX-MIN SURVEY, L24+00N

- • in phase
- × out of phase
- A interpreted HLEM conductor
- ↑ axis of interpreted HLEM conductor
- ∼ ∼ interpreted fault
- strong IP chargeability anomaly
- moderate IP chargeability anomaly

Horizonal Scale 1:2500

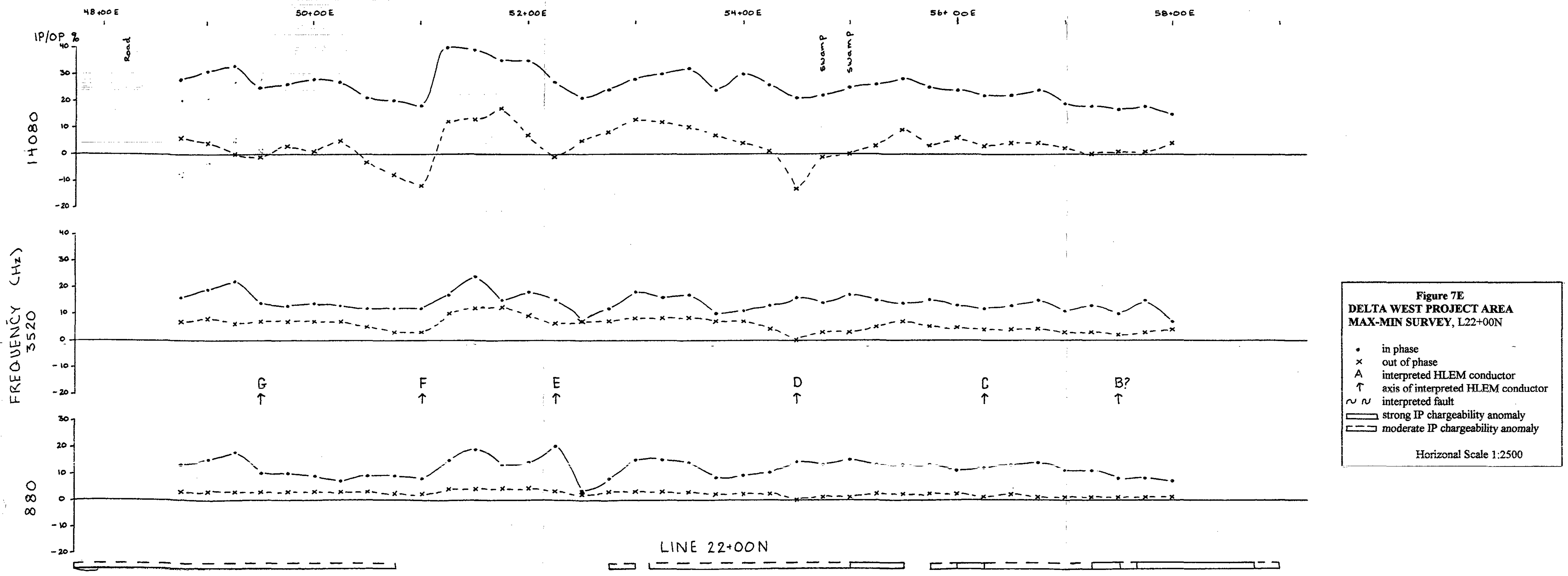


Figure 7E
DELTA WEST PROJECT AREA
MAX-MIN SURVEY, L22+00N

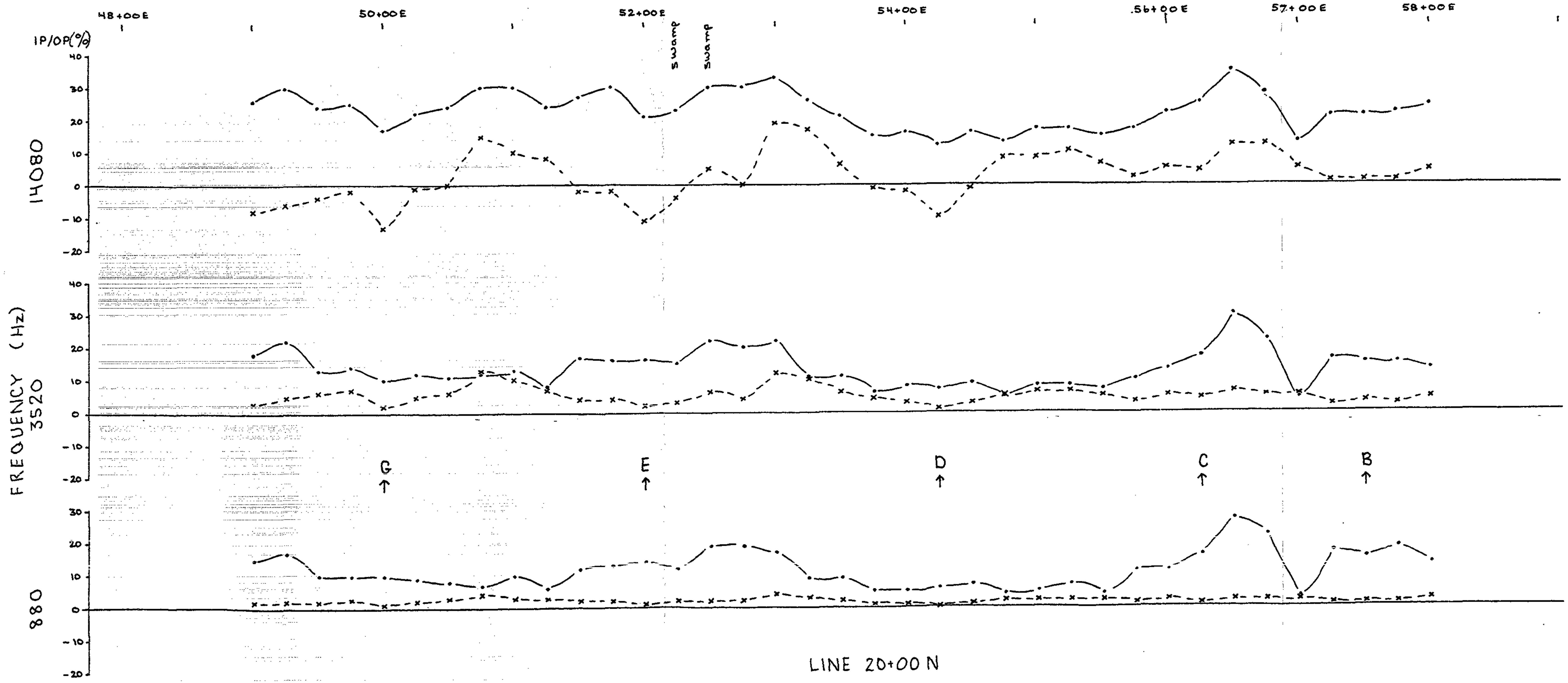


Figure 7F
DELTA WEST PROJECT AREA
MAX-MIN SURVEY, L20+00N

- • in phase
- × out of phase
- A interpreted HLEM conductor
- ↑ axis of interpreted HLEM conductor
- ~ ~ interpreted fault
- strong IP chargeability anomaly
- moderate IP chargeability anomaly

Horizonal Scale 1:2500

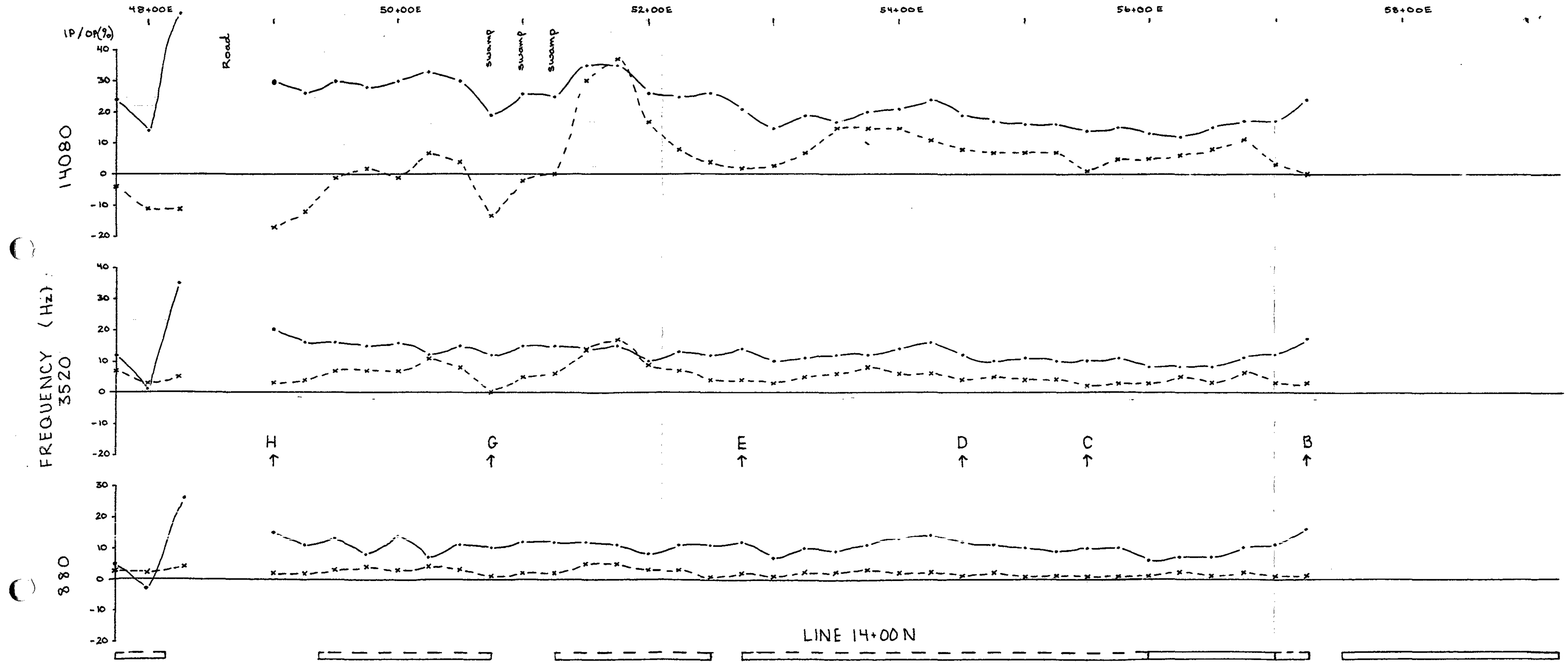


Figure 7G
DELTA WEST PROJECT AREA
MAX-MIN SURVEY, L14+00N

- • in phase
- × out of phase
- A interpreted HLEM conductor
- ↑ axis of interpreted HLEM conductor
- ∼∼ interpreted fault
- strong IP chargeability anomaly
- moderate IP chargeability anomaly

Horizonal Scale 1:2500

CONDUCTOR D:

The weak conductor parallels Conductor C, and also has an interpreted strike length of over 1.6 km and a near vertical dip. The conductor generally has a flanking association with copper, barium, and cadmium soil geochemistry, with the exception of north of L26N, where it has direct correlation with cadmium. The conductor mainly has a direct association with anomalous zinc soil geochemistry, but a flanking relationship with the higher zinc soil values. On lines surveyed with IP, the conductor has moderate to strong IP chargeability correlation. The central and eastern segments of the conductor trend subparallel to topographic linears, which flank it on the east and west, and which are interpreted to be faults.

CONDUCTOR E:

The weak conductor parallels Conductor D, and has an interpreted strike length of about 800 m (L20N to L28N) and a near vertical dip. The conductor generally has a closely flanking to direct association with copper, cadmium, and zinc, and a more direct association with barium soil geochemistry. On lines surveyed with IP, the conductor has strong IP chargeability correlation on L26N. The central portion of the conductor is flanked to the east by an interpreted, subparallel fault. The conductor appears to be associated with pyroclastic and mafic volcanic rocks.

CONDUCTOR F:

The weak conductor parallels Conductor E, and has an interpreted strike length of over 1.6 km and a dip ranging from near vertical to easterly. The conductor has a closely flanking to direct association with barium, a generally direct association with zinc, and some direct association with cadmium soil geochemistry. On lines surveyed with IP, the conductor has strong IP chargeability correlation on L26N. The conductor appears to be associated mainly with crystal tuff, and mafic and felsic volcanic rocks.

CONDUCTOR G:

The weak conductor parallels Conductors F and E, and has an interpreted strike length of over 1.6 km and a dip ranging from near vertical to easterly. The conductor has a flanking relationship on the east side of the main zinc, copper, cadmium, and barium soil geochemical anomalies of the Hwy Zone. On lines surveyed with IP, the conductor has moderate IP chargeability correlation. The conductor appears to be associated mainly with crystal tuff, and crystal tuff breccia.

9. CONCLUSIONS:

The Delta West Project is deemed to offer a very large, prospective target area for the discovery of substantial, possibly stratabound polymetallic deposits located in close proximity to, and under the Stewart-Cassiar Hwy. The geological environment is mainly overburden covered, but as interpreted by the GSC and the author, includes the same favourable Hazelton volcanic and sedimentary rocks and structural attributes that host the most important deposits of the Stewart Camp, including the Eskay Creek deposit.

The promising exploration environment also includes a northwest trending structural fabric, and a northwest trending, anastomosing fabric of zinc, copper, cadmium and barium soil geochemical anomalies that signature many of the most important gold/copper deposits of the Stewart Camp. The geochemical anomalies also display an intricate zoning that is further characteristic of such deposits. Based on reconnaissance IP surveying, broad drill targets are delineated by moderate to strong chargeability anomalies. Based on the detailed HLEM surveying, it is concluded that Aerodat airborne conventional EM anomalies delineated in 1997 have bedrock sources, and that a number of the HLEM conductors with positive geochemical and geological associations offer high priority, initial drill targets in proximity to the Stewart-Cassiar Hwy.

10. RECOMMENDATIONS:

It is recommended that initially, at least 2 of the priority drill targets (Figures 8, 9) delineated to date be evaluated with approximately 600 m of diamond drilling in the next phase of exploration. Based on the project rationale that has been used successfully on the Deltaic Grid located about 8 km to the east, and elsewhere in the camp, each of these drill targets has a number of attributes that include an associated, moderate to strong IP chargeability anomaly or projected anomaly; an HLEM anomaly that may represent greater concentrations of sulfides, or a controlling or mineralizing structure; anomalous zinc soil geochemistry with direct or closely flanking anomalous copper, barium and cadmium correlation; and, prospective geology. Based on these criteria, the following drill holes are proposed:

HOLE NO., FIGURE	TARGET:	LOCATION:	AZIMUTH, DIP:	LENGTH:
DW99-01, 8.	CENTRAL ZONE GEOCHEM, PROJECTED IP, C HLEM ZONE	L30+00N, 55+00E	60°, -45°	300 M
DW99-02, 9.	HIGHWAY ZONE GEOCHEM, IP, G HLEM ZONE	L26+00N, 47+50E	60°, -45°	300 M

Since the proposed holes are in proximity to the Stewart-Cassiar Hwy, the drill program could be carried out at any time during the year. For example, the proposed collar of DW99-01 is located about 40 m west of the Hwy and the hole would be drilled under the Hwy, subject to government permitting.

If the drilling is successful, it is recommended that in 1999, in addition to carrying out detailed and step out drilling on the Hwy and Central Zones, the 1998 type surveys be expanded on recut and new grid lines to the northeast, the northwest and southeast of the 1998 grid. All the targets remain open for expansion, and the Rhyolite Zone requires detailed evaluation, particularly to the east of all current and historical work.

