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GEOLOGICAL AND GEOPHYSICAL REPORT ON THE PREMIER GOLD PROPERTY

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Ministère de l'Énergie et des Ressources
Service de la Géoinformation
Date: 10 AOUT 1988
No G.M.: 47020

GEOLOGICAL AND GEOPHYSICAL REPORT

ON THE PREMIER GOLD PROPERTY

DASSERAT TOWNSHIP,

ROUYN-NORANDA, QUEBEC

NTS 32D/3

Longitude 79°28'W
Latitude 48°09'N

FOR

Premier Gold Resources Inc.
301 - 535 Howe Street
Vancouver, B.C.
V6J 1T5

BY

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March 1988

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SUMMARY

Hi-Tec Resource Management Limited conducted a mineral exploration program during the winter of 1987-1988 on behalf of Premier Gold Resources Inc. The Premier Gold property is situated approximately 35 km southwest of the town of Rouyn-Noranda, Quebec. Access to the property is by paved Highway No. 117 and a network of trails. Secondary roads give very good access to various parts of the property.

The Premier Gold property consists of 40 contiguous mineral claims owned by Premier Gold Resources Inc.

The Rouyn-Noranda area has been known since the beginning of the century for its gold, copper and zinc mining potential. Numerous mines have been developed along the major Larder-Cadillac break. Exploration and previous work on the property dates back to 1955-56. Prospecting, geochemical and geophysical surveys, and limited diamond drilling were carried out on the property in 1961-63.

Based on the geologic information gathered from 1988 exploration program and the results of previous work, the property is underlain by the series of Archean Pontiac sediments, Proterozoic Cobalt conglomerates of the Abitibi greenstone belt and later granite intrusions.

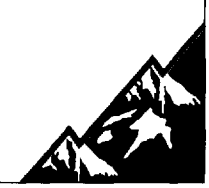
Sulphide mineralization occurs in the sedimentary area as filled fractures with associated replacement minerals. Well developed fracture patterns exist along the Horne Creek Fault, which crosses the property. The Horne Creek Fault is believed to be part of the Larder-Cadillac break, which is well known for hosting precious metal and base metal deposits. The presence of these faults in combination with the granite intrusions provides a favourable host area for precious metal concentrations on the property.

Anomalous precious metal values (up to 0.20 g Au/t, 1.6 ppm Ag) have been recorded from rock samples collected on the Premier Gold property.

The ground geophysical program, consisting of VLF-EM, magnetometer and UTEM surveys gave very encouraging results within the surveyed area. Several strong to weak conductive zones have been delineated. The most prominent VLF conductor, which is coincident with the UTEM conductor, shows on east-west trending zone, which is interpreted to be a major fault zone on the property (Horne Creek Fault). Good potential exists for precious metal mineralization associated with this fault.

The property location allows for easy accessibility and year round work. In addition, favourable geology for both precious and base metals and the presence of geochemical and geophysical anomalies warrant a follow-up program.

An exploration program consisting of additional geochemical sampling, geophysical surveys and diamond drilling of VLF-EM and UTEM conductive zones is recommended.



1.0 INTRODUCTION

Pursuant to a request by Premier Gold Resources Inc. a limited geochemical rock sampling and an extensive geophysical program consisting of VLF-EM, Magnetometer and UTEM surveys was carried out over the selected area of the property by Hi-Tec Resource Management Ltd. between January 9 and January 21, 1988. The purpose of the exploration program was to explore the precious and/or base metal potential of the mineral claims and to delineate diamond drilling targets within the property.

This report is based on the results of the 1988 exploration program and on the available literature pertaining to the area. The author conducted the VLF-EM and Magnetometer surveys which were interpreted by geophysicist B. Elduayen, B.Sc. The UTEM survey and interpretation was done by Lamontagne Geophysics of Toronto.

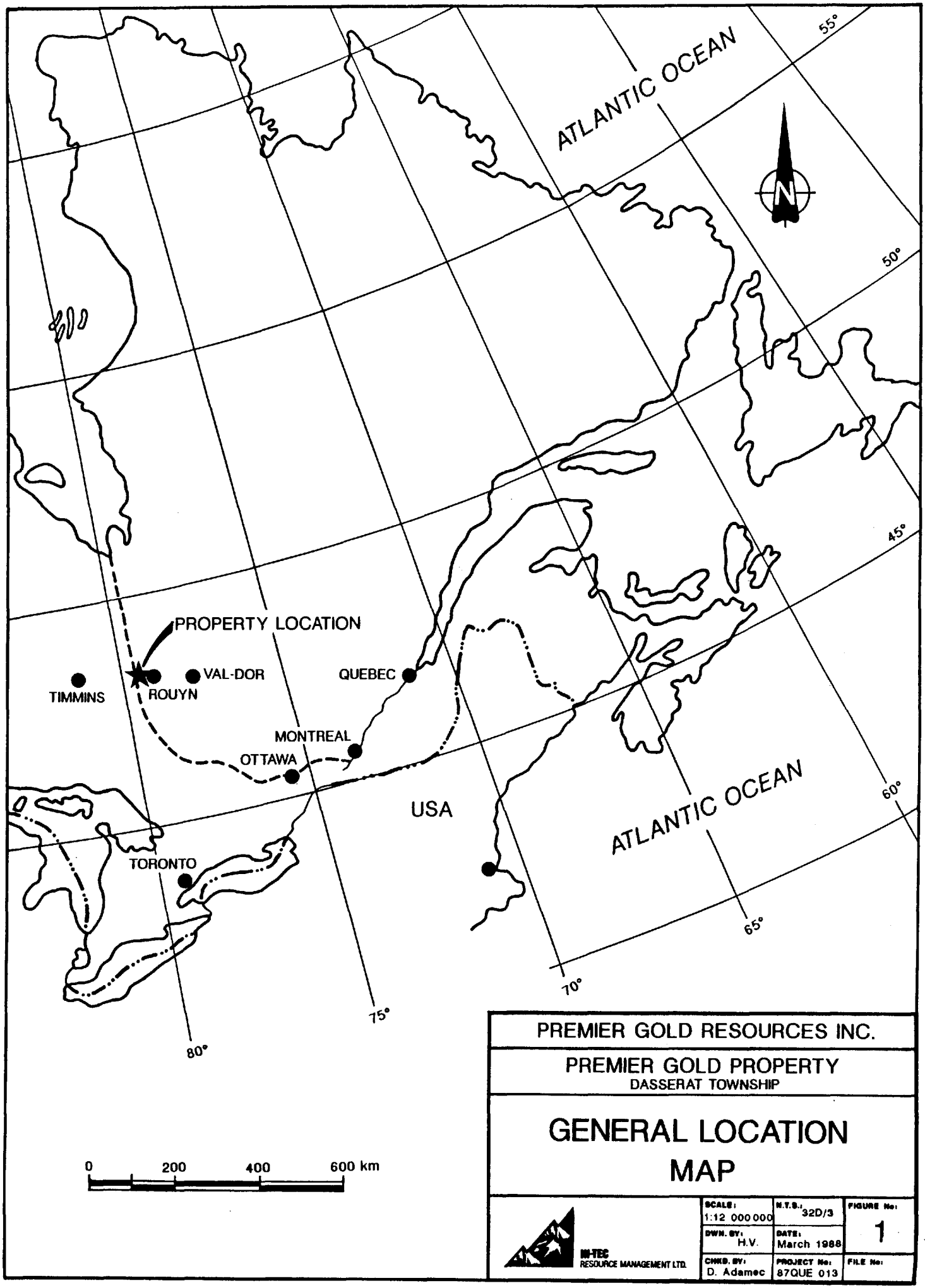
1.1 Location and Access

The Dasserat Township mineral claims are located approximately 35 km southwest of the town of Rouyn-Noranda, Quebec. The property lies on NTS Map Sheet 32-D/3 and is centered at latitude 48°09' north and longitude 79°28' west (Figure 1).

Easy access to the property is gained by two wheel drive vehicle along paved Highway No. 117, which crosses the property. A network of trails and secondary roads give good access to various parts of the property.

1.2 Property and Ownership

The Premier Gold property consists of 40 contiguous mineral claims which were staked originally by Mr. D. Cote in



PREMIER GOLD RESOURCES INC.

PREMIER GOLD PROPERTY
DASSERAT TOWNSHIP

GENERAL LOCATION MAP

M-TEC RESOURCE MANAGEMENT LTD.	SCALE: 1:12 000 000	N.T.S.: 32D/3	FIGURE No: 1
	DWN. BY: H.V.	DATE: March 1988	
	CHKD. BY: D. Adamec	PROJECT No: 87QUE 013	FILE No:

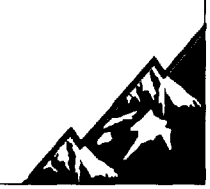
December 1986 and were recorded at the Rouyn-Noranda mining recorder's office.

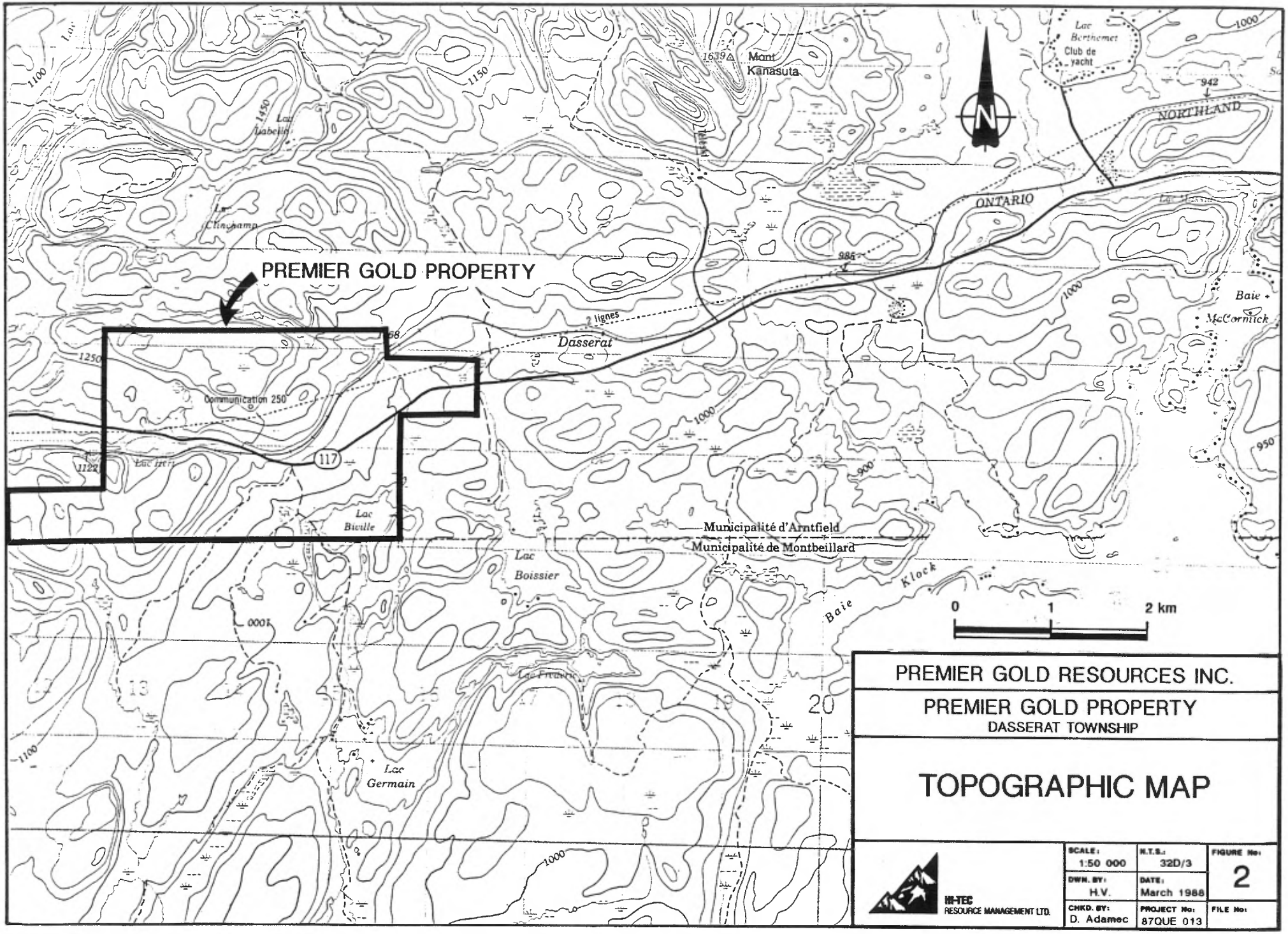
A table of pertinent claim data is given below.

License No.	Claim No.	Expiry Date*
456338	3	December 19, 1987
456338	4,5	December 20, 1987
456339	1	December 24, 1987
456339	2,3,4	December 26, 1987
456340	1,2,3	December 27, 1987
456345	1,2,3	December 20, 1987
456345	4,5	December 21, 1987
456346	1,2	December 21, 1987
456346	3,4,5	December 22, 1987
456347	1,2,3,4	December 23, 1987
456347	5	December 22, 1987
456348	3,4	December 19, 1987
456348	5	December 20, 1987
456349	1,2,3,4	December 26, 1987
456350	1,2,3	December 27, 1987
456350	4	December 30, 1987
456351	3,4	January 15, 1988
456352	4,5	December 23, 1987

* A six month extention to file work has been granted by the Quebec government.

The claims are now 100% owned by Premier Gold Resources Inc. and are situated some 35 kilometers southwest of Rouyn-Noranda, Quebec. The entire property is shown on the Mineral Claim Map (Figure 2).




PREMIER GOLD PROPERTY
Mont Kanasuta
1639
Lac Berthemet
Club de yacht
NORTHLAND
ONTARIO
Lac Labelle
Lac Clinchamp
Dasserat
2 lignes
Communication 250
117
Lac Bieville
Municipalité d'Arntfield
Municipalité de Montbeillard
Lac Boissier
Baie Klock
Baie McCormick
Lac Germain
0 1 2 km
PREMIER GOLD RESOURCES INC.
PREMIER GOLD PROPERTY
DASSERAT TOWNSHIP
TOPOGRAPHIC MAP
HI-TEC RESOURCE MANAGEMENT LTD.
SCALE: 1:50 000
N.T.S.: 32D/3
FIGURE No: 2
DWN. BY: H.V.
DATE: March 1988
CHKD. BY: D. Adamec
PROJECT No: 87QUE 013
FILE No:

1.3 Physiography

The topography of the claim area is generally low to moderate, comprising a low hill at the southwest corner of the property, rising to a maximum of 92 meters above the level of Lac Hert (338.00 meters A.S.L.). Elevation within the property ranges from 338 meters to 430 meters above sea level.

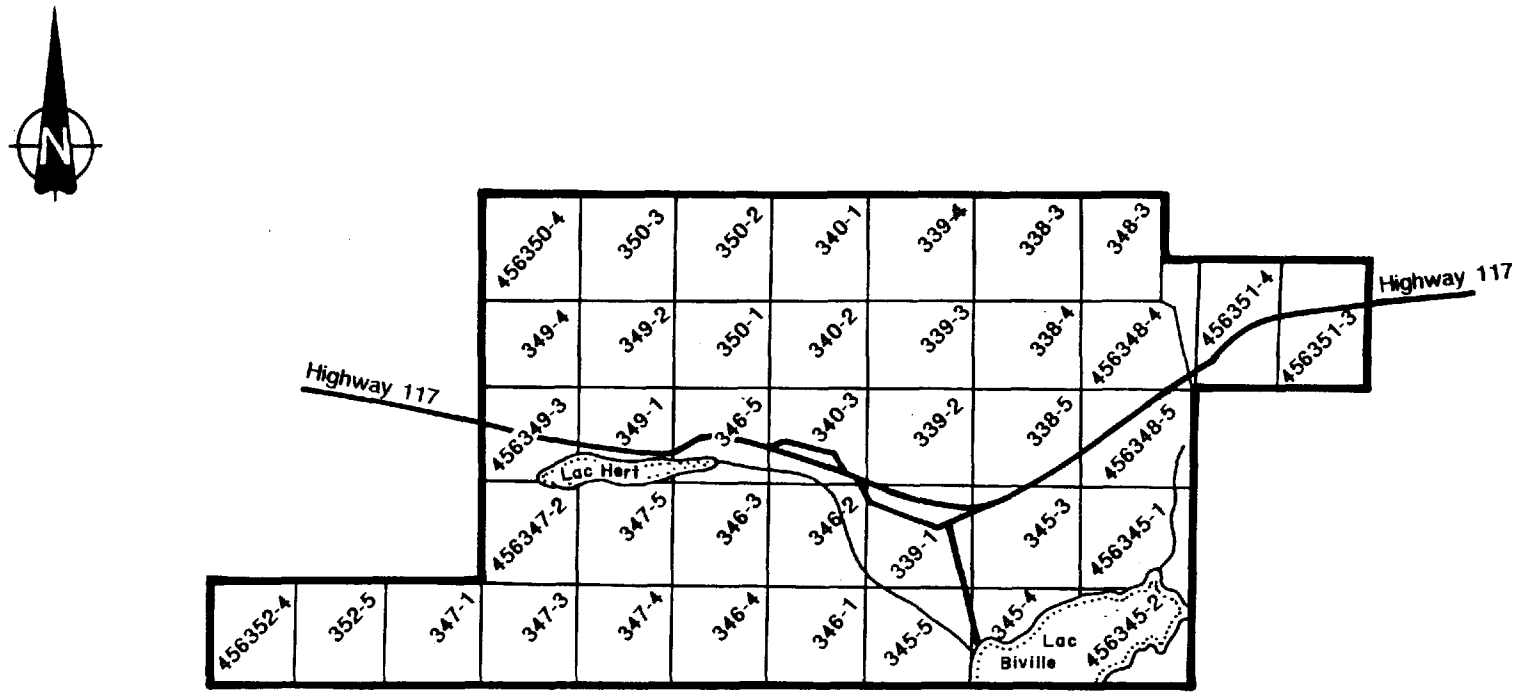
Pleistocene glaciation was the last major geologic event.

Vegetation consists mainly of birch, willow and alder in lower parts of the property while higher elevations are covered by spruce and tamarack.

2.0 HISTORY AND PREVIOUS WORK

In the early 1900's, the discovery of gold, copper and zinc deposits in the Noranda-Rouyn area, marked the beginning of mining activity. Several important gold and copper occurrences have been developed in the general area, especially along the Larder-Cadillac fault. The subject property is located just south of this major break, which can be followed from Kirkland Lake to the well known Val d'Or gold camp and is host to numerous present and past gold and copper producers. Several of these past gold and copper producers are located in the vicinity of the Premier Gold property.

The most significant deposit in the immediate vicinity of the property is the Kerr-Addison mine at Virginiatown, McGarry Township, Ontario. The deposit, which is roughly 7 kilometers west-southwest of the subject property, was discovered in 1911 and brought into production in 1938. As of 1988, a total of 37,943,899 tons of ore with an average grade of 0.27 oz Au/ton had been milled. Total gold



PREMIER GOLD RESOURCES INC.

PREMIER GOLD PROPERTY
DASSERAT TOWNSHIP

CLAIM MAP

IN-TEC RESOURCE MANAGEMENT LTD.	SCALE: 1:37 000	N.T.S.: 32D/3	FIGURE No: 3
	DWN. BY: H.V.	DATE: March 1988	
	CHKD. BY: D. Adamec	PROJECT No: 87QUE 013	FILE No:

production to date is 10,227,019 ounces with known reserves of 955,715 tons at 0.119 oz Au/ton. The mine is currently owned by Golden Shield Resources Ltd. (G. King, 1988).

The Wasamac I mine is located about 20 km northeast of the subject property and was in production between 1965-1971. Total production was 1,899,159 tonnes of ore at 5.07 g Au/t (0.147 oz/t) and 0.82 g Ag/t (0.023 oz/t). Estimated reserves are 398,237 tonnes at 5.05 g Au/t (0.147 oz/t).

The Wasamac II mine was in production for three years (1968-1971). This mine is located 14 km northeast of the Premier Gold property. Total production was 385,688 tonnes at 6.24 g Au/t (0.18 oz/t) and 0.55 g Ag/t (0.016 oz/t). This mine represents the No. 3 shaft of the old Francofur mine.

Exploitation from the Francofur mine lasted from 1935 to 1947. Total production from No. 1 and No. 2 shaft was 527400 tonnes at 6.6 g Au/t (0.195 oz gold/ton). Estimated reserves are in the order of 272,100 tonnes at 6.7 g Au/t (0.195 oz Au/ton).

Estimated reserves on the El Coco property, which is 10 km north of the subject property, are 1,021,282 tonnes at 9.59 g Au/t (0.279 oz Au/ton).

The Forbex property is located on the western shore of Lac Fortune, approximately 11 km northeast of the Premier Gold property. Recent diamond drilling on the property intersected a zone of 20.68 oz Au/t (width not available). No economic reserves have been proven to date.

The area which the Premier Gold property covers, saw some exploration work during 1955-56. While Highway 59 was being rerouted, a chalcopyrite fracture zone was dis-

covered. Diamond drilling was carried out indicating copper mineralization across appreciable widths. Insufficient funds at the time did not permit a continuation of the exploration program (Logan, 1962).

The property was dormant until the winter of 1987-88 when the current exploration program consisting of UTEM, VLF-EM, Magnetometer and limited geochemical survey was carried out on behalf of Premier Gold Resources Inc.

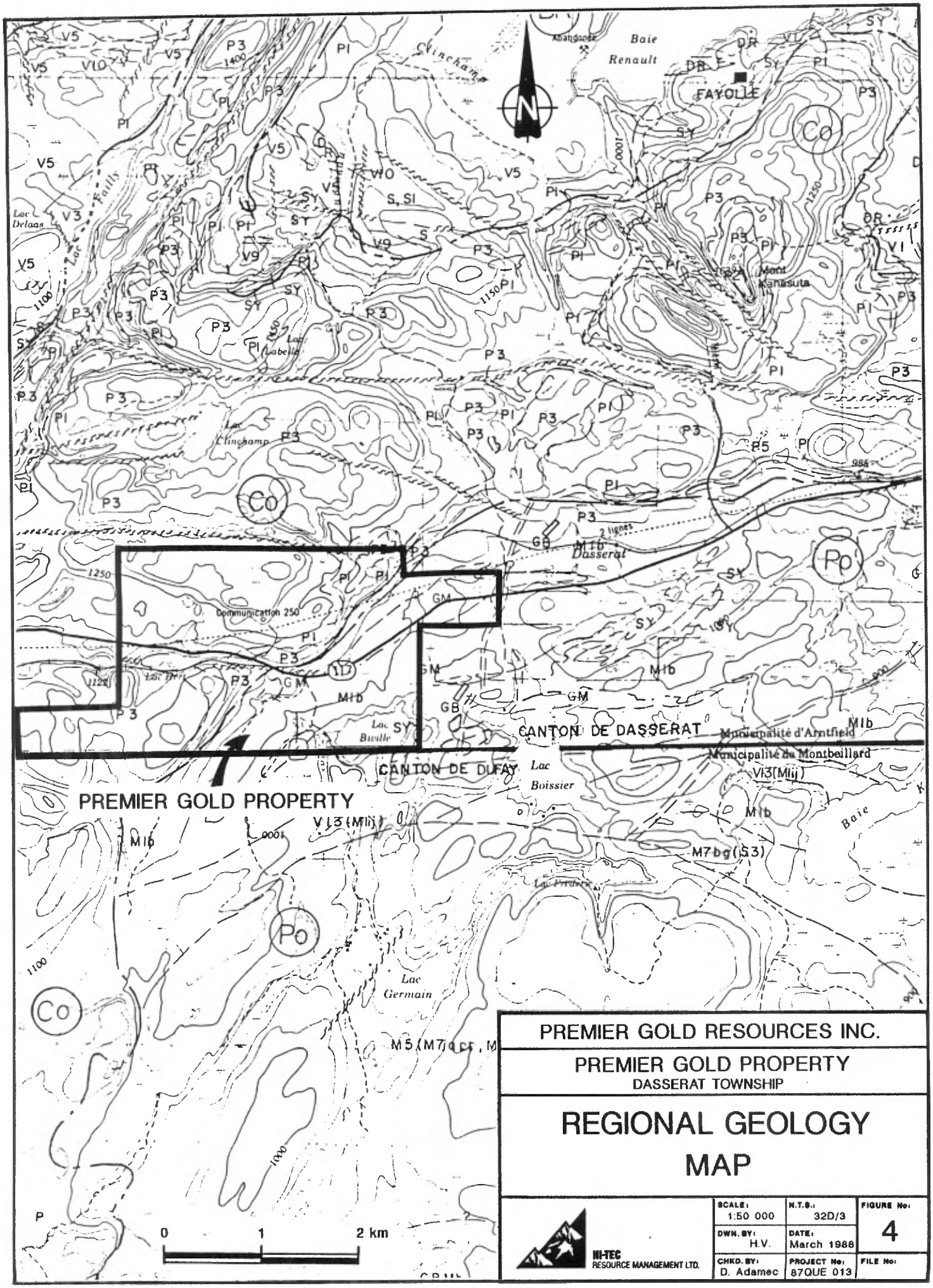
3.0 GEOLOGY

3.1 Regional Geology and Mineralization

The Abitibi greenstone belt is the largest and most extensively mineralized greenstone belt in the Canadian Shield and makes up an economically and geographically significant part of the Superior structural province. Rocks of the Abitibi and other greenstone belts are of Archean age and comprise volcanic and sedimentary units which are usually quite deformed and cut by numerous intrusives. The property area lies in the southern portion of this belt, near the Quebec-Ontario border, just south of the major Larder-Cadillac break.

The regional strike of the sedimentary and volcanic units is east-west with dips varying from moderate to very steep. The metamorphic grade of the area is relatively weak ranging from prehnite-pumpellyite facies to greenschist facies. Structurally the area is characterized by a polyphase tectonic history. Four schistosities have been recognized and are associated with a separate folding phase. The first two phases formed wide isoclinal folds showing east, southeast and south-west trending subvertical axial planes. A later folding phase formed the schistosities S3 and S4 representing a system of kinkbands.





PREMIER GOLD RESOURCES INC.

PREMIER GOLD PROPERTY

DASSERAT TOWNSHIP

REGIONAL GEOLOGY MAP

SCALE: 1:50 000	N.T.S.: 32D/3	FIGURE No: 4	
DWN. BY: H.V.	DATE: March 1988		
CHKD. BY: D. Adamec	PROJECT No: 87QUE 013	FILE No:	

HI-TEC RESOURCE MANAGEMENT LTD.

LEGEND

Proterozoic sedimentary rocks

P1 conglomerate
P3 greywacket

Metamorphic rocks

M1b biotite schist

Intrusive rocks

GM granite

fault

geological contact



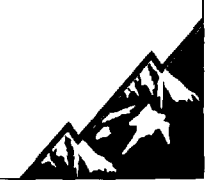
Regional volcano-sedimentary piles are divided into eight main lithostratigraphic units, which are from the base to the top, the volcanic groups of Malartic, Kinojevis and Blake River and the sedimentary formations of Caste, Kewagama, Pontiac, Cadillac, Temiscamingue and Duparquet. All of these rocks are cut by intrusives of various ages. The archean formations are discordantly overlain by sedimentary rocks of the Huronian age Cobalt Formation.

Since the early 20th century, Rouyn-Noranda has been known for its gold, copper and zinc mining potential. Copper and zinc deposits are generally massive sulphide deposits of exhalative origin. These deposits usually occur in the vicinity of synvolcanic faults and in progradation at the base of volcanic sequences. Generally, the main by-products of the zinc mines are cadmium and silver, whereas the by-products of the copper mines are selenium, tellurium and gold.

3.2 Property Geology and Mineralization

The Premier Gold property is located on the southern edge of the Abitibi greenstone belt. The geology of the claim group shows that the property is underlain by Proterozoic Cobalt Formation which forms a discordant contact with the Pontiac Formation. The south-dipping Larder-Cadillac break separates these units from the Archean volcanics of the Abitibi belt which lie below the Cobalt and Pontiac rocks on the subject property.

The greater part of the grid is underlain by a series of Pontiac sediments, consisting of fine grained biotite gneiss, quartzite and mica schist with some argillite.

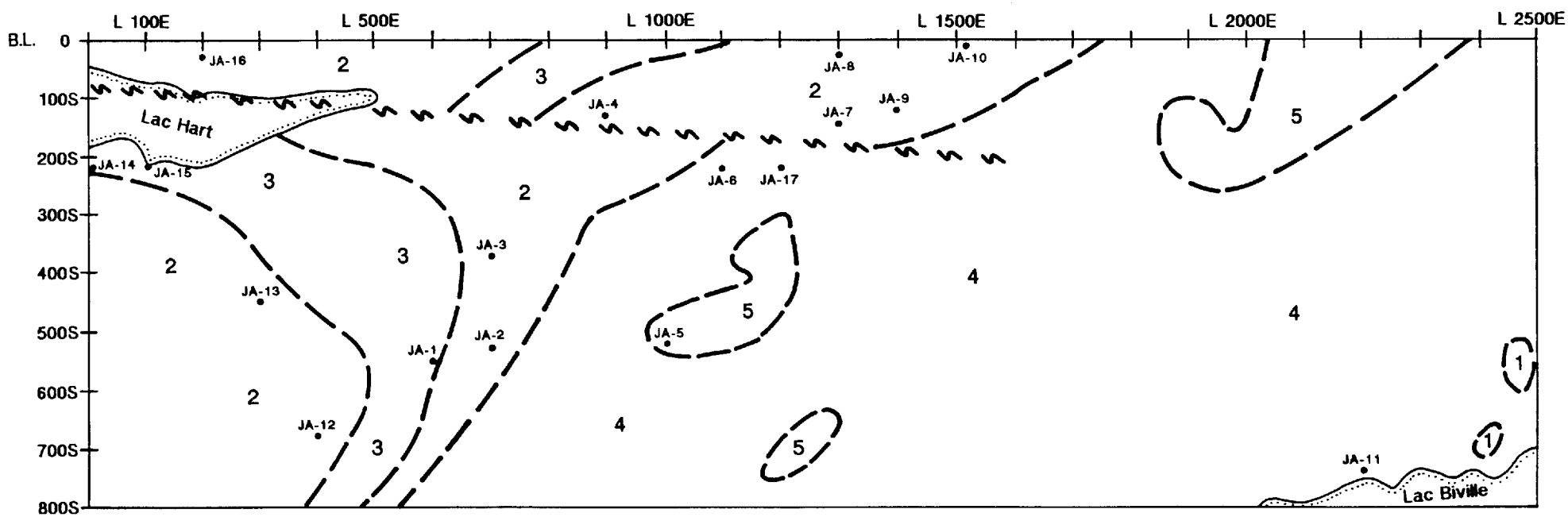


The southwest portion of the property is formed by poorly sorted conglomerates and argillaceous greywackes of the more recent Cobalt sediments. The contact between Pontiac and Cobalt sediments is an angular unconformity which trends 60-70^{o} and dips steeply south. Locally the contact is marked by a fairly high bluff.

Near the central and northwest part of the grid area, bodies of medium to coarse grey biotite granite occur. These intrusives of various age, shattered the adjacent rocks producing many fractures and openings and thus establishing favourable host areas for later mineralization. South of the baseline and almost parallel to the baseline is the well defined Horne Creek Fault. Along this fault, Noranda, Quemont and Kerr Addison mines are located. The claims are beleived to be underlain at depth by the same Archean volcanics that host the Quemont and Kerr Addison mines.

Mineralization occurs in the sedimentary area as filled fractures with associated replacement minerals. Several fracture zones show sulphide mineralization over small areas such as in the vicinity of stations L4E 675S, L3E 450S, L13E 25S, L14E 125S in dense greywacke beds or L22E 750S in fine grained biotite gneiss.

Cobalt sediments show considerable rusty staining with a small amount of disseminated pyrite and quartz stringers as observed at L0E 225S, L1E 200S and L2E 25S. Sphalerite and pyrrhotite also occur locally.



LEGEND

- 1 — ARGILLITE
- 2 — GRAYWACKE
- 3 — CONGLOMERATE
- 4 — PONTIAC SEDIMENTS
- 5 — GRANITE
- SUPPOSED GEOLOGICAL CONTACT
- SUPPOSED FAULT
- JA-6 — SAMPLE LOCATION

N

0 100 200 300 metres

PREMIER GOLD RESOURCES INC.

PREMIER GOLD PROPERTY
DASSERAT TOWNSHIP

GEOLOGY ON THE GRID and SAMPLE LOCATION MAP

SCALE: 1:10 000	N.T.S.: 32D/3	FIGURE No: 5	
DWN. BY: H.V.	DATE: March 1988		
CHKD. BY: D. Adamec	PROJECT No: 87QUE 013	FILE No:	

HI-TEC RESOURCE MANAGEMENT LTD.

4.0 GEOCHEMICAL SURVEY

Due to heavy snow conditions, thick overburden and limited outcrop, only minor rock sampling was performed on the grid. A total of 17 rock samples were collected. Sample locations are shown on Figure 5.

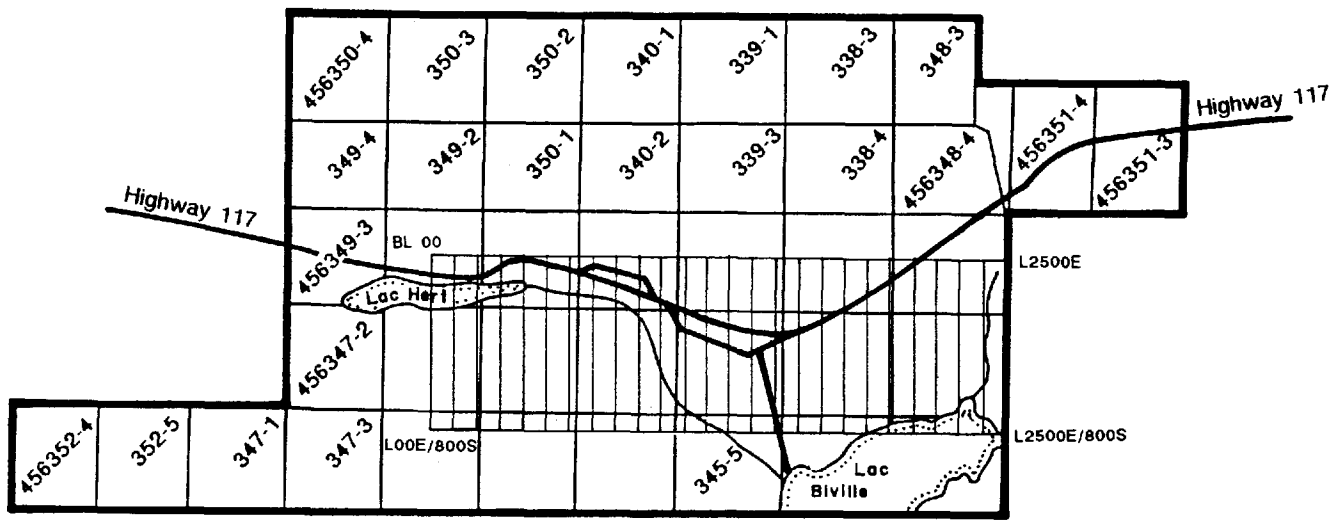
Samples were shipped to Min-En Laboratories Ltd. in Timmins, Ontario for 31 elements trace ICP and gold fire assay. Field and analytical data can be found in Appendix III.

Three of the 17 samples, contain anomalous amounts of gold. Samples JA-1, JA-2 and JA-12 contain from 0.11 grams to 0.20 grams Au/ton.

A total of 8 samples contained greater than 1.0 ppm silver. The assay values range from 0.4 ppm to 1.6 ppm. Copper values in rocks range from a low of 3 ppm to 127 ppm. Zinc values were slightly above background ranging from 33 ppm to 176 ppm. Background values of arsenic and lead were recorded. Geochemical preparation and analytical procedure is in Appendix II.

5.0 GEOPHYSICAL SURVEYS

Detailed ground VLF-EM, magnetometer and UTEM surveys were performed over the established grid to provide detailed information for the identification and location of targets for drilling. The grid consists of a 2.5 km long west to east oriented baseline, which is parallel to the Horne Creek Fault and perpendicular to north-south oriented, 800 m long lines. The lines were surveyed 100 m apart and chained with a 25 meter station interval (Figure 6). The baseline and lines were cleared of bush for ease of movement.



0 1 2 km

PREMIER GOLD RESOURCES INC.

