# SUMMARY REPORT

## GEOPHYSICAL SURVEY
## ON
## BEARTRACK LAKE PROPERTY

## IN THE
## LAVAL TOWNSHIP
## DRYDEN AREA / NW-ONTARIO
## (CLAIM MAP: G-0823)

PREPARED AND SUBMITTED BY:

HORST W. PETAK, Ph.D., P.Eng.
INDEPENDENT EXPLORATION SERVICES Ltd.
104 BROWNING BLVD., WINNIPEG, MAN.

WINNIPEG, MAY 13th, 1992

TABLE OF CONTENTS:

## SUMMARY & CONCLUSIONS:

From November 1991 to early April 1992 INDEPENDENT EXPLORATION SERVICES Ltd. of Winnipeg, Man. carried out geophysical surveys over the BEARTRACK LAKE PROPERTY in the Dryden area, NW-Ontario, on behalf of CHAMPION BEAR RESOURCES Ltd. of Calgary Alberta. The surveys consisted of LINE CUTTING, GROUND MAGNETIC SURVEY, and VLF-ELECTROMAGNETIC SURVEY covering all 26 claims of the property.

The magnetic survey outlined areas underlain by mafic volcanic rocks and associated subvolcanic mafic intrusive rocks. It also delineated areas containing deformational structures of the type which hosts the Graham Bousquet No.1 and 2 gold showings north and south of Beartrack Lake.

Follow-up work consisting of *geological mapping, prospecting and sampling*, and depending on results, some *selective IP survey* is recommended. Results from such work should provide future drill targets on the property.

## LOCATION & ACCESS:

The Beartrack Lake property centers about 18 km ENE from the Dryden municipal airport (Fig.1) and is located in NTS area 52F/16SW, in the LAVAL TOWNSHIP of NW-ONTARIO . The southwest end of the property borders the "Lola Lake Provincial Nature Reserve Park".

Beartrack Lake is accessible by land via the GHOST LAKE ROAD (starting at the Dryden airport) and an old logging road branching off from it. The driving distance from the City of Dryden is 41 km.

## PROPERTY STATUS:

The BEARTRACK LAKE PROPERTY is comprised of a total of 33 contiguous mining claims encompassing an area of 2,128 Hectare (5,258 acres). It is situated in LAVAL TOWNSHIP eastnortheast of Dryden, within the KENORA MINING DIVISION. The location of the claims is shown on attached MAP #1: CLAIM MAP, LAVAL TOWNSHIP, # G-0823 . Appendix "A" of this report presents a listing of all the claims by their claim number.

The REGISTERED HOLDER of the mineral rights of these claims is:

**CHAMPION BEAR RESOURCES LTD.**
**3805 - 7A STREET S.W.**
**CALGARY, ALBERTA**
**T2T 2Y8**
**PHONE: (403) 263 2190**

---

**CLT # 116945**

The official ONTARIO REPRESENTATIVE of CHAMPION BEAR RESOURCES LTD. is:

**BORDEN & ELLIOT**
**BANK OF COMMERCE BUILDING**
**250 UNIVERSITY AVE.**
**TORONTO, ONTARIO**
**M5H 3E9**

GULLWING LAKE

Gullwing Point

Lindstrom Bay

Coates Bay

STOKES GEOGRAPHIC TOWNSHIP

ZEALAND GEOGRAPHIC TOWNSHIP

DROPE GEOGRAPHIC TOWNSHIP

BROWNRIDGE GEOGRAPHIC TOWNSHIP

WEBB GEOGRAPHIC TOWNSHIP

LAVAL GEOGRAPHIC TOWNSHIP

Rockbound Lake

Beartrack Creek

Pronger Lake

GHOST LAKE ROAD

Lake

Ghost Lake

Mavis Lake

AIRPORT

Dryden Municipal Airport

Airport Limits

Auto Wrecker

GEOGRAPHIC TOWNSHIP

Barclay Township Municipality

BROWNRIDGE GEOGRAPHIC TOWNSHIP

LOLA LAKE PROVINCIAL NATURE RESERVE PARK

PROPERTY

Refter Lake

Beartrack Lake

Gardiner Lake

Thistlewood Lake

Lola Lake

FIG 1: LOCTION MAP

## EXPLORATION HISTORY

A detailed account of the exploration history of the area, including the property discussed in this report, is included in ONTARIO GEOLOGICAL SURVEY REPORT 272 (B.R.BERGER, 1990). "Intense exploration activity", involving a number of companies, is reported to have occurred during the period from 1946 to 1952. The search was for gold and resulted in the discovery of the Goldlund deposit and significant showings at Troutfly Lake and Beartrack Lake. The Beartrack Lake gold showings, referred to as the "GRAHAM BOUSQUET No.1 and No.2 SHOWINGS" (B.R.BERGER, 1990), after remaining dormant since 1952, were restaked in 1989 by the prospectors B. Fairservice, A. Glatz, and J. Riives. Significant gold assays from a diamond drill program back in 1950-51 and from surface samples taken during prospecting work carried out by above mentioned individuals, prompted CHAMPION BEAR RESOURCES LTD. from Calgary, Alberta, to option the property and carry out a full scale exploration program. Reported assay values for gold range up to better than 1.0 oz/t.

A number of different geological survey teams have over time carried out various mapping programs in the region including Laval Township. Detailed reference to earlier such programs and results from these can be found in the latest OGS REPORT 272, "Precambrian Geology Laval and Hartman Townships", by B.R.BERGER, 1990.

The Beartrack Lake property was also covered by an airborne geophysical survey flown by Geoterrex Limited under contract of the Ontario Geological Survey. The property area is contained in Map 80959 which was part of an airborne data release by the Ministry of Northern Development and Mines of Ontario in 1987.

## GENERAL GEOLOGY:

All bedrock underlying Laval Township is Archean in age and is within the Wabigoon Subprovince of the Superior Province in the Canadian Shield. "Supracrustal lithologies" make up about "80%" of the rocks "and are composed of mafic, intermediate and felsic metavolcanics, related subvolcanic intrusions composed of gabbroic sheets and dikes, feldspar- and quartz-feldspar-phyric dikes, and clastic and chemical metasediments" (B.R.BERGER, 1990). The remaining 20% consist of felsic plutonic assemblages like granodiorite, quartz monzonite, granite, and tonalite which intruded the supracrustal metavolcanic and metasedimentary sequences. These plutons occur as distinct stocks like the Gardnar Lake stock whose contact lies along the southeastern property boundary.

Referring to Chorlton (1987), B.R. BERGER, 1990, describes the tectonic history of the area as being characterized by three major distinct stages of deformation.

1.) A synvolcanic stage produced "gently dipping structures" (foliations, fold axes, lineations, and shear zones) in the volcanic sequences.

2.) A synplutonic stage developed "steeply plunging lineations and foliations" around the intrusive stocks.

3.) A syn- to postplutonic (?) stage created "upright folds in the supracrustal rocks, steepening and refolding of the earlier structures and creation of steeply dipping easterly to northeasterly trending shear zones".

B.R. BERGER, 1990, notes that "gold mineralization is localized in third stage deformational structures which are prospective exploration targets especially where they have fractured and flexed structurally competent bodies".

A Table summarizing the lithologic units mapped in the Laval and Hartman Townships in the Dryden area is included in Appendix "B" of this report.

## GEOPHYSICAL SURVEYS:

Starting in November 1991 until April 1992, *INDEPENDENT EXPLORATION SERVICES Ltd.* of Winnipeg, Manitoba, covered almost the entire property with geophysical surveys. All the work was performed on behalf of *CHAMPION BEAR RESOURCES Ltd.* of Calgary, Alberta. It consisted of 161 km of LINE CUTTING, 146 km of MAGNETIC SURVEY, and 146 km of VLF-EM SURVEY.

## LINE CUTTING:

A geophysical reference grid covering most of the property, consisted of 146 km of cross lines and 3 base- and tie lines of a combined total of 16 km. cross lines were cut at 100 meter intervals and picketed every 25 meters. Most of the cutting was done with axe. Power saws were only used for heavy timber.

## GROUND MAGNETIC SURVEY:

A ground magnetic survey was performed with an *EDA Omni-Plus* system along cross lines where field readings were taken at 12.5 meter station intervals. The instrument consisted of an integrated microprocessor-based magnetometer/vlf system with memory bank. The magnetometer module measured the total magnetic field strength. The system was used in combination with a base station. Interfacing of the base station unit and the field unit during the data dump procedure allowed electronic correction of the raw field data for the diurnal variation of the earth's magnetic field.

Data processing and plotting was done electronically by the author. The software package used for this purpose was Geosoft's Mapping system run on a PC system. Plotting was done on an HP drum plotter.

The data are presented as contour maps and as maps containing the diurnally corrected, posted total field magnetic intensities in nT (1 nT = 1 gamma). The contour maps were plotted in the scales of 1: 10,000 (Map #1) and 1: 5,000 (Map #2,3,4). The posted data were plotted on a map scale of 1: 5,000 only (Map #5,6,7).

The magnetic pattern of the surveyed area is characterized by two well pronounced and fairly extensive highs reflecting mafic volcanic rocks mixed with subvolcanic mafic intrusives of gabbroic composition. One of these zones trends about subparallel to tie line 1000 N through the entire length of the grid. The other one occurs mainly south of base line 0, with the highest amplitudes south of tie line 700 S between lines 1700 W and 2300 W. The areas grid-north and grid-south of these magnetic highs as well as a fairly wide area between, shows a very flat, low amplitude pattern of low intensity. This pattern may be the response of mainly sediments and perhaps felsic volcanic rock assemblages.

Another element in the magnetic pattern of the grid area is a series of very narrow magnetic lows. Many of these line up in a peat string fashion, suggesting fault and shear zones. The more pronounced ones were mapped out on Map #1. Their principal orientations seem to be easterly, northeasterly and northnortheasterly. Most of them could probably be classified as "third stage deformation" structures. The two gold showings on the property (Bousquet 1 and 2, north and south of Beartrack Lake) are closely associated with this type of structures. Follow-up mapping and prospecting is recommended with emphasis on these particular areas. Depending on results some selective IP coverage

**VLF-EM SURVEY:**

The VLF-EM survey was carried out with the same EDA Omni-Plus system that was used for the magnetic survey. The VLF module of the system measured and recorded the in-phase and quadrature component of the transmitter station NLK (Jim Creek, Wash.) on the frequency of 24.8 kHz. Readings were taken at 12.5 meter station intervals.

The VLF-EM data are presented as profile maps and maps containing the posted actual field readings of the in-phase and quadrature component. Both types of maps were plotted in a map scale of 1: 5,000 (Map #8,9,10,11,12,13). A data interpretation was compiled and plotted on the magnetic contour map in the scale of 1: 10,000 (Map #1).

The survey delineated 9 VLF-EM conductors. Their individual location on each line is indicated on Map #8, 9, and 10. Their axes delineating the strike are

outlined on Map #1. The conductive zones are marked with capital letters from A to I. The remaining survey picked up strong geophysical noise largely due to conductive overburden and rugged paleomorphology. VLF-EM data from these areas are therefore highly unreliable.

Conductive zones A to G are all located north of 1500N, in a magnetically low relief, low background area, believed to be underlain by mostly sedimentary rocks. They are therefore considered to be very low priority targets. Zone H and I are associated with the southern magnetic trend (south of BL-0) which is caused by mafic volcanics and associated mafic subvolcanic intrusives. Both zones show a reasonably strong conductivity response which could be caused by sulfides associated with shear zones. Since such a scenario provides good potential for gold mineralization, both zones H and I should be included in a follow-up program.

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**LIST OF REFERENCE:**

BERGER, B.R.,1990: Precambrian Geology Laval and Hartman Townships
Ontario Geological Survey Report 272

Min.of Northern Development and Mines; Ontario

# APPENDIX "A"

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CHAMPION BEAR RESOURCES LTD
BEARTRACK LAKE PROJECT
LAVAL TWP G-0823

LIST OF CLAIMS

CLAIM NO:

K1085111
K1085112
K1133313
K1133443
K1133507
K1133508
K1133509
K1133510
K1133511
K1133512
K1133513
K1133514
K1133515
K1133516
K1133517
K1133519
K1133520
K1133521
K1144900
K1161172
K1161173
K1161174
K1161175
K1161176
K1161177
K1161178
K1161179
K1161180
K1161181
K1161182
K1161183
K1161184
K1161185

# APPENDIX "B"

TABLE 1. TABLE OF LITHOLOGIC UNITS FOR THE LAVAL AND HARTMAN TOWNSHIPS AREA.

PHANEROZOIC

CENOZOIC

QUATERNARY

RECENT

Swamp, lake and stream deposits

*Unconformity*

PRECAMBRIAN

ARCHEAN

LATE ARCHEAN

MAFIC INTRUSIONS

*Lamprophyre dikes.*

EARLY TO LATE ARCHEAN

FELSIC INTRUSIONS

Granodiorite, granite, tonalite, quartz monzonite, monzonite, quartz diorite, monzogabbro, pegmatite, aplite.

MAFIC INTRUSIONS

Gabbro, diorite, leucogabbro, plagioclase-phyric gabbro, quartz diorite, gabbroic dikes, altered gabbro.

CLASTIC AND CHEMICAL METASEDIMENTS

Wacke, siltstone, mafic wacke, pebbly wacke, argillaceous, phyllitic and biotite-muscovite-quartz schist, hornblende-garnet-biotite amphibolite, sulphide-magnetite and magnetite ironstone, chert, and metatexite.

FELSIC TO INTERMEDIATE METAVOLCANICS

Massive, spherulitic and autobrecciated flows, tuff and crystal tuff, lapilli tuff, breccia, feldspar, quartz and quartz-feldspar-phyric dikes, quartz-muscovite schist.

HORNBLENDE-PHYRIC MAFIC TO INTERMEDIATE METAVOLCANICS

Massive and pillowed flows, tuff and crystal tuff, lapilli tuff and lapillistone, tuff breccia and breccia, pillow breccia, chlorite schist, basaltic dikes and sills.

MAFIC METAVOLCANICS

Massive, pillowed and variolitic flows, pillow breccia, tuff, lapilli tuff and lapillistone, breccia and tuff breccia, basaltic dikes and sills, amphibolite, talc-chlorite and talc-chlorite-carbonate schist, plagioclase-phyric flows.

(after: B.R.BERGER, 1990)

020

# INDUCED POLARIZATION SURVEY
property of
CHAMPION BEAR RESOURCES LIMITED
BEARTRACK LAKE Project
Laval Township
Province of Ontario
February 1992

P. Lortie R. Turcotte

SERVICES EN LEVÉS GÉOPHYSIQUES • GEOPHYSICAL SERVICES
50, boul. Lamaque, VAL D'OR (Québec) J9P 2H5 Tél. : (819) 825-6529 Fax : (819) 825-1342

# TABLE OF CONTENTS

Page



## LIST OF FIGURES:



## LIST OF MAPS:

| DRAWING NO. | INDUCED POLARIZATION |
|---|---|
| 4.2 | Resistivity Contours (filter) |

**CHAMPION BEAR RESOURCES LIMITED**

**BEARTRACK LAKE Project**

**Figure #1: Index of claims**

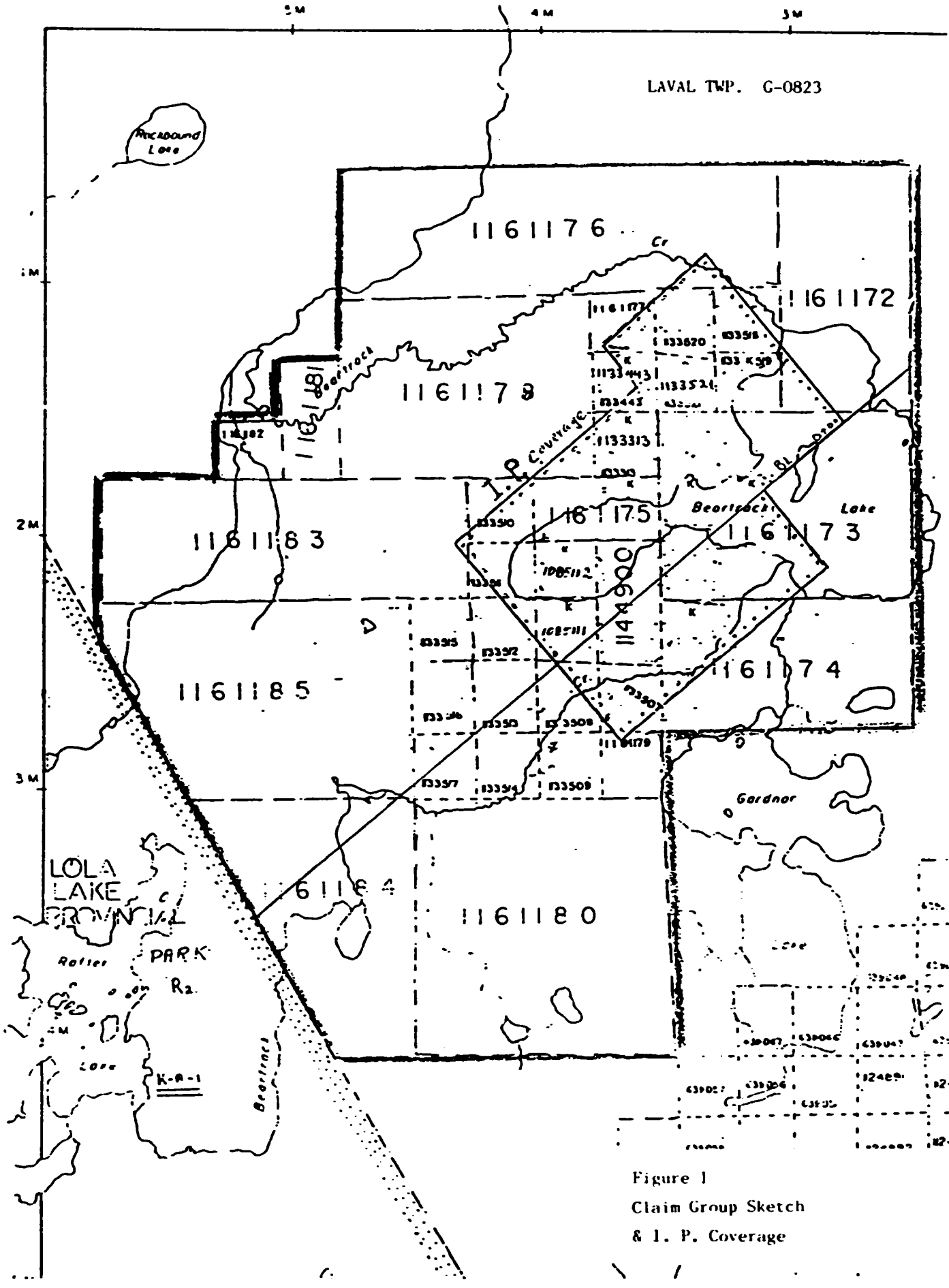



Figure 1
Claim Group Sketch
& I. P. Coverage

CHAMPION BEAR RESOURCES LTD.

BEARTRACK LAKE PROJECT

LAVAL TWP. G-0823

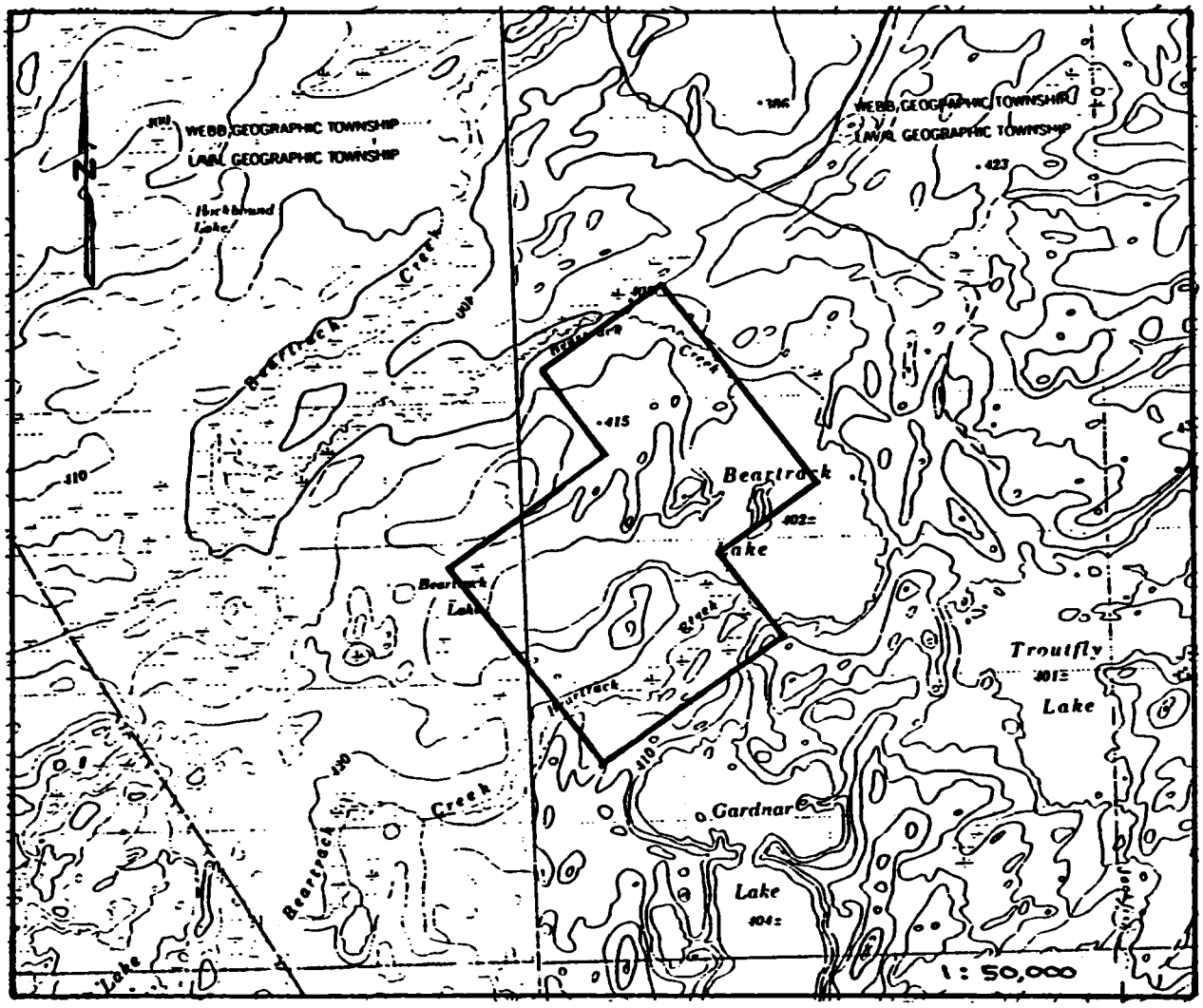
LIST OF CLAIMS

| CLAIM NO: | I.P. COVERAGE | CLAIM NO: | I.P. COVERAGE |
|---|---|---|---|
| K1085111 | X | K1133520 | X |
| K1085112 | X | K1133521 | X |
| K1133313 | X | K1144900 | X |
| K1133443 | X | K1161172 | |
| K1133507 | X | K1161173 | X |
| K1133508 | X | K1161174 | X |
| K1133509 | | K1161175 | X |
| K1133510 | X | K1161176 | X |
| K1133511 | X | K1161177 | X |
| K1133512 | X | K1161178 | X |
| K1133513 | | K1161179 | |
| K1133514 | | K1161180 | |
| K1133515 | | K1161181 | |
| K1133516 | | K1161182 | |
| K1133517 | | K1161183 | |
| K1133518 | X | K1161184 | |
| K1133519 | X | K1161185 | |
| 16 CLAIMS | 11 - I.P. | 16 CLAIMS | 9 - I.P. |

TOTAL NUMBER OF CLAIMS - 32

TOTAL NUMBER OF CLAIMS

WITH I.P. COVRAGE - 20




CHAMPION BEAR RESOURCES LIMITED

BEARTRACK LAKE Project

Figure #2: Area surveyed

## INTRODUCTION

In January 1992, an induced polarization survey was carried out on a property owned by CHAMPION BEAR RESOURCES LIMITED, BEARTRACK LAKE Project, Laval Township, Province of Ontario.