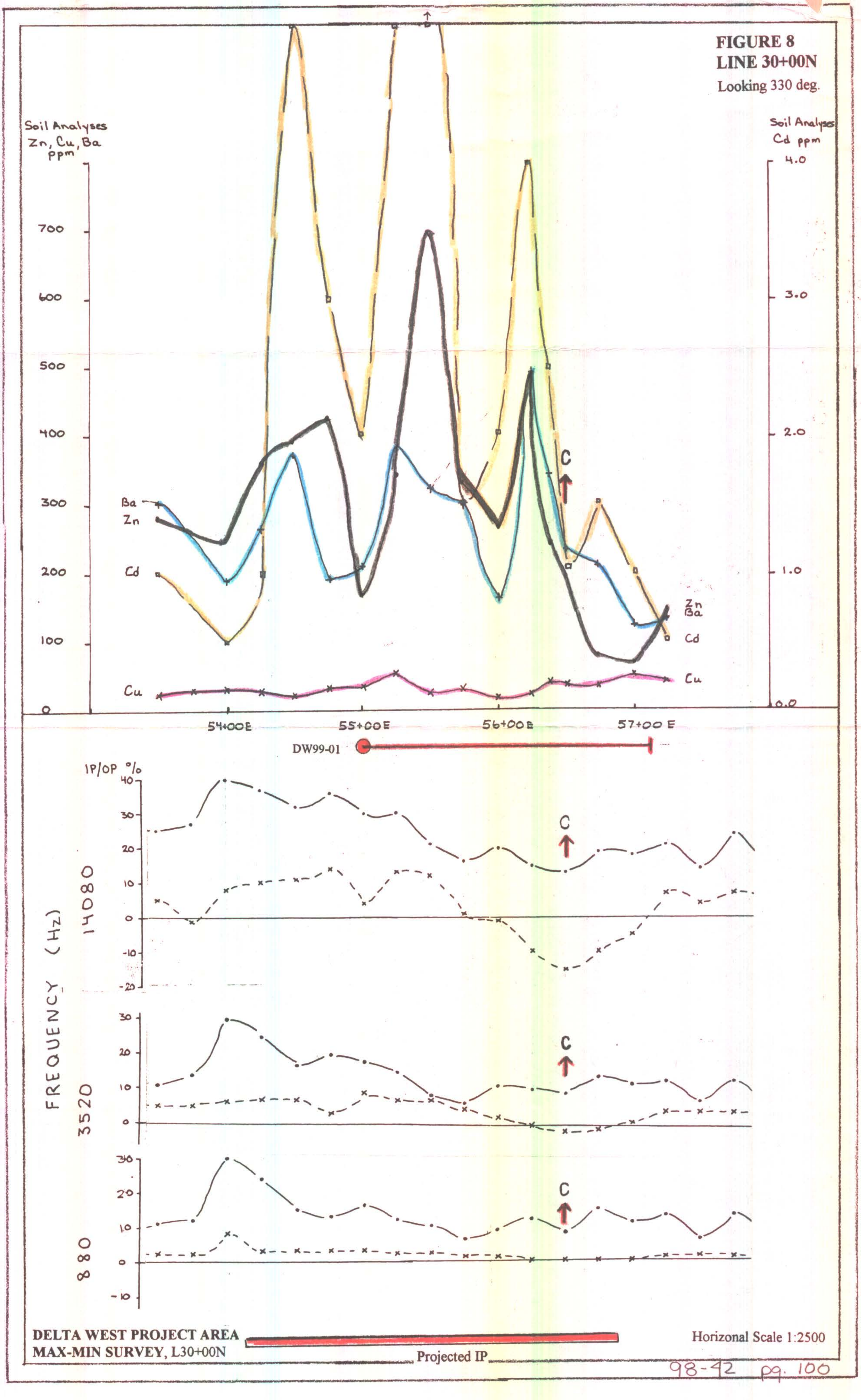


FIGURE 8
LINE 30+00N
Looking 330 deg.
Soil Analyses Zn, Cu, Ba ppm
Soil Analyses Cd ppm
700
600
500
400
300
200
100
0
4.0
3.0
2.0
1.0
0.0
Ba
Zn
Cd
Cu
C
54+00E
55+00E
56+00E
57+00E
DW99-01
IP/OP %
FREQUENCY (Hz)
14080
3520
880
40
30
20
10
0
-10
-20
DELTA WEST PROJECT AREA
MAX-MIN SURVEY, L30+00N
Projected IP
Horizonal Scale 1:2500
98-42 pg. 100

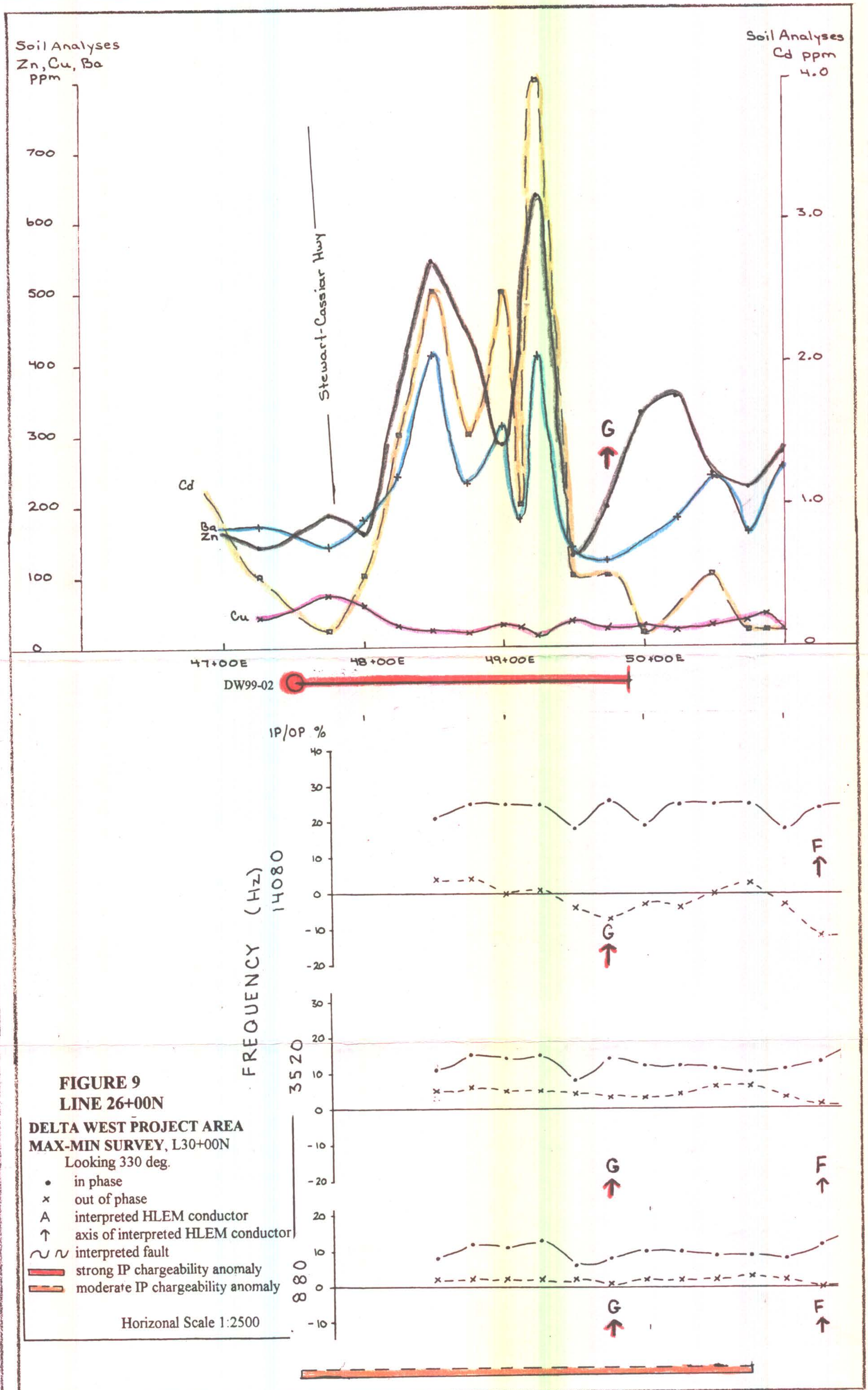


FIGURE 9
LINE 26+00N

DELTA WEST PROJECT AREA
MAX-MIN SURVEY, L30+00N
Looking 330 deg.

- • in phase
- × out of phase
- A interpreted HLEM conductor
- ↑ axis of interpreted HLEM conductor
- ∿ ∿ interpreted fault
- strong IP chargeability anomaly
- moderate IP chargeability anomaly

Horizonal Scale 1:2500

98-42 pg 101

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12. STATEMENT OF QUALIFICATIONS:

I, David E. Molloy, of the Town of Unionville, of the Regional Municipality of York, Ontario, hereby certify that:

i. I am a resident of Ontario at 49 Normandale Road, Unionville, Ontario, L3R 4J8.

ii. I am a graduate of McMaster University, in the City of Hamilton, Ontario, with a B.A. in Philosophy (1968); I am a graduate of the University of Waterloo, in the City of Waterloo, Ontario, with a B.Sc. in Earth Science (1972);

iii. I have practised my profession in mineral exploration continuously for the past 26 years including 11 years with St. Joe Canada Inc./Bond Gold Canada Inc./LAC Minerals Ltd. as Regional Geologist, Exploration Manager and as Senior Vice President, Canadian Exploration; and, 8 years with Beth-Canada Mining Company as a Regional Geologist;

iv. I am a Fellow of The Geological Association of Canada;

v. I am a Member of the Canadian Institute of Mining and Metallurgy; of the Prospectors and Developers' Association; of the Association of Exploration Geochemists; of the B.C. & Yukon Chamber of Mines; and, of the Association of Geoscientists of Ontario.

vi. I have supervised the field program and the preparation of this report titled "Report On The 1998 Delta West Project, Delta Peak Area, Skeena Mining Division, Northwestern British Columbia". I have referenced the technical data available in the BCMEMPR assessment work files as well as other sources listed in the References.

vii. The recommendations herein are solely the responsibility of the author.

David E Molloy

David E. Molloy, B.A., B.Sc., F.G.A.C.

Dated at Unionville, Ontario, this 15th day of December, 1998.

APPENDIX 1

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOFINE EXPLORATION CONSULTANTS LTD.

49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
Comments: ATTN: DAVID MOLLOY

Page Number : 1-A
Total Pages : 4
Certificate Date: 17-NOV-199
Invoice No. : I9835584
P.O. Number :
Account : KIV

CERTIFICATE OF ANALYSIS A9835584

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
86801	201	202	0.6	1.84	14	190	< 0.5	< 2	0.36	1.5	19	32	39	4.70	< 10	1	0.06	< 10	0.36	2580	1
86803	201	202	0.2	2.12	12	230	< 0.5	< 2	0.35	1.5	16	35	39	3.90	< 10	< 1	0.08	< 10	0.75	1515	1
86805	201	202	< 0.2	2.05	18	180	< 0.5	< 2	0.49	1.0	20	37	30	4.32	< 10	1	0.07	< 10	0.60	2040	1
86807	201	202	0.2	2.33	30	130	< 0.5	< 2	0.51	0.5	12	35	32	6.38	< 10	< 1	0.05	< 10	0.30	700	3
86809	201	202	0.2	1.91	6	300	< 0.5	< 2	0.70	2.0	14	32	21	3.76	< 10	< 1	0.11	< 10	0.50	2240	< 1
86811	201	202	1.0	3.71	26	180	0.5	< 2	0.18	< 0.5	25	72	63	5.77	< 10	< 1	0.07	< 10	0.84	1055	1
86813	201	202	0.2	2.43	10	270	< 0.5	< 2	0.46	1.0	14	44	29	4.26	< 10	< 1	0.08	< 10	0.81	1210	< 1
86815	201	202	0.2	2.22	14	400	< 0.5	< 2	0.47	4.5	14	44	22	4.41	< 10	< 1	0.12	< 10	0.64	935	1
86817	201	202	0.4	2.47	18	220	0.5	< 2	0.73	0.5	15	41	27	4.28	< 10	< 1	0.06	< 10	0.65	985	< 1
86819	201	202	< 0.2	2.75	10	170	< 0.5	< 2	0.14	< 0.5	10	49	27	4.62	< 10	< 1	0.06	< 10	0.83	345	< 1
86821	201	202	0.2	1.99	10	380	< 0.5	< 2	0.42	1.5	20	37	20	4.52	< 10	< 1	0.08	< 10	0.54	1975	1
86823	201	202	0.2	2.52	20	230	< 0.5	< 2	0.18	< 0.5	15	47	19	4.64	< 10	< 1	0.07	< 10	0.69	1135	< 1
86825	201	202	0.2	3.51	2	180	0.5	< 2	0.10	< 0.5	14	57	27	5.04	< 10	< 1	0.07	< 10	0.88	475	< 1
86827	201	202	0.2	1.86	< 2	220	< 0.5	< 2	0.15	< 0.5	14	34	15	4.21	< 10	< 1	0.07	< 10	0.43	1560	< 1
86829	201	202	0.2	2.21	4	160	< 0.5	< 2	0.19	0.5	13	42	33	4.38	< 10	1	0.06	< 10	0.64	680	< 1
86831	201	202	0.2	1.43	< 2	180	< 0.5	< 2	1.00	0.5	6	22	14	3.07	< 10	< 1	0.03	< 10	0.36	395	1
86833	201	202	< 0.2	1.62	14	290	< 0.5	< 2	0.82	0.5	15	27	24	3.77	< 10	1	0.08	< 10	0.45	2100	1
86835	201	202	< 0.2	1.89	20	240	< 0.5	< 2	1.16	3.5	23	33	47	4.23	< 10	< 1	0.05	< 10	0.73	2150	< 1
86836	201	202	< 0.2	1.62	22	200	< 0.5	< 2	0.41	3.0	30	31	46	4.77	< 10	1	0.06	< 10	0.56	3270	1
86837	201	202	0.2	1.73	10	160	< 0.5	< 2	0.92	2.0	19	30	37	4.40	< 10	< 1	0.06	< 10	0.39	2040	1
86838	201	202	0.2	2.56	26	250	0.5	< 2	0.34	2.0	23	42	38	4.99	< 10	< 1	0.08	< 10	0.64	2440	1
86839	201	202	< 0.2	2.78	14	160	< 0.5	< 2	0.45	< 0.5	14	40	40	5.82	< 10	< 1	0.08	< 10	0.78	1000	1
86840	201	202	0.2	2.29	12	260	< 0.5	< 2	0.48	0.5	17	35	21	4.78	< 10	< 1	0.10	< 10	0.54	2060	1
86841	201	202	0.2	2.75	10	160	< 0.5	< 2	0.25	0.5	19	41	26	5.82	10	< 1	0.06	< 10	0.65	1015	< 1
86842	201	202	0.2	1.94	8	290	< 0.5	< 2	0.27	2.0	20	36	18	4.76	< 10	< 1	0.09	< 10	0.44	2670	< 1
86843	201	202	< 0.2	2.58	14	210	< 0.5	< 2	0.14	< 0.5	14	51	21	4.83	< 10	< 1	0.06	< 10	0.70	975	< 1
86844	201	202	0.2	2.22	10	200	< 0.5	< 2	0.10	< 0.5	12	41	17	4.25	< 10	1	0.10	< 10	0.49	1195	< 1
86845	201	202	0.2	3.63	6	190	0.5	< 2	0.12	< 0.5	16	63	29	6.46	< 10	< 1	0.08	< 10	0.78	730	< 1
86846	201	202	< 0.2	2.87	14	350	< 0.5	< 2	0.25	< 0.5	12	51	25	5.14	< 10	< 1	0.11	< 10	0.70	1005	1
86847	201	202	< 0.2	2.45	8	360	< 0.5	< 2	0.25	< 0.5	13	48	18	4.46	< 10	< 1	0.11	< 10	0.55	2490	< 1
86848	201	202	0.2	2.49	2	210	< 0.5	< 2	0.20	< 0.5	15	43	21	4.81	< 10	< 1	0.07	< 10	0.68	1215	1
86849	201	202	< 0.2	2.08	8	320	< 0.5	< 2	0.16	0.5	14	37	19	4.23	< 10	< 1	0.06	< 10	0.52	1635	< 1
86850	201	202	0.2	2.27	12	250	< 0.5	< 2	0.39	0.5	11	33	16	3.98	< 10	< 1	0.06	< 10	0.49	2460	1
86851	201	202	0.2	2.81	14	160	< 0.5	< 2	0.17	< 0.5	11	40	22	4.87	< 10	< 1	0.06	< 10	0.64	560	< 1
86852	201	202	0.2	2.27	10	320	< 0.5	< 2	0.26	0.5	28	28	32	4.45	< 10	< 1	0.11	< 10	0.33	6160	1
86853	201	202	< 0.2	3.70	16	370	0.5	< 2	0.64	< 0.5	20	49	67	4.96	< 10	< 1	0.37	< 10	1.02	2610	< 1
86854	201	202	< 0.2	2.99	30	260	0.5	< 2	0.58	0.5	19	42	50	4.53	< 10	< 1	0.23	< 10	0.84	2730	2
86855	201	202	0.2	4.26	14	140	0.5	< 2	0.18	< 0.5	19	48	42	5.15	< 10	< 1	0.07	< 10	0.76	570	< 1
86856	201	202	0.6	2.72	10	260	< 0.5	< 2	0.23	1.0	16	45	29	4.73	< 10	1	0.09	< 10	0.61	1860	1
86857	201	202	0.4	1.81	8	190	< 0.5	< 2	0.09	0.5	12	22	21	4.17	< 10	< 1	0.05	< 10	0.24	3140	< 1

CERTIFICATION: Hart Bichler

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

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49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
Comments: ATTN: DAVID MOLLOY

