

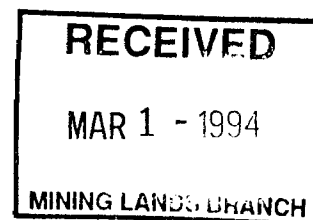


42A085E9902 2.15323 BENOIT

010

REPORT ON GEOPHYSICAL SURVEYS
OVER MINING CLAIM 1186637
BENOIT TOWNSHIP, LARDER LAKE MINING DIVISION, ONTARIO
NTS 42A/8
OPAP FILE # OP93-664

2. 15323



Jim Whelan
January 31 1994



42A08SE9902 2.15323 BENOIT

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APPENDICES

Appendix I	Results of MAXI-PROBE E.M. Survey (report, profiles and sections by M.K. Ghosh, Ph. D., P. Eng. GEOM Ltd.)
Appendix II	Raw MAXI-PROBE data and a description of the system

INTRODUCTION:

This report outlines the results of magnetic and broad band electromagnetic surveys conducted over a six unit claim located in Benoit Township, Larder Lake Mining Division, Ontario.

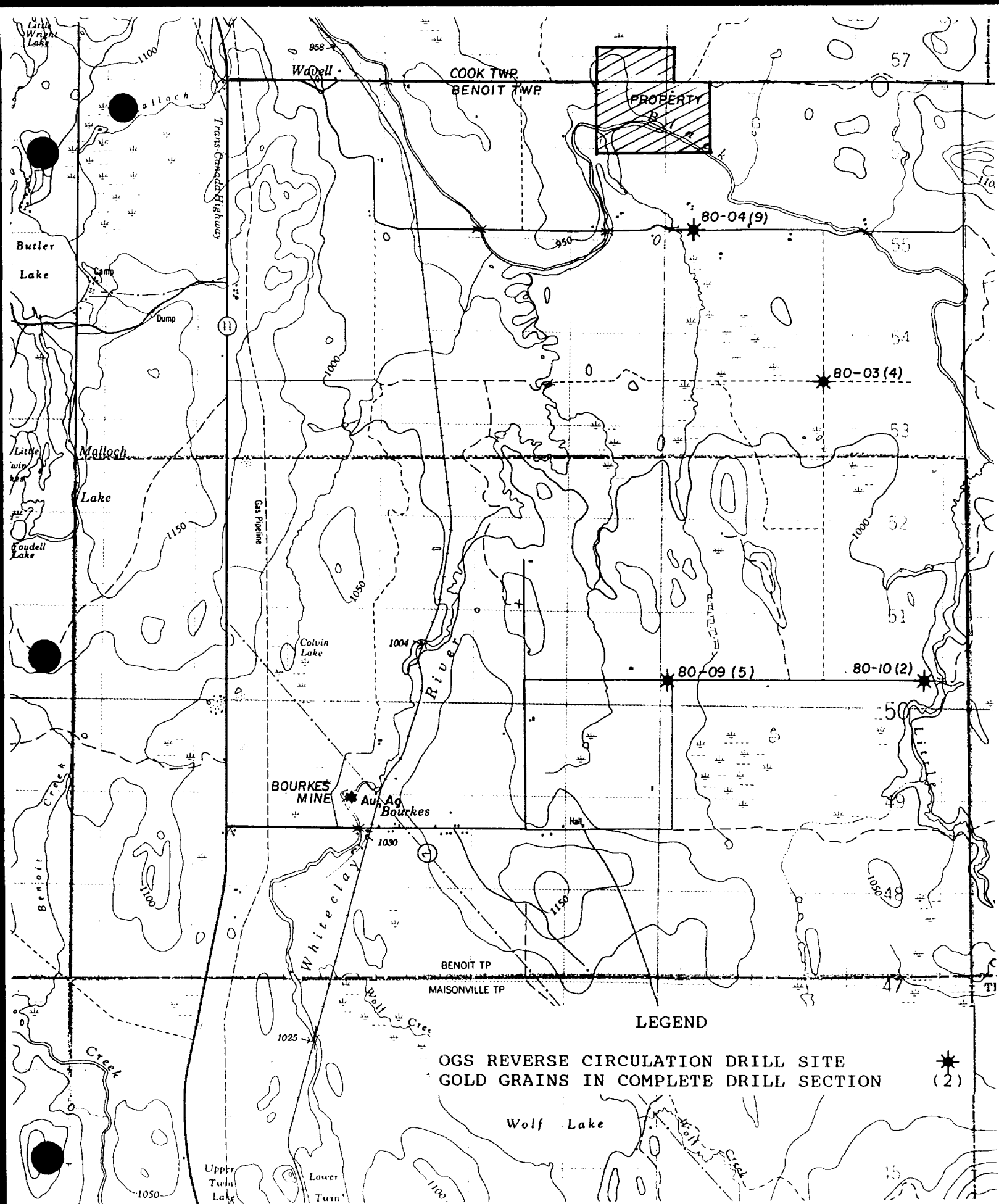
The property was staked and the work program initiated on the basis of the following: The possibility that the property may host the up-ice source of anomalous gold and gold indicator values detected in an Ontario Geological Survey till sampling program, the presence of several airborne electromagnetic anomalies, the results of work completed by previous holders and the favourable geological setting. Funding for the work program was provided by Ontario Prospectors Assistance Grant # OP93-664 issued to the author.

PROPERTY DESCRIPTION LOCATION and ACCESS:

The property consists of a six unit claim (1186637) located in the north half of lot 5 concession VI and the west half 1/2 of the north 1/2, lot 4 concession VI, Benoit Township, and a two unit claim (1202423) located in the south 1/2 of the south 1/2, lot 5 concession I, Cook township, Larder Lake Mining Division.

Jim Whelan (50%) and Stewart Carmichael (50%) both of Kirkland Lake are the recorded holders.

The property can be accessed from Highway 11, located 2.5 miles west of the west boundary, the Wavell road, and a bush road which runs along the Cook/Benoit township boundary. Supplies and services are available in the town of Kirkland Lake 15 miles southeast of the property. (fig.1)



LEGEND

OGS REVERSE CIRCULATION DRILL SITE
 GOLD GRAINS IN COMPLETE DRILL SECTION

★ (2)

**FIGURE 1 PROPERTY LOCATION PLAN
 SCALE 1:50,000**

FREQUENCY CODE

CODE	FREQUENCY kHz.
15-8	29.29
15-4	21.48
14-8	14.64
14-4	10.74
13-8	7.32
13-4	5.37
12-8	3.66
12-4	2.68
11-8	1.83
10-8	.91
9-8	.45
8-8	.22
7-8	.11

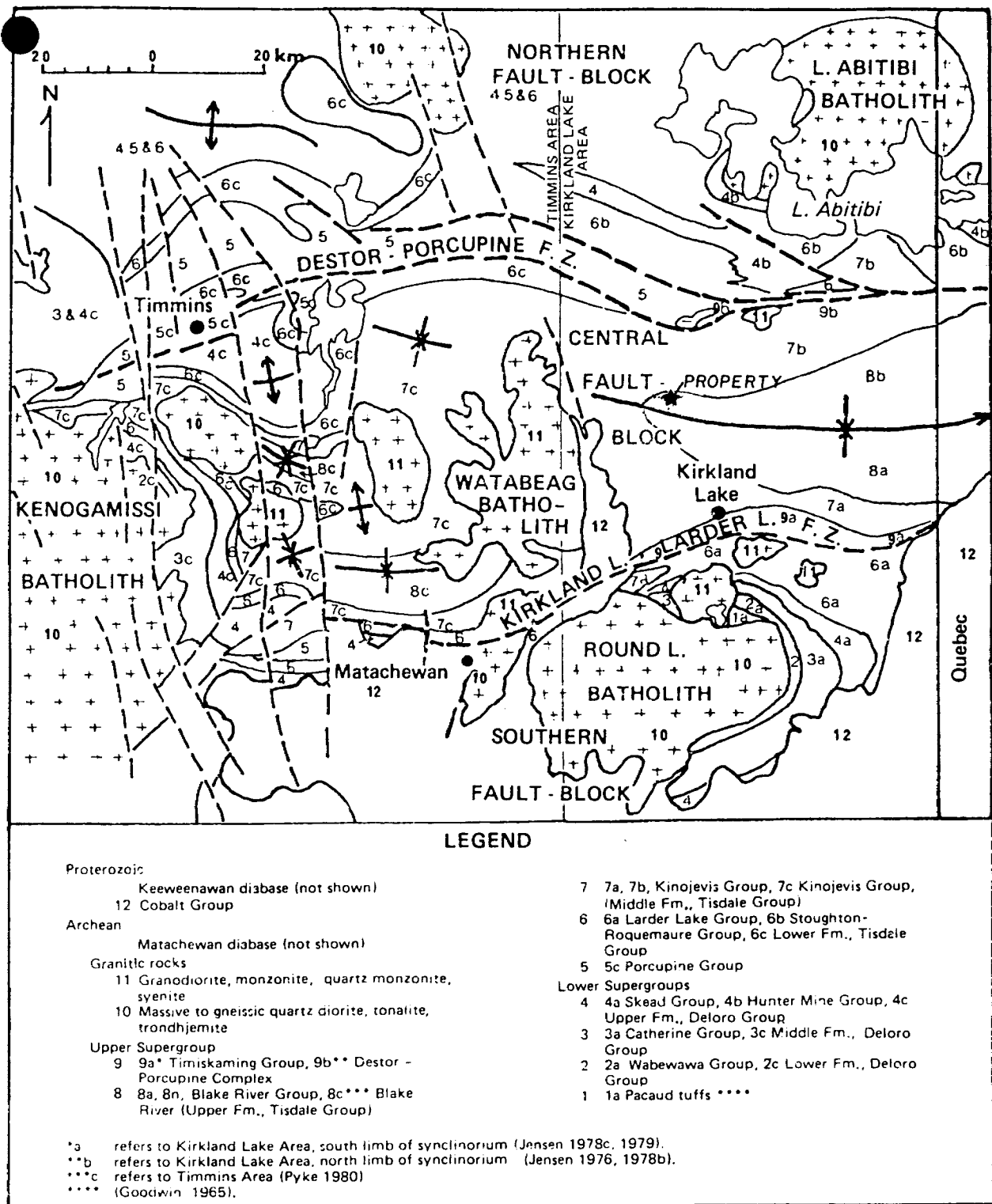


Figure 2 Geological map of the Timmins - Kirkland Lake area.

TOPOGRAPHY:

The majority of the property is drift covered (glaciolacustrine clay and silt) and of low local relief, outcrop exposure on the gridded portion of the property is limited to the small areas indicated on figure 4.

The main drainage in the area is provided by the Black River which bisects the southern portion of the property. Vegetation on the property consists of mature poplar and spruce in the well drained areas and alder and black spruce swamps in the low areas found along both sides of the Black River. In early 1993 logging operations were carried out in the northern half of claim 1186637 Benoit Twp. (fig.4)

GEOLOGY:

The property is situated in the west central portion of the Archean Abitibi Greenstone Belt. The property is located in the extreme northwest portion of the Blake River Group (calc alkalic metavolacnics) near the contact with the Kinojevis North Group (Mg-Fe rich tholeiitic basalts and pyroclastic rocks) and lies entirely within the north limb of a regional synclinorium termed the Central Fault Block. (fig.2)

The regional geology is described by H.L Lovell in Geological report 92 (1971: Ontario Department of Mines and Northern Affairs) as follows:

" The oldest rocks in the area are Keewatin-type mafic and felsic volcanic flows and pyroclastic rocks, with thin interbedded and

(or) overlying beds of sedimentary rocks. Both are cut by Haileyburian-type mafic to ultramafic stocks and sills and by Algoman type felsic stocks, cupolas, and a few sills or flows. The intrusive rocks, in turn are cut by Matachewan-type mafic dikes. Gently dipping Cobalt sedimentary rocks overlie all of the above rocks."

The property is extensively overburden covered (clay). Small outcrops of dacite, andesite, diorite and gabbro have been mapped in the north west and north central portions of the survey area an outcrop of gabbro is located off the property near the south west corner. The extension of a diabase which outcrops 1/2 mile south of the property is likely the cause of the north trending linear magnetic feature cutting through the center of the property.

PREVIOUS WORK:

The following is a summary of assessment work on file in the Kirkland Resident Geologist Office, with file numbers, as well as a listing of pertinent surveys and reports by the O.G.S and G.S.C.

1946: Peterson-Raymore Syndicate: KL2259

Report on a one day property visit by Nelson Hogg (Resident Geologist) and geologic mapping over lots 4 and 5 concession I and the north 1/2 of lot 3 concession I Cook Twp.

1971: Ontario Department of Mines Geological Report 92

In 1965-66 six townships including Benoit Twp. were mapped by H.L Lovell and assistants the report and map at a scale of 1:31680 were released in 1971

1972-73: Noranda Exploration Co., Ltd. KL2019

Electromagnetic (Vertical Loop E.M.) and magnetic surveys were conducted over 10 claims including the area covered by the current property: two east north east trending linear conductors were

located, conductor A crosses the entire width of the current claim 1202423 and conductor B crosses the entire northern half of current claim 1186637, both conductors exhibited dual frequency crossovers (1 and 5 kHz.) and the crossover amplitude and shape suggested a near surface slightly south dipping source. One hole was drilled to test the eastern end of conductor B the hole intersected dacite, dacite breccia, andesite and graphitic sections, quartz carbonate veins and fracture fillings and sulphide mineralization (pyrite, pyrrhotite, chalcopyrite, sphalerite) no further work was recorded by Noranda. (fig.3)

1979: Ontario Geological Survey

Map P2256

Airborne Input Electromagnetic and Total Field Magnetic surveys were flown over the area, three 3 channel E.M. anomalies and a north trending linear magnetic high were outlined on the property.

1980: Lacana Mining Corp.

KL1475

Conducted reconnaissance scale Horizontal Loop E.M. (Max-Min) and C.E.M. (Shootback horizontal mode) surveys over portions of current claim 1186637 the surveys confirmed the presence of Noranda's conductor B, and 3 east west lines of survey in the southeast section of the property outlined a north trending conductor which was interpreted as a fault zone containing graphite. A coarse magnetic survey using claim lines was also conducted. No further work was recorded by Lacana

1980-82: Ontario Geologic Survey

OFR 5395,5506

In 1980 the Ontario Geological Survey initiated glacial drift studies in the area till samples were collected by reverse circulation drilling and backhoe pits, in 29 townships including Benoit Twp. Of interest are the results of two holes 80-04 and 80-03 located 1/2 mile and 1.5 miles respectively in a down ice direction from the property. In these two holes the tills are intercalated with locally derived volcanic rich gravels and contain up to 65% carbonates, as well as tourmaline, rutile, hematite, sulphides sericite, apatite and chlorite. Tellurides occur in hole 80-04 along with anomalous gold values, hole 80-03 also contained chalcopyrite and anomalous gold values. The results from these two holes suggest the area up-ice would be of interest for gold exploration. (fig.1)

1983: Golden Cradle Resources Ltd.

KL978

Conducted magnetic and VLF electromagnetic surveys over parts of 30 claims in Benoit and Cook townships including the area covered by the current claims, no major magnetic feature was located and the VLF survey outlined a few conductors some of which coincided with

previous work.

1985: Domego Resources Ltd.

KL695

Mapped parts of 30 claims in Benoit and Cook townships including the area covered by the current claims. The area covered by the current grid showed less than 2% outcrop exposure, the outcrops consisting of mafic to intermediate intrusives and intermediate to felsic volcanics. An area of outcrop south of the Black River, located during the current work program was missed by this mapping survey. Further work was recommended, none was performed and the claims were allowed to lapse.

1993: Geological Survey of Canada Maps 20371G,25053G 1:20,000

Airborne electromagnetic (GEOTEM time domain) and magnetic surveys were flown over the Blake River Syncline. Ten 3-12 channel E.M. anomalies were located on or near the property boundary. The results of this survey coupled with the results of the OGS till sampling and the work conducted by Noranda prompted the current holders to stake the property and initiate an exploration program.

Survey Procedure and Results:

Line cutting: A total of 9.07 kilometres of line were cut and chained at 125 meter intervals covering the entire Benoit Twp. claim. The Benoit Cook boundary was utilized as a baseline.

MAXI-PROBE E.M.:

Description of system: The MAXI-PROBE E.M. is a wide band electromagnetic system which measures the total field in two components. From the measured data E.M. profiles (tilt angle, quadrature, ellipticity), apparent resistivity vs. depth sections, and apparent resistivity vs. frequency pseudo sections can be calculated and plotted. The system is able to penetrate thick conductive and non conductive overburden, detect weakly conductive bodies and resolve multiple conductor situations.

Survey parameters: Thirteen frequencies in the 100 to 30,000 Hz.

range were read at 25 meter intervals on 8 north south grid lines. The transmitter receiver separation was fixed at 200 meters, with the transmitter in the south (the indicated down dip direction). Line (5+00E) was also surveyed with the transmitter north of the receiver to check for north dipping conductors. The 200 meter spread was adequate to obtain E.M. responses down to 200 meters depth in the conductive overburden which covers the property. The following lines were surveyed 0+35E, 1+25E, 2+50E, 3+75E, 5+00E, 6+25E, 8+75E & 11+25E.

Results: A number of definite conductors and parallel conductive zones were detected in the survey, as opposed to the one linear conductive zone outlined by Noranda. the conductors range in amplitude from strong wide zones to weak minor conductors.

These weak conductors may represent shear zones and as such may be important for gold exploration.

Overburden thickness are estimated to vary from 0 to less than 100 meters in depth. For a more detailed description of the survey results, and the profiles and sections, the reader is referred to Appendix I, as prepared by Mrinal K.Ghosh, Ph. D., P. Eng.

Magnetic: Total field magnetic and vertical magnetic gradient values were recorded at 25 meter intervals on all of the crosslines. A Scintrex IGS-2 system was used as a field unit, vertical gradient data was acquired at a fixed sensor separation of 1 meter. Diurnal control was maintained using a cycling base station (Scintrex MP-4) magnetometer set up at 11+25E 0+25S.

Results: The magnetic survey results show the area to be of low

local magnetic relief. A north trending magnetic high crossing the property is probably caused by the extension of a diabase dyke which outcrops 1/2 mile south of the property. No direct correlation between magnetic features and the E.M. conductors was observed.

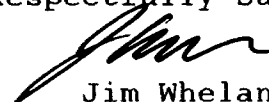
Conclusions and Recommendations:

In light of the results of previous work, particularly that of the OGS till sampling program and the Noranda drill hole (which reported several intersections of quartz carbonate and talc carbonate veins as well as mineralized fracture fillings containing pyrrhotite, pyrite, chalcopyrite, sphalerite and graphite.) and the fact that a number of new conductive zones have been outlined, further work on this property is warranted.

Future work programs should include the following:

Lines 7+50E and 10+00 E should be covered by the MAXI-PROBE survey. Cross lines should be extended north across claim 1202423, covering the conductor outlined by Noranda. Two detail grid lines should be established at 2+00 E and 3+00 E from 2+00N to 4+00S in order to determine the strike and extent of the strong conductor located at 2+50E, 0+50S. MAXI-PROBE E.M. and magnetic surveys should be conducted over the new grid lines, followed by drill testing of the most favourable targets.