This survey was designed to locate structures favorable for gold or base metal deposition.

## PROPERTY, LOCATION AND ACCESS

The property is located approximately 30 kms North-East of the town of Dryden, in Laval Township, Province of Ontario.

The property is accessible by trails and lake which can be taken from the highway #72.

The property claims have been registered with the Ontario Department of Natural Resources and the number are presented on the figure #1 of this report and on plan map in pocket.

## GEOPHYSICAL SURVEYS

An induced polarization survey was carried out on part of the property from January 7th to 30th, 1992.

The induced polarization survey was conducted over a total of 43.0 kms using the PHOENIX IPT-1, MG-1 transmitter and the BRGM IP-6 receiver.

SURVEY SPECIFICATIONS

The geophysical survey was carried out along a network of North West - South East picket line cut at 100 metres intervals. The lines were chained and stations marked at 25 metres intervals.

The I.P. survey has been done with a dipole-dipole array. The electrodes separation (X) was 25 metres with measurements of N = 1 to 6.

RESULTS AND INTERPRETATION

The apparent resistivities measured in this induced polarization survey are dominated by variations of the overburden nature and/or thickness, as well as areas of near surface bedrock lithologies. In areas of thin and sandy overburden and outcropping lithologies, the values range from 1000 to over 30000 ohm-metres, whereas they reached as low as 100 ohm-metres in areas of clay-rich and/or deeper overburden.

A large section of the survey area is overlaid by bottom lake unconsolidated sediments which show apparent resistivities generally ranging between 30 and 70 ohm-metres, with some values as low as 10 ohm-metres.

The measured chargeabilities are generally defined by background values less than 1 mV/V. In areas of sub-outcropping lithologies, the background values are also very low and may vary according to the various rock units. On this property, it is very difficult to estimate and to ascertain the values of anomalous chargeabilities (cause by polarizable materials) from "lithologic" or inherent chargeabilities.

In areas covered with sandy overburden or bottom lake unconsolidated sediments, several chargeability values are negative (especially at larger dipole spacings) and/or noisy to extremely noisy. These values are related to very low primary voltage at the potential electrodes, with very low signal-to-noise ratios.

Thus, chargeability values in sandy areas must be interpreted cautiously. In areas covered by the lake (unconsolidated sediments), it appears that the survey was unsuccessfull in detecting any polarization effects (as can be seen by the "blank" areas with anomalous zones on both sides of the lake). As several of the strong anomalous polarization zones are narrow, these observations are not surprising since deeper and/or more conductive overburden necessitate larger electrode separation. (However, with larger electrode separations, such as 50 metres, narrow sources may not be detected.)

Several anomalous chargeability responses were detected in this survey on both sides of the lake. These anomalies greatly vary in their characteristics, with values ranging from 1 to 30 mV/V, and some values reaching over 40 mV/V. Two distinct groups of anomalies are defined, one group of anomalies probably caused by the presence of sub-outcropping lithologies ("lithologic" anomalies), and the second probably caused by polarizable materials (such as disseminated sulphides).

The first group of anomalies are characterized by chargeability values ranging from 1 to 10 mV/V, are narrow and most often in areas of conductive overburden (for anomalies with very low values, 1 to 3 mV/V), or broad and in areas of sub-outcropping lithologies (for anomalies from 3 to 10 mV/V). These anomalous zones are always near surface.

The second group of anomalies is characterized by chargeability values generally ranging above 10 mV/V, are either narrow for most of them, or moderately broad (exceptionally up to 100 metres). These zones are labelled A to M on the interpretation map. Most of the anomalies are near surface, with the notable exception of I, and are trending NE-SW, in accordance with the local lithologies.

It is noteworthy that none of the detected polarization anomalies is conductive. This may point to the absence of graphitic sources and underline the imperative of testing all probable polarization anomalies.

Several of the anomalous zones are anastamozing along their trend, such as D/F/G and H/L; others may lie along the same lithotectonic feature, such as A/C/E/K? and D/F/L. Carefull correlation of these induced polarization results with other geophysical databases (such as magnetics) and geological information may help to sort out their lithotectonic setting.

It appears that the anomalous sources A, C, E and J may be caused by the disseminated sulphide mineralizations (with precious and/or base metals values) observed on the property. These mineralizations are associated with apparently concordant quartz veins that traversed the survey area. They certainly deserved priority for further exploration work (drilling).

It is suggested to drill test anomaly A on line 13+00W, anomaly C on line 8+50W, anomaly E on line 1+00E, and anomaly J on line 7+00E. With the exception of J, these zones are mostly narrow and of moderate amplitude (10 to 17 mV/V).

Some of the stronger anomalous zones (D, F, H, K, L and M) should also be tested in their best section, either where they are broader or stronger. Anomalies D, H and L would be good candidates: D on line 1+00W or 2+00W; H on line 1+00E or 2+00E; and L on line 6+00E.

Anomalies B, G and I should be estimated with other geoscientific information before testing.

## CONCLUSION AND RECOMMENDATIONS

The induced polarization survey performed on the BEARTRACK LAKE Project permitted to detect several weak to very strong anomalous polarization responses. These sources are all non conductive. They are grouped under to types of sources, either caused by outcrop/overburden features, or by anomalous bedrock sources (labelled A to M).

It is recommended to drill test four of the anomalous bedrock sources which are probably caused by known disseminated sulphide mineralizations hosted in quartz veins and enriched in precious and/or base metal values. These zones are labelled A, C, E and J.

Other sources may also merit further testing by drilling, especially where they are broader and/or stronger (such as D, H and L). The other sources should be correlated with other geoscientific information for prioritization.

Respectfully submitted,
VAL D'OR GEOPHYSIQUE LTEE

By:
Paul Lortie, P.Eng
Geophysicist

And by:
Robert Turcotte, B.Sc.A.

# CERTIFICATE

THIS IS TO CERTIFY THAT:

I reside at 681 Boulle, Beloeil, province of Quebec, since 1990.

I am a graduate of Ecole Polytechnique, Universite de Montreal, where I have received a B.Sc.A. in Geological Engineering in 1979.

I have been engaged in exploration geophysics since 1977, have been practicing as a professional engineer since 1979, and have been a consulting geophysicist since 1989.

I am a member of the Ordre des Ingenieurs du Quebec since 1979.

I am a member of the Society of Exploration Geophysicists, the Prospectors & Developers Association of Canada, the Quebec Prospectors Association, the Association des Professionnels en Geologie et Geophysique du Quebec, the Societe de Geophysique du Quebec and the Canadian Institute of Mining & Metallurgy.

I do not hold nor do I expect to receive an interest of any kind in the properties held by CHAMPION BEAR RESOURCES LIMITED, on the BEARTRACK LAKE Project.

Signed in Beloeil, this February 18, 1992.

By: 

Paul Lortie, P.Eng.
Consulting Geophysicist.

## CERTIFICATE

THIS IS TO CERTIFY THAT:

I am a resident of Val d'Or, province of Quebec, since 1977.

I am a technologist graduated from "College du Nord-Ouest", Rouyn-Noranda, Quebec in 1977.

I have been actively engaged in geophysical exploration since 1977 and have acquired a wide range of experience in geophysical methods and techniques.

I am a member of "Corporation professionnelle des Technologues des Sciences Appliquees du Quebec" and also a member of the Quebec Prospectors Association and of the Canadian Institute of Mining and Metallurgy.

I do not hold nor do I expect to receive an interest of any kind in this property held by CHAMPION BEAR RESOURCES LIMITED.

Signed in Val d'Or, this February 18, 1992.

By:

Robert Turcotte, T.Sc.A




# SUMMARY REPORT

on the

# DIAMOND DRILL PROGRAM

February, 1992

CHAMPION BEAR RESOURCES LTD.

BEARTRACK LAKE PROJECT

Kenora Mining Division, Ontario

by

L.C. Chastko
H.W. Petak

Consulting Geologists
Independent Exploration Service Ltd.

June 30, 1992

LOCATION & ACCESS:

The Beartrack Lake property centers about 18 km ENE from the Dryden municipal airport (Fig.1) and is located in NTS area 52F/16SW, in the LAVAL TOWNSHIP of NW-ONTARIO . The southwest end of the property borders the "Lola Lake Provincial Nature Reserve Park".

Beartrack Lake is accessible by land via the GHOST LAKE ROAD (starting at the Dryden airport) and an old logging road branching off from it. The driving distance from the [redacted] of Dryden is 41 km.

town.

PROPERTY STATUS:

The BEARTRACK LAKE PROPERTY is comprised of a total of 33 contiguous mining claims encompassing an area of 2,123 Hectare (5,258 acres). It is situated in LAVAL TOWNSHIP eastnortheast of Dryden, within the KENORA MINING DIVISION. The location of the claims is shown on attached MAP #1: CLAIM MAP, LAVAL TOWNSHIP, # G-0823 . Appendix "A" of this report presents a listing of all the claims by their claim number.

The REGISTERED HOLDER of the mineral rights of these claims is:

CHAMPION BEAR RESOURCES LTD.
3805 - 7A STREET S.W.
CALGARY, ALBERTA
T2T 2Y8
PHONE: (403) 263 2190

---

CLT # 116945

The official ONTARIO REPRESENTATIVE of CHAMPION BEAR RESOURCES LTD. is:

BORDEN & ELLIOT
BANK OF COMMERCE BUILDING
250 UNIVERSITY AVE.
TORONTO, ONTARIO
M5H 3E9

## EXPLORATION HISTORY

A detailed account of the exploration history of the area, including the property discussed in this report, is included in ONTARIO GEOLOGICAL SURVEY REPORT 272 (B.R.BERGER, 1990). "Intense exploration activity", involving a number of companies, is reported to have occurred during the period from 1946 to 1952. The search was for gold and resulted in the discovery of the Goldlund deposit and significant showings at Troutfly Lake and Beartrack Lake. The Beartrack Lake gold showings, referred to as the "GRAHAM BOUSQUET No.1 and No.2 SHOWINGS" (B.R.BERGER, 1990), after remaining dormant since 1952, were restaked in 1989 by the prospectors B. Fairservice, A. Glatz, and J. Riives. Significant gold assays from a diamond drill program back in 1950-51 and from surface samples taken during prospecting work carried out by above mentioned individuals, prompted CHAMPION BEAR RESOURCES LTD. from Calgary, Alberta, to option the property and carry out a full scale exploration program. Reported assay values for gold range up to better than 1.0 oz/t.

A number of different geological survey teams have over time carried out various mapping programs in the region including Laval Township. Detailed reference to earlier such programs and results from these can be found in the latest OGS REPORT 272, "Precambrian Geology Laval and Hartman Townships", by B.R.BERGER, 1990.

The Beartrack Lake property was also covered by an airborne geophysical survey flown by Geoterrex Limited under contract of the Ontario Geological Survey. The property area is contained in Map 80959 which was part of an airborne data release by the Ministry of Northern Development and Mines of Ontario in 1987.

## CONCLUSIONS

1). Eleven diamond drill holes for a total footage of 3,703 feet was carried out.

2). Drill holes 3, 4, 8, 9 & 10 were drilled to test an I.P. responses in the immediate vicinity of a high grade surface Au occurrence.

A number of mineralized shear zones were intersected, but these generally contained anomalous Au mineralization in the order of several hundred ppb Au.

Drill hole 9 intersects 8515 ppb Au over a core length of 1.0 feet.

None of the above zones appear to correlate with the surface occurrence.

A strong possibility is that the structure and geometry of the known occurrence is complex and may have been missed by these drill holes.

## RECOMMENDATIONS

1). The entire gridded area be mapped and prospected.

2). All known occurrences be stripped examined, mapped and sampled in detail.

3). Areas of anomalous I.P. response be prospected and sampled in detail.

4). The project be re-evaluated at the end of above program.

5). Top priority targets be tested by diamond drilling. The amount of drilling and location of holes to be determined after completion of above program.

## INTRODUCTION

During February of 1992, eleven drill holes totalling 3,705 feet were drilled.

The drill holes were put down and test:

a). a known zone of Au mineralization located at approximately L8+50 West; 0+25 North.

b). a number of I.P. anomalies located near the known zone of Au mineralization.

This drill program was aimed at testing only several select targets and to help establish a better appreciation and understanding of the mineralization in the area.

GENERAL GEOLOGY:

All bedrock underlying Laval Township is Archean in age and is within the Wabigoon Subprovince of the Superior Province in the Canadian Shield. "Supracrustal lithologies" make up about "80%" of the rocks "and are composed of mafic, intermediate and felsic metavolcanics, related subvolcanic intrusions composed of gabbroic sheets and dikes, feldspar- and quartz-feldspar-phyric dikes, and clastic and chemical metasediments" (B.R.BERGER, 1990). The remaining 20% consist of felsic plutonic assemblages like granodiorite, quartz monzonite, granite, and tonalite which intruded the supracrustal metavolcanic and metasedimentary sequences. These plutons occur as distinct stocks like the Gardnar Lake stock whose contact lies along the southeastern property boundary.

Referring to Chorlton (1987), B.R. BERGER, 1990, describes the tectonic history of the area as being characterized by three major distinct stages of deformation.

1.) A synvolcanic stage produced "gently dipping structures" (foliations, fold axes, lineations, and shear zones) in the volcanic sequences.

2.) A synplutonic stage developed "steeply plunging lineations and foliations" around the intrusive stocks.

3.) A syn- to postplutonic (?) stage created "upright folds in the supracrustal rocks, steepening and refolding of the earlier structures and creation of steeply dipping easterly to northeasterly trending shear zones".

B.R. BERGER, 1990, notes that "gold mineralization is localized in third stage deformational structures which are prospective exploration targets especially where they have fractured and flexed structurally competent bodies".

A Table summarizing the lithologic units mapped in the Laval and Hartman Townships in the Dryden area is included in Appendix "B" of this report.

# Appendix A

CHAMPION BEAR RESOURCES LTD
BEARTRACK LAKE PROJECT
LAVAL TWP G-0823

LIST OF CLAIMS

CLAIM NO:

K1085111
K1085112
K1133313
K1133443
K1133507
K1133508
K1133509
K1133510
K1133511
K1133512
K1133513
K1133514
K1133515
K1133516
K1133517
K1133519
K1133520
K1133521
K1144900
K1161172
K1161173
K1161174
K1161175
K1161176
K1161177
K1161178
K1161179
K1161180
K1161181
K1161182
K1161183
K1161184
K1161185

Appendix B

TABLE 1. TABLE OF LITHOLOGIC UNITS FOR THE LAVAL AND HARTMAN TOWNSHIPS AREA.

PHANEROZOIC

CENOZOIC

QUATERNARY

RECENT

Swamp, lake and stream deposits

*Unconformity*

PRECAMBRIAN

ARCHEAN

LATE ARCHEAN

MAFIC INTRUSIONS

*Lamprophyre dikes.*

EARLY TO LATE ARCHEAN

FELSIC INTRUSIONS

Granodiorite, granite, tonalite, quartz monzonite, monzonite, quartz diorite, monzogabbro, pegmatite, aplite.

MAFIC INTRUSIONS

Gabbro, diorite, leucogabbro, plagioclase-phyric gabbro, quartz diorite, gabbroic dikes, altered gabbro.

CLASTIC AND CHEMICAL METASEDIMENTS

Wacke, siltstone, mafic wacke, pebbly wacke, argillaceous, phyllitic and biotite-muscovite-quartz schist, hornblende-garnet-biotite amphibolite, sulphide-magnetite and magnetite ironstone, chert, and metatexite.

FELSIC TO INTERMEDIATE METAVOLCANICS

Massive, spherulitic and autobrecciated flows, tuff and crystal tuff, lapilli tuff, breccia, feldspar, quartz and quartz-feldspar-phyric dikes, quartz-muscovite schist.

HORNBLENDE-PHYRIC MAFIC TO INTERMEDIATE METAVOLCANICS

Massive and pillowed flows, tuff and crystal tuff, lapilli tuff and lapillistone, tuff breccia and breccia, pillow breccia, chlorite schist, basaltic dikes and sills.

MAFIC METAVOLCANICS

Massive, pillowed and variolitic flows, pillow breccia, tuff, lapilli tuff and lapillistone, breccia and tuff breccia, basaltic dikes and sills, amphibolite, talc-chlorite and talc-chlorite-carbonate schist, plagioclase-phyric flows.

(after: B.R.BERGER, 1990)

# CHAMPION BEAR RESOURCES LTD.

# BEARTRACK LAKE PROJECT

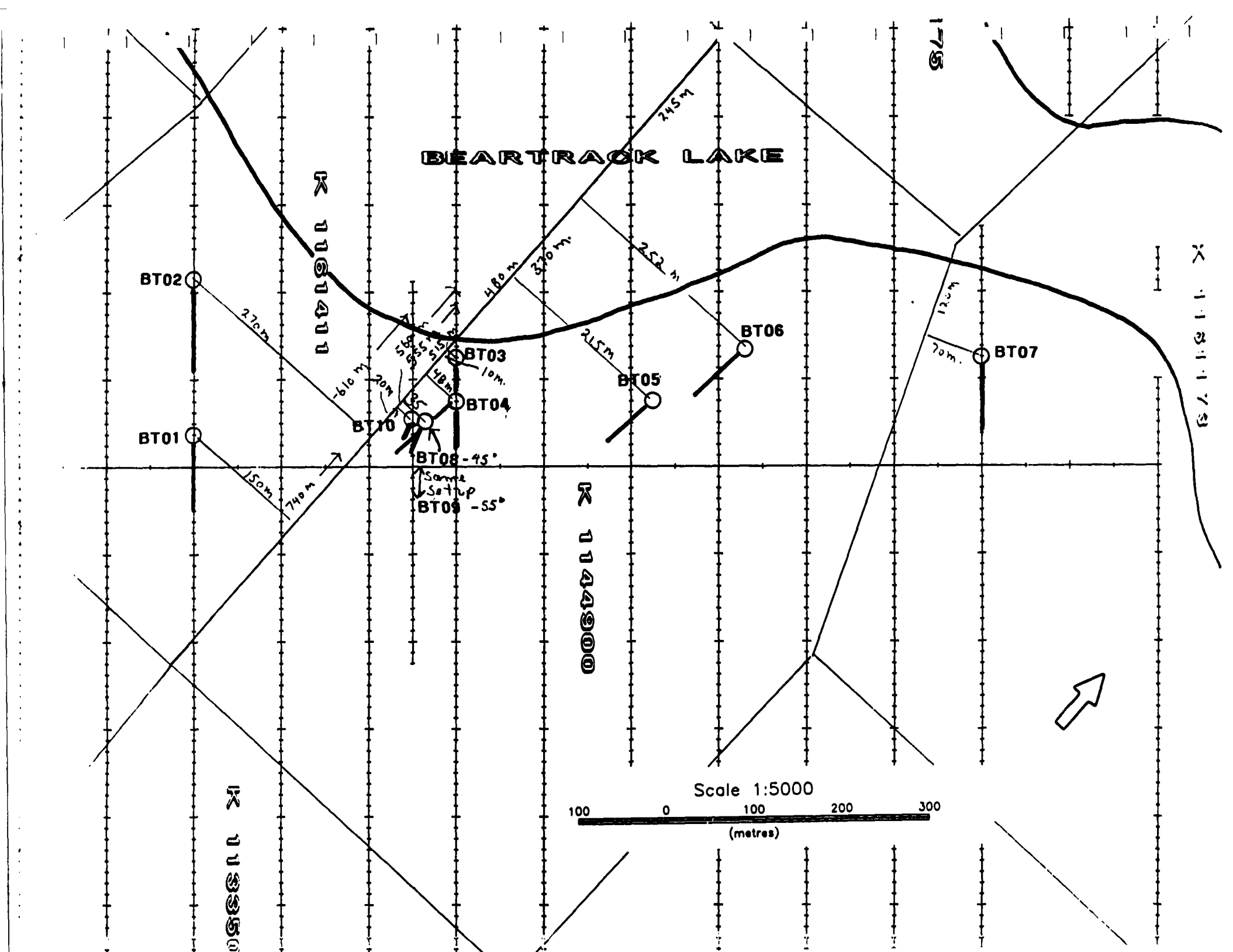
# DIAMOND DRILL LOGS

# 1991 - 1992

SUMMARY OF DRILL DATA ON BORSURV FILES AT BearTrack Lake

| Hole No. | Grid Name | Eastings | Northings | Elevation | Units | Dip | Grid Bearing | Depth | Wedges | Litho Units | No. of Assays | Averaged Zones Total | Averaged Zones Used | Elements |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | METERS | | | | | | FEET | | | | | | |
| BT01 | BearTrack | -1100.00 | 40.00 | 0.00 | feet | -45.00 | 180.00 | 406.00 | 0 | 0 | 5 | 0 | 0 | 10(Sample, Au(ppb), Cu(ppm), Pb(ppm), Zn(ppm), Ag(ppm), Ni(ppm), Mn(ppm), Fe(%), As(ppm)) |
| BT02 | BearTrack | -1100.00 | 215.00 | 0.00 | feet | -45.00 | 180.00 | 406.00 | 0 | 0 | 29 | 0 | 0 | 10(Sample, Au(ppb), Cu(ppm), Pb(ppm), Zn(ppm), Ag(ppm), Ni(ppm), Mn(ppm), Fe(%), As(ppm)) |
| BT03 | BearTrack | -800.00 | 125.00 | 0.00 | feet | -45.00 | 180.00 | 406.00 | 0 | 0 | 21 | 0 | 0 | 10(Sample, Au(ppb), Cu(ppm), Pb(ppm), Zn(ppm), Ag(ppm), Ni(ppm), Mn(ppm), Fe(%), As(ppm)) |
| BT04 | BearTrack | -800.00 | 80.00 | 0.00 | feet | -45.00 | 231.00 | 426.00 | 0 | 0 | 21 | 0 | 0 | 10(Sample, Au(ppb), Cu(ppm), Pb(ppm), Zn(ppm), Ag(ppm), Ni(ppm), Mn(ppm), Fe(%), As(ppm)) |
| BT05 | BearTrack | -575.00 | 75.00 | 0.00 | feet | -45.00 | 231.00 | 327.00 | 0 | 0 | 5 | 0 | 0 | 10(Sample, Au(ppb), Cu(ppm), Pb(ppm), Zn(ppm), Ag(ppm), Ni(ppm), Mn(ppm), Fe(%), As(ppm)) |
| BT06 | BearTrack | -475.00 | 135.00 | 0.00 | feet | -45.00 | 231.00 | 355.00 | 0 | 0 | 11 | 0 | 0 | 10(Sample, Au(ppb), Cu(ppm), Pb(ppm), Zn(ppm), Ag(ppm), Ni(ppm), Mn(ppm), Fe(%), As(ppm)) |
| BT07 | BearTrack | -200.00 | 125.00 | 0.00 | feet | -45.00 | 231.00 | 396.00 | 0 | 0 | 9 | 0 | 0 | 10(Sample, Au(ppb), Cu(ppm), Pb(ppm), Zn(ppm), Ag(ppm), Ni(ppm), Mn(ppm), Fe(%), As(ppm)) |
| BT08 | BearTrack | -839.00 | 58.00 | 0.00 | feet | -45.00 | 201.00 | 166.00 | 0 | 0 | 3 | 0 | 0 | 10(Sample, Au(ppb), Cu(ppm), Pb(ppm), Zn(ppm), Ag(ppm), Ni(ppm), Mn(ppm), Fe(%), As(ppm)) |
| BT09 | BearTrack | -739.00 | 60.00 | 0.00 | feet | -55.00 | 201.00 | 126.00 | 0 | 0 | 7 | 0 | 0 | 10(Sample, Au(ppb), Cu(ppm), Pb(ppm), Zn(ppm), Ag(ppm), Ni(ppm), Mn(ppm), Fe(%), As(ppm)) |
| BT10 | Beartrack | -650.00 | 55.00 | 0.00 | feet | -45.00 | 201.00 | 125.00 | 0 | 0 | 1 | 0 | 0 | 10(Sample, Au(ppb), Cu(ppm), Pb(ppm), Zn(ppm), Ag(ppm), Ni(ppm), Mn(ppm), Fe(%), As(ppm)) |
| BT11 | BearTrack | -1200.00 | -625.00 | 0.00 | feet | -45.00 | 180.00 | 406.00 | 0 | 0 | 22 | 0 | 0 | 10(Sample, Au(ppb), Cu(ppm), Pb(ppm), Zn(ppm), Ag(ppm), Ni(ppm), Mn(ppm), Fe(%), As(ppm)) |