Certificate Date: 17-NOV-199
Invoice No. : I9835584
P.O. Number :
Account : KIV

CERTIFICATE OF ANALYSIS A9835584

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
86801	201	202	< 0.01	33	2280	12	< 2	2	19	0.03	< 10	< 10	70	< 10	358
86803	201	202	< 0.01	41	1190	10	2	4	16	0.01	< 10	< 10	59	< 10	236
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86807	201	202	< 0.01	20	810	10	2	3	36	0.09	< 10	< 10	107	< 10	182
86809	201	202	< 0.01	23	1750	10	< 2	3	22	0.04	< 10	< 10	69	< 10	420
86811	201	202	< 0.01	99	400	8	4	6	17	< 0.01	< 10	< 10	55	< 10	314
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86815	201	202	< 0.01	32	450	10	< 2	4	25	0.03	< 10	< 10	82	< 10	558
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86821	201	202	< 0.01	29	1120	12	< 2	3	20	0.03	< 10	< 10	70	< 10	328
86823	201	202	< 0.01	33	1110	8	4	4	10	0.03	< 10	< 10	77	< 10	384
86825	201	202	< 0.01	45	1220	6	< 2	5	7	0.01	< 10	< 10	85	< 10	260
86827	201	202	< 0.01	19	1560	12	< 2	3	9	0.04	< 10	< 10	81	< 10	196
86829	201	202	< 0.01	38	1420	10	< 2	4	10	0.01	< 10	< 10	64	< 10	210
86831	201	202	< 0.01	15	470	8	2	2	41	0.04	< 10	< 10	55	< 10	146
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86835	201	202	< 0.01	33	1300	12	2	3	40	0.03	< 10	< 10	72	< 10	418
86836	201	202	< 0.01	30	1090	12	2	4	20	0.08	< 10	< 10	102	< 10	298
86837	201	202	< 0.01	24	830	6	2	3	46	0.07	< 10	< 10	95	< 10	378
86838	201	202	< 0.01	30	1410	10	< 2	5	21	0.06	< 10	< 10	87	< 10	470
86839	201	202	< 0.01	29	2400	10	< 2	3	16	0.03	< 10	< 10	102	< 10	284
86840	201	202	< 0.01	23	2260	10	2	4	18	0.05	< 10	< 10	87	< 10	392
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86842	201	202	< 0.01	20	1700	12	6	3	12	0.07	< 10	< 10	83	< 10	546
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86845	201	202	< 0.01	39	3160	8	< 2	6	7	0.01	< 10	< 10	105	< 10	362
86846	201	202	< 0.01	33	3280	8	< 2	5	13	0.01	< 10	< 10	83	< 10	304
86847	201	202	< 0.01	28	2160	10	6	3	15	0.01	< 10	< 10	68	< 10	342
86848	201	202	< 0.01	29	2500	10	2	3	10	0.02	< 10	< 10	75	< 10	316
86849	201	202	< 0.01	25	1700	10	2	4	8	0.05	< 10	< 10	66	< 10	398
86850	201	202	< 0.01	17	1510	10	4	3	21	0.04	< 10	< 10	70	< 10	320
86851	201	202	< 0.01	23	1130	10	4	4	12	0.04	< 10	< 10	91	< 10	282
86852	201	202	< 0.01	27	2720	10	2	4	20	0.01	< 10	< 10	53	< 10	346
86853	201	202	0.07	42	1670	16	< 2	9	34	0.07	< 10	< 10	103	< 10	244
86854	201	202	0.01	42	2130	14	2	6	21	0.05	< 10	< 10	87	< 10	250
86855	201	202	< 0.01	47	1100	10	2	6	10	0.04	< 10	< 10	99	< 10	306
86856	201	202	< 0.01	39	1540	12	< 2	4	18	0.04	< 10	< 10	80	< 10	492
86857	201	202	< 0.01	16	660	10	< 2	2	9	0.03	< 10	< 10	60	< 10	162

CERTIFICATION: ____________

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
86858	201	202	0.6	2.44	16	260	< 0.5	< 2	0.08	< 0.5	19	21	36	5.55	< 10	< 1	0.03	< 10	0.41	1270	2
86859	201	202	0.6	2.40	8	130	0.5	< 2	0.07	< 0.5	22	19	41	4.28	< 10	< 1	0.05	< 10	0.50	1325	2
86860	201	202	0.6	2.09	6	360	< 0.5	< 2	0.18	< 0.5	15	27	21	4.31	< 10	1	0.05	< 10	0.44	2330	< 1
86861	201	202	0.2	2.31	6	240	< 0.5	< 2	0.30	0.5	17	34	26	4.53	< 10	< 1	0.06	< 10	0.64	2500	1
86868	201	202	0.2	1.85	12	440	< 0.5	< 2	0.78	2.5	20	28	24	4.00	< 10	1	0.09	< 10	0.47	5050	1
86869	201	202	0.2	1.77	22	460	< 0.5	< 2	1.07	2.0	20	25	24	4.13	< 10	< 1	0.12	< 10	0.39	3560	1
86870	201	202	0.4	1.60	12	390	< 0.5	< 2	0.45	2.0	24	27	49	4.82	< 10	< 1	0.09	< 10	0.27	3400	1
86871	201	202	< 0.2	2.23	20	110	0.5	< 2	0.10	< 0.5	14	32	53	4.01	< 10	< 1	0.06	< 10	0.62	960	2
86872	201	202	< 0.2	2.33	8	230	< 0.5	< 2	0.79	< 0.5	25	39	75	3.99	< 10	< 1	0.09	< 10	0.91	2640	< 1
86873	201	202	0.2	2.87	12	230	0.5	< 2	0.30	< 0.5	18	40	59	4.29	< 10	< 1	0.06	< 10	0.84	1320	< 1
86874	201	202	0.2	2.78	20	220	0.5	< 2	0.32	0.5	18	38	48	4.41	< 10	< 1	0.08	< 10	0.76	1875	1
86875	201	202	< 0.2	2.62	24	160	< 0.5	< 2	0.36	< 0.5	17	39	34	4.95	< 10	2	0.08	< 10	0.70	1635	1
86876	201	202	0.8	1.66	6	230	0.5	< 2	2.40	1.0	11	25	111	1.88	< 10	1	0.08	30	0.35	2400	< 1
86877	201	202	0.2	2.96	14	170	< 0.5	< 2	0.19	0.5	12	44	34	5.36	< 10	< 1	0.05	< 10	0.65	605	< 1
86878	201	202	0.2	2.16	12	430	< 0.5	< 2	0.21	3.5	17	34	23	4.73	< 10	< 1	0.06	< 10	0.52	2660	1
86879	201	202	0.2	2.18	6	220	< 0.5	< 2	0.09	0.5	15	31	25	4.25	< 10	< 1	0.06	< 10	0.41	1025	3
86880	201	202	0.2	2.98	8	160	< 0.5	< 2	0.24	0.5	9	49	29	6.54	< 10	< 1	0.03	< 10	0.61	350	< 1
86881	201	202	0.2	3.56	10	160	< 0.5	< 2	0.07	< 0.5	14	44	29	5.46	< 10	< 1	0.04	< 10	0.66	595	< 1
86882	201	202	< 0.2	3.20	12	160	< 0.5	< 2	0.11	< 0.5	11	42	26	4.50	< 10	< 1	0.06	< 10	0.72	575	< 1
86883	201	202	0.4	2.51	12	170	< 0.5	< 2	0.18	0.5	11	36	19	4.28	< 10	1	0.05	< 10	0.50	790	< 1
86884	201	202	0.2	2.57	14	160	0.5	< 2	0.26	0.5	16	39	47	4.06	< 10	1	0.06	< 10	0.79	1135	< 1
86885	201	202	< 0.2	1.20	4	420	< 0.5	< 2	0.37	4.0	18	23	15	3.21	< 10	< 1	0.10	< 10	0.27	2700	1
86886	201	202	< 0.2	2.35	8	180	< 0.5	< 2	0.28	2.0	17	43	23	5.30	< 10	< 1	0.06	< 10	0.77	2220	1
86887	201	202	< 0.2	1.73	16	460	< 0.5	< 2	1.17	2.5	17	30	22	3.86	< 10	< 1	0.13	< 10	0.44	4340	< 1
86888	201	202	0.2	2.76	12	210	< 0.5	< 2	0.36	1.0	15	45	24	5.76	10	< 1	0.09	< 10	0.69	1455	1
86889	201	202	< 0.2	2.46	10	360	< 0.5	< 2	0.48	1.5	15	39	20	4.68	< 10	< 1	0.08	< 10	0.56	2490	< 1
86890	201	202	< 0.2	1.78	< 2	230	< 0.5	< 2	0.36	0.5	12	27	19	3.61	< 10	< 1	0.10	< 10	0.45	1805	< 1
86891	201	202	0.2	2.85	4	170	0.5	< 2	0.06	< 0.5	20	31	48	4.49	< 10	< 1	0.04	< 10	0.64	1215	1
86892	201	202	1.0	2.97	12	140	0.5	< 2	0.07	< 0.5	22	35	29	4.27	< 10	< 1	0.03	< 10	0.61	995	1
86893	201	202	0.6	2.25	4	110	< 0.5	< 2	0.05	0.5	14	22	14	3.90	< 10	< 1	0.03	< 10	0.23	1700	< 1
86894	201	202	0.2	3.36	6	160	0.5	< 2	0.06	< 0.5	12	32	33	4.43	< 10	< 1	0.04	< 10	0.57	915	1
86895	201	202	< 0.2	3.15	22	140	0.5	< 2	0.11	< 0.5	17	44	42	4.78	< 10	1	0.04	< 10	0.76	855	< 1
86896	201	202	0.2	3.39	2	210	0.5	< 2	0.11	< 0.5	12	44	26	5.06	< 10	< 1	0.05	< 10	0.62	940	< 1
86897	201	202	0.4	2.77	< 2	250	< 0.5	< 2	0.21	0.5	13	35	23	4.71	10	< 1	0.05	< 10	0.48	1430	< 1
86898	201	202	0.2	3.00	2	180	< 0.5	< 2	0.24	< 0.5	16	37	25	5.52	10	< 1	0.06	< 10	0.69	1155	< 1
86899	201	202	0.2	2.63	< 2	190	< 0.5	< 2	0.12	< 0.5	14	39	19	5.23	10	< 1	0.04	< 10	0.62	1255	< 1
86900	201	202	0.2	3.07	20	180	< 0.5	< 2	0.16	< 0.5	13	39	25	5.61	< 10	< 1	0.04	< 10	0.65	890	1
86901	201	202	0.2	2.42	10	210	< 0.5	< 2	0.12	0.5	13	37	23	4.49	< 10	< 1	0.05	< 10	0.60	1010	< 1
86902	201	202	0.2	2.33	4	210	< 0.5	< 2	0.21	1.0	13	36	29	4.48	< 10	< 1	0.06	< 10	0.65	1140	< 1
86903	201	202	< 0.2	1.95	< 2	250	< 0.5	< 2	0.12	1.5	13	34	20	3.72	< 10	< 1	0.05	< 10	0.50	1210	< 1

CERTIFICATION: [illegible signature]

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOFINE EXPLORATION CONSULTANTS LTD.

49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
Comments: ATTN: DAVID MOLLOY

Certificate Date: 17-NOV-199
Invoice No. : I9835584
P.O. Number :
Account :KIV

CERTIFICATE OF ANALYSIS A9835584

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
86858	201	202	< 0.01	35	490	10	< 2	4	9	< 0.01	< 10	< 10	65	< 10	224
86859	201	202	< 0.01	45	1440	6	< 2	4	5	< 0.01	< 10	< 10	50	< 10	288
86860	201	202	< 0.01	20	2470	12	< 2	4	9	0.03	< 10	< 10	73	< 10	422
86861	201	202	< 0.01	24	1690	14	2	4	16	0.03	< 10	< 10	82	< 10	418
86868	201	202	< 0.01	25	1350	10	2	3	45	0.04	< 10	< 10	68	< 10	456
86869	201	202	< 0.01	26	1660	8	< 2	3	75	0.03	< 10	< 10	73	< 10	446
86870	201	202	< 0.01	28	1850	20	2	3	26	0.04	< 10	< 10	99	< 10	434
86871	201	202	< 0.01	47	350	8	< 2	6	9	0.04	< 10	< 10	52	< 10	146
86872	201	202	< 0.01	59	900	12	6	8	30	0.03	< 10	< 10	65	< 10	208
86873	201	202	< 0.01	45	1170	12	2	5	14	0.02	< 10	< 10	79	< 10	244
86874	201	202	< 0.01	47	1520	12	2	5	19	0.02	< 10	< 10	71	< 10	316
86875	201	202	< 0.01	35	1370	12	4	4	14	0.02	< 10	< 10	86	< 10	244
86876	201	202	< 0.01	43	1950	8	< 2	3	140	0.01	< 10	< 10	33	< 10	148
86877	201	202	< 0.01	33	1040	8	2	4	13	0.03	< 10	< 10	92	< 10	222
86878	201	202	< 0.01	24	1590	14	2	3	15	0.03	< 10	< 10	72	< 10	422
86879	201	202	< 0.01	22	600	12	2	3	7	0.02	< 10	< 10	66	< 10	200
86880	201	202	< 0.01	29	330	12	2	4	29	0.01	< 10	< 10	90	< 10	178
86881	201	202	< 0.01	30	1760	10	8	4	5	0.03	< 10	< 10	90	< 10	332
86882	201	202	< 0.01	34	1420	8	< 2	5	6	0.01	< 10	< 10	79	< 10	310
86883	201	202	< 0.01	21	1260	12	2	4	13	0.05	< 10	< 10	85	< 10	280
86884	201	202	< 0.01	62	760	10	4	4	13	0.03	< 10	< 10	61	< 10	190
86885	201	202	< 0.01	16	860	10	2	3	17	0.06	< 10	< 10	52	< 10	394
86886	201	202	< 0.01	30	1470	12	< 2	4	10	0.06	< 10	< 10	97	< 10	354
86887	201	202	< 0.01	21	1300	10	4	3	50	0.03	< 10	< 10	76	< 10	306
86888	201	202	< 0.01	26	1030	10	6	4	16	0.07	< 10	< 10	118	< 10	334
86889	201	202	< 0.01	22	1120	12	2	4	26	0.07	< 10	< 10	98	< 10	450
86890	201	202	< 0.01	17	1400	8	4	3	13	0.03	< 10	< 10	65	< 10	246
86891	201	202	< 0.01	59	580	10	< 2	6	5	0.01	< 10	< 10	58	< 10	212
86892	201	202	< 0.01	41	730	6	2	5	4	0.01	< 10	< 10	54	< 10	274
86893	201	202	< 0.01	16	1090	6	< 2	2	4	0.01	< 10	< 10	50	< 10	204
86894	201	202	< 0.01	45	800	6	< 2	4	4	0.01	< 10	< 10	53	< 10	304
86895	201	202	< 0.01	61	1880	6	2	5	5	0.02	< 10	< 10	61	< 10	288
86896	201	202	< 0.01	43	820	4	< 2	4	9	0.05	< 10	< 10	80	< 10	448
86897	201	202	< 0.01	24	1120	10	2	4	14	0.13	< 10	< 10	91	< 10	410
86898	201	202	< 0.01	22	1940	8	2	5	10	0.08	< 10	< 10	118	< 10	324
86899	201	202	< 0.01	22	1610	14	2	4	7	0.06	< 10	< 10	107	< 10	324
86900	201	202	< 0.01	29	2390	12	2	4	11	0.03	< 10	< 10	103	< 10	412
86901	201	202	< 0.01	32	1210	10	2	4	7	0.03	< 10	< 10	85	< 10	354
86902	201	202	< 0.01	33	1970	12	< 2	4	9	0.03	< 10	< 10	78	< 10	250
86903	201	202	< 0.01	27	1150	8	< 2	4	7	0.03	< 10	< 10	64	< 10	252

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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To: GEOFINE EXPLORATION CONSULTANTS LTD.

