TECK COMINCO LIMITED

THUNDER BAY, ONTARIO

ASSESSMENT REPORT
ON THE 2003 EXPLORATION PROGRAM
ON FREEWEST RESOURCES' LIZAR PROPERTY
SAULT STE. MARIE MINING DIVISION, ONTARIO

by

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Report No. 1009tb

NTS 42C

06-20-04

2.27988

W0450.01026

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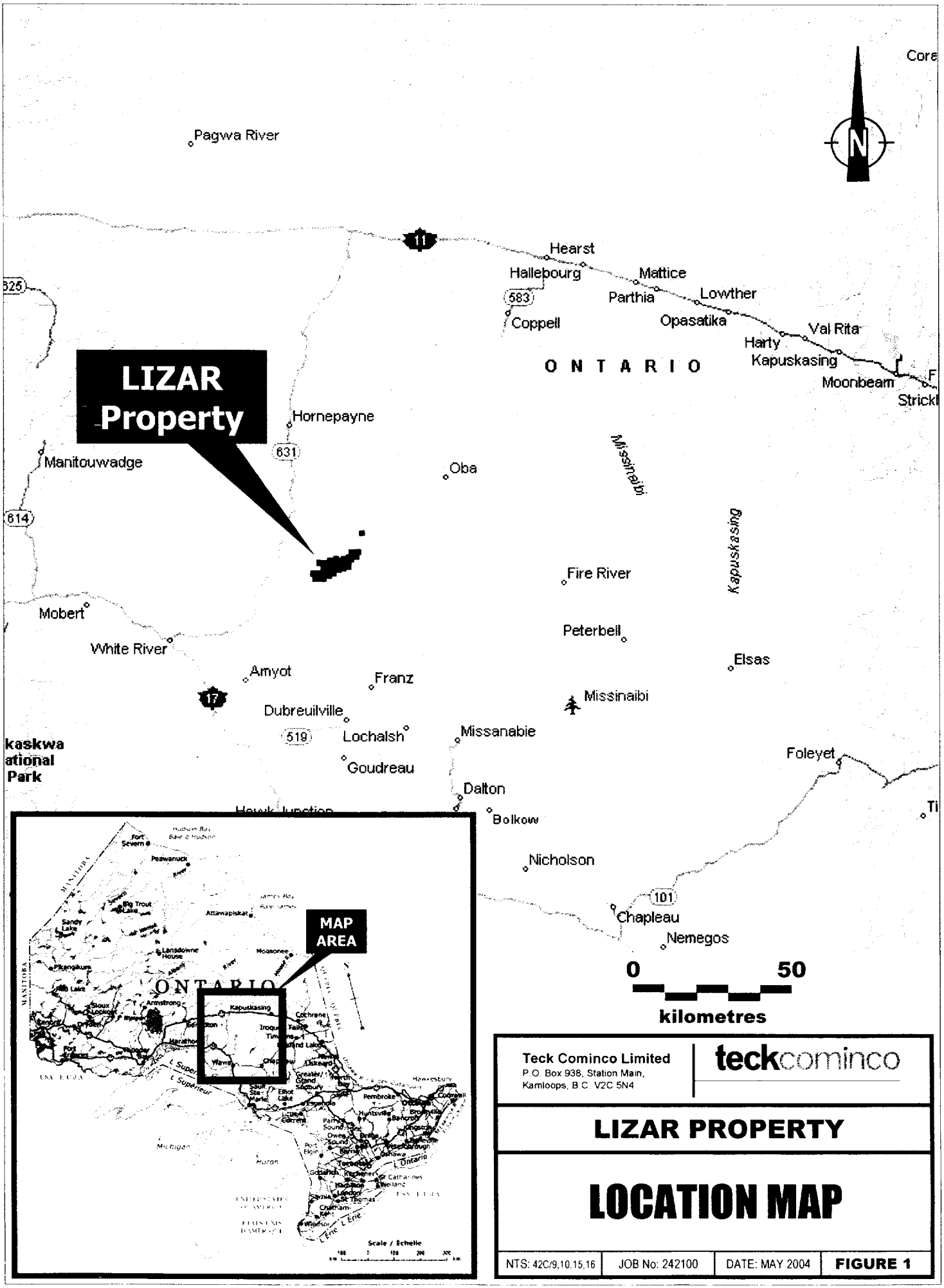
INTRODUCTION

The Lizar property covers a number of gold and base metal occurrences in the Kabinakagami greenstone belt. The property is owned by Freewest Resources Canada inc. and is currently under option to Teck Cominco Limited. Previous exploration is relatively limited due to extensive but thin overburden that covers large areas of the property and poor access. Forestry operations in the area in the last decade have greatly improved access which contributed to the discovery of a number of new gold occurrences by Freewest Resources in 2002. Continued exploration on the property in 2003 consisted of property-wide field mapping, outcrop sampling, local orientation MMI (mobile metal ion) surveys, grid-cutting and ground geophysical electromagnetic (UTEM) surveys. This report summarizes work completed on the property in 2003 with recommendations for further work.

LOCATION, ACCESS AND TOPOGRAPHY

The Lizar property is located in northern Ontario about 500 kilometres east of Thunder Bay and 50 kilometres south of the town of Hornepayne (Fig. 1). The property extends through portions of Lizar, Nameigos, Breckenridge and Mosambik townships in the Sault Ste. Marie Mining Division. The centre of the property is at UTM (NAD 83, Zone 16) 678000mE, 5409000mN in NTS block 042C/09, 10, 15 and 16.

Access to the property is via a network of well marked logging roads east of Hwy 631 approximately 15 kilometres south of Hornepayne. The recommended route is east at South Larken Road then south on Haken Lake Road for a total trip of about 60 kilometres to the central part of the property. One isolated claim to the northeast of the main claim block requires helicopter or float plane to access.



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LIZAR PROPERTY

LOCATION MAP

NTS: 42C/9,10,15,16	JOB No: 242100	DATE: MAY 2004	**FIGURE 1**

Topography of the property is overall relatively flat with moderately rolling glacial drift covered hills. The maximum relief in the area is less than about 100 metres. Outcrop on the property is less than 5% with large portions of covered by glacial outwash sands. Much of the central and southwestern portions have been clear-cut in the last decade with forestry operations continuing.

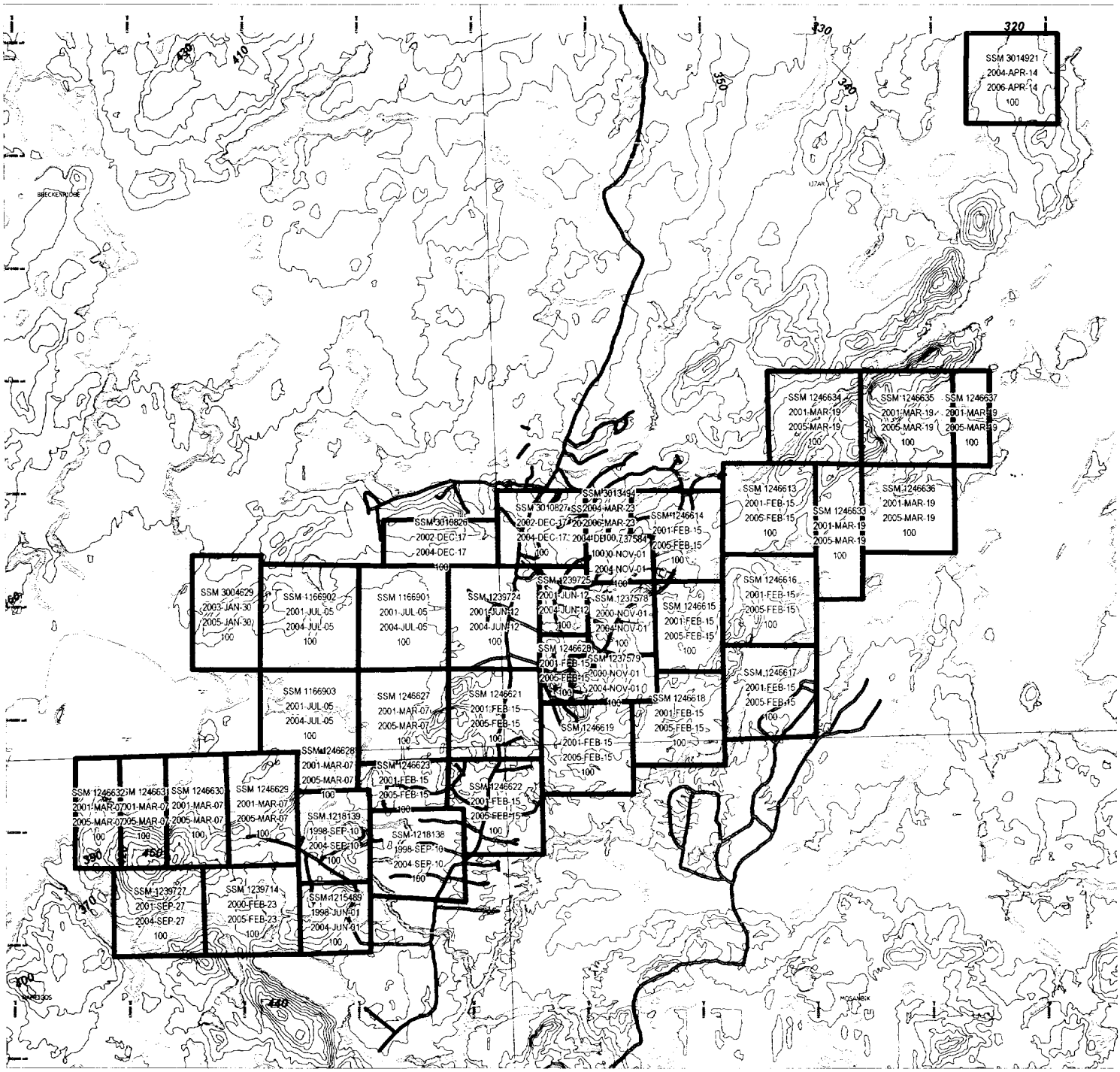
CLAIM STATUS

The Lizar property consists of 40 claims totaling 504 units or 8,064 hectares (Table 1, Fig. 2). All claims are owned and recorded under Freewest Resources Canada Inc. and are under option to Teck Cominco. At the time of writing, all claims are in good standing with the earliest claim due date in July, 2004.

TABLE 1
LIZAR PROPERTY CLAIMS

	TOWNSHIP / AREA	Claim Number	Recording Date	Claim Due Date	Units
1	BRECKENRIDGE	SSM 1166901	2001-JUL-05	2004-JUL-05	16
2	BRECKENRIDGE	SSM 1166902	2001-JUL-05	2004-JUL-05	16
3	BRECKENRIDGE	SSM 1166903	2001-JUL-05	2004-JUL-05	16
4	BRECKENRIDGE	SSM 1246627	2001-MAR-07	2005-MAR-07	16
5	BRECKENRIDGE	SSM 3004629	2003-JAN-30	2005-JAN-30	15
6	BRECKENRIDGE	SSM 3010826	2002-DEC-17	2004-DEC-17	10
7	LIZAR	SSM 1237578	2000-NOV-01	2004-NOV-01	9
8	LIZAR	SSM 1237579	2000-NOV-01	2004-NOV-01	8
9	LIZAR	SSM 1237584	2000-NOV-01	2004-NOV-01	6
10	LIZAR	SSM 1239724	2001-JUN-12	2005-JUN-12	16
11	LIZAR	SSM 1239725	2001-JUN-12	2005-JUN-12	5
12	LIZAR	SSM 1246613	2001-FEB-15	2005-FEB-15	16
13	LIZAR	SSM 1246614	2001-FEB-15	2005-FEB-15	14
14	LIZAR	SSM 1246615	2001-FEB-15	2005-FEB-15	12
15	LIZAR	SSM 1246616	2001-FEB-15	2005-FEB-15	16
16	LIZAR	SSM 1246617	2001-FEB-15	2005-FEB-15	16
17	LIZAR	SSM 1246618	2001-FEB-15	2005-FEB-15	15
18	LIZAR	SSM 1246619	2001-FEB-15	2005-FEB-15	16
19	LIZAR	SSM 1246620	2001-FEB-15	2005-FEB-15	4
20	LIZAR	SSM 1246621	2001-FEB-15	2005-FEB-15	16
21	**LIZAR *****	SSM 1246624			16
22	LIZAR	SSM 1246633	2001-MAR-19	2005-MAR-19	12
23	LIZAR	SSM 1246634	2001-MAR-19	2005-MAR-19	16
24	LIZAR	SSM 1246635	2001-MAR-19	2005-MAR-19	16
25	LIZAR	SSM 1246636	2001-MAR-19	2005-MAR-19	16
26	LIZAR	SSM 1246637	2001-MAR-19	2005-MAR-19	8
27	LIZAR	SSM 3010827	2002-DEC-17	2004-DEC-17	12
28	LIZAR	SSM 3010828	2002-DEC-17	2004-DEC-17	1
29	MOSAMBIK	SSM 1246622	2001-FEB-15	2005-FEB-15	15
30	NAMEIGOS	SSM 1215489	1998-JUN-01	2005-JUN-01	9
31	NAMEIGOS	SSM 1218138	1998-SEP-10	2004-SEP-10	16
32	NAMEIGOS	SSM 1218139	1998-SEP-10	2004-SEP-10	12
33	NAMEIGOS	SSM 1239714	2000-FEB-23	2005-FEB-23	16
34	NAMEIGOS	SSM 1239727	2001-SEP-27	2004-SEP-27	16
35	NAMEIGOS	SSM 1246623	2001-FEB-15	2005-FEB-15	11
36	NAMEIGOS	SSM 1246628	2001-MAR-07	2005-MAR-07	4
37	NAMEIGOS	SSM 1246629	2001-MAR-07	2005-MAR-07	15
38	NAMEIGOS	SSM 1246630	2001-MAR-07	2005-MAR-07	15
39	NAMEIGOS	SSM 1246631	2001-MAR-07	2005-MAR-07	10
40	NAMEIGOS	SSM 1246632	2001-MAR-07	2005-MAR-07	10
	TOTALS				**504**

NOTES:
***** claim re-staked; new claim is SSM 3014921**



LEGEND

SSM 3014921	Claim Number
2004-APR-14	Recording Date
2006-APR-14	Claim Due Date
100	Percent Option

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LIZAR PROJECT

SAULT STE. MARIE, Mining Division, ONT.

Claim Location Map

SCALE: 1:100,000	DATA: Mines & Min'ls Div.	NTS No: 42C/9,10,15,16	**Figure: 2**
DATE: MAY 13, 2004	DRAWN BY: S.A.	DWG: Claims_100000.WOR	

PREVIOUS WORK

Based on government assessment files (Timmins, Ontario MNDM office), previous work on the property and surrounding area dates back to the 1920's with the discovery of the Hiawatha Gold Mine located immediately northeast of the main Lizar claim block. The very small-scale mine intermittently operated producing about 200 ounces of gold from two quartz vein zones hosted within and close to the contact of a granodiorite. Reported gold grades are highly varied ranging from a few grams to local high-grade sections up to 342 g/t Au over one metre.

In the 1930's several other gold occurrences were uncovered including the Stenabaugh occurrence located in the southwest part of the Lizar property. In 1937, Cominco Limited sampled this showing and reported a chip sample across one of the trenches averaging 3.4 g/t Au over 8.8 metres. Subsequent sampling failed to return any significant gold values. Several other gold occurrences were discovered mainly southwest along strike of the Hiawatha Mine. Parties involved included Erie Canadian Mine Limited and Hollinger Consolidated Gold Mines Limited.

In 1957 Sand River Gold Mining Company Ltd. completed airborne and ground magnetic surveys and drilled several holes on a magnetic high, the Perkins Occurrence, located on the present Lizar claim to the northeast. Sand River suggested the presence of about 10 million tons of 66.5% Fe with local anomalous Ni, and Cu. Two drill holes noted on OGS Map 2355 (Siragusa, 1977) are believed to be of this vintage as well targeting a magnetic high feature are recorded to have drilled a pyroxenite body.

Intermittent exploration continued from the mid-1960's to the late-1970's mainly in the Hiawatha Mine area. Companies included Primrock Mining, Bear Creek Gold Mines, Keltic Mining and Nickel Rim Mines.

Following the discovery of the Hemlo mines in the early 1980's, a number of companies such as Tanglewood Consolidated Resources Inc., Pryme Energy Resources, Tundra Gold Mines, Tay River Petroleum, Noranda Exploration Ltd., Norwin Resources, Panax Resources Ltd., and Golden Trio Resources completed a variety of exploration programs including local soil surveys, geological mapping, sampling of mainly historic showings, and limited diamond drilling in the Hiawatha Mine area. Several of these companies purchased and filed for assessment purposes Aerodat Limited's airborne magnetometer and EM survey which covered portions of the Kabinakagami greenstone belt.

In the late 1990's and early 2000, the present underlying vendors and Freewest Resources uncovered several new gold occurrences including the 42 Zone and Kirk/Kyle Zones in the central part of the property. Freewest's work included property-wide prospecting, local trenching and soil surveys, line-cutting, and geophysical surveys (MacTavish, 2002). Line-cutting areas included the Patent grid covering new gold occurrences noted above and the Nameigos grid over a sulphide zone in the southwest part of the claim block. Ground geophysical surveys include magnetics and IP on the Patent grid and MaxMin-EM surveys on the Nameigos grid.

REGIONAL GEOLOGY

The Lizar property covers a portion of the Kabinakagami greenstone of the Wawa Subprovince (Fig. 3). The belt is subdivided into a northern and southern segment (Wilson, 1993). The property covers a large portion of the northeast-trending southern belt described to be underlain dominantly by upper greenschist to amphibolite grade mafic volcanics and sedimentary rocks with lesser felsic dykes and volcanics. The belt is enveloped by massive to foliated granite and granodiorite. A major northeast-trending structural zone, the Bear

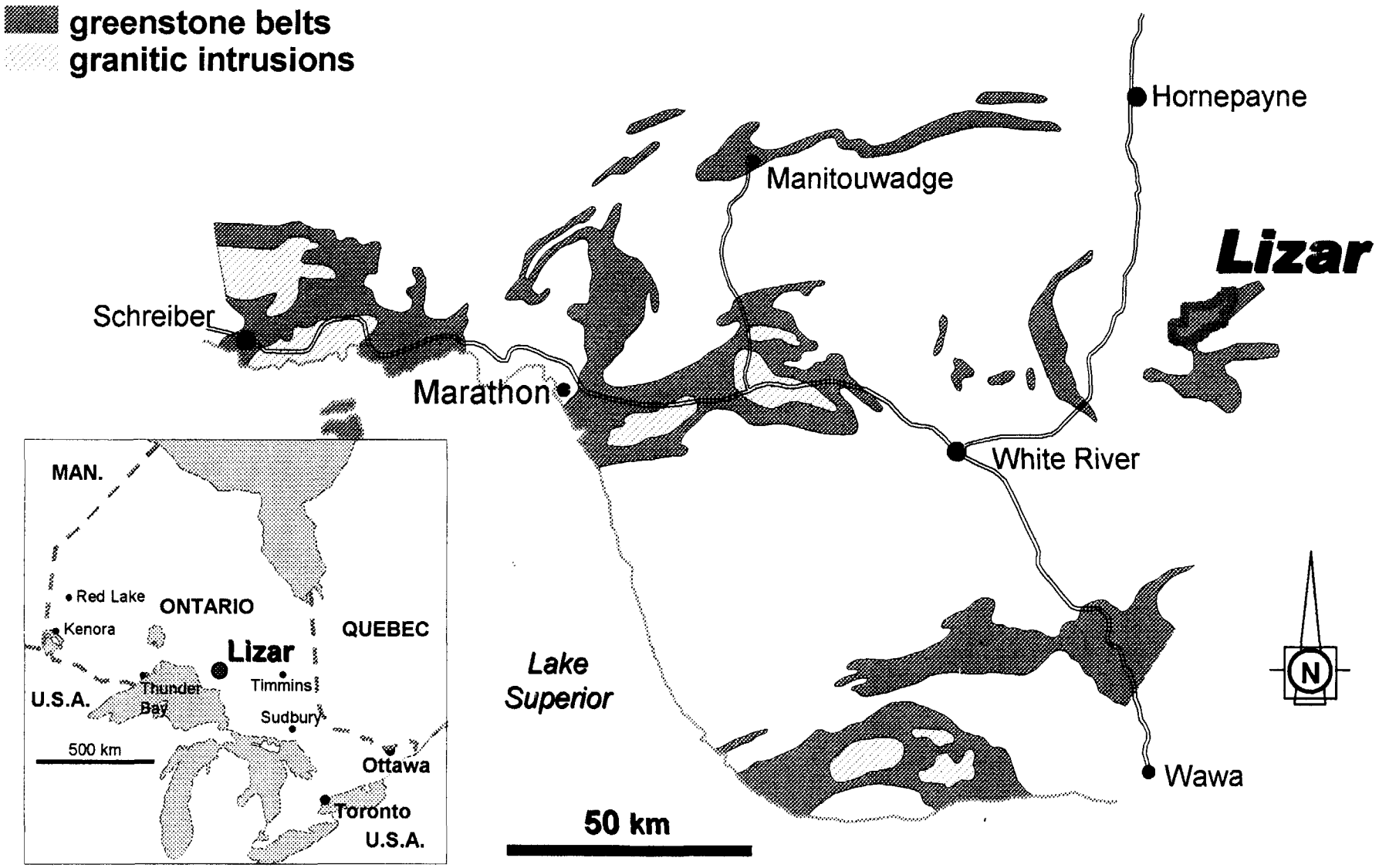


Figure 3: Regional Geology

Creek Shear Zone, transects nearly the entire property. A number of gold occurrences, including the past-producing Hiawatha Mine are related to this structure. Proterozoic diabase dykes intrude throughout the belt.

2003 EXPLORATION PROGRAM AND RESULTS

The 2003 exploration program on the Lizar property was aimed at acquiring complete geologic coverage to provide a framework to define the most favourable areas for further exploration work. More detailed work was completed in areas of known mineralization, namely the Patent and Nameigos grid areas referred to above. In addition to geological work, additional line-cutting and ground geophysical surveys were completed in 2003.

Geological mapping and sampling was conducted from May to September, 2003 by J. Lehtinen, D. Byrne, D. Legault, T. Hamilton, R. Weston, R. Richard and G. Archibald. The program was supervised by J. Paakki. Mapping was completed at a scale of 1:5,000 on five map sheets: South West, South Central, West, Central and North Central Sheets (Figures 5 to 9) utilizing existing and newly established grids and GPS control, and is complied in Figure 4.

Teck Cominco completed a ground geophysical UTEM surveys to follow-up electromagnetic anomalies from the 2002 airborne survey were completed prior to field mapping in March, 2003 by T. Campbell and D. Hall. Results of the ground survey are outlined below. A total of 60 line kilometers of grid was cut to facilitate ground surveys by Mtec, Thunder Bay, Ontario.

The following sections outline results of the exploration program. The property geology and structure together with mineralization types will be

summarized followed by geochemical results then results of the ground EM geophysical (UTEM) survey.

Geology and Mineralization

The Lizar property covers the northern limb and fold closure of a northeast-plunging, belt-scale syncline. This fold structure is readily apparent in magnetics data and supported by pillowed mafic flow top indicators and other supracrustal rocks which trend and dip accordingly (Paakki, 2003). Basal portion of the property stratigraphic section consists of mainly mafic volcanics with lesser ultramafic flows and probable intrusions grading upward into a sequence with increasing felsic lithologies capped by a package of sedimentary rocks. A number of intermediate to felsic intrusives likely of varying ages occur throughout the package. A description of property map units is tabled in Appendix I and is summarized below.

Mafic volcanics (Map Unit 2) are the predominant rock type observed on the property and include massive, pillowed, and lesser variolitic flows, flow breccias and chloritic schists. Massive flows range from fine-grained to coarser-grained varieties; the latter representing either thicker flows or sub-volcanic equivalents. Very coarse-grained mafics of uncertain origin were rock coded 2c/8, where Map Unit 8 refers to intrusive mafic rocks.

Within the northern and stratigraphically lower portion of the mafic sequence, laterally extensive, and previously unrecognized, ultramafic flows are mapped and confirmed geochemically with MgO contents of 35% (Map Unit 1). This map unit includes massive and well developed spinifex-textured flows, over widths ranging from less than 50 to 350 metres. The thickest portion of the ultramafic sequence occurs proximal to a large magnetic high feature with

coincident EM geophysical anomalies in the north-central part of the property which as noted above is a pyroxenite (Map Unit 8).

Felsic volcanics (Map Unit 4), although limited in their aerial extent, are perhaps the one of the most important rock types related at least spatially to mineralization, both gold and possible base metals. Felsics occur intermittently over a broad stratigraphic interval within mafic flows and overly the ultramafic flows described above. Mapped felsic volcanics include tuffs and local breccias, massive and quartz and quartz-feldspar phyric flows, and quartz-sericite schists. Some of the felsic units mapped, in particular quartz eye and quartz-feldspar phyric varieties, may represent sills or dykes. These units are coded as Map Unit 4h.

The largest volume of felsic volcanics occurs in the fold nose area in the southwestern part of the property, namely the Nameigos area. This large felsic volcanic pile measures up to 700 metres thick covering a strike length of some 2 kilometres and hosts a flanking sulphide zone referred to as the Nameigos Sulphide Zone. Sulphide mineralization is exposed in three existing trenches over a strike length of approximately 300 metres. The semi-massive, disseminated and stringer sulphide zone is 15 to 23 metres thick consisting primarily of pyrite, lesser pyrrhotite, +/- sphalerite and chalcopyrite. Host rocks are well sericitized.

Significant gold occurrences are also hosted within felsic volcanics rocks, specifically disseminated pyrite-hosted gold mineralization. New prospecting finds of this type by Freewest include the Kirk, Kyle and 42 Zones in the central part of the property (see Figure 8). Gold values up to 90.7 g/t Au were yielded from pyritic felsic lithologies occurring as discrete to irregular disseminated zones (e.g., 42 Zone) and anastomosing stringers/dykes cutting mafic volcanics (Kirk and Kyle Zones). Garnet alteration and complex mafic dykes are common in these areas of mineralization.

Clastic sedimentary rocks (Map Unit 6) cap the volcanic sequence and form the core of the belt-scale syncline. At the Kirk/Kyle/42 Zones and the Nameigos Sulphide Zone area, clastic sedimentary rocks are intercalated with felsics. Mapped sedimentary rocks include feldspathic arenites, siltstone and wackes and volcaniclastics.

Felsic intrusive rocks (Map Units 10 and 11) include discrete granitic to granodioritic plugs and dykes. Intrusion bodies occur in the Hiawatha mine area, in the central portion of the property, and an even larger, but late syenite body at the west end of the property, and dykes. Dykes are most often feldspar +/- quartz porphyritic and occur within, and define structural zones, namely the Bear Creek Shear Zone, described below.

The northeast-trending and steeply south dipping Bear Creek Shear Zone (BCSZ) has been previously identified as a major structure with the southern belt of the Kabinakagami greenstone belt associated with gold occurrences (Siragusa, 1977 and Wilson, 1993). The 2003 mapping program indicates that the BCSZ occurs as broad structural corridors along the limb portion of the synclinal fold described above (see Paakki, 2003). These corridors are in the order of 500 metres wide and are most readily identified by felsic dyke swarms as mentioned above and sheared lithologies. The western strike extent of the Bear Creek Shear Zone is ill-defined where it appears to "splay out" but is readily identified at the Hiawatha mine area to the northeast where it is focused along the contact of ultramafics and a granodiorite body, which is host to the gold-bearing quartz vein zones at Hiawatha (see above and Figure 9).

All lithologies and structures, including the BCSZ, described above are offset by several northwest-trending faults in the central part of the property.

Geochemical Surveys

Geochemical sampling in 2003 included property-wide outcrop sampling, detailed channel sampling of sulphide occurrences, and an orientation MMI (mobile metal ion) survey over selected areas to evaluate this technique as a possible exploration tool. Rock samples were analyzed by Global Discovery Labs in Vancouver, B.C. whereas MMI samples were shipped to SGS Labs in Don Mills, Ontario.

A total of 341 outcrop samples were collected including both grab and channel cuts and analyzed for gold and an ICP metals package (Appendix II, III and IV). A select number of samples were analyzed for major and minor oxides to confirm rock type and chemical composition (see Appendix II and III). Results of outcrop sampling indicate a strong cluster of anomalous gold values (+/- elevated As, Ag, Pb, Cu, Zn, Mo, and Bi) in the central part of the property proximal to a large granite/granodiorite intrusion, in particular its northern contact (see dot proportional plots in Appendix IV). Disappointingly, no other significant geochemical anomalies were returned in areas such as the Nameigos sulphide zone and the Stenabaugh occurrence.

Five areas were selected to conduct an orientation MMI survey (see Appendix V and 1:5,000 scale maps in back pocket). Each of the sample areas consisted of several closely spaced sample pits (M1 to M30) from which sample material was collected at depths of 10, 20 and 30 cm, where possible (88 samples total). Results of the survey failed to return anomalous values in areas of known mineralization (i.e., Kirk/Kyle area) but interestingly a number of the highest Au values (3 to 4 times background) occur at a sample area over the granitic intrusion mentioned above where geochemically anomalous gold values in outcrop samples also cluster.

Geophysical Surveys

In 2003, the UTEM survey covered two airborne electromagnetic anomalies in the northern portion of the property on Grids B and B1 which are referred to as UTEM Loop 1 and Loop 2 respectively (see Figures 7 and 8 for grid locations). The UTEM system is a large loop time-domain EM system which has the capabilities of detecting significant conductors at depth. The survey confirmed the location of the airborne EM anomalies on the ground (see Appendix VI).

CONCLUSIONS AND RECOMMENDATIONS

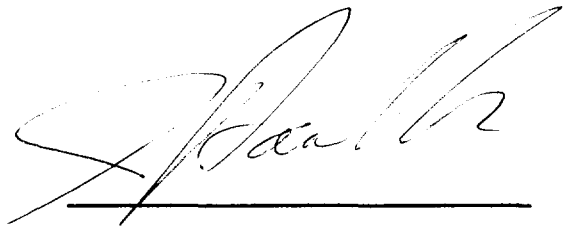
The large, 8,000+ hectare Lizar property hosts a number of new and historic gold occurrences and potential base metal targets including untested EM geophysical targets.

The primary gold target on the property is gold. Known occurrences include disseminated pyrite-hosted gold (e.g., Kirk, Kyle, and 42 Zones) and local quartz vein-hosted gold occurences. At present known disseminated pyrite types are erratic and lack continuity; however, these showings may represent only a part of a larger mineralizing system. Overburden areas along strike to the west are recommended for further evaluation, namely IP geophysics. Quartz-vein hosted gold includes geological and structural environments similar to the past-producing Hiawatha mine. One area may include the northern contact of the large granite/granodiorite intrusion and the Bear Creek Shear Zone in the central part of the property (gold geochemical anomaly).

Base metal targets include possibly further evaluation of the Nameigos sulphide zone in the southwest portion of the property as well as two geophysical EM targets.

Work in 2004 should include line-cutting, IP surveys and diamond drilling to test priority gold targets and EM conductors.

Respectfully submitted,
TECK COMINCO LIMITED



J. Paakki

June 20, 2004

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APPENDIX I

Lizar Property Rock Unit Descriptions

Ultramafic Volcanic Rocks

1a-Massive Flows
- -black, fine-grained to aphanitic
- -talc weathering rind common
- -local serpentinization and variably magnetic

1c-Spinifex Flows
- -dark green to black, coarse- to fine-grained
- -talc weathering rind common and variably magnetic
- -chlorite, carbonate and actinolite/tremolite altered
- -altered olivine crystals up to 2 cm in length

Mafic Volcanic Rocks

2a-Massive fine-grained Flows
- -medium to dark green
- -fine-grained to aphanitic
- -variably chlorite altered
- -generally featureless
- -very fine grained amphibole
- -minor epidote

2b-Pillowed Flows
- -medium to dark green, green-black
- -generally fine-grained to aphanitic
- -variably developed selvages
- -interpillow breccias
- -variolitic texture
- -pillows are all non vesicular
- -commonly epidote +/- quartz between pillows
- -occasional garnets developed interpillow

2c-Medium to Coarse Grained Flows
- -dark green to black
- -crystals average1-5mm, up to 1.5 cm in size
- -subhedral to euhedral crystals
- -60-90% amphibole, dominantly hornblende after pyroxene
- -up to 10% plagioclase and up to 10% quartz
- -variably magnetic
- -variable alteration -chlorite, silicification, pyrite
- -rarely garnetiferrous

2f-Variolitic Flows
- -dark green to black
- -medium to fine-grained
- -variolites commonly up to 1 cm in diameter
- -variolites weathering light grey in colour, hosted in dark green matrix
- -minor garnets (red-brown=almandine) in dark green matrix
- -variolites commonly above pillows in massive flows
- -grading of varioles common
- -density of varioles ranges from close packed at the base to 'matrix' supported

2g-Flow Breccia
- -fine-grained chloritic matrix
- -polymictic with predominantly felsic clasts 90-40%
- -clasts of various sizes
- -clast supported to matrix supported

2k-Chlorite Schist
- -dark green to black
- -medium to fine-grained
- -strong foliation
- -very soft and fissile

Felsic Volcanic Rocks

4a-Massive Flows
- -white to light grey to pink
- -fine-grained to aphanitic

4b-Feldspar +/- Quartz Porphyritic Flows
- -white to light-grey to pink
- -fine-grained to aphanitic matrix with phenocrysts of feldspars
- -quartz eyes variable in occurrence

4c-Quartz Porphyritic Flows
- -white to light grey to pink
- -fine-grained to aphanitic matrix with quartz eyes up to 1.0 cm

4d-Tuff/Lapilli Tuff
- -white to light grey to beige
- -fine to medium-grained
- -minor crystal component
- -layered
- -may have some minor biotite, garnets and aluminosilicates

4e-Tuff Breccia/Volcanic Breccia
- -includes pumice breccia
- -white to light grey to beige
- -fine-grained to medium-grained matrix
- -clasts are sub-rounded composed primarily of felsic tuff, with minor chloritic mafic fragments, pumiceous fragments with occurrences of minor sulphide replacement clasts

4f-Quartz-Sericite Schist
- -white with lighter grey-green
- -fine-grained to aphanitic
- -strong foliation

4h-Possible QP-QFP Sill
- -white to light grey to pink
- -fine-grained to aphanitic matrix
- -may or may not have phenocrysts of feldspars and/or quartz eyes up to 1 cm.

Clastic Sedimentary Rocks

6c-Felspathic arenite, siltite, wacke
- -grey to white grey
- -poorly sorted subangular to subrounded
- -5% granules of granite, fine-grained mafic, amphibolite less than 1 cm in size
- -70% medium-grained clasts of quartz and feldspar
- -minor aluminosilicates –staurolite, kyanite +/- sillimanite
- -20% clay matrix

6d-Biotitic Wacke
- -medium grey to dark grey
- -poorly sorted, subangular to subrounded
- -minor aluminosilicates –staurolite, kyanite +/- sillimanite
- -15% biotite

6g-Volcaniclastic Sedimentary Rock
- -brownish white to gray
- -poorly sorted fine-grained felsic sediment (tuff?) with biotite +/- garnet

Mafic and Ultramafic Intrusive Rocks

8a-Gabbro, coarse-grained amphibolite (possible coarse grained flow similar to unit 2C)
- -black

-coarse-grained (up to 1 cm) hornblende crystals
-10-20% fine grained plagioclase

8c-Pyroxenite (hornblendite-posssible coarse-grained flow similar to unit 2C)
-black to dark green
-coarse-grained (up to 1.5 cm) hornblende crystals in relict pyroxene form
-'knobby' texture
-may be magnetic

8g-Mafic dyke
-black to dark green
-fine-grained to aphanitic

Intermediate to Mafic Intrusive Rocks

9a-Diorite
-mesocratic (salt and pepper coloured)
-roughly equal amounts of coarse grained plagioclase and hornblende

9b-Quartz Diorite
-mesocratic (salt and pepper coloured)
-roughly equal amounts of coarse grained plagioclase and hornblende
-minor quartz present

Felsic to Intermediate Intrusive Rocks

10a-Granodiorite
-equigranular
-medium-grained
-accessory minerals= biotite, +/- pyrite, +/-magnetite
-occurs as dykes and plugs/stocks

10b-Granite
-eguigranular to K-spar phyric
-medium-grained
-accessory minerals= +/-biotite, +/-pyrite
-occurs as dykes and sills

10d-Syenite
-pink
-coarse grained equigranular
-alkaline feldspar with between 10-50% mafic minerals (mostly magnetite)
-occurs in one large stock and some minor dikes

High Level Intrusive Rocks

11-Quartz-feldspar porphyry
- -intermediate texture between units 4h and 10a
- -medium to fine-grained with equigranular quartz and feldspar phenocrysts.
- -quartz eyes to 5mm diameter
- -minor biotite

Proterozoic-Mafic Intrusive Rocks

12a-Diabase Dyke
- -brown on weathered surface with black(salt and pepper) fresh surface
- -diabasic texture
- -magnetic

Proterozoic-Alkalic Intrusive Rocks

Lamp-Lamprophyre dyke
- -black to dark grey
- -fine grained matrix of biotite with phenocrysts of biotite (up to 2cm long) commonly calcareous

APPENDIX II

Sample Number	Easting	Northing	Sample Type	Description
Z08751	675424	5411450	GRAB	2C, Hornblendite with tr PY& CPY, QZ lenses,BIO,SER
Z08752	678210	5408415	GRAB	2C with 1%PY as cubes & diss. Grab over 10m
Z08753	678210	5408415	GRAB	Py stringers in .25m zone @040/90
Z08754	677450	5408685	GRAB	1.0m strong iron stain, fracture fol'n@060/90, 15% PY in silicified 2c. QZ,PY,EPIDOTE
Z08755	678760	5411400	GRAB	Grab of float from local massive UM, <1% PY, minor FE stained QZ
Z08756	674474	5405746	GRAB	Rusty quartz eye rhyolite strong SER alt. Py strgrs and fracture fill.grab over 3.0m
Z08757	674450	5405735	GRAB	Py 10% Tr Po. Rhyolite, minor qz eyes
Z08758	672935	5405683	GRAB	grab of pelitic, biotiitc sed. with 5% Py
Z08759	673486	5404807	GRAB whole rock	Whole Rock. Feldspar porph. Diorite/andesite
Z08760	673178	5404601	GRAB	30cm. Wacke with qz stringers garnet + alumino silicates
Z08761	673462	5404951	GRAB	8a gabbro minor qz strgrs. Weak CPY, PO
Z08762	673045	5405950	GRAB	10 cm qz vein in silicified metased. Tr Py. Minor green mica or copper stain ?
Z08763	673033	5405925	GRAB	silicified seds/felsic breccia.Py clustering in mafics up to 15%.
Z08764	673022	5405963	GRAB	contact between U/M gabbro and qz eye rhy bx. Py 10% tr Cp and Po.
Z08765	673022	5405963	GRAB	silicified rhyolitebreccia. 4e/4c. Py 5% as stringers /blebs and diss.
Z08766	673028	5406014	GRAB	grab of qz sericite schist. Py 7-10%
Z08767	673475	5404635	GRAB whole rock	Whole rock. Rhy. Flow/lapilli tuff Trace moly.
Z08768	678957	5411366	GRAB whole rock	Whole rock. Spherulitic felsic flow. Dacite. BIO alteration.
Z08769	678713	5411456	GRAB	Silicified O/C near ultramafic contact Tr py.
Z08770	678698	5411425	GRAB	Qv hosted in weak shear. Fol'n. @ 040/90 stringer Bx zone 15 cm. Tr Py, Po.
Z08771	678536	5411260	GRAB	Qv up to 20 cm. Tr Po, Cpy.
Z08772	678522	5411231	GRAB	sample over 70 cm of fault bx. Weak Po,Py, <1 %
Z08773	677546	5407892	GRAB whole rock	Whole rock. Mafic to UM flow.
Z08774	677724	5407808	GRAB whole rock	Whole rock. Variolitic basalt.
Z08775	677358	5408779	GRAB	55 cm QV Unmineralized
Z08776	677373	5408776	GRAB	0.7 m intense SIL altered green rock. Protolith=2a,c
Z08777	677725	5408750	GRAB whole rock	whole rock 95% Hornblende, Py 0.5%
Z08778	677730	5408375	GRAB whole rock	Whole rock. 2C, 80% Hornblende, 20% plagioclase, tr py,cpy, weak sil/epidote stringers
Z08779	677973	5408137	GRAB	30 cm silicified fault.
Z08780	677907	5408254	GRAB	select samples with CPY. 5% Py, Tr Cpy.
Z08781	677984	5408152	GRAB whole rock	Whole rock . Hornblende gabbro
Z08782	677990	5408598	GRAB	1.5m of very rusty o/c Dominantly Bio/Hornblende. Py 7%, tr Po. Protolith= wacke?
Z08783	678607	5410905	GRAB	.75m BIO rich siliclastic = 6d.
Z08784	673672	5404772	GRAB	Grab from mafic dyke @end of channel samples. Tr py.
Z08785	673140	5405243	CHANNEL 1.0m	sulphide replacement in felsic pumice breccia. Py 5%, trace CPY
Z08786	673140	5405243	CHANNEL 1.0m	sulphide replacement in felsic pumice breccia. Py 5%, trace CPY
Z08787	673140	5405243	CHANNEL 1.0m	sulphide replacement in felsic pumice breccia. Py 5%, trace CPY
Z08788	673140	5405243	CHANNEL 1.0m	sulphide replacement in felsic pumice breccia. Py 5%, trace CPY
Z08789	673140	5405243	CHANNEL 1.0m	sulphide replacement in felsic pumice breccia. Py 5%, trace CPY
Z08790	673105	5405215	Whole rock grab	sample in strong Ser-Sil altered Rhyolite?
Z08791	673139	5405273	CHANNEL 0.96m	sample of strongly sulphidized gritty tuff. 8%Py,1%Po, 0.5%Cpy