Total Holes: 11  Total depth: 3705.00  Total assays: 134


BEARTRACK LAKE
K 1161411
K 1144800
K 1135350
K 1131178
BT01
BT02
BT03
BT04
BT05
BT06
BT07
BT08 -45°
BT09 -55°
BT10
270m
610m
740m
150m
480m
370m.
252m
215m
245m
48m
10m.
20m
70m.
Same Setup
Scale 1:5000
100 0 100 200 300
(metres)

# CHAMPION BEAR RESOURCES LTD.

## DIAMOND DRILL LOG

PROPERTY: Bear Track Lake
HOLE No.: BT01
Collar Eastings: -1100.00
Collar Northings: 40.00
Collar Elevation: 0.00
Grid: Bear Track

Collar Inclination: -45.00
Grid Bearing: 0.00
Final Depth: 406.00 feet

Logged by: H. Petak
Date: Feb. 19-22, 1992
Down-hole Survey:

| FROM | TO | LITHOLOGICAL DESCRIPTION |
|---|---|---|
| 0 | 11 | (CASING) |
| 11 | 406 | (ANDESITE) |
| | | Dark green to dark greyish green colour; mostly vfg chl, variable amounts of fldsp, very little qtz; Foliation is moderately to well developed with angles of 25 to 30 deg to ca. Carb veinl occur quite frequ throut the sect. |
| | | 28.4 - 50.5 incr amt carb veinl, mostly parll to sub-parll to fol, minor crosscut; |
| | | 45.8 - 49.6 Fin1 dissem py, mostly parll fol; |
| | | 78 - 102 SHEAR ZONE with sporadic dissem of fg py (< 5%) incl 0.25" band of semi-mass py in one shear; |
| | | 121.5 - 126 strong shearing and fragmentation, no min; |
| | | 139 & 140 shears, no min; |
| | | 156 3" qtz vein, white, no min; |
| | | 167 1.5" qtz vein, white, no min; |
| | | 167.8 - 170 dissem py (< 5%) mostly along fol; |
| | | 183.5 0.25" qtz vein, white, no min; |
| | | 195 - 196 shear, no min; |
| | | 257 1" dissem py (< 5%); |
| | | 306 shear, no min; |
| | | 336 - 350.6 fracture zone, no min; |
| | 406. | (END OF HOLE) |

| ASSAYS | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FROM | TO | WIDTH | Sample | Au(ppb) | Cu(ppm) | Pb(ppm) | Zn(ppm) | Ag(ppm) | Ni(ppm) | Mn(ppm) | Fe(%) | As(ppm) |
| 0.00 | 45.80 | 45.80 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 45.80 | 49.60 | 3.80 | 4101 | 15 | 24 | 17 | 68 | 0.1 | 71 | 776 | 5.00 | 37 |
| 49.60 | 100.50 | 50.90 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 100.50 | 101.50 | 1.00 | 4102 | 29 | 86 | 9 | 46 | TRACE | 108 | 411 | 4.32 | 19 |
| 101.50 | 406.00 | 304.50 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |

# CHAMPION BEAR RESOURCES LTD.

## DIAMOND DRILL LOG

PROPERTY: BearTrack Lake
HOLE No.: BT02
Collar Eastings: -1100.00
Collar Northings: 215.00
Collar Elevation: 0.00
Grid: BearTrack

Collar Inclination: -45.00
Grid Bearing: 180.00
Final Depth: 486.00 feet

Logged by: H. Petak
Date: Feb. 22-27, 1992
Down-hole Survey:

| FROM | TO | LITHOLOGICAL DESCRIPTION |
|---|---|---|
| 0 | 107 | (CASING) |
| 107 | 296.2 | (ANDESITE)<br>Dark green to greyish green colour; generally vfg with mod to well devel foliation at 30 to 45 deg to ca; mainly chl (after hbl ?), minor fldsp, little qtz; in places some lge ture;<br>SULFIDE MINERALIZATION is quite wide-spread throughout the section consisting mostly of fine dissem py and minor po, incl occl narrow (up to few inch wide) stringers to semi-mass bands. The stringers often occur with turn. Also fairly common are vfg dissem of sph.<br>ALTERATION zones of 1 to 2 ft in length, consisting of feld spathization and carbonatization, can be noted occas. Carb frequ occurs as fracture fillings.<br>127 - 130.5 < 3% dissem py, incl 5 - 10% from 127 - 127.5;<br>138.7 - 148.6 < 3% fine dissem py;<br>151 - 153.6 strong SHEAR ZONE; no min;<br>164.3 - 164.7 5 - 10% py assoc w turn and sph;<br>165.5 - 168.3 fine dissem py<br>175.8 - 177.1 < 5% dissem py incl heavy stringer at 176.7;<br>205 - 206.5 < 5% dissem py;<br>228.3 - 234.3 < 3% dissem py, incl heavy stringer at 231.4; a 1" qtz vein at 233.5 contains some py (< 5%);<br>234.6 - 235.2 qtz vein, no min;<br>241 5" qtz vein, no min;<br>244.5 - 248.7 < 3% dissem py, incl 0.25" of 50% py at 245; |
| 296.2 | 486 | (DIORITE)<br>Medium grey colour; m- to fg; massive to poorly fol; in places the texture suggests micro-brecc.<br>303 - 304 < 1% dissem py, incl 0.5" of 30% py;<br>334.3 - 337 5 - 10% py in SHEAR ZONE;<br>370.4 - 372.8 dissem py on both sides of a 1" qtz filled shear<br>377.2 - 381 heavy FRACTURE ZONE with brecc containing fine dissem py (< 10%);<br>392.5 - 400.5 strong DEFORMATION ZONE (fold & brecc) with up to 40% py; |

| ASSAYS | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FROM | TO | WIDTH | Sample | Au(ppb) | Cu(ppm) | Pb(ppm) | Zn(ppm) | Ag(ppm) | Ni(ppm) | Mn(ppm) | Fe(%) | As(ppm) | |
| 0.00 | 127.00 | 127.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| 127.00 | 130.50 | 3.50 | 4103 | 11 | 9 | 14 | 63 | TRACE | 74 | 512 | 3.23 | 13 | |
| 130.50 | 138.70 | 8.20 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| 138.70 | 148.60 | 9.90 | 4104 | 41 | 19 | 14 | 152 | 0.6 | 78 | 867 | 3.16 | 20 | |
| 148.60 | 164.30 | 15.70 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| 164.30 | 164.70 | 0.40 | 4105 | 177 | 75 | 14 | 62 | 2.1 | 153 | 799 | 5.06 | 125 | |
| 164.70 | 165.50 | 0.80 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| 165.50 | 168.30 | 2.80 | 4106 | 7 | 19 | 8 | 69 | TRACE | 65 | 700 | 3.50 | 20 | |
| 168.30 | 175.80 | 7.50 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| 175.80 | 177.10 | 1.30 | 4107 | 21 | 117 | 21 | 137 | 0.5 | 76 | 620 | 7.41 | 32 | |
| 177.10 | 205.00 | 27.90 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| 205.00 | 206.50 | 1.50 | 4108 | 11 | 57 | 10 | 216 | TRACE | 73 | 805 | 6.17 | 114 | |
| 206.50 | 228.30 | 21.80 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| 228.30 | 234.30 | 6.00 | 4109 | 13 | 30 | 14 | 37 | TRACE | 63 | 321 | 2.29 | 16 | |
| 234.30 | 244.50 | 10.20 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| 244.50 | 248.70 | 4.20 | 4110 | TRACE | 49 | 12 | 170 | 0.7 | 57 | 753 | 6.98 | 18 | |
| 248.70 | 303.00 | 54.30 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| 303.00 | 304.00 | 1.00 | 4111 | 69 | 57 | 10 | 216 | TRACE | 73 | 805 | 6.17 | 114 | |
| 304.00 | 334.30 | 30.30 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| 334.30 | 337.00 | 2.70 | 4112 | TRACE | 37 | 11 | 23 | TRACE | 50 | 573 | 1.68 | 8 | |
| 337.00 | 370.40 | 33.40 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| 370.40 | 372.80 | 2.40 | 4113 | TRACE | 30 | 14 | 37 | TRACE | 63 | 321 | 2.29 | 16 | |
| 372.80 | 377.30 | 4.50 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| 377.30 | 381.00 | 3.70 | 4114 | TRACE | 17 | 16 | 91 | TRACE | 85 | 936 | 3.51 | 3 | |
| | 381.00 | 392.50 | 11.50 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 392.50 | 400.50 | 8.00 | 4115 | 213 | 30 | 14 | 37 | TRACE | 63 | 321 | 2.29 | 16 | |
| | 400.50 | 454.00 | 53.50 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |

# CHAMPION BEAR RESOURCES LTD.

DIAMOND DRILL LOG

PROPERTY: BearTrack Lake
HOLE No.: BT02



| FROM | TO | LITHOLOGICAL DESCRIPTION | FROM | TO | WIDTH | Sample | ASSAYS Au(ppb) | Cu(ppm) | Pb(ppm) | Zn(ppm) | Ag(ppm) | Ni(ppm) | Mn(ppm) | Fe(%) | As(ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 454 - 458 | < 2% fine disseminated py, incl a massive and semi-massive band at 454.5 and 457 resp; | 454.00 | 458.00 | 4.00 | 4116 | 203 | 95 | 11 | 188 | 0.1 | 33 | 416 | 5.09 | 64 | |
| | | | | 458.00 | 486.00 | 28.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| | 486. | (END OF HOLE) | | | | | | | | | | | | | | |

# CHAMPION BEAR RESOURCES LTD.

## DIAMOND DRILL LOG

PROPERTY: BearTrack Lake
HOLE No.: BT03
Collar Eastings: -800.00
Collar Northings: 125.00
Collar Elevation: 0.00
Grid: BearTrack

Collar Inclination: -45.00
Grid Bearing: 180.00
Final Depth: 486.00 feet

Logged by: H. Petak
Date:
Down-hole Survey:

| FROM | TO | LITHOLOGICAL DESCRIPTION | FROM | TO | WIDTH | Sample | Au(ppb) | Cu(ppm) | Pb(ppm) | Zn(ppm) | Ag(ppm) | Ni(ppm) | Mn(ppm) | Fe(%) | As(ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ASSAYS | | | | | | | | | |
| 0 | 36 | (CASING) | | | | | | | | | | | | | | |
| 36 | 41 | (ANDESITE)<br>Grey to dark greenish grey, fg, fol, occas tuffac; containing occas disseo py; | 0.00 | 38.60 | 38.60 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| 41 | 357 | (DIORITE) | 38.60 | 41.40 | 2.80 | 4118 | 29 | 63 | 11 | 165 | 0.1 | 80 | 795 | 5.44 | 28 | |
| | | Very dark greenish grey to greyish, a- to cg, weak to mod fol at 40 to 45 deg to ca; hbl, chl (after hbl ?), fldsp, little qtz; in places evidence of consid brecc; | 41.40 | 47.50 | 6.10 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| | | | 47.50 | 48.50 | 1.00 | 4117 | 46 | 314 | 10 | 405 | 0.3 | 112 | 633 | 6.13 | 75 | |
| | | | 48.50 | 115.60 | 67.10 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| | | | 115.60 | 121.50 | 5.90 | 4119 | TRACE | 21 | 16 | 120 | TRACE | 33 | 641 | 4.83 | 18 | |
| | | 38.6 - 41.4 ( 3% disseo py incl band of 20% at 39.3; | 121.50 | 141.00 | 19.50 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| | | 47.5 - 48.5 weak to heavy disseo py in chloritic sect; mod magnetic due to fine disseo mgt; | 141.00 | 144.00 | 3.00 | 4120 | 124 | 347 | 18 | 122 | 0.4 | 85 | 1520 | 8.86 | 160 | |
| | | | | 144.00 | 225.80 | 81.80 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| | | 97.7 - 99 mafic dyke w ( 1% disseo py; | 225.80 | 226.60 | 0.80 | 4121 | 18 | 280 | 6 | 312 | 0.1 | 101 | 789 | 7.16 | 15 | |
| | | 106.0 - 109.7 andesitic section, vfg, v felsic veinlts and little fine disseo py; | | | | | | | | | | | | | | |
| | | 111.7 - 112 carbonate; | | | | | | | | | | | | | | |
| | | 115.6 - 121.5 mafic dyke, avg ( 3% py; incl felsic sect at 116 - 116.6 consist of pega and carb material and a 1" pega in the core part of dyke; py incrs to 5 - 10% in victy of both contacts to pega core; | | | | | | | | | | | | | | |
| | | 121.5 - 138 aylonitic texture; | | | | | | | | | | | | | | |
| | | 138 - 148 SHEAR ZONE with local graph and bands of semi-massive to massive py from 141 - 144; carbonate veining; | | | | | | | | | | | | | | |
| | | 169 - 171 mafic dyke, trc of disseo py; | | | | | | | | | | | | | | |
| | | 186.1 - 186.6 qtz vein w tura; | | | | | | | | | | | | | | |
| | | 225.8 - 226.6 mafic dyke with 5 - 10% py in the lower part; | | | | | | | | | | | | | | |
| | | 240 - 241 felsic dyke, fldsp; | | | | | | | | | | | | | | |
| | | 245.4 - 246 mafic dyke; | | | | | | | | | | | | | | |
| | | 246.8 - 249.2 mafic dyke; | | | | | | | | | | | | | | |
| | | 276.6 - 276.8 qtz vein with tura; | | | | | | | | | | | | | | |
| | | 276.8 - 277.5 ( 1% fine disseo py; | | | | | | | | | | | | | | |
| | | 281 - 282 mafic dyke with carb veinlts in center, trc of fine py in mafic part; | | | | | | | | | | | | | | |
| | | 355 1.5" qtz vein, no min; | | | | | | | | | | | | | | |
| 357 | 486 | (MAFIC VOLCANIGENIC ROCK) ANDES TO DAC COMP | 226.60 | 378.30 | 151.70 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |

# CHAMPION BEAR RESOURCES LTD.

## DIAMOND DRILL LOG

PROPERTY: BearTrack Lake
HOLE No.: BT03



| FROM | TO | LITHOLOGICAL DESCRIPTION |
|---|---|---|
| | | Dark greenish-grey, weak to mod foli; vfg disseo py (< 3%) throut most of the section; portions of the sect are weak to mod magnetic due to some disseo mgt; |
| | 360 | 4" qtz vein with tura; |
| | 363.5 | shear with 4" of 5 - 10% py at upper contact; |
| 370.3 | - 385.5 | heavy disseo and bands of semi-massive py; incl 2" qtz vein at 378.7; |
| 385.5 | - 396 | 3 - 5% fine disseo py; |
| 396 | - 406 | fine disseo py; |
| 406 | - 416 | fine disseo py; |
| 422 | - 426 | fine disseo py; |
| 426 | - 431 | fine disseo py; |
| 453 | - 456 | 5 - 10% disseo py; |
| 486. | | (END OF HOLE) |

ASSAYS

| FROM | TO | WIDTH | Sample | Au(ppb) | Cu(ppm) | Pb(ppm) | Zn(ppm) | Ag(ppm) | Ni(ppm) | Mn(ppm) | Fe(%) | As(ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 378.30 | 385.50 | 7.20 | 4122 | 391 | 198 | 17 | 662 | 0.4 | 127 | 830 | 6.77 | 84 | |
| 385.50 | 396.00 | 10.50 | 4123 | 7 | 104 | 8 | 134 | TRACE | 88 | 811 | 4.38 | 17 | |
| 396.00 | 406.00 | 10.00 | 4124 | 7 | 128 | 9 | 109 | 0.4 | 95 | 800 | 5.02 | 22 | |
| 406.00 | 416.00 | 10.00 | 4125 | 5 | 111 | 8 | 109 | 0.5 | 99 | 811 | 5.21 | 14 | |
| | 416.00 | 422.00 | 6.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| | 422.00 | 426.00 | 4.00 | 4126 | 5 | 67 | 10 | 121 | 0.2 | 86 | 831 | 4.49 | 15 |
| 426.00 | 431.00 | 5.00 | 4127 | 14 | 74 | 8 | 166 | 0.4 | 94 | 882 | 5.00 | 23 | |
| | 431.00 | 453.00 | 22.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 453.00 | 456.00 | 3.00 | 4128 | TRACE | 68 | 15 | 95 | TRACE | 68 | 625 | 5.09 | 13 | |
| 456.00 | 486.00 | 30.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |

# CHAMPION BEAR RESOURCES LTD.

## DIAMOND DRILL LOG

PROPERTY: BearTrack Lake
HOLE No.: BT04
Collar Eastings: -800.00
Collar Northings: 80.00
Collar Elevation: 0.00

Collar Inclination: -45.00
Grid Bearing: 231.00
Final Depth: 426.00 feet

Logged by: H. Petak
Date:
Down-hole Survey:

| FROM | TO | LITHOLOGICAL DESCRIPTION |
|---|---|---|
| 0 | 5 | (CASING) |
| 5 | 295 | (DIORITE) Dark grey to greenish-grey, fg to cg, in general weakly foliated with massive sections which are usually either very fine- or coarse-grained; mostly hbl and fldsp, some chl (after hbl ?), very little or no qtz; finely disseminated py (< 1%) throughout the section; frequent carb veining; |
| | 21.5 - 25 | SHEAR ZONE with up to 3% py; |
| | 31.3 - 32.2 | SHEAR ZONE with up to 3% py and carb filling; |
| | 40 - 42.4 | strong SHEAR sub-parall to core axis; carb filling, < 1% py; |
| | 85 - 86 | 5 - 10% py; 0.25" qtz vein at 85; |
| | 95 | 1" qtz vein; |
| | 97 - 98 | 2 qtz veins (2" and 1") with tura; |
| | 100 | 1" qtz vein; |
| | 104 - 104.6 | 3 - 5% disseminated py; |
| | 162 - 168 | SULFIDE ZONE with heavy disseminated py incl a 1" band of semi-massive py at 163.5 and a massive band at 165.4 - 166; |
| | 168 - 168.7 | qtz vein with tura; |
| | 183.8 - 185.5 | mafic dyke; |
| | 192.7 - 195 | fracture zone filled with qtz and carbonate; |
| | 216 | shear, no min; |
| | 244 - 245 | fracture zone, fractures filled with carbonate; some specks of py; |
| | 254.5 | 1" qtz vein with tura, some disseminated py below lower contact (< 3% py); |
| | 258 | 2" carbonate; |
| | 264 - 265 | qtz filled shear with some specks of py; |
| | 266 | 1" carbonate; |
| | 276.3 - 276.7 | felsic dyke, apple green; |
| | 289.8 - 290.4 | felsic dyke, same as above, some fine disseminated py below lower contact; |
| 295 | 426 | (ANDESITE) Dark green, fine grained, weakly to mod foliated, texture indicative of strong micro-breccia; |
| | 295 - 296.3 | FRACTURE ZONE, blocky; |

ASSAYS

| FROM | TO | WIDTH | Sample | Au(ppb) | Cu(ppm) | Pb(ppm) | Zn(ppm) | Ag(ppm) | Ni(ppm) | Mn(ppm) | Fe(%) | As(ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 21.50 | 21.50 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| 21.50 | 25.00 | 3.50 | 4129 | TRACE | 54 | 7 | 110 | TRACE | 74 | 505 | 3.00 | 3 | |
| 25.00 | 31.30 | 6.30 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| 31.30 | 32.20 | 0.90 | 4130 | TRACE | 43 | TRACE | 99 | TRACE | 111 | 746 | 3.75 | TRACE | |
| 32.20 | 85.00 | 52.80 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| 85.00 | 86.00 | 1.00 | 4131 | 23 | 108 | 4 | 245 | 0.2 | 95 | 970 | 7.97 | 20 | |
| 86.00 | 104.00 | 18.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| 104.00 | 104.80 | 0.80 | 4132 | 144 | 1116 | 4 | 813 | 0.7 | 136 | 970 | 7.97 | 20 | |
| 104.80 | 162.00 | 57.20 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| 162.00 | 168.00 | 6.00 | 4133 | 287 | 177 | 476 | 1688 | 3.3 | 168 | 623 | 7.74 | 170 | |
| | 168.00 | 253.80 | 85.80 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 253.80 | 255.00 | 1.20 | 4134 | 12 | 77 | 9 | 135 | 0.2 | 137 | 798 | 4.73 | 10 | |
| | 255.00 | 264.00 | 9.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 264.00 | 265.60 | 1.60 | 4135 | 5 | 38 | TRACE | 76 | TRACE | 106 | 840 | 3.72 | TRACE | |
| | 265.60 | 289.60 | 24.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 289.60 | 291.00 | 1.40 | 4136 | 7 | 178 | 8 | 80 | 0.6 | 96 | 707 | 5.08 | 13 | |
| 291.00 | 379.00 | 88.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| 379.00 | 381.00 | 2.00 | 4137 | TRACE | 81 | 6 | 88 | 0.4 | 101 | 793 | 4.77 | 9 | |
| 381.00 | 384.00 | 3.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| 384.00 | 386.00 | 2.00 | 4138 | 5 | 135 | 2 | 128 | 0.3 | 107 | 762 | 5.34 | 13 | |
| 386.00 | 426.00 | 40.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |

# CHAMPION BEAR RESOURCES LTD.

## DIAMOND DRILL LOG

PROPERTY: Bear Track Lake
HOLE No.: BT04



| FROM | TO | LITHOLOGICAL DESCRIPTION | FROM | TO | WIDTH | Sample | ASSAYS Au(ppb) | Cu(ppm) | Pb(ppm) | Zn(ppm) | Ag(ppm) | Ni(ppm) | Mn(ppm) | Fe(%) | As(ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 317.5 - 319 | injection of some felsic dyke material, same as above; | | | | | | | | | | | | | |
| | 324 | qtz, carb, tuff; | | | | | | | | | | | | | |
| | 325.7 | 2° qtz, carb, tuff; | | | | | | | | | | | | | |
| | 326 - 330 | 1 - 3% fine disseminated py; | | | | | | | | | | | | | |
| | 335.4 | 1.5° qtz and carb; | | | | | | | | | | | | | |
| | 337.3 - 337.8 | qtz, carb, tuff; | | | | | | | | | | | | | |
| | 367 - 370 | FRACTURE ZONE, blocky; | | | | | | | | | | | | | |
| | 376 | FRACTURE, blocky; | | | | | | | | | | | | | |
| | 379 - 381 | fine disseminated py above and below a 2° qtz vein at 380; | | | | | | | | | | | | | |
| | 384 - 386 | fine disseminated py; | | | | | | | | | | | | | |
| | 397 - 403 | very blocky, some core lost; | | | | | | | | | | | | | |
| | 420 | fracture, filled with carb and some very fine py | | | | | | | | | | | | | |
| | 426. | (END OF HOLE) | | | | | | | | | | | | | |

# CHAMPION BEAR RESOURCES LTD.

## DIAMOND DRILL LOG

PROPERTY: BearTrack Lake
HOLE No.: BT05
Collar Eastings: -575.00
Collar Northings: 75.00
Collar Elevation: 0.00
Grid: BearTrack

Collar Inclination: -45.00
Grid Bearing: 231.00
Final Depth: 327.00 feet

Logged by: H. Petak
Date:
Down-hole Survey:

| FROM | TO | LITHOLOGICAL DESCRIPTION |
|---|---|---|
| 0 | 10 | (CASING) |
| 10 | 327 | (DIORITE) |
| | | Dark greenish grey, generally medium to coarse grained, consisting of hbl, fldsp, some chl (after hbl ?), little or no qtz, poorly to mod foliated (30 to 45 deg to ca), in places massive; |
| | | 16.6 - 17.2 FRACTURE ZONE, no min; |
| | | 21.8 FRACTURE, NO MIN; |
| | | 43.2 - 44.7 < 5% disseo fine and some coarse py; |
| | | 160.5 - 164 FRACTURE ZONE; |
| | | 165 - 166 FRACTURE ZONE; |
| | | 204 - 216.4 andesitic, fine grained, weakly foliated, trc of disseo py (< 1%); |
| | | 240.5 - 241.5 mafic dyke; |
| | | 255.4 SHEAR; |
| | | 270 - 271 blocky; |
| | 327 | (END OF HOLE) |

| FROM | TO | WIDTH | Sample | ASSAYS Au(ppb) | Cu(ppm) | Pb(ppm) | Zn(ppm) | Ag(ppm) | Ni(ppm) | Mn(ppm) | Fe(%) | As(ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 43.20 | 43.20 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 43.20 | 44.70 | 1.50 | 4139 | 12 | 250 | 15 | 157 | 0.5 | 88 | 583 | 7.14 | 29 |
| 44.70 | 84.90 | 40.20 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 84.90 | 86.30 | 1.40 | 4140 | 12 | 212 | 10 | 287 | 0.7 | 100 | 851 | 6.92 | 17 |
| 86.30 | 327.00 | 240.70 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |

# CHAMPION BEAR RESOURCES LTD.

## DIAMOND DRILL LOG

PROPERTY: BearTrack Lake
HOLE No.: BT06
Collar Eastings: -475.00
Collar Northings: 135.00
Collar Elevation: 0.00
Grid: BearTrack

Collar Inclination: -45.00
Grid Bearing: 231.00
Final Depth: 355.00 feet

Logged by: H. Petak
Date:
Down-hole Survey:

| FROM | TO | LITHOLOGICAL DESCRIPTION | ASSAYS FROM | TO | WIDTH | Sample | Au(ppb) | Cu(ppm) | Pb(ppm) | In(ppm) | Ag(ppm) | Ni(ppm) | Mn(ppm) | Fe(%) | As(ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 8 | (CASING) | | | | | | | | | | | | | |
| 8 | 196 | (DIORITE) | 0.00 | 23.00 | 23.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| | | Dark grey, med to coarse-grained, hbl, fldsp, some chl | 23.00 | 24.30 | 0.50 | 4141 | 23 | 336 | 13 | 172 | 1.0 | 149 | 820 | 5.06 | 25 |
| | | (after hbl ?), little or no qtz, massive to mod foliated | 24.30 | 48.30 | 24.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| | | (avg 45 deg to ca); | 48.30 | 52.00 | 3.70 | 4142 | 16 | 134 | 55 | 103 | 0.6 | 95 | 612 | 5.73 | 10 |
| | | | 52.00 | 96.90 | 44.90 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| | | 8 - 15.7 blocky; | 96.90 | 98.20 | 1.30 | 4143 | 265 | 883 | 16 | 287 | 1.9 | 90 | 596 | 6.31 | 187 |
| | | 24.5 - 25 mafic dyke with 5% py at upper contact; | 98.20 | 142.00 | 43.80 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| | | 48.3 - 52.2 3 - 5% disseo py; | 142.00 | 147.20 | 5.20 | 4144 | 374 | 330 | 32 | 1200 | 1.3 | 170 | 772 | 9.86 | 345 |
| | | 68.5 - 7.5 mafic dyke with trc of disseo py (< 1%); | | | | | | | | | | | | | |
| | | 97.4 - 98 qtz with semi-massive py; | | | | | | | | | | | | | |
| | | 107 - 110.5 mafic dyke; | | | | | | | | | | | | | |
| | | 114.3 3° qtz vein; | | | | | | | | | | | | | |
| | | 120 2° qtz vein; | | | | | | | | | | | | | |
| | | 141 - 147 fine-grained mafic rock (mafic dyke ?) with disseo py incl 2 massive bands about 1° wide at 143 (assoc with qtz) and at 145.6 resp. | | | | | | | | | | | | | |
| 196 | 211 | (ANDESITE) | | | | | | | | | | | | | |
| | | Dark greenish grey, fine-grained, massive to poorly fol; | | | | | | | | | | | | | |
| 211 | 238.5 | (DIORITE) | | | | | | | | | | | | | |
| | | Same as higher up in the section except mostly medium grained; | | | | | | | | | | | | | |
| 238.5 | 268 | (DACITE) | | | | | | | | | | | | | |
| | | Light greenish-grey, fine-grained, massive; evidence of strong fracturing, fracturesd healed; | | | | | | | | | | | | | |
| 268 | 355 | (ANDESITE) with tuffaceous portions | 147.20 | 295.10 | 147.90 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| | | Dark greenish grey, fine-grained, massive to mod foliated | 295.10 | 295.30 | 0.20 | 4145 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| | | (15 - 20 deg to ca); hbl, fldsp, some chl (after hbl ?), | 295.30 | 355.00 | 59.70 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| | | little or no qtz; occas trc of py; some carb and qtz | | | | | | | | | | | | | |
| | | veining (fracture fillings); | | | | | | | | | | | | | |
| | | 295.3 0.5° carb vein with 50% sphal (?); | | | | | | | | | | | | | |
| | | 301.6 - 304.3 qtz vein, fract and sheared, no min; | | | | | | | | | | | | | |
| | | 306.6 - 307.3 qtz vein, same as above; | | | | | | | | | | | | | |
| | | 321 5° qtz vein; | | | | | | | | | | | | | |

# CHAMPION BEAR RESOURCES LTD.

## DIAMOND DRILL LOG

PROPERTY: BearTrack Lake
HOLE No.: BT06



| FROM | TO | LITHOLOGICAL DESCRIPTION | FROM | TO | WIDTH | Sample | ASSAYS Au(ppb) | Cu(ppm) | Pb(ppm) | Zn(ppm) | Ag(ppm) | Ni(ppm) | Mn(ppm) | Fe(%) | As(ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 350 | 355 fragmental (flow brecc ?), trc of fine py; | | | | | | | | | | | | | |
| | 355. | (END OF HOLE) | | | | | | | | | | | | | |

# CHAMPION BEAR RESOURCES LTD.

## DIAMOND DRILL LOG

PROPERTY: BearTrack Lake
HOLE No.: BT06
Collar Eastings: -475.00
Collar Northings: 135.00
Collar Elevation: 0.00
Grid: BearTrack

Collar Inclination: -45.00
Grid Bearing: 231.00
Final Depth: 355.00 feet

Logged by: H. Petak
Date:
Down-hole Survey:

| FROM | TO | LITHOLOGICAL DESCRIPTION |
|---|---|---|
| 0 | 8 | (CASING) |
| 8 | 196 | (DIORITE)<br>Dark grey, med to coarse-grained, hbl, fldsp, some chl (after hbl ?), little or no qtz, massive to mod foliated (avg 45 deg to ca);<br>8 - 15.7 blocky;<br>24.5 - 25 mafic dyke with 5% py at upper contact;<br>48.3 - 52.2 3 - 5% disseo py;<br>68.5 - 7.5 mafic dyke with trc of disseo py (< 1%);<br>97.4 - 98 qtz with semi-massive py;<br>107 - 110.5 mafic dyke;<br>114.3 3° qtz vein;<br>120 2° qtz vein;<br>141 - 147 fine-grained mafic rock (mafic dyke ?) with disseo py incl 2 massive bands about 1" wide at 143 (assoc with qtz) and at 145.6 resp. |
| 196 | 211 | (ANDESITE)<br>Dark greenish grey, fine-grained, massive to poorly fol; |
| 211 | 238.5 | (DIORITE)<br>Same as higher up in the section except mostly medium grained; |
| 238.5 | 268 | (DACITE)<br>Light greenish-grey, fine-grained, massive; evidence of strong fracturing, fracturesd healed; |
| 268 | 355 | (ANDESITE) with tuffaceous portions<br>Dark greenish grey, fine-grained, massive to mod foliated (15 - 20 deg to ca); hbl, fldsp, some chl (after hbl ?), little or no qtz; occas trc of py; some carb and qtz veining (fracture fillings);<br>295.3 0.5° carb vein with 50% sphal (?);<br>301.6 - 304.3 qtz vein, fract and sheared, no min;<br>306.6 - 307.3 qtz vein, same as above;<br>321 5° qtz vein; |

| FROM | TO | WIDTH | Sample | ASSAYS Au(ppb) | Cu(ppm) | Pb(ppm) | Zn(ppm) | Ag(ppm) | Ni(ppm) | Mn(ppm) | Fe(%) | As(ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 23.00 | 23.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 23.00 | 24.30 | 0.50 | 4141 | 23 | 336 | 13 | 172 | 1.0 | 149 | 828 | 5.86 | 25 |
| 24.30 | 48.30 | 24.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 48.30 | 52.00 | 3.70 | 4142 | 16 | 134 | 55 | 103 | 0.6 | 95 | 612 | 5.73 | 10 |
| 52.00 | 96.90 | 44.90 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 96.90 | 98.20 | 1.30 | 4143 | 265 | 883 | 16 | 287 | 1.9 | 90 | 596 | 6.31 | 187 |
| 98.20 | 142.00 | 43.80 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 142.00 | 147.20 | 5.20 | 4144 | 374 | 330 | 32 | 1208 | 1.3 | 170 | 772 | 9.86 | 345 |
| 147.20 | 295.10 | 147.90 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 295.10 | 295.30 | 0.20 | 4145 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 295.30 | 355.00 | 59.70 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |

# CHAMPION BEAR RESOURCES LTD.

## DIAMOND DRILL LOG

PROPERTY: BearTrack Lake
HOLE No.: BT06



| FROM | TO | LITHOLOGICAL DESCRIPTION | FROM | TO | WIDTH | Sample | ASSAYS Au(ppb) | Cu(ppm) | Pb(ppm) | Zn(ppm) | Ag(ppm) | Ni(ppm) | Mn(ppm) | Fe(%) | As(ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 350 | 355 fragmental (flow brecc ?), trc of fine py; | | | | | | | | | | | | | |
| | 355. | (END OF HOLE) | | | | | | | | | | | | | |

# CHAMPION BEAR RESOURCES LTD.

## DIAMOND DRILL LOG

PROPERTY: BearTrack Lake
HOLE No.: BT07
Collar Eastings: -200.00
Collar Northings: 125.00
Collar Elevation: 0.00
Grid: BearTrack

Collar Inclination: -45.00
Grid Bearing: 231.00
Final Depth: 396.00 feet

Logged by: H. Petak
Date:
Down-hole Survey:

| FROM | TO | LITHOLOGICAL DESCRIPTION |
|---|---|---|
| 0 | 12 | (CASING) |
| 12 | 82 | (DIORITE)<br>Dark greenish-grey, fine- to medium-grained, well foliated at 40 - 45 deg to ca; fldsp, hbl, some chl (after hbl ?); some aplitic and carbonate veining partic towrds the lower part of the section;<br>12 - 15 very blocky;<br>17 strongly weathered fracture;<br>31 - 32 fracturing, very blocky; |
| 82 | 108 | (BRECCIA) Flow Breccia ?<br>Fine-grained andesitic matrix with felsic (feldsp) fragmts up to several cm long, stretched with long axis parall to plane of foliation; fragmts subangular; top and bottom contact of section gradational; |
| 108 | 396 | (ANDESITE)<br>Greenish-grey, fine-grained, massive to weakly foliated at 45 deg to ca; sporadic trc of py;<br>110 - 112 fine dissem py, < 1%;<br>115.5 1° qtz vein, no min;<br>136 - 138 fine dissem py, < 1%;<br>158 3° qtz vein, no min, some turm at lower contact;<br>168 - 169 qtz filled shear with some py (up to 5%, avg 3%), py partially in fract, also chl and turm;<br>178.8 3° qtz vein, dissem py on both sides, up to 10% py at 180;<br>187.6 - 188.5 5 - 10% fine dissem py;<br>196 - 197.4 1% fine dissem py;<br>200 1° qtz vein;<br>235 - 235.5 qtz vein, trc op py;<br>241 1° py up to 5%;<br>280 - 286.6 qtz vein; |
| 396. | | (END OF HOLE) |

ASSAYS

| FROM | TO | WIDTH | Sample | Au(ppb) | Cu(ppm) | Pb(ppm) | Zn(ppm) | Ag(ppm) | Ni(ppm) | Mn(ppm) | Fe(%) | As(ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 168.00 | 168.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 168.00 | 170.50 | 2.50 | 4146 | 16 | 129 | 4 | 110 | TRACE | 52 | 746 | 4.41 | 30 |
| 170.50 | 178.30 | 7.80 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 178.30 | 180.20 | 1.90 | 4147 | 25 | 60 | TRACE | 94 | TRACE | 43 | 1050 | 3.63 | TRACE |
| 180.20 | 187.60 | 7.40 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 187.60 | 188.50 | 0.90 | 4148 | 14 | 80 | 3 | 106 | 0.3 | 100 | 860 | 5.21 | 10 |
| 188.50 | 210.50 | 22.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 210.50 | 211.50 | 1.00 | 4149 | 9 | 99 | TRACE | 51 | 0.2 | 36 | 694 | 2.94 | 4 |
| 211.50 | 396.00 | 184.50 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |

# CHAMPION BEAR RESOURCES LTD.

## DIAMOND DRILL LOG

PROPERTY: BearTrack Lake
HOLE No.: BT08
Collar Eastings: -839.00
Collar Northings: 58.00
Collar Elevation: 0.00
Grid: BearTrack

Collar Inclination: -45.00
Grid Bearing: 150.00
Final Depth: 166.00 feet

Logged by: H. Petak
Date:
Down-hole Surveys:

| FROM | TO | LITHOLOGICAL DESCRIPTION | ASSAYS FROM | TO | WIDTH | Sample | Au(ppb) | Cu(ppm) | Pb(ppm) | Zn(ppm) | Ag(ppm) | Ni(ppm) | Mn(ppm) | Fe(%) | As(ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 34 | (CASING) | | | | | | | | | | | | | |
| 34 | 145.6 | (DIORITE) | 0.00 | 46.00 | 46.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| | | Dark grey to dark greenish-grey, mostly coarse-grained with occas fine-grained portions, mostly massive to poorly foliated (generally the coarse-gr port) with some short and foliated (usually fine-gr) sections; fol avg at 45 deg to ca; hbl, fldsp, occas chl (after hbl ?), little to no qtz; occas trc of py; some minor qtz and carb veining; | 46.00 | 53.60 | 7.60 | 4150 | 733 | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL |
| | | 46 - 53.6 SULFIDE ZONE: heavy disseo to massive py; apart from a 3" qtz vein (with tura) at 46.7, the entire section shows some silicification. | | | | | | | | | | | | | |
| | | 55.4 - 55.8 qtz vein with chl and little tura; | | | | | | | | | | | | | |
| | | 76.3 - 77.9 mafic dyke; | | | | | | | | | | | | | |
| | | 112.3 - 114 mafic dyke; | | | | | | | | | | | | | |
| | | 116.3 - 117.4 mafic dyke with 2" qtz vein in center; | | | | | | | | | | | | | |
| | | 122.4 - 127.6 mafic dyke; | | | | | | | | | | | | | |
| 145.6 | 166 | (ANDESITE) | 53.60 | 166.00 | 112.40 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| | | Dark greenish-grey, fine-grained, massive to poorly fol, hbl, chl, little fldsp and qtz, local trc of py; | | | | | | | | | | | | | |
| | 166. | (END OF HOLE) | | | | | | | | | | | | | |

# CHAMPION BEAR RESOURCES LTD.

## DIAMOND DRILL LOG

PROPERTY: BearTrack Lake
HOLE No.: BT09
Collar Eastings: -739.00
Collar Northings: 60.00
Collar Elevation: 0.00
Grid: BearTrack

Collar Inclination: -55.00
Grid Bearing: 231.00
Final Depth: 126.00 feet

Logged by: H. Petak
Date:
Down-hole Surveys:

| FROM | TO | LITHOLOGICAL DESCRIPTION |
|---|---|---|
| 0 | 4 | (CASING) |
| 4 | 126 | (DIORITE)<br>Dark greenish-grey to grey, mostly coarse-gr, occas fine- to medium-grained, generally massive to poorly foliated, rarely mod foliated at 35 - 45 deg to ca; hbl,fldsp, occas chl (after hbl ?), very little or no qtz; occas trc of py;<br>5 - 6.5 < 3% disseo py;<br>8 - 9 qtz vein;<br>12 3° disseo py, 1%;<br>23 - 23.5 3% disseo py along fol;<br>26 - 27 heavy disseo to semi-massive py in siliceous, well foliated rock; possible shear zone;<br>31 - 32 shear zone, chl, no min;<br>48 - 53 silicification; shear at 51.5;<br>78 - 85 chloritization with pegmat veining;<br>99 1° pegm with tura; |
| | 126 | (END OF HOLE) |

ASSAYS

| FROM | TO | WIDTH | Sample | Au(ppb) | Cu(ppm) | Pb(ppm) | Zn(ppm) | Ag(ppm) | Ni(ppm) | Mn(ppm) | Fe(%) | As(ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 5.00 | 5.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 5.00 | 6.50 | 1.50 | 4151 | 25 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 6.50 | 23.00 | 16.50 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 23.00 | 23.50 | 0.50 | 4152 | 27 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 23.50 | 26.00 | 2.50 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 26.00 | 27.00 | 1.00 | 4153 | 8515 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 27.00 | 126.00 | 99.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |

# CHAMPION BEAR RESOURCES LTD.

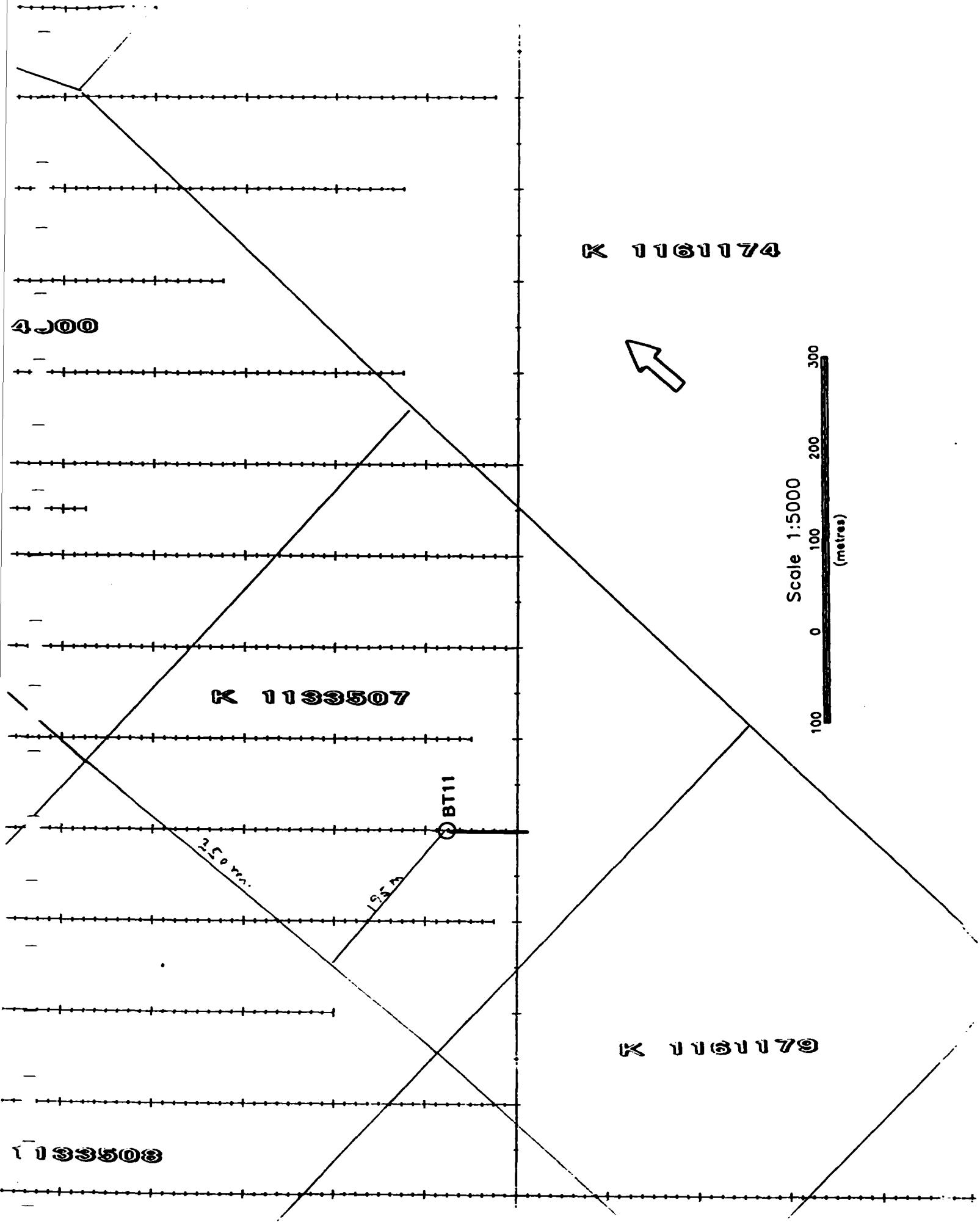
## DIAMOND DRILL LOG

PROPERTY: BearTrack Lake
HOLE No.: BT10
Collar Eastings: -850.00
Collar Northings: 55.00
Collar Elevation: 0.00
Grid: Beartrack