PREMIER GOLD PROPERTY
DASSERAT TOWNSHIP

GRID LOCATION MAP

IN-TEC
RESOURCE MANAGEMENT LTD.

SCALE: 1:37 000	N.T.S.: 32D/3	FIGURE No: 6	
DWN. BY: H.V.	DATE: March 1988		
CHKD. BY: D. Adamec	PROJECT No: 87QUE 013	FILE No:	

A total of 25.8 kilometers of lines were cut and chained on the Premier Gold property. This included 20.0 kilometers of survey lines and 5.8 kilometers of tie lines. There were 25 cross lines of 800 meters each. These cross lines were separated from each other by a distance of 100 meters with station intervals of 25.0 meters.

The Magnetic and VLF-EM surveys were run using an EDA omni-plus VLF-EM magnetometer (serial number 218035) as the field unit. Diurnal variations and magnetic drift were removed using an EDA omni-IV magnetometer as the base station. Both systems are micro-processor based. The data were stored, corrected, filtered, contoured, and profiled using a Toshiba T1100 computer. Instrument specifications can be found in Appendix V. The UTEM survey done by Lamontagne Geophysics Ltd. and is described in detail in Appendix IV.

5.1 VLF Survey Interpretation

The VLF portion of the survey was carried out using three VLF transmitting stations: Cutler, Maine (24.0 khz); Annapolis, Maryland (21.4 khz); and Jim Creek, Washington (24.8 khz). Cutler and Jim Creek were used for profiling as they were most closely aligned with the grid. The VLF field strength, in-phase vertical component and quadrature components were measured and recorded concurrently for all three stations.

Due to the complexity of the in-phase and quadrature profile, the VLF-EM vertical in-phase component has been Fraser Filtered. This filtering shows several strong to weak conductors (Figures 8a and 8b). The first conductor (#1) appears at station 1+00S on line 5+00E. Part of this zone is due to the presence of railway tracks which overlie

a fault. The presence of the tracks along the fault masks the true nature of the conductor. However, the fault can be traced consistently 1 km from line 5+00E to line 14+00E despite the presence of the tracks. At this point it pinches out.

A second conductor (#2) appears at line 16+00E, station 3+00S directly in line of strike with the first conductor. It strikes 900 m to line 25+00E where it disappears off the edge of the grid. Because of the alignment of these two conductors, they are no doubt related to one another. The unusual shape of the second conductor is due to a granitic intrusion. The configuration of the second VLF-EM anomaly corresponds to the contact between the host rock and a granitic intrusion.

The third conductor (#3) is located on the southeast part of the grid. This conductor strikes north-northeast 400 meters from line 7+00E, station 8+00S to line 10+00E, station 6+50S. The last conductor (#4) strikes north 300 meters from line 12+00E station 4+00S to line 15+00E. For details see Figures 8a and 8b.

5.2 Magnetometer Survey Interpretation

The total magnetic field and vertical gradient were both measured and stored. The magnetic readings ranged from 57,000 gammas to 60,500 gammas with a mean value of 58,160 gammas. A magnetic anomaly of 58,200 gammas parallels the southern side of the second conductor. Also as would be expected, there is a high magnetic anomaly following the first conductive zone. Conductive zones with coincident magnetic highs are characteristic of volcanogenic massive sulfide deposits.

Throughout the grid there were several point anomalies, but the general nature of the magnetic field with the exception of the two highs was flat with very little variation (Figure 9). This is consistent with the VLF-EM output which was also fairly flat with the exception of the described conductors.

5.3 UTEM Survey Interpretation

A UTEM survey was carried out by Lamontagne Geophysics Ltd. on the Premier Gold property. UTEM is a deep-searching EM system developed by the University of Toronto with assistance from Cominco Ltd. The components which can be measured by the UTEM system are outlined below.

1) The magnetic (H) field measurements are made using the high sensitivity coil which is mounted on an articulated tripod.

2) The electric (E) field measurements are made with a simple brass electrode dipole (25 m separation).

3) The conventional UTEM coordinate system is oriented so that +vez is up, X parallel and Y perpendicular to survey lines.

4) The vertical magnetic field (Hz) is the most sensitive to the presence of a buried conductor and is always measured. For most conductor orientations, the anomaly will be a cross over.

5) One or both of the horizontal components of the magnetic field (Hx and Hy) may be read as follow-up to the Hz survey if anomaly is identified in the Hz data. In some deep exploration situations Hx is routinely read with Hz.

6) The electric field (Ex and Ey) data may be used to map contacts, shear zones and disseminated sulphide zones.

On the Premier Gold property a total of 20.8 km of one component (Hz) UTEM data were collected at 25 meter intervals from two transmitter loops. At each station, a minimum of 1,000 cycles of the wave form were stacked. The transmitter loops were positioned to the north of the grid.

Three main conductors were identified in the data from the property. They have been labelled as conductor A, B and C. The conductors are coincident with VLF-EM conductors (Figure 10).

The results are described in detail in the full report on the UTEM Survey (Appendix IV).

6.0 CONCLUSIONS AND RECOMMENDATIONS

A review of the known geology, rock geochemistry and geophysics have shown the presence of precious/base metal showings on the Premier Gold property.

Sulphide mineralization occurs in the sedimentary area as filled fractures with associated replacement in dense greywacke beds or in biotite gneiss. Cobalt sediments show considerable rusty staining with a small amount of disseminated pyrite and quartz stringers. Sphalerite and pyrrhotite also occur locally on the property.

Limited rock sampling on the subject property returned values up to 0.20 g Au/t with accessory silver and minor zinc.



The geophysical program, consisting of VLF-EM, magnetometer and UTEM survey have delineated several strong to weak conductive zones which are generally east-west striking. The strongest conductor is located between L500E and L2500E (conductor #1 and #2). This anomaly is associated with the Horne Creek Fault, which is believed to be part of the Larder-Cadillac shear zone. In addition, two more VLF-EM conductors were located on the south portion of the grid. They strike approximately 300 m respectively 400 m in length.

The conductors delineated by VLF-EM are coincident with UTEM conductors.

The magnetometer survey has delineated a high magnetic anomaly following the first conductive zone.

Favourable geophysical, geochemical anomalies and geology for precious metals and/or base metals indicate further work is warranted.

The property location allows for easy accessibility and year round work.

The writer recommends a follow-up program consisting of preliminary diamond drilling to test the source and nature of geophysical and geochemical anomalies delineated by the 1988 exploration program. The potential of the unsurveyed portion of the property remains unknown and should be examined by geochemical sampling, geophysical survey and follow-up trenching and drilling if required.

Respectfully submitted,

HI-TEC RESOURCE MANAGEMENT LTD.

J. Duro Adamec, Ph.D.

March, 1988

7.0 REFERENCES

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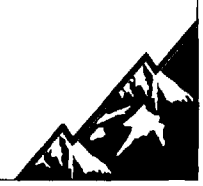
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APPENDIX I

Statement of Qualifications



STATEMENT OF QUALIFICATIONS

I, J. DURO ADAMEC of 1159 Premier Street, North Vancouver, B.C. hereby certify that:

1. I graduated in geology from Commenius University of Bratislava, Czechoslovakia (1978) and I hold a Ph.D. in geology (1982) from the same University.

2. I have been practising my profession for over 8 years.

3. I am presently employed as a geologist with Hi-Tec Resource Management Ltd. of 1500 - 609 Granville St., Vancouver, B.C.

4. The information contained in this report was obtained from fieldwork conducted by myself and others in 1988.

J. Duro Adamec, Ph.D.

March 31, 1988

APPENDIX II

Geochemical Preparation and Analytical Procedures



PHONE: (604) 980-5814 or 988-4524

TELEX: 04-352828

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

FIRE GOLD GEOCHEMICAL ANALYSIS BY MIN-EN LABORATORIES LTD.

Geochemical samples for Fire Gold processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

A suitable sample weight 15.00 or 30.00 grams are fire assay preconcentrated.

After pretreatments the samples are digested with Aqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Ketone.

With a set of suitable standard solution gold is analysed by Atomic Absorption instruments. The obtained detection limit is 1 ppb.

PHONE: (604) 980-5814 or 988-4524

TELEX: 04-352828

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

Analytical Procedure Report for Assessment Work

31 Element ICP

Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, U, V, Zn, Ga, Sn, W, Cr

Samples are processed by Min-En Laboratories Ltd., at 705 West 15th Street, North Vancouver, employing the following procedures.

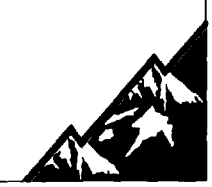
After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized by ceramic plated pulverizer or ring mill pulverizer.

1.0 gram of the sample is digested for 4 hours with an aqua regia $HClO_4$ mixture.

After cooling samples are diluted to standard volume. The solutions are analysed by computer operated Jarrall Ash 9000 ICAP or Jobin Yvon 70 Type II Inductively Coupled Plasma Spectrometers. Reports are formatted and printed using a dot-matrix printer.

APPENDIX III

Field and Analytical Data for Rock Samples



FIELD AND ANALYTICAL DATA FOR ROCK SAMPLES

87Q013JA1	L6E 550S Grey, argillaceous greywacke.
87Q013JA2	L7E 525S Grey greywacke with polymictic pebble ϕ 2 cm.
87Q013JA3	L7E 375S Greenish greywacke with polymictic clasts max ϕ 2 cm.
87Q013JA4	L9E 125S - 10 m 90^{o} Grey greywacke with metavolcanic dykes.
87Q013JA5	L10E 525S Medium grained grey biotite granite.
87Q013JA6	L11E 250S Greywacke with quartz veinlet (1 cm wide).
87Q013JA7	L13E 150S Argillaceous greywacke.
87Q013JA8	L13E 25S Grey greywacke with disseminated chalcopyrite.
87Q013JA9	L14E 125S Argillaceous greywacke with disseminated mineralization.
87Q013JA10	L15E 00S Buff argillaceous grewyacke.
87Q013JA11	22E 750S Fine grained biotite gneiss with chalcopyrite pyrrhotite <5% slightly magnetic.
87Q013JA12	L4E 675S Grey greywacke with minor clasts, mineralization <2%
87Q013JA13	L3E 450S Greywacke associated with metavolcanic clasts, ϕ 2-5 cm disseminated pyrite.
87Q013JA14	L0E 225S Greywacke with considerably rusty staining and quartz stringers 0.3 cm.
87Q013JA15	L1E 200S Greywacke with strong iron staining.



87Q013JA16	L2E 025S Greywacke with rusty staining.
87Q013JA17	L12E 225S Fine grained schist with quartz swells.

MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE:(604)980-5814 OR (604)988-4524 TELEX:VIA USA 7601067 UC

Certificate of ASSAY

Company:HI TEC RESOURCE
Project:87 QUE 013 PREMIER
Attention:P.SORBARA/R.ARNOLD

File:82-144/P1
Date:JAN 29/88
Type:ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON
JA 1	.20	0.006
JA 2	.15	0.004
JA 3	.01	0.001
JA 4	.01	0.001
JA 5	.02	0.001
JA 6	.01	0.001
JA 7	.04	0.001
JA 8	.01	0.001
JA 9	.01	0.001
JA 10	.03	0.001
JA 11	.06	0.002
JA 12	.11	0.003
JA 13	.07	0.002
JA 14	.02	0.001
JA 15	.03	0.001
JA 16	.03	0.001
JA 17	.01	0.001

Certified by

MIN-EN LABORATORIES LTD.

COMPANY: HI TEC RESOURCE — MIN-EN LABS ICP REPORT — (ACT:F31) PAGE 1 OF 3

PROJECT NO: 87 QUE 013 PREMIER — 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 — FILE NO: 82-144

ATTENTION: P.SORBARA/R.ARNOLD — (604)980-5814 OR (604)988-4524 — * TYPE ROCK GEOCHEM * — DATE:JAN 29, 1988

(VALUES IN PPM)	AG	AL	AS	B	BA	BE	BI	CA	CD	CO	CU	FE	K
JA 1	1.6	20540	6	33	26	1.3	14	6260	2.3	14	7	36510	600
JA 2	.8	18370	7	26	146	1.0	10	2700	1.8	11	18	30980	5290
JA 3	1.5	21920	6	27	34	1.3	12	13120	1.2	17	127	39190	430
JA 4	.6	13670	3	16	76	.7	9	7510	.2	6	9	18300	2150
JA 5	.7	7150	3	9	75	.4	6	5470	.7	4	4	9420	1500
JA 6	1.2	27560	19	37	34	1.5	15	11470	.7	16	44	44070	1130
JA 7	.8	21610	15	29	100	1.2	13	5120	.9	13	12	35890	2670
JA 8	1.3	23070	6	32	26	1.4	14	9550	1.9	15	46	38610	700
JA 9	1.1	17430	12	24	21	1.1	12	8330	.8	13	36	30860	490
JA 10	1.5	17050	14	25	21	1.0	12	8700	1.1	12	32	29860	550
JA 11	.4	15310	14	22	49	1.0	8	2760	1.6	9	51	27620	1440
JA 12	1.3	17690	7	23	20	1.1	12	8280	1.4	13	30	32250	450
JA 13	1.2	19710	8	23	26	1.1	12	10690	.2	13	27	32180	650
JA 14	.4	20230	9	23	27	1.3	8	3010	.4	11	6	33920	700
JA 15	.7	17690	14	22	22	1.2	12	3260	.7	11	11	31920	570
JA 16	.4	14450	12	14	14	.9	9	2160	1.4	9	3	25490	220
JA 17	.4	10700	10	12	20	.6	7	2410	1.3	4	31	18090	600

(VALUES IN PPM)	LI	MG	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V
JA 1	27	23040	562	2	450	41	1270	28	2	54	1	1	77.2
JA 2	35	17040	351	2	490	31	1390	29	1	8	1	1	52.3
JA 3	27	23150	829	2	410	102	1190	38	1	70	1	1	76.7
JA 4	1	6710	308	1	730	4	880	9	3	79	1	1	24.5
JA 5	5	4870	132	1	580	1	1170	13	2	150	1	1	15.5
JA 6	31	22390	630	1	570	49	1650	34	6	148	1	1	84.6
JA 7	29	21260	568	2	490	39	1310	34	1	47	1	1	75.3
JA 8	29	19240	557	2	440	37	1560	30	1	113	1	1	71.4
JA 9	17	15120	439	1	460	36	1300	27	1	89	1	1	62.5
JA 10	17	13870	430	1	440	30	1280	27	2	80	1	1	58.2
JA 11	28	17340	275	5	350	39	1640	70	2	6	1	1	49.4
JA 12	17	15430	470	1	390	29	1400	20	1	90	1	1	64.3
JA 13	16	16950	529	1	430	34	1160	27	1	90	1	1	69.8
JA 14	28	22250	391	1	440	34	1350	39	5	3	1	1	59.7
JA 15	18	18580	404	2	350	30	1220	23	1	13	1	1	60.0
JA 16	15	16720	255	2	570	26	1260	22	1	3	1	1	52.8
JA 17	12	11380	226	2	440	11	1760	45	2	9	1	1	37.4

PROJECT NO: 87 QUE 013 PREMIER | 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE NO: 82-144
ATTENTION: P.SORBARA/R.ARNOLD | (604)980-5814 OR (604)988-4524 | * TYPE ROCK GEOCHEM * | DATE:JAN 29, 1988

(VALUES IN PPM)	ZN	GA	SN	W	CR
JA 1	67	1	2	3	164
JA 2	65	1	1	2	160
JA 3	89	1	1	3	148
JA 4	43	1	1	2	174
JA 5	48	1	1	1	106
JA 6	101	1	1	4	145
JA 7	71	1	1	3	181
JA 8	72	1	2	3	129
JA 9	58	1	1	2	149
JA 10	54	1	1	2	138
JA 11	176	1	1	2	171
JA 12	62	1	1	3	144
JA 13	58	1	2	2	155
JA 14	49	1	1	3	137
JA 15	53	1	1	2	127
JA 16	33	1	1	2	132
JA 17	38	1	1	2	110

APPENDIX IV

UTEM Survey



LOGISTICS AND INTERPRETATION REPORT
ON A UTEM SURVEY
AT
THE PREMIER GOLD GRID, DASSERAT TOWNSHIP, QUEBEC
FOR
HI-TEC RESOURCE MANGAGEMENT LTD.

Patrick McGowan
Feb, 1988

INTRODUCTION

A UTEM 3 survey was carried out by Lamontagne Geophysics Ltd on behalf of HI-TEC in December of 1987. The survey area was comprised of a small grid (20 line km) located on Highway 117, 30 kilometres west of Rouyn-Noranda, just inside the Quebec border with Ontario. During the survey the Lamontagne crew was based at the Motel Henri on the western outskirts of Rouyn.

The purpose of the survey was to search for any conductors within an E-W trending zone of prospective geology lying south of the Highway.

FIELD WORK

The Lamontagne crew mobilized to Rouyn by company vehicle on December 7. The crew was comprised of geophysicists/operators Patrick McGowan and Brent Felix, and field assistant Brian Peterson. Yves Lamontagne replaced Patrick McGowan after December 12. The equipment consisted of one UTEM receiver, coil/tripod and transmitter and a field computer.

Weather during the survey period was generally poor; wet cold days were typical. Snow conditions were adequate, but ice conditions on the lakes was not good. Sferic noise was prevalent throughout the survey period.

A total of 20.8 km of one component (Hz) UTEM data were collected at 25 metre intervals from two transmitter loops. At each station, a minimum of 1,000 cycles of the waveform were stacked. This was increased in the vicinity of the powerlines and near the ends of the lines to assure sufficient precision.

The crew set up the base of operations at the motel room during the evening oof December 7. The survey began with loop laying on the morning of December 8 and continued until the evening of December 15. A total of 7 1/2 production and 1/2 standby days were charged. The standby day was charged on the first day. Upon completion of the survey, the crew carried out another survey in the area before demobilizing on December 22. The survey production is summarized in the table below.

PRODUCTION DIARY

DATE	LOOP/LINE/STATIONS	COMMENTS
7/12	(evening)	P.McGowan, B. Felix and B. Peterson arrive at Rouyn from Toronto by company vehicle.
8/12	Loop 1 11E/025S-250S	Loop 1 was laid during the morning. Weather was very poor. Little time for reading during after noon. total: 250 m charges: 1/2 P, 1/2 S
9/12	Loop 1 9E/025S-800S 11E/250S-800S 12E/025S-800S	Weather better. B.Peterson laying loop 2. P.McGowan and B.Felix reading. total: 2150 m charges: 1 P
10/12	Loop 1 7E/025S-800S 8E/025S-800S 10E/025S-800S	B.Peterson continues laying loop 2. P.McGowan and B.Felix reading. total: 2400 m charges: 1 P
11/12	Loop 1 1E/025S-800S 5E/025S-800S 6E/025S-800S	P.McGowan stays in motel for day. B.Felix and B.Peterson reading. total: 2400 m charges: 1 P
12/12	Loop 1 0E/025S-800S 2E/025S-800S 3E/025S-800S 4E/025S-800S	B.Felix and B.Peterson reading. Y.Lamontagne arrives in evening. P.McGowan stays in motel. total: 3200 m charges: 1 P
13/12	Loop 1 10E/525S-800S 11E/650S-750S Loop2 24E/500S-800S 25E/025S-800S	B.Felix and B.Peterson reading. Read detail on lines 10E and 11E. P.McGowan and Y.Lamontagne stay in town for day. total: 1475 m charges: 1 P
14/12	Loop 2 19E/025S-800S 20E/025S-800S 21E/025S-800S 22E/025S-800S 23E/025S-800S	B.Felix and Y.Lamontagne reading. B.Peterson picking up loop 1. P.McGowan leaves.

24E/025S-500S total: 4500 m charges: 1 P

production diary cont'd.....

15/12	Loop 2	B.Felix and Y.Lamontagne reading.
	13E/025S-800S	B.Peterson working on another
	14E/025S-800S	project.
	15E/025S-800S	
	16E/025S-800S	
	17E/025S-800S	
	18E/025S-800S	total: 4800 m charges: 1 P
16/12		crew working on another project.

Total Production for Job: 21.175 km
Charges: 7 1/2 production, 1/2 standby days

SURVEY DESIGN

The map provided with this report shows the location of the two transmitter loops used to survey the grid. The loops were placed to survey the grid as efficiently as possible while assuring good coupling between target and loop. The targets were assumed to be steeply dipping, and since access was easiest north of the grid, the transmitter loops were positioned there.

DATA PRESENTATION

Copies of the line profiles are presented in Appendix A. The data were reduced in 'channel 1 normalized' form whereby a different reduction formula is used for channel 1 and the other channels.

The channel 1 data are reduced before plotting according to the formula:

$$R_{1c} = (Ch_{1c} - {}_{H}P_{c}) / H^{P} \times 100\%$$

The other channels are reduced using the slightly different formula:

$$R_{nc} = (Ch_{nc} - Ch_{1}c) / H^{P} \times 100\%$$

In these expressions, Ch_{nc} is the raw component c value for channel n, HP is the computed primary field, and the index c indicates any field component.

The standard "continuously normalized format was used in plotting the data. In this standard format Hp in the formulae above is the total primary field at each respective survey point.

The data are plotted on three axes. On the bottom axis channel 1 (latest time) alone is plotted, normalised to the calculated primary field. The intermediate to late time channels (Ch5 - Ch2) are plotted on the middle axis. The early time channels (Ch10 - Ch6) as well as a repeat of channel 5 for comparison are plotted at a reduced scale. The y axis on each plot represents the difference from 100%.

INTERPRETATION

Three main conductors were identified in the data from the property. They have been labelled for the sake of simplicity as conductor A, B, and C in Figure 1. Two of these conductors are locally conductive zones lying along what appear to be contacts. Where these conductive trends are close to the highway, railroad and powerlines, the interpretation of subtle characteristics was found to be difficult due to the superimposed response of these cultural features. This has made it difficult to estimate a dip for the conductors, but since no obvious asymmetry in the reponses was observed, it is safe to assume that each dips steeply (>80°). Again, because of the distortion of the responses, it was not possible to calculate the depth extent of the conductors, but the shape of the reponses suggests that the depth extent is not very great for any of them, probably less than or on the order of the strike length.

Conductor A

This conductor forms a more conductive zone as part of a conductive trend which extends from about line 7E, where it is barely visible as an inflection at the south end of the profile, to about line 13E. The response gets progressively better from its west end to line 10E. East of line 10E the response falls off rapidly to the point where the response is almost imperceptible on lines 12E and 13E. The character of the reponse of the trend suggests that it is a (gradational) contact between a conductive region to the south and a more resistive region to the north.

The main conductor is probably of very short strike length, extending only about 50 metres east of and 80 metres west of line 10E. The presence of a "top anomaly" indicates that the body has definable width; forming a block between stations 6+80S and 7+40S. Quantitative analysis of the profile from line 10E reveals that the top of the conductor lines at a depth of 70 +/- 10 metres. The decay curve (Figure 2a) gives a time constant of 1.6 milliseconds, which using a formula for a thick body, coreesponds to a conductance (conductivity thickness) of 3.5 siemens. There is a slight asymmetry to the crossover, which suggests a steep southerly dip (80°S?).

Conductor B

This conductor appears very suddenly on line 13E and continues eastward until only line 15E where it once again disappears abruptly. The response is greatly distorted by the presence of the powerlines and railway at about 2+50S. Nevertheless, the decay curve for line line 14E (best anomaly) was plotted roughly (Figure 2b), and the conductance was estimated to be 2.7 siemens, which is greater than that calculated for conductor

than A. Since there appears to be no top anomaly (and therefore no thickness) and since the same strike length was used in the calculation of the conductance, this target is composed of more conductive material than conductor A. On line 14E, the conductor is located below station 3+75S at a depth of 60 +/- 20 metres. Due to the distortion of the response shape by the cultural conductors, it is not possible to estimate the dip.

Conductor C

This conductor is once again part of a conductive trend. This trend may be a continuation of the trend upon which conductor B lies. Unlike conductive trend A, this one does not appear to be a contact, although a contact-like response doe seem to join up with it at about line 24E (conductor C'). The anomaly is best east of this intersection, on lines 24E and 25E. The decay curves for these two lines have been plotted (Figure 2c and d) and the conductances calculated to be 1.1 siemens. Although this is less than that calculated for both conductors A and B, the strike length of this conductor is greater than either and its thickness less than that of conductor A. This would make it probably about as conductive a zone as conductor B. The depth to top below line 24E is estimated to be about 100 +/- 10 metres.

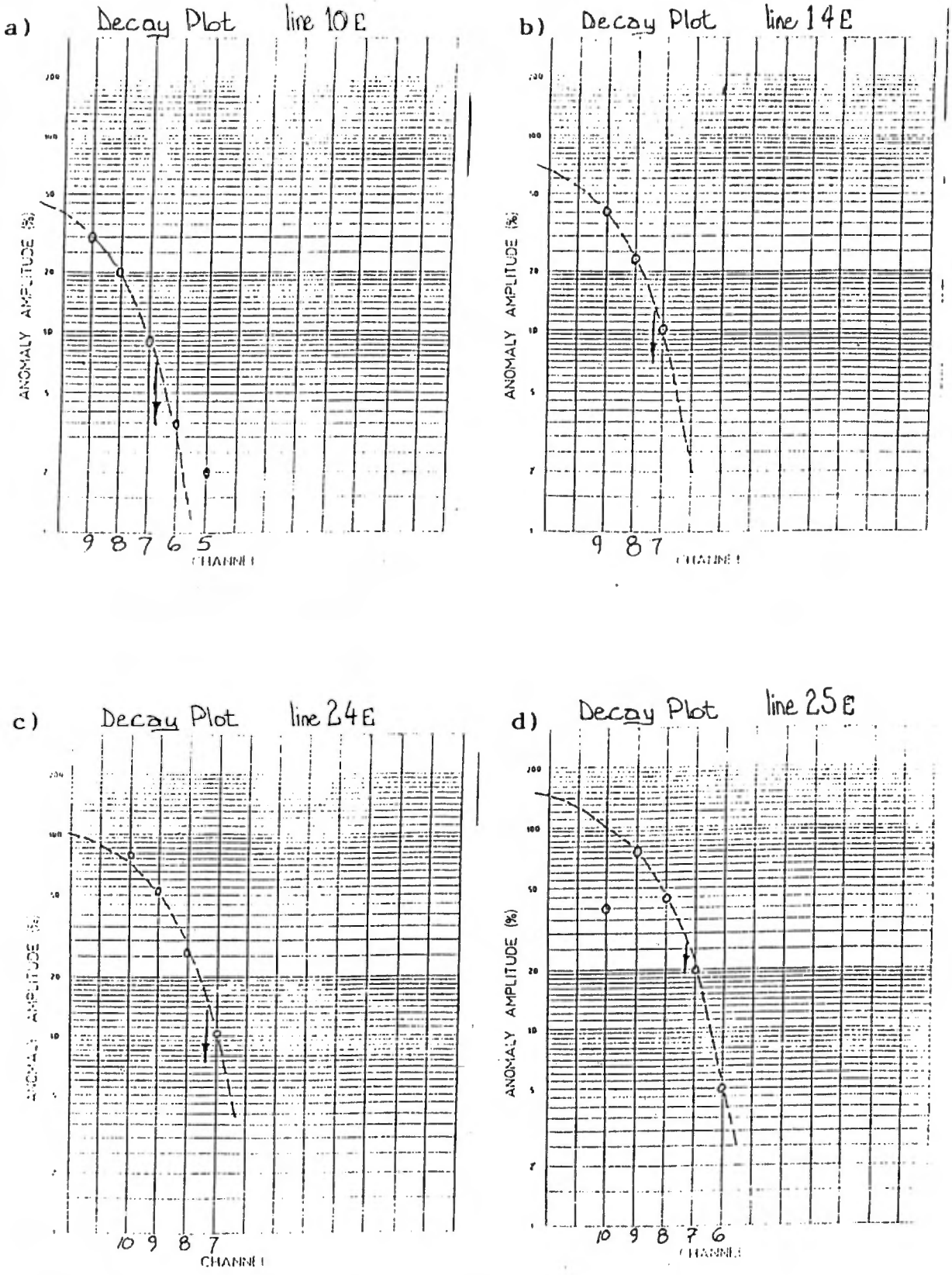
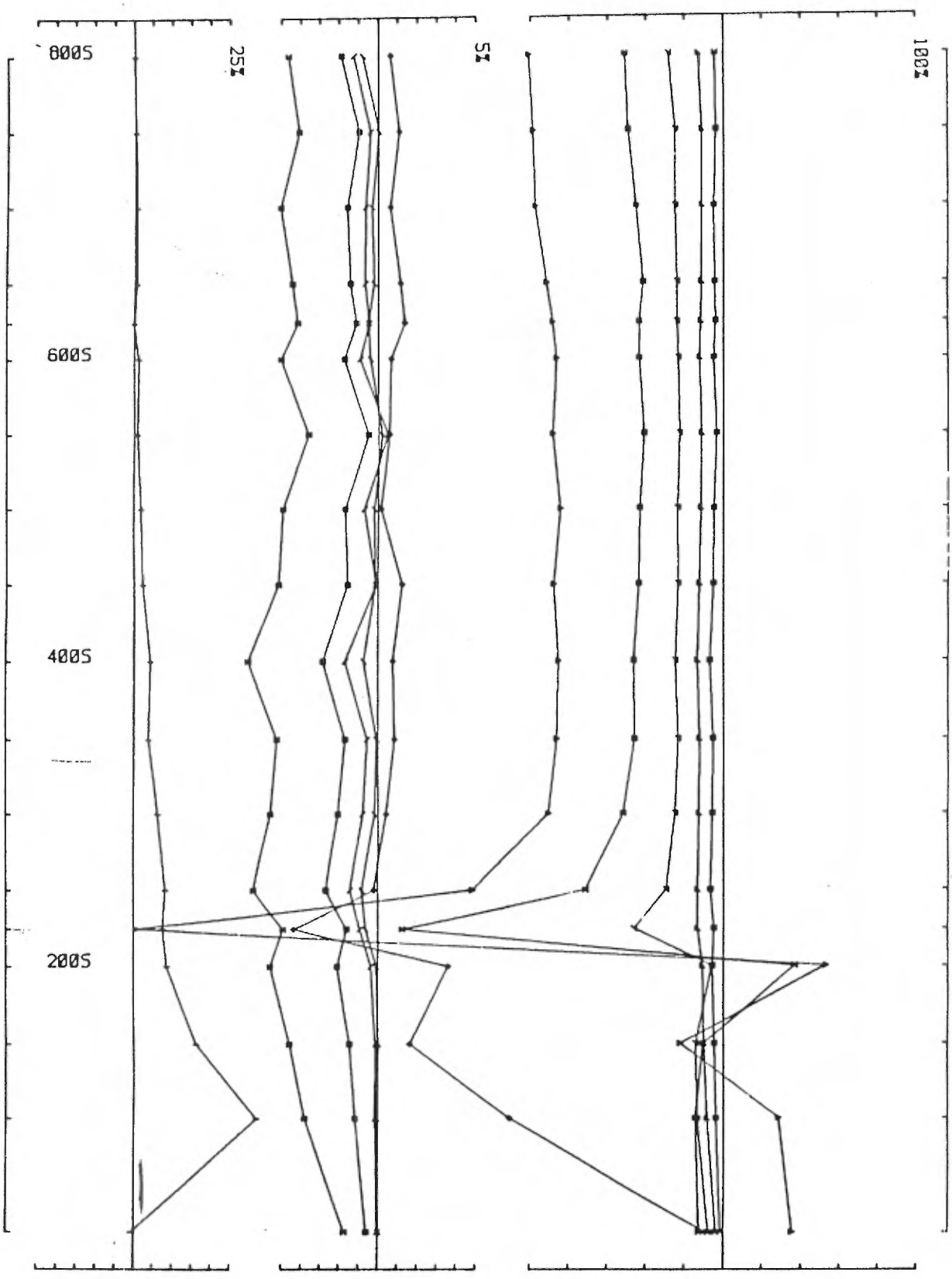


Figure 2: Decay curves for lines 10E (a), 14E (b), 24E(c), and 25E (d). Circles represent plotted amplitudes and dashed curve represents the best fitting decay curve. Arrow is estimate ot decay constant.