Sample Number	Easting	Northing	Sample Type	Description
Z08792	670866	5405850	FLOAT	rusty granite float with trace moly
Z08793	670896	5405837	CHANNEL 0.55m	sulphide replacement of flow breccia? Po, Cpy, Py Total 5%
Z08794	678660	5410999	cut sample	whole rock and thin section of "spherulitic" flow, sed?
Z08795	678510	5411105	cut sample	whole rock and thin section from 30 cm dyke of weird comp. Plagioclase clusters in BIO,CHL matrix
Z08796	678485	5411070	select grab	select grab of CP-PO rich qz vein material from Vasey Stenabough trench CPY 3%
Z08801	677681	5408685	channel	coarse-grained mafic, 2% py,Chlorite atleration
Z08802	677681	5408685	channel	coarse-grained mafic, Minor py,Chlorite atleration
Z08803	677681	5408685	channel	coarse-grained mafic, 35% massive py
Z08804	677681	5408685	channel	coarse-grained mafic 2% py, magnetic
Z08805	677572	5408630	channel	coarse-grained Mafic, minor py, magnetic
Z08806	677572	5408630	channel	coarse-grained mafic, 1% py, magnetic
Z08807	677572	5408630	channel	coarse-grained mafic, 5% py, magnetic
Z08808	677572	5408630	channel	coarse-grained mafic, minor py, magnetic, epidote alteration
Z08809	677572	5408630	channel	coarse-grained mafic ,10% py along fabric, partically silicified
Z08810	678400	5408845	channel	quartz-sericite schist, 10% py, cpy, silicifed
Z08811	678112	5408790	channel	quartz feldspar porphyritic flow, minor py, silicified
Z08812	678112	5408790	channel	quartz feldspar porphyritic flow, minor py, silicified
Z08813	678112	5408790	channel	quartz feldspar porphyritic flow, minor py, silicified
Z08814	678112	5408790	channel	quartz feldspar porphyritic flow, minor py, silicified
Z08815	678235	5408779	channel	coarse-grained mafic, silicified, magnetic
Z08816	678235	5408779	channel	coarse-grained mafic, silicified, magnetic 2% py
Z08817	678235	5408779	channel	coarse-grained mafic, silicified, magnetic, 1-2% py, cpy
Z08818	678235	5408779	channel	coarse-grained mafic, silicified, magnetic, 25%py
Z08819	678235	5408779	channel	coarse-grained mafic, silicified, magnetic, 1-5% py
Z08820	678235	5408779	channel	coarse-grained mafic, silicified, magnetic, 1-5% py
Z08821	678235	5408779	channel	coarse-grained mafic, silicified, magnetic, 5% py stringers
Z08822	680540	5408875	grab	massive felsic flow, silicified
Z08823	678657	5410999	grab	spherulitic flow, 5%py, 2% cpy
Z08824	679471	5410772	channel	pillowed flow, with quartz veining, 2-5% py
Z08825	679471	5410772	channel	pillowed flow, with quartz veining
Z08826	679471	5410772	channel	fine-grained massive flow, with quartz veining, 2-5% py, epidote and calcerous alteration
Z08827	679471	5410772	channel	fine-grained massive flow, with quartz veining, 2-5% py, colloform texture
Z08828	677435	5408595	channel	4C, Ser-alteration, small QV, minor PY
Z08829	677435	5408595	channel	4C, Ser-alteration, Minor Py
Z08830	678320	5409410	channel	4C, Ser-alteration, 8% Py
Z08831	678320	5409410	channel	4C, Ser-alteration, 5%Py
Z08832	678921	5410324	channel	2C, Chl-alteration, 14cm granite vein, small QV, minor Py
Z08833	678921	5410324	channel	2C, Chl-alteration, 1% Py
Z08834	678921	5410324	channel	2C, Chl-alteration, 1% Py
Z08835	678924	5410320	channel	2C, Chl-alteration, minor py
Z08836	678924	5410320	channel	2C, Chl-alteration, 5 cm, lamprophyre dyke, minor Py

Sample Number	Easting	Northing	Sample Type	Description
Z08837	673650	5404852	channel	4F, Ser-alteration, 10% Py, minor Po
Z08838	673650	5404852	channel	4F, Ser-alteration, 15% PY, minor Po
Z08839	673650	5404852	channel	4F, Ser-alteration, 5% Py, magnetic
Z08840	673637	5404838	channel	4F, Ser-alteration, 5% Py, magnetic
Z08841	673637	5404838	channel	4F, Ser-alteration, 5% Py
Z08842	673637	5404838	channel	4F, Ser-alteration, 3% Py
Z08843	673637	5404838	channel	4F, Ser-alteration, 5% Py, small QV
Z08844	673634	5404838	channel	4F, Ser-alteration, 7% Py
Z08845	673634	5404838	channel	4F, Ser-alteration, 4% Py
Z08846	673634	5404838	channel	4F, Ser-alteration, 3% Py
Z08847	673634	5404838	channel	4F, Ser-alteration, 3% Py
Z08848	673634	5404838	channel	4F, Ser-alteration, 3% Py
Z08849	673634	5404838	channel	4F, Ser-alteration, 1% Py
Z08850	673634	5404838	channel	4F, Ser-alteration, minor Py
Z08852	677666	5411622	grab	contact between iron formation & mafic volcanic. Altered. PY, magnetite, red qtz.
Z08853	680731	5409957	grab	sheared mafic volcanics, large euhedral py, rusty alteration
Z08855	679400	5410620	grab	similar to sample Z09016
Z08856	679357	5410545	grab	fine-grained mafic. py, rusty zone 20 cm wide
Z08857	679196	5410371	grab	felsic intrusion, qtz vein, py, 20-30 cm wide
Z08858	679196	5410371	grab	same as Z08857
Z08859	678837	5410248	grab	granite with magnetite
Z08861	679425	5410842	grab	medium-grained 2c, dyke near shear zone
Z08862	679400	5410500	grab	2c dyke in highly altered mafic flows
Z08863	677587	5408608	grab	rusty dikes (approx Az. 125),in fine/medium-grained 2c
Z08864	677570	5408644	grab	rusty patch, host 2c or possibly 1a
Z08865	677506	5408742	grab	rusty patch between mafics and felsic dike
Z08866	677673	5408726	grab	rusty patch at contact between 2c and mafic dyke
Z08867	677692	5408700	grab	contact between mafic and felsic units
Z08868	678117	5408811	grab	contact between 2c and mafic brecciated dyke
Z08869	678235	5408803	grab	pyritic siliceous band within 2c
Z08870	678169	5408840	grab	minor qtz. Vein
Z08871	678611	5409192	grab	quartz stringers with trace pyrite and galena
Z08872	678611	5409192	grab	pyrite bands in 2c
Z08873	678333	5409399	grab	rusted sericite band in 4h unit in trench next to kyle/kirk road
Z08874	679533	5410721	grab	highly altered, epidote, chlorite, garnets with minor qtz stringers
Z08875	670950	5406386	grab	hornblendite,minor cpy., 2c/8, coarse grained. epidote veins
Z08876	671548	5404132	grab	felsic volc. Tuff, taken in small trench, some quartz veining
Z08877	671033	5405570	grab	fine grained hornblendite, magnetic, 1% pyrite, 1m wide zone
Z08878	670497	5404955	grab	highly foliated mafic volcanic, minor po veins
Z08879	681750	5412700	grab	2a,Tr-1% disseminated py., magnetic
Z08880	681717	5412750	grab	2a, massive, trace py

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Z08882	681959	5412928	grab	rusty quartz vein with trace pyrite, subparallel shear with qtz veining
Z08883	681960	5413020	grab	2a,coarse grained pyrite with silica
Z08884	681765	5413215	grab	rusty qtz vein in a shear in a qtz-sercite-porphyry
Z08901	676045	5411433	grab	felsic volcanic 5cm band, intercalated with mafic volcanics
Z08902	675011	5411469	grab	fine-grained mafic volcanic
Z08903	674994	5411441	grab	fine-grained mafic volcanic, disseminated 1% PY, carbonate alteration
Z08904	675100	5411400	grab	fine-grained mafic volcanic
Z08905	675100	5411950	grab	fine-grained mafic volcanic, 1% disseminated euhedral Py
Z08906	675690	5411215	grab	lapilli tuff, biotite
Z08907	675690	5411215	grab	quartz feldspar porphyry, with rust spots
Z08908	675690	5411215	grab	fine-grained mafic volcanic
Z08909	676241	5408276	grab	chloritic schist with biotite and amphiboles, rusted spots
Z08910	675890	5408696	grab	fine grain mafic volcanic magnetic, 2% sulfides
Z08911	675780	5408748	grab	fine to coarse-grained mafic volcanic(pillows?), <1% Py
Z08912	675490	5408671	grab	coarse-grained mafic volcanic, 1% Py
Z08913	675928	5408832	grab	coarse-grained mafic volcanic 1% garnet, 1% Py
Z08914	675910	5408742	grab	coarse-grained mafic volcanic 1% garnet, stringer of Py
Z08916	675910	5408742	grab	coarse-grained mafic volcanic 1% garnet, stringer of Py,Cpy
Z08917	675754	5408533	grab	coarse-grained mafic volcanic. Garnet. magnetic
Z08918	675864	5408732	grab	coarse-grained mafic volcanic, white alteration with actinolite needles
Z08919	675510	5408746	grab	magnetic coarse-grained mafic volcanic.1% Py
Z08920	678927	5411542	grab	fine-grained mafic volcanic.Sheared
Z08921	679625	5411648	grab	quartz feldspar porphyry. Rust spots, 1% Py and Cpy
Z08922	678861	5411419	grab	fine-grained mafic volcanic, rust stains
Z08923	678762	5411300	grab	quartz porphyry, 1% disseminated Py
Z08924	678602	5411184	grab	chloritic schist, rusted spots
Z08925	678217	5411817	grab	felsic lapilli tuff and coarse grain mafic volcanic, rusted contact
Z08926	680280	5411230	grab	mafic pillows, qtz and epidote alteration rusted rims of pillows
Z08927	680192	5411221	grab	coarse grain, plagioclase phyric mafic volcanic, silicified
Z08928	680220	5411307	grab	felsic lapilli tuff
Z08929	680975	5412153	grab	fine-grained mafic volcanic 1% Py, qtz veins
Z08930	680975	5412153	grab	quartz sericite schist, 35 cm wide in mafic volcanics
Z08931	680945	5412020	grab	mafic lapilli tuff, rusty
Z08932	680945	5412020	grab	mafic lapilli tuff. Rusty
Z08933	676929	5407123	grab	fine-grained mafic volcanic, rusty
Z08934	676929	5407123	grab	felsic quartz porphyritic volcanic, 1% blue qtz eyes
Z08935	674477	5405733	hi-grade grab	4C, qtz eyes, strong sericite alteration, 30 % sulfide Py,+/-Po. Stenabaugh trench
Z08936	674477	5405733	grab	4C, qtz eyes, strong sericite alteration, 1 % sulfide Py,+/-Po, Stenabaugh trench
Z08937	673500	5404310	grab	6C, Gt+Chl+Ser, 2% Py, tie-line between lines 5S and 6S
Z08938	673971	5404927	grab	2C, disseminated sulfide, 2% Py and Po, line 5S
Z08939	673822	5404693	grab	4D, disseminated Py, parallel to shistosity, base line between lines 5S and 6S

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Z08940	673449	5405211	grab	2A, Gt and Chl, 1% Py, line 1N
Z08941	673439	5405207	grab	6C, Gt and sericite alteration, 2% Py, line 1N
Z08942	673426	5405038	hi-grade grab	6C, pervasive sericite alteration, 15-20% pyrite, base line and line 0
Z08943	673211	5405041	grab	4D,qtz eyes, 10% Py,+/- Cp, sericite alteration
Z08944	673211	5405041	grab	4D,qtz eyes, 10% Py,+/- Cp, sericite alteration
Z08945	673211	5405041	grab	mafic clast within 4D, 5% Py
Z08946	673335	5405449	grab	4D, Gt, Chl, 1% sulfide Py,+/- Cpy
Z08947	674281	5405831	grab	2C,B?, Hornblende, Gt, 2% Py parallel to shistosity
Z08948	674177	5405805	grab	2C, Gt, 1% Py
Z08949	674177	5405805	grab	4C, disseminated Py and Gt
Z08950	674087	5405764	grab	4E, 1% disseminated Py
Z08951	678370	5408100	grab	quartz veins in fine grained mafic, with Po
Z08952	677270	5408629	grab	coarse-grained mafic volcanic, minor pyrite
Z08953	680200	5408748	grab	coarse-grained mafic volcanic, qtz veins,minor pyrite
Z08954	680312	5409812	grab	medium-grained mafic volcanic, minor pyrite,some epidote and minor qtz veins
Z08955	680276	5409962	grab	fine-grained mafic volcanics,stringer pyrite,rusty alteration, magnetic
Z08956	680262	5409824	grab	fine-grained mafic volcanics, 10% pyrite, visible magnetite, old trench
Z08957	678948	5408224	grab	felsic volcanic, intercalated with mafic volcanics, silicified, minor pyrite
Z08958	680502	5408899	grab	contact of mafic volcanic and silicifled zone, minor py, po,cpy
Z08959	680473	5410351	grab	fine-grained mafic volcanic near contact, highly chloritized, minor pyrite
Z08960	673071	5405356	grab	felsic ash tuff with qtz eyes,sericite alteration, minor pyrite
Z08961	673114	5405370	grab	biotite wacke ,sericite alteration, minor pyrite
Z08962	673116	5405292	grab	fragmental tuff with sulfide clasts, sericite alteration, minor pyrite
Z08963	673080	5405336	grab	tuff/volcanoclastic sed.highly altered sericite and pyrite
Z08964	672901	5405514	grab	felsic volcanic tuff breccia, minor disseminated pyrite, some sericite alteration
Z08965	672899	5405512	grab	felsic volcanic tuff breccia, minor disseminated pyrite, some sericite alteration
Z08966	672914	5405516	grab	felsic volcanic tuff breccia, minor disseminated pyrite and po
Z08967	672772	5405652	grab	fine-grained biotitic sed., minor pyrite, some sericite alteration
Z08968	672545	5405285	grab	coarse-grained ultramafic with talc weathering, magnetic
Z08969	672532	5405238	grab	fine-grained ultramafic with talc weathering, magnetic
Z08970	678663	5408772	grab	medium to fine-grained mafic volcanic flow, magnetic
Z08971	678096	5408515	grab	thin mafic volcanic flow (or zenolith) in QFP, minor pyrite and epidote
Z08972	672013	5405891	grab	fine-grained mafic volcanic with blebs and stringers of felsic material, minor pyrite
Z08973	671229	5405317	grab	fine-grained mafic volcanic with blebs of pyrite, near contact with cg mafic volcanic
Z08974	671410	5405485	grab	fine-grained ultramafic with minor pyrite, magnetic, serpentine present
Z08975	671448	5405121	grab	10 m wide shear zone, between ultramafic and felsic unit, minor pyrite, silicified
Z08976	671548	5404132	grab	Halverson 11, fine-grained felsic unit, sericite alteration, small lamp. dyke present
Z08977	682129	5414044	grab	Kalibak North, highly siliceous felsic?, minor sericite, >5m width, 75m strike,
Z08978	682129	5414044	grab	2% py,2%, po, minor chalacopyrite
Z08979	682129	5414044	grab	8977-8979 north to south, over 1.5m
Z08980	682158	5414068	grab	same as Z08977-Z08979

Sample Number	Easting	Northing	Sample Type	Description
Z08981	682212	5414099	grab	komatiite, serpentine rich long crystals up to 4cm(spinifex texture)
Z09001	678921	5410326	grab	fine-grained mafic volcanics,stringer pyrite,rusty alteration
Z09002	679198	5410400	grab	qtz vein, py stringers
Z09003	679031	5410375	grab	fine-grained mafic volc, sheared, py
Z09004	679752	5411207	grab	qtz pod, mafic pillow host, py zone, 10-15cm wide
Z09005	679809	5411237	grab	felsic dyke, mafic pillow host, py
Z09006	677813	5411614	grab	mica schist, felsic host, py +/- cpy
Z09007	676423	5407233	grab	felsic dyke, mafic fine grained host, py rusty zone, 3-4m wide
Z09008	676423	5407233	grab	mafic fine grained, py rusty zone, host sample 9007
Z09009	675305	5406598	grab	volcaniclastic in mafic unit, muscovite, carbonate, epidote and qtz veins
Z09010	675265	5406708	grab	fine-grained mafic, epidote, qtz veins, rusty
Z09011	675909	5408034	grab	mafic near sediment inclusion, py, trench
Z09012	679494	5410788	grab	pillow basalts, py, zone 20 cm wide, qtz veins
Z09013	679897	5410265	grab	qtz-feldspar vein, sediment inclusion, py +/- cpy, 2m zone, fine-grained. Mafic host, Charpentier show
Z09014	679968	5410264	grab	similar to sample Z09013, 3-4 m wide, py, cpy, ser
Z09015	679968	5410264	grab	similar to sample Z09013, 3-4 m wide, py, cpy, ser
Z09016	679401	5410581	grab	fine-grained mafic host, py, sheared, zone 18-25 cm wide, disappears under cover
Z09017	679197	5410400	grab	qtz vein, fine-grained mafic host, py, 10-15 cm wide, shear zone
Z09018	678805	5410208	grab	brecciated rock, felsic and mafic clasts, near shear zone, py, bio, hbl
Z09019	678921	5410322	grab	fine-grained mafic volc, sheared, py, rusty qtz75 cm wide
Z09020	678678	5410962	grab	felsic rock near ultramafics, py bands, 50 cm wide, purple colour
Z09021	679486	5410790	grab	fine grained mafic, shear zone at end of Kyle-Kirk road, py, lamp dyke
Z09022	679486	5410790	grab	fine grained mafic, shear zone at end of Kyle-Kirk road, py, lamp dyke
Z09023	679401	5410581	grab	brecciated felsic, py, silica alt, near shear zone
Z09024	672988	5406011	grab	mafic sed (pelite), mag, bio-rich, py
Z09025	673029	5405977	grab	4d, silicified, qz vn, py, muscovite, ser
Z09026	673256	5405500	grab	sed-mafic contact, py
Z09027	671397	5404800	grab	2c, py, qz pods, +/- cpy,
Z09028	671347	5406220	grab	30 cm 4b dyke, in 2c, py,
Z09029	679497	5410758	grab	10b dyke cuttng shear zone, 10b is syn-shear, py
Z09030	679815	5410742	grab	2a-2b, epidote, chlorite, carbonate, silicified, shear bands, unit is folded, extension of shear zone
Z09031	670228	5405612	grab	2a, hornblende, py, +/- cpy, disseminated sulfides,
Z09032	679000	5409950	grab	10 a, near MMI lines over granite, sample from granite hill, no sulfides present
Z09033	679000	5409925	grab	2a xenolith in 10b at granite hill, no sulfides prsent,
Z09034	650768	5413927	grab	2a, diss. Py, massive
Z09035	682090	5413090	grab	4c float on skidder road, py
Z09036	682130	5413060	grab	2a-1a unit on skidder road, sheared with diss py
Z09037	683430	5413160	grab	lamp dyke, diss. py, garnet
Z09038	683280	5413241	grab	2k, disseminated. py,cpy, actinolite
Z09051	673634	5404838	channel	4F, Ser-alteration, minor Py
Z09052	673634	5404838	channel	4F, Ser-alteration, minor Py

Sample Number	Easting	Northing	Sample Type	Description
Z09052	681115	5414216	grab	silicified 2a with carbonate alteration and minor py
Z09053	673621	5404820	channel	4F, Ser-alteration, minor Py
Z09054	673621	5404820	channel	4F, Ser-alteration, minor Py
Z09055	673621	5404820	channel	4F, Ser-alteration, minor Py
Z09056	673621	5404820	channel	4F, Ser-alteration, minor Py
Z09057	673621	5404820	channel	4F, Ser-alteration, 1% Py, QV-STR
Z09058	673564	5404918	channel	4F, Ser-alteration, 15% PY, minor Po
Z09059	673564	5404918	channel	4F, Ser-alteration, 30% Py, minor Po
Z09060	673564	5404918	channel	4F, Ser-alteration, 25% Py, minor Po
Z09061	673564	5404918	channel	4F, Ser-alteration, 10% Py, minor Po
Z09062	673564	5404918	channel	4F, Ser-alteration, 5% Py, mag
Z09063	673564	5404918	channel	4F, Ser-alteration, 3%Py, mag
Z09064	673564	5404918	channel	4F, Ser-alteration, 2% Py
Z09065	673564	5404918	channel	4F, Ser-alteration, 4%Py
Z09066	673564	5404918	channel	4F, Sere-alteration, 1% Py
Z09067	673564	5404918	channel	4F, Ser-alteration, 1% Py
Z09068	673564	5404918	channel	4F, Ser-alteration, minor Py
Z09069	673564	5404918	channel	4F, Ser-alteration, minor Py
Z09070	673564	5404918	channel	4F, Ser-alteration, minor Py
Z09071	673564	5404918	channel	4F, Ser-alteration, minor Py
Z09072	673685	5404800	channel	4F, Ser-alteration, 15% PY, minor Po
Z09073	673685	5404800	channel	4F, Ser-alteration, 5% Py, minor Po
Z09074	673685	5404800	channel	4F, Ser-alteration, 5% Py, minor Po
Z09075	673685	5404800	channel	4F, Ser-alteration, 15% PY, minor Po
Z09076	673685	5404800	channel	4F, Ser-alteration, 20% Py, minor Po
Z09077	673685	5404800	channel	4F, Ser-alteration, 15% PY, minor Po
Z09078	673685	5404800	channel	4F, Ser-alteration, 35% Py, minor Po
Z09079	673685	5404800	channel	4F, Ser-alteration, 25% Py, minor Po
Z09080	673685	5404800	channel	4F, Ser-alteration, 30% Py, minor Po
Z09081	673685	5404800	channel	4F, Ser-alteration, 15% PY, minor Po
Z09082	673685	5404800	channel	4F, Ser-alteration, 20% Py, minor Po
Z09083	673685	5404800	channel	4F, Ser-alteration, 4%Py
Z09084	673685	5404800	channel	4F, Ser-alteration, 4%Py
Z09085	673685	5404800	channel	4F, Ser-alteration, 4%Py
Z09086	673673	5404771	channel	4F, Ser-alteration, minor Py
Z09087	673673	5404771	channel	4F, Ser-alteration, minor Py
Z09088	673673	5404771	channel	4F, Ser-alteration, minor Py
Z09089	673673	5404771	channel	4F, Ser-alteration, minor Py
Z09090	673673	5404771	channel	6g,4d, Ser-alteration, minor Py, mag
Z09091	673673	5404771	channel	6g,4d, Ser-alteration, 2% Py, mag
Z09092	673673	5404771	channel	6g,4d, Ser-alteration, 2% Py

Sample Number	Easting	Northing	Sample Type	Description
Z09093	673673	5404771	channel	6g,4d, Ser-alteration, 1% Py
Z09094	673673	5404771	channel	6g,4d, Ser-alteration, 1% Py
Z09095	673673	5404771	channel	6g,4d, Ser-alteration, 1% Py
Z09096	679497	5410758	grab	silicified 2a, breccia with qv. Sph?, Epidote + carbonate alt. Next to Z08874
Z09097	671375	5406060	grab	2a, with minor Py, Chl alteration and qz-str.
Z09098	679820	5410755	grab	sheared 2b with Epidote + carbonate alteration.
Z09099	671096	5405645	grab	sheared, mica rich 6h, 4d with minor py
Z09100	671720	5405281	grab	mica rich breccia 2g with 1% PY
Z09101	674075	5405773	grab	Float, silicified, 5% Py, 1% Cpy
Z09102	673842	5406013	grab	rusted qtz vein with Chl and cavities, colloform texture
Z09103	672998	5406848	grab	qtz vein in shear band, euhedral smoky qtz and 1% Py
Z09104	672689	5406344	grab	2A, 15 cm mineralized band 2-3% Py and Cpy
Z09105	670891	5405971	grab	2C, 5% sulfides Py and Po, net textured
Z09106	670918	5405995	grab	2C, 2% sulfides Py and Po
Z09107	674844	5406139	grab	2C, 2% sulfides Py and Po
Z09108	674844	5406139	grab	2C, 2% sulfides Py and Po
Z09109	681250	5412283	grab	2b, silicified band withEpidote, 2%Py
Z09110	681352	5412429	grab	4h shistosed, 1%Py
Z09111	681352	5412429	grab	2a, 1%Py In shistosity
Z09112	681352	5412429	grab	2a with quartz band 1%Py in clots
Z09113	681352	5412429	grab	2a, near 1a dyke, 1%Py trace Cpy
Z09114	681346	5412553	grab	2b, silicified band with Epidote, 2%Py
Z09115	681295	5412587	grab	chlorite schist with carbonate alteration trace Py
Z09116	681218	5412659	grab	granodiorite, 1-3% Py
Z09117	682233	5412313	grab	quartz vein parallel to fabric, 3 mX15 cm, carb alteration with garnet band, iron stained
Z09118	682291	5412349	grab	2a strongly strained, chloritized with slight silicification, iron stained
Z09119	682090	5413038	grab	2-3cm wide Ep-Qz-Py+/-Cp vein/stringer in fg massive mafic flow. ~0.5% fg Py>>Cp. Vein @ 256/80 N.
Z09120	682668	5412630	grab	silicified granodiorite, 4 mm stringer of disseminated Py, Po, Cpy
Z09121	682832	5412982	grab	2c, qtz filled fractures, iron staining surrounding the vein
Z09122	683028	5413003	grab	2a, actinolite and pyrite 1%
Z09123	683070	5412952	grab	silicified rock maybe mafic protolith, iron staining 1% Py disseminated
Z09124	683657	5414405	grab	2a, silicified Ep, potassic, 1% Py, iron staining
Z09125	683751	5414316	grab	2a with qtz filled fractures, iron staining and Py surround the fractures
Z09126	683763	5414306	grab	4h with potassic alteration, 1% disseminated Py
Z09127	683746	5414308	grab	qtz vein 2m X 15 cm, with trace Py
Z09128	683746	5414308	grab	adjoining wall rock from Z09127, 2-3% Py
Z09129	683729	5414503	grab	chloritized 2a, iron stained potassic veinlets with halo of Epidote surrounding veinlets
Z09130	683651	5414563	grab	4h with iron staining
Z09131	684055	5414428	grab	4h, 3-4% Py, trace Cpy, surrounds a qtz vein
Z09132	684055	5414428	grab	4h as above 2% Py
Z09133	684055	5414428	grab	4h as above 1% Py

Sample Number	Easting	Northing	Sample Type	Description
Z09134	683983	5414451	grab	2a with potassic veinlets 2% Py
Z09135	683958	5414424	grab	2a, 5-6% Py along fabric, disseminated
Z09136	683958	5414424	grab	4f, qtz sericite schist, 5% Py disseminated and along fabric
Z09137	683958	5414424	grab	silicified 4h, 1-2% Py, disseminated
Z09138	684111	5414664	grab	qtz vein oblique to fabric, 1% Py and trace Cpy
Z09139	684201	5414583	grab	4h, 1% disseminated Py
Z09140	671739	5410662	grab	2a, 1% Py disseminated in very fine stringers
Z09151	680871	5413454	grab	2a with carbonate alteration and minor py
Z09201	682687	5413442	grab	pervasively Fe-stained 4h, up to 0.5% dissem Py throughout
Z09202	682734	5413768	grab	20-30cm wide laminated qz>>chl vein containing brecciated wallrock frags. No visible sulphide. Orientation 340/86 E
Z09203	682686	5413800	grab	2-3cm rusty qz-ep vein within a 30-40cm rusty shear zone (@ 256/78 NW). Tr fine-grained Py within wallrock.
Z09204	682856	5413976	grab	fg mafic volcanic with thin calcite veinlets and tr Py and Cpy. In small slip plane @ 020/62 E
Z09205	683015	5414009	chip	1-10% diss. Py>Po-Cpy-Gn in a 10-20cm rusty qz vein (040-060/90) in a 20-35cm wide sheared and sulphidized UM? Dyke.
Z09206	683015	5414009	grab	cg, soft, chloritic and weakly magnetic, foliated 20-35cm UM? dyke(040-060/90). Up to 2% dissem Py/Po+/-Cpy.
Z09207	684072	5414631	grab	2-5% cg cubic Py in a chl-altered 2b. 4-25cm wide milky white qz vein @ 062/84 S. Qz-Ep-Kf str in wallrocks.
Z09208	684257	5414566	grab	Tr-1% mg euhedral dissem Py in a weak calcite altered well foliated 4h/10a. Weak patchy Ep.
Z09209	684236	5414677	grab	2-3% fg-mg dissem Py within foliated 10a.
Z09210	671242	5409838	grab	Rusty shear zone.Folded and boudined milky white qz veins in a 20-60cm rusty ser schist @ 028/76 E.

APPENDIX III

LIZAR-CEX

Job V 03-0317R

#8751-9023(SERIES)

Report date 12 JAN 2004

LAB NO	FIELD NUMBER	Au ppb	Wt Au gram	Hg ppb
R0308257	Z08751	<10	10	<10
R0308258	Z08752	<10	10	<10
R0308259	Z08753	<10	10	<10
R0308260	Z08754	10	10	<10
R0308261	Z08755	<10	10	<10
R0308262	Z08801	<10	10	<10
R0308263	Z08802	<10	10	<10
R0308264	Z08803	<10	10	<10
R0308265	Z08804	<10	10	<10
R0308266	Z08805	<10	10	<10
R0308267	Z08806	<10	10	<10
R0308268	Z08807	10	10	<10
R0308269	Z08808	<10	10	<10
R0308270	Z08809	12	10	<10
R0308271	Z08810	30	10	<10
R0308272	Z08811	10	10	<10
R0308273	Z08812	10	10	<10
R0308274	Z08813	10	10	<10
R0308275	Z08814	<10	10	<10
R0308276	Z08815	12	10	<10
R0308277	Z08816	15	10	<10
R0308278	Z08817	25	10	<10
R0308279	Z08818	75	10	<10
R0308280	Z08819	11	10	<10
R0308281	Z08820	225	10	<10
R0308282	Z08821	145	10	<10
R0308283	Z08822	<10	10	<10
R0308284	Z08823	955	10	<10
R0308285	Z08824	10	10	<10
R0308286	Z08825	135	10	<10
R0308287	Z08826	10	10	<10
R0308288	Z08827	<10	10	<10
R0308289	Z08852	<10	10	<10
R0308290	Z08853	<10	10	<10
R0308291	Z08855	<10	10	<10
R0308292	Z08856	<10	10	<10
R0308293	Z08857	380	10	<10
R0308294	Z08858	1400	10	<10
R0308295	Z08859	<10	10	<10
R0308296	Z08901	<10	10	<10
R0308297	Z08902	<10	10	<10
R0308298	Z08903	<10	10	<10
R0308299	Z08904	<10	10	<10
R0308300	Z08905	<10	10	<10
R0308301	Z08906	<10	10	<10
R0308302	Z08907	<10	10	<10
R0308303	Z08908	<10	10	<10
R0308304	Z08909	<10	10	<10
R0308305	Z08910	<10	10	<10
R0308306	Z08911	<10	10	<10
R0308307	Z08912	10	10	<10

LAB NO	FIELD NUMBER	Au ppb	Wt Au gram	Hg ppb
R0308308	Z08913	<10	10	<10
R0308309	Z08914	<10	10	<10
R0308310	Z08916	10	10	<10
R0308311	Z08917	<10	10	<10
R0308312	Z08918	<10	10	<10
R0308313	Z08919	<10	10	<10
R0308314	Z08920	<10	10	<10
R0308315	Z08921	<10	10	<10
R0308316	Z08922	<10	10	<10
R0308317	Z08923	<10	10	<10
R0308318	Z08924	<10	10	<10
R0308319	Z08925	<10	10	<10
R0308320	Z08926	<10	10	<10
R0308321	Z08927	<10	10	<10
R0308322	Z08928	<10	10	<10
R0308323	Z08929	<10	10	<10
R0308324	Z08930	10	10	<10
R0308325	Z08931	15	10	<10
R0308326	Z08932	<10	10	<10
R0308327	Z08933	<10	10	<10
R0308328	Z08934	<10	10	<10
R0308329	Z08951	10	10	<10
R0308330	Z08952	<10	10	<10
R0308331	Z08953	<10	10	<10
R0308332	Z08954	<10	10	<10
R0308333	Z08955	<10	10	<10
R0308334	Z08956	300	10	<10
R0308335	Z08957	<10	10	<10
R0308336	Z08958	<10	10	<10
R0308337	Z08959	<10	10	<10
R0308338	Z09001	12	10	<10
R0308339	Z09002	80	10	<10
R0308340	Z09003	20	10	<10
R0308341	Z09004	<10	10	<10
R0308342	Z09006	<10	10	<10
R0308343	Z09007	<10	10	<10
R0308344	Z09008	10	10	<10
R0308345	Z09009	<10	10	<10
R0308346	Z09010	<10	10	<10
R0308347	Z09011	<10	10	<10
R0308348	Z09012	50	10	<10
R0308349	Z09013	10	10	<10
R0308350	Z09014	570	10	40
R0308351	Z09015	205	10	<10
R0308352	Z09016	10	10	<10
R0308353	Z09017	20	10	<10
R0308354	Z09018	<10	10	<10
R0308355	Z09019	<10	10	<10
R0308356	Z09020	<10	10	<10
R0308357	Z09021	930	10	<10
R0308358	Z09022	440	10	<10
R0308359	Z09023	<10	10	<10

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised
If requested analyses are not shown ,results are to follow

Au	Aqua regia decomposition / solvent extraction / AAS
Wt Au	The weight of sample taken to analyse for gold (geochem)
Hg	Flameless AAS

LIZAR-CEX

Job V 03-0317R

#8751-9023(SERIES)

Report date 12 JAN 2004

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
R0308257	Z08751	311	11	59	.5	<2	27	<1	21	56	2.01	<2	129	<5	<5	45	<2	<2	6	2	<2	215	.91	.09	1.24	.92	.1	.16	214
R0308258	Z08752	105	10	47	<.4	<2	35	<1	24	20	4.13	<2	42	<5	<5	111	<2	<2	5	9	5	358	.64	.15	1.23	1.27	.19	.14	528
R0308259	Z08753	207	12	70	.5	<2	17	<1	37	54	6.42	4	45	<5	5	265	<2	<2	8	2	7	407	.91	.25	1.59	.9	.09	.05	216
R0308260	Z08754	22	11	22	.7	<2	8	<1	33	37	7.47	5	105	<5	<5	127	<2	<2	12	4	6	244	.61	.14	.95	.3	.05	.04	357
R0308261	Z08755	77	<4	28	<.4	<2	76	<1	27	134	2.31	<2	376	<5	<5	45	<2	<2	7	<2	<2	186	1.45	.13	1.42	.49	.06	.65	167
R0308262	Z08801	1	6	91	<.4	2	6	<1	25	38	5.23	5	88	<5	<5	80	2	<2	43	6	22	717	1.53	.14	2.47	1.02	.03	.01	1609
R0308263	Z08802	59	4	80	.4	<2	8	<1	27	9	5.34	<2	41	<5	<5	84	<2	<2	31	7	8	633	.86	.19	1.58	.82	.05	.03	804
R0308264	Z08803	79	23	145	.5	8	6	<1	51	5	11.14	<2	36	<5	<5	111	<2	<2	11	8	5	827	.87	.21	1.89	.65	.07	.05	607
R0308265	Z08804	22	6	108	.4	<2	6	<1	27	3	6.56	<2	33	<5	<5	105	<2	<2	13	12	3	716	.77	.18	1.82	1.34	.14	.04	641
R0308266	Z08805	60	<4	47	<.4	<2	6	<1	53	25	6.4	<2	18	<5	<5	246	<2	<2	5	2	<2	630	1.04	.33	1.78	1.36	.12	.07	186
R0308267	Z08806	51	5	50	.5	<2	8	<1	56	22	6.73	3	25	<5	<5	274	<2	<2	5	3	2	599	1.16	.32	2.26	1.71	.17	.11	199
R0308268	Z08807	46	4	43	<.4	<2	<5	<1	57	25	6.15	<2	19	<5	<5	229	<2	<2	5	2	4	544	.98	.26	1.76	1.32	.14	.07	186
R0308269	Z08808	90	<4	35	<.4	<2	10	<1	43	32	7.52	<2	14	<5	<5	219	<2	<2	4	2	7	753	.87	.34	1.26	1.17	.06	.08	151
R0308270	Z08809	55	<4	23	<.4	<2	11	<1	40	20	4.73	21	29	<5	<5	159	<2	<2	4	2	<2	568	.61	.26	1.08	1.46	.09	.07	174
R0308271	Z08810	138	45	359	10.5	<2	17	<1	58	11	12.35	<2	19	<5	<5	198	<2	<2	2	12	8	608	.82	.2	1.61	.6	.06	.11	535
R0308272	Z08811	9	<4	41	<.4	3	40	<1	6	9	2.38	<2	43	<5	<5	23	<2	<2	30	3	9	417	.74	.08	2.47	.75	.16	.6	343
R0308273	Z08812	15	<4	34	.5	2	41	<1	8	12	2.24	<2	68	<5	<5	20	<2	<2	31	2	10	337	.59	.06	2.05	.71	.16	.46	328
R0308274	Z08813	17	<4	63	<.4	3	63	<1	11	18	2.54	<2	76	<5	<5	33	2	<2	34	3	12	317	.71	.09	2.4	.77	.16	.54	381
R0308275	Z08814	236	4	10	.4	<2	110	<1	49	22	4.35	<2	117	<5	<5	91	3	<2	6	3	13	66	1.09	.14	2.06	.15	.07	.99	378
R0308276	Z08815	194	25	319	1.3	<2	30	<1	44	16	10.68	<2	54	<5	<5	172	<2	<2	3	16	5	736	1.09	.29	2.19	.78	.07	.53	665
R0308277	Z08816	41	6	68	.6	<2	53	<1	25	6	6.74	<2	71	<5	<5	71	<2	<2	4	17	5	541	.63	.15	1.67	.95	.14	.15	750
R0308278	Z08817	52	6	63	.9	<2	39	<1	41	20	11.59	<2	48	<5	<5	212	<2	4	5	9	9	779	1.1	.25	2.22	1.7	.07	.64	616
R0308279	Z08818	63	11	37	.9	16	15	<1	57	22	11.93	<2	69	<5	<5	160	<2	11	6	6	7	581	.72	.18	1.69	.78	.12	.57	488
R0308280	Z08819	22	4	39	.4	<2	18	<1	25	12	6.72	<2	25	<5	<5	188	<2	<2	5	8	8	528	.55	.11	.9	1.92	.14	.03	501
R0308281	Z08820	29	5	40	.5	<2	39	<1	35	14	8.71	<2	29	<5	<5	180	<2	<2	3	6	2	463	.53	.09	.93	1.08	.09	.16	556
R0308282	Z08821	58	7	64	1.0	<2	24	<1	60	20	11.93	<2	32	<5	<5	220	<2	25	3	5	7	923	1.23	.21	1.85	.52	.07	.58	510
R0308283	Z08822	47	<4	28	<.4	<2	38	<1	6	11	1.16	<2	81	<5	<5	21	<2	<2	19	<2	14	129	.33	.06	.67	.57	.07	.23	341
R0308284	Z08823	1706	10	76	13.5	<2	264	2	40	78	3.81	<2	305	156	<5	65	<2	<2	13	2	9	304	1.26	.16	2.31	.5	.07	1.08	471
R0308285	Z08824	53	<4	34	<.4	<2	8	<1	20	59	2.73	<2	126	<5	<5	61	<2	<2	20	3	2	387	1.35	.13	1.59	1.03	.08	.05	181
R0308286	Z08825	51	6	60	<.4	81	15	<1	50	110	5.35	<2	252	<5	<5	119	<2	<2	17	4	11	701	2.64	.16	2.59	1.22	.04	.05	739
R0308287	Z08826	52	<4	50	<.4	<2	16	<1	39	93	4	<2	206	<5	<5	95	2	<2	15	2	6	491	2.12	.18	2.32	.75	.05	.07	242
R0308288	Z08827	67	<4	62	<.4	2	6	<1	28	69	3.9	<2	164	<5	<5	71	2	<2	26	4	13	507	2.05	.17	2.41	1.01	.08	.02	1264
R0308289	Z08852	16	<4	43	<.4	<2	<5	<1	18	2	4.95	<2	51	<5	<5	8	<2	<2	2	14	8	348	.56	.08	1.55	1.15	.16	.03	1266