Collar Inclination: -45.00
Grid Bearing: 231.00
Final Depth: 125.00 feet

Logged by: H. Petak
Date:
Down-hole Survey:

| FROM | TO | LITHOLOGICAL DESCRIPTION | FROM | TO | WIDTH | Sample | ASSAYS Au(ppb) | Cu(ppm) | Pb(ppm) | Zn(ppm) | Ag(ppm) | Ni(ppm) | Mn(ppm) | Fe(%) | As(ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 25 | (CASING) | | | | | | | | | | | | | |
| 25 | 104 | (DIORITE)<br>Dark greenish-grey, medium- to coarse-grained, massive to poorly foliated (at 45 to 50 deg to ca); hbl, fldsp, chl (after hbl ?), little or no qtz, occas fine disseminated; some occas thin qtz and carb veining;<br><br>35 - 37 mafic dyke;<br>85 - 86.5 mafic dyke;<br>102 shear, no min; | | | | | | | | | | | | | |
| 104 | 125 | (ANDESITE)<br>Dark green to greyish green, usually fine-grained, poorly to mod foliated; chl, hbl, minor fldsp; some very fine qtz and carb veining; | 0.00 | 125.00 | 125.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| | # 25 | (END OF HOLE) | | | | | | | | | | | | | |


K 1161174
4300
K 1133507
BT11
350 mm.
195 m
K 1161179
1133503
Scale 1:5000
300
200
100
0
100
(metres)

# CHAMPION BEAR RESOURCES LTD.

## DIAMOND DRILL LOG

PROPERTY: BearTrack Lake
HOLE No.: BT11
Collar Eastings: -1200.00
Collar Northings: -625.00
Collar Elevation: 0.00
Grid: BearTrack

Collar Inclination: -45.00
Grid Bearing: 180.00
Final Depth: 406.00 feet

Logged by: H. Petal
Date:
Down-hole Survey:

---

| FROM | TO | LITHOLOGICAL DESCRIPTION |
|---|---|---|
| 0 | 46 | (CASING) |
| 28 | 46 | 5 ft of very blocky core recovered; DIORITE ? |
| 46 | 174 | (DIORITE)<br>Greenish grey to dark grey, mostly fine- to medium-grained, locally coarse-grained, generally well foliated to thinly laminated at 30 to 45 deg to ca; hbl, fldsp, chl (after hbl ?), little or no qtz; long parts of the section carry up to 5% and occas more extremly fine dissem py and sgt; qtz and carb veining is fairly common and occas associated with an increase in the amt of sulfides.<br>130 - narrow shear and fracture zone sub-parall to ca;<br>142 148 mafic and mostly elongated fragments in a very fine-grained mafic matrix; fragment size averg few mm and ranges up to 1 cm in length; (flow top brecc ?);<br>161 fragmentation; |
| 174 | 233 | (ANDESITE) tuffaceous<br>Dark greenish-grey, very fine-grained, mostly massive, in places vaguelly banded (at 45 deg to ca); varying amts of dissem py occur through most of the section; locally accomp by very fine dissem sgt;<br>189.5 - 188.5 heavy dissem and thin laminae of py (10 - 20% of py);<br>199 - 199.5 thin bands of semi-massive py (40% py);<br>216 - 233 SULFIDE ZONE (30 - 40% py) assoc with strong qtz and carb veining; also some sgt; |
| 233 | 406 | (ANDESITIC TUFF), locally dacitic ?<br>Dark grey, fine-grained, well foliated to thinly laminated; hbl, fldsp, chl, locally some qtz; most of the section contains very fine dissem py (avg 1% loc up to 3% py) and locally some sgt; thin qtz and carb veinlets are common throughout most of the section. |

ASSAYS

| FROM | TO | WIDTH | Sample | Au(ppb) | Cu(ppm) | Pb(ppm) | In(ppm) | Ag(ppm) | Ni(ppm) | Mn(ppm) | Fe(%) | As(ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 61.50 | 61.50 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 61.50 | 65.50 | 4.00 | 4154 | TRACE | 73 | 4 | 39 | TRACE | 130 | 742 | 4.43 | 7 |
| 65.50 | 96.80 | 31.30 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 96.80 | 100.40 | 3.60 | 4155 | TRACE | 70 | 3 | 127 | 0.4 | 163 | 743 | 4.93 | 34 |
| 100.40 | 112.50 | 12.10 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 112.50 | 115.00 | 2.50 | 4156 | TRACE | 80 | 4 | 73 | 0.5 | 115 | 724 | 4.45 | 34 |
| 115.00 | 152.00 | 37.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 152.00 | 156.70 | 4.70 | 4157 | TRACE | 76 | 2 | 37 | 0.5 | 91 | 310 | 3.44 | 26 |
| 156.70 | 166.70 | 10.00 | 4158 | TRACE | 85 | 3 | 112 | 0.4 | 153 | 969 | 4.82 | 35 |
| 166.70 | 174.00 | 7.30 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 174.00 | 189.00 | 15.00 | 4159 | TRACE | 81 | 5 | 105 | 0.5 | 143 | 910 | 4.59 | 34 |
| 189.00 | 194.00 | 5.00 | 4160 | 6 | 64 | 2 | 56 | 0.6 | 94 | 1000 | 4.21 | 39 |
| 194.00 | 199.00 | 5.00 | 4161 | TRACE | 58 | 5 | 71 | 0.4 | 112 | 1030 | 4.00 | 25 |
| 199.00 | 206.00 | 7.00 | 4162 | TRACE | 79 | 4 | 75 | 0.3 | 185 | 758 | 5.74 | 28 |
| 206.00 | 216.00 | 10.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 216.00 | 226.00 | 10.00 | 4163 | TRACE | 76 | 2 | 85 | 0.4 | 152 | 753 | 4.54 | 23 |
| 226.00 | 233.30 | 7.30 | 4164 | TRACE | 96 | 3 | 171 | 0.3 | 113 | 940 | 4.63 | 23 |
| 233.30 | 304.60 | 71.30 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 304.60 | 307.10 | 2.50 | 4165 | TRACE | 83 | 7 | 87 | 0.2 | 164 | 688 | 5.08 | 31 |
| 307.10 | 395.30 | 88.20 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| 395.30 | 396.00 | 0.70 | 4166 | 6 | 75 | 10 | 76 | 0.3 | 170 | 825 | 6.17 | 36 |
| 396.00 | 406.00 | 10.00 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |

# CHAMPION BEAR RESOURCES LTD.

## DIAMOND DRILL LOG

PROPERTY: BearTrack Lake
HOLE No.: BT11



| FROM | TO | LITHOLOGICAL DESCRIPTION | FROM | TO | WIDTH | Sample | ASSAYS Au(ppb) | Cu(ppm) | Pb(ppm) | Zn(ppm) | Ag(ppm) | Ni(ppm) | Mn(ppm) | Fe(%) | As(ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 306 | 2° qtz vein in shear zone with assoc py (5% py); | | | | | | | | | | | | | |
| | 316.5 - 324 | STRONG FRACTURE ZONE, mostly sub-parall to ca; fract are often carbonate filled and py coated; also some act on fract planes; | | | | | | | | | | | | | |
| | 324 - 327.7 | porphyritic dyke pinkish, med- to coarse-grained with 2 - 4 mm fldsp porphyroclasts; both contacts are very sharp. | | | | | | | | | | | | | |
| | 331.8 - 333.6 | porphyritic dyke, same as above except finer grained; | | | | | | | | | | | | | |
| | 343 | 0.5 ft fracture zone, no min; | | | | | | | | | | | | | |
| | 365 | fracture plane with heavy py coating; | | | | | | | | | | | | | |
| | 372 - 386 | prophyritic dyke, same as above | | | | | | | | | | | | | |
| | 406 | (END OF HOLE) | | | | | | | | | | | | | |

BARRINGER LABORATORIES

BARRINGER / ACCURASSAY LABORATORIES
THUNDER BAY DIVISION

6795 McADAM ROAD
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4-Mar-92

INDEPENDENT EXPLORATION SERVICES LTD.
P.O. Box 7, Station A
Winnipeg, MB
R3K 1Z9

Page: 1
Copy: 1 of 1
Set : 1

Attn: Mr. Lou Chastko
Project: Beartrack

Received: 3-Mar-92 07:45
PO #:

Job: 921019R

Status: Preliminary

## Core Samples

| Sample | Au FA/AA3 ppb | Au FA/AA3 oz/T |
|---|---|---|
| 4101 | 15 | <0.001 |
| 4102 | 29 | <0.001 |
| 4103 | 11 | <0.001 |
| 4104 | 41 | 0.001 |
| 4105 | 177 | 0.005 |
| 4106 | 7 | <0.001 |
| 4107 | 21 | <0.001 |
| 4108 | 11 | <0.001 |
| 4109 | 13 | <0.001 |
| 4110 | <5 | <0.001 |
| 4111 | 69 | 0.002 |
| 4112 | <5 | <0.001 |
| 4113 | <5 | <0.001 |
| 4114 | <5 | <0.001 |
| 4115 | 213 | 0.006 |
| 4116 | 203 | 0.006 |
| 4117 | 46 | 0.001 |
| 4118 | 29 | <0.001 |
| 4119 | <5 | <0.001 |
| 4120 | 124 | 0.004 |

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12-Mar-92

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Page: 2
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Set : 2

Attn: Mr. Lou Chastko
Project: Beartrack

Received: 3-Mar-92 07:45
PO #:

Job: 921019R

Status: Final

## Core Samples

| Sample | Mo ICAP ppm | Cu ICAP ppm | Pb ICAP ppm | Zn ICAP ppm | Ag ICAP ppm | Ni ICAP ppm | Co ICAP ppm |
|---|---|---|---|---|---|---|---|
| 4101 | 3 | 24 | 17 | 58 | 0.1 | 71 | 56 |
| 4102 | 1 | 86 | 9 | 46 | <0.1 | 108 | 34 |
| 4103 | 1 | 9 | 14 | 63 | <0.1 | 74 | 29 |
| 4104 | 2 | 19 | 14 | 152 | 0.6 | 78 | 31 |
| 4105 | 2 | 75 | 14 | 62 | 2.1 | 153 | 67 |
| 4106 | 2 | 19 | 8 | 69 | <0.1 | 65 | 30 |
| 4107 | 2 | 117 | 21 | 137 | 0.5 | 76 | 50 |
| 4108 | 2 | 43 | 7 | 88 | 0.3 | 106 | 60 |
| 4109 | 2 | 38 | 8 | 249 | 0.1 | 76 | 42 |
| 4110 | 3 | 49 | 12 | 170 | 0.7 | 57 | 41 |
| 4111 | 3 | 57 | 10 | 216 | <0.1 | 73 | 135 |
| 4112 | 3 | 37 | 11 | 23 | <0.1 | 50 | 36 |
| 4113 | 3 | 30 | 14 | 37 | <0.1 | 63 | 42 |
| 4114 | 2 | 17 | 16 | 91 | <0.1 | 85 | 29 |
| 4115 | 2 | 111 | 34 | 193 | <0.1 | 83 | 44 |
| 4116 | 3 | 95 | 11 | 188 | 0.1 | 33 | 42 |
| 4117 | 2 | 314 | 10 | 405 | 0.3 | 112 | 42 |
| 4118 | 3 | 63 | 11 | 165 | 0.1 | 80 | 38 |
| 4119 | 3 | 21 | 16 | 128 | <0.1 | 33 | 40 |
| 4120 | 3 | 347 | 18 | 122 | 0.4 | 85 | 122 |

| Sample | Mn ICAP ppm | Fe ICAP % | As ICAP ppm | Sb ICAP ppm | Bi ICAP ppm |
|---|---|---|---|---|---|
| 4101 | 776 | 5.00 | 37 | <2 | 4 |
| 4102 | 411 | 4.32 | 19 | <2 | <3 |
| 4103 | 512 | 3.23 | 13 | <2 | 5 |
| 4104 | 867 | 3.16 | 20 | <2 | 3 |

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12-Mar-92

Page: 3
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Set : 2

Attn: Mr. Lou Chastko
Project: Beartrack

PO #:

Received: 3-Mar-92 07:45

Job: 921019R

Status: Final

**Core Samples**

| Sample | Mn ICAP ppm | Fe ICAP % | As ICAP ppm | Sb ICAP ppm | Bi ICAP ppm |
|---|---|---|---|---|---|
| 4105 | 759 | 5.86 | 125 | <2 | <3 |
| 4106 | 708 | 3.50 | 20 | 5 | <3 |
| 4107 | 620 | 7.41 | 32 | 4 | <3 |
| 4108 | 625 | 5.12 | 39 | <2 | <3 |
| 4109 | 729 | 2.94 | 21 | <2 | <3 |
| 4110 | 753 | 6.98 | 18 | 4 | <3 |
| 4111 | 805 | 6.17 | 114 | 6 | <3 |
| 4112 | 573 | 1.68 | 8 | <2 | 7 |
| 4113 | 321 | 2.29 | 16 | 3 | <3 |
| 4114 | 936 | 3.51 | 3 | <2 | <3 |
| 4115 | 1260 | 6.52 | 166 | <2 | <3 |
| 4116 | 461 | 5.09 | 64 | <2 | <3 |
| 4117 | 633 | 6.13 | 75 | 2 | <3 |
| 4118 | 795 | 5.44 | 28 | <2 | <3 |
| 4119 | 641 | 4.83 | 18 | <2 | <3 |
| 4120 | 1520 | 8.86 | 160 | <2 | <3 |

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12-Mar-92

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Page: 4
Copy: 1 of 1
Set : 2

Attn: Mr. Lou Chastko
Project: Beartrack

Received: 3-Mar-92 07:45
PO #:

Job: 921Q19R

Status: Final

Signed: Howard Lahti

Howard Lahti, Ph.D.
Laboratory Manager

BARRINGER LABORATORIES

BARRINGER / ACCURASSAY LABORATORIES
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25-Mar-92

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P.O. Box 7, Station A
Winnipeg, MB
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Page: 1
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Set : 1

Attn: Mr. Lou Chastko
Project: Bear Track

Received: 5-Mar-92 09:27
PO #:

Job: 921021R

Status: Final

## Core Samples

| Sample | Au FA/AA3 ppb | Au FA/AA3 oz/T |
|---|---|---|
| 4121 | 18 | <0.001 |
| 4122 | 391 | 0.011 |
| 4123 | 7 | <0.001 |
| 4124 | 7 | <0.001 |
| 4125 | 5 | <0.001 |
| 4126 | 5 | <0.001 |
| 4127 | 14 | <0.001 |
| 4128 | <5 | <0.001 |
| 4129 | <5 | <0.001 |
| 4130 | <5 | <0.001 |
| 4131 | 23 | <0.001 |
| 4132 | 144 | 0.004 |
| 4133 | 287 | 0.008 |
| 4134 | 12 | <0.001 |
| 4135 | 5 | <0.001 |
| 4136 | 7 | <0.001 |
| 4137 | <5 | <0.001 |
| 4138 | 5 | <0.001 |

BARRINGER LABORATORIES

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FAX: (416) 890-8575

25-Mar-92

INDEPENDENT EXPLORATION SERVICES LTD.
P.O. Box 7, Station A
Winnipeg, MB
R3K 1Z9



Attn: Mr. Lou Chastko
Project: Bear Track
PO #:

Received: 5-Mar-92 09:27

Job: 921021R
Status: Final

## Core Samples

| Sample | Mo ICAP ppm | Cu ICAP ppm | Pb ICAP ppm | Zn ICAP ppm | Ag ICAP ppm | Ni ICAP ppm | Co ICAP ppm |
|---|---|---|---|---|---|---|---|
| 4121 | 2 | 280 | 6 | 312 | 0.1 | 101 | 40 |
| 4122 | 1 | 198 | 17 | 662 | 0.4 | 127 | 59 |
| 4123 | 1 | 104 | 8 | 134 | <0.1 | 88 | 40 |
| 4124 | 1 | 128 | 9 | 109 | 0.4 | 95 | 48 |
| 4125 | 1 | 111 | 8 | 109 | 0.5 | 99 | 48 |
| 4126 | 1 | 67 | 10 | 121 | 0.2 | 86 | 49 |
| 4127 | 1 | 74 | 8 | 166 | 0.4 | 94 | 52 |
| 4128 | 2 | 68 | 15 | 95 | <0.1 | 68 | 41 |
| 4129 | 1 | 54 | 7 | 110 | <0.1 | 74 | 31 |
| 4130 | <1 | 43 | <2 | 99 | <0.1 | 111 | 30 |
| 4131 | 1 | 108 | 4 | 245 | 0.2 | 95 | 39 |
| 4132 | 2 | 1116 | 4 | 813 | 0.7 | 136 | 32 |
| 4133 | 3 | 177 | 476 | 1688 | 3.3 | 168 | 57 |
| 4134 | <1 | 77 | 9 | 135 | 0.2 | 137 | 40 |
| 4135 | 1 | 38 | <2 | 76 | <0.1 | 106 | 31 |
| 4136 | 2 | 178 | 8 | 80 | 0.6 | 96 | 45 |
| 4137 | 1 | 81 | 6 | 88 | 0.4 | 101 | 44 |
| 4138 | 2 | 135 | 2 | 128 | 0.3 | 107 | 46 |

| Sample | Mn ICAP ppm | Fe ICAP % | As ICAP ppm | Sb ICAP ppm | Bi ICAP ppm |
|---|---|---|---|---|---|
| 4121 | 789 | 7.16 | 15 | 5 | <3 |
| 4122 | 830 | 6.77 | 84 | 7 | 6 |
| 4123 | 811 | 4.38 | 17 | 7 | <3 |
| 4124 | 800 | 5.02 | 22 | 4 | <3 |
| 4125 | 811 | 5.21 | 14 | 8 | <3 |
| 4126 | 831 | 4.49 | 15 | 7 | 3 |

BARRINGER LABORATORIES

BARRINGER / ACCURASSAY LABORATORIES
THUNDER BAY DIVISION

5735 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
PHONE: (416) 890-8566
FAX: (416) 890-8575

25-Mar-92

INDEPENDENT EXPLORATION SERVICES LTD.
P.O. Box 7, Station A
Winnipeg, MB
R3K 1Z9



Attn: Mr. Lou Chastko
Project: Bear Track

Received: 5-Mar-92 09:27
PO #:

Job: 921021R

Status: Final

## Core Samples

| Sample | Mn ICAP ppm | Fe ICAP % | As ICAP ppm | Sb ICAP ppm | Bi ICAP ppm |
|---|---|---|---|---|---|
| 4127 | 882 | 5.00 | 23 | 2 | <3 |
| 4128 | 625 | 5.09 | 13 | 5 | <3 |
| 4129 | 585 | 3.00 | 3 | 7 | <3 |
| 4130 | 746 | 3.75 | <2 | 3 | <3 |
| 4131 | 647 | 4.52 | 26 | 10 | 3 |
| 4132 | 970 | 7.97 | 20 | 11 | <3 |
| 4133 | 623 | 7.74 | 170 | 18 | 11 |
| 4134 | 798 | 4.73 | 10 | 4 | <3 |
| 4135 | 840 | 3.72 | <2 | 3 | <3 |
| 4136 | 707 | 5.08 | 13 | 12 | <3 |
| 4137 | 793 | 4.77 | 9 | 9 | <3 |
| 4138 | 762 | 5.34 | 13 | 7 | <3 |

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25-Mar-92

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R3K 1Z9

Page: 4
Copy: 1 of 1
Set : 2

Attn: Mr. Lou Chastko
Project: Bear Track

Received: 5-Mar-92 09:27
PO #:

Job: 921021R

Status: Final

Signed:

.....

Jeffrey Davis B.Sc.
Supervisor Environmental Services

BARRINGER LABORATORIES

BARRINGER / ACCURASSAY LABORATORIES
THUNDER BAY DIVISION

5735 McADAM ROAD
MISSISSAUGA, ONTARIO
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25-Mar-92

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R3K 1Z9



Attn: Mr. Lou Chastko
Project: Bear Track

Received: 10-Mar-92 08:01
PO #:

Job: 921023R

Status: Final

## Core Samples

| Sample | Au FA/AA3 ppb | Au FA/AA3 oz/T |
|---|---|---|
| 4139 | 12 | <0.001 |
| 4140 | 12 | <0.001 |
| 4141 | 23 | <0.001 |
| 4142 | 16 | <0.001 |
| 4143 | 265 | 0.008 |
| 4144 | 374 | 0.011 |
| 4146 | 16 | <0.001 |
| 4147 | 25 | <0.001 |
| 4148 | 14 | <0.001 |
| 4149 | 9 | <0.001 |

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PHONE: (416) 890-8566
FAX: (416) 890-8575

25-Mar-92

INDEPENDENT EXPLORATION SERVICES LTD.
P.O. Box 7, Station A
Winnipeg, MB
R3K 1Z9

Page: 2
Copy: 1 of 1
Set : 2

Attn: Mr. Lou Chastko
Project: Bear Track

Received: 10-Mar-92 08:01
PO #:

Job: 921023R

Status: Final

## Core Samples

| Sample | Mo ICAP ppm | Cu ICAP ppm | Pb ICAP ppm | Zn ICAP ppm | Ag ICAP ppm | Ni ICAP ppm | Co ICAP ppm |
|---|---|---|---|---|---|---|---|
| 4139 | 3 | 250 | 15 | 157 | 0.5 | 88 | 92 |
| 4140 | 2 | 212 | 10 | 287 | 0.7 | 100 | 47 |
| 4141 | 3 | 336 | 13 | 172 | 1.0 | 149 | 121 |
| 4142 | 2 | 134 | 55 | 103 | 0.6 | 95 | 49 |
| 4143 | 3 | 883 | 16 | 287 | 1.9 | 90 | 129 |
| 4144 | 2 | 330 | 32 | 1208 | 1.3 | 170 | 193 |
| 4146 | 3 | 129 | 4 | 110 | <0.1 | 52 | 59 |
| 4147 | 5 | 60 | <2 | 94 | <0.1 | 43 | 39 |
| 4148 | 1 | 80 | 3 | 106 | 0.3 | 100 | 35 |
| 4149 | 5 | 99 | <2 | 51 | 0.2 | 36 | 34 |

| Sample | Mn ICAP ppm | Fe ICAP % | As ICAP ppm | Sb ICAP ppm | Bi ICAP ppm |
|---|---|---|---|---|---|
| 4139 | 583 | 7.14 | 29 | 8 | <3 |
| 4140 | 851 | 6.92 | 17 | 6 | <3 |
| 4141 | 828 | 5.86 | 25 | 8 | <3 |
| 4142 | 612 | 5.73 | 10 | 8 | <3 |
| 4143 | 596 | 6.31 | 187 | <2 | 9 |
| 4144 | 772 | 9.86 | 345 | 8 | <3 |
| 4146 | 746 | 4.41 | 30 | <2 | <3 |
| 4147 | 1050 | 3.63 | <2 | <2 | <3 |
| 4148 | 860 | 5.21 | 10 | <2 | <3 |
| 4149 | 694 | 2.94 | 4 | <2 | <3 |

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25-Mar-92

INDEPENDENT EXPLORATION SERVICES LTD.
P.O. Box 7, Station A
Winnipeg, MB
R3K 1Z9

Page: 3
Copy: 1 of 1
Set : 2

Attn: Mr. Lou Chastko
Project: Bear Track

Received: 10-Mar-92 08:01
PO #:

Job: 921023R

Status: Final

Signed:

.....
Jeffrey Davis B.Sc.
Supervisor Environmental Services

BARRINGER LABORATORIES

BARRINGER / ACCURASSAY LABORATORIES
THUNDER BAY DIVISION

5735 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
PHONE: (416) 890-8566
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30-Mar-92

INDEPENDENT EXPLORATION SERVICES LIMITED
P.O. Box 7, Station A
Winnipeg, MB
R3K 1Z9