APPENDIX A

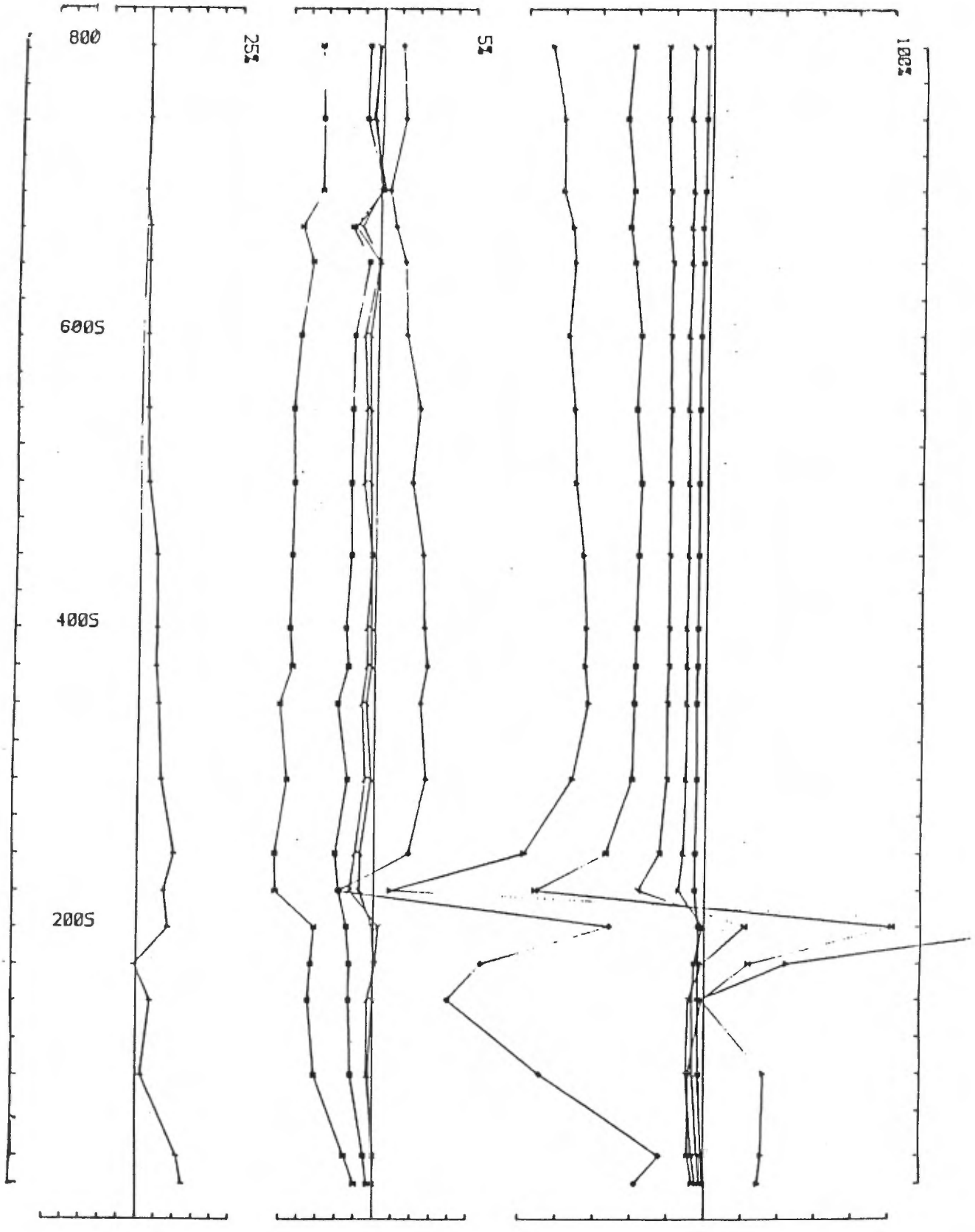
UTEM PROFILES



UTEM SURVEY at PREMIER/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by PDM BEF LAMONTAGNE job 8714 base freq (hz) 30.974 Dec 1987

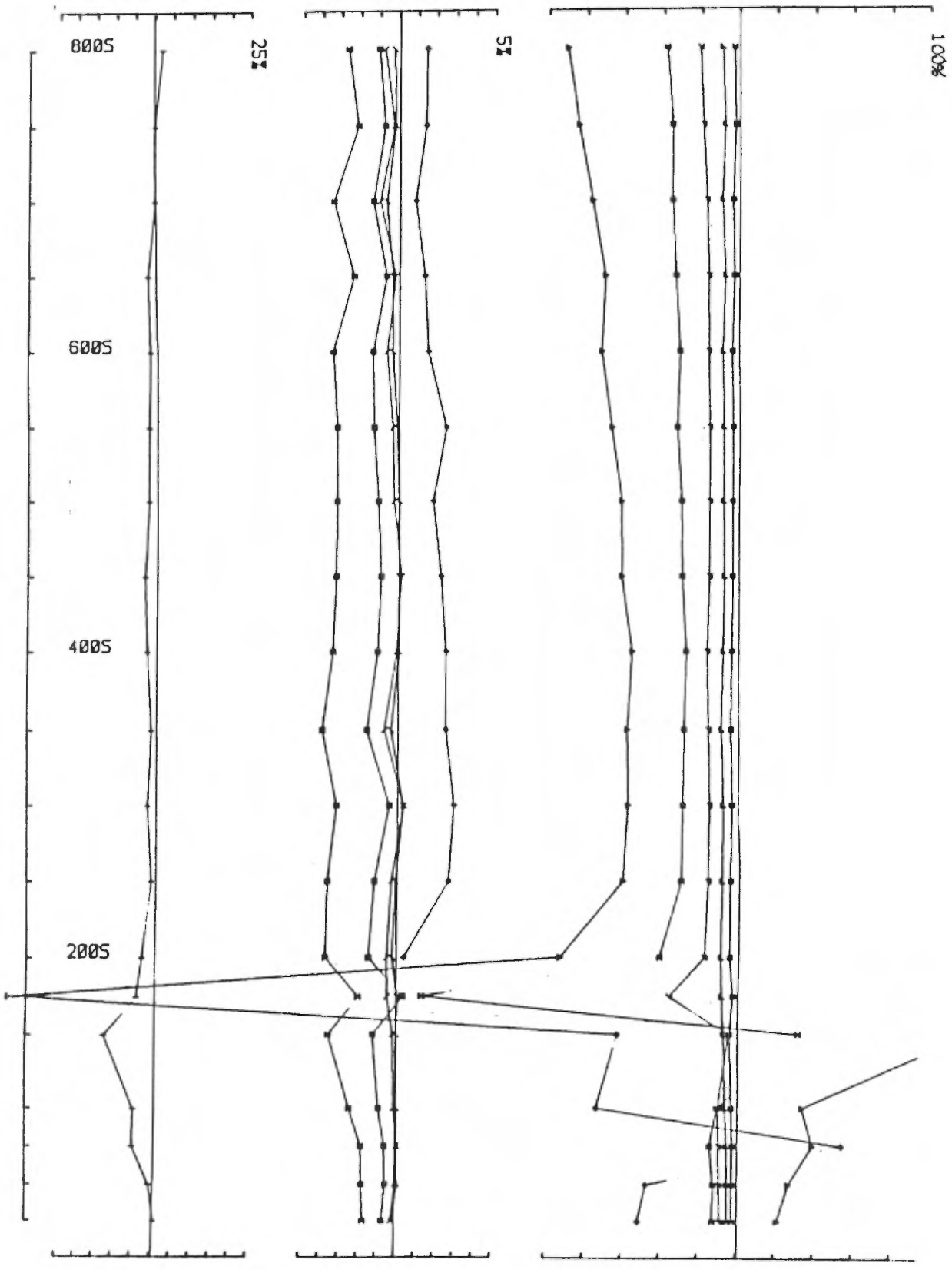
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UTEM SURVEY at PREMIER/DASSERAT TVP. for HI-TEC RESOURCE MGMT.

conducted by PDM BEF LAMONTAGNE job 8714 base freq (hz) 30.974 Dec 1987

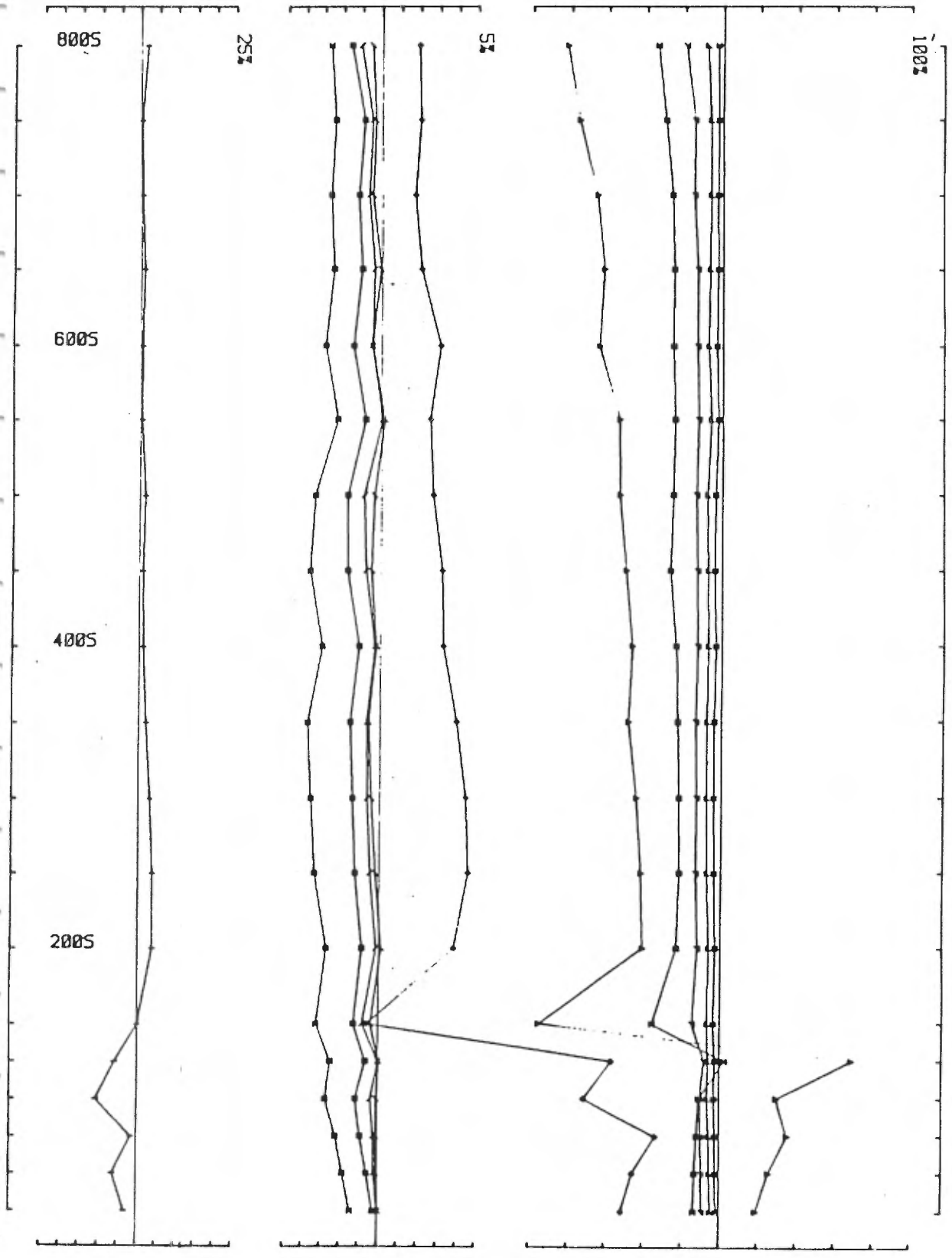
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UTEM SURVEY at PREMIER/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by PDM BEF LAMONTAGNE job 8714 base freq (hz) 30.974 Dec 1987

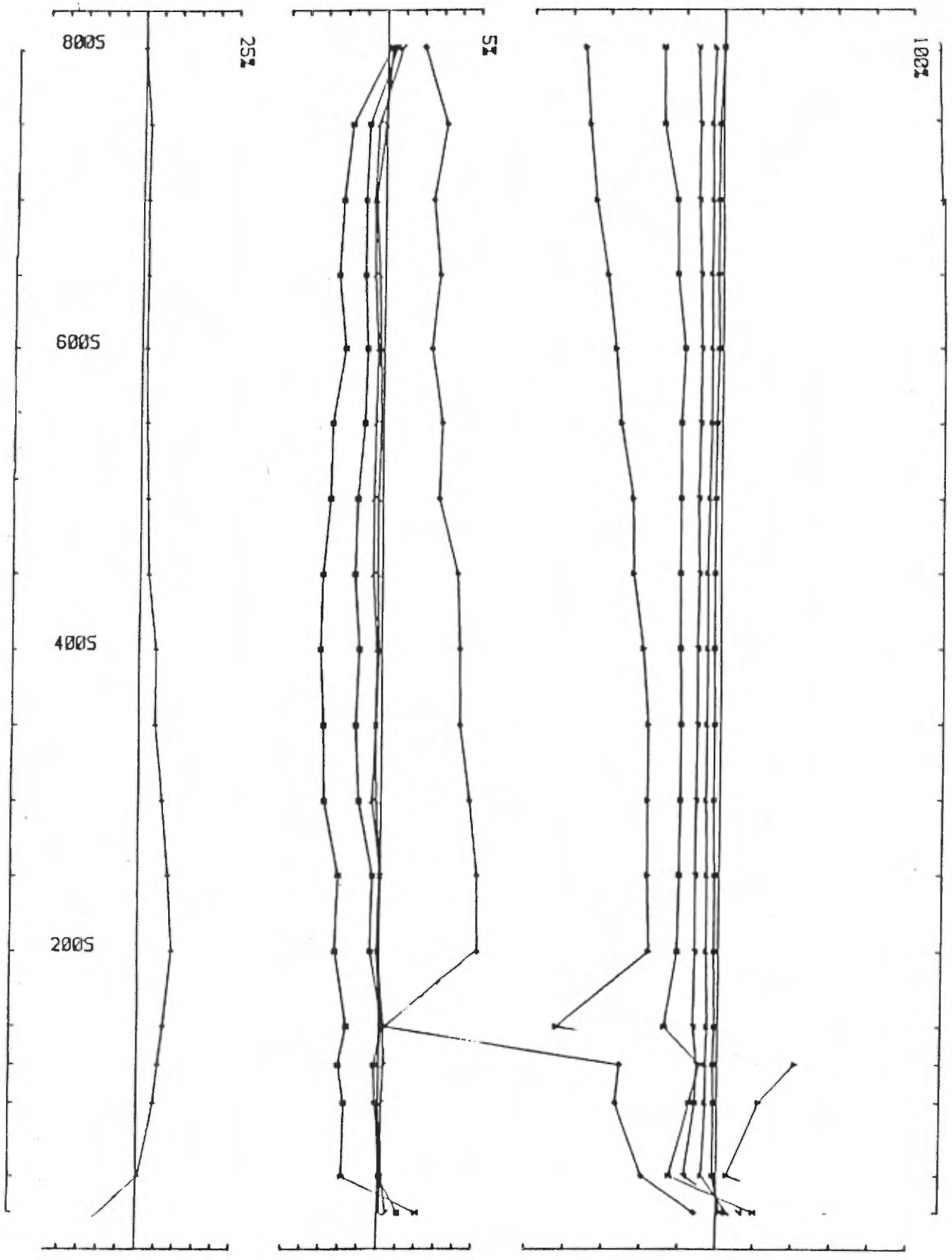
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UTEM SURVEY at PREMIER/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by PDM BEF LAMONTAGNE job 8714 base freq (hz) 30.974 Dec 1987

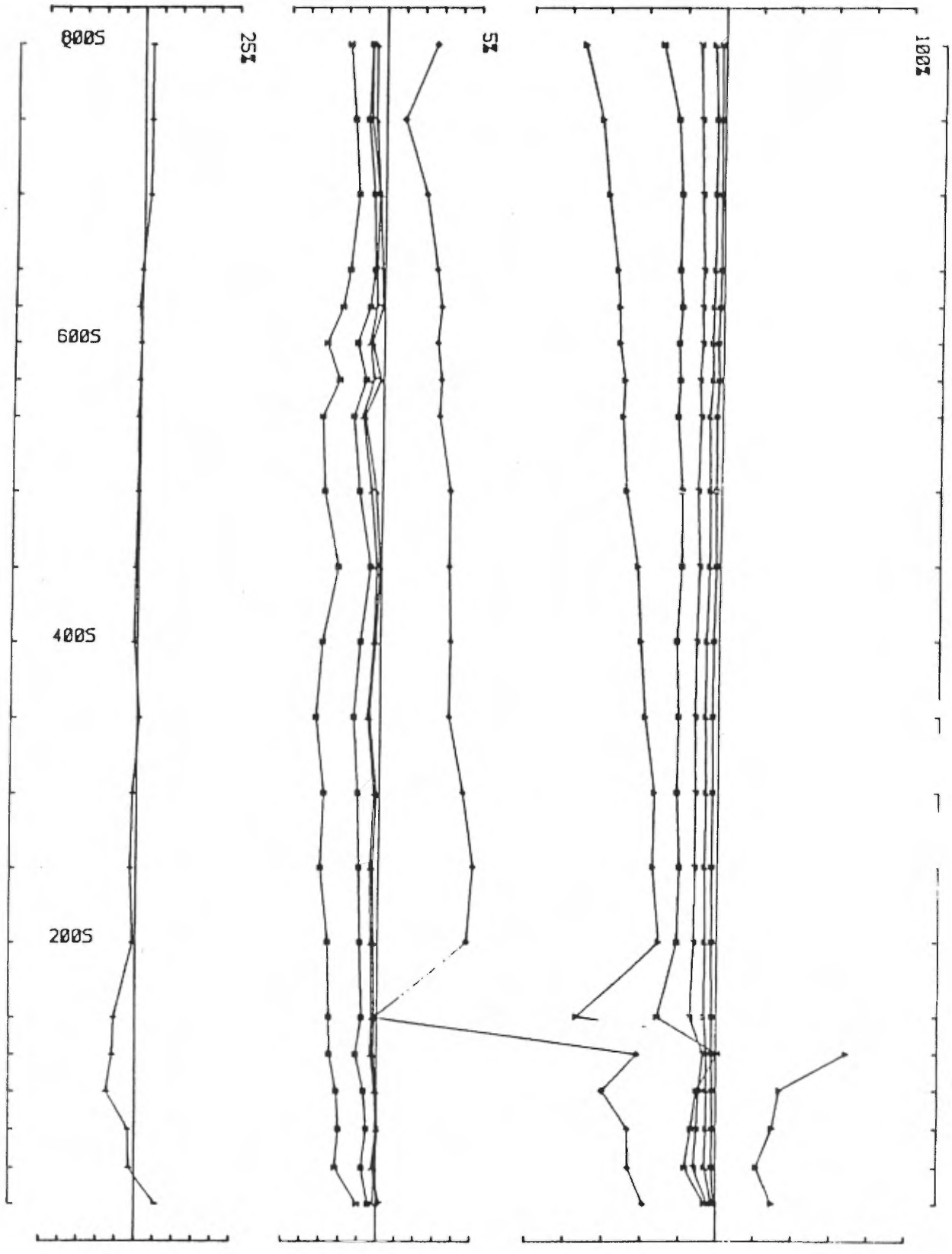
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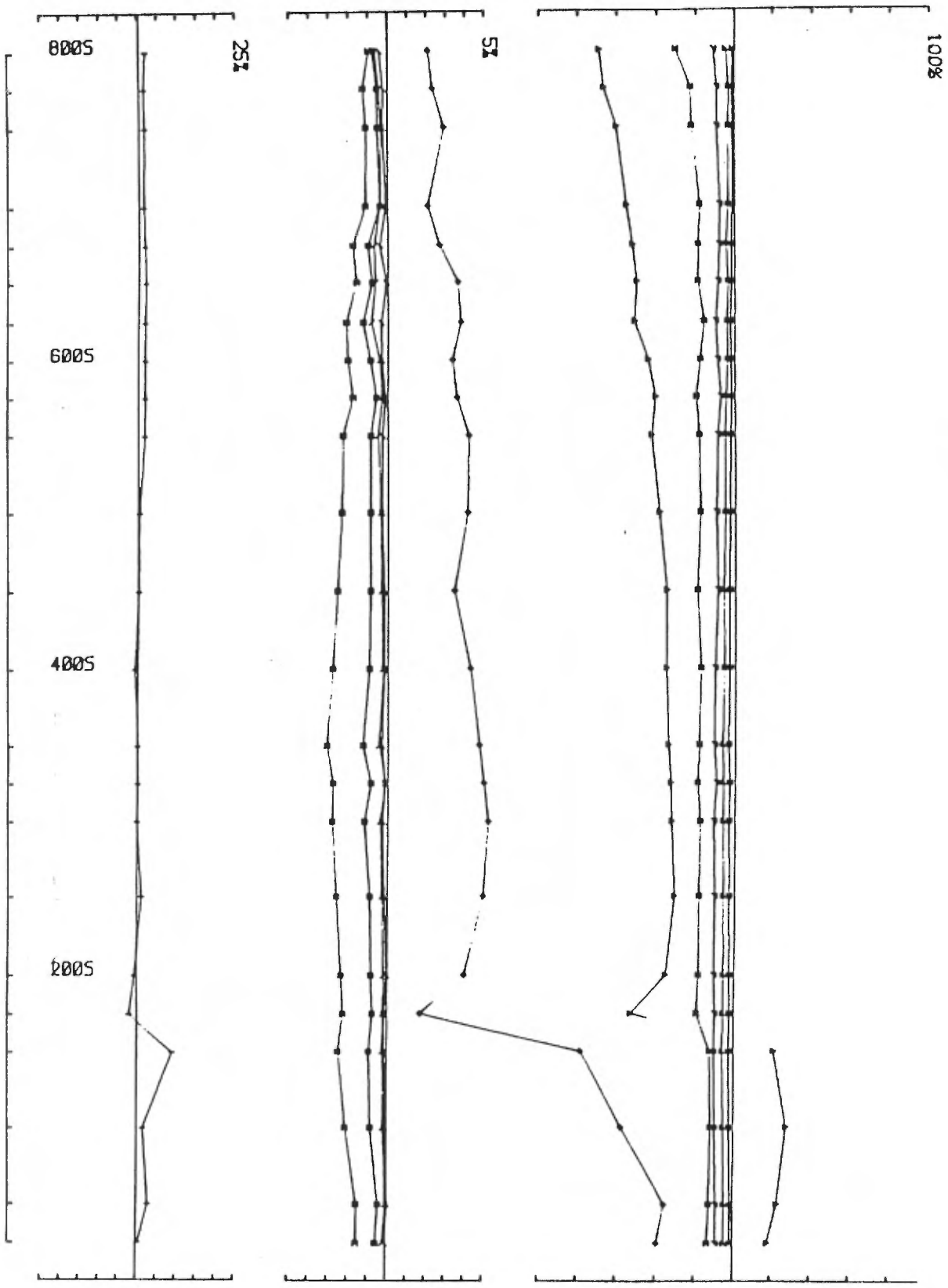
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UTEM SURVEY at PREMIER/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by PDM BEF LAMONTAGNE job 8714 base freq (hz) 30.974 Dec 1987

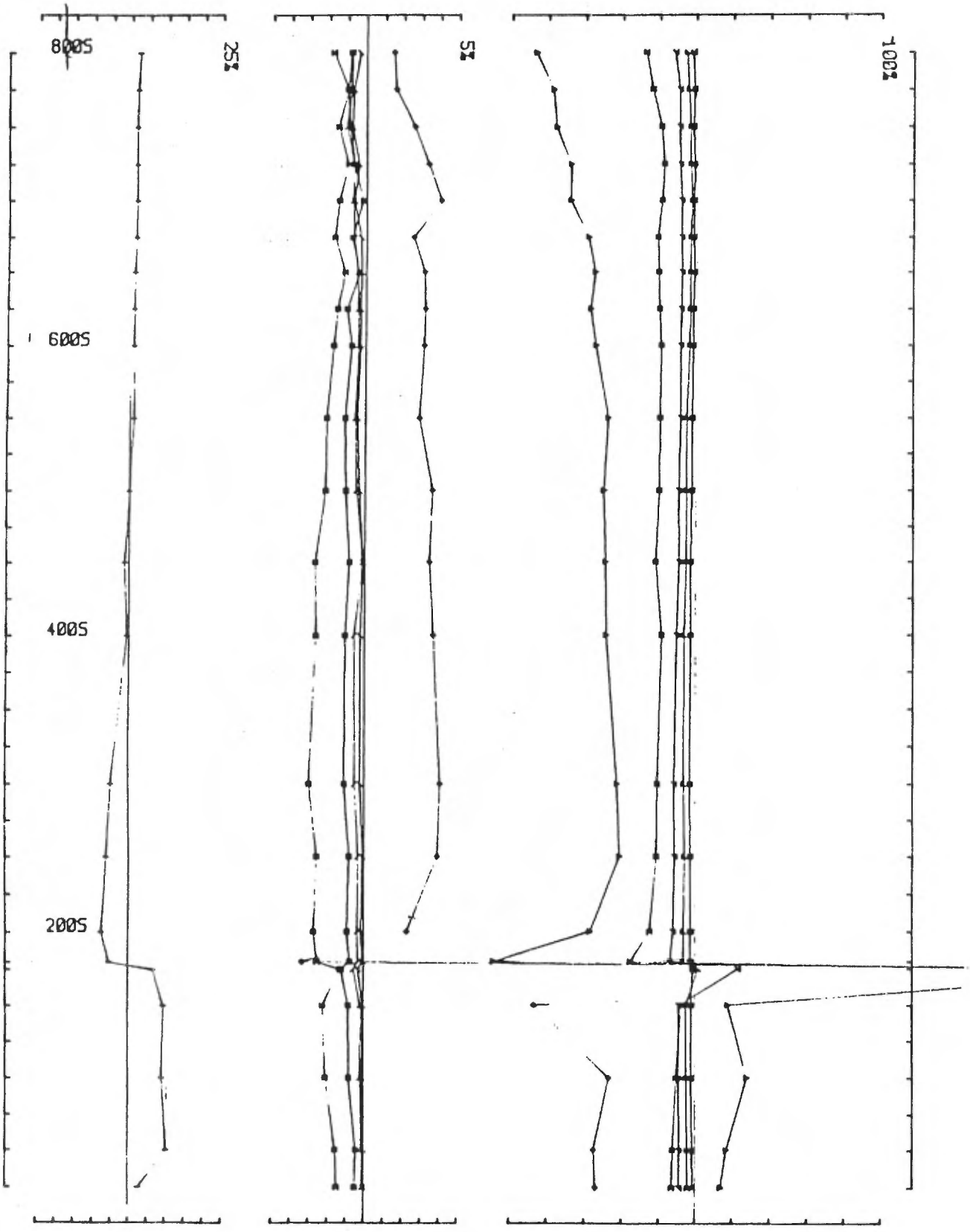
loop no 1 line 500E component Hz secondery field Ch 1 contin. norm.



UTEM SURVEY at PREMIER/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by PDM BEF LAMONTAGNE job 8714 base freq (hz) 30.974 Dec 1987

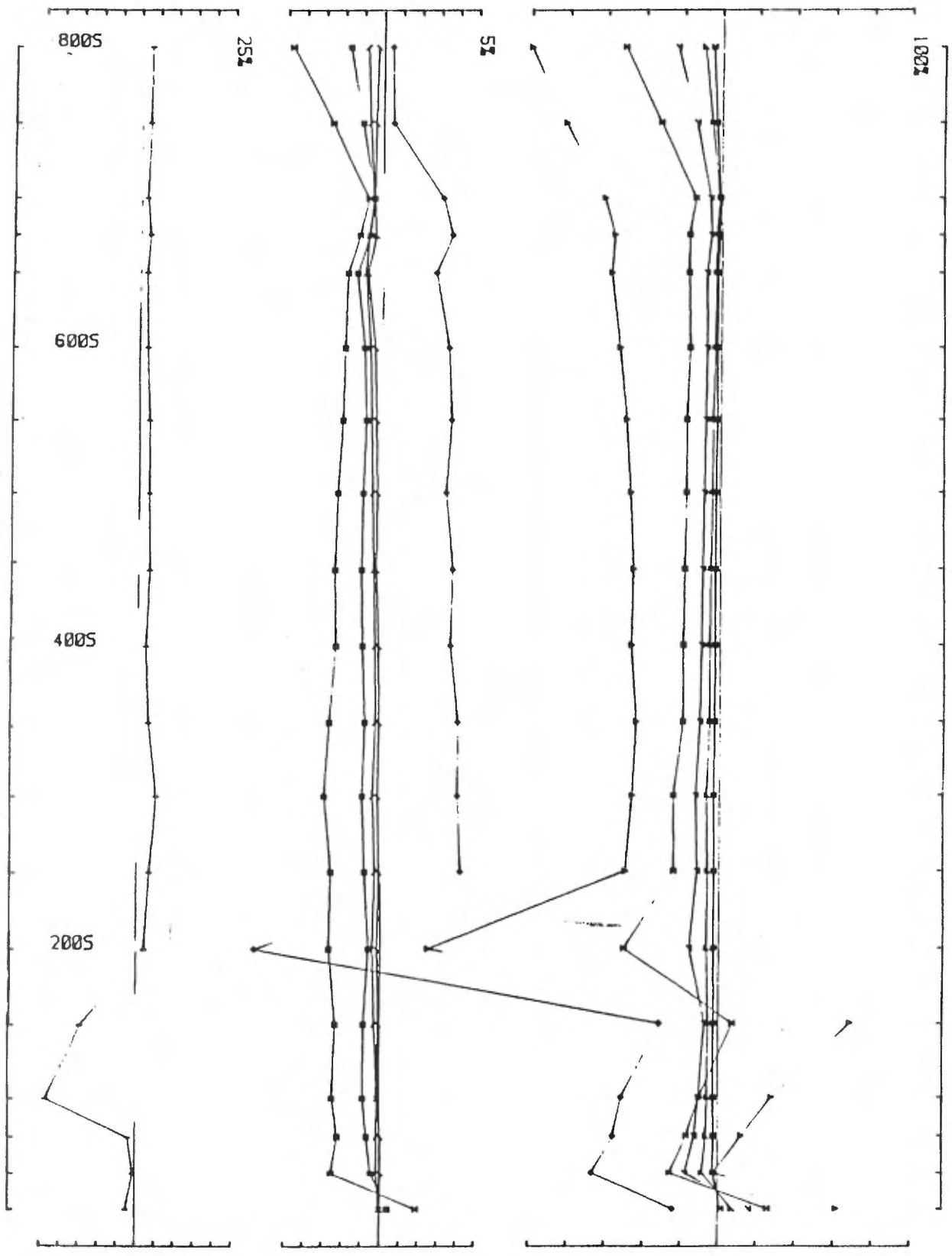
loop no 1 line 600E component Hz secondary field Ch 1 contin. norm.



UTEM SURVEY at PREMIER/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by PDM BEF LAMONTAGNE job 8714 base freq (hz) 30.974 Dec 1987

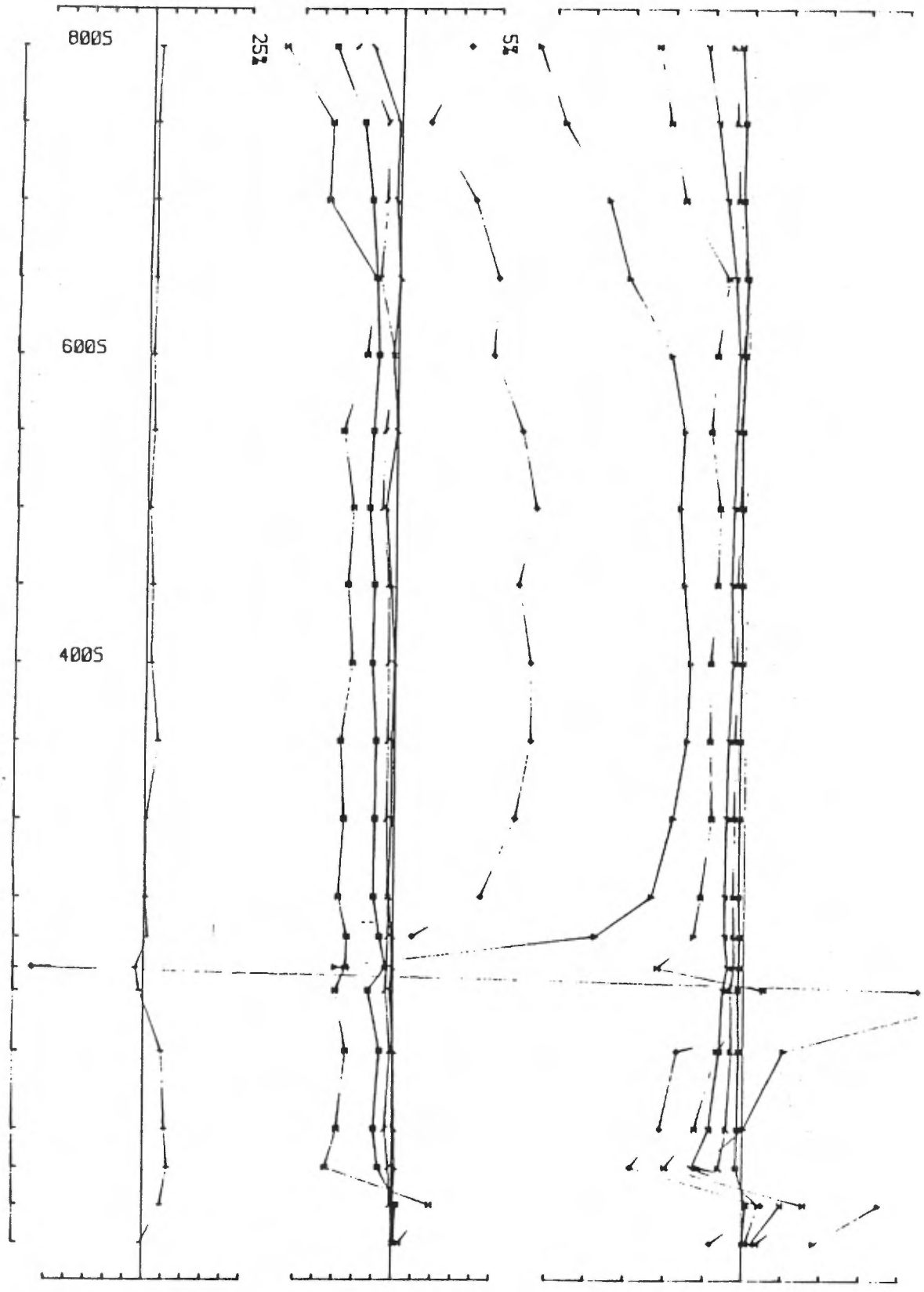
loop no 1 line 700E component Hz secondary field Ch 1 contin. norm.



UTEM SURVEY at PREMIER/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by PDM BEF LAMONTAGNE job 8714 base freq (hz) 30.974 Dec 1987

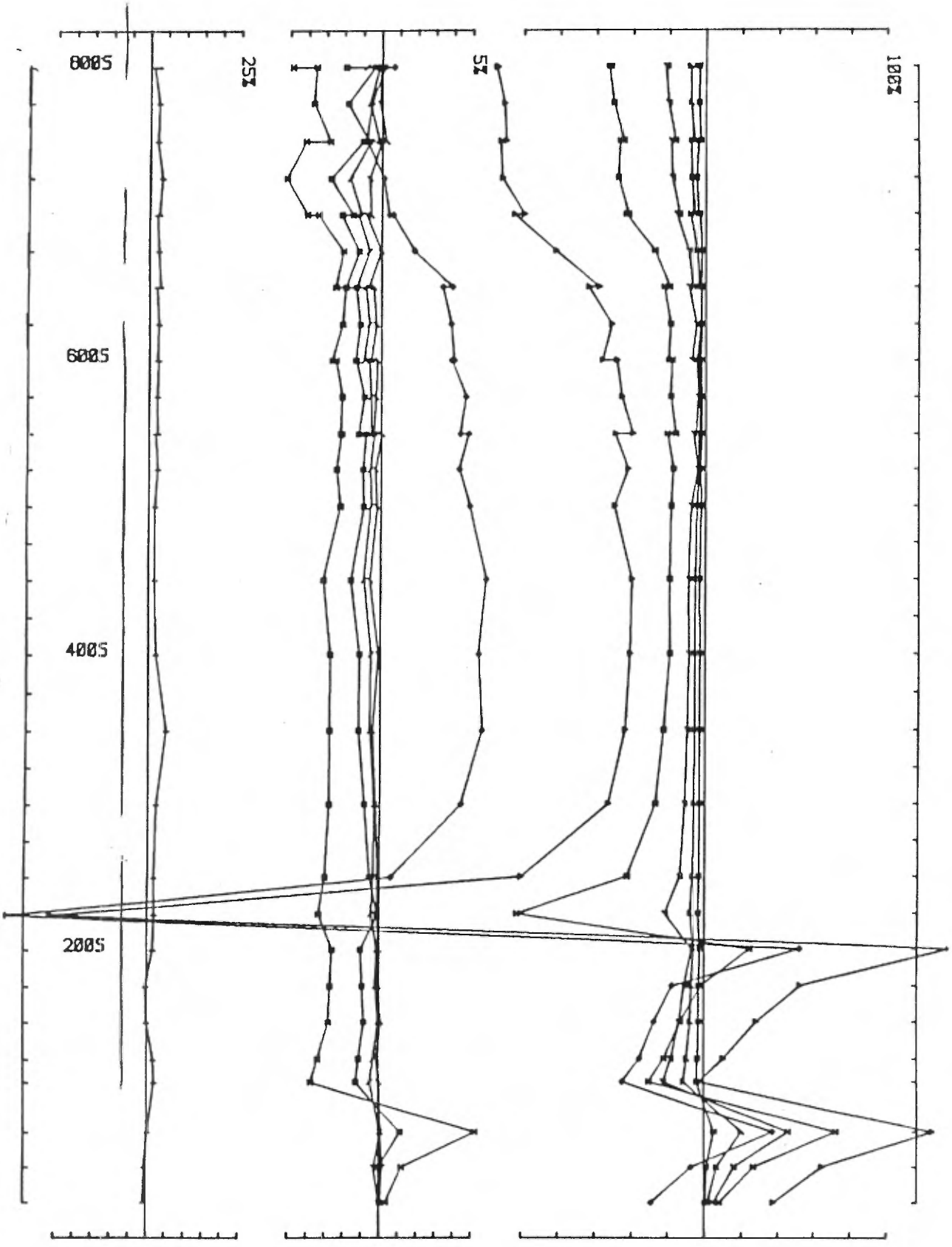
loop no 1 line 800E component Hz secondery field Ch 1 contin. norm.



UTEM SURVEY at PREMIER/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by PDM BEF LAMONTAGNE job 8714 base freq (hz) 30.974 Dec 1987

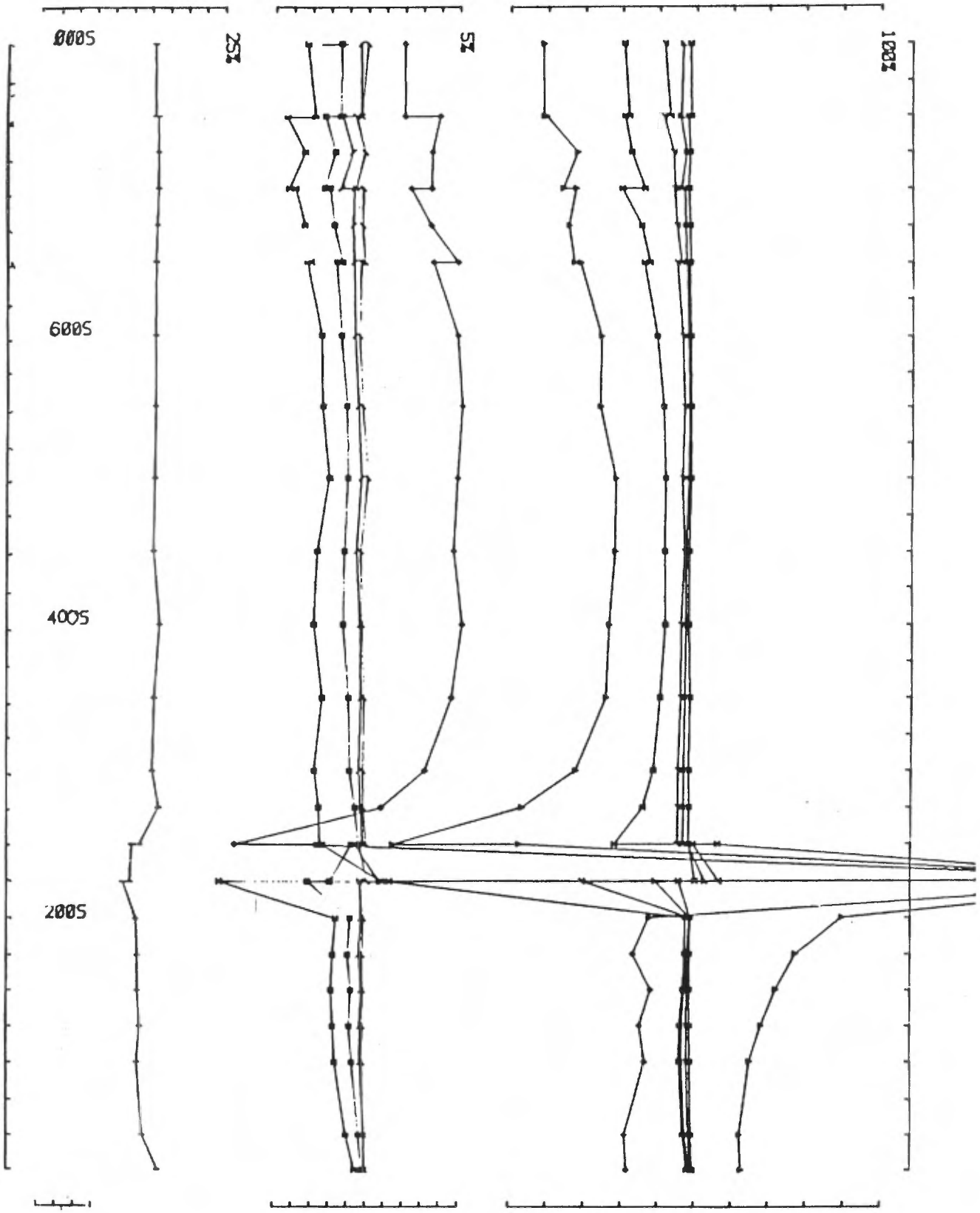
loop no 1 line 900E component Hz secondary field Ch 1 contin. norm.