49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
Comments: ATTN: DAVID MOLLOY

Certificate Date: 17-NOV-1998
Invoice No. : I9835584
P.O. Number :
Account :KIV

CERTIFICATE OF ANALYSIS A9835584

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
86904	201	202	< 0.2	2.07	< 2	210	< 0.5	< 2	0.12	1.0	19	37	24	4.33	< 10	< 1	0.04	< 10	0.54	1855	< 1
86905	201	202	0.2	3.03	12	120	0.5	< 2	0.09	< 0.5	14	38	34	4.47	< 10	< 1	0.03	< 10	0.73	495	1
86906	201	202	< 0.2	1.25	< 2	350	< 0.5	< 2	0.73	17.5	24	26	18	3.72	< 10	< 1	0.10	< 10	0.32	4130	1
86907	201	202	< 0.2	1.35	< 2	340	< 0.5	< 2	0.32	3.5	17	23	14	3.38	< 10	< 1	0.08	< 10	0.25	2790	1
86908	201	202	0.2	2.35	10	170	0.5	< 2	0.18	1.5	15	35	21	4.80	< 10	< 1	0.05	< 10	0.57	1335	< 1
86909	201	202	< 0.2	1.57	4	160	< 0.5	< 2	0.21	1.5	13	27	13	4.27	< 10	< 1	0.06	< 10	0.34	1375	< 1
86910	201	202	< 0.2	2.31	6	120	< 0.5	< 2	0.32	< 0.5	10	38	18	4.33	< 10	< 1	0.07	< 10	0.58	485	1
86911	201	202	< 0.2	2.64	8	190	0.5	< 2	0.37	< 0.5	18	46	62	4.32	< 10	< 1	0.08	< 10	0.92	1145	1
86912	201	202	0.6	2.66	< 2	130	< 0.5	< 2	0.18	< 0.5	16	38	27	5.65	< 10	< 1	0.05	< 10	0.59	1125	< 1
86913	201	202	< 0.2	1.97	< 2	110	< 0.5	< 2	0.15	0.5	10	28	18	4.43	< 10	< 1	0.05	< 10	0.45	715	1
86914	201	202	< 0.2	1.83	12	140	< 0.5	< 2	0.25	0.5	10	26	18	3.69	< 10	< 1	0.07	< 10	0.48	780	< 1
86915	201	202	< 0.2	2.46	< 2	220	< 0.5	< 2	0.23	1.0	13	35	18	4.50	< 10	< 1	0.08	< 10	0.57	1415	< 1
86916	201	202	0.2	2.73	8	370	< 0.5	< 2	0.20	0.5	16	36	22	5.09	10	< 1	0.10	< 10	0.52	1315	1
86917	201	202	< 0.2	3.14	22	120	< 0.5	< 2	0.28	< 0.5	13	46	52	4.37	< 10	< 1	0.07	< 10	1.06	505	< 1
86918	201	202	< 0.2	2.70	2	270	< 0.5	< 2	0.35	1.0	18	39	21	4.53	< 10	< 1	0.12	< 10	0.63	2580	< 1
86919	201	202	0.2	2.81	8	210	< 0.5	< 2	0.28	0.5	14	42	24	4.84	< 10	< 1	0.09	< 10	0.72	1165	< 1
86920	201	202	0.2	2.48	8	230	< 0.5	< 2	0.16	2.5	17	38	20	4.64	< 10	< 1	0.08	< 10	0.58	1370	< 1
86921	201	202	0.2	2.89	< 2	390	< 0.5	< 2	0.22	2.0	13	48	21	5.20	< 10	< 1	0.12	< 10	0.58	875	< 1
86922	201	202	< 0.2	2.53	< 2	410	< 0.5	< 2	0.30	2.0	18	44	23	4.47	< 10	< 1	0.13	< 10	0.61	2140	< 1
86923	201	202	< 0.2	2.34	2	170	< 0.5	< 2	0.25	0.5	14	30	30	3.82	< 10	< 1	0.09	< 10	0.59	880	1
86924	201	202	< 0.2	2.54	12	110	< 0.5	< 2	0.09	0.5	19	28	41	3.99	< 10	< 1	0.08	< 10	0.66	1150	3
86925	201	202	< 0.2	3.17	20	270	< 0.5	< 2	0.51	0.5	16	40	26	4.82	< 10	< 1	0.30	< 10	0.75	1745	< 1
86926	201	202	0.2	4.01	16	250	0.5	< 2	0.17	0.5	15	48	41	5.86	10	< 1	0.08	< 10	0.87	1050	1
86927	201	202	< 0.2	3.57	18	240	0.5	< 2	0.15	0.5	16	42	66	4.96	< 10	< 1	0.07	< 10	0.78	1085	2
86928	201	202	< 0.2	2.89	4	150	< 0.5	< 2	0.16	0.5	16	35	18	4.19	< 10	< 1	0.07	< 10	0.70	855	< 1
86929	201	202	0.2	2.54	< 2	180	< 0.5	< 2	0.10	1.0	14	48	17	4.37	< 10	< 1	0.10	< 10	0.46	1960	1
86930	201	202	0.2	3.53	4	230	0.5	< 2	0.14	< 0.5	23	61	29	5.82	10	< 1	0.12	< 10	0.73	905	< 1
86931	201	202	0.2	3.30	< 2	230	< 0.5	< 2	0.12	0.5	12	49	32	4.89	< 10	< 1	0.09	< 10	0.74	815	< 1
86932	201	202	0.2	2.88	2	210	< 0.5	< 2	0.13	0.5	14	48	26	4.24	< 10	< 1	0.10	< 10	0.76	1160	< 1
86933	201	202	< 0.2	2.60	6	150	< 0.5	< 2	0.09	< 0.5	11	44	24	4.58	< 10	< 1	0.08	< 10	0.65	585	< 1
86934	201	202	0.4	2.84	2	220	< 0.5	< 2	0.15	0.5	19	47	27	5.07	< 10	< 1	0.13	< 10	0.68	985	1
86935	201	202	0.2	1.80	6	140	< 0.5	< 2	0.09	0.5	12	33	14	3.66	< 10	< 1	0.07	< 10	0.40	895	1
86936	201	202	< 0.2	2.54	< 2	320	< 0.5	< 2	0.30	2.0	14	41	18	4.41	< 10	< 1	0.10	< 10	0.68	980	< 1
86937	201	202	0.2	2.92	4	360	< 0.5	< 2	0.37	2.0	14	43	21	4.63	< 10	< 1	0.17	< 10	0.77	975	< 1
86938	201	202	< 0.2	3.15	< 2	250	< 0.5	< 2	0.14	< 0.5	12	50	23	5.27	10	< 1	0.12	< 10	0.71	715	< 1
86939	201	202	0.2	2.01	< 2	280	< 0.5	< 2	0.29	2.0	17	33	16	3.89	< 10	< 1	0.10	< 10	0.40	1400	1
86940	201	202	0.2	3.01	< 2	290	< 0.5	< 2	0.15	0.5	14	49	17	4.98	10	< 1	0.09	< 10	0.57	945	< 1
86941	201	202	0.4	3.15	< 2	200	< 0.5	< 2	0.11	0.5	16	57	19	5.78	10	< 1	0.14	< 10	0.62	830	< 1
86942	201	202	< 0.2	2.94	< 2	150	< 0.5	< 2	0.09	0.5	11	55	17	3.90	< 10	< 1	0.11	< 10	0.82	470	< 1
86943	201	202	0.2	2.44	2	320	< 0.5	< 2	0.21	1.0	16	49	22	4.11	< 10	< 1	0.15	< 10	0.52	2810	< 1

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

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CERTIFICATE OF ANALYSIS A9835584

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
86904	201	202	< 0.01	32	1090	12	4	3	8	0.03	< 10	< 10	73	< 10	374
86905	201	202	< 0.01	50	300	8	2	5	7	0.04	< 10	< 10	70	< 10	134
86906	201	202	< 0.01	19	1650	14	6	2	30	0.03	< 10	< 10	60	< 10	378
86907	201	202	< 0.01	18	1500	10	< 2	1	17	0.01	< 10	< 10	48	< 10	256
86908	201	202	< 0.01	24	2140	8	2	3	8	0.04	< 10	< 10	84	< 10	338
86909	201	202	< 0.01	15	1230	14	< 2	2	13	0.08	< 10	< 10	87	< 10	288
86910	201	202	< 0.01	25	1790	14	< 2	4	14	0.03	< 10	< 10	86	< 10	250
86911	201	202	< 0.01	55	780	8	2	7	15	0.03	< 10	< 10	81	< 10	186
86912	201	202	< 0.01	25	2470	10	2	4	9	0.04	< 10	< 10	109	< 10	264
86913	201	202	< 0.01	17	1930	10	< 2	3	7	0.06	< 10	< 10	93	< 10	174
86914	201	202	< 0.01	18	1410	12	2	3	12	0.09	< 10	< 10	83	< 10	172
86915	201	202	< 0.01	20	1560	8	4	4	13	0.07	< 10	< 10	100	< 10	310
86916	201	202	< 0.01	19	1860	12	2	5	13	0.11	< 10	< 10	113	< 10	348
86917	201	202	< 0.01	44	500	6	< 2	6	14	0.05	< 10	< 10	104	< 10	140
86918	201	202	< 0.01	23	2060	10	< 2	4	16	0.06	< 10	< 10	102	< 10	422
86919	201	202	< 0.01	25	2020	12	< 2	5	13	0.06	< 10	< 10	113	< 10	318
86920	201	202	< 0.01	24	1740	6	2	4	11	0.05	< 10	< 10	95	< 10	448
86921	201	202	< 0.01	32	2620	10	4	5	11	0.03	< 10	< 10	94	< 10	390
86922	201	202	< 0.01	34	2190	10	< 2	4	16	0.03	< 10	< 10	76	< 10	466
86923	201	202	< 0.01	36	550	6	< 2	4	13	0.03	< 10	< 10	62	< 10	172
86924	201	202	< 0.01	41	260	10	< 2	5	7	0.04	< 10	< 10	56	< 10	194
86925	201	202	0.04	28	2410	10	< 2	6	25	0.06	< 10	< 10	95	< 10	466
86926	201	202	< 0.01	42	2210	10	< 2	6	10	0.04	< 10	< 10	116	< 10	298
86927	201	202	< 0.01	52	860	8	< 2	6	10	0.03	< 10	< 10	92	< 10	218
86928	201	202	< 0.01	23	780	6	< 2	5	10	0.07	< 10	< 10	97	< 10	328
86929	201	202	< 0.01	24	1750	8	< 2	4	9	0.04	< 10	< 10	85	< 10	286
86930	201	202	< 0.01	41	2860	8	2	5	9	0.02	< 10	< 10	105	< 10	382
86931	201	202	< 0.01	40	1540	8	< 2	5	8	0.01	< 10	< 10	94	< 10	238
86932	201	202	< 0.01	43	1030	10	2	5	8	0.04	< 10	< 10	87	< 10	220
86933	201	202	< 0.01	31	1370	8	< 2	4	7	0.03	< 10	< 10	89	< 10	220
86934	201	202	< 0.01	32	2450	10	4	5	8	0.04	< 10	< 10	98	< 10	270
86935	201	202	< 0.01	18	710	8	2	3	7	0.04	< 10	< 10	80	< 10	204
86936	201	202	< 0.01	32	2050	8	2	4	14	0.02	< 10	< 10	80	< 10	444
86937	201	202	< 0.01	32	2390	10	4	4	15	0.02	< 10	< 10	90	< 10	370
86938	201	202	< 0.01	31	2040	8	< 2	3	11	0.03	< 10	< 10	112	< 10	272
86939	201	202	< 0.01	20	1250	10	2	3	17	0.06	< 10	< 10	76	< 10	390
86940	201	202	< 0.01	27	2270	10	2	3	10	0.06	< 10	< 10	91	< 10	408
86941	201	202	< 0.01	29	3750	12	4	4	7	0.03	< 10	< 10	110	< 10	262
86942	201	202	< 0.01	36	1380	8	< 2	5	5	0.01	< 10	< 10	80	< 10	316
86943	201	202	< 0.01	31	1570	10	< 2	4	11	0.03	< 10	< 10	83	< 10	352

CERTIFICATION: [signature]

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOFINE EXPLORATION CONSULTANTS LTD.

49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
Comments: ATTN: DAVID MOLLOY

Certificate Date: 17-NOV-1998
Invoice No. : I9835584
P.O. Number :
Account :KIV

CERTIFICATE OF ANALYSIS A9835584

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
598939	201	202	0.2	3.04	16	360	0.5	< 2	0.17	0.5	24	38	40	4.58	< 10	< 1	0.08	< 10	0.78	3340	1
598941	201	202	0.6	2.26	6	480	< 0.5	< 2	0.30	2.0	22	43	25	4.44	< 10	< 1	0.16	< 10	0.44	4240	< 1
598943	201	202	0.2	2.53	54	160	0.5	< 2	0.40	0.5	16	42	51	4.15	< 10	1	0.08	< 10	0.72	1275	2
598946	201	202	0.2	2.64	14	220	< 0.5	< 2	0.08	< 0.5	19	34	27	4.62	< 10	< 1	0.07	< 10	0.48	1230	< 1
598948	201	202	0.6	2.73	16	260	0.5	< 2	0.13	1.0	23	24	50	4.71	< 10	< 1	0.11	< 10	0.63	2410	< 1
598950	201	202	0.6	1.71	8	230	< 0.5	< 2	0.47	0.5	10	25	47	3.78	< 10	< 1	0.07	< 10	0.36	1385	1
598952	201	202	0.2	1.44	16	410	< 0.5	< 2	0.99	2.5	14	21	41	3.57	< 10	< 1	0.11	< 10	0.21	2810	< 1
598954	201	202	< 0.2	2.45	18	140	0.5	< 2	0.28	< 0.5	15	32	39	3.81	< 10	< 1	0.11	< 10	0.71	1245	1
598956	201	202	0.4	2.06	22	110	0.5	< 2	0.21	< 0.5	16	28	39	3.64	< 10	< 1	0.09	< 10	0.70	1040	2
598958	201	202	0.2	3.32	16	140	0.5	< 2	0.29	< 0.5	37	24	111	5.70	< 10	< 1	0.10	10	0.78	4910	3
600381	201	202	0.2	2.99	2	240	0.5	< 2	0.17	0.5	14	52	24	5.30	< 10	< 1	0.10	< 10	0.63	715	1
600383	201	202	< 0.2	2.97	14	210	< 0.5	< 2	0.15	0.5	16	49	31	4.87	< 10	< 1	0.10	< 10	0.68	1690	1
600385	201	202	< 0.2	2.93	8	210	< 0.5	< 2	0.22	1.0	13	47	28	4.93	< 10	< 1	0.07	< 10	0.75	910	1
600387	201	202	< 0.2	3.23	< 2	200	< 0.5	< 2	0.08	0.5	14	50	18	4.71	< 10	< 1	0.08	< 10	0.74	580	< 1
600389	201	202	0.2	3.83	2	140	< 0.5	< 2	0.08	< 0.5	15	53	27	5.41	< 10	< 1	0.08	< 10	0.82	455	< 1
600391	201	202	0.2	3.72	8	150	< 0.5	< 2	0.05	0.5	20	61	24	6.29	10	< 1	0.10	< 10	0.69	1600	< 1
600393	201	202	0.2	2.42	4	210	0.5	< 2	0.10	0.5	20	42	18	5.08	< 10	< 1	0.07	< 10	0.38	1850	< 1
600394	201	202	2.0	2.31	18	270	< 0.5	< 2	0.28	2.0	21	27	46	4.58	< 10	< 1	0.07	< 10	0.48	2420	1
600396	201	202	0.8	2.45	16	420	0.5	< 2	0.46	3.5	24	32	37	4.52	< 10	2	0.11	< 10	0.50	6120	1
600398	201	202	2.0	1.59	14	230	< 0.5	< 2	0.23	1.5	11	28	27	3.86	< 10	< 1	0.06	< 10	0.26	1335	< 1
600400	201	202	0.2	2.35	2	180	< 0.5	< 2	0.14	0.5	18	37	21	4.18	< 10	< 1	0.09	< 10	0.41	1420	< 1
630984	201	202	0.4	2.72	12	240	0.5	< 2	0.60	0.5	17	49	52	4.67	< 10	1	0.13	< 10	0.93	1305	1
630986	201	202	< 0.2	2.90	< 2	190	< 0.5	< 2	0.28	< 0.5	14	46	17	3.99	< 10	< 1	0.10	< 10	0.68	670	< 1
630988	201	202	0.2	2.95	16	330	< 0.5	< 2	0.17	1.5	16	39	20	4.75	< 10	< 1	0.06	< 10	0.56	2820	1
630990	201	202	0.2	2.22	18	130	< 0.5	< 2	0.11	0.5	10	31	18	4.37	< 10	< 1	0.07	< 10	0.40	935	3
630993	201	202	< 0.2	2.50	16	150	< 0.5	< 2	0.49	< 0.5	17	51	59	4.19	< 10	< 1	0.14	< 10	1.24	725	1
630995	201	202	< 0.2	2.57	10	170	< 0.5	< 2	0.50	< 0.5	21	49	55	4.24	< 10	< 1	0.13	< 10	1.18	930	2
630997	201	202	0.2	2.73	12	300	< 0.5	< 2	0.22	1.5	16	47	19	4.42	< 10	< 1	0.14	< 10	0.58	2030	1
630999	201	202	0.2	2.72	8	190	< 0.5	< 2	0.09	< 0.5	14	47	18	4.53	< 10	< 1	0.10	< 10	0.52	950	1

CERTIFICATION: [illegible]

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOFINE EXPLORATION CONSULTANTS LTD.

