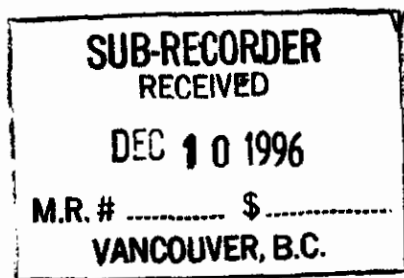


Report of 1996 Geological, Geochemical, and Geophysical
Exploration Work Done on Aftom, Calvin, Dup, Fred, Hags,
Hob, Hop, Mojo, Noot, Pmac, and Rags Mineral Claims

Volume 2 of 2 Volumes



Volume 2 for Work on Fred, Pmac, and Noot Claims

John Peaks Area, NTS 104B/9
Snippaker Creek Area, NTS 104B/10
Skeena and Liard Mining Divisions
British Columbia

by

Greg R. Burroughs,
Dane A. Bridge, P. Geol
Simon J. Haynes, Ph.D.

for

Canamera Geological Ltd.
650-220 Cambie Street
Vancouver, B.C.
V6B 2M9

December 9, 1996

**GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT**

24,853

TABLE OF CONTENTS

INTRODUCTION	1
PROPERTY AND PROGRAM	3
DATA PRESENTATION	5
REGIONAL GEOLOGY	8
Stuhini Group	8
Hazelton Group	8
Bowser Lake Group	14
Intrusive Rocks	15
PROJECT AREA 5	16
REFERENCES	25

List of Maps

Map 1	Claim map	1:50000
Map 12	Fred Grid Geology (North)	1:1000
Map 13	Fred Grid Geology (South)	1:1000
Map 14	Fred Grid Sample Location	1:5000

List of Figures

Fig. 1.	Location Map of Eskay Project Area	2
---------	------------------------------------	---

List of Appendices

Appendix 1	Geophysical Report
Appendix 2	Cost Statements
Appendix 3	Statements of Work
Appendix 4	Rock Descriptions
Appendix 5	Analyses Certificates

Introduction

Location, Access, and Topography

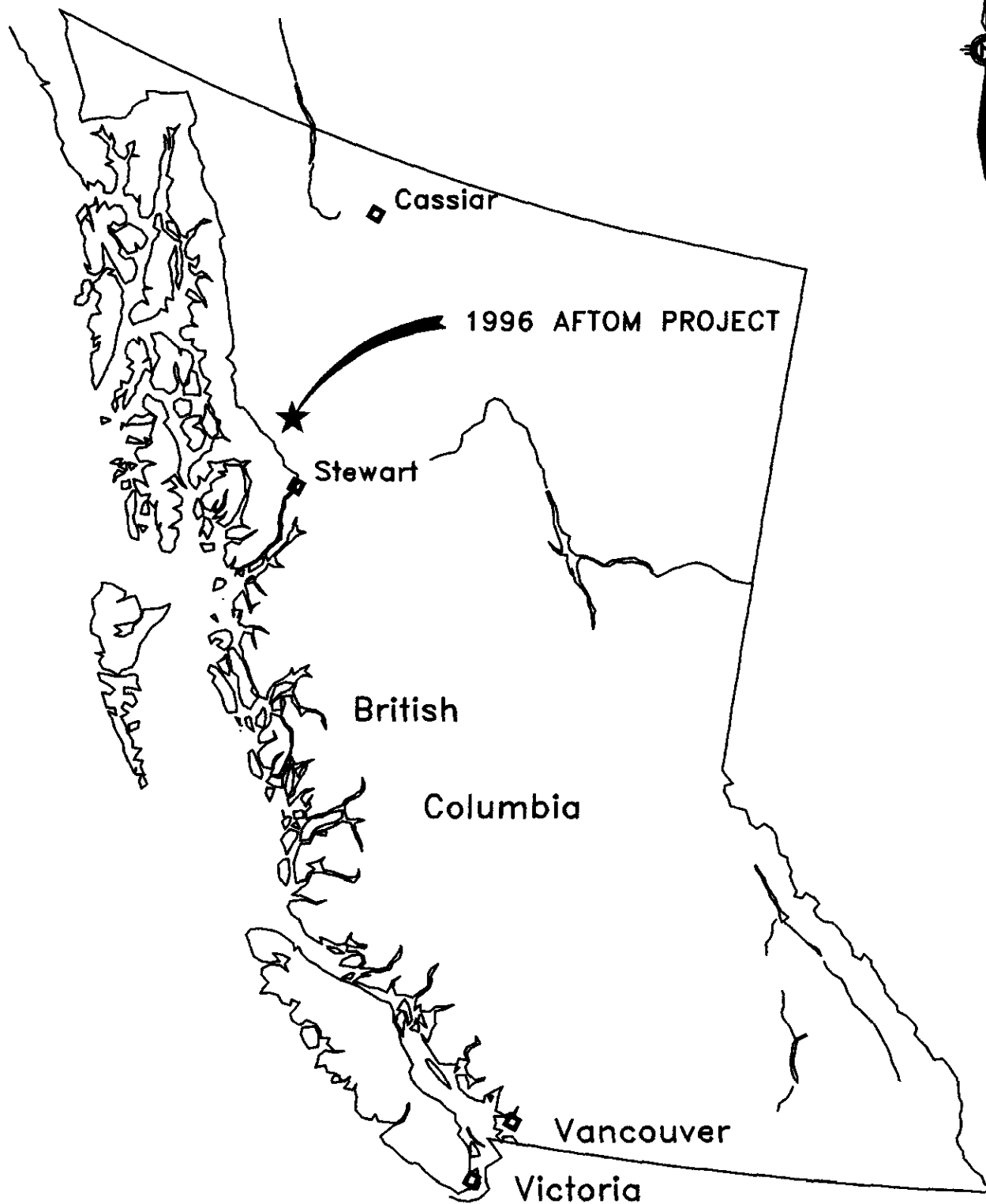
The Eskay Reconnaissance Area is located in northwestern British Columbia, approximately 70 kilometers north of Stewart and 900 kilometers northwest of Vancouver (Fig. 1). Reference maps are NTS Sheets 104B 9W and 10E.

The area is within the Unuk River watershed. Major drainages include the Unuk River, Coulter Creek, and Storie Creek. All rivers and creeks originate from glacial meltwaters, and reach peak flow conditions in the summer months.

Present access is by helicopter from a camp located along the Eskay Creek Mine road about five kilometers from the mine. The Eskay Creek Mine road extends from the Stewart-Cassier Highway at Bob Quinn Lake to the Eskay Creek Mine.

The region is mountainous with elevations ranging from 250 meters on the Unuk River to approximately 2150 meters at John Peaks. Mountain slopes are moderate to very steep. The treeline occurs at about 1200 meters and at higher elevations, valleys are commonly filled with glaciers. Semi-permanent ice and snow may be encountered on north facing slopes. Snow conditions are extreme in alpine areas while river bottom areas receive little, if any, snow. However, precipitation in the form of rain occurs all year round.

Valley bottoms are densely forested with mature stands of fir, sitka spruce, cedar, hemlock, aspen, alder, and maple. A thick undergrowth of ferns, salmonberry, huckleberry, copperbrush, and devils club is usually present.



TAGISH J.V.		
AFTOM PROJECT		
LOCATION MAP		
1995 ESKAY PROJECT		
SCALE: AS SHOWN	NTS:	DATE: NOV.1996
APPROVED BY: G.B.	FILE NO. FIG1.DWG	FIGURE NO. 1
CANAMERA GEOLOGICAL LTD		

Property and Program

Claims

The 1996 exploration by Canamera in the Eskay Creek area was done on various Aftom, Dup, Fred, Hags, Hob, Hop, Mojo, Noot, Pmac and Rags claims. The work and dates of work done on individual claims is listed in the Statements of Work in Appendix 3. All of these claims are in the Skenna and Liard Mining Divisions. The claims are privately owned and held in the name of Tagish Resources, Alex H. Briden or Briden/El Cap Gold Mines. All the work was done by Canamera Geological Ltd. The following is a list of claims which were explored or had assessment filed from contiguous claims:

Claim Name	TNR #	NTS	# of Units	Anniversary Date	Owner
Aftom 1	253140	104 B9W	20	97/09/06	Tagish
Aftom 3	253142	104 B9W	12	97/09/09	Tagish
Aftom 4	253143	104 B9W	12	97/09/10	Tagish
Aftom 5	253144	104 B9W	20	97/09/10	Tagish
Aftom 7	253146	104 B9W	16	97/09/16	Tagish
Aftom 10	253148	104 B9W	20	97/09/09	Tagish
Aftom 11	253149	104 B9W	20	97/09/09	Tagish
Aftom 13	253151	104 B9W	20	97/09/11	Tagish
Aftom 16	253154	104 B9W	20	97/09/18	Tagish
Dup 9	252489	104 B9W	20	98/02/24	Briden/El Cap
Fred 15	253295	104 B10E	15	00/10/11	Briden, H. Alex
Hags 5	253254	104 B9W	15	97/09/30	Briden, H. Alex
Hob 3	313286	104 B9W	1	97/09/10	Tagish
Hob 4	313287	104 B9W	1	97/09/10	Tagish
Hob 8	313291	104 B9W	1	97/09/12	Tagish
Hob 8.5	313292	104 B9W	1	97/09/12	Tagish
Hob 9	313293	104 B9W	1	97/09/12	Tagish
Hob 10	313294	104 B9W	1	97/09/12	Tagish
Hob 11	313295	104 B9W	1	97/09/12	Tagish
Hob 12	313296	104 B9W	1	97/09/12	Tagish
Hob 13	313297	104 B9W	1	97/09/12	Tagish
Hob 14	313298	104 B9W	1	97/09/12	Tagish
Hob 15	313299	104 B9W	1	97/09/12	Tagish
Hob Frac	313301	104 B9W	1	97/09/17	Tagish
Hop 5	313288	104 B9W	1	97/09/10	Tagish
Hop 6	313289	104 B9W	1	97/09/10	Tagish
Hop 7	313290	104 B9W	1	97/09/10	Tagish
Mojo	320729	104 B9W	20	97/08/28	Tagish
Mojo 2	321037	104 B9W	20	97/09/14	Tagish
Noot 1	306723	104 B10E	20	00/11/29	Tagish
Noot 2	306724	104 B10E	20	00/11/29	Tagish
Noot 3	306725	104 B10E	20	97/11/29	Tagish
Noot 4	306726	104 B10E	20	00/11/29	Tagish
Noot 5	306727	104 B9W	20	97/11/25	Tagish
Pmac 1	253176	104 B10E	1	00/09/14	Briden, H. Alex
Pmac 2	253177	104 B10E	1	00/09/14	Briden, H. Alex

Pmac 3	253178	104 B10E	1	00/09/14	Briden, H. Alex
Pmac 4	253179	105 B10E	1	00/09/14	Briden, H. Alex
Pmac 5	253180	106 B10E	1	00/09/14	Briden, H. Alex
Pmac 6	253181	107 B10E	1	00/09/14	Briden, H. Alex
Pmac 7	253182	104 B10E	1	00/09/14	Briden, H. Alex
Pmac 8	253183	108 B10E	1	00/09/14	Briden, H. Alex
Pmac 9	253184	104 B10E	1	00/09/14	Briden, H. Alex
Pmac 10	253185	104 B10E	1	00/09/14	Briden, H. Alex
Rags 1	224392	104 B9W	16	97/09/30	Briden, H. Alex
Rags 2	224393	104 B9W	16	97/09/30	Briden, H. Alex
Rags 3	224394	104 B9W	16	97/09/30	Briden, H. Alex
Rags 4	224395	104 B9W	16	97/09/30	Briden, H. Alex

This volume will detail the work done on the Fred 15, P-mac 1-10, and Noot 1-4 claims. The rest of the claims were covered in the first volume of this report.

Objectives

The objective of the 1996 exploration program consisted of three parts. First, a structural analysis of the northern Bowser Lake Group claims in order to evaluate the possibility of Hazelton Group rocks extending underneath. Second, a UTEM geophysical program and detailed mapping on the Fred 15 and Pmac claims to follow up on the anomalous gold showings found in 1995. Third, further reconnaissance mapping and sampling within areas of potential Upper Hazelton Group Unit 5 rocks.

Scope of Program

During the 1996 field season, Canamera conducted a field program of structural, grid, and reconnaissance mapping, prospecting, soil geochemical sampling, and UTEM geophysics. The structural and reconnaissance mapping was done at 1:5000 while the detailed grid mapping was at 1:1000 scale. Ground control was established with B.C. government air photos, 1 to 5000 metric contour maps, and, in the Fred 15 area, 1:1000 metric contour maps based from 1:10000 orthophotos. Existing grids from previous work and new flagged lines were used for reconnaissance mapping and soil sampling. A new cut and surveyed grid was the basis of the detailed mapping and UTEM program in the Fred 15 area. One new helipad was cut on Aftom 7. No trenching was done.

Personnel and Dates

Geologists Dane Bridge and Greg Burroughs performed mapping and prospecting. Professor Simon Haynes performed the mapping and structural interpretation on the Bowser Lake Group. Assistants Jason Shaw, Ayisha Yeow, Jason Attard, and Jason Gallagher performed soil sampling, and grid flagging. MFH Contracting was used to cut the new grid while Fred Kaiser and

Jason Scoffings surveyed it. SJ Geophysics Ltd. performed the UTEM survey. Field work was done between August 11th and September 16th 1996. Information on days worked by specific individuals is included in the cost statements in Appendix 2.

Data Presentation

Distribution of Work Done in 1996

This report documents the work for a total of eight statements of work (Appendix 3) on seven claim groups and one individual claim. There are a total of eight cost statements (Appendix 2) distributing the work done on these groups and claim. This volume of the report will cover two statements of work and cost statements 7 and 8. The remaining statements of work and cost statements were covered in volume one.

Geologic Mapping

Structural, grid, and reconnaissance mapping at 1:5000 is presented on six topographic sheets. Detailed mapping, on the Fred grid, at 1:1000 is presented on two topographic sheets.

The geologic and geochemical data and interpretation in this report is organized into sections based on the location within the Eskay work area. Five individual areas had work performed on them. This volume covers the work on project area 5 while project areas 1-4 were covered in volume one.

Individual Project Areas

Project Area 1 - Bowser Lake Structural Study (Map sheets 2-7, in volume 1)

Project Area 2 - Aftom 5 (Map sheet 8, in volume 1)

Project Area 3 - Aftom 7 Group (Map sheet 9, in volume 1)

Project Area 4 - Dup 9 Group (Map sheets 10-11, in volume 1)

Project Area 5 - Fred Groups (Map sheets 12-14, in volume 2)

Geochemical Sampling

Soil and rock sampling was done in conjunction with prospecting and mapping. Soil and rock samples are located on the grids or lines where they were collected and are plotted on the

1:5000 topographic sheets. Sample location maps are listed in the list of maps and analytical results are in the appendices.

Soil samples were collected in the B horizon using a mattock and narrow shovel. Samples were collected in high wet strength kraft paper bags and shipped to Chemex Labs Ltd. The grids were sampled on 25 meter centers on 100 meter spaced lines. Reconnaissance soil lines were up to two kilometers long with samples taken every 25 meters. Infill sampling was done on the 1995 Dup 9 grid with new lines every 100 meters between the 2+50m to 7+50m south stations. Minor infill sampling was done, around a single anomalous 1995 sample, on the Fred grid. Results plotted or discussed in this report are in ppb for Au and ppm for all other elements. Nine soil sampling lines were established in 1996 to test the prospective areas, and portions of the 1996 Fred grid were sampled to test the ground yet untested. The individual soil lines and grids are discussed in this report in conjunction with the individual project area where they are located.

Geochemical statistics reported for sampling on the soil grids are threshold, and anomalous. Threshold is mean plus one standard deviation and anomalous is mean plus two standard deviations. Samples with high Mn or Fe contents and indications of adsorption were removed from the sample populations used to calculate statistics.

Rock samples were collected in areas of anomalous pyrite or other sulphide concentrations, or from outcrops with quartz veining or hydrothermal alteration assemblages. Rock sample descriptions are in Appendix 4 and analyses are in Appendix 5.

Analytical Procedures

Soil and rock samples were processed and analyzed by Chemex Labs Ltd., North Vancouver, British Columbia.

Geochemical Gold Analysis

Samples for geochemical Au analysis are catalogued and dried. Soils are prepared by sieving through an 80 mesh screen to obtain a -80 mesh fraction. Rock samples are crushed in two stages to -10 mesh and a 250 gram subsample is pulverized on a ring mill to -140 mesh. The subsample is rolled, homogenized and bagged in a prenumbered bag. The sample is weighed to 10 grams and fused with flux. The bead is digested in aqua regia and analyzed by AA. Over-range samples are re-analyzed using gold assay methods. Appropriate reference materials accompany the samples through the process allowing for quality control. Results are entered and printed along with quality control data (repeats and standards).

Multi Element ICP Analysis

Soil samples are screened to obtain a -80 mesh sample. Rock samples are crushed in two stages to -10 mesh and pulverized on a ring mill to -140 mesh and rolled and homogenized. A 1.0 gram sample is digested with concentrated nitric and aqua regia acids. The aqua regia contains beryllium which acts as an internal standard. The sample is analyzed on a Jarrel Ash ICP unit. Results are collated by computer and printed along with quality control data.

Gold Assays

Samples are sorted, dried and crushed in a jaw crusher and cone or roll crusher to -10 mesh. The sample is split through a Jones riffle until a 250 gram subsample is achieved. The subsample is pulverized in a ring and puck pulverizer to 95% -140 mesh then rolled and homogenized. Appropriate standards and repeats for quality control accompany the samples and are printed with the sample results.

Base Metal Assays

Samples are catalogued and dried. Rock samples are crushed in two stages followed by pulverizing a 250 gram subsample. The subsample is rolled, homogenized and bagged in a prenumbered bag. A suitable sample weight is digested with aqua regia. The sample is cooled, bulked up to a suitable volume and analyzed by an AA instrument with a 0.1 ppm detection limit. Appropriate certified reference materials accompany the samples through the process for quality control. Result data is entered along with repeat values.

Regional Geology

Introduction and Previous Work

The regional geology of the claim area was established by geologists of the Geological Survey of Canada (Anderson, 1989; Anderson and Thorkelson, 1990) and the British Columbia Geological Survey Branch (Alldrick and Britton, 1988; Alldrick et al., 1989, 1990). Lewis (1992) established a structural framework for the Prout Plateau, which is along the western margin of the claims.

Exploration on the claims has focused on discovering Eskay Creek type deposits. The Eskay Creek deposit and property geology are described by Bartsch (1990a and b), Idzizek et al. (1990), Blackwell (1990), Britton et al. (1990), Ettliger (1991), Roth and Godwin (1992) and Roth (1993a, 1993b).

The claim area is underlain largely by Jurassic volcanic and sedimentary strata of the Hazelton Group and Bowser Lake Group. A portion of the most eastern Hazelton Group rocks is underlain by an area of Triassic Stuhini Group. Some previously unrecognized intrusive rocks, probably of Jurassic age, form sills or dikes in the Hazelton Group.

Stuhini Group

The oldest Mesozoic strata in the region are sedimentary and volcanoclastic rocks of the Triassic Stuhini Group. The Stuhini Group consist of a dominantly sedimentary lower division and a dominantly volcanic and volcanoclastic upper division. Most of the sedimentary division comprises undifferentiated fine grained well bedded rocks but coarser conglomerate layers serve as local stratigraphic markers. The volcanic division is locally subdivided into mafic to intermediate tuff and volcanic breccia, mafic porphyritic flows, and felsic flows and flow breccia.

Hazelton Group

The Hazelton Group has undergone considerable redefinition since it was defined to encompass Jurassic and Cretaceous volcanic and sedimentary strata of the Skeena River region of central British Columbia. Present usage is restricted to Lower and Middle Jurassic volcanogenic and sedimentary strata in this region (Tipper and Richards, 1976). Hazelton Group rocks are widely distributed within Stikinia, outlining much of the Bowser Basin, and were first described in the Iskut River camp by Schoefield and Hanson (1992). Noting differences from classical Hazelton Group sequences, Grove (1986) established a formational nomenclature for the Iskut River-

Salmon River-Anyox region separate from existing, more regional, definitions. The nomenclature, with subsequent modifications by Anderson and Thorkelson (1989), Alldrick (1991), and Henderson et al. (1992), outlines a five-fold division within the Hazelton Group in the Iskut river camp, comprising the Jack, Unuk River, Betty Creek, Mount Dilworth, and Salmon River formations (Jack and Mount Dilworth formations not formally defined). Difficulties in correlating these units regionally, ambiguous stratigraphic relations at type sections, and apparently contradictory age assignments (Lewis et al. 1992, 1993) have led to inconsistent usage of these formational divisions in the Iskut River area. Lewis (1995) has divided the Hazelton Group into 5 rock-stratigraphic units. These units comprise, from lowest to highest: i) basal, coarse to fine grained, locally fossiliferous siliciclastic rocks or granitic pebble conglomerate, ii) porphyritic andesitic composition flows, breccias, and related epiclastic rocks, iii) dacitic to rhyolitic flows and tuffs, iv) locally fossiliferous marine sandstone, mudstone, and conglomerate, and v) bimodal subaerial to submarine volcanic rocks and intercalated mudstone.

Hazelton Group Stratigraphy

Unit 1: Lower Hazelton Group sedimentary strata

Basal Hazelton Group typically consists of locally fossiliferous conglomerate, sandstone, and siltstone which overlie Stuhini Group rocks along a disconformity or angular unconformity. This basal clastic sequence varies from a few tens to a few hundreds of meters in thickness except in the western Iskut area (Johnny Mountain section) where it is absent. Unit 1 is best exposed along the Unuk River, where medium to coarse grained, medium to thickly bedded, trough cross-stratified arenitic sandstone is characteristic. Distinctive rounded clast supported granitic and volcanic cobble conglomerate form much of Unit 1 near Sulphurets Creek and are interstratified with the arenitic sandstones. Pelecypod coquinas with a calcareous sandstone matrix are common near the Bruce Glacier section, and are transitional to medium bedded silty limestone. Less common rock types include intermediate welded tuff at Bruce Glacier, and phyllitic turbiditic mudstones near Jack Glacier.

In the southern Iskut River camp near the Salmon Glacier, Alldrick (1991) describes thick siltstone intervals which may be finer grained equivalents to Unit 1 in the north. These siltstones, classified as part of the Unuk River Formation by Alldrick, contain faunal assemblages of similar age to Unit 1 assemblages near Eskay Creek (Anderson, 1993). This correlation implies that lower parts of Alldrick's Unuk River Formation are actually within the Stuhini Group, an assignment consistent with available lithologic and chronologic constraints of the area.

Unit 1: Age

Fossil assemblages collected from Unit 1 exposures along the Unuk River indicate a Lower Jurassic age. Well preserved ammonites *Paracaloceros* and *Badouxia Canadensis* occur in the Eskay Creek and Treaty Glacier areas, and are diagnostic of an Upper Hetangian to Lower Sinemurian age. Unconformably underlying Stuhini Group turbiditic siltstone to mudstone in this area contain Upper Norian *Monotis cf. subcircularis* bivalves, providing a maximum age for Unit 1. Upper limits are provided by Upper Pliensbachian ammonite collections from Unit 4 at Eskay Creek and John Peaks (see Unit 4 description).

Isotopic age constraints from bounding units corroborate an Early Jurassic age. Dacitic crystal tuff in the underlying Stuhini Group at John Peaks yields a U-Pb zircon age of 215-220 Ma (V. McNicoll reported in Anderson, 1993), and a granitic clast from Unit 1 in this same section has an age of about 225 Ma. A U-Pb zircon age of 193 ± 1 Ma for Unit 2 flows at Johnny Mountain (M.L. Bevier, pers. comm. to P. Lewis, 1994) .

Unit 2: Andesitic flows, breccias, and volcanoclastic rocks

Unit 2 andesitic flows, volcanic breccias, and related epiclastic rocks succeed basal Hazelton Group clastic strata in much of the Iskut River area. Lateral thickness variations are pronounced in this unit; coarse volcanic breccias for accumulations up to two kilometers thick; these localized deposits may pinch out completely in distances of less than five kilometers. Unit 2 sharply and conformably overlies Unit 1 in most locations, but near Johnny Mountain it overlies folded Stuhini Group rocks along a sharp angular unconformity.

The thickest and best preserved sections of Unit 2 are at Eskay Creek, Johnny Mountain, Treaty Creek, and Salmon Glacier. In these locations, hornblende and plagioclase phyric andesitic to dacitic flows and dark green volcanic breccias are intercalated with lapilli to block tuff, and lesser amounts of epiclastic sandstone and wacke. Volcanic breccias are monolithologic to slightly poly lithic, commonly contain vesicular clasts, and have a plagioclase rich volcanic matrix. At Salmon Glacier, two distinct members are differentiable: a lower porphyritic andesitic volcanic breccia to block tuff (Unuk River formation of Alldrick, 1991), separated by plagioclase-hornblende-potassium feldspar megacrystic flows or sills from an upper, maroon, well bedded epiclastic conglomerate to sandstone member (Betty Creek Formation of Alldrick, 1991).

Unit 2: Age

The age of Unit 2 is constrained by fossil collections from bounding units, and by isotopic age determination of volcanic flows at Johnny Mountain. An older age of Upper Hettangian to Lower Sinemurian is provided by fossil collections from underlying Unit 1 (described above). Strata overlying Unit 2 contain Upper Pliensbachian ammonites at Eskay Creek and near John Peaks (see Unit 4 description), bracketing the age of Unit 2 to Sinemurian or Pliensbachian. U-Pb zircon ages at Johnny Mountain corroborate this timing. Plagioclase phyric dikes cutting Unit 2 have a zircon U-Pb age of 192 ± 3 Ma, while samples of Unit 2 flows yield U-Pb zircon ages of 193 ± 1 Ma. Overlying felsic tuffs provide a further bracketing constraint of 194 ± 3 Ma (M.L.Bevier, pers. comm., to P. Lewis, 1994).

Unit 3: Felsic pyroclastic rocks and rhyolite flows

Stratigraphic correlations above Unit 2 have traditionally been more problematic than in older rocks, leading to contradictory and confusing application of existing nomenclature. A common approach to lithologic mapping in the Iskut River area has been to use a felsic pyroclastic unit overlying Unit 2 volcanic rocks as a marker. This method has resulted in inconsistencies in the assigned stratigraphic position and ages of both the datum felsic unit and bounding units, a problem which was partially resolved by the recent recognition that felsic volcanic rock occur at more than one stratigraphic level (Anderson, 1993; Lewis et al., 1993). Still, assigning a particular felsic volcanic succession to one of these two units on the basis of lithological characteristics alone is difficult, making geochronological and biochronologic age control particularly useful.

Present geological constraints indicate that the oldest rocks overlying Unit 2 consist of regionally discontinuous felsic flows and pyroclastic rocks (Unit 3) which are common in the southern and western portion of the Iskut River area (Johnny Mountain), but are thin to nonexistent in the northeast. Twenty kilometers west-northwest of Salmon Glacier near Granduc Mountain, Unit 3 comprises a megaclastic breccia and laterally equivalent lapilli tuff which overlies bedded crystal to dust tuff and volcanic conglomerate. To the north, water lain crystal and ash tuffs just south of John Peaks, and multiple thin cooling units of crystal rich welded lapilli tuff at Treaty Creek are likely equivalents. Possible vent areas for eastern Unit 3 rocks at Brucejack Lake (Sulphurets area) comprise massive, flow banded dacite domes which grade outward into autobreccia and massive, hematitic mud matrix volcanic breccia (Macdonald ref), and potassium feldspar megacrystic flow banded flows. In the western Iskut River area at Johnny Mountain, dacitic to rhyolitic flows and welded lapilli tuff which overlie the lower Hazelton andesite-dacite sequence form Unit 3.

Unit 3: Age

Numerous new U-Pb ages indicate that the early pulse of felsic volcanism in the Hazelton Group near Iskut River spanned a 5-10 million year period. The oldest age of 194 ± 3 Ma was obtained from flow rocks interlayered with lapilli tuff at Johnny Mountain (M.L. Bevier, pers. comm., to P. Lewis, 1994). This section also has the most felsic rocks included in Unit 3. Zircon extracted from bedded ash tuffs at John Peaks yielded a slightly younger U-Pb age of 190 ± 1 Ma (R. Anderson, pers. comm., to P. Lewis, 1994). Several other Unit 3 isotopic ages fall within the 185-188 Ma range. Vent related dacite at Brucejack Lake yield U-Pb ages of 185.6 ± 1.0 Ma and 185.8 ± 1 Ma. Laterally equivalent potassium feldspar megacrystic dacite flows yield overlapping ages of $187.7 \pm 5.8/-1.5$ Ma. Welded tuff at Treaty Creek has an age of 183-185 Ma (R.G. Anderson, pers. comm.). In the Granduc Mountain area, the dacite breccia is nearly identical in age to Brucejack samples at 186.6 ± 15.6 Ma.

Unit 4: Upper sedimentary sequence

Heterogeneous sedimentary strata including sandstone, conglomerate, turbiditic siltstone, and limestone characterize Unit 4. Many of the rock types of Unit 1 are present in Unit 4, but the occurrence of clasts derived from Unit 2 volcanic rocks, and the absence of the distinctive granitic clast conglomerate serve to differentiate the two units. In areas lacking strata of Units 2 and 3, such as near the Bruce Glacier, the division between Units 1 and 4 is difficult to establish and often must be defined on the basis of local stratigraphic characteristics.

Unit 4 varies from a few meters to several hundreds of meters thick. Thickest measured sections are present at Treaty Creek, and at Eskay Creek, while at Johnny Mountain the unit is nonexistent. The most distinctive rock type within Unit 4 consists of rusty brown to tan weathering, bioclastic sandstone and intercalated siltstone or argillite. At Salmon Glacier, this lithology forms a layer 2-3 meter thick, and represents the total thickness of Unit 4. To the north at Treaty Ridge, the bioclastic unit is succeeded by a several hundred meter thick turbiditic mudstone to sandstone section. Bioclastic sandstones are also present in Unit 4 at Eskay Creek and John Peaks, where they are interstratified with siltstone, arenitic sandstone, and heterolithic rounded cobble conglomerate. West of these areas, a thick, grey weathering, medium bedded limestone and siltstone sequence is a probable stratigraphic equivalent to Unit 4.

Unit 4: Age

Abundant and diverse fauna within Unit 4 which span Late Pliensbachian to Late Aalenian stages suggest that the unit records a long period of volcanic quiescence (Nadaraju, 1993). Late

Pliensbachian ammonite collections provide age constraints at three locations: at Eskay Creek, bioclastic sandstones contain ammonites *Tiltonicerous* cf. *propinquum* and *Protogrammoceras*; a lithologically similar section at John Peaks and interstratified limestone and siltstone sections to the west at Lyons Creek both yield the Kunae Zone (Upper Pliensbachian) ammonite *Arietoceras* cf. *algovianum*; at Treaty Creek the base of Unit 4 is slightly younger where diverse faunal collections from the bioclastic sandstone includes Toarcian belemnites. Higher in this same section, ammonites, *Tmetoceras* cf. *Kirki*, *Leioceras*, and *Pseudolioceras* constrain an Upper Aalenian age for turbiditic mudstone and siltstone. Together, these fossil occurrences suggest that Unit 4 sedimentation spans the Upper Pliensbachian, the Toarcian, and most of the Aalenian stages, although no single section includes fauna diagnostic of all three stages. Isotopic ages in the Iskut River area are consistent with a magmatic gap in this time period. Clusters of ages at around 185 Ma and 177 Ma are associated with Unit 3 and Unit 5 volcanism respectively.

Unit 5: Bimodal volcanic unit

The upper part of the Hazelton Group in the Iskut River camp comprises dacitic to rhyolitic flows and tuffs, localized interlayered basaltic flows, and intercalated volcanoclastic intervals. Although these different rock types can easily be mapped separately in a property scale, their interfingering nature and lack of continuity dictate that they be grouped into a single unit for regional mapping purposes. This part of the Hazelton Group has attracted the most attention of geologists due to its association with mineralization at Eskay Creek, but at the same time its distribution, internal stratigraphy, and age are poorly understood. Previous workers have mapped felsic volcanic components as a distinct facies of the Salmon River Formation. These assignments become problematic with new work which demonstrates that locally more than one horizon exists, and that mafic volcanic rocks occur both above and below these felsic intervals.

In most locations Unit 5 conformably succeeds Unit 4 sedimentary strata. Condensed sections on the northern part of the McTagg anticlinorium feature disconformable relationships between Unit 5 and Unit 1. Unit 5 felsic volcanic rocks are ubiquitous in the northern Iskut River area. Most sections feature a single layer of felsic strata which vary in thickness from a few tens of meters to a few hundred meters. Lithofacies within the felsic intervals are highly variable both regionally, and vertically in a given section. Deposits proximal to extrusive centers include banded flows, massive domes with carapace breccias, autoclastic megabreccias, and block tuffs. Extrusive centers have been identified at several locations in the Iskut River area, including Eskay Creek, Brucejack Lake, and Bruce Glacier. These felsic extrusive centers are characterized by thick, dome shaped porphyritic centers, grading outward to flow breccias and talus piles. Slightly to densely welded lapilli to ash tuffs characterize more distal equivalents. Reworked tuffs locally form thick epiclastic accumulations, and may fill in paleobasins adjacent to extrusive centers. At

Salmon Glacier, Unit 5 comprises well stratified, variably welded dacitic ash and lapilli tuff which forms the type section of the Mount Dilworth Formation (Alldrick, 1991). Overlying thinly interbedded turbiditic siltstone/argillite and tuff form distinctive black and white striped strata ("pajama beds") at Salmon River, and to a lesser extent, in northern parts of the area. At Troy ridge, this is the only rock type present in Unit 5.

Mafic components of Unit 5 are more localized in their distribution and are missing from much of the Iskut River camp. Generally they occur above the felsic volcanic rocks, but at Treaty Creek thick sections of mafic flows and breccias lie below felsic welded tuffs. Mafic sections are thickest at Mount Shirley and near the mouth of Sulphurets Creek, and form intermediate thicknesses at Eskay Creek and Johnny Mountain. Rocks present include massive flows, pillowed flows, broken pillow breccias, and volcanic breccias. Plagioclase phenocrysts up to two centimeters long are characteristic of the pillowed sequence south of John Peaks. At Treaty Glacier the mafic component grades upward from pillowed and massive flows into broken pillow breccia, and finally, hyaloclastite matrix supporting abundant irregular globular volcanic fragments.

Unit 5: Age

Flows across the Unuk River from Eskay Creek, near the Bruce Glacier, yielded an age of 176.2 ± 2.2 Ma. Faunal assemblages from strata underlying Unit 5 are as young as Late Aalenian (Treaty Creek). At Eskay Creek fossil control is available within Unit 5 itself: radiolarians removed from the mineralized "contact" argillite, which occurs between the felsic and mafic volcanic intervals constrain an Aalenian age. Numerous Bajocian fossil collections from sedimentary successions overlying Unit 5 constrain the youngest biostratigraphic age for the unit.

Bowser Lake Group

The Middle and Upper Jurassic Bowser Lake Group contain the youngest Mesozoic strata in the claim area. In general, the Bowser Lake Group consists of a thick succession of shale and silty mudstones, with local buff sandstone interbeds, lesser amounts of interbedded chert rich conglomerate and conglomerate. It conformably or paraconformably overlies Hazelton Group rocks. In many areas the boundary between Bowser Lake and Hazelton rocks is unclear and is not defined.

Rich faunal collections from Bowser Lake Group turbiditic mudstones in the Prout Plateau define a Bathonian to Callovian age for lowest exposed stratigraphic levels (G. Nadaraju, personal

communication to P. Lewis, 1992). Outside of the Iskut River map area, Kimmeridgian faunas are characteristic of higher stratigraphic levels.

Bowser Lake Group strata in the northern part of the claim area consists primarily of highly deformed turbiditic wackes and slates, and subordinate conglomerate and sandstone. These are distinctly different from typical Bowser Lake Group strata and appear to represent a separate subterranean of greenschist facies grade metamorphosed turbidites. New information on this and the Bowser Lake Group comprises much of volume one of this report.

Intrusive Rocks

Anderson (1989, 1993) suggests that Triassic and Jurassic intrusive activity in the Iskut River area can be divided into 5 cycles. He defines four distinct plutonic suites, three of which he relates to co-spatial and coeval volcanic suites. Plutonic rocks other than mafic dikes intrude Jurassic Hazelton Group or Bowser Lake Group strata. With the exception of the feldspar porphyry unit at Eskay Creek (U-Pb zircon age of 186 ± 2 Ma, Macdonald et al., 1992; Ghosh, 1992), reliable radiometric ages for plutons are lacking in the area. Undated plutons are assumed, on the basis of intrusive relationships and composition, to be members of the Jurassic Texas Creek or Three Sisters plutonic suites (Anderson and Bevier, 1990), with extrusive equivalents within the Hazelton Group.

Project Area 5

Location and Claims

Project Area 5 is the Fred grid which is located on Fred 15 and the Pmac claims. It is located on NTS map area 104B/10, approximately 9 kilometers southwest of the Eskay Creek mine. The area lies between 405,000 to 406,000 E and 6,272,000 to 6,274,200 N. The geology was mapped at 1:1000 and is shown on Maps 12 and 13.

Previous Work

Prospecting, and rock and soil sampling was done in 1989 on Fred 16 and Dup 8 (Hopper, 1989b). The ground was restaked as Fred 15, some of the Pmac claims and Noot 3. A number of areas with very weak sericitic alteration and minor disseminated pyrite were observed. A grab sample, apparently from Pmac 3 assayed 33 grams per tonne Au and 1610 grams per tonne Ag.

A single hole was drilled on the Fred 15 claim on the North Coulter property in 1990 (Verzosa, 1990). However, the drilling was done prior to abandoning and restaking of the claims. Therefore, the position of land staked as Fred 15 changed. The drill hole reported in 1990 is located south of the SIB claim block. It is not on the claim currently called Fred 15, nor is it on any claims reported on in this report.

In 1995, Canamera Geological Ltd. chained and flagged in a grid over the Pmac claims and the western portion of Fred 15. Detailed mapping, soil sampling and prospecting were done on this grid to follow up on an anomalous boulder sample. This resulted in multiple rock samples returning values over 1 gram gold per tonne along with other elevated samples (Bridge and Burroughs, 1995).

Grid Cutting

For the 1996 program a new grid was cut and tight chained by MFH Contracting. The grid consists of approximately 17.6 kilometers of cutline including the baseline. The baseline is two kilometers long with crosslines every 100 meters. The azimuth of the baseline is 355°. The stations were located by an in-house survey, and the grid was tied into topographical features. The grid was surveyed to supply the necessary accuracy for proper interpretation of the UTEM geophysical program. A result of the survey is that the grid station labeling does not match the surveyed map coordinates due to the high topographical relief contrast. Therefore, the tight chained 25 meter stations are less than 25 meters in actual horizontal distance.

General Geology

Area 5 contains a section of Hazelton Group Unit 5 rocks and is very close to the overlying sedimentary rocks of the Bowser Lake Group in the area of Tom Mackay Lake. The structural position of Area 5 is unclear. It is west of the west limb of the gently northeasterly plunging Eskay Creek anticline and west of the strike extension of the Mackay syncline. It contains mainly subhorizontal to gently dipping strata, so may lie along the axis of the Mackay syncline or may be less affected by major isoclinal folding than the region immediately north and northeast. Poorly constrained fold structures are difficult or impossible to map because of a lack of stratigraphic markers, early northeasterly to east-northeasterly faults, west verging thrust faults and later northerly oriented faults.

Area 5 is directly overlain to the north by Bowser Lake Group rocks so mainly contains upper Hazelton Group stratigraphy. Bowser Lake Group rocks occur in the east portion of Area 5 in fault contact with Hazelton Group rocks. Bartsch (1993b) interprets the area to be upper Hazelton Group and essentially at the same stratigraphic level as the Eskay Creek deposit. However, he interprets the volcanic facies to be polymodal, distal facies rather than proximal vent facies as at Eskay Creek. Sedimentary rocks are shallow marine argillite facies as at Eskay Creek. This is consistent with the mapping by Canamera.

However, it can be very difficult to distinguish proximal facies from distal facies in the Hazelton Group volcanic rocks. Initial literature on the Eskay deposit emphasized rhyolitic breccia and tuffaceous textures (Blackwell, 1990) in the rhyolite at the Eskay deposit, although flow banded clasts were also mentioned (Britton et al., 1990). Only after extensive drilling and more rigorous observations did the emphasis swing to the interpretation of the classical proximal dome facies of Williams and McBirney (1979) which are described as the proximal facies at Eskay by Bartsch (1993b).

Claim Geology

A general stratigraphic lithology has been determined from the 1995 and 1996 mapping. From younger to older rocks, the sequence is; andesites to basaltic andesites, interbedded rhyolites to dacites, siltstones to mudstones with thin interbedded felsic volcanics, a second group of rhyolites to dacites, and lastly a fine pebble (grits) conglomerate.

The andesites and basaltic andesites occur as massive flows to andesitic breccias. Pillowed flows, pillow breccias and amygdaloidal flows also occur. Thin interflow mudstones are common within the mafic to intermediate volcanic rocks.

The upper unit of rhyolites and dacites are massive to intensely fractured or brecciated. These commonly contain monolithic or heterolithic clasts which range from angular to rounded in shape. Flowbanding is seen primarily in the clasts but it is also seen in some of the more massive rhyolite outcrops. They appear to be distal facies rather than flow dome facies which, at the Eskay Creek Mine, has flow banding and autobrecciation. Often the rhyolites lower in this unit appear to be flows which intruded into mudstones. They have bases or margins of rhyolitic fragmental rocks to black matrix rhyolite breccias. Minor areas of rhyolitic and dacitic lapilli tuff occur. These lapilli tuffs are at the base or margins of flows. This indicates that the flows were preceded by lapilli tuffs from plinian or phreatic eruptions as were the flow domes associated with the Eskay Creek deposit. Interflow siltstones and mudstones are a part of this unit, however they are volumetrically small compared to the volcanics.

The siltstone and mudstone unit is composed of monotonous fine grained sediments which are strongly fractured into small friable pieces. This, generally, causes the unit to weather down and makes structural measurements problematic. Interbedded with the sediments are thin rhyolite and dacite flows. The rhyolite, the more common of the two, occurs as black matrix breccias with varying degrees of silica content in the matrix. The dacite flows tend to be more competent than the rhyolites but their thin width causes them to weather the same.

The lower rhyolite and dacite unit also consists of heterolithic and monolithic fragmentals. However, black matrix rhyolites are not seen and interbedded sedimentary rocks are rare compared to the upper unit. Another indication that this unit is different from the upper felsic unit is that the soil geochem over this area shows a lack in the As signature but a possible weak enrichment in Zn.

The lowest unit in the mapping area is a fine pebble conglomerate. This is seen on line 13N and 14N at approximately 5+50E. Topography and geology indicate that that the unit is part of a upthrown fault block but from what depth is unknown.

Intense block faulting and strong weathering of the siltstones does not allow easy correlation within the units or full understanding of the stratigraphy. The first three units appear continuous but the depth from which the last two units were faulted up from and their relation to the upper units is unknown.

The gold mineralization discovered in 1995 is associated with the siltstone/rhyolite unit. All of the anomalous 1995 samples came from rhyolitic boulders or outcrop. The type of rhyolitic flow

varies from massive to fragmental but in all cases they are weathering out as if sourcing from a thinner, easier eroded flows. The differing lithologies would indicate multiple mineralized horizons, all interbedded with the more abundant siltstones/mudstones. This would make the andesite/basaltic andesite unit and the upper felsic volcanic unit, which cover most of the ground from 18N to 22N, hangingwall lithologies with potential mineralization underneath them.

1996 mapping has confirmed shallow dips and erratic strikes. The block faulting has divided the area into smaller packages with most of them displaying different strikes and dips. This may be an indication of local drag folding in response to the faulting or a possible undulating stratigraphy before the faulting. In either case, relatively flat lying stratigraphy is indicated.

Geophysics

The focus of the 1996 work on the Fred grid was the completion of a UTEM geophysical program. SJ Geophysics Ltd. was responsible for the collection and interpretation of the data. Their report is presented in appendix 1. Overall, the survey shows weak linear anomalies which appear to correspond well with known and interpreted faults. There is also a deep seated resistivity low but there is no other geological data with which to relate it to so interpretation is vague.

Soil Sampling

A total of 330 soil samples were collected on the 1996 Fred grid. The majority (322) of the samples were taken on lines 21 N to 10 N at 25 meter stations. Overall, the samples returned few truly anomalous values, but the statistically anomalous and threshold results produced some general patterns.

Fred Grid	Ag	As	Ba	Bi	Cd	Co	Cu	Mo	Ni	Pb	Sb	Zn
Mean	0.5	5	50	<2	<0.5	11	21	4	14	12	2	90
Standard Deviation	0.6	8	27	<2	<0.5	6	22	2	11	16	<2	51
Threshold	1.1	14	77	2	<0.5	17	44	6	25	28	3	141
Anomalous	1.7	22	104	3	1	23	66	8	36	44	5	191
Range Maximum	5.6	74	160	4	5	42	235	24	62	262	6	462
Minimum	<0.2	<2	10	<2	<0.5	1	<1	<1	<1	<2	<2	32
# of Samples	330	330	330	330	330	330	330	330	330	330	330	330

Gold values are generally under the detection limit (< 5 ppb) but there are four samples with elevated results. These four values are single point anomalies and appear to be erratics. The 950 ppb Au sample is interesting because it occurs within the siltstone/rhyolite unit which

appears to have the highest potential for Au mineralization. However, this sample occurs in a topographic low and is a single point anomaly so its significance is questionable.

The arsenic values range from under the detection limit (<2 ppm) to 74 ppm. The anomalous and threshold values are not high enough to indicate mineralization but the concentration of these samples from line 17 to 21 N roughly outline the area of the upper felsic volcanic and the siltstone/rhyolite units which is the main units of interest.

Along the eastern edge of the grid, a trend of anomalous and threshold nickel values are seen. These occur on the eastern side of the major topographic break that runs along the western shore of Pmac and Barb Lakes. The rocks underlying this area are of a different stratigraphic level than the rest of the grid so the nickel values are an indication of the change in geology.

A weak trend of copper is present from 7+00 E, 13+00N to 10+50E, 16+00N. This is along the slope of the major topographic break and may indicate the exposure of, or access to, a different geological unit caused by a structure responsible for the break.

Statistically high zinc values are seen all over the grid, with a concentration on the western side between 16+00N and 19+00N. Again, these values appear to be indicating a change in geology and not mineralization as this area is underlain by dacite/rhyolite volcanic rocks with minor sedimentary rocks, not the felsic volcanic/mudstone/siltstone/epiclastic rocks as occur under the As anomaly.

Eight of the 1996 samples were taken as infill around the 1995 anomalous result of 90 ppb Au. These did not return any significant results so the 1995 sample can be confirmed as an erratic point anomaly.

Interpretation and Recommendations

The Fred 15 area has Au-Ag mineralization in massive to brecciated rhyolites. The mineralization occurs in multiple horizons within the siltstone/mudstone dominated unit. The mineralization is exposed in small erosional windows through overlying rhyolite, dacite and andesite flows. The 1996 mapping and prospecting did not indicate any new mineralized horizons within any of the other stratigraphic units so. Thus, for the majority of the claims, the rock unit of highest potential is still buried.

Geophysics did not define a strong conductor within the property. It did outline weak linear anomalies, interpreted as fault structures, and a deep resistivity low which can not be correlated with any other data.

Alteration ranges from absent to very weak silicification. This may indicate that the mineralization is distal to volcanic centers. The absence of gossanous bluffs and altered dacitic rocks, characteristic of the footwall to the favourable horizon, may indicate that favourable stratigraphy occurs lower in the section and has not been removed by erosion.

Soil geochem is useful in indicating general stratigraphy but it has not helped in narrowing the search for mineralization. Evidence from the soil results and geological mapping are used to define a second unit of felsic volcanics.

Stratigraphic drilling is the only step left with which to advance the understanding of the geology of these claims. Multiple holes should be drilled to confirm the stratigraphy, locate the exact position of the mineralized horizons, and locate new mineralized horizons that may be associated with those seen on surface. The examination of unweathered mineralized and footwall rocks would enable assessment for the potential for massive sulphides on these claims.

Statement of Qualifications

I, Simon J. Haynes, of Box 397, Fonthill, Ontario, L0S 1E0, certify that:

I was commissioned as a consultant geologist by Canamera Geological Ltd., of 540-220 Cambie Street, Vancouver, B.C., to conduct a field geological program on claims described in the accompanying report.

I am a graduate of: Manchester University, Manchester, U.K., with a Bachelor of Science (Honours) in Geology, 1965; Carleton University, Ottawa, Ontario, with a Master of Science in Geology, 1969, and; Queen's University, Kingston, Ontario, with a Doctor of Philosophy in Geology, 1975.

I have practiced my profession continuously since graduation with a B.Sc.

I am a fellow of:

Geological Association of Canada
Society of Economic Geologists

I am a member of:

Canadian Institute of Mining and Metallurgy
Association of Geoscientists of Ontario

I am a recipient of the following professional society awards:

Honour Award, Geological Society of Cuba; Santiago, Cuba, 1994
Honour Award, Hunan Geological Society; Shuikoushan, China, 1988
Certificate of Appreciation, Northwest Mining Association, Spokane, Washington, U.S.A., 1986
Certificate of Appreciation, Philippine Institute of Mining and Metallurgy, Baguio, Philippines, 1986

This report is based on personal observations, field mapping, photogeology, and thin-section petrography during the period August 12th to August 29th and September 14, 1996.

I have no interest, either direct or indirect, with Tagish Joint Venture, Canamera Geological Ltd., or their partners, nor do I expect to acquire any interests.

I grant permission to Canamera Geological Ltd. to use this report.

October 10, 1996

Simon Haynes, Ph.D.

Statement of Qualifications

I, Dane A. Bridge, of 16 Massey Place SW, Calgary, Alberta, T2V 2G3, certify that:

I was commissioned as a contract geologist by Canamera Geological Ltd., 540-220 Cambie Street, Vancouver, BC, to conduct a field program on claims held by Tagish Resources and Alex H. Briden, as outlined in the accompanying report.

I am a graduate of the University of Manitoba, Winnipeg, Manitoba, with a Bachelor of Science (Honours) in Geology, 1969, and a Master of Science in Geology, 1972.

I have practiced my profession continuously since graduation.

I am a registered professional geologist in Alberta, APEGGA number 057688, and I am a member of:

Canadian Institute of Mining
Geological Association of Canada
Society of Economic Geologists

This report is based on personal observations and field mapping during the periods August 25th to August 27th and September 9th to September 14th, 1996.

I have no interest, either direct or indirect, in Tagish Resources or its partners, nor do I expect to acquire any interests.

I grant permission to Tagish Resources and Canamera Geological Ltd. to use this report.

November 20, 1996

A handwritten signature in black ink, appearing to read 'Dane Bridge', written over a horizontal line.

Dane Bridge, P. Geol.

Statement of Qualifications

I, Greg R. Burroughs, of 6B-4141 Oak Street, Vancouver, British Columbia, V6H 2N1, certify that:

I was commissioned as a geologist by Canamera Geological Ltd., 540-220 Cambie Street, Vancouver, BC, to conduct a field program on claims held by Tagish Resources and Alex H. Briden, as outlined in the accompanying report.

I am a graduate of the University of Saskatchewan, Saskatoon, Saskatchewan, with a Bachelor of Science (Advanced) in Geology, 1990.

I have practiced my profession continuously since graduation.

This report is based on personal observations and field mapping during the periods August 11 to September 14th, 1995.

I have no interest, either direct or indirect, in Tagish Resources or its partners, nor do I expect to acquire any interests.

I grant permission to Tagish Resources and Canamera Geological Ltd. to use this report.

November 20, 1996

Greg Burroughs

References

- Alldrick, D. and Britton, J., 1988: Geology and Mineral Deposits of the Sulphurets Area, BC, Ministry of Energy, Mines and Petroleum Resources, Open File Map 1988-4.
- Alldrick, D. and Britton, J., 1992: Unuk Area Geology, Ministry of Energy, Mines and Petroleum Resources, Open File Map 1992-22, Sheet 3 - Northeast Quadrant, scale 1:20 000.
- Alldrick, D., Britton, J., MacLean, M., Hancock, K., Fletcher, B. and Hiebert, S., 1990: Geology and Mineral Deposits of the Snippaker Area (104B/6E, 7W, 10W, 11E), BC Ministry of Energy, Mines and Petroleum Resources, Open File 1990-16.
- Alldrick, D., Britton, J., Webster, I. and Russel, C., 1989: Geology and Mineral Deposits of the Unuk Area, (104B/7E, 8W, 9W, 10E), BC Ministry of Energy, Mines and Petroleum Resources, Open File 1989-10.
- Anderson, R.G., 1989: A Stratigraphic, Plutonic and Structural Framework for the Iskut Map Area, Northwestern British Columbia; in current Research, Part E, Geological Survey of Canada, Paper 89-1E.
- Anderson, R.G., 1993: A Mesozoic Stratigraphic and Plutonic Framework for Northwestern Stikinia (Iskut River Area), Northwestern British Columbia, Canada; in G. Dunne and K. McDougall, (eds), Mesozoic Paleogeography of the Western United States II: Society of Economic Palentologists and Mineralogists, Pacific Section.
- Anderson, R.G and Bevier, M.L., 1990: A Note in Mesozoic and Tertiary K-Ar Geochronology of Plutonic Suites, Iskut River Map Area, Northwestern B.C., in Current research, Part E, Geological Survey of Canada, Paper 90-10E, p. 141-147.
- Anderson, R. and Thorkelson, D., 1990: Mesozoic Stratigraphy and Setting for Some Mineral Deposits in Iskut River Map Area, Northwestern BC, in Current Research, Part E, Geological Survey of Canada, Paper 90-1E.
- Bartsch, R.D., 1993a: A Rhyolite Flow Dome in the Upper Hazelton Group, Eskay Creek Area (104B/9,10); BC Ministry of Energy Mines and Petroleum Resources, Geological Fieldwork, 1992, Paper 1993-1, p. 331-334.

- Bartsch, R.D., 1993b: Lithostratigraphy of the Eskay Creek area, Northwestern British Columbia, Canada; unpub. M.Sc. thesis, University of British Columbia, Vancouver, BC, 178 p.
- Blackwell, J., 1990: Geology of the Eskay Creek #21 Deposits, Mineral Deposits Division, Geological Association of Canada, The Gangue, Number 31, p. 1-4.
- Bridge, D. and Burroughs, G., 1995, Report of 1995 Geological and Geochemical Exploration Work Done on Aftom, Calvin, Dup, Fred, Mojo, Noot, and Pmac Mineral Claims, BC, Volumes 1 and 2 (AR 24155).
- Britten, J., Blackwell, J. and Schroeter, T., 1990: #21 Zone Deposits, Eskay Creek, Northwestern BC, Ministry of Energy, Mines and Petroleum Resources, Exploration in BC, 1989, p. 197-223.
- Brown, D.A., Logan, J.M., Gunning, M.H., Orchard, M.J., and Bamber, W.E., 1991: Stratigraphic Evolution of the Paleozoic Stikine Assemblage in the Stikine and Iskut Rivers Area, Northwestern British Columbia, Canadian Journal of Earth Sciences, v. 28, p. 958-972.
- Chapman, J. and Raven, W., 1991: Assessment Report on Gigi Resources Ltd.'s and Tradewind Resources Ltd.'s Upper Unuk River Project, Unuk River Area, BC (AR 20858).
- Chapman, J., Raven, W., Vanwermskerken, M. and Lebel, J., 1990: Summary Report on the Airborne and Ground Geophysics, Linecutting, Geology and Geochemistry on the GNC Property for Calpine Resources Inc., Iskut-Sulphurets Area, BC.
- Dawson, G. and Harrison, D., 1990: Geological Report on the Aftom 9 Claim, Skeena Mining Division, BC (AR 21792).
- Ettlinger, A., 1991: Eskay Creek 21 Zone, in MDRU Metallogenesis of the Iskut River Area, Northwestern BC, MDRU Annual Technical Report Year 1, University of British Columbia, Vancouver, BC.
- Evenchick, C.A., 1991a: Structural Relationships on the Skeena Fold Belt on the West Side of the Bowser Basin, Canadian Journal of Earth Sciences, v. 28, p.973-983.

- Evenchick, C.A., 1991b: Jurassic Stratigraphy of East Telegraph Creek and West Spatsizi Map Areas, British Columbia, in Current Research, Part A, Geological Survey of Canada, Paper 91-A, p. 155-162.
- Gabrielse, H., Monger, J.W.H., Templeman-Kluit, D.J. and Woodsworth, G.J., 1991: Part C. Intermontane Belt; in Structural Styles, Chapter 17 in Geology of the Cordilleran Orogen in Canada, H. Gabrielse and C.J. Yorath (ed.); Geological Survey of Canada, Geology of Canada, no. 4, p. 591-603.
- Ghosh, D., 1993: U-Pb Geochronology of the Iskut River Project MDRU Iskut River Metallogphy Project, Annual Technical Review, Year 3, University of British Columbia, Vancouver, BC.
- Green, G.M., 1991: Detailed Sedimentology of the Bowser Lake Group, Northern Bowser Basin, British Columbia, in Current Research, Part A, Geological Survey of Canada, Paper 91-1A, p. 187-195.
- Greenwood, H.J., Woodsworth, G.J., Read, P.B., Ghent, E.D., and Evenchick, C.A., 1991: Metamorphism, Chapter 16 in Geology of the Cordilleran Orogen in Canada, H. Gabrielse and C.J. Yorath (ed.); Geological Survey of Canada, Geology of Canada. no. 4. p. 533-570.
- Greig, C.J., 1991: Stratigraphic and Structural Relations along the West-Central Margin of the Bowser Basin, Oweege and Kinskuch Areas, Northwestern British Columbia, in Current Research, Part A, Geological Survey of Canada, Paper 91-1A, p. 197-205.
- Greig, C.J., 1992: Fieldwork in the Oweege and Snowslide Ranges and Kinskuch Lake Area, Northwestern British Columbia, in Current Research, Part A, Geological Survey of Canada, Paper 92-1A, p. 145-155.
- Grove, E., 1986: Geology and Mineral Deposits of the Unuk River - Salmon River - Anyox Area, BC. Ministry of Energy, Mines and Petroleum Resources, Bulletin 63, 152 p.
- Grunenberg, P., 1993a: Geological, Geochemical and Geophysical Report on the Aftom Group Claims, Skeena Mining Division, BC (AR 23152).