UTEM SURVEY at PREMIER/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by PDM BEF LAMONTAGNE job 8714 base freq (hz) 30.974

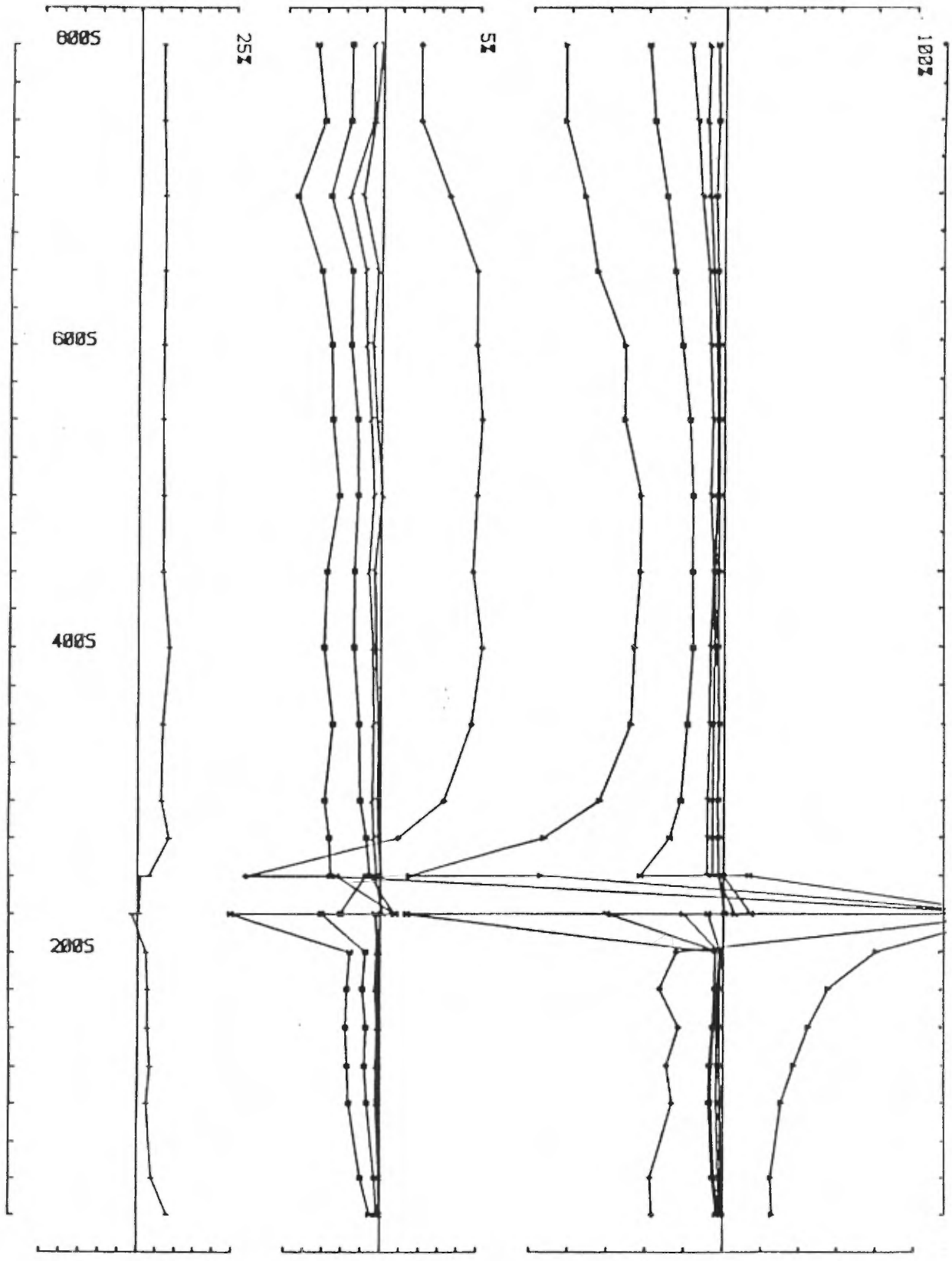
loop no 1 line 1000E component Hz secondary field Ch 1 contin. norm.



UTEM SURVEY at PREMIER/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by PDM BEF LAMONTAGNE job 8714 base freq (hz) 30.974

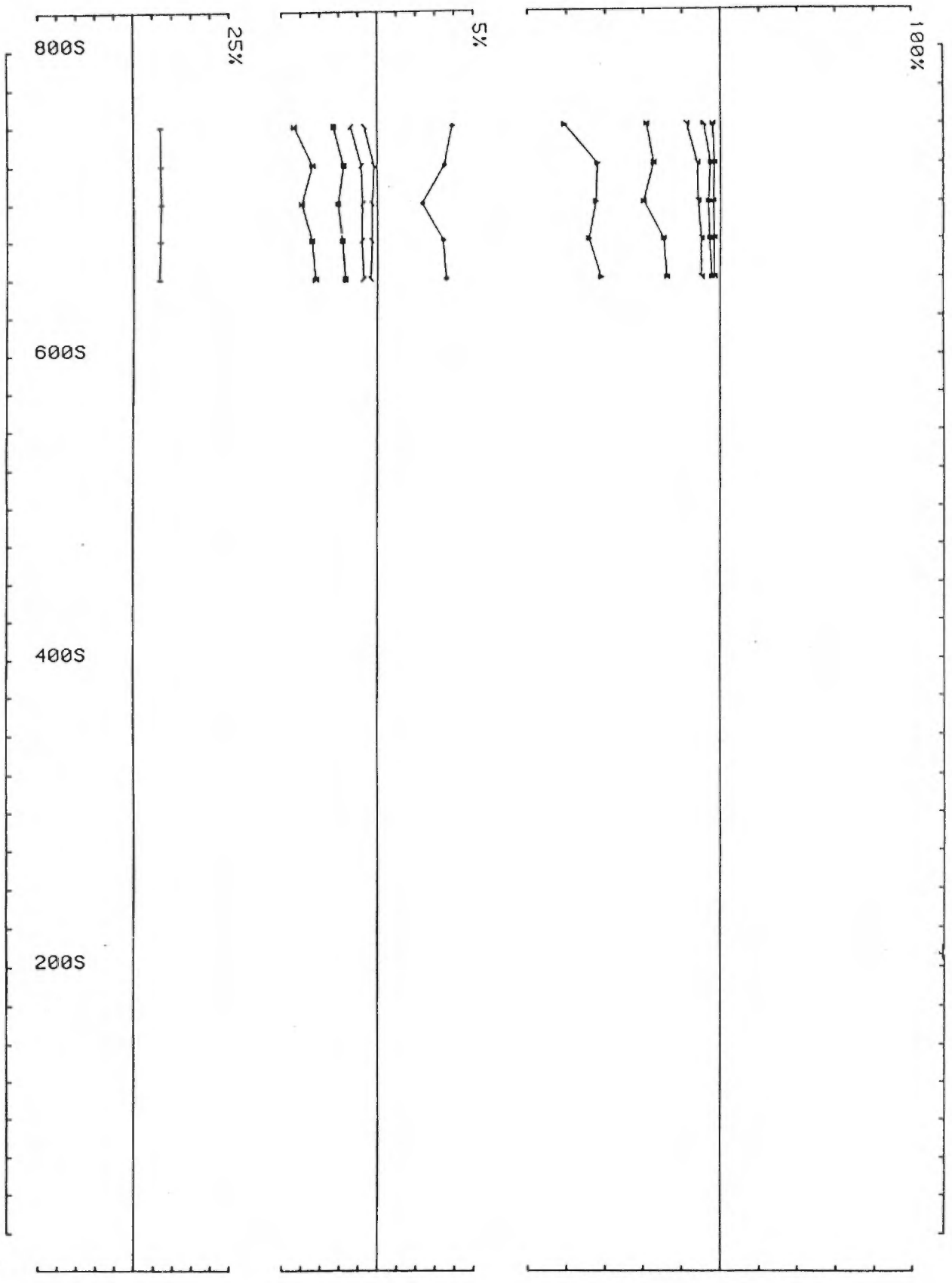
loop no 11 line 1100E component Hz secondary field Ch 1 contin. norm.



UTEM SURVEY at PREMIER/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

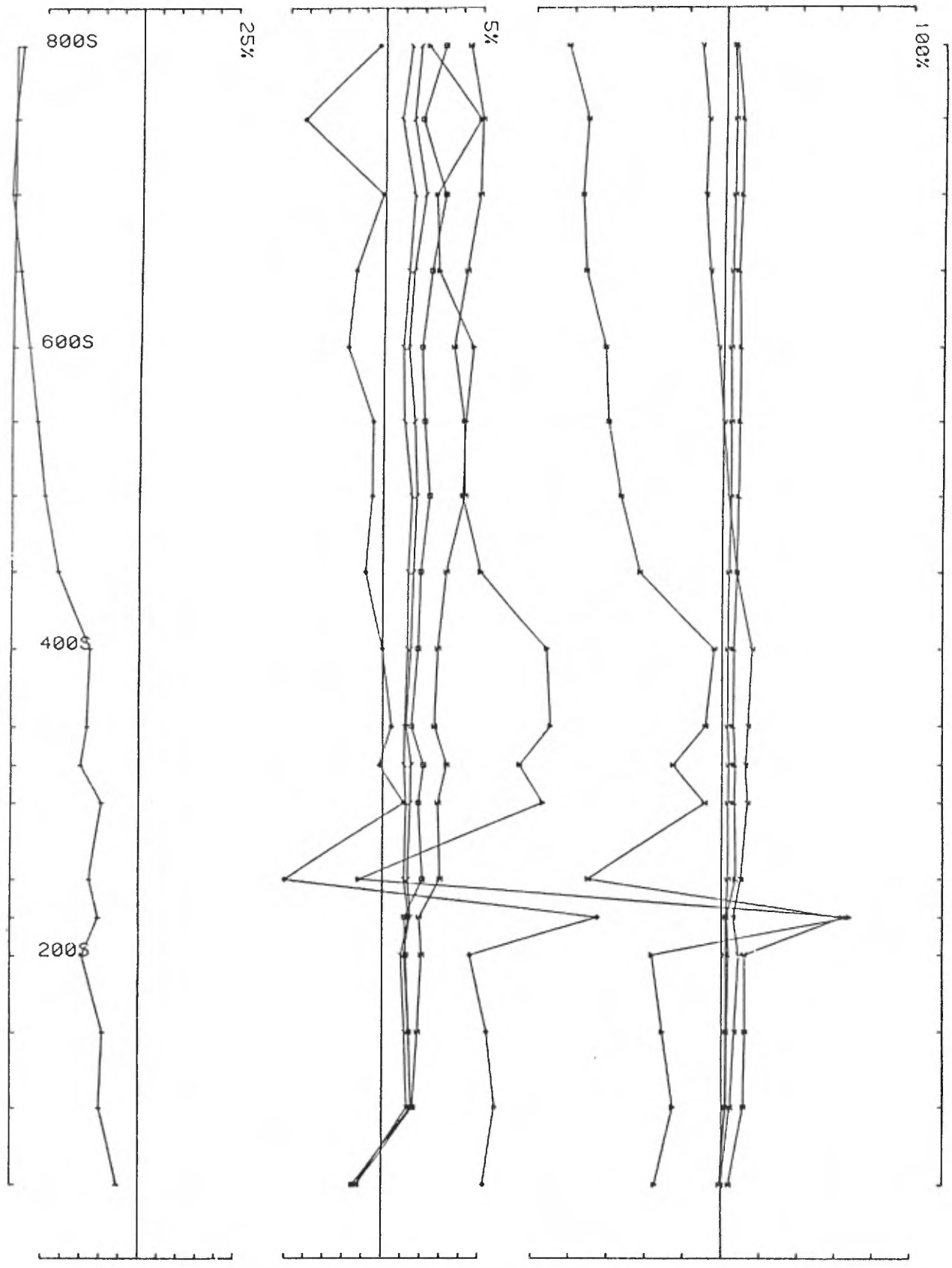
conducted by PDM BEF LAMONTAGNE job 8714 base freq (hz) 30.974

loop no 1401 line 1100E coeponent Hz secondary field Ch 1 contin. norm.



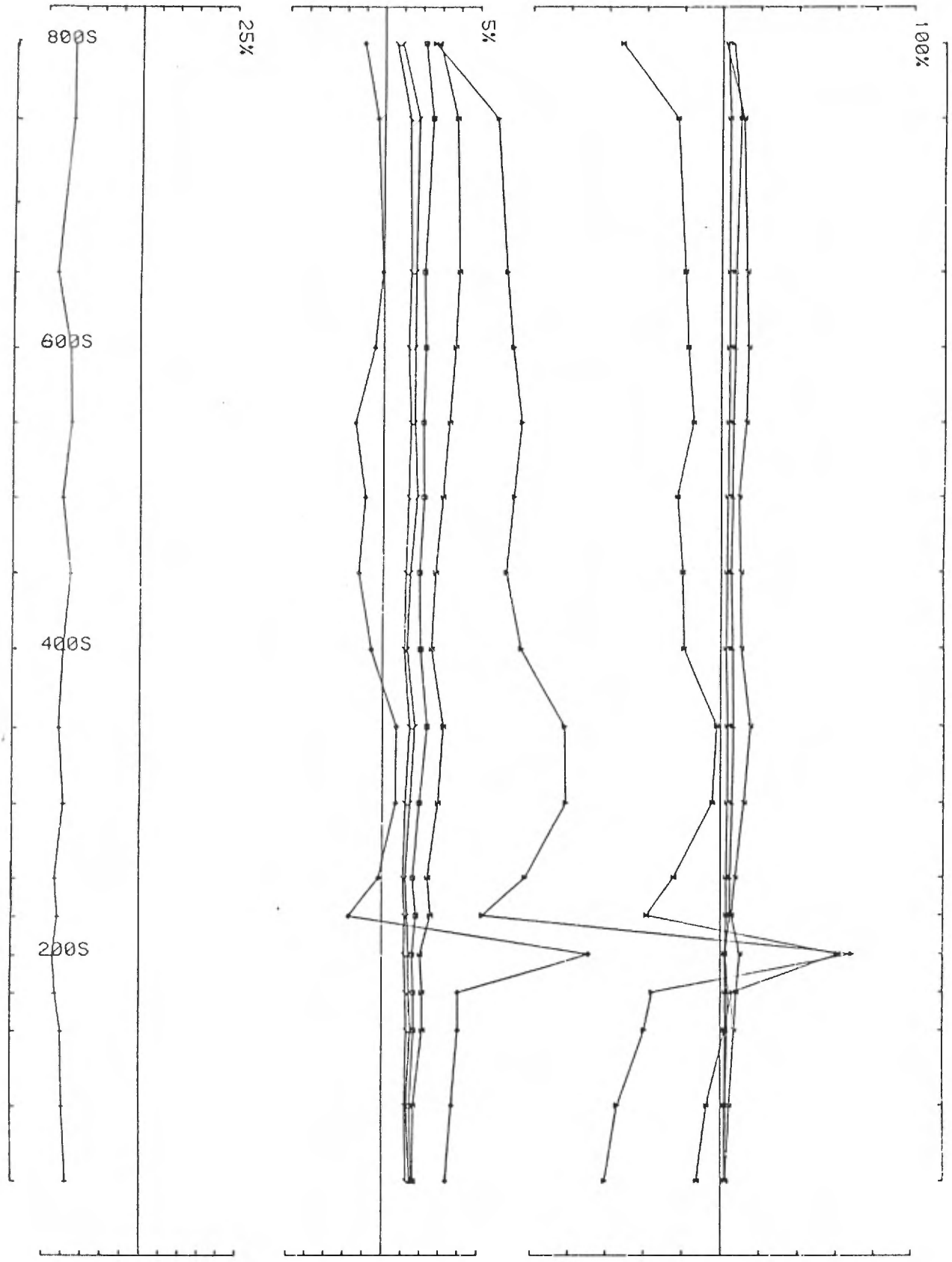
UTEM SURVEY at PREMIER/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by PDM BEF LAMONTAGNE job 8714 base freq (hz) 30.974
loop no 1401-detail line 1100E component Hz secondary field Ch 1 contin. norm



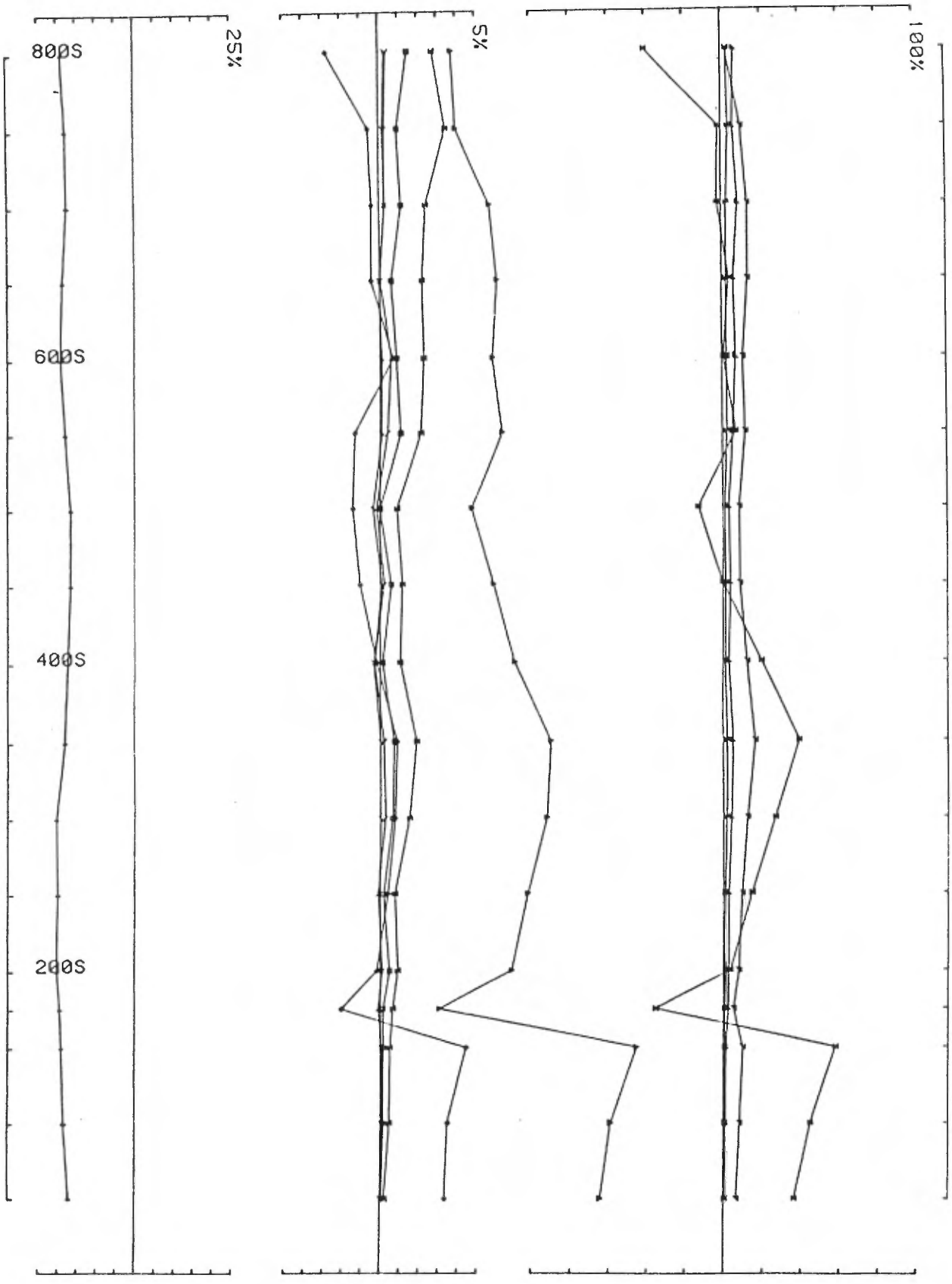
UTEM SURVEY at PREMIER GOLD/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by YL BEF LAMONTAGNE job 8714 base freq (hz) 30.974
loop no 1402 line 1300E component Hz sec



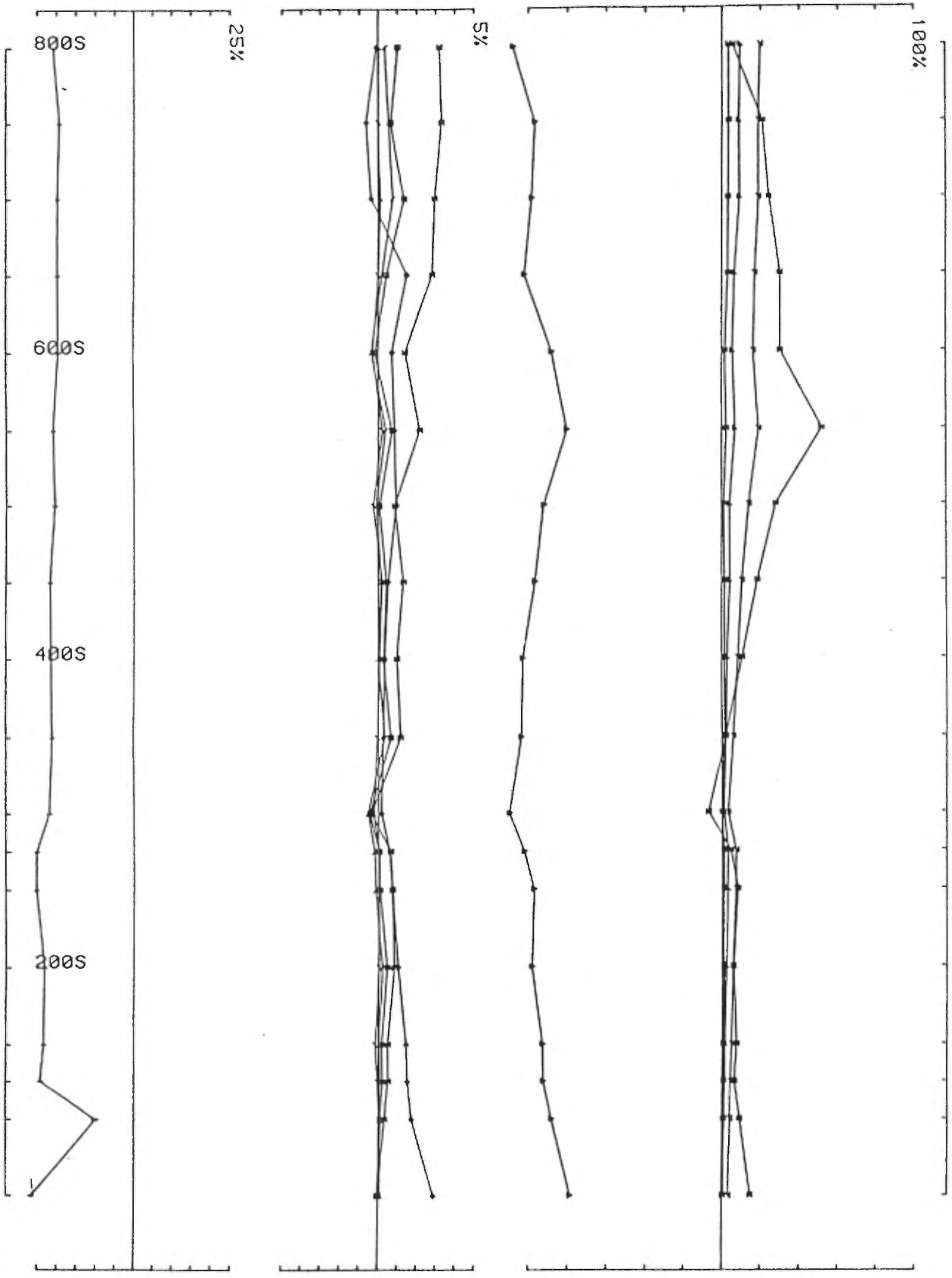
UTEM SURVEY at PREMIER GOLD/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by YL BEF LAMONTAGNE job 8714 base freq (hz) 30.974
loop no 1402 line 1400E component Hz secondary field Ch 1 contin. norm.



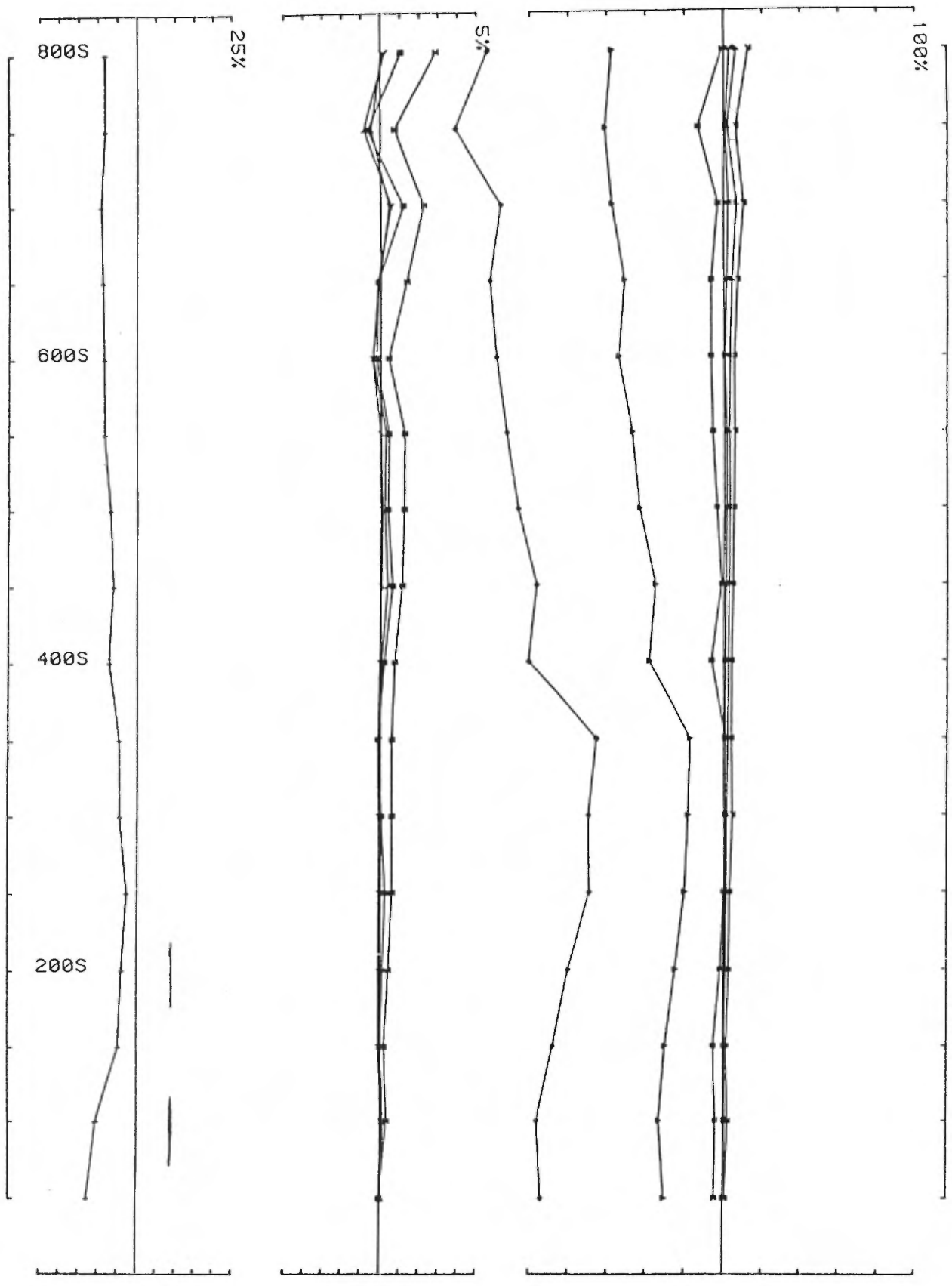
UTEM SURVEY at PREMIER GOLD/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by YL BEF LAMONTAGNE Job 8714 base freq (hz) 30.974
loop no 1402 line 1500E component Hz secondary field Ch 1 contin. perm.



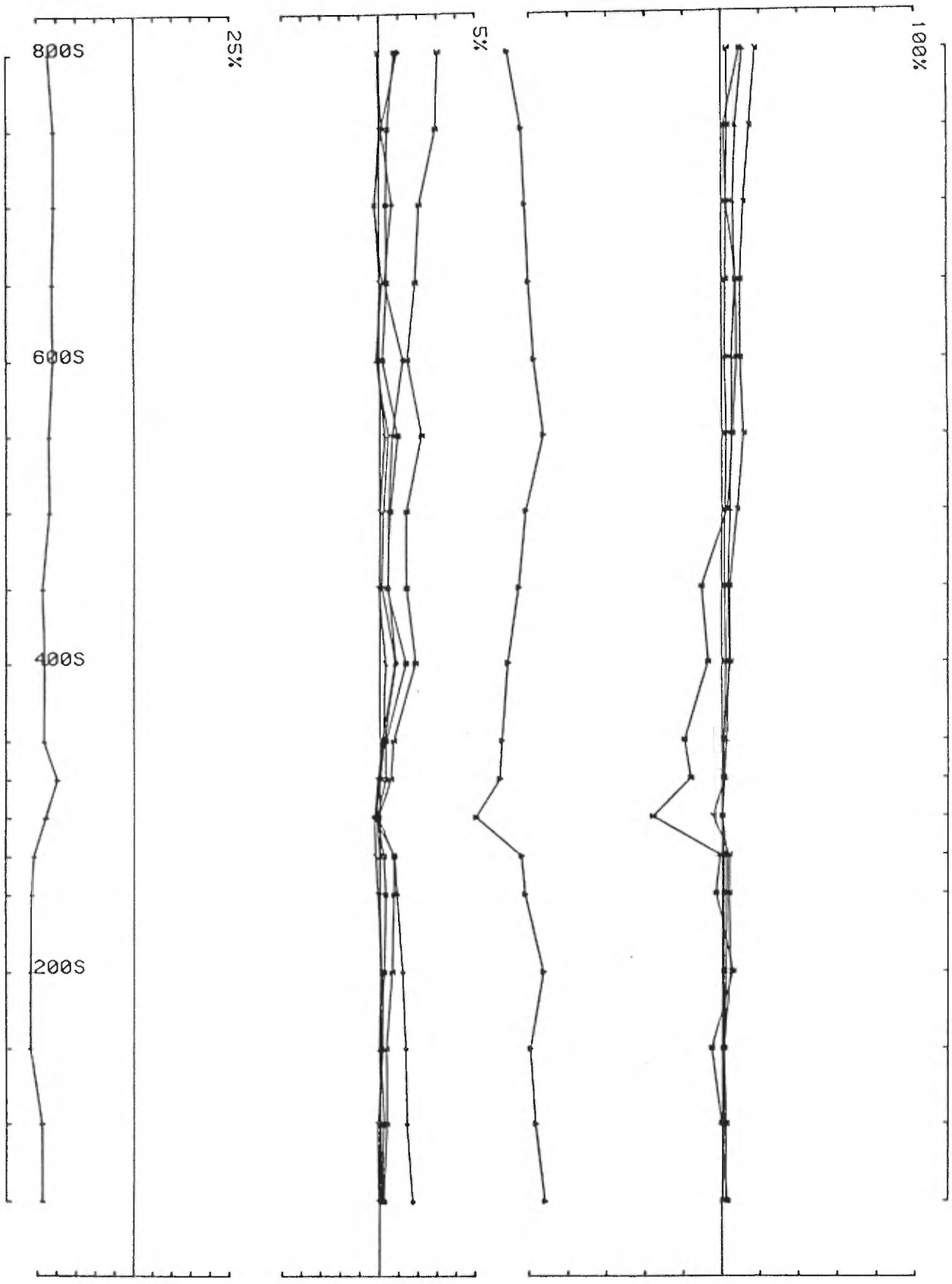
UTEM SURVEY at PREMIER GOLD/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by YL BEF LAMONTAGNE job 8714 base freq (hz) 30.974
loop no 1402 line 1600E component Hz secondary field Ch 1 contin. norm.



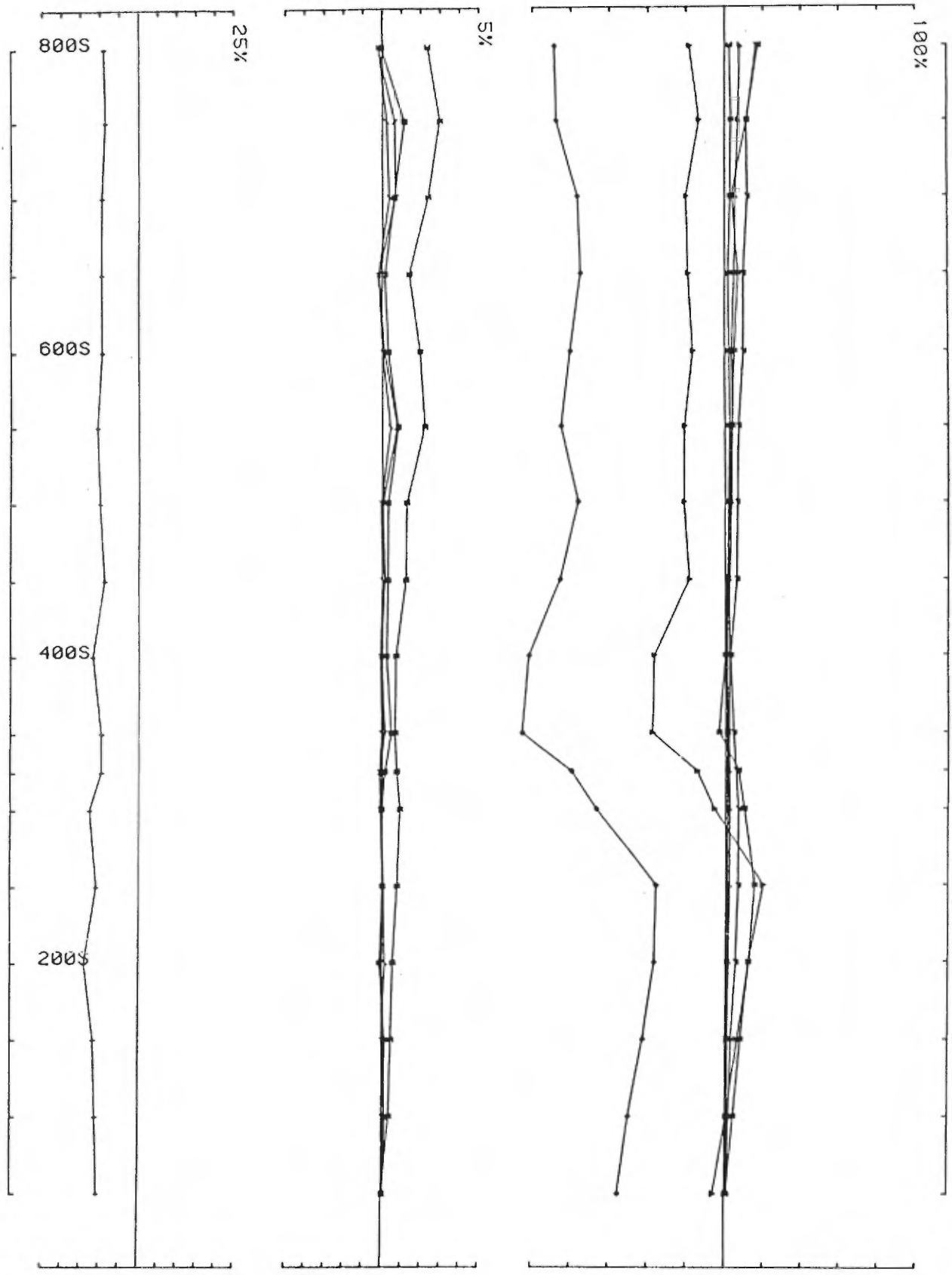
UTEM SURVEY at PREMIER GOLD/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by YL BEF LAMONTAGNE job 8714 base freq (hz) 30.974
loop no 1402 line 2100E component Hz secondary field Ch 1 contin. norm.