49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
Comments: ATTN: DAVID MOLLOY

Certificate Date: 17-NOV-1998
Invoice No. : I9835584
P.O. Number :
Account :KIV

CERTIFICATE OF ANALYSIS A9835584

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
598939	201	202	< 0.01	75	1610	8	< 2	5	11	0.01	< 10	< 10	78	< 10	544
598941	201	202	< 0.01	35	2210	10	< 2	4	17	0.04	< 10	< 10	76	< 10	456
598943	201	202	< 0.01	55	1120	12	2	5	20	0.03	< 10	< 10	73	< 10	212
598946	201	202	< 0.01	22	770	8	< 2	4	10	0.04	< 10	< 10	99	< 10	176
598948	201	202	< 0.01	53	1880	8	2	5	11	0.01	< 10	< 10	77	< 10	274
598950	201	202	< 0.01	35	570	6	2	3	24	0.05	< 10	< 10	71	< 10	150
598952	201	202	< 0.01	26	590	10	< 2	3	43	0.04	< 10	< 10	78	< 10	202
598954	201	202	< 0.01	41	540	8	2	6	16	0.04	< 10	< 10	63	< 10	120
598956	201	202	< 0.01	42	480	8	< 2	5	12	0.04	< 10	< 10	59	< 10	136
598958	201	202	< 0.01	85	610	14	6	8	14	0.05	< 10	< 10	74	< 10	304
600381	201	202	< 0.01	40	1520	12	< 2	4	12	0.03	< 10	< 10	89	< 10	380
600383	201	202	< 0.01	39	1430	8	< 2	5	7	0.01	< 10	< 10	90	< 10	222
600385	201	202	< 0.01	42	1500	6	< 2	5	14	0.01	< 10	< 10	92	< 10	278
600387	201	202	< 0.01	34	990	8	< 2	5	8	0.04	< 10	< 10	91	< 10	428
600389	201	202	< 0.01	40	1800	4	< 2	6	5	0.03	< 10	< 10	103	< 10	318
600391	201	202	< 0.01	32	3460	8	< 2	6	5	0.03	< 10	< 10	115	< 10	396
600393	201	202	< 0.01	22	2770	12	< 2	4	6	0.11	< 10	< 10	90	< 10	352
600394	201	202	< 0.01	44	1660	10	< 2	4	13	0.02	< 10	< 10	74	< 10	382
600396	201	202	< 0.01	43	2530	10	< 2	3	19	0.02	< 10	< 10	68	< 10	668
600398	201	202	< 0.01	19	1080	10	< 2	1	16	0.05	< 10	< 10	76	< 10	252
600400	201	202	< 0.01	22	1700	10	2	4	8	0.03	< 10	< 10	83	< 10	224
630984	201	202	< 0.01	56	1700	10	< 2	6	19	0.02	< 10	< 10	85	< 10	252
630986	201	202	< 0.01	31	1270	4	2	4	14	0.03	< 10	< 10	85	< 10	358
630988	201	202	< 0.01	25	1820	14	< 2	5	9	0.07	< 10	< 10	105	< 10	456
630990	201	202	< 0.01	17	1320	10	4	4	8	0.09	< 10	< 10	109	< 10	196
630993	201	202	< 0.01	64	560	6	< 2	9	18	0.04	< 10	< 10	78	< 10	124
630995	201	202	< 0.01	55	710	8	2	8	19	0.03	< 10	< 10	79	< 10	136
630997	201	202	< 0.01	30	1610	8	2	4	11	0.05	< 10	< 10	90	< 10	366
630999	201	202	< 0.01	28	1090	8	< 2	4	7	0.03	< 10	< 10	94	< 10	278

CERTIFICATION: [signature]

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOFINE EXPLORATION CONSULTANTS LTD.

49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
Comments: ATTN: DAVID E. MOLLOY

P[illegible] Number : 1-A
To[illegible] Pages : 2
Certificate Date: 20-OCT-19[illegible]
Invoice No. : I9833251
P.O. Number :
Account : KIV

CERTIFICATE OF ANALYSIS A9833251

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
86802	201	202	0.4	1.97	16	440	< 0.5	< 2	1.13	5.5	22	30	30	3.99	< 10	< 1	0.13	< 10	0.51	3550	3
86804	201	202	< 0.2	2.80	26	120	< 0.5	< 2	0.52	0.5	14	42	31	5.77	< 10	< 1	0.08	< 10	0.57	570	4
86806	201	202	< 0.2	2.45	18	360	< 0.5	< 2	0.38	3.0	27	35	30	4.89	< 10	< 1	0.10	< 10	0.43	3550	1
86808	201	202	0.2	1.43	12	370	< 0.5	< 2	0.36	3.0	19	22	19	3.17	< 10	< 1	0.05	< 10	0.21	3790	2
86810	201	202	0.2	2.47	24	220	< 0.5	< 2	0.86	0.5	14	40	50	4.46	< 10	< 1	0.18	< 10	0.88	1115	1
86812	201	202	0.2	2.88	16	210	0.5	< 2	0.87	1.5	16	50	65	4.32	< 10	1	0.10	< 10	0.72	1325	2
86814	201	202	< 0.2	1.85	12	410	< 0.5	< 2	1.39	3.0	18	33	32	3.83	< 10	< 1	0.16	< 10	0.56	2220	1
86816	201	202	0.2	2.32	14	290	< 0.5	< 2	0.42	1.0	15	40	30	4.01	< 10	< 1	0.14	< 10	0.67	1225	1
86818	201	202	< 0.2	1.68	8	230	< 0.5	< 2	0.25	1.5	23	36	24	3.69	< 10	< 1	0.13	< 10	0.44	1955	1
86820	201	202	< 0.2	2.55	12	230	< 0.5	< 2	0.48	0.5	11	42	21	4.50	< 10	< 1	0.12	< 10	0.65	485	1
86822	201	202	< 0.2	2.35	10	330	< 0.5	< 2	0.35	1.5	16	40	21	4.12	< 10	< 1	0.10	< 10	0.59	1600	1
86824	201	202	0.2	2.86	12	160	< 0.5	< 2	0.11	< 0.5	11	45	18	4.79	< 10	< 1	0.07	< 10	0.71	390	< 1
86826	201	202	< 0.2	2.34	8	230	< 0.5	< 2	0.19	0.5	10	37	16	3.59	< 10	< 1	0.08	< 10	0.55	770	< 1
86828	201	202	< 0.2	3.63	12	200	< 0.5	< 2	0.09	0.5	14	62	28	5.07	< 10	< 1	0.10	< 10	0.91	635	< 1
86830	201	202	< 0.2	0.92	8	90	< 0.5	< 2	0.42	0.5	6	15	12	2.36	< 10	< 1	0.06	< 10	0.17	335	2
86832	201	202	< 0.2	1.82	22	270	< 0.5	< 2	0.75	2.5	21	30	21	4.47	< 10	< 1	0.09	< 10	0.39	2520	2
86834	201	202	0.2	3.09	18	260	< 0.5	< 2	0.27	< 0.5	18	51	32	5.06	< 10	< 1	0.16	< 10	0.90	890	1
598938	201	202	0.2	2.87	20	200	< 0.5	< 2	0.15	0.5	15	41	30	5.00	< 10	< 1	0.09	< 10	0.59	1280	1
598940	201	202	0.2	2.88	22	310	0.5	< 2	0.30	1.5	26	39	48	4.59	< 10	< 1	0.12	< 10	0.75	3680	2
598942	201	202	0.2	2.97	10	380	< 0.5	< 2	0.20	1.5	24	46	31	4.39	< 10	< 1	0.14	< 10	0.57	2960	1
598944	201	202	0.2	1.40	10	240	< 0.5	< 2	1.52	1.5	13	22	42	2.66	< 10	< 1	0.10	< 10	0.41	2240	3
598945	201	202	0.8	2.52	14	230	< 0.5	< 2	0.10	0.5	16	29	19	4.88	< 10	< 1	0.06	< 10	0.30	2400	1
598947	201	202	< 0.2	2.46	22	160	< 0.5	< 2	0.14	< 0.5	14	29	27	5.05	< 10	< 1	0.08	< 10	0.49	905	2
598949	201	202	0.2	1.09	18	210	< 0.5	< 2	0.19	0.5	12	15	29	3.66	< 10	< 1	0.10	< 10	0.10	1225	1
598951	201	202	0.6	2.60	26	150	0.5	< 2	0.19	1.0	19	32	52	5.06	< 10	< 1	0.09	< 10	0.35	2920	3
598953	201	202	< 0.2	0.46	10	140	< 0.5	< 2	0.35	0.5	3	7	40	1.16	< 10	< 1	0.06	< 10	0.05	130	1
598955	201	202	1.0	2.34	16	200	< 0.5	< 2	0.50	0.5	12	29	23	3.89	< 10	< 1	0.11	< 10	0.65	755	< 1
598957	201	202	0.6	1.98	12	220	0.5	< 2	0.94	3.0	28	26	67	3.97	< 10	< 1	0.06	10	0.28	5570	3
598959	201	202	0.2	2.14	20	210	0.5	< 2	0.63	0.5	36	22	66	4.84	< 10	< 1	0.11	10	0.74	3260	4
600382	201	202	0.2	2.78	10	260	< 0.5	< 2	0.16	0.5	12	45	22	4.59	< 10	< 1	0.10	< 10	0.67	1395	2
600384	201	202	0.2	3.55	16	200	< 0.5	< 2	0.20	1.5	12	52	26	5.41	< 10	< 1	0.12	< 10	0.79	525	2
600385	201	202	0.2	3.05	20	260	< 0.5	< 2	0.32	1.0	17	46	41	4.85	< 10	< 1	0.11	< 10	0.85	1060	1
600386	201	202	0.2	1.55	4	280	< 0.5	< 2	0.32	2.0	10	25	13	3.34	< 10	< 1	0.11	< 10	0.25	2440	1
600388	201	202	0.2	3.55	14	180	0.5	< 2	0.07	0.5	14	54	24	5.58	< 10	< 1	0.10	< 10	0.74	695	1
600390	201	202	0.2	3.29	14	110	< 0.5	< 2	0.09	0.5	21	54	25	5.82	< 10	< 1	0.10	< 10	0.75	1295	1
600392	201	202	0.6	3.54	20	120	< 0.5	< 2	0.06	0.5	11	57	25	7.70	< 10	< 1	0.07	< 10	0.54	520	2
600395	201	202	1.2	1.69	8	360	< 0.5	< 2	0.38	1.5	17	19	21	3.62	< 10	< 1	0.10	< 10	0.27	3420	2
600397	201	202	2.0	2.64	24	180	< 0.5	< 2	0.44	0.5	12	39	31	5.97	< 10	1	0.07	< 10	0.55	705	1
600399	201	202	0.4	2.04	8	210	< 0.5	< 2	0.09	0.5	12	30	16	3.79	< 10	< 1	0.08	< 10	0.44	1020	1
630967	201	202	0.2	2.98	12	100	< 0.5	< 2	0.06	0.5	12	44	23	5.16	< 10	< 1	0.06	< 10	0.62	595	1

CERTIFICATION: [illegible]

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L3R 4J8

Project :
Comments: ATTN: DAVID E. MOLLOY

Certificate Date: 20-OCT-1998
Invoice No. : I9833251
P.O. Number :
Account : KIV

CERTIFICATE OF ANALYSIS A9833251

SAMPLE	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
86802	201 202	< 0.01	30	2060	8	< 2	3	43	0.06	< 10	< 10	65	< 10	538
86804	201 202	< 0.01	12	1570	6	< 2	4	31	0.04	< 10	< 10	94	< 10	178
86806	201 202	< 0.01	29	1390	8	< 2	4	28	0.08	< 10	< 10	93	< 10	584
86808	201 202	< 0.01	14	1520	10	< 2	4	18	0.06	< 10	< 10	50	< 10	350
86810	201 202	< 0.01	46	2310	10	< 2	4	27	0.03	< 10	< 10	76	< 10	172
86812	201 202	< 0.01	47	960	2	< 2	6	44	0.06	< 10	< 10	77	< 10	236
86814	201 202	< 0.01	10	1440	5	< 2	2	48	0.03	< 10	< 10	74	< 10	348
86816	201 202	< 0.01	41	1420	8	< 2	4	19	0.05	< 10	< 10	48	< 10	302
86818	201 202	< 0.01	38	920	6	< 2	3	14	0.03	< 10	< 10	66	< 10	210
86820	201 202	< 0.01	40	1510	6	< 2	3	19	0.03	< 10	< 10	83	< 10	228
86822	201 202	< 0.01	33	590	4	< 2	5	17	0.06	< 10	< 10	73	< 10	198
86824	201 202	< 0.01	32	2120	4	< 2	4	7	0.03	< 10	< 10	35	< 10	206
86826	201 202	< 0.01	27	1330	6	< 2	3	12	0.04	< 10	< 10	67	< 10	206
86828	201 202	< 0.01	54	1100	8	< 2	5	8	0.02	< 10	< 10	94	< 10	336
86830	201 202	< 0.01	9	510	3	< 2	1	33	0.09	< 10	< 10	80	< 10	70
86832	201 202	< 0.01	29	1520	10	< 2	7	34	0.10	< 10	< 10	76	< 10	412
86834	201 202	< 0.01	48	1570	6	< 2	5	16	0.03	< 10	< 10	92	< 10	252
598938	201 202	< 0.01	36	1070	8	< 2	4	17	0.05	< 10	< 10	56	< 10	384
598940	201 202	< 0.01	77	1470	4	< 2	5	16	0.03	< 10	< 10	77	< 10	422
598942	201 202	< 0.01	51	1470	8	< 2	5	15	0.03	< 10	< 10	78	< 10	346
598944	201 202	< 0.01	36	1080	2	< 2	3	6	0.04	< 10	< 10	54	< 10	138
598945	201 202	< 0.01	14	1840	12	< 2	3	9	0.05	< 10	< 10	96	< 10	364
598947	201 202	< 0.01	26	560	2	< 2	4	13	0.01	< 10	< 10	79	< 10	[illegible]
598949	201 202	< 0.01	10	1130	6	< 2	1	10	0.02	< 10	< 10	49	< 10	188
598951	201 202	< 0.01	39	1140	4	< 2	4	14	0.02	< 10	< 10	55	< 10	174
598953	201 202	< 0.01	19	470	2	< 2	< 1	22	0.01	< 10	< 10	34	< 10	50
598955	201 202	< 0.01	33	920	2	< 2	[illegible]	27	[illegible]	< 10	< 10	70	< 10	310
598957	201 202	< 0.01	41	1360	8	< 2	3	43	0.04	< 10	< 10	54	< 10	386
598959	201 202	< 0.01	30	1320	10	< 2	6	36	0.04	< 10	< 10	61	< 10	318
600382	201 202	< 0.01	37	2730	10	< 2	4	16	0.02	< 10	< 10	85	< 10	264
600384	201 202	< 0.01	43	3210	6	< 2	4	11	0.02	< 10	< 10	91	< 10	288
600385	201 202	< 0.01	49	1750	3	< 2	5	33	0.03	< 10	< 10	64	< 10	290
600386	201 202	< 0.01	14	1420	6	< 2	1	15	0.05	< 10	< 10	76	< 10	218
600388	201 202	< 0.01	40	1460	6	< 2	3	6	0.04	< 10	< 10	98	< 10	416
600390	201 202	< 0.01	41	2550	8	< 2	5	8	0.03	< 10	< 10	106	< 10	264
600392	201 202	< 0.01	26	5310	6	< 2	5	5	0.03	< 10	< 10	125	< 10	252
600395	201 202	< 0.01	28	1840	6	2	1	18	0.03	< 10	< 10	55	< 10	364
600397	201 202	< 0.01	32	560	6	< 2	3	22	0.03	< 10	< 10	109	< 10	324
600399	201 202	< 0.01	22	1500	6	< 2	1	7	0.02	< 10	< 10	70	< 10	328
630967	201 202	< 0.01	31	2190	4	< 2	4	5	0.03	< 10	< 10	62	< 10	176

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOFINE EXPLORATION CONSULTANTS LTD.