Respectfully Submitted


Jim Whelan

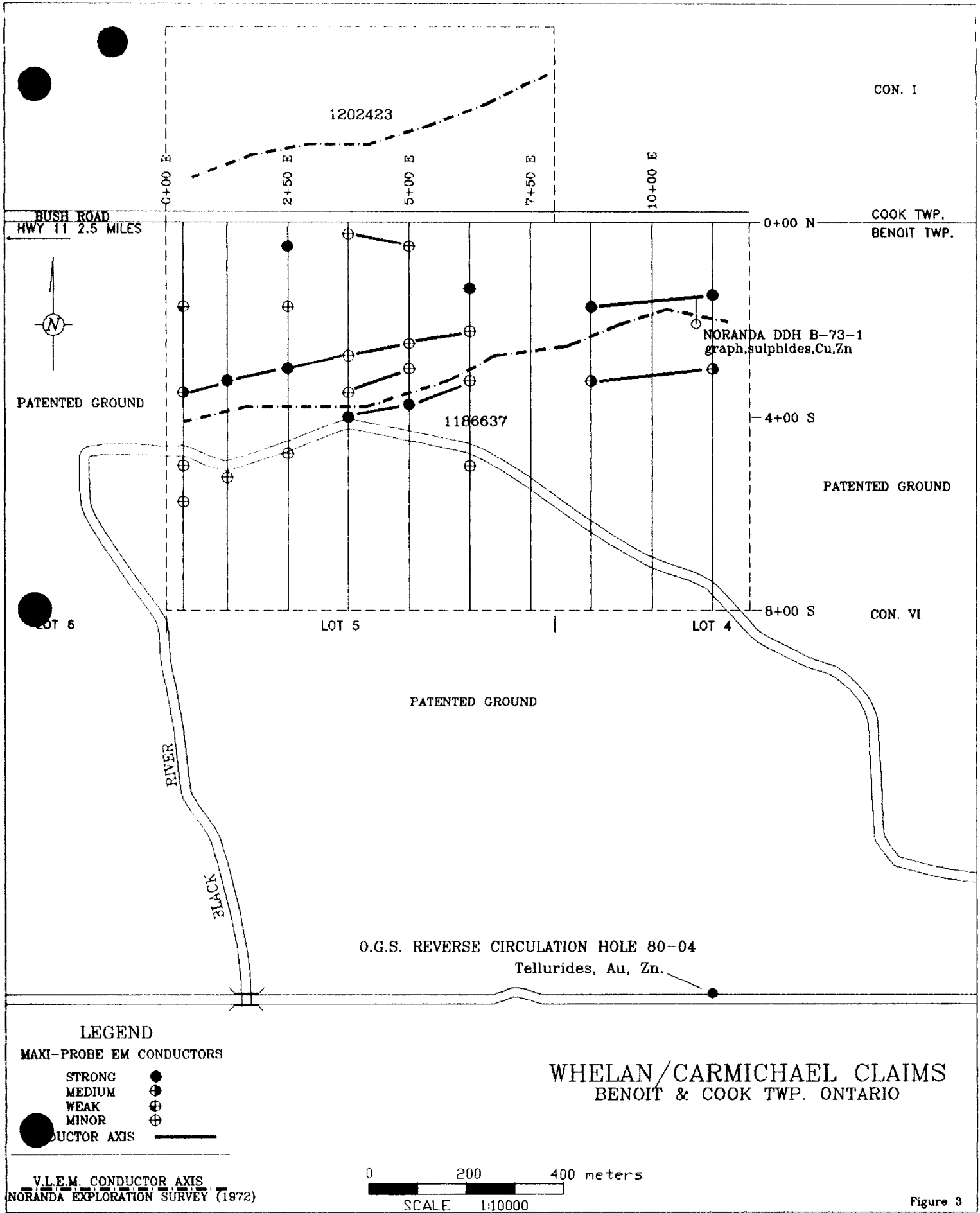
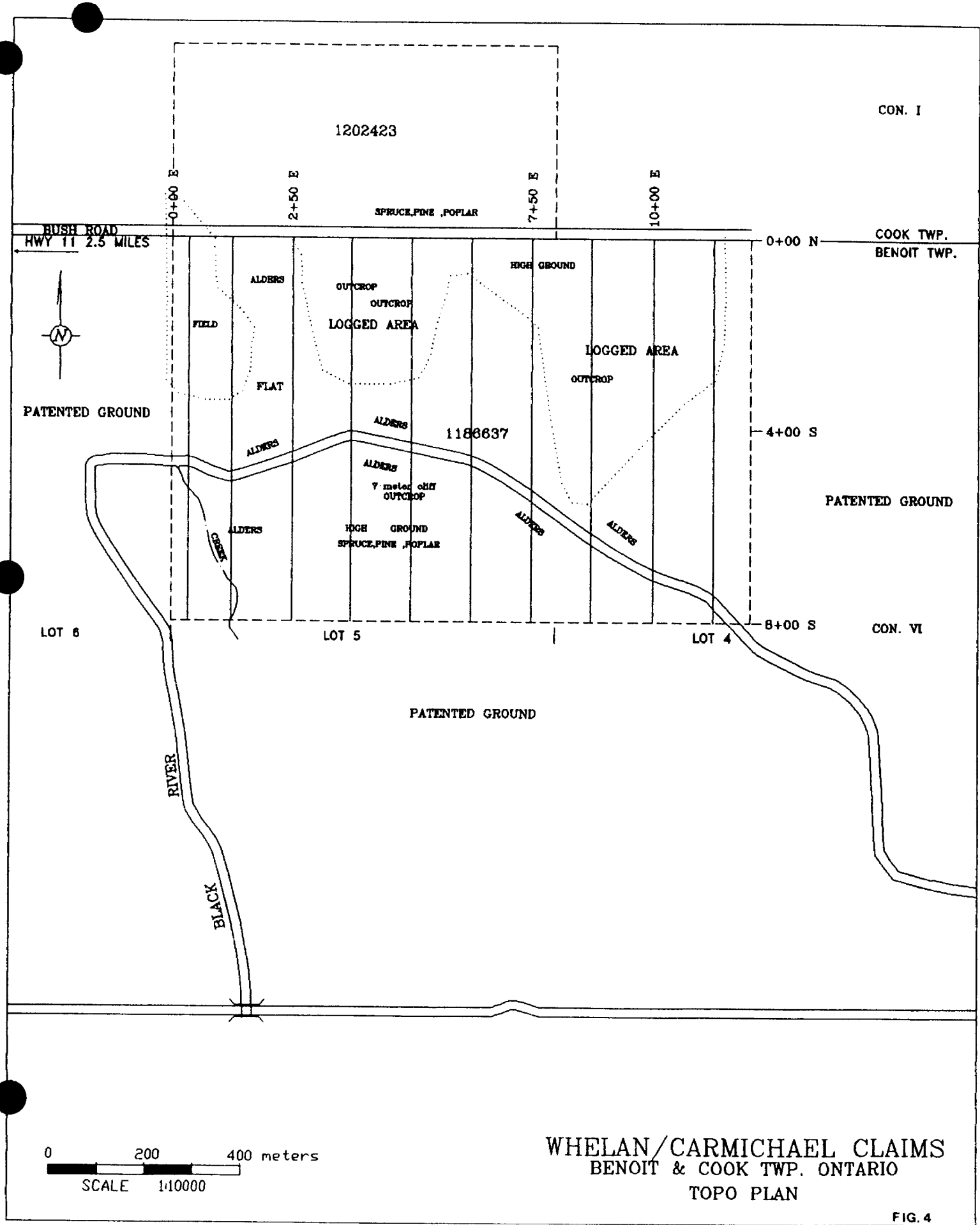


Figure 3



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1986: Mineralization and Volcanic Stratigraphy in the Western Part of the Abitibi Subprovince; in Ontario Geological Survey Miscellaneous Paper 129 Volcanology and Mineral Deposits p.69-87
- Jensen L.S.
1985: Geology and Petrogenesis of the Archean Abitibi Belt, in the Kirkland Lake Area, Ontario; Ontario Geological Survey, Miscellaneous Paper 123 130p and maps
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1971: Geology of the Bourkes Area, District of Timiskaming Ont. Dept. of Mines and Northern Affairs Geological Report 92 37p. and 3 maps scale 1:31,680
- Ontario Geological Survey
1979: Airborne Electromagnetic and Total Intensity Magnetic Survey, Kirkland Lake Area, Benoit Township District of Cochrane, Preliminary Map P2250 scale 1:20,000
- Ontario Ministry of Northern Development and Mines assessment work files, Kirkland Lake Resident Geologists Office:
- | | |
|------------------------------|---------------|
| Domengo Resources | file # KL695 |
| Golden Cradle Resources | file # KL978 |
| Lacana Mining Corp | file # KL1475 |
| Noranda Exploration Co. Ltd. | file # KL2019 |
| Peterson Raymore Syndicate | file # KL2259 |

CERTIFICATE OF QUALIFICATIONS

I, Jim M. Whelan do hereby certify:

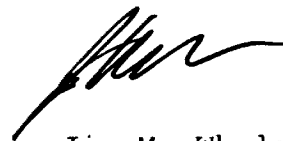
that I am a Geotechnician residing at 114 Main Street, in the town of Kirkland Lake, Ontario;

that I have been practising my profession continuously since 1980;

that I am a member of the Prospectors and Developers Association of Canada, and the Canadian Institute of Mining and Metallurgy;

that I have personally conducted the subject geophysical surveys, and have reviewed all of the documents mentioned herein.

Dated at Kirkland Lake, Ontario, this 31st day of January 1994



Jim M. Whelan

Appendix I
Report on MAXI-PROBE E.M. Survey
by M.K. Ghosh

GEO-EM INC.

5468 DUNDAS STREET WEST
SUITE 701,
TORONTO, ONTARIO
CANADA M9B 6E3

TELEPHONE: (416) 234-6822

FACSIMILE: (416) 234-1564

RESULTS OF
MAXI-PROBE E.M. SURVEY
AT
BENOIT TWP., ONTARIO
for
JIM WHELAN

JANUARY 26, 1994

Survey by: GEOEM INC.

GEO-EM INC.

5468 DUNDAS STREET WEST
SUITE 701,
TORONTO, ONTARIO
CANADA M9B 6E3

TELEPHONE: (416) 234-6822
FACSIMILE: (416) 234-1564

RESULTS OF MAXI-PROBE E.M. SURVEY AT BENOIT TWP.

At the request of Jim Whelan, GEOEM INC carried out a high resolution E.M. survey using the MAXI PROBE system at Benoit Twp., Ontario in the later part of January 1994. The survey was performed on eight lines at the main grid. Each line of survey is approximately 500 metres long. Jim Whelan was the crew chief who conducted the survey and operated the receiver. Two assistants were used at the transmitter station.





Measurements were recorded at thirteen frequencies in the range 100 to 30,000 hertz for both the vertical and horizontal magnetic fields at each frequency at all stations. The transmitter and the receiver distance was fixed at 200 metres and the array was moved in tandem along the survey lines. This spread of 200 metres was adequate to obtain E.M. responses down to 200 metres depth in this area covered by conductive overburden. The receiver station is the measurement & the plotting point in this survey. One multi-turn 10 metre long cable was laid out on the ground surface as a close loop which served as the transmitter antenna. The transmitter was kept to the south which is the known preferred dip direction in this area. This provided the best E.M. coupling with the conductors. At the receiver station, a two directional antenna (ferrite core) was used to pick-up the vertical & horizontal magnetic fields. The ratio of the amplitudes of these magnetic fields and their phase differences were recorded for each frequency at the receiver station.

The following lines were surveyed: 0+35E, 125E, 250E, 375E, 500E 625E, 875E & 1125E. The line 500E was surveyed a second time keeping the transmitter to the north to check if there may be any northerly dipping conductor. This survey-line was named 500EN.

The survey results were processed by the computer and the results were presented as profiles of the "tilt-angle" and "Quad" for all the frequencies on each line. For some lines, colored sections

using "tilt-angles" to compute "apparent resistivity" and "apparent depth". These are called "depth-section" and "pseudo-section".

The shallow layering of the low resistivities of the "depth-sections" represent the conductive overburden. The conductors are recognized as steeply dipping conductive units in these "depth-sections". The E.M. responses in this area are rather complex due to the following reasons: high conductivity of the overburden, variable thickness & often pinchout of this overburden, and presence of multiple conductors. The thickness of overburden in this area is estimated to vary from 0 to less than 100 metres. Because of the complexity of the E.M. responses in this survey, it is found that the "tilt-angle" profiles are the easiest to interpret the survey results. The conductors detected in this survey have been marked on the "tilt-angle" profiles and the "depth-sections" These conductors have been classified as follows:

<u>SYMBOL</u>	-	<u>CONDUCTOR TYPE</u>
	-	Good & Wide Zone
	-	Medium
	-	Weak
	-	Minor

Six definite conductors A, B, C, D, E & F were detected in this survey. They have been outlined on a plan map of the survey grid. The minor isolated conductors may not have any significance for massive sulphide exploration. The good conductors may consist of several conductors in a zone. Since the line 750E was not surveyed, it is not evident if the conductor "A" joins the conductor "E" or "C"! It should be investigated if the conductor "G" joins "E" by surveying a line in between the lines 250E and 375E. At the same time the line 750E should be surveyed. Two isolated good conductors on lines 625E & 250E may be important if they can be confirmed on closer parallel lines. At the end of the lines at the north-west part of the grid, there is evidence of conductors present north of the grid. Therefore, it is important to survey the lines at this north-west part extending the lines northwards.

The overburden is thinner in the central portion of the grid.
And it is progressively deeper in east and also in the west.

Because the overburden is quite conductive and thick, it interacts with the current flow in the bedrock conductors. One very important effect of this is to shift the anomaly peak by 25 to 50 metres for this thickness of the overburden. It is therefore recommended that significant allowance is to be made while selecting the location of the drill collar.

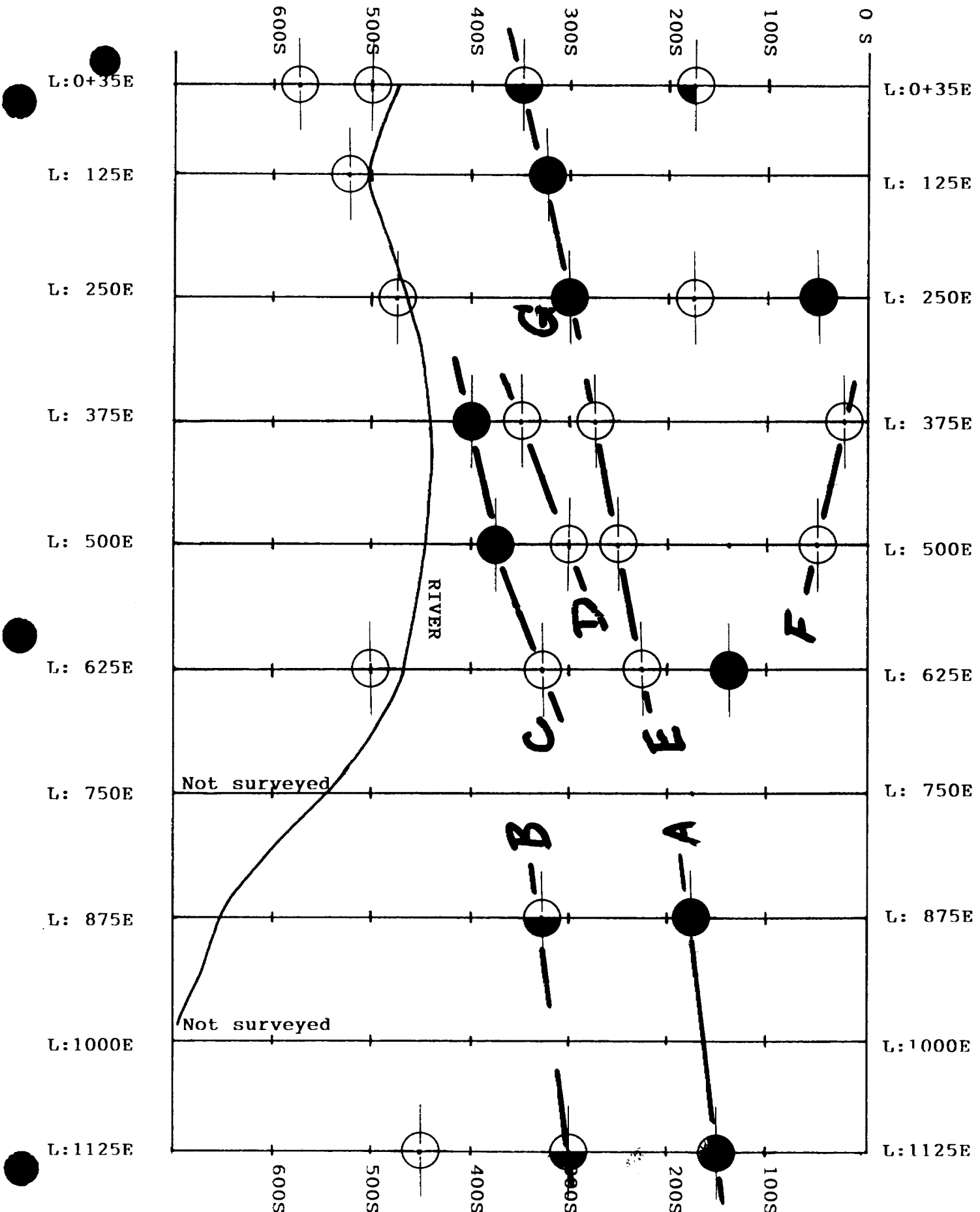
Respectfully submitted by,

GEOEM INC



Mrinal K. Ghosh, Ph. D., P. Eng.

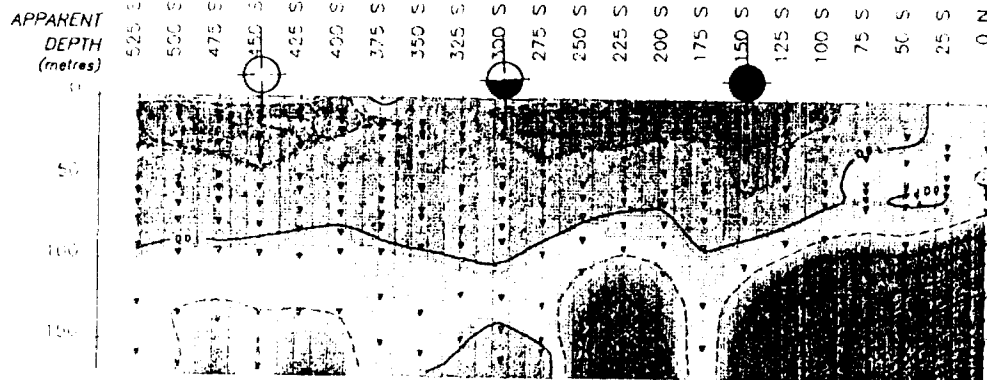
Dated the 26th January, 1994 at Toronto.



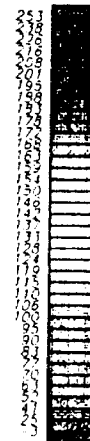
MAXI-PROBE SURVEY GRID, BENOIT TWP., ONT. JANUARY/94
 Survey for: Jim Whelan

DEPTH SECTION of App. Resistivity (ohm-metres)
from MAXI-PROBE E.M. Survey

LINE 1125+00E



APPARENT DEPTH (metres)



JIM WHELAN
AREA: BENOIT TWP., ONT.

SURVEY BY GEOEM INC.
GRID: MAIN DATE: JAN./1994

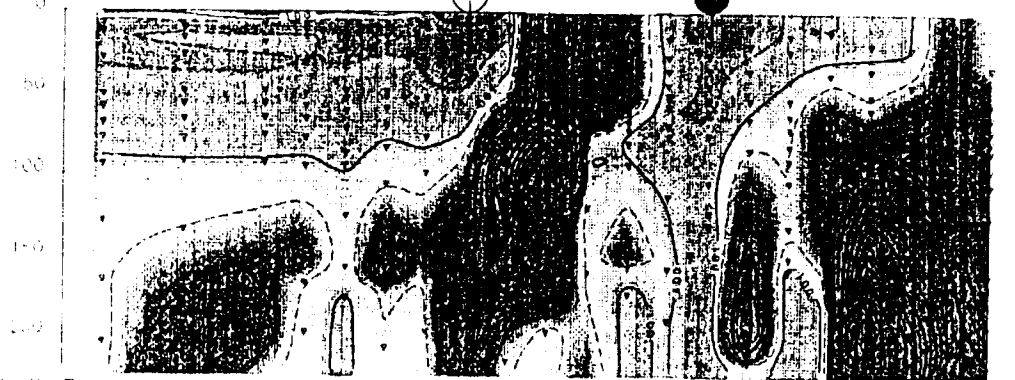
OPERATOR: JIM WHELAN
TX--200M--RX

JOB No. 406

DEPTH SECTION of App. Resistivity (ohm-metres)
from MAXI-PROBE E.M. Survey

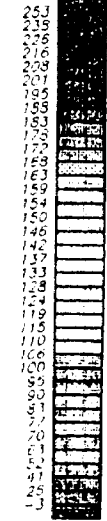
LINE 875+00E

APPARENT DEPTH (metres) 550 S 500 S 450 S 425 S 400 S 375 S 350 S 325 S 300 S 275 S 250 S 225 S 200 S 175 S 150 S 125 S 100 S 75 S 50 S 25 S 0 N



APPARENT DEPTH (metres)

0
50
100
150
200



JIM WHELAN
AREA: BENOIT TWP., ONT.

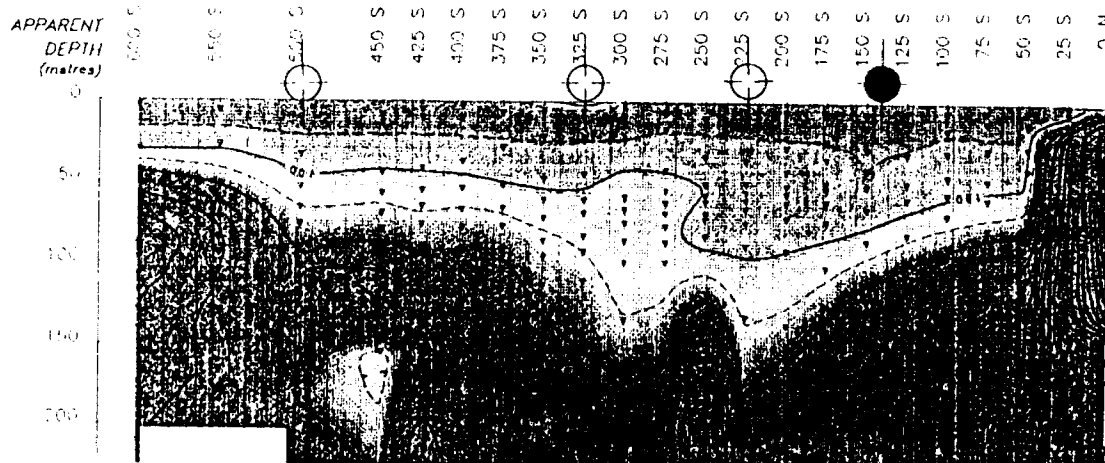
SURVEY BY GEOEM INC.
GRID: MAIN DATE: JAN./1994

OPERATOR: JIM WHELAN
TX--200M--RX

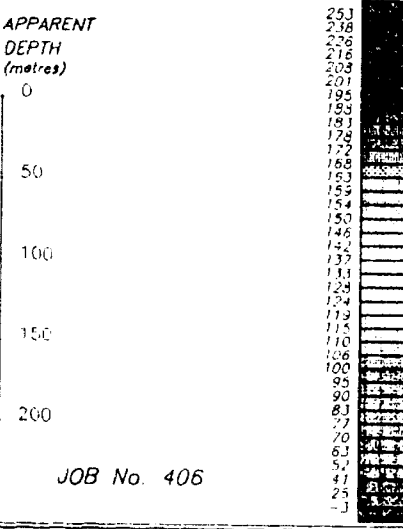
JOB No. 406

DEPTH SECTION of App. Resistivity (ohm-metres)
from MAXI-PROBE E.M. Survey

LINE 625+00E



APPARENT
DEPTH
(metres)



JIM WHELAN
AREA: BENOIT TWP., ONT.

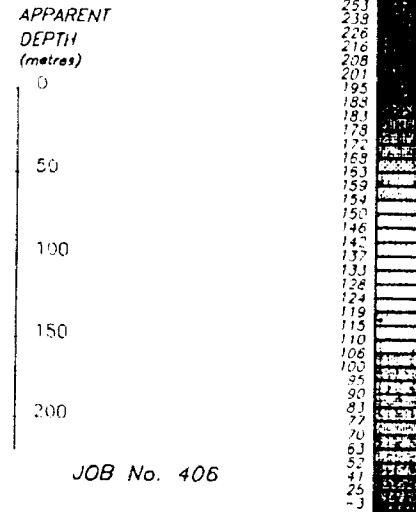
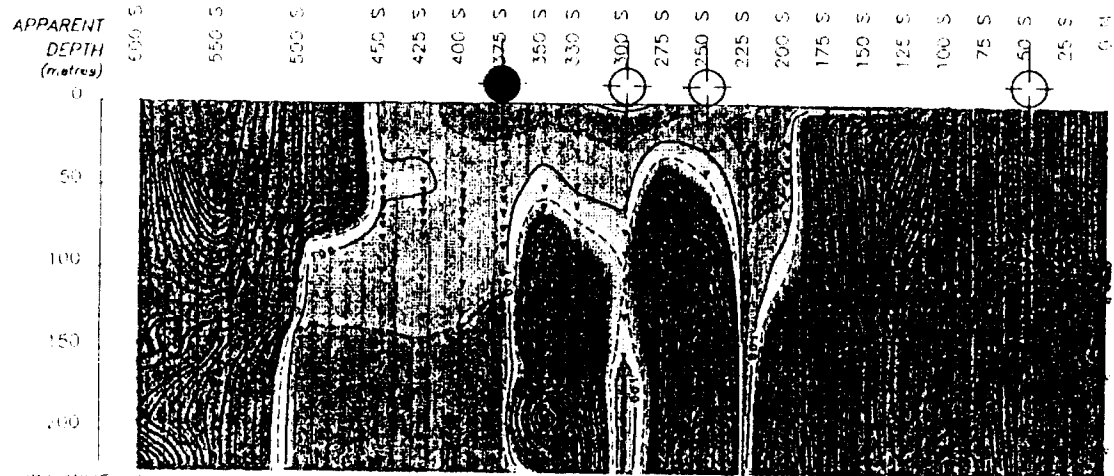
SURVEY BY GEOEM INC.
GRID: MAIN

OPERATOR: JIM WHELAN
DATE: JAN./1994 TX--200M---RX

JOB No. 406

DEPTH SECTION of App. Resistivity (ohm-metres)
from MAXI-PROBE E.M. Survey

LINE 500+00E



JIM WHELAN
AREA: BENOIT TWP., ONT.