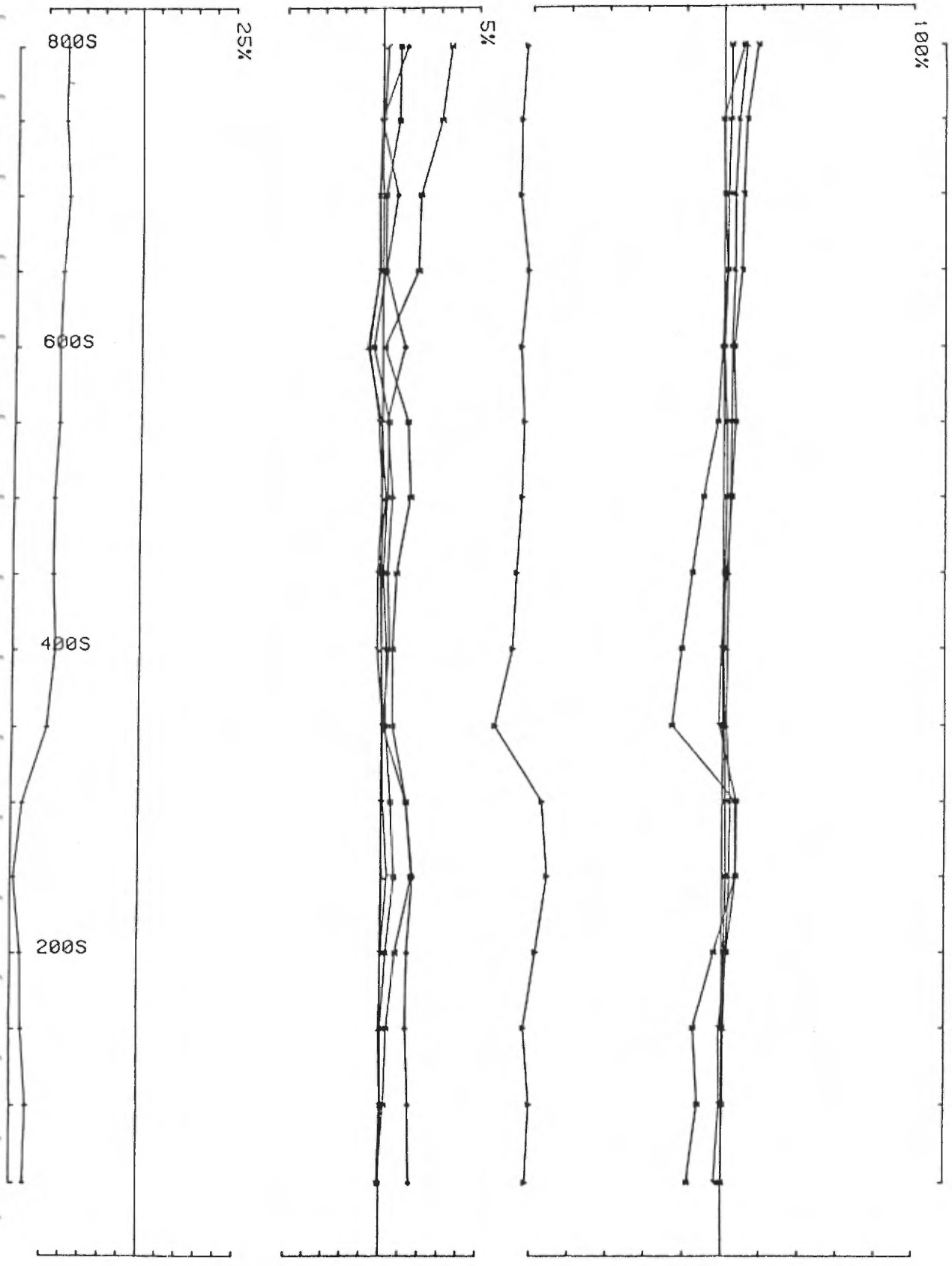
UTEM SURVEY at PREMIER GOLD/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

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loop no 1402 line 1700E component Hz secondary field Ch 1 contin. norm.



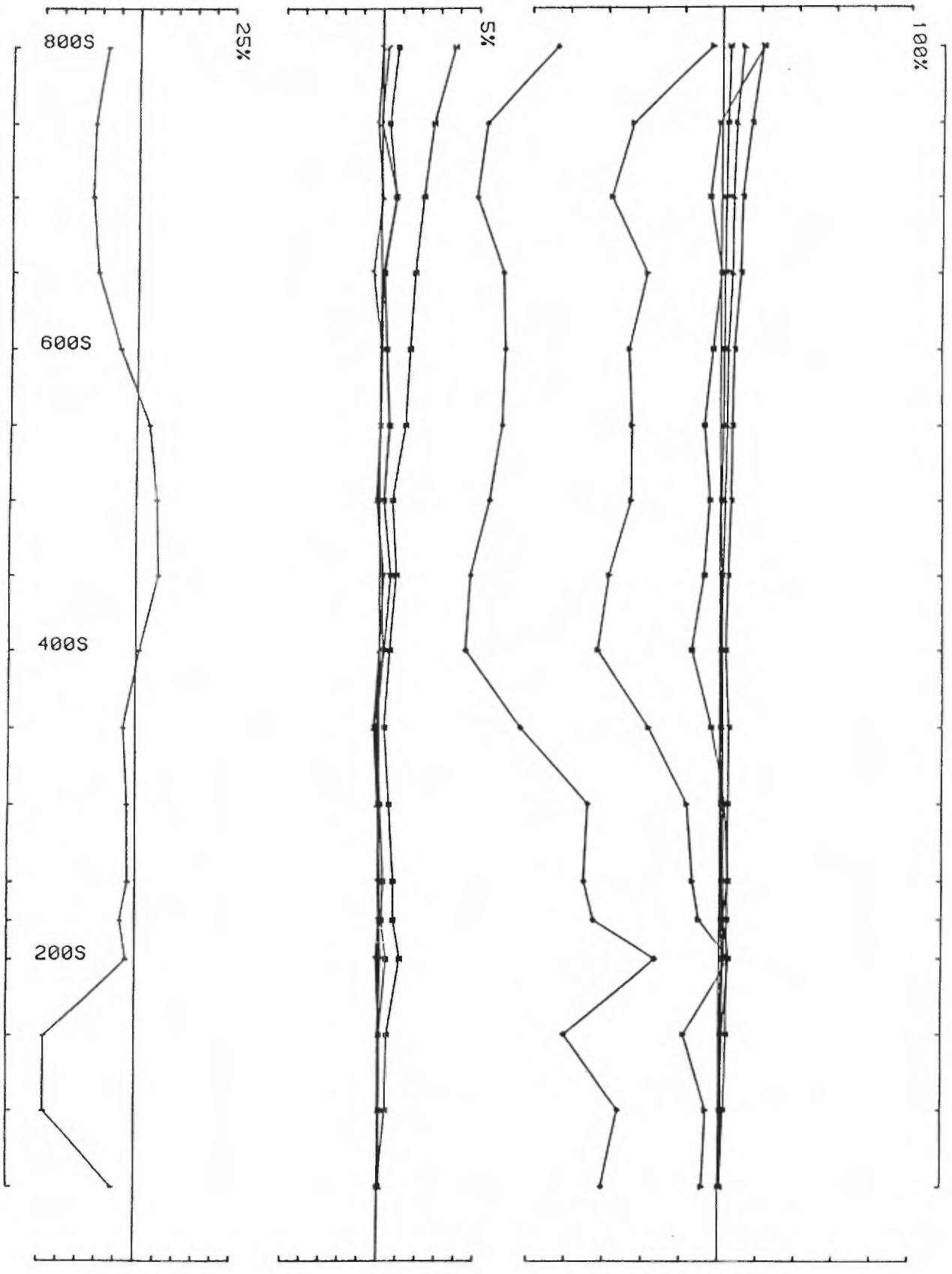
UTEM SURVEY at PREMIER GOLD/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by YL BEF LAMONTAGNE Job 8714 base freq (hz) 30.974
loop no 1402 line 1900E component Hz secondary field Ch 1 contin. norm.



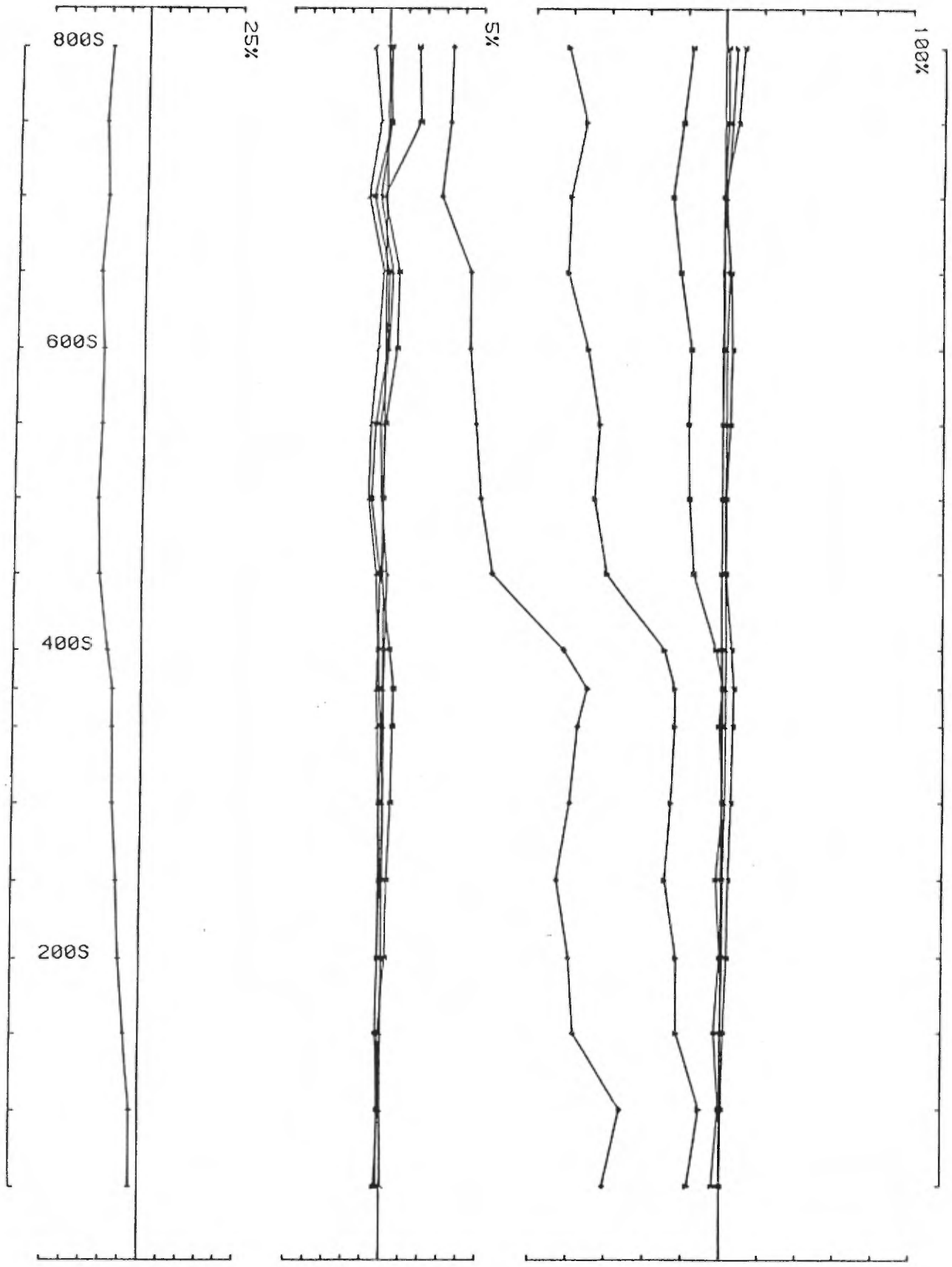
UTEM SURVEY at PREMIER GOLD/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by YL BEF LAMONTAGNE Job 8714 base freq (hz) 30.974
loop no 1402 line 1800E component Hz secondary field Ch 1 contin. norm.



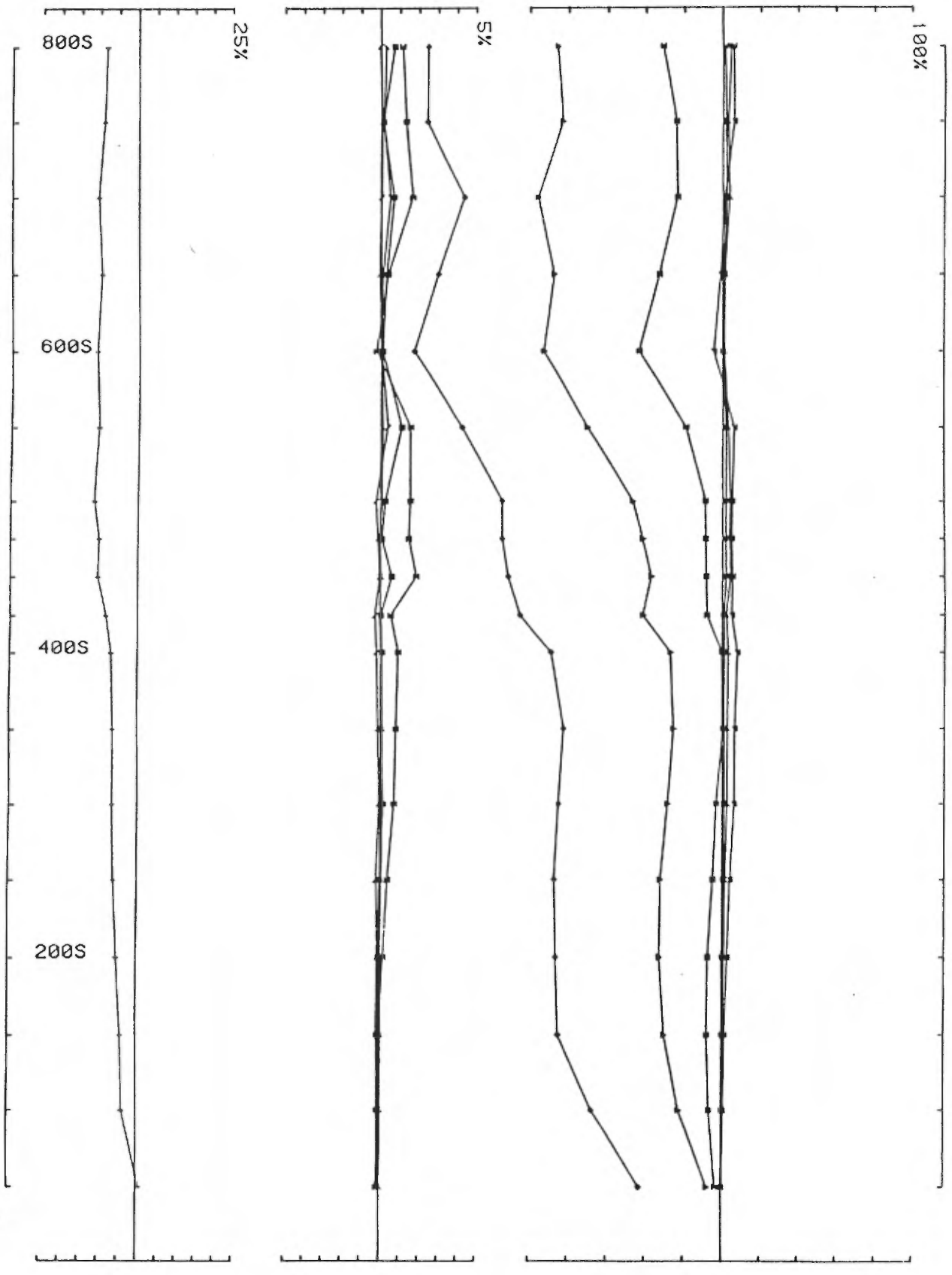
UTEM SURVEY at PREMIER GOLD/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by YL BEF LAMONTAGNE Job 8714 base freq (hz) 30.974
loop no 1402 line 2000E component Hz secondary field Ch 1 contin. norm.



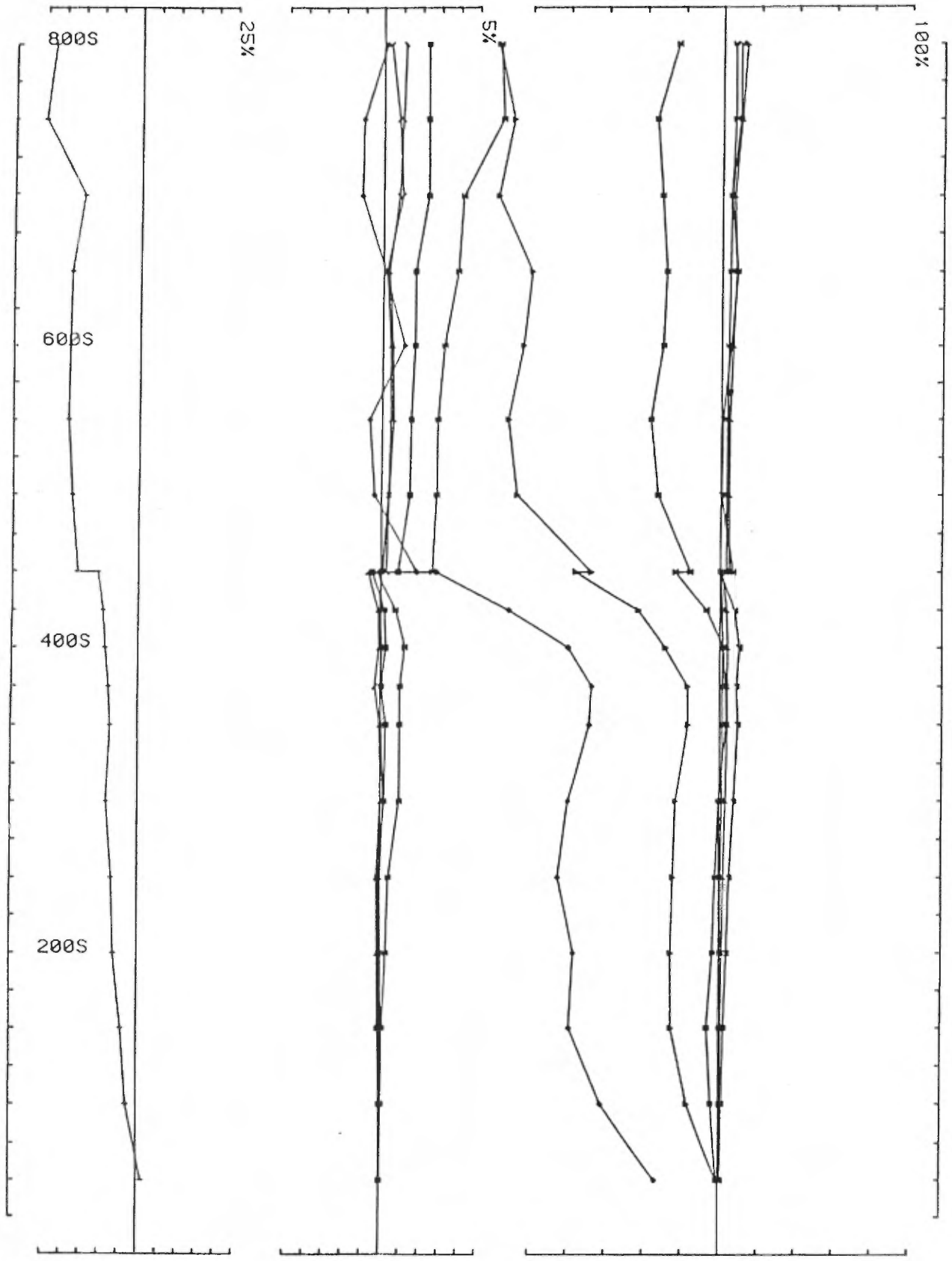
UTEM SURVEY at PREMIER GOLD/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by YL BEF LAMONTAGNE Job 8714 base freq (hz) 30.974
loop no 1402 line 2200E component Hz secondary field Ch 1 contin. norm.



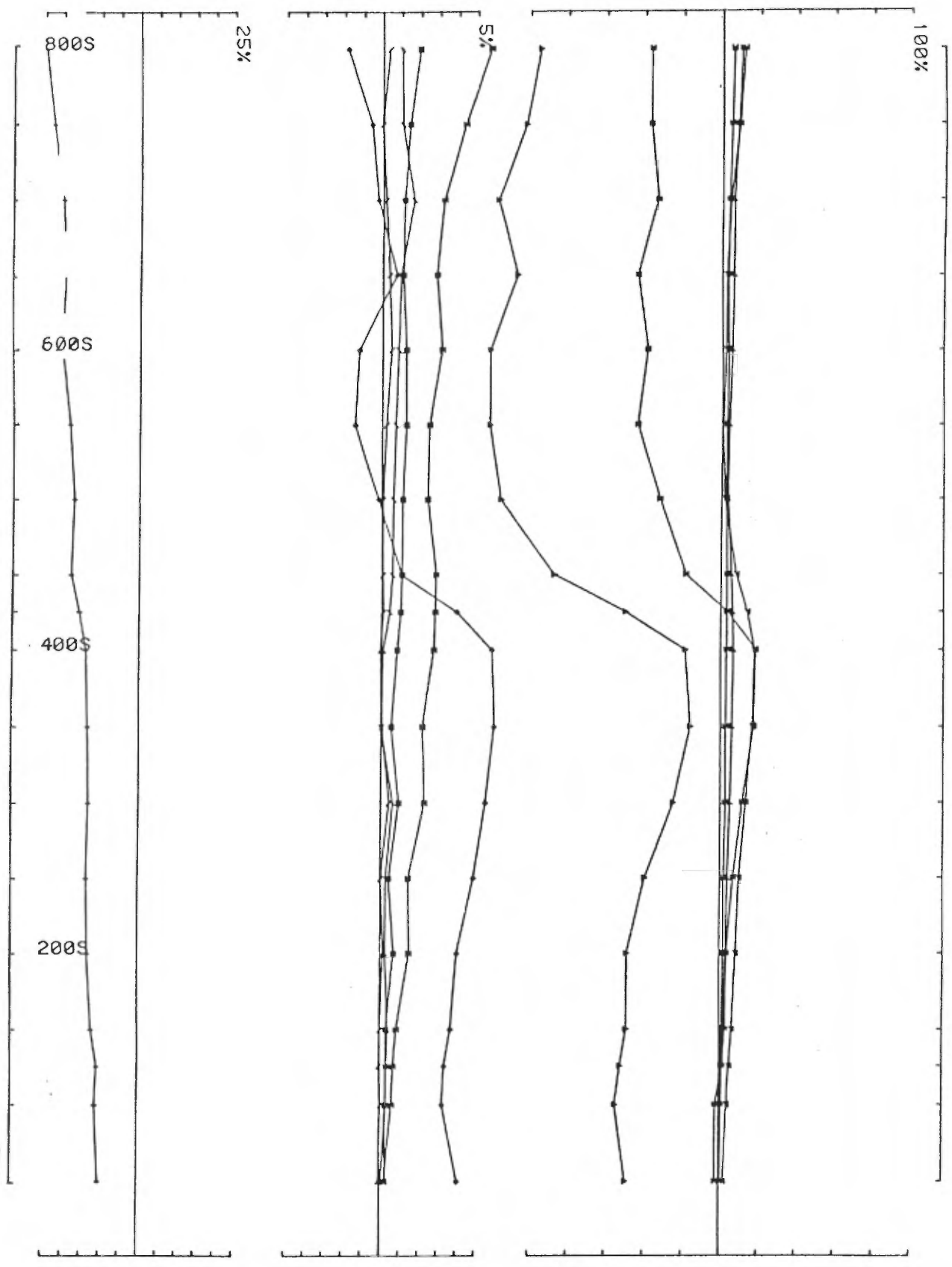
UTEM SURVEY at PREMIER GOLD/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by YL BEF LAMONTAGNE Job 8714 base freq (hz) 30.974
loop no 1402 line 2300E component Hz secondary field Ch 1 contin. norm.



UTEM SURVEY at PREMIER GOLD/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by YL BEF LAMONTAGNE job 8714 base freq (hz) 30.974
loop no 1402 line 2400E component Hz secondary field Ch 1 contin. norm.



UTEM SURVEY at PREMIER GOLD/DASSERAT TWP. for HI-TEC RESOURCE MGMT.

conducted by YL BEF LAMONTAGNE job 8714 base freq (hz) 30.974
loop no 1402 line 2500E component Hz secondary field Ch 1 contin. norm.

APPENDIX VI

Uncorrected Field Data



OMNI-PLUS Tie-line MAG/VLF Ser #218035
VLF DATA
Date 13 JAN 87
Operator: 5001
Records: 65
Bat: 17.3 Volt Lithium: 3.48 Volt
Last time update: 1/11 12:27:00
Start of print: 1/14 17:35:35

#1	71.0	0.2	2932.	13.0	99

Line 6+00 E Date 13 JAN 87 24.8 #2

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
0+00 N	42.3	100.0	4.75	43.3	42

Line 6+00 E Date 13 JAN 87 24.8 #3

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
0+25 S	-35.7	-46.1	4.35	25.9	43
0+50 S	-0.5	2.8	6.47	20.9	54
0+75 S	0.7	8.8	7.20	26.6	44
1+00 S	-14.6	14.9	9.18	18.8	35
1+25 S	-87.2	-0.9	8.31	18.1	9
1+50 S	-62.2	13.3	6.40	23.4	43
1+75 S	-55.3	16.5	5.84	22.8	39
2+00 S	-47.3	17.6	5.49	3.0	49
2+25 S	-43.3	17.1	5.16	20.7	25
2+50 S	-40.6	17.0	4.92	18.0	19
2+75 S	-35.6	17.1	4.68	21.9	39
3+00 S	-31.8	15.9	4.55	33.4	44
3+25 S	-27.2	13.4	4.46	19.4	29
3+50 S	-23.5	12.7	4.38	15.9	29
3+75 S	-20.1	10.3	4.27	6.6	26
4+00 S	-17.3	9.8	4.22	34.9	22
4+25 S	-12.7	8.1	4.26	27.0	34
5+25 S	-10.5	5.7	4.20	35.8	33
5+50 S	-8.1	5.3	4.26	23.7	23
5+75 S	-4.3	1.9	4.23	20.9	53
6+00 S	2.6	0.3	4.27	28.1	43
6+25 S	3.4	-1.1	4.40	26.4	33
6+50 S	8.4	-1.2	4.40	24.0	43
6+75 S	10.5	-2.9	4.51	23.2	43
7+00 S	14.0	-2.9	4.65	20.7	43
7+25 S	17.3	-2.1	4.84	24.5	23
7+50 S	19.0	0.5	5.05	20.2	44
7+75 S	22.6	2.3	5.22	18.0	44
8+00 S	23.7	5.5	5.54	7.5	46

Line 7+00 E Date 13 JAN 87 24.8 #32

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
8+00 S	-15.6	0.9	6.45	11.3	58
7+75 S	-22.7	-1.1	5.90	3.3	46
7+50 S	-24.7	1.6	5.61	27.9	43
7+25 S	-23.7	2.3	5.27	19.7	34
7+00 S	-22.5	3.9	5.08	16.4	33

6+75	S	-18.9	3.1	4.85	13.9	34
6+50	S	-16.2	3.0	4.69	30.1	23
6+25	S	-12.1	5.5	4.52	28.4	33
6+00	S	-6.3	6.7	4.56	20.8	44
5+75	S	-5.0	3.1	4.64	30.1	43
5+50	S	-4.4	-0.2	4.55	28.6	43
5+25	S	1.6	0.4	4.57	35.9	23
5+00	S	2.3	-2.0	4.63	23.5	43
4+75	S	8.2	-3.9	4.66	29.6	13
4+50	S	13.7	-1.1	4.69	34.7	43
4+25	S	19.8	-4.5	4.85	22.3	43
4+00	S	22.5	-7.0	4.93	23.1	43
3+75	S	27.1	-6.9	4.98	22.2	33
3+00	S	38.7	-8.2	5.98	30.3	12
2+75	S	39.5	-10.6	6.46	22.3	34
2+50	S	41.3	-11.9	6.63	13.0	24
2+25	S	47.5	-10.8	6.98	29.9	23
2+00	S	60.8	-10.5	7.87	14.5	43
1+75	S	89.7	-3.5	10.26	17.9	36
1+25	S	0.6	-7.7	9.03	27.5	14
1+00	S	-7.2	-4.0	8.77	26.5	24
0+75	S	3.5	6.5	6.84	26.8	34
0+50	S	12.6	14.3	6.19	18.3	24
0+25	S	37.5	42.6	5.68	20.7	23
0+00	N	38.3	-55.2	5.19	12.1	32

Line 8+00 E Date 13 JAN 87 24.8 #62

POSITION		I/P	QUAD	T.FLD	DIR	CULT S
0+50	N	-33.7	-31.8	5.80	27.7	46
1+00	S	-8.0	-8.5	5.95	27.2	43
1+25	S	10.5	5.0	7.21	27.9	44
1+50	S	-104.1	1.9	10.11	49.1	29

EOF

OMNI-PLUS Tie-line MAG/VLF Ser #218035
VLF DATA
Date 15 JAN 87
Operator: 5001
Records: 203
Bat: 17.0 Volt   Lithium: 3.46 Volt
Last time update: 1/11 12:27:00
Start of print: 1/15 16:50:58

Line 8+00 E Date 15 JAN 87 24.8 #1

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
2+50 S	71.2	0.1	2900.	12.0	99
#2	71.1	0.1	2906.	12.0	99

Line 8+00 E Date 15 JAN 87 24.8 #3

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
2+50 S	-58.4	11.0	5.69	25.2	59
2+75 S	-39.6	13.5	5.11	27.3	29
3+00 S	-40.0	9.8	5.19	0.9	39
3+25 S	-40.7	5.6	4.50	20.0	45
3+50 S	-37.1	6.6	3.98	23.5	43
3+75 S	-33.7	5.1	4.05	16.7	36
4+00 S	-31.2	4.4	3.68	15.7	39
4+25 S	-27.1	4.0	3.72	24.2	44
4+50 S	-22.4	2.8	3.59	18.5	43
4+75 S	-16.4	2.9	3.37	21.6	43
5+00 S	-11.4	3.9	3.31	24.0	32
5+25 S	-2.3	6.4	3.66	22.5	33
5+50 S	-0.4	0.9	3.44	24.8	13
5+75 S	2.1	-1.4	3.34	23.9	53
6+00 S	6.2	-2.9	3.85	21.0	13
6+25 S	9.8	-5.4	3.59	29.2	32
6+50 S	17.1	-1.9	3.98	22.0	23
6+75 S	23.0	0.1	4.16	24.7	33
7+00 S	26.0	0.9	4.52	9.0	23
7+25 S	19.2	1.2	5.12	2.5	24
7+50 S	-2.1	-0.3	5.30	13.8	36
7+75 S	-21.7	0.2	4.58	6.1	29
8+00 S	-17.7	-0.7	4.14	23.9	35

Line 9+00 E Date 15 JAN 87 24.8 #26

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
8+00 S	9.9	8.2	4.26	32.6	23
7+75 S	0.7	-3.7	4.00	27.8	33
7+50 S	16.9	5.9	3.88	30.2	22
7+25 S	26.2	12.6	4.43	32.9	22
7+00 S	11.3	5.2	5.68	11.6	15
6+75 S	-17.5	-3.5	4.51	24.8	19
6+50 S	-14.9	6.0	3.94	26.6	9
6+25 S	-17.6	0.3	3.87	32.4	13
6+00 S	-15.8	-2.9	3.80	38.9	23
5+75 S	-10.1	-2.5	3.61	38.0	23
5+50 S	-7.8	-5.5	4.02	54.7	39
5+25 S	-7.6	-13.2	3.61	31.0	13
5+00 S	0.0	-7.1	3.61	27.6	53

4+75	S	5.8	-5.1	3.81	41.8	32
4+50	S	11.2	-4.7	3.97	41.3	32
4+25	S	14.9	-4.9	4.13	31.7	23
4+00	S	18.6	-3.9	4.27	32.0	33
3+75	S	23.1	-3.6	4.39	38.2	23
3+50	S	24.8	-3.5	4.52	35.1	12
2+75	S	33.0	-4.1	4.99	31.1	45
3+00	S	41.1	-3.0	5.24	40.2	22
2+75	S	47.9	-2.0	5.57	27.4	22
2+50	S	56.0	-5.6	6.01	32.0	42
2+25	S	77.8	-7.3	7.16	25.6	22
2+00	S	-33.7	-36.1	34.11	32.6RAIL	2
1+75	S	0.0	3.6	7.76	23.0POND	23
1+50	S	0.0	2.7	7.62	19.2ROAD	15
1+25	S	-3.0	4.7	6.63	17.6	6
1+00	S	9.3	14.9	6.03	23.7	34
0+75	S	37.6	43.6	5.55	25.8TEL	33
0+50	S	-67.9	-51.1	6.22	30.1HYDR	35
0+25	S	-36.4	-11.8	5.79	26.2	29
0+00	N	-21.2	-2.7	5.31	26.8	23

Line 10+00 E Date 15 Jan 87 24.8 #59

POSITION		I/P	QUAD	T.FLD	DIR	CULT	S
0+00	N	9.8	-6.0	5.45	20.6		29
0+25	S	11.6	-6.0	5.33	18.5		24
0+50	S	31.7	-1.2	6.06	21.6HYDR		39
0+75	S	61.8	7.5	6.19	20.8HYDR		44
1+00	S	-39.0	-87.8	6.36	22.7HYDR		11
1+25	S	-14.0	-24.5	6.74	22.9		14
1+50	S	-3.9	-12.6	7.35	20.6		26
1+75	S	-2.4	-12.0	7.22	16.4ROAD		55
2+00	S	34.9	-16.8	7.03	20.8RAIL		49
2+25	S	-142.9	15.9	13.41	23.6RAIL		11
2+50	S	-66.0	6.6	6.68	14.3		54
2+75	S	-45.2	4.4	6.24	31.1		22
3+00	S	-39.6	0.7	6.01	33.4		32
3+25	S	-37.5	1.0	5.89	36.1		32
3+50	S	-29.6	2.2	5.67	33.2		12
3+75	S	-25.0	4.3	5.54	30.6		33
4+00	S	-22.4	5.2	5.49	30.8		13
4+00	S	-15.4	5.7	5.30	37.2		23
4+25	S	-12.6	5.1	5.15	29.3		23
4+50	S	-7.1	6.7	4.89	22.5		19
4+75	S	-4.6	8.0	4.75	33.8		13
5+00	S	-4.4	5.6	4.79	33.8		33
5+25	S	-0.5	6.5	4.65	33.6		23
5+50	S	5.5	8.7	4.61	23.2		43
5+75	S	8.8	8.6	4.76	14.6		44
6+00	S	9.1	6.7	5.55	33.3		39
6+25	S	15.3	5.8	5.07	18.8		45
6+50	S	15.9	4.8	5.66	17.6		54
6+75	S	-2.4	-1.9	6.08	24.7		14
7+00	S	-17.4	-3.7	6.58	25.2		23
7+25	S	-22.0	-3.4	5.83	28.3		33
7+50	S	-11.2	0.7	5.49	21.8		23
7+75	S	-10.2	-1.5	5.52	37.3		23
8+00	S	-0.9	0.2	5.21	31.0		63