49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
Comments: ATTN: DAVID E. MOLLOY

Pa... Number :2-A
Total Pages :2
Certificate Date: 20-OCT-199
Invoice No. :I9833251
P.O. Number :
Account :KIV

CERTIFICATE OF ANALYSIS A9833251

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
630968	201	202	< 0.2	2.45	10	140	< 0.5	< 2	0.09	< 0.5	12	37	21	4.36	< 10	< 1	0.06	< 10	0.50	760	1
630969	201	202	0.2	2.88	24	310	< 0.5	< 2	0.35	0.5	19	39	65	4.37	< 10	< 1	0.09	< 10	0.87	1300	3
630970	201	202	0.2	3.18	50	270	0.5	< 2	0.30	0.5	19	38	44	4.66	< 10	< 1	0.08	< 10	0.66	1345	2
630971	201	202	< 0.2	3.18	20	250	< 0.5	< 2	0.19	0.5	13	42	36	4.68	< 10	< 1	0.07	< 10	0.77	850	1
630972	201	202	0.2	2.66	14	260	< 0.5	< 2	0.45	1.0	15	39	32	4.26	< 10	< 1	0.12	< 10	0.73	1265	1
630973	201	202	0.2	2.34	34	190	< 0.5	< 2	0.30	3.0	20	38	35	5.47	< 10	< 1	0.09	< 10	0.57	1375	1
630974	201	202	0.2	1.91	12	380	< 0.5	< 2	0.68	5.0	36	34	50	3.95	< 10	< 1	0.09	< 10	0.42	3740	2
630975	201	202	0.2	1.75	8	160	< 0.5	< 2	0.47	2.0	17	25	16	3.93	< 10	< 1	0.10	< 10	0.36	2210	2
630976	201	202	0.2	2.12	14	340	< 0.5	< 2	0.61	2.5	19	36	38	3.98	< 10	< 1	0.13	< 10	0.68	2440	1
630977	201	202	0.2	2.28	22	230	< 0.5	< 2	0.45	1.0	15	33	34	4.54	< 10	< 1	0.06	< 10	0.57	1345	1
630978	201	202	0.2	1.16	126	140	< 0.5	< 2	1.00	1.0	6	23	52	4.07	< 10	< 1	0.07	< 10	0.19	460	5
630979	201	202	0.2	1.52	24	80	< 0.5	< 2	0.23	0.5	15	21	66	4.54	< 10	< 1	0.05	< 10	0.26	1355	3
630980	201	202	0.6	2.77	18	330	0.5	< 2	0.27	0.5	24	20	43	4.66	< 10	< 1	0.11	< 10	0.62	4560	2
630981	201	202	0.2	3.14	24	210	< 0.5	< 2	0.16	< 0.5	17	32	31	4.60	< 10	< 1	0.10	< 10	0.64	1110	2
630982	201	202	0.2	2.76	22	180	0.5	< 2	0.06	< 0.5	32	23	92	5.15	< 10	< 1	0.11	20	0.77	3650	4
630983	201	202	0.8	2.29	12	110	< 0.5	< 2	0.09	0.5	9	22	20	5.01	< 10	< 1	0.06	< 10	0.29	640	1
630987	201	202	< 0.2	2.56	8	180	< 0.5	< 2	0.14	1.0	13	34	16	4.27	< 10	< 1	0.07	< 10	0.61	570	< 1
630989	201	202	0.4	3.16	24	190	< 0.5	< 2	0.17	1.5	16	37	26	5.66	< 10	< 1	0.11	< 10	0.68	1360	< 1
630991	201	202	< 0.2	3.73	18	170	0.5	< 2	0.13	< 0.5	15	59	36	5.66	< 10	< 1	0.09	< 10	0.89	695	1
630992	201	202	< 0.2	2.34	16	130	< 0.5	< 2	0.47	< 0.5	16	45	54	4.04	< 10	< 1	0.12	< 10	1.20	650	1
630994	201	202	< 0.2	2.45	18	170	< 0.5	< 2	0.62	0.5	20	48	66	4.15	< 10	< 1	0.15	< 10	1.17	1005	2
630996	201	202	< 0.2	2.49	16	160	0.5	< 2	0.41	0.5	19	48	52	4.25	< 10	< 1	0.12	< 10	0.92	955	2
630998	201	202	< 0.2	3.49	14	180	0.5	< 2	0.15	0.5	17	56	61	4.81	< 10	< 1	0.10	< 10	1.01	730	1
631000	201	202	0.2	2.70	12	180	< 0.5	< 2	0.12	0.5	16	48	22	5.10	< 10	< 1	0.09	< 10	0.63	1065	1

CERTIFICATION: Hart Richler

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOFINE EXPLORATION CONSULTANTS LTD.
49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
Comments: ATTN: DAVID E. MOLLOY

Certificate Date: 20-OCT-19
Invoice No. : I9833251
P.O. Number :
Account :KIV

CERTIFICATE OF ANALYSIS A9833251

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
630968	201	202	< 0.01	27	1550	10	< 2	4	8	0.04	< 10	< 10	86	< 10	200
630969	201	202	< 0.01	48	920	26	< 2	7	14	0.06	< 10	< 10	83	< 10	204
630970	201	202	< 0.01	32	1470	10	< 2	5	13	0.06	< 10	< 10	108	< 10	230
630971	201	202	< 0.01	36	1490	8	< 2	5	12	0.04	< 10	< 10	91	< 10	370
630972	201	202	< 0.01	38	1240	8	< 2	4	18	0.06	< 10	< 10	78	< 10	356
630973	201	202	< 0.01	25	1760	8	< 2	4	20	0.10	< 10	< 10	101	< 10	422
630974	201	202	< 0.01	55	1290	6	< 2	3	39	0.03	< 10	< 10	56	< 10	342
630975	201	202	< 0.01	16	1290	12	< 2	2	19	0.06	< 10	< 10	71	< 10	266
630976	201	202	< 0.01	41	1770	12	< 2	4	30	0.02	< 10	< 10	63	< 10	244
630977	201	202	< 0.01	33	640	10	< 2	4	20	0.05	< 10	< 10	87	< 10	178
630978	201	202	< 0.01	18	930	8	< 2	1	38	0.07	< 10	< 10	94	< 10	72
630979	201	202	< 0.01	32	1570	8	< 2	1	12	0.01	< 10	< 10	58	< 10	144
630980	201	202	< 0.01	56	2050	10	< 2	3	16	0.01	< 10	< 10	61	< 10	390
630981	201	202	< 0.01	44	1350	4	< 2	5	14	0.01	< 10	< 10	77	< 10	288
630982	201	202	< 0.01	89	750	8	< 2	8	10	0.01	< 10	< 10	63	< 10	258
630983	201	202	< 0.01	11	1460	10	< 2	3	9	0.10	< 10	< 10	101	< 10	188
630987	201	202	< 0.01	20	1270	6	< 2	4	11	0.06	< 10	< 10	91	< 10	270
630989	201	202	< 0.01	25	2060	8	< 2	5	11	0.05	< 10	< 10	106	< 10	388
630991	201	202	< 0.01	46	2010	10	< 2	6	9	0.02	< 10	< 10	100	< 10	242
630992	201	202	< 0.01	59	580	6	< 2	7	19	0.04	< 10	< 10	68	< 10	108
630994	201	202	< 0.01	57	830	16	< 2	8	24	0.04	< 10	< 10	72	< 10	194
630996	201	202	< 0.01	61	760	12	< 2	6	19	0.01	< 10	< 10	69	< 10	164
630998	201	202	< 0.01	81	1090	8	< 2	6	9	0.01	< 10	< 10	77	< 10	160
631000	201	202	< 0.01	34	2010	8	< 2	3	7	0.03	< 10	< 10	86	< 10	370

CERTIFICATION: [signature]

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GEOFINE EXPLORATION CONSULTANTS LTD.

49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
Comments: ATTN: DAVID MOLLOY

Page Number : 1
Total Pages : 1
Certificate Date: 03-DEC-19
Invoice No. : I9837387
P.O. Number :
Account : KIV

CERTIFICATE OF ANALYSIS A9837387

SAMPLE	PREP CODE		Au ppb FA+AA
86802	244	--	< 5
598940	244	--	< 5
598942	244	--	< 5

CERTIFICATION: [signature]

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOFINE EXPLORATION CONSULTANTS LTD.
49 NORMANDALE RD.
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L3R 4J8

Project :
Comments: ATTN: DAVID MOLLOY

Number : 1
Pages : 1
Certificate Date: 03-DEC-19
Invoice No. : I9837386
P.O. Number :
Account : KIV

CERTIFICATE OF ANALYSIS A9837386

SAMPLE	PREP CODE		Au ppb FA+AA									
86878	244	--	< 5									
86920	244	--	< 5									
86922	244	--	< 5									
598941	244	--	< 5									

CERTIFICATION: [signature]

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GEOFINE EXPLORATION CONSULTANTS LTD.
49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
Comments: ATTN: DAVID MOLLOY

Page Number : 1-A
Total Pages : 1
Certificate Date: 24-NOV-199
Invoice No. : I9836359
P.O. Number :
Account : KIV

CERTIFICATE OF ANALYSIS A9836359

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
598762	201	202	< 0.2	3.27	12	210	1.0	< 2	0.19	0.5	24	29	50	4.03	< 10	< 1	0.06	30	0.50	1670	1
598763	201	202	0.6	2.62	16	230	0.5	< 2	0.60	0.5	23	23	40	4.07	< 10	< 1	0.11	< 10	0.60	2980	1
598764	201	202	< 0.2	1.54	46	230	< 0.5	< 2	0.80	1.0	19	20	38	3.44	< 10	< 1	0.09	10	0.47	2810	1
598765	201	202	< 0.2	1.66	4	780	< 0.5	< 2	0.31	2.5	27	21	18	3.57	< 10	< 1	0.09	< 10	0.16	>10000	1
598766	201	202	0.2	1.98	14	200	< 0.5	2	0.37	0.5	11	34	29	4.11	< 10	< 1	0.10	< 10	0.41	885	3
598767	201	202	0.2	2.49	8	110	0.5	< 2	0.14	< 0.5	10	42	31	3.69	< 10	< 1	0.05	10	0.75	945	< 1

CERTIFICATION:

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GEOFINE EXPLORATION CONSULTANTS LTD.

49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
Comments: ATTN: DAVID MOLLOY

Page Number : 1-B
Total Pages : 1
Certificate Date: 24-NOV-199
Invoice No. : I9836359
P.O. Number :
Account : KIV

CERTIFICATE OF ANALYSIS A9836359

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
598762	201	202	< 0.01	45	740	6	2	7	12	0.06	< 10	< 10	56	< 10	272
598763	201	202	< 0.01	60	1260	4	2	4	30	0.05	< 10	< 10	53	< 10	238
598764	201	202	< 0.01	40	890	6	2	4	41	0.02	< 10	< 10	42	< 10	176
598765	201	202	< 0.01	24	1570	8	2	1	19	0.04	< 10	10	45	< 10	450
598766	201	202	< 0.01	34	850	4	2	3	40	0.01	< 10	< 10	58	< 10	162
598767	201	202	< 0.01	50	560	< 2	4	4	14	0.01	< 10	< 10	46	< 10	160

CERTIFICATION:

APPENDIX 2

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GEOFINE EXPLORATION CONSULTANTS LTD.

49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
Comments: ATTN: DAVID MOLLOY

Certificate Date: 24-NOV-199
Invoice No. : I9836358
P.O. Number :
Account : KIV

CERTIFICATE OF ANALYSIS A9836358

SAMPLE	PREP CODE		Au g/t FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
460251	205	226	-----	< 0.2	2.42	16	50	< 0.5	< 2	2.03	0.5	12	33	55	4.17	< 10	< 1	0.07	10	1.71	935
460252	205	226	-----	< 0.2	3.80	62	90	0.5	< 2	1.50	0.5	20	16	23	6.29	10	< 1	0.08	10	2.49	1570
460253	205	226	-----	< 0.2	4.51	2	30	< 0.5	< 2	3.48	< 0.5	23	71	49	5.64	10	< 1	0.01	< 10	2.46	1125
460254	205	226	-----	< 0.2	0.32	2	100	< 0.5	< 2	0.08	< 0.5	1	50	7	1.24	< 10	< 1	0.16	< 10	0.05	155
460255	205	226	-----	< 0.2	0.83	6	50	< 0.5	< 2	0.44	< 0.5	2	80	6	1.73	< 10	< 1	0.08	10	0.32	460
460256	205	226	< 0.005	< 0.2	5.27	< 2	50	< 0.5	< 2	4.78	< 0.5	24	54	79	5.77	10	< 1	0.01	< 10	2.29	820
460257	205	226	-----	< 0.2	4.60	10	60	< 0.5	2	3.38	< 0.5	27	51	119	5.16	10	< 1	0.02	< 10	2.46	820
460258	205	226	-----	< 0.2	2.20	22	90	0.5	< 2	3.89	< 0.5	8	30	8	3.59	< 10	< 1	0.26	10	1.06	975
460259	205	226	-----	< 0.2	1.92	12	90	0.5	< 2	2.35	< 0.5	7	21	10	3.56	< 10	< 1	0.22	10	0.80	880
460261	205	226	-----	< 0.2	0.41	12	40	< 0.5	< 2	0.42	< 0.5	< 1	75	3	0.74	< 10	< 1	0.12	20	0.05	195
460262	205	226	-----	< 0.2	0.52	< 2	90	< 0.5	< 2	0.06	< 0.5	1	62	4	0.97	< 10	< 1	0.13	< 10	0.10	240
460263	205	226	-----	< 0.2	0.18	8	120	< 0.5	< 2	0.01	< 0.5	< 1	106	3	0.74	< 10	< 1	0.13	20	< 0.01	20
460264	205	226	-----	< 0.2	0.30	2	40	< 0.5	< 2	0.52	< 0.5	1	72	4	0.96	< 10	< 1	0.05	10	0.08	425
460265	205	226	-----	< 0.2	0.91	26	30	< 0.5	2	0.36	< 0.5	2	92	7	1.95	< 10	< 1	0.01	10	0.49	340
460266	205	226	-----	< 0.2	0.30	16	40	< 0.5	< 2	0.02	< 0.5	< 1	65	3	0.68	< 10	< 1	0.13	< 10	< 0.01	115
460267	205	226	-----	< 0.2	2.89	142	110	< 0.5	< 2	5.69	< 0.5	28	43	37	4.72	< 10	< 1	0.15	< 10	2.12	1500
460268	205	226	-----	< 0.2	0.20	< 2	120	< 0.5	< 2	0.02	< 0.5	< 1	81	1	0.44	< 10	< 1	0.16	10	< 0.01	25
460269	205	226	-----	< 0.2	0.22	14	50	< 0.5	< 2	0.69	< 0.5	1	75	3	0.82	< 10	< 1	0.14	< 10	0.01	220
460270	205	226	-----	< 0.2	0.24	8	90	< 0.5	< 2	0.02	< 0.5	< 1	79	1	0.83	< 10	< 1	0.17	20	< 0.01	170
460271	205	226	-----	< 0.2	3.41	24	200	< 0.5	< 2	1.57	< 0.5	18	15	50	5.12	10	< 1	0.10	10	2.40	1195

CERTIFICATION:________________________

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GEOFINE EXPLORATION CONSULTANTS LTD.