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
R0308290	Z08853	102	11	45	<.4	<2	36	<1	4	8	14.06	2	33	<5	<5	35	<2	<2	35	<2	14	934	1.4	.03	3.08	.58	.08	.25	400
R0308291	Z08855	37	<4	31	<.4	<2	10	<1	24	86	3.08	<2	97	<5	<5	41	2	<2	9	<2	<2	193	1.12	.13	1.26	.32	.05	.05	99
R0308292	Z08856	169	4	22	<.4	<2	37	<1	32	84	3.46	<2	111	<5	<5	39	<2	<2	5	<2	2	148	.77	.1	1.07	.33	.06	.2	155
R0308293	Z08857	922	3306	13	6.9	4	32	<1	9	14	1.67	<2	173	21	<5	18	<2	<2	4	<2	<2	45	.13	.03	.29	.13	.03	.13	82
R0308294	Z08858	638	2154	38	7.7	<2	121	<1	13	34	4.69	<2	194	31	<5	70	3	<2	7	<2	2	190	.58	.11	1.01	.38	.04	.63	110
R0308295	Z08859	11	5	47	<.4	<2	18	<1	6	20	1.41	<2	64	<5	<5	21	2	<2	14	4	15	214	.53	.06	.78	.28	.08	.04	589
R0308296	Z08901	135	14	52	<.4	<2	11	<1	3	6	.92	<2	93	<5	<5	11	3	<2	<2	<2	4	8	.09	.03	.24	.06	.1	.01	237
R0308297	Z08902	134	4	41	<.4	2	6	<1	4	8	1	<2	90	<5	<5	15	3	<2	8	<2	9	67	.25	.03	.54	.28	.11	.02	187
R0308298	Z08903	32	<4	21	<.4	2	<5	<1	4	8	.7	<2	70	<5	<5	10	<2	<2	7	<2	<2	53	.21	.03	.4	.17	.1	.01	266
R0308299	Z08904	51	<4	39	<.4	<2	8	<1	18	61	3.19	<2	107	<5	<5	52	3	<2	8	<2	8	321	1.05	.05	1.87	.72	.13	.04	298
R0308300	Z08905	18	<4	34	<.4	<2	132	<1	4	8	1.48	<2	49	<5	<5	23	<2	<2	50	<2	5	216	.43	.06	.73	.95	.1	.31	287
R0308301	Z08906	17	5	60	.5	<2	32	<1	7	18	1.77	<2	65	<5	<5	32	<2	<2	10	2	17	210	.62	.08	1.01	.37	.08	.11	463
R0308302	Z08907	9	<4	7	<.4	<2	37	<1	<1	2	.2	<2	65	<5	<5	<2	<2	<2	<2	2	<2	18	.01	<.01	.2	.04	.1	.09	161
R0308303	Z08908	102	<4	74	<.4	<2	<5	<1	8	10	2.87	<2	63	<5	<5	12	2	<2	2	<2	4	118	1.39	.01	1.54	.04	.04	.01	189
R0308304	Z08909	38	<4	32	<.4	<2	109	<1	33	27	7	<2	49	<5	<5	306	<2	37	2	2	<2	92	.89	.17	2.68	.1	.04	.94	547
R0308305	Z08910	66	<4	33	<.4	<2	14	<1	30	27	4.49	<2	26	<5	<5	190	4	<2	4	10	6	175	.32	.08	.92	.59	.14	.05	734
R0308306	Z08911	91	<4	42	<.4	<2	6	<1	19	45	3.58	<2	22	<5	<5	222	2	<2	3	4	3	257	.7	.09	1.31	1.05	.19	.04	271
R0308307	Z08912	27	4	7	.7	<2	73	<1	1	6	6.47	<2	61	<5	<5	88	3	<2	6	5	3	108	.1	.46	.33	.13	.07	.22	434
R0308308	Z08913	25	5	37	<.4	<2	14	<1	18	5	6.65	2	35	<5	<5	101	<2	<2	3	10	6	370	.4	.09	1.11	.8	.15	.07	687
R0308309	Z08914	65	8	52	<.4	<2	6	<1	49	52	10.27	<2	30	<5	<5	384	<2	<2	6	7	5	291	.37	.09	.74	.37	.12	.07	535
R0308310	Z08916	135	10	76	<.4	<2	26	<1	28	19	12.22	3	72	<5	6	127	<2	<2	6	8	5	205	.95	.16	1.95	.3	.05	.2	1524
R0308311	Z08917	36	9	42	<.4	<2	178	<1	31	53	10.26	<2	66	<5	<5	418	<2	<2	6	2	<2	111	1.06	.17	1.86	.04	.07	1.14	528
R0308312	Z08918	76	<4	29	<.4	<2	39	<1	31	32	5.64	4	30	<5	<5	258	<2	<2	3	9	4	138	.31	.07	.85	.49	.12	.1	777
R0308313	Z08919	10	<4	34	<.4	3	65	<1	5	15	1.58	<2	64	<5	<5	26	2	<2	18	4	18	228	.5	.1	1.01	.55	.09	.51	403
R0308314	Z08920	62	4	39	<.4	<2	7	<1	28	10	6.71	<2	36	<5	<5	131	<2	<2	2	10	6	369	.33	.08	1.13	.9	.15	.04	679
R0308315	Z08921	18	<4	18	<.4	<2	12	<1	10	45	1.48	<2	133	<5	<5	28	<2	<2	10	<2	10	137	.75	.05	1.01	.67	.1	.02	515
R0308316	Z08922	28	<4	12	<.4	<2	6	<1	9	24	1.36	<2	86	<5	<5	57	<2	<2	68	3	4	141	.38	.07	2.52	1.96	.2	.01	279
R0308317	Z08923	6	<4	29	<.4	3	70	<1	4	13	1.47	<2	59	<5	<5	21	<2	<2	14	4	26	245	.41	.11	.88	.57	.08	.55	375
R0308318	Z08924	144	<4	10	<.4	<2	15	<1	15	91	1.76	<2	218	<5	<5	31	2	<2	5	<2	<2	92	.81	.03	.75	.77	.13	.05	166
R0308319	Z08925	104	4	159	<.4	<2	382	<1	43	62	8.16	<2	209	<5	6	256	2	<2	54	2	3	506	2.15	.56	5.42	1.06	.14	2.23	574
R0308320	Z08926	136	<4	37	<.4	<2	5	<1	25	34	4.4	<2	35	<5	<5	72	<2	<2	19	5	5	289	.68	.1	1.25	1.07	.17	.06	433
R0308321	Z08927	11	6	71	<.4	3	24	<1	8	32	1.84	<2	70	<5	5	26	<2	<2	45	4	30	259	.93	.05	1.11	.62	.07	.09	794
R0308322	Z08928	28	6	89	<.4	<2	11	<1	19	52	4.18	<2	114	<5	<5	47	<2	<2	49	6	29	479	2.05	.08	2.13	.97	.05	.04	2944
R0308323	Z08929	229	<4	4	<.4	<2	10	<1	16	35	1.22	<2	38	<5	<5	14	<2	<2	10	<2	3	38	.21	.02	.75	.54	.11	.02	226
R0308324	Z08930	22	<4	24	<.4	4	71	<1	4	10	1.61	<2	66	<5	<5	26	<2	<2	6	2	6	114	.52	.1	1.32	.33	.13	.53	286
R0308325	Z08931	133	<4	15	<.4	<2	5	<1	15	30	1.85	<2	54	<5	<5	30	<2	<2	14	3	<2	122	.47	.04	1.07	.8	.13	.03	314

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
R0308326	Z08932	10	<4	23	<.4	68	35	<1	5	13	1.77	<2	47	<5	<5	19	<2	<2	5	2	9	172	.42	.07	.92	.32	.07	.31	305
R0308327	Z08933	62	5	83	<.4	<2	17	<1	16	36	7.49	<2	115	<5	<5	53	<2	<2	<2	6	<2	353	1.71	.08	2.96	.48	.08	.05	1117
R0308328	Z08934	6	<4	37	<.4	3	27	<1	6	10	1.22	<2	58	<5	<5	14	2	<2	11	4	16	226	.32	.04	.99	1.2	.07	.11	296
R0308329	Z08951	44	<4	1	<.4	<2	<5	<1	18	7	2.38	<2	136	<5	<5	2	<2	<2	<2	<2	<2	30	<.01	<.01	.02	.09	.02	<.01	<10
R0308330	Z08952	72	4	89	<.4	<2	<5	<1	33	4	7.26	<2	32	<5	<5	62	2	<2	4	5	4	552	.82	.11	2	.55	.1	.01	538
R0308331	Z08953	150	<4	31	<.4	<2	13	<1	23	40	3.19	<2	69	<5	<5	73	<2	<2	60	6	16	548	.89	.16	1.17	3.18	.11	.07	743
R0308332	Z08954	255	<4	24	<.4	<2	8	<1	19	6	6.14	<2	61	<5	<5	27	2	<2	42	6	3	228	.26	.22	.83	.92	.06	.04	911
R0308333	Z08955	278	<4	103	<.4	<2	12	<1	56	80	8.32	<2	23	<5	<5	262	<2	<2	8	<2	4	420	1.45	.27	2.46	1.19	.11	.07	133
R0308334	Z08956	94	9	30	1.6	<2	7	<1	47	34	8.71	<2	87	<5	<5	114	<2	<2	4	2	8	83	.15	.29	.57	.61	.03	.02	102
R0308335	Z08957	124	<4	25	<.4	<2	13	<1	14	29	4	<2	41	<5	<5	41	2	<2	96	2	7	1094	.56	.15	1.34	.88	.09	.1	127
R0308336	Z08958	138	<4	42	<.4	<2	10	<1	16	44	4.05	8	47	<5	<5	114	2	<2	17	5	<2	739	1.04	.2	2.27	1.89	.24	.08	245
R0308337	Z08959	46	<4	47	<.4	<2	25	<1	16	25	4.5	<2	54	<5	<5	110	2	<2	15	8	<2	417	.91	.23	1.59	1.25	.2	.06	511
R0308338	Z09001	245	5	19	<.4	<2	6	<1	39	99	6.16	<2	132	<5	<5	44	<2	254	9	2	<2	163	.81	.13	1.37	.33	.03	.03	118
R0308339	Z09002	88	38	99	<.4	<2	18	<1	23	75	2.6	<2	92	<5	<5	48	3	<2	10	2	5	233	1	.12	1.5	.75	.07	.11	181
R0308340	Z09003	21	17	75	.4	<2	33	<1	37	58	3.34	<2	88	<5	<5	13	2	<2	18	<2	5	288	.73	.05	1.47	.23	.05	.23	36
R0308341	Z09004	4	<4	2	<.4	<2	<5	<1	<1	7	.3	<2	168	<5	<5	3	<2	<2	<2	<2	<2	17	.02	<.01	.06	.04	.03	<.01	<10
R0308342	Z09006	352	<4	127	<.4	<2	43	<1	32	42	8.69	<2	143	<5	<5	192	4	<2	20	10	5	543	1.18	.2	3.48	1.43	.18	.16	580
R0308343	Z09007	31	<4	15	<.4	<2	56	<1	6	7	2.17	<2	69	<5	<5	19	<2	<2	10	2	5	85	.57	.06	1.05	.34	.08	.2	369
R0308344	Z09008	22	<4	21	<.4	<2	12	<1	14	47	2.1	<2	96	<5	<5	59	2	<2	15	3	5	220	1.11	.12	1.75	1.47	.12	.08	371
R0308345	Z09009	4	<4	40	<.4	<2	37	<1	5	10	1.12	<2	67	<5	<5	15	2	<2	7	2	12	271	.19	.06	.76	.42	.09	.18	285
R0308346	Z09010	11	<4	16	<.4	<2	7	<1	7	7	2.09	<2	110	<5	<5	67	<2	<2	100	5	3	359	.26	.18	.99	2.53	.09	.02	284
R0308347	Z09011	72	<4	26	<.4	<2	5	<1	16	43	3.61	<2	35	<5	<5	190	<2	<2	5	5	<2	376	.94	.17	1.52	1.59	.25	.06	231
R0308348	Z09012	98	<4	45	<.4	<2	22	<1	35	114	4.17	<2	143	<5	<5	84	3	<2	6	<2	<2	396	1.91	.21	2.79	2.27	.05	.28	161
R0308349	Z09013	34	41	54	<.4	2	7	<1	12	28	3.28	<2	124	<5	<5	45	3	<2	9	2	6	317	1.21	.11	2.15	.92	.06	.06	354
R0308350	Z09014	251	197	5795	5.5	17	12	26	10	59	4.22	35	56	<5	<5	7	2	<2	2	2	4	207	.43	.01	1.29	.36	.04	.15	294
R0308351	Z09015	238	78	306	5.3	3	33	<1	42	86	8.48	<2	83	<5	<5	296	2	<2	10	5	2	693	1.73	.29	3.22	.81	.08	.65	598
R0308352	Z09016	138	<4	17	.4	<2	11	<1	36	69	4.19	<2	114	<5	<5	46	<2	<2	5	2	<2	148	.64	.17	1.08	.43	.06	.06	136
R0308353	Z09017	35	5	7	<.4	4	<5	<1	4	10	.89	<2	188	<5	<5	4	<2	<2	<2	<2	<2	15	.02	<.01	.06	.03	.03	.01	28
R0308354	Z09018	17	<4	38	<.4	<2	33	<1	11	73	2.3	8	120	<5	<5	46	2	<2	92	6	17	222	1.13	.15	1.2	.75	.07	.08	1784
R0308355	Z09019	23	<4	28	<.4	<2	7	<1	17	77	2.83	<2	103	<5	<5	58	3	<2	11	<2	6	296	1.33	.19	1.74	.92	.09	.11	171
R0308356	Z09020	37	<4	40	<.4	<2	108	<1	12	39	2.41	<2	151	<5	<5	67	<2	<2	17	2	14	224	.35	.14	.85	.3	.09	.4	700
R0308357	Z09021	59	4	11	<.4	139	61	<1	36	95	4.94	2	150	<5	<5	81	3	2	40	3	6	697	1.13	.14	1.16	4.61	.06	.48	112
R0308358	Z09022	98	7	18	.9	300	44	<1	44	165	7.42	<2	233	<5	6	166	<2	6	9	3	3	809	2.39	.19	3.53	4.45	.03	.57	126
R0308359	Z09023	13	<4	75	<.4	3	17	<1	16	13	4.38	<2	42	<5	<5	60	2	<2	84	3	20	628	2.19	.12	2.74	.96	.06	.05	2462

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised
If requested analyses are not shown ,results are to follow

ANALYTICAL METHODS

ICP PACKAGE :0.5 gram sample digested in hot reverse aqua regia (soil,silt) or hot Aqua Regia(rock

LIZAR-CEX

Job V 03-0396R

8756-9095(SERIES)

Report date 12 JAN 2004

LAB NO	FIELD NUMBER	Au ppb	Wt Au gram	Hg ppb
R0309923	Z08935	<10	10	<10
R0309924	Z08936	10	10	<10
R0309925	Z08937	99	10	<10
R0309926	Z08938	<10	10	<10
R0309927	Z08939	<10	10	<10
R0309928	Z08940	11	10	<10
R0309929	Z08941	10	10	<10
R0309930	Z08942	<10	10	<10
R0309931	Z08943	13	10	<10
R0309932	Z08944	<10	10	<10
R0309933	Z08945	<10	10	<10
R0309934	Z08946	<10	10	<10
R0309935	Z08947	32	10	<10
R0309936	Z08948	<10	10	<10
R0309937	Z08949	<10	10	<10
R0309938	Z08950	<10	10	<10
R0309939	Z09101	11	10	<10
R0309940	Z09102	11	10	<10
R0309941	Z09103	<10	10	<10
R0309942	Z09104	31	10	<10
R0309943	Z09105	21	10	<10
R0309944	Z09106	<10	10	<10
R0309945	Z09107	<10	10	<10
R0309946	Z09108	<10	10	<10
R0309947	Z08861	49	10	<10
R0309948	Z08862	11	10	<10
R0309949	Z08863	29	10	<10
R0309950	Z08864	<10	10	<10
R0309951	Z08865	91	10	<10
R0309952	Z08866	12	10	<10
R0309953	Z08867	13	10	<10
R0309954	Z08868	17	10	<10
R0309955	Z08869	248	10	<10
R0309956	Z08870	<10	10	<10
R0309957	Z08871	1380	10	<10
R0309958	Z08872	41	10	<10
R0309959	Z08873	211	10	<10
R0309960	Z08874	10	10	<10
R0309961	Z09024	13	10	<10
R0309962	Z09025	19	10	<10
R0309963	Z09026	178	10	<10
R0309964	Z09027	<10	10	<10
R0309965	Z09028	<10	10	<10
R0309966	Z08828	<10	10	<10
R0309967	Z08829	10	10	<10
R0309968	Z08830	73	10	<10
R0309969	Z08831	12	10	<10
R0309970	Z08832	16	10	<10
R0309971	Z08833	<10	10	<10
R0309972	Z08834	12	10	<10
R0309973	Z08835	<10	10	<10

LAB NO	FIELD NUMBER	Au ppb	Wt Au gram	Hg ppb
R0309974	Z08836	<10	10	<10
R0309975	Z08837	<10	10	<10
R0309976	Z08838	<10	10	<10
R0309977	Z08839	10	10	<10
R0309978	Z08840	11	10	<10
R0309979	Z08841	10	10	<10
R0309980	Z08842	<10	10	<10
R0309981	Z08843	11	10	<10
R0309982	Z08844	<10	10	<10
R0309983	Z08845	<10	10	<10
R0309984	Z08846	13	10	<10
R0309985	Z08847	<10	10	<10
R0309986	Z08848	11	10	<10
R0309987	Z08849	<10	10	<10
R0309988	Z08850	<10	10	<10
R0309989	Z09051	<10	10	<10
R0309990	Z09052	<10	10	<10
R0309991	Z09053	15	10	<10
R0309992	Z09054	<10	10	<10
R0309993	Z09055	<10	10	<10
R0309994	Z09056	<10	10	<10
R0309995	Z09057	<10	10	<10
R0309996	Z09058	10	10	<10
R0309997	Z09059	10	10	<10
R0309998	Z09060	11	10	<10
R0309999	Z09061	<10	10	<10
R0310000	Z09062	<10	10	<10
R0310001	Z09063	10	10	<10
R0310002	Z09064	<10	10	<10
R0310003	Z09065	<10	10	<10
R0310004	Z09066	<10	10	<10
R0310005	Z09067	<10	10	<10
R0310006	Z09068	<10	10	<10
R0310007	Z09069	<10	10	<10
R0310008	Z09070	<10	10	<10
R0310009	Z09071	<10	10	<10
R0310010	Z09072	<10	10	<10
R0310011	Z09073	10	10	<10
R0310012	Z09074	10	10	<10
R0310013	Z09075	11	10	<10
R0310014	Z09076	12	10	<10
R0310015	Z09077	<10	10	<10
R0310016	Z09078	12	10	<10
R0310017	Z09079	<10	10	<10
R0310018	Z09080	11	10	<10
R0310019	Z09081	<10	10	<10
R0310020	Z09082	11	10	<10
R0310021	Z09083	<10	10	<10
R0310022	Z09084	<10	10	<10
R0310023	Z09085	<10	10	<10
R0310024	Z09086	<10	10	<10
R0310025	Z09087	<10	10	<10
R0310026	Z09088	<10	10	<10
R0310027	Z09089	10	10	<10

LAB NO	FIELD NUMBER	Au ppb	Wt Au gram	Hg ppb
R0310028	Z09090	<10	10	<10
R0310029	Z09091	12	10	<10
R0310030	Z09092	<10	10	<10
R0310031	Z09093	10	10	<10
R0310032	Z09094	i	10	<10
R0310033	Z09095	<10	10	<10
R0310034	Z08960	21	10	<10
R0310035	Z08961	52	10	<10
R0310036	Z08962	21	10	<10
R0310037	Z08963	162	10	<10
R0310038	Z08964	10	10	<10
R0310039	Z08965	10	10	<10
R0310040	Z08966	<10	10	<10
R0310041	Z08967	12	10	<10
R0310042	Z08968	12	10	<10
R0310043	Z08969	<10	10	<10
R0310044	Z08970	<10	10	<10
R0310045	Z08971	<10	10	<10
R0310046	Z08972	<10	10	<10
R0310047	Z08973	<10	10	<10
R0310048	Z08756	<10	10	<10
R0310049	Z08757	<10	10	<10
R0310050	Z08758	<10	10	<10
R0310051	Z08759	<10	10	<10
R0310052	Z08760	10	10	<10
R0310053	Z08761	<10	10	<10
R0310054	Z08762	<10	10	<10
R0310055	Z08763	33	10	<10
R0310056	Z08764	<10	10	<10
R0310057	Z08765	<10	10	<10
R0310058	Z08766	19	10	<10
R0310059	Z08767	<10	10	<10
R0310060	Z08768	<10	10	<10
R0310061	Z08769	<10	10	<10
R0310062	Z08770	<10	10	<10
R0310063	Z08771	<10	10	<10
R0310064	Z08772	<10	10	<10
R0310065	Z08773	<10	10	<10
R0310066	Z08774	<10	10	<10
R0310067	Z08775	<10	10	<10
R0310068	Z08776	10	10	<10
R0310069	Z08777	<10	10	<10
R0310070	Z08778	<10	10	<10
R0310071	Z08779	<10	10	<10
R0310072	Z08780	<10	10	<10
R0310073	Z08781	<10	10	<10
R0310074	Z08782	10	10	<10
R0310075	Z08783	<10	10	<10
R0310076	Z08784	10	10	<10

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised
If requested analyses are not shown ,results are to follow

ANALYTICAL METHODS

Au Aqua regia decomposition / solvent extraction / AAS
Wt Au The weight of sample taken to analyse for gold (geochem)

Hg Flameless AAS

LIZAR-CEX

Job V 03-0396R

8756-9095(SERIES)

Report date 12 JAN 2004

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
R0309923	Z08935	44	14	102	<.4	<2	30	<1	11	36	6.77	<2	149	<5	<5	10	<2	<2	15	<2	4	239	.22	.06	.71	.36	.08	.15	334
R0309924	Z08936	27	6	147	<.4	<2	281	<1	21	64	3.57	<2	242	<5	<5	76	2	<2	41	3	7	321	1.35	.2	3.16	.83	.18	1.15	437
R0309925	Z08937	57	4	84	<.4	<2	86	<1	24	19	4.95	<2	179	<5	<5	97	<2	<2	18	3	11	364	1.44	.17	2.98	.21	.07	1.09	924
R0309926	Z08938	148	<4	76	<.4	<2	32	<1	39	36	7.95	<2	69	<5	<5	249	<2	<2	8	15	2	946	.92	.36	2.78	2.66	.41	.16	495
R0309927	Z08939	11	4	31	<.4	<2	58	<1	5	12	2.05	<2	182	<5	<5	17	<2	<2	22	2	11	371	.91	.1	2.29	.52	.18	.63	489
R0309928	Z08940	82	4	9	<.4	<2	70	<1	25	53	7.83	<2	232	<5	<5	226	<2	<2	3	<2	2	278	.85	.2	1.59	.09	.07	.33	212
R0309929	Z08941	73	9	33	<.4	<2	19	<1	15	11	2.28	<2	201	<5	<5	<2	4	<2	55	4	14	238	.92	.06	4.53	1.82	.4	.69	629
R0309930	Z08942	105	6	194	<.4	12	13	<1	33	45	4.96	<2	151	<5	<5	<2	<2	<2	6	<2	3	138	.27	.03	1.25	.37	.04	.29	505
R0309931	Z08943	69	6	15	<.4	<2	32	<1	14	17	1.39	<2	98	<5	<5	<2	<2	<2	28	<2	9	75	.22	<.01	.85	.28	.13	.17	574
R0309932	Z08944	11	<4	10	<.4	<2	44	<1	<1	3	.98	<2	123	<5	<5	7	<2	<2	17	<2	18	35	.14	<.01	.66	.09	.07	.24	743
R0309933	Z08945	40	10	77	<.4	<2	134	<1	25	16	5.28	<2	120	<5	<5	157	2	<2	84	14	11	776	2.28	.23	4.35	2.16	.11	.27	1816
R0309934	Z08946	137	<4	19	<.4	<2	24	<1	11	14	3.42	<2	94	<5	<5	<2	4	<2	35	5	20	355	1.26	.06	3.97	1.51	.18	.98	281
R0309935	Z08947	80	<4	58	<.4	<2	8	<1	26	31	6.42	<2	78	<5	<5	214	<2	<2	3	16	<2	601	1.12	.18	2.03	1.81	.33	.07	453
R0309936	Z08948	169	<4	68	<.4	<2	48	<1	49	91	8.22	<2	131	<5	<5	273	<2	<2	6	13	<2	921	1.17	.22	4.02	2.33	.35	.14	557
R0309937	Z08949	14	12	170	<.4	<2	35	<1	9	18	3.03	<2	146	<5	<5	7	<2	<2	10	2	15	573	.67	.06	2.25	.97	.08	.2	359
R0309938	Z08950	44	<4	33	<.4	<2	18	<1	5	19	4.91	<2	260	5	<5	8	<2	<2	24	13	10	934	.65	.04	1.66	1.26	.13	.15	277
R0309939	Z09101	74	<4	43	<.4	<2	55	<1	17	36	8.08	<2	213	5	<5	35	<2	<2	10	10	4	748	.93	.11	1.7	.83	.12	.25	672
R0309940	Z09102	8	<4	9	<.4	<2	<5	<1	1	4	1.11	<2	417	<5	<5	4	<2	<2	<2	<2	<2	70	.06	.02	.15	.12	.04	.01	109
R0309941	Z09103	43	<4	28	<.4	<2	27	<1	6	15	3.23	158	178	<5	<5	59	3	<2	17	6	5	543	.63	.23	1.17	1.53	.13	.11	313
R0309942	Z09104	665	<4	44	<.4	<2	52	<1	20	42	4.57	<2	140	<5	<5	60	<2	<2	19	8	<2	648	1.19	.15	2.37	2.51	.22	.15	361
R0309943	Z09105	946	<4	14	<.4	<2	10	<1	30	26	6.37	<2	117	<5	<5	185	3	<2	39	9	<2	449	.65	.72	2	2.23	.1	.02	480
R0309944	Z09106	24	<4	10	<.4	<2	10	<1	14	29	1.98	<2	99	<5	<5	52	2	<2	14	6	<2	167	.46	.26	.64	1.01	.12	.06	610
R0309945	Z09107	188	<4	58	<.4	<2	12	<1	34	30	6.99	<2	68	<5	<5	302	2	<2	5	14	4	708	1.52	.23	2.73	2.39	.41	.11	547
R0309946	Z09108	64	<4	50	<.4	<2	10	<1	31	18	7.78	<2	78	<5	<5	225	<2	<2	4	18	<2	859	.97	.24	2.76	2.49	.4	.09	567
R0309947	Z08861	95	68	224	.6	<2	227	2	35	88	4.38	<2	359	<5	<5	77	3	<2	36	4	<2	465	1.66	.19	5.84	3.13	.42	.64	159
R0309948	Z08862	124	<4	69	<.4	<2	50	<1	31	88	4.58	<2	206	<5	<5	62	2	<2	16	3	<2	377	1.88	.24	2.81	1.26	.13	.08	183
R0309949	Z08863	50	8	106	.8	<2	21	<1	25	12	10.56	29	69	<5	<5	81	<2	<2	8	36	<2	1033	1.17	.3	2.74	1.07	.07	.28	1621
R0309950	Z08864	101	5	70	<.4	<2	<5	<1	56	35	9.44	<2	36	<5	<5	511	3	3	3	5	<2	543	1.5	.27	2.48	1.75	.27	.03	330
R0309951	Z08865	154	15	60	1.8	<2	8	<1	95	445	10.57	<2	144	<5	<5	84	<2	5	14	3	<2	143	.64	.05	1.08	.1	.07	.07	136
R0309952	Z08866	298	5	80	<.4	<2	11	<1	44	71	7.6	<2	34	<5	<5	273	<2	2	17	9	<2	654	1.52	.29	2.75	1.28	.16	.06	456
R0309953	Z08867	99	5	74	.4	<2	18	<1	44	55	7.21	<2	42	<5	<5	368	<2	<2	12	8	<2	612	1.25	.28	2.32	1.94	.25	.1	419
R0309954	Z08868	48	<4	58	<.4	<2	32	<1	21	7	6.52	<2	35	<5	<5	46	<2	<2	16	25	4	844	.63	.29	2.12	2.18	.21	.11	949
R0309955	Z08869	22	12	16	2.1	36	17	<1	38	21	8.29	<2	139	<5	<5	84	<2	2	4	7	2	499	.6	.11	1.01	.59	.06	.26	348

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
R0309956	Z08870	9	<4	24	<.4	<2	20	<1	9	31	2.11	<2	313	<5	<5	35	<2	<2	29	5	30	277	.66	.17	.78	.73	.09	.04	625
R0309957	Z08871	828	700	766	8.7	217	7	12	80	68	12.39	2	128	6	<5	46	<2	<2	9	<2	3	10	.03	.06	.4	.04	.05	.24	120
R0309958	Z08872	461	38	347	.9	<2	36	2	83	172	10.89	<2	120	<5	<5	545	<2	<2	15	3	<2	631	1.91	.34	3.66	1.76	.19	.07	192
R0309959	Z08873	194	8	25	2.5	23	43	<1	4	9	1.55	132	140	5	<5	<2	<2	<2	11	<2	<2	45	.13	.01	.61	.08	.05	.28	258
R0309960	Z08874	145	<4	66	<.4	<2	15	<1	25	85	4.08	<2	212	<5	<5	57	2	<2	36	8	16	465	1.57	.23	2.03	1.26	.11	.06	1525
R0309961	Z09024	31	<4	116	<.4	<2	157	<1	18	71	7.46	<2	129	<5	<5	54	<2	<2	11	3	10	1472	1.32	.21	2.92	.91	.13	1.33	1028
R0309962	Z09025	88	38	155	.8	<2	42	<1	8	19	2.79	<2	108	<5	<5	3	<2	<2	17	<2	2	383	.6	.02	1.41	.41	.08	.38	359
R0309963	Z09026	99	5	101	1.4	14	29	<1	49	46	5.62	<2	146	<5	<5	122	<2	<2	3	2	<2	170	.52	.05	.7	.11	.08	.26	265
R0309964	Z09027	124	<4	26	<.4	<2	29	<1	14	37	2.13	<2	63	<5	<5	26	<2	2	98	6	<2	229	.76	.14	3.82	2.74	.33	.09	497
R0309965	Z09028	44	<4	92	<.4	<2	504	<1	9	11	3.64	<2	91	<5	<5	60	2	<2	50	5	4	493	1.19	.25	2.43	.43	.12	1.25	1078
R0309966	Z08828	10	<4	18	<.4	<2	47	<1	5	9	1.95	<2	115	<5	<5	10	<2	<2	9	<2	<2	103	.49	.05	1.12	.16	.07	.22	310
R0309967	Z08829	8	<4	11	<.4	<2	43	<1	6	7	1.81	<2	78	<5	<5	<2	<2	<2	10	<2	4	38	.29	.02	.89	.06	.07	.2	304
R0309968	Z08830	57	29	70	1.8	10	63	<1	6	10	2.4	<2	116	6	<5	9	<2	<2	17	<2	<2	96	.22	.04	.73	.12	.06	.34	274
R0309969	Z08831	42	6	39	.9	4	46	<1	9	11	1.87	57	103	<5	<5	14	<2	<2	10	2	<2	171	.42	.08	.89	.18	.07	.33	252
R0309970	Z08832	89	4	37	.4	<2	17	<1	18	51	2.09	<2	116	<5	<5	33	3	<2	12	2	<2	223	.87	.14	1.3	.91	.12	.1	169
R0309971	Z08833	77	4	27	<.4	<2	11	<1	32	63	2.82	<2	108	<5	<5	39	3	<2	23	3	<2	263	.98	.18	1.59	1.22	.13	.07	154
R0309972	Z08834	66	<4	31	<.4	<2	14	<1	20	71	3.56	<2	129	<5	<5	50	<2	<2	24	2	<2	292	1.2	.22	1.67	.97	.07	.07	160
R0309973	Z08835	42	<4	24	<.4	<2	19	<1	15	53	2.25	<2	99	<5	<5	66	<2	<2	9	4	<2	312	1.14	.22	1.21	1.37	.13	.15	159
R0309974	Z08836	61	5	74	<.4	<2	22	<1	24	107	2.93	<2	227	<5	<5	64	2	<2	46	6	16	346	1.61	.28	1.57	1.56	.11	.21	1321
R0309975	Z08837	52	26	379	.5	<2	16	2	102	54	10.3	<2	110	6	<5	34	3	<2	9	3	5	684	.79	.1	2.11	.4	.06	.35	447
R0309976	Z08838	45	15	186	.4	<2	23	<1	123	48	13.22	3	86	9	<5	11	2	<2	11	3	9	410	.69	.07	1.6	.38	.04	.34	568
R0309977	Z08839	17	6	40	<.4	<2	27	<1	18	24	4.48	<2	103	<5	<5	17	<2	<2	7	3	15	499	.97	.11	2.48	.82	.05	.44	487
R0309978	Z08840	42	12	205	.5	<2	37	<1	56	52	9.31	<2	169	<5	5	52	2	<2	21	4	11	792	.99	.13	2.8	.56	.08	.71	442
R0309979	Z08841	28	12	208	.5	<2	41	<1	39	37	7.95	<2	143	<5	<5	31	<2	<2	39	4	12	731	1.11	.12	2.57	.69	.09	.7	727
R0309980	Z08842	15	<4	53	<.4	<2	20	<1	26	24	5.31	<2	132	<5	<5	7	<2	<2	13	3	10	394	.82	.07	2.68	.5	.07	.61	472
R0309981	Z08843	18	5	87	<.4	<2	46	<1	18	20	4.48	<2	111	<5	<5	25	<2	<2	33	5	22	553	1.08	.15	2.9	1.24	.1	.52	800
R0309982	Z08844	45	14	54	1.0	<2	18	<1	18	49	9.02	<2	91	<5	<5	15	<2	<2	9	3	15	415	.88	.09	1.82	.41	.08	.28	388
R0309983	Z08845	38	13	39	.6	<2	15	<1	41	46	10.21	<2	79	6	<5	3	<2	<2	14	3	13	241	.69	.05	1.67	.39	.09	.33	457
R0309984	Z08846	61	15	22	.7	<2	20	<1	20	59	11.09	<2	108	<5	<5	2	<2	<2	31	3	14	326	.72	.06	2.81	1.01	.16	.41	487
R0309985	Z08847	35	7	28	.6	<2	18	<1	30	39	6.55	<2	98	5	<5	<2	<2	<2	17	3	15	336	.73	.07	2.32	.98	.1	.31	511
R0309986	Z08848	19	7	21	<.4	<2	19	<1	26	19	4.05	19	104	<5	<5	<2	<2	<2	30	4	19	324	.86	.06	2.69	1.14	.15	.41	548
R0309987	Z08849	27	5	26	<.4	<2	24	<1	18	25	3.77	<2	113	<5	<5	<2	<2	<2	42	3	17	295	.81	.07	3.19	1.36	.16	.51	497
R0309988	Z08850	20	<4	21	<.4	<2	25	<1	23	22	2.59	<2	91	<5	<5	5	2	<2	26	2	12	310	.88	.09	2.74	1.25	.07	.49	451
R0309989	Z09051	18	5	27	<.4	<2	28	<1	19	27	3.61	<2	121	<5	<5	<2	<2	<2	26	3	17	307	.98	.09	3.4	1.31	.08	.52	553
R0309990	Z09052	29	7	39	<.4	<2	44	<1	18	36	3.57	4	109	<5	<5	<2	2	<2	46	3	20	399	.78	.08	3.58	1.63	.12	.59	559
R0309991	Z09053	37	4	64	<.4	<2	52	<1	17	45	2.86	<2	101	<5	<5	13	<2	2	73	3	11	378	.92	.12	3.58	1.45	.21	.62	489

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
R0309992	Z09054	33	<4	34	<.4	<2	37	<1	25	32	2.64	<2	70	<5	<5	<2	<2	<2	58	2	18	308	.61	.09	3.32	1.16	.26	.6	530
R0309993	Z09055	72	4	26	<.4	<2	44	<1	22	25	2.93	<2	77	<5	<5	<2	<2	<2	64	2	23	370	.7	.11	3.85	1.6	.28	.6	564
R0309994	Z09056	56	<4	25	<.4	<2	40	<1	17	22	2.54	<2	75	<5	<5	<2	<2	<2	61	3	13	287	.72	.1	3.21	1.26	.27	.61	465
R0309995	Z09057	79	<4	19	<.4	<2	45	<1	26	24	2.16	<2	93	<5	<5	3	2	<2	69	3	22	349	.79	.09	3.33	1.37	.26	.57	525
R0309996	Z09058	156	29	572	.6	<2	9	<1	351	56	20.62	8	65	18	<5	9	<2	<2	20	3	11	751	.55	.05	1.47	.37	.06	.21	399
R0309997	Z09059	144	29	389	.5	55	8	1	137	50	19.12	3	84	19	<5	4	<2	<2	7	2	7	783	.32	.03	1.15	.13	.04	.27	386
R0309998	Z09060	206	27	1222	.6	57	9	4	114	56	16.87	2	97	11	<5	6	<2	<2	6	2	9	901	.46	.02	1.34	.21	.05	.31	402
R0309999	Z09061	165	13	645	.4	4	24	1	44	39	9.65	<2	106	6	<5	14	<2	<2	19	3	13	826	.66	.06	1.72	.33	.05	.43	556
R0310000	Z09062	98	10	475	.4	<2	17	1	36	24	6.36	<2	74	7	<5	9	2	<2	8	2	9	351	.4	.05	1.12	.2	.05	.39	454
R0310001	Z09063	106	6	313	<.4	<2	25	1	37	28	6.94	<2	66	<5	<5	8	<2	<2	10	3	18	446	.59	.08	1.46	.2	.05	.65	489
R0310002	Z09064	56	4	213	<.4	<2	85	<1	33	49	7.61	<2	135	<5	5	50	3	<2	54	2	21	629	1.36	.15	2.4	.65	.09	1.52	496
R0310003	Z09065	24	<4	151	<.4	<2	23	<1	23	14	6	<2	61	7	<5	6	<2	<2	9	<2	11	242	.4	.05	1.03	.05	.06	.57	562
R0310004	Z09066	15	<4	499	<.4	<2	13	1	23	21	4.12	<2	63	11	<5	2	<2	<2	5	2	15	242	.43	.01	.99	.11	.05	.36	429
R0310005	Z09067	13	<4	396	<.4	10	18	<1	15	26	4.28	<2	84	7	<5	12	<2	<2	5	<2	14	267	.59	.06	1.58	.14	.05	.56	426
R0310006	Z09068	34	5	275	<.4	5	272	<1	32	30	5.37	<2	74	<5	<5	65	2	<2	185	8	27	537	1.46	.2	3.96	1.28	.2	1.68	1303
R0310007	Z09069	37	4	511	<.4	<2	20	1	24	36	3.81	<2	92	<5	<5	9	<2	<2	8	2	17	266	.55	.05	1.91	.27	.11	.68	468
R0310008	Z09070	51	4	549	<.4	<2	14	1	24	29	3.45	<2	83	5	<5	<2	<2	<2	5	<2	12	224	.44	.02	1.45	.15	.11	.37	445
R0310009	Z09071	41	<4	135	<.4	<2	26	<1	24	32	3.27	<2	63	5	<5	6	<2	<2	7	3	18	162	.64	.07	1.85	.21	.1	.88	443
R0310010	Z09072	66	20	35	.5	<2	5	1	100	71	20.56	3	54	21	<5	5	<2	<2	4	2	19	268	.36	.02	.74	.18	.06	.19	294
R0310011	Z09073	36	10	30	.5	<2	20	<1	60	39	7.58	<2	106	9	<5	18	<2	<2	21	3	16	276	.7	.07	1.15	.56	.06	.25	690
R0310012	Z09074	31	8	26	.4	<2	11	<1	24	30	4.93	<2	53	5	<5	8	<2	<2	6	2	3	243	.66	.05	1.14	.6	.05	.31	399
R0310013	Z09075	55	10	18	.5	13	12	<1	25	52	9.14	2	71	14	<5	6	<2	<2	6	<2	8	158	.39	.03	.87	.28	.05	.29	419
R0310014	Z09076	46	13	74	.7	77	11	1	62	45	10.72	2	71	12	<5	3	<2	<2	6	<2	7	182	.43	.01	.93	.29	.05	.27	373
R0310015	Z09077	43	15	35	<.4	11	11	<1	39	38	6.5	<2	62	9	<5	<2	<2	<2	11	2	17	332	.52	.02	1.19	.54	.1	.28	421
R0310016	Z09078	58	19	32	.8	15	9	<1	73	66	12.81	<2	74	16	<5	7	<2	<2	6	3	14	261	.45	.03	.98	.55	.06	.24	403
R0310017	Z09079	36	15	33	.7	45	9	<1	65	49	11.8	<2	72	17	<5	<2	<2	<2	8	2	14	242	.43	.02	1.07	.45	.09	.25	424
R0310018	Z09080	39	21	27	.5	67	7	<1	98	56	15.51	3	64	18	<5	<2	<2	<2	15	2	10	187	.43	<.01	1.19	.42	.14	.2	424
R0310019	Z09081	34	14	43	<.4	3	13	<1	55	33	7.86	<2	68	11	<5	<2	<2	<2	14	2	17	278	.56	.02	1.27	.46	.14	.31	484
R0310020	Z09082	51	15	44	.5	35	9	<1	56	59	11.56	2	50	18	<5	3	<2	<2	19	2	15	219	.48	<.01	1.21	.42	.14	.26	474
R0310021	Z09083	22	5	45	.4	<2	13	<1	19	26	4.47	<2	48	5	<5	<2	2	2	35	2	16	290	.81	.04	2.5	1.09	.29	.58	496
R0310022	Z09084	52	5	45	.5	<2	14	<1	24	34	5.45	<2	55	8	<5	<2	<2	<2	27	2	18	299	.67	.02	2.2	1.04	.26	.36	472
R0310023	Z09085	25	4	43	<.4	<2	33	<1	24	35	4.48	<2	83	7	6	11	<2	<2	32	3	15	369	.99	.09	3.14	1.34	.4	1.04	446
R0310024	Z09086	46	<4	42	<.4	<2	86	<1	23	41	4.08	<2	111	<5	<5	25	<2	<2	57	2	14	320	1.16	.12	3.8	1.2	.38	1.56	494
R0310025	Z09087	39	4	23	<.4	<2	45	<1	23	27	3.64	<2	97	<5	<5	5	<2	<2	51	3	23	279	.94	.09	3.1	.97	.44	1.1	518
R0310026	Z09088	28	<4	35	<.4	<2	48	<1	28	35	4.2	<2	113	6	<5	9	<2	<2	39	2	22	370	1.07	.09	2.82	.88	.27	.94	554
R0310027	Z09089	137	<4	64	<.4	<2	77	<1	33	77	4.35	<2	159	<5	<5	59	<2	<2	58	3	10	410	1.35	.13	3.94	1.78	.44	1.15	366