SURVEY BY GEOM INC.
GRID: MAIN DATE: JAN./1994

OPERATOR: JIM WHELAN
TX--200M--RX

JOB No. 406

251
238
226
216
208
201
195
188
183
178
174
169
163
159
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137
133
128
124
119
115
110
106
100
95
90
85
81
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70
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25
-3

PSEUDO-SECTION OF APP. RESISTIVITY (ohm-metres)

from MAXI-PROBE E.M. Survey

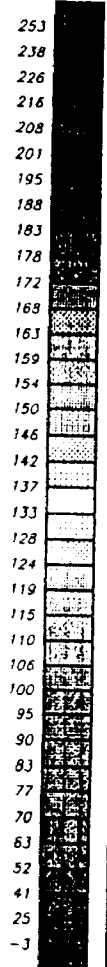
LINE 125+00E

FREQ CODE
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 13-4
 12-8
 12-4
 11-8
 10-8
 9-8
 8-8

600 S
 575 S
 550 S
 525 S
 500 S
 475 S
 450 S
 425 S
 400 S
 375 S
 350 S
 325 S
 300 S
 275 S
 250 S
 225 S
 200 S
 175 S
 150 S
 125 S
 100 S
 75 S
 50 S
 25 S



FREQ (kHz)
 29.296
 21.484
 14.648
 10.742
 7.324
 5.371
 3.662
 2.685
 1.831
 .915
 .457
 .228



JIM WHELAN
 AREA: BENOIT TWP., ONT.

SURVEY BY GEOEM INC.
 GRID: MAIN DATE: JAN./1994

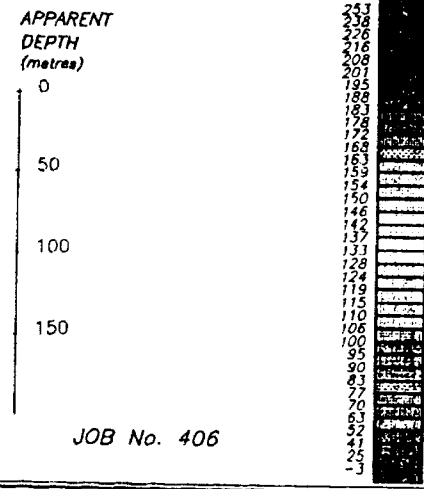
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 TX--200M--RX

JOB No. 406

DEPTH SECTION of App. Resistivity (ohm-metres)
from MAXI-PROBE E.M. Survey

LINE 125+00E

APPARENT DEPTH (metres) 600 S 575 S 550 S 525 S 500 S 475 S 450 S 425 S 400 S 375 S 350 S 325 S 300 S 275 S 250 S 225 S 200 S 175 S 150 S 125 S 100 S 75 S 50 S 25 S 0 N



JIM WHELAN
AREA: BENOIT TWP., ONT.

SURVEY BY GEDEM INC.
GRID: MAIN DATE: JAN./1994

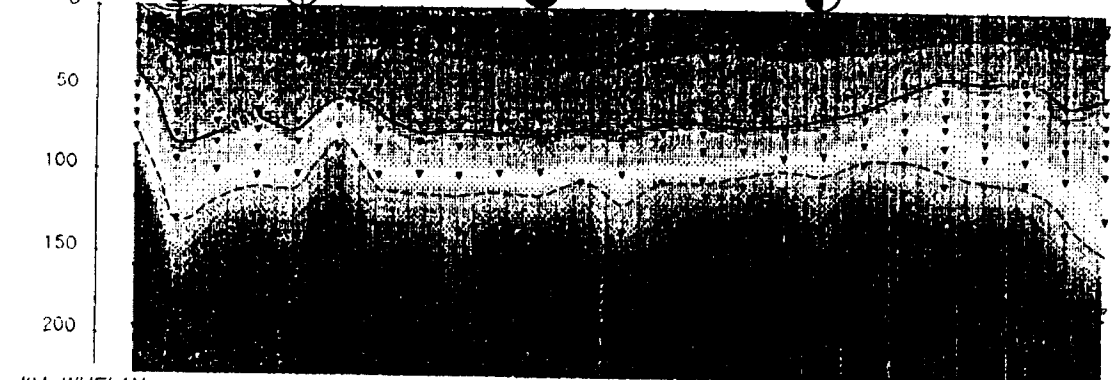
OPERATOR: JIM WHELAN
TX--200M--RX

JOB No. 406

DEPTH SECTION of App. Resistivity (ohm-metres)
from MAXI-PROBE E.M. Survey

LINE 035+00E

APPARENT DEPTH (metres) 600 S 575 S 550 S 525 S 500 S 475 S 450 S 425 S 400 S 375 S 350 S 325 S 300 S 275 S 250 S 225 S 200 S 175 S 150 S 125 S 100 S 75 S 50 S 25 S 0 N



APPARENT DEPTH (metres)

0
50
100
150
200

253
238
226
216
208
201
195
188
183
178
172
168
163
159
154
150
146
142
137
133
128
124
119
115
110
106
100
95
90
81
77
70
63
52
41
25
-3

JIM WHELAN
AREA: BENOIT TWP., ONT.

SURVEY BY GEOEM INC.
GRID: MAIN

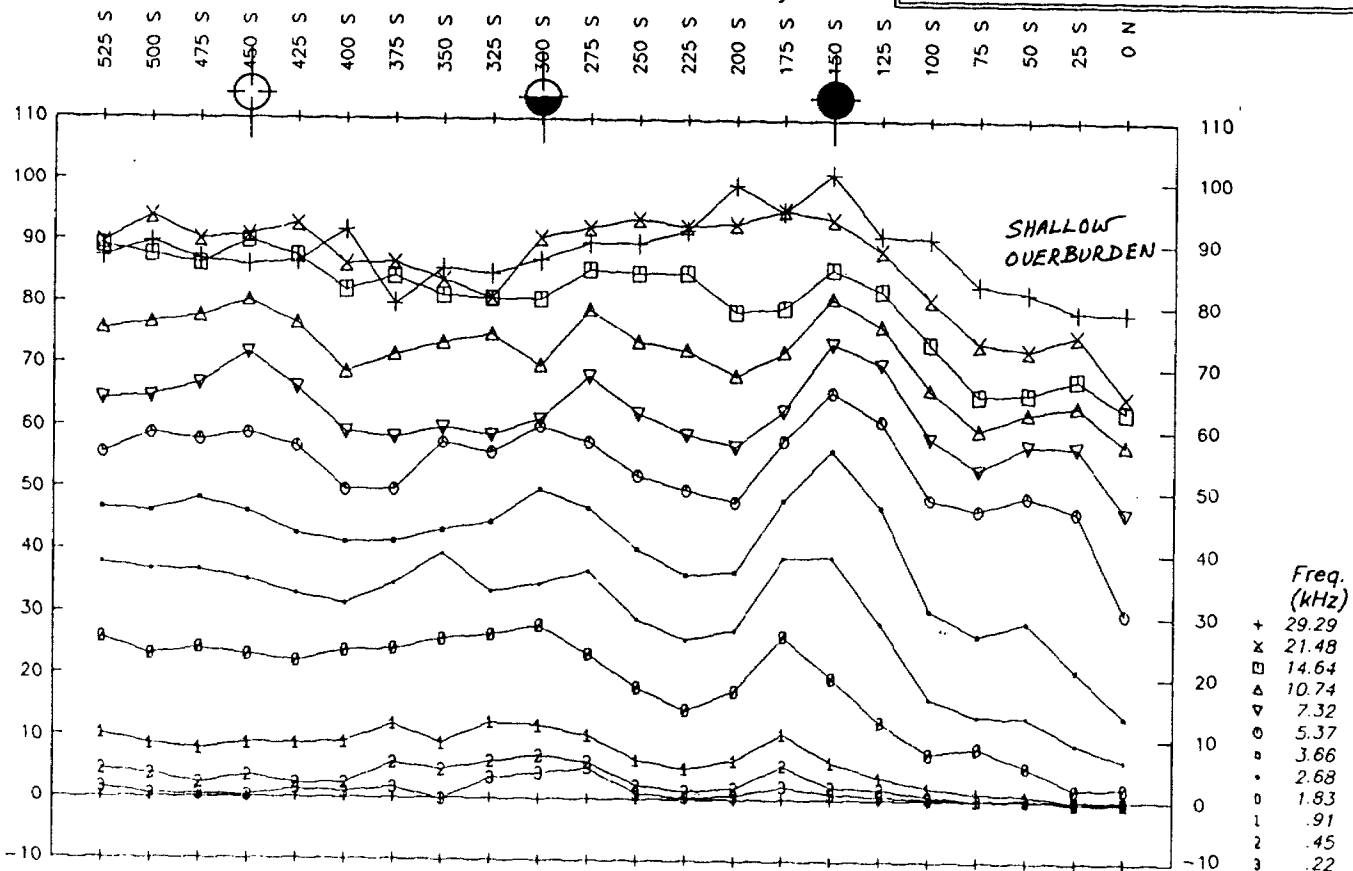
DATE: JAN./1994

OPERATOR: JIM WHELAN
TX--200M--RX

JOB No. 406

PROFILE OF TILT (degrees)
from MAXI-PROBE E.M. Survey

LINE 1125+00E



JIM WHELAN

AREA: BENOIT TWP., ONT.

SURVEY BY GEOEM INC.

GRID: MAIN

OPERATOR: JIM WHELAN

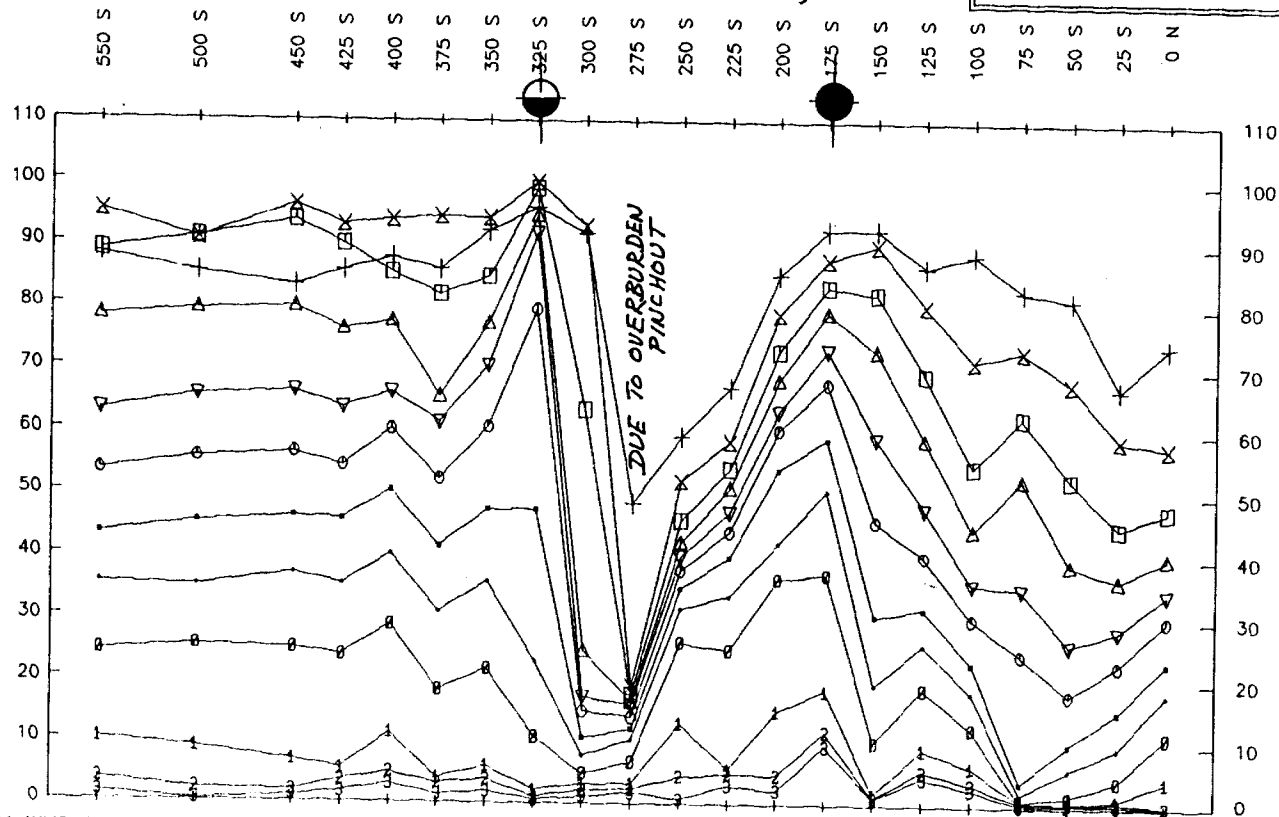
DATE: JAN./1994

TX--200M--RX

JOB No. 406

PROFILE OF TILT (degrees)
from MAXI-PROBE E.M. Survey

LINE 875+00E



JIM WHELAN
AREA: BENOIT TWP., ONT.

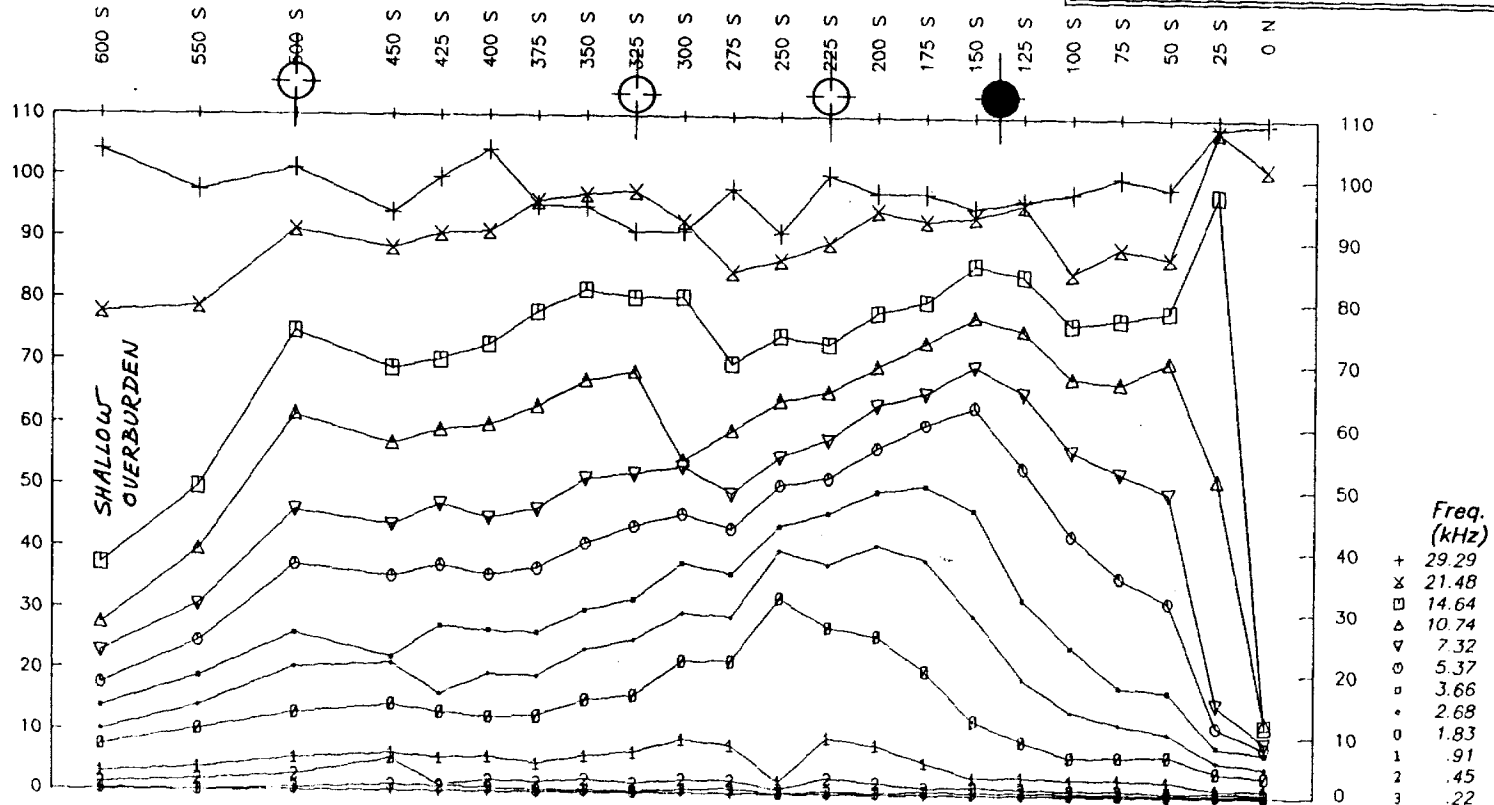
SURVEY BY GEOEM INC.
GRID: MAIN DATE: JAN./1994

OPERATOR: JIM WHELAN
TX--200M--RX

JOB No. 406

PROFILE OF TILT (degrees)
from MAXI-PROBE E.M. Survey

LINE 625+00E



JIM WHELAN

AREA: BENOIT TWP., ONT.

SURVEY BY GEOEM INC.

GRID: MAIN

OPERATOR: JIM WHELAN

DATE: JAN./1994

TX--200M--RX

JOB No. 406

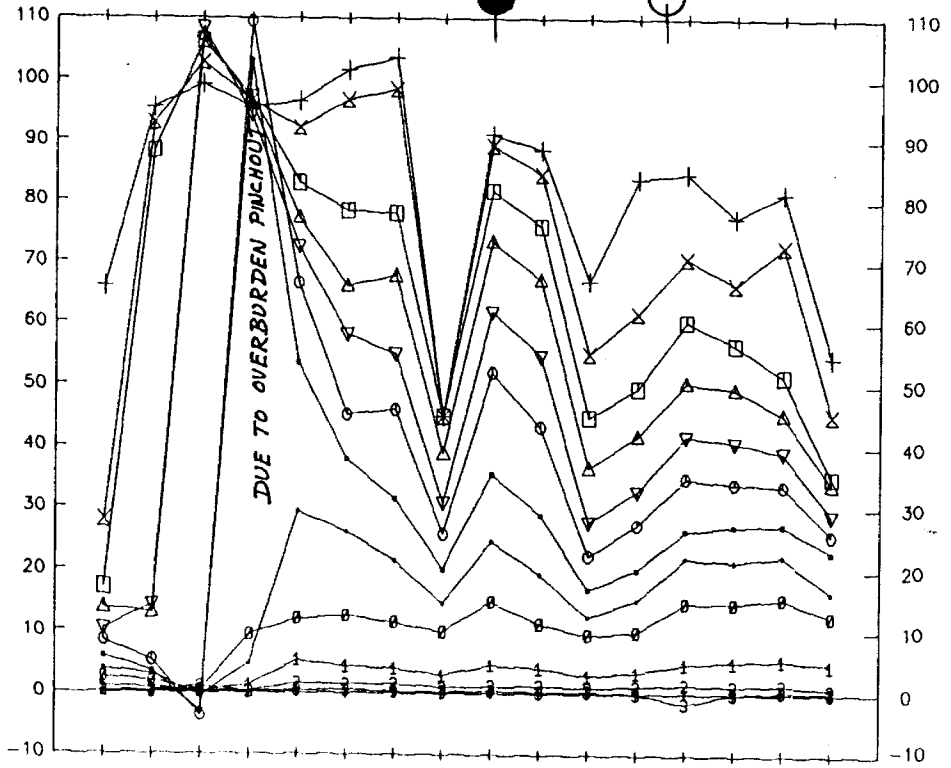
PROFILE OF TILT (degrees)

from MAXI-PROBE E.M. Survey

LINE 500+00EN

Tx IN NORTH

575 S
550 S
525 S
500 S
475 S
450 S
425 S
400 S
375 S
350 S
325 S
300 S
275 S
250 S
225 S
200 S



JIM WHELAN

SURVEY BY GEDEM INC.

OPERATOR: JIM WHELAN

JOB No. 406

AREA: BENOIT TWP., ONT.

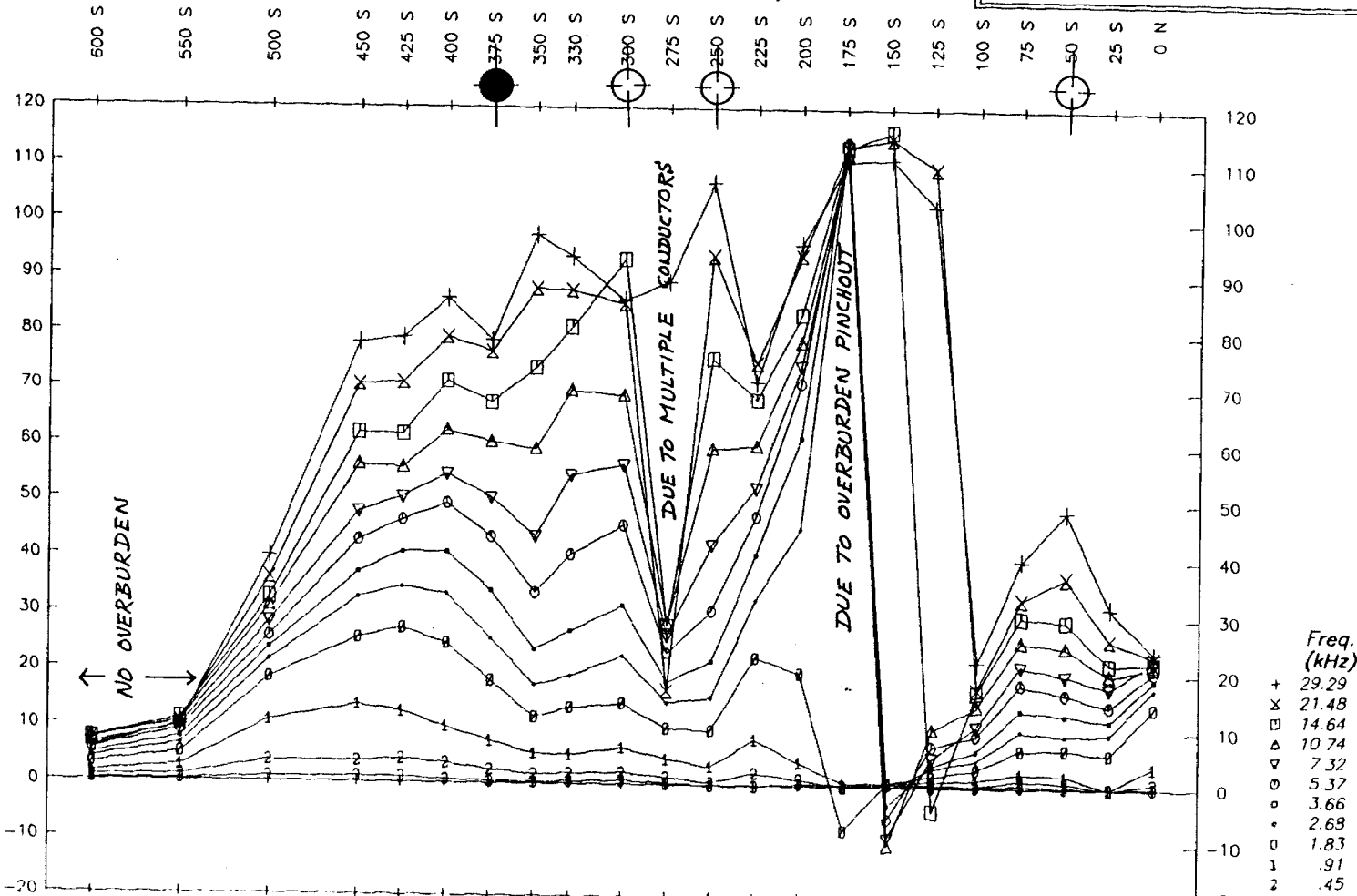
GRID: MAIN

DATE: JAN./1994

RX--200M--TX

PROFILE OF TILT (degrees)
from MAXI-PROBE E.M. Survey

LINE 500+00E



JIM WHELAN
AREA: BENOIT TWP., ONT.