- Grunenberg, P., 1993b: Geophysical Report on the Aftom 20 Claim, Skeena Mining Division, BC (AR 23157).
- Grunenberg, P., 1993c: Geological and Geophysical Report on the Dup Group Claims, Skeena Mining Division, BC (AR 23158).
- Haynes, S.J., 1987: Classification of Quartz Veins in Turbidite-Hosted Gold Deposits, Greenschist Facies, Eastern Nova Scotia, CIM Bulletin, v. 80, No. 898, p. 37-51.
- Henderson, J., Kirkham, R., Henderson, M., Payne, J., Wright, T. and Wright, R., 1992: Stratigraphy and Structure of the Sulphurets Area, BC, (104B/8 and 9); in Current Research, Part A, Geological Survey of Canada, Paper 92-1A.
- Hicks, K. and Metcalfe, P., 1991: Geological Report on the Aftom 5, 6, 10, 11, 13 and 20 Claims, Part 1 of 2, BC (AR 21918).
- Hopper, D., 1989a: Assessment Report on Skeena Mining Division CRY #1, Prospecting, Rock Sampling and Geochemical Sampling, BC (AR 19291).
- Hopper, D., 1989b: Assessment, Prospecting, Rock Sampling Report on the Fred 16 and Dup 8 Claims, Skeena Mining Division, BC (AR 19347).
- Idziszek, C., Blackwell, J., Fenlon, J., McArthur, G. and Mallo, D., 1990: The Eskay Creek Discovery, Mining Magazine, March, 1990, p. 172-173.
- Konkin, K., 1989: Assessment Report on Corey Claim Group, Stewart, BC.
- Lewis, P., 1992: Structural Evolution of the Iskut River Area: Preliminary Results, in Mineral Deposits Research Unit, Metallogeny of the Iskut River Area, BC, Annual Technical Report Year 2, University of British Columbia, Vancouver, BC
- Lewis, P., 1993: Stratigraphic and Structural Setting of the Iskut River Area: Preliminary results, Annual Technical Report, Year 3, MDRU. Metallogeny of the Iskut River Area, BC.
- Lewis, P., 1995: Field Report, Iskut River Project, July 9-13, 1995, for Canamera Geological Ltd., 11 p.

- Lowe, C., Seemann, D., and Evenchick, C.A., 1992: A Preliminary Investigation of Potential Field Data from North-Central British Columbia, in Current Research, Part A, Geological Survey of Canada, Paper 92-1A, p. 85-93.
- Macdonald, A., van der Heyden, P., Lefebure, D. and Alldrick, D., 1992: Geochronology of the Iskut River Area, An update, in Geological Fieldwork 1991, BC Ministry of Energy, Mines and Petroleum Resources, Paper 1992-1, p. 495-501.
- Mallo, D. and Dvorak, Z., 1989: Assessment Report on the VR Property Airborne Geophysical Program, VR 4, VR 6 and CCM 1-3 Claims, BC (AR 18992).
- McClelland, W.C., 1992: Permian and Older Rocks of the Southwestern Iskut River Map Area, Northwestern British Columbia, in Current Research, Part A, Geological Survey of Canada, Paper 92-1A, p. 303-307.
- Monger, J.W.H., Wheeler, J.O., Tipper, H.W., Gabrielse, H., Harms, T., Struik, L.C., Campbell, R.B., Dodds, C.J., Gebrels, G.E., and O'Brien, J., 1991: Part B. Cordilleran Terranes; in Upper Devonian to Middle Jurassic Assemblages, Chapter 8 of Geology of the Cordilleran Orogen in Canada, H. Gabrielse and C.J. Yorath (ed.); Geological Survey of Canada, Geology of Canada, no. 4, p. 281-327.
- Nadaraju, G., 1993: Triassic-Jurassic Biochronology of the Eastern Iskut River Map Area, Northwestern BC, unpub. M.Sc. thesis, Department of Geological Sciences, University of British Columbia, Vancouver, BC, 268 p.
- Read, P.B., Woodsworth, G.J., Greenwood, H.J., Ghent, E.D., and Evenchick, C.A., 1991: Metamorphic Map of the Canadian Cordillera, Geological Survey of Canada, Map 1714A, scale 1:2 000 000.
- Ricketts, B.D. and Evenchick, C.A., 1991: Analysis of the Middle to Upper Jurassic Bowser Basin, Northern British Columbia, in Current Research, Part A, Geological Survey of Canada, Paper 91-1a, p. 65-73.
- Roth, T., 1993a: Surface Geology of the 21 Zone, Eskay Creek, BC - in Geological Fieldwork 1992, Ministry of Energy, Mines and Petroleum Resources, Paper 1993-1, p. 325-333.

- Roth, T., 1993b: The 21A Zone, Eskay Creek, Northwestern BC, unpub. M. Sc. thesis, University of British Columbia, Vancouver, BC.
- Roth, T. and Godwin, C., 1992: Preliminary Geology of the 21A Zone, Eskay Creek, BC, Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork, 1991, Paper 1992-1, p. 529-533.
- Schofield, S. and Hanson, G., 1922: Geology and Mineral Deposits of Salmon River District, BC, Geological Survey of Canada, Memoir 132, 81 p.
- Tipper, H. and Richards, T., 1976: Jurassic Stratigraphy and History of North Central BC, Geological Survey of Canada, Bulletin 270, 73 p.
- Verzosa, R., 1990: 1990 Diamond Drilling Program on the North Coulter Property, BC (AR 20659).
- Walker, R., 1991, Geological and Geochemical Summary Report on the Story 3 and 4 Claim Group, BC (AR 20907).
- Wheeler, J.O., Brookfield, A.J., Gabrielse, H., Monger, J.W.H., Tipper, H.W., and Woodsworth, G.J. (comp.) 1991: Terrane Map of the Canadian Cordillera, Geological Survey of Canada, Map 1713A, scale 1: 2 000 000.
- Williams, H. and Birney, A., 1979: Volcanology, Freeman, Cooper and Company, 397 p.
- Winchester, J. and Floyd, P., 1977, Geochemical Discrimination of Different Magma Series and Their Differentiation Products Using Immobile Elements, Chemical Geology, v. 20, p. 325-343.
- Yorath, C.J., 1991: Upper Jurassic to Paleogene Assemblages, Chapter 9 in Geology of the Cordilleran Orogen in Canada, H. Gabrielse and C.J. Yorath (ed.); Geological Survey of Canada, Geology of Canada, no. 4, p. 329-371.

Appendix 1

UTEM SURVEY

ON THE

FRED 15 CREEK PROJECT ISKUT AREA, B.C., SNIPPAKER CREEK

LIARD MINING DIVISION B.C., N.T.S. 104B/10E

FOR

CANAMERA GEOLOGICAL LTD..

SURVEY BY

SJ GEOPHYSICS LTD.

AND

LAMONTAGNE GEOPHYSICS LTD.

November 1996

REPORT BY

Syd Visser

S.J.V. Consultants Ltd.

TABLE OF CONTENTS

INTRODUCTION	1
DESCRIPTION OF UTEM SYSTEM.....	1
FIELD WORK.....	2
DATA PRESENTATION.....	3
DISCUSSION.....	4
APPENDIX I.....	5
STATEMENT OF QUALIFICATIONS	5
APPENDIX II	6
LEGEND.....	6
APPENDIX III.....	7
A TIME DOMAIN EM SYSTEM MEASURING	7
THE STEP RESPONSE OF THE GROUND.....	7
APPENDIX IV	0
DATA SECTIONS	0

INTRODUCTION

A large loop time domain electromagnetic (UTEM-3) survey was completed by SJ Geophysics Ltd. and Lamontagne Geophysics Ltd. for Canamera Geological Ltd. on the Fred 15 Creek Project during the period of September 3 to September 19, 1996. The Fred 15 Creek Project is located approximately 300 Km north of Smithers near Snippaker Creek and the border of the Liard and Skeena M.D., of B.C. (N.T.S. 104B/10e). Access is via highway 37, north of Smithers, to Bob Quinn Lake and then by the private Eskay Creek Mine road to the camp. Access from the camp to the property is via helicopter

The purposes of the survey were to search for flat lying conductive massive sulphides and to aid in the mapping of local geology.

This report is meant to be an addendum to a main property report by Canamera Geological Ltd. which will describe local geology, previous work and provide location maps.

DESCRIPTION OF UTEM SYSTEM

UTEM is an acronym for "University of Toronto ElectroMagnetometer". The system was developed by Dr. Y. Lamontagne (1975) while he was a graduate student of the university.

The following is a short description of the UTEM system used in the field. A paper (A time-domain EM system measuring the step response of the ground) by G.F. West, J.C. Macnae and Y. Lamontagne, giving a more complete description with an overview of interpretations is located in Appendix III.

The field procedure involves laying out a large loop, which can vary in size from less than 100M X 100M to more than 2Km X 2Km, of single strand insulated wire and energizing it with current from a transmitter which is powered by a 2.2 kW motor generator. During a surface survey the lines are generally oriented perpendicular to one side of the loop and surveying can be performed both inside and outside the loop. For a borehole survey the sensor coil is placed down the borehole to measure the axial component of the electromagnetic field from a minimum of 2 separate loops.

The transmitter loop is energized with a precise triangular current waveform at a carefully controlled frequency (30.97 Hz for this survey). The receiver system

page 1

includes a sensor coil and backpack portable receiver module, which has a digital recording facility. The time synchronization between transmitter and receiver is achieved through quartz crystal clocks in both units which are accurate to about one second in 50 years.

The receiver sensor coil measures the vertical horizontal, or axial magnetic, component of the electromagnetic field and responds to its time derivative. Since the transmitter current waveform is triangular, the receiver coil will sense a perfect square wave in the absence of geologic conductors. Deviations from a perfect square wave are caused by electrical conductors which may be geologic or cultural in origin. The receiver stacks any pre-set number of cycles in order to increase the signal to noise ratio.

The UTEM receiver gathers and records 10 channels of data at each station occupied. The higher number channels (7-8-9-10) correspond to short time or high frequency while the lower number channels (1-2-3) correspond to long time or low frequency. Poor or weak conductors will respond on channels 10, 9, 8, 7 and 6. Progressively better conductors will give responses on progressively lower number channels as well. For example, massive, highly conducting sulfides or graphite will produce a response on all ten channels.

The Borehole system consists of a normal surface UTEM-3 transmitter and receives along with special receiver coil (1 1/4" in diameter). The coil is connected to the receiver through a controller and fibre optic cable.

FIELD WORK

John Ashenurst (Technologist) and David Reip, (helper from Whitehorse) both with SJ Geophysics Ltd., and , the equipment were mobilized from Whitehorse by truck on September 3, 1996. John and the equipment returned to Vancouver on September 19, 1996. The survey area was accessed daily by helicopter from accommodations on the Eskay Creek Mine road. The field parameters and local geology were discussed with the Canamera Geologist before commencing the survey and during the survey period.

Approximately 14 Km, using a station spacing of 25m, were surveyed from 1 loop in a period of 9 data collection days 2.5 loop laying days, 1 standby day and 3 mobilization days.

The grid is comprised of cut and surveyed lines in fairly rough terrain, therefore, channel 1 should be accurate if the location of the loop was recorded accurately. The survey data was supplied by the client and applied to produce a topographic map and aid in reduction of the data.

DATA PRESENTATION

The results of the UTEM survey are presented on 42 data sections (Appendix IV) and one compilation map, Plate G1.

Legends for the UTEM data sections are also attached (Appendix II).

In order to reduce the field data, the theoretical primary field of the loop must be computed at each station. The normalization of the data is as follows:

a) For Channel 1:

$$\% \text{ Ch.1 anomaly} = (\text{Ch.1} - \text{PC}) \times 100 / \text{PT}$$

Where:

PC is the calculated primary field in the direction of the component from the loop at the occupied station

Ch.1 is the observed amplitude of Channel 1

PT is the calculated total field

b) For remaining channels (n = 2 to 9)

$$\% \text{ Ch.n anomaly} = (\text{Ch.n} - \text{Ch.1}) \times 100 / \text{Ni}$$

where:

Ch.n is the observed amplitude of Channel n (2 to 9)

N is Ch1 for Ch1 normalized

N is PT for primary field normalized

I is the data station for continuous normalized (each reading normalized by different primary field)

I is the station below the arrow on the data sections for point normalized (each reading normalized by the same primary field)

Subtracting channel 1 (Ch.1) from the remaining channels eliminates the topographic errors from all the data except channel 1.

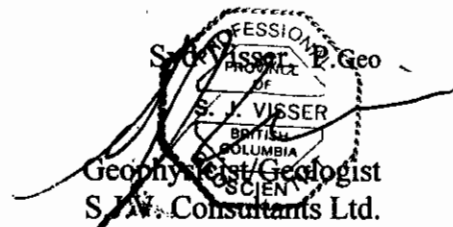
If there is a response in channel 1 from a conductor, this value must be added to do a proper conductivity determination from the decay curves. Channel 1 should not be subtracted indiscriminately.

The data from each line is plotted on at least 2 separate sections consisting of a continuous normalized section and a point normalized section. Additional point normalized data sections were produced where more than one conductor is present on the same line. Point normalization data is the absolute secondary field at a "gain setting" related to the normalization point. The data is usually point normalized over the central part of the crossover anomaly to aid in interpretation.

DISCUSSION

The survey which was conducted inside a large loop was designed to locate flat lying conductors at depth with a size smaller than the loop or with at least one edge within the loop. The loop location was largely determined by the topography. The survey indicated a structure striking across the survey area as shown on the compilation map G1. The rocks appear to be somewhat less resistive on the eastern edge of this structure.

The data indicates there is some deep-seated low resistivity feature. This low resistivity unit which is likely a sedimentary package is located between approximately 300m and 1000m. If it is of interest, it may be possible to do additional processing of this data to determine a more accurate depth to top and depth extent of this feature. The large size of the transmitter loop would make it difficult to locally invert the data.



APPENDIX I

STATEMENT OF QUALIFICATIONS

I, Syd J. Visser, of 11762 - 94th Avenue, Delta, British Columbia, hereby certify that,

- 1) I am a graduate from the University of British Columbia, 1981, where I obtained a B.Sc. (Hon.) Degree in Geology and Geophysics.
- 2) I am a graduate from Haileybury School of Mines, 1971.
- 3) I have been engaged in mining exploration since 1968.
- 4) I am a professional Geoscientist registered in British Columbia.

Syd J. Visser, B.Sc., P.Geo
Geophysicist/Geologist

APPENDIX II

Legend

UTEM SYSTEM MEAN DELAY TIME		
Channel Number	Delay Time(msec)	Symbol
1	12.8	
2	6.4	\
3	3.2	/
4	1.6	□
5	0.8	∩
6	0.4	△
7	0.2	∇
8	0.1	×
9	0.05	△
10	0.025	◇

Base Frequency = 31 Hz

APPENDIX III

A time domain EM system measuring the step response of the ground

A time-domain EM system measuring the step response of the ground

G. F. West*, J. C. Macnae*†, and Y. Lamontagne‡

ABSTRACT

A wide-band time-domain EM system, known as UTEM, which uses a large fixed transmitter and a moving receiver has been developed and used extensively in a variety of geologic environments. The essential characteristics that distinguish it from other systems are that its system function closely approximates a step-function response measurement and that it can measure both electric and magnetic fields. Measurement of step rather than impulse response simplifies interpretation of data amplitudes, and improves the detection of good conductors in the presence of poorer ones. Measurement of electric fields provides information about lateral conductivity contrasts somewhat similar to that obtained by the gradient array resistivity method.

INTRODUCTION

This article describes the design of the UTEM system and its development at the Geophysics Laboratory of the University of Toronto by Y. Lamontagne and G. F. West from 1971 to 1979. UTEM is a wideband, time-domain, ground EM system with a step-function system response. It was designed to try to achieve the sensitivity and interpretability necessary to handle problems of deep exploration, conductive environments, and a variety of terrain conditions, in an economically viable manner. As with most EM systems, effective exploration for massive sulfide ores was the principal objective. The method was conceived in 1971, and the first UTEM I instrument was operational in 1972. It was an analog electronic system, and was used in a number of surveys which have been described by Lamontagne (1975). An improved UTEM II which incorporated a digital recording system was then designed and constructed at the University of Toronto with financial aid from a consortium of mining companies. It was first used in 1976. To fall 1980, about 1000 line-km had been surveyed with the system from 144 loops in 35 areas. UTEM III, which is a microprocessor-controlled system with expanded capabilities, is now produced commercially by Lamontagne Geophysics Ltd. Some of the field results obtained using the UTEM II system have been described in Lamontagne et al. (1977, 1980), Macnae (1977, 1980, 1981), Lodha (1977), and Podolsky and Slankis (1979). Data from all

three UTEM systems are identical insofar as geophysical characteristics are concerned. The differences affect only data noise levels and operational convenience. Some of the noise rejection features of UTEM III are discussed by Macnae et al. (1984).

THE UTEM SYSTEM

Design philosophy

UTEM uses a large, fixed, horizontal transmitter loop as its source. The field of the loop is mapped in the quasi-static zone with the receiver system; the vertical component of the magnetic field is always measured, and in some circumstances the horizontal magnetic and electric field components may be measured as well (Figure 1). The size of the transmitter loop depends on the prospecting problem; loops may range from about 2 km x 1 km in resistive terrain to 300 m x 300 m in a conductive area. Lines are typically surveyed to a distance of 1.5 to 2 times the loop dimensions.

The large loop transmitter-field mapping receiver configuration was chosen in order to give the system the deepest possible exploration for orebody sized conductors, without sacrificing the ability to resolve shallower structures (depth < 50 m). This dictates a very large transmitter moment, and makes an extended source desirable. The virtue of an extended source is that the coupling between the source and a receiver or the source and a nearby conductive zone is not so many orders of magnitude larger than the coupling to a distant receiver or deep target as is the case with a confined source.

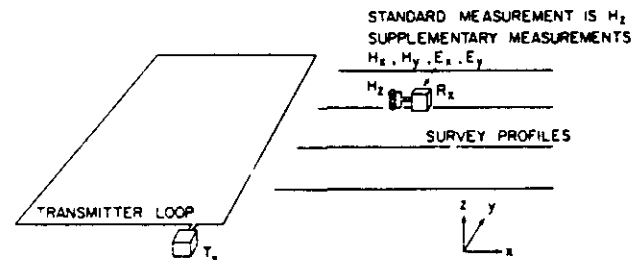


FIG. 1. Schematic layout of a UTEM survey.

Manuscript received by the Editor November 1983; revised manuscript received December 1983.

*Geophysics Lab., Dept. of Physics, Univ. of Toronto, Ont., Canada M5S 1A7.

‡Lamontagne Geophysics, 740 Spadina Ave., Toronto, Ont., Canada M5S 2J2.

© 1984 Society of Exploration Geophysicists. All rights reserved.

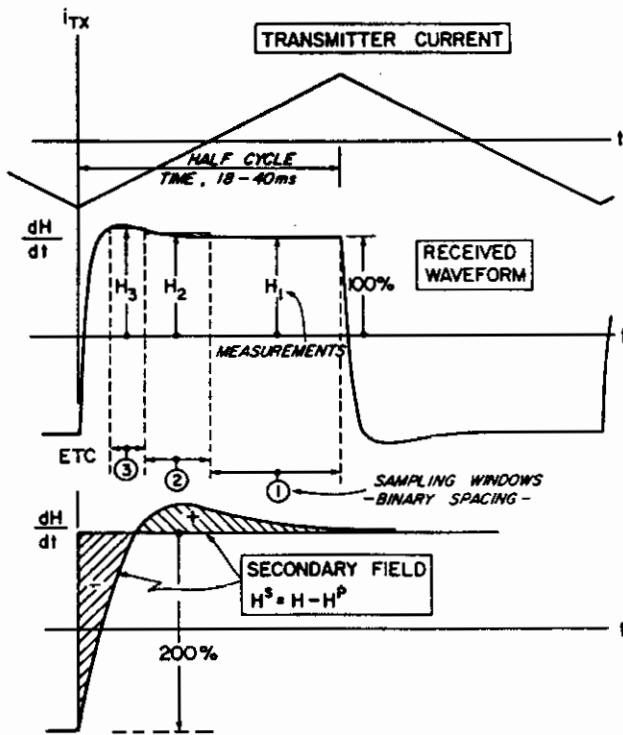


FIG. 2. Transmitted and received UTEM waveforms. Note that the measurement channels are numbered from the latest to the earliest. Sampling is repeated, with due regard to sign, in every half-cycle.

Given a large transmitter and a large T_x - R_x separation, it is inevitable that induction in extensive conductive overburden and in large formational conductors will contribute more to the response than with a small scale system. Also, as the separation becomes larger it becomes increasingly likely that the system will be responding to several nearby conductors at once. However, a fixed transmitter-moving receiver system offers a basis for separating the signal contributions from the various conductors and resolving the geometry of deep-seated conductors. At any time instant, the magnetic field of the current system induced in the ground is a potential field (within the quasi-static zone), and if it is mapped on a profile or over a surface, there is a firm theoretical basis for separating it into parts and estimating the current systems which caused it. When the transmitter and hence the eddy current system move for each observation, it is more difficult to find a theoretical basis for stripping of responses into component parts.

There are negative aspects to using a fixed transmitter method. In addition to the aforementioned enhancement of anomalies due to formational conductors, the transmitter can be positioned badly for induction in small plate-like conductors, and a large good conductor can screen a smaller, shorter time-constant conductor which lies behind it. For these reasons it may be desirable to have survey coverage from more than one transmitter location.

The UTEM II transmitter passes a low-frequency current of precise triangular waveform through the transmitter loop. The magnetic field is sensed with a coil, which responds to the time

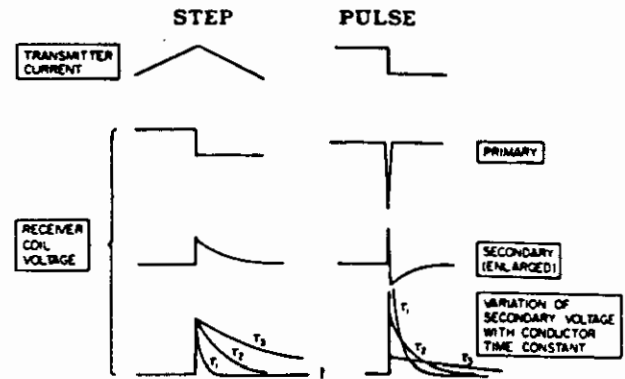


FIG. 3. Comparison of transient signals in step and pulse type systems.

derivative of the local magnetic field, so in "free space" a precise square-wave voltage would be induced in the receiver. In the presence of conductors the waveform is substantially distorted. The UTEM receiver measures this distortion by determining amplitudes at 10 delay times (actually, averages over time windows) which are spaced in a binary geometric progression between the waveform transitions. The sample scheme is shown in Figure 2. Note that the UTEM channel numbers are conventionally numbered in reverse order of time. This is because the latest time measurement often serves as a reference to which the other measurements are compared, whereas the number of earlier time measurements which can be made accurately may change if base period or instrument bandwidth is altered. The base frequency of the system is selectable, usually about 30 or 15 Hz (25 or 12.5 Hz in countries with 50 Hz power). A common practice is to set the base frequency (adjustable in 0.1 percent steps) about 0.5 Hz from a subharmonic of the power line in order that power line interference can be detected by slow beating in the data. The base frequency is usually set low enough that all ground response has nearly vanished by the end of the half-cycle. When this is the case, the UTEM system determines the step response of the ground in the time range $25\mu\text{s}$ to 12.8 ms (30 Hz base frequency).

Time-domain systems

Time-domain systems have some advantage over frequency-domain systems in that simultaneous measurement is easier to achieve over the whole spectrum and, at the same time, it is possible to check the phase synchronization of the transmitter and receiver time bases. Most time-domain systems employ an on-off type of transmitter current and confine all measurements to the off period, as this automatically separates the secondary from the primary field. However, when a coil is used as a sensor, the time derivative of the signal is observed. Thus, if the transmitter loop is energized with a step current, it is the impulse response of the ground which is observed.

When prospecting for conductive mineral deposits, it is generally more desirable for interpretation purposes to observe the step response than any other time response. The reason for this lies in the characteristics of eddy current decay. For the step

time. A small component of response appears to have persisted to Ch 1 and, for quantitative analysis, it should be remembered that the data reduction process will have caused subtraction of this amount from profiles of Ch 2-Ch n . On the early-time channels, the migration of crossover location from one channel to another indicates that the secondary current flow at these times is not fixed in geometry, a characteristic which is indicative of an extensive conductor (here extensive overburden) rather than a localized conductor such as that responsible for the late time crossovers.

Since at any delay time, the secondary field is a potential field, interpretation of geometrically fixed current systems is best performed using absolute secondary fields normalized by the primary field intensity at a single point rather than continuously along the profile. Although only one case presented in this paper has this absolute or "point normalization," recent routine field practice is to point normalize all survey profiles exhibiting discrete anomalies, in order to simplify interpretation.

Horizontal magnetic field measurements may be made by

reorienting the receiver coil. Normalization is done using the vertical primary magnetic field (calculated or vertical Ch 1 measurement). Unfortunately, horizontal field measurements frequently suffer a somewhat higher noise level than vertical fields, due to the predominantly horizontal orientation of spheric interference.

The electric field waveform is, like the voltage from the coil sensor, a square wave if the ground is very resistive. It is distorted in much the same way as the coil signal when the ground is conductive. Electric field observations are usually plotted as E_i/E_T^p —the observed channel voltage between the electrodes divided by the maximum expected late time voltage between electrodes at the observation point in any horizontal direction, i.e., $E_T^p = (E_x^2 + E_y^2)^{1/2}$. "Expected" here refers to the electric field produced by a loop on a laterally uniform, resistive half-space. This normalization facilitates intercomparison of x and y component data. The geologic noise level in electric field data is usually high, so plotting on expanded scales is rarely justified. All channel data are usually plotted on the same axes, as shown in Figure 5.

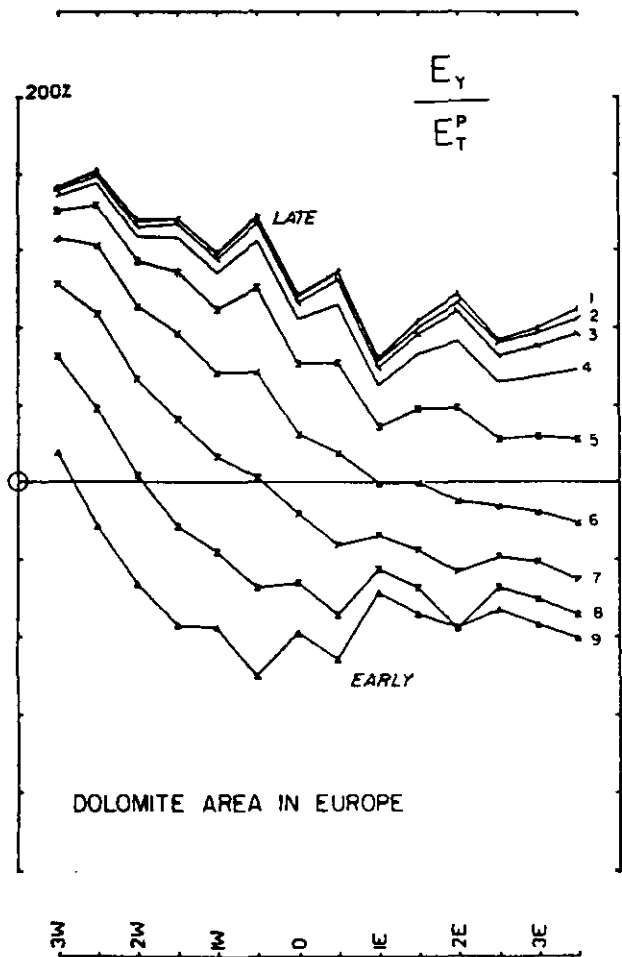


FIG. 5. Standard presentation of electric field data. The observed component is normalized to the total primary electric field of the transmitter loop.

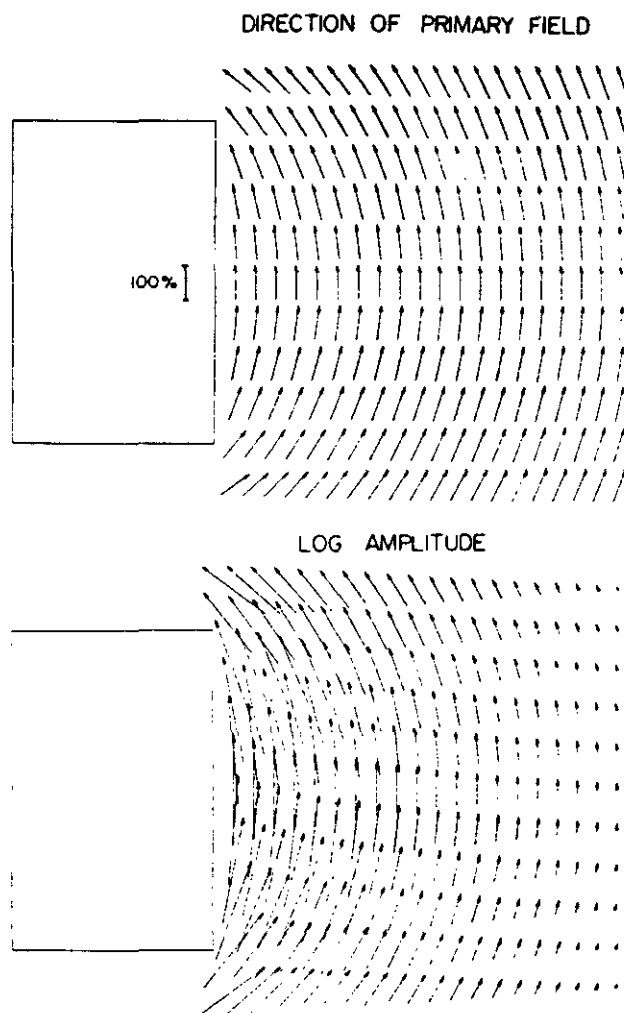


FIG. 6. Vector plots of late time electric field. (a) Direction information only. (b) Showing direction and intensity of the primary field.

the position of the main current concentrations. However, the UTEM receiver is a coil which is sensitive only to dH/dt , and thus to the rate of change of induced and transmitter loop current. Thus the moving pattern of crossovers is actually indicating outward migration of changes in the induced current pattern. Toward the end of each half-cycle, the induced current system at any point in the survey area tends to a constant value, as indicated by the electric field measurements, but this steady current is invisible to the coil receiver.

When interpreting UTEM magnetic field data, it can often be simpler to think of the data in terms of the magnetometer receiver, square-wave transmitter current (MSW) analogy. Because the analogy is *exact* for a linear process like EM induction, there is no approximation in using it. It is very convenient to think of the field measurements of secondary signal at any delay time as describing the Biot-Savart magnetic field of a changing and decaying (analogous) induced current system. However, when electric field data are being analyzed and compared with magnetic field (dH/dt) data, it is necessary to revert to the true picture of the induced currents (or take a time derivative of the E data) to maintain a consistent relationship. UTEM magnetic field data are usually symbolized as H_{st}^p (alphabetic subscript = component direction, superscript = p primary, s secondary, T total, numeric subscript = channel number) to accord with the magnetometer analogy; and in most discussions of simple induction, it is the time history of the *analogous* induced current which is described.

An important feature of layered earth H_z^s data is the early-time limit of continuously normalized H_z^s/H_z^p data. If the ground is sufficiently conductive near the surface, the early-time secondary field data at points remote from the transmitter loop will approach -200 percent; i.e., one finds that the voltage in the receiver coil has had insufficient time to change from the steady value attained at the end of the previous half-cycle (Figure 2). This situation may be pictured in the magnetometer-square wave current analogy as an induced current system forming near the surface of the ground under the transmitter loop such as prevents the total (analogous) magnetic field from entering into the ground anywhere except very close to the transmitter wire. The -200 percent anomaly thus represents response at the inductive limit.

Finite thin plate in free space

A convenient modeling method for thin finite plate conductors in free space is the integral equation solution of Annan (1974). Annan computed the best set of polynomial eigenpotentials of order 4, and used these to represent the induced current flow in the plate as a sum of 15 "eigencurrents." The solution for the eigencurrents themselves is quite complicated, but needs only to be done once for a plate of given width to length ratio. After that, any induced current system can be described in terms of 15 coefficients in the eigenpotential summation. The secondary field at a receiver can then be simply computed in terms of these induced eigencurrents. One great advantage of Annan's method is that each eigencurrent has a frequency or time-domain response identical to a simple loop circuit. Thus the solution for a broad frequency range or many time windows is very easy to calculate. Routines for simple, interactive application of Annan's algorithms to a number of EM systems have been programmed by Dyck (Dyck et al., 1980).

Examples of type curves generated with Annan's solution may be found in Lodha (1977) and Lamontagne et al. (1980). Figure 9 shows the results of a set of computed UTEM type curves for the geometry shown in Figure 10. Also shown in Figure 10 is the geometry of the primary magnetic field, which controls the nature of induction in the plate. For the zero dip case, the primary field is mostly perpendicular to the plate. The induction in the plate tends to cancel this field at early times, leading to a negative H_z anomaly directly over the plate. Positive shoulders on each side show the secondary magnetic field of the "forward (analogous) current" near the front edge of the plate nearest the loop and the "reverse current" near the rear edge. The normalization scheme used in plotting this data is to divide the total secondary field by the calculated primary field at the measuring point. It has the undesirable effect of making asymmetric a secondary anomaly that is symmetric in terms of absolute amplitude by increasing the relative amplitude away from the loop. In fact, the absolute secondary amplitude of the positive shoulder near the loop is usually larger than the one on the side away from the loop. As the dip of the plate is increased, the positive shoulder moves away, and by the time a 30-degree dip is reached the reverse crossover is off the end of the plotted line. From dips of 30 to 135 degrees, the anomaly maintains a basic shape in the form of a simple crossover. The amplitude

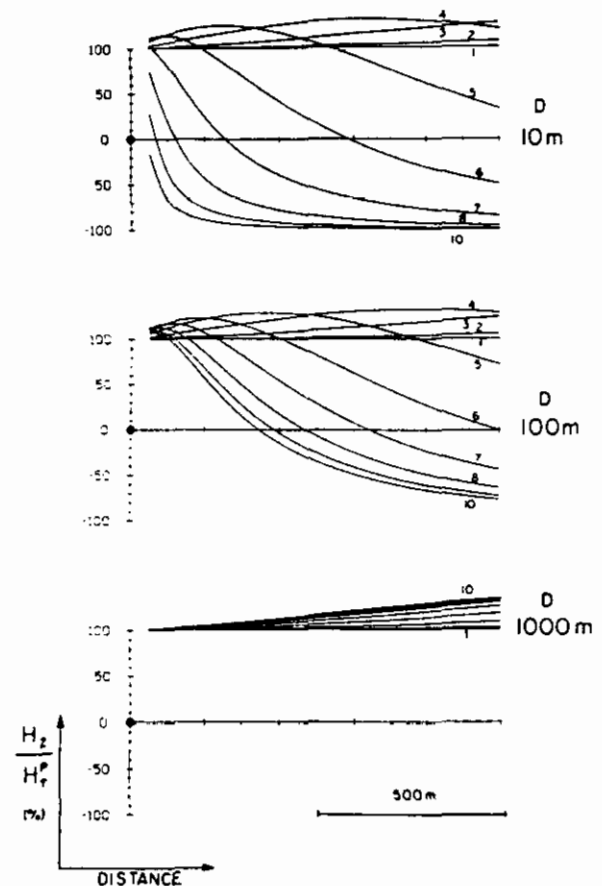


FIG. 8. H_z response of a thin horizontal sheet at various depths. The conductivity-thickness of the sheet is 2 S. The front of the transmitter loop is at the origin of coordinates.

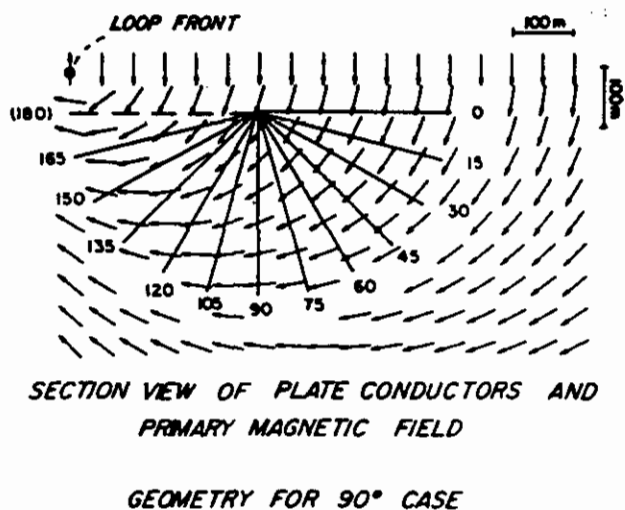


FIG. 10. Geometry and dimensions of the models shown in Figure 9. Also shown is the configuration of the primary field in the vicinity of the target conductor.

a resistive half-space is caused by charge on the plate as well as eddy currents flowing in it, and is affected by the earth-air interface. Annan's algorithm does not determine the charge distribution, so analog scale modeling methods were employed to produce type profiles. Figure 11 shows an example for a vertical plate. The longitudinal electric field is greatly reduced over the body at all times (i.e., there is a strong reduction in the late time limit). The dynamic (time-varying) part of the anomaly has the same time variation as the magnetic field but has a different geometrical pattern. The electric field is highly vulnerable to distortion by any conductivity contrast and the intensity of the static, late-limit anomaly over a conductor may therefore be reduced by any stratification between the conductor and the surface.

Other simple anomaly shapes

A set of simple schematic models is shown in Figure 12, for each of which the main features of the vertical magnetic field are sketched. The set of sketches was derived from quantitative scale model experiments by Lamontagne (1975). For the simple models illustrated where the host rock is completely non-conducting, the general anomaly shape for one body remains quite constant for the whole time range. The changes in anomaly from one channel to another are mostly in the amplitude and smoothness of the anomalies.

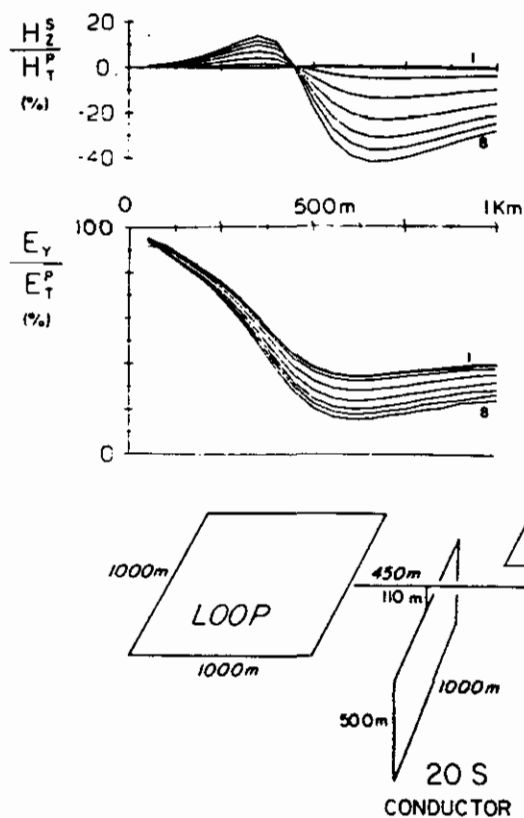


FIG. 11. Scale model UTEM secondary magnetic H_z^s and total electric E_y data over a vertical plate conductor.

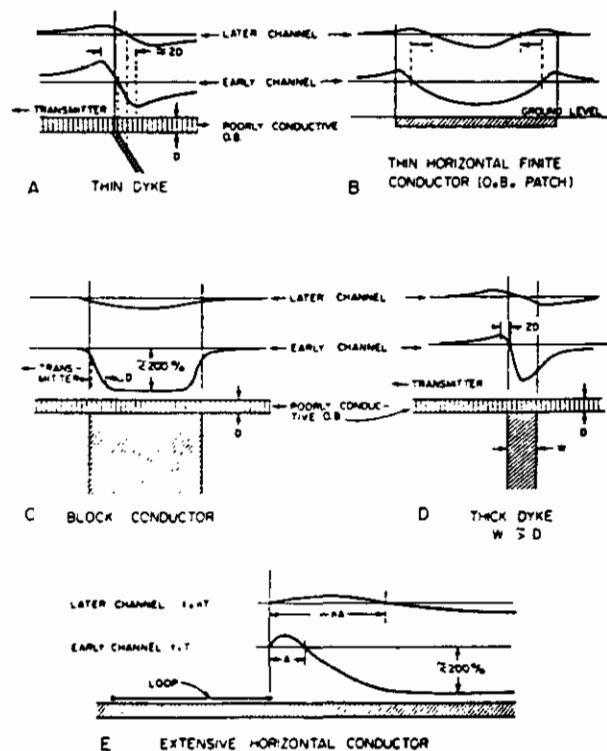


FIG. 12. The form of continuously normalized UTEM H_z^s anomalies over some simple shapes. All conductors are in free space.

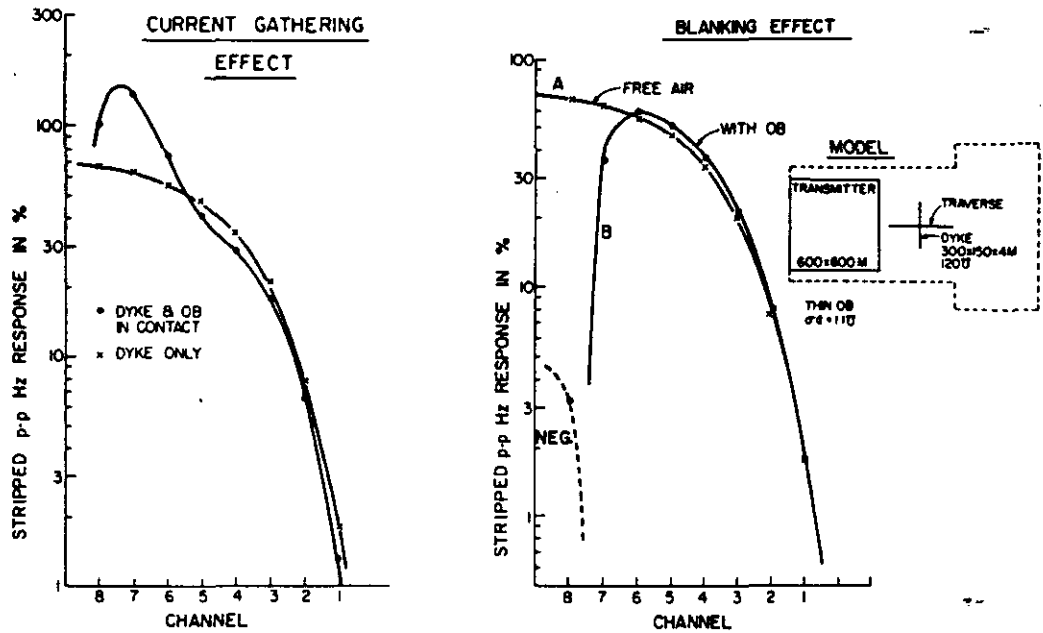


FIG. 15. Decay plots for the H_z^2 anomalies of Figure 14.

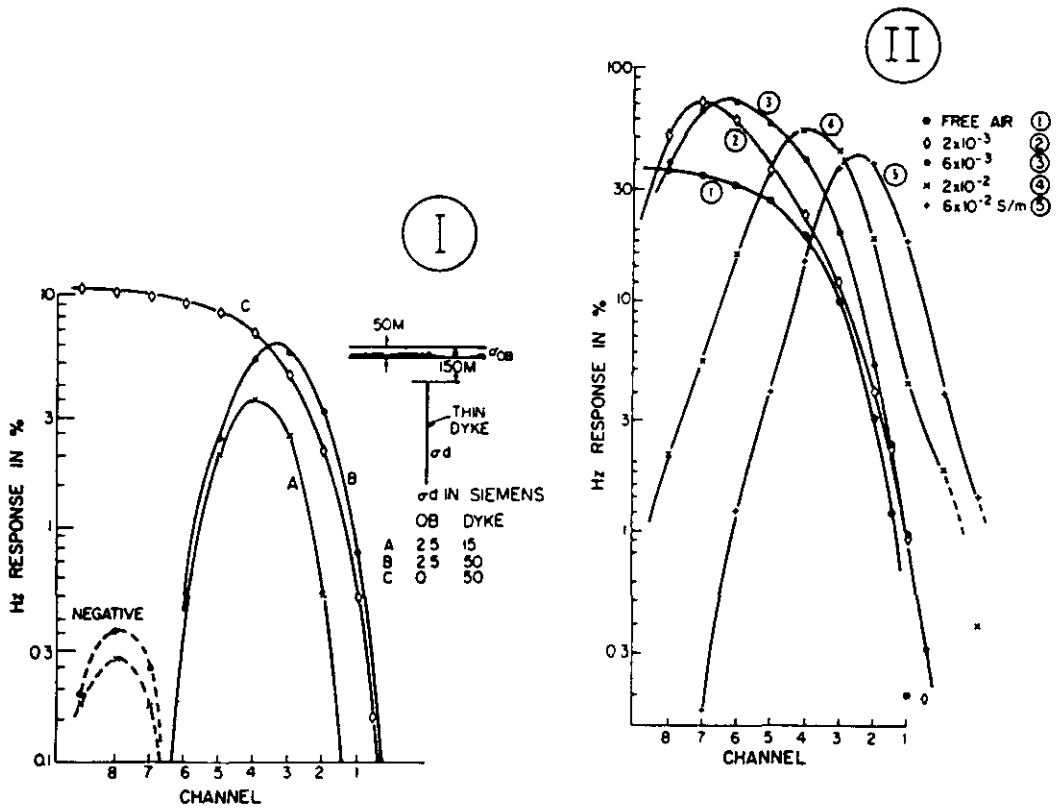


FIG. 16. Decay plots of H_z^2 anomalies over a thin dike (I) under a conductive overburden and (II) in a conductive half-space.

Host rock effects

Figure 16 II shows the time variation in response of a 60 S vertical plate located in a half-space. The results were calculated by Lamontagne (1975) by Fourier transformation of the frequency-domain numerical modeling of Lajoie and West (1976). At early times the response is reduced from the free-air response: this corresponds to blanking by the conductive region above the target. At later times the response is enhanced indicating that the regional (analogous) current in the host rock is being gathered into the plate at these times. For poorly conducting host rock, the response at late times is close enough to the free-space response that simple interpretation of the target using a plate in free-space model is valid. For the higher host conductivities (case 4, 5) this is no longer the case.

FIELD RESULTS

Milton, Ontario

This area was surveyed to demonstrate what data from a conductive, well-stratified earth looks like. The area is one where 650 m of flat-lying Paleozoic sediments overlie the Precambrian basement. The predominant member of the stratigraphy is a uniform and thick sequence of shale. Other beds are mostly resistive calcareous and sandstone formations. The survey area is covered by a mixed forest and marshy streams, with occasional outcrops. The top of the bedrock is a dolomite formation which is everywhere more than 20 m thick. Topographic relief is minor (< 10 m), with occasional rough spots near outcrop. Overburden is probably less than 10 m every-

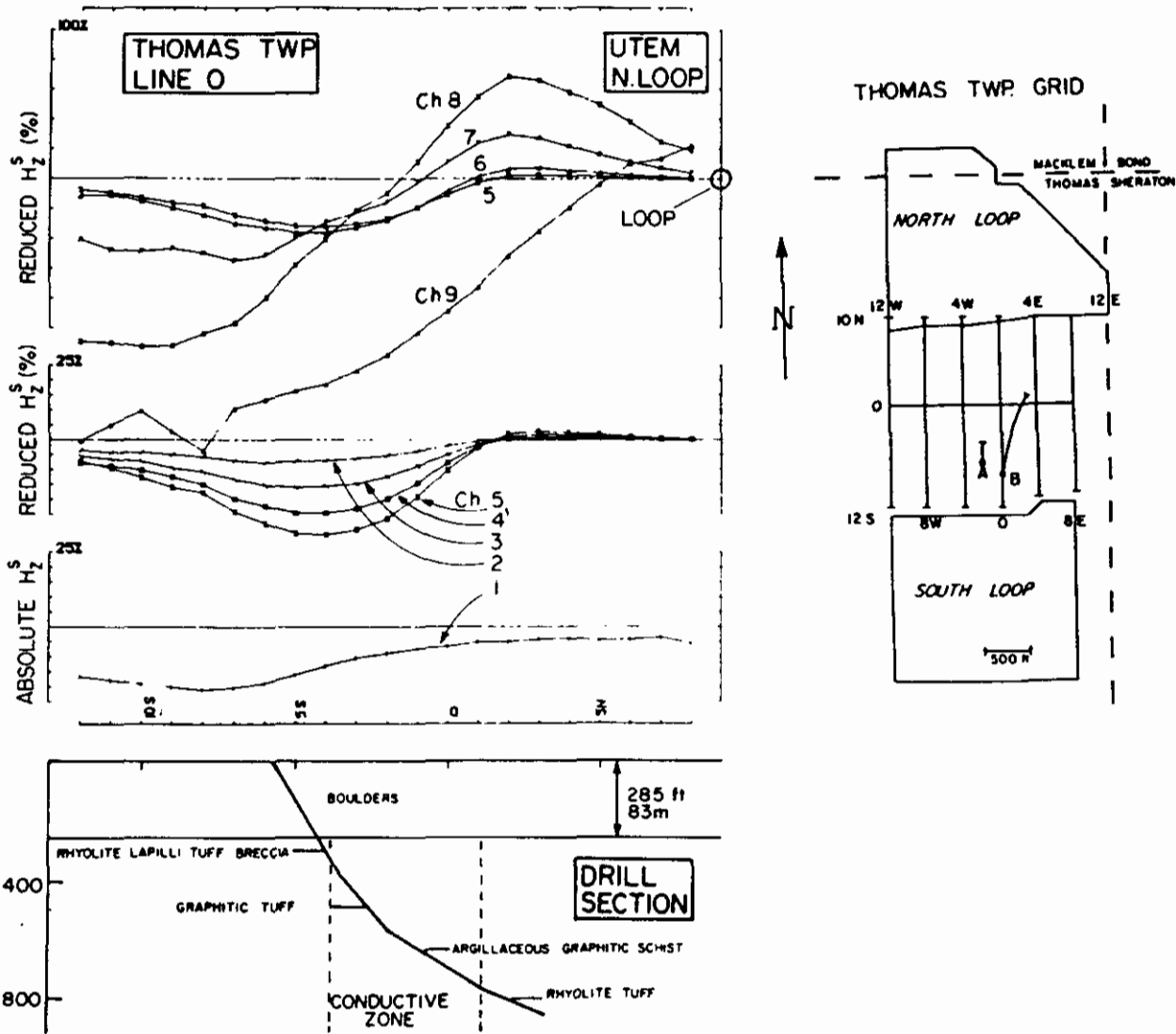


FIG. 18. A profile of H_2^s data from the north transmitter loop across the Thomas Twp test site. A map of the survey is included (different scale).

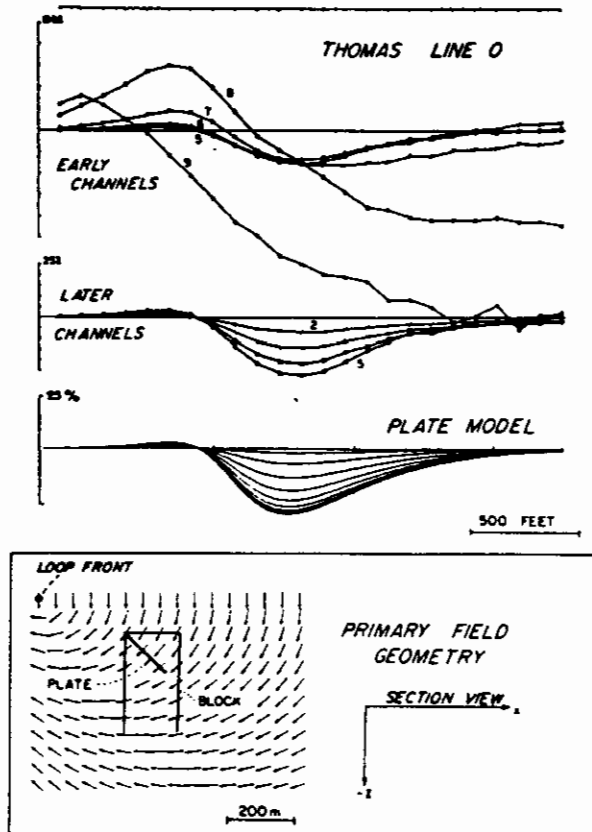


FIG. 20. Comparison of H_z data from the south transmitter loop with a free-space plate model. The configuration of the primary field is also shown.

500 μ s the response changes to an asymmetric negative anomaly which decays much more slowly than the crossover response. The early-time crossover response is a current gathering or channeling anomaly where the (analogous) anomalous current flows along the length of the zone, while the longer time constant response is a local induction anomaly, where induced currents flow in a vortex within the target conductor.

Figure 19 shows a map of all the late-time profiles. They clearly delineate the edge of the target body. Figure 20 shows how a rectangular plate model can be found which models the observed results from one transmitter loop quite accurately, but which has to be rotated in order to match the results from the other loop. The late-time induced (analogous) current system in the actual conductor appears to be a tightly defined normal current in the front upper (near-loop) edge of the conductor with a more diffuse, return current deep in the rear of the body. A survey with the transmitter loop located on the other side of the body was similarly fitted by a plate dipping away from that loop, indicating the conductor to be a thick zone in which currents can flow in a variety of directions.

Electric fields were measured at the Thomas site. The late time vector map is shown in Figure 21, along with a rough numerical model. The conductive zone shows very clearly, although its edge is ill defined. Figure 22 shows a profile of the longitudinal component of electric field over the body. The field

intensity is almost constant from channel 6 onward, and the main feature of the response is the aforementioned broad reduction in the field strength over the conductor. It is helpful, when looking at E field profiles, to imagine a plot on the same axes of the negative of the observed channel 1 response. This is the value the field starts from at the half-cycle transition. Even as early as 50 μ s (Ch 9), the electric field has made most of its polarity reversal. In fact, between the loop to the target body it has overshoot, while from the target body outwards it is changing relatively slowly. The time changes in E are actually very similar to those in H . There are two dominant decay times, a short one corresponding to the overburden and the channeling target response (Ch 8-6) and a long one corresponding to the local induction response (Ch 5-1). Also, these two E -field responses have a different geometrical form corresponding with the different forms of the magnetic anomalies. The scaled up version of the E data in Figure 22 shows the slowly decaying anomaly. Considerable noise is apparent in the data at this magnification.

Bedrock conductor beneath overburden

Figure 23 shows the measured secondary H_z fields at a site in Australia. The slow outward migration of the early-time channels and the -200 percent early-time limit away from the transmitter loop are characteristics of the response of a near-surface conductive weathered layer. This layer has a total conductance of about 4 S.

Around station 210W a more local superimposed crossover anomaly is evident which is fixed in location. This feature is evident over a great strike length. When the visually estimated overburden response is stripped from the anomaly and the peak-to-peak crossover response is plotted on a decay plot (Figure 26), the characteristics of early time blanking, time delay, and enhancement are clearly displayed. Corresponding to the model data of Figure 16, the early time blanking attenuates the local anomaly as the (analogous) magnetic field has not had time to penetrate the weathered layer. At intermediate times (Ch 5, 4) the response lies above a fitted free-space, half-plane conductor decay curve. This is partly an amplitude enhancement from current gathering and partly due to a small delay in time while the (analogous) magnetic field penetrates the near-surface conductor. It is not clear whether any of the L400S response can be identified as due to local induction. Nevertheless, the plotted induction curve for a half-plane in free space serves as a useful reference and establishes an upper limit on the conductance of the feature (7S in this case).

On two survey lines about 1 km away, the same local feature is observed, but the response has changed to one of longer time constant. As shown in Figure 24, a clear response persists through channels 2 and 1. These data are replotted with "point normalization" on Figure 25 to show the absolute secondary field. Absolute normalization preserves the true anomaly shape, but has the disadvantage of scaling up strongly those anomalies which lie near the transmitter. The stripped peak-to-peak response is plotted in decay form in Figure 26 and clearly shows the difference in time constant at the two locations.

The increase in time constant seen on line 600N is very significant, since little change is seen in the background response and only a lesser change in the blanking time. It indicates that the L600N late-time response is due to local induc-

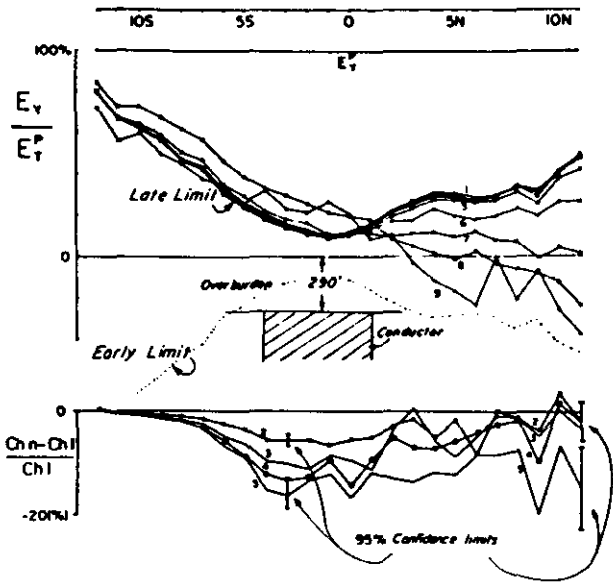


FIG. 22. Thomas Twp E_y data for line 0 from the south transmitter loop. The expanded scale data on the lower axes show that a very weak dynamic E field anomaly is associated with the main H_z^2 late time response (Ch 5-1).