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
R0310028	Z09090	71	4	86	<.4	<2	91	<1	45	99	5.32	<2	225	<5	<5	86	<2	<2	50	2	8	506	1.21	.14	4.41	1.5	.22	.7	264
R0310029	Z09091	53	8	102	.4	<2	101	<1	37	75	6.24	<2	180	<5	9	58	<2	<2	64	5	10	921	1.61	.17	5.83	2.42	.18	.82	328
R0310030	Z09092	40	8	52	.4	<2	51	<1	29	40	7.4	<2	105	<5	9	15	<2	<2	67	4	22	676	1.15	.14	5.08	1.82	.25	.87	490
R0310031	Z09093	33	<4	129	<.4	<2	61	<1	11	26	3.74	<2	76	<5	5	5	<2	<2	44	2	8	447	.93	.11	3.85	1.08	.25	1.01	366
R0310032	Z09094	107	10	110	<.4	<2	81	<1	16	18	2.52	<2	74	<5	5	<2	<2	<2	80	2	10	382	.91	.09	4.89	1.94	.38	.89	307
R0310033	Z09095	43	<4	24	<.4	<2	118	<1	37	32	4.31	<2	89	<5	5	11	<2	<2	33	3	16	229	1.14	.12	3.88	.93	.22	1.15	427
R0310034	Z08960	124	<4	13	<.4	2	20	<1	16	8	2.35	11	113	<5	<5	13	<2	<2	9	<2	10	41	.31	.02	.92	.12	.08	.09	510
R0310035	Z08961	136	4	5	3.6	16	63	<1	6	2	1.18	<2	132	<5	<5	<2	<2	<2	9	<2	16	10	.05	<.01	.37	.03	.06	.15	176
R0310036	Z08962	8	4	20	<.4	<2	41	<1	1	1	.98	<2	88	<5	<5	4	<2	<2	17	<2	11	52	.18	<.01	.61	.02	.08	.18	82
R0310037	Z08963	96	<4	4	<.4	13	36	<1	13	5	2.02	<2	122	<5	<5	15	<2	<2	15	2	12	72	.24	.04	.58	.07	.07	.25	730
R0310038	Z08964	31	4	15	<.4	<2	43	<1	13	18	2.87	<2	100	<5	<5	<2	<2	<2	75	3	17	510	.56	.09	3.39	1.19	.29	.66	594
R0310039	Z08965	14	6	14	.4	<2	48	<1	7	18	2.74	<2	84	<5	6	<2	<2	<2	86	2	12	449	.61	.07	3.55	1.29	.25	.59	583
R0310040	Z08966	18	<4	19	<.4	<2	55	<1	8	19	3.11	<2	93	<5	<5	<2	2	<2	51	2	16	489	.75	.11	2.9	.93	.16	.69	579
R0310041	Z08967	40	<4	59	.7	<2	69	<1	12	36	2.97	<2	151	<5	<5	16	<2	<2	29	4	14	172	.28	.07	1.23	.34	.07	.51	936
R0310042	Z08968	205	<4	31	<.4	<2	<5	<1	75	671	6.01	<2	2027	5	<5	44	3	<2	102	2	<2	592	5.25	.01	1.39	2.82	.02	<.01	37
R0310043	Z08969	14	<4	34	<.4	<2	<5	<1	87	1086	6.88	<2	2490	11	<5	31	<2	<2	10	<2	<2	600	13.3	.01	.83	.4	.02	<.01	40
R0310044	Z08970	23	<4	55	<.4	<2	<5	<1	22	32	6.26	<2	47	<5	<5	238	<2	<2	7	10	6	494	.97	.22	1.66	1.81	.28	.08	445
R0310045	Z08971	13	<4	23	<.4	<2	24	<1	11	17	1.86	<2	101	<5	<5	45	2	<2	310	6	17	173	.52	.21	1.07	1.13	.08	.1	968
R0310046	Z08972	56	<4	29	<.4	<2	31	<1	18	31	3.22	<2	141	<5	<5	81	2	2	89	10	4	423	.76	.33	1.75	2.39	.11	.08	355
R0310047	Z08973	86	<4	75	<.4	<2	9	<1	31	16	7.51	<2	37	<5	<5	169	<2	<2	14	18	6	837	.75	.2	2.96	2.99	.3	.06	792
R0310048	Z08756	24	7	60	.4	<2	23	<1	18	21	6.54	<2	107	<5	<5	11	<2	<2	16	<2	7	167	.14	.09	.53	.19	.07	.18	289
R0310049	Z08757	21	5	32	.4	<2	19	<1	11	17	3.17	<2	96	<5	<5	7	2	<2	14	<2	11	254	.19	.06	.72	.31	.07	.13	353
R0310050	Z08758	54	<4	18	.4	<2	31	<1	29	38	3.4	<2	86	<5	<5	<2	<2	<2	54	2	19	155	.72	.1	3.64	1.13	.19	.66	447
R0310051	Z08759	16	<4	10	<.4	<2	14	<1	3	26	.45	<2	122	<5	<5	<2	<2	<2	33	<2	<2	81	.34	.06	2.99	1.89	.32	.02	39
R0310052	Z08760	3	<4	2	<.4	<2	46	<1	3	17	1.61	<2	129	<5	<5	10	<2	<2	9	4	20	58	.29	.05	.91	.14	.05	.4	709
R0310053	Z08761	158	<4	32	<.4	<2	5	<1	10	25	2.02	<2	95	<5	5	36	<2	<2	158	3	7	370	1.05	.06	3.09	2.29	.26	.02	193
R0310054	Z08762	44	5	24	<.4	<2	29	<1	10	17	1.63	<2	139	<5	<5	<2	<2	<2	15	2	7	188	.37	.01	1.01	.26	.08	.17	273
R0310055	Z08763	314	12	77	1.0	17	13	<1	25	81	10.1	<2	102	<5	<5	106	<2	<2	3	5	2	400	.58	.18	2.15	.16	.04	.35	303
R0310056	Z08764	680	16	276	.9	253	26	1	81	95	5.38	2	93	<5	<5	<2	<2	<2	7	3	4	231	.85	.01	1.49	.24	.08	.22	404
R0310057	Z08765	179	8	136	.6	<2	59	<1	12	25	2.49	<2	86	<5	<5	5	2	<2	42	4	25	393	1.05	.08	2.56	1.32	.04	.47	573
R0310058	Z08766	18	6	11	.8	10	27	<1	24	11	3.48	<2	257	<5	<5	<2	<2	<2	2	<2	6	12	.02	<.01	.47	<.01	.04	.25	68
R0310059	Z08767	26	<4	36	<.4	<2	48	<1	15	17	.98	7	113	<5	<5	19	<2	<2	26	3	12	152	.29	.08	1.04	.39	.09	.29	610
R0310060	Z08768	9	<4	37	<.4	<2	124	<1	12	35	1.88	<2	155	<5	<5	31	<2	<2	76	2	6	544	.69	.17	1.33	1.15	.08	.32	705
R0310061	Z08769	43	<4	28	<.4	<2	65	<1	18	65	2.12	<2	296	<5	<5	23	2	<2	10	<2	9	128	.72	.07	1.08	.53	.11	.19	622
R0310062	Z08770	71	<4	20	<.4	<2	15	<1	17	58	1.59	<2	155	<5	<5	17	<2	<2	32	2	<2	172	.69	.08	1.56	1.32	.1	.05	175
R0310063	Z08771	88	<4	16	<.4	<2	9	<1	19	59	1.8	<2	219	<5	<5	26	2	<2	38	2	<2	214	.78	.07	1.35	1.22	.09	.03	186

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
R0310064	Z08772	78	<4	76	<.4	<2	137	<1	47	532	3.09	<2	464	<5	<5	5	3	<2	61	<2	7	252	1.2	.06	2.68	1.39	.19	.32	384
R0310065	Z08773	45	<4	26	<.4	<2	13	<1	15	41	2.58	<2	98	<5	<5	56	<2	<2	25	7	<2	330	.88	.33	2.62	1.99	.25	.06	395
R0310066	Z08774	18	<4	44	<.4	<2	5	<1	10	18	3.36	<2	101	<5	<5	25	2	<2	4	25	6	337	.59	.11	1.5	1.37	.21	.04	1737
R0310067	Z08775	8	<4	5	<.4	<2	<5	<1	2	6	.6	<2	377	<5	<5	13	<2	<2	8	<2	3	44	.05	.01	.16	.07	.04	.01	15
R0310068	Z08776	3	<4	13	<.4	<2	<5	<1	5	15	1.02	2	188	<5	<5	41	<2	<2	39	<2	4	141	.32	.06	.7	.47	.03	.01	73
R0310069	Z08777	51	<4	38	.4	<2	6	<1	28	9	4.64	<2	20	<5	<5	182	<2	<2	7	7	2	507	.92	.2	1.66	1.79	.28	.06	252
R0310070	Z08778	695	<4	71	<.4	<2	<5	<1	36	43	6.86	<2	15	<5	<5	197	<2	<2	12	4	<2	598	1.6	.17	2.71	1.01	.13	.01	355
R0310071	Z08779	9	<4	22	<.4	<2	<5	<1	11	16	2.51	<2	123	<5	<5	31	<2	<2	54	3	5	262	.48	.16	1.31	.71	.06	.01	549
R0310072	Z08780	48	<4	66	<.4	<2	18	<1	20	10	7.44	<2	52	<5	<5	<2	<2	<2	29	27	7	897	.74	.3	2.24	1.03	.13	.08	924
R0310073	Z08781	21	<4	52	<.4	<2	<5	<1	38	210	4.52	<2	38	<5	<5	15	2	3	3	2	<2	324	2.64	.08	3.23	.71	.1	.02	254
R0310074	Z08782	93	6	69	.4	<2	55	<1	32	26	7	<2	72	<5	<5	136	<2	2	19	8	7	531	1.02	.22	2.83	1.98	.21	.36	560
R0310075	Z08783	22	<4	64	<.4	<2	241	<1	14	43	2.73	<2	161	<5	<5	59	<2	<2	35	3	15	434	1.02	.24	1.82	.51	.08	1	842
R0310076	Z08784	62	<4	66	<.4	<2	18	<1	23	78	2.94	<2	118	<5	<5	40	3	4	92	4	<2	481	1.32	.19	3.9	2.73	.25	.12	72

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised
If requested analyses are not shown ,results are to follow

ANALYTICAL METHODS

ICP PACKAGE :0.5 gram sample digested in hot reverse aqua regia (soil,silt) or hot Aqua Regia(rocks).

LIZAR-CEX

Job V 03-0396R

8756-9095(SERIES)

Report date 12 JAN 2004

LAB NO	FIELD NUMBER	SiO2 %	TiO2 %	Al2O3 %	Fe2O3 %	FeO %	MnO %	MgO %	CaO %	Na2O %	K2O %	P2O5 %	Ba(F) %	LOI %	Total %
R0310042	Z08968	37.70	0.15	4.65	12.22		0.11	26.62	4.78	0.14	0.01	0.10	0.01	12.72	99.21
R0310043	Z08969	37.18	0.12	2.92	12.06		0.10	34.09	0.62	0.01	0.01	0.03	0.01	12.06	99.21
R0310044	Z08970	49.31	1.83	12.53	18.69		0.20	4.88	8.69	2.76	0.33	0.12	0.01	0.30	99.65
R0310051	Z08759	49.43	0.34	16.06	7.23		0.14	9.47	13.56	1.75	0.18	0.03	0.01	1.26	99.46
R0310059	Z08767	69.20	0.44	16.57	1.77		0.02	0.70	3.26	4.38	1.97	0.14	0.05	0.94	99.44
R0310060	Z08768	65.27	0.56	13.56	5.42		0.15	2.42	7.30	2.25	1.09	0.18	0.04	1.17	99.41
R0310065	Z08773	49.27	1.40	14.03	13.00		0.20	7.25	11.14	1.75	0.46	0.11	0.01	0.93	99.55
R0310066	Z08774	56.90	1.50	13.38	13.47		0.20	3.89	6.13	3.49	0.15	0.33	0.01	0.15	99.60
R0310069	Z08777	47.79	1.99	13.25	18.92		0.23	4.88	8.85	2.69	0.30	0.15	0.01	0.40	99.46
R0310070	Z08778	43.47	2.19	13.10	21.70		0.23	6.40	8.31	1.84	0.10	0.10	0.01	2.02	99.47
R0310073	Z08781	45.63	0.68	13.22	15.27		0.18	12.43	7.76	1.45	0.40	0.09	0.01	2.69	99.81

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised
If requested analyses are not shown ,results are to follow

ANALYTICAL METHODS

FeO determined by acid digestion /volumetric.LOI determined gravimetrically.
Other elements by Li borate fusion/XRF .Where no FeO value shown 'Fe2O3' is total Fe as Fe2O3

LIZAR-CEX

Job V 03-0509R

8785-9152(SERIES)

Report date 12 JAN 2004

LAB NO	FIELD NUMBER	Au ppb	Wt Au gram	Hg ppb
R0313181	Z08785	<10	10	<10
R0313182	Z08786	<10	10	<10
R0313183	Z08787	<10	10	<10
R0313184	Z08788	<10	10	<10
R0313185	Z08789	<10	10	<10
R0313186	Z08790	<10	10	<10
R0313187	Z08791	11	10	<10
R0313188	Z08792	<10	10	<10
R0313189	Z08793	<10	10	<10
R0313190	Z08794	<10	10	<10
R0313191	Z08795	<10	10	<10
R0313192	Z08796	2010	10	<10
R0313193	Z08974	<10	10	<10
R0313194	Z08975	11	10	<10
R0313195	Z08976	10	10	<10
R0313196	Z08977	<10	10	<10
R0313197	Z08978	<10	10	<10
R0313198	Z08979	<10	10	<10
R0313199	Z08980	197	10	<10
R0313200	Z08981	<10	10	<10
R0313201	Z09201	24	10	<10
R0313202	Z09202	<10	10	<10
R0313203	Z09203	<10	10	<10
R0313204	Z09204	<10	10	<10
R0313205	Z09205	41	10	<10
R0313206	Z09206	<10	10	<10
R0313207	Z09207	31	10	<10
R0313208	Z09208	<10	10	<10
R0313209	Z09209	12	10	<10
R0313210	Z09210	<10	10	<10
R0313211	Z09029	<10	10	<10
R0313212	Z09030	<10	10	<10
R0313213	Z09031	<10	10	<10
R0313214	Z09032	<10	10	<10
R0313215	Z09033	<10	10	<10
R0313216	Z09034	<10	10	<10
R0313217	Z09035	<10	10	<10
R0313218	Z09036	<10	10	<10
R0313219	Z09037	<10	10	<10
R0313220	Z09038	<10	10	<10
R0313221	Z09109	<10	10	<10
R0313222	Z09110	<10	10	<10
R0313223	Z09112	<10	10	<10
R0313224	Z09111	<10	10	68
R0313225	Z09113	<10	10	<10
R0313226	Z09114	59	10	<10
R0313227	Z09115	<10	10	<10
R0313228	Z09116	<10	10	<10
R0313229	Z09117	<10	10	<10
R0313230	Z09118	<10	10	<10
R0313231	Z09119	<10	10	<10

LAB NO	FIELD NUMBER	Au ppb	Wt Au gram	Hg ppb
R0313232	Z09120	<10	10	<10
R0313233	Z09121	<10	10	<10
R0313234	Z09122	<10	10	<10
R0313235	Z09123	28	10	<10
R0313236	Z09124	<10	10	<10
R0313237	Z09125	<10	10	<10
R0313238	Z09126	<10	10	<10
R0313239	Z09127	<10	10	10
R0313240	Z09128	11	10	<10
R0313241	Z09129	<10	10	<10
R0313242	Z09130	23	10	<10
R0313243	Z09131	<10	10	<10
R0313244	Z09132	26	10	<10
R0313245	Z09133	<10	10	<10
R0313246	Z09134	10	10	<10
R0313247	Z09135	12	10	<10
R0313248	Z09136	269	10	<10
R0313249	Z09137	76	10	<10
R0313250	Z09138	<10	10	<10
R0313251	Z09139	<10	10	<10
R0313252	Z09140	<10	10	<10
R0313253	Z08875	<10	10	<10
R0313254	Z08876	59	10	<10
R0313255	Z08877	<10	10	<10
R0313256	Z08878	<10	10	<10
R0313257	Z08879	<10	10	<10
R0313258	Z08880	<10	10	<10
R0313259	Z08882	<10	10	<10
R0313260	Z08883	<10	10	<10
R0313261	Z08884	<10	10	<10
R0313262	9096	<10	10	<10
R0313263	9097	<10	10	<10
R0313264	9098	<10	10	<10
R0313265	9099	<10	10	<10
R0313266	9100	<10	10	<10
R0313267	9151	<10	10	<10
R0313268	9152	<10	10	<10

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised
If requested analyses are not shown ,results are to follow

ANALYTICAL METHODS

Au Aqua regia decomposition / solvent extraction / AAS
Wt Au The weight of sample taken to analyse for gold (geochem)
Hg Flameless AAS

LIZAR-CEX

Job V 03-0509R

8785-9152(SERIES)

Report date 12 JAN 2004

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
R0313181	Z08785	695	10	60	.6	2	91	<1	24	17	2.01	<2	61	<5	<5	21	<2	<2	43	3	11	70	.79	.06	1.8	.64	.11	.53	618
R0313182	Z08786	253	10	77	.5	5	46	<1	66	32	3.53	<2	52	<5	<5	23	<2	<2	35	2	10	55	.61	.04	1.53	.49	.11	.4	577
R0313183	Z08787	122	12	92	<.4	7	63	<1	101	26	3.28	2	58	<5	<5	29	<2	<2	69	3	21	70	.85	.05	2.65	.98	.16	.52	682
R0313184	Z08788	145	8	37	.4	2	74	<1	75	17	1.75	2	72	<5	<5	25	<2	<2	47	3	18	78	.74	.05	2.26	.65	.12	.51	593
R0313185	Z08789	200	8	21	.6	<2	56	<1	63	21	2.43	<2	61	<5	<5	18	<2	<2	29	2	15	91	.76	.05	1.49	.44	.09	.48	583
R0313186	Z08790	9	4	24	<.4	2	23	<1	7	16	.4	<2	84	<5	<5	2	<2	<2	22	2	20	60	.06	<.01	.33	.08	.08	.09	555
R0313187	Z08791	1317	11	28	1.2	12	21	<1	277	77	10.81	3	70	<5	<5	21	<2	<2	12	2	3	88	.6	.07	1.46	.25	.09	.42	501
R0313188	Z08792	15	8	5	<.4	<2	24	<1	1	4	.53	46	92	<5	<5	4	<2	<2	7	<2	<2	16	.04	.02	.29	.04	.06	.08	22
R0313189	Z08793	477	5	14	<.4	<2	10	<1	20	14	2.53	<2	44	<5	<5	49	<2	<2	8	5	2	238	.39	.16	.78	1.02	.11	.06	631
R0313190	Z08794	2	7	45	<.4	<2	290	<1	19	45	2.55	<2	168	<5	<5	80	<2	<2	31	3	21	311	.78	.22	1.72	.56	.08	.96	979
R0313191	Z08795	41	14	61	<.4	<2	466	<1	19	27	3.29	<2	63	<5	<5	86	2	<2	55	6	16	348	1.45	.21	2.52	1.08	.13	1.05	982
R0313192	Z08796	10060	37	333	32.2	<2	16	11	90	686	4.37	<2	388	381	<5	11	<2	<2	10	<2	<2	57	.77	.01	.74	.11	.03	.13	25
R0313193	Z08974	86	7	35	<.4	<2	<5	<1	64	423	4.44	<2	768	<5	<5	46	<2	<2	55	<2	6	515	4.32	.01	1.77	3.14	.02	<.01	215
R0313194	Z08975	298	27	134	<.4	29	170	<1	45	141	3.98	3	194	<5	7	80	<2	<2	62	3	6	391	.54	.11	6.03	3.25	.25	.26	303
R0313195	Z08976	36	6	73	<.4	2	124	<1	21	53	2.68	<2	197	<5	<5	65	<2	<2	18	3	20	260	.89	.2	1.17	.46	.1	.36	1054
R0313196	Z08977	67	18	274	<.4	2	13	2	19	55	4.39	<2	211	<5	<5	50	<2	<2	6	4	13	288	.66	.16	1.01	.46	.13	.09	986
R0313197	Z08978	61	5	71	<.4	<2	<5	<1	17	44	2.84	2	120	<5	<5	39	<2	<2	7	5	18	168	.31	.17	.52	.54	.1	.03	1022
R0313198	Z08979	61	7	57	<.4	3	9	<1	15	38	4.43	3	120	<5	<5	42	<2	<2	11	4	18	242	.35	.16	.58	.51	.1	.08	826
R0313199	Z08980	106	25	1010	26.3	3	14	5	16	45	6.39	3	100	<5	<5	34	<2	<2	7	3	4	156	.51	.05	.73	.24	.07	.24	492
R0313200	Z08981	4	8	65	<.4	<2	245	<1	28	324	2.99	<2	477	<5	<5	66	<2	<2	46	<2	<2	329	3.66	.1	2.22	1.11	.06	.72	314
R0313201	Z09201	1185	6	38	2.9	<2	18	<1	18	11	2.23	26	108	<5	<5	7	<2	<2	6	<2	2	66	.21	.02	.68	.16	.03	.18	220
R0313202	Z09202	36	<4	9	<.4	<2	7	<1	4	25	.71	<2	185	<5	<5	14	<2	<2	17	<2	4	67	.31	.05	.32	.23	.04	.03	133
R0313203	Z09203	57	<4	17	<.4	<2	<5	<1	8	31	1.33	<2	156	<5	<5	38	<2	<2	26	<2	<2	164	.6	.09	.98	.85	.07	.02	89
R0313204	Z09204	53	5	22	<.4	<2	10	<1	16	57	2.02	<2	163	<5	<5	51	<2	<2	3	2	<2	263	1.42	.08	1.19	1.14	.19	.02	187
R0313205	Z09205	1062	2128	2475	105	<2	<5	28	11	18	1.78	3	263	265	<5	5	<2	<2	<2	<2	<2	29	.09	<.01	.21	.13	.03	.01	13
R0313206	Z09206	164	24	119	.8	<2	231	<1	41	401	5.11	<2	904	<5	<5	96	<2	<2	24	6	56	416	3.9	.29	3.84	.96	.03	1.05	2054
R0313207	Z09207	416	18	31	<.4	26	22	<1	41	92	5.72	<2	149	<5	<5	46	<2	<2	113	12	55	257	1.15	.16	1.4	1.43	.08	.04	5445
R0313208	Z09208	15	6	13	<.4	<2	24	<1	6	17	1.03	13	56	<5	<5	16	<2	<2	37	3	11	100	.45	.04	.8	1.07	.1	.09	339
R0313209	Z09209	177	7	31	<.4	5	33	<1	6	14	1.85	<2	94	<5	<5	21	<2	<2	11	2	7	155	.42	.08	.93	.6	.07	.22	303
R0313210	Z09210	202	8	42	<.4	<2	11	<1	7	15	3.89	10	98	<5	<5	29	<2	<2	20	2	3	103	.26	.1	.55	.53	.08	.05	477
R0313211	Z09029	20	15	74	<.4	4	13	<1	19	26	4.24	<2	93	<5	<5	63	<2	<2	17	3	12	549	1.87	.08	2.4	.81	.05	.06	1494
R0313212	Z09030	47	6	30	<.4	<2	10	<1	16	60	2.41	<2	110	<5	<5	47	<2	<2	9	<2	<2	207	1	.11	1.3	.52	.04	.03	178
R0313213	Z09031	96	<4	11	<.4	<2	<5	<1	13	38	1.13	<2	50	<5	<5	19	<2	<2	18	3	<2	123	.32	.06	1.05	.9	.14	.01	384

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
R0313214	Z09032	7	<4	12	<.4	<2	16	<1	3	10	.52	<2	61	<5	<5	8	<2	<2	28	4	8	68	.3	.07	.35	.54	.06	.07	1387
R0313215	Z09033	2	14	52	<.4	<2	59	<1	4	8	1.63	<2	96	<5	<5	26	<2	<2	23	4	14	317	.39	.09	.82	.44	.07	.37	520
R0313216	Z09034	123	<4	18	.4	<2	<5	<1	15	31	1.61	<2	44	<5	<5	37	<2	<2	6	4	<2	166	.39	.11	.82	.86	.12	.02	442
R0313217	Z09035	385	9	20	.9	3	74	<1	10	15	2.12	<2	83	<5	<5	22	<2	<2	13	2	5	107	.48	.09	1.14	.69	.07	.39	322
R0313218	Z09036	9	<4	11	<.4	<2	5	<1	6	22	.96	<2	64	<5	<5	26	<2	<2	11	3	<2	107	.43	.1	.71	.64	.06	.03	186
R0313219	Z09037	23	10	70	<.4	<2	48	<1	26	216	4.05	<2	319	<5	<5	82	<2	<2	30	4	21	455	2.63	.17	2.19	.86	.04	.16	2082
R0313220	Z09038	119	4	27	<.4	<2	6	<1	20	42	2.51	<2	37	<5	<5	74	<2	<2	6	3	<2	328	.74	.12	1.17	.93	.12	.04	400
R0313221	Z09109	133	6	18	.4	5	25	<1	16	25	5.16	<2	64	<5	<5	30	<2	<2	16	3	3	220	.41	.21	.9	.46	.07	.08	434
R0313222	Z09110	95	4	23	<.4	<2	77	<1	6	14	1.88	<2	65	<5	<5	32	<2	<2	9	<2	<2	91	.55	.1	1.03	.16	.07	.45	283
R0313223	Z09112	47	6	51	<.4	<2	661	<1	19	119	2.64	<2	278	<5	<5	61	<2	<2	39	6	19	174	1.78	.25	1.61	.86	.06	.83	2643
R0313224	Z09111	24	7	23	<.4	3	18	<1	8	39	.95	<2	113	<5	<5	16	<2	3	16	3	21	126	.3	.08	.63	.77	.09	.07	582
R0313225	Z09113	35	9	37	<.4	<2	11	<1	31	137	3.62	<2	33	<5	<5	54	<2	<2	8	3	5	284	1.53	.09	2.13	.89	.14	.04	467
R0313226	Z09114	4	14	81	<.4	2	35	<1	5	13	1.58	<2	67	<5	<5	12	<2	<2	11	<2	4	186	.48	.05	.99	.21	.07	.39	280
R0313227	Z09115	60	4	18	<.4	<2	6	<1	14	49	1.2	<2	96	<5	<5	28	<2	<2	10	2	5	184	.6	.07	1.03	1.14	.14	.04	149
R0313228	Z09116	69	11	26	.4	4	33	<1	9	35	2.07	<2	87	<5	<5	26	<2	<2	50	9	40	213	.72	.03	.79	.89	.11	.01	985
R0313229	Z09117	21	<4	8	<.4	2	17	<1	4	13	.89	<2	138	<5	<5	17	<2	<2	<2	<2	<2	130	.21	.04	.35	.23	.05	.05	58
R0313230	Z09118	62	4	21	.4	<2	18	<1	9	23	2.63	<2	48	<5	<5	66	<2	<2	6	3	2	518	.51	.16	1.13	1.24	.14	.06	312
R0313231	Z09119	868	9	50	1.5	<2	14	<1	18	54	3.01	65	128	<5	<5	51	<2	<2	21	<2	<2	258	1.09	.14	1.35	.55	.06	.05	147
R0313232	Z09120	257	<4	48	.8	<2	17	<1	4	10	1.08	<2	75	<5	<5	7	<2	<2	23	<2	9	243	.31	.04	.57	1.7	.07	.08	286
R0313233	Z09121	8	4	16	<.4	<2	<5	<1	7	21	1.52	<2	74	<5	<5	40	<2	<2	4	2	<2	187	.65	.1	.9	.98	.15	.02	362
R0313234	Z09122	115	6	30	<.4	<2	7	<1	20	49	2.85	<2	53	<5	<5	86	<2	<2	2	6	<2	376	.64	.16	1.19	1.25	.16	.03	323
R0313235	Z09123	16	10	93	<.4	2	37	<1	10	19	2.28	<2	80	<5	<5	53	<2	<2	15	3	4	214	.66	.18	1.22	.5	.1	.26	291
R0313236	Z09124	25	<4	17	<.4	<2	7	<1	9	35	1.47	<2	113	<5	<5	40	<2	<2	8	4	<2	209	.91	.13	.85	.87	.1	.05	153
R0313237	Z09125	18	8	27	<.4	<2	<5	<1	11	46	2	25	112	<5	<5	51	<2	<2	36	3	3	270	1.07	.16	1.38	.89	.06	.03	179
R0313238	Z09126	46	7	19	<.4	<2	19	<1	7	12	1.28	<2	120	<5	<5	28	<2	<2	7	3	4	132	.45	.1	.77	.33	.11	.06	269
R0313239	Z09127	6	<4	<1	<.4	<2	<5	<1	2	9	.37	<2	191	<5	<5	<2	<2	<2	23	<2	<2	14	.01	<.01	.19	.22	.03	<.01	<10
R0313240	Z09128	188	7	35	<.4	4	8	<1	24	83	3.11	6	139	<5	<5	74	<2	<2	18	4	<2	372	1.52	.15	1.62	.77	.09	.03	329
R0313241	Z09129	28	6	7	<.4	2	<5	<1	5	16	.9	<2	72	<5	<5	14	<2	<2	15	<2	3	86	.31	.06	.52	.55	.06	.01	89
R0313242	Z09130	15	4	44	<.4	<2	113	<1	5	14	1.61	<2	83	<5	<5	28	<2	<2	8	2	<2	171	.49	.09	.95	.21	.09	.42	268
R0313243	Z09131	14	5	17	<.4	4	11	<1	6	13	1.09	36	102	<5	<5	19	<2	<2	13	2	6	68	.38	.07	.8	.57	.1	.08	314
R0313244	Z09132	20	11	33	1.2	<2	32	<1	10	23	2.63	2	130	<5	<5	58	<2	<2	12	3	6	218	.88	.12	1.31	.75	.1	.26	348
R0313245	Z09133	7	7	21	<.4	<2	26	<1	7	14	1.3	12	139	<5	<5	19	<2	<2	13	2	5	81	.44	.05	.88	.53	.08	.15	213
R0313246	Z09134	186	4	26	<.4	3	6	<1	15	53	2.2	17	122	<5	<5	47	<2	<2	44	4	2	223	.85	.16	1.16	.98	.11	.04	215
R0313247	Z09135	120	10	58	.5	6	35	<1	9	24	2.17	2	133	<5	<5	36	<2	<2	12	2	5	141	.65	.11	1.05	.26	.11	.13	355
R0313248	Z09136	140	74	38	6.3	14	19	<1	7	17	1.65	3	151	8	<5	<2	<2	<2	3	<2	3	61	.21	.02	.63	.11	.05	.23	274
R0313249	Z09137	98	43	21	1.8	17	15	<1	5	11	1.19	<2	128	<5	<5	<2	<2	<2	4	2	3	77	.2	.01	.41	.18	.05	.19	218

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
R0313250	Z09138	375	6	28	<.4	<2	<5	<1	13	43	1.87	<2	270	<5	<5	42	<2	<2	9	<2	<2	237	1.02	.08	1.03	.44	.05	.02	61
R0313251	Z09139	14	<4	17	<.4	4	22	<1	9	19	1.43	6	49	<5	<5	21	<2	<2	13	3	8	85	.4	.01	.71	.4	.09	.11	448
R0313252	Z09140	84	8	61	<.4	4	19	<1	18	34	2.33	<2	99	<5	<5	50	2	<2	13	4	2	160	.42	.25	.87	.66	.06	.29	732
R0313253	Z08875	41	25	5	<.4	<2	<5	<1	2	8	.31	<2	81	<5	6	29	<2	<2	52	<2	6	47	.12	.05	6.71	3.83	.29	<.01	138
R0313254	Z08876	1	<4	14	<.4	4	23	<1	2	6	.95	2	122	<5	<5	3	<2	<2	10	<2	6	88	.22	.03	.59	.14	.05	.23	273
R0313255	Z08877	181	9	34	<.4	<2	6	<1	26	21	5.51	<2	42	<5	<5	198	<2	<2	3	9	4	399	.6	.2	1.26	1.36	.18	.07	628
R0313256	Z08878	143	9	26	.4	3	9	<1	14	51	1.59	<2	80	<5	<5	34	<2	<2	22	5	<2	145	.27	.18	1.28	1.18	.19	.02	362
R0313257	Z08879	46	7	40	<.4	3	5	<1	26	19	7.37	3	28	<5	<5	242	<2	<2	4	6	<2	345	.62	.2	1.12	1.09	.15	.04	484
R0313258	Z08880	204	16	35	.6	<2	<5	<1	34	58	2.66	<2	78	<5	<5	41	<2	<2	2	<2	<2	209	1.01	.08	1.07	.53	.09	.02	183
R0313259	Z08882	163	4	10	.4	<2	8	<1	9	24	1.51	5	116	<5	<5	30	<2	<2	4	<2	<2	97	.4	.04	.74	.62	.08	.04	86
R0313260	Z08883	109	4	6	<.4	<2	7	<1	13	58	1.23	<2	50	<5	<5	16	<2	<2	14	2	<2	71	.32	.07	.75	.76	.05	.08	140
R0313261	Z08884	269	5	12	<.4	<2	15	<1	4	28	1.13	<2	197	<5	<5	<2	<2	<2	4	<2	<2	18	.11	<.01	.14	.09	.05	.03	21
R0313262	9096	121	7	53	<.4	2	<5	<1	21	68	2.8	3	138	<5	<5	44	<2	<2	8	2	3	325	1.31	.07	1.35	.55	.07	.02	605
R0313263	9097	121	<4	8	<.4	<2	<5	<1	6	15	.59	<2	35	<5	<5	12	<2	<2	19	2	3	61	.21	.05	.7	.66	.09	<.01	355
R0313264	9098	497	12	44	<.4	2	57	<1	38	94	5.25	<2	207	<5	<5	118	<2	<2	4	<2	<2	305	1.91	.14	2.6	.95	.04	.18	251
R0313265	9099	157	12	36	<.4	4	43	<1	38	111	3.99	<2	260	<5	<5	118	<2	5	13	3	2	356	1.42	.13	2.76	.91	.05	.25	397
R0313266	9100	46	4	10	<.4	<2	<5	<1	16	39	1.53	<2	64	<5	<5	26	<2	<2	2	<2	<2	55	.87	.05	.87	.36	.08	.02	467
R0313267	9151	90	5	10	<.4	<2	5	<1	6	26	.71	<2	45	<5	<5	18	<2	<2	22	<2	2	106	.27	.05	1.62	1.33	.2	.01	247
R0313268	9152	4	5	20	<.4	<2	9	<1	8	16	1.56	<2	40	<5	<5	49	<2	<2	23	6	6	395	.33	.08	1.15	2.36	.18	.03	446

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised
If requested analyses are not shown ,results are to follow

ANALYTICAL METHODS

ICP PACKAGE :0.5 gram sample digested in hot reverse aqua regia (soil,silt) or hot Aqua Regia(rocks).

IZAR-CEX

Job V 03-0546R

9039-9146(SERIES)

Report date 12 JAN 2004

LAB NO	FIELD NUMBER	SiO2 %	TiO2 %	Al2O3 %	Fe2O3 %	FeO %	MnO %	MgO %	CaO %	Na2O %	K2O %	P2O5 %	Ba(F) %	LOI %	Total %
0313767	Z09039	50.04	0.56	13.61	11.47		0.18	9.61	11.22	1.87	0.12	0.05	0.01	1.04	99.78
0313768	Z09040	68.26	0.31	15.72	3.22		0.01	1.00	3.43	5.00	1.40	0.05	0.04	1.08	99.52
0313769	Z09041	69.25	0.25	15.06	2.40		0.03	0.75	1.64	4.53	4.15	0.11	0.11	1.12	99.40
0313770	Z09042	50.34	0.67	14.56	11.56		0.17	8.25	10.85	1.75	0.37	0.05	0.01	1.19	99.77
0313771	Z09141	70.44	0.25	14.64	2.42		0.02	0.88	2.71	1.04	4.69	0.05	0.06	2.41	99.61
0313772	Z09144	75.88	0.23	12.57	1.45		0.01	0.67	0.88	6.65	0.28	0.15	0.01	0.56	99.34

=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised
f requested analyses are not shown ,results are to follow

NALYTICAL METHODS

FeO determined by acid digestion /volumetric.LOI determined gravimetrically
Other elements by Li borate fusion/XRF .Where no FeO value shown 'Fe2O3' is total Fe as Fe2O3

LIZAR-CEX

Job V 03-0509R

8785-9152(SERIES)

Report date 12 JAN 2004

LAB NO	FIELD NUMBER	SiO2 %	TiO2 %	Al2O3 %	Fe2O3 %	FeO %	MnO %	MgO %	CaO %	Na2O %	K2O %	P2O5 %	Ba(F) %	LOI %	Total %
R0313186	Z08790	75.12	0.30	13.51	0.74		0.01	0.20	2.41	4.48	1.32	0.11	0.04	1.62	99.86
R0313190	Z08794	67.12	0.60	16.01	3.44		0.03	1.38	4.67	3.86	1.49	0.20	0.05	0.70	99.55
R0313191	Z08795	59.11	0.64	16.01	7.82		0.10	3.82	6.21	2.52	1.84	0.21	0.07	1.29	99.64
R0313232	Z09120	69.08	0.25	13.85	2.11		0.02	0.61	3.51	4.46	2.74	0.07	0.06	2.54	99.30

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised
If requested analyses are not shown ,results are to follow

ANALYTICAL METHODS

FeO determined by acid digestion /volumetric.LOI determined gravimetrically
Other elements by Li borate fusion/XRF .Where no FeO value shown 'Fe2O3' is total Fe as Fe2O3

LIZAR-CEX

Job V 03-0546R

9039-9146(SERIES)

Report date 12 JAN 2004

LAB NO	FIELD NUMBER	Au ppb	Wt Au gram	Hg ppb
R0313763	Z09142	830	10	<10
R0313764	Z09143	139	10	<10
R0313765	Z09145	<10	10	<10
R0313766	Z09146	58	10	<10

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised
If requested analyses are not shown ,results are to follow

ANALYTICAL METHODS

Au Aqua regia decomposition / solvent extraction / AAS
Wt Au The weight of sample taken to analyse for gold (geochem)
Hg Flameless AAS

LIZAR-CEX

Job V 03-0546R

9039-9146(SERIES)

Report date 12 JAN 2004

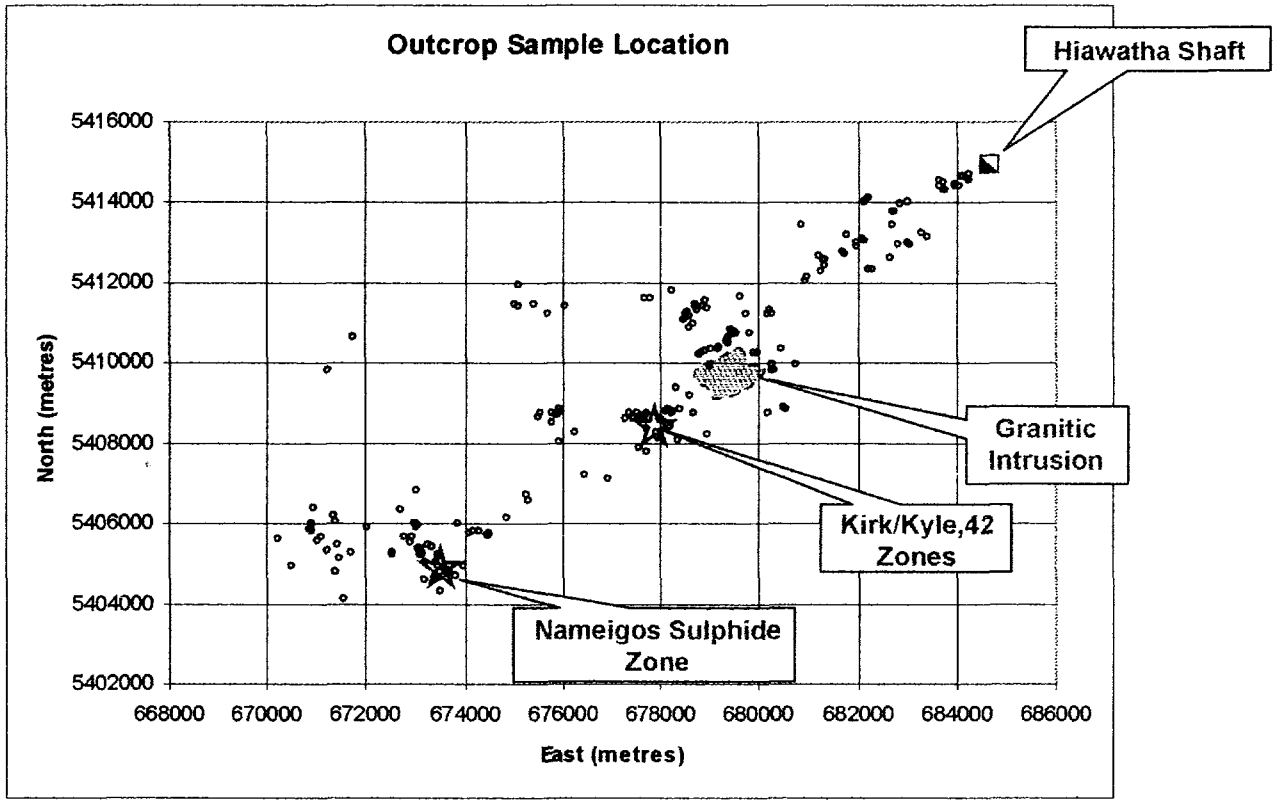
LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
R0313763	Z09142	3	4	5	2.0	70	19	<1	5	12	1.6	<2	163	<5	<5	<2	2	<2	4	2	6	5	<.01	<.01	.45	.08	.04	.25	221
R0313764	Z09143	251	<4	9	<.4	<2	5	<1	3	5	.44	<2	138	<5	<5	13	<2	2	17	3	15	57	.01	.11	.29	1.59	.16	.03	308
R0313765	Z09145	23	<4	27	<.4	2	<5	<1	7	37	1.38	<2	122	<5	<5	25	2	4	5	3	14	93	.45	.09	.7	.19	.13	.02	306
R0313766	Z09146	51	5	20	<.4	<2	7	<1	21	52	2.19	<2	138	<5	<5	36	3	4	16	4	6	542	.84	.09	1	3.63	.1	.04	260

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised
If requested analyses are not shown ,results are to follow

ANALYTICAL METHODS

ICP PACKAGE :0.5 gram sample digested in hot reverse aqua regia (soil,silt) or hot Aqua Regia(rocks).