SURVEY BY GEOEM INC.
GRID: MAIN DATE: JAN./1994

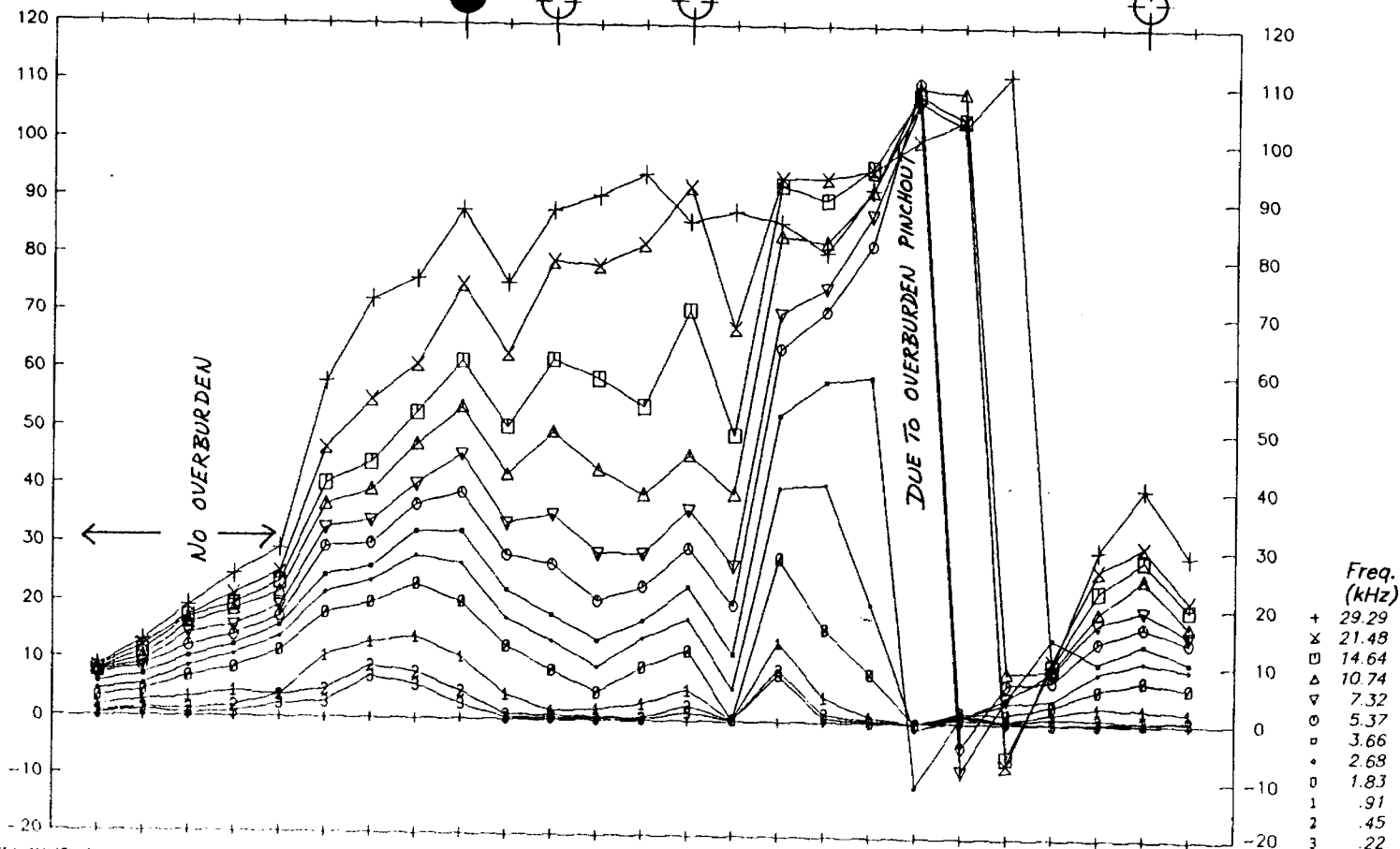
OPERATOR: JIM WHELAN
TX--200M--RX

JOB No. 406

PROFILE OF TILT (degrees)
from MAXI-PROBE E.M. Survey

LINE 375+00E

600 S 575 S 550 S 525 S 500 S 475 S 450 S 425 S 400 S 375 S 350 S 325 S 300 S 275 S 250 S 225 S 200 S 175 S 150 S 125 S 100 S 75 S 50 S 25 S 0 N



JIM WHELAN
AREA: BENOIT TWP., ONT.

SURVEY BY GEOEM INC.
GRID: MAIN

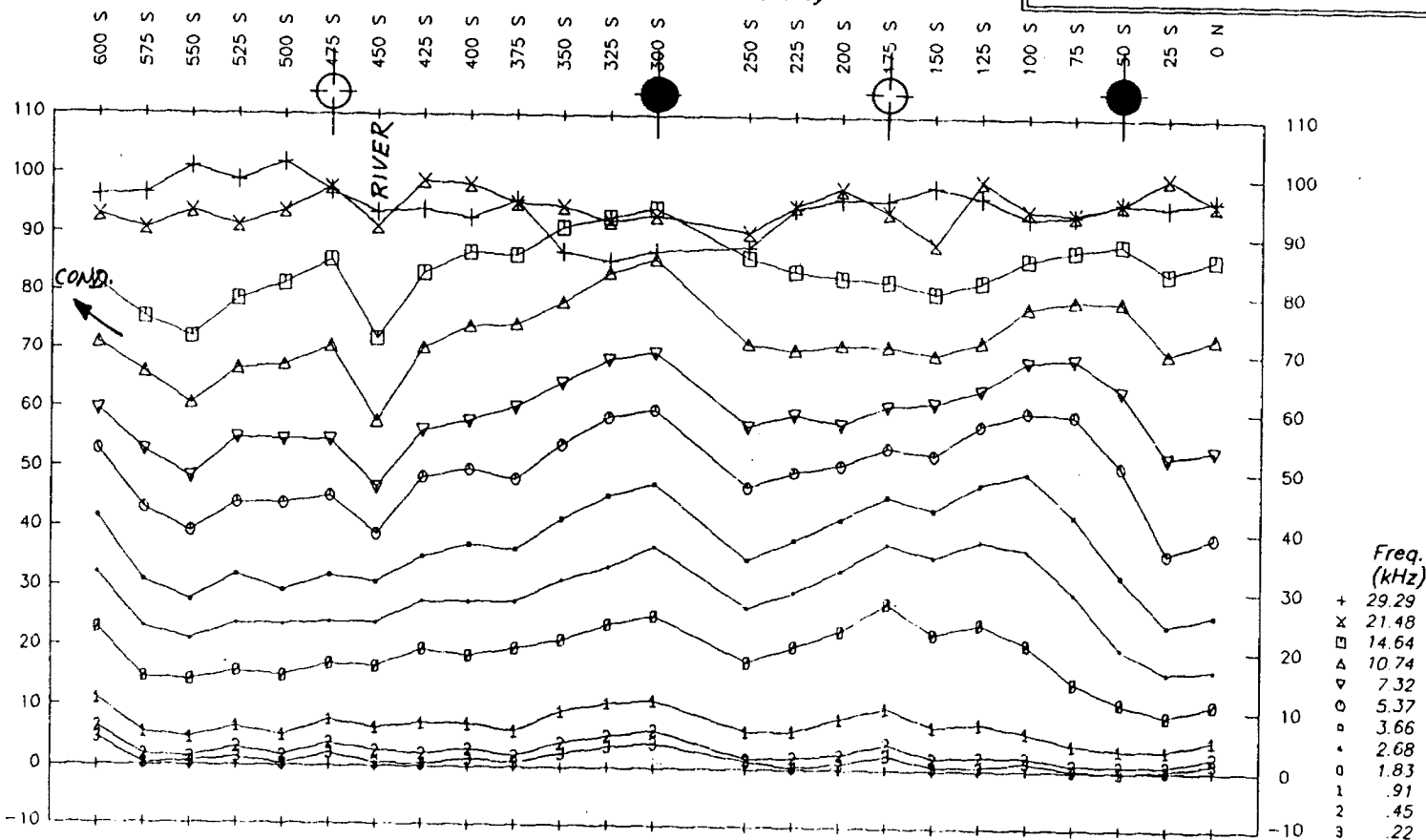
DATE: JAN./1994

OPERATOR: JIM WHELAN
TX--200M--RX

JOB No. 406

PROFILE OF TILT (degrees)
from MAXI-PROBE E.M. Survey

LINE 250+00E



JIM WHELAN
AREA: BENOIT TWP., ONT.

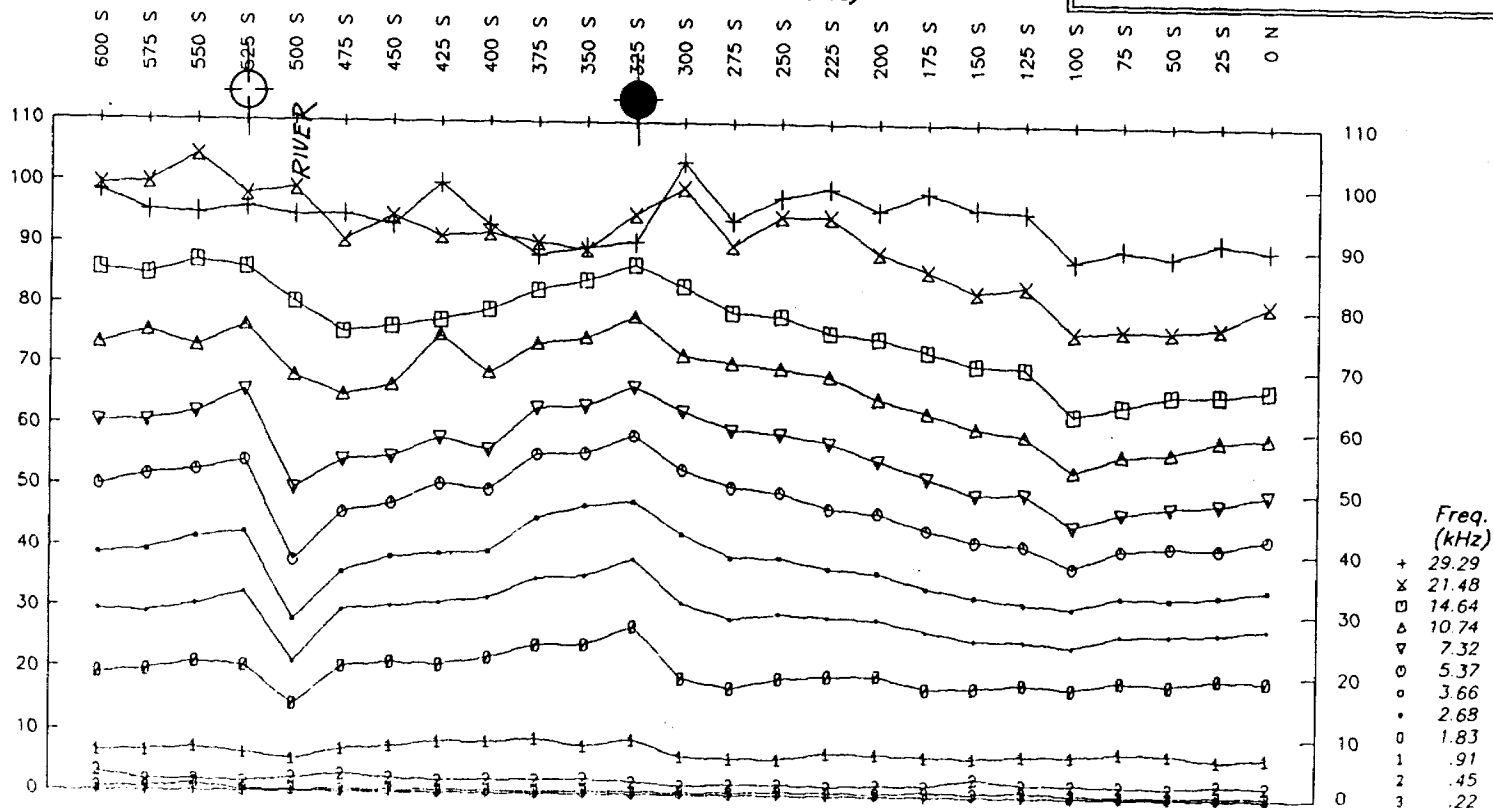
SURVEY BY GEOEM INC.
GRID: MAIN DATE: JAN./1994

OPERATOR: JIM WHELAN
TX--200M--RX

JOB No. 406

PROFILE OF TILT (degrees)
from MAXI-PROBE E.M. Survey

LINE 125+00E



JIM WHELAN
AREA: BENOIT TWP.

SURVEY BY GEOEM
GRID: MAIN

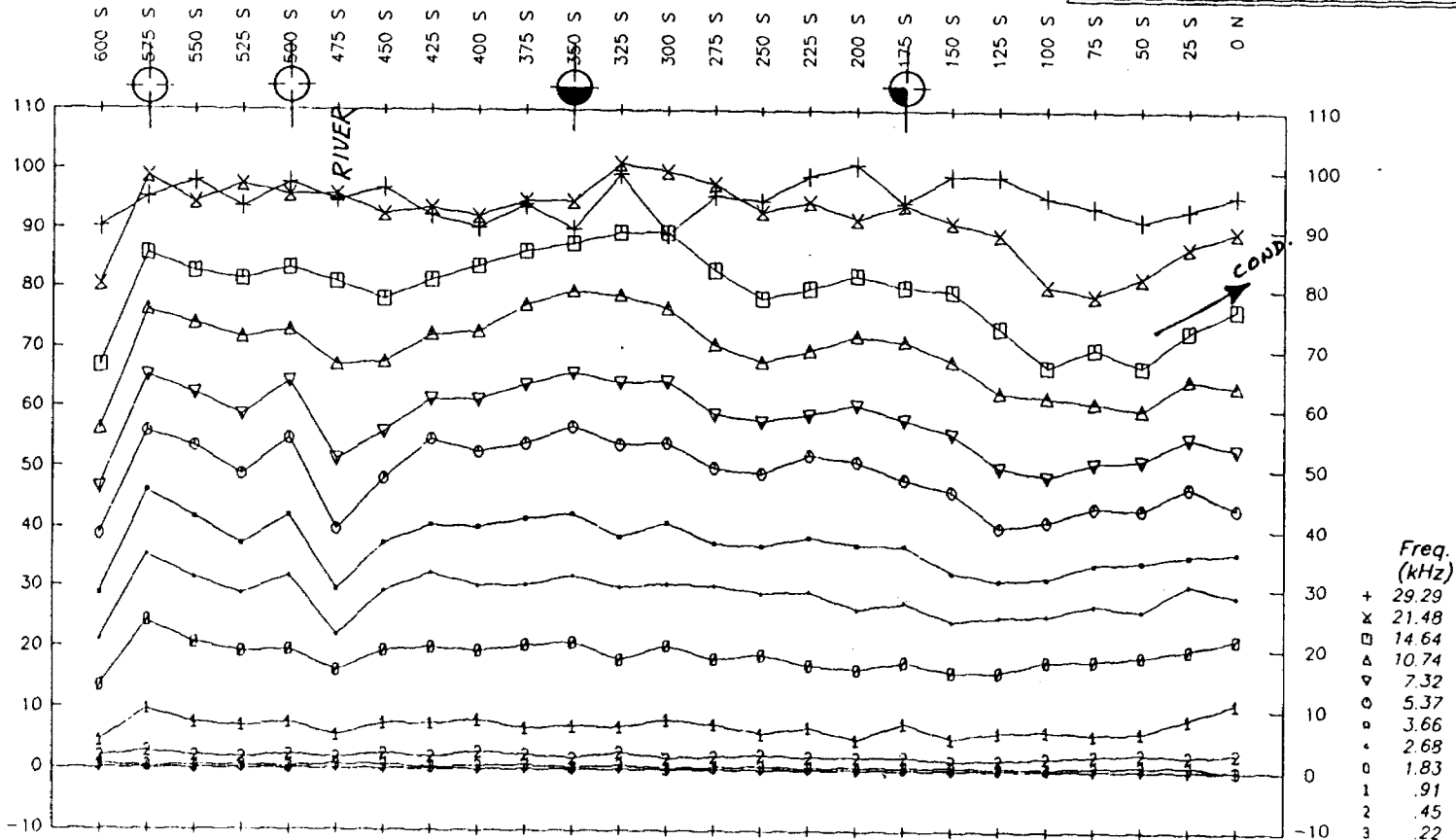
DATE: JAN. /1994 TX--200M--RX

OPERATOR: JIM WHELAN

JOB No. 406

PROFILE OF TILT (degrees)
from MAXI-PROBE E.M. Survey

LINE 35+00E



JIM WHELAN
AREA: BENOIT TWP.

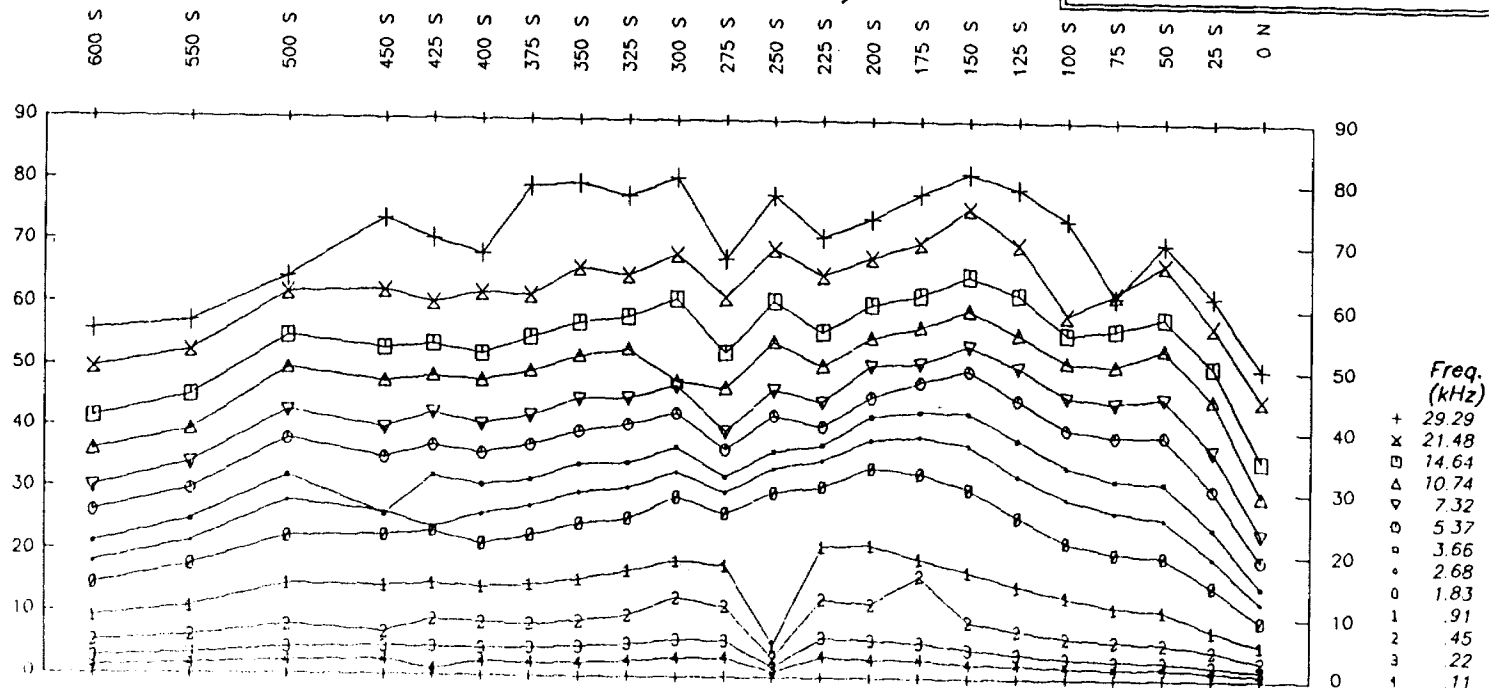
SURVEY BY GEOEM
GRID: MAIN

OPERATOR: JIM WHELAN
DATE: JAN. /1994 TX--200M--RX

JOB No. 406

PROFILE of QUAD (percent)
from MAXI-PROBE E.M. Survey

LINE 625+00E



JIM WHELAN

AREA: BENOIT TWP., ONT.

SURVEY BY GEOEM INC.