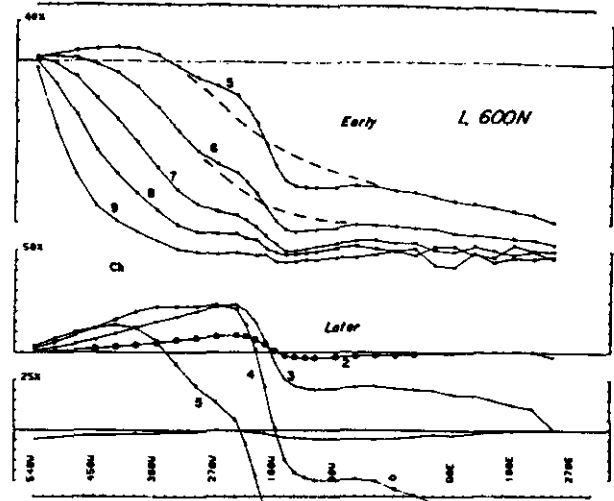


FIG. 24. H_z^2 data on line 600N 1 km away from the previous figure showing a time decay of the local anomaly lasting to much later times. Remeasurement of the profile at 13 Hz gave virtually identical profiles (shifted one channel) with no visible Ch 1 anomaly.

Natural Sciences and Engineering Research Council of Canada and the University of Toronto. All this assistance is gratefully acknowledged. We also thank an anonymous reviewer for a very careful, helpful review.

REFERENCES

Annan, A. P., The equivalent source method for electromagnetic scattering analysis and its geophysical application: Ph.D. thesis, Memorial Univ. of Newfoundland.

Boschart, R. A., 1964, Analytical interpretation of fixed source electromagnetic data: Doctoral thesis, Univ. of Delft.
 Dyck, A. V., Bloore, M., and Vallée, M. A., 1980, User manual for programs PLATE and SPHERE: Res. in Appl. Geophys. 14, Geophys. Lab. Dept. of Physics, Univ. of Toronto.
 Kaufman, A., 1978, Frequency and transient responses of electromagnetic fields created by currents in confined conductors: Geophysics, v. 43, p. 1002-1010.
 Lajoie, J., and West, G. F., 1976, The electromagnetic response of a conductive inhomogeneity in a layered earth: Geophysics, v. 41, p. 1133-1156.
 Lamontagne, Y., 1975, Applications of wide-band, time domain EM

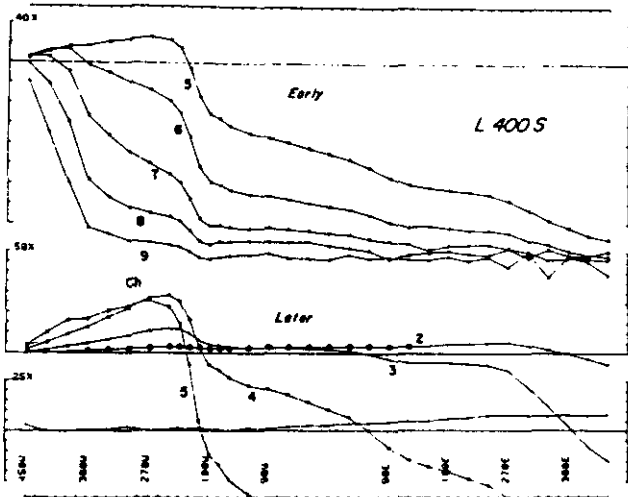


FIG. 23. H_z^2 data from New South Wales showing the migrating crossovers of the overburden near the loop and a local anomaly around station 210 W. (Survey frequency 26 Hz.)

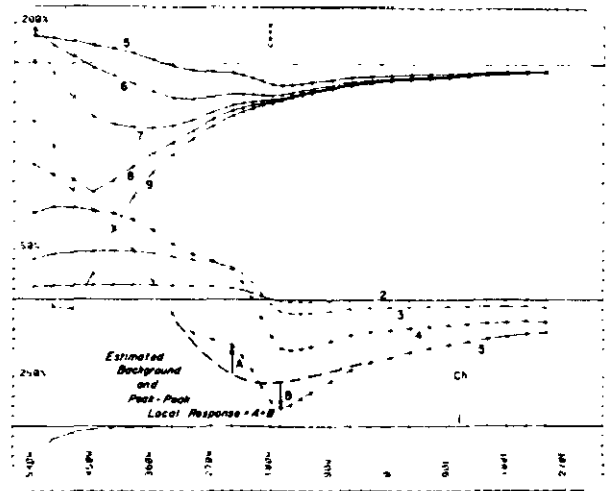
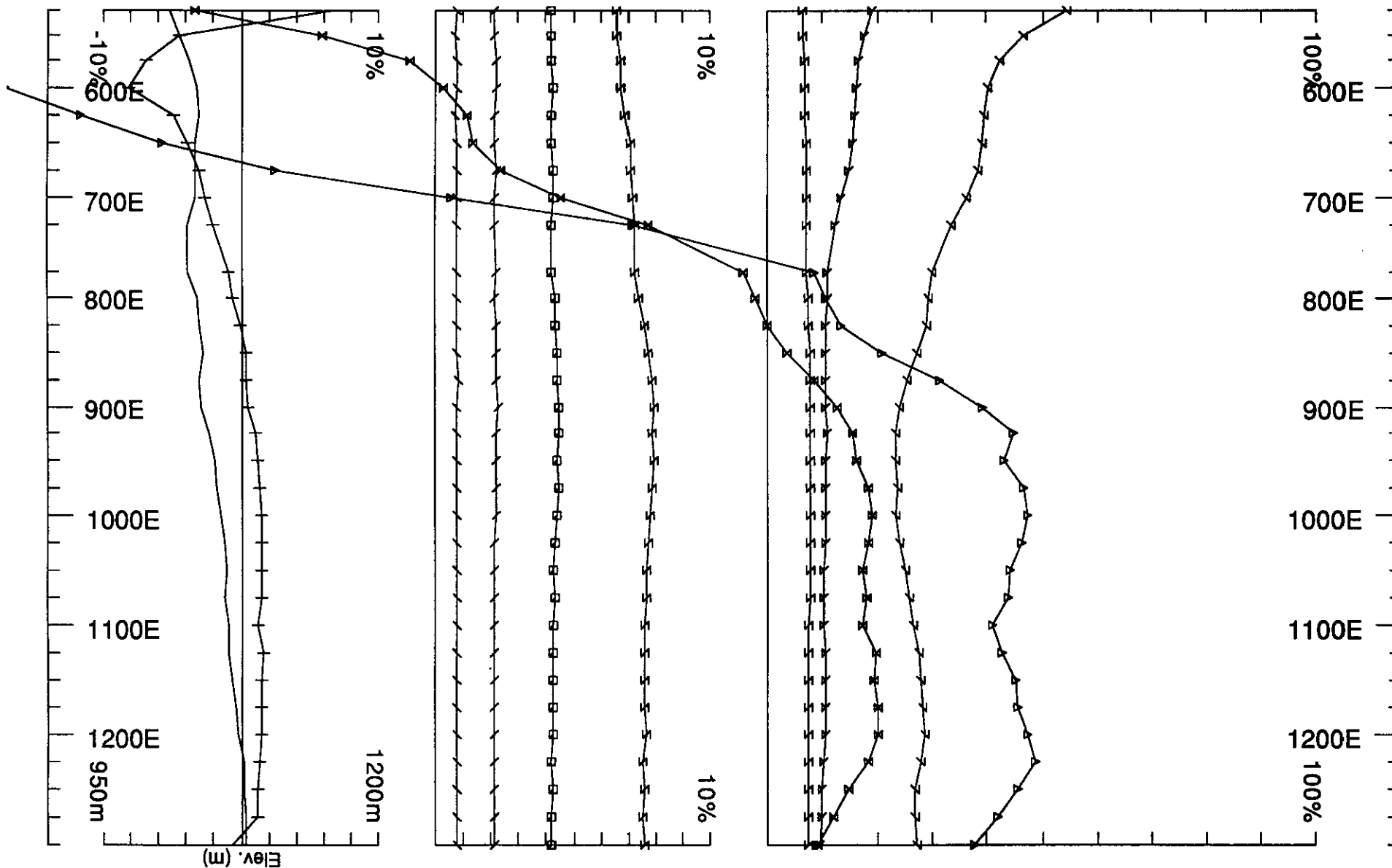


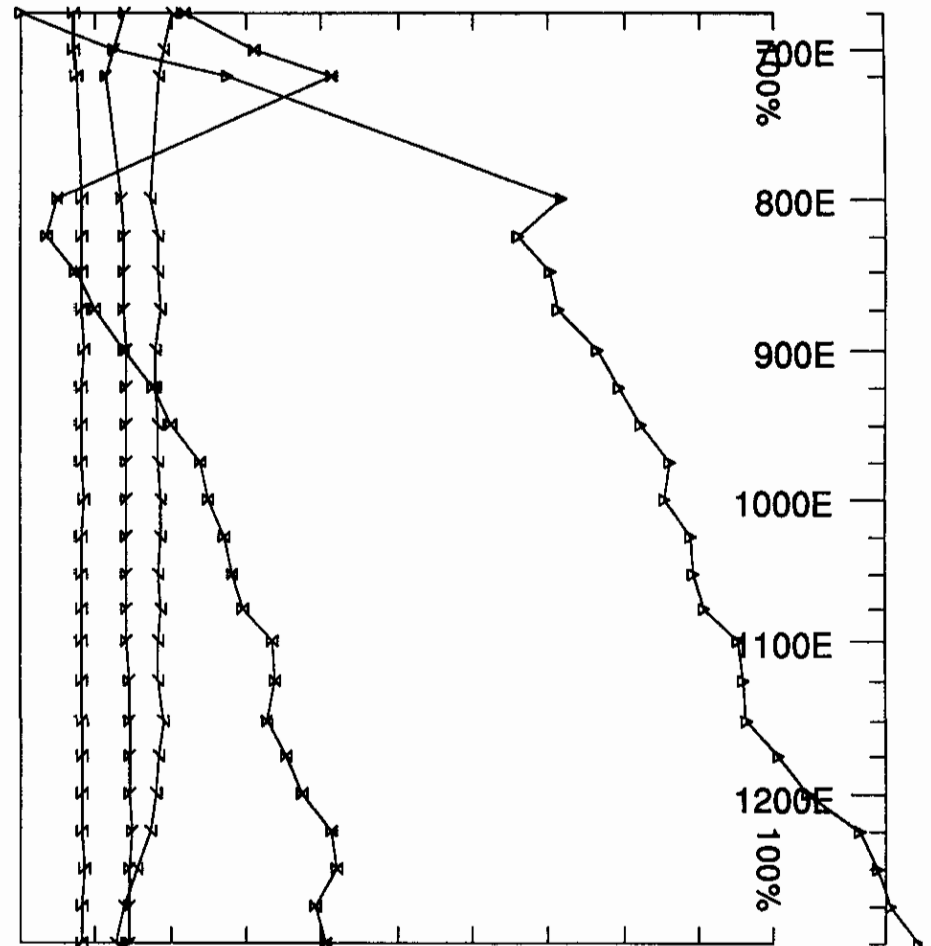
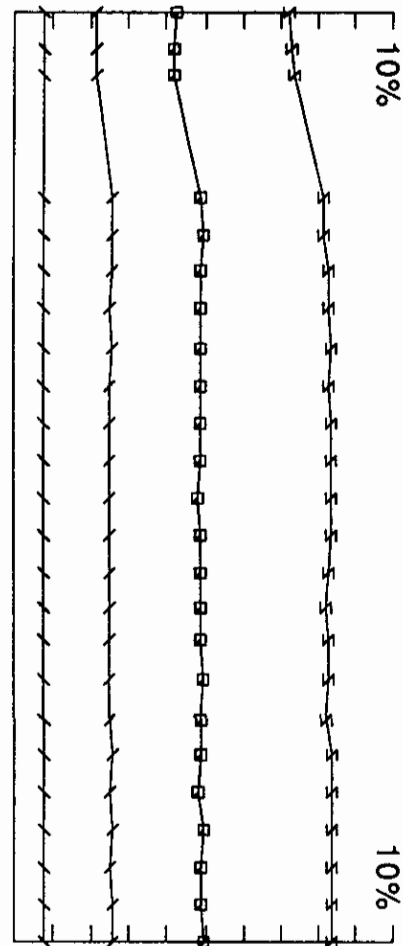
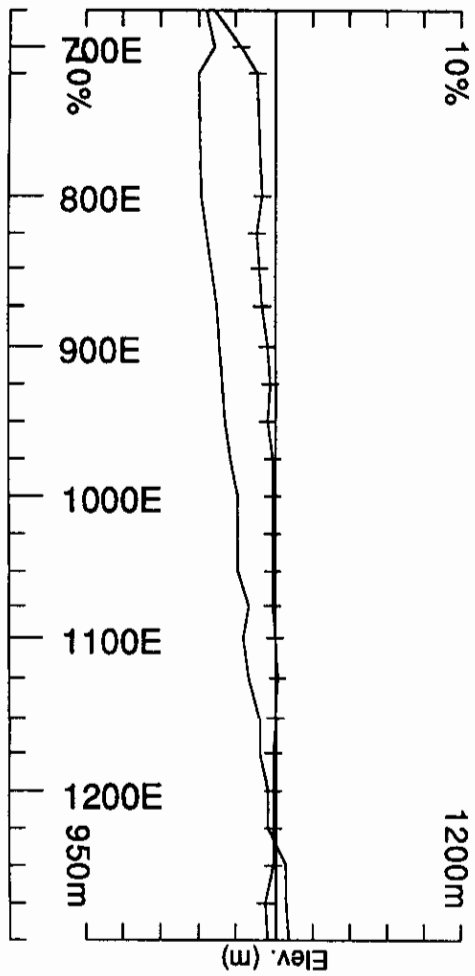
FIG. 25. Point normalized H_z^2 from line 600N. The local secondary fields have been normalized to the constant primary field at station 210W and show how stripped peak-to-peak local anomaly amplitude is estimated.

APPENDIX IV

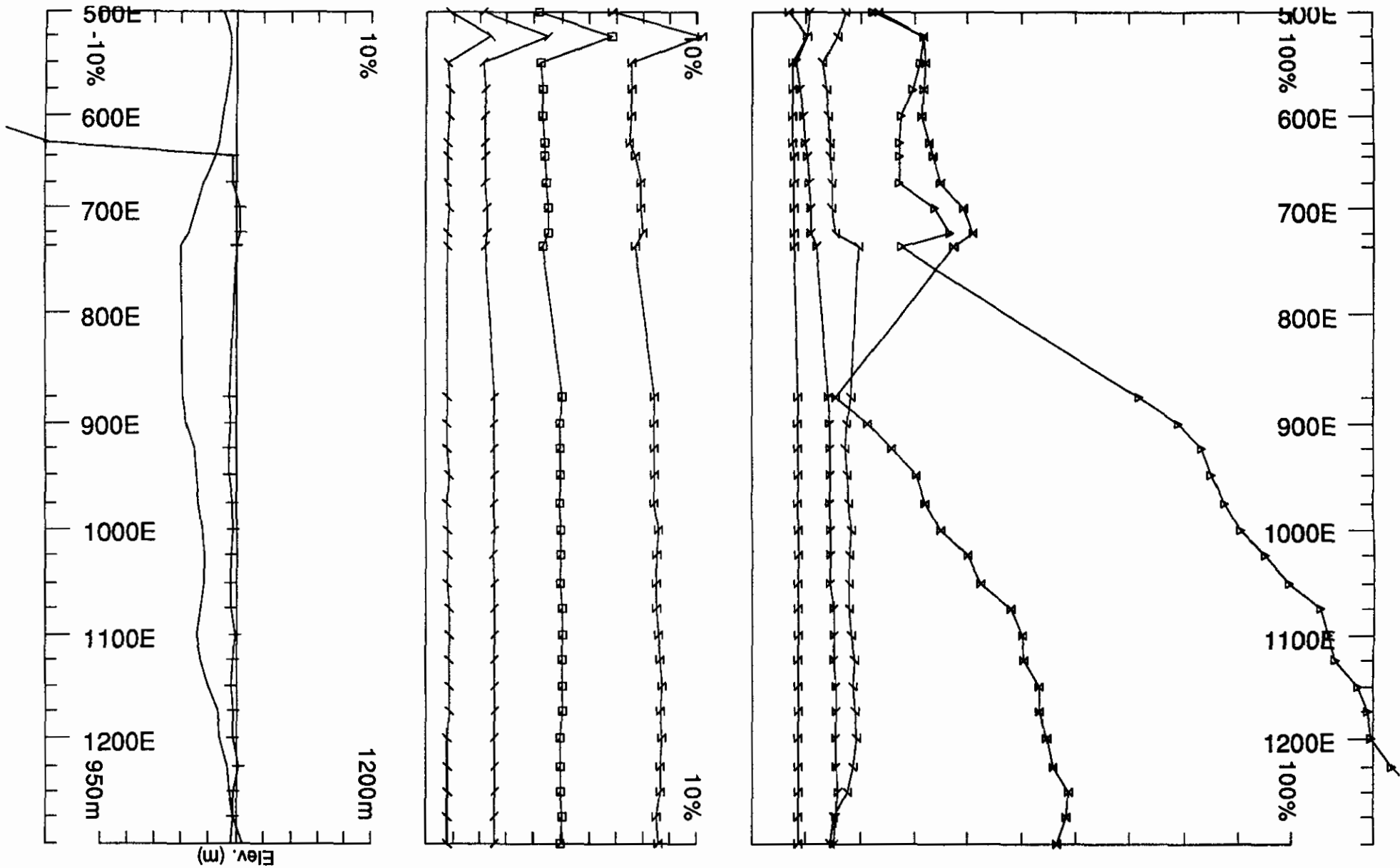
data sections



Loop: 1 Line: 10 Compt: Hz	Secondary, (Chn - Ch1)/ Hp Point Norm.at x,y,z (405325,6273015,1119) Base Freq. 30.974 Hz	UTEM Survey at: FRED 15 PROJECT For: CANAMERA GEOLOGICAL LTD. SJ GEOPHYSICS LTD. Job U9604 Surveyed : 9/9/96 Reduced : 1/11/96 Plotted : 30/11/96
----------------------------------	---	--



Loop: 1	Secondary, (Chn - Ch1)/ Hp	UTEM Survey at: FRED 15 PROJECT	
Line: 11	Point Norm.at x,y,z (405325,6273015,1119)	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	Job U9604 Plotted : 30/11/96

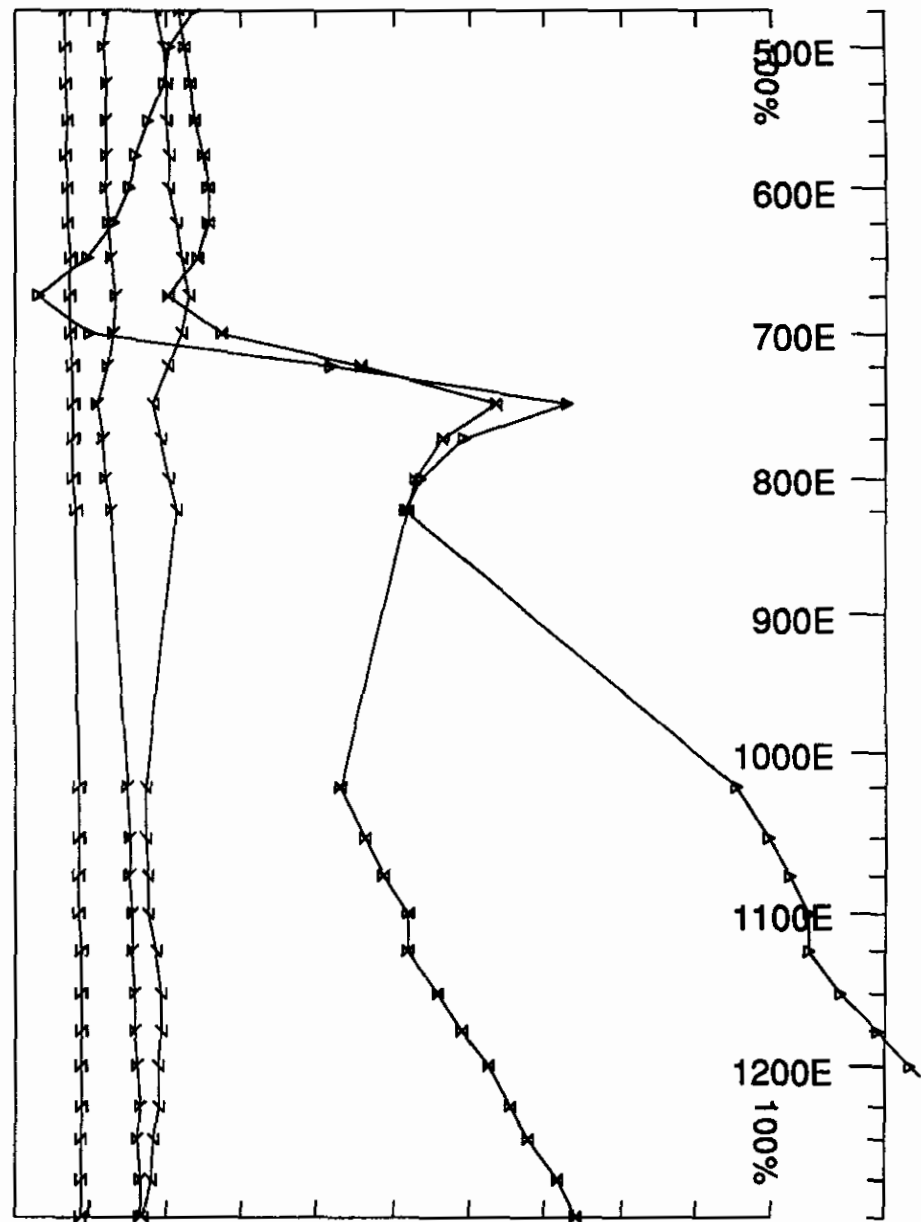
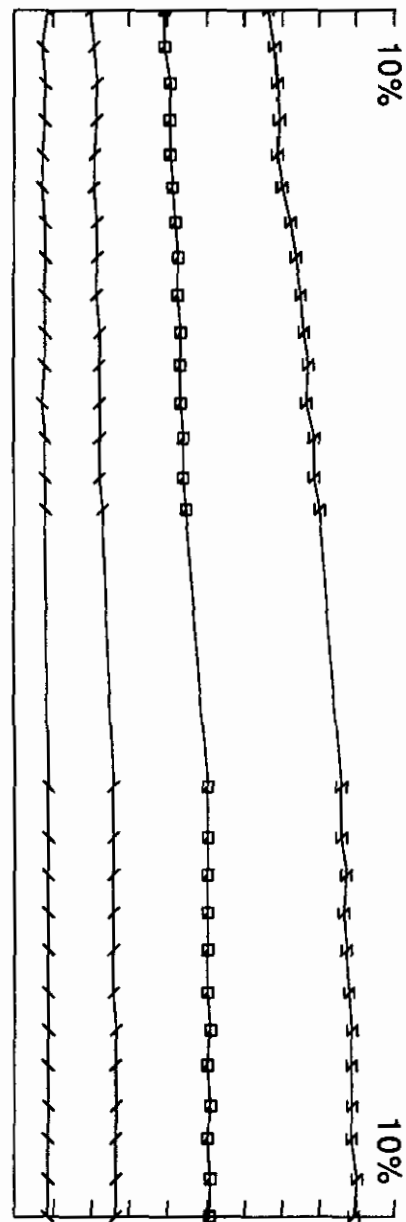
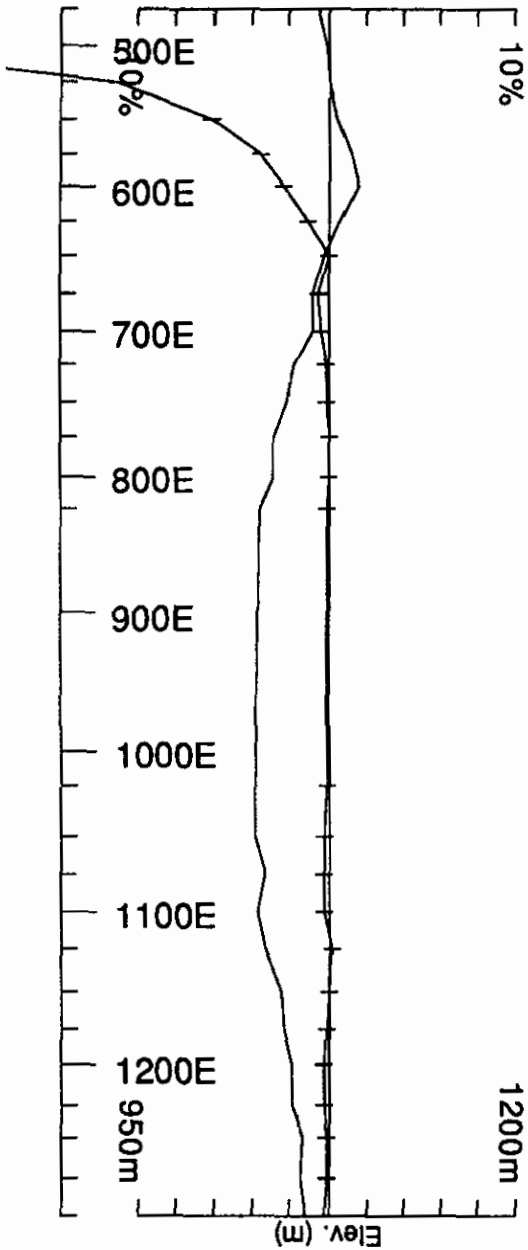


Loop: 1
 Line: 12
 Compt: Hz

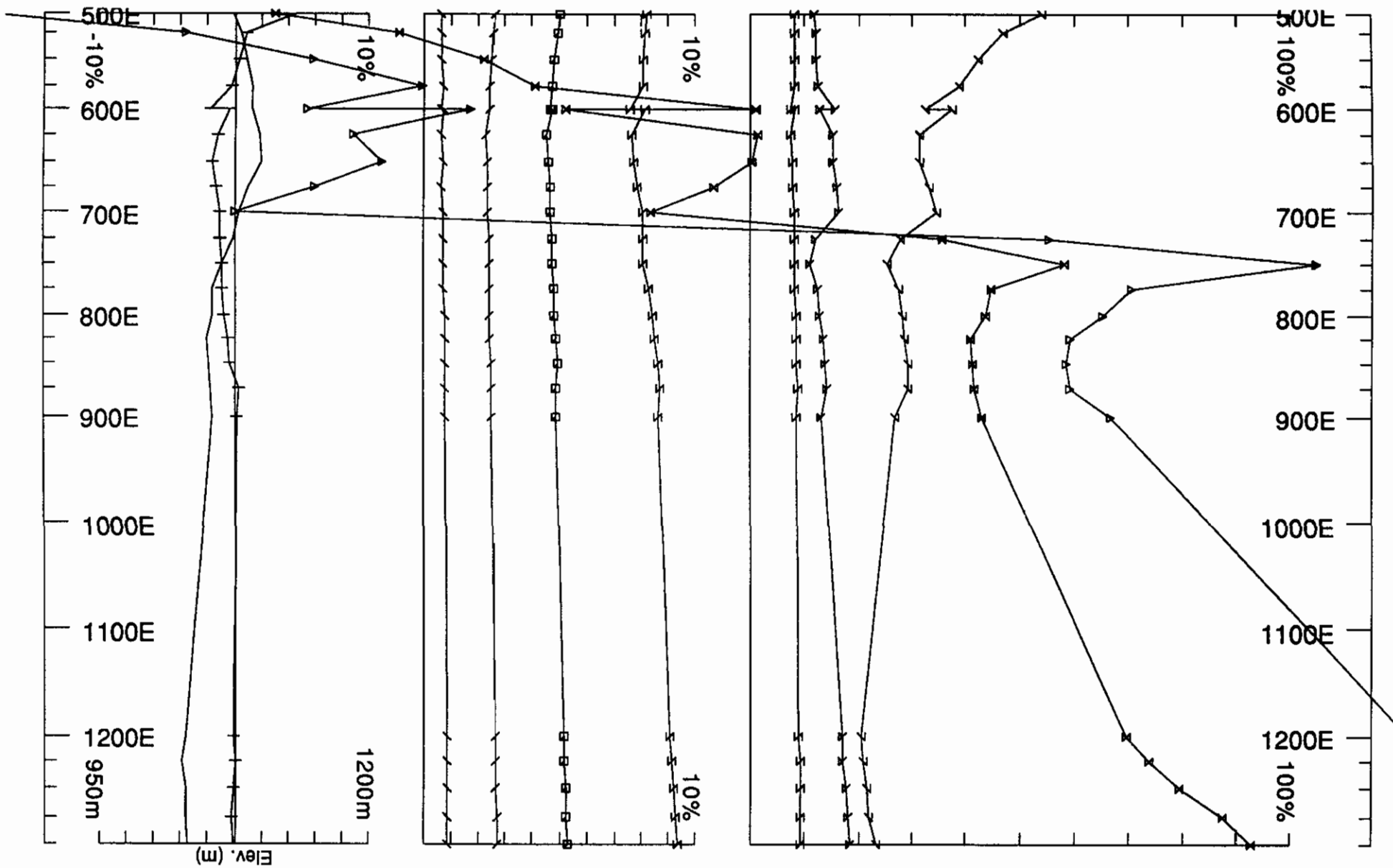
Secondary, (Chn - Ch1)/|Hp|
 Point Norm.at x,y,z
 (405325,6273015,1119)
 Base Freq. 30.974 Hz

UTEM Survey at: FRED 15 PROJECT
 For: CANAMERA GEOLOGICAL LTD.
SJ GEOPHYSICS LTD.

Job
 U9604 Plotted : 30/11/96



Loop: 1	Secondary, (Chn - Ch1)/ Hpl	UTEM Survey at: FRED 15 PROJECT	
Line: 13	Point Norm.at x,y,z (405325,6273015,1119)	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	Job U9604 Plotted : 30/11/96

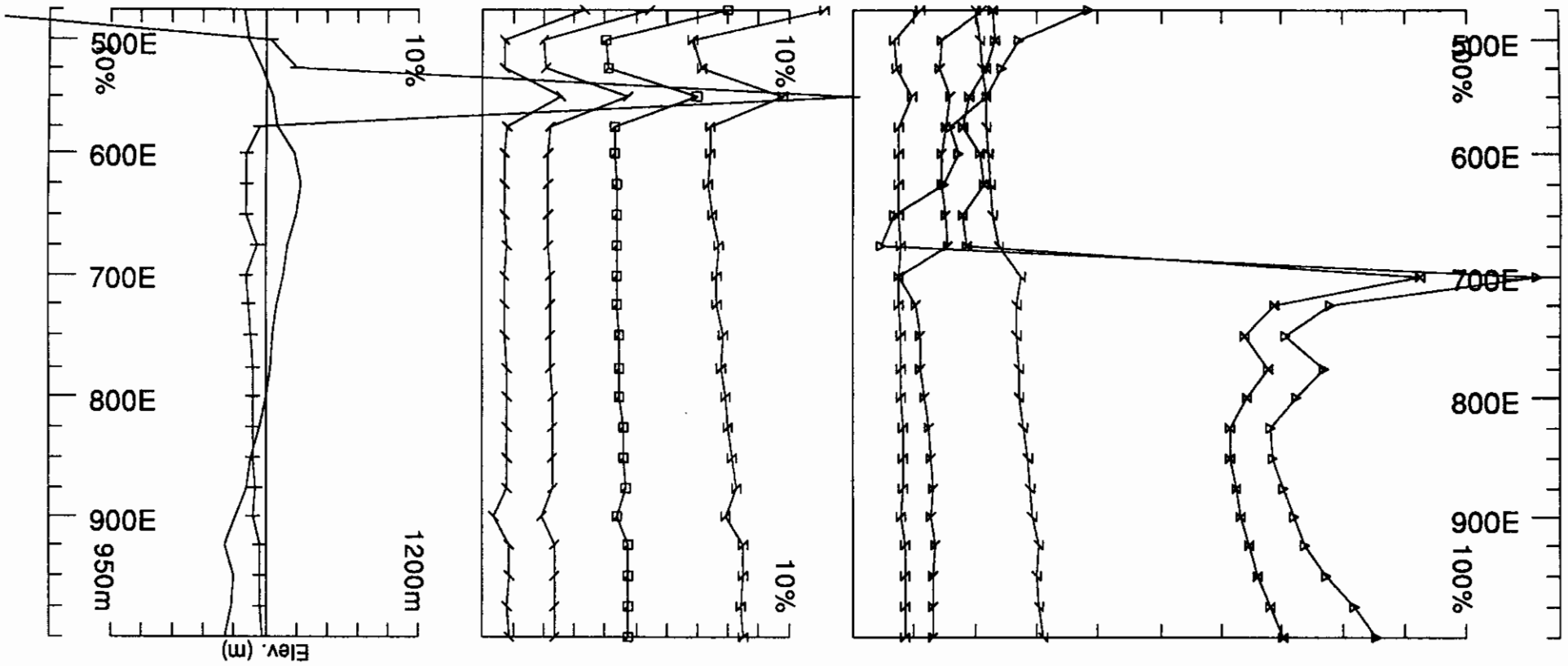


Loop: 1
 Line: 14
 Compt: Hz

Secondary, (Chn - Ch1)/|Hp|
 Point Norm.at x,y,z
 (405325,6273015,1119)
 Base Freq. 30.974 Hz

UTEM Survey at: FRED 15 PROJECT
 For: CANAMERA GEOLOGICAL LTD.
SJ GEOPHYSICS LTD.

Job
 U9604 Plotted : 30/11/98

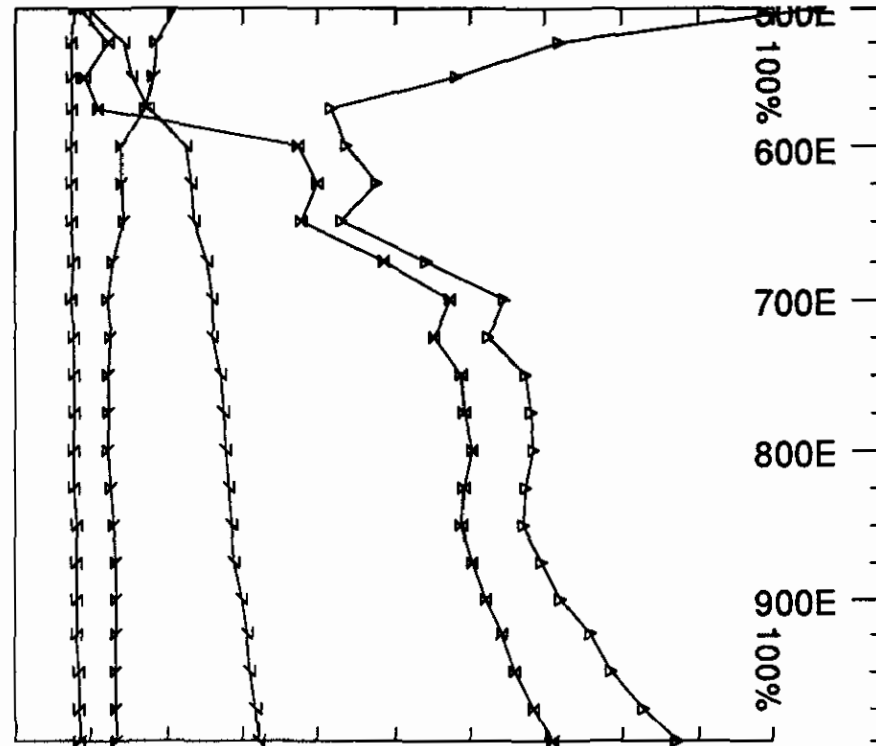
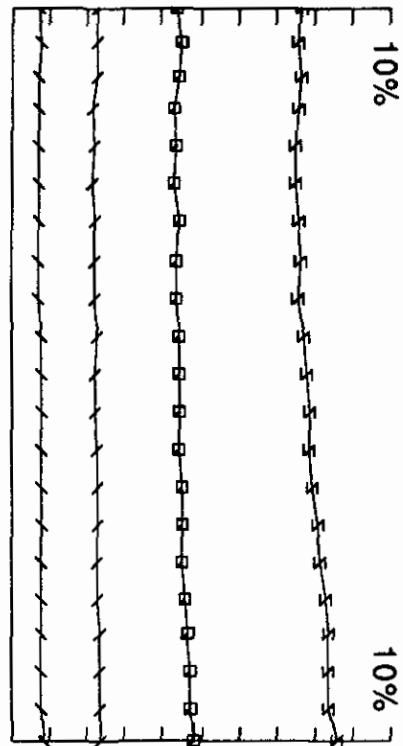
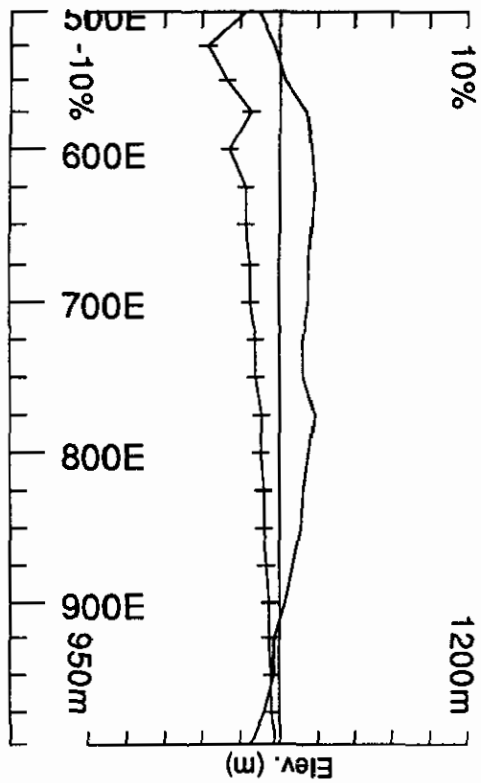


Loop: 1
 Line: 15
 Compt: Hz

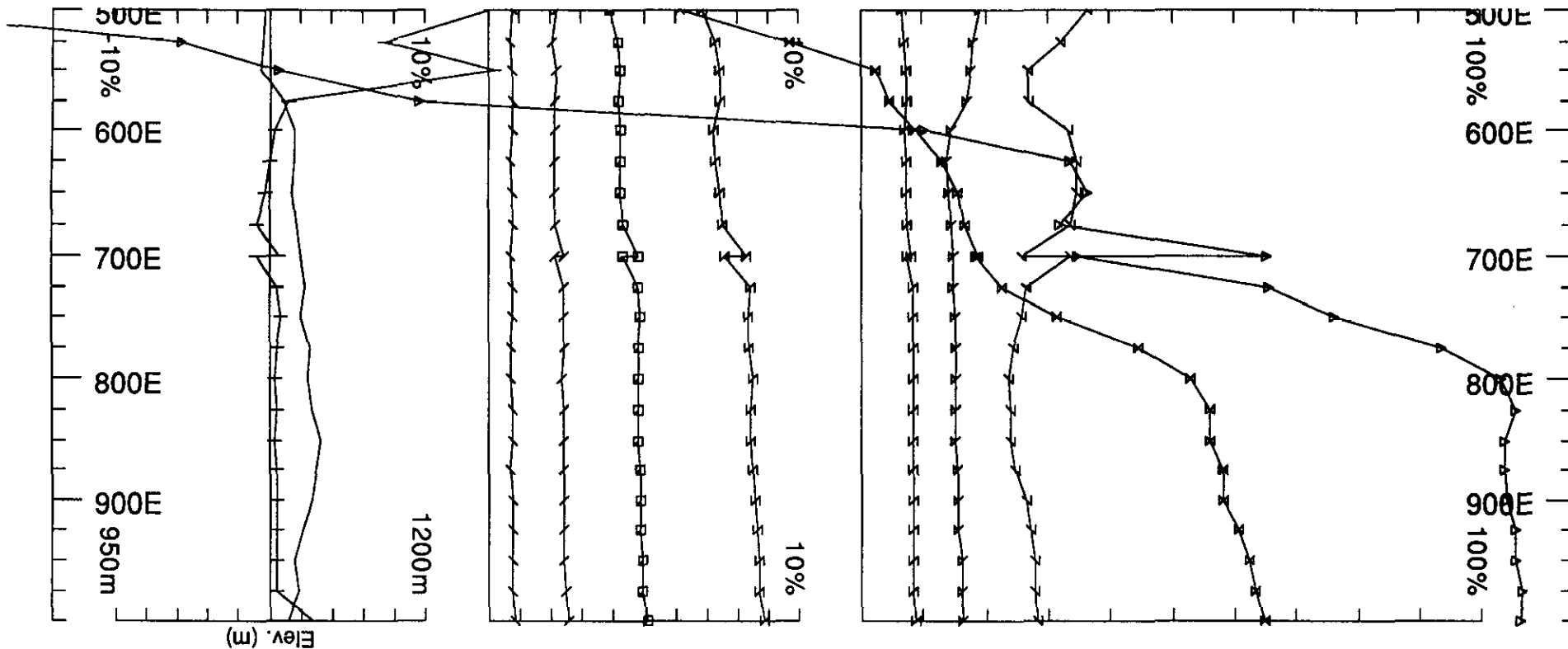
Secondary, (Chn - Ch1)/|Hp|
 Point Norm.at x,y,z
 (405325,6273015,1119)
 Base Freq. 30.974 Hz

UTEM Survey at: FRED 15 PROJECT
 For: CANAMERA GEOLOGICAL LTD.
SJ GEOPHYSICS LTD.

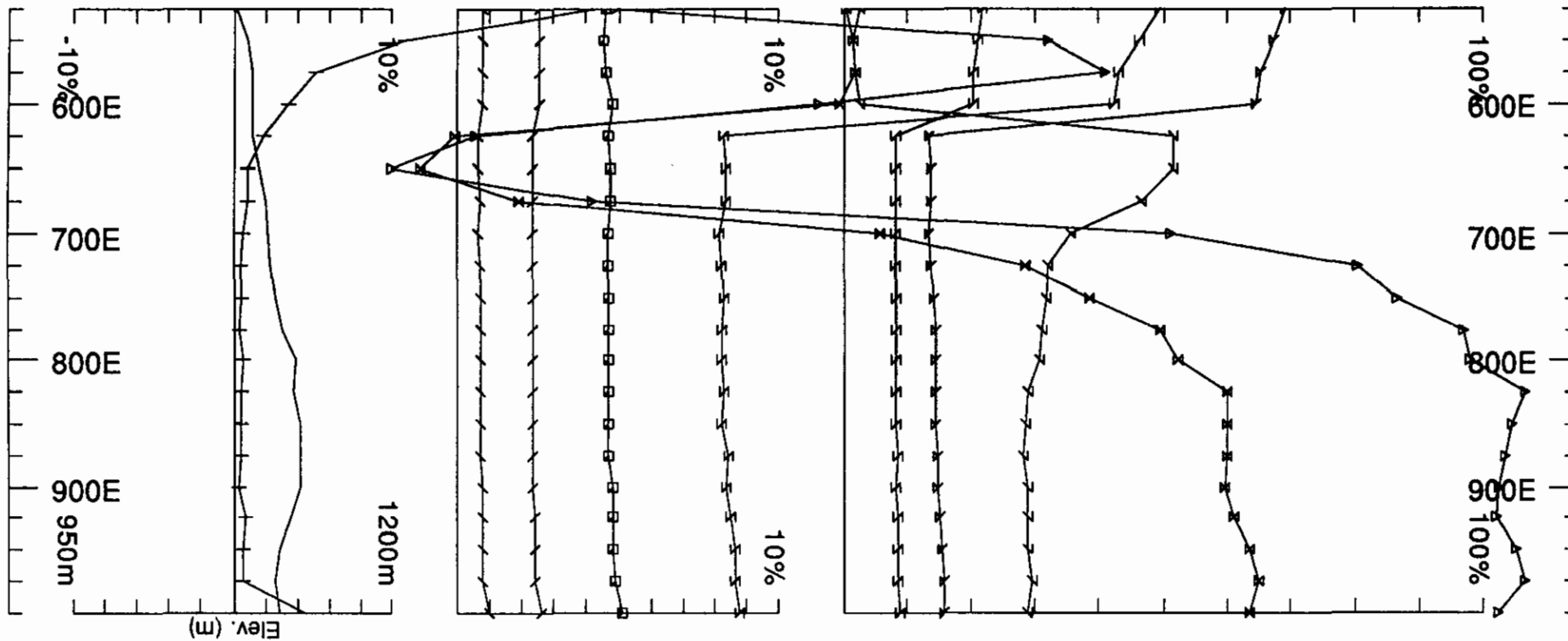
Job
 U9604 Plotted : 30/11/96



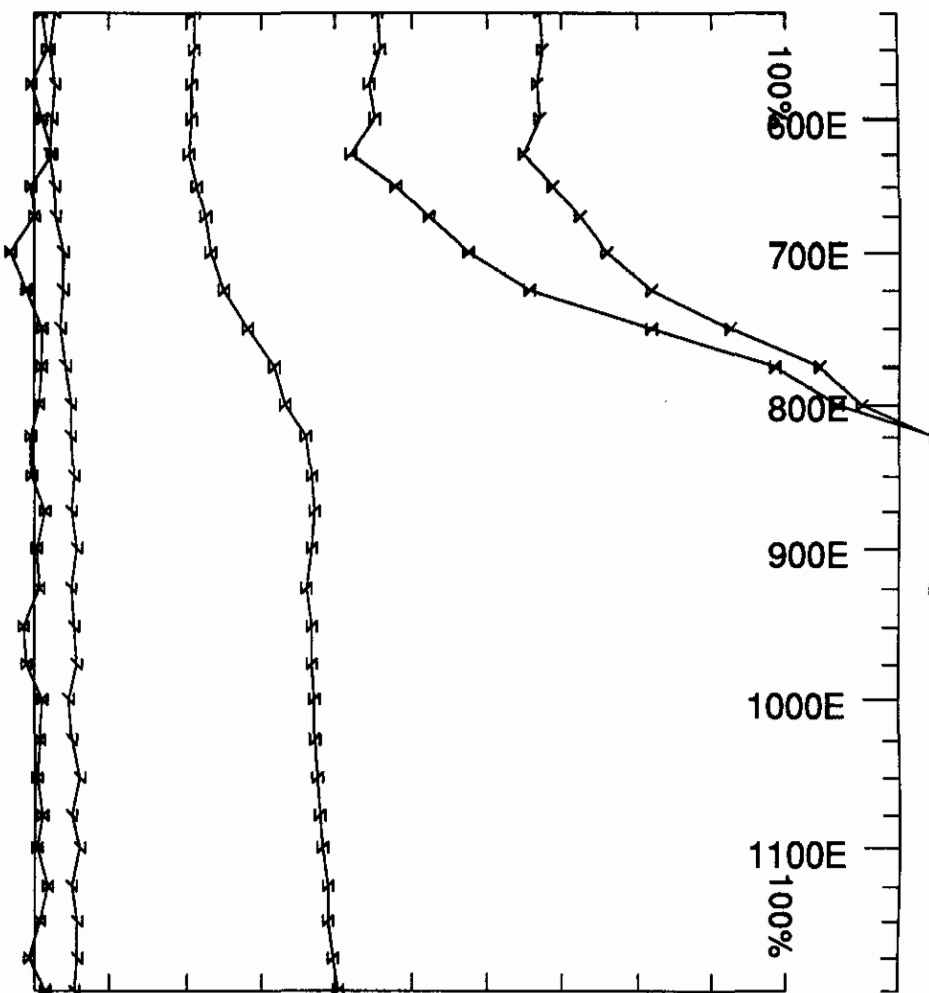
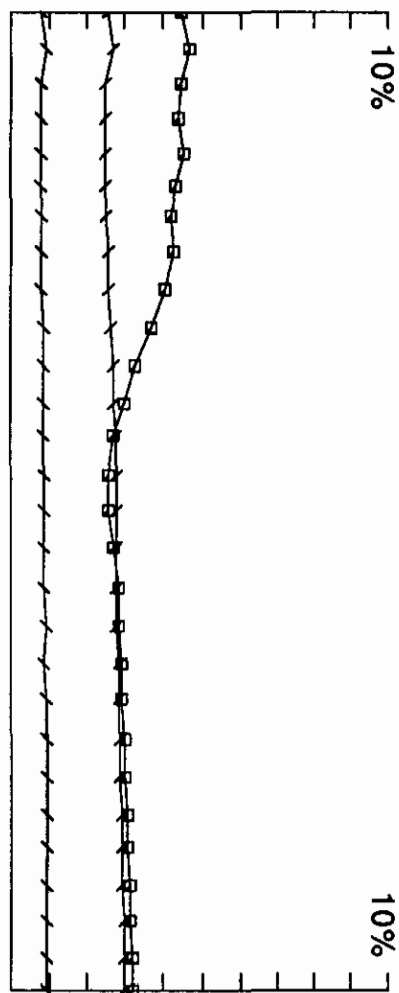
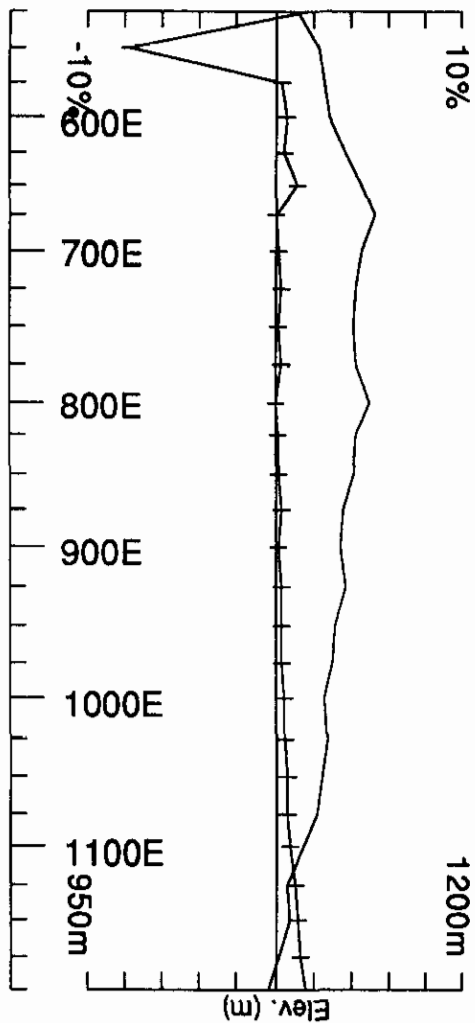
Loop: 1	Secondary, (Chn - Ch1)/ Hp	UTEM Survey at: FRED 15 PROJECT	
Line: 16	Point Norm.at x,y,z (405325,6273015,1119)	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	Job U9604 Plotted : 30/11/98



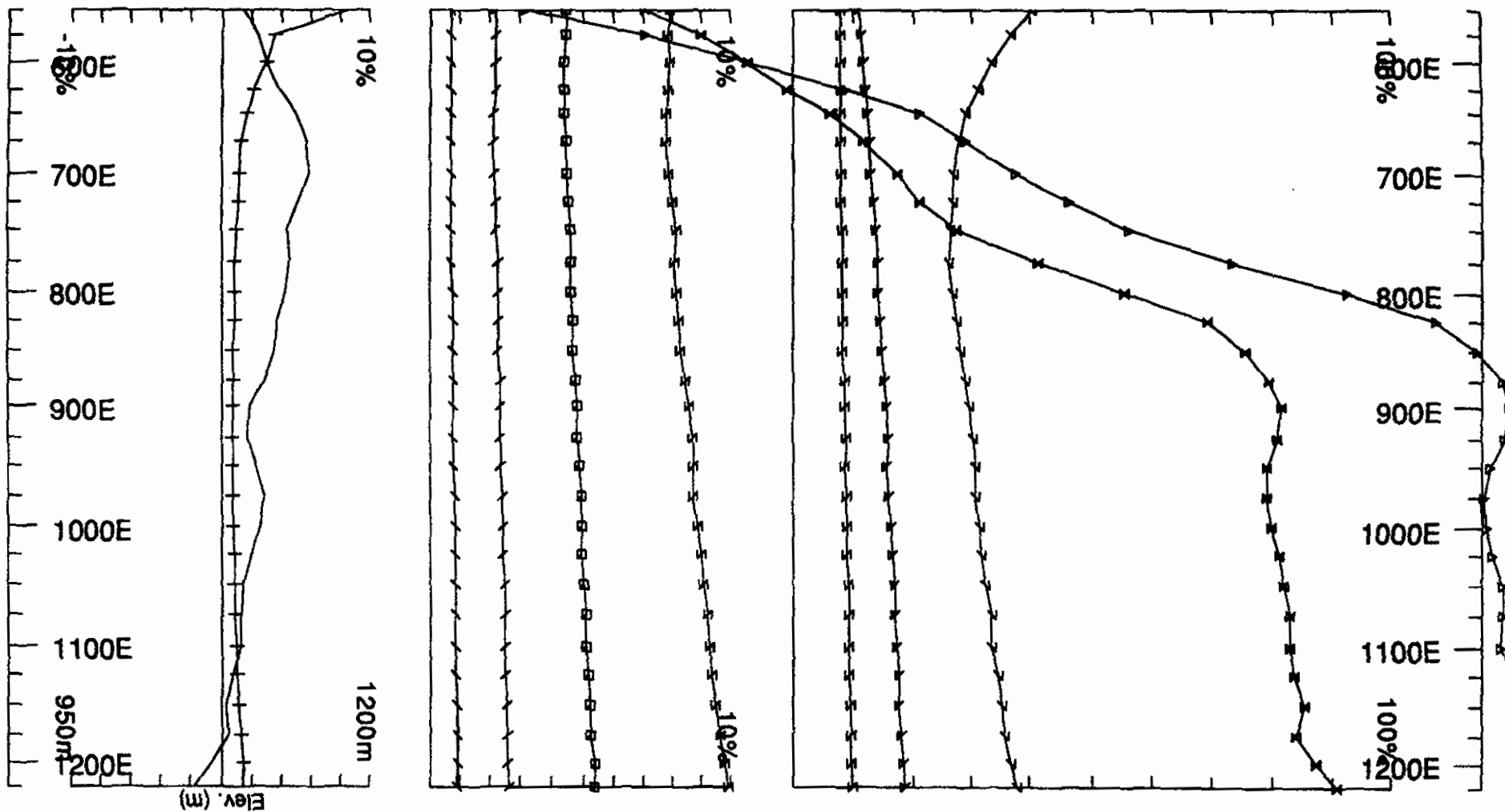
Loop: 1	Secondary, (Chn - Ch1)/ Hp	UTEM Survey at: FRED 15 PROJECT	
Line: 17	Point Norm.at x,y,z (405325,6273015,1119)	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	Job U9604 Plotted : 30/11/86



Loop: 1 Line: 18 Compt: Hz	Secondary, (Chn - Ch1)/ Hp Point Norm.at x,y,z (405325,6273015,1119) Base Freq. 30.974 Hz	UTEM Survey at: FRED 15 PROJECT For: CANAMERA GEOLOGICAL LTD. SJ GEOPHYSICS LTD. Job U9604 Plotted : 30/11/98
----------------------------------	---	--



Loop: 1 Line: 19 Compt: Hz	Secondary, (Chn - Ch1)/ Hp Point Norm.at x,y,z (405325,6273015,1119) Base Freq. 30.974 Hz	UTEM Survey at: FRED 15 PROJECT For: CANAMERA GEOLOGICAL LTD. SJ GEOPHYSICS LTD. Job U9604 Plotted : 30/11/96
----------------------------------	---	---



Loop: 1

Line: 20

Compt: Hz

Secondary, (Chn - Ch1)/|Hp|

Point Norm. at x,y,z

(405325,6273015,1119)

Base Freq. 30.974 Hz

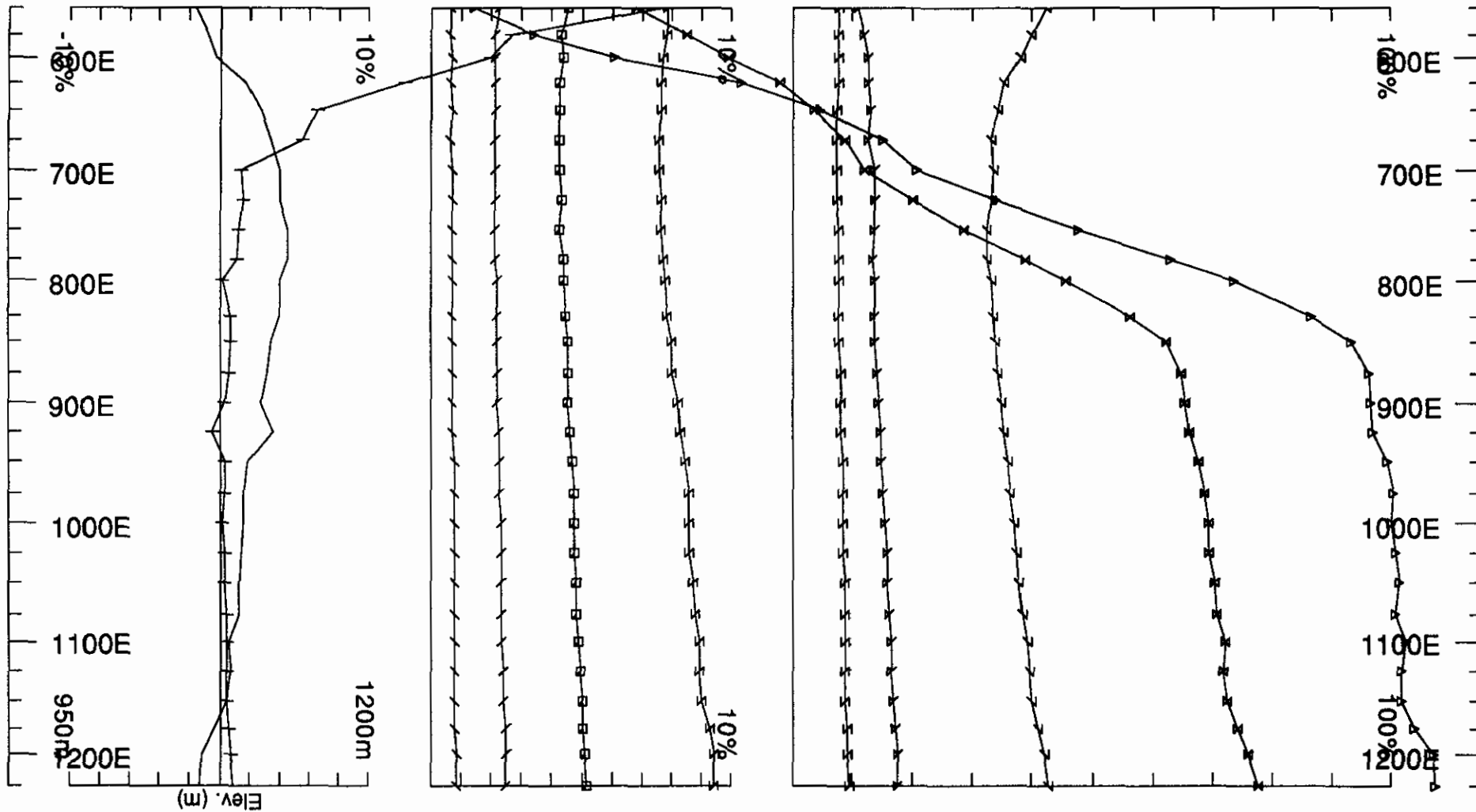
UTEM Survey at: FRED 15 PROJECT

For: CANAMERA GEOLOGICAL LTD.