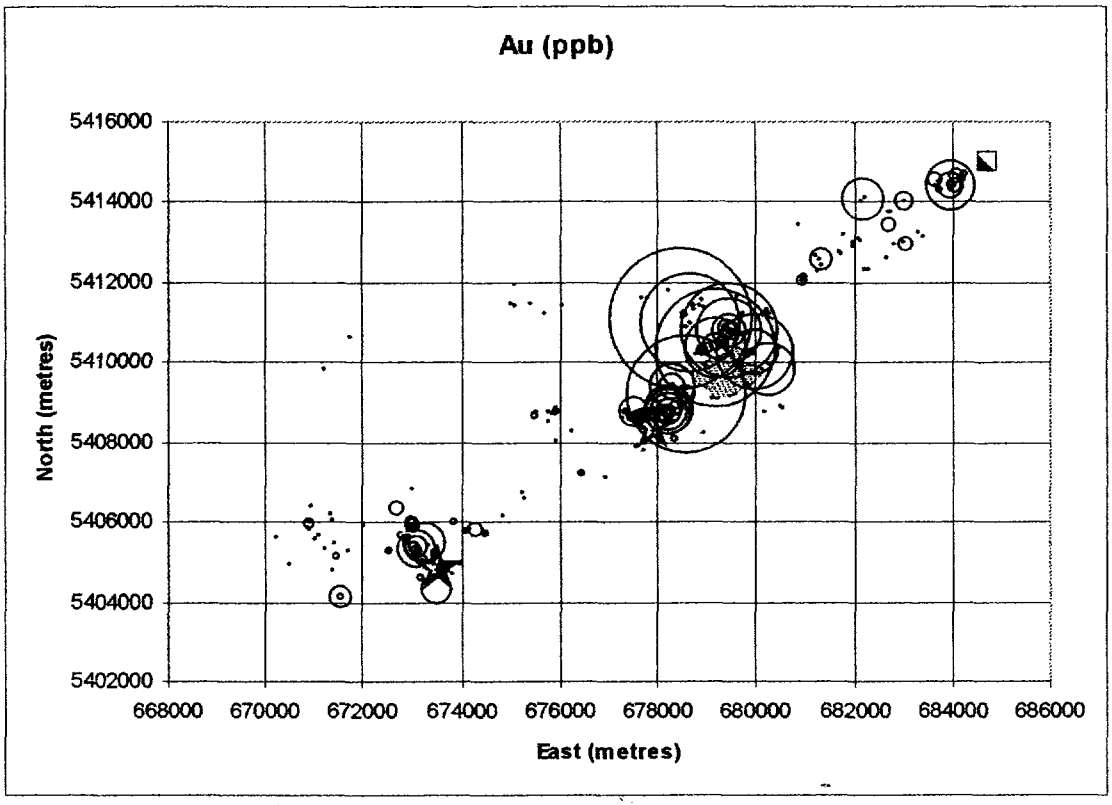
APPENDIX IV



Lizar Project
2003 Teck Cominco Samples, n = 341

Data range on following dot proportional plots:

Au: <5 to 2,010 ppb
As: <2 to 300 ppm
Ag: <0.4 to 105 ppm
Pb: <4 to 3,306 ppm
Cu: 2 to 10,060 ppm
Zn: <1 to 5,795 ppm
Mo: <2 to 150 ppm
Bi: <5 to 381 ppm


Au (ppb)
5416000
5414000
5412000
5410000
5408000
5406000
5404000
5402000
North (metres)
668000
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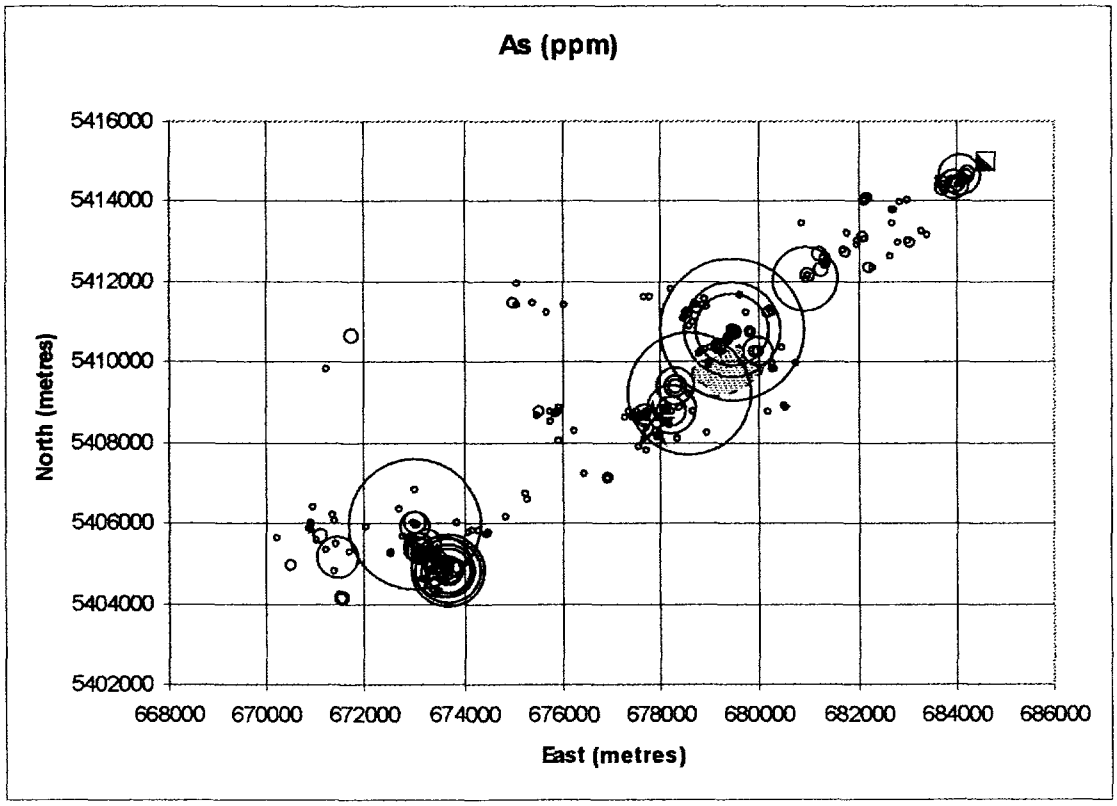
672000
674000
676000
678000
680000
682000
684000
686000
East (metres)


As (ppm)
5416000
5414000
5412000
5410000
5408000
5406000
5404000
5402000
North (metres)
668000
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672000
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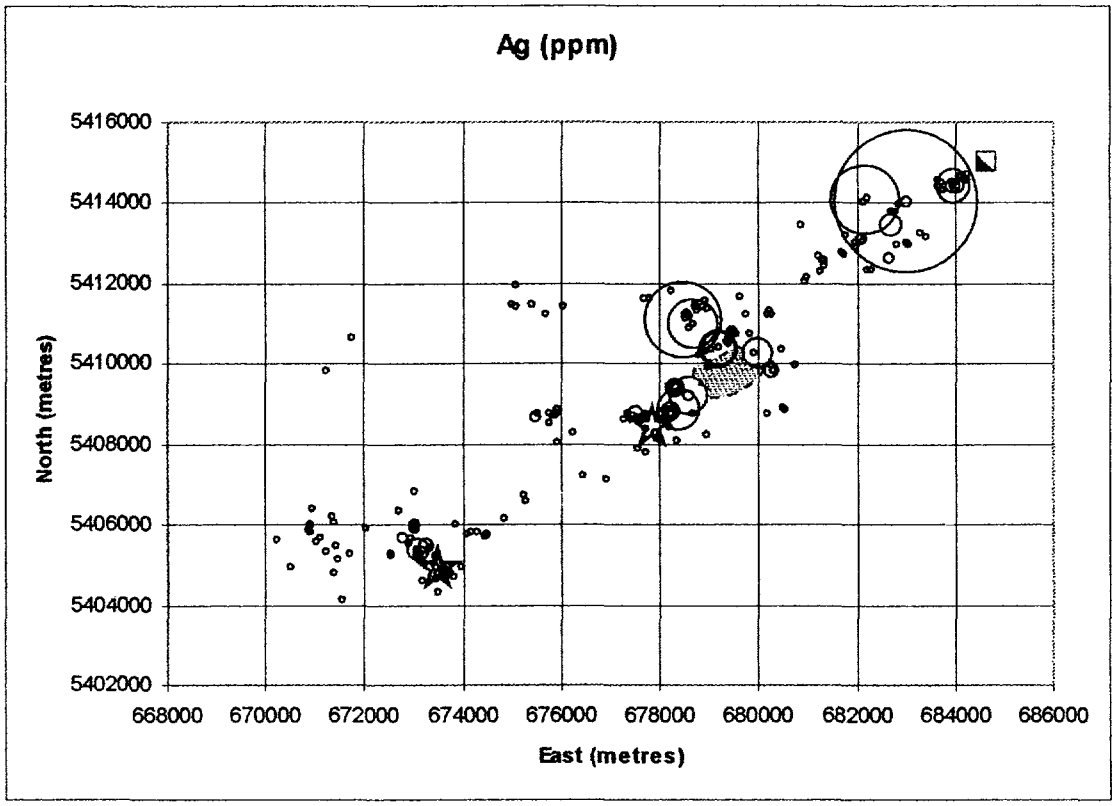
676000
678000
680000
682000
684000
686000
East (metres)


Ag (ppm)
5416000
5414000
5412000
5410000
5408000
5406000
5404000
5402000
North (metres)
668000
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672000
674000
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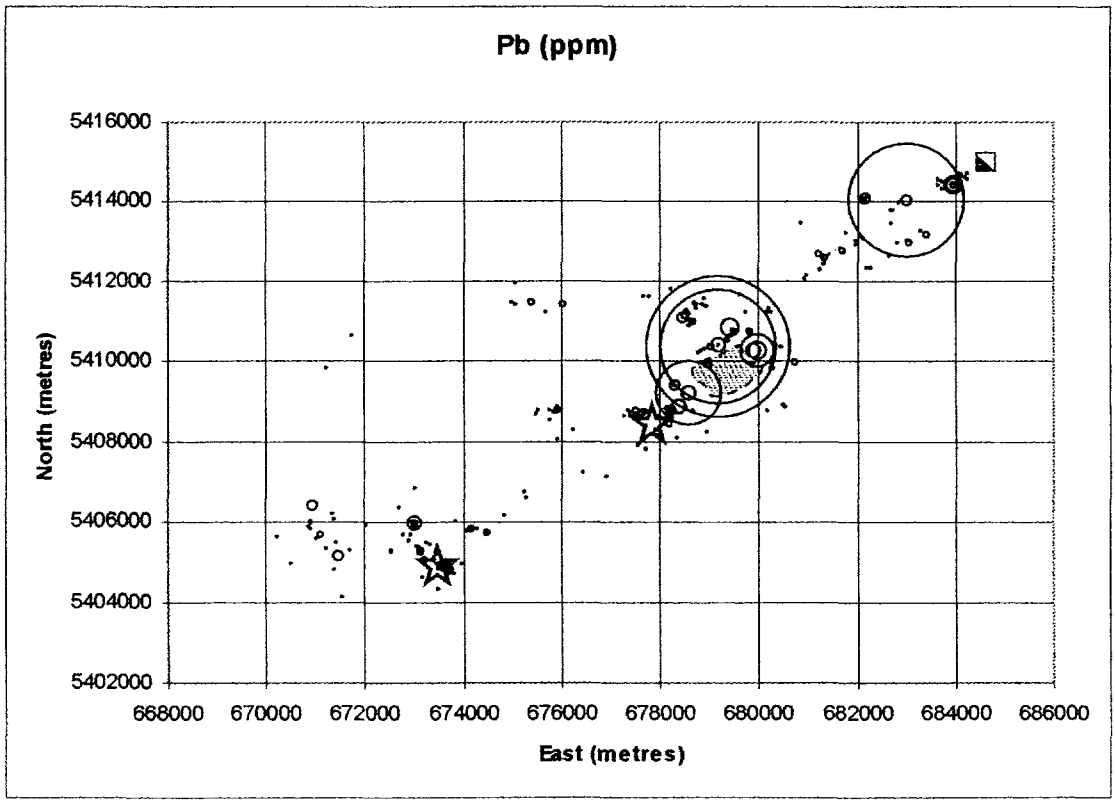
678000
680000
682000
684000
686000
East (metres)


Pb (ppm)
5416000
5414000
5412000
5410000
5408000
5406000
5404000
5402000
North (metres)
668000
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672000
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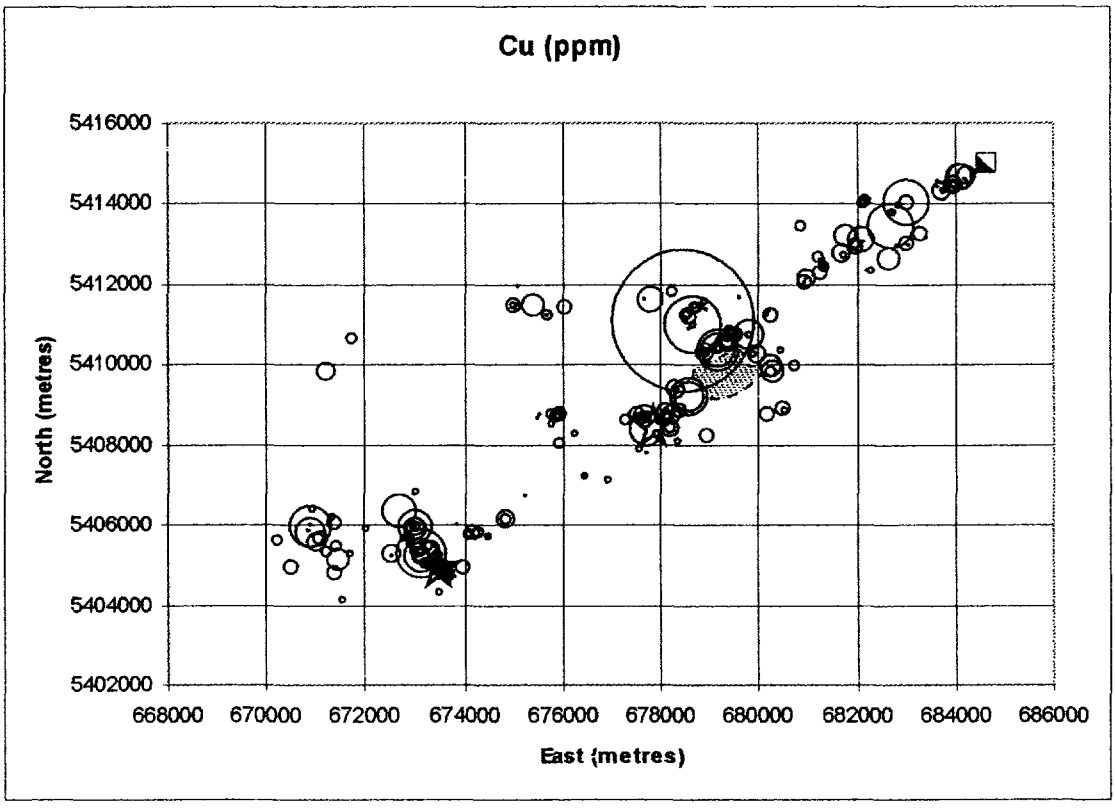
676000
678000
680000
682000
684000
686000
East (metres)


Cu (ppm)
North (metres)
5416000
5414000
5412000
5410000
5408000
5406000
5404000
5402000
668000
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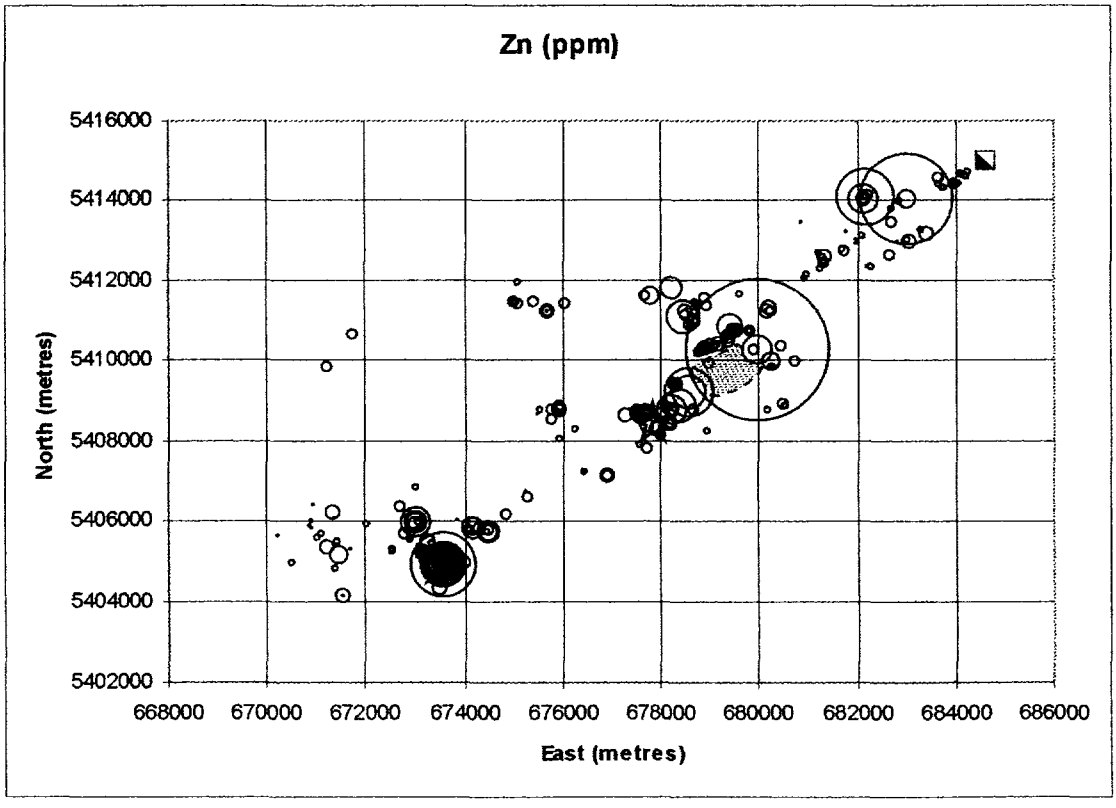
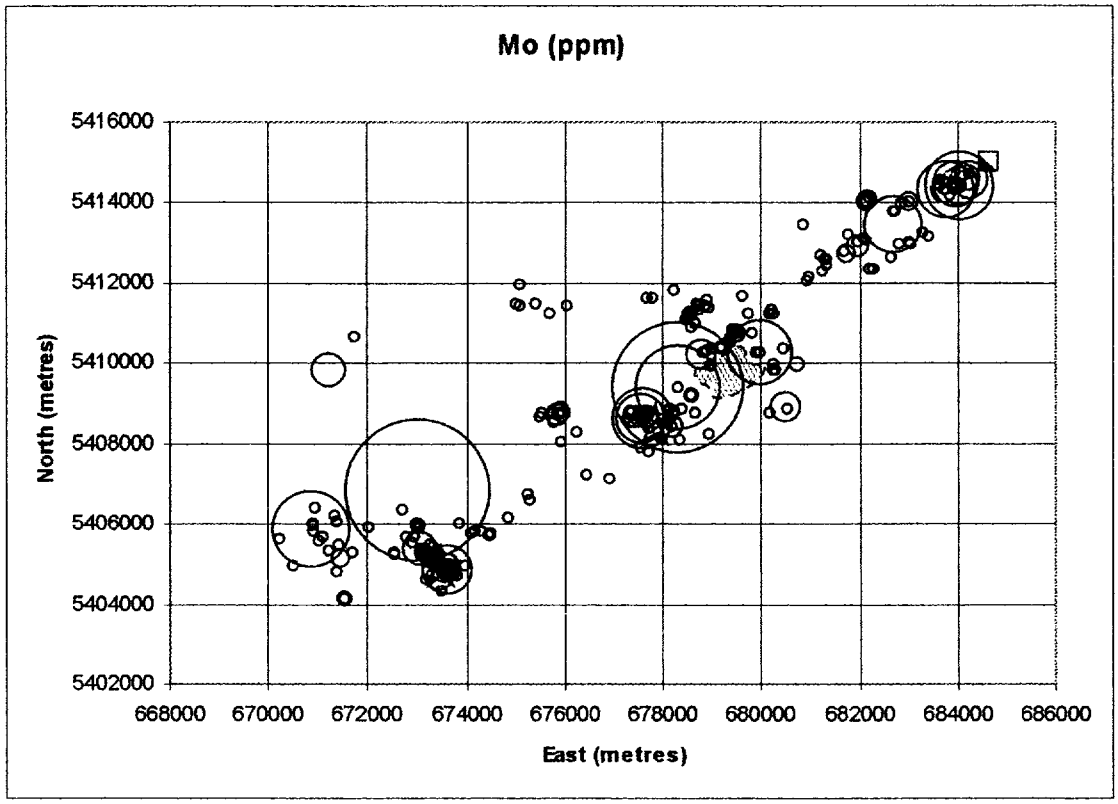
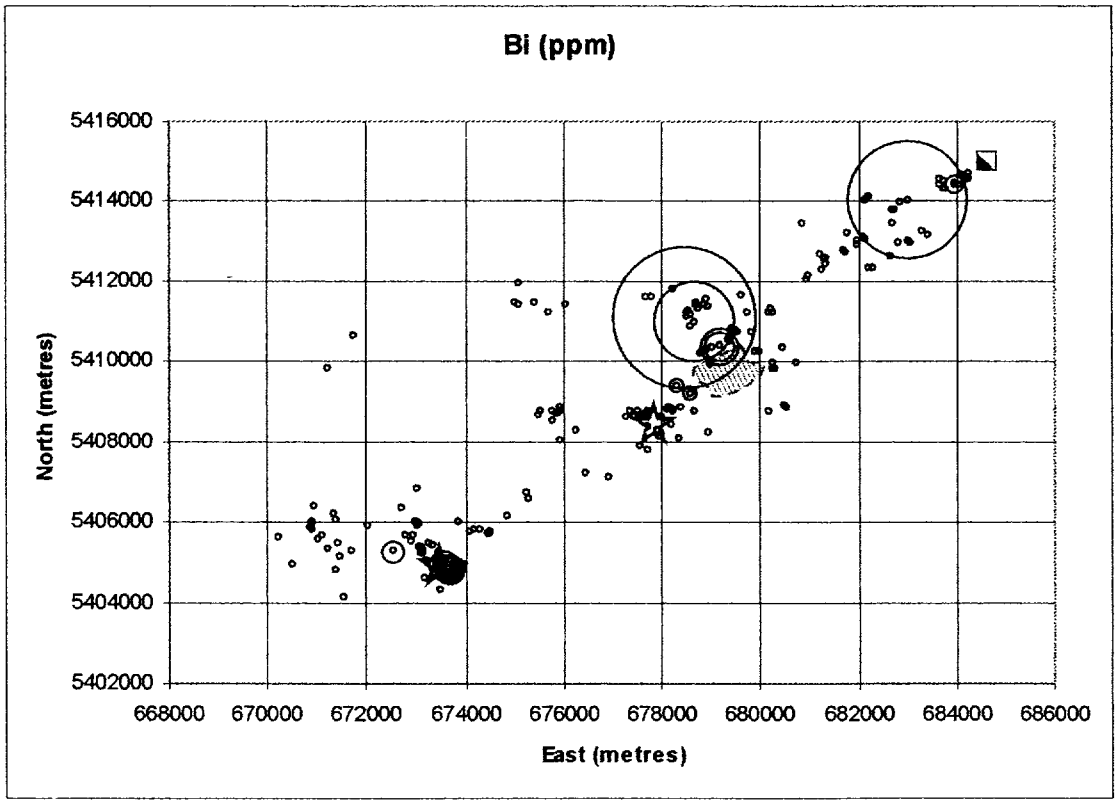
672000
674000
676000
678000
680000
682000
684000
686000
East (metres)


Zn (ppm)
North (metres)
5416000
5414000
5412000
5410000
5408000
5406000
5404000
5402000
668000
670000
672000
674000
676000
678000
680000
682000
684000
686000
East (metres)


Mo (ppm)
5416000
5414000
5412000
5410000
5408000
5406000
5404000
5402000
North (metres)
668000
670000
672000
674000
676000
678000
680000
682000
684000
686000
East (metres)


Bi (ppm)
5416000
5414000
5412000
5410000
5408000
5406000
5404000
5402000
North (metres)
668000
670000
672000
674000
676000
678000
680000
682000
684000
686000
East (metres)

APPENDIX V

Lizar MMI Samples - 2003

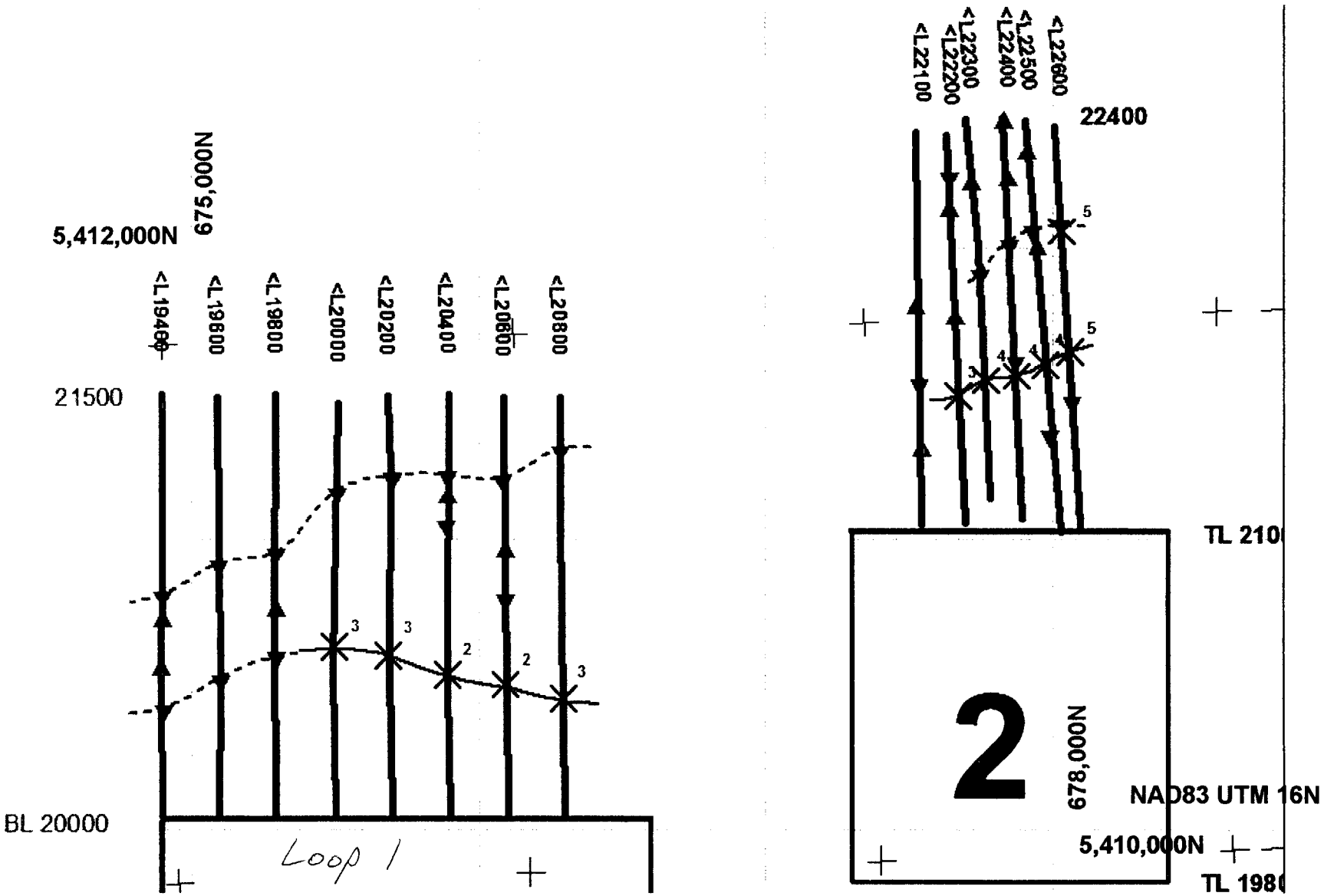
Sample Number	Easting	Northing	Description
M1-1	677367	5408582	sand 95%,silt 5%, clay 0% (10cm)
M1-2	677367	5408582	sand 95%,silt 5%, clay 0% (20cm)
M2-1	677351	5408598	sand 95%,silt 5%, clay 0% (10cm)
M2-2	677351	5408598	sand 95%,silt 5%, clay 0% (20cm)
M3-1	677355	5408610	sand 95%,silt 5%, clay 0% (10cm)
M3-2	677355	5408610	sand 95%,silt 5%, clay 0% (20cm)
M3-3	677355	5408610	sand 95%,silt 5%, clay 0% (30cm)
M4-1	677326	5408642	sand, silt (10 cm)
M4-2	677326	5408642	sand, silt (20 cm)
M4-3	677326	5408642	sand, silt (30 cm)
M5-1	677313	5408660	sand 95%,silt 5%, trace clay (10cm)
M5-2	677313	5408660	sand 95%,silt 5%, trace clay (20cm)
M5-3	677313	5408660	sand 95%,silt 5%, trace clay (30cm)
M6-1	677299	5408680	sand, silt (10 cm)
M6-2	677299	5408680	sand, silt (20 cm)
M6-3	677299	5408680	sand, silt (30 cm)
M7-1	679055	5409957	sand, clay (10 cm)
M7-2	679055	5409957	sand, silt, clay (20 cm)
M7-3	679055	5409957	sand, silt, clay (30 cm)
M8-1	679035	5409970	sand, silt (10 cm)
M8-2	679035	5409970	sand, silt (20 cm)
M8-3	679035	5409970	sand, silt, clay (30 cm)
M9-1	679012	5409980	sand, silt (10 cm)
M9-2	679012	5409980	sand, silt (20 cm)
M9-3	679012	5409980	sand, silt, clay (30 cm)
M10-1	678990	5409993	sand, silt (10 cm)
M10-2	678990	5409993	sand, silt (20 cm)
M10-3	678990	5409993	sand, silt, clay (30 cm)
M11-1	678968	5410003	silt (10 cm)
M11-2	678968	5410003	silt, clay (20 cm)
M11-3	678968	5410003	silt, clay (30 cm)
M12-1	678940	5410015	silt, clay (10 cm)
M12-2	678940	5410015	silt, clay (20 cm)
M12-3	678940	5410015	silt, clay (30 cm)
M13-1	679513	5410890	sand 5%,silt 75%, clay 20% (10cm)
M13-2	679513	5410890	sand 5%,silt 65%, 30 clay 0% (20cm)
M13-3	679513	5410890	sand <1%,silt 30%, clay 70% (10cm)
M14-1	679521	5410865	sand 5%,silt 75%, clay 20% (10cm)
M14-2	679521	5410865	sand 0%,silt 75%, clay 20% (20cm)
M14-3	679521	5410865	sand 0%,silt 70%, clay 30% (30cm)
M15-1	679533	5410846	sand 65%,silt 20%, clay 15% (10cm)
M15-2	679533	5410846	sand 10%,silt 80%, clay 10% (20cm)
M15-3	679533	5410846	sand 5%,silt 75%, clay 20% (30cm)
M16-1	679541	5410820	sand 40%,silt 45%, clay 15% (10cm)
M16-2	679541	5410820	sand 10%,silt 55%, clay 45% (20cm)
M16-3	679541	5410820	sand 20%,silt 45%, clay 35% (30cm)
M17-1	679562	5410803	silt, clay (30 cm)
M17-2	679562	5410803	sand (20 cm)

M17-3	679562	5410803	sand, silt (30 cm)
M18-1	678483	5411010	sand (10 cm)
M18-2	678483	5411010	sand (20 cm)
M18-3	678483	5411010	sand, silt (30 cm)
M19-1	678469	5411027	sand, trace silt, trace clay (10 cm)
M19-2	678469	5411027	sand, trace silt, trace clay (20 cm)
M19-3	678469	5411027	sand, trace silt, trace clay (30 cm)
M20-1	678455	5411042	sand (10 cm)
M20-2	678455	5411042	sand, silt (20 cm)
M20-3	678455	5411042	sand, silt (30 cm)
M21-1	678433	5411077	sand (10 cm)
M21-2	678433	5411077	sand (20 cm)
M21-3	678433	5411077	sand (30 cm)
M22-1	678425	5411085	sand, silt (10 cm)
M22-2	678425	5411085	sand, silt (20 cm)
M22-3	678425	5411085	sand (30 cm)
M23-1	678407	5411104	silt (10 cm)
M23-2	678407	5411104	silt, clay (20 cm)
M23-3	678407	5411104	silt, clay (30 cm)
M24-1	676105	5410255	sand (10 cm)
M24-2	676105	5410255	sand (20 cm)
M24-3	676105	5410255	sand (30 cm)
M25-1	676105	5410305	sand (10 cm)
M25-2	676105	5410305	sand (20 cm)
M25-3	676105	5410305	sand (30 cm)
M26-1	676105	5410350	sand (10 cm)
M26-2	676105	5410350	sand (20 cm)
M26-3	676105	5410350	sand (30 cm)
M27-1	676105	5410402	sand (10 cm)
M27-2	676105	5410402	sand (20 cm)
M27-3	676105	5410402	sand (30 cm)
M28-1	676105	5410452	sand (10 cm)
M28-2	676105	5410452	sand (20 cm)
M28-3	676105	5410452	sand (30 cm)
M29-1	676105	5410505	sand (10 cm)
M29-2	676105	5410505	sand (20 cm)
M29-3	676105	5410505	sand (30 cm)
M30-1	676105	5410550	sand (10 cm)
M30-2	676105	5410550	sand (20 cm)
M30-3	676105	5410550	sand (30 cm)

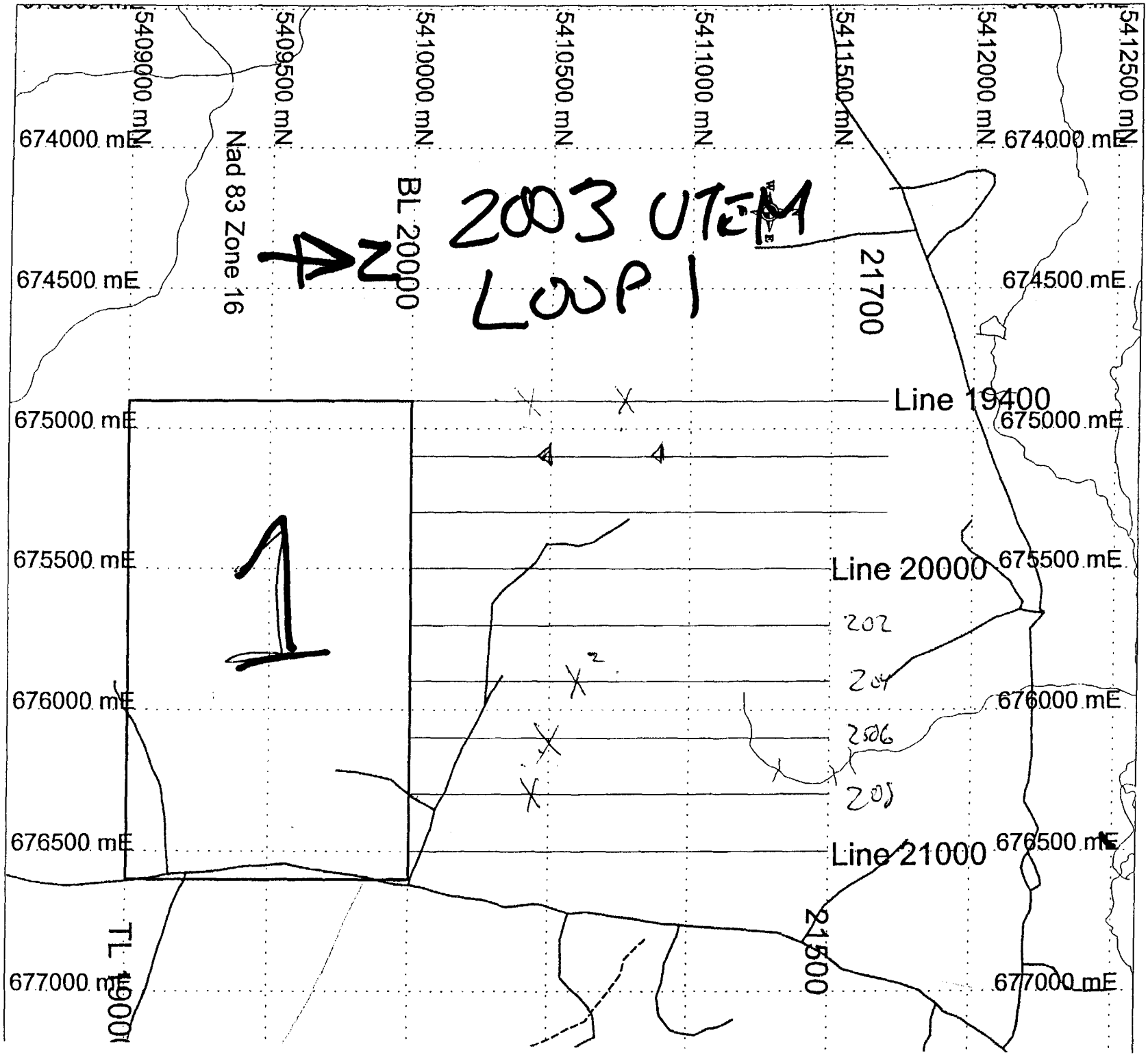
Sample Ident	Cu	Zn	Cd	Pb	Au	Co	Ni	Pd	Ag
Scheme Code	MMI-A	MMI-A	MMI-A	MMI-A	MMI-B	MMI-B	MMI-B	MMI-B	MMI-B
Analysis Unit	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Detection Limit	5	5	10	20	0.1	1	3	0.1	0.1
M 1-1	53	49	21	50	<0.1	3	15	<0.1	1.55
M 1-2	13	36	<10	42	0.1	3	16	<0.1	1.07
M 2-1	113	12	14	70	<0.1	3	7	<0.1	1.6
M 2-2	72	14	11	37	<0.1	3	8	<0.1	1.28
M 3-1	<5	11	<10	33	<0.1	2	24	<0.1	1.06
M 3-2	12	7	<10	<20	<0.1	3	28	<0.1	0.99
M 3-3	42	22	<10	33	<0.1	2	6	<0.1	2.67
M 4-1	15	22	<10	26	<0.1	4	19	<0.1	1.43
M 4-2	13	180	<10	<20	<0.1	4	45	<0.1	2.21
M 4-3	14	23	<10	<20	<0.1	4	19	<0.1	2.03
M 5-1	21	28	<10	24	<0.1	1	19	<0.1	5.11
M 5-2	<5	21	<10	<20	<0.1	3	26	<0.1	3.24
M 5-3	<5	14	<10	<20	<0.1	2	26	<0.1	1.99
M 6-1	30	38	10	49	<0.1	3	10	<0.1	3.6
M 6-2	9	17	<10	<20	<0.1	3	17	<0.1	2.49
M 6-3	<5	7	<10	<20	<0.1	1	5	<0.1	1.07
M 7-1	81	20	<10	<20	0.19	6	40	<0.1	1.76
M 7-2	182	32	<10	<20	0.37	7	86	0.14	5.89
M 7-3	171	20	<10	<20	0.36	5	65	0.19	4.83
M 8-1	63	45	<10	35	<0.1	20	65	<0.1	3.37
M 8-2	59	29	<10	33	<0.1	5	45	<0.1	1.22
M 8-3	82	22	<10	48	<0.1	2	29	<0.1	1.41
M 9-1	37	25	<10	<20	<0.1	3	22	<0.1	7.88
M 9-2	67	26	<10	<20	0.14	3	39	<0.1	10.4
M 9-3	147	34	<10	<20	0.26	5	41	0.14	6.77
M10-1	30	144	11	25	<0.1	4	54	<0.1	5.56
M10-2	42	33	<10	36	<0.1	1	17	<0.1	4.43
M10-3	271	<5	<10	62	0.34	2	98	0.11	31.8
M11-1	26	27	<10	<20	0.11	2	49	<0.1	7.92
M11-2	68	17	<10	<20	0.36	4	79	<0.1	15.6
M11-3	88	<5	<10	<20	0.47	3	94	0.21	21.3
M12-1	108	31	<10	<20	0.36	4	94	0.11	14.9
M12-2	28	<5	<10	<20	0.34	5	94	0.14	10.8
M12-3	36	<5	<10	<20	0.3	3	35	0.16	3.39
M13-1	46	32	<10	32	<0.1	3	21	<0.1	3.13
M13-2	106	38	<10	30	<0.1	<1	36	<0.1	2.58
M13-3	349	8	<10	<20	0.35	3	83	0.11	23.4
M14-1	60	34	<10	29	0.12	10	40	<0.1	3.75
M14-2	202	43	<10	<20	0.36	17	64	0.11	7.51
M14-3	34	<5	<10	<20	0.29	3	104	0.13	17.9
M15-1	47	20	<10	<20	<0.1	5	40	<0.1	12
M15-2	43	11	<10	<20	0.14	2	19	<0.1	9.35
M15-3	67	14	<10	<20	0.11	1	13	<0.1	8.96
M16-1	32	23	<10	<20	<0.1	3	41	<0.1	4.3
M16-2	24	<5	<10	<20	0.45	2	47	0.12	6.56
M16-3	47	<5	<10	<20	0.37	1	39	0.12	3.49
M17-1	59	10	<10	<20	0.17	1	23	0.19	3.87