GRID: MAIN

OPERATOR: JIM WHELAN

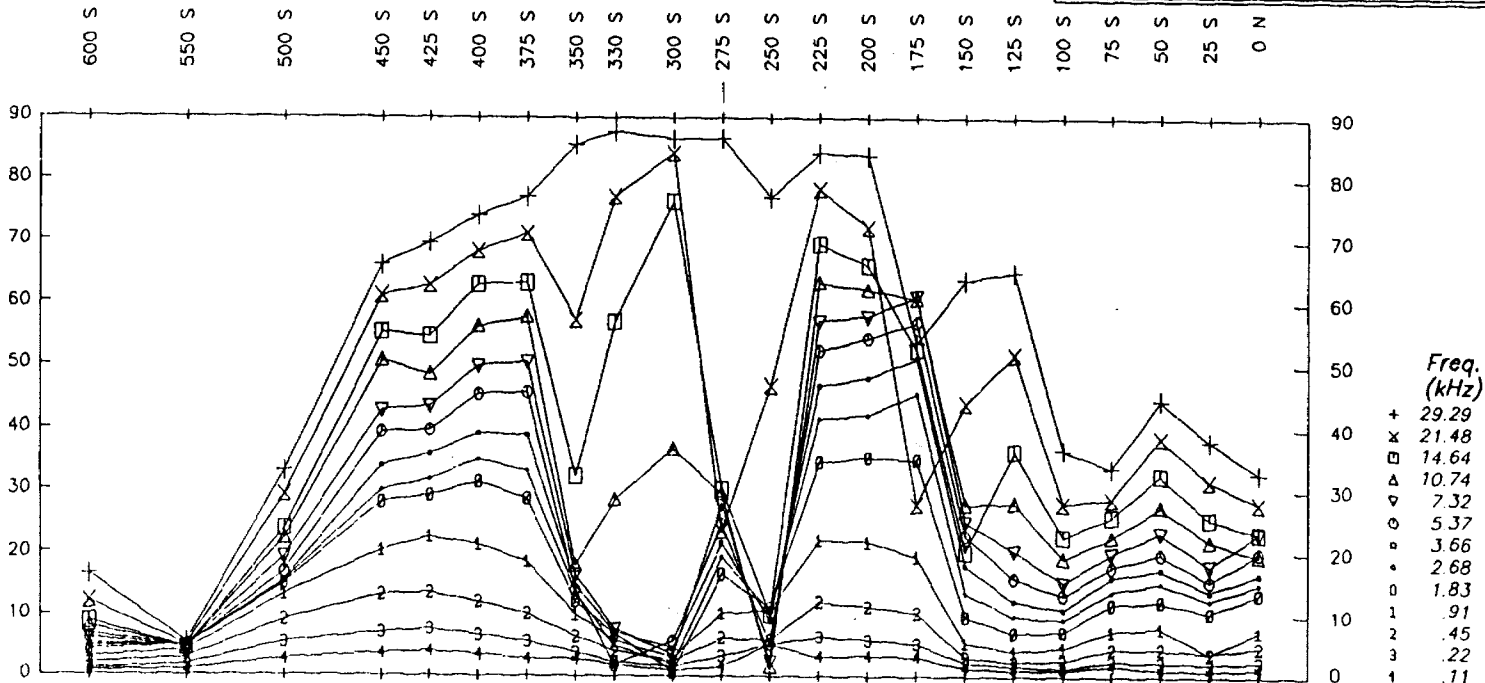
DATE: JAN./1994

TX--200M--RX

JOB No. 406

PROFILE of QUAD (percent)
from MAXI-PROBE E.M. Survey

LINE 500+00E



JIM WHELAN
AREA: BENOIT TWP.

SURVEY BY GEOEM LTD.
GRID: MAIN

OPERATOR: JIM WHELAN
DATE: JAN. 7/1994 TX--200M--RX

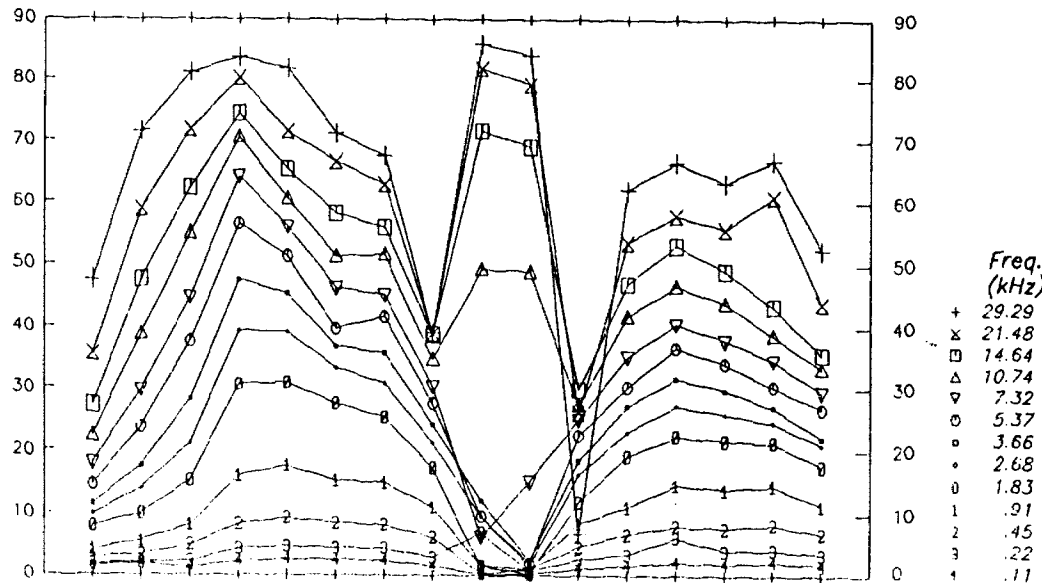
JOB No. 406

PROFILE of QUAD (percent)
from MAXI-PROBE E.M. Survey

LINE 500+00EN

Tx IN NORTH

575 S 550 S 525 S 500 S 475 S 450 S 425 S 400 S 375 S 350 S 325 S 300 S 275 S 250 S 225 S 200 S



JIM WHELAN

SURVEY BY GEOEM INC.

OPERATOR: JIM WHELAN

JOB No. 406

AREA: BENOIT TWP., ONT.

GRID: MAIN

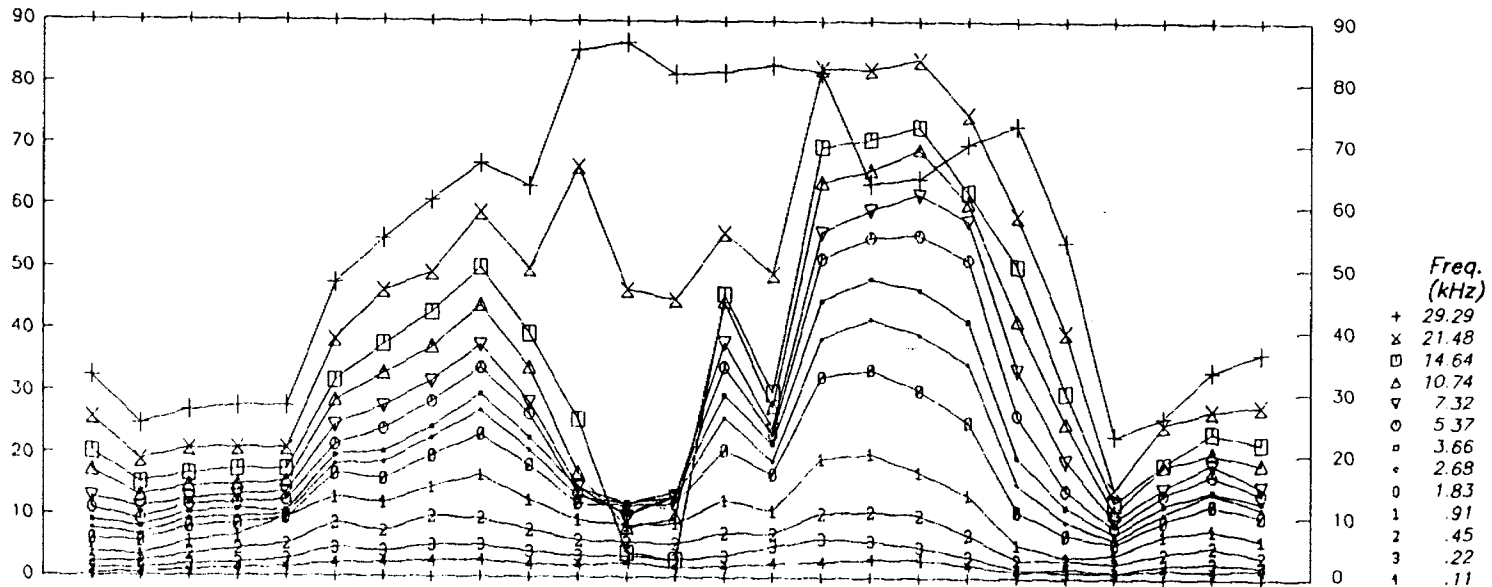
DATE: JAN./1994

RX--200M--TX

PROFILE of QUAD (percent)
from MAXI-PROBE E.M. Survey

LINE 375+00E

600 S 575 S 550 S 525 S 500 S 475 S 450 S 425 S 400 S 375 S 350 S 325 S 300 S 275 S 250 S 225 S 200 S 175 S 150 S 125 S 100 S 75 S 50 S 25 S 0 N



JIM WHELAN

AREA: BENOIT TWP., ONT.

SURVEY BY GEOEM INC.

GRID: MAIN

OPERATOR: JIM WHELAN

DATE: JAN./1994

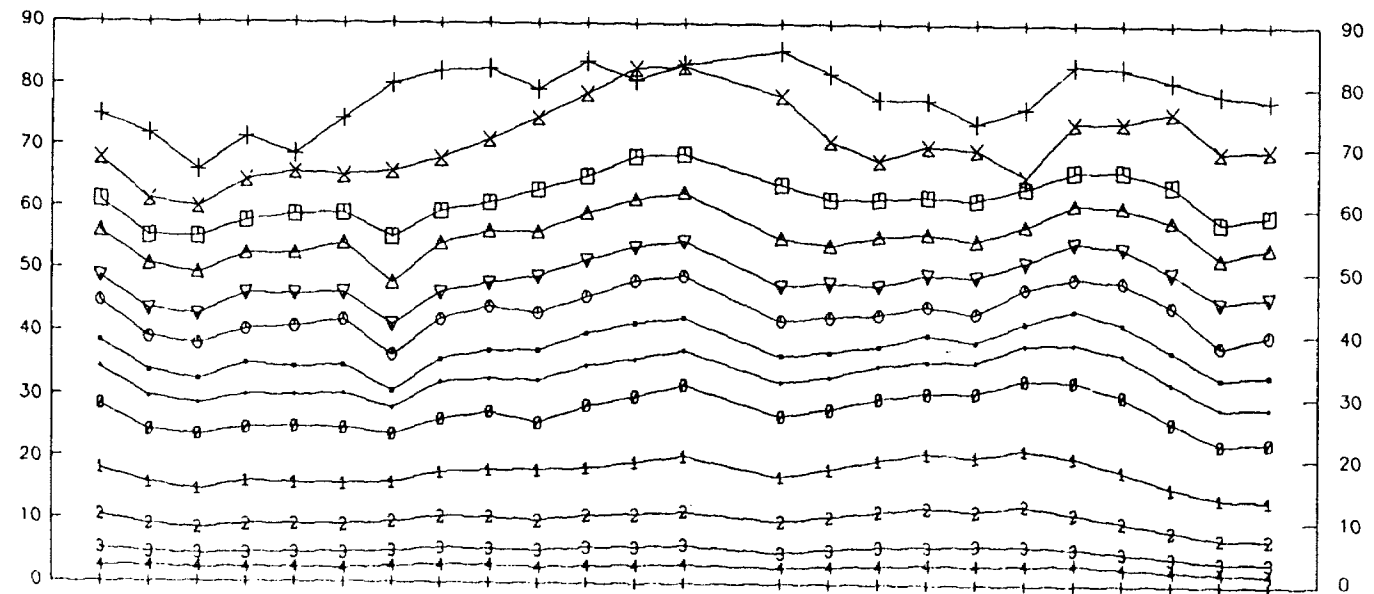
TX--200M--RX

JOB No. 406

PROFILE of QUAD (percent)
from MAXI-PROBE E.M. Survey

LINE 250+00E

600 S 575 S 550 S 525 S 500 S 475 S 450 S 425 S 400 S 375 S 350 S 325 S 300 S 250 S 225 S 200 S 175 S 150 S 125 S 100 S 75 S 50 S 25 S 0 N



JIM WHELAN
AREA: BENOIT TWP., ONT.

SURVEY BY GEOEM INC.
GRID: MAIN DATE: JAN./1994

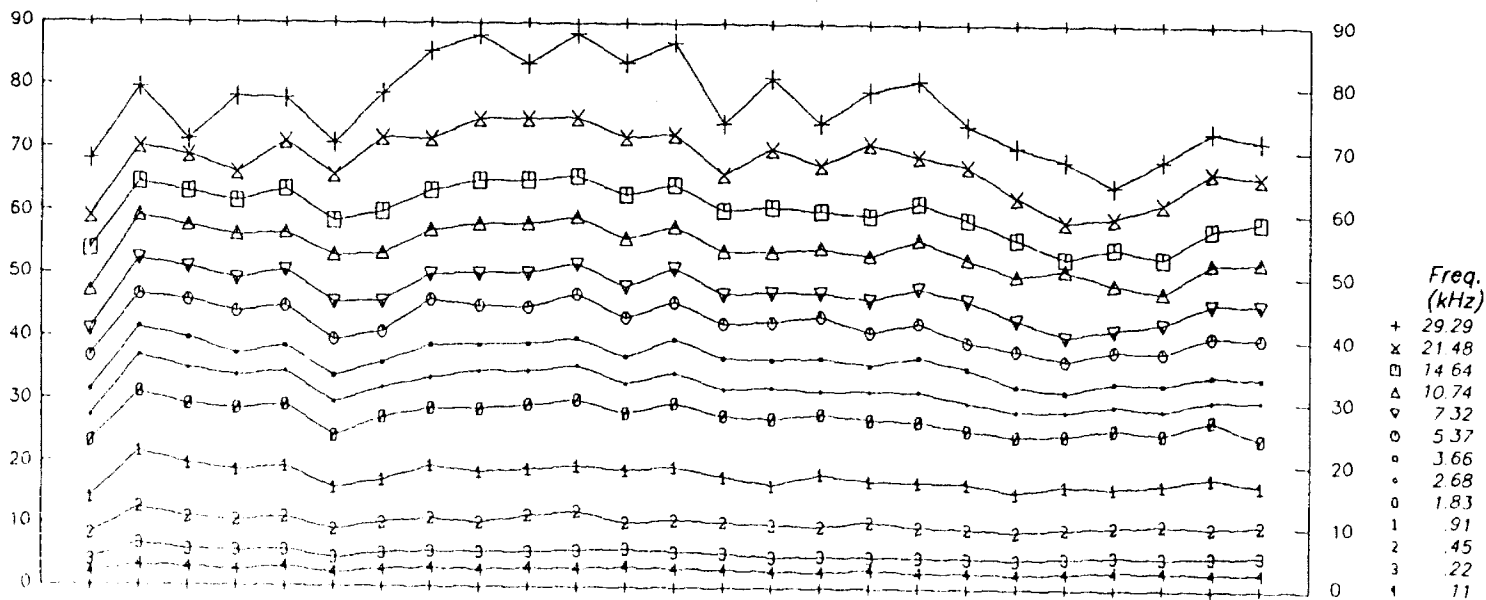
OPERATOR: JIM WHELAN
TX--200M--RX

JOB No. 406

PROFILE of QUAD (percent)
from MAXI-PROBE E.M. Survey

LINE 35+00E

600 S 575 S 550 S 525 S 500 S 475 S 450 S 425 S 400 S 375 S 350 S 325 S 300 S 275 S 250 S 225 S 200 S 175 S 150 S 125 S 100 S 75 S 50 S 25 S 0 N



JIM WHELAN

AREA: BENOIT TWP.

SURVEY BY GEOEM

GRID: MAIN

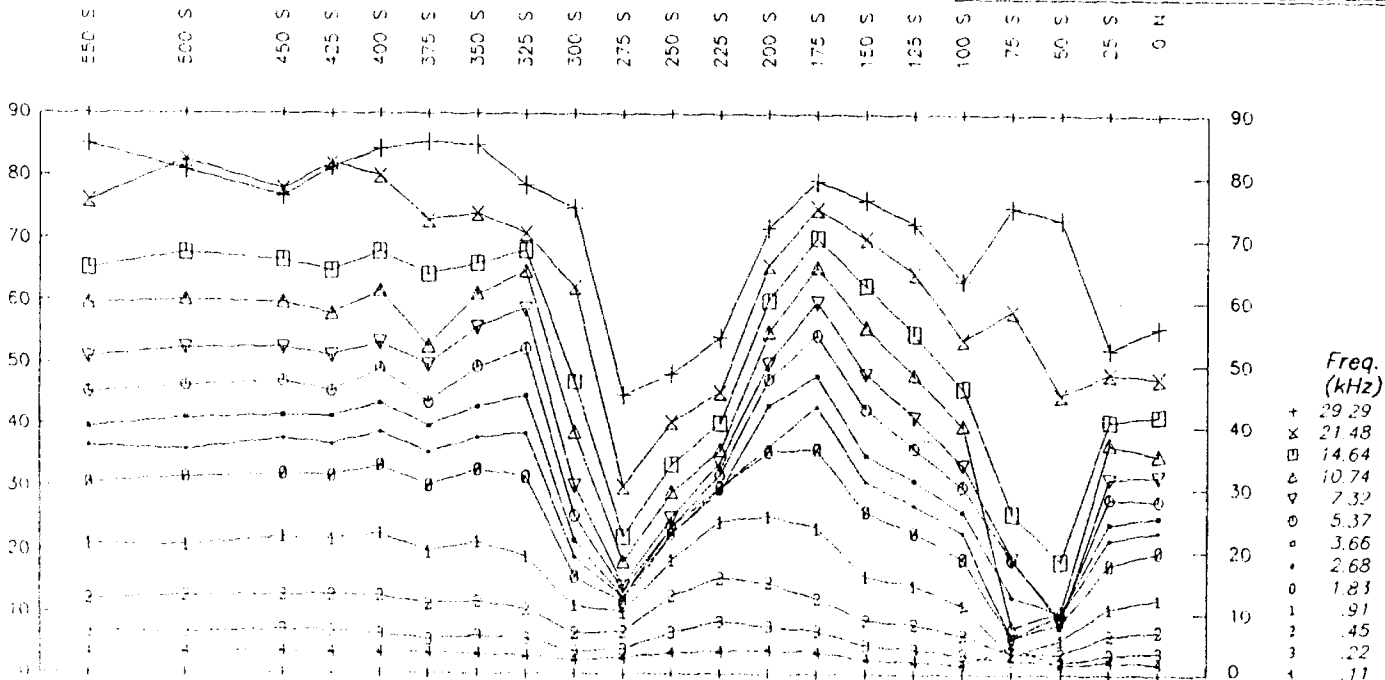
OPERATOR: JIM WHELAN

DATE: JAN. /1994 TX--200M--RX

JOB No. 406

PROFILE of QUAD (percent)
from MAXI-PROBE E.M. Survey

LINE 875+00E



JIM WHELAN

AREA: BLN08 IMP.ONT.

SURVEY BY GEOEM INC.

GRID: MAIN

OPERATOR: JIM WHELAN

DATE: JAN./1994

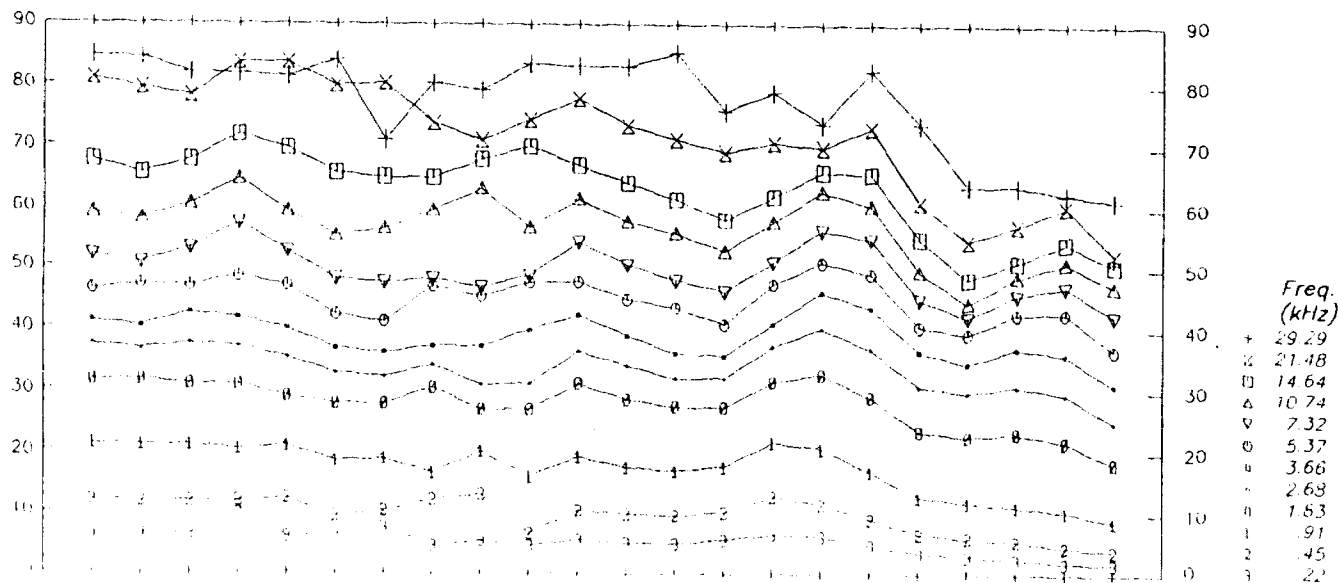
TX--200M--RX

JOB No. 406

PROFILE of QUAD (percent)
from MAXI-PROBE E.M. Survey

LINE 1125+00E

525 S 500 S 475 S 450 S 425 S 400 S 375 S 350 S 325 S 300 S 275 S 250 S 225 S 200 S 175 S 150 S 125 S 100 S 75 S 50 S 25 S 0 N



JIM WHELAN

SURVY BY GCEM INC.