SJ GEOPHYSICS LTD.

Job
U9604

Surveyed: 14/9/96
Reduced: 1/11/96
Plotted: 30/11/96

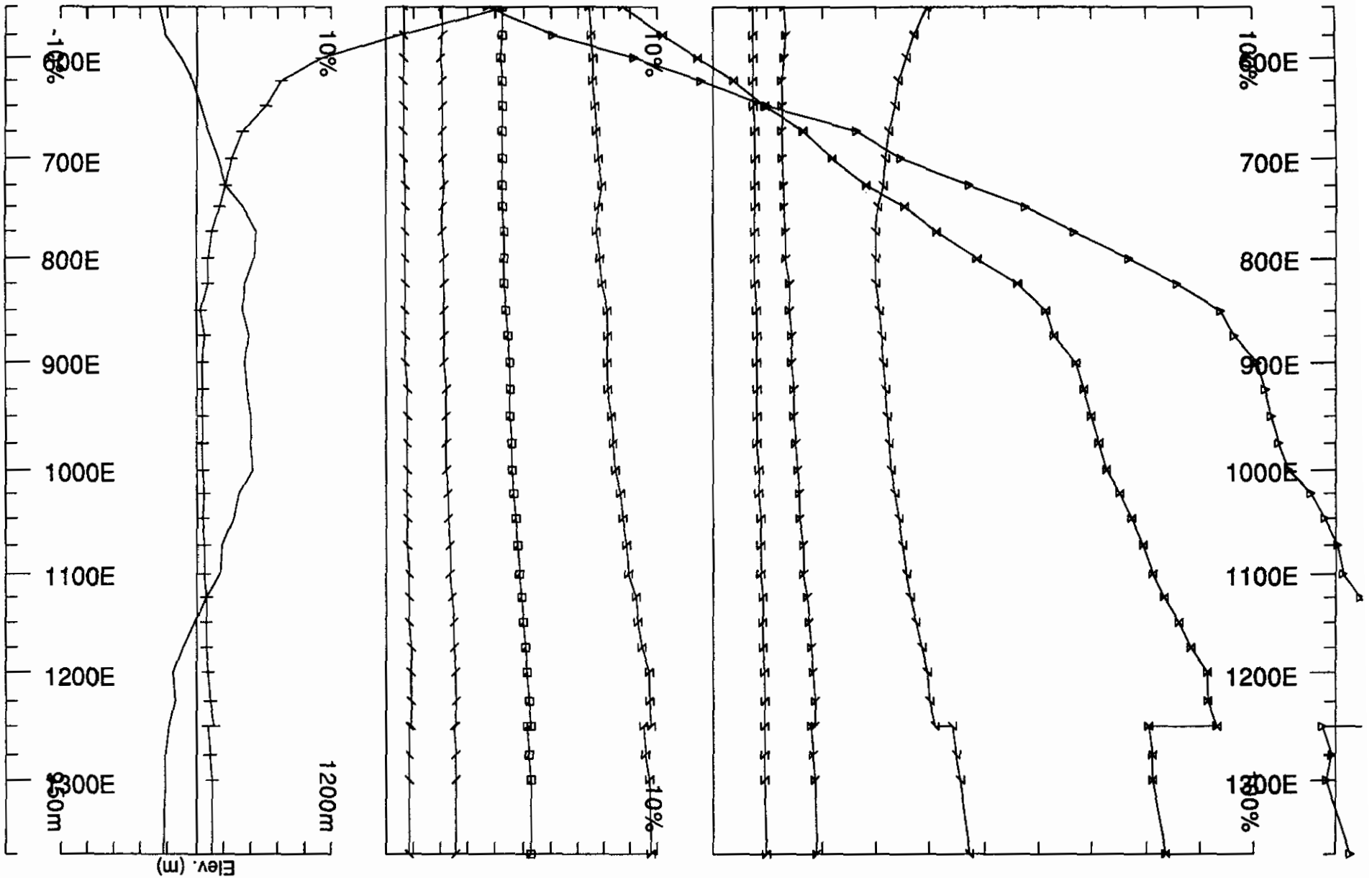


Loop: 1
 Line: 21
 Compt: Hz

Secondary, (Chn - Ch1)/|Hp|
 Point Norm.at x,y,z
 (405325,6273015,11119)
 Base Freq. 30.974 Hz

UTEM Survey at: FRED 15 PROJECT
 For: CANAMERA GEOLOGICAL LTD.
SJ GEOPHYSICS LTD.

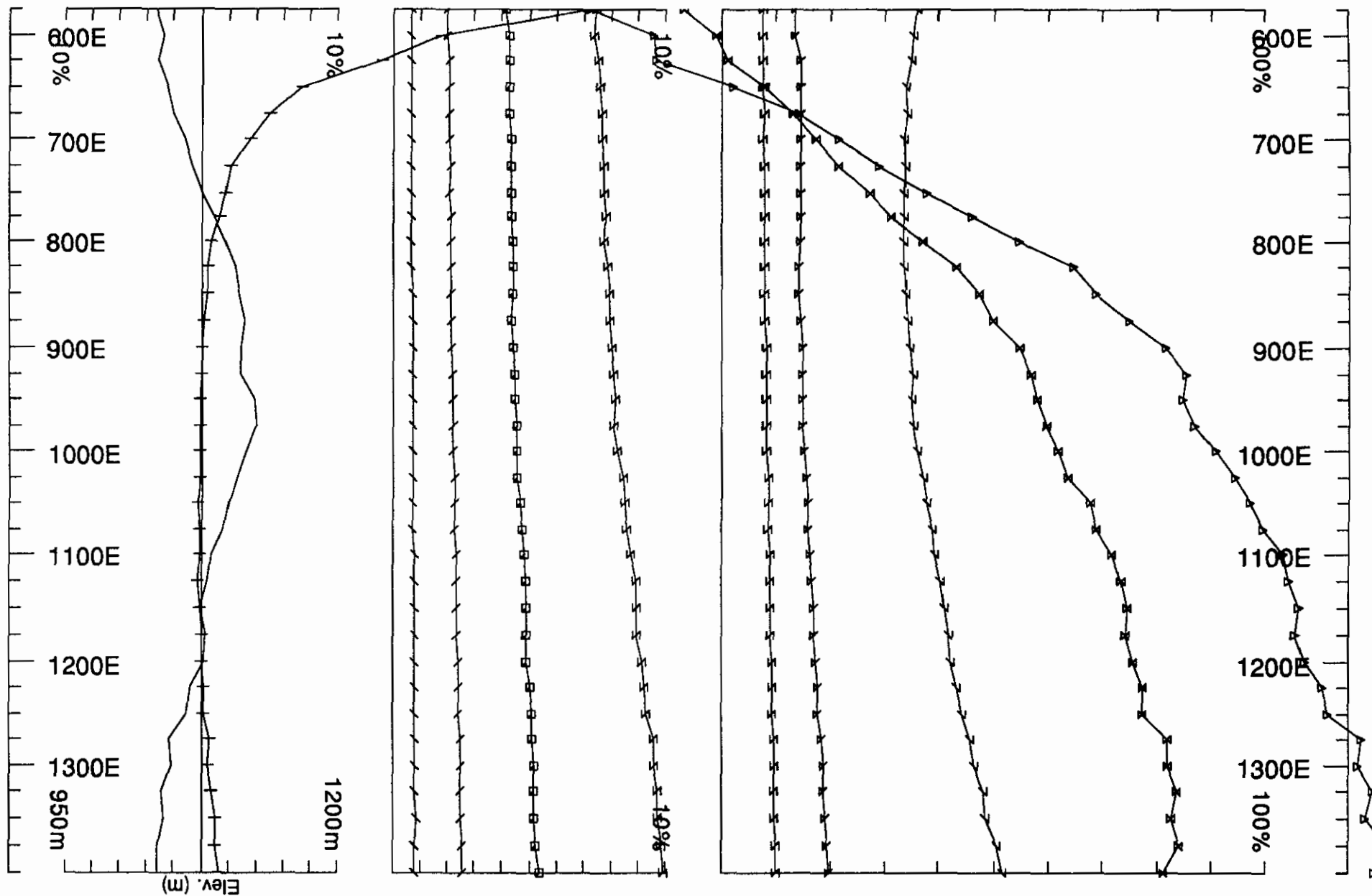
Job
 U9604 Plotted : 30/11/96



Loop: 1
 Line: 22
 Compt: Hz

Secondary, (Chn - Ch1)/|Hp|
 Point Norm.at x,y,z
 (405325,6273015,1119)
 Base Freq. 30.974 Hz

UTEM Survey at: FRED 15 PROJECT
 For: CANAMERA GEOLOGICAL LTD.
SJ GEOPHYSICS LTD.
 Job
 U9604 Plotted : 30/11/96

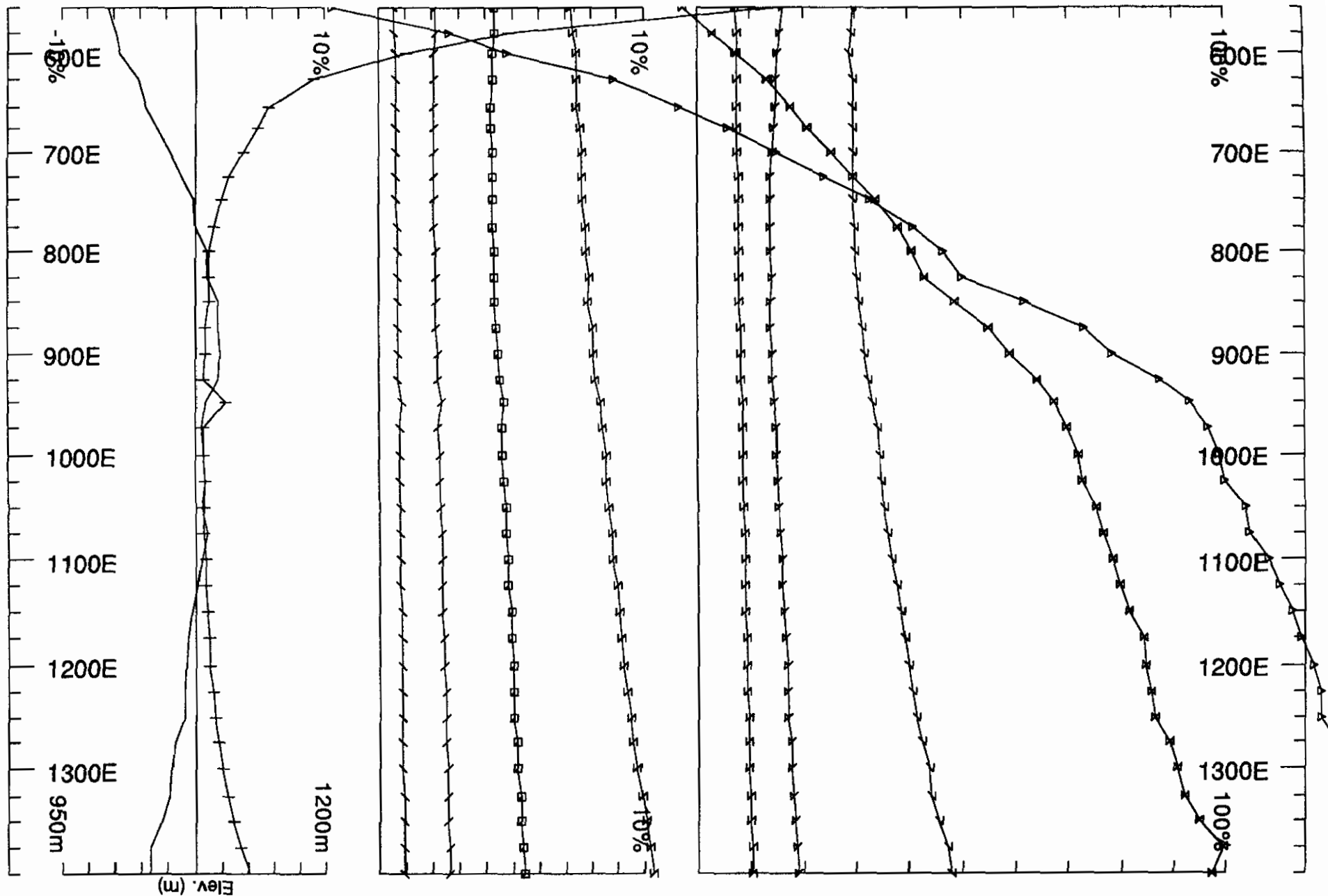


Loop: 1
 Line: 23
 Compt: Hz

Secondary, (Chn - Ch1)/|Hpl|
 Point Norm.at x,y,z
 (405325,6273015,1119)
 Base Freq. 30.974 Hz

UTEM Survey at: FRED 15 PROJECT
 For: CANAMERA GEOLOGICAL LTD.
 SJ GEOPHYSICS LTD.

Job
 U9604 Plotted : 30/11/96

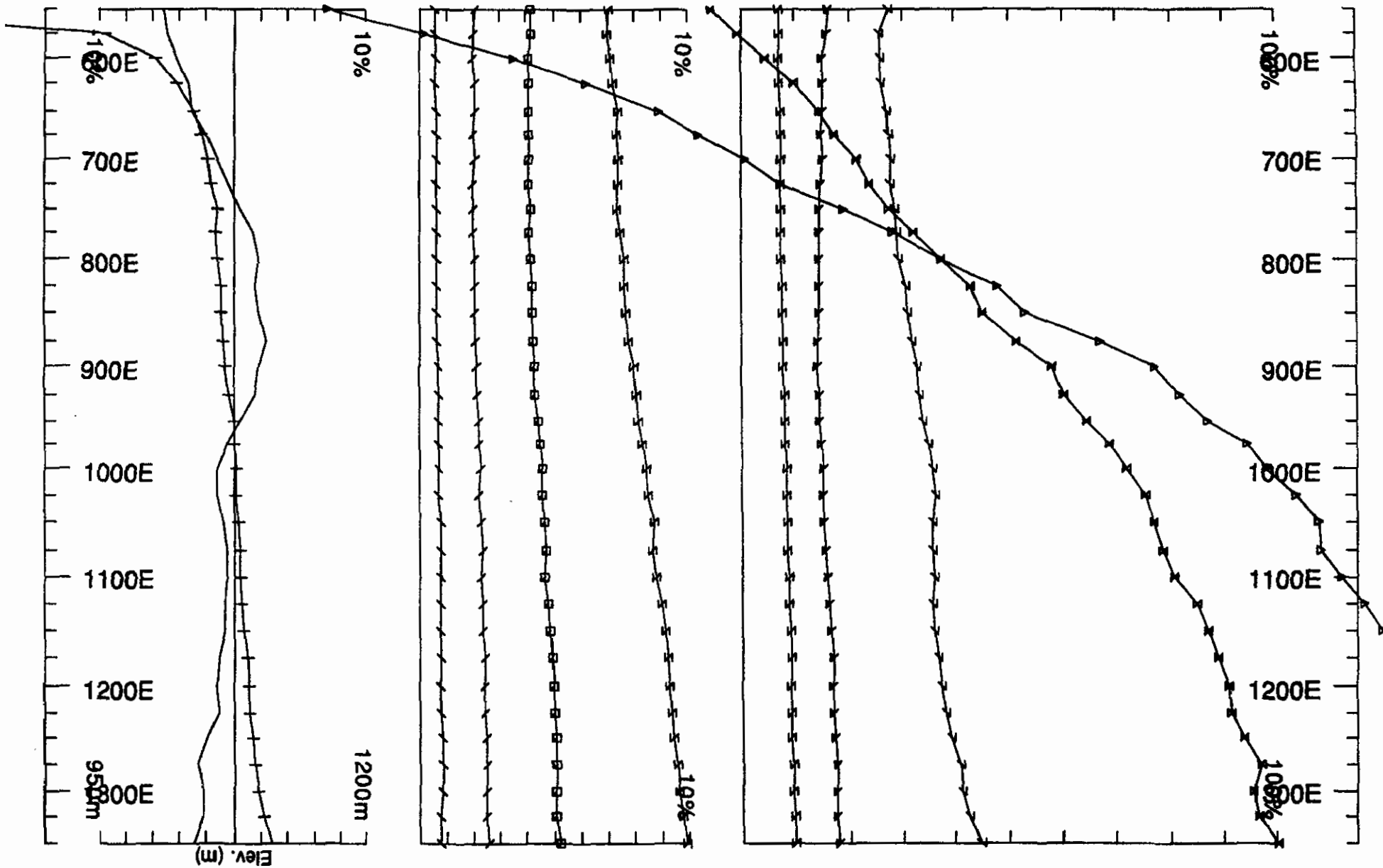


Loop: 1
 Line: 24
 Compt: Hz

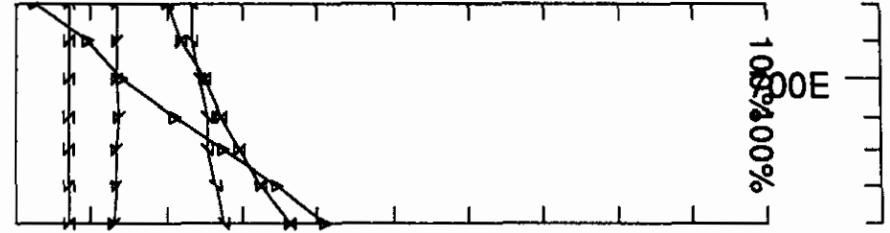
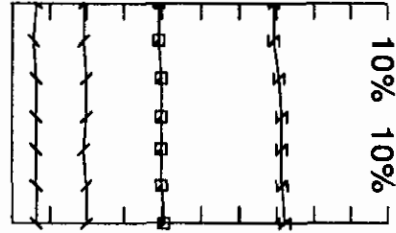
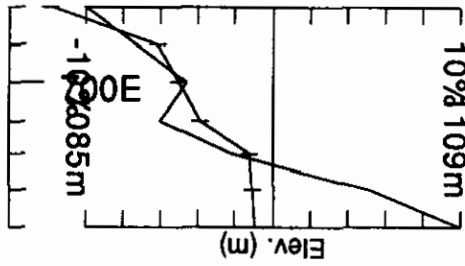
Secondary, (Chn - Ch1)/|Hp|
 Point Norm.at x,y,z
 (405325,6273015,1119)
 Base Freq. 30.974 Hz

UTEM Survey at: FRED 15 PROJECT
For: CANAMERA GEOLOGICAL LTD.
SJ GEOPHYSICS LTD.

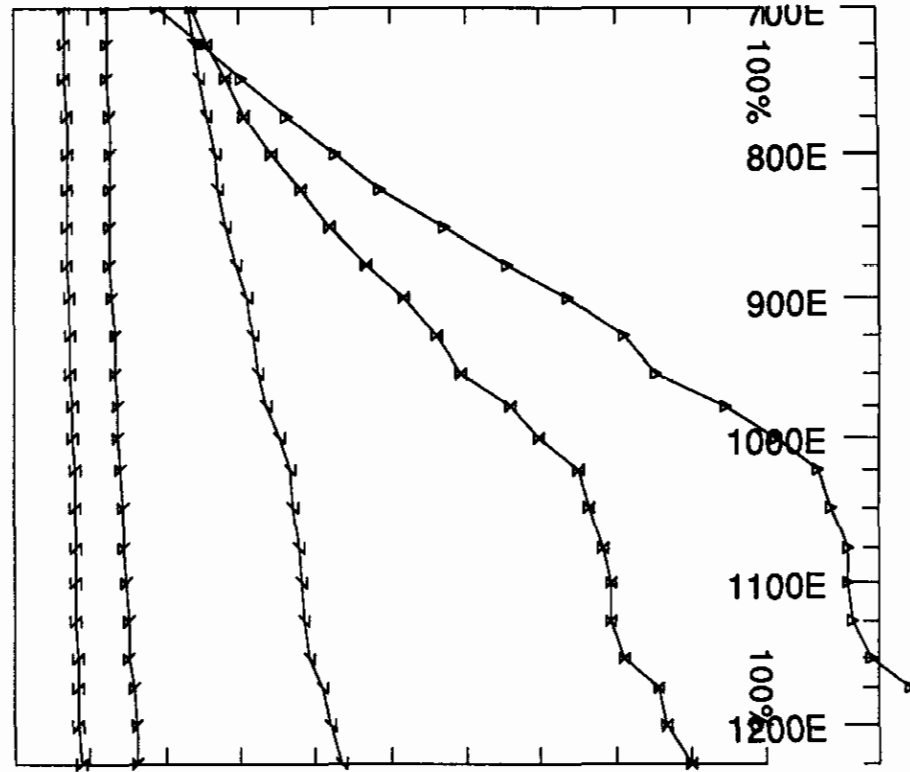
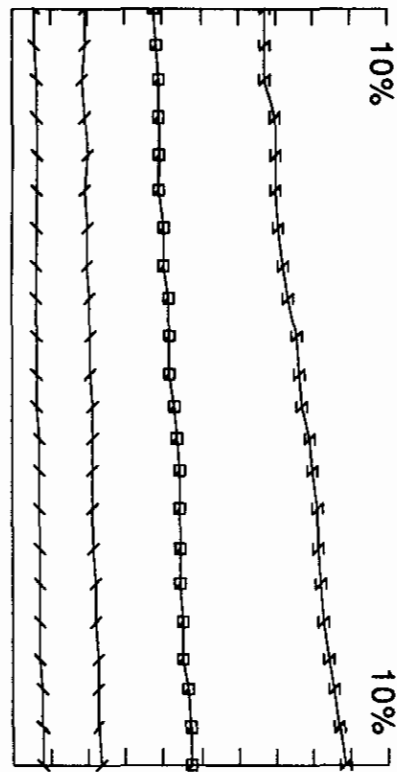
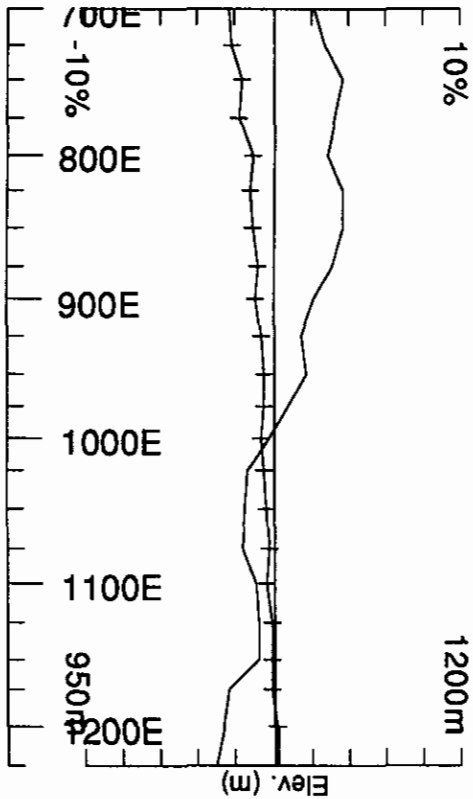
Job U9604
 Surveyed: 16/9/96
 Reduced: 1/11/96
 Plotted: 30/11/96



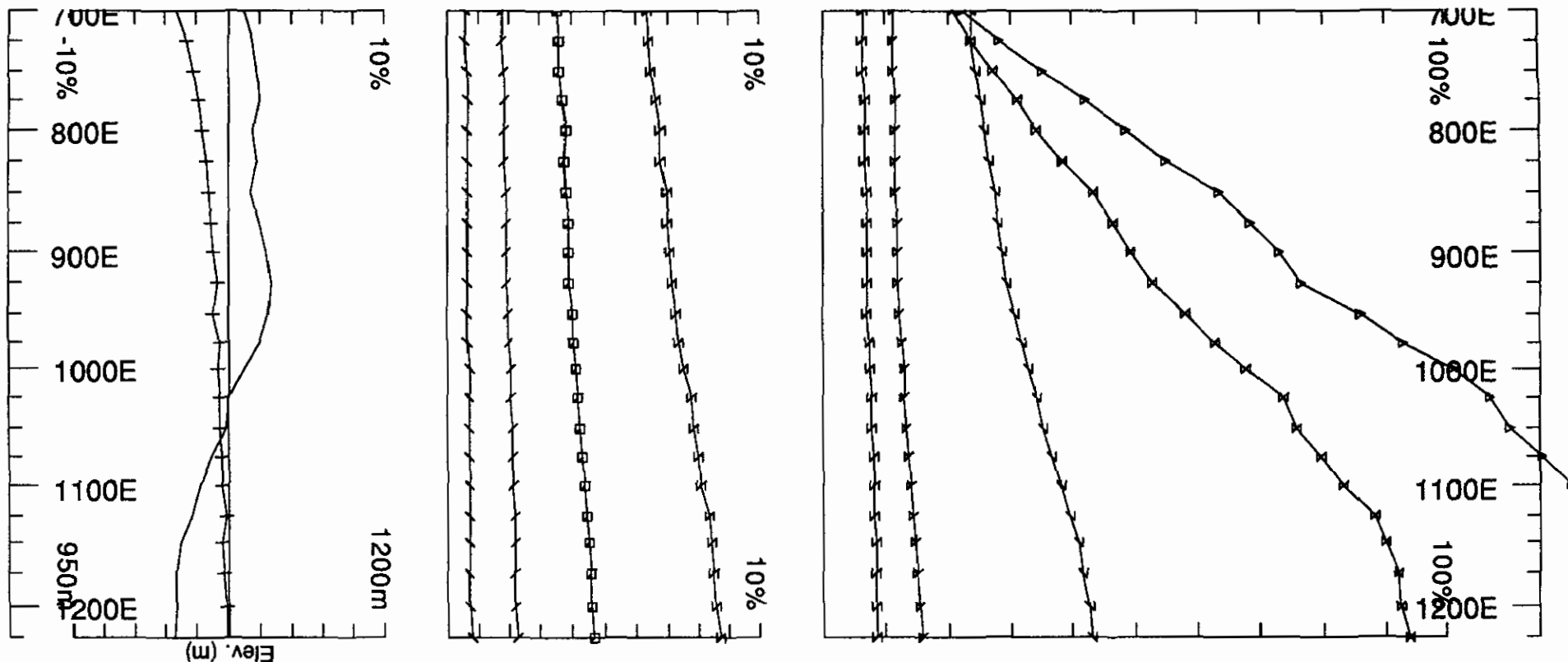
Loop: 1 Line: 25 Compt: Hz	Secondary, (Chn - Ch1)/ Hp Point Norm.at x,y,z (405325,6273015,1119) Base Freq. 30.974 Hz	UTEM Survey at: FRED 15 PROJECT For: CANAMERA GEOLOGICAL LTD. SJ GEOPHYSICS LTD. Job U9604 Surveyed: 18/9/98 Reduced: 1/11/98 Plotted: 30/11/98
----------------------------------	---	--



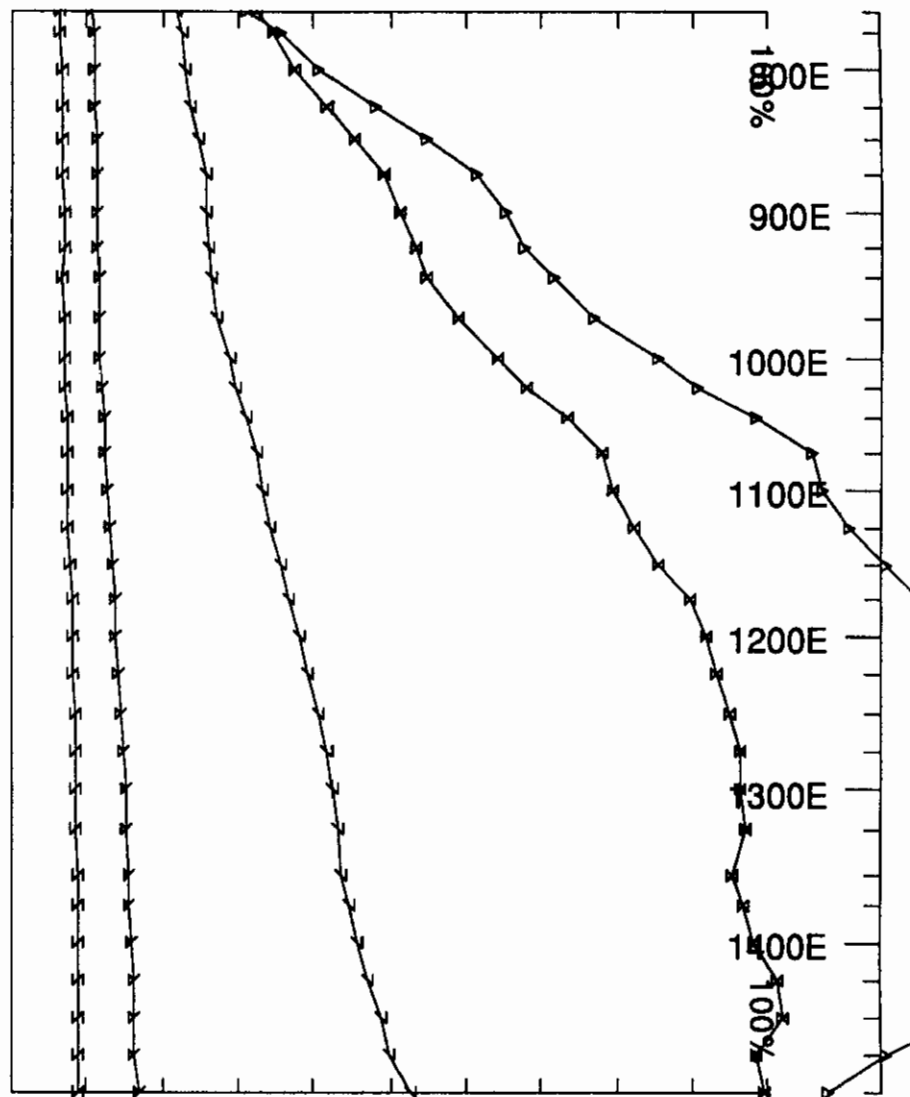
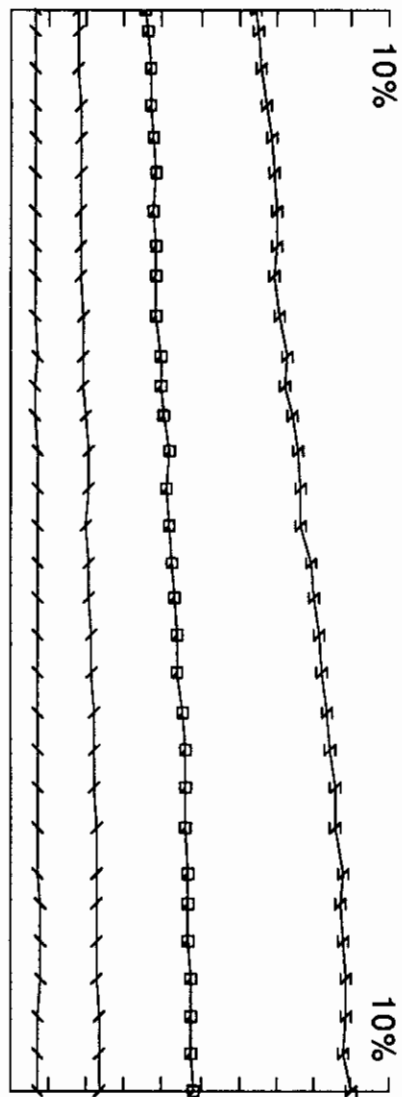
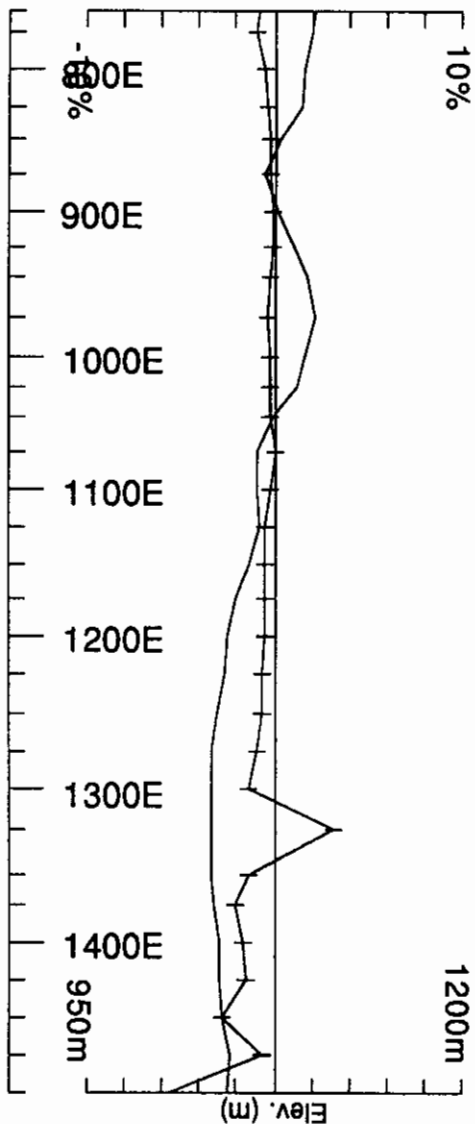
Loop: 1 Line: 26 Compt: Hz	Secondary, (Chn - Ch1)/ Hpl Point Norm.at x,y,z (405325,6273015,1119) Base Freq. 30.974 Hz	UTEM Survey at: FRED 15 PROJECT For: CANAMERA GEOLOGICAL LTD. SJ GEOPHYSICS LTD.	
		Job U9604 Plotted : 30/11/96	



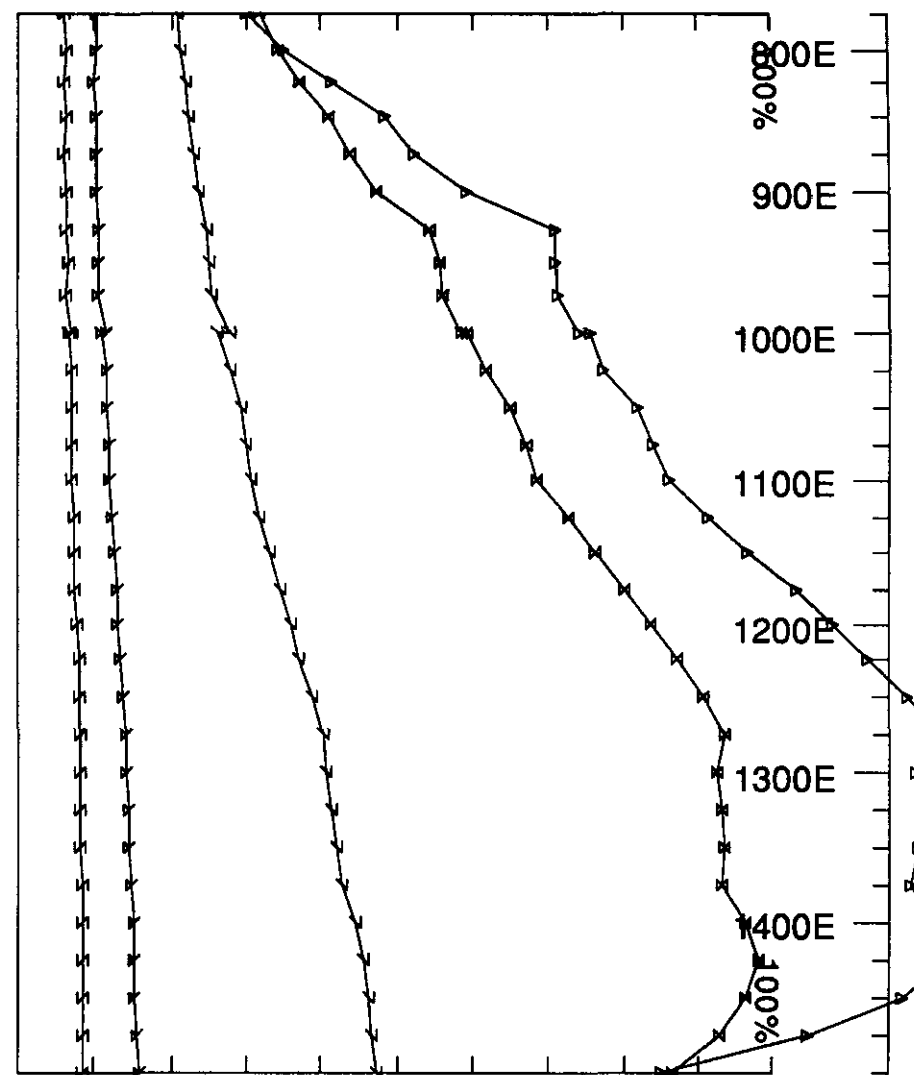
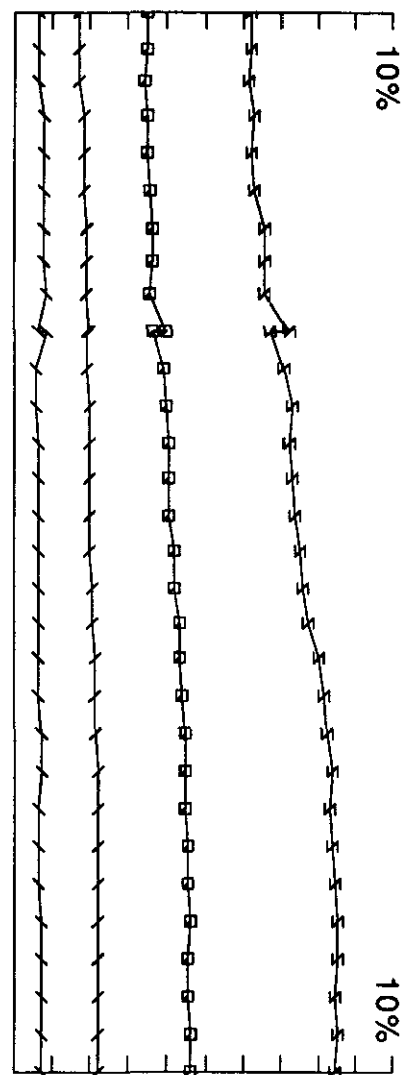
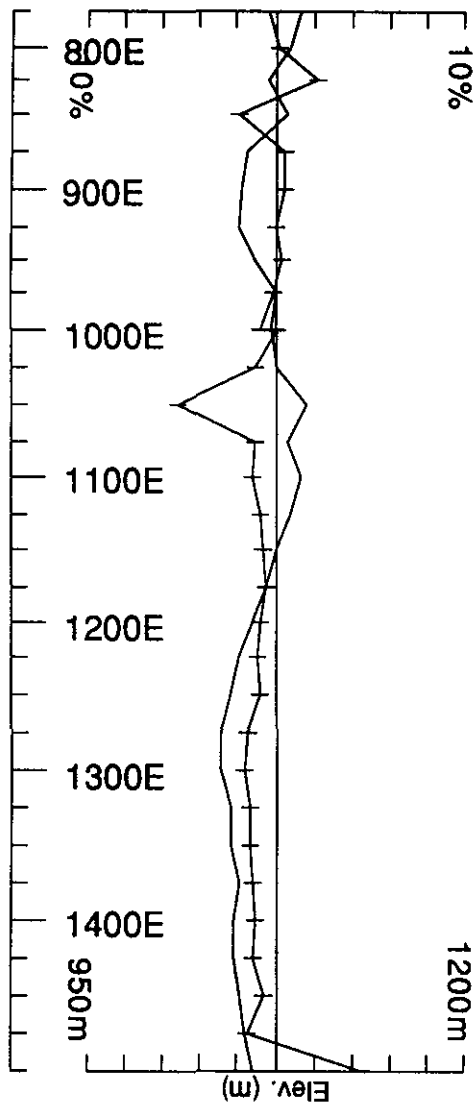
Loop: 1 Line: 27 Compt: Hz	Secondary, (Chn - Ch1)/ Hp Point Norm.at x,y,z (405325,6273015,1119) Base Freq. 30.974 Hz	UTEM Survey at: FRED 15 PROJECT For: CANAMERA GEOLOGICAL LTD. SJ GEOPHYSICS LTD.	Job U9604 Surveyed : 8/9/96 Reduced : 1/11/96 Plotted : 30/11/96
----------------------------------	---	---	---



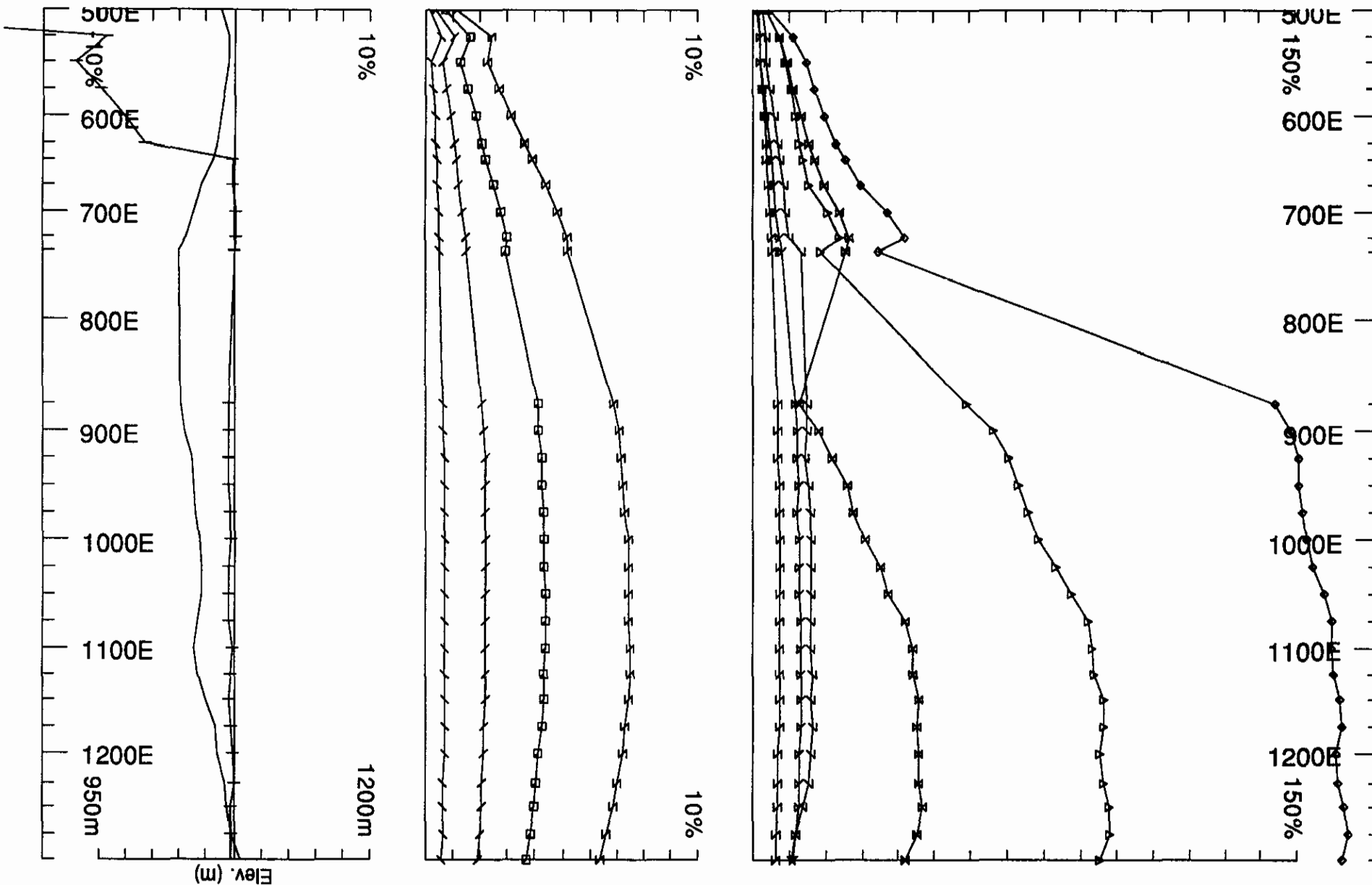
Loop: 1 Line: 28 Compt: Hz	Secondary, (Chn - Ch1)/ Hp Point Norm.at x,y,z (405325,6273015,1119) Base Freq. 30.974 Hz	UTEM Survey at: FRED 15 PROJECT For: CANAMERA GEOLOGICAL LTD. SJ GEOPHYSICS LTD.	
		Job U9604	Surveyed : 8/9/96 Reduced : 1/11/96 Plotted : 30/11/96



Loop: 1 Line: 29 Compt: Hz	Secondary, (Chn - Ch1)/ Hp Point Norm.at x,y,z (405325,6273015,1119) Base Freq. 30.974 Hz	UTEM Survey at: FRED 15 PROJECT For: CANAMERA GEOLOGICAL LTD. SJ GEOPHYSICS LTD.	Job U9604 Surveyed : 7/9/96 Reduced : 1/11/96 Plotted : 30/11/96
----------------------------------	---	---	---



Loop: 1 Line: 30 Compt: Hz	Secondary, (Chn - Ch1)/ Hp Point Norm.at x,y,z (405325,6273015,1119) Base Freq. 30.974 Hz	UTEM Survey at: FRED 15 PROJECT For: CANAMERA GEOLOGICAL LTD. SJ GEOPHYSICS LTD.		Job U9604 Surveyed : 7/9/96 Reduced : 1/11/96 Plotted : 30/11/96
----------------------------------	---	---	--	---



Loop: 1

Secondary, (Chn - Ch1)/|Hp|

UTEM Survey at: FRED 15 PROJECT

Line: 12

Contin. Norm at depth of 0 m

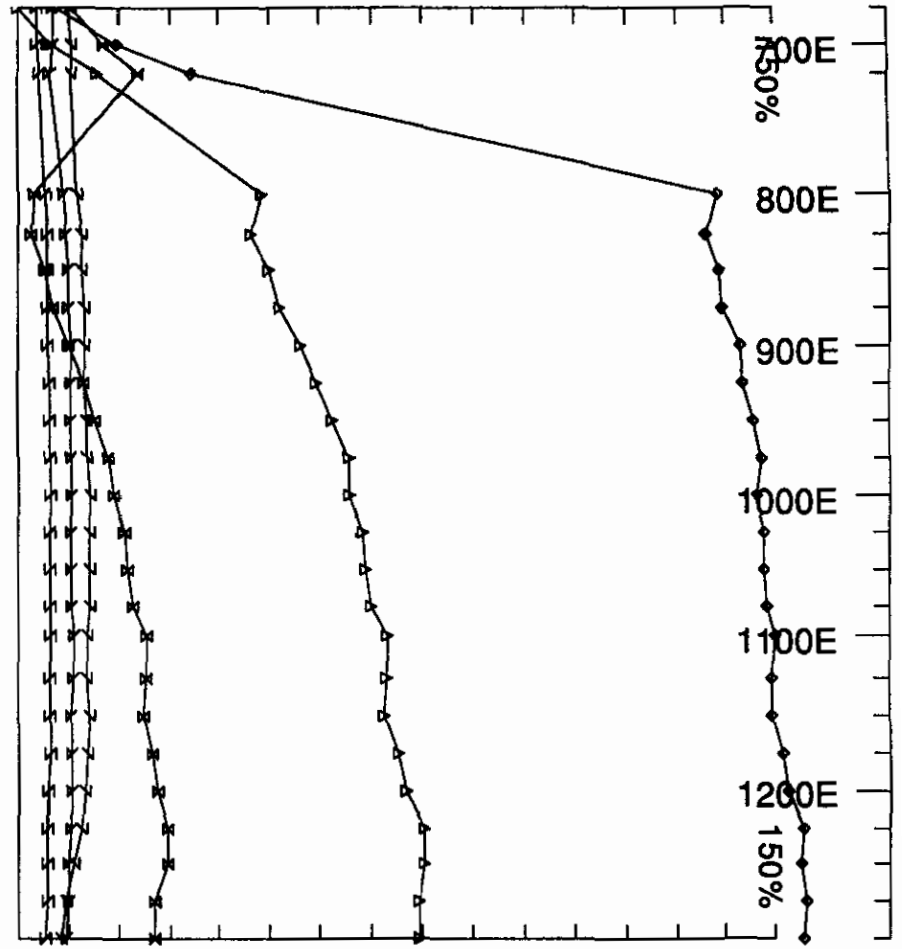
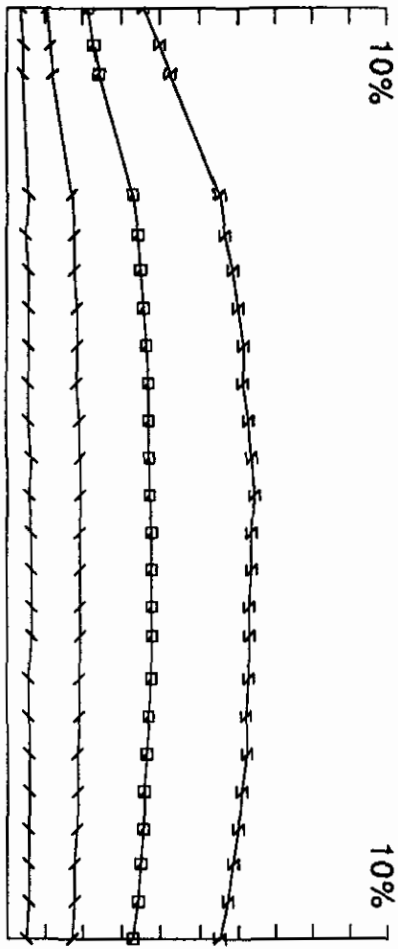
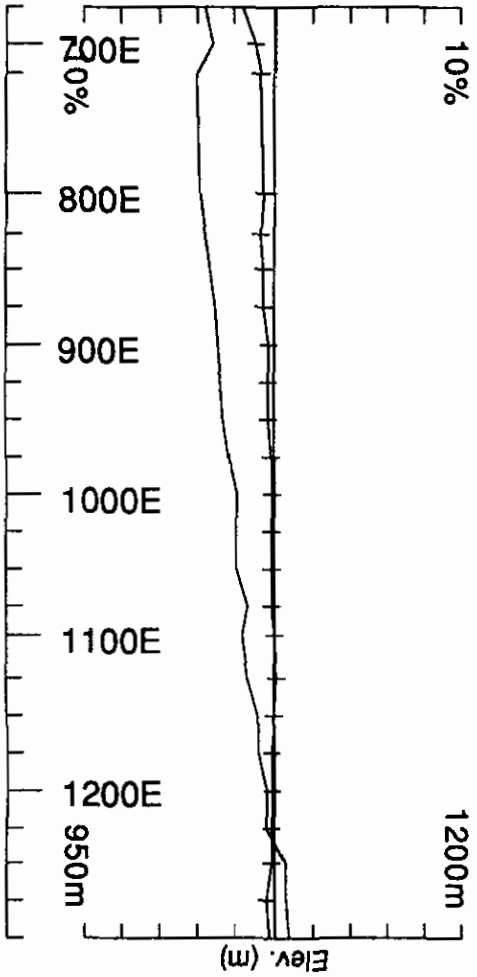
For: CANAMERA GEOLOGICAL LTD.

Compt: Hz

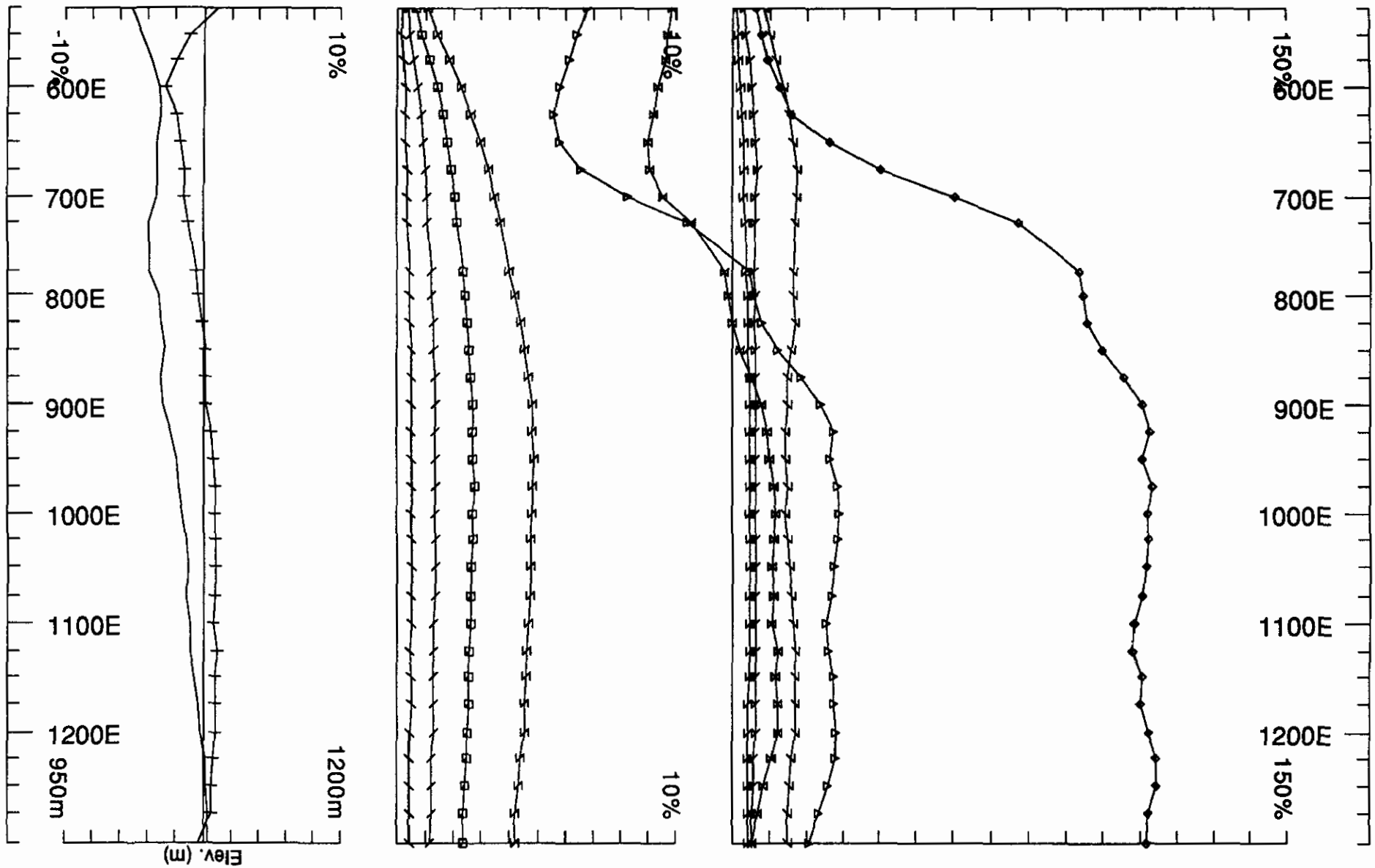
Base Freq. 30.974 Hz

SJ GEOPHYSICS LTD.