M17-2	50	14	<10	<20	<0.1	2	23	0.18	2.81
M17-3	287	145	<10	<20	<0.1	3	74	0.25	2.28
M18-1	<5	22	<10	<20	<0.1	7	37	0.11	4.31
M18-2	25	24	<10	<20	<0.1	5	38	0.13	5.18
M18-3	36	<5	<10	<20	0.24	2	43	0.11	3.48
M19-1	35	59	<10	59	<0.1	9	29	<0.1	4.78
M19-2	70	16	<10	63	<0.1	6	49	<0.1	8.34
M19-3	35	35	<10	63	<0.1	5	55	<0.1	5.31
M20-1	47	38	<10	23	<0.1	7	111	<0.1	3.42
M20-2	47	81	<10	<20	<0.1	18	200	<0.1	3.36
M20-3	52	25	<10	<20	<0.1	7	301	0.2	2.93
M21-1	69	56	10	21	<0.1	10	42	<0.1	1.61
M21-2	57	33	<10	<20	<0.1	16	73	<0.1	1.25
M21-3	65	29	<10	<20	<0.1	10	204	<0.1	1
M22-1	36	19	<10	<20	0.13	5	59	<0.1	0.96
M22-2	56	15	<10	<20	<0.1	5	75	<0.1	0.63
M22-3	67	11	<10	<20	<0.1	5	108	<0.1	0.52
M23-1	30	75	<10	35	<0.1	2	32	<0.1	3.05
M23-2	74	50	<10	<20	0.24	2	31	<0.1	8.71
M23-3	146	7	<10	<20	0.36	2	73	0.12	22.3
M24-1	24	139	16	26	<0.1	17	15	<0.1	0.68
M24-2	8	12	<10	<20	<0.1	3	13	<0.1	0.83
M24-3	<5	11	<10	<20	<0.1	1	4	<0.1	1.17
M25-1	42	402	<10	45	<0.1	2	8	<0.1	2.46
M25-2	28	47	<10	33	<0.1	1	9	<0.1	2.58
M25-3	<5	17	<10	<20	<0.1	2	3	<0.1	0.73
M26-1	30	689	24	66	<0.1	<1	12	<0.1	2.55
M26-2	14	39	15	<20	<0.1	2	5	<0.1	2.89
M26-3	30	65	<10	47	0.12	3	<3	<0.1	1.31
M27-1	11	18	10	29	<0.1	2	11	<0.1	2.89
M27-2	10	17	<10	26	<0.1	1	5	<0.1	2.96
M27-3	28	15	<10	58	<0.1	1	<3	<0.1	1.41
M28-1	13	100	13	39	<0.1	2	9	<0.1	2.27
M28-2	<5	256	14	42	<0.1	1	9	<0.1	0.81
M28-3	<5	13	<10	21	<0.1	2	5	<0.1	1.02
M29-1	7	465	14	20	<0.1	3	27	<0.1	3.85
M29-2	12	61	11	27	<0.1	3	13	<0.1	5.73
M29-3	64	18	16	35	0.16	4	5	<0.1	13
M30-1	10	63	13	37	<0.1	2	17	<0.1	3.13
M30-2	10	86	12	32	<0.1	2	15	<0.1	2.02
M30-3	13	64	12	36	<0.1	6	21	<0.1	2.22
DUP-M 1-1	42	50	21	48	<0.1	3	18	<0.1	1.65
DUP-M 5-3	<5	18	<10	23	<0.1	2	32	<0.1	2
DUP-M 9-3	129	38	<10	<20	0.2	7	45	<0.1	6.35
DUP-M13-3	344	8	<10	<20	0.37	3	86	0.12	26.4
DUP-M17-3	329	157	<10	<20	0.12	3	84	0.26	2.47
DUP-M21-3	66	26	<10	<20	<0.1	11	193	<0.1	0.99
DUP-M25-3	<5	14	<10	23	<0.1	1	<3	<0.1	0.78
DUP-M29-3	72	14	10	42	0.13	5	3	<0.1	12

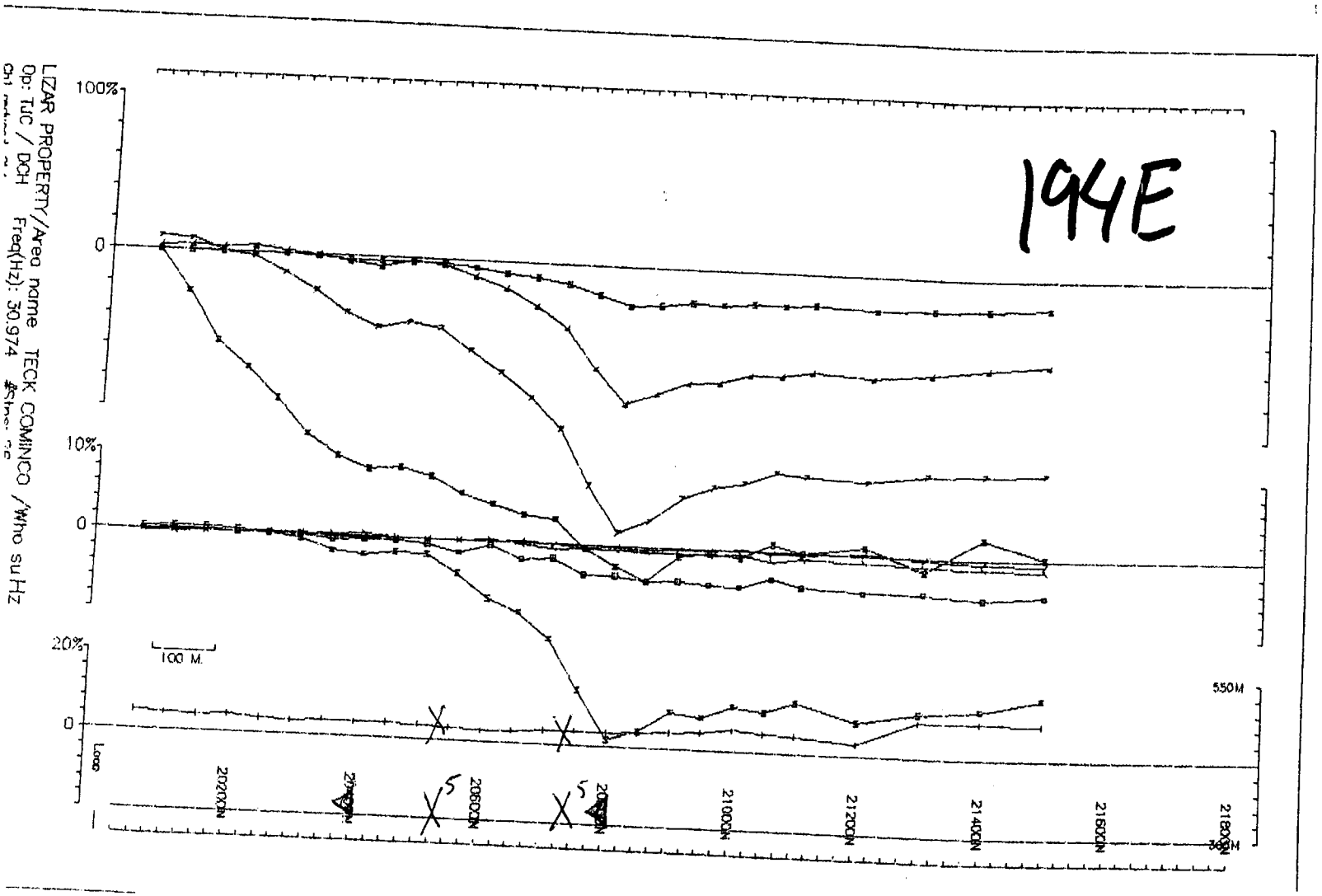
APPENDIX VI



Interpretation of conductors (X) and resistive contacts

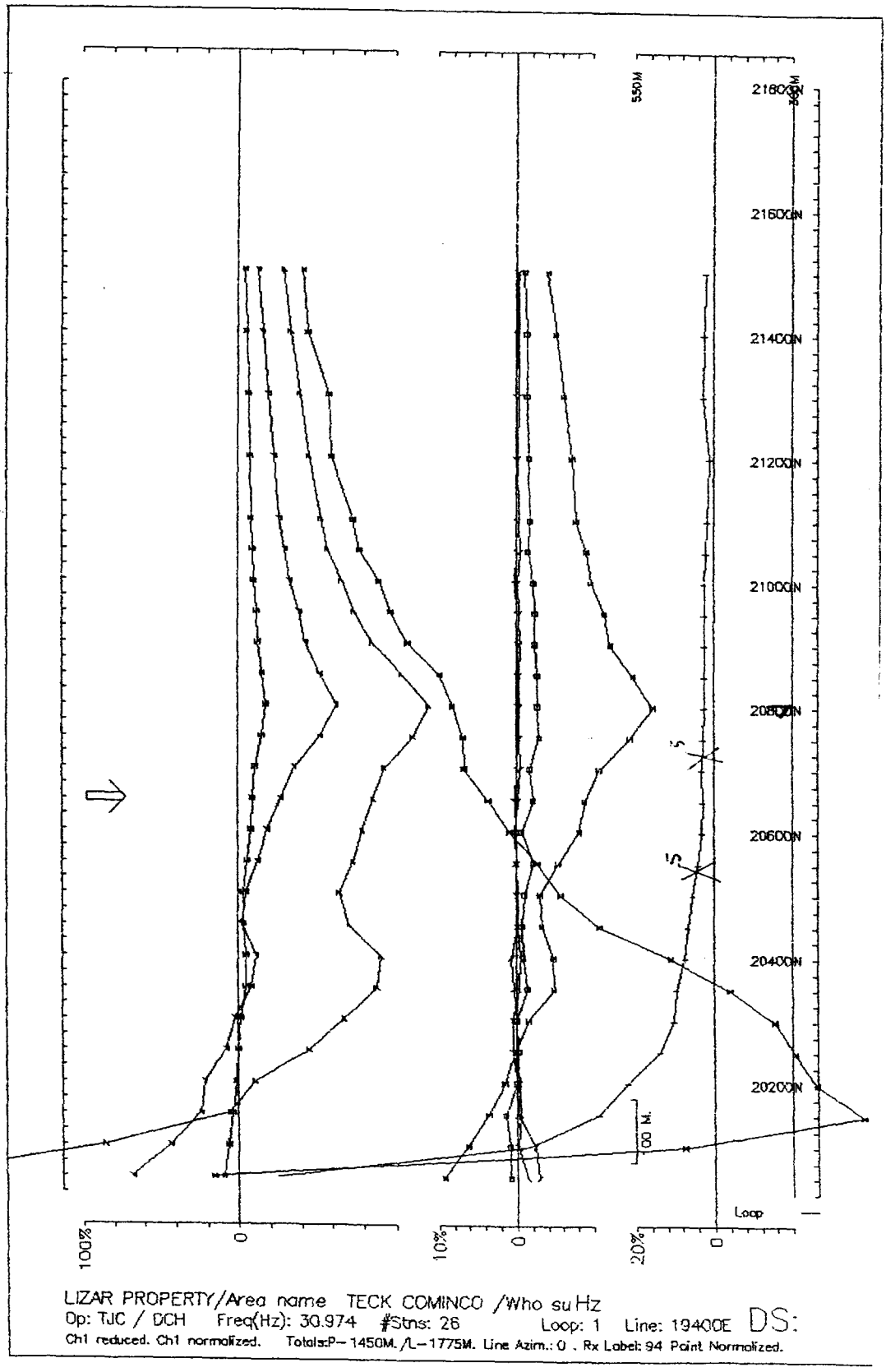

5409000 mN
5409500 mN
5410000 mN
5410500 mN
5411000 mN
5411500 mN
5412000 mN
5412500 mN
674000 mE
674500 mE
675000 mE
675500 mE
676000 mE
676500 mE
677000 mE
Nad 83 Zone 16
BL 20000
21700
21500
TL 19000
Line 19400
Line 20000
Line 21000
202
204
206
208
2003 UTM
Loop 1
1

Loop 1

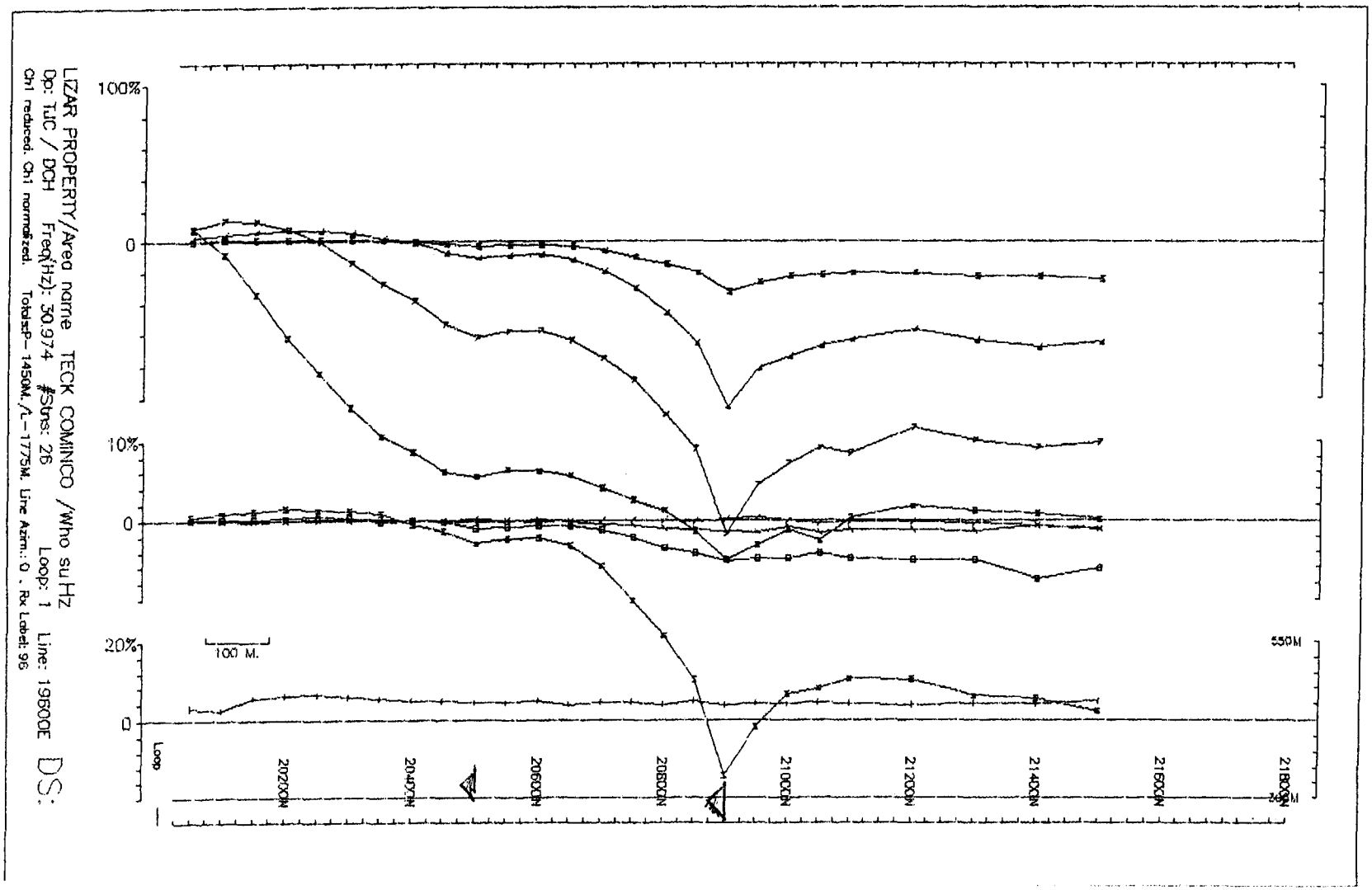


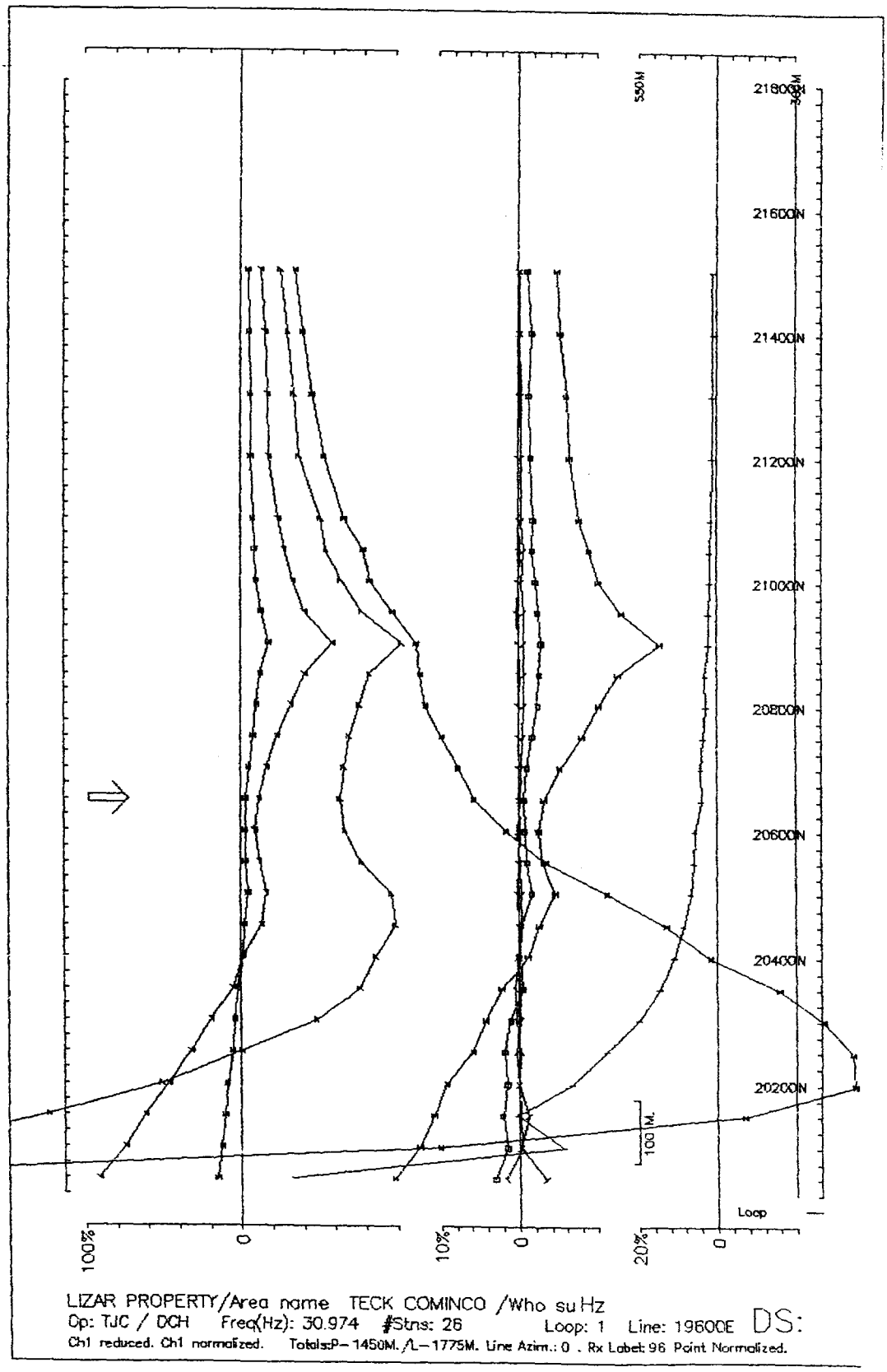
194E

194E

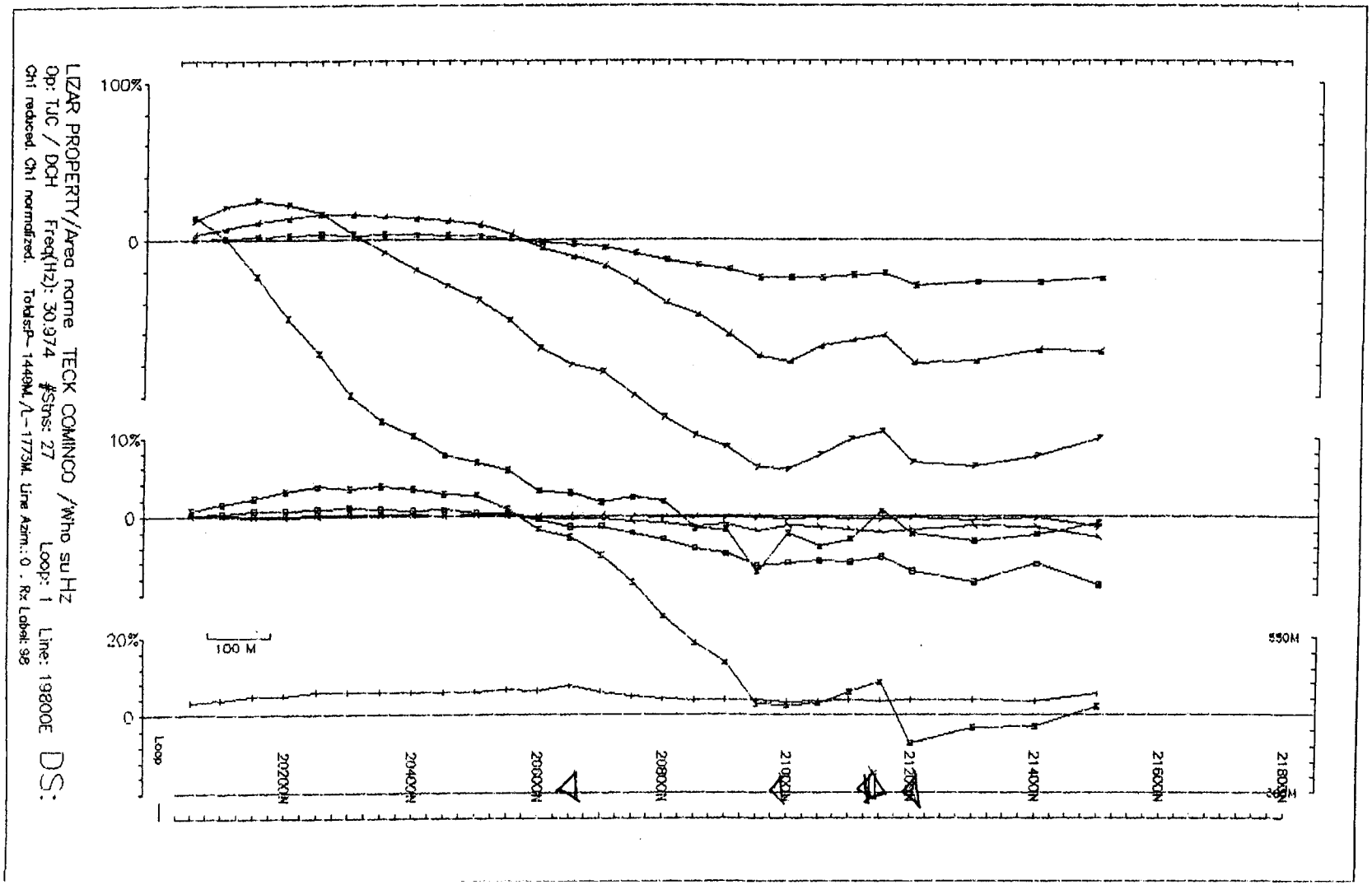

550M
2160
2160
2140
2120
2100
2080
2060
2040
2020
100%
0
10%
0
20%
0
Loop
LIZAR PROPERTY/Area name TECK COMINCO /Who su Hz
Op: TJC / DCH Freq(Hz): 30.974 #Stns: 26 Loop: 1 Line: 19400E DS:
Ch1 reduced. Ch1 normalized. Totals:P-1450M./L-1775M. Line Azim.: 0 . Rx Label: 94 Point Normalized.

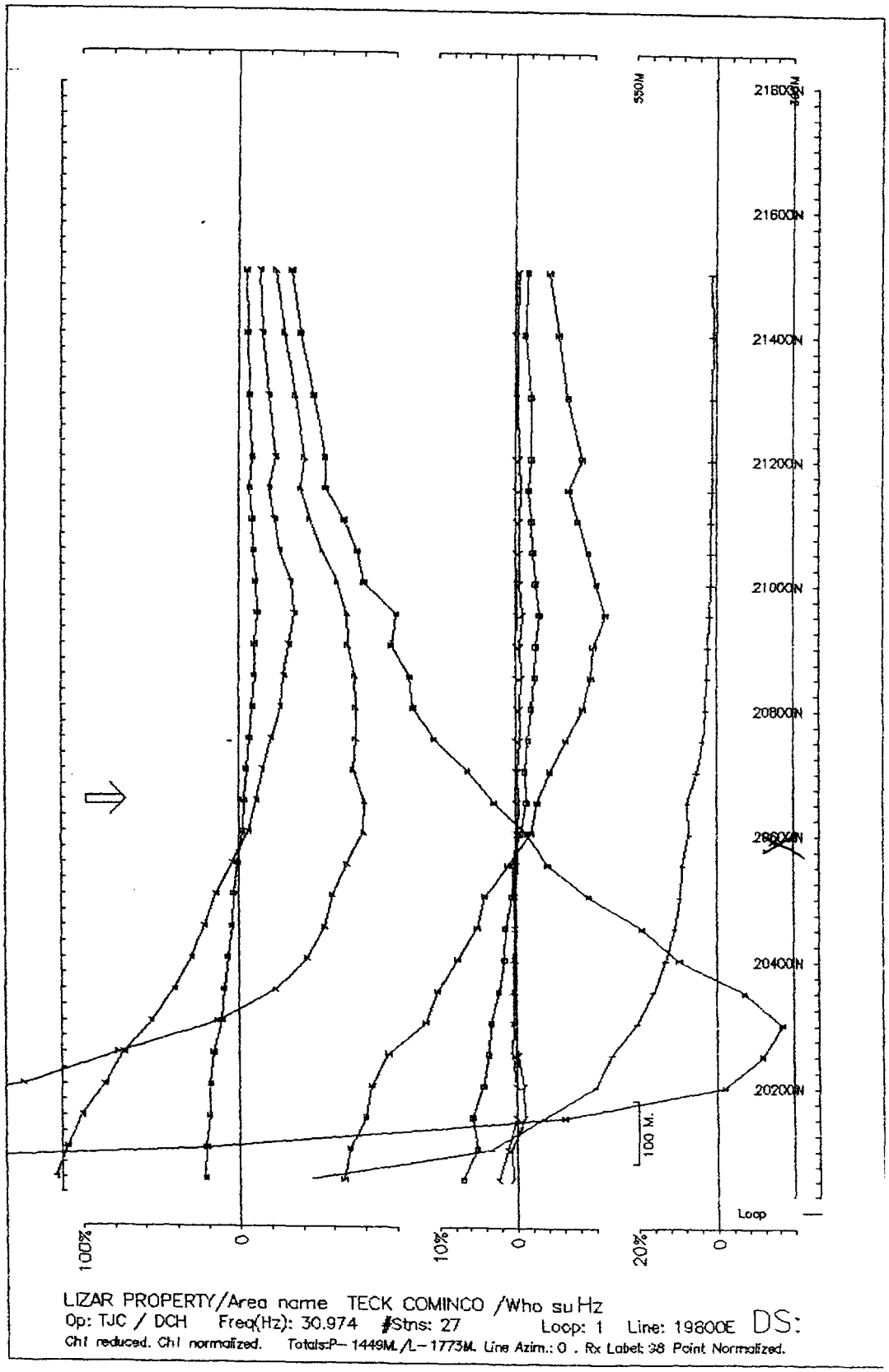
Loop 1


LIZAR PROPERTY/Area name TECK COMINCO /Who su Hz
Dp: TJC / DCH Freq(Hz): 30.974 #Stns: 26 Loop: 1 Line: 19600E
Ch1 reduced. Ch1 normalized. TotalsP= 1450M./L= 1775M. Line Azim.: 0 . Rx Label: 96
100%
0
10%
0
20%
0
100 M.
550M
Loop
2020XN
2040XN
2060XN
2080XN
2100XN
2120XN
2140XN
2160XN
2180XN
E


550M
300M
100M.
Loop
100%
0
10%
0
20%
0
21800N
21600N
21400N
21200N
21000N
20800N
20600N
20400N
20200N
LIZAR PROPERTY/Area name TECK COMINCO /Who su Hz
Op: TJC / DCH Freq(Hz): 30.974 #Stns: 26 Loop: 1 Line: 19600E DS:
Ch1 reduced. Ch1 normalized. Totals:P-1450M./L-1775M. Line Azim.: 0 . Rx Label: 96 Point Normalized.

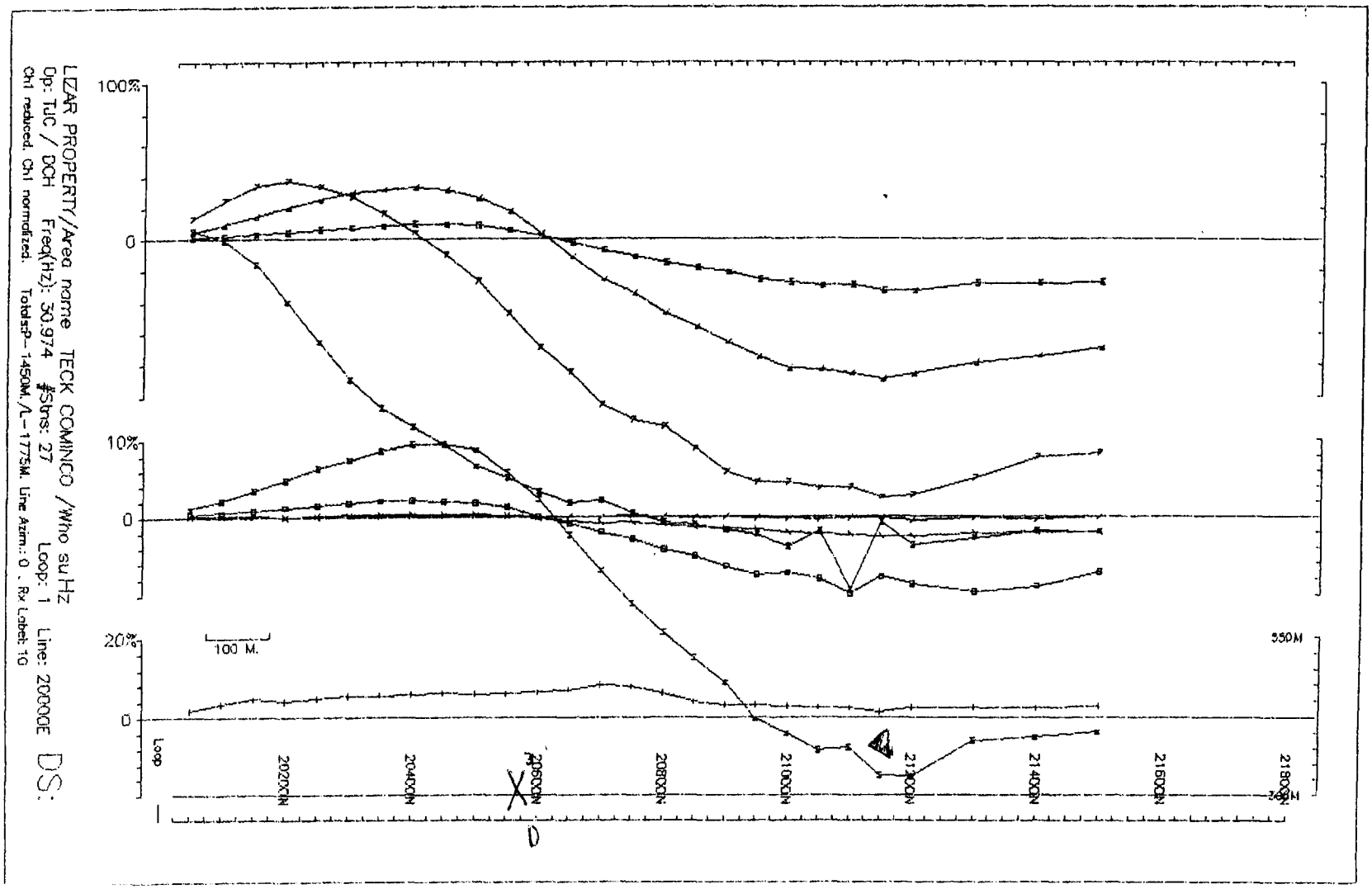
Loop 1

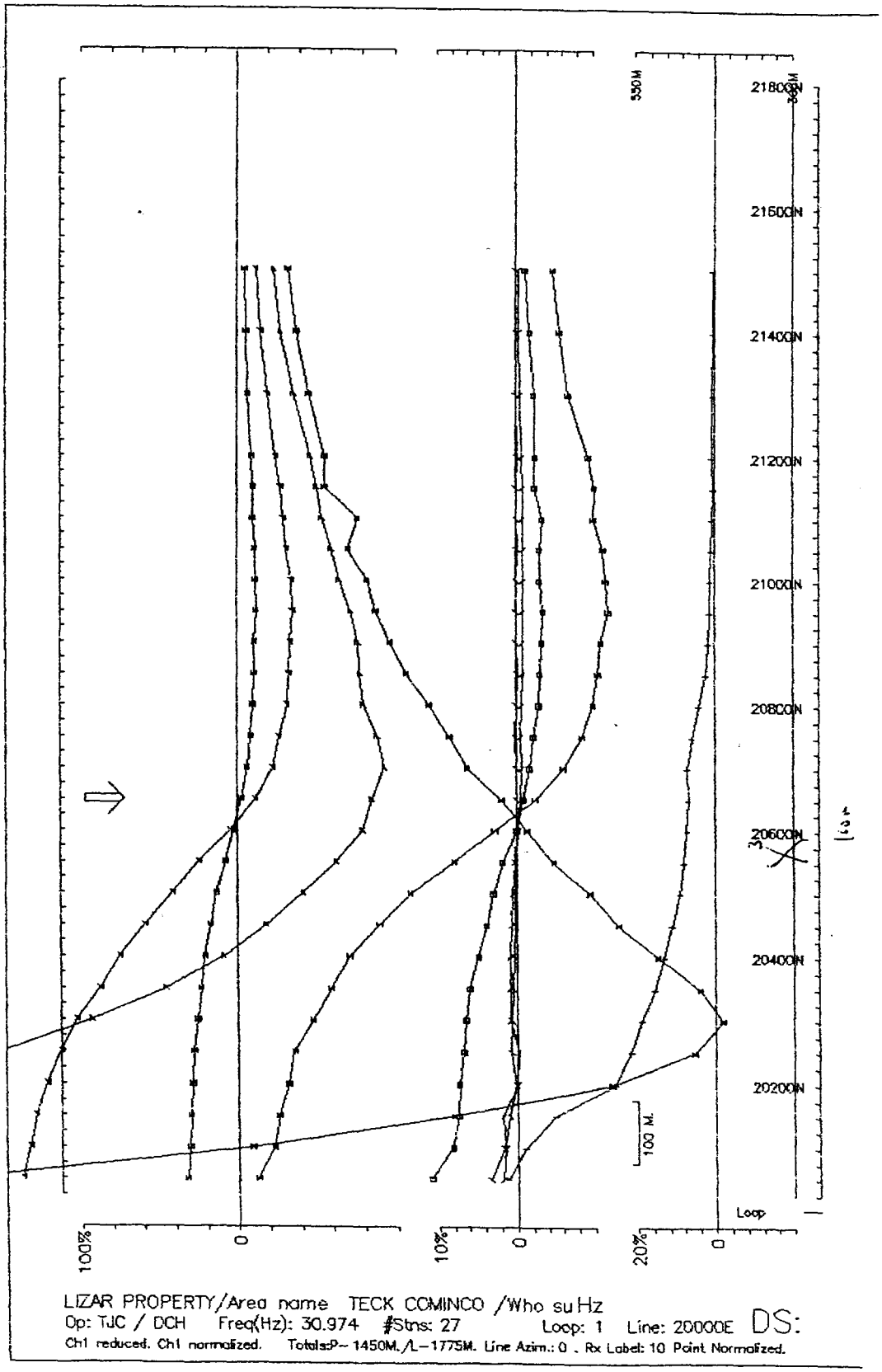

LIZAR PROPERTY/Area name TECK COMINCO /Who su Hz
Op: TJC / DCH Freq(Hz): 30.974 #Stns: 27 Loop: 1 Line: 19800E DS:
Ch1 reduced. Ch1 normalized. TotalsP- 1449M, L- 1773M. Line Azim.: 0 . Rx Label: 98
100%
0
10%
0
20%
0
100 M
550M
Loop
20200N
20400N
20600N
20800N
21000N
21200N
21400N
21600N
21800N


550M
350M
21800N
21600N
21400N
21200N
21000N
20800N
20600N
20400N
20200N
100 M.
Loop
100%
0
10%
0
20%
0
LIZAR PROPERTY/Area name TECK COMINCO /Who su Hz
Op: TJC / DCH Freq(Hz): 30.974 #Stns: 27 Loop: 1 Line: 19800E DS:
Chi reduced. Chi normalized. Totals:P-1449M./L-1773M. Line Azim.: 0 . Rx Label: 38 Point Normalized.

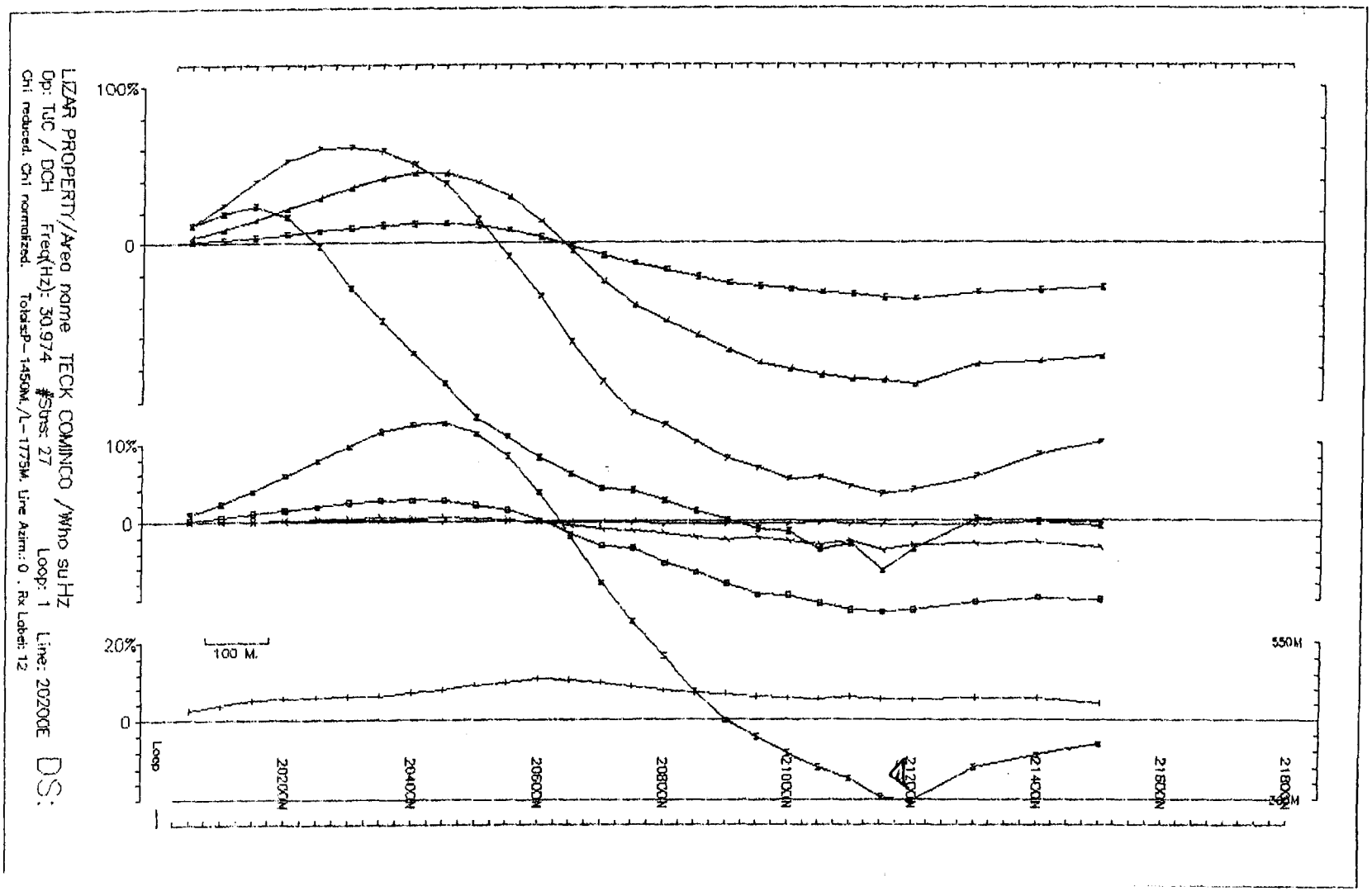
Loop 1

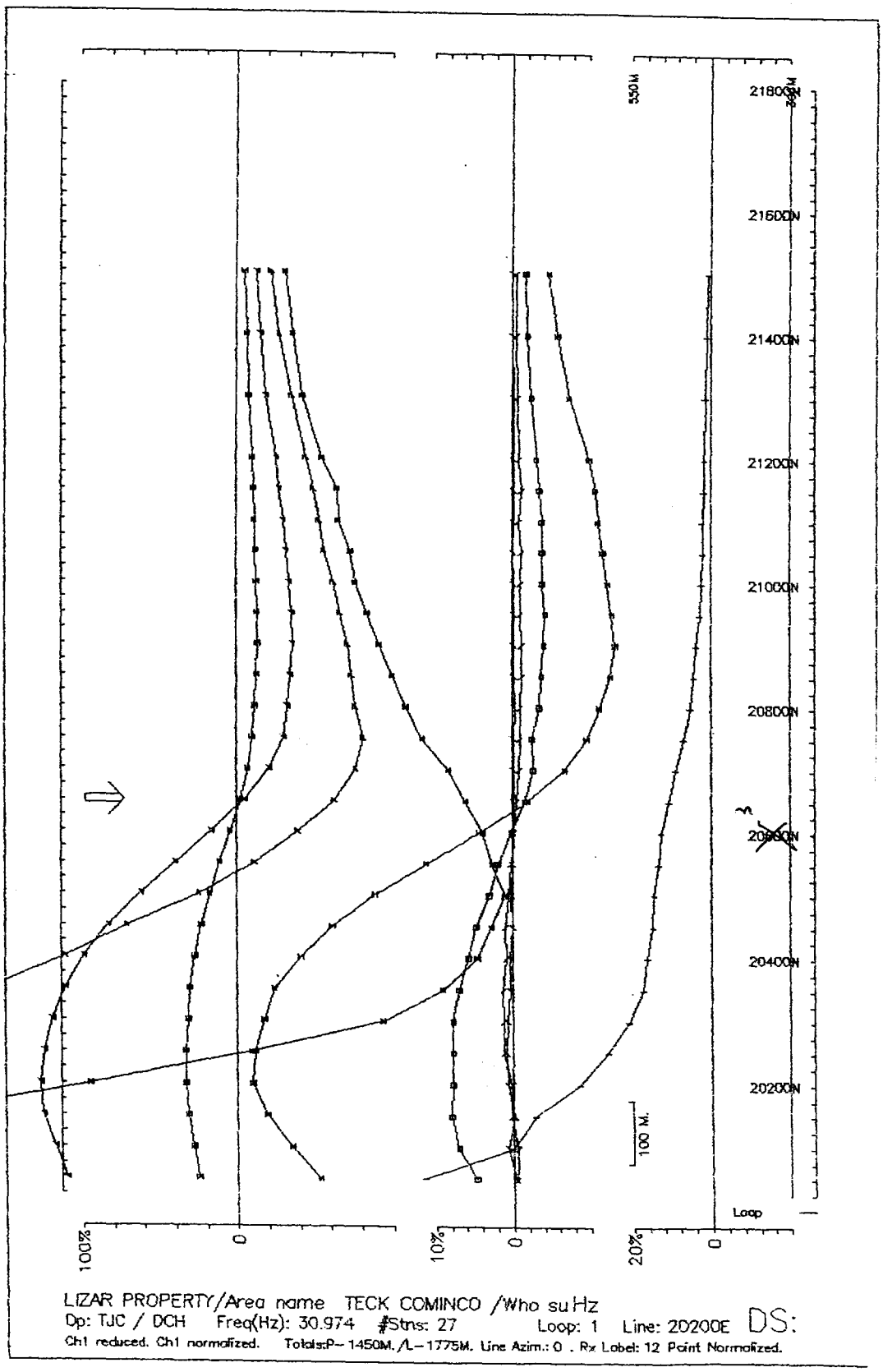
nice ½ open loop
⇒ homogeneous body
Mod. Conds




550M
100 M.
Loop
100%
0
10%
0
20%
0
LIZAR PROPERTY/Area name TECK COMINCO /Who su Hz
Op: TJC / DCH Freq(Hz): 30.974 #Stns: 27 Loop: 1 Line: 20000E DS:
Ch1 reduced. Ch1 normalized. Totals:P-- 1450M./L-- 1775M. Line Azim.: 0 . Rx Label: 10 Point Normalized.