Page: 1
Copy: 1 of 1
Set : 1

Attn: Mr. Lou Chastko
Project:

Received: 23-Mar-92 10:06

PO #:

Job: 924056T

Status: Final

## Core Samples

| Sample | Au FA/AA3 ppb | Au FA/AA3 oz/T | Mo ICAP ppm | Cu ICAP ppm | Pb ICAP ppm | Zn ICAP ppm | Ag ICAP ppm |
|---|---|---|---|---|---|---|---|
| 4154 | <5 | <0.001 | <1 | 73 | 4 | 39 | <0.1 |
| 4155 | <5 | <0.001 | 1 | 70 | 3 | 127 | 0.4 |
| 4156 | <5 | <0.001 | <1 | 80 | 4 | 73 | 0.5 |
| 4157 | <5 | <0.001 | <1 | 76 | 2 | 37 | 0.5 |
| 4158 | <5 | <0.001 | 1 | 85 | 3 | 112 | 0.4 |
| 4159 | <5 | <0.001 | 1 | 81 | 5 | 105 | 0.5 |
| 4160 | 6 | <0.001 | <1 | 64 | 2 | 56 | 0.6 |
| 4161 | <5 | <0.001 | 1 | 58 | 5 | 71 | 0.4 |
| 4162 | <5 | <0.001 | <1 | 79 | 4 | 75 | 0.3 |
| 4163 | <5 | <0.001 | 1 | 76 | 2 | 85 | 0.4 |
| 4164 | <5 | <0.001 | 2 | 96 | 3 | 171 | 0.3 |
| 4165 | <5 | <0.001 | 1 | 83 | 7 | 87 | 0.2 |
| 4166 | 6 | <0.001 | 1 | 75 | 10 | 76 | 0.3 |

| Sample | Ni ICAP ppm | Co ICAP ppm | Mn ICAP ppm | Fe ICAP % | As ICAP ppm | Sb ICAP ppm | Bi ICAP ppm |
|---|---|---|---|---|---|---|---|
| 4154 | 130 | 40 | 742 | 4.43 | 7 | 2 | <3 |
| 4155 | 163 | 43 | 743 | 4.93 | 34 | 4 | <3 |
| 4156 | 115 | 44 | 724 | 4.45 | 34 | 5 | <3 |
| 4157 | 91 | 41 | 310 | 3.44 | 26 | 2 | <3 |
| 4158 | 153 | 48 | 969 | 4.82 | 35 | 5 | <3 |
| 4159 | 143 | 46 | 910 | 4.59 | 34 | 5 | <3 |
| 4160 | 94 | 34 | 1000 | 4.21 | 39 | 8 | <3 |
| 4161 | 112 | 33 | 1030 | 4.00 | 25 | 2 | <3 |
| 4162 | 185 | 45 | 758 | 5.74 | 28 | 3 | <3 |
| 4163 | 152 | 17 | 753 | 4.54 | 23 | 2 | <3 |
| 4164 | 113 | 34 | 940 | 4.63 | 23 | 2 | <3 |

BARRINGER LABORATORIES

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5735 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
PHONE: (416) 890-8566
FAX: (416) 890-8575

30-Mar-92

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Winnipeg, MB
R3K 1Z9

Page: 2
Copy: 1 of 1
Set : 1

Attn: Mr. Lou Chastko
Project:

Received: 23-Mar-92 10:06

PO #:

Job: 924056T

Status: Final

## Core Samples

| Sample | Ni ICAP ppm | Co ICAP ppm | Mn ICAP ppm | Fe ICAP % | As ICAP ppm | Sb ICAP ppm | Bi ICAP ppm |
|---|---|---|---|---|---|---|---|
| 4165 | 164 | 50 | 688 | 5.08 | 31 | 2 | <3 |
| 4166 | 170 | 43 | 825 | 6.17 | 36 | 2 | <3 |

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30-Mar-92

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Page: 3
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Attn: Mr. Lou Chastko
Project:

Received: 23-Mar-92 10:06

PO #:

Job: 924056T

Status: Final

Signed:

.....

Jeffrey Davis, B.Sc.,C.Chem.
Manager, Thunder Bay Division

BARRINGER LABORATORIES

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THUNDER BAY DIVISION

5735 McADAM ROAD
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8-Apr-92

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P.O. Box 7, Station A
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R3K 1Z9

Page: 1
Copy: 1 of 1
Set : 1

Attn: Mr. Lou Chastko
Project: Bear Track

PO #:

Received: 13-Mar-92

Job: 921025R

Status: Final

## Core Samples

| Sample | Au FA/AA3 ppb | Au FA/AA3 oz/T |
|---|---|---|
| 4150 | 733 | 0.021 |
| 4151 | 25 | <0.001 |
| 4152 | 27 | <0.001 |
| 4153 | 8515 | 0.248 |

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MISSISSAUGA, ONTARIO
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PHONE: (416) 890-8566
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8-Apr-92

INDEPENDENT EXPLORATION SERVICES LTD.
P.O. Box 7, Station A
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Page: 2
Copy: 1 of 1
Set : 2

Attn: Mr. Lou Chastko
Project: Bear Track

PO #:

Received: 13-Mar-92

Job: 921025R

Status: Final

## Core Samples

| Sample | Mo ICAP ppm | Cu ICAP ppm | Pb ICAP ppm | Zn ICAP ppm | Ag ICAP ppm | Ni ICAP ppm | Co ICAP ppm |
|---|---|---|---|---|---|---|---|
| 4150 | 5 | 359 | 23 | 1227 | 1.8 | 116 | 108 |
| 4151 | 2 | 157 | 13 | 505 | 0.1 | 132 | 49 |
| 4152 | 3 | 140 | <2 | 220 | 0.4 | 191 | 59 |
| 4153 | 3 | 116 | 258 | 2615 | 2.1 | 198 | 56 |

| Sample | Mn ICAP ppm | Fe ICAP % | As ICAP ppm | Sb ICAP ppm | Bi ICAP ppm |
|---|---|---|---|---|---|
| 4150 | 409 | 10.69 | 276 | 5 | <3 |
| 4151 | 980 | 9.50 | 24 | 4 | <3 |
| 4152 | 912 | 6.55 | 49 | 3 | <3 |
| 4153 | 508 | 9.26 | 342 | 13 | <3 |

BARRINGER LABORATORIES

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THUNDER BAY DIVISION

5735 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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FAX: (416) 890-8575

8-Apr-92

INDEPENDENT EXPLORATION SERVICES LTD.
P.O. Box 7, Station A
Winnipeg, MB
R3K 1Z9

Page: 3
Copy: 1 of 1
Set : 2

Attn: Mr. Lou Chastko
Project: Bear Track

PO #:

Received: 13-Mar-92

Job: 921025R

Status: Final

Signed:

.....
Jeffrey Davis, B.Sc.,Chem.
Manager, Thunder Bay Division

# WEBB TP. M. 1874

## NOTES

400' surface rights reservation along the shores of all lakes and rivers

**SAND and GRAVEL**

(G) GRAVEL File 156744
(G) GRAVEL File 144049
(G) MTC PIT N°1112

**AREAS WITHDRAWN FROM STAKING**

SR - SURFACE RIGHTS MR-MINING RIGHTS

| Section | Date | Disposition | File |
|---|---|---|---|
| (R) Res for Public use | | | 183473 |

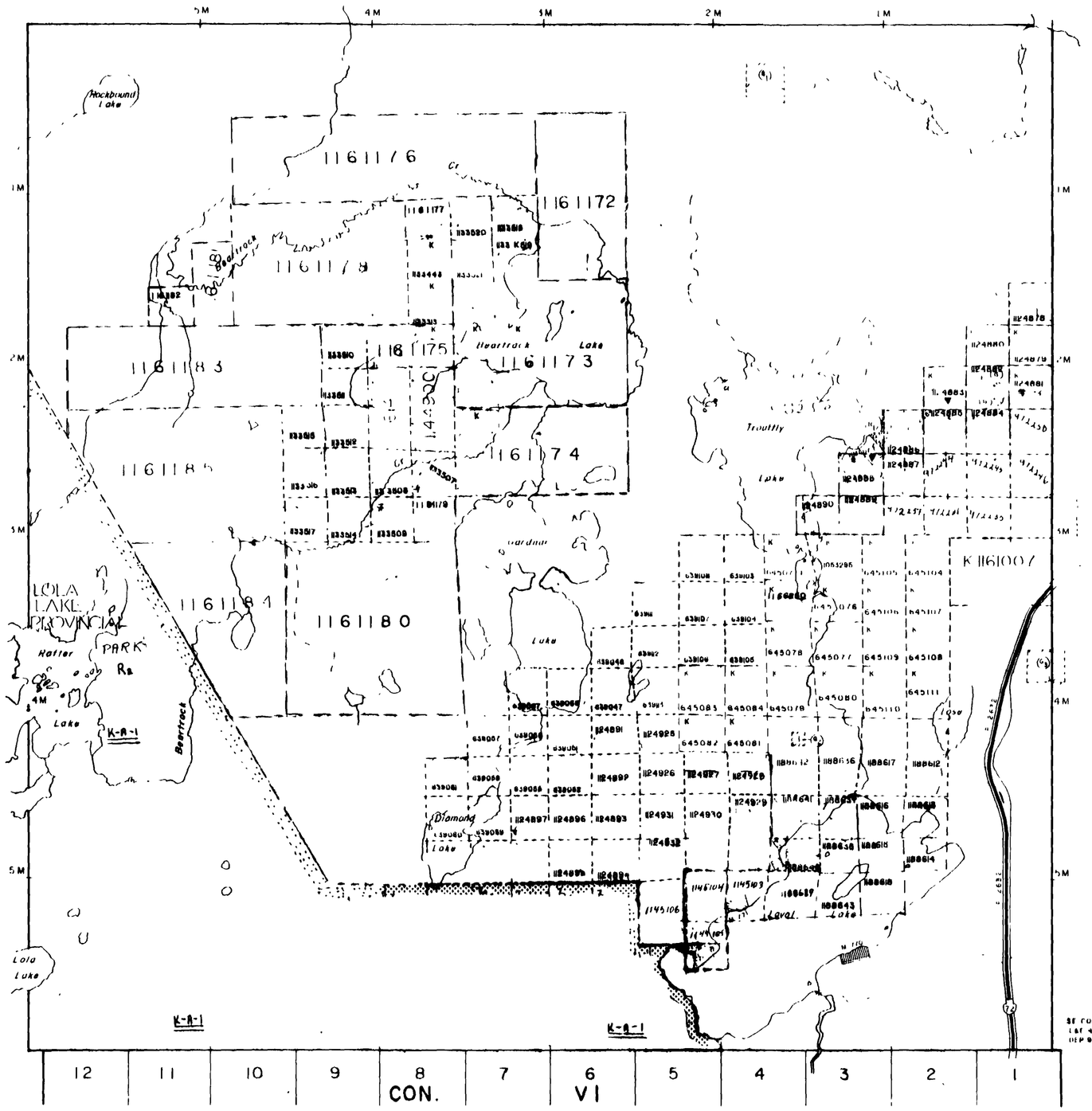
R2 ODM 'W 37/83 S+MR A46231

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON



BROWNRIDGE TP. G 814 ~~M.1954~~




HARTMAN TP. G 820 ~~M.1986~~

McAREE TP. M. 2254

MAP #14

## LEGEND

- HIGHWAY AND ROUTE No
- OTHER ROADS
- TRAILS
- SURVEYED LINES
  - TOWNSHIPS, BASE LINES ETC
  - LOTS, MINING CLAIMS, PARCELS ETC
- UNSURVEYED LINES
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

## DISPOSITION OF CROWN LANDS

| TYPE OF DOCUMENT | | SYMBOL |
|---|---|---|
| PATENT | SURFACE & MINING RIGHTS | ● |
| | SURFACE RIGHTS ONLY | ◐ |
| | MINING RIGHTS ONLY | ◑ |
| LEASE | SURFACE & MINING RIGHTS | ■ |
| | SURFACE RIGHTS ONLY | ◧ |
| | MINING RIGHTS ONLY | ◨ |
| LICENCE OF OCCUPATION | | ▼ |
| CROWN LAND SALE | | CS |
| ORDER IN COUNCIL | | OC |
| RESERVATION | | (R) |
| CANCELLED | | (X) |
| SAND & GRAVE | | (G) |



SCALE 1 INCH 40 CHAINS

FEET 0 500 1000 2000 4000 6000 8000
METRES 0 100 200 400 600 800 1000 2 km

| ACRES | HECTARES |
|---|---|
| 40 | 16 |

TOWNSHIP

# LAVAL

DISTRICT

KENORA

MINING DIVISION

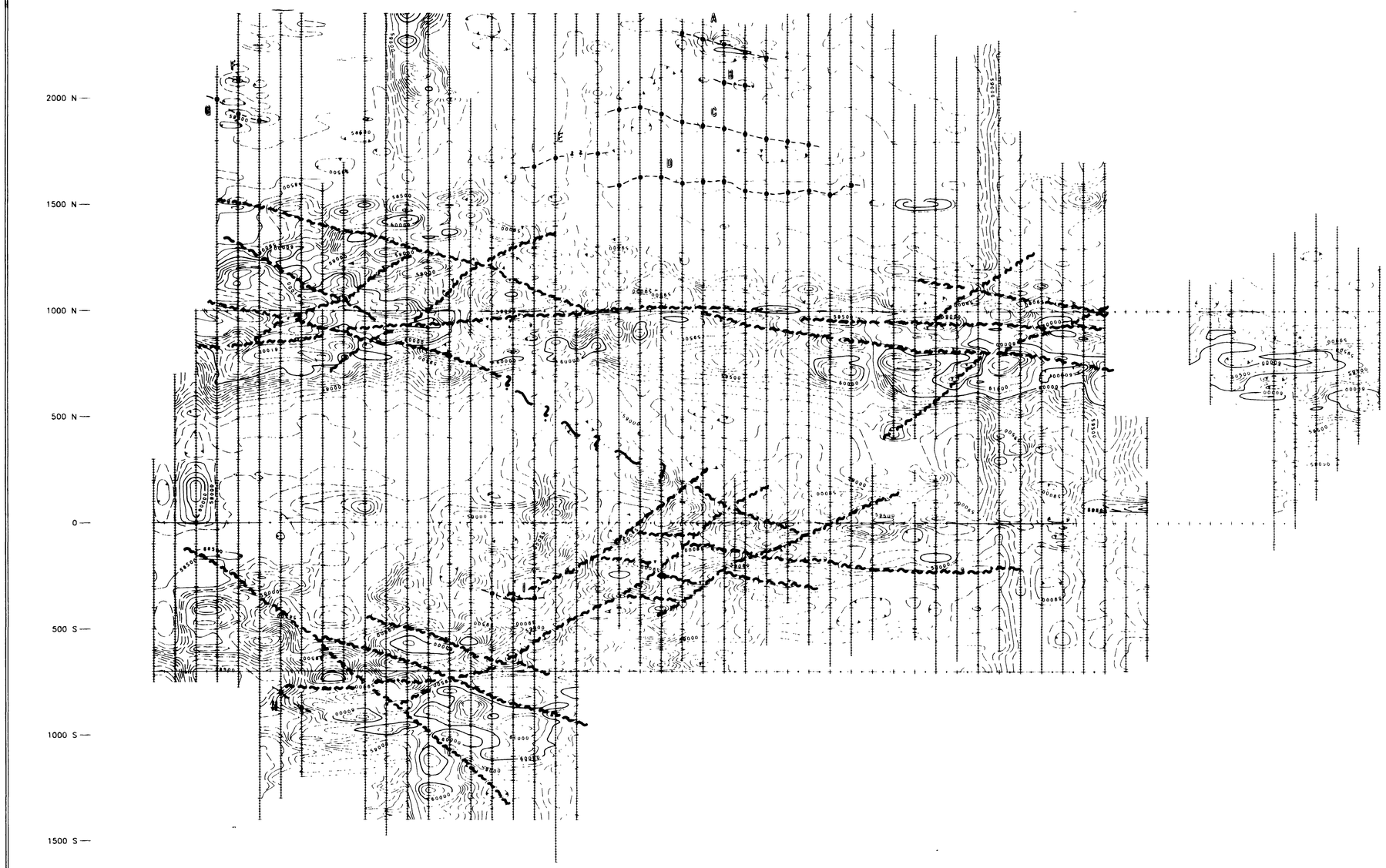
KENORA

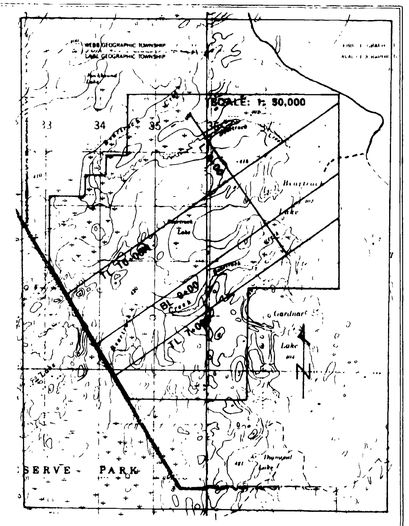
Ministry of Natural Resources
Ontario Surveys and Mapping Branch

Date Nov '74
Whitney Block
Queen's Park Toronto

Plan No ~~M.3370~~

G-0825




VLF-EM CONDUCTORS: A —●—

FAULT & SHEAR ZONES ~~~~

Scale 1:10000

200 0 200 400 600 (metres)

MAP #1

CHAMPION BEAR RESOURCES Ltd.

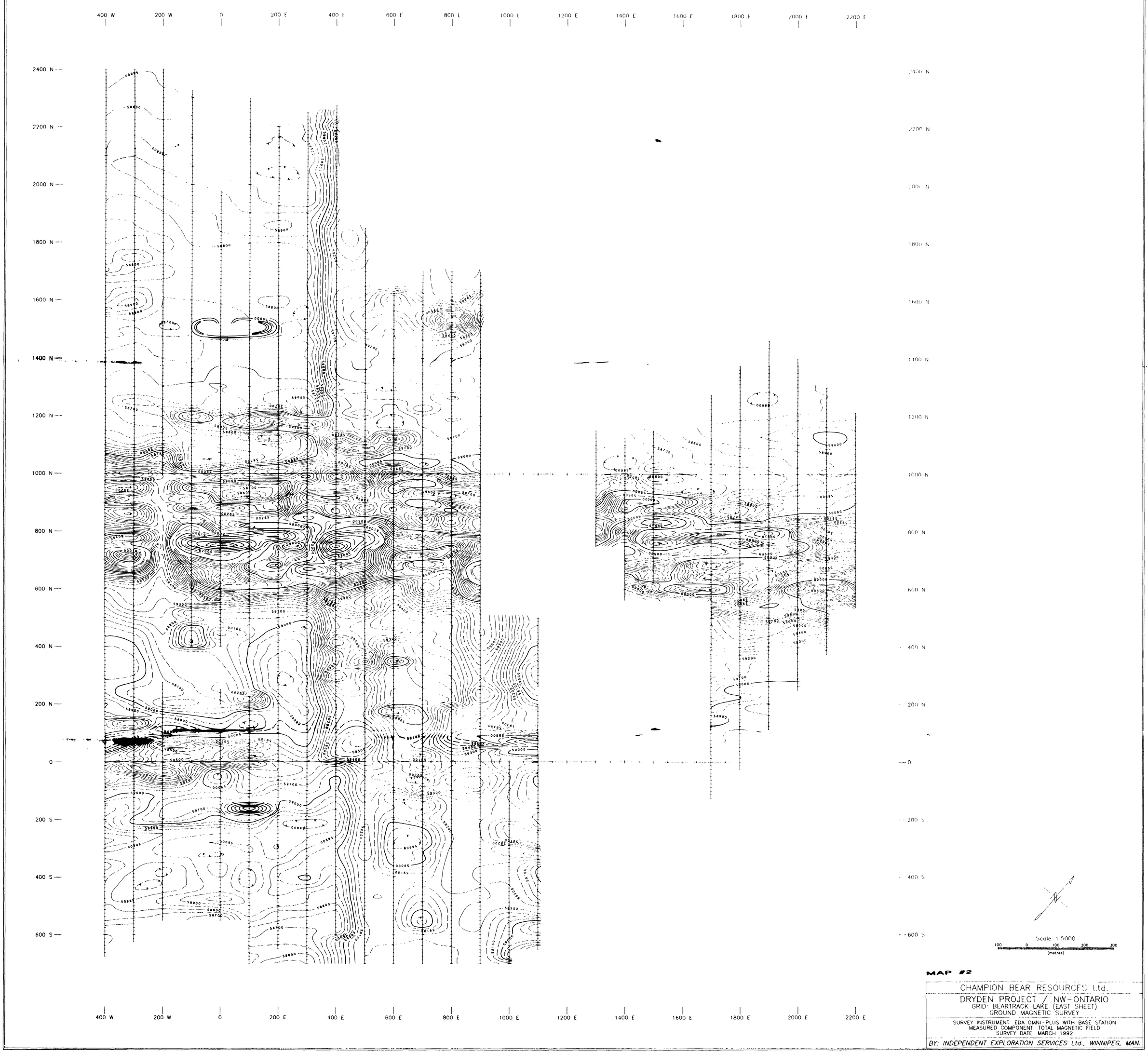
DRYDEN PROJECT / NW-ONTARIO

GRID BEARTRACK LAKE

GROUND MAGNETIC SURVEY

SURVEY INSTRUMENT EDA OMNI-PLUS WITH BASE STATION
MEASURED COMPONENT TOTAL MAGNETIC FIELD
SURVEY DATE MARCH 1992

BY. INDEPENDENT EXPLORATION SERVICES Ltd., WINNIPEG, MAN.