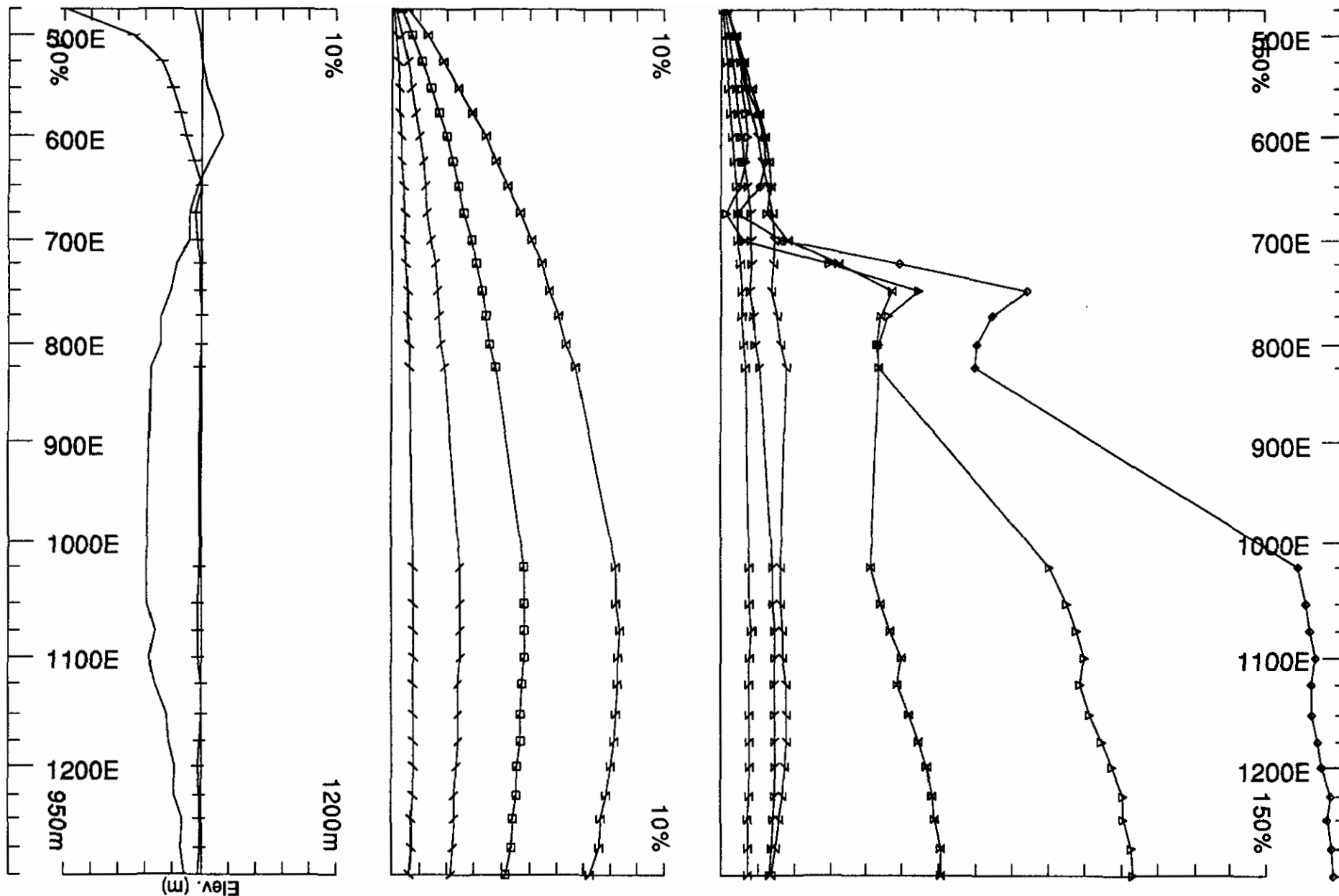
Job
U9604 Plotted : 1/12/96



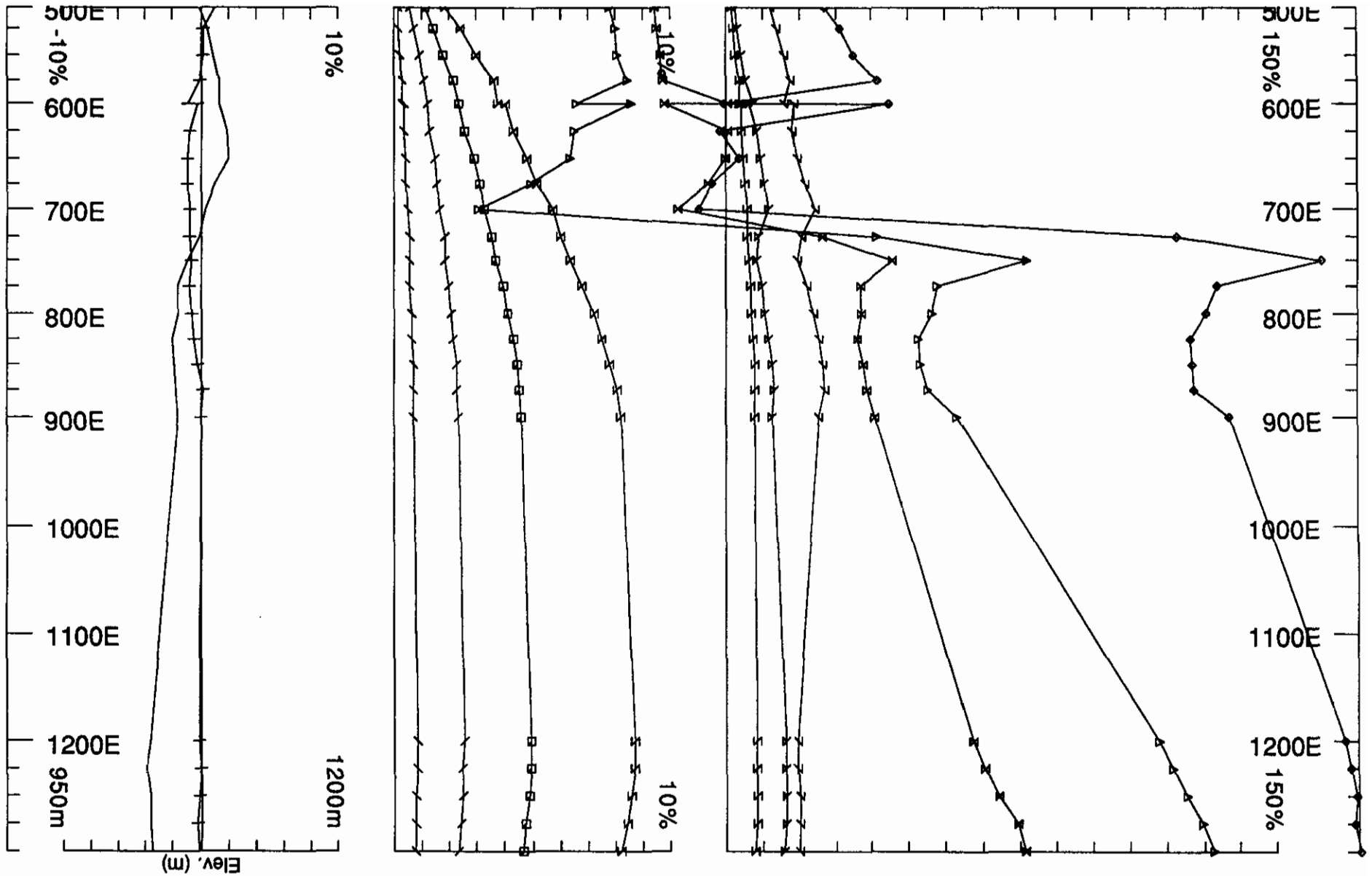
Loop: 1	Secondary, (Chn - Ch1)/ Hp	UTEM Survey at: FRED 15 PROJECT	
Line: 11	Contin. Norm at depth of 0 m	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	Job
			U9604 Plotted : 1/12/96



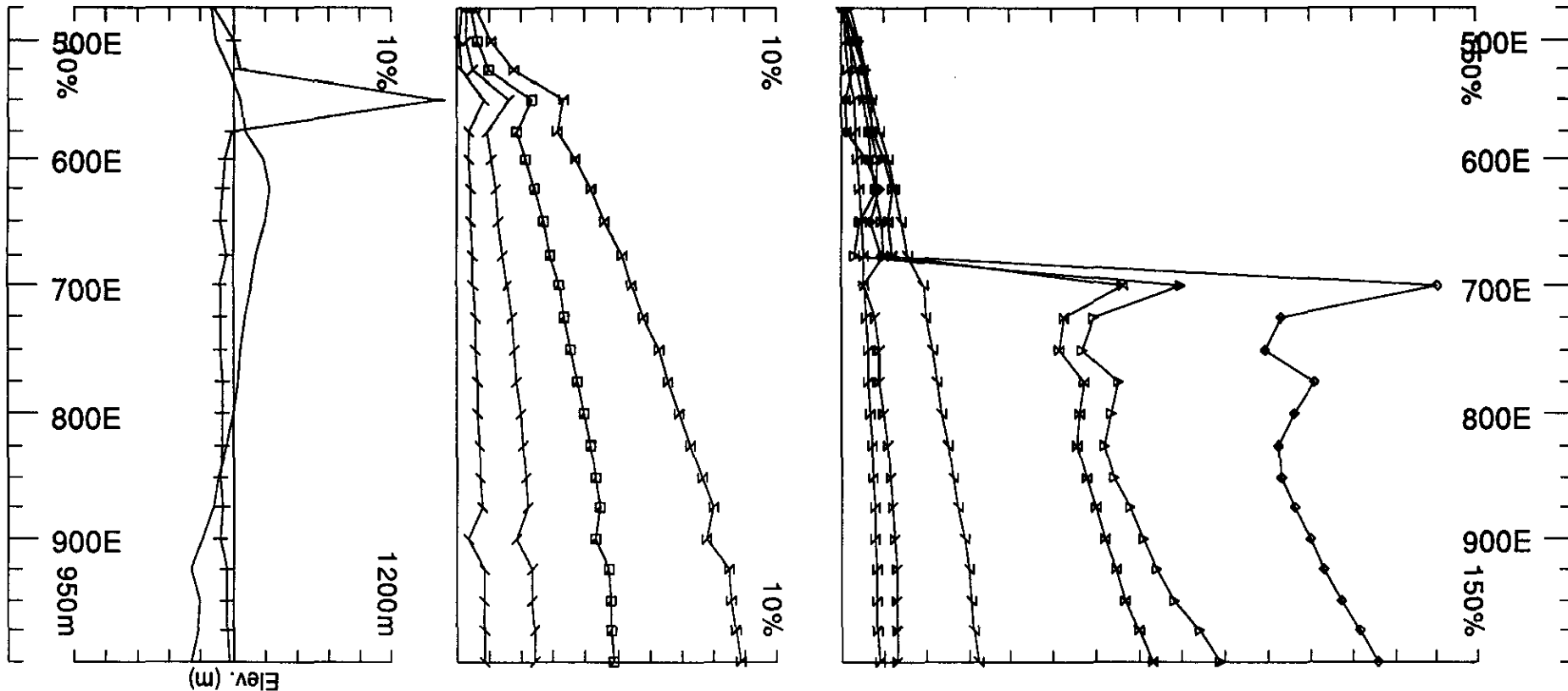
Loop: 1	Secondary, (Chn - Ch1)/ Hp	UTEM Survey at: FRED 15 PROJECT	
Line: 10	Contin. Norm at depth of 0 m	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	Job U9604
			Surveyed: 9/9/96 Reduced: 1/11/96 Plotted: 1/12/96



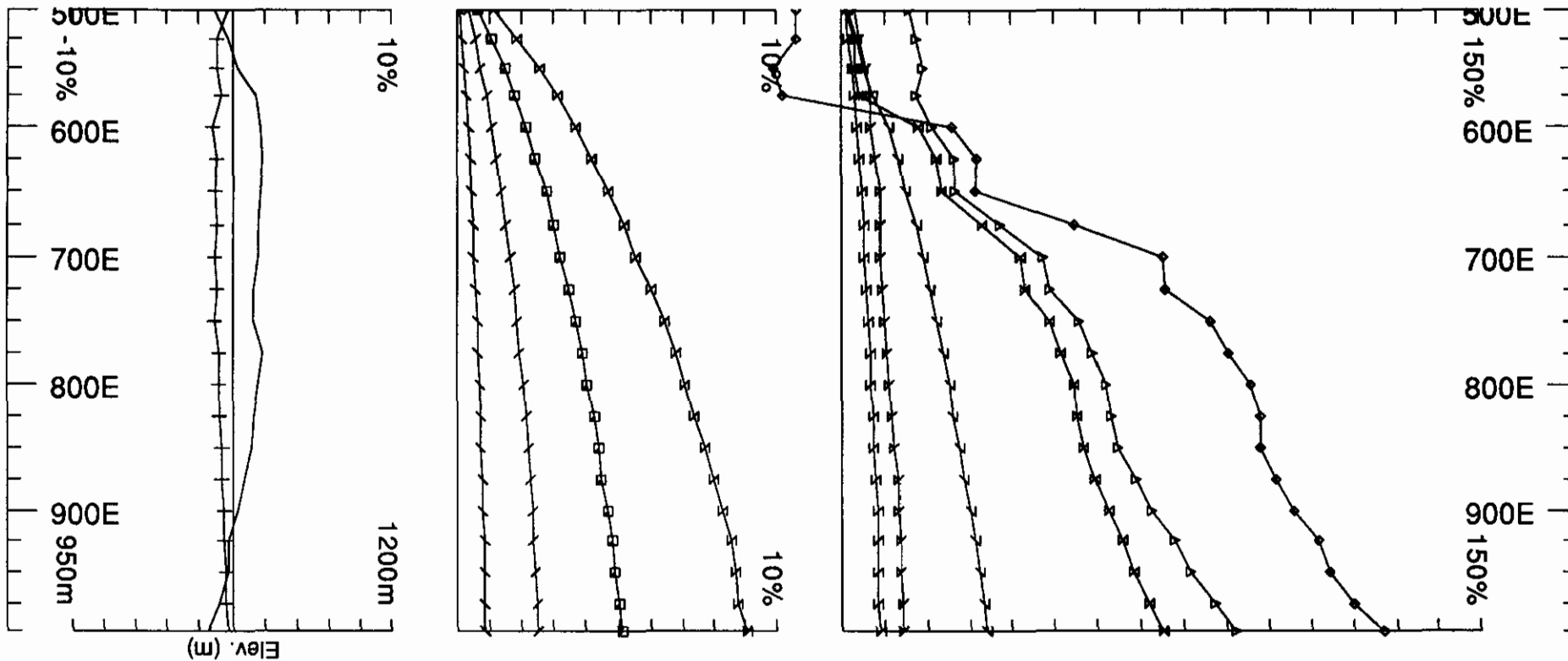
Loop: 1	Secondary, (Chn - Ch1)/ Hp	UTEM Survey at: FRED 15 PROJECT	
Line: 13	Contin. Norm at depth of 0 m	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	
		Job	Plotted : 1/12/96
		U9604	



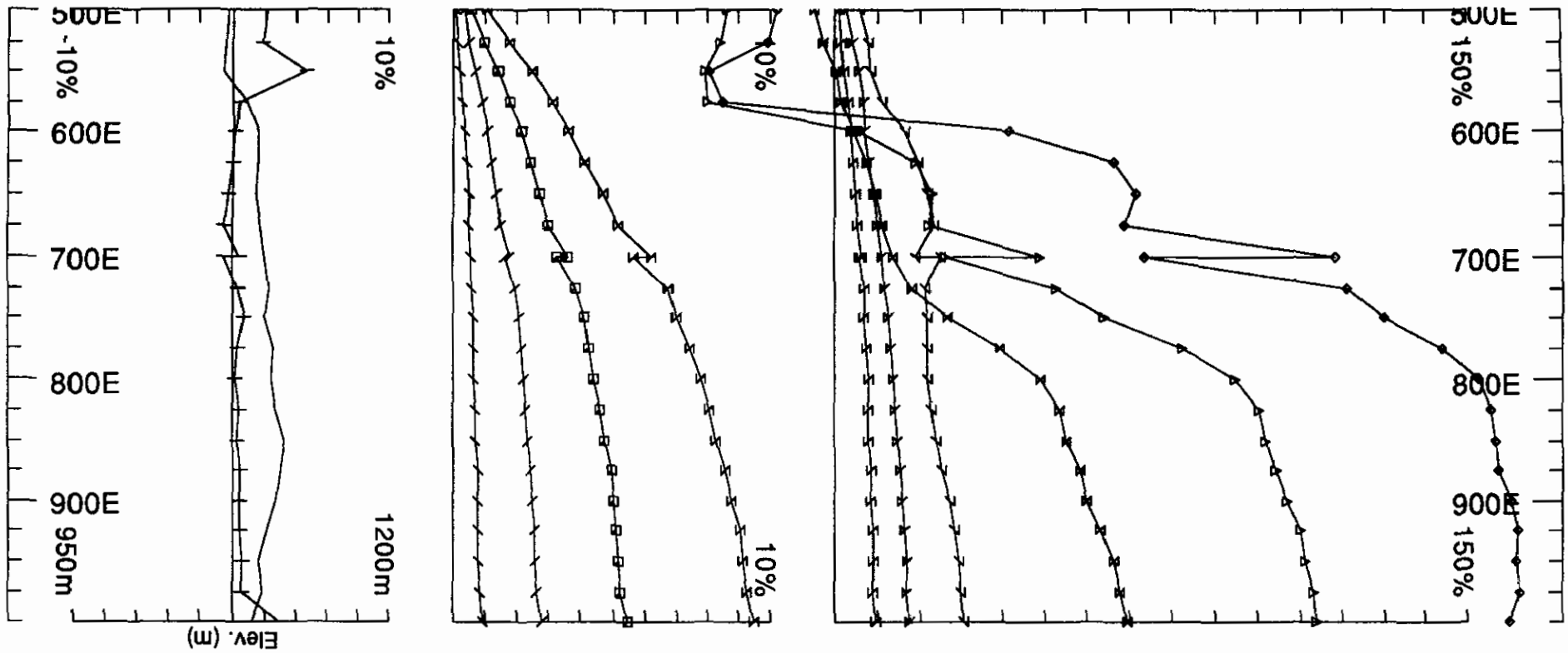
Loop: 1	Secondary, (Chn - Ch1)/ Hp	UTEM Survey at: FRED 15 PROJECT	
Line: 14	Contin. Norm at depth of 0 m	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	Job U9604 Plotted : 1/12/96



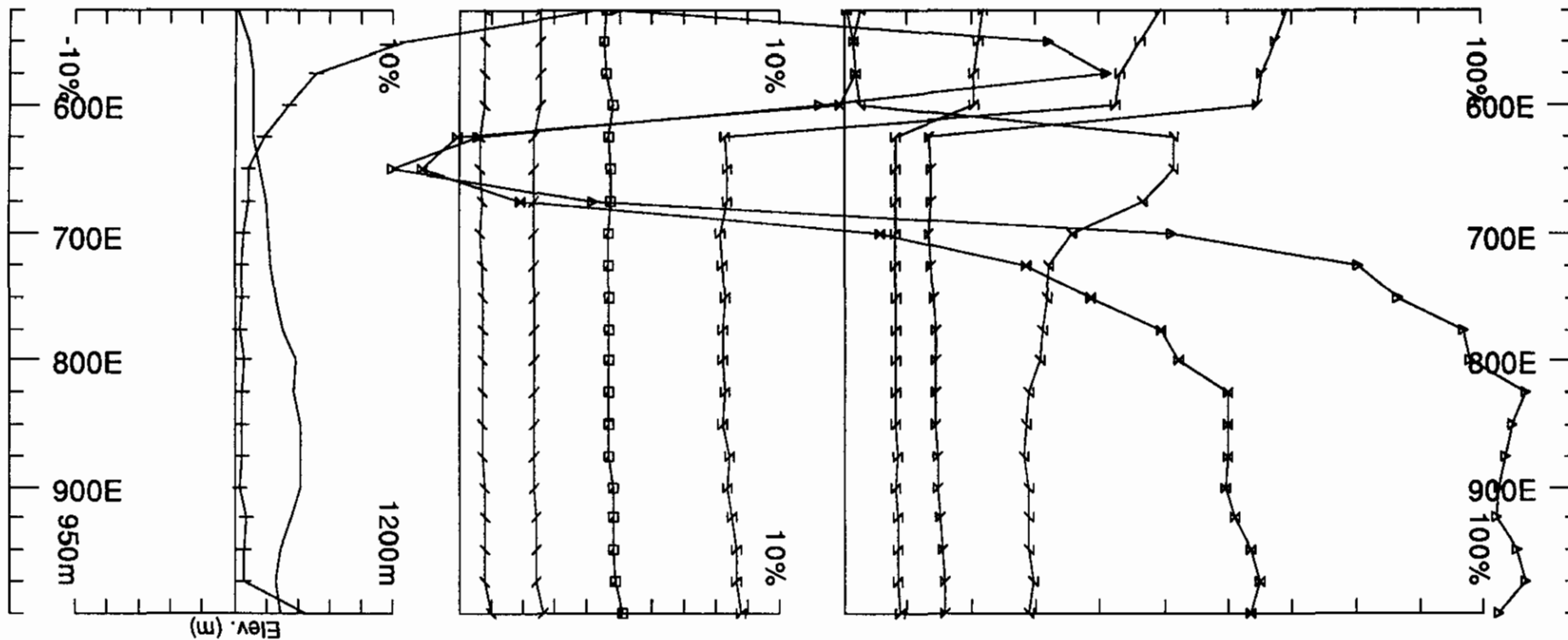
Loop: 1	Secondary, (Chn - Ch1)/ Hp	UTEM Survey at: FRED 15 PROJECT	
Line: 15	Contin. Norm at depth of 0 m	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	Job U9604 Plotted : 1/12/96



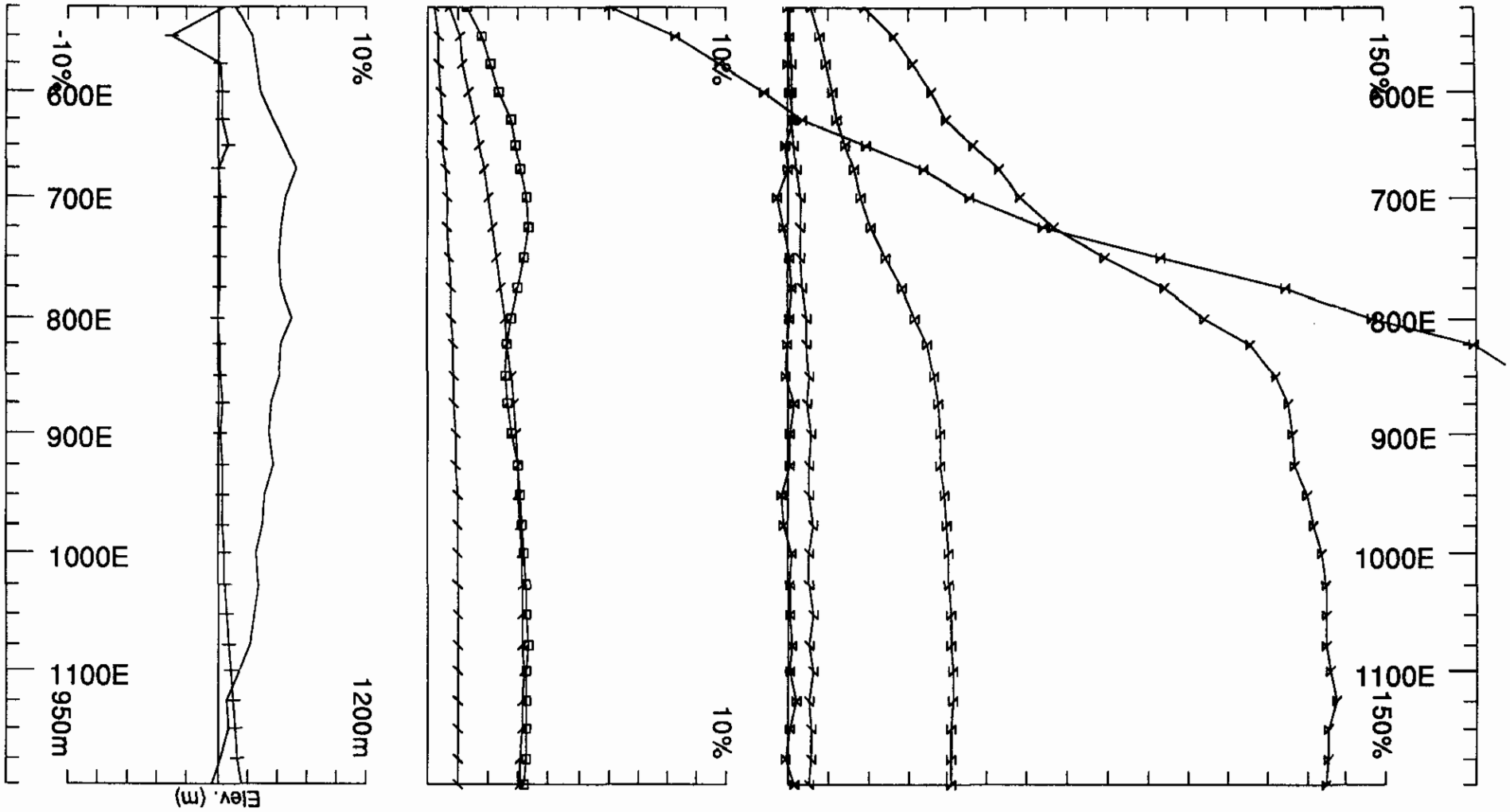
Loop: 1	Secondary, (Chn - Ch1)/ Hp	UTEM Survey at: FRED 15 PROJECT	
Line: 16	Contin. Norm at depth of 0 m	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	
		Job	U9604 Plotted : 1/12/96



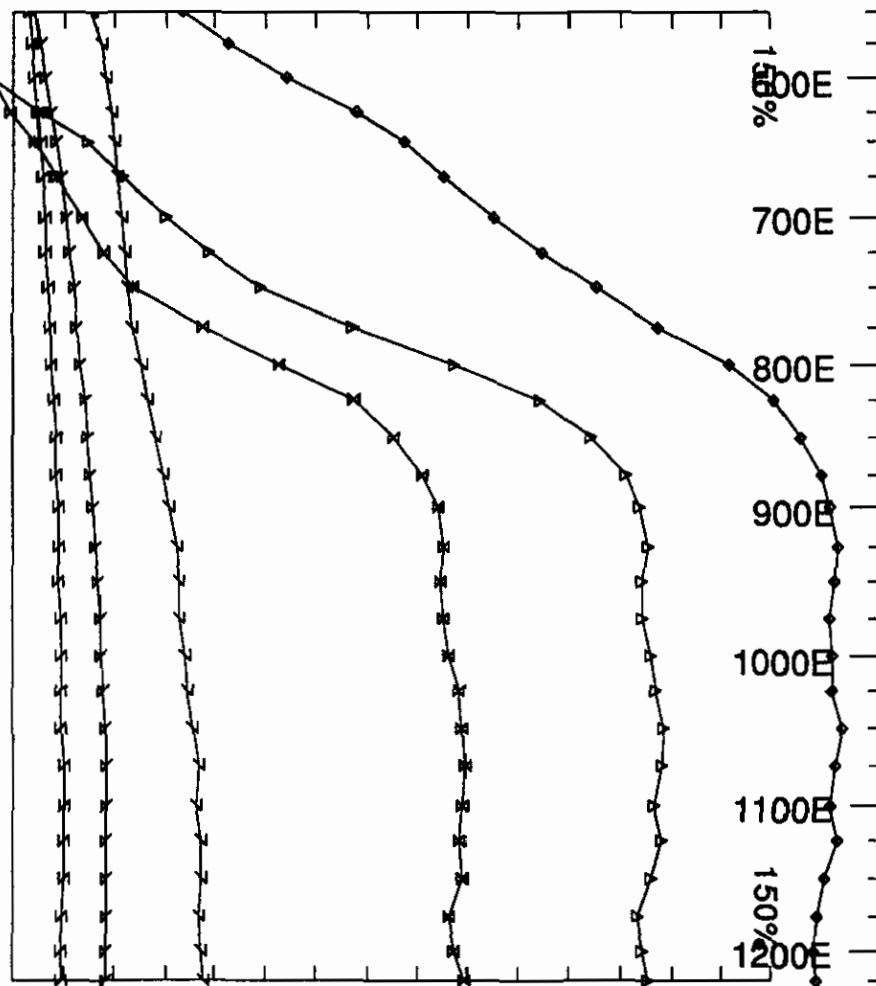
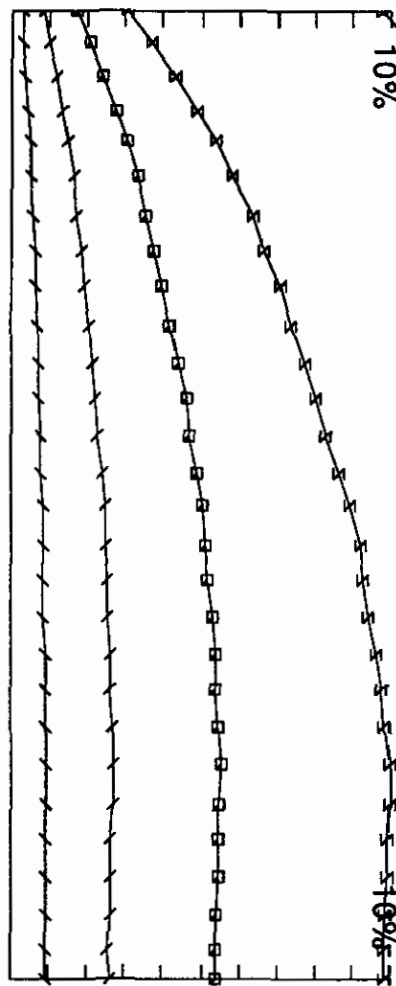
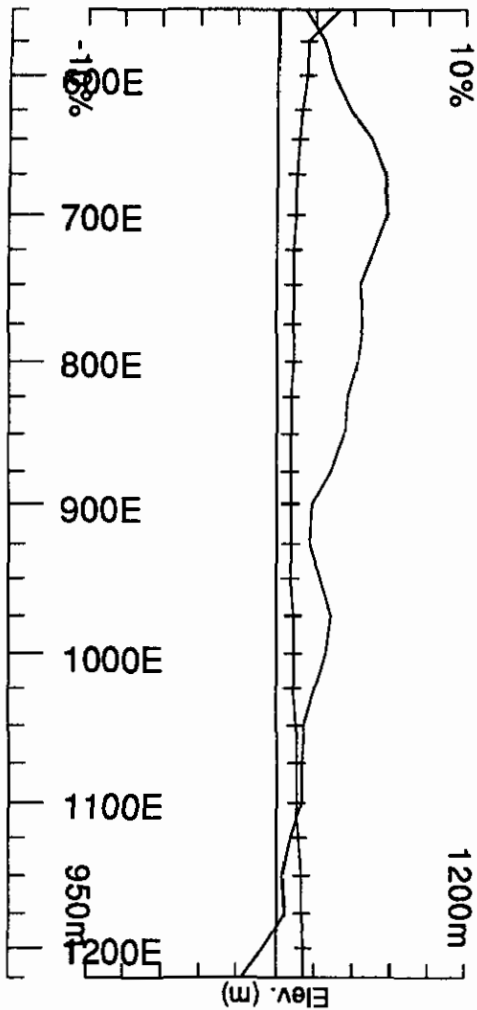
Loop: 1	Secondary, (Chn - Ch1)/ Hp	UTEM Survey at: FRED 15 PROJECT	
Line: 17	Contin. Norm at depth of 0 m	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	Job U9604 Plotted : 1/12/96



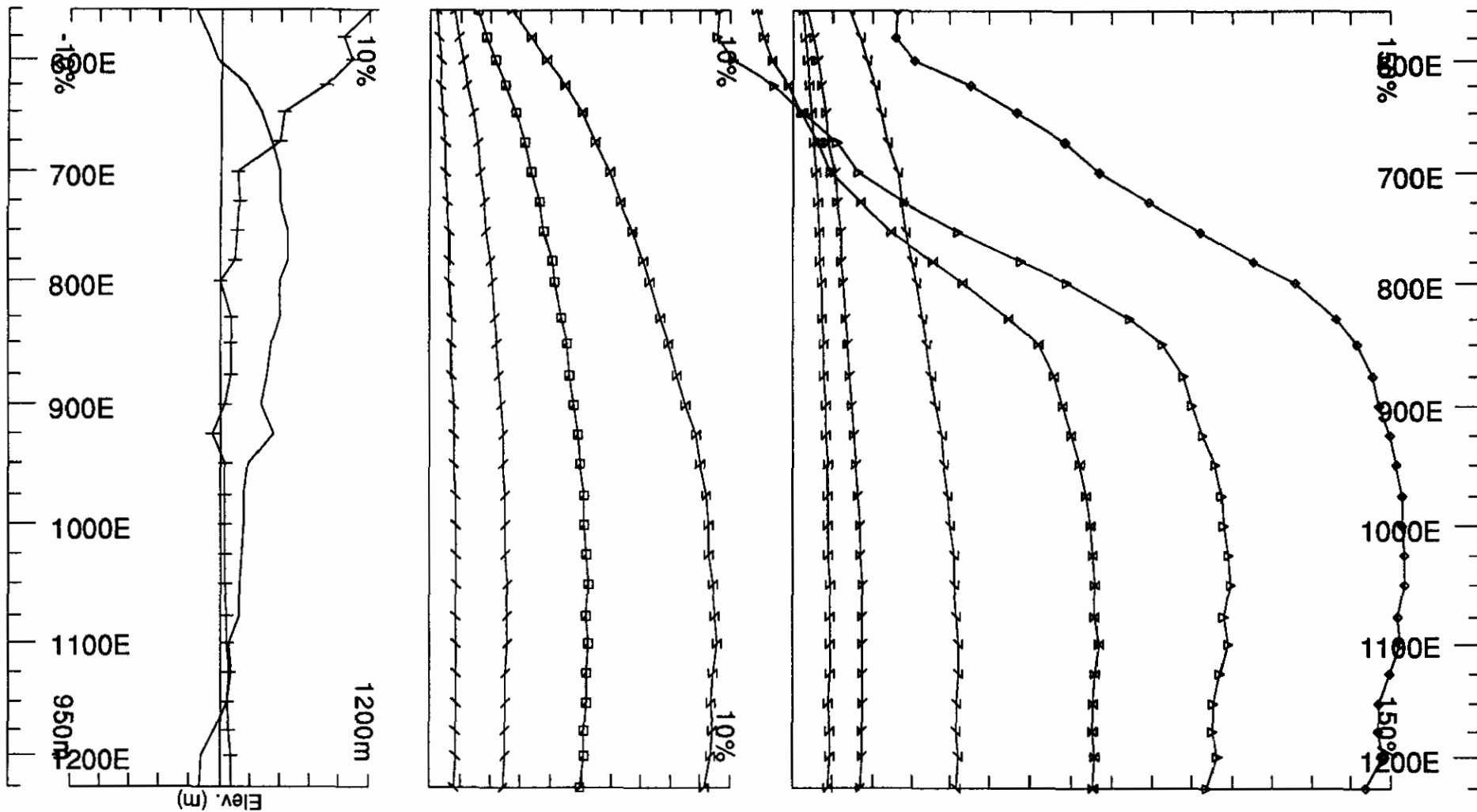
Loop: 1 Line: 18 Compt: Hz	Secondary, (Chn - Ch1)/ Hp Point Norm.at x,y,z (405325,6273015,1119) Base Freq. 30.974 Hz	UTEM Survey at: FRED 15 PROJECT For: CANAMERA GEOLOGICAL LTD. <hr/> SJ GEOPHYSICS LTD. Job U9604 Plotted : 1/12/96
----------------------------------	---	--



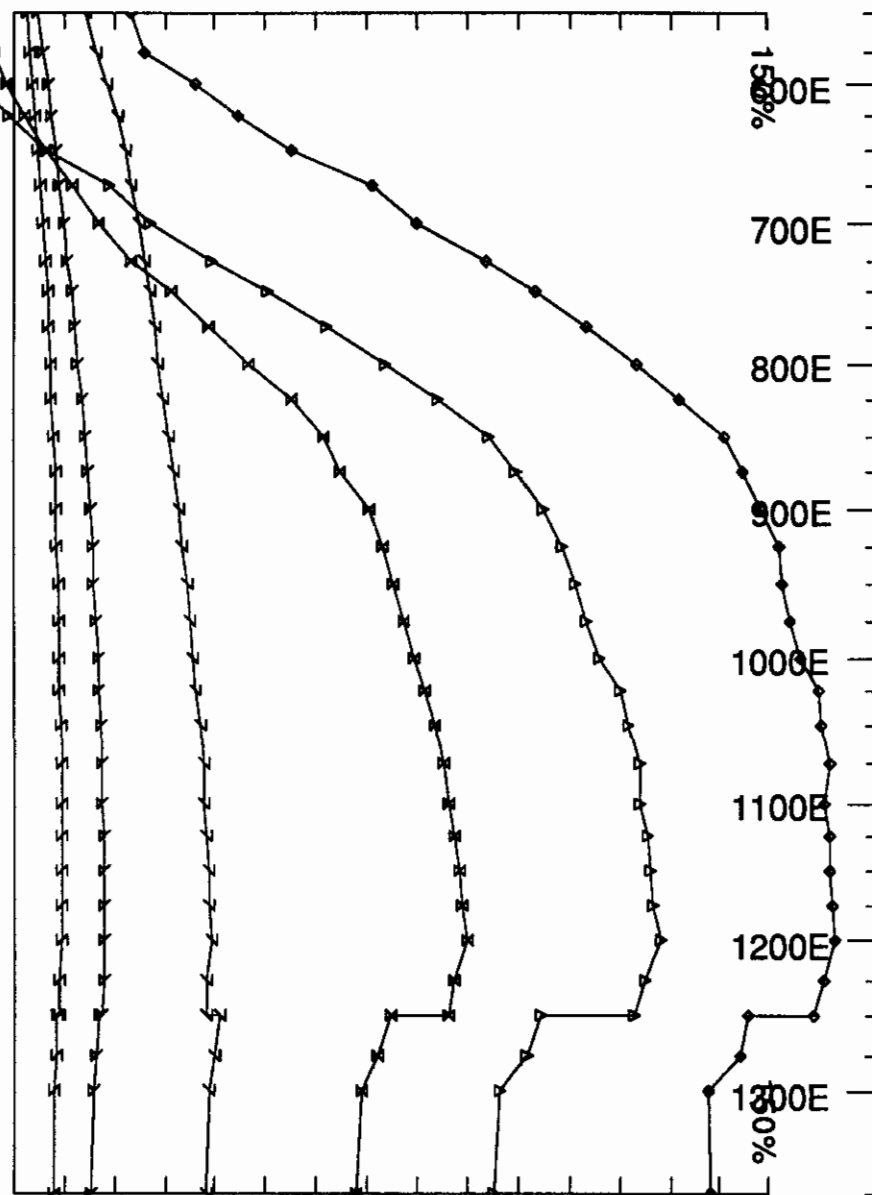
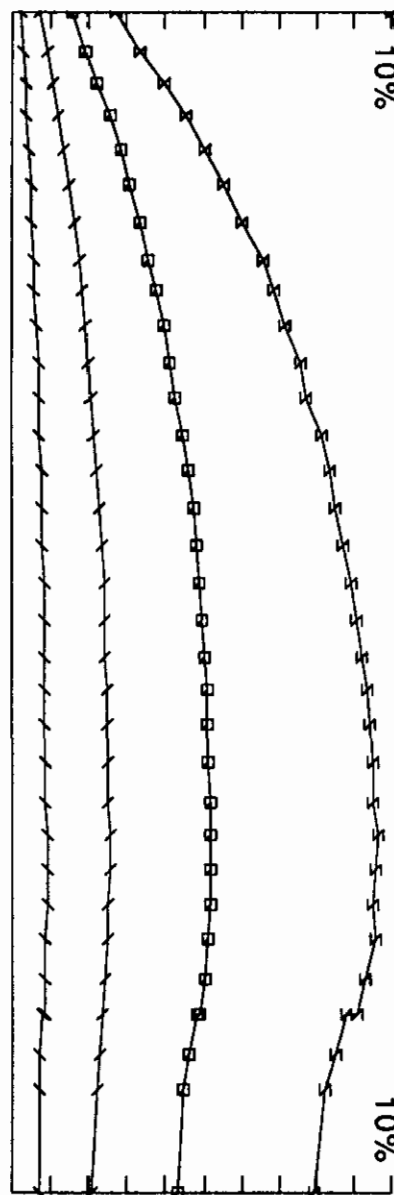
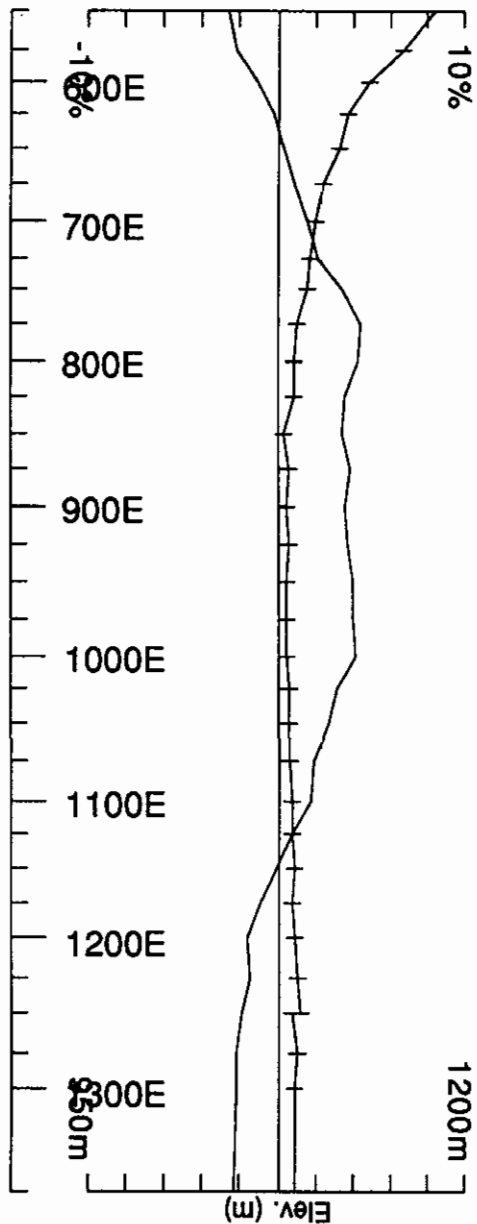
Loop: 1	Secondary, (Chn - Ch1)/ Hp	UTEM Survey at: FRED 15 PROJECT	
Line: 19	Contin. Norm at depth of 0 m	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	
		Job	U9604 Plotted : 1/12/96



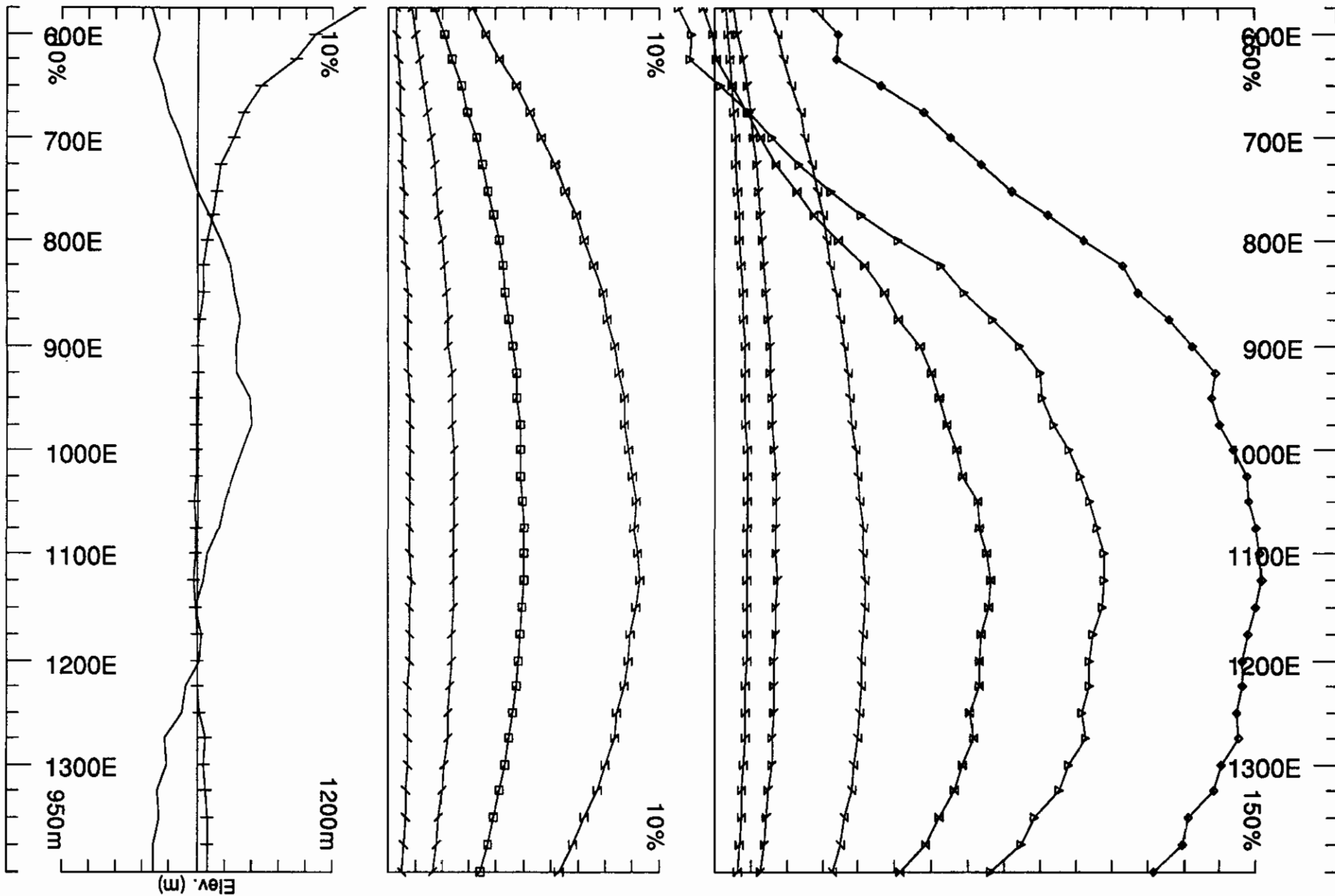
Loop: 1	Secondary, (Chn - Ch1)/ Hp	UTEM Survey at: FRED 15 PROJECT	
Line: 20	Contin. Norm at depth of 0 m	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	Job
			U9604



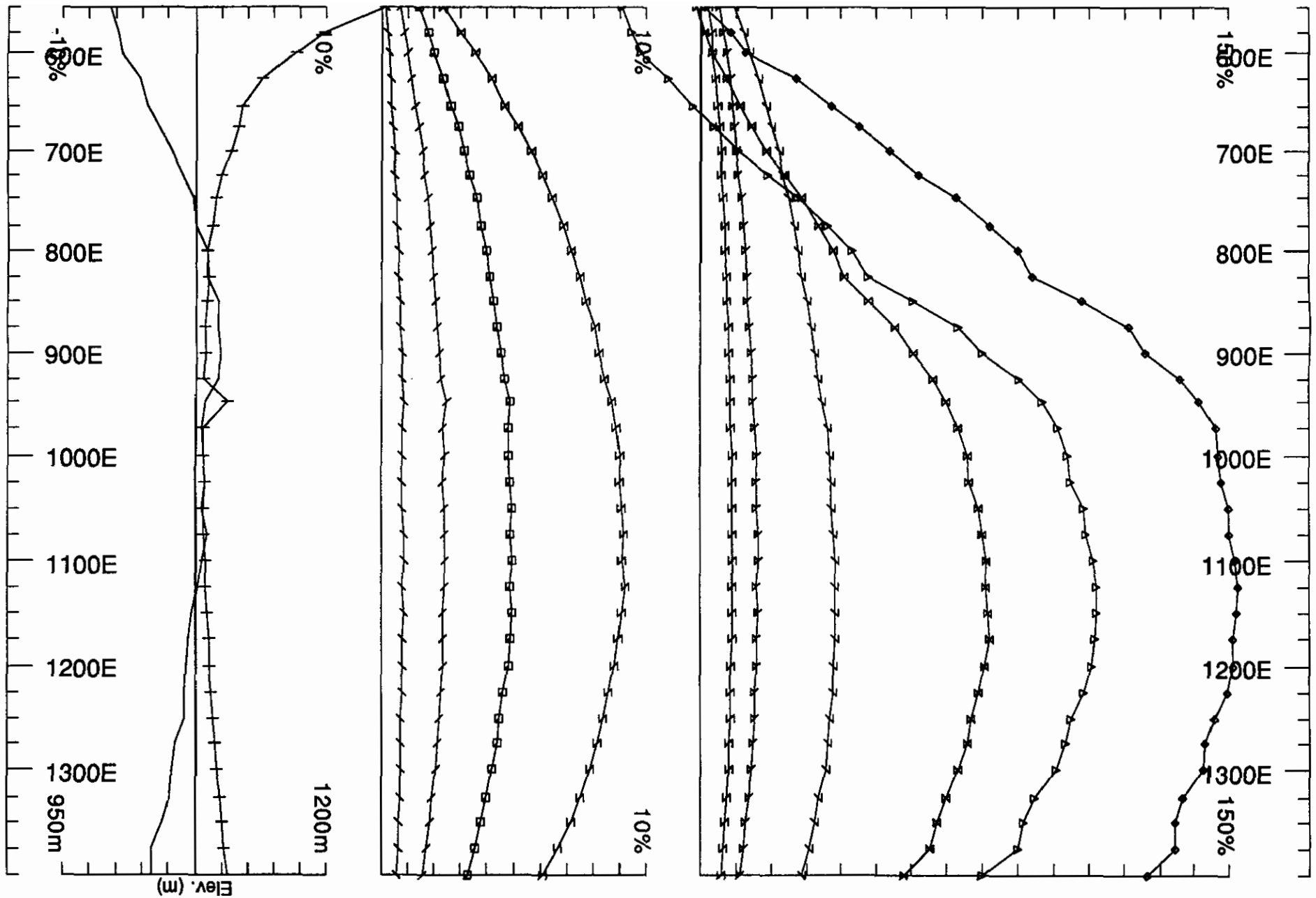
Loop: 1	Secondary, (Chn - Ch1)/ Hp	UTEM Survey at: FRED 15 PROJECT	
Line: 21	Contin. Norm at depth of 0 m	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	Job U9604 Plotted : 1/12/96



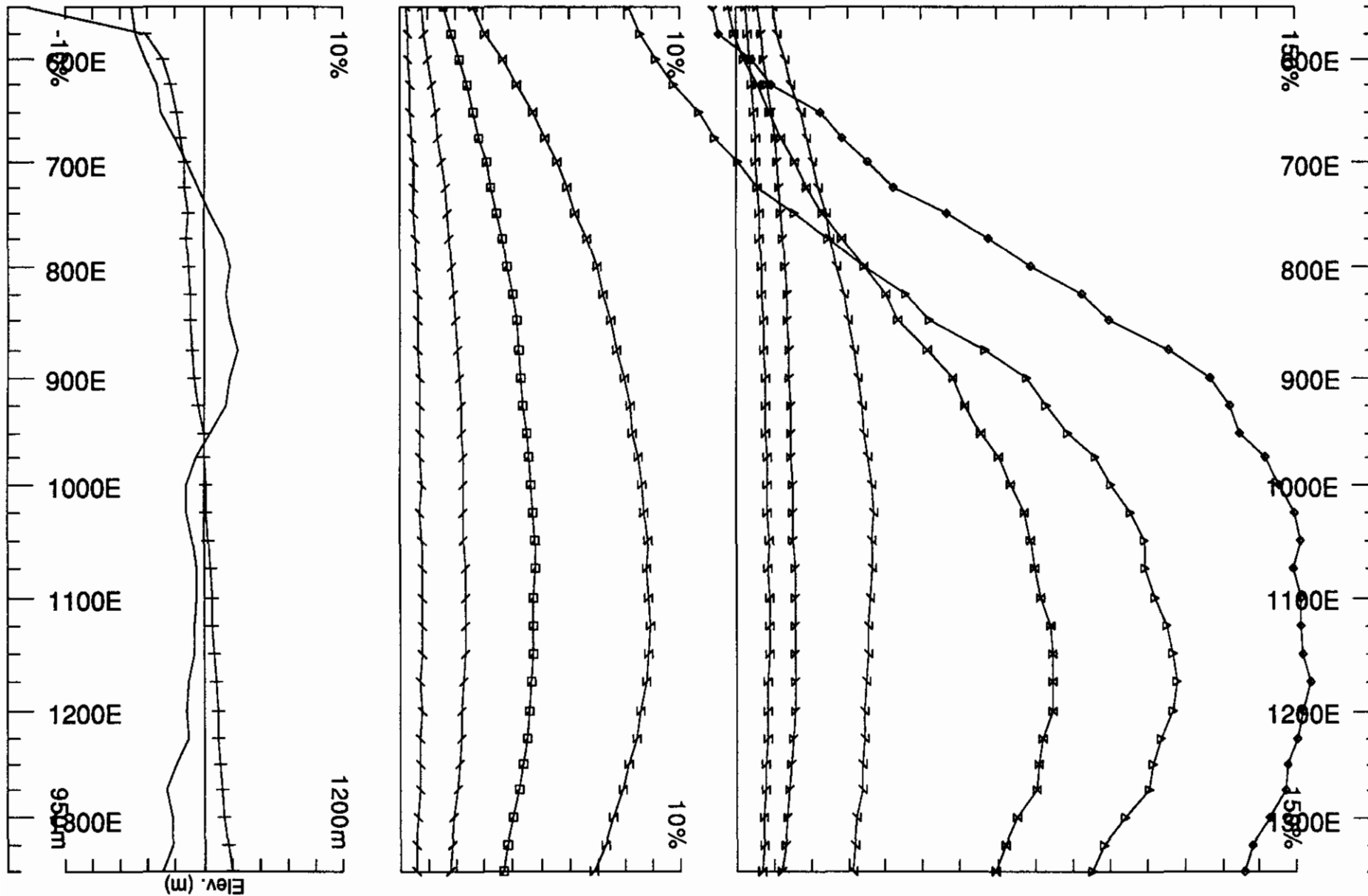
Loop: 1	Secondary, (Chn - Ch1)/ Hp	UTEM Survey at: FRED 15 PROJECT	
Line: 22	Contin. Norm at depth of 0 m	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	
		Job	Plotted : 1/12/96
		U9604	



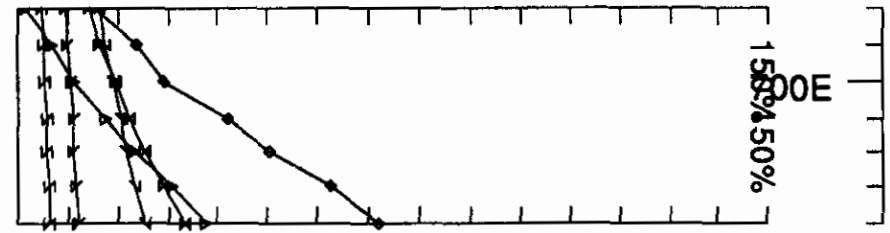
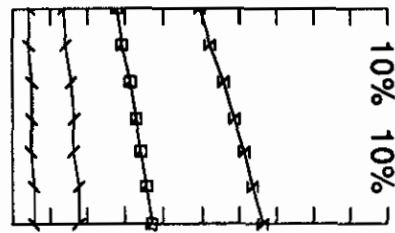
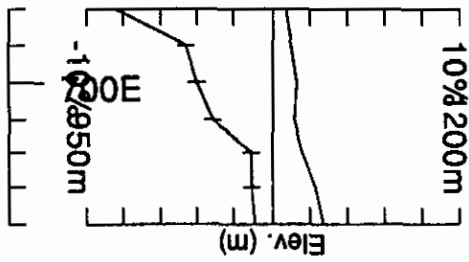
Loop: 1	Secondary, (Chn - Ch1)/ Hpl	UTEM Survey at: FRED 15 PROJECT	
Line: 23	Contin. Norm at depth of 0 m	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	Job U9604 Plotted : 1/12/96



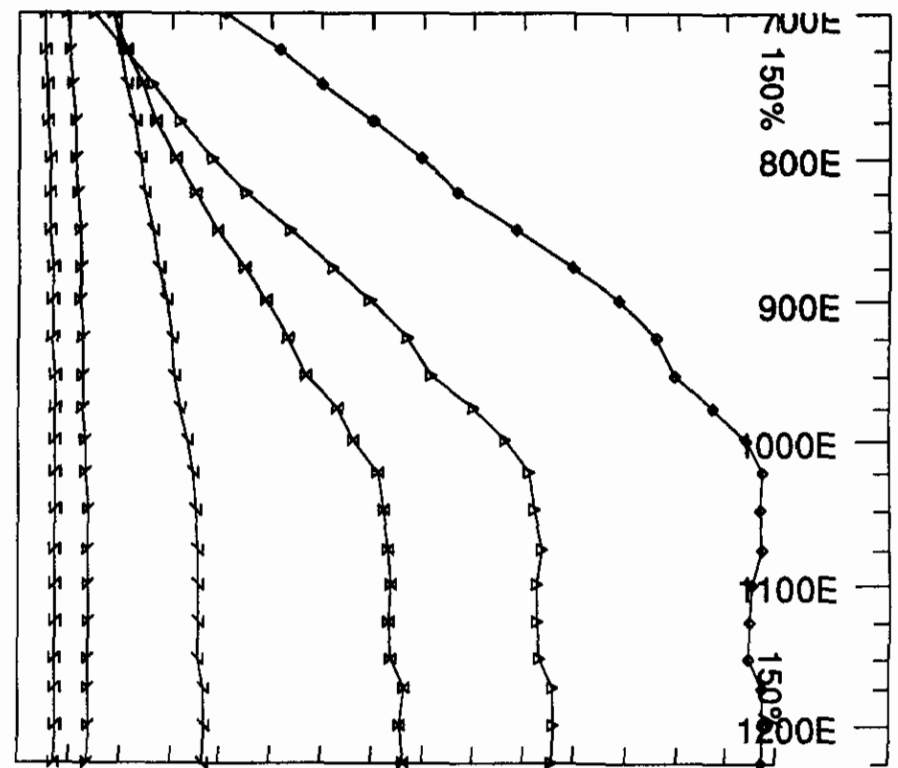
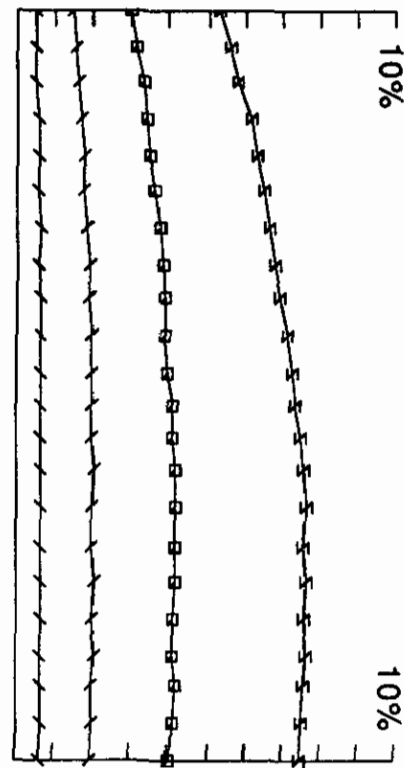
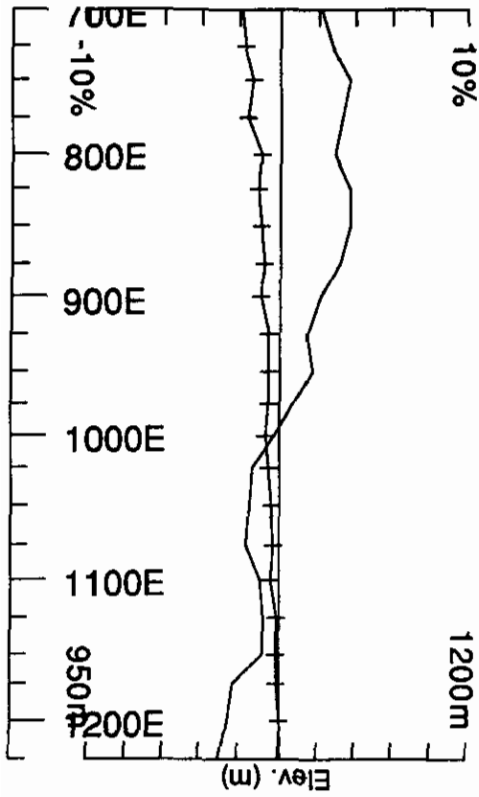
Loop: 1	Secondary, (Chn - Ch1)/ Hp	UTEM Survey at: FRED 15 PROJECT	
Line: 24	Contin. Norm at depth of 0 m	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	Job U9604
			Surveyed : 16/9/96 Reduced : 1/11/96 Plotted : 1/12/96