Line 11+00 E Date 15 JAN 87 24.8 #93

POSITION		I/P	QUAD	T.FLD	DIR	CULT	S
8+00	S	-22.1	-4.3	6.48	22.4		33
7+75	S	-34.4	-14.4	5.56	19.8		34
7+50	S	-20.5	-0.3	5.53	18.9		33
7+25	S	-29.2	-14.4	4.84	14.3		23
7+00	S	-20.6	-4.9	4.68	18.0		23
6+75	S	-14.6	-1.5	4.69	16.1		23

6+50 S	-11.0	-0.5	4.69	11.8		14
6+25 S	-9.0	-0.8	4.78	16.6		44
6+00 S	-8.0	-4.1	4.69	18.6		34
5+75 S	-5.9	-5.7	4.62	5.8		34
5+50 S	-0.7	-3.5	4.61	19.8		24
5+25 S	3.5	-2.4	4.66	17.0		25
5+00 S	7.2	-2.0	4.66	20.4		13
4+75 S	10.0	-1.0	4.71	9.8		14
4+50 S	16.0	-1.2	4.76	24.7		33
4+25 S	18.7	-0.4	4.80	20.5		34
4+00 S	22.4	0.5	4.85	22.3		29
3+75 S	25.9	2.6	4.94	21.8		39
3+50 S	30.6	4.8	4.98	35.3		29
3+25 S	37.1	5.6	5.25	25.1		34
3+00 S	38.9	2.3	5.57	23.8		42
2+75 S	49.1	1.2	5.92	22.2		39
2+50 S	69.9	6.2	7.89	29.3	ROAD	22
2+25 S	-87.4	-9.9	31.32	10.0	RAIL	12
2+00 S	-41.0	-14.6	6.38	5.3		32
1+75 S	-27.3	-10.8	6.43	13.1		39
1+50 S	-29.8	-10.2	6.15	17.0		24
1+25 S	-27.6	-9.0	5.84	17.1		27
1+00 S	-29.1	-11.2	5.42	22.6		13
0+75 S	-24.2	-8.9	5.05	17.3		24
0+50 S	-17.3	-7.1	4.85	18.4		39
0+25 S	-12.7	-4.8	4.66	20.0		9
0+00 N	-11.5	-26.4	4.77	30.2		14

Line 12+00 E Date 15 JAN 87 24.8 #126

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S
0+00 N	5.9	0.1	4.62	24.8		34
0+25 S	10.0	1.6	4.65	27.4		43
0+50 S	15.2	3.3	4.83	24.2		43
0+75 S	19.0	4.4	5.10	14.9		23
1+00 S	20.1	5.4	5.22	22.9		33
1+25 S	23.4	7.2	5.66	5.6		34
1+50 S	20.7	4.8	5.96	15.2		44
1+75 S	21.9	5.0	6.05	14.8		13
2+00 S	19.7	4.0	6.42	20.4		44
2+25 S	8.7	-4.3	6.11	19.4		24
2+25 S	49.3	3.3	6.41	18.8		53
2+50 S	-185.2	-25.4	9.69	27.7	RAIL	29
2+75 S	-39.2	2.0	5.57	-1.9	ROAD	28
3+00 S	-26.4	-1.4	4.32	30.5		34
3+25 S	-15.4	5.7	4.29	25.2		44
3+50 S	-9.6	8.5	4.56	20.5		4
3+75 S	-13.4	4.5	4.56	24.7		35
4+00 S	-15.3	2.0	4.46	19.4		36
4+25 S	-16.9	0.2	4.23	20.5		19
4+50 S	-15.1	1.4	4.06	16.7		19
4+75 S	-12.8	3.1	3.95	-3.2		37
5+00 S	-9.5	5.7	3.95	16.5		45
5+50 S	-2.9	12.2	3.97	6.0		25
5+75 S	7.3	16.5	4.50	12.1		44
6+00 S	-6.2	1.1	4.66	5.2		56
6+25 S	-8.7	-5.5	4.30	9.2		55
6+50 S	-3.4	-0.7	4.30	15.6		45
6+75 S	-1.0	1.9	4.37	7.1		45
7+00 S	0.4	2.0	4.45	8.4		34
7+25 S	3.0	5.2	4.51	-3.6		44
7+50 S	5.9	6.2	4.64	0.4		44
7+75 S	10.2	12.1	4.85	6.9		34
8+00 S	13.1	17.0	5.65	9.6		44

Line 13+00 E Date 15 JAN 87 24.8 #159

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S

8+00	S	28.2	-3.6	4.93	16.1	43
7+75	S	29.6	-1.0	5.96	12.4	23
7+50	S	11.3	-5.9	5.66	24.1	23
7+25	S	14.9	-2.7	5.17	10.0	24
7+00	S	11.3	-1.6	5.03	6.3	24
6+75	S	12.7	0.5	4.88	19.7	23
6+50	S	15.4	3.1	5.01	9.5	24
6+25	S	9.8	-0.6	4.95	23.1	3
6+00	S	2.9	-3.5	4.97	24.3	24
5+75	S	2.4	-3.8	4.95	16.3	14
5+50	S	2.2	-5.6	4.54	27.2	24
5+25	S	6.4	-2.1	4.58	25.6	33
5+00	S	6.4	-0.7	4.68	27.5	33
4+75	S	8.6	1.5	4.83	23.3	13
4+50	S	11.1	4.3	5.05	27.3	33
4+25	S	7.4	3.8	5.44	27.3	13
4+00	S	3.1	6.2	5.88	32.8	33
3+75	S	-4.3	7.9	5.83	35.9	24
3+50	S	2.3	8.9	5.34	32.5	63
3+25	S	8.0	5.2	5.14	32.2ROAD	33
3+00	S	17.0	3.7	5.14	30.0ROAD	13
2+75	S	32.5	11.1	5.12	31.2	32
2+50	S	106.1	34.9	7.44	30.3	11
2+25	S	-66.0	-7.9	7.10	16.1RAIL	19
2+00	S	-21.9	5.1	6.01	21.8	56
1+75	S	-22.9	1.3	5.98	21.1	39
1+50	S	-23.2	0.0	5.55	35.4	45
1+25	S	-20.2	0.1	5.27	24.2	39
1+00	S	-19.4	0.0	5.01	19.6	9
0+50	S	-12.8	2.3	4.53	12.1	19
0+25	S	-11.0	6.7	4.47	24.6	34
0+00	N	2.8	18.8	5.15	4.7	34
0+25	N	21.5	29.6	5.28	12.4	43

Line 14+00 E Date 15 JAN 87 24.8 #192

POSITION		I/P	QUAD	T.FLD	DIR	CULT	S
0+25	N	11.6	-5.5	4.65	13.0		44
0+50	S	15.0	-1.2	4.78	16.9		33
0+75	S	19.2	3.0	4.98	14.4		14
1+00	S	22.5	3.6	5.08	12.3		64
1+25	S	26.0	4.3	5.16	17.9		23
1+50	S	32.6	5.8	5.40	14.0		23
1+75	S	37.1	4.8	5.78	7.5		43
2+00	S	139.7	49.1	9.54	18.2		39
2+25	S	-55.1	-16.1	4.69	27.3		29
2+50	S	-19.9	1.3	4.25	15.6		34
2+75	S	-15.0	0.9	3.91	25.0		24
3+00	S	-1.2	3.2	3.74	7.0		33

EOF

OMNI-PLUS Tie-line MAG/VLF Ser #218035
VLF DATA
Date 16 JAN 87
Operator: 5001
Records: 194
Bat: 16.1 Volt   Lithium: 3.46 Volt
Last time update: 1/11 12:27:00
Start of print: 1/16 16:19:49

#1	71.2	0.1	2882.	11.0	99

Line 14+00 E Date 16 JAN 87 24.8 #2

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
3+50 S	13.4	2.3	6.03	20.8	43

Line 14+00 E Date 16 JAN 87 24.8 #3

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
3+75 S	26.0	5.5	7.34	10.2	43
4+00 S	-5.7	4.8	7.98	10.2	19
4+25 S	-14.6	7.1	6.40	13.0	29
4+50 S	-16.5	7.4	6.11	15.7	49
4+75 S	-16.4	5.8	5.66	17.1	39
5+00 S	-10.3	7.0	5.47	20.3	45
5+25 S	-9.1	6.1	5.61	17.8	49
5+50 S	-8.5	5.6	5.70	19.5	29
5+75 S	-7.5	5.0	5.80	16.4	39
6+00 S	-8.2	4.9	5.88	25.4	39
6+25 S	-7.9	4.7	6.02	15.1	29
6+50 S	-8.6	4.6	6.09	22.9	39
6+75 S	-9.5	5.3	6.34	18.1	39
7+00 S	-15.7	4.5	6.25	15.9	29
7+25 S	-17.4	5.2	6.20	16.7	29
7+50 S	-12.7	7.4	6.38	17.4	39
7+75 S	-32.4	1.2	6.59	28.7	29
8+00 S	-28.2	3.7	6.21	23.4	29

Line 15+00 E Date 16 JAN 87 24.8 #21

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
8+00 S	13.8	5.4	6.61	31.0	23

Line 16+00 E Date 16 JAN 87 24.8 #22

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
8+00 S	-11.2	6.6	5.64	31.7	29
7+75 S	-12.0	8.2	5.81	35.4	29
7+50 S	-9.9	8.4	5.89	27.8	29
7+25 S	-11.3	7.2	5.78	29.5	39
7+00 S	-6.6	9.1	5.70	28.0	29
6+75 S	-8.1	7.6	5.72	25.8	19
6+50 S	-5.8	7.6	5.66	26.7	39
6+25 S	-5.5	6.3	5.69	27.6	39
6+00 S	-7.0	5.3	5.65	24.8	28
5+75 S	-9.3	3.1	6.09	25.8	29
5+50 S	-21.2	-6.6	5.40	20.7	19
5+25 S	-13.1	-3.3	4.92	20.2	29
5+00 S	-6.5	-1.2	4.82	16.2	29
4+75 S	-0.9	-1.1	4.89	18.0	19

4+50 S	3.8	-1.7	4.91	15.9		15
4+25 S	8.9	-1.4	5.03	19.8		25
4+00 S	15.3	-0.8	5.00	17.1		23
3+75 S	24.1	0.1	5.22	16.1		23
3+50 S	29.0	-1.0	5.55	18.5		22
3+25 S	43.9	0.7	6.79	18.9	ROAD	22
3+00 S	33.0	-1.3	7.85	-1.9		33
2+75 S	2.9	-4.8	7.31	8.3		39
2+50 S	-2.1	-6.8	6.32	17.7		39
2+25 S	5.7	-4.4	6.13	17.7		16
2+00 S	8.6	-2.9	6.44	18.2		45
1+75 S	6.5	-2.9	6.75	15.8		45
1+50 S	-0.6	-3.3	6.77	9.1		49
1+25 S	-4.3	-1.8	6.46	10.1	TEL	49
1+00 S	-32.4	-24.1	8.49	42.1	RAIL	29

Line 15+00 E Date 16 JAN 87 24.8 #51

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S
1+50 S	-43.6	-18.4	7.44	11.1		29
1+25 S	-25.4	-8.3	6.15	11.0		29
1+00 S	-18.3	-3.0	5.88	10.8		49
0+75 S	-15.0	0.8	5.69	13.7		59
0+50 S	-12.4	4.5	5.51	12.3		19
0+25 S	-10.1	10.4	5.43	16.7		29
0+00 N	7.2	59.7	6.29	16.2		23

Line 16+00 E Date 16 JAN 87 24.8 #58

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S
0+00 N	2.9	-50.2	6.52	15.0		45
0+25 S	14.7	-3.7	5.98	16.4		33
0+50 S	16.8	3.8	6.21	20.5		23
0+75 S	21.7	11.0	6.52	22.9	RAIL	44

Line 15+00 E Date 16 JAN 87 24.8 #62

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S
1+75 S	-83.7	-13.2	22.22	-14.0	RAIL	29
2+00 S	-44.3	-3.2	6.31	24.7		69
2+25 S	-21.3	4.5	5.65	20.8		49
2+50 S	-18.9	2.6	6.02	14.3		29
2+75 S	-13.2	4.3	5.60	20.2		26
3+00 S	-4.8	5.1	5.28	22.3		46
3+25 S	10.3	9.2	5.39	20.0	ROAD	15
3+50 S	12.0	6.2	5.78	17.3	ROAD	34
3+75 S	7.7	5.7	6.38	10.7		35
4+00 S	-4.9	7.7	6.67	17.1		39
4+25 S	-14.3	9.7	6.31	25.1		49
4+50 S	-19.4	20.0	6.13	26.0		29
4+75 S	-24.1	8.3	5.90	27.3		29
5+00 S	-29.4	4.5	5.52	24.1		19
5+25 S	-20.9	4.9	5.13	26.2		29
5+50 S	-14.8	4.6	5.37	24.8		19
5+75 S	-12.5	4.0	5.50	21.8		29
6+00 S	-11.2	3.2	5.16	24.6		19
6+25 S	-10.1	2.3	5.05	5.0		39
6+50 S	-8.9	0.9	5.26	17.0		39
6+75 S	-8.2	1.2	5.23	17.5		39
7+00 S	-13.2	0.8	5.68	14.9		39
7+25 S	-13.5	1.0	5.39	22.7		29
7+50 S	-13.9	1.7	6.02	22.4		29
7+75 S	-23.4	-0.7	5.76	28.5		39
8+00 S	-27.0	-1.5	5.59	32.0		39

Line 17+00 E Date 16 JAN 87 24.8 #88

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S
7+75 S	-23.4	5.1	4.58	27.7		19
7+50 S	-17.0	8.5	4.43	28.2		15

7+25	S	-13.4	8.5	4.43	22.6	19
7+00	S	-10.0	9.3	4.43	24.5	19
6+75	S	-10.7	7.0	4.40	25.2	29
6+50	S	-7.9	8.6	4.32	27.1	19
6+25	S	-13.5	0.6	4.42	25.3	19
6+00	S	-8.0	3.8	4.24	26.2	29
5+75	S	-2.8	5.3	4.50	23.6	29
5+50	S	-3.6	0.1	4.30	19.4	19
5+25	S	0.9	1.1	4.19	17.7	36
5+00	S	6.4	1.8	4.15	15.7	53
4+75	S	11.8	2.9	4.20	10.0	33
4+50	S	15.1	2.0	4.26	18.7	43
4+25	S	19.3	0.4	4.38	13.1	43
4+00	S	24.4	1.1	4.44	4.6	33
3+75	S	29.0	1.6	4.70	17.2	42
3+50	S	35.1	1.6	4.97	38.7	32
3+25	S	42.3	2.6	5.42	29.8	42
3+00	S	42.6	1.6	8.54	15.9ROAD	22
2+75	S	12.8	-4.4	6.48	23.8	34
2+50	S	6.2	-3.8	6.82	12.7	26
2+25	S	-14.6	-10.0	6.01	18.3	29
2+00	S	-10.5	-7.7	5.30	19.7	39
1+75	S	-8.2	-8.0	4.93	20.9	19
1+50	S	-3.3	-7.0	4.67	16.9	25
1+25	S	4.2	-5.9	4.55	15.8	15
1+00	S	10.9	-4.7	4.38	8.3	33
0+75	S	18.7	-2.3	4.31	6.9	33
0+50	S	12.1	-2.3	4.68	-6.7	23
0+25	S	0.6	2.6	5.09	0.4	45
0+00	N	0.9	39.3	5.32	9.2	53

Line 18+00 E Date 16 JAN 87 24.8 #120

POSITION		I/P	QUAD	T.FLD	DIR	CULT S
0+00	N	-45.6	-45.7	5.83	13.0	29
0+25	S	-26.4	-3.7	4.33	18.0	49
0+50	S	-17.4	4.0	4.10	17.9	29
0+75	S	-9.4	9.3	3.99	20.3	28
1+00	S	-6.0	6.8	3.87	22.9	34
1+25	S	-2.8	6.1	4.12	31.3	25
1+50	S	-1.3	6.9	3.70	21.9	44
1+75	S	5.8	7.8	3.88	7.0	24
2+00	S	13.5	11.6	4.11	20.0	43
2+25	S	20.5	14.2	4.44	23.0	23
2+50	S	28.2	14.5	5.02	20.7	23
2+75	S	29.8	10.9	6.16	24.4ROAD	23
3+00	S	14.2	8.0	8.00	17.8	34
3+25	S	-21.2	6.2	7.17	17.2	39
3+50	S	-33.9	8.2	6.03	17.1	19
3+75	S	-60.6	-9.4	5.58	25.0	29
4+00	S	-43.7	-6.2	4.40	19.8	19
4+25	S	-34.0	-3.9	4.12	24.5	29
4+50	S	-25.1	-2.3	4.03	17.3	29
4+75	S	-20.0	-1.8	3.85	14.1	48
5+00	S	-14.2	-1.7	3.76	21.5	35
5+25	S	-8.0	-1.1	3.75	9.2	46
5+50	S	-4.4	-1.4	3.88	23.8	34
5+75	S	0.0	-0.4	3.92	34.1	33
6+00	S	0.7	-1.2	3.92	30.8	43
6+25	S	5.2	-0.7	3.97	33.9	53
6+50	S	10.6	-0.2	4.15	21.0	43
6+75	S	11.6	-0.5	4.23	16.8	34
7+00	S	10.2	-5.0	4.34	23.4	13
7+25	S	11.8	-7.1	4.18	19.5	33
7+50	S	17.5	-3.6	4.11	21.4	33
7+75	S	25.8	-0.4	4.18	18.9	22
8+00	S	27.5	0.0	4.31	20.8	42

Line 19+00 E Date 16 JAN 87 24.8 #153

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
7+75 S	-20.6	11.1	4.25	21.5	39
7+50 S	-17.0	9.1	4.27	20.2	19
7+25 S	-12.6	8.7	4.20	20.3	45
7+00 S	-9.2	7.7	4.41	17.6	19
6+75 S	-12.6	4.1	4.18	19.6	35
6+50 S	-8.1	4.5	4.14	20.9	19
6+25 S	-7.8	3.7	4.09	22.1	19
6+00 S	-4.6	4.2	4.01	22.6	53
5+75 S	0.5	4.1	4.10	17.5	25
5+50 S	6.0	5.1	3.98	23.8	23
5+25 S	10.2	5.5	4.06	23.5	33
5+00 S	17.8	7.1	4.07	20.6	33
4+75 S	23.6	7.7	4.11	20.4	33
4+50 S	32.6	8.8	4.26	23.5	42
4+25 S	43.8	11.1	4.55	19.6	42
4+00 S	56.4	17.2	4.92	16.2	32
3+75 S	58.7	0.2	7.04	18.0	12
3+50 S	34.2	-6.2	8.14	15.9	33
3+25 S	12.1	-4.7	7.97	13.1	25
3+00 S	-3.5	-1.9	7.36	12.7	46
2+75 S	-12.0	0.9	6.67	12.3	39
2+50 S	-20.3	0.7	6.79	8.7ROAD	49
2+25 S	-51.8	-21.9	5.97	13.1ROAD	39
2+00 S	-29.1	-18.7	4.79	20.6	56
1+75 S	-16.8	-11.6	4.56	18.1	44
1+50 S	-6.7	-9.4	4.49	15.4	26
1+25 S	0.0	-7.3	4.42	20.1	44
1+00 S	7.2	-4.5	4.38	18.8	33
0+75 S	14.0	-2.2	4.41	15.4	23
0+50 S	18.2	-0.5	4.40	19.2	34
0+25 S	22.9	1.7	4.51	15.4	53
0+25 N	28.8	6.6	4.71	22.0	22
0+50 N	25.0	-4.4	7.56	5.0BASE	4

Line 20+00 E Date 16 JAN 87 24.8 #186

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
0+00 N	-8.0	9.2	6.44	17.3	34
0+25 S	-2.8	9.1	4.57	27.6	53
0+50 S	3.3	9.4	4.88	29.0	33
0+75 S	4.4	7.9	5.02	20.4	24
1+00 S	5.4	7.2	4.95	22.0	14
1+25 S	7.9	6.6	4.98	26.3	43
1+50 S	8.1	4.4	5.02	28.6	33
1+50 S	8.3	4.2	5.09	25.0ROAD	53
1+75 S	4.3	3.3	5.28	23.2ROAD	15

EOF

OMNI-PLUS Tie-line MAG/VLF Ser #218035
VLF DATA
Date 17 JAN 87
Operator: 5001
Records: 180
Bat: 16.7 Volt   Lithium: 3.48 Volt
Last time update: 1/11 12:27:00
Start of print: 1/17 19:39:27

#1	71.1	0.1	2898.	11.0	99

Line 20+00 E Date 17 JAN 87 24.8 #2

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
2+00 S	2.0	-0.3	6.76	7.7	39

Line 20+00 E Date 17 JAN 87 24.8 #3

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
2+25 S	1.4	-2.6	6.54	8.9	29
2+50 S	6.0	-4.3	6.65	16.3	44
2+75 S	13.1	-4.6	7.37	23.3	34
3+00 S	11.9	-2.3	8.47	17.9	44
3+25 S	4.8	0.5	9.33	20.9	26
3+50 S	-5.9	4.1	9.70	19.9	39
3+75 S	-20.5	7.3	9.91	18.8	59
4+00 S	-74.6	-29.8	6.21	26.3	39
4+75 S	-47.4	-16.1	4.96	22.5	39
5+00 S	-34.9	-12.7	4.62	22.4	29
5+25 S	-25.1	-8.2	4.47	24.2	39
5+50 S	-17.2	-5.9	4.51	22.3	39
5+75 S	-11.0	-5.5	4.60	22.8	34
6+00 S	-6.0	-2.9	4.64	22.2	44
6+25 S	-0.1	-2.6	4.72	19.8	35
6+50 S	4.6	-1.0	4.70	14.1	26
6+75 S	8.4	0.4	4.78	16.3	24
7+00 S	12.9	1.5	4.96	22.8	33
7+25 S	16.1	1.8	5.34	15.6	33
7+50 S	4.6	-6.1	5.42	15.9	28
7+75 S	3.5	-12.8	4.72	16.7	18
8+00 S	15.6	-6.2	4.70	30.0LAKE	33
8+25 S	-23.4	7.1	4.77	18.1LAKE	19

Line 21+00 E Date 17 JAN 87 24.8 #26

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
8+00 S	-22.6	7.5	4.67	25.5	29
7+50 S	-26.6	8.1	4.53	21.5	32
7+25 S	-14.4	5.7	5.04	21.1	29
7+00 S	-10.0	2.9	4.88	15.8	29
6+50 S	-6.6	1.8	4.90	15.8	29
6+25 S	-3.9	2.6	4.87	16.5	29
6+00 S	0.0	2.9	4.94	19.5	54
5+75 S	2.8	4.3	4.99	15.8	35
5+50 S	7.1	4.7	5.18	16.8	15
5+25 S	8.0	4.7	5.38	21.6	24
5+00 S	7.6	4.5	5.75	19.3	44
4+75 S	5.9	3.4	5.83	13.4	34

4+50 S	8.5	2.9	5.99	13.6		34
4+25 S	12.1	4.4	6.45	11.3		25
4+00 S	13.2	4.2	7.40	15.0		16
3+75 S	-7.4	-1.4	8.03	13.5		39
3+50 S	-13.7	-0.5	6.86	12.4		49
3+25 S	-13.6	0.7	6.36	11.6		66
3+00 S	-10.2	1.4	5.98	12.7		39
2+75 S	-8.2	1.4	5.62	10.0		66
2+50 S	3.3	7.3	5.26	11.8		45
2+25 S	10.2	6.9	5.61	9.3		24
2+00 S	12.7	2.7	5.78	-0.9		44
1+75 S	17.0	0.4	5.66	6.6		23
1+50 S	25.5	2.9	5.98	-6.4		23
1+25 S	25.8	0.2	7.00	2.3	ROAD	22
1+00 S	4.6	-5.5	6.53	8.0		37
0+75 S	4.0	-4.2	6.92	11.1		39
0+50 S	1.1	-5.3	6.91	11.2		39
0+25 S	-10.4	-5.9	6.49	-0.2	BASE	48

Line 22+00 E Date 17 JAN 87 24.8 #56

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S
0+00 N	-8.9	7.6	6.46	11.6		49
0+25 S	-1.2	11.1	6.37	4.2	ROAD	47
0+50 S	-5.1	7.1	6.55	12.6	ROAD	39
0+75 S	-7.5	5.2	7.03	6.9		49
1+00 S	0.4	7.5	7.79	10.2		49
1+25 S	-30.9	-2.6	6.82	11.1		39
1+50 S	-26.1	-4.5	5.80	16.1		29
1+75 S	-13.5	3.9	5.49	12.3		19
2+00 S	-13.0	0.7	5.68	15.1		39
2+25 S	-9.4	-0.8	5.89	18.1		46
2+50 S	-17.9	-12.6	5.78	16.3		65
2+75 S	-6.7	-7.2	5.55	18.3		45
3+00 S	2.3	-1.1	5.57	19.3		23
3+25 S	7.3	0.8	5.89	16.7		45
3+50 S	12.0	4.0	6.33	15.0		34
3+75 S	13.4	4.1	6.98	16.3		34
4+00 S	6.0	2.8	7.96	19.0		44
4+25 S	-14.7	-3.5	7.43	19.8		49
4+50 S	-14.0	-1.8	6.53	23.5		43
4+75 S	-10.2	-1.1	6.32	14.1		29
5+00 S	-8.5	-1.0	6.12	19.6		49
5+25 S	-6.8	-0.9	5.98	17.1		39
5+50 S	-2.1	0.3	5.79	17.8		38
5+75 S	0.5	1.5	5.83	12.3		16
6+00 S	1.4	1.7	5.86	15.0		19
6+25 S	1.1	2.0	5.77	15.1		35
6+50 S	3.6	0.7	5.57	16.3		23
6+75 S	6.6	0.2	5.47	14.9		62
7+00 S	9.4	-1.6	5.46	15.3		54
7+25 S	17.1	2.2	5.63	17.4		53
7+50 S	20.6	2.0	6.10	18.2		33
7+75 S	18.4	-2.0	6.07	11.5	LAKE	23

Line 23+00 E Date 17 JAN 87 24.8 #88

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S
7+75 S	-18.0	-0.6	5.67	-16.6		29
7+50 S	-16.1	-0.6	5.41	-23.6		33
7+25 S	-9.8	0.0	5.32	-14.5		28
6+75 S	-2.9	2.0	5.20	21.3		33
6+50 S	3.0	3.5	5.31	15.3		37
6+25 S	9.3	4.3	5.39	18.2		24
6+00 S	22.7	11.6	5.88	11.3		33
5+75 S	5.7	-1.7	6.36	5.9		22
5+50 S	1.3	-2.7	6.21	11.2		44
5+25 S	0.5	-1.4	5.96	11.7		41

5+00	S	5.2	-0.1	6.46	12.9	64
4+75	S	4.8	0.3	6.71	14.8	15
4+50	S	4.6	1.1	7.15	15.5	25
4+25	S	2.1	1.9	7.92	8.5	49
4+00	S	-14.0	-2.1	7.37	13.4	39
3+75	S	-15.0	0.1	6.63	22.7	65
3+50	S	-13.6	0.7	6.15	25.7	15
3+25	S	-8.9	2.8	5.81	23.0	32
3+00	S	-6.0	4.3	5.79	25.7	23
2+75	S	0.0	5.8	5.73	21.5	35
2+50	S	6.9	8.2	5.71	20.8	25
2+25	S	11.5	8.1	5.91	19.2	34
2+00	S	16.0	7.8	6.01	23.5	23
1+75	S	19.6	6.0	6.16	16.6	43
1+50	S	25.2	5.6	6.40	17.3	32
1+25	S	26.7	5.2	7.17	18.1	54
1+00	S	19.4	1.0	7.90	10.6	34
0+75	S	11.0	-2.0	7.36	19.1	24
0+50	S	11.3	-0.6	7.01	14.9	44
0+25	S	15.7	0.1	8.05	9.7	14
0+00	N	-1.4	-5.0	7.60	19.4BASE	45

Line 24+00 E Date 17 JAN 87 24.8 #119

POSITION		I/P	QUAD	T.FLD	DIR	CULT S
0+00	N	0.0	6.1	7.83	11.3BASE	76
0+25	S	-26.0	-2.9	7.27	17.9	44
0+50	S	-12.6	4.2	6.84	11.5	39
0+75	S	-7.9	7.1	7.38	15.1	46
1+00	S	-23.4	-0.3	7.78	17.4	49
1+25	S	-40.3	-13.5	6.71	15.5	29
1+50	S	-25.9	-7.3	5.90	21.3	29
1+75	S	-17.9	-3.3	5.73	15.4	45
2+00	S	-11.9	-2.4	5.69	21.4	65
2+25	S	-7.8	-4.0	5.77	25.6	54
2+50	S	-0.9	-4.7	5.63	20.3	45
2+75	S	11.2	1.1	5.78	21.6	53
3+00	S	16.4	4.3	6.09	20.3	33
3+25	S	25.2	7.5	6.57	16.7	43
3+50	S	26.3	7.6	7.56	23.7	53
3+75	S	17.8	5.1	8.75	22.8	43
4+00	S	4.9	2.7	9.37	13.4	39
4+25	S	-11.7	1.8	9.13	13.1	59
4+50	S	-26.5	-1.7	8.11	9.2	49
4+75	S	-31.0	-3.3	7.43	10.6	39
5+00	S	-33.3	-5.1	6.80	15.1	46
5+25	S	-28.2	-6.8	5.97	18.0	39
5+50	S	-20.4	-3.2	5.79	16.4	39
5+75	S	-12.4	0.2	5.56	19.0	64
6+00	S	-4.3	4.9	5.55	15.1	54
6+25	S	-0.9	5.1	5.64	20.2	45
6+50	S	-1.1	1.6	5.67	6.9	47
6+75	S	2.9	2.0	5.60	11.3	44
7+00	S	8.1	4.3	5.73	15.0	54

Line 25+00 E Date 17 JAN 87 24.8 #148

POSITION		I/P	QUAD	T.FLD	DIR	CULT S
8+00	S	-13.0	-3.0	6.34	10.5	29
7+75	S	-11.5	-3.7	6.05	15.5	37
7+50	S	-8.3	-1.8	5.88	22.3	45
7+25	S	-5.5	0.0	5.86	22.9	34
7+00	S	-4.0	-0.2	5.90	14.9	45
6+75	S	-2.7	-1.1	5.76	18.7	45
6+50	S	2.9	1.0	5.74	23.2	44
6+25	S	6.8	1.8	5.70	18.4	33
6+00	S	13.2	5.0	5.88	21.6	63
5+75	S	17.6	4.3	5.98	23.5	52

5+50	S	18.2	1.7	6.20	22.5		23
5+25	S	28.2	8.0	6.69	21.4		43
5+00	S	32.7	5.5	7.80	21.0		43
4+75	S	20.5	-1.0	8.72	13.5		34
4+50	S	11.9	-0.9	9.32	19.8		23
4+25	S	-0.8	-0.6	9.52	12.2		48
4+00	S	-15.7	-2.1	8.89	13.2		27
3+75	S	-26.8	-6.4	7.86	15.8		32
3+50	S	-25.2	-11.1	6.81	11.6		49
3+25	S	-18.0	-7.6	6.29	17.8		39
3+00	S	-13.4	-2.9	6.11	19.2		29
2+75	S	-7.7	0.3	5.85	17.1		49
2+50	S	-0.4	5.0	5.90	19.5		35
2+25	S	4.2	5.4	6.43	23.7		34
2+00	S	8.4	6.9	6.30	21.4		54
1+75	S	11.6	5.7	6.63	22.3		54
1+50	S	7.8	4.1	6.38	23.9		43
1+25	S	16.9	6.9	6.43	25.0		33
1+00	S	15.7	5.0	6.77	20.2		54
0+75	S	7.3	2.3	7.31	19.0		34
0+50	S	8.7	2.9	6.61	22.1		24
0+25	S	3.2	-1.3	6.83	14.0		35
0+00	N	4.3	-0.1	6.56	16.4	BASE	54

EOF

OMNI-PLUS Tie-line MAG/VLF Ser #218035
VLF DATA
Date 19 JAN 87
Operator: 5001
Records: 152
Bat: 16.1 Volt Lithium: 3.46 Volt
Last time update: 1/11 12:27:00
Start of print: 1/19 16:25:26

#1 71.1 0.1 2903. 11.0 99

Line 5+00 E Date 19 JAN 87 24.8 #2

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
0+75 S	4.1	0.0	6.74	2.3	34

Line 5+00 E Date 19 JAN 87 24.8 #3

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
1+00 S	10.4	17.6	8.92	9.0	43
1+50 S	-101.7	3.6	9.45	14.1	19
1+75 S	-72.2	19.4	7.48	2.5	19
2+00 S	-55.0	19.0	6.76	14.5	49
2+25 S	-43.9	22.6	5.99	11.5	29
2+50 S	-41.0	20.2	5.68	21.1	44
2+75 S	-38.6	22.2	5.29	17.0	19
3+00 S	-34.9	21.2	5.11	24.1	29
3+25 S	-36.4	18.4	4.99	22.4	23
3+50 S	-29.9	16.0	4.74	25.3	24
3+75 S	-29.5	16.5	4.49	17.9	14
4+00 S	-31.4	15.7	4.16	24.2	31
4+25 S	-21.3	12.5	4.04	19.2	34
4+50 S	-22.3	11.9	3.77	21.8	31
4+75 S	-13.7	9.9	3.89	19.9	43
5+00 S	-13.7	5.9	3.83	18.7	22
5+25 S	-10.1	4.8	3.85	20.9	53
5+50 S	-7.9	2.2	3.85	18.3	23
5+75 S	-5.6	-0.1	3.64	14.4	51
6+00 S	-1.6	-0.1	3.86	16.8	42
6+25 S	2.3	-1.5	3.90	14.2	52
6+50 S	4.8	-1.9	3.99	14.9CLIF	3
6+75 S	13.6	-7.1	3.89	16.4	22
7+50 S	18.6	-7.6	3.85	20.7	21
7+75 S	20.5	-1.7	4.25	15.6	32
8+00 S	29.0	-3.8	4.19	24.4	31

Line 4+00 E Date 19 JAN 87 24.8 #29

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
8+00 S	-20.4	8.5	4.42	18.5	43
7+75 S	-14.8	7.9	4.36	15.1	49
7+50 S	-12.3	7.8	4.27	19.1	26
7+25 S	-10.2	7.9	4.22	19.6	33
7+00 S	-7.1	5.1	4.12	24.4	26
6+75 S	-4.7	3.2	4.05	23.0	24
6+50 S	-2.6	2.2	4.00	21.7	62
6+25 S	0.4	2.3	3.97	16.6	33
6+00 S	3.2	1.9	3.88	21.7	32
5+75 S	2.7	0.5	3.71	16.6	31

5+50 S	7.0	-0.2	4.08	17.5	33
5+25 S	11.1	-1.5	4.20	28.9	32
5+00 S	13.4	-3.8	4.23	18.0	32
4+75 S	15.6	-4.8	4.39	20.4	22
4+50 S	18.9	-8.1	4.37	21.2	2
4+25 S	19.9	-9.4	4.56	19.8	42
4+00 S	24.1	-9.4	4.70	27.0	54
3+75 S	27.0	-11.6	4.81	18.8	23
3+50 S	31.1	-11.3	5.06	17.6	23
3+25 S	33.0	-13.5	5.22	18.0	52
3+00 S	33.8	-15.0	5.47	9.9	63
2+75 S	38.9	-19.2	5.47	16.6	21
2+50 S	39.2	-17.1	5.89	9.8	12
2+25 S	42.2	-19.7	6.11	14.3	32