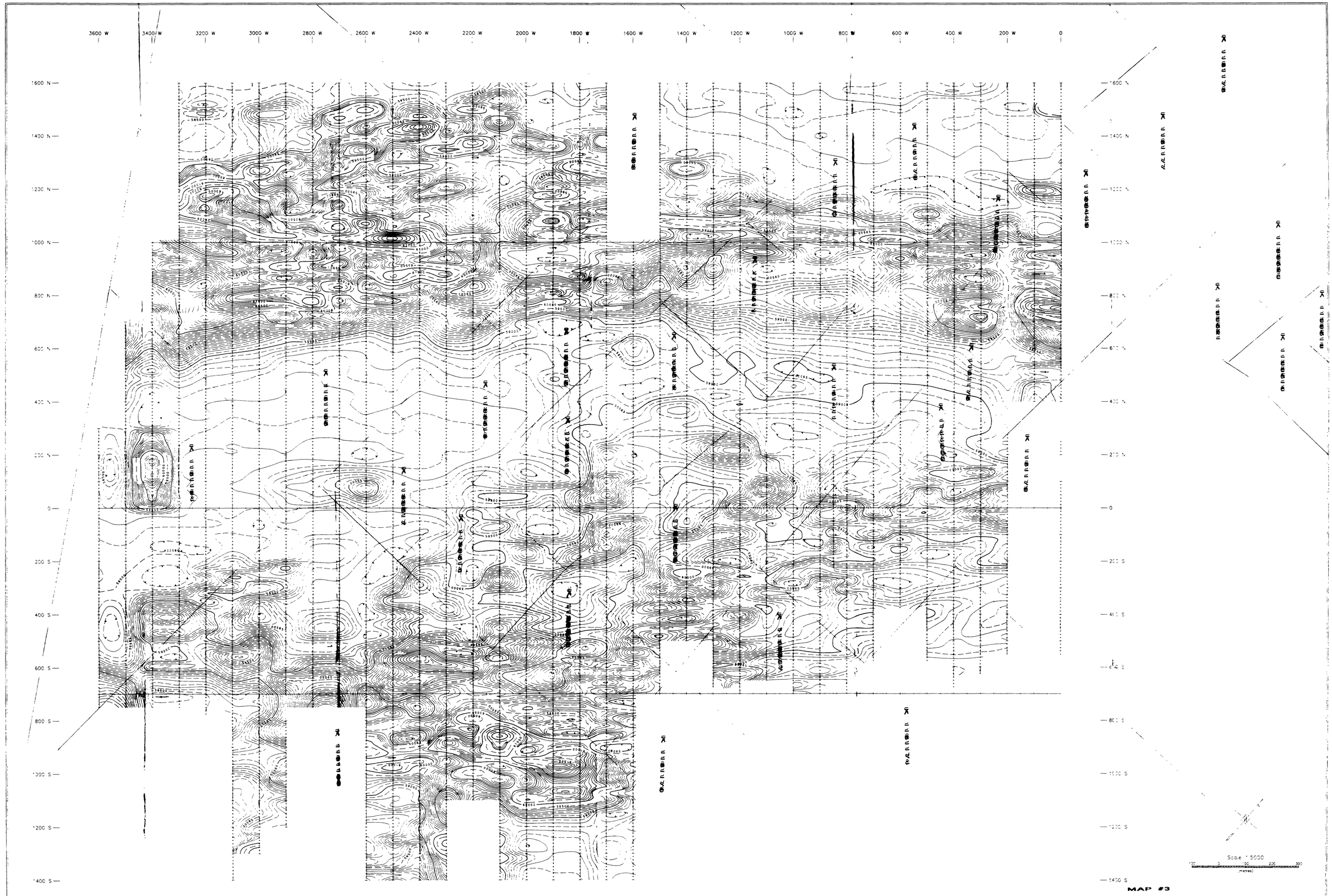

MAP #2

CHAMPION BEAR RESOURCES Ltd.

DRYDEN PROJECT / NW-ONTARIO
GRID: BEARTRACK LAKE (EAST SHEET)
GROUND MAGNETIC SURVEY

SURVEY INSTRUMENT EDA OMNI-PLUS WITH BASE STATION
MEASURED COMPONENT TOTAL MAGNETIC FIELD
SURVEY DATE MARCH 1992

BY: INDEPENDENT EXPLORATION SERVICES Ltd., WINNIPEG, MAN.



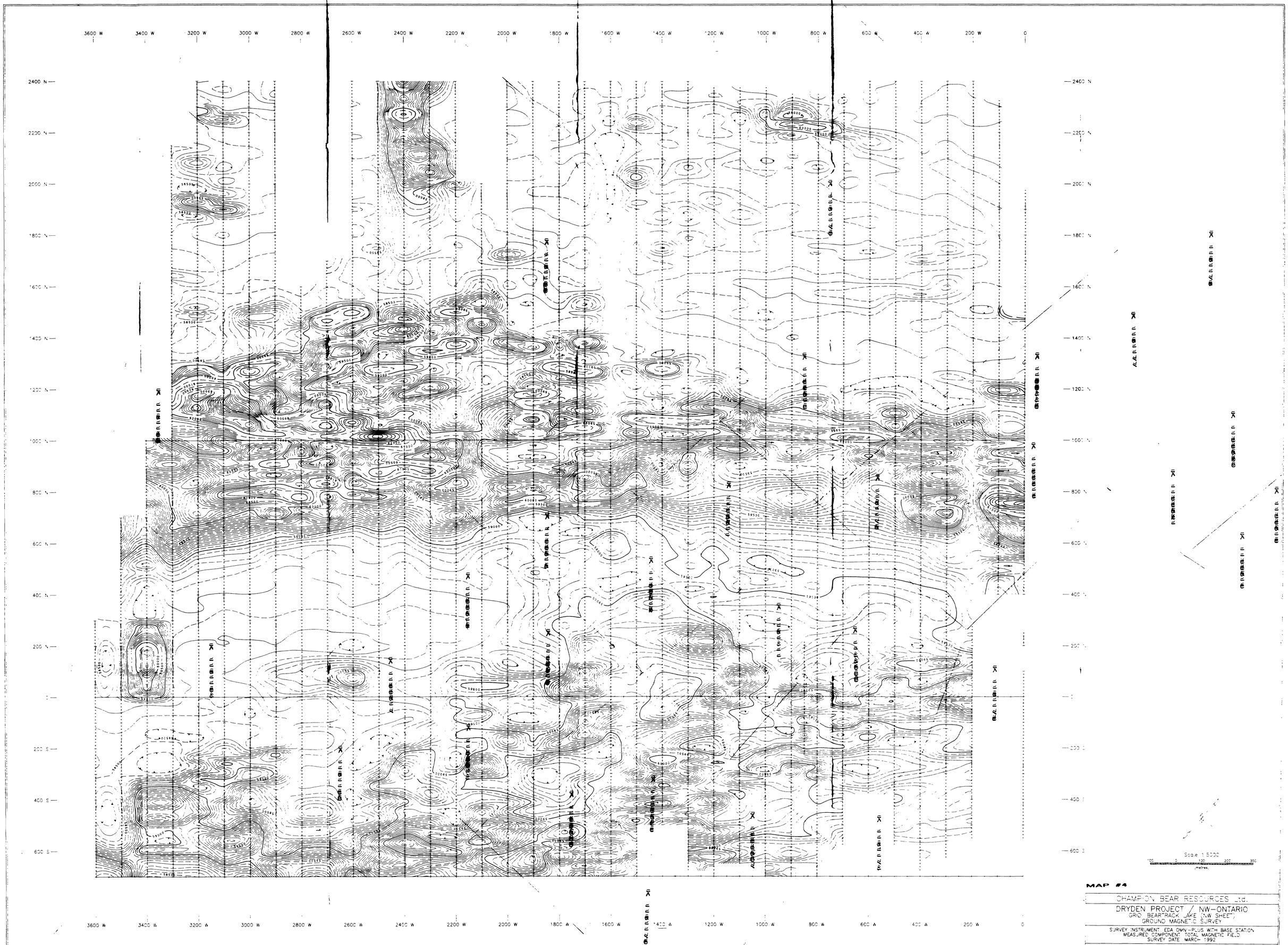

MAP #3

CHAMPION BEAR RESOURCES Ltd.

DRYDEN PROJECT / NW-ONTARIO
GRID BEARTRACK LAKE (SW SHEET)
GROUND MAGNETIC SURVEY

SURVEY INSTRUMENT EDA OMNI-PLUS WITH BASE STATION
MEASURED COMPONENT TOTAL MAGNETIC FIELD
SURVEY DATE MARCH 1992

BY: INDEPENDENT EXPLORATION SERVICES Ltd., WINNIPEG, MAN.



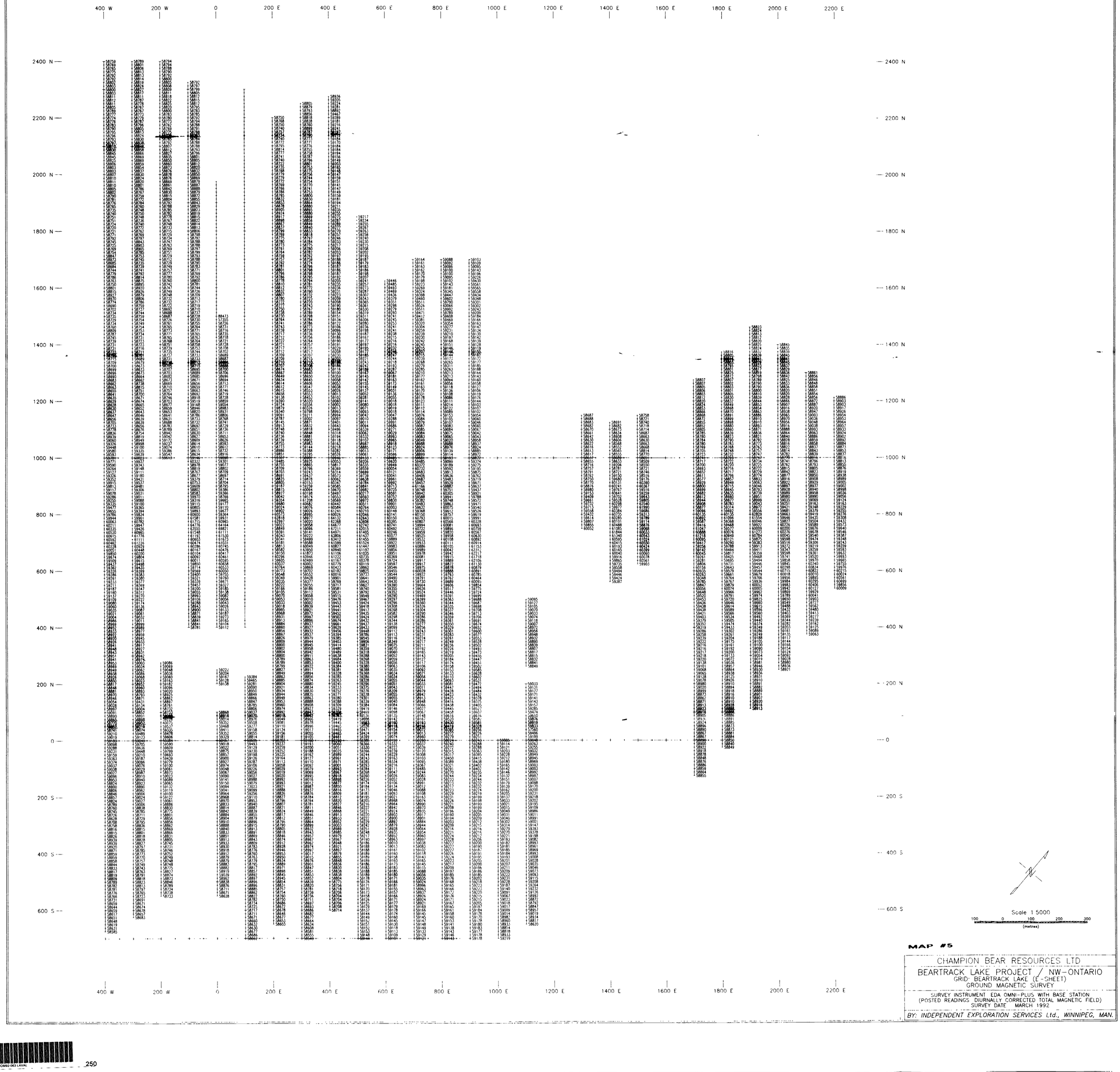

MAP #4

CHAMPION BEAR RESOURCES Ltd.

DRYDEN PROJECT / NW-ONTARIO
GRID: BEARTRACK LAKE (NW SHEET)
GROUND MAGNETIC SURVEY

SURVEY INSTRUMENT: EDA OMNI-PLUS WITH BASE STATION
MEASURED COMPONENT: TOTAL MAGNETIC FIELD
SURVEY DATE: MARCH 1992

BY: INDEPENDENT EXPLORATION SERVICES Ltd., WINNIPEG, MAN.




**MAP #5**

CHAMPION BEAR RESOURCES LTD

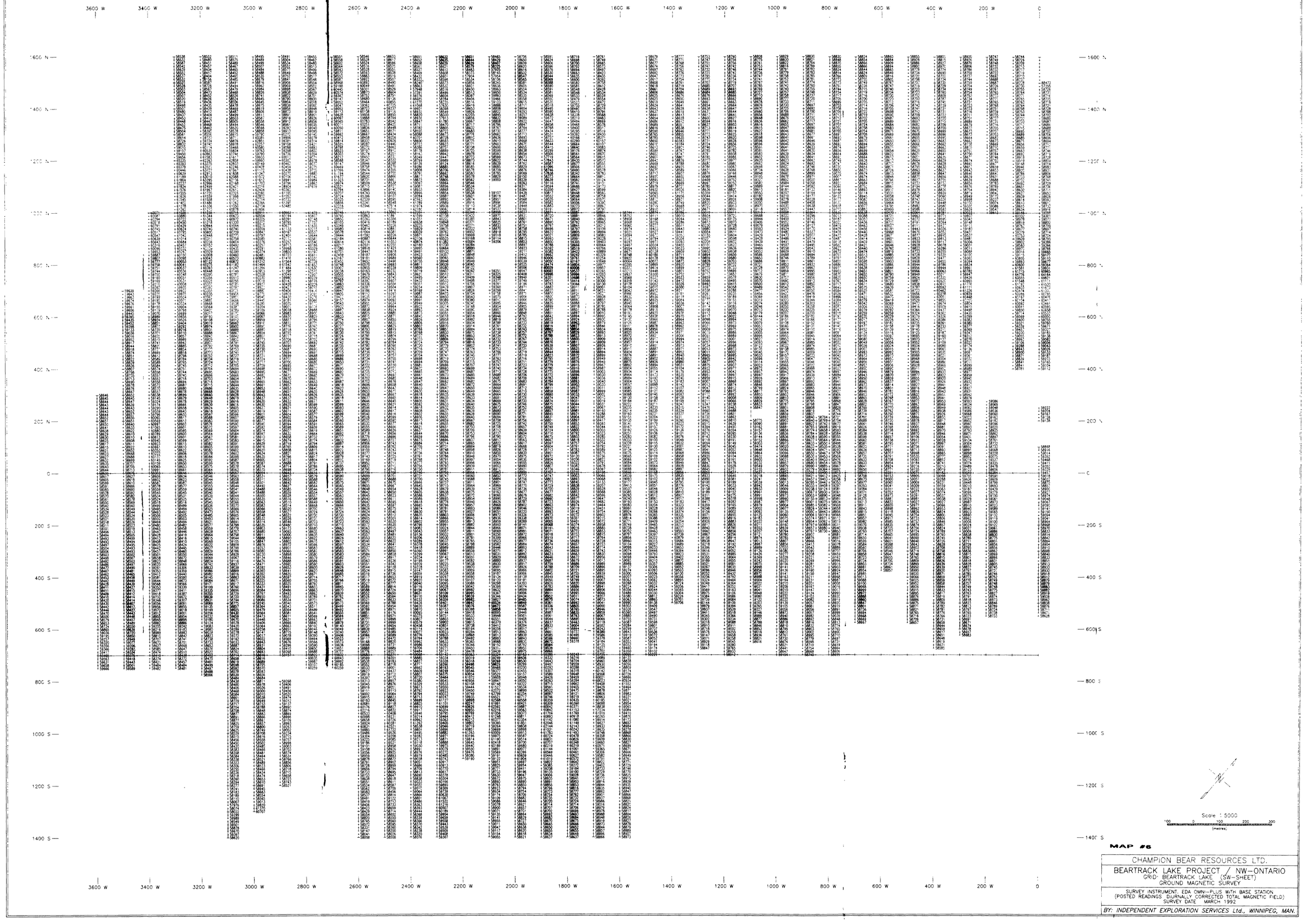
BEARTRACK LAKE PROJECT / NW-ONTARIO

GRID: BEARTRACK LAKE (E-SHEET)

GROUND MAGNETIC SURVEY

SURVEY INSTRUMENT EDA OMNI-PLUS WITH BASE STATION
(POSTED READINGS DIURNALLY CORRECTED TOTAL MAGNETIC FIELD)
SURVEY DATE MARCH 1992

BY: INDEPENDENT EXPLORATION SERVICES Ltd., WINNIPEG, MAN.




Scale : 5000

100 0 100 200 300

(metres)

**MAP #6**

CHAMPION BEAR RESOURCES LTD.

BEARTRACK LAKE PROJECT / NW–ONTARIO

GRID: BEARTRACK LAKE (SW–SHEET)

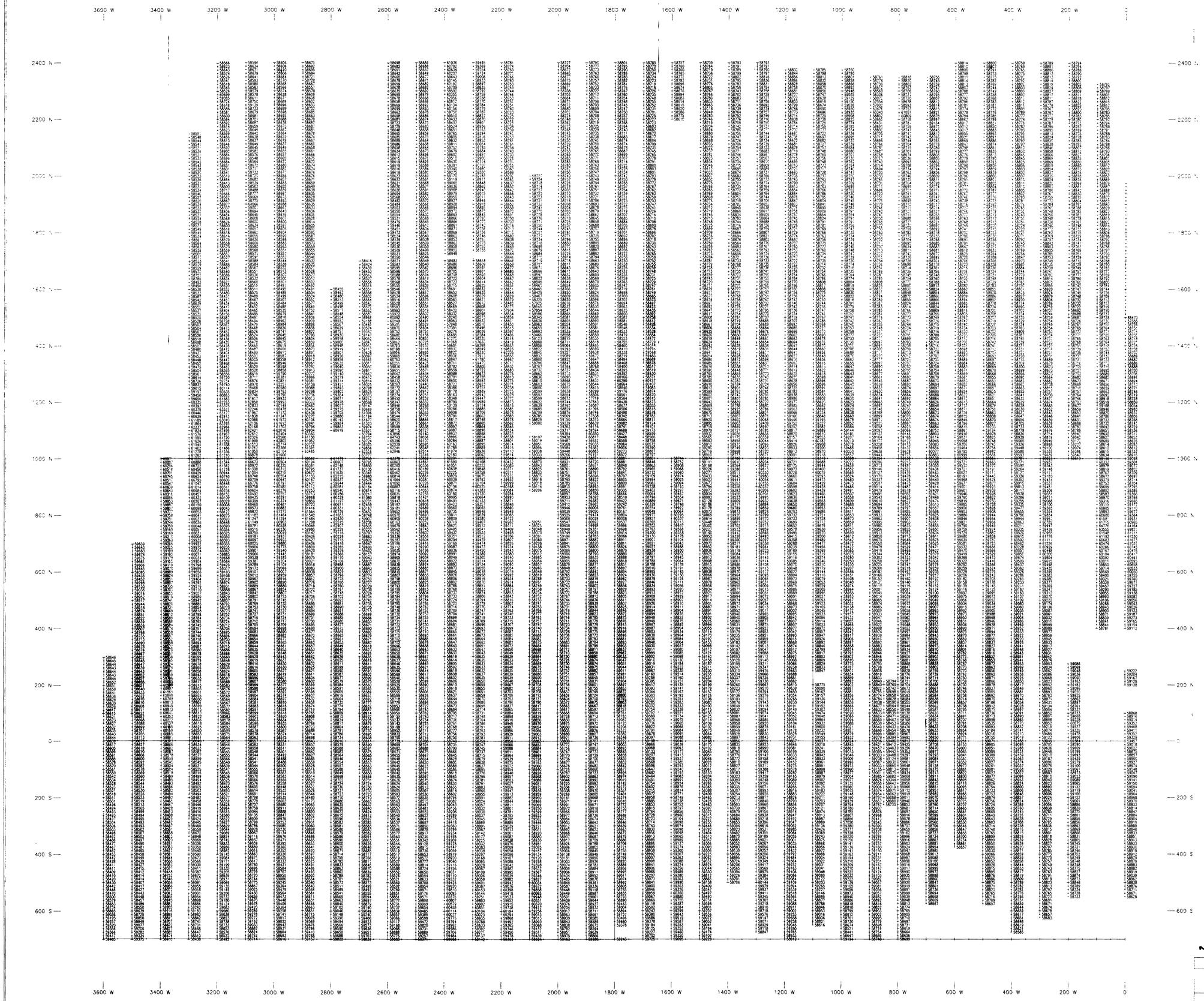
GROUND MAGNETIC SURVEY

SURVEY INSTRUMENT: EDA OMNI–PLUS WITH BASE STATION

(POSTED READINGS DIURNALLY CORRECTED TOTAL MAGNETIC FIELD)

SURVEY DATE: MARCH 1992

BY: INDEPENDENT EXPLORATION SERVICES Ltd., WINNIPEG, MAN.




Scale 1:5000

100 0 100 200 300 (metres)

**MAP #7**

CHAMPION BEAR RESOURCES LTD.

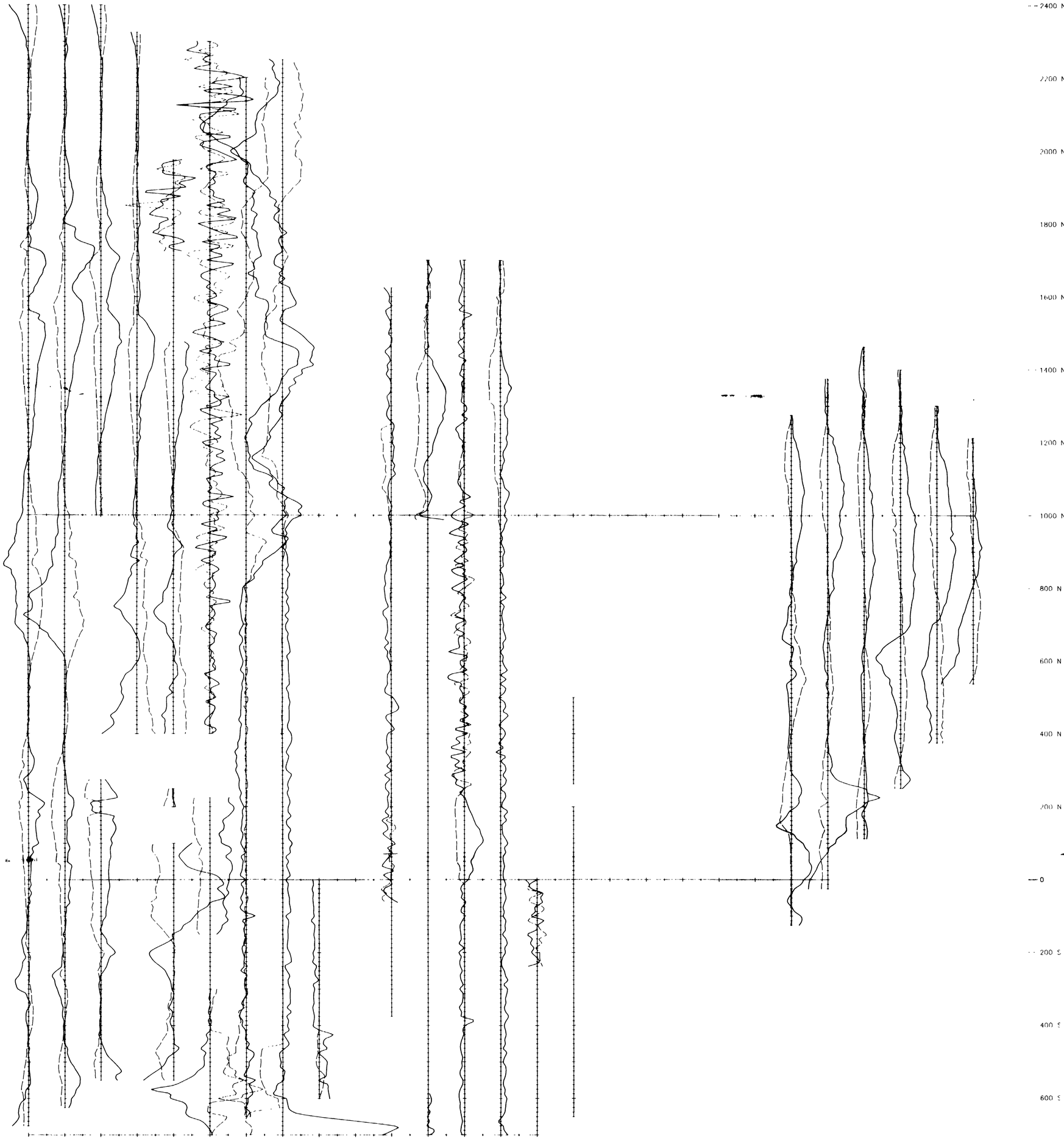
BEARTRACK LAKE PROJECT / NW-ONTARIO
GRID BEARTRACK LAKE (NW-SHEET)
GROUND MAGNETIC SURVEY

SURVEY INSTRUMENT EDA OMNI-PLUS WITH BASE STATION
(POSTED READINGS DIURNALLY CORRECTED TOTAL MAGNETIC FIELD)
SURVEY DATE MARCH 1992

BY: INDEPENDENT EXPLORATION SERVICES Ltd., WINNIPEG, MAN.