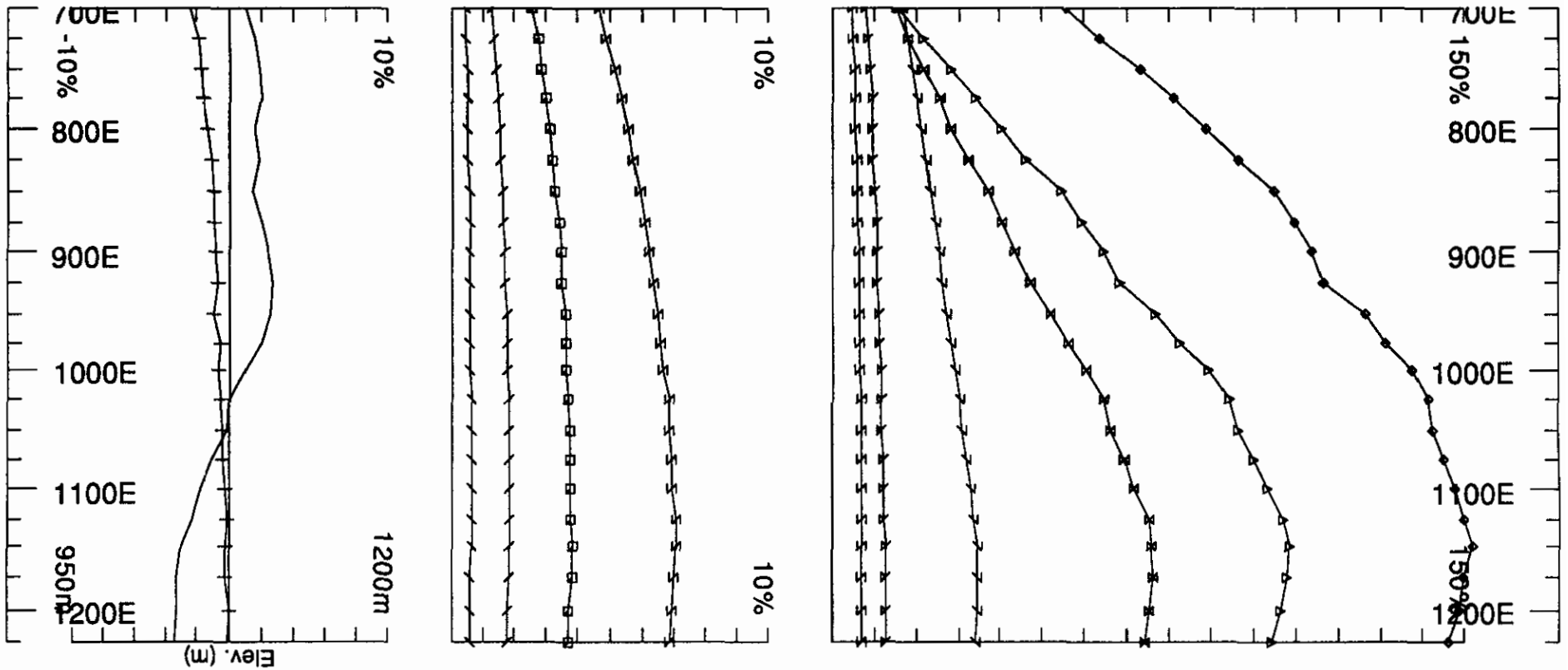
Loop: 1	Secondary, (Chn - Ch1)/ Hp	UTEM Survey at: FRED 15 PROJECT	
Line: 25	Contin. Norm at depth of 0 m	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	Job U9604
			Surveyed : 16/9/96 Reduced : 1/11/96 Plotted : 1/12/96



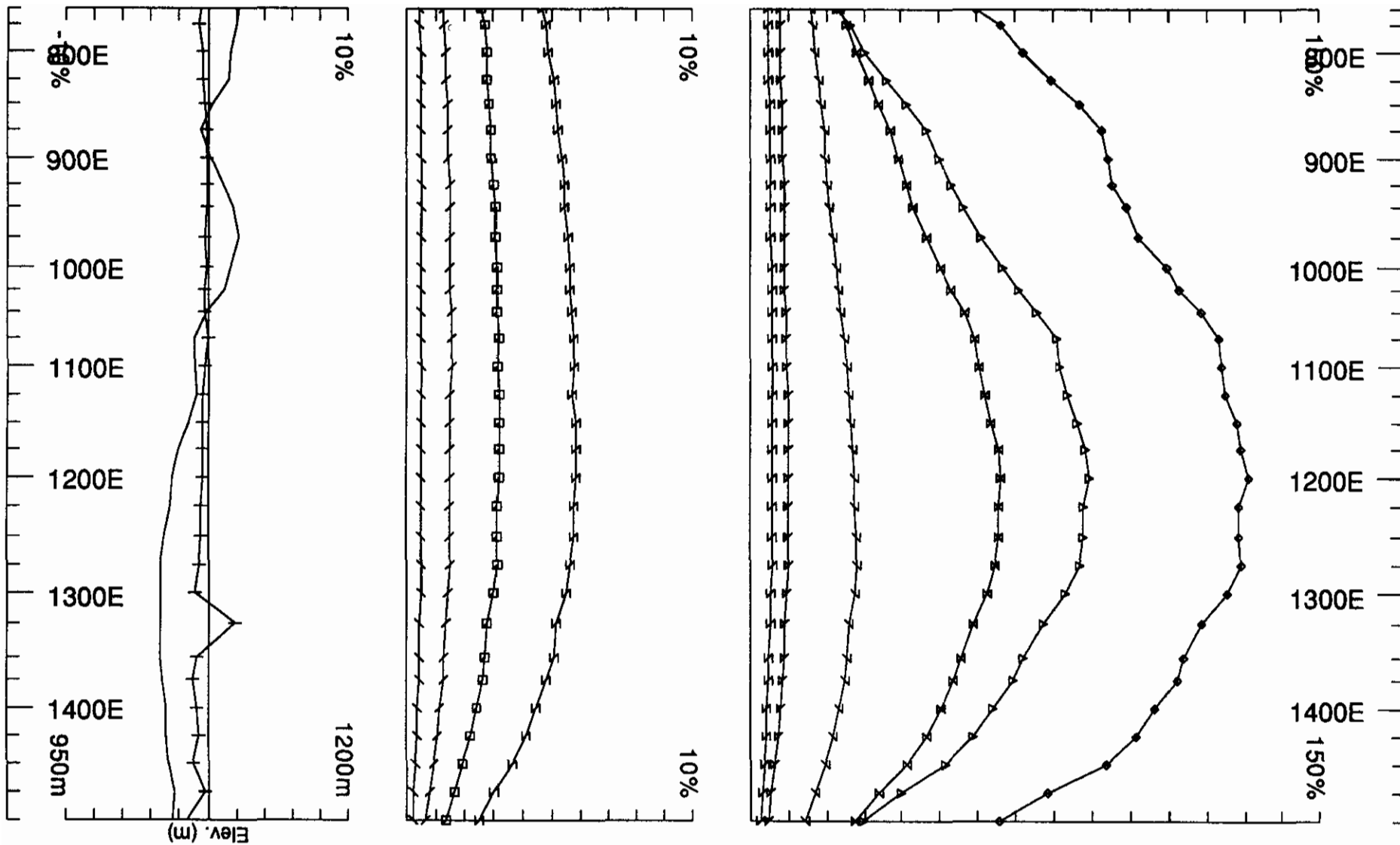
Loop: 1	Secondary, (Chn - Ch1)/ Hp	UTEM Survey at: FRED 15 PROJECT	
Line: 26	Contin. Norm at depth of 0 m	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	Job U9604 Plotted : 1/12/96



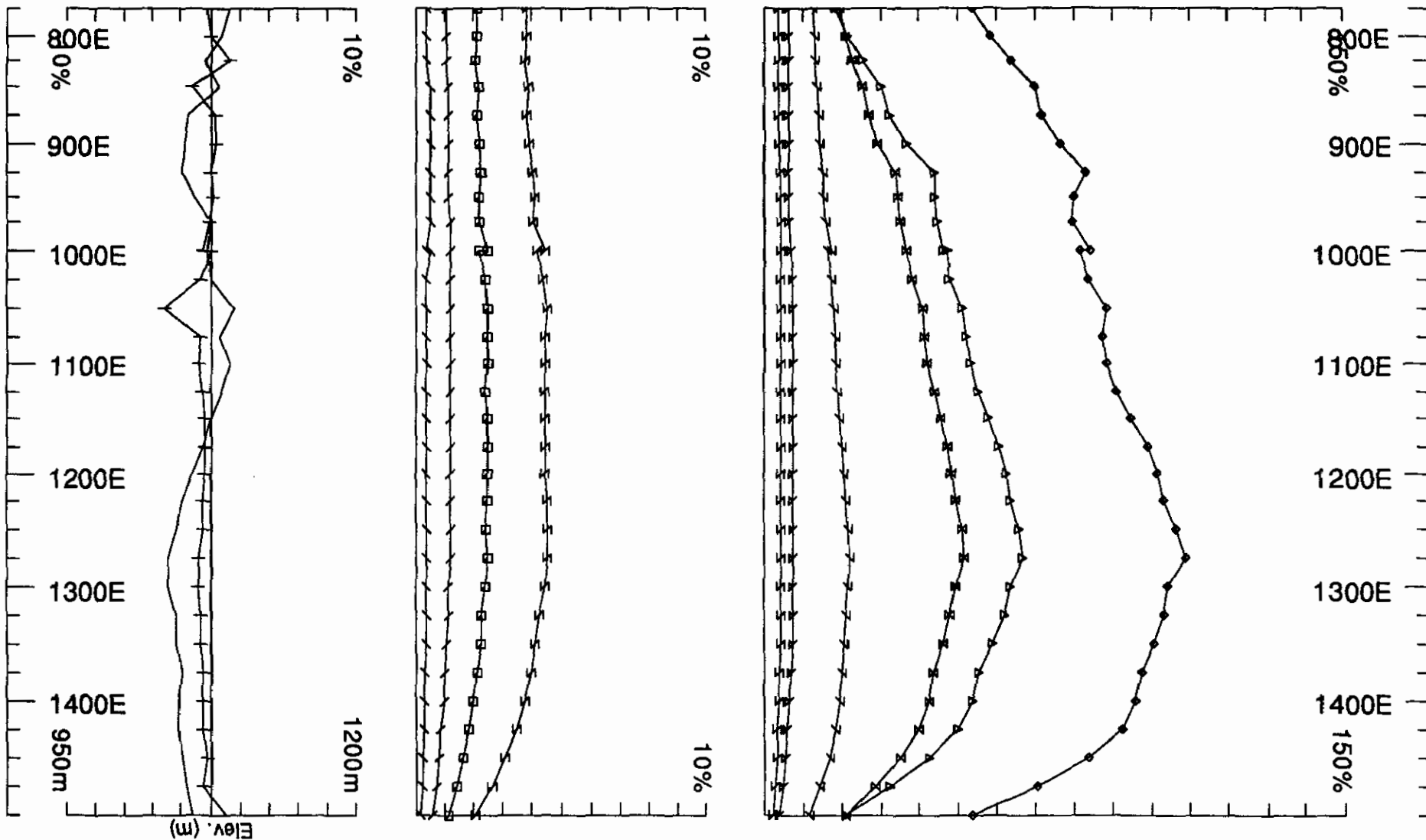
Loop: 1	Secondary, (Chn - Ch1)/ Hp	UTEM Survey at: FRED 15 PROJECT	
Line: 27	Contin. Norm at depth of 0 m	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	Job U9604
			Surveyed: 8/9/96 Reduced: 1/11/96 Plotted: 1/12/96



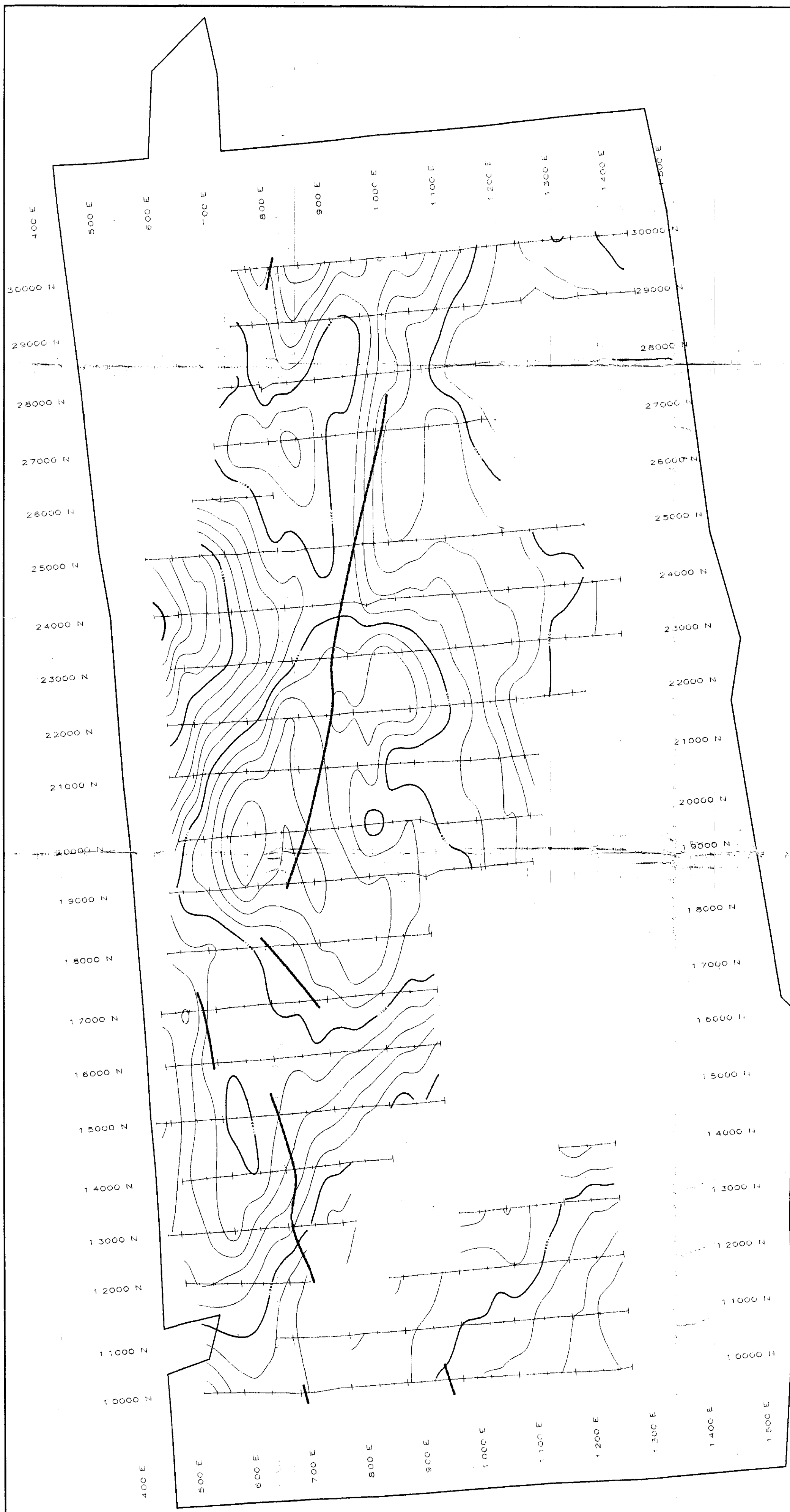
Loop: 1	Secondary, (Chn - Ch1)/ Hp	UTEM Survey at: FRED 15 PROJECT	
Line: 28	Contin. Norm at depth of 0 m	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	
		Job U9604	Surveyed : 8/9/96 Reduced : 1/11/96 Plotted : 1/12/96



Loop: 1	Secondary, (Chn - Ch1)/ Hp	UTEM Survey at: FRED 15 PROJECT	
Line: 29	Contin. Norm at depth of 0 m	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	Job U9604
			Surveyed : 7/9/96 Reduced : 1/11/96 Plotted : 1/12/96


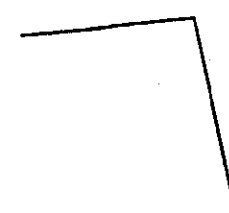



Loop: 1	Secondary, (Chn - Ch1)/ Hp	UTEM Survey at: FRED 15 PROJECT	
Line: 30	Contin. Norm at depth of 0 m	For: CANAMERA GEOLOGICAL LTD.	
Compt: Hz	Base Freq. 30.974 Hz	SJ GEOPHYSICS LTD.	Job U9604
			Surveyed: 7/9/96 Reduced: 1/11/98 Plotted: 1/12/96



LEGEND

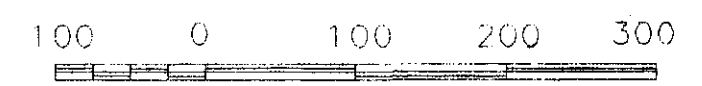
INSTRUMENTATION: TRANSMITTER: UTEM 3B
 RECEIVER: UTEM3 MODEL LW RECEIVER 2B-14

-  Elevation contours 10m
-  UTEM-3 LOOP
-  Weak anomaly possibly contact

CANAMERA GEOLOGICAL LTD.
FRED 15 CREEK PROJECT

COMPILATION MAP

SKEENA M.D., B.C. N.T.S.:104B/10E



SCALE IN METRES

Appendix 2

Cost Statements

The following eight cost statements are for the 1996 exploration program. The statements which apply to the work filed in this volume of the report are statements 7 and 8.

Cost Statement 1

The following cost statement is for work done on Aftom 10, 11, 13, and Hags 5. Structural mapping was performed by Simon Haynes, and soil sampling was performed by Ayisha Yeow and Jason Shaw during Aug. 12 to Aug.28, 1996.

Aftom 10,11,13, Hags 5	Amount	Cost
S. Haynes	7 days @ \$700/day	\$4,900.00
Soil Samplers	2 days @ \$250/day	\$500.00
Supervisor	6.6 days @ \$350/day	\$2,310.00
Helicopter	3.5 hrs @ \$750/hr	\$2,625.00
Vehicle	4 days @ \$90/day	\$360.00
Field Consumables	9 days @ \$25/day	\$225.00
Radios	9 days @ \$70/day	\$630.00
Camp Costs	15.6 days @ \$125/day	\$1,950.00
Soil Samples	82 samples @\$25/sample	\$2,050.00
Maps and Reproduction		\$50.00
Reporting	3.5 days @ \$700/day	\$2,450.00
Cad	1 days @ \$200/day	\$200.00
Travel		\$150.00
Freight		\$100.00
	<u>TOTAL</u>	<u>\$18,500.00</u>

Cost Statement 2

Simon Haynes performed structural mapping on the Rags 1-4 and Hob 10-15 on Aug. 12 to Aug. 28, 1996.

Rags 1-4,Hop 10-15	Amount	Cost
S. Haynes	4.5 days @ \$700/day	\$3,150.00
Supervisor	5.3 days @ \$350/day	\$1,855.00
Helicopter	2.3 hrs @ \$750/hr	\$1,725.00
Vehicle	2 days @ \$90/day	\$180.00
Field Consumables	4.5 days @ \$25/day	\$112.50
Radios	4.5 days @ \$70/day	\$315.00
Camp Costs	11.5 days @ \$125/day	\$1,437.50
Maps and Reproduction		\$50.00
Reporting	3 days @ \$700/day	\$2,100.00
Cad	1 days @ \$200/day	\$200.00
Travel		\$150.00
Freight		\$100.00
	<u>TOTAL</u>	<u>\$11,375.50</u>

Cost Statement 3

Aftom 1, 2, 3, Hob 3, 4, 8, 8.5, 9, Mojo 2 were structurally mapped by Simon Haynes and soil sampled by Ayisha Yeow, Jason Shaw, and Jason Attard during August 12 to 28 1996.

Aftom 1, 2, 3, Hob 3, 4, 8, 8.5, 9, Mojo 2	Amount	Cost
S. Haynes	5.5 days @ \$700/day	\$3,850.00
Soil Samplers	3 days @ \$250/day	\$750.00
Supervisor	6.1 days @ \$350/day	\$2,135.00
Helicopter	3.8 hrs @ \$750/hr	\$2,850.00
Vehicle	3 days @ \$90/day	\$270.00
Field Consumables	8.5 days @ \$25/day	\$212.50
Radios	8.5 days @ \$70/day	\$595.00
Camp Costs	12.6 days @ \$125/day	\$1,575.00
Soil Samples	99 samples @ \$25/sample	\$2,475.00
Maps and Reproduction		\$50.00
Reporting	3.5 days @ \$700/day	\$2,450.00
Cad	1 days @ \$200/day	\$200.00
Travel		\$150.00
Freight		\$100.00
	<u>TOTAL</u>	<u>\$17,662.50</u>

Cost Statement 4

Cost statement for geologic mapping done by Greg Burroughs and Dane Bridge and soil samples taken by Jason Shaw and Ayisha Yeow. Work was performed on Aug. 26, 24,27 1996.

Aftom 5	Amount	Cost
G. Burroughs	1 days @ \$350/day	\$350.00
D. Bridge	1 days @ \$450/day	\$450.00
Soil Samplers	3 days @ \$250/day	\$750.00
Supervisor	1.8 days @ \$350/day	\$630.00
Helicopter	2.1 hrs @ \$750/hr	\$1,575.00
Vehicle	1 days @ \$90/day	\$90.00
Field Consumables	5 days @ \$25/day	\$125.00
Radios	5 days @ \$70/day	\$350.00
Camp Costs	7 days @ \$125/day	\$875.00
Soil Samples	51 samples @ \$25/sample	\$1,275.00
Maps and Reproduction		\$50.00
Reporting	1 days @ \$350/day	\$350.00
Cad	1 days @ \$200/day	\$200.00
Travel		\$150.00
Freight		\$100.00
	<u>TOTAL</u>	<u>\$7,320.00</u>

Cost Statement 5

Cost statement for geological mapping done by Greg Burroughs and Dane Bridge and soils sampling done by Jason Gallagher on Aftom 7 and Aftom 16 claims. Work was done Aug. 26, 29, 30, and Sept. 3, 1996.

Aftom 7,16	Amount	Cost
G. Burroughs	1 days @ \$350/day	\$350.00
D. Bridge	1 days @ \$450/day	\$450.00
Soil Samplers	2 days @ \$250/day	\$500.00
Pad Building	1 days @ \$500/day	\$500.00
Supervisor	2.8 days @ \$350/day	\$980.00
Helicopter	2 hrs @ \$750/hr	\$1,500.00
Vehicle	2 days @ \$90/day	\$180.00
Field Consumables	5 days @ \$25/day	\$125.00
Radios	5 days @ \$70/day	\$350.00
Camp Costs	5 days @ \$125/day	\$625.00
Soil Samples	52 sample @ \$25/sample	\$1,300.00
Maps and Reproduction		\$50.00
Reporting	1 days @ \$250/day	\$350.00
Cad	1 days @ \$200/day	\$200.00
Travel		\$150.00
Freight		\$100.00
	<u>TOTAL</u>	<u>\$7,710.00</u>

Cost Statement 6

Cost statement for geologic mapping by Greg Burroughs and soil sampling by Jason Attard was performed on the Dup 9 group. Work was done during Aug. 13 to Aug. 22.

Dup 9, Noot 5	Amount	Cost
G. Burroughs	5.5 days @ \$350/day	\$1,925.00
Soil Samplers	3.5 days @ \$250/day	\$875.00
Supervisor	3.5 days @ \$350/day	\$1,225.00
Helicopter	3.1 hrs @ \$750/hr	\$2,325.00
Vehicle	1 days @ \$90/day	\$90.00
Field Consumables	9 days @ \$25/day	\$225.00
Radios	9 days @ \$70/day	\$630.00
Camp Costs	9 days @ \$125/day	\$1,125.00
Soil Samples	111 samples @ \$25/sample	\$2,775.00
Maps and Reproduction		\$50.00
Reporting	1 days @ \$350/day	\$350.00
Cad	1 days @ \$200/day	\$200.00
Travel		\$150.00
Freight		\$100.00
	<u>TOTAL</u>	<u>\$12,045.00</u>

Cost Statement 7

Cost statement for Fred 15 group. Geological mapping by Greg Burroughs and Dane Bridge, soil sampling done by Jason Gallagher, surveying of the cut grid was done by Fred Kaiser and Jason Scoffings, Line cutting by M.F.H. Contracting, UTEM geophysics by SJ Geophysics Ltd. All work done during Aug 11-Sept 16.

Fred 15, PMAC 1-10	Amount	Cost
G. Burroughs	18 days @ \$350/day	\$6,300.00
D. Bridge	4 days @ \$450/day	\$2,000.00
Soil Sampler	9 days @ \$250/day	\$2,250.00
Supervisor	9 days @ \$350/day	\$3,150.00
Geophysics (2)	7 days @ \$1850/day	\$12,950.00
Geophysics Mob\De		\$2,500.00
Linecutting (2)	23 days @ \$525/day	\$12,075.00
Surveyors (2)	18 days @ \$600/day	\$10,800.00
Helicopter	31.7 hrs @ \$750/hr	\$23,775.00
Vehicle	10 days @ \$90/day	\$900.00
Field Consumables	136 days @ \$25/day	\$3,400.00
Radios	136 days @ \$70/day	\$9,520.00
Camp Costs	136 days @ \$125/day	\$17,000.00
Soil Samples	290 samples @ \$25/sample	\$7,250.00
Maps and Reproduction		\$50.00
Reporting	15 days @ \$350/day	\$5,250.00
Cad	3 days @ \$200/day	\$600.00
Travel		\$150.00
Freight		\$100.00
	<u>TOTAL</u>	<u>\$120,020.00</u>

Cost Statement 8

Cost statement for the PMAC group. UTEM Geophysics was done by SJ Geophysics Ltd. from Sept. 15 to Sept. 17, 1996.

Fred 15, PMAC 1- 10 , Noot 3	Amount	Cost
Supervisor	3 days @ \$350/day	\$1,050.00
Geophysics (2)	3 days @ \$1850/day	\$5,550.00
Helicopter	3.6 hrs @ \$750/hr	\$2,700.00
Vehicle	1 days @ \$90/day	\$90.00
Radios	6 days @ \$70/day	\$420.00
Camp Costs	9 days @ \$125/day	\$1,125.00
	<u>TOTAL</u>	<u>\$12,185.00</u>

Appendix 4

Eskay Rock Samples

09-Dec-96

Number	Claim Nam	Grid N	Grid E	Rockname	Comments
56811	DUP 9	3+60 N	0+05 E	Epiclastic	Sample of epiclastic in area with soil anomalies.
56812	DUP 9	2+95 N	0+40 W	Siltstone	Possible sub-crop of fine grained silts with vf dissem. py and others.
56813	DUP 9	2+50 N	0+20 W	Aphyric felsic rock	Felsic volcanic with a high amount of dark sed. fragments
56814	DUP 9	0+10 S	3+95 W	Mud/siltstone	Black-grey mud-silt from fold nose. Weak fracturing and minor qtz veinlets
56815	DUP 9	4+95 S	2+85 W	Rhyolite	Accumulated from 3 massive rhyolite boulders. VFG pyrite in minor clots and fracture filling.
56816	DUP 9	4+95 S	2+85 W	Rhyolite	Multiple massive rhyolite boulders with vfg py. One boulder appears strained with py along fractures.
56810	FRED 15	13+92 N	8+02 E	Fragmental felsic volcanic	
56817	FRED 15	18+07 N	9+62 E	Dacite/ Rhyolite	Black/ grey matrix dacite/rhyolite bx with up to 5% py mostly constrained to matrix
56818	FRED 15	21+43 N	6+55 E	Siltstone	Siltstone layer in andesite flows.
56819	FRED 15	20+83 N	7+00 E	Rhyolite	Gossanous boulder of probable rhyolite. Strong fracturing with 5% sulphides.
56820	FRED 15	22+72 N	13+00 E	Rhyolite	Resample in area of 3517. Black matrix rhyolite.
56821	FRED 15	22+72 N	13+00 E	Mud/siltstone	Mud/ siltstone in contact with 56820. Also contains 2-3% vfg py.
56822	FRED 15	20+62 N	8+05 E	Dacite	Boulders of brecciated amygdaloidal dacite. All from source in the hill. Possibly some large boulder altered with 2-3% fg py. Zoning in larger clasts seen.
56823	FRED 15	8+10 N	20+78 E	Felsic breccia	Rhyolite frag. in slightly darker groundmass. Few exotic clasts. 2-5% fg py.
56824	FRED 15	19+60 N	8+45 E	Rhyolite	Outcrop of black rhyolite with minor light clasts. 1-5% py. Some is vfg.
56825	FRED 15	19+02 N	8+56 E	Rhyolite	Rhyolite fragments with up to 15% py in matrix.

Number	Claim Nam	Grid N	Grid E	Rockname	Comments
56826	FRED 15	19+50 N	9+65 E	Felsic breccia	Heterolithic Dac/Rhy Bx. Clasts and matrix vary with trace to 10% py.
56827	FRED 15	15+06 N	6+79 E	Rhyolite	Sample of Rhyolite frag that appears sheared (?) with qtz and sericite (?) and 2-5% py along fractures.

Appendix 5



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: CANAMERA GEOLOGICAL LTD.
ATTN: DAVID AWRAM
220 CAMBIE ST., SUITE 650
VANCOUVER, BC
V6B 2M9

Project: FD6CA0052
Comments: ATTN:DAVID BRIDGE

Page Number :1-A
Total Pages :1
Certificate Date: 26-SEP-96
Invoice No. : I9632283
P.O. Number : 8029
Account : KBOA

CERTIFICATE OF ANALYSIS A9632283

SAMPLE	PREP CODE	Au-AA ppb	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
56810	205 226	< 5	< 0.2	1.92	10	110	< 0.5	< 2	5.62	< 0.5	17	36	72	5.10	< 10	< 1	0.18	< 10	1.58	1375
56811	205 226	< 5	< 0.2	1.85	6	220	0.5	< 2	0.01	< 0.5	< 1	40	1	1.02	< 10	< 1	0.29	40	1.28	35
56812	205 226	< 5	0.2	1.04	28	100	0.5	< 2	0.10	< 0.5	4	97	11	2.95	< 10	< 1	0.19	10	0.56	125
56813	205 226	< 5	< 0.2	0.89	6	60	< 0.5	< 2	0.01	< 0.5	< 1	117	1	1.16	< 10	< 1	0.09	20	0.59	50
56814	205 226	< 5	1.0	1.17	22	160	< 0.5	< 2	0.06	< 0.5	7	96	45	4.39	< 10	< 1	0.13	< 10	0.30	505
56815	205 226	< 5	< 0.2	0.27	26	90	< 0.5	< 2	0.22	< 0.5	4	98	4	2.57	< 10	< 1	0.15	10	0.01	240
56816	205 226	< 5	< 0.2	0.22	24	120	< 0.5	< 2	0.13	< 0.5	3	104	4	2.28	< 10	< 1	0.13	10	0.01	125
56817	205 226	< 5	0.2	1.71	12	60	0.5	< 2	0.47	< 0.5	9	61	17	9.80	< 10	< 1	0.29	20	0.60	260
56818	205 226	< 5	< 0.2	3.90	8	1810	1.0	< 2	2.99	2.5	27	75	33	6.53	10	1	1.10	40	3.05	1015
56819	205 226	< 5	< 0.2	1.91	12	70	< 0.5	< 2	1.29	< 0.5	16	27	4	8.22	< 10	< 1	0.19	10	0.50	770
56820	205 226	5	0.4	0.96	60	360	< 0.5	< 2	3.24	0.5	4	22	15	1.98	< 10	< 1	0.33	10	0.71	785
56821	205 226	95	3.0	1.32	188	170	< 0.5	< 2	1.03	1.0	5	38	26	3.35	< 10	< 1	0.26	< 10	0.54	285

CERTIFICATION:

Hart Bechler



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: CANAMERA GEOLOGICAL LTD.
ATTN: DAVID AWRAM
220 CAMBIE ST., SUITE 650
VANCOUVER, BC
V6B 2M9

Project: FD6CA0052
Comments: ATTN:DAVID BRIDGE

Page Number :1-B
Total Pages :1
Certificate Date: 26-SEP-96
Invoice No. :I9632283
P.O. Number :8029
Account :KBOA

CERTIFICATE OF ANALYSIS A9632283

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
56810	205	226	1	0.05	14	1770	6	< 2	7	288	< 0.01	< 10	< 10	104	< 10	66
56811	205	226	6	0.03	1	140	18	2	< 1	10	< 0.01	< 10	< 10	5	< 10	20
56812	205	226	4	0.04	7	470	30	6	1	7	< 0.01	< 10	< 10	14	< 10	74
56813	205	226	1	0.03	1	30	12	< 2	< 1	3	< 0.01	< 10	< 10	1	< 10	28
56814	205	226	6	0.05	8	600	14	2	5	7	< 0.01	< 10	< 10	67	< 10	82
56815	205	226	1	0.05	4	480	12	6	1	13	< 0.01	< 10	< 10	5	< 10	34
56816	205	226	1	0.06	3	340	10	12	1	11	< 0.01	< 10	< 10	4	< 10	50
56817	205	226	19	0.05	14	3290	26	4	8	33	< 0.01	< 10	< 10	129	< 10	82
56818	205	226	2	0.17	60	2340	6	2	10	299	0.10	< 10	< 10	157	< 10	156
56819	205	226	3	0.04	< 1	1570	10	2	11	8	0.21	< 10	< 10	115	< 10	112
56820	205	226	4	0.01	9	330	14	6	1	213	< 0.01	< 10	< 10	6	< 10	114
56821	205	226	7	< 0.01	12	560	32	10	2	75	< 0.01	< 10	< 10	17	< 10	134

CERTIFICATION: Hart Buchler



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: CANAMERA GEOLOGICAL LTD.
ATTN: DAVID AWRAM
220 CAMBIE ST., SUITE 650
VANCOUVER, BC
V6B 2M9

Project: FD6CA0052
Comments: ATTN:DAVE BRIDGE

Page Number :1-A
Total Pages :1
Certificate Date: 24-SEP-96
Invoice No. :19632221
P.O. Number :8023
Account :KBOA

CERTIFICATE OF ANALYSIS A9632221

SAMPLE	PREP CODE	Au-AA ppb	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
56822	205 226	< 5	< 0.2	2.17	6	250	< 0.5	< 2	4.88	2.0	21	53	33	5.76	< 10	< 1	0.14	30	1.55	840
56823	205 226	55	0.2	0.51	18	140	< 0.5	< 2	1.92	< 0.5	13	69	51	3.70	< 10	< 1	0.21	< 10	0.59	735
56824	205 226	< 5	< 0.2	2.37	30	80	< 0.5	< 2	0.64	< 0.5	15	85	60	7.02	< 10	< 1	0.20	< 10	1.27	260
56825	205 226	< 5	0.2	2.87	20	140	< 0.5	< 2	0.49	< 0.5	17	71	48	6.54	10	< 1	0.09	< 10	1.96	410
56826	205 226	< 5	< 0.2	3.33	6	120	< 0.5	< 2	6.10	< 0.5	30	181	72	4.87	10	< 1	0.07	< 10	3.39	810

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: CANAMERA GEOLOGICAL LTD.
ATTN: DAVID AWRAM
220 CAMBIE ST., SUITE 650
VANCOUVER, BC
V6B 2M9

Project: FD6CA0052
Comments: ATTN:DAVE BRIDGE

Page Number :1-B
Total Pages :1
Certificate Date: 24-SEP-96
Invoice No. :19632221
P.O. Number :8023
Account :KBOA

CERTIFICATE OF ANALYSIS

A9632221

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
56822	205	226	< 1	0.04	30	4170	38	6	5	240	< 0.01	< 10	< 10	119	< 10	700
56823	205	226	8	0.04	9	1290	26	2	4	179	< 0.01	< 10	< 10	30	< 10	76
56824	205	226	8	0.05	22	3120	14	4	7	39	< 0.01	< 10	< 10	111	< 10	94
56825	205	226	6	0.06	22	1930	4	6	8	37	< 0.01	< 10	< 10	139	< 10	80
56826	205	226	< 1	0.04	139	960	8	2	19	205	< 0.01	< 10	< 10	183	< 10	58

CERTIFICATION: Hart Buchler



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: CANAMERA GEOLOGICAL LTD.
ATTN: DAVID AWRAM
220 CAMBIE ST., SUITE 650
VANCOUVER, BC
V6B 2M9

Project: FD6CA0052
Comments:

Page Number :1-A
Total Pages :1
Certificate Date: 06-OCT-96
Invoice No. :19633566
P.O. Number :8026
Account :KBOA

CERTIFICATE OF ANALYSIS

A9633566

SAMPLE	PREP CODE		Au-AA	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
			ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm
56827	205	226	600	< 0.2	0.23	6	80	< 0.5	< 2	5.97	< 0.5	8	95	19	3.34	< 10	< 1	0.14	< 10	0.35	985

CERTIFICATION: Hart Bickler



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: CANAMERA GEOLOGICAL LTD.
ATTN: DAVID AWRAM
220 CAMBIE ST., SUITE 650
VANCOUVER, BC
V6B 2M9

Project: FD6GA0052
Comments:

Page Number :1-B
Total Pages :1
Certificate Date: 06-OCT-96
Invoice No. : I9633566
P.O. Number : 8026
Account : KBOA

CERTIFICATE OF ANALYSIS

A9633566

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
56827	205	226	5	0.01	21	670	6	2	2	547	< 0.01	< 10	< 10	9	< 10	16

CERTIFICATION: Hart Bickel



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: CANAMERA GEOLOGICAL LTD.
 ATTN: DAVID AWRAM
 220 CAMBIE ST., SUITE 650
 VANCOUVER, BC
 V6B 2M9

A9633566

Comments:

CERTIFICATE **A9633566**

(KBOA) - CANAMERA GEOLOGICAL LTD.

Project: FD6CA0052
 P.O. #: 8026

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 6-OCT-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	1	Geochem ring to approx 150 mesh
226	1	0-3 Kg crush and split
3202	1	Rock - save entire reject
229	1	ICP - AQ Digestion charge
* NOTE 1:		

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
17	1	Au ppm	AAS	5	10000
2118	1	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	1	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	1	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	1	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	1	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	1	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	1	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	1	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	1	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	1	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	1	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	1	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	1	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	1	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	1	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	1	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	1	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	1	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	1	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	1	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	1	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	1	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	1	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	1	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	1	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	1	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	1	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	1	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	1	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	1	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	1	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	1	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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: CANAMERA GEOLOGICAL LTD.
ATTN: DAVID AWRAM
220 CAMBIE ST., SUITE 650
VANCOUVER, BC
V6B 2M9

Project: FD6CA0052
Comments:

Page Number :1-A
Total Pages :1
Certificate Date: 06-OCT-96
Invoice No. : I9633566
P.O. Number : 8026
Account : KBOA

CERTIFICATE OF ANALYSIS A9633566

SAMPLE	PREP CODE	Au-AA ppb	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
56827	205 226	600	< 0.2	0.23	6	80	< 0.5	< 2	5.97	< 0.5	8	95	19	3.34	< 10	< 1	0.14	< 10	0.35	985

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: CANAMERA GEOLOGICAL LTD.
ATTN: DAVID AWRAM
220 CAMBIE ST., SUITE 650
VANCOUVER, BC
V6B 2M9

Project : FD6CA0052
Comments:

Page Number : 1-B
Total Pages : 1
Certificate Date: 06-OCT-96
Invoice No. : I9633566
P.O. Number : 8026
Account : KBOA

CERTIFICATE OF ANALYSIS

A9633566

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
56827	205	226	5	0.01	21	670	6	2	2	547	< 0.01	< 10	< 10	9	< 10	16

CERTIFICATION: Hart Bickler



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: CANAMERA GEOLOGICAL LTD.
 ATTN: DAVID AWRAM
 220 CAMBIE ST., SUITE 650
 VANCOUVER, BC
 V6B 2M9

A9633567

Comments:

CERTIFICATE **A9633567**

(KBOA) - CANAMERA GEOLOGICAL LTD.

Project: FD6CA0052
 P.O.#: 8026

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 6-OCT-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	330	Dry, sieve to -80 mesh
202	330	save reject
229	330	ICP - Aq Digestion charge

* NOTE 1.

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Tl, W.

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
17	330	Au ppb	AAS	5	10000
2118	330	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	330	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	330	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	330	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	330	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	330	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	330	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	330	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	330	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	330	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	330	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	330	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	330	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	330	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	330	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	330	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	330	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	330	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	330	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	330	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	330	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	330	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	330	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	330	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	330	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	330	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	330	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	330	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	330	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	330	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	330	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	330	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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: CANAMERA GEOLOGICAL LTD.
ATTN: DAVID AWRAM
220 CAMBIE ST., SUITE 650
VANCOUVER, BC
V6B 2M9

Project: FD6CA0052
Comments:

Page Number : 1-A
Total Pages : 9
Certificate Date: 06-OCT-96
Invoice No. : 19633567
P.O. Number : 8026
Account : KBOA

CERTIFICATE OF ANALYSIS

A9633567

SAMPLE	PREP CODE	Au-AA ppb	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
F15-L10 05+50	201 202	< 5	0.8	4.23	8	50	1.0	< 2	0.07	< 0.5	16	28	19	5.66	20	< 1	0.05	20	0.37	1060
F15-L10 05+75	201 202	< 5	0.8	4.04	< 2	60	2.0	< 2	0.10	< 0.5	22	37	40	5.95	10	< 1	0.07	50	0.52	2180
F15-L10 06+00	201 202	< 5	0.6	4.23	< 2	30	0.5	4	0.15	< 0.5	4	27	12	5.05	30	< 1	0.05	10	0.35	215
F15-L10 06+25	201 202	< 5	< 0.2	3.58	< 2	40	0.5	< 2	0.07	< 0.5	7	35	10	5.86	30	< 1	0.06	20	0.32	500
F15-L10 06+50	201 202	< 5	1.2	5.61	< 2	10	1.5	< 2	0.06	< 0.5	6	20	3	6.27	30	< 1	0.04	30	0.10	690
F15-L10 06+75	201 202	< 5	< 0.2	4.39	< 2	20	0.5	2	0.09	< 0.5	13	29	12	7.33	40	< 1	0.06	10	0.28	985
F15-L10 07+00	201 202	< 5	0.6	4.62	< 2	30	1.0	< 2	0.07	< 0.5	8	27	10	6.78	40	< 1	0.04	20	0.29	635
F15-L10 07+25	201 202	< 5	< 0.2	1.54	16	80	0.5	< 2	0.08	< 0.5	12	14	26	4.79	< 10	< 1	0.10	< 10	0.23	395
F15-L10 07+75	201 202	< 5	< 0.2	2.88	18	70	1.0	< 2	0.22	< 0.5	24	8	36	5.04	10	< 1	0.13	20	0.82	1315
F15-L10 08+00	201 202	< 5	0.2	3.03	< 2	60	0.5	< 2	0.03	< 0.5	20	12	25	6.95	10	< 1	0.10	10	0.26	2560
F15-L10 08+25	201 202	< 5	0.2	3.22	< 2	50	0.5	< 2	0.13	< 0.5	21	22	20	5.02	10	< 1	0.08	< 10	0.38	1755
F15-L10 08+50	201 202	< 5	< 0.2	3.66	< 2	20	0.5	< 2	0.11	< 0.5	6	27	9	6.45	30	< 1	0.04	10	0.27	390
F15-L10 08+75	201 202	< 5	< 0.2	5.33	< 2	50	0.5	4	0.44	< 0.5	10	22	19	6.62	20	< 1	0.11	< 10	0.78	305
F15-L10 09+25	201 202	< 5	< 0.2	5.23	< 2	30	1.0	< 2	0.11	< 0.5	10	29	14	6.38	30	< 1	0.04	20	0.23	365
F15-L10 09+50	201 202	< 5	0.2	3.95	< 2	10	0.5	2	0.08	< 0.5	4	27	5	7.14	30	< 1	0.04	30	0.16	270
F15-L10 09+75	201 202	< 5	0.4	3.86	6	30	0.5	< 2	0.08	< 0.5	7	30	16	6.00	30	< 1	0.07	10	0.33	580
F15-L10 10+00	201 202	< 5	< 0.2	5.16	< 2	30	1.0	< 2	0.18	< 0.5	6	25	11	6.76	30	< 1	0.06	20	0.31	500
F15-L10 10+25	201 202	< 5	< 0.2	4.14	< 2	20	1.0	< 2	0.05	< 0.5	8	22	9	6.57	30	< 1	0.06	30	0.13	565
F15-L10 10+50	201 202	< 5	0.2	4.17	< 2	20	1.0	< 2	0.09	< 0.5	8	20	9	7.05	30	< 1	0.06	20	0.21	620
F15-L10 10+75	201 202	< 5	0.2	3.75	< 2	20	0.5	< 2	0.08	< 0.5	4	30	17	6.22	40	< 1	0.06	10	0.25	145
F15-L10 11+00	201 202	< 5	0.2	3.76	< 2	50	0.5	< 2	0.04	< 0.5	12	46	14	5.70	20	< 1	0.03	10	0.50	910
F15-L10 11+50	201 202	< 5	0.6	5.05	< 2	30	1.5	< 2	0.11	< 0.5	8	29	10	6.31	30	< 1	0.05	20	0.23	360
F15-L10 12+00	201 202	< 5	0.2	4.82	< 2	50	2.0	< 2	0.30	< 0.5	6	29	15	6.03	20	< 1	0.08	40	0.57	285
F15-L10 12+25	201 202	< 5	0.4	3.89	< 2	10	1.0	2	0.07	< 0.5	5	28	9	7.89	40	< 1	0.03	20	0.14	435
F15-L10 12+50	201 202	< 5	< 0.2	4.79	< 2	40	2.0	< 2	0.06	< 0.5	9	22	23	6.21	30	< 1	0.07	30	0.23	955
F15-L10 12+75	201 202	< 5	0.2	3.74	< 2	60	0.5	< 2	0.23	< 0.5	20	33	23	4.75	10	< 1	0.09	< 10	0.70	1060
F15-L10 13+00	201 202	< 5	< 0.2	3.32	< 2	20	0.5	< 2	0.11	< 0.5	9	32	11	7.43	30	< 1	0.06	10	0.38	500
F15-L11 05+75	201 202	< 5	0.4	4.52	< 2	10	1.0	< 2	0.04	< 0.5	4	20	< 1	7.16	40	< 1	0.06	30	0.10	530
F15-L11 07+00	201 202	< 5	0.2	4.06	< 2	40	0.5	< 2	0.21	< 0.5	7	17	8	5.07	10	< 1	0.04	10	0.32	260
F15-L11 08+00	201 202	< 5	< 0.2	4.07	< 2	50	0.5	< 2	0.15	< 0.5	12	32	13	5.28	10	< 1	0.06	10	0.42	480
F15-L11 08+25	201 202	< 5	< 0.2	4.35	< 2	40	0.5	4	0.18	< 0.5	10	25	21	7.05	20	< 1	0.08	10	0.52	745
F15-L11 08+50	201 202	< 5	1.0	4.90	< 2	20	1.0	2	0.13	< 0.5	6	25	11	6.72	30	< 1	0.05	30	0.29	275
F15-L11 08+75	201 202	< 5	0.2	5.01	< 2	30	1.0	2	0.08	< 0.5	5	29	13	6.95	30	< 1	0.04	20	0.19	370
F15-L11 09+00	201 202	< 5	< 0.2	5.24	< 2	40	2.0	4	0.15	< 0.5	12	34	23	6.46	30	< 1	0.05	40	0.33	625
F15-L11 09+25	201 202	< 5	< 0.2	3.90	< 2	50	1.0	< 2	0.14	< 0.5	15	30	21	5.99	20	< 1	0.07	10	0.47	760
F15-L11 09+50	201 202	< 5	0.2	3.64	< 2	60	1.5	< 2	0.11	< 0.5	11	30	23	4.88	10	< 1	0.07	10	0.55	570
F15-L11 09+75	201 202	< 5	< 0.2	5.02	< 2	60	0.5	< 2	0.33	< 0.5	12	23	19	6.26	10	< 1	0.10	10	0.61	485
F15-L11 10+00	201 202	< 5	< 0.2	2.28	22	80	2.0	< 2	0.01	< 0.5	15	7	30	5.57	< 10	< 1	0.08	20	0.06	1395
F15-L11 10+75	201 202	< 5	0.6	5.27	< 2	20	1.5	< 2	0.06	< 0.5	4	35	6	7.60	40	< 1	0.04	30	0.14	370
F15-L11 11+00	201 202	< 5	< 0.2	4.35	< 2	50	0.5	4	0.32	< 0.5	9	30	22	6.18	10	< 1	0.11	< 10	0.71	345

CERTIFICATION:

Hart Buchler



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: CANAMERA GEOLOGICAL LTD.
ATTN: DAVID AWRAM
220 CAMBIE ST., SUITE 650
VANCOUVER, BC
V6B 2M9

Project: FD6CA0052
Comments:

Page Number :1-B
Total Pages :9
Certificate Date: 06-OCT-96
Invoice No. :19633567
P.O. Number :8026
Account :KBOA

CERTIFICATE OF ANALYSIS

A9633567

SAMPLE	PREP		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
F15-L10 05+50	201	202	6	< 0.01	12	1020	18	2	6	9	0.30	< 10	< 10	88	< 10	132
F15-L10 05+75	201	202	4	0.01	18	1230	14	4	10	12	0.28	< 10	< 10	102	< 10	104
F15-L10 06+00	201	202	3	0.01	4	740	12	4	7	13	0.51	< 10	< 10	108	< 10	38
F15-L10 06+25	201	202	4	0.01	13	770	12	2	5	9	0.27	< 10	< 10	69	< 10	54
F15-L10 06+50	201	202	6	0.03	5	980	12	4	4	7	0.18	< 10	< 10	34	< 10	72
F15-L10 06+75	201	202	7	0.02	5	790	12	2	7	9	0.40	< 10	< 10	89	< 10	62
F15-L10 07+00	201	202	5	0.01	15	730	14	2	4	8	0.23	< 10	< 10	62	< 10	74
F15-L10 07+25	201	202	2	< 0.01	11	1220	6	< 2	5	8	< 0.01	< 10	< 10	32	< 10	92
F15-L10 07+75	201	202	5	0.01	7	1310	12	2	7	13	0.07	< 10	< 10	61	< 10	102
F15-L10 08+00	201	202	3	< 0.01	5	1670	16	2	4	6	0.04	< 10	< 10	47	< 10	94
F15-L10 08+25	201	202	3	0.01	9	1000	2	2	6	14	0.24	< 10	< 10	84	< 10	72
F15-L10 08+50	201	202	4	< 0.01	5	720	10	< 2	6	13	0.45	< 10	< 10	115	< 10	40
F15-L10 08+75	201	202	2	0.11	9	1390	< 2	2	16	44	0.76	< 10	< 10	147	< 10	48
F15-L10 09+25	201	202	5	0.01	5	890	10	4	8	12	0.39	< 10	< 10	89	< 10	64
F15-L10 09+50	201	202	6	0.01	2	660	6	2	5	10	0.33	< 10	< 10	78	< 10	42
F15-L10 09+75	201	202	6	0.02	11	1390	12	< 2	6	8	0.25	< 10	< 10	67	< 10	80
F15-L10 10+00	201	202	4	0.04	4	950	2	2	9	18	0.44	< 10	< 10	81	< 10	50
F15-L10 10+25	201	202	6	0.02	3	720	14	< 2	5	7	0.29	< 10	< 10	58	< 10	50
F15-L10 10+50	201	202	6	0.04	5	640	12	2	5	10	0.30	< 10	< 10	53	< 10	62
F15-L10 10+75	201	202	4	0.03	6	1210	14	2	7	9	0.37	< 10	< 10	98	< 10	48
F15-L10 11+00	201	202	4	< 0.01	27	660	8	2	5	9	0.20	< 10	< 10	74	< 10	78
F15-L10 11+50	201	202	5	0.03	7	830	8	2	6	12	0.33	< 10	< 10	78	< 10	62
F15-L10 12+00	201	202	5	0.07	14	960	4	4	9	27	0.58	< 10	< 10	111	< 10	66
F15-L10 12+25	201	202	7	< 0.01	4	730	12	2	5	9	0.34	< 10	< 10	84	< 10	52
F15-L10 12+50	201	202	6	0.03	26	1000	14	2	5	10	0.28	< 10	< 10	56	< 10	122
F15-L10 12+75	201	202	2	0.06	25	1100	10	4	6	25	0.21	< 10	< 10	77	< 10	84
F15-L10 13+00	201	202	5	0.03	10	640	10	2	6	13	0.37	< 10	< 10	92	< 10	52
F15-L11 05+75	201	202	7	0.04	1	860	16	< 2	4	5	0.24	< 10	< 10	48	< 10	66
F15-L11 07+00	201	202	3	0.01	6	860	8	2	5	21	0.42	< 10	< 10	104	< 10	60
F15-L11 08+00	201	202	3	0.01	13	930	8	2	7	16	0.29	< 10	< 10	91	< 10	62
F15-L11 08+25	201	202	4	0.04	12	1190	8	4	10	19	0.47	< 10	< 10	103	< 10	80
F15-L11 08+50	201	202	5	0.03	4	760	14	2	8	14	0.46	< 10	< 10	90	< 10	52
F15-L11 08+75	201	202	5	0.01	5	860	10	4	6	10	0.35	< 10	< 10	86	< 10	52
F15-L11 09+00	201	202	5	0.03	10	1030	12	2	8	16	0.45	< 10	< 10	99	< 10	82
F15-L11 09+25	201	202	3	0.03	15	1120	10	2	8	17	0.41	< 10	< 10	98	< 10	72
F15-L11 09+50	201	202	3	0.01	25	1290	10	2	7	13	0.25	< 10	< 10	73	< 10	114
F15-L11 09+75	201	202	2	0.08	8	1240	4	2	11	34	0.64	< 10	< 10	132	< 10	58
F15-L11 10+00	201	202	4	< 0.01	8	1030	12	2	7	5	< 0.01	< 10	< 10	23	< 10	98
F15-L11 10+75	201	202	6	0.02	4	810	12	2	6	8	0.30	< 10	< 10	67	< 10	60
F15-L11 11+00	201	202	3	0.09	14	1340	2	2	11	34	0.56	< 10	< 10	127	< 10	66

CERTIFICATION:

Hart Bickler



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: CANAMERA GEOLOGICAL LTD.
 ATTN: DAVID AWRAM
 220 CAMBIE ST., SUITE 650
 VANCOUVER, BC
 V6B 2M9

Page Number :2-A
 Total Pages :9
 Certificate Date: 06-OCT-96
 Invoice No. :I9633567
 P.O. Number :8026
 Account :KBOA

Project : FD6CA0052
 Comments :