49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
Comments: ATTN: DAVID MOLLOY

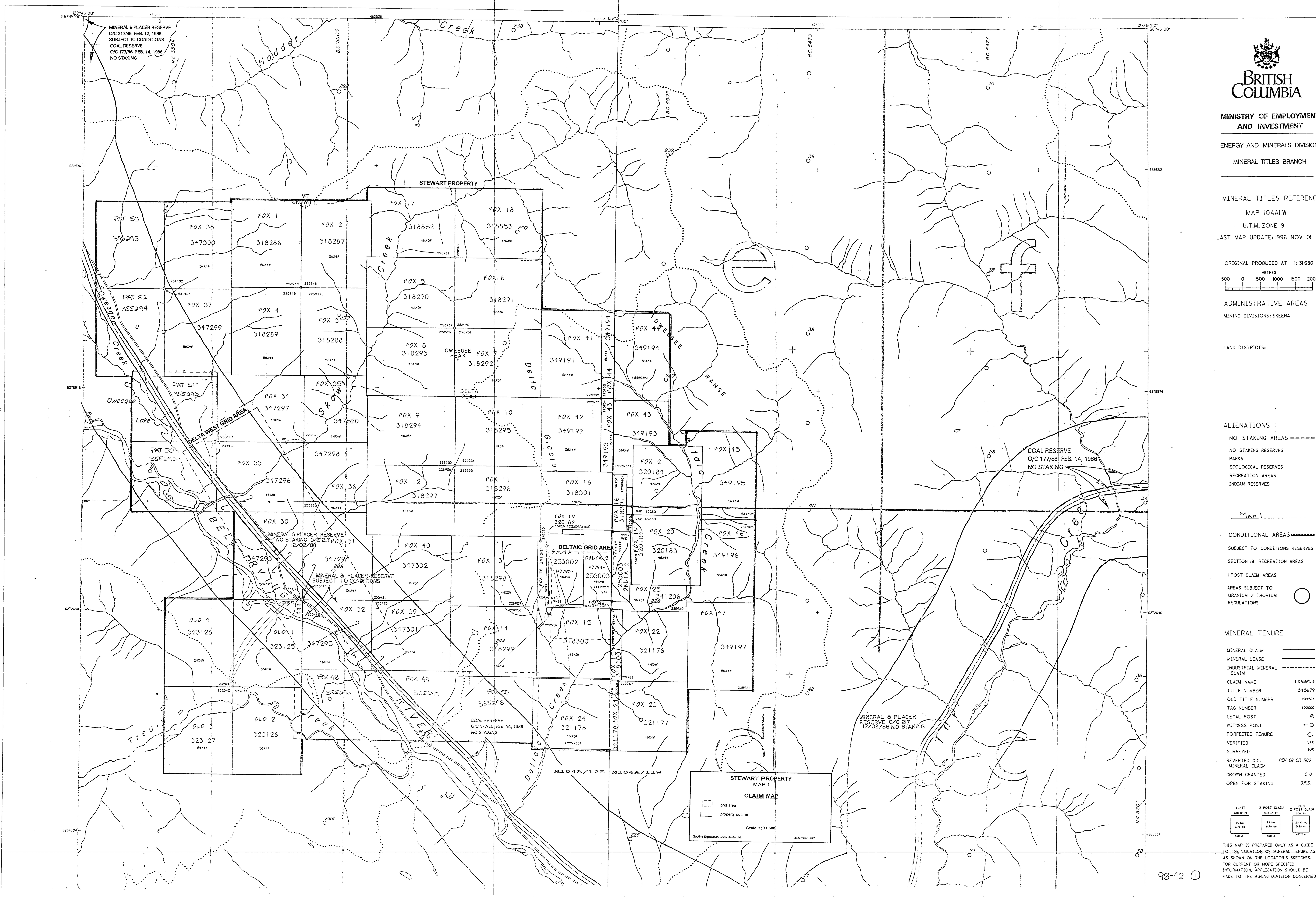
Certificate Date: 24-NOV-1998
Invoice No. : I9836358
P.O. Number :
Account : KIV

CERTIFICATE OF ANALYSIS A9836358

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
460251	205	226	1	0.03	7	970	< 2	2	5	71	0.11	< 10	< 10	83	< 10	106
460252	205	226	1	0.01	4	1460	< 2	4	8	33	0.14	< 10	10	130	< 10	114
460253	205	226	< 1	< 0.01	22	660	< 2	2	9	19	0.30	< 10	10	164	< 10	90
460254	205	226	< 1	0.03	< 1	310	10	2	1	5	< 0.01	< 10	< 10	12	< 10	38
460255	205	226	< 1	0.04	4	280	6	< 2	3	6	0.09	< 10	< 10	31	< 10	48
460256	205	226	1	0.01	21	570	< 2	4	11	44	0.29	< 10	10	188	< 10	88
460257	205	226	< 1	< 0.01	17	730	< 2	4	14	50	0.29	< 10	10	197	< 10	74
460258	205	226	< 1	0.02	3	900	< 2	2	4	44	0.16	< 10	< 10	58	< 10	84
460259	205	226	1	0.04	1	880	10	< 2	4	35	0.15	< 10	< 10	56	< 10	146
460261	205	226	1	0.06	1	120	6	2	< 1	11	< 0.01	< 10	< 10	7	< 10	42
460262	205	226	< 1	0.05	1	260	6	< 2	1	4	< 0.01	< 10	< 10	11	< 10	28
460263	205	226	1	0.05	2	150	8	< 2	< 1	6	< 0.01	< 10	< 10	2	< 10	8
460264	205	226	< 1	0.06	1	60	8	< 2	1	8	< 0.01	< 10	< 10	14	< 10	44
460265	205	226	4	0.07	1	160	14	2	4	11	0.10	< 10	< 10	26	< 10	64
460266	205	226	< 1	0.04	< 1	120	4	< 2	< 1	10	< 0.01	< 10	< 10	3	< 10	22
460267	205	226	1	< 0.01	9	1100	< 2	4	9	445	0.18	< 10	< 10	94	< 10	114
460268	205	226	< 1	0.02	1	90	8	< 2	< 1	5	< 0.01	< 10	< 10	1	< 10	12
460269	205	226	1	0.03	2	80	6	< 2	< 1	18	< 0.01	< 10	< 10	12	< 10	42
460270	205	226	1	0.04	< 1	170	6	2	< 1	6	< 0.01	< 10	< 10	3	< 10	16
460271	205	226	3	0.03	4	1030	< 2	4	10	52	0.21	< 10	< 10	134	< 10	86

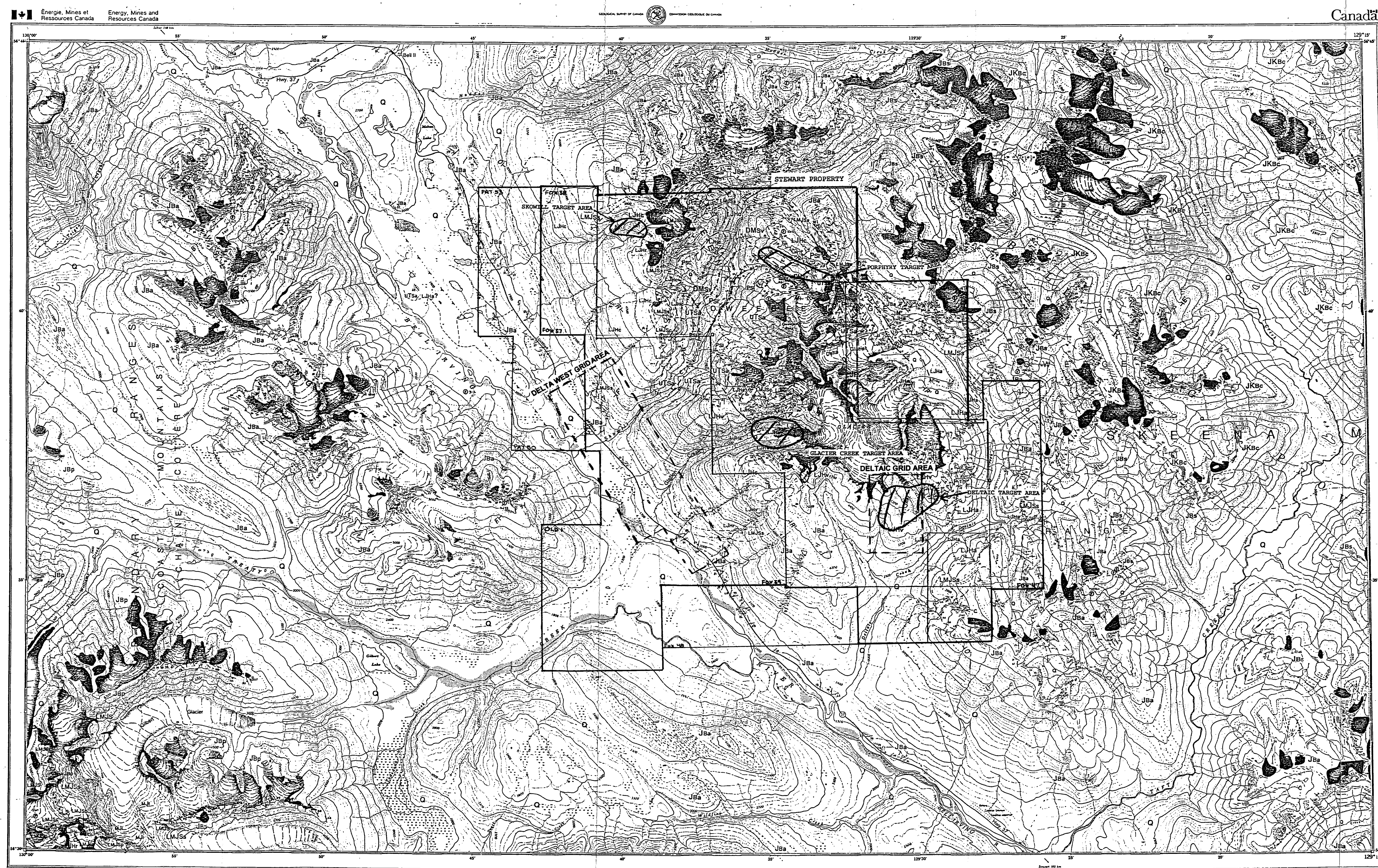
CERTIFICATION:

104A/11W



98-42 ①

104 A/12
EDITION 2
Canada
ÉDITION 2
1:50,000
CANADA
EDITION 3
104 A/11
BELL 2
STEWART PROPERTY
FOX 1
SKOWILL TARGET AREA
PORPHYRY TARGET AREA
OWEEGEE RANGE
DELTA WEST GRID AREA
GLACIER CREEK TARGET AREA
DELTAIC GRID AREA
OLD 1
FOX 24
STAGING AREA
SKEENA MOUNTAINS
BOUNDARY RANGES
MAP 2
STEWART PROPERTY
TOPOGRAPHY
DELTA PEAK 104A/12
CASSIAR LAND DISTRICT
BRITISH COLUMBIA COLOMBIE-BRITANNIQUE
Scale 1:50,000 Échelle
TAFT CREEK 104A/11
TAFT CREEK
CASSIAR LAND DISTRICT
BRITISH COLUMBIA
Scale 1:50,000 Échelle
INDEX TO ADJOINING MAPS OF THE NATIONAL TOPOGRAPHIC SYSTEM
MAP 2
TAFT CREEK
104 A/11
EDITION 3 ÉDITION
98-42
2



DELTA PEAK
CASSIAR LAND DISTRICT
BRITISH COLUMBIA COLOMBIE-BRITANNIQUE
Scale 1:50 000 Échelle

TAFT CREEK
CASSIAR LAND DISTRICT
BRITISH COLUMBIA
Scale 1:50,000 Échelle

GEOLOGY OF OWEEGEE DOME

DELTA PEAK (104A/12) AND TAFT CREEK (104A/11W) MAP AREAS, NORTHWESTERN BRITISH COLUMBIA

C.J. GREIG and C.A. EVENCHICK
(with contributions by M.H.Gunning, B.D.Ricketts and S.P.Porter)

Scale 1:50,000

LEGEND

QUATERNARY

Q	thick drift: colluvium, alluvium, till.

STRATIFIED ROCKS

MIDDLE(?) AND UPPER JURASSIC TO LOWER CRETACEOUS(?)

BOWSER LAKE GROUP

JKBc	chert litharenite lithofacies: fine to medium grained, moderately well sorted chert litharenite, interrbedded silty mudstone, common bivalve coquinas, rare chert pebble conglomerate.

MIDDLE(?) AND UPPER JURASSIC

BOWSER LAKE GROUP

JBs	silty mudstone lithofacies: bioturbated silty mudstone with regularly interbedded, buff weathering, Fe-carbonate cemented fine grained sandstone.
JBa	arkosic volcanic litharenite turbidite lithofacies; thin and medium bedded, fine to medium grained, poorly sorted arkosic litharenite with interbedded silty mudstone.
JBp	pyritic silty mudstone lithofacies; pyritic, siliceous, tuffaceous silty mudstone, fine to medium grained lithic arkose.

LOWER AND MIDDLE JURASSIC

HAZELTON GROUP
SALMON RIVER FORMATION

LMJSs	thin bedded siliceous silty mudstone, clay-altered dust tuff(?), discontinuous limestone lenses.
LMJSb	amygdaloidal pillow basalt, basalt pillow breccia, tuff-breccia and debris flow breccia.
LMJSr	rhyodacite lapilli tuff-breccia; locally welded.
LMJS	fossiliferous limy, coarse grained arkose; polymict pebble, boulder and cobble conglomerate.
LMJSp	pyritic silty shale and mudstone.
LMJS	undivided Spatsizi Group

LOWER JURASSIC

HAZELTON GROUP

LJHr	felsic lapilli tuff-breccia, ash and dust tuff. Dillworth
LJHc	boulder and cobble conglomerate, pebbly sandstone; well-stratified, green and maroon ash, lapilli and dust tuff, tuffaceous arkose and mudstone.
LJHv	intermediate to mafic plagioclase-pyroxene and subordinate plagioclase-hornblende phyric lapilli tuff-breccia, lapilli, ash and dust tuff, flows; derived debris flows, arkose and siltstone.
LJHa	thick bedded and massive tuffaceous arkose and siltstone with abundant syn-depositional soft-sediment deformation structures; mafic to intermediate fragmental volcanic rocks and associated debris flows.

UPPER TRIASSIC

STUHINI GROUP

UTSa	plagioclase-pyroxene crystal tuff turbidite arkose and siltstone, plagioclase-pyroxene phyric mafic to intermediate lapilli and ash tuff, tuff-breccia and rare flows; minor limestone lenses.

PALEOZOIC

STIKINE ASSEMBLAGE

PERMIAN

PSl	medium and thick bedded to massive bioclastic limestone with chert interlayers; thin-bedded micrite.

DEVONIAN AND MISSISSIPPIAN

DMSv	mafic to intermediate plagiclase-pyroxene phyric lapilli tuff, lapilli tuff-breccia, and flows; plagioclase phyric amygdaloidal andesite(?) flows; rhyolite and rhyodacite lapilli tuff-breccia.

INTRUSIVE ROCKS

MIDDLE JURASSIC OR YOUNGER

MJi	pyroxene diorite sills.

MAP SYMBOLS

Limit of thick Quaternary drift.

Geologic contact: defined, approximate, inferred.

Thrust or reverse fault, defined, approximate, inferred; teeth on upthrown side.

High angle fault, defined, approximate, inferred; ball on downthrown side.

Bedding: inclined, vertical, overturned;
estimated: vg=very gentle(<10°), g=gentle (10°-30°), m=moderate(30°-50°), s=steep(50°-70°), vs=very steep(>70°).

Bedding formlines.

Cleavage: inclined, vertical.

Minor fold axis, plunge.

Anticline, overturned anticline, trace of axial surface: defined, approximate; arrow indicates vergence direction.

Syncline, overturned syncline, trace of axial surface: defined, approximate; arrow indicates vergence direction.

K ⊢ ⊣K'

Line of cross-section

Fossil locality

Property Outline

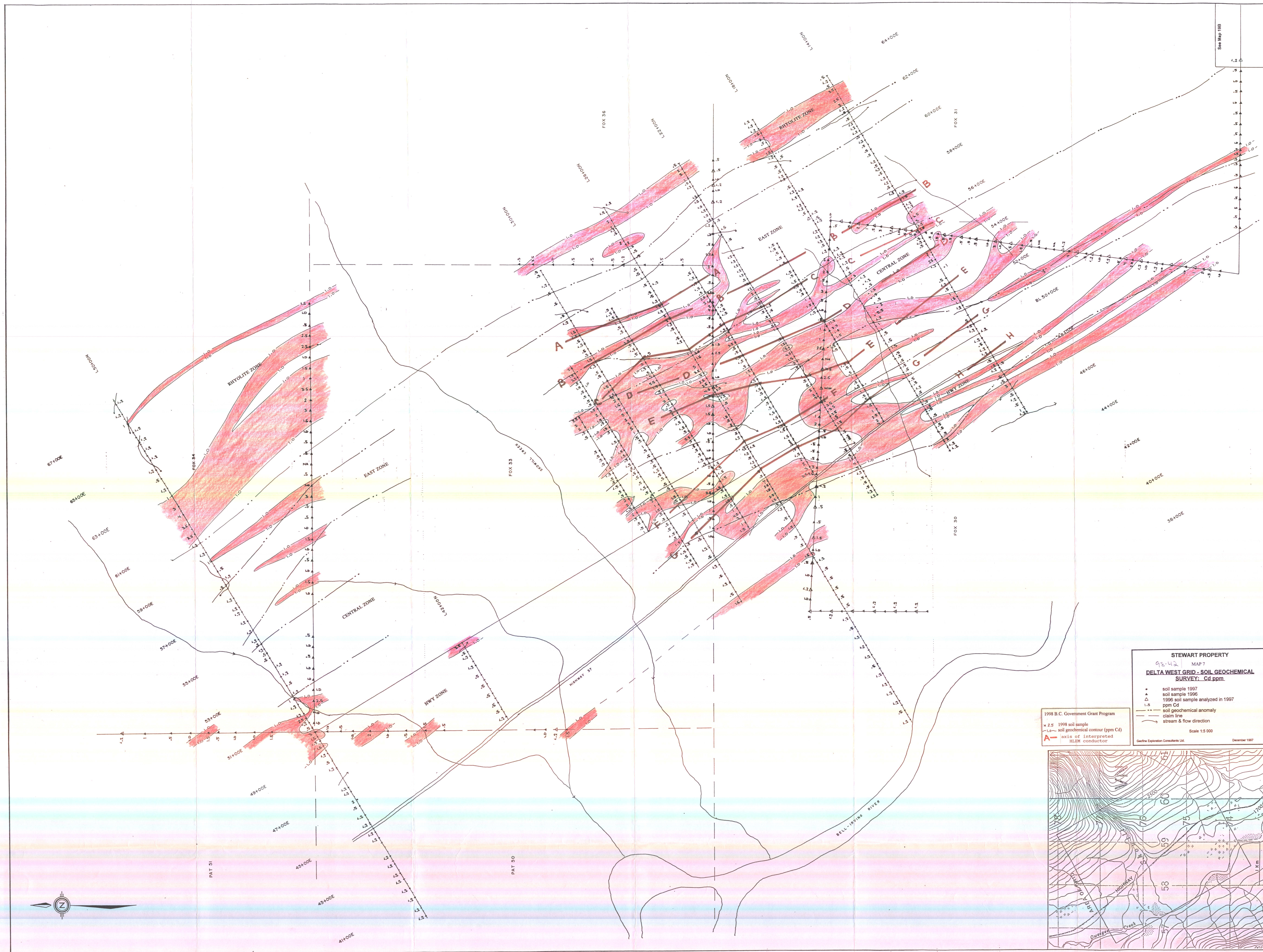
98-42 3

MAP 3
STEWART PROPERTY
PROPERTY GEOLOGY
GSC 1993


STEWART PROPERTY
MAP 4
DELTA WEST GRID - SOIL GEOCHEMICAL SURVEY SAMPLE NUMBERS
600473 soil sample 1997
F267 soil sample 1996
F266 1996 soil sample analyzed in 1997
claim line
stream & flow direction
Scale 1:5 000
Geofine Exploration Consultants Ltd.
December 1997
See Map 15B
HIGHWAY 37
BELL - IRVING RIVER
SNOWBALL CREEK
BL 50+00E
FOX 34
FOX 33
FOX 36
FOX 31
FOX 30
PAT 51
PAT 50
AREA OF GRID
HIGHWAY
Owegee Creek
1 Km
1:25,000
98.42
4