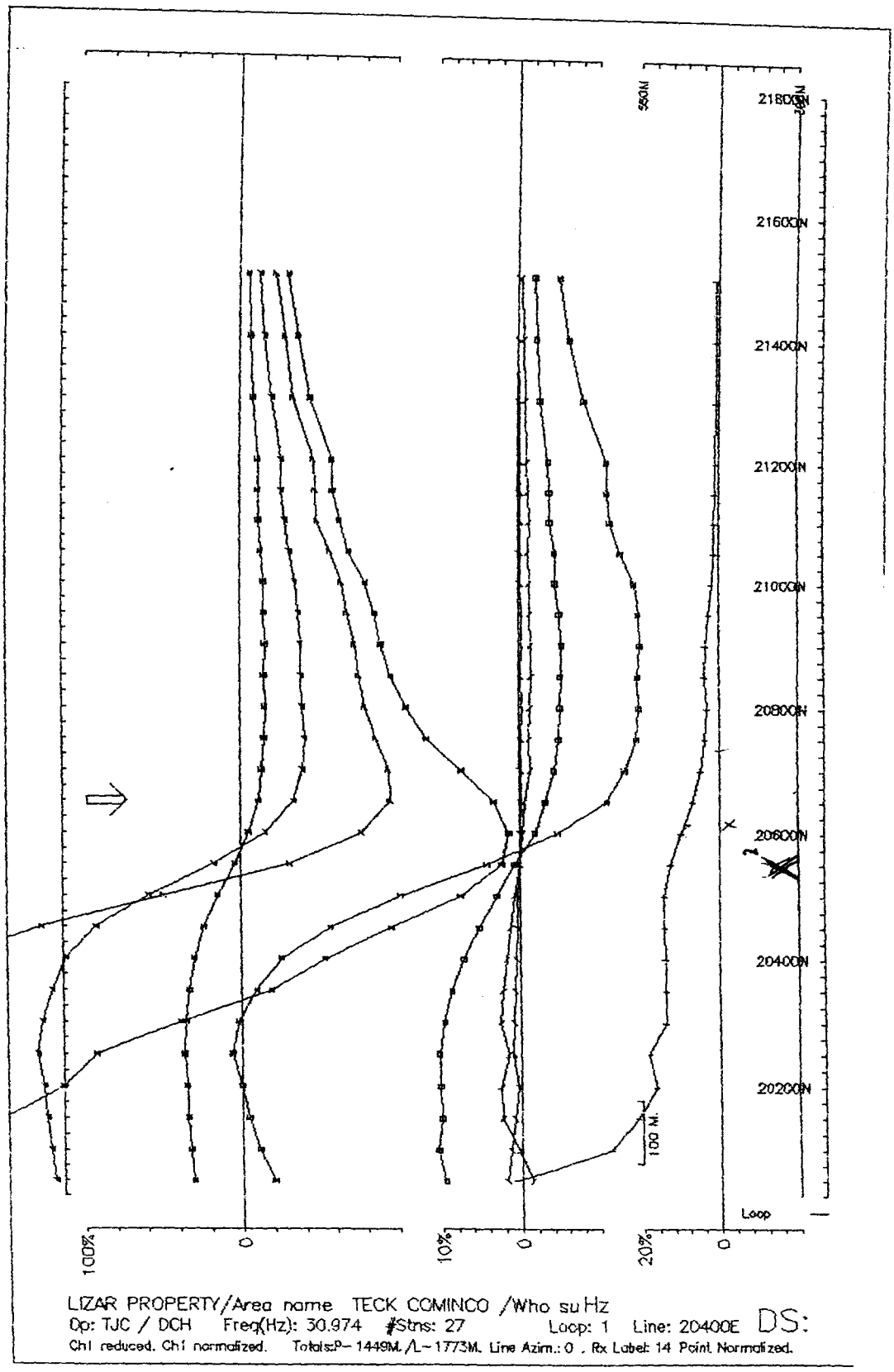
Loop 1


LIZAR PROPERTY/Area name TECK COMINCO /Who su Hz
Op: TJC / DCH Freq(Hz): 30.974 #Stns: 27 Loop: 1 Line: 20200E
Chi reduced. Chi normalized. TotalsP-1450M, /L-1775M. Line Azim.: 0 . Rx Label: 12
100%
0
10%
0
20%
0
100 M.
550M
Loop
20200N
20400N
20600N
20800N
21000N
21200N
21400N
21600N
21800N

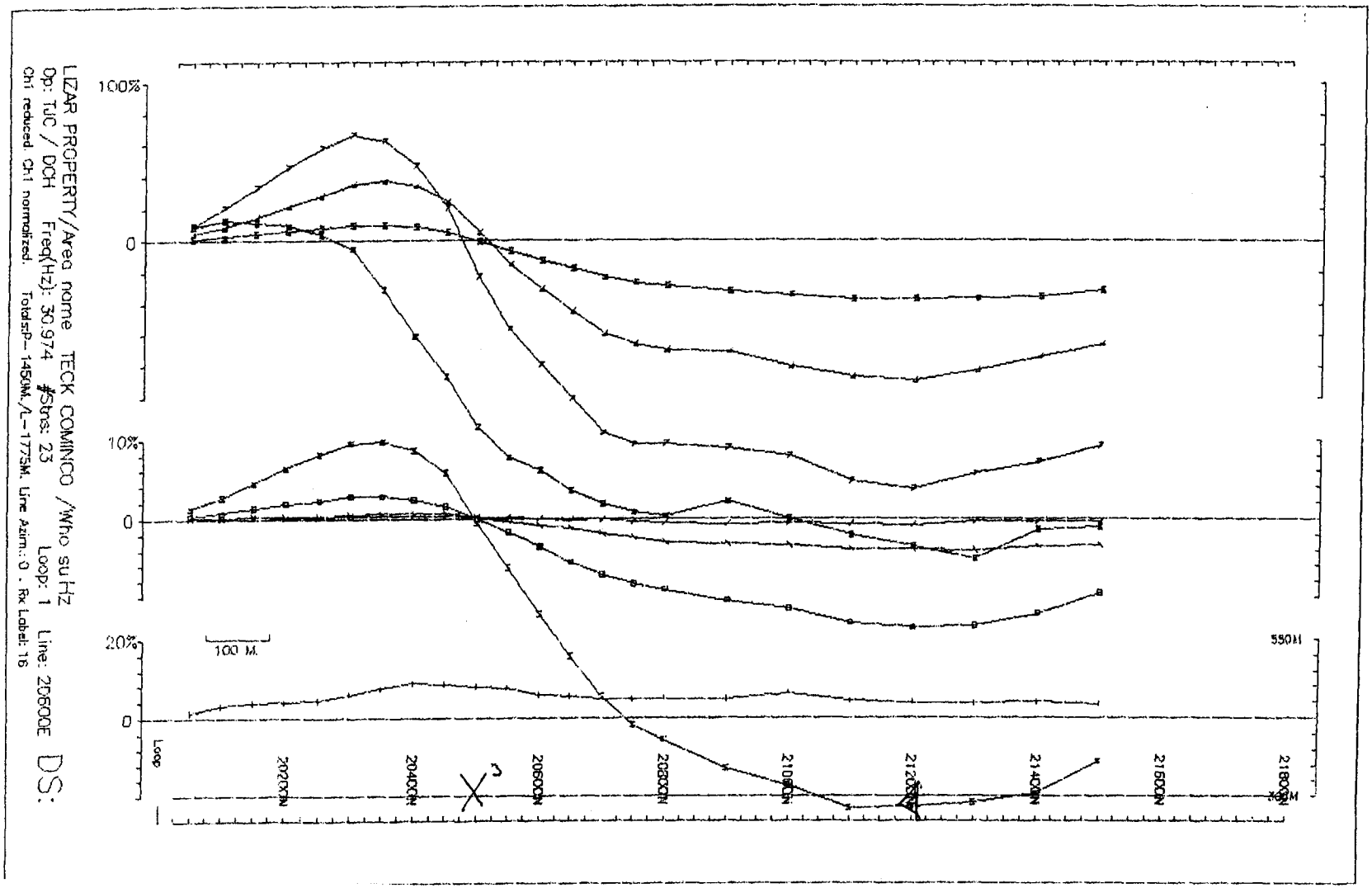

550M
21800N
21600N
21400N
21200N
21000N
20800N
20600N
20400N
20200N
100 M.
Loop
100%
0
10%
0
20%
0
LIZAR PROPERTY/Area name TECK COMINCO /Who su Hz
Dp: TJC / DCH Freq(Hz): 30.974 #Stns: 27 Loop: 1 Line: 20200E DS:
Ch1 reduced. Ch1 normalized. Totals:P-1450M./L-1775M. Line Azim.: 0 . Rx Label: 12 Point Normalized.

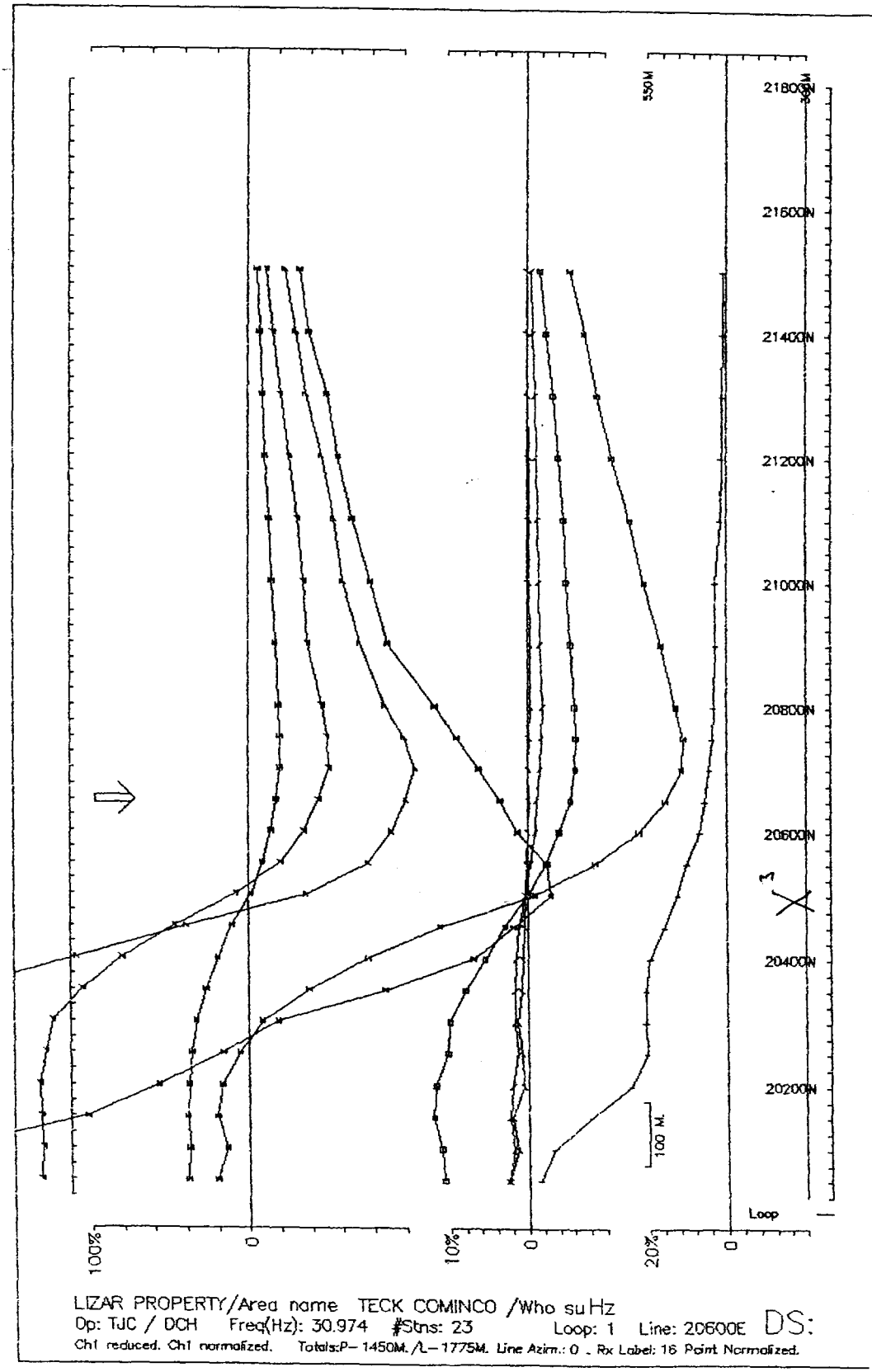
Loop 1

LIZAR PROPERTY/Area name TECK COMINCO /Who su Hz
Op: TJC / DCH Freq(Hz): 30.974 #Strs: 27 Loop: 1 Line: 20400E DS:
Ch1 reduced. Ch1 normalized. Total:sF- 1449M./L- 1773M. Line Azim.: 0 . Rx Label: 14
100%
0
10%
0
20%
0
100 M.
550M
Loop
20200N
20400N
20600N
20800N
21000N
21200N
21400N
21600N
21800N


550N
218000N
216000N
214000N
212000N
210000N
208000N
206000N
204000N
202000N
100 M.
Loop
100%
0
10%
0
20%
0
LIZAR PROPERTY/Area name TECK COMINCO /Who su Hz
Op: TJC / DCH Freq(Hz): 30.974 #Stns: 27 Loop: 1 Line: 20400E DS:
Chi reduced. Chi normalized. Totals:P- 1449M./L- 1773M. Line Azim.: 0 . Rx Label: 14 Point Normalized.

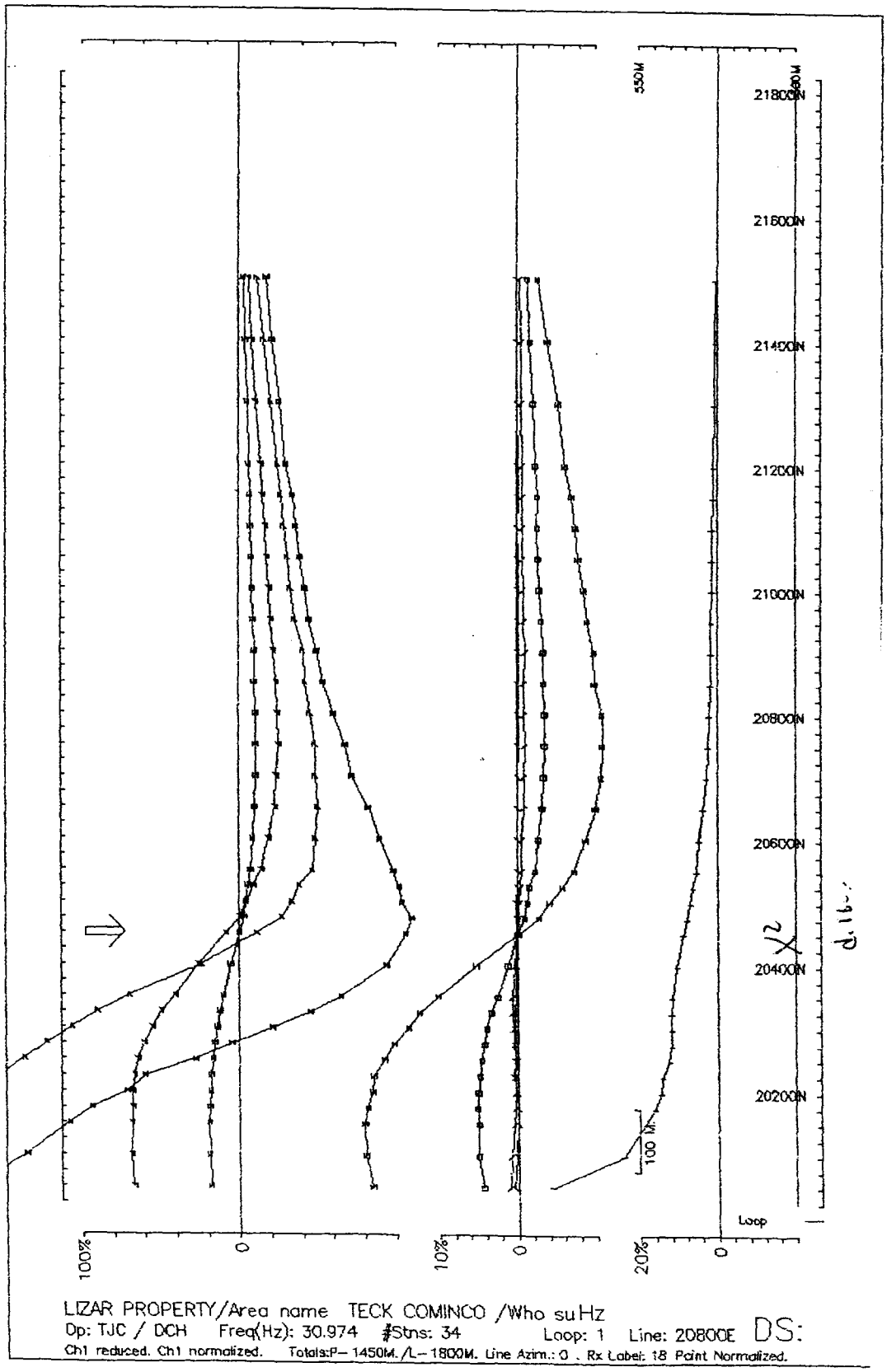
Loop 1

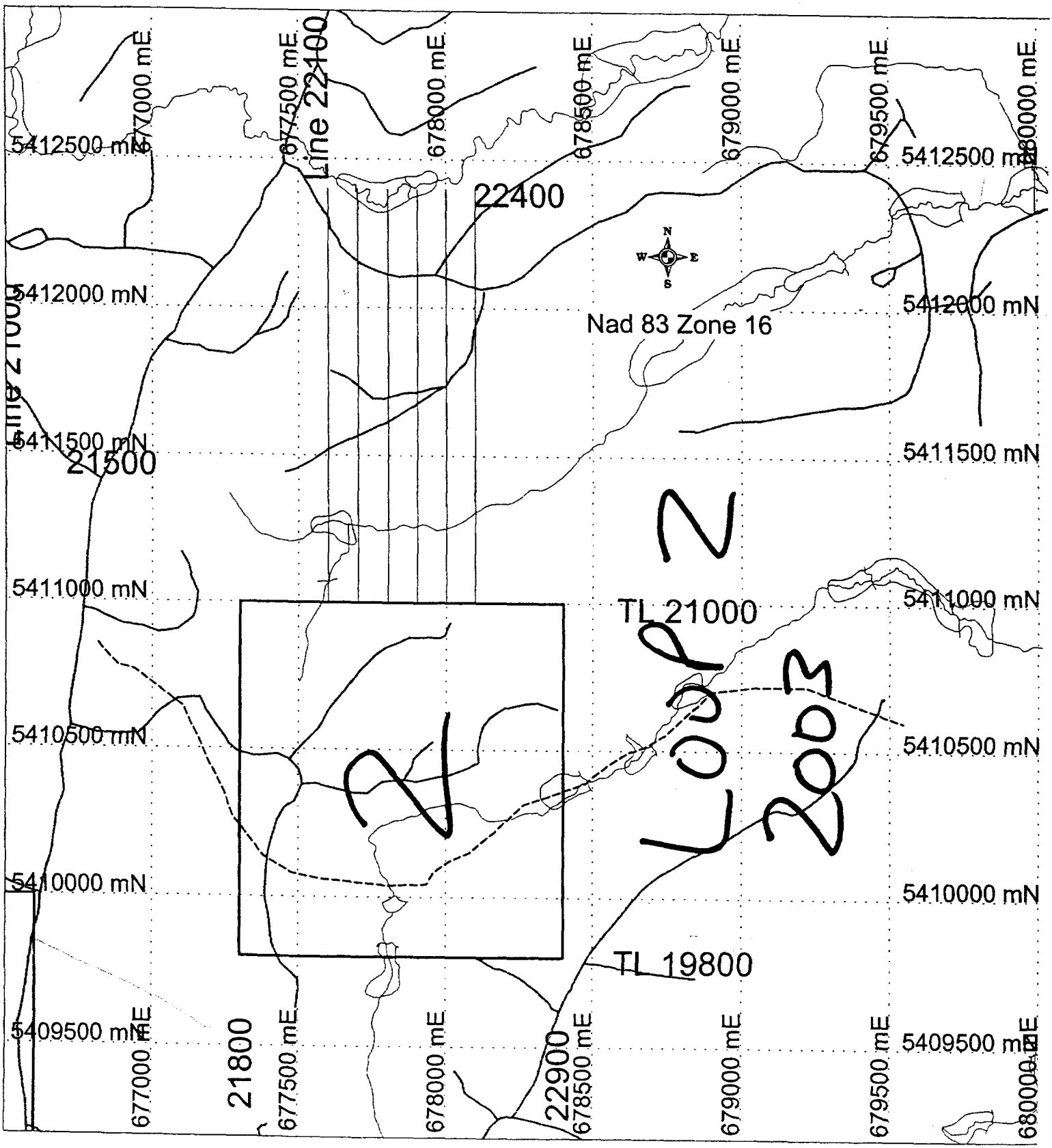

LIZAR PROPERTY/Area name TECK COMINCO /Who su Hz
Op: TJC / DCH Freq(Hz): 30.974 #Stns: 23 Loop: 1 Line: 20600E DS:
Chi reduced. Chi normalized. TotalsP- 1450M./L- 1775M. Line Azim.: 0 . Rx Label: 16
100%
0
10%
0
20%
0
100 M.
550M
Loop
20200N
20400N
20600N
20800N
21000N
21200N
21400N
21600N
21800N


550M
300M
21800N
21600N
21400N
21200N
21000N
20800N
20600N
20400N
20200N
100 ML
Loop
100%
0
10%
0
20%
0
LIZAR PROPERTY/Area name TECK COMINCO /Who su Hz
Op: TJC / DCH Freq(Hz): 30.974 #Stns: 23 Loop: 1 Line: 20600E DS:
Ch1 reduced. Ch1 normalized. Totals:P-1450M./L-1775M. Line Azim.: 0 . Rx Label: 16 Point Normalized.

Loop 1

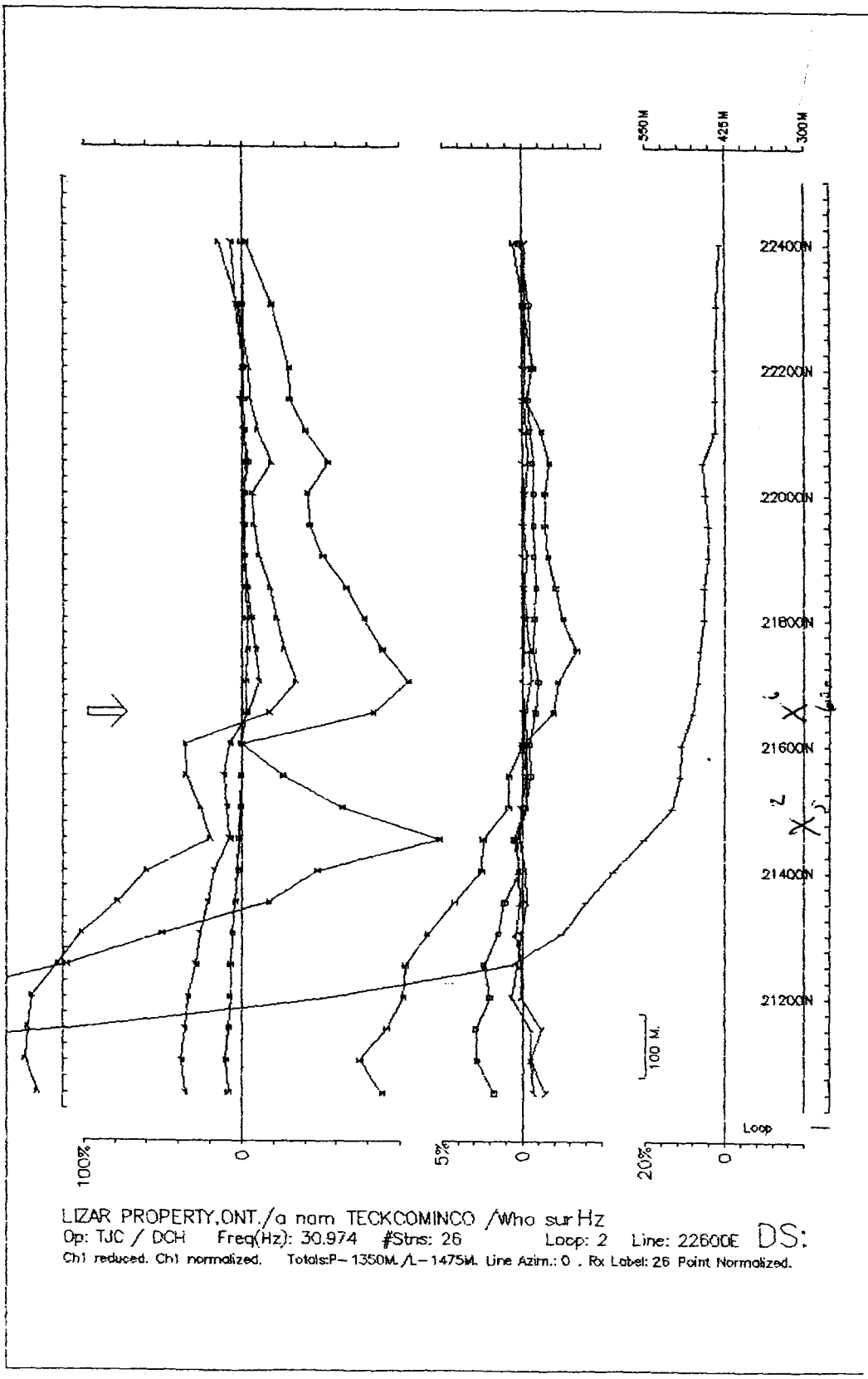
LIZAR PROPERTY/Area name TECK COMINCO /Who su Hz
Op: TJC / DCH Freq(Hz): 30.974 #Stns: 34 Loop: 1 Line: 20800E
Ch1 reduced. Ch1 normalized. Totals:P-1450M,/L-1800M, Line Azim.: 0 , Rx Label: 18
100%
0
10%
0
20%
0
100 M.
Loop
2020
2040
2060
2080
2100
2120
2140
2160
2180
550M
600M


550M
21800N
21600N
21400N
21200N
21000N
20800N
20600N
20400N
20200N
100 M
Loop
100%
0
10%
0
20%
0
LIZAR PROPERTY/Area name TECK COMINCO /Who suHz
Op: TJC / DCH Freq(Hz): 30.974 #Stns: 34 Loop: 1 Line: 20800E DS:
Ch1 reduced. Ch1 normalized. Totals:P-1450M./L-1800M. Line Azim.: 0 . Rx Label: 18 Point Normalized.


Line 22400
22400
Line 21000
21500
21800
22900
677000 mE
677500 mE
678000 mE
678500 mE
679000 mE
679500 mE
680000 mE
5412500 mN
5412000 mN
5411500 mN
5411000 mN
5410500 mN
5410000 mN
5409500 mN
N
W
E
S
Nad 83 Zone 16
TL 21000
TL 19800
LOOP 2
2003

Loop 2

LIZAR PROPERTY,ONT./a norm TECKCOMINCO /Who sur Hz
Op: TJC / DCH Freq(Hz): 30.974 #Stns: 26 Loop: 2 Line: 22600E
Ch1 reduced. Ch1 normalized. TotalsP- 1350M./L- 1475M. Line Azim.: 0 . Rx Label: 26
DS:
100%
0
5%
0
20%
100 M
0
Loop
550 M
425 M
300 M
21200N
21400N
21600N
21800N
22000N
22200N
22400N



LIZAR PROPERTY,ONT./a nam TECKCOMINCO /Who sur Hz

Op: TJC / DCH Freq(Hz): 30.974 #Stns: 26 Loop: 2 Line: 22600E DS:

Ch1 reduced. Ch1 normalized. Totals:P-1350M./L-1475M. Line Azim.: 0 . Rx Label: 26 Point Normalized.

Loop 2

LIZAR PROPERTY.DNT /a nam TECKCOMINCO /Whc sur Hz
Op: TJC / DCH Freq(Hz): 30.974 #Stns: 25 Loop: 2 Line: 22500E
Ch1 reduced. Ch1 normalized. Totals:P-1350M /L-1475M. Line Azm.: 0 . Fix Label: 25
100%
0
5%
0
20%
0
100 M.
Loop
212000N
214000N
216000N
218000N
220000N
222000N
224000N
550 M
425 M
300 M

LIZAR PROPERTY,ONT./a nom TECKCOMINCO /Who sur Hz
Dp: TJC / DCH Freq(Hz): 30.974 #Stns: 25 Loop: 2 Line: 22500E DS:
Ch1 reduced. Ch1 normalized. TotalsP-1350M,/L-1475M. Line Azim.: 0 . Rx Label: 25 Point Normalized.
100%
0
5%
0
20%
0
100 M.
Loop
550 M
425 M
300 M
21200N
21400N
21600N
21800N
22000N
22200N
22400N

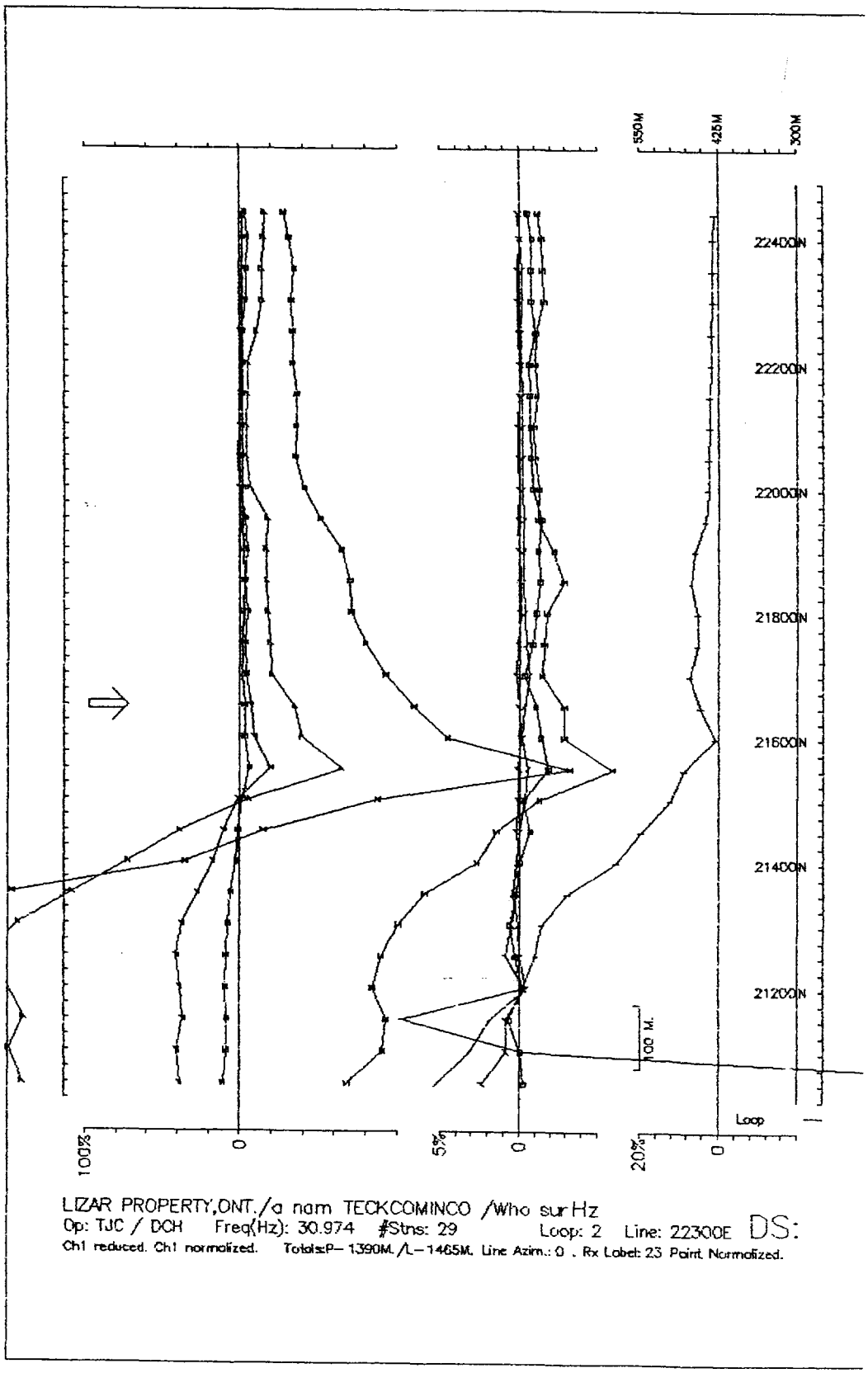
Loop 2

LIZAR PROPERTY,ONT./a nom TECKCOMINCO /Who sur Hz
Op: TJC / DCH Freq(Hz): 30.974 #Stns: 29 Loop: 2 Line: 22400E
Ch1 reduced. Ch1 normalized. TotalsP- 1390M./L- 1465M. Line Azim.: 0 . Rx Label: 24
100%
0
5%
0
20%
0
100 M.
Loop
21200N
21400N
21600N
21800N
22000N
22200N
22400N
550M
428M
300M

LIZAR PROPERTY,ONT./a nam TECKCOMINCO /Who sur Hz
Op: TJC / DCH Freq(Hz): 30.974 #Stns: 29 Loop: 2 Line: 22400E DS:
Ch1 reduced. Ch1 normalized. Totals:P- 1390M./L- 1465M. Line Azim.: 0 . Rx Label: 24 Point Normalized.
100%
0
5%
0
20%
0
100 M.
Loop
21200N
21400N
21600N
21800N
22000N
22200N
22400N
550M
428M
300M

Loop 2

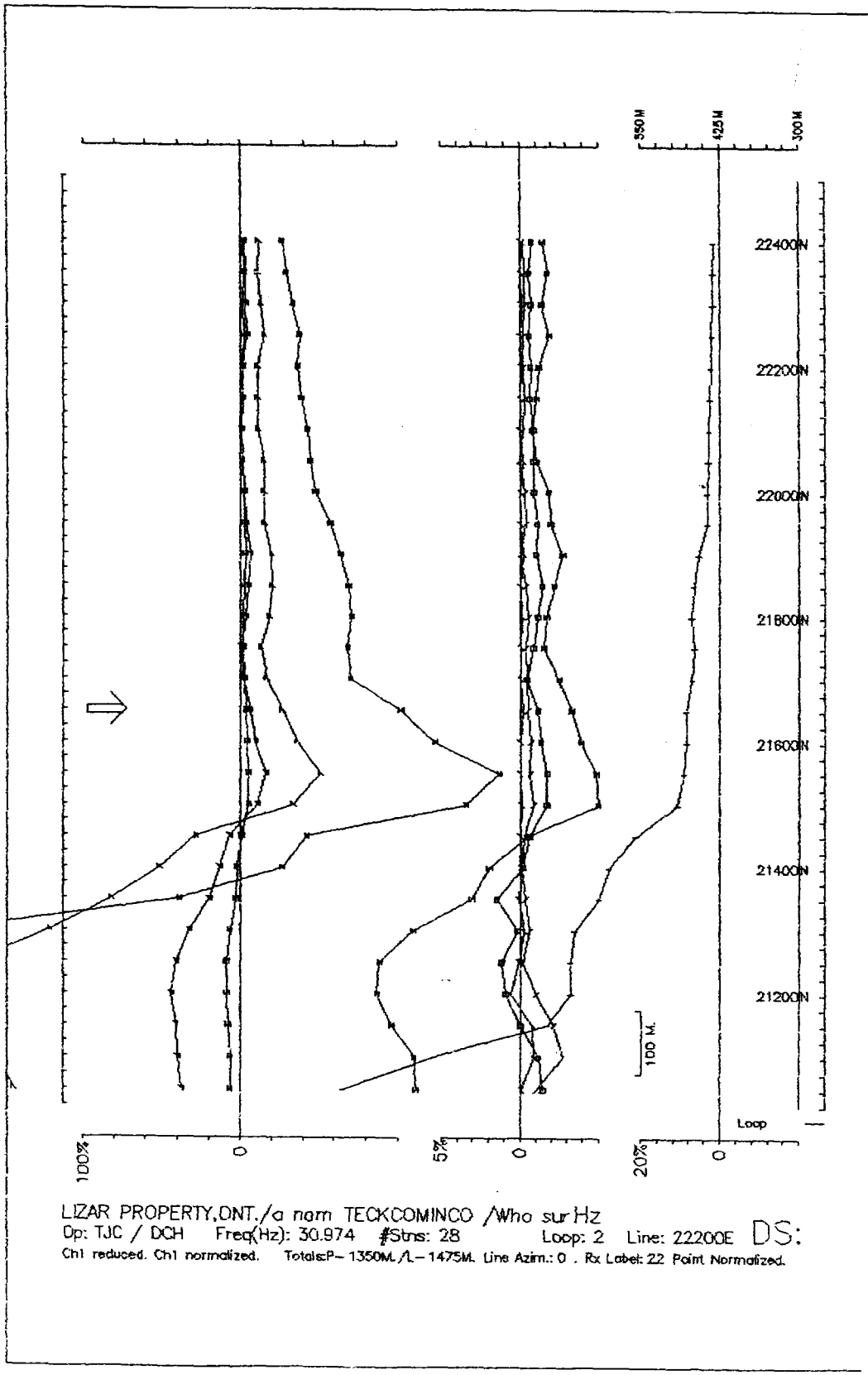
LIZAR PROPERTY,ONT./a nam TECKCOMINCO /Mno sur Hz
Op: TJC / DCH Freq(Hz): 30.974 #Strns: 29 Loop: 2 Line: 22300E
Chi reduced. Chi normalized. Totals:P-1390M,/L-1465M. Line Azim.: 0 . Rx Label: 23
DS:
100%
0
5%
0
20%
0
100 M.
Loop
550M
425M
300M
21200N
21400N
21600N
21800N
22000N
22200N
22400N



LIZAR PROPERTY,ONT./a nam TECKCOMINCO /Who sur Hz
Op: TJC / DCH Freq(Hz): 30.974 #Stns: 29 Loop: 2 Line: 22300E DS:
Ch1 reduced. Ch1 normalized. Totals:P- 1390M./L-1465M. Line Azim.: 0 . Rx Label: 23 Point Normalized.