CERTIFICATE OF ANALYSIS A9633567

SAMPLE	PREP CODE	Au-AA ppb	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
F15-L11 11+25	201 202	< 5	0.8	4.54	< 2	50	0.5	< 2	0.25	< 0.5	15	30	18	5.38	10	< 1	0.08	10	0.58	835
F15-L11 11+50	201 202	< 5	1.0	4.55	< 2	10	1.0	< 2	0.09	< 0.5	6	24	6	7.26	30	< 1	0.05	20	0.18	555
F15-L11 11+75	201 202	< 5	< 0.2	3.58	< 2	80	0.5	< 2	0.13	< 0.5	15	37	28	4.72	10	< 1	0.09	10	0.63	745
F15-L11 12+00	201 202	< 5	0.6	4.77	< 2	10	1.0	4	0.05	< 0.5	3	18	5	6.43	30	< 1	0.06	30	0.09	385
F15-L11 12+25	201 202	< 5	0.2	3.55	2	10	1.0	< 2	0.05	< 0.5	9	22	13	6.47	30	< 1	0.10	30	0.20	1580
F15-L11 12+50	201 202	< 5	< 0.2	3.49	< 2	50	0.5	< 2	0.16	< 0.5	16	45	20	5.68	20	< 1	0.07	10	0.73	850
F15-L11 12+75	201 202	< 5	< 0.2	3.52	< 2	60	0.5	4	0.42	< 0.5	17	32	13	7.21	30	< 1	0.12	10	0.73	1635
F15-L11 13+00	201 202	< 5	< 0.2	4.15	< 2	30	0.5	< 2	0.16	< 0.5	6	30	10	6.08	30	< 1	0.05	10	0.38	455
F15-L12 04+50	201 202	< 5	0.2	4.08	< 2	20	0.5	< 2	0.09	< 0.5	6	36	13	6.69	30	< 1	0.05	30	0.27	300
F15-L12 04+75	201 202	< 5	1.4	4.40	< 2	20	0.5	< 2	0.11	< 0.5	6	25	12	6.50	30	< 1	0.05	30	0.29	470
F15-L12 05+00	201 202	< 5	0.4	4.25	< 2	40	0.5	< 2	0.22	< 0.5	8	28	16	6.32	20	< 1	0.08	10	0.56	635
F15-L12 05+25	201 202	< 5	< 0.2	3.32	6	40	0.5	< 2	0.05	< 0.5	6	30	17	7.14	10	< 1	0.03	< 10	0.28	260
F15-L12 05+50	201 202	< 5	0.8	2.85	< 2	20	< 0.5	< 2	0.11	< 0.5	6	31	12	7.82	30	< 1	0.06	10	0.37	360
F15-L12 05+75	201 202	< 5	1.4	5.24	< 2	10	1.5	< 2	0.04	< 0.5	2	15	5	6.09	30	< 1	0.04	20	0.09	485
F15-L12 06+00	201 202	< 5	1.4	3.59	< 2	20	0.5	< 2	0.05	< 0.5	8	23	12	6.66	30	< 1	0.08	20	0.22	1190
F15-L12 06+25	201 202	< 5	2.2	4.24	< 2	40	0.5	< 2	0.16	< 0.5	16	25	15	6.44	30	< 1	0.06	20	0.42	1570
F15-L12 06+50	201 202	< 5	0.8	3.98	< 2	60	0.5	< 2	0.23	< 0.5	12	26	19	5.16	10	< 1	0.07	10	0.45	900
F15-L12 06+75	201 202	< 5	1.2	4.49	2	50	1.0	< 2	0.05	< 0.5	16	34	27	5.79	20	< 1	0.07	20	0.33	1735
F15-L12 07+00	201 202	< 5	0.2	3.85	< 2	20	0.5	4	0.06	< 0.5	3	27	8	7.36	30	< 1	0.06	30	0.23	185
F15-L12 07+25	201 202	< 5	1.0	3.35	6	70	0.5	< 2	0.15	< 0.5	7	26	14	4.72	10	< 1	0.06	10	0.40	370
F15-L12 08+75	201 202	< 5	0.2	3.26	< 2	40	< 0.5	< 2	0.15	< 0.5	8	38	26	6.18	10	< 1	0.08	10	0.59	380
F15-L12 09+00	201 202	< 5	0.2	4.17	< 2	40	0.5	< 2	0.08	< 0.5	13	41	23	6.17	30	< 1	0.08	20	0.42	835
F15-L12 09+25	201 202	< 5	< 0.2	4.00	< 2	50	0.5	< 2	0.09	< 0.5	9	48	18	4.62	10	< 1	0.07	10	0.54	425
F15-L12 09+50	201 202	< 5	0.2	4.20	10	40	1.0	2	0.12	< 0.5	8	34	21	5.56	20	< 1	0.08	20	0.41	925
F15-L12 09+75	201 202	< 5	0.2	5.19	< 2	10	1.5	< 2	0.03	< 0.5	4	23	9	6.32	30	< 1	0.05	30	0.15	400
F15-L12 10+00	201 202	< 5	0.8	3.63	2	70	0.5	< 2	0.06	< 0.5	5	20	19	5.23	10	< 1	0.05	10	0.11	400
F15-L12 10+25	201 202	< 5	< 0.2	1.83	14	80	0.5	< 2	0.06	< 0.5	10	7	34	6.03	< 10	< 1	0.07	< 10	0.04	760
F15-L12 10+50	201 202	< 5	0.2	4.73	8	30	2.0	< 2	0.04	< 0.5	5	16	< 1	5.07	20	< 1	0.07	30	0.16	355
F15-L12 10+75	201 202	< 5	0.8	1.84	12	80	0.5	< 2	0.09	< 0.5	16	8	37	5.09	< 10	< 1	0.09	< 10	0.13	1000
F15-L12 11+25	201 202	< 5	< 0.2	4.45	< 2	20	0.5	< 2	0.10	< 0.5	5	35	16	6.68	30	< 1	0.05	20	0.30	255
F15-L12 11+50	201 202	< 5	< 0.2	5.45	< 2	60	1.0	4	0.40	< 0.5	15	24	26	6.19	10	< 1	0.12	10	0.70	615
F15-L12 11+75	201 202	< 5	0.2	3.26	< 2	50	0.5	< 2	0.06	< 0.5	19	57	21	6.34	20	< 1	0.08	10	0.81	1585
F15-L12 12+00	201 202	< 5	< 0.2	3.22	< 2	60	1.0	< 2	0.12	< 0.5	24	38	32	4.81	10	< 1	0.09	10	0.65	1580
F15-L12 12+25	201 202	< 5	0.2	4.51	< 2	20	0.5	2	0.12	< 0.5	7	29	11	5.96	20	< 1	0.05	20	0.27	520
F15-L12 12+50	201 202	< 5	0.2	4.48	< 2	40	2.5	< 2	0.10	< 0.5	3	15	12	4.62	30	< 1	0.05	40	0.14	215
F15-L12 12+75	201 202	< 5	0.2	4.14	< 2	100	2.0	2	0.54	3.0	11	27	12	5.68	10	< 1	0.05	30	0.60	575
F15-L12 13+00	201 202	< 5	0.2	3.66	4	20	0.5	< 2	0.04	< 0.5	6	31	15	6.07	30	< 1	0.06	20	0.41	530
F15-L13 04+50	201 202	< 5	0.2	4.35	< 2	30	1.0	4	0.21	< 0.5	5	20	9	6.02	30	< 1	0.07	40	0.53	240
F15-L13 04+75	201 202	< 5	0.6	2.85	< 2	40	0.5	< 2	0.03	< 0.5	6	45	15	7.15	30	< 1	0.03	10	0.45	310
F15-L13 05+00	201 202	< 5	< 0.2	3.47	< 2	30	< 0.5	< 2	0.05	< 0.5	5	49	18	6.01	10	< 1	0.03	10	0.34	185

CERTIFICATION:

Hart Buchler



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: CANAMERA GEOLOGICAL LTD.
 ATTN: DAVID AWRAM
 220 CAMBIE ST., SUITE 650
 VANCOUVER, BC
 V6B 2M9

Page Number :2-B
 Total Pages :9
 Certificate Date: 06-OCT-96
 Invoice No. : I9633567
 P.O. Number : 8026
 Account : KBOA

Project : FD6CA0052
 Comments :

CERTIFICATE OF ANALYSIS A9633567

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
F15-L11 11+25	201 202	3	0.03	13	1090	4	2	8	25	0.45	< 10	< 10	115	< 10	66
F15-L11 11+50	201 202	6	0.04	4	930	10	< 2	4	11	0.29	< 10	< 10	60	< 10	56
F15-L11 11+75	201 202	3	0.03	29	1190	8	2	9	17	0.28	< 10	< 10	89	< 10	96
F15-L11 12+00	201 202	5	0.04	4	910	10	< 2	5	7	0.19	< 10	< 10	33	< 10	64
F15-L11 12+25	201 202	7	0.05	14	810	14	2	5	6	0.23	< 10	< 10	43	< 10	98
F15-L11 12+50	201 202	4	0.03	50	1030	10	2	5	20	0.26	< 10	< 10	75	< 10	134
F15-L11 12+75	201 202	3	0.19	14	780	10	< 2	7	51	0.33	< 10	< 10	109	< 10	74
F15-L11 13+00	201 202	4	0.04	10	770	10	2	5	18	0.35	< 10	< 10	83	< 10	52
F15-L12 04+50	201 202	5	0.01	8	850	6	< 2	7	10	0.33	< 10	< 10	75	< 10	44
F15-L12 04+75	201 202	6	0.03	6	700	8	2	5	11	0.40	< 10	< 10	88	< 10	60
F15-L12 05+00	201 202	4	0.04	10	940	6	4	8	21	0.53	< 10	< 10	115	< 10	62
F15-L12 05+25	201 202	2	< 0.01	8	680	14	2	5	9	0.10	< 10	< 10	128	< 10	60
F15-L12 05+50	201 202	6	0.01	7	630	10	2	6	13	0.39	< 10	< 10	108	< 10	56
F15-L12 05+75	201 202	7	0.03	1	760	16	2	4	5	0.21	< 10	< 10	40	< 10	62
F15-L12 06+00	201 202	6	0.03	8	890	14	2	4	8	0.25	< 10	< 10	60	< 10	94
F15-L12 06+25	201 202	6	0.04	8	1000	10	4	6	17	0.42	< 10	< 10	104	< 10	76
F15-L12 06+50	201 202	3	0.01	11	2910	6	2	6	21	0.35	< 10	< 10	126	< 10	102
F15-L12 06+75	201 202	5	0.01	22	1080	14	2	6	9	0.17	< 10	< 10	55	< 10	140
F15-L12 07+00	201 202	7	0.01	5	780	12	2	6	8	0.34	< 10	< 10	75	< 10	48
F15-L12 07+25	201 202	3	0.02	12	1030	12	2	4	19	0.28	< 10	< 10	94	< 10	80
F15-L12 08+75	201 202	3	0.01	21	1390	10	2	8	17	0.37	< 10	< 10	110	< 10	82
F15-L12 09+00	201 202	5	0.01	24	1080	14	2	6	9	0.26	< 10	< 10	69	< 10	96
F15-L12 09+25	201 202	3	0.01	25	860	6	< 2	6	12	0.25	< 10	< 10	71	< 10	64
F15-L12 09+50	201 202	4	0.01	17	1430	12	2	7	15	0.28	< 10	< 10	84	< 10	100
F15-L12 09+75	201 202	5	0.01	7	980	8	4	4	6	0.19	< 10	< 10	39	< 10	56
F15-L12 10+00	201 202	4	0.01	3	1190	8	2	4	8	0.13	< 10	< 10	53	< 10	62
F15-L12 10+25	201 202	4	< 0.01	4	3190	12	2	4	7	< 0.01	< 10	< 10	25	< 10	116
F15-L12 10+50	201 202	5	0.04	8	470	10	< 2	3	6	0.12	< 10	< 10	22	< 10	82
F15-L12 10+75	201 202	1	< 0.01	9	1850	10	< 2	4	9	0.01	< 10	< 10	31	< 10	112
F15-L12 11+25	201 202	6	0.03	9	1210	10	4	6	11	0.36	< 10	< 10	89	< 10	66
F15-L12 11+50	201 202	2	0.10	10	1280	< 2	2	12	41	0.71	< 10	< 10	136	< 10	80
F15-L12 11+75	201 202	3	< 0.01	45	970	10	2	5	11	0.18	< 10	< 10	66	< 10	90
F15-L12 12+00	201 202	3	0.01	43	1280	14	2	6	17	0.20	< 10	< 10	60	< 10	164
F15-L12 12+25	201 202	5	0.02	7	950	10	< 2	6	12	0.33	< 10	< 10	74	< 10	52
F15-L12 12+50	201 202	3	0.05	12	630	10	< 2	5	13	0.19	< 10	< 10	29	< 10	78
F15-L12 12+75	201 202	4	0.03	41	980	2	2	7	53	0.61	< 10	< 10	112	< 10	246
F15-L12 13+00	201 202	6	0.01	21	750	12	2	4	7	0.14	< 10	< 10	40	< 10	68
F15-L13 04+50	201 202	4	0.04	7	910	4	2	8	18	0.59	< 10	< 10	107	< 10	50
F15-L13 04+75	201 202	4	< 0.01	22	480	12	2	5	8	0.21	< 10	< 10	102	< 10	66
F15-L13 05+00	201 202	4	< 0.01	17	640	8	2	4	10	0.12	< 10	< 10	74	< 10	56

CERTIFICATION:

David AWRAM



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: CANAMERA GEOLOGICAL LTD.
 ATTN: DAVID AWRAM
 220 CAMBIE ST., SUITE 650
 VANCOUVER, BC
 V6B 2M9

Project: FD6CA0052
 Comments:

Page Number :3-A
 Total Pages :9
 Certificate Date: 06-OCT-96
 Invoice No. : I9633567
 P.O. Number : 8026
 Account : KBOA

CERTIFICATE OF ANALYSIS A9633567

SAMPLE	PREP CODE	Au-AA ppb	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
F15-L13 05+25	201 202	< 5	0.4	4.02	< 2	20	0.5	< 2	0.09	< 0.5	13	29	17	7.25	30	< 1	0.07	20	0.24	1160
F15-L13 05+50	201 202	< 5	< 0.2	4.47	< 2	20	0.5	4	0.15	< 0.5	13	28	16	6.04	30	< 1	0.06	20	0.32	805
F15-L13 05+75	201 202	< 5	0.6	3.31	2	50	< 0.5	2	0.17	< 0.5	11	42	14	5.66	20	< 1	0.07	< 10	0.52	615
F15-L13 06+00	201 202	< 5	< 0.2	3.91	< 2	50	0.5	< 2	0.08	< 0.5	6	39	15	5.77	10	< 1	0.03	10	0.24	525
F15-L13 06+25	201 202	< 5	0.2	3.72	< 2	70	0.5	< 2	0.19	< 0.5	22	35	21	5.22	10	< 1	0.07	10	0.67	2810
F15-L13 06+50	201 202	< 5	0.2	4.15	< 2	30	0.5	< 2	0.14	< 0.5	11	27	13	5.56	20	< 1	0.07	10	0.45	675
F15-L13 06+75	201 202	< 5	0.2	4.35	6	40	1.0	4	0.14	< 0.5	12	32	24	6.11	20	< 1	0.07	10	0.45	775
F15-L13 07+00	201 202	< 5	1.0	2.58	8	90	0.5	< 2	0.06	0.5	14	37	44	5.76	10	< 1	0.07	< 10	0.46	645
F15-L13 07+50	201 202	< 5	1.2	2.57	< 2	90	0.5	< 2	0.16	< 0.5	11	30	16	5.70	10	< 1	0.06	10	0.47	970
F15-L13 07+75	201 202	< 5	< 0.2	4.01	< 2	50	0.5	< 2	0.27	< 0.5	14	23	10	5.78	10	< 1	0.06	10	0.53	785
F15-L13 08+00	201 202	< 5	0.2	2.47	26	80	< 0.5	< 2	0.05	< 0.5	9	26	54	8.02	10	< 1	0.06	< 10	0.15	260
F15-L13 08+25	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
F15-L13 08+50	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
F15-L13 08+75	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
F15-L13 09+00	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
F15-L13 09+25	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
F15-L13 09+50	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
F15-L13 09+75	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
F15-L13 10+00	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
F15-L13 10+25	201 202	< 5	0.2	1.63	34	70	0.5	< 2	0.01	< 0.5	16	7	29	5.62	< 10	< 1	0.08	< 10	0.05	475
F15-L13 10+50	201 202	< 5	< 0.2	4.72	< 2	40	0.5	< 2	0.25	< 0.5	7	22	16	5.37	10	< 1	0.07	10	0.48	270
F15-L13 10+75	201 202	< 5	0.2	3.34	< 2	60	0.5	< 2	0.03	< 0.5	17	24	14	6.03	10	< 1	0.06	10	0.32	3520
F15-L13 11+00	201 202	< 5	0.2	2.62	16	90	1.5	< 2	0.11	< 0.5	11	33	32	4.50	10	< 1	0.08	10	0.43	385
F15-L13 11+25	201 202	< 5	1.2	4.36	< 2	40	0.5	< 2	0.12	< 0.5	12	33	36	5.56	20	< 1	0.08	10	0.43	1060
F15-L13 11+50	201 202	< 5	0.6	4.36	< 2	30	0.5	< 2	0.13	< 0.5	6	34	15	6.67	30	< 1	0.06	30	0.38	335
F15-L13 11+75	201 202	< 5	1.6	5.70	< 2	20	1.5	< 2	0.05	< 0.5	4	27	10	6.28	30	< 1	0.05	30	0.13	315
F15-L13 12+00	201 202	< 5	1.0	4.99	< 2	40	0.5	< 2	0.29	< 0.5	10	31	13	7.85	30	< 1	0.06	10	0.63	435
F15-L13 12+25	201 202	< 5	< 0.2	4.37	< 2	70	1.0	< 2	0.16	< 0.5	16	51	27	4.69	10	< 1	0.06	10	0.58	860
F15-L13 12+50	201 202	< 5	0.2	3.02	< 2	40	< 0.5	< 2	0.04	< 0.5	7	63	16	7.31	20	< 1	0.05	< 10	0.69	370
F15-L13 12+75	201 202	< 5	0.2	4.89	< 2	70	2.5	2	0.18	< 0.5	8	44	19	6.23	30	< 1	0.08	30	0.53	325
F15-L13 13+00	201 202	< 5	0.2	4.12	< 2	40	1.5	4	0.23	< 0.5	6	32	6	5.54	20	< 1	0.04	10	0.51	185
F15-L14 05+25	201 202	< 5	< 0.2	3.64	< 2	30	0.5	< 2	0.06	< 0.5	7	37	15	6.22	30	< 1	0.05	20	0.27	355
F15-L14 05+50	201 202	< 5	0.2	4.78	< 2	20	1.5	< 2	0.06	< 0.5	7	26	13	6.50	20	< 1	0.05	30	0.17	375
F15-L14 05+75	201 202	< 5	< 0.2	4.25	< 2	30	0.5	2	0.18	< 0.5	6	36	35	5.25	10	< 1	0.06	10	0.52	255
F15-L14 06+00	201 202	< 5	< 0.2	4.91	< 2	40	< 0.5	4	0.40	< 0.5	8	26	19	7.61	10	< 1	0.11	< 10	0.80	265
F15-L14 06+25	201 202	< 5	0.6	3.84	< 2	120	0.5	< 2	0.11	< 0.5	21	34	20	5.80	10	< 1	0.03	20	0.71	1045
F15-L14 06+50	201 202	< 5	< 0.2	4.70	< 2	160	0.5	< 2	0.15	< 0.5	21	30	35	6.45	10	< 1	0.04	10	0.82	1435
F15-L14 06+75	201 202	< 5	0.2	4.68	< 2	40	1.5	< 2	0.08	< 0.5	15	28	14	6.12	30	< 1	0.04	20	0.25	1345
F15-L14 07+00	201 202	< 5	0.8	5.37	< 2	30	0.5	4	0.14	< 0.5	19	28	19	6.52	20	< 1	0.05	40	0.35	1255
F15-L14 07+25	201 202	< 5	0.6	4.36	< 2	40	0.5	< 2	0.05	< 0.5	7	36	20	5.89	10	< 1	0.05	10	0.34	520

CERTIFICATION: *Hart Buchler*



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: CANAMERA GEOLOGICAL LTD.
 ATTN: DAVID AWRAM
 220 CAMBIE ST., SUITE 650
 VANCOUVER, BC
 V6B 2M9

Project : FD6CA0052
 Comments :

Page Number :3-B
 Total Pages :9
 Certificate Date: 06-OCT-96
 Invoice No. : 19633567
 P.O. Number : 8026
 Account : KBOA

CERTIFICATE OF ANALYSIS

A9633567

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
F15-L13 05+25	201	202	5	0.03	5	1050	12	2	6	11	0.38	< 10	< 10	88	< 10	68
F15-L13 05+50	201	202	4	0.05	5	1060	8	2	7	16	0.42	< 10	< 10	96	< 10	58
F15-L13 05+75	201	202	3	0.05	14	1120	12	2	4	21	0.38	< 10	< 10	125	< 10	84
F15-L13 06+00	201	202	3	< 0.01	10	1260	8	< 2	4	11	0.30	< 10	< 10	111	< 10	54
F15-L13 06+25	201	202	2	0.01	17	1760	16	2	6	19	0.29	< 10	< 10	121	< 10	122
F15-L13 06+50	201	202	4	0.04	12	1260	8	< 2	6	15	0.33	< 10	< 10	82	< 10	72
F15-L13 06+75	201	202	4	0.03	13	1200	10	< 2	9	15	0.34	< 10	< 10	102	< 10	104
F15-L13 07+00	201	202	4	0.01	21	1390	8	2	3	9	0.04	< 10	< 10	94	< 10	158
F15-L13 07+50	201	202	3	0.01	15	1750	6	2	3	18	0.26	< 10	< 10	114	< 10	86
F15-L13 07+75	201	202	3	0.03	9	1330	4	< 2	6	26	0.46	< 10	< 10	133	< 10	66
F15-L13 08+00	201	202	4	< 0.01	32	1070	14	6	5	12	0.02	< 10	< 10	93	< 10	82
F15-L13 08+25	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
F15-L13 08+50	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
F15-L13 08+75	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
F15-L13 09+00	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
F15-L13 09+25	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
F15-L13 09+50	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
F15-L13 09+75	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
F15-L13 10+00	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
F15-L13 10+25	201	202	1	< 0.01	14	1350	26	6	5	4	< 0.01	< 10	< 10	24	< 10	82
F15-L13 10+50	201	202	2	0.05	6	1310	6	2	9	24	0.54	< 10	< 10	127	< 10	58
F15-L13 10+75	201	202	5	< 0.01	12	810	10	2	4	7	0.13	< 10	< 10	51	< 10	74
F15-L13 11+00	201	202	3	0.01	29	930	12	2	5	14	0.05	< 10	< 10	45	< 10	134
F15-L13 11+25	201	202	6	0.02	23	1910	10	2	9	13	0.33	< 10	< 10	88	< 10	180
F15-L13 11+50	201	202	4	0.01	11	950	10	< 2	8	14	0.48	< 10	< 10	103	< 10	72
F15-L13 11+75	201	202	6	0.03	6	870	14	2	5	7	0.24	< 10	< 10	46	< 10	60
F15-L13 12+00	201	202	3	0.06	15	1020	6	2	8	29	0.49	< 10	< 10	106	< 10	56
F15-L13 12+25	201	202	2	0.01	26	1150	10	2	7	15	0.21	< 10	< 10	79	< 10	84
F15-L13 12+50	201	202	3	< 0.01	41	640	8	2	3	8	0.13	< 10	< 10	80	< 10	60
F15-L13 12+75	201	202	1	0.01	32	1320	8	2	7	18	0.32	< 10	< 10	94	< 10	98
F15-L13 13+00	201	202	3	0.01	9	940	8	< 2	7	25	0.64	< 10	< 10	120	< 10	42
F15-L14 05+25	201	202	4	< 0.01	11	770	16	2	6	8	0.34	< 10	< 10	97	< 10	70
F15-L14 05+50	201	202	5	0.01	6	910	12	4	5	7	0.27	< 10	< 10	63	< 10	68
F15-L14 05+75	201	202	3	0.01	11	1220	14	2	8	16	0.43	< 10	< 10	120	< 10	70
F15-L14 06+00	201	202	1	0.10	9	1510	2	4	13	38	0.79	< 10	< 10	163	< 10	56
F15-L14 06+25	201	202	3	< 0.01	15	1470	12	2	4	13	0.21	< 10	< 10	140	< 10	96
F15-L14 06+50	201	202	3	0.01	12	1570	6	2	6	17	0.18	< 10	< 10	159	< 10	108
F15-L14 06+75	201	202	5	0.01	11	1180	12	4	4	10	0.28	< 10	< 10	81	< 10	122
F15-L14 07+00	201	202	6	0.01	11	1440	10	2	8	17	0.40	< 10	< 10	98	< 10	168
F15-L14 07+25	201	202	5	< 0.01	19	1550	12	< 2	4	8	0.12	< 10	< 10	80	< 10	120

CERTIFICATION:

Hart Bickler



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: CANAMERA GEOLOGICAL LTD.
ATTN: DAVID AWRAM
220 CAMBIE ST., SUITE 650
VANCOUVER, BC
V6B 2M9

Project: FD6CA0052
Comments:

Page Number :4-A
Total Pages :9
Certificate Date: 06-OCT-96
Invoice No. :I9633567
P.O. Number :8026
Account :KBOA

CERTIFICATE OF ANALYSIS A9633567

SAMPLE	PREP CODE	Au-AA ppb	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
F15-L14 07+50	201 202	< 5	< 0.2	5.33	< 2	30	1.5	< 2	0.07	< 0.5	7	29	12	6.07	20	< 1	0.05	20	0.21	305
F15-L14 07+75	201 202	< 5	< 0.2	3.99	< 2	30	< 0.5	< 2	0.20	< 0.5	10	28	18	5.71	10	< 1	0.07	< 10	0.58	555
F15-L14 08+00	201 202	< 5	< 0.2	4.53	< 2	30	0.5	< 2	0.17	< 0.5	12	26	18	6.58	20	< 1	0.05	10	0.49	660
F15-L14 08+25	201 202	< 5	0.2	2.67	2	50	0.5	< 2	0.09	< 0.5	22	21	46	6.32	10	< 1	0.06	10	0.34	1690
F15-L14 08+50	201 202	< 5	0.2	2.58	20	90	0.5	< 2	0.14	< 0.5	19	15	62	5.41	< 10	< 1	0.08	10	0.27	1260
F15-L14 08+75	201 202	< 5	< 0.2	3.99	< 2	40	< 0.5	< 2	0.22	< 0.5	10	28	24	6.38	10	< 1	0.08	10	0.63	425
F15-L14 09+00	201 202	< 5	< 0.2	4.36	< 2	40	< 0.5	< 2	0.30	< 0.5	7	34	21	5.90	10	< 1	0.08	< 10	0.61	240
F15-L14 11+75	201 202	< 5	0.6	5.26	< 2	30	1.0	< 2	0.05	< 0.5	4	33	13	5.47	20	< 1	0.05	20	0.33	250
F15-L14 12+00	201 202	< 5	0.6	3.38	< 2	40	0.5	< 2	0.06	< 0.5	11	44	21	4.95	10	< 1	0.06	10	0.73	525
F15-L14 12+25	201 202	< 5	< 0.2	4.11	< 2	70	0.5	< 2	0.08	< 0.5	9	60	16	5.05	10	< 1	0.08	10	0.66	450
F15-L14 12+50	201 202	< 5	< 0.2	4.66	< 2	40	0.5	< 2	0.20	< 0.5	4	32	15	4.09	20	< 1	0.06	20	0.37	155
F15-L14 12+75	201 202	< 5	< 0.2	5.04	< 2	50	0.5	< 2	0.27	< 0.5	9	34	35	6.29	20	< 1	0.07	< 10	0.85	355
F15-L15 04+75	201 202	< 5	1.2	3.66	74	50	< 0.5	< 2	0.08	< 0.5	9	27	27	7.95	20	< 1	0.03	< 10	0.51	905
F15-L15 05+00	201 202	55	3.0	3.82	20	70	1.0	< 2	0.93	< 0.5	19	43	140	5.45	10	< 1	0.13	10	0.46	4090
F15-L15 05+25	201 202	< 5	0.2	4.50	60	50	0.5	< 2	0.28	< 0.5	15	27	14	5.93	10	< 1	0.05	< 10	0.59	1315
F15-L15 05+50	201 202	< 5	0.2	2.58	18	50	< 0.5	< 2	0.03	< 0.5	5	31	19	7.08	20	< 1	0.06	10	0.20	385
F15-L15 06+00	201 202	< 5	< 0.2	4.87	< 2	30	0.5	< 2	0.28	< 0.5	6	27	12	5.31	10	< 1	0.06	10	0.63	185
F15-L15 06+25	201 202	< 5	< 0.2	4.91	< 2	40	< 0.5	< 2	0.31	< 0.5	6	23	14	5.83	10	< 1	0.07	10	0.60	205
F15-L15 06+50	201 202	< 5	< 0.2	3.67	6	70	0.5	< 2	0.05	< 0.5	10	15	57	5.03	< 10	< 1	0.07	10	0.10	580
F15-L15 06+75	201 202	< 5	0.2	4.28	< 2	10	0.5	< 2	0.11	< 0.5	5	21	4	6.33	30	< 1	0.06	30	0.32	420
F15-L15 07+00	201 202	< 5	0.2	5.41	< 2	40	1.0	< 2	0.27	< 0.5	13	36	24	6.52	20	< 1	0.08	10	0.53	685
F15-L15 07+25	201 202	< 5	0.6	6.87	< 2	20	2.0	< 2	0.07	< 0.5	6	16	< 1	6.16	30	< 1	0.05	30	0.13	625
F15-L15 07+50	201 202	< 5	0.4	5.31	< 2	30	0.5	< 2	0.25	< 0.5	17	39	21	6.85	20	< 1	0.06	10	0.59	995
F15-L15 07+75	201 202	< 5	< 0.2	5.31	< 2	50	1.0	< 2	0.27	< 0.5	12	31	17	6.73	20	< 1	0.05	10	0.63	490
F15-L15 08+00	201 202	< 5	1.8	4.64	< 2	40	0.5	< 2	0.15	< 0.5	7	27	14	5.57	10	< 1	0.04	10	0.40	325
F15-L15 08+25	201 202	< 5	0.8	4.06	< 2	90	0.5	< 2	0.08	< 0.5	11	40	29	6.36	10	< 1	0.07	10	0.50	645
F15-L15 08+50	201 202	< 5	0.6	5.82	< 2	40	1.5	< 2	0.11	< 0.5	7	23	16	5.91	30	< 1	0.06	40	0.23	405
F15-L15 08+75	201 202	< 5	1.6	3.52	< 2	60	0.5	< 2	0.08	< 0.5	17	35	42	6.35	10	< 1	0.08	10	0.34	1135
F15-L15 09+00	201 202	< 5	0.4	3.07	< 2	70	0.5	< 2	0.09	< 0.5	13	27	235	5.93	10	< 1	0.09	< 10	0.62	1185
F15-L15 09+25	201 202	10	< 0.2	3.40	14	60	1.5	< 2	0.15	< 0.5	32	20	213	6.87	10	< 1	0.08	10	1.24	2170
F15-L15 09+50	201 202	< 5	< 0.2	4.68	< 2	60	0.5	< 2	0.12	< 0.5	7	37	23	6.22	10	< 1	0.03	10	0.31	310
F15-L15 09+75	201 202	< 5	0.2	4.43	< 2	50	0.5	< 2	0.05	< 0.5	11	34	25	5.78	20	< 1	0.06	20	0.27	1050
F15-L15 10+00	201 202	< 5	0.2	3.38	< 2	50	0.5	< 2	0.06	< 0.5	14	39	23	4.76	10	< 1	0.07	10	0.59	1130
F15-L15 10+25	201 202	< 5	0.8	2.71	< 2	100	< 0.5	< 2	0.14	< 0.5	10	30	14	5.99	10	< 1	0.08	< 10	0.40	750
F15-L15 10+50	201 202	< 5	0.8	2.86	6	130	0.5	< 2	0.06	< 0.5	8	13	32	4.09	< 10	< 1	0.08	< 10	0.13	685
F15-L15 10+75	201 202	< 5	2.4	5.26	< 2	40	1.5	< 2	0.10	< 0.5	7	30	11	6.39	30	< 1	0.05	20	0.14	565
F15-L15 11+00	201 202	< 5	1.6	4.36	< 2	20	0.5	< 2	0.08	< 0.5	5	29	12	6.58	30	< 1	0.06	20	0.18	600
F15-L15 11+25	201 202	< 5	1.6	4.76	< 2	30	1.0	< 2	0.13	< 0.5	8	16	9	6.03	20	< 1	0.05	10	0.26	405
F15-L15 11+50	201 202	< 5	1.2	4.24	< 2	70	0.5	< 2	0.23	< 0.5	21	23	25	5.59	10	< 1	0.07	10	0.72	1555
F15-L15 11+75	201 202	< 5	1.4	3.43	< 2	60	0.5	< 2	0.17	< 0.5	14	26	20	5.11	10	< 1	0.06	< 10	0.52	1140

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: CANAMERA GEOLOGICAL LTD.
ATTN: DAVID AWRAM
220 CAMBIE ST., SUITE 650
VANCOUVER, BC
V6B 2M9

Project: FD6CA0052
Comments:

Page Number :4-B
Total Pages :9
Certificate Date: 06-OCT-96
Invoice No. : I9633567
P.O. Number : 8026
Account : KBOA

CERTIFICATE OF ANALYSIS

A9633567

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
F15-L14 07+50	201 202	5	0.01	8	1200	12	2	6	9	0.32	< 10	< 10	77	< 10	84
F15-L14 07+75	201 202	3	0.03	16	1120	6	2	6	20	0.40	< 10	< 10	107	< 10	78
F15-L14 08+00	201 202	4	0.02	11	910	6	2	7	19	0.45	< 10	< 10	108	< 10	64
F15-L14 08+25	201 202	5	0.01	13	1690	10	2	7	11	0.12	< 10	< 10	102	< 10	118
F15-L14 08+50	201 202	4	0.03	20	1780	12	4	4	17	0.08	< 10	< 10	72	< 10	124
F15-L14 08+75	201 202	4	0.05	16	1290	8	2	10	23	0.46	< 10	< 10	120	< 10	112
F15-L14 09+00	201 202	3	0.06	12	1240	4	2	10	30	0.49	< 10	< 10	124	< 10	68
F15-L14 11+75	201 202	4	< 0.01	21	1000	6	2	4	8	0.11	< 10	< 10	37	< 10	60
F15-L14 12+00	201 202	3	< 0.01	42	620	8	4	3	12	0.13	< 10	< 10	61	< 10	84
F15-L14 12+25	201 202	3	< 0.01	38	980	10	2	4	12	0.11	< 10	< 10	61	< 10	82
F15-L14 12+50	201 202	2	0.03	16	1100	4	2	8	23	0.56	< 10	< 10	108	< 10	66
F15-L14 12+75	201 202	2	0.05	24	1390	6	2	12	29	0.65	< 10	< 10	132	< 10	74
F15-L15 04+75	201 202	4	< 0.01	4	1560	30	4	4	15	0.23	< 10	< 10	172	< 10	40
F15-L15 05+00	201 202	6	0.04	34	4150	40	6	9	35	0.12	< 10	< 10	105	< 10	164
F15-L15 05+25	201 202	2	0.03	10	1400	12	6	5	28	0.46	< 10	< 10	121	< 10	78
F15-L15 05+50	201 202	5	< 0.01	12	1050	24	2	2	8	0.20	< 10	< 10	139	< 10	82
F15-L15 06+00	201 202	2	0.04	8	1100	< 2	2	10	24	0.72	< 10	< 10	132	< 10	38
F15-L15 06+25	201 202	1	0.06	7	1120	2	6	8	28	0.66	< 10	< 10	121	< 10	38
F15-L15 06+50	201 202	5	0.01	8	680	18	2	5	7	0.04	< 10	< 10	37	< 10	94
F15-L15 06+75	201 202	6	0.02	10	760	10	2	5	10	0.35	< 10	< 10	67	< 10	68
F15-L15 07+00	201 202	4	0.05	10	1200	8	2	10	26	0.54	< 10	< 10	131	< 10	74
F15-L15 07+25	201 202	6	0.04	6	930	10	2	4	8	0.17	< 10	< 10	25	< 10	84
F15-L15 07+50	201 202	4	0.04	10	1220	6	4	9	24	0.57	< 10	< 10	143	< 10	84
F15-L15 07+75	201 202	2	0.04	9	1070	4	2	9	27	0.54	< 10	< 10	147	< 10	74
F15-L15 08+00	201 202	5	0.01	11	1140	4	2	5	16	0.36	< 10	< 10	155	< 10	82
F15-L15 08+25	201 202	6	0.01	19	1360	16	2	4	14	0.14	< 10	< 10	125	< 10	150
F15-L15 08+50	201 202	5	0.02	7	1500	10	2	5	13	0.27	< 10	< 10	56	< 10	82
F15-L15 08+75	201 202	5	0.01	11	1170	12	2	4	12	0.24	< 10	< 10	132	< 10	80
F15-L15 09+00	201 202	6	0.01	15	2300	18	4	5	10	0.03	< 10	< 10	110	< 10	118
F15-L15 09+25	201 202	6	< 0.01	14	2200	26	4	12	13	0.01	< 10	< 10	130	< 10	104
F15-L15 09+50	201 202	4	< 0.01	14	1330	8	< 2	4	10	0.24	< 10	< 10	84	< 10	52
F15-L15 09+75	201 202	4	0.01	16	910	14	2	4	9	0.18	< 10	< 10	58	< 10	98
F15-L15 10+00	201 202	3	< 0.01	35	1460	10	< 2	4	10	0.20	< 10	< 10	65	< 10	98
F15-L15 10+25	201 202	4	0.04	16	960	8	2	3	20	0.17	< 10	< 10	82	< 10	62
F15-L15 10+50	201 202	3	0.01	6	1100	6	< 2	5	9	< 0.01	< 10	< 10	44	< 10	98
F15-L15 10+75	201 202	5	0.01	6	1220	10	2	5	12	0.32	< 10	< 10	74	< 10	84
F15-L15 11+00	201 202	6	0.04	7	1000	12	2	4	11	0.33	< 10	< 10	71	< 10	74
F15-L15 11+25	201 202	4	0.05	5	840	8	2	5	14	0.36	< 10	< 10	70	< 10	54
F15-L15 11+50	201 202	3	0.05	12	1610	6	2	8	23	0.49	< 10	< 10	126	< 10	100
F15-L15 11+75	201 202	2	0.03	16	1070	4	< 2	4	17	0.33	< 10	< 10	101	< 10	78

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: CANAMERA GEOLOGICAL LTD.
 ATTN: DAVID AWRAM
 220 GAMBIE ST., SUITE 650
 VANCOUVER, BC
 V6B 2M9

Page Number :5-A
 Total Pages :9
 Certificate Date: 06-OCT-96
 Invoice No. :I9633567
 P.O. Number :8026
 Account :KBOA

Project : FD6CA0052
 Comments :

CERTIFICATE OF ANALYSIS A9633567

SAMPLE	PREP CODE	Au-AA ppb	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
F15-L15 12+25	201 202	< 5	0.6	4.76	< 2	30	1.0	< 2	0.05	< 0.5	20	31	12	6.78	30	< 1	0.06	30	0.19	2000
F15-L15 12+50	201 202	< 5	0.2	3.29	14	80	0.5	< 2	0.11	< 0.5	11	34	24	7.76	10	< 1	0.09	< 10	0.39	575
F15-L15 12+75	201 202	65	0.4	3.37	16	70	1.5	< 2	0.11	< 0.5	20	23	39	5.56	10	< 1	0.08	10	0.77	1855
F15-L15 13+25	201 202	< 5	0.2	3.81	< 2	40	0.5	< 2	0.20	< 0.5	4	22	9	5.26	10	< 1	0.04	10	0.27	120
F15-L15 13+50	201 202	< 5	1.4	2.87	< 2	40	< 0.5	< 2	0.05	< 0.5	10	22	15	5.07	10	< 1	0.07	< 10	0.35	830
F15-L15 14+00	201 202	< 5	< 0.2	4.41	< 2	50	0.5	< 2	0.21	< 0.5	8	25	12	4.95	10	< 1	0.05	< 10	0.52	340
F15-L15 14+25	201 202	< 5	< 0.2	3.77	6	80	1.0	< 2	0.04	< 0.5	22	47	42	5.67	10	< 1	0.08	20	0.81	1665
F15-L15 14+50	201 202	< 5	0.2	3.21	< 2	40	0.5	< 2	0.14	< 0.5	12	22	15	4.90	10	< 1	0.08	< 10	0.41	535
F15-L16 05+25	201 202	< 5	1.0	4.26	10	50	0.5	< 2	0.09	< 0.5	10	41	42	6.87	20	< 1	0.04	10	0.41	760
F15-L16 05+50	201 202	< 5	< 0.2	4.51	< 2	30	1.0	< 2	0.10	< 0.5	18	36	23	7.44	30	< 1	0.05	30	0.26	1910
F15-L16 06+00	201 202	< 5	0.2	4.24	< 2	20	0.5	< 2	0.20	< 0.5	6	23	12	6.56	30	< 1	0.06	20	0.40	310
F15-L16 06+25	201 202	< 5	< 0.2	2.73	< 2	50	< 0.5	< 2	0.08	< 0.5	6	33	14	7.31	30	< 1	0.04	10	0.29	670
F15-L16 06+50	201 202	< 5	< 0.2	4.22	< 2	70	0.5	< 2	0.08	< 0.5	15	78	16	6.52	10	< 1	0.04	< 10	0.49	1770
F15-L16 06+75	201 202	< 5	0.2	4.38	< 2	20	0.5	< 2	0.16	< 0.5	8	38	21	7.49	30	< 1	0.05	20	0.39	430
F15-L16 07+00	201 202	< 5	0.2	4.47	< 2	30	0.5	< 2	0.24	< 0.5	8	27	25	7.02	20	< 1	0.06	20	0.77	380
F15-L16 07+25	201 202	< 5	0.2	5.05	< 2	10	1.0	< 2	0.10	< 0.5	11	34	15	7.30	30	< 1	0.05	30	0.18	685
F15-L16 07+50	201 202	< 5	0.2	5.17	< 2	70	1.0	< 2	0.42	< 0.5	16	24	29	6.84	10	< 1	0.10	10	0.85	550
F15-L16 07+75	201 202	< 5	< 0.2	3.99	< 2	60	0.5	< 2	0.11	< 0.5	21	30	19	6.25	10	< 1	0.06	10	0.41	1405
F15-L16 08+00	201 202	< 5	0.2	4.68	< 2	40	1.5	< 2	0.12	< 0.5	18	26	9	6.08	20	< 1	0.05	40	0.27	1925
F15-L16 08+50	201 202	< 5	< 0.2	4.14	< 2	50	0.5	< 2	0.23	< 0.5	17	24	16	6.03	20	< 1	0.07	10	0.61	1380
F15-L16 08+75	201 202	< 5	< 0.2	5.04	< 2	30	0.5	< 2	0.29	< 0.5	15	24	16	6.38	10	< 1	0.06	10	0.79	800
F15-L16 09+00	201 202	< 5	0.2	3.23	< 2	70	0.5	< 2	0.08	< 0.5	19	36	17	5.45	10	< 1	0.06	10	0.44	1250
F15-L16 09+50	201 202	< 5	1.4	3.22	< 2	30	< 0.5	< 2	0.12	< 0.5	5	25	9	7.72	30	< 1	0.05	10	0.30	255
F15-L16 09+75	201 202	< 5	2.0	2.91	12	90	0.5	< 2	0.12	0.5	7	17	28	4.60	< 10	< 1	0.06	< 10	0.29	515
F15-L16 10+00	201 202	< 5	0.4	4.22	< 2	100	0.5	< 2	0.27	0.5	10	27	19	5.29	10	< 1	0.06	10	0.48	490
F15-L16 10+25	201 202	< 5	0.2	4.14	< 2	40	0.5	< 2	0.07	< 0.5	9	39	12	5.74	10	< 1	0.04	10	0.40	535
F15-L16 10+50	201 202	< 5	< 0.2	2.75	8	130	0.5	< 2	0.10	< 0.5	21	12	48	7.00	< 10	< 1	0.12	10	0.11	1415
F15-L16 10+75	201 202	< 5	0.6	4.33	< 2	30	0.5	< 2	0.08	< 0.5	8	34	17	7.40	30	< 1	0.06	40	0.19	545
F15-L16 11+00	201 202	< 5	0.8	4.39	< 2	10	0.5	< 2	0.03	< 0.5	3	23	13	7.24	30	< 1	0.05	30	0.08	260
F15-L16 11+25	201 202	< 5	0.8	2.91	< 2	50	< 0.5	< 2	0.20	< 0.5	7	22	13	5.28	10	< 1	0.05	< 10	0.43	400
F15-L16 11+50	201 202	< 5	1.2	2.76	14	70	< 0.5	< 2	0.04	< 0.5	5	15	22	6.11	< 10	< 1	0.07	< 10	0.08	375
F15-L16 11+75	201 202	< 5	1.0	3.96	< 2	40	0.5	< 2	0.09	< 0.5	15	36	19	6.17	20	< 1	0.06	10	0.38	895
F15-L16 12+25	201 202	< 5	0.6	4.78	< 2	10	0.5	< 2	0.06	< 0.5	3	30	6	6.95	30	< 1	0.03	20	0.17	295
F15-L16 12+50	201 202	< 5	< 0.2	4.56	< 2	50	0.5	< 2	0.28	< 0.5	7	24	16	4.93	10	< 1	0.04	10	0.52	270
F15-L16 13+00	201 202	< 5	< 0.2	4.10	< 2	40	1.5	< 2	0.17	< 0.5	10	30	14	6.02	30	< 1	0.06	50	0.54	535
F15-L16 13+50	201 202	< 5	0.2	5.36	< 2	30	2.0	< 2	0.15	< 0.5	4	21	5	5.15	30	< 1	0.04	40	0.11	145
F15-L16 13+75	201 202	< 5	0.2	5.03	< 2	40	2.5	< 2	0.39	< 0.5	8	22	13	6.36	10	< 1	0.05	30	0.78	225
F15-L16 14+00	201 202	< 5	< 0.2	5.71	< 2	50	1.5	< 2	0.55	< 0.5	7	24	14	6.11	20	< 1	0.06	10	0.74	225
F15-L17 05+00	201 202	< 5	0.4	4.32	< 2	30	0.5	< 2	0.20	< 0.5	14	22	16	6.70	20	< 1	0.04	< 10	0.58	815
F15-L17 05+25	201 202	< 5	0.2	5.03	< 2	60	2.0	< 2	0.19	1.0	5	19	12	6.03	30	< 1	0.04	40	0.13	405

CERTIFICATION:

David Buchler



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: CANAMERA GEOLOGICAL LTD.
ATTN: DAVID AWRAM
220 CAMBIE ST., SUITE 650
VANCOUVER, BC
V6B 2M9

Project : FD6CA0052
Comments:

Page Number :5-B
Total Pages :9
Certificate Date: 06-OCT-96
Invoice No. : I9633567
P.O. Number : 8026
Account : KBOA

CERTIFICATE OF ANALYSIS

A9633567

SAMPLE	PREP		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
F15-L15 12+25	201	202	5	0.02	8	930	14	2	4	9	0.29	< 10	< 10	71	< 10	96
F15-L15 12+50	201	202	4	< 0.01	16	1460	24	< 2	3	14	0.07	< 10	< 10	97	< 10	74
F15-L15 12+75	201	202	5	0.01	16	2040	104	2	5	11	0.09	< 10	< 10	77	< 10	158
F15-L15 13+25	201	202	1	0.01	7	1100	8	2	6	23	0.55	< 10	< 10	116	< 10	40
F15-L15 13+50	201	202	2	< 0.01	8	1130	8	2	2	8	0.08	< 10	< 10	72	< 10	64
F15-L15 14+00	201	202	2	0.03	10	1010	2	2	5	19	0.33	< 10	< 10	100	< 10	64
F15-L15 14+25	201	202	3	0.01	53	780	16	4	6	10	0.06	< 10	< 10	50	< 10	172
F15-L15 14+50	201	202	3	0.03	10	940	8	< 2	5	15	0.20	< 10	< 10	87	< 10	76
F15-L16 05+25	201	202	6	< 0.01	19	1140	42	4	6	11	0.18	< 10	< 10	107	< 10	134
F15-L16 05+50	201	202	10	0.01	7	1120	14	2	8	13	0.38	< 10	< 10	112	< 10	94
F15-L16 06+00	201	202	5	0.06	5	800	10	2	7	19	0.43	< 10	< 10	87	< 10	48
F15-L16 06+25	201	202	4	< 0.01	11	620	14	2	4	12	0.47	< 10	< 10	144	< 10	62
F15-L16 06+50	201	202	3	< 0.01	27	850	14	2	6	12	0.32	< 10	< 10	131	< 10	92
F15-L16 06+75	201	202	4	0.02	6	860	12	< 2	9	16	0.51	< 10	< 10	124	< 10	50
F15-L16 07+00	201	202	3	0.06	10	830	6	2	9	24	0.47	< 10	< 10	122	< 10	44
F15-L16 07+25	201	202	6	0.04	5	1110	12	2	6	10	0.35	< 10	< 10	88	< 10	84
F15-L16 07+50	201	202	3	0.10	14	1450	6	4	12	43	0.72	< 10	< 10	138	< 10	128
F15-L16 07+75	201	202	4	0.01	11	1250	10	2	7	13	0.28	< 10	< 10	125	< 10	118
F15-L16 08+00	201	202	5	0.01	12	1630	14	2	5	14	0.24	< 10	< 10	74	< 10	120
F15-L16 08+50	201	202	5	0.04	11	1030	8	4	5	25	0.44	< 10	< 10	126	< 10	80
F15-L16 08+75	201	202	4	0.05	11	1170	2	2	8	28	0.57	< 10	< 10	139	< 10	68
F15-L16 09+00	201	202	5	< 0.01	23	1490	14	2	3	11	0.08	< 10	< 10	90	< 10	182
F15-L16 09+50	201	202	7	0.03	4	630	14	2	5	12	0.36	< 10	< 10	109	< 10	60
F15-L16 09+75	201	202	8	0.01	11	1600	8	2	4	15	0.19	< 10	< 10	84	< 10	154
F15-L16 10+00	201	202	4	0.03	12	1430	6	2	8	25	0.40	< 10	< 10	116	< 10	112
F15-L16 10+25	201	202	4	0.01	24	910	12	2	4	9	0.18	< 10	< 10	54	< 10	82
F15-L16 10+50	201	202	1	0.01	11	1840	18	2	7	11	< 0.01	< 10	< 10	39	< 10	122
F15-L16 10+75	201	202	5	0.03	7	930	12	< 2	7	10	0.36	< 10	< 10	91	< 10	128
F15-L16 11+00	201	202	6	0.01	< 1	990	14	2	5	6	0.34	< 10	< 10	63	< 10	76
F15-L16 11+25	201	202	3	0.02	7	1240	6	2	3	20	0.46	< 10	< 10	127	< 10	54
F15-L16 11+50	201	202	6	< 0.01	13	1370	2	2	3	6	0.02	< 10	< 10	40	< 10	124
F15-L16 11+75	201	202	4	0.02	13	980	12	2	6	12	0.27	< 10	< 10	86	< 10	80
F15-L16 12+25	201	202	5	0.01	7	750	12	2	5	7	0.16	< 10	< 10	35	< 10	40
F15-L16 12+50	201	202	1	0.04	9	990	< 2	2	6	24	0.49	< 10	< 10	113	< 10	58
F15-L16 13+00	201	202	4	0.04	10	930	10	6	8	16	0.53	< 10	< 10	112	< 10	52
F15-L16 13+50	201	202	12	0.01	10	720	16	2	5	17	0.27	< 10	< 10	39	< 10	96
F15-L16 13+75	201	202	3	0.06	9	960	< 2	2	9	35	0.69	< 10	< 10	131	< 10	46
F15-L16 14+00	201	202	3	0.06	10	990	2	6	10	48	0.60	< 10	< 10	111	< 10	48
F15-L17 05+00	201	202	2	0.04	9	1150	8	2	7	22	0.53	< 10	< 10	165	< 10	48
F15-L17 05+25	201	202	6	0.03	5	730	12	6	4	15	0.21	< 10	< 10	48	< 10	108

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: CANAMERA GEOLOGICAL LTD.
 ATTN: DAVID AWRAM
 220 CAMBIE ST., SUITE 650
 VANCOUVER, BC
 V6B 2M9

Page Number :6-A
 Total Pages :9
 Certificate Date: 06-OCT-96
 Invoice No. : I9633567
 P.O. Number : 8026
 Account : KBOA

Project : FD6CA0052
 Comments :

CERTIFICATE OF ANALYSIS A9633567

SAMPLE	PREP CODE	Au-AA ppb	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
F15-L17 05+50	201 202	< 5	0.6	4.04	2	80	1.5	< 2	0.32	< 0.5	21	26	27	6.73	10	< 1	0.08	30	0.49	2040
F15-L17 05+75	201 202	< 5	0.6	2.00	26	60	0.5	< 2	0.02	< 0.5	17	20	87	5.36	< 10	< 1	0.05	10	0.38	2110
F15-L17 06+00	201 202	< 5	0.2	4.22	< 2	10	0.5	< 2	0.07	< 0.5	2	35	19	9.87	40	< 1	0.04	20	0.17	350
F15-L17 06+25	201 202	< 5	0.2	4.08	< 2	10	1.0	< 2	0.06	< 0.5	1	9	4	5.48	20	< 1	0.08	30	0.08	385
F15-L17 06+50	201 202	< 5	< 0.2	5.28	< 2	90	1.5	< 2	0.35	1.5	17	28	31	6.49	20	< 1	0.10	20	0.73	970
F15-L17 06+75	201 202	< 5	0.2	5.11	< 2	10	0.5	< 2	0.04	< 0.5	7	15	12	5.65	20	< 1	0.05	20	0.06	1220
F15-L17 07+00	201 202	< 5	0.2	5.35	< 2	40	0.5	< 2	0.33	< 0.5	8	27	19	6.69	20	< 1	0.07	10	0.63	315
F15-L17 07+25	201 202	< 5	< 0.2	5.41	< 2	40	< 0.5	< 2	0.36	< 0.5	7	26	19	6.04	10	< 1	0.06	10	0.78	225
F15-L17 07+50	201 202	< 5	0.2	3.87	< 2	50	0.5	< 2	0.13	< 0.5	8	31	22	4.76	20	< 1	0.09	10	0.42	505
F15-L17 07+75	201 202	< 5	< 0.2	3.66	< 2	10	0.5	< 2	0.10	< 0.5	4	23	11	8.08	30	< 1	0.08	20	0.24	705
F15-L17 08+00	201 202	< 5	0.4	5.24	< 2	30	1.5	< 2	0.15	< 0.5	5	18	31	6.33	20	< 1	0.09	10	0.29	275
F15-L17 08+25	201 202	< 5	3.4	4.22	8	40	2.0	< 2	0.05	< 0.5	6	31	23	5.27	20	< 1	0.06	30	0.36	260
F15-L17 08+50	201 202	< 5	0.2	4.33	< 2	40	1.0	< 2	0.08	< 0.5	13	24	19	6.20	20	< 1	0.05	20	0.31	1445
F15-L17 08+75	201 202	< 5	0.2	2.68	16	50	0.5	< 2	0.04	< 0.5	17	20	57	7.29	10	< 1	0.08	10	0.19	1510
F15-L17 09+00	201 202	5	< 0.2	2.22	12	110	0.5	< 2	0.07	< 0.5	23	17	117	6.28	< 10	< 1	0.11	20	0.25	1735
F15-L17 09+25	201 202	< 5	0.2	2.28	18	90	0.5	< 2	0.10	< 0.5	15	12	66	4.90	< 10	< 1	0.09	10	0.13	1025
F15-L17 09+50	201 202	< 5	< 0.2	3.51	< 2	60	1.5	< 2	0.24	< 0.5	12	37	28	5.18	10	< 1	0.07	30	0.85	605
F15-L17 09+75	201 202	< 5	0.8	3.27	2	100	0.5	< 2	0.09	< 0.5	11	27	19	7.90	10	< 1	0.05	30	0.26	855
F15-L17 10+00	201 202	< 5	1.4	3.03	4	80	0.5	< 2	0.06	< 0.5	11	23	26	5.97	10	< 1	0.09	10	0.25	655
F15-L17 10+75	201 202	< 5	0.8	4.98	< 2	80	0.5	< 2	0.35	< 0.5	10	23	27	6.14	10	< 1	0.11	< 10	0.67	650
F15-L17 11+00	201 202	< 5	0.8	5.04	< 2	50	0.5	< 2	0.25	< 0.5	5	27	21	6.02	10	< 1	0.09	10	0.54	230
F15-L17 11+50	201 202	5	5.6	4.94	< 2	120	2.0	< 2	0.16	4.5	30	33	63	5.34	10	< 1	0.07	30	0.52	2220
F15-L17 11+75	201 202	< 5	0.2	4.20	< 2	40	< 0.5	< 2	0.34	< 0.5	7	24	15	6.37	10	< 1	0.09	< 10	0.64	340
F15-L17 12+00	201 202	< 5	< 0.2	1.28	< 2	80	0.5	< 2	0.07	< 0.5	6	3	9	3.93	< 10	< 1	0.12	30	0.08	1820
F15-L17 12+25	201 202	< 5	< 0.2	3.13	< 2	120	< 0.5	< 2	0.08	< 0.5	8	33	25	5.81	< 10	< 1	0.10	< 10	0.23	390
F15-L17 12+50	201 202	< 5	< 0.2	4.64	< 2	60	0.5	< 2	0.09	< 0.5	5	53	18	5.21	10	< 1	0.04	10	0.37	245
F15-L17 12+75	201 202	< 5	0.4	3.03	< 2	60	< 0.5	< 2	0.20	< 0.5	4	30	13	4.57	10	< 1	0.05	10	0.42	140
F15-L17 13+00	201 202	< 5	0.2	5.07	< 2	40	0.5	< 2	0.24	< 0.5	5	29	13	5.58	20	< 1	0.05	10	0.49	230
F15-L17 13+25	201 202	< 5	< 0.2	4.51	< 2	40	2.5	< 2	0.08	< 0.5	5	21	16	5.15	20	< 1	0.06	40	0.21	580
F15-L17 13+50	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
F15-L17 13+75	201 202	< 5	< 0.2	3.97	< 2	40	0.5	< 2	0.10	< 0.5	6	48	16	5.71	20	< 1	0.05	10	0.58	320
F15-18+00N05+25E	201 202	< 5	2.8	2.18	38	90	0.5	< 2	0.43	< 0.5	15	91	71	4.60	< 10	< 1	0.17	10	0.24	2810
F15-18+00N05+50E	201 202	< 5	2.6	2.24	10	130	0.5	< 2	0.11	< 0.5	20	12	28	6.29	< 10	< 1	0.05	10	0.42	4900
F15-18+00N05+75E	201 202	< 5	0.8	3.15	< 2	80	0.5	< 2	0.18	< 0.5	20	25	14	6.43	20	< 1	0.07	10	0.42	3160
F15-18+00N06+00E	201 202	< 5	1.0	3.85	4	50	0.5	< 2	0.07	< 0.5	15	31	21	6.25	20	< 1	0.06	10	0.45	1445
F15-18+00N06+25E	201 202	< 5	1.6	4.96	< 2	20	1.0	< 2	0.05	< 0.5	10	23	20	6.72	30	< 1	0.06	30	0.20	825
F15-18+00N06+50E	201 202	< 5	0.6	4.65	< 2	10	1.0	< 2	0.06	< 0.5	6	17	7	6.86	30	< 1	0.07	30	0.13	935
F15-18+00N06+75E	201 202	< 5	1.2	4.79	< 2	120	1.5	< 2	0.07	1.5	12	23	20	7.47	20	< 1	0.06	30	0.22	4440
F15-18+00N07+00E	201 202	< 5	0.4	4.21	< 2	90	1.5	< 2	0.16	0.5	8	36	22	5.20	10	< 1	0.06	30	0.50	360
F15-18+00N07+25E	201 202	< 5	0.8	4.93	< 2	50	3.5	< 2	0.07	0.5	13	18	17	6.20	30	< 1	0.07	70	0.21	1340