OPERATOR: JIM WHELAN

JOB No. 406

AREA: BENTON WOODS

PROJ. NAME:

DATE: JAN / 1954

TX--200M--RX

Appendix II
Raw MAXI-PROBE E.M. Data
Description of System

FREQUENCY CODE

CODE	FREQUENCY kHz.
15-8	29.29
15-4	21.48
14-8	14.64
14-4	10.74
13-8	7.32
13-4	5.37
12-8	3.66
12-4	2.68
11-8	1.83
10-8	.91
9-8	.45
8-8	.22
7-8	.11

MAXI-PROBE

WIDE BAND E.M. SYSTEM
(NEW PORTABLE MODEL)

FEATURES :

- (1) FREQ. 1-60,000 c/s
- (2) MEASURES TOTAL FIELD
IN 2-COMPONENTS
- (3) CALCULATES APP. RESISTIVITY
& DEPTH FOR EACH FREQ.
- (4) PRODUCES A RESISTIVITY DEPTH-
SECTION along a SURVEY LINE
- (5) SHARP HORIZ. RESOLUTION
- (6) FOR PROFILING & DEPTH-SOUNDING

APPLICATIONS :

1. DEEP CONDUCTOR DETECTION
2. PENETRATION OF CLAY &
ESKER-SAND type OVERBURDEN
3. DETECT MINOR SULPHIDE ZONES
in BEDROCK for GOLD EXPLORATION
4. MAP FAULTS & SPLAYS
(CONDUCTIVE OR NON-CONDUCTIVE)
5. RESOLVE MULTIPLE CONDUCTORS
6. MAP BEDROCK TOPOGRAPHY
7. DETECT TILL IN OVERBURDEN
8. TRUE DEPTH-DETERMINATION

SURVEY PARAMETERS:

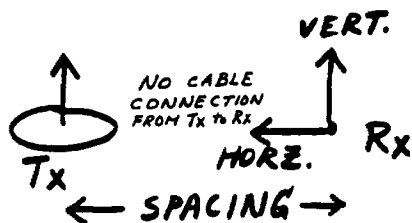
1. Tx-Rx ARRAY IS MOVED IN TANDEM along THE SURVEY LINE
2. MAX. DEPTH $\approx 1.25 \times (\text{Tx-Rx SPACING})$
3. Tx-Rx SPACING IS 150-200 METRES for RECONNAISSANCE SURVEY
4. STATION INTERVAL: 25 METRES OR 100 FT.
5. FREQ. RANGE IS SELECTED IN FIELD
Usually 60,000 - 20 c/s
6. NO. of FREQ.: 12-16 per Station
7. LINE SPACING: 100-200 METRES

RESULTS:

E.M. PROFILES of

1. TILT-ANGLE (degrees)
2. ELLIPTICITY (percentage)
- 2
3. PSEUDO-SECTION (App. RES. vs. FREQ)
4. DEPTH-SECTION (App. RES. vs. DEPTH)

GEOMETRY:



ORIENTATION:

Tx-LOOP CABLE CAN BE LAID OUT IN AN IRREGULAR SHAPE.

RECEIVER VERTICAL COIL ORIENTS BY MEANS OF A BUBBLE, HORZ. COIL IS ALONG THE SURVEY LINE

MISORIENTATION OF Tx-LOOP, RECEIVER AXES AND Tx-Rx ELEVATION DIFF. IS CORRECTED IN THE DATA USING LOWEST FREQ. MEASUREMENT.

Tx-LOOPS:

(ALL 8-TURN CABLE)

- (1) SMALL: 90 FT LONG (ONE LOOP)
- (2) MEDIUM: 120 FT LONG (2-LOOPS IN PARALLEL)
- (3) LARGE: 160 FT LONG (2-LOOPS IN PARALLEL)

SMALL LOOP → MAX. DEPTH 200 METRES
MEDIUM LOOP → " " 400 METRES
LARGE LOOP → " " 600 METRES

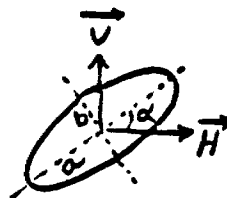
MEASURES:

$$\text{Amplitude RATIO} = \frac{|V|}{|H|}$$

$$\text{PHASE DIFF.} = \theta_V - \theta_H$$

CALCULATES:

ELLIPSE OF POLARIZATION



i.e. TILT-ANGLE (α) & ELLIPTICITY = $\frac{b}{a}$

↓
conductivity

↓
Alteration & Dissemination

Finally using f , spacing, TILT & ELLP. we calculate S_{ap} , D .

MAXI-PROBE
EMR-16 SURVEY

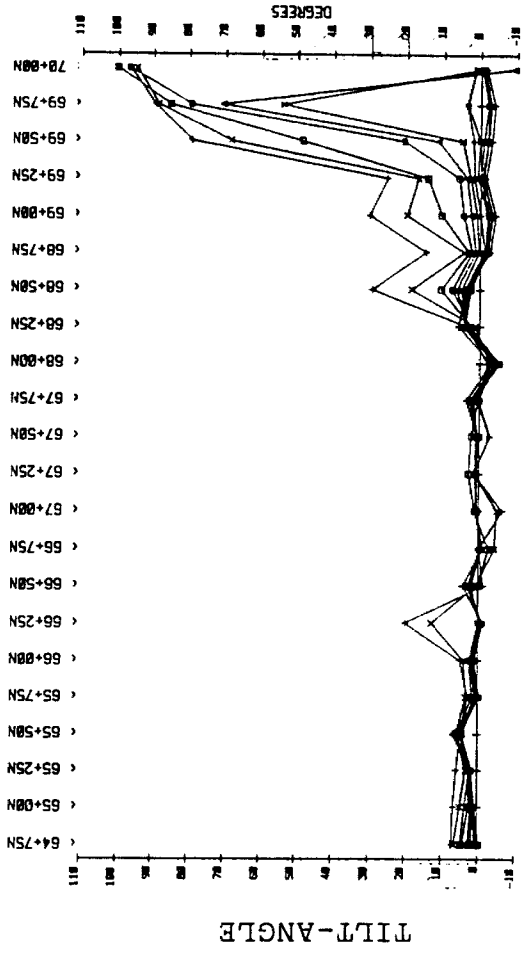
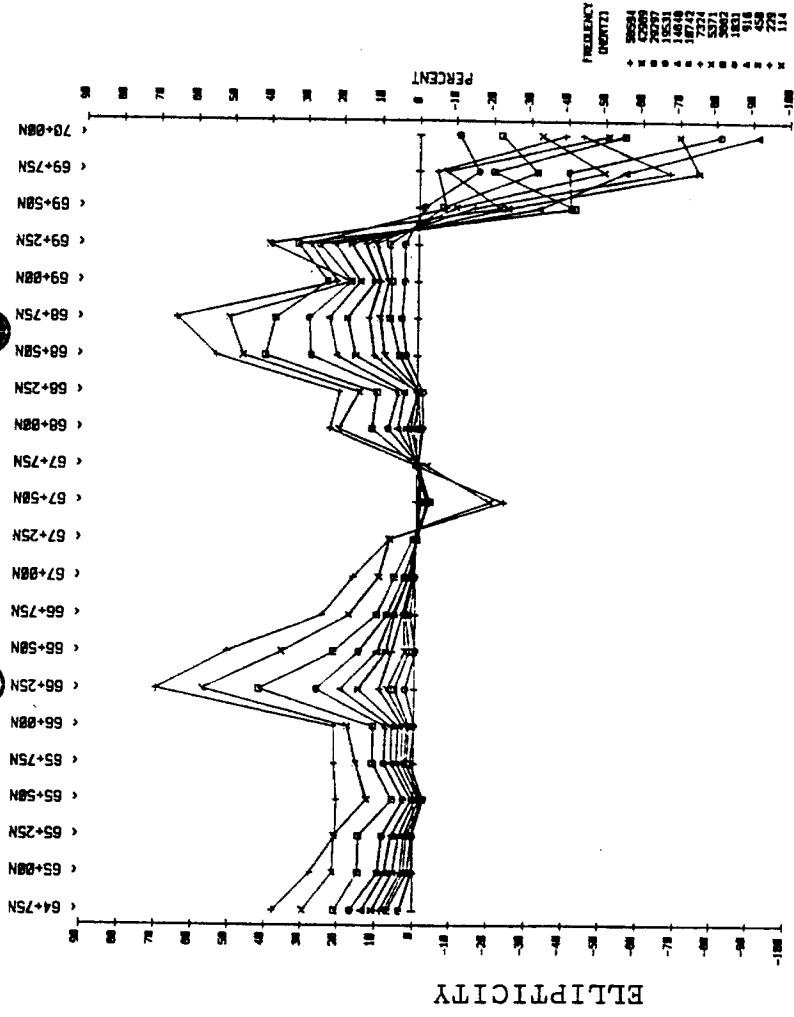
RX OPERATOR R. VILCOX
FILE BOU51.HRP

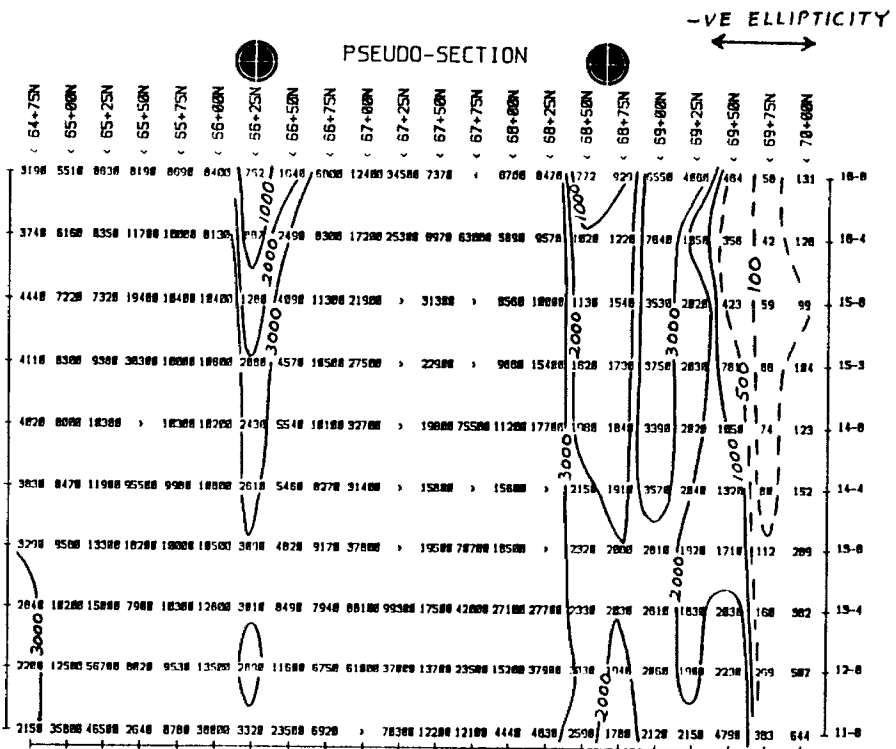
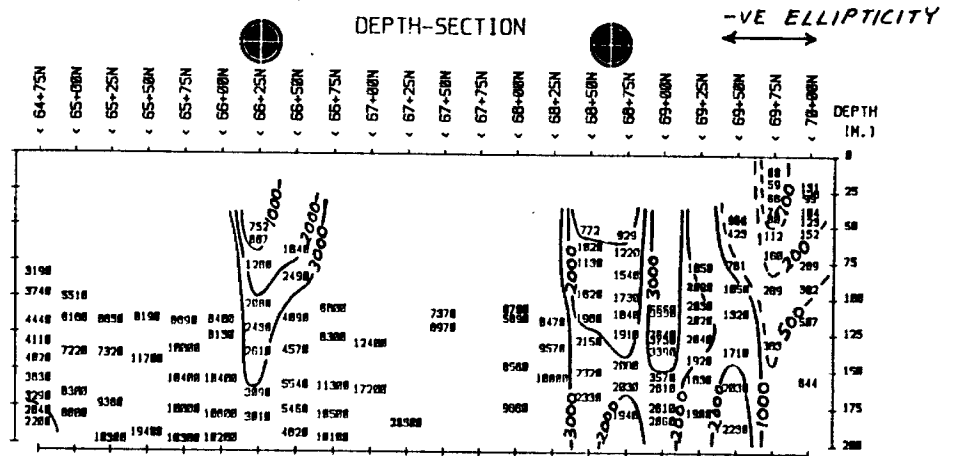
GEOPROBE LTD.
GEOPROBE LTD.
CS 344

BOUSQUET
86/78/89
SHALL LOOPS

RX LINE 79+80E
MOVING HEN
ELLIPTICITY

TX ← 150 M → RX





MAXI-PROBE
EMR-16 SURVEY

RX OPERATOR A. WILCOX
FILE BOUS1.HR00

GEOPROBE LTD.
GEOPROBE LTD.
CS 344

BOUSQUET
06/20/89
SMALL LOOPS

RX LINE 79+00E
MOVING HEM
APP. RES (OHM-M).OVRD

TX ← 150M → RX

LIN E
0+35E

| MEASURED | CALCULATED

LINE	STATION	F CODE	RATIO	PHASE	ELLIPT	QUAD	TILT
35	0 K42 29.29	15 8	0.31	-112.0	28.3	71.5	97.2
35	0	15 4	0.45	-92.0	45.0	65.7	91.1
35	0	14 8	0.59	-76.0	55.6	58.6	78.2
35	0	14 4	0.69	-64.0	54.7	52.2	65.2
35	0	13 8	0.83	-58.0	53.7	45.6	54.7
35	0	13 4	1.00	-58.0	55.4	40.2	45.0
35	0	12 8	1.18	-52.0	47.8	33.8	37.6
35	0	12 4	1.39	-54.0	46.7	30.2	30.2
35	0	11 8	1.75	-52.0	39.1	24.1	23.1
35	0	10 8	2.78	-56.0	28.6	16.6	12.4
35	0	9 8	5.20	-68.0	17.8	10.1	4.3
35	0	8 8	10.39	-75.0	9.3	5.3	1.4
35	0	7 8	19.05	-60.0	4.5	2.6	1.5
35	-025	15 8	0.30	-100.0	29.5	73.0	93.3
35	-025	15 4	0.43	-84.0	42.7	66.6	86.9
35	-025	14 8	0.59	-68.0	51.2	57.5	72.9
35	-025	14 4	0.69	-62.0	52.5	52.1	64.8
35	-025	13 8	0.82	-58.0	53.6	45.7	55.0
35	-025	13 4	0.96	-56.0	53.1	40.6	46.8
35	-025	12 8	1.21	-56.0	51.5	34.3	35.5
35	-025	12 4	1.38	-54.0	46.9	30.3	30.5
35	-025	11 8	1.72	-62.0	46.7	27.1	19.7
35	-025	10 8	2.86	-68.0	31.8	17.9	8.3
35	-025	9 8	5.56	-78.0	17.6	9.9	2.2
35	-025	8 8	10.81	-84.0	9.2	5.2	0.6
35	-025	7 8	21.62	-96.0	4.6	2.6	-0.3
35	-050	15 8	0.40	-90.0	39.5	68.4	90.0
35	-050	15 4	0.52	-76.0	49.9	61.5	80.3
35	-050	14 8	0.64	-58.0	47.0	52.9	65.5
35	-050	14 4	0.76	-56.0	49.9	47.4	58.2
35	-050	13 8	0.91	-57.0	53.9	42.6	49.9
35	-050	13 4	1.06	-56.0	53.0	37.9	41.8
35	-050	12 8	1.28	-56.0	50.4	32.8	32.9
35	-050	12 4	1.55	-58.0	47.3	28.6	24.8
35	-050	11 8	1.90	-62.0	43.1	24.8	17.1
35	-050	10 8	3.23	-76.0	29.9	16.7	4.7
35	-050	9 8	5.56	-90.0	18.0	10.2	0.0
35	-050	8 8	11.11	-100.0	8.9	5.0	-0.9
35	-050	7 8	18.18	-120.0	4.8	2.7	-1.6
35	-075	15 8	0.48	-94.0	47.8	64.3	92.5
35	-075	15 4	0.57	-74.0	53.0	59.3	77.5
35	-075	14 8	0.65	-66.0	53.8	54.5	68.8
35	-075	14 4	0.76	-60.0	53.8	48.7	59.5
35	-075	13 8	0.91	-54.0	50.6	41.6	49.6
35	-075	13 4	1.05	-56.0	53.0	38.2	42.4
35	-075	12 8	1.28	-57.0	51.4	33.1	32.6
35	-075	12 4	1.50	-58.0	48.2	29.4	25.8
35	-075	11 8	1.87	-64.0	44.9	25.6	16.7
35	-075	10 8	3.33	-76.0	28.9	16.2	4.5
35	-075	9 8	5.67	-84.0	17.5	9.9	1.1
35	-075	8 8	10.67	-100.0	9.2	5.2	-0.9
35	-075	7 8	17.78	-116.0	5.1	2.8	-1.4
35	-100	15 8	0.39	-100.0	38.2	68.3	94.5
35	-100	15 4	0.60	-78.0	56.9	58.6	79.5
35	-100	14 8	0.68	-64.0	54.0	52.8	66.0
35	-100	14 4	0.80	-100.0	75.2	50.9	108.8
35	-100	13 8	0.94	-54.0	50.8	40.5	47.8
35	-100	13 4	1.10	-55.0	51.7	36.6	40.3
35	-100	12 8	1.35	-56.0	49.3	31.5	30.7
35	-100	12 4	1.56	-58.0	47.0	28.4	24.5

35	-100	11	8	1.92	-62.0	42.7	24.6	16.9
35	-100	10	8	3.23	-73.6	29.5	16.5	5.5
35	-100	9	8	5.93	-84.0	16.8	9.5	1.0
35	-100	8	8	11.43	-98.0	8.7	4.9	-0.7
35	-100	7	8	20.51	-112.0	4.5	2.5	-1.0
35	-100	15	8	0.32	-114.0	29.1	70.4	98.2
35	-125	15	4	0.52	-88.0	51.9	62.5	88.6
35	-125	14	8	0.64	-72.0	57.8	55.8	72.8
35	-125	14	4	0.76	-66.0	59.9	50.0	61.8
35	-125	13	8	0.93	-60.0	57.4	43.1	49.4
35	-125	13	4	1.10	-60.0	57.2	38.2	39.6
35	-125	12	8	1.33	-58.0	51.5	32.4	30.6
35	-125	12	4	1.56	-58.0	47.0	28.4	24.5
35	-125	11	8	1.98	-64.0	42.8	24.4	15.4
35	-125	10	8	3.45	-72.0	27.3	15.4	5.5
35	-125	9	8	6.25	-84.0	15.9	9.0	1.0
35	-125	8	8	12.31	-96.0	8.1	4.6	-0.5
35	-125	7	8	22.86	-108.0	4.2	2.3	-0.8
35	-150	15	8	0.24	-124.0	19.5	73.8	97.9
35	-150	15	4	0.41	-90.0	41.5	67.4	90.0
35	-150	14	8	0.58	-76.0	55.2	58.9	78.4
35	-150	14	4	0.70	-68.0	58.7	52.7	66.8
35	-150	13	8	0.86	-64.0	60.9	46.2	54.5
35	-150	13	4	1.00	-56.0	53.2	39.6	45.0
35	-150	12	8	1.26	-63.0	58.0	35.3	31.5
35	-150	12	4	1.54	-62.0	50.7	29.8	23.3
35	-150	11	8	1.92	-66.4	45.2	25.4	14.9
35	-150	10	8	3.23	-78.0	30.2	16.8	4.1
35	-150	9	8	5.97	-88.0	16.7	9.5	0.3
35	-150	8	8	11.59	-100.0	8.5	4.8	-0.9
35	-150	7	8	20.00	-116.0	4.5	2.5	-1.3
35	-175	15	8	0.12	-132.0	8.9	80.8	94.6
35	-175	15	4	0.38	-100.0	37.2	68.9	94.4
35	-175	14	8	0.52	-76.0	49.9	61.5	80.3
35	-175	14	4	0.63	-69.0	55.1	55.7	71.3
35	-175	13	8	0.80	-62.0	57.0	48.0	58.1
35	-175	13	4	0.94	-60.0	57.6	42.5	48.2
35	-175	12	8	1.15	-60.0	56.7	37.0	37.2
35	-175	12	4	1.41	-60.0	51.9	31.5	27.5
35	-175	11	8	1.79	-64.0	46.7	26.7	17.8
35	-175	10	8	3.03	-68.0	30.1	17.0	7.8
35	-175	9	8	5.71	-78.0	17.1	9.7	2.1
35	-175	8	8	11.59	-84.0	8.6	4.9	0.5
35	-175	7	8	22.22	-86.0	4.5	2.5	0.2
35	-200	15	8	0.15	-128.0	11.7	79.2	95.3
35	-200	15	4	0.34	-80.0	33.4	70.9	86.2
35	-200	14	8	0.56	-72.0	51.2	59.5	76.6
35	-200	14	4	0.67	-64.0	53.4	53.2	66.6
35	-200	13	8	0.85	-62.0	58.3	46.2	54.9
35	-200	13	4	0.99	-60.0	57.7	41.1	45.6
35	-200	12	8	1.24	-64.0	59.4	35.8	31.8
35	-200	12	4	1.50	-68.0	56.3	31.6	20.9
35	-200	11	8	1.89	-74.4	49.7	27.0	10.8
35	-200	10	8	3.23	-92.0	31.0	17.2	-0.7
35	-200	9	8	5.06	-108.0	18.7	10.6	-3.6
35	-200	8	8	7.84	-136.0	8.8	5.0	-5.3
35	-200	7	8	8.99	-152.0	5.2	2.9	-5.6
35	-225	15	8	0.15	-148.0	7.8	74.1	97.3
35	-225	15	4	0.41	-96.0	40.7	67.5	92.9
35	-225	14	8	0.55	-74.0	51.3	60.2	78.3
35	-225	14	4	0.64	-64.0	52.0	54.3	68.0
35	-225	13	8	0.80	-60.0	55.0	47.2	57.1
35	-225	13	4	0.91	-60.0	57.2	43.5	50.3
35	-225	12	8	1.16	-60.0	56.6	36.8	36.9
35	-225	12	4	1.41	-60.0	51.9	31.5	27.5
35	-225	11	8	1.77	-69.0	50.0	27.8	15.4