STEWART PROPERTY
MAP 5
DELTA WEST GRID - SOIL GEOCHEMICAL SURVEY: Zn ppm
soil sample 1997
soil sample 1996
1996 soil sample analyzed in 1997
262 ppm Zn
soil geochemical anomaly
L-1 conductive or low resistivity response designated for investigation
2A low resistivity zone less than 200 ohm metres (coplanar 900 Hz)
general area of low resistivity (coplanar 900 Hz)
1997 weak EM anaomaly
claim line
stream & flow direction
strong IP chargeability anomaly
moderate IP chargeability anomaly
Scale 1:5 000
98-42 5
Geofine Exploration Consultants Ltd.
December 1997
1998 B.C. Government Grant Program
306 1998 soil sample
400 soil geochemical contour (ppm Zn)
A axis of interpreted HLEM conductor
See Map 16B
RHYOLITE ZONE
EAST ZONE
CENTRAL ZONE
HWY ZONE
BL 50+00E
HIGHWAY 37
BELL-IRVING RIVER
2A
L-1
L-2
FOX 34
FOX 33
FOX 36
FOX 31
FOX 30
PAT 51
PAT 30

STEWART PROPERTY
MAP 6
DELTA WEST GRID - SOIL GEOCHEMICAL SURVEY: Cu ppm
soil sample 1997
soil sample 1996
1996 soil sample analyzed in 1997
soil geochemical anomaly
conductive or low resistivity response designated for investigation
low resistivity zone less than 200 ohm metres (coplanar 900 Hz)
general area of low resistivity (coplanar 900 Hz)
1997 weak EM anaomaly
claim line
strong IP chargeability anomaly
moderate IP chargeability anomaly
Scale 1:5 000
98-42 6
Geofine Exploration Consultants Ltd.
December 1997
1998 B.C. Government Grant Program
× 52 1998 soil sample
40 soil geochemical contour (ppm Cu)
A axis of interpreted HLEM conductor
RHYOLITE ZONE
EAST ZONE
CENTRAL ZONE
HWY ZONE
See Map 17B
HIGHWAY 37
BELL-IRVING RIVER
FOX 36
FOX 35
FOX 34
FOX 31
FOX 30
PAT 51
PAT 50
BL 50+00E
L-1
L-2
2A



STEWART PROPERTY
98-42
MAP 7
DELTA WEST GRID - SOIL GEOCHEMICAL SURVEY: Cd ppm
soil sample 1997
soil sample 1996
1996 soil sample analyzed in 1997
1.5 ppm Cd
soil geochemical anomaly
claim line
stream & flow direction
Scale 1:5 000
Geofine Exploration Consultants Ltd.
December 1997
1998 B.C. Government Grant Program
× 2.5 1998 soil sample
1.0 soil geochemical contour (ppm Cd)
A axis of interpreted HLEM conductor
RHYOLITE ZONE
EAST ZONE
CENTRAL ZONE
HWY ZONE
BL 50+00E
HIGHWAY 37
BELL-IRVING RIVER
FOX 30
FOX 31
FOX 33
FOX 34
FOX 36
PAT 50
PAT 51
See Map 16B

See Map 18B
RHYOLITE ZONE
EAST ZONE
CENTRAL ZONE
HWY ZONE
FOX 36
FOX 34
FOX 33
FOX 31
FOX 30
PAT 51
PAT 50
HIGHWAY 37
BELL-IRVING RIVER
BL 50+00N
64+00E
62+00E
60+00E
58+00E
56+00E
54+00E
52+00E
46+00E
44+00E
42+00E
40+00E
38+00E
67+00E
65+00E
63+00E
61+00E
59+00E
57+00E
55+00E
53+00E
51+00E
49+00E
47+00E
45+00E
43+00E
41+00E
STEWART PROPERTY
98-42
MAP 8
DELTA WEST GRID - SOIL GEOCHEMICAL SURVEY: Ba ppm
soil sample 1997
soil sample 1996
1996 soil sample analyzed in 1997
200 ppm Ba
soil geochemical anomaly
stream and flow direction
claim line
Scale 1:5 000
Geofine Exploration Consultants Ltd.
December 1997
1998 B.C. Government Grant Program
230 1998 soil sample
250 soil geochemical contour (ppm Ba)
A axis of interpreted HLEM conductor

1997 ROCK ANALYSES

SAMPLE NO.	Au g/t	Cu ppm	Zn ppm	Ag ppm	As ppm	Pb ppm	Cd ppm	Ba ppm
600006	<.005	25	96	<.2	<2	2	<.5	160
600010	<.005	62	106	<.2	8	<2	<.5	120
600012	<.005	9	48	<.2	8	<2	<.5	20
600018	<.005	39	48	<.2	38	4	<.5	100
600024	<.005	5	28	<.2	12	4	<.5	70
600034	<.005	39	106	<.2	18	2	<.5	190
600037	<.005	75	156	<.2	10	<2	<.5	210
600046	<.005	31	86	<.2	<2	<2	<.5	40
600050	<.005	3	40	<.2	2	6	<.5	30
600056	<.005	3	52	<.2	4	8	<.5	80
600061	<.005	57	72	0.2	6	10	<.5	70
600073	<.005	20	76	<.2	<2	2	<.5	110
600107	<.005	14	90	<.2	10	8	<.5	260
600120	<.005	5	106	<.2	<2	6	<.5	230
600123	<.005	34	68	<.2	2	2	<.5	320
600127	<.005	5	48	<.2	4	2	<.5	90
600138	0.095	252	148	0.2	<2	6	<.5	150
600179	<.005	78	92	<.2	16	<2	<.5	170
600183	<.005	116	122	<.2	6	<2	<.5	150
600202	0.035	26	34	0.4	32	6	<.5	200
600208	<.005	49	172	<.2	6	2	<.5	100
600210	0.02	26	104	0.2	6	2	<.5	90
600212	<.005	84	198	<.2	<2	<2	<.5	190
600213	<.005	90	24	0.2	68	<2	<.5	30
600217	<.005	81	152	<.2	48	<2	<.5	70
600222	<.005	30	92	<.2	2	<2	<.5	280
600231	<.005	56	112	0.2	<2	8	<.5	150
600237	<.005	2	10	<.2	<2	6	<.5	300
600249	<.005	4	26	<.2	6	2	<.5	90
600250	<.005	3	14	<.2	2	4	<.5	70
600251	<.005	3	24	<.2	8	6	<.5	90
600254	<.005	12	58	<.2	42	8	<.5	130
600255	<.005	4	22	<.2	2	8	<.5	200
600257	<.005	2	20	<.2	2	2	<.5	70
600261	<.005	2	22	<.2	16	2	<.5	70
600267	<.005	9	60	<.2	4	6	<.5	40
600274	0.015	74	66	<.2	<2	<2	<.5	40
600277	<.005	129	90	<.2	<2	<2	<.5	120
600296	<.005	52	94	0.2	<2	<2	<.5	300
600305	<.005	3	40	<.2	<2	6	<.5	50
600314	<.005	33	122	<.2	<2	6	<.5	490
600315	<.005	27	284	0.2	8	10	1	210
600317	<.005	27	94	<.2	2	6	<.5	140
600321	<.005	44	72	<.2	16	2	<.5	70
600322	<.005	46	120	<.2	<2	4	<.5	40
600328	<.005	62	120	<.2	<2	6	<.5	80
600332	<.005	10	82	<.2	<2	<2	<.5	50
600334	<.005	269	128	<.2	22	<2	<.5	140
600335	<.005	1	50	<.2	4	6	<.5	50
600345	<.005	72	242	0.2	8	8	<.5	180
600347	<.005	15	156	<.2	4	2	<.5	220
600354	<.005	65	94	0.2	6	6	<.5	200
600361	<.005	13	44	<.2	4	6	<.5	140
600364	<.005	18	42	<.2	<2	2	<.5	330
600367	<.005	12	62	<.2	<2	6	<.5	340
600376	<.005	2	34	<.2	2	4	<.5	70
600408	<.005	30	152	<.2	6	8	<.5	440
600416	<.005	22	60	<.2	950	8	0.5	170
600420	<.005	55	88	<.2	10	<2	<.5	140
600424	<.005	5	42	<.2	8	10	<.5	60
600428	<.005	208	76	<.2	6	8	<.5	60
600429	<.005	73	122	<.2	12	4	<.5	80
600435	<.005	14	148	<.2	24	8	<.5	100
600441	<.005	19	88	<.2	34	<2	<.5	180
600448	<.005	1	8	<.2	<2	2	<.5	80
600452	<.005	8	50	<.2	6	8	<.5	90
600453	<.005	5	80	<.2	6	<2	<.5	100
600457	<.005	19	86	<.2	8	2	<.5	230
600460	<.005	29	98	<.2	8	8	<.5	170
600481	<.005	1	12	<.2	2	2	<.5	40
630671	<.005	37	42	0.4	26	22	0.5	150

1996 ROCK SAMPLE ANALYSES

SAMPLE NO.	Au g/t	Cu ppm	Zn ppm	Ag ppm	As ppm	Pb ppm	Cd ppm	Ba ppm
FR2	<.005	24	86	<.2	6	4	<.5	330
FR4	<.005	59	108	<.2	20	12	<.5	180
FR5	<.005	40	74	<.2	26	16	<.5	160
FR6	<.005	76	142	0.2	16	12	<.5	140
FR7	<.005	16	128	<.2	6	4	<.5	110
FR8	<.005	10	62	<.2	2	2	<.5	100
FR9	<.005	31	84	0.2	16	8	<.5	100
FR10	<.005	13	114	<.2	12	10	<.5	40
FR11	<.005	13	70	<.2	2	<2	<.5	140
FR12	<.005	49	162	<.2	8	10	<.5	440
FR13	<.005	42	86	<.2	12	10	<.5	200
FR14	<.005	26	82	<.2	12	10	<.5	330
FR15	<.005	16	26	<.2	<2	<2	<.5	40
FR15A	<.005	6	36	<.2	6	2	<.5	30
FR16	<.005	48	72	<.2	14	14	<.5	290
FR17	<.005	48	60	<.2	12	12	<.5	180
FR18	<.005	49	106	<.2	20	16	<.5	280
FR19	<.005	30	76	0.2	8	<2	<.5	210
FR37	<.005	28	74	<.2	18	14	<.5	230
FR38	<.005	30	76	<.2	12	10	<.5	160
FR41	<.005	29	78	<.2	10	8	<.5	220
FR42	<.005	31	136	<.2	2	8	<.5	270
FR43	<.005	6	22	<.2	16	2	<.5	150
FR44	<.005	43	106	<.2	28	10	<.5	110
FR45	<.005	9	48	<.2	<2	8	<.5	180
FR46	<.005	3	38	<.2	2	8	<.5	70
FR47	<.005	12	84	<.2	<2	8	<.5	240
FR49	<.005	25	160	<.2	10	8	<.5	300

1998 ROCK SAMPLE ANALYSES

SAMPLE NO.	Au g/ton	Cu ppm	Zn ppm	Ag ppm	As ppm	Pb ppm	Cd ppm	Ba ppm
460251	—	55	106	<.2	16	<2	0.5	50
460252	—	23	114	<.2	62	<2	0.5	90
460253	—	49	90	<.2	2	<2	<.5	30
460254	—	7	38	<.2	2	10	<.5	100
460255	—	6	48	<.2	6	6	<.5	50
460256	<.005	79	88	<.2	<2	<2	<.5	50
460257	—	119	74	<.2	10	<2	<.5	60
460258	—	8	84	<.2	22	<2	<.5	90
460259	—	10	146	<.2	12	10	<.5	90
460260		not submitted						
460261	—	3	42	<.2	12	6	<.5	40
460262	—	4	28	<.2	<2	6	<.5	90
460263	—	3	8	<.2	8	8	<.5	120
460264	—	4	44	<.2	2	8	<.5	40
460265	—	7	64	<.2	26	14	<.5	30
460266	—	3	22	<.2	16	4	<.5	40
460267	—	37	114	<.2	142	<2	<.5	110
460268	—	1	12	<.2	<2	8	<.5	120
460269	—	3	42	<.2	14	6	<.5	50
460270	—	1	16	<.2	8	6	<.5	90
460271	—	50	86	<.2	24	<2	<.5	200
598761		not submitted						
598768		not submitted						

LEGEND

ROCK TYPES

Q thick drift, coluvium, alluvium, till

MIDDLE (?) AND UPPER JURASSIC - BOWSER LAKE GROUP

- B1 silty mudstone lithofacies: bioturbated silty mudstone with regularly interbedded, Fe-carbonate cemented fine grained sandstone
- B2 arkosic volcanic litharenite turbidite lithofacies: thin and medium bedded, fine to medium grained, poorly sorted arkosic litharenite with interbedded silty mudstone
- B3 pyritic silty mudstone lithofacies: pyritic, siliceous, tuffaceous silty mudstone, fine to medium grained lithic arkose
- B4 undifferentiated Bowser Lake Sediments

HAZELTON GROUP - SALMON RIVER FORMATION

- S1 undifferentiated sediments (shale, mudstone, dust, limestone, conglomerate, tuffaceous sediments)
- S2 ukndifferentiated volcanics (basalt, pillowed basalt, volcanic breccia)

HAZELTON GROUP - LOWER AND MIDDLE JURASSIC

- H1 ferricrete
- H2 crystal tuff
- H3 crystal tuff breccia, agglomerate
- H4 ash tuff, ash tuff breccia, agglomerate
- H5 undifferentiated pyroclastic rocks: tuff, breccia, agglomerate
- H6 felsic volcanic rocks (rhyolite)
- H7 intermediate volcanic rocks (dacite)
- H8 mafic volcanic rocks (basalt, pillowed basalt, andesite)
- H9 undifferentiated, strongly altered rock

INTRUSIVE ROCKS

- R1 felsic dykes
- R2 hornblende diorite porphyry
- R3 quartz feldspar porphyry
- R4 mafic dyke

ABBREVIATIONS

ald	alder	lim	limonite
am	alpine meadow	mal	malachite
ank	ankerite	Mn	mangnese
ba	barite	ms	semi massive sulfides
bldr	boulder	OST	oxidized soil, talus
bx	brecciated	ox	oxidized
cal	calcite	py	pyritized
carb	carbonatized	q vn	quartz vein
ch	chloritized	ser	sericitized
cs	coarse	sil	silicified
cpy	chalcopyrite	sp	spruce
epi	epidotized	sul	sulfides
fir	fir trees	sph	sphalerite
hem	hematized	stwk	stockwork
hbl	hornblende	T	talus
jar/alu	jarosite/alunite	vn	vein

SYMBOLS

- outcrop area
- × 600448 rock sample insitu 1997
- • 600408 float sample 1997
- FR3 rock sample insitu 1996
- • FR40 float sample 1996
- vegetation contact
- fault
- interpreted fault
- claim post and claim line
- stream & flow direction
- cliff
- slope direction
- swampy
- assumed geological contact
- 70 strike and dip of bedding or zone
- 50 strike and dip of fracture
- 40 strike and dip of shearing
- ⊗ 1997 weak airborne EM anomaly
- L-1 conductive or low resistivity response designated for investigation
- (2A) low resistivity zone less than 200 ohm metres (coplanar 900 Hz)

STEWART PROPERTY

98-42 MAP 9

DELTA WEST GRID- GEOLOGY & ROCK GEOCHEMICAL SURVEYS

Scale 1:5 000

Geofine Exploration Consultants Ltd. December 1997