CERTIFICATION: Hart Bickler



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: CANAMERA GEOLOGICAL LTD.
ATTN: DAVID AWRAM
220 CAMBIE ST., SUITE 650
VANCOUVER, BC
V6B 2M9

Project : FD6CA0052
Comments:

Page Number :6-B
Total Pages :9
Certificate Date: 06-OCT-96
Invoice No. : 19633567
P.O. Number :8026
Account :KBOA

CERTIFICATE OF ANALYSIS A9633567

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
F15-L17 05+50	201 202	8	0.01	16	2330	20	4	7	27	0.22	< 10	< 10	114	< 10	168
F15-L17 05+75	201 202	7	< 0.01	21	1410	20	4	9	5	0.04	< 10	< 10	130	< 10	124
F15-L17 06+00	201 202	6	< 0.01	4	1000	12	6	6	10	0.36	< 10	< 10	95	< 10	60
F15-L17 06+25	201 202	7	0.06	1	490	14	2	3	6	0.15	< 10	< 10	19	< 10	78
F15-L17 06+50	201 202	4	0.05	25	1740	6	2	11	36	0.65	< 10	< 10	130	< 10	266
F15-L17 06+75	201 202	6	0.04	1	710	10	2	5	4	0.18	< 10	< 10	22	< 10	84
F15-L17 07+00	201 202	3	0.07	9	1050	6	4	10	31	0.62	< 10	< 10	125	< 10	54
F15-L17 07+25	201 202	2	0.05	9	980	2	4	8	30	0.73	< 10	< 10	127	< 10	38
F15-L17 07+50	201 202	4	0.03	14	1600	16	2	5	15	0.32	< 10	< 10	89	< 10	96
F15-L17 07+75	201 202	6	0.04	3	870	14	6	5	11	0.42	< 10	< 10	77	< 10	64
F15-L17 08+00	201 202	5	0.06	7	1060	10	6	8	16	0.42	< 10	< 10	74	< 10	94
F15-L17 08+25	201 202	6	0.03	22	1130	16	2	6	9	0.21	< 10	< 10	60	< 10	148
F15-L17 08+50	201 202	5	0.03	10	990	14	4	5	11	0.27	< 10	< 10	72	< 10	86
F15-L17 08+75	201 202	6	0.01	16	1460	26	4	5	8	0.09	< 10	< 10	53	< 10	104
F15-L17 09+00	201 202	2	< 0.01	18	1720	28	6	5	9	0.01	< 10	< 10	47	< 10	126
F15-L17 09+25	201 202	4	0.01	7	1400	12	2	2	12	0.04	< 10	< 10	61	< 10	62
F15-L17 09+50	201 202	3	0.04	49	1290	10	4	8	22	0.31	< 10	< 10	77	< 10	176
F15-L17 09+75	201 202	6	0.01	13	2180	22	6	4	14	0.05	< 10	< 10	112	< 10	96
F15-L17 10+00	201 202	3	0.01	13	940	12	6	3	9	0.08	< 10	< 10	76	< 10	90
F15-L17 10+75	201 202	5	0.08	11	1720	6	4	12	34	0.61	< 10	< 10	133	< 10	112
F15-L17 11+00	201 202	4	0.04	8	1540	6	2	8	24	0.64	< 10	< 10	126	< 10	68
F15-L17 11+50	201 202	7	0.01	58	1630	12	6	9	18	0.23	< 10	< 10	76	< 10	462
F15-L17 11+75	201 202	2	0.08	11	1280	6	2	7	36	0.65	< 10	< 10	130	< 10	68
F15-L17 12+00	201 202	< 1	0.01	3	960	44	2	1	7	< 0.01	< 10	< 10	13	< 10	66
F15-L17 12+25	201 202	< 1	< 0.01	9	1340	2	4	6	8	0.01	< 10	< 10	86	< 10	62
F15-L17 12+50	201 202	2	< 0.01	19	780	8	2	5	14	0.34	< 10	< 10	100	< 10	50
F15-L17 12+75	201 202	1	0.01	10	810	8	2	5	21	0.50	< 10	< 10	110	< 10	36
F15-L17 13+00	201 202	3	0.04	8	1020	4	2	7	24	0.57	< 10	< 10	113	< 10	42
F15-L17 13+25	201 202	5	0.04	17	590	14	4	5	9	0.12	< 10	< 10	22	< 10	88
F15-L17 13+50	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
F15-L17 13+75	201 202	3	0.01	31	1060	8	4	5	12	0.25	< 10	< 10	79	< 10	62
F15-18+00N05+25E	201 202	9	0.01	60	4900	56	6	1	18	0.03	< 10	< 10	99	< 10	130
F15-18+00N05+50E	201 202	7	0.01	19	1260	32	6	6	12	0.06	< 10	< 10	99	< 10	58
F15-18+00N05+75E	201 202	4	0.04	10	1200	16	2	4	22	0.33	< 10	< 10	121	< 10	106
F15-18+00N06+00E	201 202	6	< 0.01	25	1320	18	2	3	10	0.16	< 10	< 10	79	< 10	188
F15-18+00N06+25E	201 202	6	0.03	11	920	14	4	6	8	0.26	< 10	< 10	64	< 10	134
F15-18+00N06+50E	201 202	7	0.05	2	600	16	2	4	7	0.26	< 10	< 10	49	< 10	70
F15-18+00N06+75E	201 202	7	0.01	18	1170	12	6	8	11	0.26	< 10	< 10	91	< 10	248
F15-18+00N07+00E	201 202	7	0.01	33	960	12	2	6	19	0.15	< 10	< 10	72	< 10	418
F15-18+00N07+25E	201 202	5	0.03	11	1170	18	2	5	11	0.24	< 10	< 10	45	< 10	136

CERTIFICATION:

Hart Bickler



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: CANAMERA GEOLOGICAL LTD.
ATTN: DAVID AWRAM
220 CAMBIE ST., SUITE 650
VANCOUVER, BC
V6B 2M9

Project : FD6CA0052
Comments:

Page Number :7-A
Total Pages :9
Certificate Date:06-OCT-96
Invoice No. :19633567
P.O. Number :8026
Account :KBOA

CERTIFICATE OF ANALYSIS

A9633567

SAMPLE	PREP CODE	Au-AA ppb	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
F15-18+00N07+50E	201 202	< 5	0.4	4.95	2	50	1.5	< 2	0.28	< 0.5	16	27	23	6.29	20	2	0.10	20	0.56	645
F15-18+00N07+75E	201 202	< 5	1.8	5.14	16	30	2.0	< 2	0.05	< 0.5	15	19	13	6.01	20	< 1	0.07	40	0.23	1340
F15-18+00N08+25E	201 202	< 5	0.8	5.20	16	30	2.0	< 2	0.14	< 0.5	5	25	27	5.39	20	< 1	0.06	30	0.17	375
F15-18+00N08+50E	201 202	< 5	0.2	4.92	< 2	50	1.0	< 2	0.24	< 0.5	11	33	24	6.55	20	< 1	0.06	10	0.44	490
F15-18+00N08+75E	201 202	< 5	0.2	4.51	4	40	0.5	< 2	0.28	< 0.5	10	31	28	5.09	10	< 1	0.07	10	0.63	380
F15-18+00N09+00E	201 202	< 5	0.2	2.70	24	90	0.5	< 2	0.03	< 0.5	17	44	51	8.30	10	< 1	0.06	< 10	0.17	640
F15-18+00N09+25E	201 202	< 5	0.8	3.93	8	30	0.5	< 2	0.05	< 0.5	5	38	15	7.84	30	3	0.05	20	0.30	385
F15-18+00N09+50E	201 202	< 5	0.6	2.39	< 2	40	< 0.5	< 2	0.06	< 0.5	5	39	14	6.15	20	4	0.08	10	0.42	285
F15-18+00N09+75E	201 202	< 5	< 0.2	5.03	4	70	1.5	< 2	0.39	< 0.5	22	24	16	6.02	10	< 1	0.11	20	0.64	760
F15-18+00N10+00E	201 202	< 5	1.2	3.33	24	80	0.5	< 2	0.04	< 0.5	20	30	36	5.14	< 10	< 1	0.09	10	0.38	675
F15-18+00N10+50E	201 202	< 5	0.2	4.26	< 2	70	0.5	< 2	0.13	< 0.5	12	26	15	4.79	10	< 1	0.07	10	0.38	390
F15-18+00N10+75E	201 202	< 5	1.2	4.64	14	10	1.0	< 2	0.05	< 0.5	6	13	10	5.13	20	< 1	0.07	20	0.10	1015
F15-18+00N11+00E	201 202	< 5	0.2	4.35	6	60	3.0	< 2	0.05	< 0.5	15	32	26	5.46	10	< 1	0.06	30	0.50	925
F15-18+00N11+50E	201 202	30	< 0.2	2.87	8	160	1.5	< 2	0.10	< 0.5	20	35	49	4.47	< 10	< 1	0.11	20	0.82	1110
F15-18+00N11+75E	201 202	< 5	< 0.2	3.26	12	60	0.5	< 2	0.08	< 0.5	15	38	17	4.90	10	2	0.05	10	0.51	790
F15-18+00N12+00E	201 202	< 5	0.6	4.49	4	20	0.5	< 2	0.05	< 0.5	7	29	15	6.82	30	2	0.05	30	0.23	530
F15-18+00N12+25E	201 202	< 5	0.2	5.10	< 2	50	0.5	< 2	0.32	< 0.5	10	25	17	6.23	10	< 1	0.08	10	0.57	230
F15-18+00N12+50E	201 202	< 5	< 0.2	4.87	4	40	0.5	< 2	0.32	< 0.5	14	47	19	7.00	10	3	0.08	30	0.72	475
F15-18+00N13+00E	201 202	< 5	< 0.2	4.27	4	40	1.0	< 2	0.11	< 0.5	14	33	20	5.58	10	< 1	0.07	20	0.57	670
F15-18+00N13+25E	201 202	< 5	1.2	5.53	10	10	1.0	< 2	0.04	< 0.5	5	10	6	6.10	30	< 1	0.05	30	0.06	855
F15-18+00N13+50E	201 202	< 5	< 0.2	3.59	12	30	0.5	< 2	0.05	< 0.5	11	50	17	6.47	10	< 1	0.05	10	0.61	625
F15-18+00N14+00E	201 202	< 5	< 0.2	4.05	4	50	1.0	< 2	0.21	0.5	23	43	26	5.60	10	< 1	0.08	10	0.85	1345
F15-18+00N14+25E	201 202	< 5	< 0.2	3.82	< 2	40	0.5	< 2	0.24	< 0.5	15	31	18	5.58	10	< 1	0.07	< 10	0.66	985
F15-19+00N05+25E	201 202	< 5	< 0.2	4.32	< 2	50	0.5	2	0.19	0.5	27	27	18	6.82	20	< 1	0.06	20	0.50	1155
F15-19+00N05+50E	201 202	< 5	0.8	4.13	8	10	0.5	< 2	0.06	< 0.5	1	25	12	7.49	40	1	0.03	20	0.06	170
F15-19+00N05+75E	201 202	< 5	0.8	4.55	14	30	0.5	< 2	0.10	< 0.5	7	26	12	5.75	20	1	0.05	30	0.25	255
F15-19+00N06+00E	201 202	< 5	0.2	3.68	6	80	2.5	2	0.21	2.0	15	28	21	5.13	10	< 1	0.07	50	0.51	1025
F15-19+00N06+25E	201 202	< 5	0.4	2.65	6	80	0.5	< 2	0.23	< 0.5	23	33	25	5.33	< 10	3	0.05	40	0.89	1340
F15-19+00N07+00E	201 202	< 5	0.6	4.05	< 2	60	1.5	< 2	0.21	< 0.5	11	21	13	4.73	10	< 1	0.05	40	0.36	420
F15-19+00N07+25E	201 202	< 5	0.8	4.03	20	30	1.5	2	0.05	< 0.5	4	17	5	5.23	20	< 1	0.09	50	0.16	485
F15-19+00N07+50E	201 202	< 5	0.2	4.79	< 2	50	0.5	2	0.31	< 0.5	9	30	13	6.60	10	3	0.08	10	0.59	275
F15-19+00N08+00E	201 202	< 5	< 0.2	4.04	4	30	1.0	< 2	0.10	< 0.5	3	31	11	6.81	30	< 1	0.05	40	0.25	325
F15-19+00N08+50E	201 202	< 5	0.2	4.66	12	30	1.5	< 2	0.12	< 0.5	10	30	11	5.94	30	1	0.05	30	0.23	675
F15-19+00N08+75E	201 202	< 5	1.4	4.16	10	30	1.0	< 2	0.12	< 0.5	9	39	23	5.33	20	< 1	0.05	10	0.38	370
F15-19+00N09+25E	201 202	< 5	< 0.2	4.59	2	90	1.0	< 2	0.50	< 0.5	25	27	15	6.22	10	3	0.11	10	0.80	640
F15-19+00N09+50E	201 202	< 5	1.0	4.43	20	30	2.0	< 2	0.09	< 0.5	9	27	15	5.55	20	5	0.06	30	0.26	340
F15-19+00N09+75E	201 202	< 5	0.8	4.90	20	40	1.5	< 2	0.06	< 0.5	8	20	8	5.60	20	1	0.06	30	0.22	750
F15-19+00N10+25E	201 202	< 5	0.6	5.11	4	30	0.5	< 2	0.06	< 0.5	7	27	14	6.53	20	< 1	0.06	20	0.29	610
F15-19+00N10+75E	201 202	5	0.4	3.75	10	80	0.5	< 2	0.17	< 0.5	26	34	20	5.92	< 10	1	0.11	10	1.86	1115
F15-19+00N11+00E	201 202	< 5	0.8	5.46	< 2	40	1.0	< 2	0.24	< 0.5	20	23	17	6.85	20	< 1	0.06	30	0.48	1220

CERTIFICATION:

David AWRAM



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: CANAMERA GEOLOGICAL LTD.
 ATTN: DAVID AWRAM
 220 CAMBIE ST., SUITE 650
 VANCOUVER, BC
 V6B 2M9

Project: FD6CA0052
 Comments:

Page Number :7-B
 Total Pages :9
 Certificate Date: 06-OCT-96
 Invoice No. :19633567
 P.O. Number :8026
 Account :KBOA

CERTIFICATE OF ANALYSIS

A9633567

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
F15-18+00N07+50E	201 202	4	0.08	11	1310	8	< 2	8	22	0.47	< 10	10	111	< 10	84
F15-18+00N07+75E	201 202	7	0.04	11	790	12	< 2	5	2	0.23	< 10	10	42	< 10	90
F15-18+00N08+25E	201 202	5	0.05	8	1010	10	< 2	7	12	0.21	< 10	< 10	42	< 10	70
F15-18+00N08+50E	201 202	3	0.04	6	1200	10	< 2	8	20	0.53	< 10	10	131	< 10	62
F15-18+00N08+75E	201 202	2	0.04	10	1260	4	< 2	8	21	0.56	< 10	10	123	< 10	50
F15-18+00N09+00E	201 202	6	< 0.01	62	1450	10	< 2	5	4	0.03	< 10	< 10	75	< 10	210
F15-18+00N09+25E	201 202	5	0.01	16	770	8	< 2	4	3	0.19	< 10	< 10	51	< 10	76
F15-18+00N09+50E	201 202	5	< 0.01	18	820	14	< 2	4	6	0.41	< 10	< 10	106	< 10	86
F15-18+00N09+75E	201 202	1	0.12	10	1050	4	< 2	10	35	0.64	< 10	10	123	< 10	78
F15-18+00N10+00E	201 202	4	< 0.01	23	1070	14	< 2	4	5	0.03	< 10	< 10	47	< 10	110
F15-18+00N10+50E	201 202	2	0.01	8	790	10	< 2	7	10	0.29	< 10	< 10	101	< 10	66
F15-18+00N10+75E	201 202	6	0.06	4	530	8	< 2	3	1	0.14	< 10	< 10	14	< 10	78
F15-18+00N11+00E	201 202	5	0.01	29	1020	14	< 2	7	4	0.19	< 10	< 10	54	< 10	106
F15-18+00N11+50E	201 202	1	0.02	33	1400	24	< 2	5	9	0.03	< 10	< 10	55	< 10	124
F15-18+00N11+75E	201 202	4	< 0.01	32	1020	10	< 2	3	7	0.14	< 10	< 10	60	< 10	106
F15-18+00N12+00E	201 202	4	0.01	8	1010	10	< 2	5	3	0.37	< 10	< 10	75	< 10	66
F15-18+00N12+25E	201 202	2	0.04	11	1250	< 2	< 2	11	27	0.71	< 10	10	132	< 10	110
F15-18+00N12+50E	201 202	3	0.04	14	1180	6	< 2	8	20	0.72	< 10	10	145	< 10	50
F15-18+00N13+00E	201 202	3	0.04	22	1050	16	< 2	7	11	0.39	< 10	10	82	< 10	90
F15-18+00N13+25E	201 202	8	0.05	1	390	14	< 2	3	< 1	0.16	< 10	< 10	15	< 10	60
F15-18+00N13+50E	201 202	3	< 0.01	37	1040	10	< 2	4	5	0.15	< 10	< 10	63	< 10	60
F15-18+00N14+00E	201 202	3	0.03	29	1200	6	< 2	10	17	0.41	< 10	< 10	106	< 10	96
F15-18+00N14+25E	201 202	3	0.03	12	1330	4	< 2	5	18	0.46	< 10	10	126	< 10	64
F15-19+00N05+25E	201 202	9	0.02	8	940	8	< 2	11	15	0.57	< 10	10	124	< 10	76
F15-19+00N05+50E	201 202	5	< 0.01	< 1	850	10	< 2	4	3	0.25	< 10	< 10	62	< 10	32
F15-19+00N05+75E	201 202	4	0.01	6	780	10	< 2	6	6	0.36	< 10	< 10	75	< 10	48
F15-19+00N06+00E	201 202	3	0.03	19	2190	12	< 2	5	16	0.23	< 10	< 10	83	< 10	216
F15-19+00N06+25E	201 202	7	< 0.01	21	2340	14	< 2	5	10	0.08	< 10	< 10	93	< 10	160
F15-19+00N07+00E	201 202	3	0.02	9	1700	8	< 2	4	16	0.39	< 10	< 10	116	< 10	60
F15-19+00N07+25E	201 202	4	0.06	9	680	10	< 2	4	2	0.14	< 10	< 10	22	< 10	94
F15-19+00N07+50E	201 202	1	0.07	11	1030	6	< 2	9	27	0.58	< 10	10	119	< 10	58
F15-19+00N08+00E	201 202	4	0.03	5	1090	2	< 2	7	7	0.42	< 10	< 10	100	< 10	54
F15-19+00N08+50E	201 202	5	0.02	6	830	10	< 2	5	7	0.38	< 10	< 10	82	< 10	58
F15-19+00N08+75E	201 202	4	0.02	19	1290	10	< 2	6	7	0.31	< 10	< 10	78	< 10	116
F15-19+00N09+25E	201 202	1	0.15	19	900	4	< 2	10	47	0.59	< 10	10	119	< 10	90
F15-19+00N09+50E	201 202	6	0.04	11	1030	12	< 2	6	7	0.34	< 10	< 10	75	< 10	90
F15-19+00N09+75E	201 202	6	0.03	13	800	10	< 2	4	5	0.17	< 10	< 10	30	< 10	96
F15-19+00N10+25E	201 202	5	0.03	16	970	12	< 2	4	4	0.14	< 10	< 10	34	< 10	78
F15-19+00N10+75E	201 202	< 1	0.01	32	1660	18	< 2	5	6	< 0.01	< 10	< 10	74	< 10	98
F15-19+00N11+00E	201 202	1	0.05	7	900	10	< 2	9	19	0.56	< 10	10	105	< 10	64

CERTIFICATION: *David AWRAM*



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: CANAMERA GEOLOGICAL LTD.
 ATTN: DAVID AWRAM
 220 CAMBIE ST., SUITE 650
 VANCOUVER, BC
 V6B 2M9

Project: FD6CA0052
 Comments:

Page Number :8-A
 Total Pages :9
 Certificate Date: 06-OCT-96
 Invoice No. :19633567
 P.O. Number :8026
 Account :KBOA

CERTIFICATE OF ANALYSIS A9633567

SAMPLE	PREP CODE	Au-AA ppb	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
F15-19+00N11+25E	201 202	< 5	< 0.2	2.52	16	90	1.5	< 2	0.15	< 0.5	16	25	22	4.71	< 10	3	0.10	20	0.74	995
F15-19+00N11+50E	201 202	< 5	< 0.2	3.86	6	50	0.5	< 2	0.08	< 0.5	7	28	12	6.26	10	< 1	0.03	10	0.29	245
F15-19+00N11+75E	201 202	< 5	< 0.2	3.43	8	60	0.5	< 2	0.13	< 0.5	10	47	22	6.21	10	< 1	0.08	10	0.77	370
F15-20+00N05+50E	201 202	< 5	1.0	3.44	20	100	0.5	< 2	0.07	< 0.5	7	37	19	5.66	10	< 1	0.06	30	0.38	485
F15-20+00N06+00E	201 202	< 5	0.6	4.98	16	50	1.5	< 2	0.15	< 0.5	10	24	14	6.44	20	< 1	0.07	30	0.40	520
F15-20+00N06+50E	201 202	< 5	< 0.2	5.42	< 2	70	1.0	< 2	0.52	< 0.5	20	26	13	5.97	10	< 1	0.11	20	0.71	635
F15-20+00N06+75E	201 202	< 5	0.8	5.13	8	10	1.5	< 2	0.05	< 0.5	4	15	3	6.03	20	< 1	0.04	30	0.07	545
F15-20+00N07+00E	201 202	< 5	0.2	4.27	2	40	1.5	< 2	0.05	< 0.5	7	29	6	6.19	20	< 1	0.05	30	0.30	650
F15-20+00N07+25E	201 202	< 5	0.4	4.45	4	60	1.5	< 2	0.29	0.5	11	21	8	5.57	10	2	0.05	10	0.58	545
F15-20+00N07+50E	201 202	< 5	1.2	4.48	4	50	2.5	< 2	0.04	< 0.5	10	21	15	5.52	20	< 1	0.09	30	0.35	1055
F15-20+00N07+75E	201 202	< 5	0.2	4.42	2	40	0.5	2	0.16	< 0.5	9	37	17	6.00	10	< 1	0.05	10	0.53	230
F15-20+00N08+00E	201 202	< 5	< 0.2	3.95	16	40	1.5	< 2	0.09	< 0.5	9	29	17	5.69	10	< 1	0.07	30	0.44	460
F15-20+00N08+25E	201 202	< 5	0.2	4.70	16	60	1.5	< 2	0.22	< 0.5	17	33	28	5.78	10	3	0.08	20	0.54	560
F15-20+00N08+50E	201 202	< 5	< 0.2	4.36	4	40	1.0	< 2	0.16	< 0.5	9	40	13	6.30	20	< 1	0.03	10	0.35	420
F15-20+00N08+75E	201 202	< 5	0.6	4.35	8	30	0.5	< 2	0.10	< 0.5	9	39	18	7.15	30	< 1	0.05	20	0.40	340
F15-20+00N09+00E	201 202	< 5	0.8	2.47	24	70	1.0	< 2	0.16	0.5	26	20	31	5.73	< 10	< 1	0.07	40	0.25	1745
F15-20+00N09+25E	201 202	< 5	2.0	4.54	6	30	1.5	< 2	0.04	< 0.5	10	20	8	6.03	30	< 1	0.06	30	0.16	710
F15-20+00N09+50E	201 202	< 5	0.2	3.61	4	90	0.5	2	0.15	< 0.5	16	32	24	4.57	< 10	< 1	0.10	10	0.43	555
F15-20+00N09+75E	201 202	< 5	0.2	4.83	8	60	0.5	< 2	0.19	< 0.5	11	42	18	6.24	10	< 1	0.06	10	0.55	470
F15-20+00N10+00E	201 202	< 5	0.2	3.56	< 2	30	0.5	< 2	0.10	< 0.5	11	42	16	7.48	30	1	0.06	10	0.39	600
F15-20+00N10+25E	201 202	< 5	0.4	4.12	6	30	0.5	< 2	0.14	< 0.5	9	27	13	6.23	20	< 1	0.05	10	0.42	460
F15-20+00N10+50E	201 202	< 5	< 0.2	4.98	16	60	1.5	< 2	0.27	< 0.5	14	24	23	6.98	10	< 1	0.09	10	0.67	430
F15-20+00N10+75E	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
F15-20+00N11+00E	201 202	< 5	0.2	3.80	8	30	0.5	< 2	0.10	0.5	9	29	15	6.40	20	< 1	0.07	10	0.37	460
F15-20+00N11+50E	201 202	950	0.6	2.94	14	80	1.5	< 2	0.07	< 0.5	39	30	21	8.82	< 10	1	0.08	20	1.29	2540
F15-20+00N11+75E	201 202	< 5	0.2	4.05	16	30	0.5	< 2	0.04	< 0.5	9	40	15	6.96	10	< 1	0.04	10	0.41	385
F15-20+00N12+00E	201 202	< 5	< 0.2	3.13	12	50	0.5	< 2	0.05	< 0.5	20	56	22	4.71	< 10	1	0.05	10	0.86	1110
F15-20+00N12+25E	201 202	< 5	0.2	4.11	6	90	0.5	< 2	0.19	< 0.5	13	24	15	4.39	10	3	0.06	10	0.46	560
F15-21+00N05+50E	201 202	< 5	< 0.2	3.57	8	60	0.5	< 2	0.26	< 0.5	19	33	16	5.45	10	< 1	0.05	30	0.85	940
F15-21+00N05+75E	201 202	< 5	0.2	3.34	14	110	1.5	< 2	0.22	2.5	9	25	9	4.42	10	4	0.06	20	0.35	305
F15-21+00N06+50E	201 202	< 5	0.2	5.45	< 2	70	2.0	< 2	0.40	< 0.5	12	24	19	5.99	10	< 1	0.08	30	0.61	325
F15-21+00N06+75E	201 202	< 5	< 0.2	4.16	14	50	1.0	2	0.16	< 0.5	13	29	13	6.04	20	< 1	0.07	30	0.38	425
F15-21+00N07+00E	201 202	< 5	0.2	4.60	< 2	40	1.0	< 2	0.24	< 0.5	11	28	19	6.63	10	< 1	0.08	10	0.58	260
F15-21+00N07+25E	201 202	< 5	< 0.2	5.33	6	100	1.5	< 2	0.56	< 0.5	18	29	25	6.06	10	< 1	0.17	20	0.84	535
F15-21+00N07+50E	201 202	< 5	1.0	4.64	14	20	1.0	< 2	0.06	< 0.5	3	16	3	5.86	30	3	0.06	40	0.11	410
F15-21+00N07+75E	201 202	< 5	0.8	5.23	12	30	0.5	< 2	0.13	< 0.5	5	24	9	7.36	30	5	0.04	30	0.23	305
F15-21+00N08+25E	201 202	< 5	0.2	4.63	6	40	0.5	< 2	0.24	< 0.5	13	30	21	7.18	20	3	0.08	10	0.56	515
F15-21+00N08+50E	201 202	10	< 0.2	3.69	14	50	1.0	< 2	0.19	< 0.5	42	23	72	8.00	10	2	0.05	10	1.40	2400
F15-21+00N08+75E	201 202	< 5	0.2	3.37	8	60	1.5	< 2	0.12	< 0.5	17	21	26	6.40	10	< 1	0.08	20	0.40	1325
F15-21+00N09+00E	201 202	< 5	0.6	1.55	22	60	1.0	< 2	0.04	< 0.5	24	5	122	6.72	< 10	< 1	0.11	10	0.14	2640

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: CANAMERA GEOLOGICAL LTD.
ATTN: DAVID AWRAM
220 CAMBIE ST., SUITE 650
VANCOUVER, BC
V6B 2M9

Project : FD6CA0052
Comments:

Page Number :8-B
Total Pages :9
Certificate Date: 06-OCT-96
Invoice No. :19633567
P.O. Number :8026
Account :KBOA

CERTIFICATE OF ANALYSIS

A9633567

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
F15-19+00N11+25E	201 202	3	0.03	33	1280	12	< 2	7	12	0.19	< 10	< 10	60	< 10	150
F15-19+00N11+50E	201 202	3	< 0.01	10	590	6	< 2	5	8	0.30	< 10	< 10	104	< 10	46
F15-19+00N11+75E	201 202	1	0.04	38	610	4	< 2	6	16	0.20	< 10	< 10	83	< 10	78
F15-20+00N05+50E	201 202	8	< 0.01	16	1530	14	< 2	3	7	0.10	< 10	< 10	98	< 10	254
F15-20+00N06+00E	201 202	4	0.04	10	1060	10	< 2	9	12	0.46	< 10	10	88	< 10	76
F15-20+00N06+50E	201 202	1	0.15	9	1070	< 2	< 2	9	46	0.70	< 10	10	130	< 10	48
F15-20+00N06+75E	201 202	6	0.03	3	710	12	2	3	3	0.16	< 10	< 10	27	< 10	44
F15-20+00N07+00E	201 202	4	0.01	10	760	12	< 2	5	3	0.30	< 10	< 10	78	< 10	90
F15-20+00N07+25E	201 202	2	0.03	10	1120	2	< 2	4	23	0.59	< 10	10	132	< 10	62
F15-20+00N07+50E	201 202	6	0.04	25	620	12	< 2	4	2	0.13	< 10	< 10	23	< 10	174
F15-20+00N07+75E	201 202	3	0.02	16	1010	< 2	< 2	9	12	0.48	< 10	< 10	111	< 10	68
F15-20+00N08+00E	201 202	5	0.03	19	970	10	< 2	5	8	0.28	< 10	< 10	64	< 10	100
F15-20+00N08+25E	201 202	4	0.06	17	1180	12	< 2	10	18	0.49	< 10	< 10	102	< 10	102
F15-20+00N08+50E	201 202	3	< 0.01	8	1040	6	< 2	7	12	0.53	< 10	< 10	123	< 10	46
F15-20+00N08+75E	201 202	5	0.01	9	890	8	< 2	8	6	0.48	< 10	10	108	< 10	58
F15-20+00N09+00E	201 202	7	0.01	30	3320	24	< 2	7	11	0.06	< 10	< 10	53	< 10	242
F15-20+00N09+25E	201 202	5	0.03	7	810	10	< 2	3	3	0.21	< 10	< 10	46	< 10	76
F15-20+00N09+50E	201 202	3	0.03	20	910	10	< 2	8	12	0.20	< 10	< 10	90	< 10	88
F15-20+00N09+75E	201 202	1	0.02	22	1090	2	< 2	7	16	0.42	< 10	< 10	112	< 10	92
F15-20+00N10+00E	201 202	4	0.01	11	870	6	< 2	6	7	0.41	< 10	< 10	113	< 10	68
F15-20+00N10+25E	201 202	3	0.01	5	880	6	< 2	7	9	0.51	< 10	10	115	< 10	46
F15-20+00N10+50E	201 202	1	0.04	14	1430	6	< 2	13	20	0.79	< 10	10	139	< 10	136
F15-20+00N10+75E	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
F15-20+00N11+00E	201 202	4	0.01	7	1060	12	< 2	7	7	0.48	< 10	10	101	< 10	56
F15-20+00N11+50E	201 202	3	0.01	41	2760	262	< 2	9	5	0.11	< 10	< 10	69	< 10	106
F15-20+00N11+75E	201 202	4	< 0.01	22	670	6	< 2	4	3	0.18	< 10	< 10	62	< 10	72
F15-20+00N12+00E	201 202	3	< 0.01	55	900	12	< 2	6	5	0.14	< 10	< 10	59	< 10	120
F15-20+00N12+25E	201 202	1	0.02	13	1070	4	< 2	4	14	0.28	< 10	< 10	95	< 10	70
F15-21+00N05+50E	201 202	3	0.01	14	2080	8	< 2	6	16	0.20	< 10	< 10	145	< 10	124
F15-21+00N05+75E	201 202	5	< 0.01	20	1270	12	< 2	2	17	0.05	< 10	< 10	53	< 10	306
F15-21+00N06+50E	201 202	< 1	0.09	10	1190	< 2	< 2	12	33	0.82	< 10	10	131	< 10	72
F15-21+00N06+75E	201 202	3	0.02	9	920	12	< 2	6	13	0.45	< 10	< 10	99	< 10	66
F15-21+00N07+00E	201 202	2	0.05	14	1230	2	< 2	10	18	0.59	< 10	< 10	114	< 10	78
F15-21+00N07+25E	201 202	< 1	0.18	16	1320	8	< 2	12	53	0.75	< 10	10	137	< 10	100
F15-21+00N07+50E	201 202	6	0.04	1	440	12	< 2	3	2	0.20	< 10	< 10	25	< 10	62
F15-21+00N07+75E	201 202	3	0.01	4	950	16	< 2	6	9	0.36	< 10	< 10	69	< 10	36
F15-21+00N08+25E	201 202	4	0.05	9	870	8	< 2	11	19	0.61	< 10	10	152	< 10	62
F15-21+00N08+50E	201 202	10	< 0.01	11	2830	18	< 2	9	10	0.04	< 10	< 10	184	< 10	84
F15-21+00N08+75E	201 202	1	0.03	11	1580	14	< 2	11	10	0.24	< 10	< 10	81	< 10	110
F15-21+00N09+00E	201 202	1	< 0.01	7	1950	38	< 2	12	3	0.05	< 10	< 10	37	< 10	88

CERTIFICATION:

David Buchler



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: CANAMERA GEOLOGICAL LTD.
ATTN: DAVID AWRAM
220 CAMBIE ST., SUITE 650
VANCOUVER, BC
V6B 2M9

Page Number :9-A
Total Pages :9
Certificate Date: 06-OCT-96
Invoice No. : 19633567
P.O. Number : 8026
Account : KBOA

Project : FD6CA0052
Comments:

CERTIFICATE OF ANALYSIS

A9633567

SAMPLE	PREP CODE	Au-AA ppb	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
F15-21+00N09+25E	201 202	< 5	0.4	3.78	6	90	0.5	< 2	0.13	< 0.5	17	44	23	5.67	10	1	0.07	10	0.51	1300
F15-21+00N09+50E	201 202	< 5	2.0	4.88	6	40	1.0	< 2	0.12	< 0.5	18	32	25	6.77	20	< 1	0.06	20	0.34	1075
F15-21+00N10+00E	201 202	< 5	0.4	3.92	16	30	2.0	< 2	0.06	< 0.5	3	12	8	5.53	20	< 1	0.09	30	0.16	280
F15-21+00N10+25E	201 202	< 5	1.2	4.93	14	20	2.0	< 2	0.03	< 0.5	3	11	9	5.62	30	< 1	0.06	30	0.10	275
F15-21+00N10+50E	201 202	< 5	0.2	1.68	22	140	1.0	< 2	0.80	3.5	18	24	26	6.19	< 10	< 1	0.11	60	0.53	1360
F15-21+00N10+75E	201 202	< 5	0.8	4.47	4	50	1.0	2	0.14	< 0.5	11	47	17	7.58	20	1	0.05	20	0.54	840
F15-21+00N11+00E	201 202	< 5	0.2	4.64	6	50	1.5	< 2	0.17	< 0.5	13	28	20	5.80	20	< 1	0.06	20	0.44	660
F15-21+00N11+25E	201 202	< 5	0.6	4.57	14	70	1.5	< 2	0.08	< 0.5	12	20	12	5.49	20	< 1	0.07	30	0.23	1520
F15-21+00N11+50E	201 202	< 5	0.8	4.03	4	20	0.5	2	0.12	< 0.5	6	19	7	6.93	30	4	0.07	20	0.27	455
F15-21+00N11+75E	201 202	< 5	0.2	4.01	2	40	2.5	< 2	0.09	< 0.5	9	21	12	5.17	20	< 1	0.09	60	0.20	600
F15-21+00N12+00E	201 202	< 5	< 0.2	3.83	18	50	0.5	2	0.19	< 0.5	18	31	26	5.56	10	< 1	0.08	10	0.69	1210
F15-21+00N12+25E	201 202	< 5	0.2	3.70	16	80	0.5	< 2	0.03	0.5	9	52	15	8.37	30	1	0.03	10	0.36	345
F15 5318A	201 202	< 5	0.2	2.86	24	50	0.5	< 2	0.09	< 0.5	8	13	8	5.36	10	< 1	0.04	10	0.16	1030
F15 5318B	201 202	< 5	0.2	3.47	16	110	0.5	2	0.07	< 0.5	9	31	17	4.40	10	< 1	0.08	10	0.54	920
F15 5318C	201 202	< 5	< 0.2	3.52	29	70	0.5	< 2	0.01	< 0.5	16	52	35	9.08	< 10	3	0.07	10	0.44	560
F15 5318D	201 202	< 5	< 0.2	4.98	< 2	60	1.0	< 2	0.31	< 0.5	15	17	8	4.93	10	< 1	0.05	10	0.50	745
F15 5318E	201 202	< 5	0.2	3.94	4	70	0.5	< 2	0.13	< 0.5	9	28	13	4.89	10	< 1	0.06	10	0.44	460
F15 5318F	201 202	< 5	0.2	3.93	12	90	0.5	< 2	0.05	< 0.5	15	55	35	6.18	< 10	3	0.06	10	0.54	605
F15 5318G	201 202	< 5	0.8	5.36	10	30	1.5	< 2	0.04	< 0.5	8	17	7	5.05	20	< 1	0.05	20	0.10	980
F15 5318H	201 202	< 5	0.4	2.78	< 2	70	0.5	< 2	0.13	< 0.5	10	33	16	6.00	10	< 1	0.06	< 10	0.50	710

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: CANAMERA GEOLOGICAL LTD.
 ATTN: DAVID AWRAM
 220 CAMBIE ST., SUITE 650
 VANCOUVER, BC
 V6B 2M9

Page Number :9-B
 Total Pages :9
 Certificate Date: 06-OCT-96
 Invoice No. :19633567
 P.O. Number :8026
 Account :KBOA

Project : FD6CA0052
 Comments:

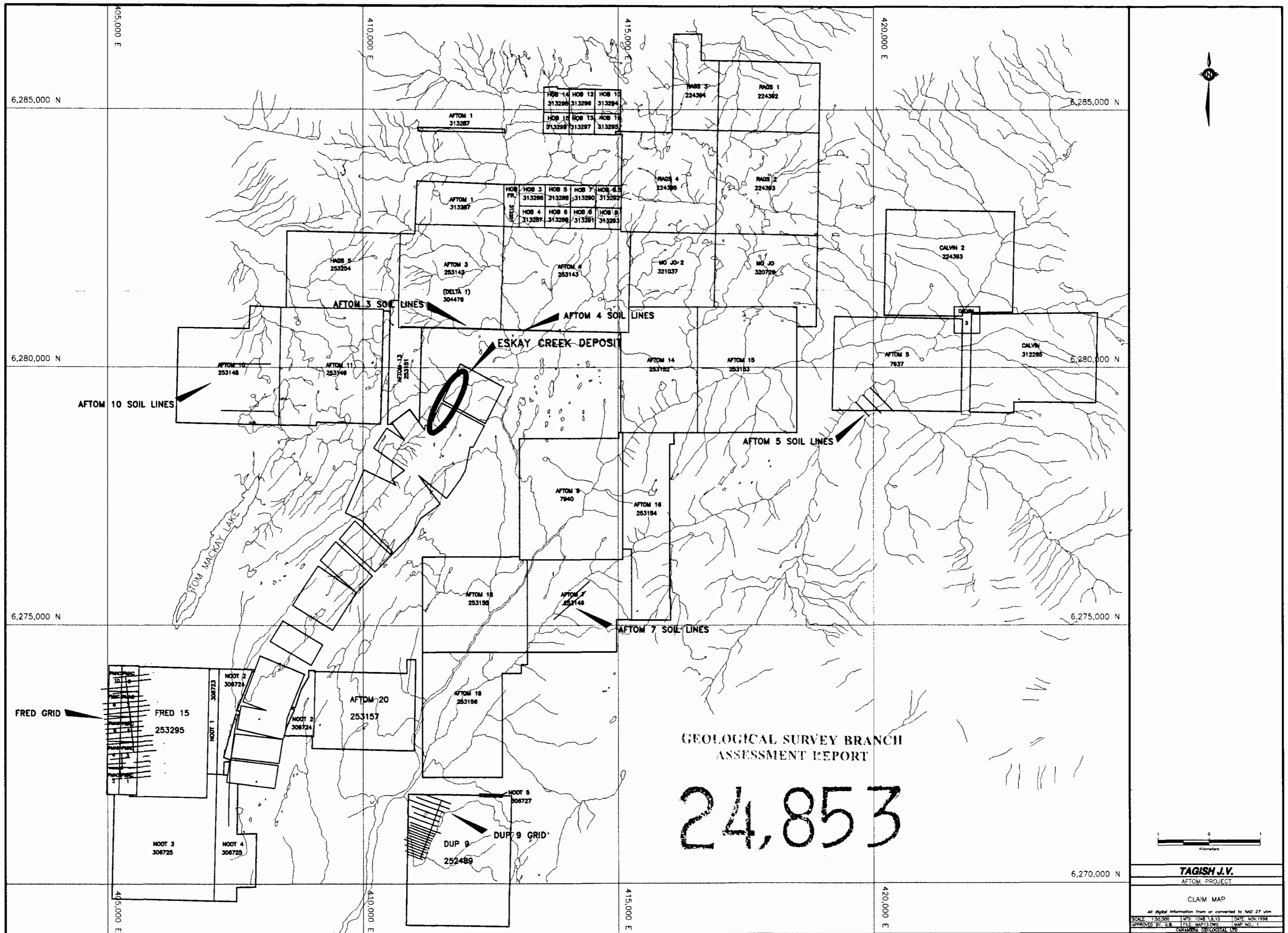
CERTIFICATE OF ANALYSIS

A9633567

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
F15-21+00N09+25E	201 202	2	0.03	22	1460	10	< 2	4	14	0.18	< 10	< 10	104	< 10	136
F15-21+00N09+50E	201 202	5	0.02	13	910	10	< 2	7	10	0.36	< 10	< 10	88	< 10	142
F15-21+00N10+00E	201 202	4	0.06	6	470	8	< 2	4	5	0.22	< 10	< 10	32	< 10	94
F15-21+00N10+25E	201 202	8	0.05	6	470	8	< 2	4	< 1	0.14	< 10	< 10	14	< 10	80
F15-21+00N10+50E	201 202	24	0.01	41	4950	20	< 2	7	39	0.03	< 10	< 10	81	< 10	352
F15-21+00N10+75E	201 202	3	0.02	18	1470	10	< 2	9	12	0.34	< 10	< 10	103	< 10	66
F15-21+00N11+00E	201 202	3	0.03	14	970	8	< 2	8	14	0.42	< 10	< 10	94	< 10	86
F15-21+00N11+25E	201 202	4	0.03	7	970	10	< 2	5	6	0.22	< 10	< 10	51	< 10	92
F15-21+00N11+50E	201 202	7	0.05	4	500	10	< 2	5	9	0.37	< 10	< 10	59	< 10	64
F15-21+00N11+75E	201 202	4	0.05	13	720	12	< 2	5	6	0.16	< 10	< 10	32	< 10	116
F15-21+00N12+00E	201 202	2	0.04	25	1530	10	< 2	8	15	0.38	< 10	< 10	103	< 10	112
F15-21+00N12+25E	201 202	4	< 0.01	22	440	8	< 2	7	5	0.10	< 10	< 10	92	< 10	70
F15 5318A	201 202	5	< 0.01	5	880	18	< 2	3	7	0.14	< 10	< 10	64	< 10	54
F15 5318B	201 202	3	0.01	13	870	28	< 2	3	7	0.11	< 10	< 10	84	< 10	76
F15 5318C	201 202	3	< 0.01	41	1140	14	< 2	6	3	0.02	< 10	< 10	70	< 10	104
F15 5318D	201 202	< 1	0.04	7	1200	< 2	< 2	6	21	0.53	< 10	< 10	114	< 10	72
F15 5318E	201 202	2	0.01	7	960	12	< 2	6	10	0.26	< 10	< 10	100	< 10	58
F15 5318F	201 202	< 1	< 0.01	34	1110	6	< 2	6	5	0.01	< 10	< 10	84	< 10	94
F15 5318G	201 202	5	0.03	5	570	4	< 2	3	1	0.18	< 10	< 10	27	< 10	80
F15 5318H	201 202	3	< 0.01	22	1180	2	< 2	3	9	0.17	< 10	< 10	118	< 10	88

CERTIFICATION: _____

Hart Buehler



GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

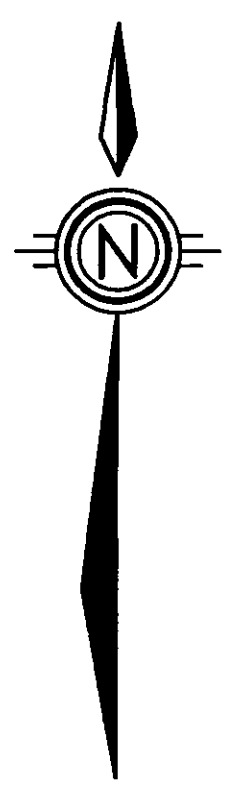
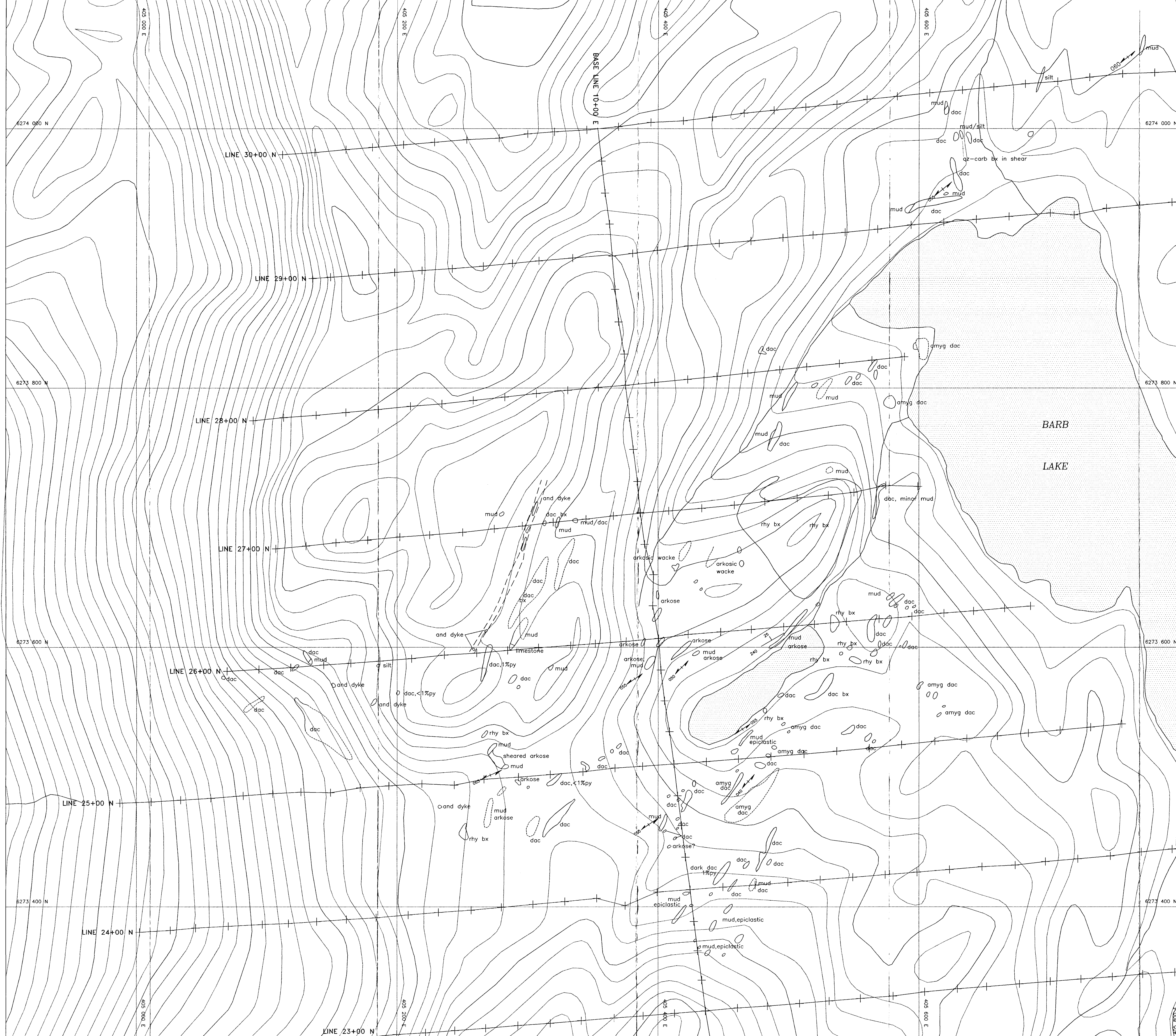
24,853



TAGISH J.V.
AFTOM PROJECT

CLAIM MAP

All digital information from or converted to NAD 27 utm
 SCALE: 1:50,000 NTS: 1048 \ 8.10 DATE: NOV.1998
 APPROVED BY: G.B. FILE: MAP13.DWG MAP NO.: 1
 CANADIAN GEOLOGICAL SURVEY

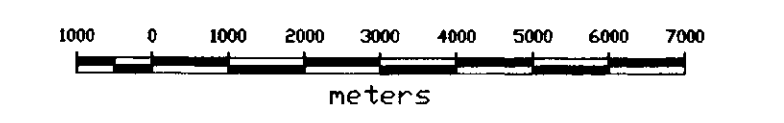


LEGEND

- CLAIM BOUNDARY
- 45/50 BEDDING
- 30/67 CLEAVAGE
- 75/167 TOPS
- FOLD AXIS
- FOLIATION
- 080 FAULT
- + STATION LOCATIONS (FROM SURVEY DATA; STATION NAMES REPRESENT IDEALIZED GRID)
- OUTCROP
- BOULDERS
- HAZELTON GROUP
 - mud ---MUDSTONE
 - silt ---SILTSTONE
 - ss ---SANDSTONE
 - cong ---CONGLOMERATE
 - epic ---EPICLASTIC
 - rhy ---RHYOLITE
 - dac ---DACITE
 - and ---ANDESITE
 - bx ---BRECCIA
 - mag ---MAGNETIC
 - porph ---PORPHYRITIC
 - blk ---BLACK
 - amyg ---AMYGDALOIDAL
 - frag ---FRAGMENTAL
 - hetero ---HETEROLITHIC
 - mono ---MONOLITHIC

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

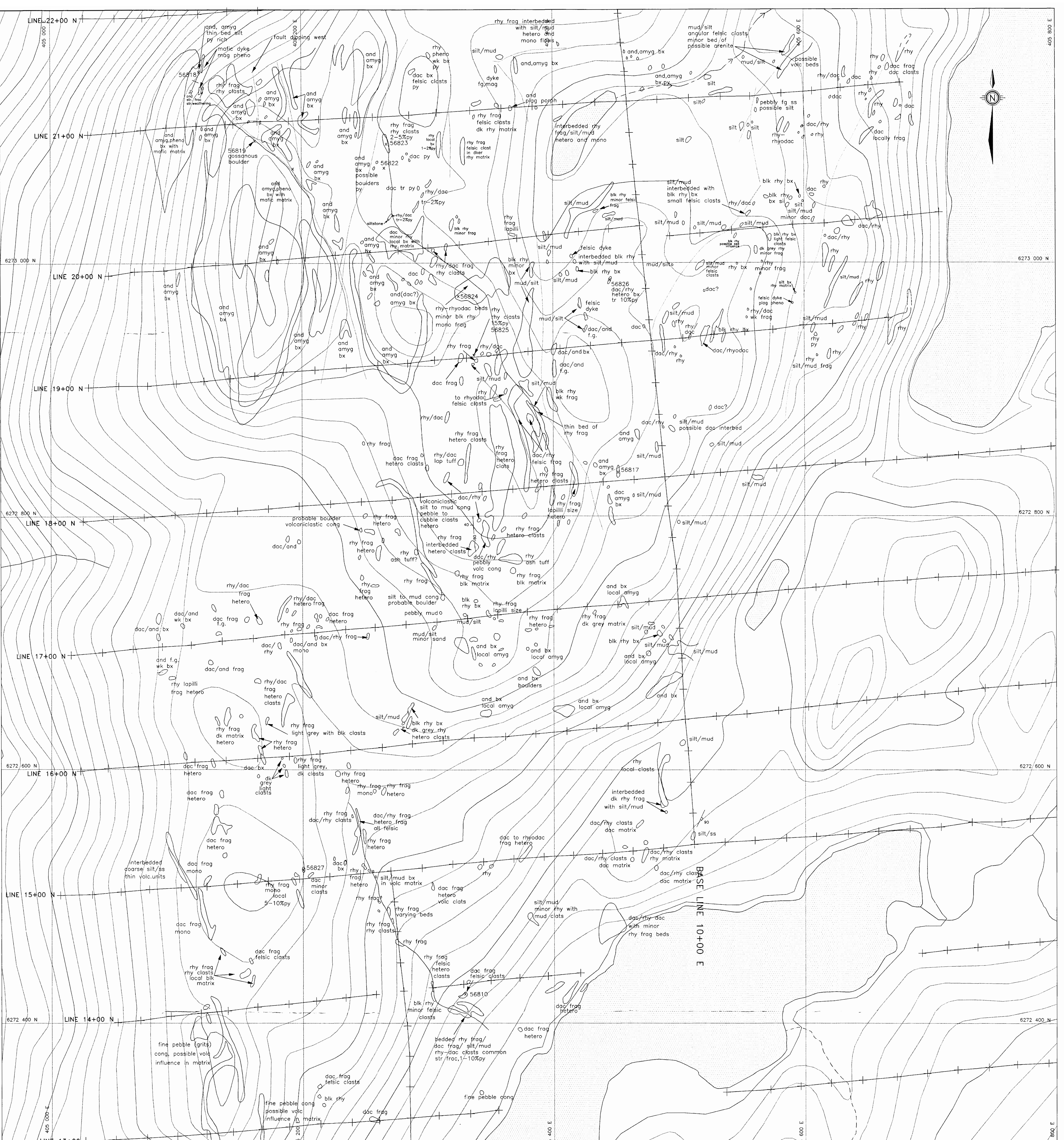
24,853



TAGISH J.V.
AFTOM PROJECT

FRED GRID (NORTH)
GEOLOGY MAP

SCALE: 1:1,000	NTS: 104B	DATE: NOV. 1996
APPROVED BY:	FILE: FRED-N.DWG	MAP NO.: 12
CANAMERA GEOLOGICAL LTD		



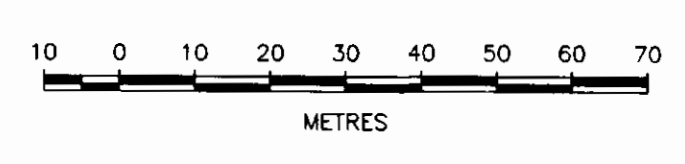
LEGEND

- HAZELTON GROUP**
- mud - MUDSTONE
 - silt - SILTSTONE
 - ss - SANDSTONE
 - cong - CONGLOMERATE
 - epic - EPICLASTIC
 - rhy - RHYOLITE
 - dac - DACITE
 - and - ANDESITE
 - bx - BRECCIA
 - mag - MAGNETIC
 - porph - PORPHYRITIC
- blk - BLACK
 - amyg - AMYGDALOIDAL
 - frag - FRAGMENTAL
 - hetero - HETEROLITHIC
 - mono - MONOLITHIC
- OUTCROP
 - BOULDERS

- 75 167 TOPS
- FOLD AXIS
- FOLIATION
- 45 50 BEDDING
- 30 67 CLEAVAGE
- 56818^x ROCK SAMPLE
- STATION LOCATIONS (FROM SURVEY DATA)
- STATION NAMES REPRESENT IDEALIZED GRID

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,853



TAGISH J.V.
AFTOM PROJECT
FRED GRID (SOUTH)
GEOLOGY MAP

SCALE: 1:1,000 NTS: 104B DATE: NOV. 1996
APPROVED BY: G.B. FILE: FRED-S.DWG MAP NO.: 13
CANAMERA GEOLOGICAL LTD