35	-225	10	8	2.94	-76.0	32.7	18.2	5.3
35	-225	9	8	5.80	-88.0	17.2	9.7	0.4
35	-225	8	8	10.96	-106.0	8.8	5.0	-1.5
35	-225	7	8	18.60	-124.0	4.5	2.5	-1.7
35	-250	15	8	0.12	-128.0	9.4	81.3	94.3
35	-250	15	4	0.36	-96.0	35.7	70.1	92.5
35	-250	14	8	0.53	-72.0	48.7	60.8	77.8
35	-250	14	4	0.66	-64.0	52.9	53.7	67.1
35	-250	13	8	0.81	-61.0	56.2	47.3	57.1
35	-250	13	4	0.94	-60.0	57.5	42.6	48.5
35	-250	12	8	1.16	-60.0	56.5	36.6	36.6
35	-250	12	4	1.38	-60.0	52.5	32.1	28.4
35	-250	11	8	1.75	-64.0	47.3	27.1	18.3
35	-250	10	8	3.23	-74.0	29.6	16.5	5.4
35	-250	9	8	5.56	-80.0	17.7	10.0	1.8
35	-250	8	8	11.43	-92.0	8.7	4.9	-0.2
35	-250	7	8	21.05	-104.0	4.6	2.6	-0.7
35	-275	15	8	0.06	-168.0	1.2	73.9	93.4
35	-275	15	4	0.44	-100.0	43.0	65.9	95.4
35	-275	14	8	0.56	-78.0	53.7	60.2	80.6
35	-275	14	4	0.68	-68.0	57.2	53.7	68.3
35	-275	13	8	0.81	-60.0	55.3	46.9	56.5
35	-275	13	4	0.95	-60.0	57.6	42.2	47.6
35	-275	12	8	1.18	-62.0	58.4	36.7	35.1
35	-275	12	4	1.40	-60.0	52.1	31.7	27.8
35	-275	11	8	1.79	-68.0	49.0	27.4	15.7
35	-275	10	8	3.03	-76.0	31.8	17.7	5.1
35	-275	9	8	5.48	-92.0	18.2	10.3	-0.4
35	-275	8	8	9.88	-110.0	9.5	5.4	-2.0
35	-275	7	8	15.38	-130.0	5.0	2.8	-2.4
35	-300	15	8	0.04	-48.0	3.0	86.9	88.5
35	-300	15	4	0.25	-128.0	19.2	72.3	99.1
35	-300	14	8	0.48	-88.0	48.0	64.3	88.8
35	-300	14	4	0.61	-74.0	56.3	57.6	75.9
35	-300	13	8	0.74	-66.0	58.5	51.1	63.8
35	-300	13	4	0.88	-64.0	61.3	45.7	53.5
35	-300	12	8	1.08	-64.0	62.1	39.8	40.3
35	-300	12	4	1.30	-63.0	57.1	34.4	29.9
35	-300	11	8	1.61	-66.0	52.0	29.5	19.7
35	-300	10	8	2.70	-72.0	34.7	19.3	7.4
35	-300	9	8	5.26	-84.0	18.9	10.7	1.2
35	-300	8	8	10.00	-96.0	9.9	5.6	-0.6
35	-300	7	8	19.05	-104.0	5.1	2.9	-0.7
35	-325	15	8	0.09	-128.0	7.0	83.5	93.2
35	-325	15	4	0.32	-104.0	30.8	71.7	94.9
35	-325	14	8	0.51	-80.0	49.7	62.6	83.3
35	-325	14	4	0.65	-72.0	58.2	55.6	72.6
35	-325	13	8	0.82	-66.0	62.0	48.0	58.1
35	-325	13	4	0.96	-64.0	62.4	43.1	47.7
35	-325	12	8	1.21	-65.6	61.8	36.9	32.5
35	-325	12	4	1.43	-66.4	57.1	32.6	23.8
35	-325	11	8	1.82	-74.0	51.3	27.8	11.7
35	-325	10	8	2.94	-88.0	34.0	18.7	0.8
35	-325	9	8	5.26	-108.0	18.0	10.2	-3.5
35	-325	8	8	7.02	-132.0	10.5	6.0	-5.5
35	-325	7	8	8.16	-152.0	5.7	3.2	-6.2
35	-350	15	8	0.02	-44.0	1.4	88.3	89.2
35	-350	15	4	0.26	-104.0	25.1	74.9	93.8
35	-350	14	8	0.45	-84.0	44.6	65.6	86.6
35	-350	14	4	0.58	-76.0	54.7	59.1	78.5
35	-350	13	8	0.73	-67.0	58.9	51.7	65.0
35	-350	13	4	0.84	-64.0	60.4	46.9	55.9
35	-350	12	8	1.06	-62.4	60.4	39.9	41.5
35	-350	12	4	1.26	-64.0	59.0	35.5	31.1
35	-350	11	8	1.59	-66.4	52.9	30.0	20.0
35	-350	10	8	2.74	-75.0	34.9	19.4	6.1

35	-350	9	8	4.65	-86.0	21.4	12.1	0.6
35	-350	8	8	9.76	-96.0	10.2	5.8	-0.6
35	-350	7	8	17.78	-108.0	5.3	3.0	-1.0
35	-375	15	8	0.04	-160.0	1.4	83.3	92.2
35	-375	15	4	0.27	-100.0	26.5	74.6	92.9
35	-375	14	8	0.46	-80.0	44.9	64.9	84.3
35	-375	14	4	0.60	-72.0	54.0	57.9	75.2
35	-375	13	8	0.75	-64.0	57.3	50.1	61.8
35	-375	13	4	0.89	-62.0	59.2	44.7	52.0
35	-375	12	8	1.09	-62.0	59.6	38.9	39.6
35	-375	12	4	1.32	-65.0	58.7	34.5	28.3
35	-375	11	8	1.65	-67.0	51.6	29.1	18.4
35	-375	10	8	2.86	-78.0	34.0	18.8	4.7
35	-375	9	8	5.00	-88.0	20.0	11.3	0.4
35	-375	8	8	10.00	-104.0	9.7	5.5	-1.4
35	-375	7	8	16.00	-122.0	5.3	3.0	-1.9
35	-400	15	8	0.03	-120.0	2.6	88.0	90.9
35	-400	15	4	0.27	-100.0	26.5	74.6	92.9
35	-400	14	8	0.46	-80.0	44.9	64.9	84.3
35	-400	14	4	0.58	-68.0	50.5	57.9	73.4
35	-400	13	8	0.75	-64.0	57.3	50.1	61.8
35	-400	13	4	0.87	-60.0	56.6	45.0	53.1
35	-400	12	8	1.08	-60.0	57.4	38.8	40.9
35	-400	12	4	1.28	-62.4	56.9	34.6	30.8
35	-400	11	8	1.65	-64.0	49.6	28.5	20.0
35	-400	10	8	2.78	-68.0	32.7	18.4	8.6
35	-400	9	8	5.26	-72.0	18.0	10.2	3.5
35	-400	8	8	10.13	-78.0	9.7	5.5	1.2
35	-400	7	8	20.51	-76.0	4.7	2.7	0.7
35	-425	15	8	0.06	-132.0	4.5	85.3	92.3
35	-425	15	4	0.33	-100.0	32.4	71.4	93.7
35	-425	14	8	0.49	-76.0	46.7	63.2	81.3
35	-425	14	4	0.61	-68.0	52.3	56.8	72.2
35	-425	13	8	0.74	-61.6	54.6	49.9	61.4
35	-425	13	4	0.84	-60.0	56.1	45.8	54.7
35	-425	12	8	1.08	-60.0	57.4	38.6	40.6
35	-425	12	4	1.28	-58.0	52.4	33.4	32.3
35	-425	11	8	1.65	-64.0	49.6	28.5	20.0
35	-425	10	8	2.70	-72.0	34.7	19.3	7.4
35	-425	9	8	5.13	-80.0	19.2	10.8	2.0
35	-425	8	8	10.26	-86.0	9.7	5.5	0.4
35	-425	7	8	19.51	-88.0	5.1	2.9	0.1
35	-450	15	8	0.14	-136.0	9.6	78.6	95.8
35	-450	15	4	0.33	-94.0	32.9	71.6	91.5
35	-450	14	8	0.55	-72.0	50.3	59.9	77.0
35	-450	14	4	0.67	-64.0	53.4	53.2	66.6
35	-450	13	8	0.83	-58.0	53.7	45.6	54.7
35	-450	13	4	0.96	-56.0	53.1	40.8	47.1
35	-450	12	8	1.18	-58.4	54.5	35.9	36.4
35	-450	12	4	1.39	-60.0	52.3	31.9	28.1
35	-450	11	8	1.75	-64.0	47.3	27.1	18.3
35	-450	10	8	3.08	-72.0	30.6	17.1	6.3
35	-450	9	8	5.56	-82.0	17.8	10.1	1.5
35	-450	8	8	10.53	-96.0	9.4	5.3	-0.6
35	-450	7	8	19.05	-112.0	4.9	2.7	-1.1
35	-475	15	8	0.12	-160.0	4.1	70.6	96.4
35	-475	15	4	0.44	-104.0	42.1	65.6	97.4
35	-475	14	8	0.61	-82.0	59.7	58.3	82.4
35	-475	14	4	0.72	-72.0	63.0	52.8	68.6
35	-475	13	8	0.88	-64.0	61.5	45.4	52.8
35	-475	13	4	1.06	-61.0	58.7	39.4	41.4
35	-475	12	8	1.30	-60.0	54.1	33.6	31.1
35	-475	12	4	1.55	-61.0	49.7	29.4	23.5
35	-475	11	8	1.94	-60.0	41.2	24.0	17.5
35	-475	10	8	3.28	-68.0	27.9	15.7	7.1
35	-475	9	8	5.97	-70.0	15.7	8.9	3.4

35	-475	8	8	11.43	-64.4	7.9	4.4	2.2
35	-475	7	8	21.05	-52.8	3.8	2.1	1.6
35	-500	15	8	0.18	-124.0	14.8	77.7	95.9
35	-500	15	4	0.34	-100.0	33.4	70.9	93.8
35	-500	14	8	0.49	-76.0	46.2	63.4	81.5
35	-500	14	4	0.61	-66.0	51.0	56.4	71.1
35	-500	13	8	0.74	-64.0	56.9	50.5	62.4
35	-500	13	4	0.87	-60.0	56.6	44.8	52.8
35	-500	12	8	1.09	-60.0	57.3	38.5	40.3
35	-500	12	4	1.30	-63.0	57.1	34.4	29.9
35	-500	11	8	1.67	-68.0	51.9	29.0	17.5
35	-500	10	8	2.78	-76.0	34.6	19.2	5.7
35	-500	9	8	5.13	-88.0	19.5	11.0	0.4
35	-500	8	8	9.52	-106.0	10.1	5.7	-1.7
35	-500	7	8	15.38	-122.0	5.5	3.1	-2.0
35	-525	15	8	0.10	-152.0	4.7	77.9	95.1
35	-525	15	4	0.43	-108.0	39.6	65.9	98.9
35	-525	14	8	0.54	-80.0	52.1	61.4	82.7
35	-525	14	4	0.64	-72.0	57.4	56.0	73.1
35	-525	13	8	0.79	-64.8	59.5	49.0	59.9
35	-525	13	4	0.92	-62.0	59.6	43.8	50.0
35	-525	12	8	1.12	-58.4	55.2	37.1	38.7
35	-525	12	4	1.32	-61.0	54.8	33.6	30.1
35	-525	11	8	1.65	-63.0	48.9	28.3	20.5
35	-525	10	8	2.78	-68.8	32.9	18.5	8.3
35	-525	9	8	5.20	-74.0	18.4	10.4	3.1
35	-525	8	8	9.88	-72.0	9.6	5.5	1.8
35	-525	7	8	19.51	-60.8	4.5	2.5	1.4
35	-550	15	8	0.18	-148.0	9.3	71.2	98.8
35	-550	15	4	0.38	-102.0	36.9	68.7	95.2
35	-550	14	8	0.50	-80.0	48.8	63.0	83.5
35	-550	14	4	0.61	-72.0	54.7	57.5	74.7
35	-550	13	8	0.73	-64.0	56.4	50.9	63.1
35	-550	13	4	0.85	-60.8	57.1	45.7	54.2
35	-550	12	8	1.04	-60.0	57.6	39.7	42.6
35	-550	12	4	1.26	-61.0	55.9	34.8	32.2
35	-550	11	8	1.60	-63.0	50.1	29.1	21.5
35	-550	10	8	2.63	-70.4	35.1	19.6	8.3
35	-550	9	8	5.00	-76.0	19.4	10.9	2.9
35	-550	8	8	9.64	-78.0	10.1	5.7	1.2
35	-550	7	8	18.60	-74.0	5.2	2.9	0.9
35	-575	15	8	0.13	-136.0	9.0	79.4	95.4
35	-575	15	4	0.32	-116.0	28.6	70.1	98.8
35	-575	14	8	0.47	-83.0	46.9	64.4	85.7
35	-575	14	4	0.57	-72.0	52.0	59.0	76.2
35	-575	13	8	0.70	-64.8	55.7	52.2	65.3
35	-575	13	4	0.82	-60.0	55.6	46.5	55.9
35	-575	12	8	0.98	-59.6	57.2	41.3	46.1
35	-575	12	4	1.18	-62.0	58.5	36.8	35.4
35	-575	11	8	1.48	-63.0	52.9	31.0	24.2
35	-575	10	8	2.38	-70.0	38.5	21.5	9.6
35	-575	9	8	4.44	-78.0	22.0	12.4	2.8
35	-575	8	8	8.51	-86.0	11.7	6.6	0.5
35	-575	7	8	17.39	-88.0	5.7	3.2	0.1
35	-600	15	8	0.40	-92.0	40.0	68.1	91.0
35	-600	15	4	0.59	-80.0	57.2	59.0	81.3
35	-600	14	8	0.67	-66.0	55.0	53.7	67.7
35	-600	14	4	0.81	-60.0	55.2	47.0	56.8
35	-600	13	8	0.95	-56.0	53.1	40.9	47.4
35	-600	13	4	1.11	-56.0	52.7	36.7	39.7
35	-600	12	8	1.38	-57.0	49.7	31.3	29.5
35	-600	12	4	1.67	-59.0	45.7	27.2	22.0
35	-600	11	8	2.11	-64.0	40.6	23.1	14.1
35	-600	10	8	3.77	-71.0	24.9	14.0	5.3
35	-600	9	8	6.67	-72.0	14.2	8.1	2.7
35	-600	8	8	13.33	-72.0	7.1	4.0	1.3

LINE	STATION	FCODE	RATIO	PHASE	ELLIPT	QUAD	TILT
125	000	15 8	0.37	-96.0	36.7	69.5	92.6
125	000	15 4	0.50	-80.0	49.2	62.8	83.4
125	000	14 8	0.63	-65.6	52.6	55.1	69.3
125	000	14 4	0.73	-60.0	52.5	50.0	61.6
125	000	13 8	0.86	-54.0	49.9	43.4	52.5
125	000	13 4	1.00	-52.0	48.8	38.2	45.0
125	000	12 8	1.20	-52.8	48.3	33.6	36.6
125	000	12 4	1.39	-54.0	46.7	30.1	30.1
125	000	11 8	1.72	-57.0	43.2	25.9	21.8
125	000	10 8	2.90	-64.0	30.2	17.2	9.5
125	000	9 8	5.20	-66.0	17.5	9.9	4.6
125	000	8 8	9.64	-60.0	9.0	5.1	3.0
125	000	7 8	16.33	-44.0	4.2	2.4	2.5
125	-025	15 8	0.45	-96.0	44.6	65.6	93.4
125	-025	15 4	0.56	-76.0	53.0	60.0	79.2
125	-025	14 8	0.65	-65.6	53.8	54.2	68.3
125	-025	14 4	0.75	-60.8	54.0	49.5	60.7
125	-025	13 8	0.89	-54.4	50.9	42.2	50.4
125	-025	13 4	1.04	-53.6	50.4	37.6	43.0
125	-025	12 8	1.24	-52.0	47.0	32.3	35.2
125	-025	12 4	1.46	-52.0	43.8	28.3	28.9
125	-025	11 8	1.75	-56.0	41.9	25.2	21.7
125	-025	10 8	3.03	-65.6	29.5	16.7	8.5
125	-025	9 8	5.33	-66.4	17.1	9.7	4.4
125	-025	8 8	10.26	-62.4	8.6	4.9	2.6
125	-025	7 8	16.67	-50.0	4.6	2.6	2.2
125	-050	15 8	0.44	-92.0	44.0	66.2	91.1
125	-050	15 4	0.57	-76.0	54.3	59.3	78.7
125	-050	14 8	0.65	-64.8	52.9	54.3	68.1
125	-050	14 4	0.76	-58.0	51.8	48.1	58.8
125	-050	13 8	0.90	-53.6	50.0	41.8	50.0
125	-050	13 4	1.03	-55.0	52.0	38.4	43.5
125	-050	12 8	1.24	-54.0	49.0	33.0	34.8
125	-050	12 4	1.45	-53.0	44.8	28.8	28.9
125	-050	11 8	1.79	-57.0	42.1	25.1	20.8
125	-050	10 8	2.86	-64.0	30.7	17.4	9.6
125	-050	9 8	5.41	-68.0	17.1	9.7	4.1
125	-050	8 8	10.13	-62.4	8.7	4.9	2.6
125	-050	7 8	17.02	-46.4	4.2	2.4	2.3
125	-075	15 8	0.45	-94.4	44.8	65.7	92.5
125	-075	15 4	0.56	-76.0	53.4	59.7	79.1
125	-075	14 8	0.68	-65.0	54.8	53.1	66.5
125	-075	14 4	0.76	-58.0	52.0	47.9	58.5
125	-075	13 8	0.92	-52.0	48.5	40.7	49.1
125	-075	13 4	1.04	-52.0	48.7	37.0	43.1
125	-075	12 8	1.24	-52.0	47.0	32.3	35.2
125	-075	12 4	1.44	-54.0	45.9	29.3	28.8
125	-075	11 8	1.77	-56.0	41.7	25.0	21.4
125	-075	10 8	2.90	-62.4	29.7	16.9	10.0
125	-075	9 8	5.26	-66.4	17.3	9.8	4.5
125	-075	8 8	9.52	-62.0	9.2	5.2	2.8
125	-075	7 8	16.00	-44.0	4.3	2.4	2.6
125	-100	15 8	0.49	-88.0	48.5	64.1	88.7
125	-100	15 4	0.63	-76.0	58.6	57.2	76.8
125	-100	14 8	0.73	-64.0	56.2	51.1	63.4
125	-100	14 4	0.84	-58.0	53.9	45.2	54.1
125	-100	13 8	1.00	-56.0	53.2	39.8	45.3
125	-100	13 4	1.15	-53.0	49.1	34.8	38.5
125	-100	12 8	1.35	-52.8	46.2	30.5	31.6
125	-100	12 4	1.59	-54.4	43.7	27.1	25.3
125	-100	11 8	1.92	-58.0	40.4	23.7	18.5
125	-100	10 8	2.12	-67.0	30.0	16.4	7.0

125	-100	9	8	5.76	-74.0	16.7	9.4	2.8
125	-100	8	8	11.59	-76.0	8.4	4.7	1.2
125	-100	7	8	22.22	-70.0	4.2	2.4	0.9
125	-125	15	8	0.45	-100.0	44.0	65.4	95.5
125	-125	15	4	0.57	-82.0	55.9	60.0	83.4
125	-125	14	8	0.68	-70.4	59.1	54.1	69.8
125	-125	14	4	0.79	-63.0	57.8	48.4	58.8
125	-125	13	8	0.92	-57.6	54.6	42.5	49.4
125	-125	13	4	1.09	-55.0	51.7	37.0	40.9
125	-125	12	8	1.33	-56.0	49.6	31.8	31.2
125	-125	12	4	1.54	-58.0	47.5	28.8	25.0
125	-125	11	8	1.89	-60.0	42.2	24.6	18.2
125	-125	10	8	3.08	-71.0	30.4	17.0	6.7
125	-125	9	8	5.76	-80.0	17.1	9.7	1.8
125	-125	8	8	11.59	-90.0	8.6	4.9	0.0
125	-125	7	8	22.22	-98.0	4.5	2.5	-0.4
125	-150	15	8	0.40	-100.0	38.7	68.1	94.6
125	-150	15	4	0.55	-78.0	52.8	60.6	80.9
125	-150	14	8	0.67	-68.0	56.6	54.1	68.8
125	-150	14	4	0.79	-62.4	57.2	48.2	58.6
125	-150	13	8	0.94	-54.0	50.8	40.5	47.8
125	-150	13	4	1.10	-57.0	53.9	37.3	40.1
125	-150	12	8	1.33	-58.0	51.7	32.6	30.9
125	-150	12	4	1.56	-60.0	48.6	28.9	23.6
125	-150	11	8	1.92	-64.0	43.9	25.0	16.0
125	-150	10	8	3.23	-76.0	29.9	16.7	4.7
125	-150	9	8	5.84	-90.0	17.1	9.7	0.0
125	-150	8	8	10.81	-104.0	9.0	5.1	-1.3
125	-150	7	8	18.18	-124.0	4.6	2.6	-1.8
125	-175	15	8	0.36	-112.0	32.7	68.7	98.6
125	-175	15	4	0.51	-84.0	50.5	62.8	85.9
125	-175	14	8	0.63	-70.0	55.0	56.3	72.5
125	-175	14	4	0.74	-64.0	56.9	50.5	62.4
125	-175	13	8	0.88	-58.4	55.0	44.0	51.9
125	-175	13	4	1.03	-58.0	55.4	39.4	43.4
125	-175	12	8	1.25	-57.0	52.0	33.8	33.8
125	-175	12	4	1.46	-59.0	49.9	30.4	26.5
125	-175	11	8	1.82	-64.0	46.0	26.3	17.3
125	-175	10	8	3.08	-72.0	30.6	17.1	6.3
125	-175	9	8	5.71	-82.0	17.3	9.8	1.4
125	-175	8	8	11.59	-89.6	8.6	4.9	0.0
125	-175	7	8	22.22	-98.0	4.5	2.5	-0.4
125	-200	15	8	0.25	-112.0	23.0	74.9	95.6
125	-200	15	4	0.45	-88.0	45.0	65.7	88.9
125	-200	14	8	0.58	-70.0	51.7	58.3	74.6
125	-200	14	4	0.70	-64.0	55.2	51.8	64.6
125	-200	13	8	0.84	-59.6	55.6	45.7	54.6
125	-200	13	4	0.98	-56.0	53.2	40.2	46.0
125	-200	12	8	1.19	-56.8	52.6	35.1	36.1
125	-200	12	4	1.41	-58.0	50.1	31.0	28.3
125	-200	11	8	1.75	-62.0	46.0	26.7	19.2
125	-200	10	8	2.94	-72.0	31.9	17.9	6.7
125	-200	9	8	5.41	-82.4	18.3	10.3	1.5
125	-200	8	8	10.81	-88.0	9.2	5.2	0.2
125	-200	7	8	21.62	-98.0	4.6	2.6	-0.4
125	-225	15	8	0.18	-144.0	10.4	72.9	98.4
125	-225	15	4	0.48	-96.0	47.6	64.2	93.7
125	-225	14	8	0.61	-72.0	55.1	57.3	74.5
125	-225	14	4	0.69	-68.0	58.1	53.1	67.4
125	-225	13	8	0.82	-62.0	57.7	47.1	56.5
125	-225	13	4	0.99	-60.0	57.7	41.3	45.9
125	-225	12	8	1.18	-60.0	56.3	36.3	36.0
125	-225	12	4	1.40	-60.0	52.1	31.7	27.8
125	-225	11	8	1.77	-63.6	46.7	26.8	18.2
125	-225	10	8	2.94	-74.0	32.4	18.0	6.0
125	-225	9	8	5.41	-88.0	18.5	10.4	1.4