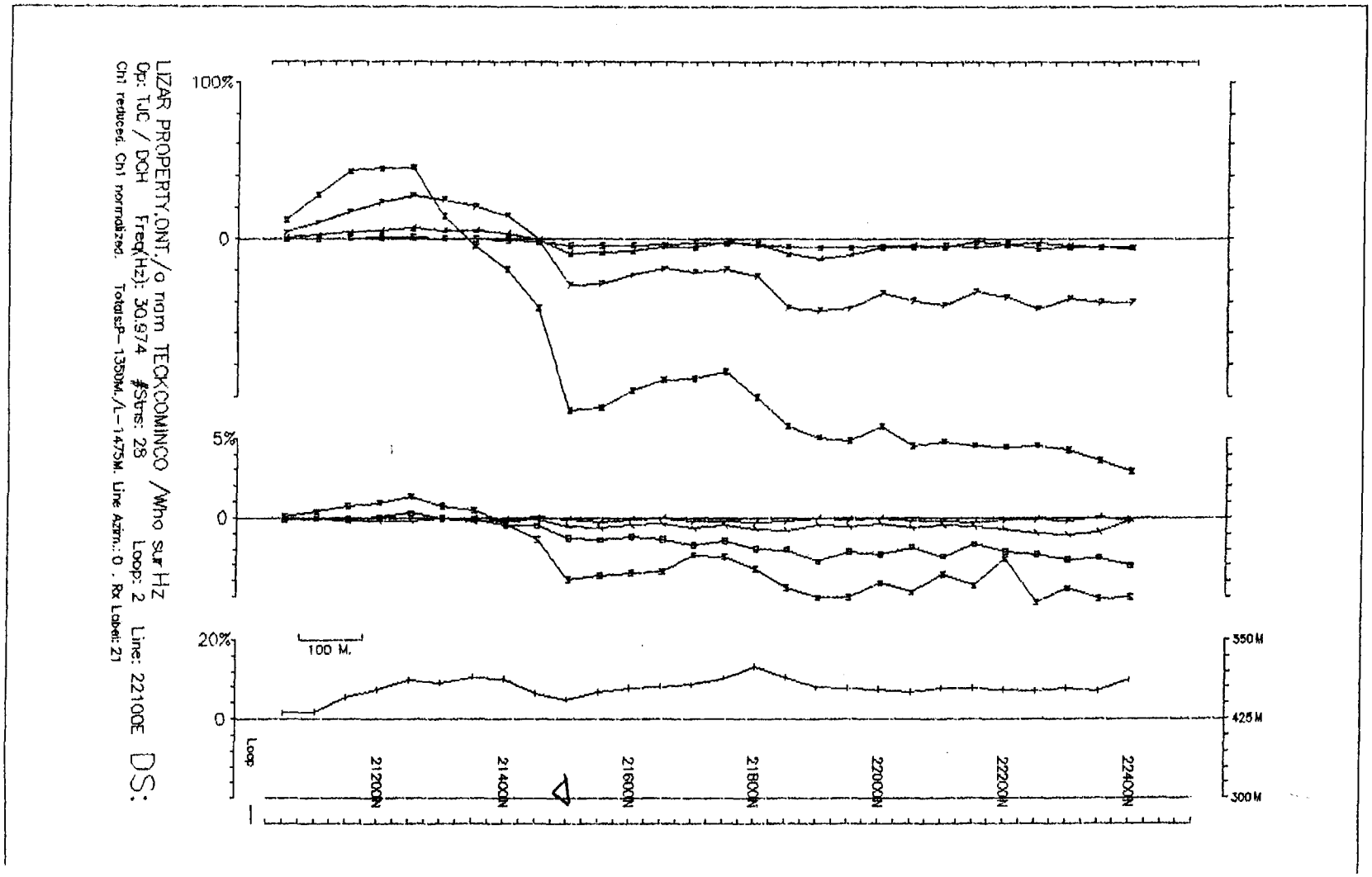
Loop 2

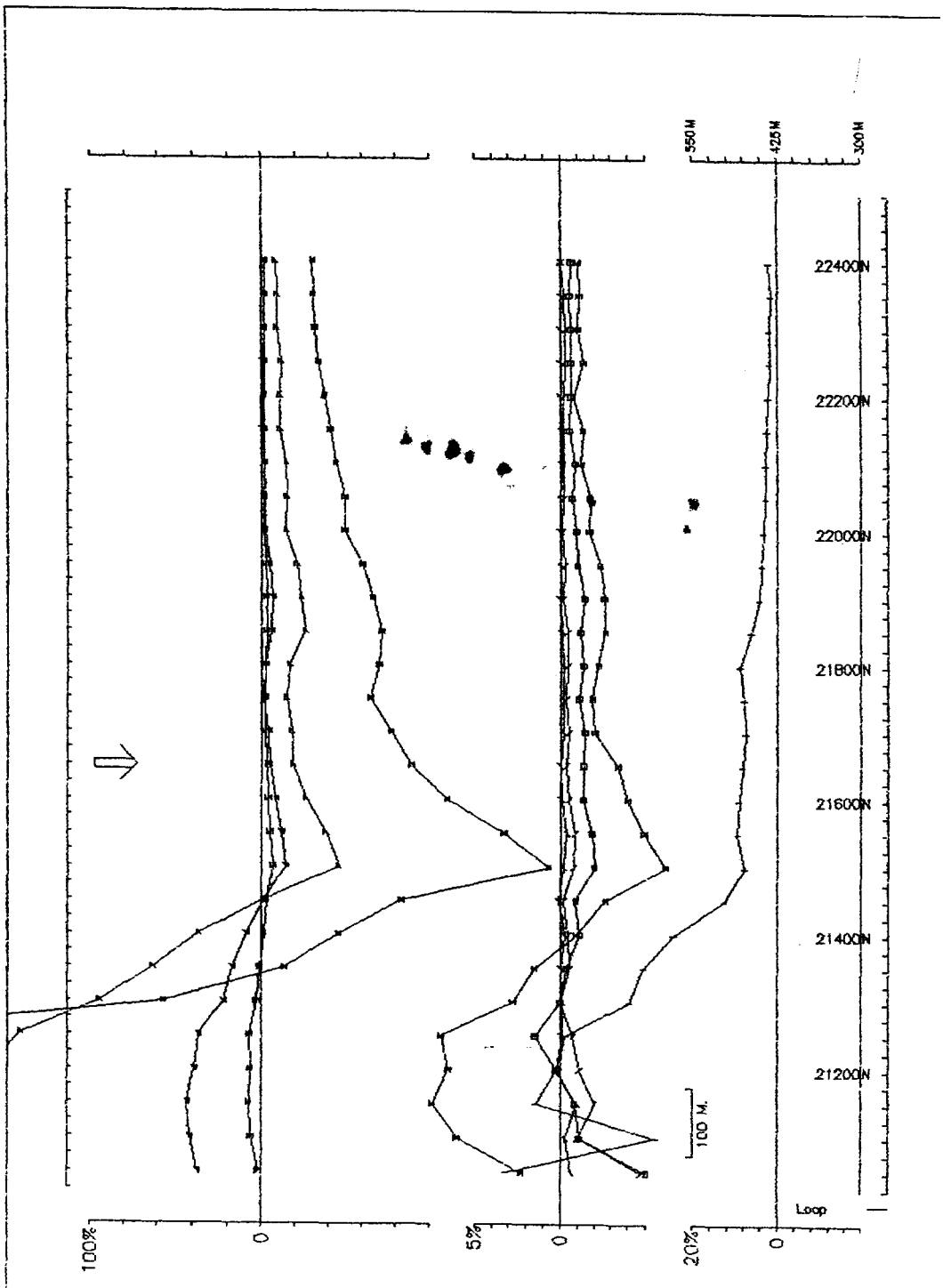
LIZAR PROPERTY,ONT./a nom TECKCOMINCO /Who sur Hz
Op: TJC / DOH Freq(Hz): 30.974 #Strs: 28 Loop: 2 Line: 22200E
Ch1 reduced. Ch1 normalized. TotalsP-1350M,/L-1475M. Line Azim.:0 . Rx Label: 22
100%
0
5%
0
20%
0
100 M.
550M
425M
300M
Loop
212000N
214000N
216000N
218000N
220000N
222000N
224000N



LIZAR PROPERTY,ONT./a nam TECKCOMINCO /Who sur Hz
Op: TJC / DCH Freq(Hz): 30.974 #Stns: 28 Loop: 2 Line: 22200E DS:
Ch1 reduced. Ch1 normalized. Totals:P- 1350M./L- 1475M. Line Azim.: 0 . Rx Label: 22 Point Normalized.

Loop 2


LIZAR PROPERTY.ONT:/o nam TECK COMINCO /Who sur Hz
Op: TJC / DCH Freq(Hz): 30.974 #Stns: 28 Loop: 2 Line: 22100E DS:
Ch1 reduced. Ch1 normalized. Totals:P-1350M,/L-1475M. Line Azm.: 0 . Rx Label: 21
100%
0
5%
0
20%
0
100 M.
350 M
425 M
300 M
Loop
21200N
21400N
21600N
21800N
22000N
22200N
22400N



LIZAR PROPERTY,ONT./a nam TECKCOMINCO /Who sur Hz
Op: TJC / DCH Freq(Hz): 30.974 #Stns: 28 Loop: 2 Line: 22100E DS:
Ch1 reduced. Ch1 normalized. Totals:P-1350M./L-1475M. Line Azim.: 0 . Rx Label: 21 Point Normalized.

Work Report Summary

Transaction No: W0450.01026 **Status:** APPROVED
Recording Date: 2004-JUN-25 **Work Done from:** 2003-FEB-15
Approval Date: 2004-JUL-02 **to:** 2003-DEC-16

Client(s):

300786 RESSOURCES FREEWEST CANADA INC., FREEWEST RESOURCES CANADA INC.

Survey Type(s):

ASSAY EM GCHEM GEOL
LC

Work Report Details:

Claim#	Perform	Perform Approve	Applied	Applied Approve	Assign	Assign Approve	Reserve	Reserve Approve	Due Date
SSM 1166901	$6,062	$6,062	$6,400	$6,400	$0	0	$0	$0	2005-JUL-05
SSM 1166902	$1,529	$1,529	$6,400	$6,400	$0	0	$0	$0	2005-JUL-05
SSM 1166903	$1,253	$1,253	$6,400	$6,400	$0	0	$0	$0	2005-JUL-05
SSM 1215489	$21,299	$21,299	$0	$0	$21,299	21,299	$0	$0	2005-JUN-01
SSM 1218138	$7,517	$7,517	$6,400	$6,400	$1,117	1,117	$0	$0	2005-SEP-10
SSM 1218139	$12,529	$12,529	$4,800	$4,800	$7,729	7,729	$0	$0	2005-SEP-10
SSM 1237578	$13,398	$13,398	$3,600	$3,600	$1,411	1,411	$8,387	$8,387	2005-NOV-01
SSM 1237579	$22,552	$22,552	$3,200	$3,200	$0	0	$22,552	$22,552	2005-NOV-01
SSM 1237584	$13,714	$13,714	$2,400	$2,400	$0	0	$13,714	$13,714	2005-NOV-01
SSM 1239714	$8,703	$8,703	$0	$0	$0	0	$8,703	$8,703	2005-FEB-23
SSM 1239724	$9,425	$9,425	$0	$0	$0	0	$9,425	$9,425	2005-JUN-12
SSM 1239725	$3,770	$3,770	$0	$0	$0	0	$3,770	$3,770	2005-JUN-12
SSM 1239727	$6,816	$6,816	$6,400	$6,400	$0	0	$6,816	$6,816	2005-SEP-27
SSM 1246613	$7,517	$7,517	$0	$0	$0	0	$7,517	$7,517	2005-FEB-15
SSM 1246614	$12,529	$12,529	$0	$0	$0	0	$12,529	$12,529	2005-FEB-15
SSM 1246615	$11,276	$11,276	$0	$0	$0	0	$11,276	$11,276	2005-FEB-15
SSM 1246616	$10,023	$10,023	$0	$0	$0	0	$10,023	$10,023	2005-FEB-15
SSM 1246617	$5,012	$5,012	$0	$0	$0	0	$5,012	$5,012	2005-FEB-15
SSM 1246618	$3,759	$3,759	$0	$0	$0	0	$3,759	$3,759	2005-FEB-15
SSM 1246619	$5,012	$5,012	$0	$0	$0	0	$5,012	$5,012	2005-FEB-15
SSM 1246620	$10,023	$10,023	$0	$0	$0	0	$10,023	$10,023	2005-FEB-15
SSM 1246621	$6,264	$6,264	$0	$0	$0	0	$6,264	$6,264	2005-FEB-15
SSM 1246622	$3,759	$3,759	$0	$0	$0	0	$3,759	$3,759	2005-FEB-15
SSM 1246623	$5,012	$5,012	$0	$0	$0	0	$5,012	$5,012	2005-FEB-15
SSM 1246627	$5,012	$5,012	$0	$0	$0	0	$5,012	$5,012	2005-MAR-07
SSM 1246628	$1,253	$1,253	$0	$0	$0	0	$1,253	$1,253	2005-MAR-07
SSM 1246629	$16,287	$16,287	$0	$0	$0	0	$16,287	$16,287	2005-MAR-07
SSM 1246630	$14,283	$14,283	$0	$0	$0	0	$14,283	$14,283	2005-MAR-07
SSM 1246631	$1,253	$1,253	$0	$0	$0	0	$1,253	$1,253	2005-MAR-07
SSM 1246632	$1,253	$1,253	$0	$0	$0	0	$1,253	$1,253	2005-MAR-07
SSM 1246633	$1,253	$1,253	$0	$0	$0	0	$1,253	$1,253	2005-MAR-19
SSM 1246634	$15,035	$15,035	$0	$0	$0	0	$15,035	$15,035	2005-MAR-19
SSM 1246635	$8,770	$8,770	$0	$0	$0	0	$8,770	$8,770	2005-MAR-19
SSM 1246636	$626	$626	$0	$0	$0	0	$626	$626	2005-MAR-19

Work Report Summary

Transaction No: W0450.01026 **Status:** APPROVED
Recording Date: 2004-JUN-25 **Work Done from:** 2003-FEB-15
Approval Date: 2004-JUL-02 **to:** 2003-DEC-16

Work Report Details:

Claim#	Perform	Perform Approve	Applied	Applied Approve	Assign	Assign Approve	Reserve	Reserve Approve	Due Date
SSM 1246637	$626	$626	$0	$0	$0	0	$626	$626	2005-MAR-19
SSM 3004629	$16,074	$16,074	$0	$0	$0	0	$16,074	$16,074	2005-JAN-30
SSM 3010826	$8,895	$8,895	$4,000	$4,000	$0	0	$8,895	$8,895	2005-DEC-17
SSM 3010827	$8,500	$8,500	$4,800	$4,800	$0	0	$8,500	$8,500	2005-DEC-17
SSM 3010828	$2,830	$2,830	$400	$400	$0	0	$2,830	$2,830	2005-DEC-17
	$310,703	$310,703	$55,200	$55,200	$31,556	$31,556	$255,503	$255,503	

External Credits: $0

Reserve:

$255,503 Reserve of Work Report#: W0450.01026

$255,503 Total Remaining

Status of claim is based on information currently on record.

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

GEOSCIENCE ASSESSMENT OFFICE
933 RAMSEY LAKE ROAD, 6th FLOOR
SUDBURY, ONTARIO
P3E 6B5

Date: 2004-JUL-02

Tel: (888) 415-9845
Fax:(877) 670-1555

RESSOURCES FREEWEST CANADA INC.,
FREEWEST RESOURCES CANADA INC.
615 BOULEVARD RENE LEVESQUE
SUITE 1200
MONTREAL, QUEBEC
H3B 1P5 CANADA

Submission Number: 2.27988
Transaction Number(s): W0450.01026

Dear Sir or Madam

Subject: Approval of Assessment Work

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

If you have any question regarding this correspondence, please contact BRUCE GATES by email at bruce.gates@ndm.gov.on.ca or by phone at (705) 670-5856.

Yours Sincerely,

R. Schienbein
Senior Manager(A), Mining Lands Section

Cc: Resident Geologist

Teck Cominco Limited
(Agent)

Ressources Freewest Canada Inc., Freewest Resources Canada Inc.
(Assessment Office)

Assessment File Library

Ressources Freewest Canada Inc., Freewest Resources Canada Inc.
(Claim Holder)

ONTARIO CANADA — Ministry of Northern Development and Mines — Provincial Mining Recorder's Office

Mining Land Tenure Map

Date / Time of Issue: Tue Jul 06 15:37:36 EDT 2004

TOWNSHIP / AREA **BRECKENRIDGE** — **PLAN G-1875**

ADMINISTRATIVE DISTRICTS / DIVISIONS

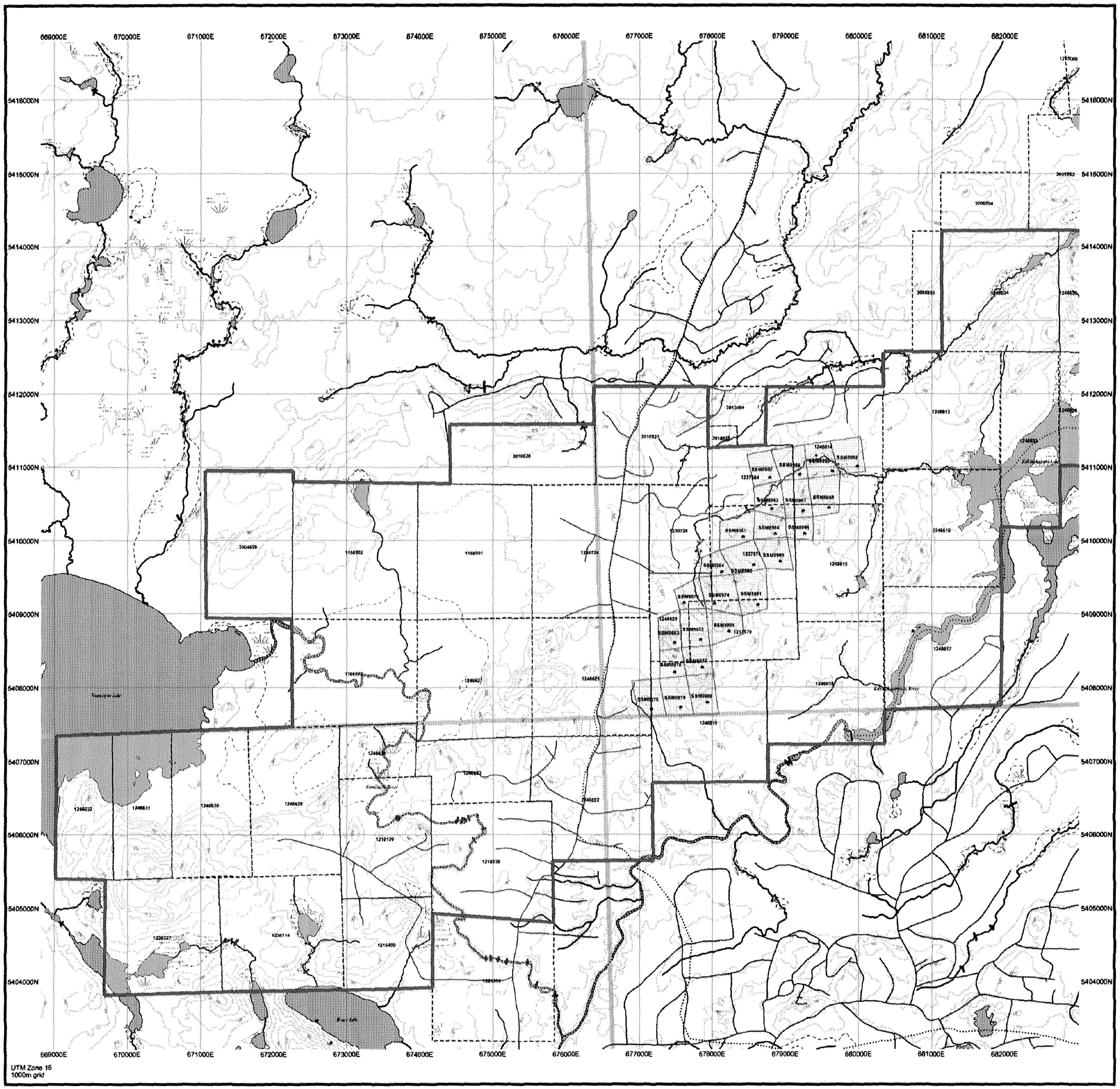
Mining Division	Sault Ste. Marie
Land Titles/Registry Division	ALGOMA
Ministry of Natural Resources District	WAWA

TOPOGRAPHIC

Land Tenure

LAND TENURE WITHDRAWALS

IMPORTANT NOTICES



LAND TENURE WITHDRAWAL DESCRIPTIONS

2.27988
ASSAY
EM
GCHEM
GEOL
LC

General Information and Limitations

200

42C16SW2003 2.27988 LIZAR

ONTARIO CANADA

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

PROVINCIAL MINING RECORDER'S OFFICE

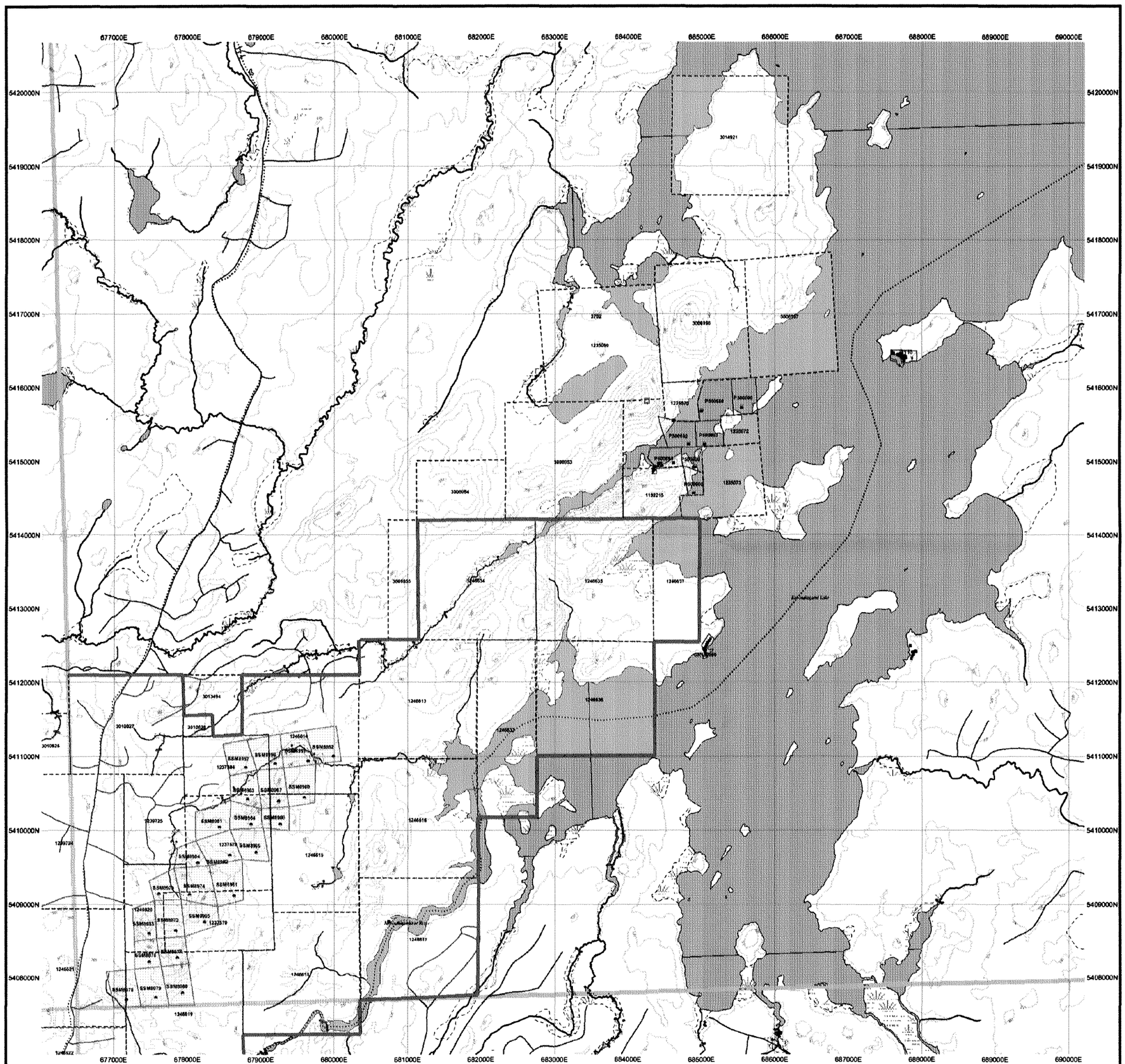
Mining Land Tenure Map

Date / Time of Issue: Tue Jul 06 15:49:00 EDT 2004

TOWNSHIP / AREA	PLAN
LIZAR	G-2328

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division	Sault Ste. Marie
Land Titles/Registry Division	ALGOMA
Ministry of Natural Resources District	WAWA



TOPOGRAPHIC

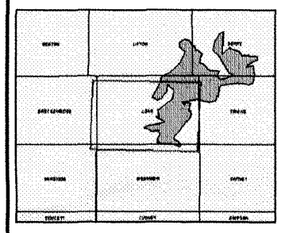
- Administrative Boundaries
- Township
- Concession, Lot
- Provincial Park
- Indian Reserve
- Cliff, Pit & Pile
- Contour
- Mine Shafts
- Mine Headframe
- Railway
- River
- Trail
- Natural Gas Pipeline
- Ussies
- Tower

Land Tenure

Freehold Patent
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Leasehold Patent
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Licence of Occupation
- Users Not Specified
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only
- LUP: Land Use Permit
- OIC: Order In Council (Not open for staking)
- WPLA: Water Power Lease Agreement
- 1234567: Mining Claim
- 1234567: Filed Only Mining Claims



LAND TENURE WITHDRAWALS

1234 — Areas Withdrawn from Disposition

Mining Acts Withdrawal Types
- Wsm: No New Mnrg Rights Wdrawn
- Ws: Surface Rights Only Withdrawn
- Wm: Mining Rights Only Withdrawn

Order In Council Withdrawal Types
- W sm: Surface And Mining Rights Withdrawn
- W s: Surface Rights Only Withdrawn
- W m: Mining Rights Only Withdrawn

Ns — IMPORTANT NOTICES

700m 0m Scale 1:20000 2.1km

LAND TENURE WITHDRAWAL DESCRIPTIONS

Identifier	Type	Date	Description
2702	Wsm	Jan 1, 2001	400 FEET SURFACE RIGHTS RESERVATION ALONG THE SHORES OF ALL LAKES AND RIVERS

2.27988
ASSAY
EM
GCHEM
GEOL
LC

General Information and Limitations

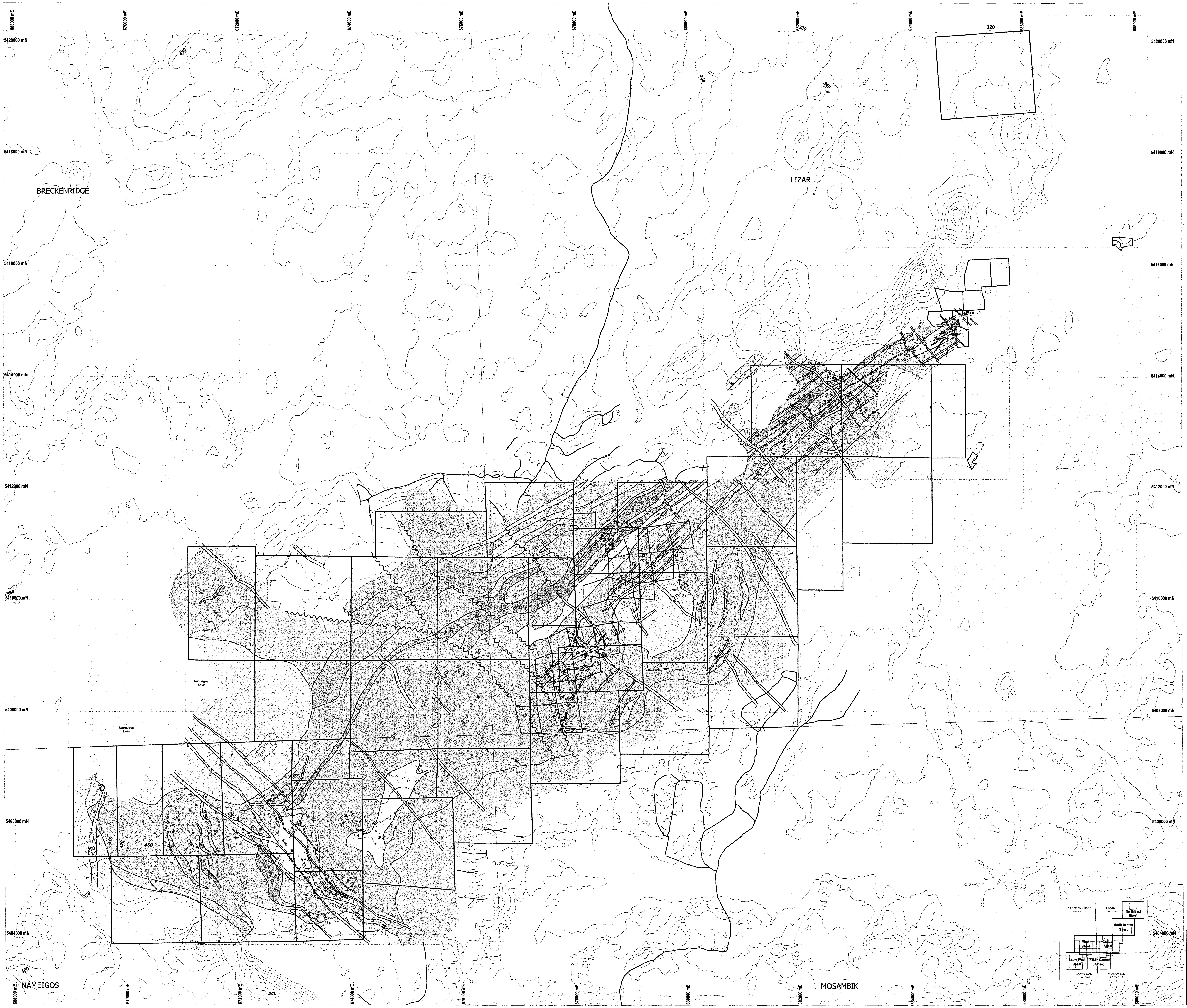
Those wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on the map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the local Land Titles or Registry Office, or the Ministry of Natural Resources.

Contact Information:
Provincial Mining Recorders' Office
Willet Green Miller Centre 933 Ramsey Lake Road

Toll Free
Tel: 1 888 | 415-9845 ext. 5742 (Provincial)

Map Datum: NAD 83
UTM (5 degree)
Topographic Data Source: Land Information Ontario

This map may not show unregistered land tenure and interests in land including certain patents, leases, easements, right of ways, flooding rights, licenses, or other forms of disposition of rights and interest from the Crown. Also certain land tenure and land uses that restrict or prohibit free entry to stake mining claims may not be illustrated.



42C16SW2003 2.27988 LIZAR 220

SYMBOLS

- Outcrop: large, small
- Geologic Contact
- Limits of Outcrop
- Sulphide Showing (py-pyrite, po-pyrrhotite, sph-sphalerite, cpy-chalcopyrite, gn-galena)
- Massive to Semi-Massive Sulphides

LEGEND

PROTEROZOIC

12 Mafic Instrusive Rocks
12a. Diabase Dyke

ARCHEAN

11 High-Level Intrusive Rocks
11a. Quartz-Feldspar Porphyry
11b. Feldspar Porphyry
11c. Quartz Porphyry
11d. Quartz-Sericite Schist
11e. Felsic Dyke

10 Felsic to Intermediate Intrusive Rocks
10a. Granodiorite
10b. Granite
10c. Quartz Monzonite
10d. Syenite
10e. Pegmatite

9 Intermediate to Mafic Intrusive Rocks
9a. Diorite
9b. Quartz Diorite
9c. Intermediate Dyke

8 Mafic and Ultramafic Intrusive Rocks
8a. Gabbro, coarse-grained Amphibolite
8b. Anorthosite
8c. Pyroxenite/Horneblendite
8d. Peridotite
8e. Serpentinite
8f. Amphibolite Gneiss
8g. Mafic Dyke

7 Granitic Gneisses

6 Clastic Sedimentary Rocks
6a. Conglomerate
6b. Arkose
6c. Feldspathic Arenite, Siltite, Wacke
6d. Biotitic Wacke
6e. Horneblende Wacke
6f. Argillite, Pelite
6g. Volcaniclastic Sedimentary Rock
6h. Mica Schist +/- Alumino-Silicates
6i. Biotite Schist +/- Garnet and Alumino-Silicates
6j. Derived Gneisses

5 Chemical Sedimentary Rocks
5a. Chert
5b. Magnetite Iron Formation
5c. Pyritic Iron Formation
5d. Calc-Silicate Layered Rock

4 Felsic Volcanic Rocks
4a. Massive Flows
4b. Feldspar +/- Quartz Porphyritic Flows
4c. Quartz Porphyritic Flows
4d. Tuff/Lapilli Tuff
4e. Tuff Breccia/Volcanic Breccia
4f. Quartz-Sericite Schist
4g. Felsic Gneiss
4h. Quartz Porphyry Sill or Flow?

3 Intermediate Volcanic Rocks
3a. Massive Flows
3b. Feldspar Porphyritic Flows
3c. Tuff/Lapilli Tuff
3d. Tuff Breccia/Volcanic Breccia
3e. Derived Schists, Gneisses

2 Mafic Volcanic Rocks
2a. Massive Fine-Grained Flows
2b. Pillowed Flows
2c. medium to coarse-grained Flows
2d. Plagioclase Phyric Flows
2e. Amygdaloidal or Vesicular Flows
2f. Variolithic Flows
2g. Flow Breccia
2h. Layered Mafic Tuffs
2i. Lapilli Tuffs
2j. Tuff Breccia
2k. Chloritic Schists
2l. Amphibolite
2m. Amphibolite Gneiss

1 Ultramafic Volcanic Rocks
1a. Massive Flows
1b. Flow Breccia
1c. Spinifex-textured Flow
1d. Serpentinite

0 1000 2000
metres

Teck Cominco Limited
P.O. Box 938, Station Main,
Kamloops, B.C. V2C 5N4

teckcominco

LIZAR PROJECT

SAULT STE. MARIE, Mining Division, ONT.

Property Geology Map

SCALE: 1:20,000	DATA: Jari Paakki	NTS No: 42C/9,10,15,16	Figure: 4
DATE: MAY 12, 2004	DRAWN BY: S.A.	DWG: Prop_Geol_20000_48x36.WOR	

Nameigos Lake

SSM 1246632 | SSM 1246631 | SSM 1246630 | SSM 1246629 | SSM 1246628 | SSM 1246623 | SSM 1218139 | SSM 1218138 | SSM 1239727 | SSM 1239714 | SSM 1215489

Cedar Swamp | Poplar, Alders | Poplar, Aspen | Alder, Poplar | Cedar | Clearcut | NO OUTCROP | GRID C BL | Cedar Swamp | Poplar, Pine | Cedar Swamp

Nameigos Sulphide Zone

665000 mE | 666000 mE | 667000 mE | 668000 mE | 669000 mE | 670000 mE | 671000 mE | 672000 mE

5407000 mN | 5406000 mN | 5405000 mN | 5404000 mN

0 200 400 metres

SYMBOLS

- Outcrop: large, small
- Geologic Contact
- Limits of Outcrop
- Sulphide Showing (mafic to ultramafic sp=phlogopite, g=garnet, cp=chalcopyrite, py=pyrite)
- Massive to Semi-Massive Sulphides
- Trench Outline
- Faults
- 2003 Teck Cominco Outcrop Sample
- 2003 Teck Cominco MMI Sample

g - garnet; qv - quartz vein; alum - alumino silicate; ser - sericite; ab - alkit; bio - biotite; chl - chlorite; amp - amphibole; syn; foliation; bedding; younging; direction; antiform; synform; anticline; syncline

LEGEND

PROTEROZOIC

12 Mafic Instrusive Rocks
- 12a Diabase Dyke

ARCHEAN

11 High-Level Intrusive Rocks
- 11b Quartz-Feldspar Porphyry
- 11b Feldspar Porphyry
- 11c Quartz Porphyry
- 11d Quartz Sericite Schist
- 11e Felsic Dyke

10 Felsic to Intermediate Intrusive Rocks
- 10a Granodiorite
- 10b Diorite
- 10c Quartz Monzonite
- 10d Syenite
- 10e Pegmatite

9 Intermediate to Mafic Intrusive Rocks
- 9a Diorite
- 9b Quartz Diorite
- 9c Intermediate Dyke

8 Mafic and Ultramafic Intrusive Rocks
- 8a Gabbro, coarse grained Amphibolite
- 8b Anorthosite
- 8c Pyroxenite/Hornblendite
- 8d Peridotite
- 8e Serpentinite
- 8f Amphibolite Gneiss
- 8g Mafic Dyke

7 Granitic Gneisses

6 Clastic Sedimentary Rocks
- 6a Conglomerate
- 6b Arkose
- 6c Feldspathic Arenite, Siltite, Wacke
- 6d Biotitic Wacke
- 6e Hornblende Wacke
- 6f Argillite, Pelite
- 6g Volcaniclastic Sedimentary Rock
- 6h Mica Schist +/- Alumino-Silicates
- 6i Biotite Schist +/- Garnet and Alumino-Silicates
- 6j Derived Gneisses

5 Chemical Sedimentary Rocks
- 5a Chert
- 5b Magnetite Iron Formation
- 5c Pyritic Iron Formation
- 5d Calc-Silicate Layered Rock

4 Felsic Volcanic Rocks
- 4a Massive Flows
- 4b Feldspar Quartz Porphyritic Flows
- 4c Felsic Pyroclastic Flows
- 4d Tuff/Lapilli Tuff
- 4e Tuff Breccia/Volcanic Breccia
- 4f Felsic Volcanic Schist
- 4g Felsic Gneiss
- 4h Quartz Porphyry Sill or Flow?

3 Intermediate Volcanic Rocks
- 3a Massive Flows
- 3b Feldspar Porphyritic Flows
- 3c Lapilli Tuffs
- 3d Tuff Breccia/Volcanic Breccia
- 3e Derived Schists, Gneisses

2 Mafic Volcanic Rocks
- 2a Massive Fine-Grained Flows
- 2b Pillowed Flows
- 2c medium to coarse-grained Flows
- 2d Plagioclase Phyric Flows
- 2e Amygdaloidal Flows/Vesicular Flows
- 2f Variolitic Flows
- 2g Flow Breccia
- 2h Lapilli Tuff/Crystal Tuffs
- 2i Lapilli Tuffs
- 2j Tuff Breccia
- 2k Chloritic Schists
- 2l Amphibolite
- 2m Amphibolite Gneiss

1 Ultramafic Volcanic Rocks
- 1a Massive Flows
- 1b Flow Breccia
- 1c Spinifex-textured Flow
- 1d Serpentinite

Teck Cominco Limited
P.O. Box 626, Station Main,
Kamloops, B.C. V2C 5K4

teck cominco

LIZAR PROJECT
SAULT STE. MARIE, Mining Division, ONT.

Geology and Sample Locations

South West Sheet

SCALE: 1:5,000	DATA: Jan Pawlak	NTS No: 42C/9,10,15,16	Figure: 5
DATE: JUNE 14, 2004	DRAWN BY: S.A.	DWG: Geology Sheet 4.dwg	

North East Sheet | North Central Sheet | West Sheet | Central Sheet | South West Sheet | South Central Sheet

42C16SW2003 2.27988 LIZAR 230

SYMBOLS

- Outcrop: large, small
- Geologic Contact
- Limits of Outcrop
- Sulphide Showing
  py-pyrite, po-pyrrhotite, sph-sphalerite, cpy-chalcopyrite, gn-galena
- Massive to Semi-Massive Sulphides
- Trench Outline
- Faults
- 2003 Teck Cominco Outcrop Sample
- 2003 Teck Cominco MMI Sample

gt - garnet	foliation
qv - quartz vein	bedding
alum - alumino silicate	pillow top
ser - sericite	stretch lineation
sil - silicification	z-fold
bio - biotite	s-fold
chl - chlorite	synclinal axis
lamp - lamprophyre dyke	anticlinal axis

LEGEND

PROTEROZOIC

12 Mafic Instrusive Rocks
12a. Diabase Dyke

ARCHEAN

11 High-Level Intrusive Rocks
11a. Quartz-Feldspar Porphyry
11b. Feldspar Porphyry
11c. Quartz Porphyry
11d. Quartz-Sericite Schist
11e. Felsic Dyke

10 Felsic to Intermediate Intrusive Rocks
10a. Granodiorite
10b. Granite
10c. Quartz Monzonite
10d. Syenite
10e. Pegmatite

9 Intermediate to Mafic Intrusive Rocks
9a. Diorite
9b. Quartz Diorite
9c. Intermediate Dyke

8 Mafic and Ultramafic Intrusive Rocks
8a. Gabbro, coarse-grained Amphibolite
8b. Anorthosite
8c. Pyroxenite/Horneblendite
8d. Peridotite
8e. Serpentinite
8f. Amphibolite Gneiss
8g. Mafic Dyke

7 Granitic Gneisses

6 Clastic Sedimentary Rocks
6a. Conglomerate
6b. Arkose
6c. Feldspathic Arenite, Siltite, Wacke
6d. Biotitic Wacke
6e. Horneblende Wacke
6f. Argillite, Pelite
6g. Volcaniclastic Sedimentary Rock
6h. Mica Schist +/- Alumino-Silicates
6i. Biotite Schist +/- Garnet and Alumino-Silicates
6j. Derived Gneisses

5 Chemical Sedimentary Rocks
5a. Chert
5b. Magnetite Iron Formation
5c. Pyritic Iron Formation
5d. Calc-Silicate Layered Rock

4 Felsic Volcanic Rocks
4a. Massive Flows
4b. Feldspar +/- Quartz Porphyritic Flows
4c. Quartz Porphyritic Flows
4d. Tuff/Lapilli Tuff
4e. Tuff Breccia/Volcanic Breccia
4f. Quartz-Sericite Schist
4g. Felsic Gneiss
4h. Quartz Porphyry Sill or Flow?

3 Intermediate Volcanic Rocks
3a. Massive Flows
3b. Feldspar Porphyritic Flows
3c. Tuff/Lapilli Tuff
3d. Tuff Breccia/Volcanic Breccia
3e. Derived Schists, Gneisses

2 Mafic Volcanic Rocks
2a. Massive Fine-Grained Flows
2b. Pillowed Flows
2c. medium to coarse-grained Flows
2d. Plagioclase Phyric Flows
2e. Amygdaloidal or Vesicular Flows
2f. Variolithic Flows
2g. Flow Breccia
2h. Layered Mafic Tuffs
2i. Lapilli Tuffs
2j. Tuff Breccia
2k. Chloritic Schists
2l. Amphibolite
2m. Amphibolite Gneiss

1 Ultramafic Volcanic Rocks
1a. Massive Flows
1b. Flow Breccia
1c. Spinifex-textured Flow
1d. Serpentinite

North East Sheet
North Central Sheet
Central Sheet

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Kamloops, B.C. V2C 5N4

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LIZAR PROJECT
SAULT STE. MARIE, Mining Division, ONT.

Geology and Sample Locations

South Central Sheet

SCALE: 1:5,000	DATA: Jari Paakki	NTS No: 42C/9,10,15,16	Figure:
DATE: JUNE 14, 2004	DRAWN BY: S.A.	DWG: Geol&Samp_5000sc_48x36.WOR	6

5416000 mN
5415000 mN
5414000 mN
5413000 mN
685000 mE
SSM 1246634
SSM 1246635
SSM 1246637
SSM 1246613
SSM 1246633
SSM 1246636
North Zone
Hiawatha Mine Shaft
South Zone
10 brecciated
3rd Zone?
West Zone
Hiawatha Mine Area Compiled from Gov assessment files
NO OUTCROP
Cedar Swamp
SYMBOLS
LEGEND
PROTEROZOIC
12 Mafic Intrusive Rocks
ARCHEAN
11 High-Level Intrusive Rocks
10 Felsic to Intermediate Intrusive Rocks
9 Intermediate to Mafic Intrusive Rocks
8 Mafic and Ultramafic Intrusive Rocks
7 Granitic Gneisses
6 Clastic Sedimentary Rocks
5 Chemical Sedimentary Rocks
4 Felsic Volcanic Rocks
3 Intermediate Volcanic Rocks
2 Mafic Volcanic Rocks
2j. Tuff Breccia
2k. Chloritic Schists
2l. Amphibolite
2m. Amphibolite Gneiss
1 Ultramafic Volcanic Rocks
1a. Massive Flows
1b. Flow Breccia
1c. Spinifex-textured Flow
1d. Serpentinite
0 200 400
metres
BRECKENRIDGE
LIZAR
North East Sheet
North Central Sheet
West Sheet
Central Sheet
South West Sheet
South Central Sheet
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Geology and
Sample Locations
North Central Sheet
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Figure:
9
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