Line 3+00 E Date 19 JAN 87 24.8 #53

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
2+25 S	-39.9	30.2	5.89	16.0	23
2+50 S	-43.0	27.9	5.67	15.9	52
2+75 S	-61.1	24.6	5.06	23.3	41
3+00 S	-38.0	18.7	4.95	21.4	44
3+25 S	-37.1	17.3	4.65	22.7	24
3+50 S	-32.3	15.5	4.47	20.8	43
3+75 S	-29.2	14.1	4.39	21.7	54
4+00 S	-26.7	13.5	4.23	21.7	33
4+25 S	-21.8	13.7	4.24	18.1	19
4+50 S	-21.2	8.8	4.27	22.2	42
4+75 S	-18.3	7.2	4.26	19.3	42
5+00 S	-14.9	7.1	4.29	17.6	33
5+25 S	-13.3	2.9	4.25	16.6	44
5+50 S	-10.1	3.5	4.29	18.2	34
5+75 S	-6.8	4.1	4.25	21.6	24
6+00 S	-4.3	2.3	4.31	17.5	32
6+25 S	-1.2	1.1	4.29	20.0	42
6+50 S	-0.4	0.1	4.21	16.1	41
6+75 S	2.2	-0.7	4.44	24.4	32
7+00 S	5.8	-0.9	4.54	16.1	52
7+25 S	8.5	-1.5	4.62	16.6	43
7+50 S	8.7	-6.0	4.70	23.2	33
7+75 S	11.1	-6.2	4.63	13.4	52
8+00 S	12.7	-7.1	4.75	2.2	22

Line 2+00 E Date 19 JAN 87 24.8 #77

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
8+00 S	-11.4	7.7	4.84	19.5	35
7+75 S	-12.7	4.0	4.68	16.9	33
7+50 S	-8.6	6.3	4.67	17.5	23
7+25 S	-7.4	4.4	4.67	25.4	34
7+00 S	-8.0	3.9	4.48	19.2	41
6+75 S	-2.3	3.6	4.60	22.3	23
6+50 S	0.0	2.7	4.58	20.5	24
6+25 S	1.9	2.1	4.60	25.4	23
6+00 S	3.3	0.4	4.51	23.4	3
5+75 S	7.2	0.1	4.45	24.0	12
5+50 S	9.6	0.0	4.48	17.8	13
5+25 S	11.7	-2.1	4.45	22.5	33
5+00 S	15.6	-3.1	4.48	20.9	23
4+75 S	18.1	-4.5	4.38	25.7	22
4+50 S	24.1	-6.7	4.19	15.5	51
4+25 S	23.0	-6.5	4.66	15.4	23
4+00 S	24.9	-10.5	4.73	20.1	32
3+75 S	29.0	-12.1	4.83	19.9	53
3+50 S	34.7	-10.2	4.97	24.5	12
3+25 S	39.6	-16.0	5.06	16.2	41
3+00 S	44.8	-13.1	5.44	21.4	42
2+75 S	55.8	-19.7	6.08	16.7	21

2+50 S	48.8	-22.9	6.40	19.7		45
2+25 S	53.2	-25.1	7.13	18.9		53
2+00 S	75.7	-34.8	8.51	19.6		32
1+75 S	113.4	-32.4	13.90	9.6		11
1+25 S	114.5	-30.4	13.99	11.5	RAIL	31

Line 1+00 E Date 19 JAN 87 24.8 #104

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S
1+25 S	-99.9	16.4	36.34	-7.4	RAIL	39
2+25 S	-106.9	51.2	9.77	15.7		59
2+50 S	-66.5	27.3	7.06	20.1		35
2+75 S	-60.5	21.8	6.20	23.5		19
3+00 S	-60.0	25.2	5.67	13.9		12
3+25 S	-53.2	23.5	5.13	18.9		31
3+50 S	-37.0	17.7	5.19	19.5		42
3+75 S	-31.2	18.4	4.99	23.1		42
4+00 S	-30.9	17.4	4.83	17.8		42
4+25 S	-27.2	10.4	4.90	22.5		44
4+50 S	-24.1	7.7	4.66	20.0		34
4+75 S	-20.7	7.9	4.55	22.7		14
5+00 S	-18.0	6.0	4.52	19.4		32
5+25 S	-14.1	5.8	4.45	19.4		52
5+50 S	-10.4	4.6	4.56	19.2		53
5+75 S	-9.4	5.0	4.26	22.5		21
6+00 S	-4.8	2.9	4.51	19.3		23
6+25 S	-2.2	1.9	4.52	18.2		63
6+50 S	0.9	1.1	4.51	18.2		53
6+75 S	1.4	0.6	4.57	13.3		9
7+00 S	5.6	-1.8	4.47	15.4		61
7+25 S	6.0	-2.1	4.77	18.9		54
7+50 S	8.6	-2.1	4.74	18.9		42
7+75 S	8.9	-4.1	4.82	20.8		52
8+00 S	11.0	-3.6	4.88	22.8		43

Line 0+00 E Date 19 JAN 87 24.8 #129

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S
8+00 S	-12.5	6.2	4.90	6.6		37
7+75 S	-11.1	5.3	4.86	20.8		23
7+50 S	-11.4	6.3	4.40	18.4		51
7+25 S	-6.3	5.0	4.78	25.1		33
7+00 S	-6.2	6.8	4.38	20.9		21
6+75 S	-3.0	2.2	4.67	19.9		44
6+50 S	-2.5	0.7	4.47	16.3		41
6+25 S	0.0	0.0	4.63	15.2		34
6+00 S	2.4	-1.1	4.41	17.1		32
5+75 S	6.4	-1.5	4.54	14.0		23
5+50 S	8.7	-2.4	4.34	16.9		31
5+25 S	12.0	-3.3	4.62	18.7		33
5+00 S	15.1	-4.2	4.44	17.9		31
4+75 S	17.9	-5.5	4.69	22.1		32
4+50 S	21.2	-6.5	4.70	21.5		44
4+25 S	26.9	-7.1	4.82	19.2		42
4+00 S	29.2	-9.2	4.98	15.6		32
3+75 S	33.6	-13.7	4.95	15.6		12
3+50 S	34.1	-15.0	5.19	15.5		23
3+25 S	41.5	-17.4	5.34	16.3		33
3+00 S	49.8	-18.5	5.65	19.2		32
2+75 S	60.5	-16.9	6.26	20.6		42
2+50 S	73.9	-16.1	7.44	23.1		32
2+25 S	83.4	-17.5	10.33	5.3		42

EOF

OMNI-PLUS Tie-line MAG/VLF Ser #218035
VLF DATA
Date 20 JAN 87
Operator: 5001
Records: 92
Bat: 17.0 Volt Lithium: 3.48 Volt
Last time update: 1/11 12:27:00
Start of print: 1/21 10:36:06

#1 71.3 0.2 2861. 12.0 99

Pos 0+00 N Date 20 JAN 87 24.8 #2

Tie-Line	I/P	QUAD	T.FLD	DIR	CULT	S
0+00TE	-10.9	4.2	4.46	-66.5		43

Pos 0+00 N Date 20 JAN 87 24.8 #3

Tie-Line	I/P	QUAD	T.FLD	DIR	CULT	S
0+25TE	-44.3	-5.0	4.28	-67.5		33
0+50TE	-74.9	-26.3	3.80	-59.9		33
0+75TE	-73.0	-60.2	2.92	-58.5		42
1+00TE	-255.7	-39.2	4.82	-79.9		11
1+25TE	99.1	-17.9	6.10	-86.5		22
1+50TE	-2.7	11.6	8.03	-87.3	HYDR	46
1+75TE	-103.8	93.3	6.06	87.3	HYDR	29
2+00TE	127.1	196.7	5.44	-69.6	HYDR	11
2+50TE	85.3	46.9	5.09	-69.0	HYDR	13
3+00TE	59.1	24.7	5.95	-75.8		54
3+25TE	44.6	16.3	6.23	-79.0		25
3+50TE	36.5	12.3	6.46	-76.6		54
3+75TE	28.5	9.9	6.43	-78.9		39
4+00TE	24.2	7.7	6.56	-79.6		44
5+00TE	53.1	28.3	5.53	-65.0		36
5+25TE	56.4	33.7	5.49	-63.8	HYDR	23
5+50TE	60.7	67.5	5.40	-59.8	HYDR	4
6+00TE	41.1	93.5	5.55	-51.2	TRAN	35
6+50TE	-59.0	97.7	7.12	74.8		33
7+00TE	68.7	73.3	5.94	-57.6		54
7+50TE	44.9	19.1	6.44	-60.7		48
7+75TE	38.1	14.0	6.47	-64.4		38
8+00TE	35.2	11.6	6.37	-63.3		37
8+25TE	34.8	11.6	6.14	-65.1		24
8+50TE	29.6	8.0	5.76	-68.3		29
8+75TE	25.7	6.5	5.58	-63.2		57
9+00TE	24.1	5.0	5.45	-60.9		45
9+25TE	20.1	2.4	5.30	-65.9		49
9+50TE	17.6	0.4	5.24	-58.6		47
9+75TE	15.4	-2.5	5.15	-66.4		66
10+00TE	12.0	-7.8	5.11	-62.0		49
10+25TE	10.4	-14.4	5.10	-70.0		55
10+50TE	3.6	-34.1	5.50	-64.1	HYDR	24
10+75TE	10.1	15.2	5.29	-67.7		44
11+00TE	16.0	21.2	5.58	-67.8	FENC	35
11+25TE	8.9	-7.6	5.35	-68.9		34
11+50TE	8.1	0.0	5.36	-72.4		45
11+75TE	6.8	-1.0	5.33	-71.3		25
12+00TE	6.2	-2.0	5.35	-66.0		16

12+25TE	11.7	6.1	5.80	-69.3	45
12+50TE	9.3	3.1	6.01	-71.1	45
12+75TE	12.4	4.3	6.53	-72.6	35
13+00TE	3.4	-5.5	6.72	-71.4	45
13+25TE	2.2	-3.7	7.53	-75.5	39
13+50TE	-0.4	-8.5	7.76	-76.2	46
13+75TE	26.4	8.8	10.12	-77.8	54
14+00TE	30.0	24.4	6.97	-73.6	43
14+25TE	-14.4	-15.8	8.91	-76.4	39
14+50TE	6.4	-1.0	10.22	-79.3	47
14+75TE	-0.4	-6.7	9.62	-76.6	36
15+00TE	-26.7	-23.6	10.31	-73.2	39
15+25TE	16.0	2.2	10.17	-78.9	55
15+50TE	16.9	3.2	10.38	-82.1	55
15+75TE	19.9	2.6	12.78	-82.5	56
16+00TE	-16.4	-14.7	12.14	-82.7	49
16+25TE	8.6	-2.3	11.77	-84.8	37
16+50TE	-87.5	46.1	34.83	-62.0	39
16+75TE	0.4	-10.4	12.39	-83.7	59
17+00TE	-18.7	-3.2	11.62	88.3	59
17+25TE	10.7	5.0	12.69	89.7RAIL	48
17+50TE	-3.2	16.7	12.87	-83.8	59
17+75TE	-0.2	21.4	11.79	-80.7	27
18+00TE	-16.2	11.2	10.80	-78.0	59
18+25TE	-1.2	19.1	10.76	-83.5	36
18+50TE	-12.1	13.2	10.48	-82.2	39
18+75TE	2.0	26.0	9.52	-82.0	25
19+00TE	-1.7	25.0	9.52	-84.8	25
19+25TE	2.3	30.4	10.08	-80.7	44
19+50TE	-17.4	19.1	9.40	-64.6	45
19+75TE	-13.5	9.0	8.92	-65.6	47
20+00TE	7.1	22.3	8.08	-78.0	43
20+25TE	-6.8	11.5	7.58	-70.1	34
20+50TE	-5.5	12.9	7.58	-68.4	24
20+75TE	5.8	11.6	7.67	-66.0	49
21+00TE	13.2	12.3	6.59	-70.7	14
21+25TE	12.4	15.6	6.14	-67.8	35
21+50TE	5.6	14.3	6.06	-78.9	14
21+75TE	-0.6	11.5	6.06	-76.9	45
22+00TE	-9.0	6.4	6.44	-77.3	47
22+25TE	-14.1	5.3	7.28	-85.2	49
22+50TE	-3.3	6.1	7.83	-88.4ROAD	38
23+00TE	-0.5	6.0	6.76	-69.4	36
23+25TE	0.2	7.3	6.78	-74.8	26
23+50TE	2.9	7.6	6.60	-71.8	37
23+75TE	-0.5	7.0	6.73	-86.5	17
24+00TE	2.4	8.0	6.86	-78.0	46
24+25TE	2.9	8.7	6.53	-72.9	47
24+50TE	-0.3	7.4	5.96	-71.8	25
24+75TE	-3.3	4.8	5.81	-69.8	35
25+00TE	-2.8	5.0	5.86	-68.5	46

EOF

OMNI-PLUS Tie-line MAG/VLF Ser #218035
VLF DATA
Date 13 JAN 87
Operator: 5001
Records: 65
Bat: 17.3 Volt Lithium: 3.48 Volt
Last time update: 1/11 12:27:00
Start of print: 1/14 17:34:02

#1 71.1 0.1 2816. 6.0 99

Line 6+00 E Date 13 JAN 87 24.0 #2

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
0+00 N	-32.7	-27.8	69.49	25.4	29

Line 6+00 E Date 13 JAN 87 24.0 #3

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
0+25 S	28.5	48.1	70.68	20.7	44
0+50 S	14.6	18.6	82.33	21.2	55
0+75 S	10.7	16.3	91.25	28.5	35
1+00 S	-8.6	18.5	116.9	16.4	49
1+25 S	-75.5	-2.5	100.5	18.1	29
1+50 S	-53.7	16.6	78.75	22.7	47
1+75 S	-46.3	19.8	71.85	18.2	39
2+00 S	-39.3	20.1	67.48	1.6	19
2+25 S	-33.8	20.0	61.76	17.5	39
2+50 S	-31.0	19.8	59.09	14.1	19
2+75 S	-26.1	19.4	56.70	20.1	39
3+00 S	-22.6	17.9	55.25	28.6	49
3+25 S	-19.4	16.3	53.73	14.7	19
3+50 S	-15.5	14.3	53.42	13.4	39
3+75 S	-13.1	12.8	52.54	2.4	29
4+00 S	-9.6	12.5	51.84	31.7	44
4+25 S	-5.5	10.6	51.65	26.8	29
5+25 S	-3.7	8.4	51.40	33.9	44
5+50 S	-1.6	7.4	51.10	20.6	48
5+75 S	0.9	3.8	50.15	18.9	48
6+00 S	7.5	2.7	49.32	27.4	45
6+25 S	9.4	1.5	49.51	25.3	25
6+50 S	12.7	0.6	50.34	22.9	15
6+75 S	14.4	-0.1	50.79	21.9	26
7+00 S	17.9	0.5	52.12	21.3	25
7+25 S	20.8	2.0	53.61	24.3	55
7+50 S	22.0	2.7	54.96	19.0	19
7+75 S	25.3	4.6	57.10	16.2	25
8+00 S	26.2	6.2	60.95	3.8	19

Line 7+00 E Date 13 JAN 87 24.0 #32

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
8+00 S	-15.2	0.2	69.45	9.9	19
7+75 S	-22.6	-1.5	63.41	2.9	39
7+50 S	-23.3	0.2	58.94	28.7	14
7+25 S	-22.5	1.3	56.24	20.3	36
7+00 S	-20.5	1.9	53.11	15.3	36
6+75 S	-18.2	2.2	51.75	10.4	46
6+50 S	-14.6	2.2	49.70	25.2	24
6+25 S	-10.4	3.4	48.19	25.8	15
6+00 S	-4.7	5.0	48.55	19.3	47
5+75 S	-4.0	1.2	48.93	25.7	46
5+50 S	-3.9	-2.8	47.60	27.3	5

5+25	S	2.0	-2.6	47.53	34.7	15
5+00	S	4.2	-4.1	48.68	21.2	18
4+75	S	9.2	-6.1	49.01	28.9	35
4+50	S	16.2	-3.9	49.36	33.1	24
4+25	S	19.3	-4.9	51.96	19.4	36
4+00	S	21.0	-8.3	52.27	15.7	26
3+75	S	24.6	-8.5	52.89	18.3	24
3+00	S	34.9	-9.4	55.78	26.3	23
2+75	S	36.0	-13.2	60.86	21.3	44
2+50	S	36.8	-13.8	61.16	11.1	25
2+25	S	43.0	-14.4	64.61	28.9	34
2+00	S	54.8	-10.6	71.18	12.7	34
1+75	S	83.0	3.2	92.52	18.2	39
1+25	S	-7.9	-20.0	82.81	26.7	5
1+00	S	-18.0	-13.6	78.25	26.0	35
0+75	S	-12.8	-14.1	60.73	27.2	7
0+50	S	-11.6	-23.0	58.41	19.5	29
0+25	S	-17.8	-33.9	62.23	21.4	18
0+00	N	26.3	14.0	94.74	23.2	44

Line 8+00 E Date 13 JAN 87 24.0 #62

POSITION		I/P	QUAD	T.FLD	DIR	CULT S
0+50	N	25.1	33.0	67.26	27.3	34
1+00	S	18.1	21.7	62.87	28.8	34
1+25	S	23.6	16.5	77.14	26.8	34
1+50	S	-97.1	-8.0	104.4	47.5	19

EOF

OMNI-PLUS Tie-line MAG/VLF Ser #218035
VLF DATA
Date 15 JAN 87
Operator: 5001
Records: 203
Bat: 17.0 Volt   Lithium: 3.46 Volt
Last time update: 1/11 12:27:00
Start of print: 1/15 16:47:49

Line 8+00 E Date 15 JAN 87 24.0   #1

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
2+50 S	71.1	0.1	2780.	5.0	99
#2	71.0	0.1	2787.	5.0	99

Line 8+00 E Date 15 JAN 87 24.0   #3

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
2+50 S	-48.3	11.3	111.9	26.0	39
2+75 S	-31.3	15.4	104.7	25.1	39
3+00 S	-31.2	10.9	102.6	-1.6	19
3+25 S	-32.2	9.1	97.33	12.3	29
3+50 S	-29.4	9.2	94.25	23.3	58
3+75 S	-26.5	8.3	90.85	16.6	19
4+00 S	-24.0	8.0	86.92	15.2	39
4+25 S	-19.6	7.8	84.24	24.6	39
4+50 S	-15.5	6.8	82.71	21.7	39
4+75 S	-11.2	6.1	80.98	17.4	39
5+00 S	-5.2	7.3	79.52	19.6	37
5+25 S	2.5	9.0	82.42	21.8	27
5+50 S	2.3	3.6	84.11	22.4	37
5+75 S	5.0	1.5	82.33	20.3	27
6+00 S	8.7	-0.9	92.14	17.5	26
6+25 S	10.7	-4.1	82.72	27.8	14
6+50 S	18.6	-0.4	88.25	23.6	24
6+75 S	22.5	0.8	92.52	26.2	24
7+00 S	25.3	2.0	101.3	9.2	14
7+25 S	17.8	1.0	116.4	2.9	27
7+50 S	-1.3	-0.7	118.8	13.5	9
7+75 S	-18.2	0.9	104.3	9.5	39
8+00 S	-14.5	0.8	96.72	25.2	19

Line 9+00 E Date 15 JAN 87 24.0   #26

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
8+00 S	11.3	6.5	102.0	34.1	14
7+75 S	0.6	-5.8	96.56	31.2	5
7+50 S	17.0	4.5	95.71	29.8	34
7+25 S	26.9	11.5	109.4	34.8	13
7+00 S	11.4	4.8	145.4	11.4	29
6+75 S	-15.3	-4.9	114.3	24.8	9
6+50 S	-9.7	7.1	103.6	27.5	19
6+25 S	-15.1	0.3	102.0	36.0	15
6+00 S	-14.5	-3.5	98.13	35.6	16
5+75 S	-10.5	-4.7	95.48	37.6	7
5+50 S	-10.7	-7.3	101.5	56.8	39
5+25 S	-10.5	-14.7	90.68	31.6	37
5+00 S	-3.0	-10.1	89.86	28.0	55

4+75 S	3.2	-7.9	91.91	41.4		44
4+50 S	8.0	-6.9	93.86	41.0		14
4+25 S	11.5	-6.8	97.35	31.1		25
4+00 S	15.0	-6.8	98.54	32.0		24
3+75 S	18.1	-7.5	99.70	38.3		35
3+50 S	19.9	-6.8	101.3	34.5		4
2+75 S	26.0	-7.3	103.3	29.8		29
3+00 S	33.6	-6.9	107.5	39.4		2
2+75 S	40.4	-5.8	111.5	27.0		22
2+50 S	47.1	-7.6	122.2	28.3		12
2+25 S	67.4	-6.1	141.3	25.5		32
2+00 S	-38.6	-18.1	857.6	23.1	RAIL	29
1+75 S	-13.1	-8.1	154.1	24.8	POND	5
1+50 S	-12.2	-10.6	147.6	17.9	ROAD	19
1+25 S	-17.4	-15.6	128.8	14.5		19
1+00 S	-15.6	-17.9	120.2	23.3		39
0+75 S	-27.1	-23.4	142.4	22.5	TEL	29
0+50 S	21.9	18.6	131.7	23.3	HYDR	35
0+25 S	10.3	7.9	101.1	24.5		5
0+00 N	13.7	2.9	92.24	22.3		17

Line 10+00 E Date 15 Jan 87 24.0 #59

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S
0+00 N	-32.1	-9.0	92.40	20.1		14
0+25 S	-31.9	-9.3	92.09	19.0		39
0+50 S	-40.2	-16.8	111.2	6.7	HYDR	5
0+75 S	-52.4	-18.9	165.3	-4.7	HYDR	9
1+00 S	2.6	30.4	103.4	3.3	HYDR	9
1+25 S	1.9	16.4	115.0	18.2		29
1+50 S	7.7	11.1	128.4	17.0		29
1+75 S	7.9	5.3	127.6	16.2	ROAD	49
2+00 S	44.7	-0.5	131.1	17.0	RAIL	39
2+25 S	-133.8	9.9	253.3	18.1	RAIL	31
2+50 S	-55.8	10.8	120.3	12.6		56
2+75 S	-37.4	8.9	112.3	27.8		23
3+00 S	-32.2	6.3	107.8	31.8		33
3+25 S	-29.9	6.3	106.2	35.2		33
3+50 S	-23.4	6.7	102.9	28.5		14
3+75 S	-18.9	8.3	100.4	26.5		14
4+00 S	-15.8	8.5	100.9	29.4		15
4+00 S	-10.0	8.5	98.57	37.6		14
4+25 S	-8.2	8.4	98.60	27.5		19
4+50 S	-2.9	9.7	95.07	18.9		29
4+75 S	0.0	10.7	93.90	32.9		4
5+00 S	-0.4	7.6	93.80	32.1		25
5+25 S	2.6	8.1	91.78	32.4		34
5+50 S	8.1	9.6	92.13	23.3		45
5+75 S	11.6	9.1	96.15	14.6		59
6+00 S	13.7	7.3	100.6	17.0		39
6+25 S	15.2	4.7	105.1	18.7		49
6+50 S	15.4	4.4	116.2	17.5		59
6+75 S	-3.3	-1.1	126.4	25.6		38
7+00 S	-16.8	-2.4	139.9	26.6		14
7+25 S	-22.5	-2.0	122.7	27.4		33
7+50 S	-12.0	1.7	114.7	22.5		25
7+75 S	-10.0	-0.8	114.3	39.7		34
8+00 S	0.0	1.1	109.2	32.4		45

Line 11+00 E Date 15 JAN 87 24.0 #93

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S
8+00 S	-23.2	-5.6	133.8	22.7		24
7+75 S	-34.9	-15.0	114.5	18.7		39
7+50 S	-21.2	-1.2	112.6	18.5		46
7+25 S	-30.4	-15.2	101.8	14.7		25
7+00 S	-21.4	-6.6	97.63	16.9		25
6+75 S	-15.7	-2.9	96.18	16.9		26

6+50	S	-12.3	-1.7	95.47	10.4		38
6+25	S	-10.0	-1.6	96.20	15.7		38
6+00	S	-9.0	-4.0	93.71	19.8		27
5+75	S	-6.8	-5.3	92.81	6.4		29
5+50	S	-1.6	-4.0	89.24	20.1		38
5+25	S	1.8	-2.7	90.07	15.0		29
5+00	S	5.1	-3.8	90.27	17.4		27
4+75	S	7.3	-3.3	91.73	9.0		39
4+50	S	12.8	-3.8	91.85	23.6		15
4+25	S	15.4	-4.7	92.51	20.4		29
4+00	S	18.3	-4.3	94.73	21.6		29
3+75	S	21.2	-3.2	96.79	21.8		29
3+50	S	26.2	-2.7	97.32	34.3		19
3+25	S	32.1	-2.3	103.8	22.1		15
3+00	S	34.1	-5.1	109.7	22.0		33
2+75	S	46.4	-7.1	117.0	22.5		49
2+50	S	73.7	-1.3	151.0	28.1	ROAD	22
2+25	S	-90.7	3.3	694.0	8.8	RAIL	1
2+00	S	-46.2	12.6	124.3	6.1		29
1+75	S	-30.6	6.2	129.9	13.1		44
1+50	S	-31.9	-1.3	123.5	15.9		47
1+25	S	-30.4	-4.7	117.1	17.1		39
1+00	S	-32.1	-10.5	110.0	21.0		14
0+75	S	-29.3	-10.9	103.8	18.2		24
0+50	S	-25.4	-12.3	99.77	18.8		19
0+25	S	-24.5	-13.5	97.65	20.0		19
0+00	N	-28.7	-26.5	100.7	27.6		39

Line 12+00 E Date 15 JAN 87 24.0 #126

POSITION		I/P	QUAD	T.FLD	DIR	CULT	S
0+00	N	6.6	6.7	94.30	25.9		26
0+25	S	10.9	6.6	96.22	27.7		15
0+50	S	15.0	6.8	98.72	31.8		14
0+75	S	18.4	7.0	104.0	15.4		15
1+00	S	20.6	7.6	107.1	21.9		24
1+25	S	22.4	7.5	115.1	7.1		35
1+50	S	21.4	5.3	121.1	15.7		45
1+75	S	22.1	4.8	124.5	16.0		25
2+00	S	20.2	2.8	133.4	21.3		45
2+25	S	9.2	-5.8	127.1	11.7		39
2+25	S	49.0	-1.4	133.2	18.9		53
2+50	S	-176.9	4.7	178.4	27.3	RAIL	49
2+75	S	-38.6	7.7	117.0	-2.4	ROAD	9
3+00	S	-24.5	3.1	105.2	30.1		9
3+25	S	-13.0	7.9	105.3	26.4		49
3+50	S	-7.6	10.4	112.0	15.8		29
3+75	S	-12.4	6.1	112.7	24.0		49
4+00	S	-14.4	4.0	109.9	19.3		29
4+25	S	-14.8	2.0	104.0	19.4		19
4+50	S	-13.6	3.6	98.28	16.5		49
4+75	S	-11.3	4.9	95.74	-2.7		49
5+00	S	-7.9	7.0	93.94	17.8		39
5+50	S	-0.3	13.8	92.35	6.1		39
5+75	S	10.7	18.8	106.0	12.6		58
6+00	S	-5.0	0.4	107.8	2.7		39
6+25	S	-8.9	-6.9	98.47	1.6		29
6+50	S	-2.8	-0.7	97.01	16.0		49
6+75	S	-0.3	0.9	96.70	9.0		49
7+00	S	0.3	1.4	97.79	6.9		19
7+25	S	3.5	3.5	96.84	-3.8		49
7+50	S	6.1	6.1	100.2	1.8		29
7+75	S	10.3	12.1	104.1	8.7		19
8+00	S	13.0	16.8	119.8	9.1		49

Line 13+00 E Date 15 JAN 87 24.0 #159

POSITION		I/P	QUAD	T.FLD	DIR	CULT	S

8+00	S	24.7	-2.2	103.1	14.8		23
7+75	S	27.4	-0.6	123.8	12.1		44
7+50	S	10.3	-5.3	118.4	23.4		45
7+25	S	14.1	-2.3	109.7	12.8		36
7+00	S	11.4	-1.2	107.5	5.2		28
6+75	S	11.7	1.2	106.3	17.6		36
6+50	S	15.1	4.0	108.9	9.6		26
6+25	S	9.4	0.8	107.7	25.6		55
6+00	S	2.5	-3.3	108.9	23.8		39
5+75	S	1.7	-3.0	107.3	13.5		49
5+50	S	0.9	-5.8	98.11	26.8		39
5+25	S	5.6	-1.9	100.1	24.5		46
5+00	S	6.8	-1.0	102.8	24.4		26
4+75	S	8.8	1.4	104.8	26.9		25
4+50	S	11.2	3.9	111.4	30.1		14
4+25	S	7.3	2.5	118.2	22.8		36
4+00	S	2.5	5.3	127.3	32.3		25
3+75	S	-5.0	6.8	125.9	38.5		19
3+50	S	2.2	7.4	115.9	29.4		16
3+25	S	7.6	4.0	109.3	32.3	ROAD	5
3+00	S	17.3	0.8	107.7	34.1	ROAD	14
2+75	S	33.8	5.4	107.3	29.1		23
2+50	S	108.9	10.0	140.7	37.9		31
2+25	S	-61.2	1.3	139.3	17.6	RAIL	39
2+00	S	-19.1	7.7	120.8	22.7		39
1+75	S	-20.5	2.0	121.1	17.9		29
1+50	S	-21.3	-0.7	114.1	23.9		16
1+25	S	-18.5	-1.3	109.4	27.8		29
1+00	S	-16.2	-1.8	104.2	24.5		19
0+50	S	-10.7	-0.3	97.59	13.3		29
0+25	S	-61.5	-1.2	2.05	25.9		31
0+00	N	3.9	18.2	70.61	7.9		26
0+25	N	23.4	44.1	106.9	23.4		54

Line 14+00 E Date 15 JAN 87 24.0 #192

POSITION		I/P	QUAD	T.FLD	DIR	CULT	S
0+25	N	8.8	-3.3	93.50	17.4		56
0+50	S	12.7	0.9	94.05	21.5		25
0+75	S	16.8	3.1	97.46	16.5		15
1+00	S	20.3	3.7	99.54	17.7		55
1+25	S	23.9	3.9	104.6	19.7		14
1+50	S	29.8	5.0	113.3	16.9		23
1+75	S	34.0	1.5	127.2	9.2		35
2+00	S	130.6	24.6	196.6	18.6		39
2+25	S	-50.6	3.9	104.6	32.9		39
2+50	S	-15.5	6.2	103.2	19.4		39
2+75	S	-11.0	3.7	95.73	25.8		49
3+00	S	2.0	4.6	94.37	10.7		29

EOF

OMNI-PLUS Tie-line MAG/VLF Ser #218035
VLF DATA
Date 16 JAN 87
Operator: 5001
Records: 194
Bat: 16.1 Volt   Lithium: 3.46 Volt
Last time update: 1/11 12:27:00
Start of print: 1/16 16:16:25

#1	71.3	0.1	2764.	4.0	99

Line 14+00 E Date 16 JAN 87 24.0 #2

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
3+50 S	14.2	2.8	116.6	23.4	45

Line 14+00 E Date 16 JAN 87 24.0 #3

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
3+75 S	26.3	5.4	139.8	9.2	44
4+00 S	-6.5	4.2	150.5	5.4	39
4+25 S	-13.7	6.1	119.4	14.0	39
4+50 S	-14.9	5.7	115.1	18.4	49
4+75 S	-15.0	4.9	107.2	20.3	29
5+00 S	-8.8	5.6	104.2	22.0	29
5+25 S	-7.8	4.7	107.7	19.2	39
5+50 S	-7.0	4.5	108.8	19.8	19
5+75 S	-6.4	4.1	110.8	19.0	19
6+00 S	-7.6	4.1	113.8	26.2	39
6+25 S	-6.0	4.0	115.3	16.6	29
6+50 S	-6.9	4.4	116.6	26.7	29
6+75 S	-8.3	4.8	121.5	19.0	29
7+00 S	-13.0	4.3	121.2	17.0	29
7+25 S	-15.5	4.8	119.6	18.7	19
7+50 S	-11.1	6.7	124.7	17.3	29
7+75 S	-29.4	1.5	127.8	25.8	19
8+00 S	-25.7	3.7	120.3	23.7	39

Line 15+00 E Date 16 JAN 87 24.0 #21

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
8+00 S	12.0	3.7	131.5	32.7	15

Line 16+00 E Date 16 JAN 87 24.0 #22

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
8+00 S	-12.9	5.2	112.3	33.9	29
7+75 S	-14.6	5.4	115.7	34.5	29
7+50 S	-12.3	5.5	115.4	29.8	29
7+25 S	-14.0	4.4	113.3	29.5	29
7+00 S	-10.0	6.1	111.6	29.3	19
6+75 S	-10.3	5.1	112.4	26.4	29
6+50 S	-9.2	5.3	110.5	24.6	19
6+25 S	-8.3	5.1	110.8	28.8	19
6+00 S	-10.3	3.7	110.9	27.1	39
5+75 S	-12.0	1.8	117.7	25.1	9
5+50 S	-22.5	-6.5	104.5	24.2	19
5+25 S	-15.2	-3.2	97.40	20.6	19
5+00 S	-9.5	-1.5	95.39	20.0	29
4+75 S	-3.4	-0.3	95.89	19.0	19

4+50 S	1.0	-0.3	95.70	16.6		19
4+25 S	5.0	-0.1	96.21	22.6		19
4+00 S	10.8	0.7	95.77	20.4		35
3+75 S	19.9	2.6	98.84	18.7		34
3+50 S	25.3	2.2	104.8	19.2		13
3+25 S	39.6	3.2	125.4	24.1	ROAD	22
3+00 S	30.3	0.9	145.8	0.5		33
2+75 S	1.2	-4.0	139.9	8.3		9
2+50 S	-3.3	-6.7	124.8	19.3		19
2+25 S	3.8	-4.6	120.9	21.5		29
2+00 S	7.0	-3.5	124.4	19.5		39
1+75 S	4.7	-3.5	130.2	22.8		9
1+50 S	-3.4	-4.7	128.7	11.0		39
1+25 S	-6.3	-4.5	121.4	14.5	TEL	39
1+00 S	-29.2	-22.8	143.8	45.6	RAIL	29

Line 15+00 E Date 16 JAN 87 24.0 #51

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S
1+50 S	-39.7	-8.0	130.0	15.8		19
1+25 S	-22.2	-5.0	112.0	14.6		29
1+00 S	-16.1	-1.4	108.6	15.2		49
0+75 S	-11.6	1.1	104.9	17.0		9
0+50 S	-9.6	3.1	101.4	15.8		19
0+25 S	-8.2	8.2	98.26	19.3		19
0+00 N	7.4	67.8	116.6	21.9		24

Line 16+00 E Date 16 JAN 87 24.0 #58

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S
0+00 N	-0.3	-54.5	129.0	18.6		39
0+25 S	14.6	-2.0	122.1	22.0		34
0+50 S	16.1	5.5	122.0	26.2		34
0+75 S	20.1	11.6	121.3	28.5	RAIL	54

Line 15+00 E Date 16 JAN 87 24.0 #62

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S
1+75 S	-82.8	-3.8	331.9	-13.5	RAIL	29
2+00 S	-42.5	5.3	111.2	26.4		39
2+25 S	-18.7	8.1	99.49	21.3		9
2+50 S	-18.1	5.3	103.3	17.2		19
2+75 S	-12.0	5.1	96.68	19.0		19
3+00 S	-3.5	5.8	92.20	23.2		39
3+25 S	10.2	8.4	95.09	20.5	ROAD	19
3+50 S	11.2	5.4	99.77	20.5	ROAD	24
3+75 S	8.9	4.7	111.2	14.9		19
4+00 S	-3.7	6.5	120.3	19.5		29
4+25 S	-12.6	8.2	122.8	28.8		39
4+50 S	-18.1	8.2	121.4	28.8		29
4+75 S	-21.3	6.6	118.7	28.7		19
5+00 S	-27.0	3.1	109.8	25.4		19
5+25 S	-18.3	3.7	101.2	29.7		29
5+50 S	-12.1	3.4	104.2	27.1		29
5+75 S	-10.8	2.8	105.2	25.2		29
6+00 S	-9.1	2.0	105.2	27.2		29
6+25 S	-8.0	1.3	106.5	9.7		39
6+50 S	-7.1	1.0	112.3	20.5		19
6+75 S	-6.1	1.0	113.4	20.9		19
7+00 S	-11.6	0.9	123.3	16.9		39
7+25 S	-11.3	0.6	120.5	24.1		29
7+50 S	-12.0	1.8	135.2	23.3		39
7+75 S	-21.2	0.0	129.3	28.4		19
8+00 S	-25.1	-0.6	126.6	30.5		19

Line 17+00 E Date 16 JAN 87 24.0 #88

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S
7+75 S	-25.2	2.6	102.1	26.7		29
7+50 S	-19.2	5.2	100.6	28.8		29