400 W 200 W 0 200 E 400 E 600 E 800 E 1000 E 1200 E 1400 E 1600 E 1800 E 2000 E 2200 E

2400 N
2200 N
2000 N
1800 N
1600 N
1400 N
1200 N
1000 N
800 N
600 N
400 N
200 N
0
200 S
400 S
600 S



Scale 1:5000

100 0 100 200 300
(metres)

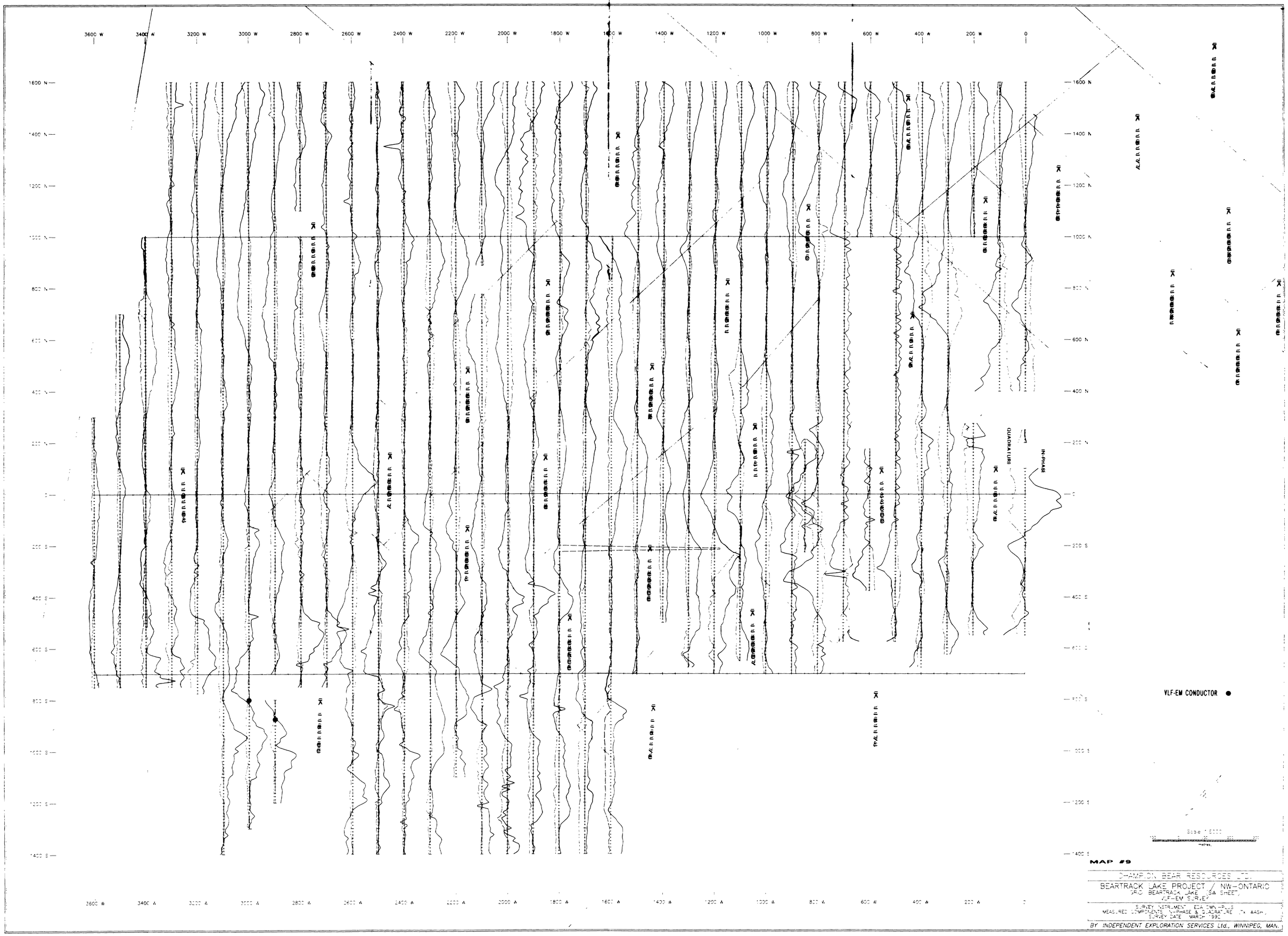
MAP #8

CHAMPION BEAR RESOURCES LTD.

BEARTRACK LAKE PROJECT / NW-ONTARIO
GRID: BEARTRACK LAKE (E-SHEET)
VLF-EM SURVEY

SURVEY INSTRUMENT: EDA OMNI-PLUS
MEASURED COMPONENTS: IN-PHASE & QUADRATURE (Tx. WASH.)
SURVEY DATE: MARCH 1992

BY: INDEPENDENT EXPLORATION SERVICES Ltd., WINNIPEG, MAN.


3600 W
3400 W
3200 W
3000 W
2800 W
2600 W
2400 W
2200 W
2000 W
1800 W
1600 W
1400 W
1200 W
1000 W
800 W
600 W
400 W
200 W
0
1600 N
1400 N
1200 N
1000 N
800 N
600 N
400 N
200 N
0
200 S
400 S
600 S
800 S
1000 S
1200 S
1400 S
IN-PHASE
QUADRATURE
VLF-EM CONDUCTOR
Scale 1:5000
metres
MAP #9
CHAMPION BEAR RESOURCES LTD.
BEARTRACK LAKE PROJECT / NW-ONTARIO
GRID: BEARTRACK LAKE - SW SHEET
VLF-EM SURVEY
SURVEY INSTRUMENT: EDA OMNI-PLUS
MEASURED COMPONENTS: IN-PHASE & QUADRATURE (Tx: NAA)
SURVEY DATE: MARCH '89
BY: INDEPENDENT EXPLORATION SERVICES Ltd., WINNIPEG, MAN.

CHAPLEAU RESOURCES LTD.

BEARTRACK LAKE PROJECT / NW-ONTARIO
BEARTRACK LAKE
VLF-EM SURVEY

MEASURED COMPONENTS: IN-PHASE & QUADRATURE
SURVEY INSTRUMENT: ECA OMNI-PLUS
FREQUENCY: 24.0 KHz (NAA, Cutler, Maine)
DATE: March 1992

BY: INDEPENDENT EXPLORATION SERVICES Ltd., WINNIPEG, MAN.

MAP #10

VLF-EM CONDUCTOR

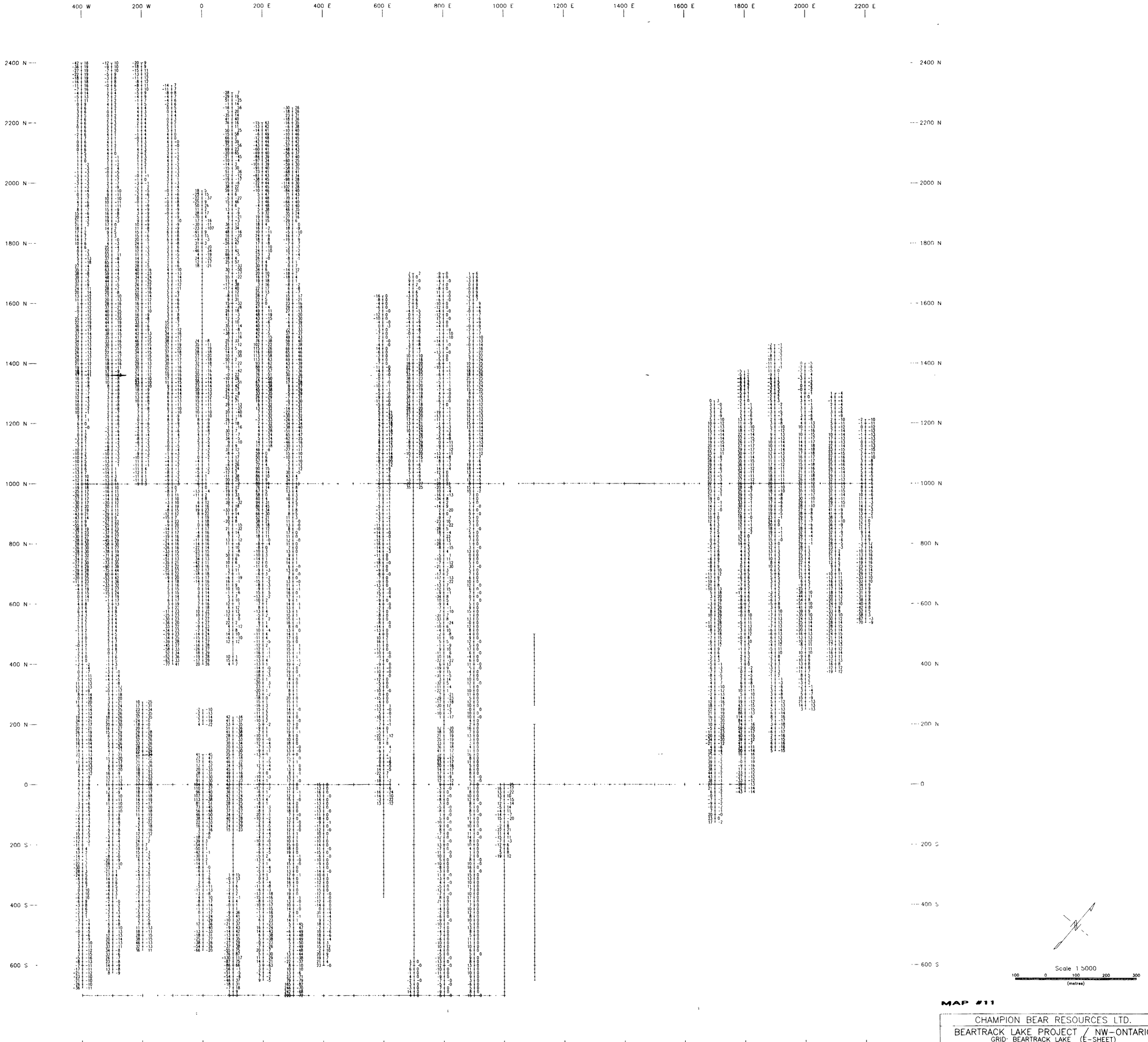
IN-PHASE

QUADRATURE

Scale 1:5000

2400 N 2200 N 2000 N 1800 N 1600 N 1400 N 1200 N 1000 N 800 N 600 N 400 N 200 N 0 200 S 400 S 600 S

0 200 W 400 W 600 W 800 W 1000 W 1200 W 1400 W 1600 W 1800 W 2000 W 2200 W 2400 W 2600 W 2800 W 3000 W 3200 W 3400 W 3600 W



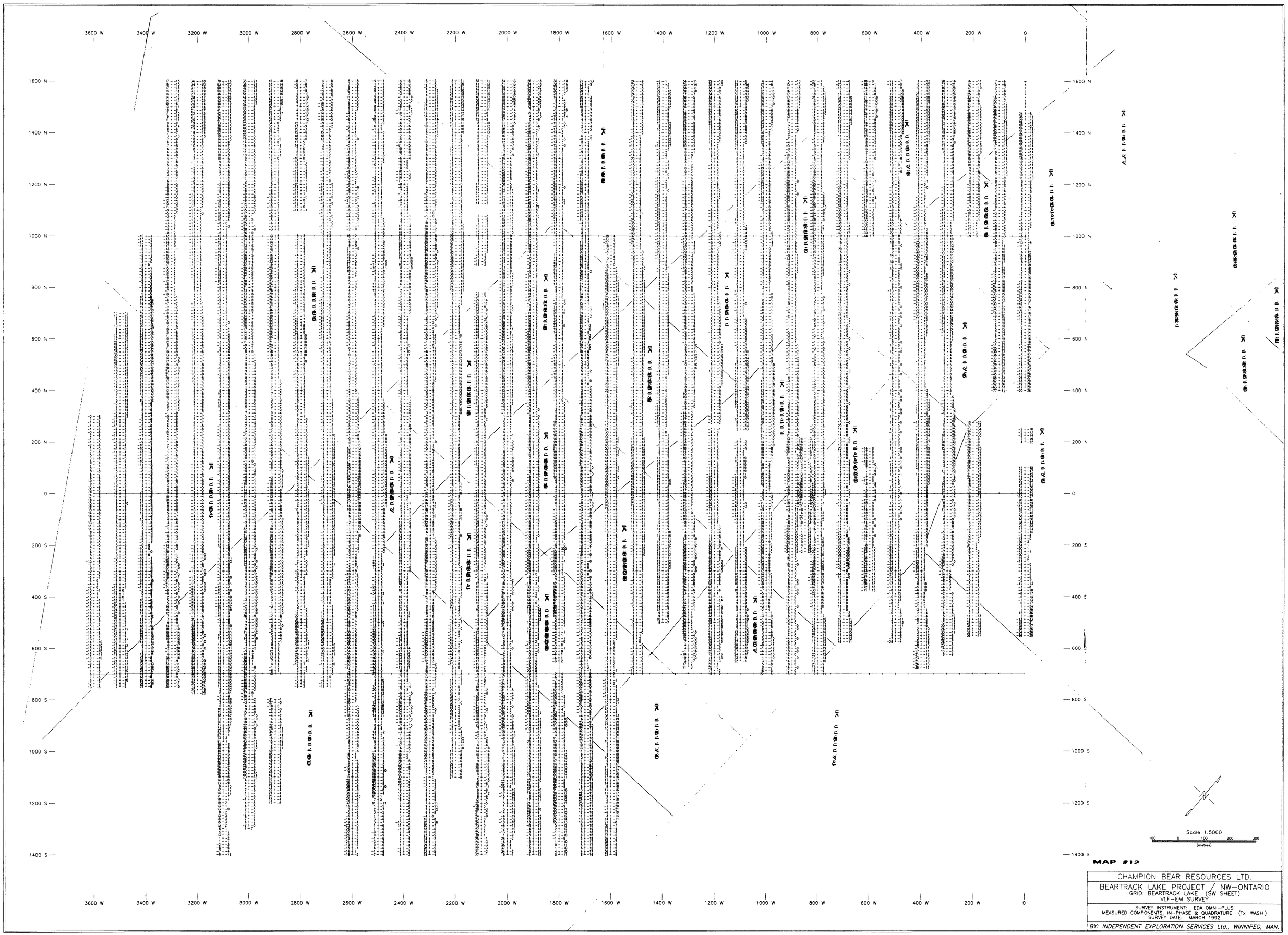

MAP #11

CHAMPION BEAR RESOURCES LTD.

BEARTRACK LAKE PROJECT / NW-ONTARIO
GRID: BEARTRACK LAKE (E-SHEET)
VLF-EM SURVEY

SURVEY INSTRUMENT: EDA OMNI-PLUS
MEASURED COMPONENTS IN-PHASE & QUADRATURE (Tx: WASH.)
SURVEY DATE: MARCH 1992

BY: INDEPENDENT EXPLORATION SERVICES Ltd., WINNIPEG, MAN.




CHAMPION BEAR RESOURCES LTD.

BEARTRACK LAKE PROJECT / NW–ONTARIO
GRID: BEARTRACK LAKE (SW SHEET)
VLF–EM SURVEY

SURVEY INSTRUMENT: EDA OMNI–PLUS
MEASURED COMPONENTS: IN–PHASE & QUADRATURE (Tx WASH)
SURVEY DATE: MARCH 1992

*BY: INDEPENDENT EXPLORATION SERVICES Ltd., WINNIPEG, MAN.*

CHAMPION BEAR RESOURCES LTD.

BEARTRACK LAKE PROJECT / NW-ONTARIO
GRID BEARTRACK LAKE (NW SHEET)
VLF-EM SURVEY

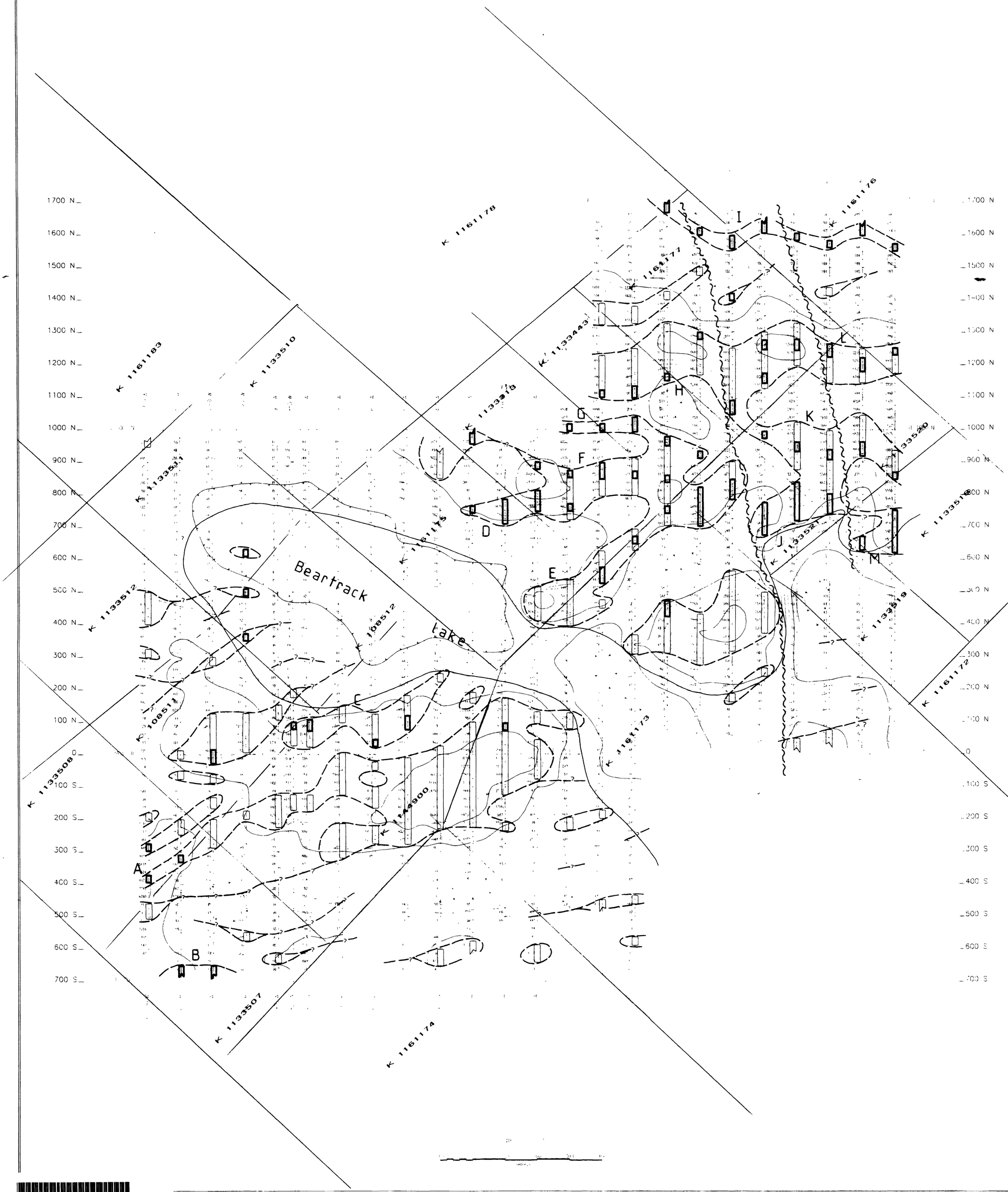
SURVEY INSTRUMENT: EDA OMNI-PLUS
MEAS-RED COMPONENT: IN-PHASE & QUADRATURE (Tx: WASH)
SURVEY DATE: MARCH 1992

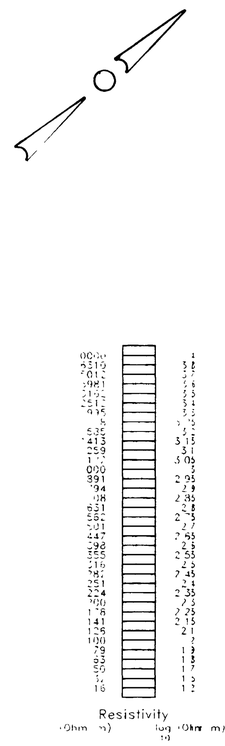
BY: INDEPENDENT EXPLORATION SERVICES Ltd., WINNIPEG, MAN.

MAP #13

Scale 1:5000
0 100 200 300 (metres)

330




## LEGEND

### INTERPRETATION

Unit of higher polarization associated with a relative decrease in the apparent resistivity. Well connected, conductive metallic minerals. Stringer surfaces in a strongly sheared structure.

Unit of higher polarization with little or no associated decrease of the apparent resistivity. Stringer or disseminated, poorly conductive metallic minerals. Massive magnetite. Micaceous minerals.

Weak or poorly defined polarization anomaly with no apparent signature of resistivity. Thin, discontinuous veins of metallic minerals. Magnetite, clay or micaceous minerals.

H — High resistivity feature. Bedrock ridge, thinner overburden, high resistivity unit

L — Low resistivity feature. Bedrock valley, thicker overburden, low resistivity unit

Possible tectonic or structural boundaries

### GENERAL.

Interpreted shear zone

Interpreted fault

### CONTOUR INTERVAL (Ohm-metre)

Logarithmic contours

3.2 — 10, 16, 25, 40,

1.0 — 10, 100, 1000,

Electrode array: Dipole-dipole
a = 25 m, n = 1,2,3,4,5,6

Instruments: BRGM IP-6, Phoenix IPT1

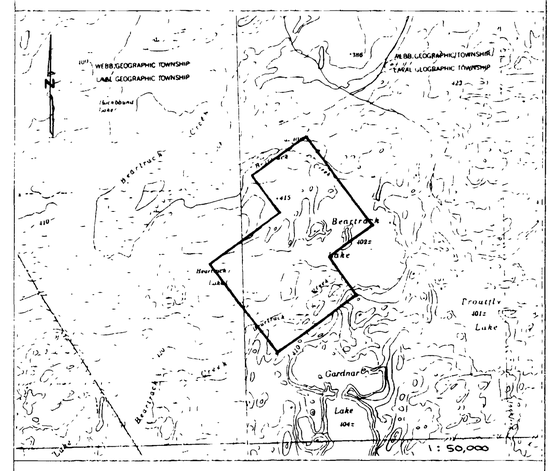
Filter calculation

35 Map reading (Ohm-metre)

380 n = 1

270 162 n = 2

152 338 562 n = 3




# CHAMPION BEAR RESOURCES LTD

## BEARTRACK LAKE PROJECT

## INDUCED POLARIZATION SURVEY

RESISTIVITY CONTOURS (FILTER)

*VAL D'OR GEOPHYSIQUE LTEE*

| | |
|---|---|
| Interpreted by: P. Lortie, Eng. | Date 2/1992 |
| Scale 1 : 5000 | Drawing no. 92-785-4.2 |