7+25	S	-16.2	5.4	102.0	23.0	29
7+00	S	-12.5	6.0	102.4	25.5	29
6+75	S	-12.7	4.0	103.2	25.7	19
6+50	S	-9.7	4.9	104.2	30.8	9
6+25	S	-15.8	-1.6	100.6	26.8	9
6+00	S	-10.4	1.3	96.03	27.5	29
5+75	S	-4.6	3.5	96.43	24.9	19
5+50	S	-5.3	0.0	93.40	21.1	9
5+25	S	-1.4	1.3	87.28	18.1	19
5+00	S	4.3	2.6	85.73	21.4	8
4+75	S	8.9	3.7	86.11	9.5	19
4+50	S	13.0	3.1	86.18	21.8	45
4+25	S	16.5	2.9	87.55	16.6	26
4+00	S	21.5	3.4	89.40	4.2	35
3+75	S	27.5	3.8	93.55	16.4	23
3+50	S	32.3	3.4	98.45	33.7	2
3+25	S	40.1	4.6	107.0	31.3	12
3+00	S	41.6	2.7	166.3	14.5ROAD	3
2+75	S	11.4	-3.6	126.5	24.3	46
2+50	S	4.7	-3.4	134.3	12.5	39
2+25	S	-15.4	-9.3	119.9	17.9	39
2+00	S	-11.0	-7.5	105.2	20.9	9
1+75	S	-9.3	-7.4	99.08	21.0	9
1+50	S	-5.7	-7.4	92.21	19.4	19
1+25	S	0.6	-7.1	90.15	18.8	9
1+00	S	6.0	-6.5	87.85	9.5	19
0+75	S	13.9	-3.2	90.95	9.4	25
0+50	S	8.0	-2.4	96.45	-0.9	9
0+25	S	-3.0	4.6	103.9	5.5	49
0+00	N	-1.8	46.4	111.8	12.2	44

Line 18+00 E Date 16 JAN 87 24.0 #120

POSITION		I/P	QUAD	T.FLD	DIR	CULT	S
0+00	N	-47.4	-45.3	120.3	13.5		19
0+25	S	-22.5	-3.6	83.13	19.1		19
0+50	S	-14.0	3.8	81.79	18.5		19
0+75	S	-5.5	7.2	81.30	22.6		29
1+00	S	-3.0	7.3	78.14	24.3		39
1+25	S	0.0	6.4	81.32	33.4		9
1+50	S	-0.2	5.4	77.07	21.3		19
1+75	S	8.0	8.0	79.24	6.4		39
2+00	S	15.5	10.1	83.29	23.2		34
2+25	S	22.0	11.7	88.87	22.0		24
2+50	S	28.5	12.8	100.3	19.5		13
2+75	S	30.2	11.1	119.6	24.8ROAD		3
3+00	S	14.3	7.7	148.3	14.5		6
3+25	S	-19.6	6.0	130.5	18.3		39
3+50	S	-31.2	7.3	106.7	18.9		19
3+75	S	-56.2	-11.5	94.84	27.9		29
4+00	S	-39.2	-9.0	71.54	22.5		29
4+25	S	-29.9	-5.9	67.28	29.5		29
4+50	S	-21.6	-3.8	66.36	21.8		19
4+75	S	-15.5	-2.8	65.04	14.1		49
5+00	S	-10.6	-2.5	63.62	22.3		29
5+25	S	-4.7	-1.3	64.73	10.0		49
5+50	S	0.1	-0.5	65.83	24.9		39
5+75	S	2.9	-0.3	66.53	39.5		25
6+00	S	5.7	-0.5	66.40	32.0		35
6+25	S	8.5	0.4	66.87	32.6		15
6+50	S	13.3	0.0	68.56	26.9		24
6+75	S	16.1	0.0	71.05	19.5		26
7+00	S	13.6	-3.8	74.05	23.6		8
7+25	S	15.0	-4.6	71.43	18.1		16
7+50	S	21.3	-2.7	69.95	20.5		24
7+75	S	28.4	-0.3	72.06	19.0		13
8+00	S	30.6	0.7	73.39	19.9		13

Line 19+00 E Date 16 JAN 87 24.0 #153

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S
7+75 S	-22.5	8.7	73.62	21.1		39
7+50 S	-16.4	8.1	76.06	20.5		39
7+25 S	-12.6	7.9	77.54	19.2		39
7+00 S	-10.1	6.7	81.39	18.0		19
6+75 S	-12.8	3.6	76.55	19.8		39
6+50 S	-10.9	3.0	74.89	22.8		39
6+25 S	-7.2	2.5	71.74	26.1		19
6+00 S	-5.6	3.3	70.07	23.4		49
5+75 S	-0.1	3.3	67.42	16.8		9
5+50 S	4.8	4.4	65.52	24.6		9
5+25 S	9.9	5.2	65.03	25.7		36
5+00 S	14.9	6.3	65.69	19.3		36
4+75 S	21.7	7.1	66.51	21.1		26
4+50 S	30.8	9.3	68.18	24.7		33
4+25 S	42.2	11.7	72.07	21.8		12
4+00 S	53.8	17.3	77.85	19.9		23
3+75 S	57.3	1.7	111.6	20.8		12
3+50 S	33.6	-4.9	130.4	13.8		13
3+25 S	12.4	-3.6	128.6	11.9		29
3+00 S	-3.2	-0.5	118.7	10.0		39
2+75 S	-11.1	1.8	108.3	12.2		39
2+50 S	-18.1	1.1	108.4	8.3	ROAD	39
2+25 S	-48.2	-19.6	91.07	14.5	ROAD	9
2+00 S	-27.8	-17.4	74.35	24.1		29
1+75 S	-14.5	-11.0	70.68	19.8		29
1+50 S	-4.5	-7.7	69.98	14.5		19
1+25 S	0.5	-6.8	69.76	20.6		59
1+00 S	7.3	-4.3	69.49	21.5		46
0+75 S	13.6	-2.7	70.46	15.7		46
0+50 S	18.1	-0.5	71.55	20.4		26
0+25 S	23.0	1.9	73.52	17.5		36
0+25 N	29.7	6.9	76.61	27.1		13
0+50 N	25.4	-2.7	136.6	6.8	BASE	24

Line 20+00 E Date 16 JAN 87 24.0 #186

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S
0+00 N	-7.7	8.2	116.1	13.4		15
0+25 S	-1.9	8.7	76.94	30.5		15
0+50 S	3.3	9.1	82.15	27.0		17
0+75 S	5.7	7.2	82.18	22.1		49
1+00 S	6.8	6.0	79.37	24.7		39
1+25 S	10.4	4.2	79.05	32.0		34
1+50 S	8.7	3.4	78.50	31.5		45
1+50 S	9.3	3.9	78.93	28.2	ROAD	25
1+75 S	6.0	1.3	79.89	27.6	ROAD	29

EOF

OMNI-PLUS Tie-line MAG/VLF Ser #218035
VLF DATA
Date 17 JAN 87
Operator: 5001
Records: 180
Bat: 16.7 Volt   Lithium: 3.48 Volt
Last time update: 1/11 12:27:00
Start of print: 1/17 19:22:47

#1	71.2	0.1	2783.	5.0	99

Line 20+00 E Date 17 JAN 87 24.0 #2

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
2+00 S	3.3	-2.4	87.92	11.7	29

Line 20+00 E Date 17 JAN 87 24.0 #3

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
2+25 S	4.8	-4.7	85.72	11.9	39
2+50 S	10.9	-5.4	88.58	21.1	45
2+75 S	17.1	-4.5	100.1	28.2	14
3+00 S	14.3	-2.9	116.8	22.1	35
3+25 S	6.5	0.0	131.5	24.5	37
3+50 S	-4.3	3.5	145.1	17.8	19
3+75 S	-19.3	6.5	154.4	21.9	49
4+00 S	-70.5	-26.9	105.0	27.6	29
4+75 S	-45.7	-14.1	86.31	22.4	29
5+00 S	-32.7	-9.8	80.71	25.1	19
5+25 S	-23.4	-5.9	78.15	25.6	49
5+50 S	-14.4	-4.9	78.73	23.1	19
5+75 S	-8.5	-4.6	79.45	24.1	19
6+00 S	-4.3	-2.6	79.90	23.3	49
6+25 S	0.2	-2.0	79.87	22.9	19
6+50 S	5.4	-1.2	80.61	15.4	29
6+75 S	9.1	0.0	81.47	18.8	19
7+00 S	13.5	1.6	85.32	23.1	24
7+25 S	16.3	1.4	92.67	18.3	45
7+50 S	4.3	-7.2	94.59	16.2	39
7+75 S	2.8	-14.9	80.40	16.3	19
8+00 S	15.3	-8.8	80.80	31.0LAKE	34
8+25 S	-24.2	1.7	84.60	21.1LAKE	29

Line 21+00 E Date 17 JAN 87 24.0 #26

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
8+00 S	-24.2	1.5	84.08	28.4	19
7+50 S	-25.0	1.9	84.70	23.3	29
7+25 S	-15.5	4.4	88.65	25.6	29
7+00 S	-10.8	3.4	84.08	16.9	19
6+50 S	-7.0	1.5	84.02	19.5	19
6+25 S	-5.0	1.3	82.35	18.6	19
6+00 S	-1.0	2.0	82.58	21.1	49
5+75 S	2.6	3.0	84.53	17.5	49
5+50 S	5.8	3.5	87.54	15.9	29
5+25 S	6.8	3.3	90.25	23.0	19
5+00 S	5.8	2.9	95.46	22.0	46
4+75 S	4.6	1.9	97.19	12.9	39
4+50 S	6.8	2.3	99.75	19.6	26
4+25 S	10.1	3.1	106.6	9.7	29

4+00 S	10.9	3.1	120.6	15.6		9
3+75 S	-9.6	-2.1	131.3	14.2		49
3+50 S	-15.9	-3.3	112.7	10.1		9
3+25 S	-17.0	-1.8	102.8	12.0		69
3+00 S	-14.9	-0.1	96.40	14.0		29
2+75 S	-13.5	-0.2	90.63	12.4		69
2+50 S	-3.6	4.8	83.98	16.1		19
2+25 S	3.7	6.5	88.31	12.5		49
2+00 S	6.3	3.8	90.77	2.8		29
1+75 S	10.3	3.2	88.54	9.2		17
1+50 S	19.4	5.7	91.56	-0.6		24
1+25 S	21.1	4.1	106.0	2.9	ROAD	24
1+00 S	3.3	-3.6	106.7	8.1		19
0+75 S	2.8	-3.0	116.1	12.5		49
0+50 S	-0.1	-4.0	116.7	13.3		39
0+25 S	-10.5	-4.4	119.6	-0.9	BASE	39

Line 22+00 E Date 17 JAN 87 24.0 #56

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S
0+00 N	-6.5	5.9	107.2	15.0		59
0+25 S	2.1	9.2	106.6	8.0	ROAD	49
0+50 S	-1.4	4.5	109.9	12.5	ROAD	39
0+75 S	-3.1	3.0	118.9	10.9		49
1+00 S	3.8	5.6	129.9	12.2		39
1+25 S	-25.6	-4.2	112.8	11.2		29
1+50 S	-19.9	-5.4	100.7	18.2		39
1+75 S	-9.1	1.6	93.26	13.9		19
2+00 S	-8.1	-1.0	97.03	18.7		49
2+25 S	-5.1	-1.2	99.81	21.3		49
2+50 S	-13.0	-11.6	97.76	17.3		59
2+75 S	-2.8	-6.1	95.48	17.9		19
3+00 S	5.2	-0.8	95.88	21.7		47
3+25 S	10.3	1.5	100.5	14.8		27
3+50 S	14.3	4.1	107.5	15.5		26
3+75 S	14.8	4.9	119.4	13.1		35
4+00 S	7.2	3.3	135.7	17.9		16
4+25 S	-12.3	-2.1	125.8	18.4		29
4+50 S	-12.2	-1.2	109.2	23.1		59
4+75 S	-8.6	-0.4	105.7	14.1		19
5+00 S	-7.5	-0.5	100.4	20.8		29
5+25 S	-5.6	-0.7	96.59	17.1		29
5+50 S	-2.6	0.6	94.83	16.5		39
5+75 S	1.1	1.9	94.07	15.0		39
6+00 S	2.6	2.7	93.37	18.1		19
6+25 S	2.4	2.2	91.82	15.2		49
6+50 S	5.4	2.4	88.70	15.9		15
6+75 S	7.9	1.6	88.90	16.4		57
7+00 S	11.7	1.0	87.40	15.2		37
7+25 S	18.0	4.0	90.11	16.4		44
7+50 S	21.9	3.0	96.27	17.8		24
7+75 S	18.9	-1.3	97.35	11.2	LAKE	34

Line 23+00 E Date 17 JAN 87 24.0 #88

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S
7+75 S	-17.8	-1.0	91.22	-16.7		29
7+50 S	-14.6	-0.8	88.64	-22.0		49
7+25 S	-9.3	-0.8	85.75	-14.1		19
6+75 S	-3.1	0.4	84.74	20.8		39
6+50 S	2.5	1.8	86.32	15.3		29
6+25 S	8.1	2.6	85.54	21.0		17
6+00 S	20.1	9.5	93.63	11.6		25
5+75 S	5.3	-1.2	102.2	3.9		39
5+50 S	1.5	-1.5	100.1	12.4		19
5+25 S	2.2	-0.2	101.3	14.0		49
5+00 S	4.7	0.3	104.7	15.3		68
4+75 S	5.1	0.2	109.6	14.6		19

4+50	S	3.5	0.8	115.1	13.8	29
4+25	S	1.4	1.4	126.7	8.2	49
4+00	S	-14.6	-1.7	118.5	14.5	39
3+75	S	-16.1	-1.2	105.9	24.2	57
3+50	S	-14.1	0.1	99.15	26.1	19
3+25	S	-10.1	1.5	95.88	24.2	14
3+00	S	-7.3	3.3	92.54	25.2	28
2+75	S	-2.3	4.8	91.11	22.6	49
2+50	S	3.2	6.5	90.18	25.8	29
2+25	S	7.8	7.6	92.48	18.7	47
2+00	S	11.2	8.0	93.36	24.3	35
1+75	S	14.2	6.0	95.94	16.9	26
1+50	S	18.9	6.2	99.64	19.6	14
1+25	S	21.7	5.5	108.3	19.1	68
1+00	S	15.5	2.2	118.9	10.2	26
0+75	S	8.1	-0.2	111.7	19.1	25
0+50	S	7.3	0.7	107.1	17.9	29
0+25	S	12.4	2.0	120.6	12.1	17
0+00	N	-3.6	-3.4	114.2	21.2BASE	29

Line 24+00 E Date 17 JAN 87 24.0 #119

POSITION		I/P	QUAD	T.FLD	DIR	CULT S
0+00	N	3.0	4.6	119.6	13.3BASE	69
0+25	S	-21.5	-3.9	111.9	18.0	45
0+50	S	-8.9	2.2	106.1	14.2	29
0+75	S	-5.3	4.7	115.8	15.9	69
1+00	S	-18.8	-1.1	119.9	17.5	39
1+25	S	-33.5	-12.3	103.5	14.2	39
1+50	S	-19.8	-6.5	93.72	22.7	49
1+75	S	-13.5	-3.3	92.21	16.0	49
2+00	S	-7.4	-2.6	91.23	23.6	49
2+25	S	-2.8	-3.9	92.66	24.9	19
2+50	S	2.3	-3.5	92.50	19.4	29
2+75	S	12.9	1.6	94.92	21.6	44
3+00	S	17.3	4.0	98.72	15.5	25
3+25	S	25.7	7.8	107.2	18.3	44
3+50	S	26.6	7.9	122.2	22.3	13
3+75	S	16.8	4.2	139.9	19.8	34
4+00	S	5.0	2.3	149.4	15.1	49
4+25	S	-11.3	0.4	143.9	10.9	49
4+50	S	-23.4	-3.0	131.0	9.2	39
4+75	S	-28.5	-4.2	117.4	9.8	29
5+00	S	-29.7	-5.5	108.2	16.3	39
5+25	S	-24.8	-5.9	96.92	19.0	49
5+50	S	-17.3	-2.0	93.24	16.7	39
5+75	S	-10.3	1.3	90.23	21.0	25
6+00	S	-3.7	4.5	89.67	17.3	58
6+25	S	1.1	6.1	90.71	19.3	29
6+50	S	0.5	3.8	91.58	4.5	39
6+75	S	4.5	4.8	91.01	12.4	39
7+00	S	9.0	7.3	92.08	15.7	57

Line 25+00 E Date 17 JAN 87 24.0 #148

POSITION		I/P	QUAD	T.FLD	DIR	CULT S
8+00	S	-13.3	-5.6	101.5	14.2	29
7+75	S	-11.3	-5.0	97.50	16.8	29
7+50	S	-7.8	-3.3	94.35	19.6	19
7+25	S	-5.5	-1.8	93.33	20.5	29
7+00	S	-4.4	-1.8	94.27	14.1	49
6+75	S	-2.9	-2.8	91.25	20.2	39
6+50	S	2.4	-0.8	90.85	18.2	29
6+25	S	6.3	0.3	90.21	18.8	46
6+00	S	12.6	3.4	92.91	22.0	45
5+75	S	15.0	2.8	96.43	22.2	35
5+50	S	16.7	0.9	98.60	20.1	44
5+25	S	26.9	6.2	106.2	19.7	14

5+00	S	30.6	4.4	122.9	17.8	34
4+75	S	19.0	-1.3	137.7	14.1	37
4+50	S	11.5	-1.2	146.8	17.1	45
4+25	S	-1.2	-0.3	148.7	16.0	39
4+00	S	-14.0	-1.3	138.1	13.4	9
3+75	S	-24.0	-4.7	121.5	16.1	34
3+50	S	-21.7	-8.2	105.1	12.4	29
3+25	S	-15.4	-4.4	100.5	19.4	49
3+00	S	-10.4	-1.7	97.70	21.3	29
2+75	S	-7.0	1.4	93.01	15.8	39
2+50	S	-0.6	5.9	93.86	22.7	39
2+25	S	3.0	5.8	101.9	25.6	37
2+00	S	6.8	6.9	100.4	22.5	36
1+75	S	8.7	6.7	104.9	22.6	16
1+50	S	4.6	4.2	100.4	23.5	36
1+25	S	13.2	6.8	101.7	26.4	35
1+00	S	11.2	5.3	106.9	21.9	36
0+75	S	3.7	2.2	114.7	21.6	57
0+50	S	4.2	2.0	103.1	22.2	28
0+25	S	-0.2	-0.5	107.4	16.0	39
0+00	N	-0.4	-0.3	102.2	15.0BASE	49

EOF

OMNI-PLUS Tie-line MAG/VLF Ser #218035
VLF DATA
Date 19 JAN 87
Operator: 5001
Records: 152
Bat: 16.1 Volt   Lithium: 3.46 Volt
Last time update: 1/11 12:27:00
Start of print: 1/19 16:19:20

#1	71.3	0.1	2787.	5.0	99

Line 5+00 E Date 19 JAN 87 24.0 #2

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
0+75 S	17.4	18.3	102.2	4.5	46

Line 5+00 E Date 19 JAN 87 24.0 #3

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
1+00 S	11.6	19.5	132.3	11.0	37
1+50 S	-79.9	9.1	126.5	16.0	49
1+75 S	-54.8	19.0	102.1	6.4	19
2+00 S	-47.2	20.6	94.77	18.2	59
2+25 S	-35.8	24.2	85.15	10.9	29
2+50 S	-34.0	22.1	81.52	19.9	48
2+75 S	-30.1	23.5	75.88	16.8	29
3+00 S	-26.2	22.6	74.31	19.9	39
3+25 S	-25.9	19.5	72.38	21.9	29
3+50 S	-22.5	18.0	70.05	21.8	29
3+75 S	-19.0	18.3	67.06	18.4	19
4+00 S	-16.2	16.4	66.08	23.1	39
4+25 S	-13.3	15.2	65.84	20.0	49
4+50 S	-10.2	14.2	64.17	23.1	39
4+75 S	-7.9	11.4	65.80	17.2	49
5+00 S	-5.8	9.3	65.78	17.6	39
5+25 S	-3.9	6.6	64.98	19.4	59
5+50 S	-1.9	4.8	64.40	15.7	19
5+75 S	-0.2	2.6	64.46	15.9	49
6+00 S	2.9	1.8	63.11	20.0	39
6+25 S	5.2	1.1	63.53	14.5	29
6+50 S	7.0	-0.8	63.39	14.1CLIF	9
6+75 S	13.6	-5.2	62.23	16.4	35
7+50 S	17.9	-3.3	63.83	24.3	44
7+75 S	21.4	-1.5	67.45	15.5	33
8+00 S	23.8	-0.2	69.80	29.0	33

Line 4+00 E Date 19 JAN 87 24.0 #29

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
8+00 S	-17.8	5.7	76.74	20.1	39
7+75 S	-15.0	5.5	75.69	16.6	39
7+50 S	-12.3	5.3	75.97	20.1	29
7+25 S	-11.1	4.4	75.54	21.0	49
7+00 S	-8.7	2.4	75.65	24.4	39
6+75 S	-6.9	0.4	73.70	25.2	19
6+50 S	-5.7	-0.3	74.55	21.8	66
6+25 S	-2.6	-0.1	73.73	16.5	19
6+00 S	1.2	0.2	72.84	22.6	27
5+75 S	2.8	-2.1	74.22	17.2	29
5+50 S	4.7	-3.6	73.45	18.4	36

5+25 S	7.5	-4.8	74.61	28.8	35
5+00 S	9.2	-6.6	77.25	20.2	26
4+75 S	12.0	-8.1	79.21	21.6	35
4+50 S	14.7	-11.1	79.82	22.7	35
4+25 S	14.7	-12.4	81.93	21.6	36
4+00 S	18.8	-12.9	83.00	27.5	49
3+75 S	22.1	-13.4	86.13	20.4	29
3+50 S	26.5	-13.5	89.82	20.6	14
3+25 S	28.5	-15.8	92.52	19.6	44
3+00 S	29.1	-16.8	98.02	9.8	59
2+75 S	31.4	-19.1	100.4	19.3	54
2+50 S	35.7	-17.8	105.9	11.5	13
2+25 S	37.5	-20.0	110.2	17.1	43

Line 3+00 E Date 19 JAN 87 24.0 #53

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
2+25 S	-36.1	27.2	109.2	17.5	67
2+50 S	-36.0	24.3	108.8	12.4	49
2+75 S	-35.0	21.4	100.2	27.6	59
3+00 S	-32.6	20.0	95.32	22.5	59
3+25 S	-28.8	19.3	92.86	22.8	19
3+50 S	-27.2	16.8	89.08	20.0	46
3+75 S	-23.6	16.1	86.13	22.3	59
4+00 S	-20.5	15.2	84.06	21.4	29
4+25 S	-15.4	15.4	83.98	19.3	39
4+50 S	-15.0	11.0	83.42	22.9	59
4+75 S	-13.9	9.1	84.44	20.5	47
5+00 S	-10.3	8.7	82.86	17.5	37
5+25 S	-9.4	5.0	81.48	19.2	59
5+50 S	-4.8	5.9	82.41	16.7	39
5+75 S	-1.6	6.0	81.10	22.5	29
6+00 S	0.8	4.8	82.74	19.6	59
6+25 S	2.4	3.2	80.86	21.5	57
6+50 S	4.4	2.4	81.92	19.8	37
6+75 S	6.7	1.9	80.64	25.1	44
7+00 S	8.4	1.3	83.08	17.5	27
7+25 S	10.5	-0.1	83.11	16.9	56
7+50 S	11.4	-2.6	83.52	24.8	44
7+75 S	12.6	-3.5	83.49	14.6	46
8+00 S	14.8	-4.6	84.93	3.4	16

Line 2+00 E Date 19 JAN 87 24.0 #77

POSITION	I/P	QUAD	T.FLD	DIR	CULT S
8+00 S	-13.4	6.9	83.19	20.2	29
7+75 S	-14.1	2.6	79.70	18.7	29
7+50 S	-11.2	4.4	79.68	16.4	29
7+25 S	-10.3	2.1	78.38	25.9	29
7+00 S	-8.3	1.2	77.70	22.7	39
6+75 S	-5.2	0.9	77.13	23.5	39
6+50 S	-3.7	0.8	75.76	21.9	19
6+25 S	-1.0	0.0	76.05	25.5	29
6+00 S	0.7	-1.9	75.54	27.1	19
5+75 S	4.0	-2.5	74.07	24.6	19
5+50 S	6.5	-2.8	74.11	20.1	38
5+25 S	7.9	-4.2	75.22	24.3	45
5+00 S	11.5	-5.0	73.43	19.5	36
4+75 S	15.1	-5.6	73.81	25.4	14
4+50 S	16.2	-6.9	73.10	20.2	49
4+25 S	17.0	-9.5	75.38	16.2	19
4+00 S	21.3	-12.0	74.79	21.9	34
3+75 S	23.1	-13.3	76.45	19.0	29
3+50 S	31.8	-12.1	78.17	22.6	23
3+25 S	31.4	-14.8	78.94	16.3	39
3+00 S	39.3	-14.8	82.38	22.4	44
2+75 S	45.2	-17.0	92.61	21.4	33
2+50 S	45.7	-21.4	95.78	20.7	19

2+25 S	51.3	-23.6	105.3	18.7		45
2+00 S	71.3	-30.0	123.7	20.0		43
1+75 S	105.0	-29.1	197.1	10.5		32
1+25 S	106.3	-26.0	195.9	13.4	RAIL	31

Line 1+00 E Date 19 JAN 87 24.0 #104

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S
1+25 S	-100.0	11.3	509.9	-6.9	RAIL	29
2+25 S	-103.1	40.0	142.0	15.1		39
2+50 S	-63.2	25.0	107.3	20.8		59
2+75 S	-55.7	20.6	96.20	19.3		19
3+00 S	-44.0	21.1	87.38	15.8		19
3+25 S	-38.9	18.8	83.80	17.1		29
3+50 S	-34.0	17.0	83.12	20.0		13
3+75 S	-26.5	17.9	80.92	26.4		29
4+00 S	-23.6	15.3	79.62	18.4		59
4+25 S	-22.2	10.6	78.67	21.6		39
4+50 S	-19.6	8.5	76.44	15.8		19
4+75 S	-15.3	8.0	74.48	21.4		19
5+00 S	-12.4	6.9	75.04	21.0		29
5+25 S	-8.7	6.8	74.16	18.9		49
5+50 S	-6.3	5.6	74.59	19.0		57
5+75 S	-2.5	5.5	74.51	22.3		29
6+00 S	-0.1	4.5	77.12	19.2		59
6+25 S	2.1	3.9	77.61	17.3		59
6+50 S	4.5	2.6	77.41	18.5		38
6+75 S	5.5	2.0	77.69	13.7		9
7+00 S	7.6	0.5	80.09	18.7		59
7+25 S	9.3	0.3	81.32	20.2		59
7+50 S	11.7	-0.4	82.80	19.1		45
7+75 S	11.3	-3.4	83.79	20.9		46
8+00 S	13.7	-2.1	83.81	23.9		56

Line 0+00 E Date 19 JAN 87 24.0 #129

POSITION	I/P	QUAD	T.FLD	DIR	CULT	S
8+00 S	-15.0	4.0	83.04	7.0		29
7+75 S	-14.2	3.6	82.34	21.9		4
7+50 S	-11.3	3.8	81.67	19.3		19
7+25 S	-9.7	3.6	80.51	25.4		56
7+00 S	-7.1	4.1	81.21	21.0		49
6+75 S	-6.7	0.9	79.73	19.9		39
6+50 S	-5.8	-0.8	78.20	20.5		49
6+25 S	-2.7	-1.2	78.76	15.5		29
6+00 S	-0.1	-1.6	77.04	17.2		29
5+75 S	2.4	-2.1	76.28	13.7		19
5+50 S	5.9	-2.7	75.89	19.5		47
5+25 S	8.7	-3.4	75.95	18.6		36
5+00 S	11.3	-4.0	75.73	19.9		36
4+75 S	15.3	-5.8	75.39	21.7		25
4+50 S	18.0	-6.3	76.50	21.8		29
4+25 S	23.1	-6.6	77.24	20.1		55
4+00 S	26.9	-8.6	78.32	13.6		3
3+75 S	28.3	-11.9	80.30	16.3		39
3+50 S	33.0	-14.4	82.51	15.7		44
3+25 S	39.5	-15.0	84.51	16.2		14
3+00 S	48.5	-15.8	89.25	17.1		43
2+75 S	58.6	-15.2	99.96	20.2		33
2+50 S	71.2	-14.5	118.5	24.6		32
2+25 S	80.7	-13.5	162.4	6.7		12

EOF

OMNI-PLUS Tie-line MAG/VLF Ser #218035
VLF DATA
Date 20 JAN 87
Operator: 5001
Records: 92
Bat: 17.0 Volt Lithium: 3.48 Volt
Last time update: 1/11 12:27:00
Start of print: 1/21 10:20:29

#1	71.5	0.2	2735.	5.0	99

Pos 0+00 N Date 20 JAN 87 24.0 #2

Tie-Line	I/P	QUAD	T.FLD	DIR	CULT	S
0+00TE	19.5	44.6	85.78	-61.1		49

Pos 0+00 N Date 20 JAN 87 24.0 #3

Tie-Line	I/P	QUAD	T.FLD	DIR	CULT	S
0+25TE	17.0	51.2	83.59	-65.5		49
0+50TE	21.7	52.8	84.89	-59.8		29
0+75TE	25.7	41.8	84.32	-63.0		46
1+00TE	33.3	46.5	95.08	-67.4		18
1+25TE	36.8	24.3	123.1	-70.3		19
1+50TE	-0.3	-4.2	145.8	-77.3	HYDR	9
1+75TE	-29.1	-25.6	117.3	-74.0	HYDR	39
2+00TE	-30.2	-34.5	104.0	-73.2	HYDR	19
2+50TE	-21.5	-22.8	94.41	-68.1	HYDR	29
3+00TE	-19.8	-22.2	92.84	-64.8		49
3+25TE	-18.9	-19.6	89.73	-67.8		39
3+50TE	-17.2	-18.9	89.38	-64.2		29
3+75TE	-19.6	-13.4	88.75	-68.3		9
4+00TE	-18.1	-12.3	88.81	-68.8		29
5+00TE	-24.0	-24.5	87.23	-61.9		19
5+25TE	-22.8	-24.3	88.25	-58.6	HYDR	9
5+50TE	-28.1	-27.8	93.44	-67.2	HYDR	9
6+00TE	-34.8	-25.8	102.9	-58.6	TRAN	9
6+50TE	-38.4	-20.4	140.5	-74.6		29
7+00TE	-41.1	-30.7	118.2	-60.7		49
7+50TE	-22.6	-18.7	97.22	-61.1		39
7+75TE	-17.9	-12.6	92.69	-60.3		39
8+00TE	-12.6	-6.2	88.88	-63.1		59
8+25TE	-9.5	-2.0	85.30	-63.0		29
8+50TE	-10.9	-0.4	82.78	-64.5		39
8+75TE	-11.9	-0.9	81.17	-61.0		29
9+00TE	-13.1	-0.9	79.81	-60.8		29
9+25TE	-16.5	-1.0	78.04	-62.0		39
9+50TE	-18.3	-2.1	77.89	-55.1		39
9+75TE	-23.2	-3.7	77.73	-64.2		29
10+00TE	-32.4	-7.6	78.78	-59.2		49
10+25TE	-52.1	-14.4	84.74	-69.9		59
10+50TE	-88.7	-16.5	149.1	70.1	HYDR	39
10+75TE	58.0	18.2	108.1	-84.0		53
11+00TE	29.2	22.5	88.64	-69.6	FENC	36
11+25TE	19.1	4.7	81.41	-67.0		39
11+50TE	11.5	7.5	81.59	-70.1		49
11+75TE	8.4	6.1	81.33	-67.3		39
12+00TE	6.5	4.5	81.12	-60.3		59

12+25TE	10.1	15.1	85.07	-65.8		49
12+50TE	9.5	10.7	86.58	-67.9		49
12+75TE	13.7	11.1	93.45	-69.0		47
13+00TE	3.4	0.0	96.63	-65.8		28
13+25TE	2.0	-1.0	110.9	-74.8		36
13+50TE	-1.8	-7.3	116.9	-75.0		16
13+75TE	30.7	12.4	165.7	-77.8		23
14+00TE	34.2	37.6	109.1	-71.1		13
14+25TE	-18.2	-13.8	142.0	-74.3		48
14+50TE	5.6	1.1	167.4	-78.7		56
14+75TE	-1.7	-4.5	158.9	-74.2		36
15+00TE	-31.6	-21.5	170.9	-71.4		49
15+25TE	17.4	4.4	168.6	-76.6		25
15+50TE	19.2	5.2	174.2	-80.8		14
15+75TE	22.6	2.8	220.4	-82.5		46
16+00TE	-18.9	-12.9	204.5	-80.3		49
16+25TE	8.9	-0.3	201.0	-82.6		19
16+50TE	-107.2	35.1	650.2	-61.9		29
16+75TE	-1.0	-6.1	216.1	-81.3		9
17+00TE	-13.8	-14.6	193.7	-87.1		19
17+25TE	11.1	2.3	221.5	-87.4	RAIL	29
17+50TE	0.6	13.4	221.8	-84.1		39
17+75TE	4.1	17.9	208.1	-78.9		38
18+00TE	-13.4	9.4	187.5	-78.0		9
18+25TE	1.2	15.3	193.5	-81.6		37
18+50TE	-10.3	10.3	185.2	-81.8		19
18+75TE	5.2	21.6	168.0	-82.1		46
19+00TE	0.5	20.6	169.5	-85.4		26
19+25TE	5.3	24.5	184.4	-81.2		45
19+50TE	-14.4	16.8	172.3	-66.2		27
19+75TE	-12.3	7.6	165.3	-65.7		38
20+00TE	10.5	17.4	147.9	-75.9		14
20+25TE	-4.1	8.9	139.5	-69.2		26
20+50TE	-3.3	9.5	136.8	-68.0		16
20+75TE	7.5	9.2	137.5	-64.3		39
21+00TE	15.5	10.0	116.5	-68.7		37
21+25TE	16.2	13.1	106.5	-64.9		59
21+50TE	7.4	12.3	99.77	-74.2		17
21+75TE	0.9	9.4	98.46	-70.8		49
22+00TE	-6.7	4.3	103.1	-74.3		29
22+25TE	-12.4	3.4	115.8	-81.8		19
22+50TE	-5.2	4.6	5.81	-88.0	ROAD	24
23+00TE	2.2	4.0	110.1	-61.6		9
23+25TE	3.3	4.4	110.1	-70.8		9
23+50TE	5.2	6.0	108.8	-69.0		49
23+75TE	1.9	4.2	111.1	-85.0		19
24+00TE	6.1	6.4	113.9	-75.4		29
24+25TE	7.0	6.5	109.9	-70.6		39
24+50TE	2.2	4.6	101.4	-69.0		9
24+75TE	0.6	3.1	98.06	-66.7		29
25+00TE	1.0	3.3	98.39	-66.1		49

EOF

APPENDIX VII

Statement of Costs



COST STATEMENT
PREMIER GOLD RESOURCES INC.
DASSERAT TOWNSHIP PROPERTY
Project 87QUE013

Linecutting	25.8 km @ $235.00/km	$ 6,063.00
UTEM Survey	20.8 km @ $950.00/km	19,760.00
Magnetometer Survey		
Total Field Strength		
	25.8 km @ $ 75.00/km	1,935.00
Vertical Gradient		
	25.8 km @ $ 75.00/km	1,935.00
VLF-EM SURVEY (EDA Omni-Plus System)		
Jim Creek and Cutler channels		
	25.8 km @ $150.00/km	3,870.00
Truck Rental and Fuel	10 days @ $125.00/day	1,250.00
Accomodation	10 man days @ $90.00/day	900.00
Project Preparation		
Bob Arnold, Senior Geologist	2 days @$375.00/day	750.00
Office Overhead, Communications, Freight		1,000.00
Mobilization/Demobilization		
Vancouver - Rouyn (Senior Geol. & EDA)		2,400.00
Toronto - Rouyn (UTEM equip. & pers.)		3,600.00
Sample Analysis (gold by F.A.; 31 elements by ICP; statistical package)		
17 samples @ $18.00/sample		306.00
Assessment documentation and filing		1,500.00
Disposable field supplies		500.00
Report compilation and drafting		4,000.00
		$49,769.00
Project Management Fees @ 16.5%		8,211.89
Salaries		
D. Adamec, Project Geologist		
8 days @ $275.00/day		2,200.00
		$60,180.89