125	-225	8	8	10.81	-98.0	9.2	5.2	-0.7
125	-225	7	8	18.60	-114.0	4.9	2.8	-1.3
125	-250	15	8	0.16	-128.0	12.5	78.5	95.7
125	-250	15	4	0.38	-96.0	37.7	69.0	92.7
125	-250	14	8	0.57	-72.0	52.0	59.0	76.2
125	-250	14	4	0.66	-64.8	53.5	53.8	67.6
125	-250	13	8	0.81	-61.0	56.4	47.1	56.8
125	-250	13	4	0.96	-60.0	57.6	42.0	47.3
125	-250	12	8	1.16	-60.0	56.5	36.6	36.6
125	-250	12	4	1.39	-62.0	54.1	32.4	27.3
125	-250	11	8	1.79	-66.0	47.9	27.0	16.8
125	-250	10	8	3.08	-79.6	31.8	17.7	3.7
125	-250	9	8	5.41	-93.0	18.5	10.4	-0.6
125	-250	8	8	10.26	-108.0	9.3	5.2	-1.7
125	-250	7	8	15.44	-128.0	5.1	2.9	-2.3
125	-275	15	8	0.12	-96.0	11.9	83.1	90.7
125	-275	15	4	0.36	-82.0	35.5	70.0	86.7
125	-275	14	8	0.53	-68.0	46.7	60.2	75.5
125	-275	14	4	0.64	-62.4	50.8	53.9	67.2
125	-275	13	8	0.80	-56.0	50.8	46.2	56.2
125	-275	13	4	0.96	-58.0	55.4	41.3	46.9
125	-275	12	8	1.18	-61.0	57.3	36.4	35.4
125	-275	12	4	1.40	-65.6	57.2	33.0	25.2
125	-275	11	8	1.79	-71.0	50.6	27.8	14.0
125	-275	10	8	3.13	-82.4	31.7	17.5	2.7
125	-275	9	8	5.56	-100.0	17.7	10.0	-1.8
125	-275	8	8	9.19	-120.0	9.4	5.3	-3.1
125	-275	7	8	12.31	-140.0	5.2	2.9	-3.6
125	-300	15	8	0.19	-168.0	3.8	47.5	100.5
125	-300	15	4	0.40	-104.0	38.4	67.5	96.5
125	-300	14	8	0.52	-76.0	49.9	61.5	80.3
125	-300	14	4	0.65	-66.0	53.8	54.5	68.8
125	-300	13	8	0.77	-62.0	56.1	48.9	59.7
125	-300	13	4	0.92	-60.0	57.3	43.4	50.0
125	-300	12	8	1.10	-60.8	58.1	38.4	39.5
125	-300	12	4	1.33	-64.0	57.3	33.9	28.2
125	-300	11	8	1.70	-70.0	52.4	29.0	15.9
125	-300	10	8	2.82	-82.0	35.1	19.3	3.2
125	-300	9	8	5.13	-98.0	19.3	10.9	-1.6
125	-300	8	8	9.09	-116.0	9.9	5.6	-2.8
125	-300	7	8	13.11	-134.0	5.5	3.1	-3.0
125	-325	15	8	0.05	-100.0	4.9	87.0	90.5
125	-325	15	4	0.22	-112.0	20.3	76.6	94.9
125	-325	14	8	0.45	-84.0	44.6	65.6	86.6
125	-325	14	4	0.56	-74.0	51.7	59.9	78.1
125	-325	13	8	0.68	-64.8	54.6	53.0	66.4
125	-325	13	4	0.79	-62.0	56.8	48.1	58.4
125	-325	12	8	0.95	-61.0	58.8	42.4	47.7
125	-325	12	4	1.12	-61.0	58.1	37.8	38.2
125	-325	11	8	1.39	-62.4	54.5	32.5	27.1
125	-325	10	8	2.35	-72.0	39.6	22.0	8.9
125	-325	9	8	4.44	-82.0	22.3	12.5	1.9
125	-325	8	8	8.89	-88.0	11.2	6.4	0.2
125	-325	7	8	17.78	-94.0	5.6	3.2	-0.2
125	-350	15	8	0.07	-88.0	7.0	85.9	89.9
125	-350	15	4	0.21	-88.0	21.0	78.1	89.6
125	-350	14	8	0.45	-80.0	44.0	65.4	84.5
125	-350	14	4	0.55	-68.0	48.3	59.3	74.7
125	-350	13	8	0.71	-62.4	54.1	51.2	63.5
125	-350	13	4	0.82	-60.0	55.6	46.5	55.9
125	-350	12	8	0.96	-59.6	57.2	41.9	47.3
125	-350	12	4	1.18	-61.0	57.4	36.6	35.7
125	-350	11	8	1.48	-63.0	52.9	31.0	24.2
125	-350	10	8	2.53	-72.0	36.9	20.5	8.1
125	-350	9	8	4.76	-78.0	20.5	11.6	2.6
125	-350	8	8	9.29	-84.0	10.7	6.1	0.7

125	-350	7	8	19.51	-86.0	5.1	2.9	0.2
125	-375	15	8	0.10	-92.0	10.0	84.2	90.2
125	-375	15	4	0.27	-98.0	26.7	74.7	92.3
125	-375	14	8	0.45	-80.0	44.0	65.4	84.5
125	-375	14	4	0.56	-70.0	50.1	59.2	75.4
125	-375	13	8	0.69	-62.4	52.9	52.2	65.0
125	-375	13	4	0.80	-60.8	55.9	47.4	57.4
125	-375	12	8	0.96	-57.6	54.9	41.1	46.9
125	-375	12	4	1.15	-61.0	57.8	37.2	37.0
125	-375	11	8	1.44	-62.0	53.0	31.5	25.8
125	-375	10	8	2.44	-66.0	36.3	20.5	10.9
125	-375	9	8	4.44	-72.0	21.3	12.0	4.2
125	-375	8	8	8.42	-72.0	11.3	6.4	2.1
125	-375	7	8	15.38	-60.0	5.6	3.2	1.9
125	-400	15	8	0.12	-124.0	9.9	81.7	93.9
125	-400	15	4	0.36	-96.0	35.7	70.1	92.5
125	-400	14	8	0.54	-76.0	51.2	60.9	79.9
125	-400	14	4	0.64	-66.0	53.2	54.9	69.3
125	-400	13	8	0.80	-58.0	52.8	46.8	56.8
125	-400	13	4	0.90	-57.0	53.8	42.8	50.2
125	-400	12	8	1.10	-57.0	53.9	37.3	40.1
125	-400	12	4	1.28	-58.0	52.4	33.4	32.3
125	-400	11	8	1.60	-61.0	48.6	28.6	22.4
125	-400	10	8	2.67	-68.0	34.0	19.1	9.1
125	-400	9	8	5.00	-76.0	19.4	10.9	2.9
125	-400	8	8	10.00	-80.0	9.8	5.6	1.0
125	-400	7	8	19.05	-78.0	5.1	2.9	0.6
125	-425	15	8	0.19	-152.0	8.7	67.9	99.6
125	-425	15	4	0.40	-92.0	40.0	68.1	91.0
125	-425	14	8	0.55	-72.0	50.3	59.9	77.0
125	-425	14	4	0.54	-66.4	46.3	59.7	74.5
125	-425	13	8	0.80	-60.8	55.7	47.6	57.7
125	-425	13	4	0.91	-58.4	55.4	43.1	50.1
125	-425	12	8	1.13	-57.0	53.6	36.5	38.7
125	-425	12	4	1.32	-60.0	53.8	33.3	30.5
125	-425	11	8	1.64	-64.0	49.9	28.7	20.2
125	-425	10	8	2.78	-69.6	33.2	18.6	8.0
125	-425	9	8	5.26	-82.0	18.8	10.6	1.6
125	-425	8	8	10.26	-92.0	9.7	5.5	-0.2
125	-425	7	8	19.05	-100.0	5.2	2.9	-0.5
125	-450	15	8	0.13	-120.0	10.8	81.7	93.6
125	-450	15	4	0.42	-100.0	41.1	66.9	95.0
125	-450	14	8	0.59	-74.0	54.6	58.4	76.7
125	-450	14	4	0.69	-66.0	55.9	53.1	66.8
125	-450	13	8	0.82	-59.0	54.6	46.0	55.3
125	-450	13	4	0.95	-56.0	53.0	41.1	47.6
125	-450	12	8	1.13	-56.0	52.5	36.2	38.8
125	-450	12	4	1.33	-58.0	51.5	32.4	30.6
125	-450	11	8	1.68	-60.0	46.2	27.2	21.3
125	-450	10	8	2.86	-69.0	32.1	18.0	8.0
125	-450	9	8	5.26	-76.0	18.4	10.4	2.7
125	-450	8	8	10.26	-82.4	9.7	5.5	0.7
125	-450	7	8	20.51	-80.0	4.8	2.7	0.5
125	-475	15	8	0.13	-136.0	8.6	79.7	95.2
125	-475	15	4	0.37	-92.0	37.0	69.6	90.9
125	-475	14	8	0.58	-72.0	53.2	58.4	75.6
125	-475	14	4	0.69	-64.0	54.7	52.2	65.2
125	-475	13	8	0.83	-58.4	54.2	45.5	54.5
125	-475	13	4	0.98	-56.0	53.2	40.2	46.0
125	-475	12	8	1.19	-57.0	52.8	35.1	36.1
125	-475	12	4	1.38	-56.0	48.8	31.0	29.8
125	-475	11	8	1.72	-60.0	45.3	26.6	20.6
125	-475	10	8	2.90	-70.4	32.0	18.0	7.4
125	-475	9	8	5.26	-74.0	18.2	10.3	3.1
125	-475	8	8	10.81	-84.0	9.2	5.2	0.6
125	-475	7	8	21.05	-88.0	4.7	2.7	0.1

125	-500	15	8	0.18	-148.0	9.3	71.2	98.8
125	-500	15	4	0.45	-116.0	38.7	63.4	103.2
125	-500	14	8	0.60	-84.0	59.3	58.8	84.5
125	-500	14	4	0.72	-76.0	66.1	53.4	72.1
125	-500	13	8	0.88	-66.0	63.7	46.0	53.7
125	-500	13	4	1.05	-62.0	59.9	39.9	41.9
125	-500	12	8	1.27	-60.0	54.6	34.2	32.0
125	-500	12	4	1.50	-60.0	49.9	29.9	25.0
125	-500	11	8	1.90	-59.0	41.3	24.2	18.4
125	-500	10	8	3.23	-60.0	26.2	15.0	9.5
125	-500	9	8	5.41	-54.0	14.8	8.5	6.3
125	-500	8	8	9.52	-44.0	7.3	4.1	4.3
125	-500	7	8	11.76	-26.0	3.7	2.1	4.4
125	-525	15	8	0.12	-148.0	6.3	77.2	95.8
125	-525	15	4	0.34	-112.0	31.0	69.8	98.0
125	-525	14	8	0.50	-84.0	49.5	63.3	86.0
125	-525	14	4	0.60	-74.0	55.4	58.0	76.3
125	-525	13	8	0.73	-68.0	59.8	51.9	65.6
125	-525	13	4	0.86	-62.4	59.1	45.8	54.0
125	-525	12	8	1.04	-64.0	62.4	40.7	42.3
125	-525	12	4	1.24	-62.4	57.7	35.5	32.4
125	-525	11	8	1.64	-64.0	49.9	28.7	20.2
125	-525	10	8	2.79	-74.0	34.1	19.0	6.4
125	-525	9	8	5.26	-82.0	18.8	10.6	1.6
125	-525	8	8	10.26	-88.0	9.7	5.5	0.2
125	-525	7	8	20.00	-92.0	5.0	2.8	-0.1
125	-550	15	8	0.12	-132.0	8.9	80.8	94.6
125	-550	15	4	0.40	-124.0	31.4	64.2	104.0
125	-550	14	8	0.55	-86.0	54.8	61.1	86.9
125	-550	14	4	0.65	-72.0	58.2	55.6	72.6
125	-550	13	8	0.76	-65.0	58.7	50.0	61.7
125	-550	13	4	0.89	-64.0	61.6	45.1	52.1
125	-550	12	8	1.06	-61.6	59.4	39.5	41.3
125	-550	12	4	1.31	-62.0	55.9	34.0	30.0
125	-550	11	8	1.60	-64.8	51.4	29.4	20.6
125	-550	10	8	2.74	-73.0	34.5	19.2	6.9
125	-550	9	8	5.13	-82.4	19.3	10.9	1.5
125	-550	8	8	10.13	-89.0	9.9	5.6	0.1
125	-550	7	8	20.00	-96.0	5.0	2.8	-0.3
125	-575	15	8	0.12	-132.0	8.9	80.8	94.6
125	-575	15	4	0.38	-112.0	34.4	67.7	99.2
125	-575	14	8	0.53	-82.0	52.1	61.8	84.2
125	-575	14	4	0.62	-73.0	56.5	57.0	74.8
125	-575	13	8	0.78	-64.0	58.5	49.0	59.9
125	-575	13	4	0.91	-64.0	61.9	44.6	51.1
125	-575	12	8	1.12	-60.0	57.0	37.7	38.7
125	-575	12	4	1.35	-62.4	55.4	33.2	28.3
125	-575	11	8	1.65	-66.0	51.0	28.9	18.9
125	-575	10	8	2.86	-74.4	33.4	18.6	6.1
125	-575	9	8	5.33	-84.0	18.6	10.5	1.2
125	-575	8	8	10.13	-92.0	9.9	5.6	-0.2
125	-575	7	8	19.51	-104.0	5.0	2.8	-0.7
125	-600	15	8	0.16	-136.0	11.0	77.0	96.6
125	-600	15	4	0.38	-108.0	35.6	68.2	97.7
125	-600	14	8	0.55	-82.0	54.0	60.9	83.8
125	-600	14	4	0.66	-71.0	58.2	55.0	71.4
125	-600	13	8	0.80	-64.0	59.2	48.3	58.6
125	-600	13	4	0.95	-62.0	59.9	42.9	48.1
125	-600	12	8	1.15	-61.0	57.8	37.2	37.0
125	-600	12	4	1.35	-64.0	56.9	33.6	27.6
125	-600	11	8	1.68	-68.0	51.6	28.8	17.3
125	-600	10	8	2.86	-78.0	34.0	18.8	4.7
125	-600	9	8	5.33	-90.0	18.8	10.6	0.0
125	-600	8	8	10.00	-104.0	9.7	5.5	-1.4
125	-600	7	8	16.00	-122.0	5.3	3.0	-1.9

250 E

LINE	STATION	FCODE	RATIO	PHASE	ELLIPT	QUAD	TILT
250	000	15 8	0.15	-136.0	10.3	77.8	96.2
250	000	15 4	0.36	-104.0	34.6	69.6	95.7
250	000	14 8	0.60	-86.0	59.7	58.9	86.3
250	000	14 4	0.71	-76.0	65.4	53.8	72.6
250	000	13 8	0.89	-68.0	66.3	46.1	53.7
250	000	13 4	1.09	-66.0	64.4	40.0	39.2
250	000	12 8	1.37	-66.0	58.3	33.6	25.9
250	000	12 4	1.71	-68.0	50.9	28.4	16.8
250	000	11 8	2.22	-69.0	40.7	22.7	11.0
250	000	10 8	3.92	-70.0	23.8	13.4	5.3
250	000	9 8	7.41	-72.0	12.8	7.3	2.4
250	000	8 8	14.81	-70.4	6.4	3.6	1.3
250	000	7 8	26.67	-54.0	3.0	1.7	1.3
250	-025	15 8	0.19	-108.0	18.0	78.7	93.5
250	-025	15 4	0.35	-112.0	31.8	69.3	98.3
250	-025	14 8	0.63	-82.0	61.1	57.7	82.0
250	-025	14 4	0.75	-74.0	66.6	52.0	68.3
250	-025	13 8	0.93	-69.0	68.2	45.1	50.7
250	-025	13 4	1.16	-66.0	63.2	38.1	34.8
250	-025	12 8	1.43	-68.4	58.8	33.0	22.6
250	-025	12 4	1.75	-70.4	51.1	28.2	14.8
250	-025	11 8	2.35	-75.0	40.5	22.3	7.5
250	-025	10 8	4.08	-82.4	24.3	13.6	2.0
250	-025	9 8	7.69	-96.0	12.9	7.3	-0.8
250	-025	8 8	14.55	-112.0	6.4	3.6	-1.5
250	-025	7 8	21.62	-132.0	3.4	1.9	-1.8
250	-050	15 8	0.11	-136.0	7.6	81.0	94.6
250	-050	15 4	0.24	-108.0	22.7	75.8	94.5
250	-050	14 8	0.49	-86.0	48.8	63.8	87.4
250	-050	14 4	0.61	-76.0	56.9	58.0	77.6
250	-050	13 8	0.79	-70.0	65.1	49.9	62.4
250	-050	13 4	0.94	-68.0	67.1	44.6	49.7
250	-050	12 8	1.21	-68.0	64.4	37.4	31.3
250	-050	12 4	1.49	-71.0	58.9	32.3	19.2
250	-050	11 8	1.98	-74.4	47.5	25.9	10.0
250	-050	10 8	3.57	-82.0	27.7	15.4	2.4
250	-050	9 8	6.67	-92.0	15.0	8.5	-0.3
250	-050	8 8	12.50	-108.0	7.6	4.3	-1.4
250	-050	7 8	22.22	-120.0	3.9	2.2	-1.3
250	-075	15 8	0.11	-116.0	9.9	83.0	92.8
250	-075	15 4	0.28	-100.0	27.5	74.1	93.0
250	-075	14 8	0.44	-84.0	43.6	66.1	86.7
250	-075	14 4	0.55	-74.0	51.3	60.2	78.3
250	-075	13 8	0.68	-68.0	57.2	53.7	68.3
250	-075	13 4	0.82	-68.0	64.4	48.3	58.7
250	-075	12 8	1.04	-68.0	67.3	41.6	41.9
250	-075	12 4	1.25	-69.0	64.5	36.7	28.9
250	-075	11 8	1.65	-74.0	55.9	30.1	13.9
250	-075	10 8	3.03	-80.0	32.4	18.0	3.7
250	-075	9 8	5.76	-88.0	17.4	9.8	0.4
250	-075	8 8	11.27	-97.0	8.8	5.0	-0.6
250	-075	7 8	20.51	-108.0	4.6	2.6	-0.9
250	-100	15 8	0.10	-120.0	8.6	83.4	92.9
250	-100	15 4	0.28	-104.0	27.0	73.9	94.2
250	-100	14 8	0.44	-82.0	43.4	66.0	85.7
250	-100	14 4	0.54	-72.0	49.1	60.6	77.6
250	-100	13 8	0.64	-64.0	51.7	54.5	68.2
250	-100	13 4	0.77	-62.0	56.1	48.9	59.7
250	-100	12 8	0.94	-64.0	62.2	43.8	49.4
250	-100	12 4	1.14	-65.0	62.5	38.5	36.6
250	-100	11 8	1.47	-69.6	58.5	32.5	20.7
250	-100	10 8	2.63	-76.0	36.5	20.2	6.1

250	-100	9	8	5.00	-80.0	19.7	11.1	2.1
250	-100	8	8	9.88	-90.0	10.1	5.7	0.0
250	-100	7	8	17.39	-96.0	5.7	3.2	-0.3
250	-125	15	8	0.20	-124.0	16.4	76.4	96.6
250	-125	15	4	0.44	-108.0	40.9	65.1	99.3
250	-125	14	8	0.49	-77.6	47.2	63.3	82.3
250	-125	14	4	0.59	-66.0	50.0	57.1	71.8
250	-125	13	8	0.69	-60.0	51.0	51.4	63.6
250	-125	13	4	0.78	-58.0	52.4	47.3	57.7
250	-125	12	8	0.95	-58.0	55.3	41.7	47.8
250	-125	12	4	1.12	-62.0	59.3	38.3	38.4
250	-125	11	8	1.42	-66.0	57.0	32.7	24.4
250	-125	10	8	2.44	-73.6	38.7	21.4	7.8
250	-125	9	8	4.44	-80.0	22.1	12.4	2.4
250	-125	8	8	9.19	-84.0	10.8	6.1	0.7
250	-125	7	8	18.18	-84.0	5.5	3.1	0.3
250	-150	15	8	0.25	-118.0	22.2	73.8	97.2
250	-150	15	4	0.37	-84.0	36.7	69.5	87.4
250	-150	14	8	0.52	-74.0	49.1	61.3	79.1
250	-150	14	4	0.63	-64.0	51.4	54.7	68.5
250	-150	13	8	0.75	-60.0	53.4	49.1	60.1
250	-150	13	4	0.88	-56.0	52.4	43.2	51.5
250	-150	12	8	1.05	-57.6	54.8	38.7	42.2
250	-150	12	4	1.21	-60.0	55.7	35.5	34.4
250	-150	11	8	1.54	-65.6	53.6	30.6	21.5
250	-150	10	8	2.63	-76.0	36.5	20.2	6.1
250	-150	9	8	4.88	-86.0	20.4	11.5	0.9
250	-150	8	8	9.30	-96.0	10.7	6.1	-0.7
250	-150	7	8	17.78	-112.0	5.2	2.9	-1.2
250	-175	15	8	0.17	-128.0	13.2	77.8	96.1
250	-175	15	4	0.35	-100.0	34.8	70.1	94.0
250	-175	14	8	0.52	-79.0	50.8	61.8	82.3
250	-175	14	4	0.63	-68.0	54.0	55.8	71.0
250	-175	13	8	0.74	-60.0	53.1	49.4	60.7
250	-175	13	4	0.83	-55.0	50.6	44.4	53.8
250	-175	12	8	0.99	-56.0	53.2	39.9	45.5
250	-175	12	4	1.16	-56.0	52.2	35.6	37.7
250	-175	11	8	1.43	-58.0	49.7	30.6	27.7
250	-175	10	8	2.44	-68.0	37.0	20.8	10.1
250	-175	9	8	4.44	-71.0	21.2	12.0	4.4
250	-175	8	8	8.89	-68.0	10.4	5.9	2.4
250	-175	7	8	15.38	-58.0	5.5	3.1	2.0
250	-200	15	8	0.16	-132.0	11.8	77.8	96.2
250	-200	15	4	0.39	-108.0	36.5	67.7	97.9
250	-200	14	8	0.54	-80.0	52.1	61.4	82.7
250	-200	14	4	0.65	-70.0	56.8	55.3	71.2
250	-200	13	8	0.79	-60.0	54.8	47.6	57.7
250	-200	13	4	0.89	-56.0	52.5	42.9	50.9
250	-200	12	8	1.06	-56.0	53.0	37.9	41.8
250	-200	12	4	1.24	-60.0	55.2	34.8	33.2
250	-200	11	8	1.55	-62.0	50.5	29.6	23.0
250	-200	10	8	2.63	-70.0	35.0	19.6	8.4
250	-200	9	8	4.88	-78.0	20.0	11.3	2.5
250	-200	8	8	9.64	-80.0	10.2	5.8	1.0
250	-200	7	8	19.51	-80.0	5.0	2.8	0.5
250	-225	15	8	0.12	-120.0	10.4	82.1	93.5
250	-225	15	4	0.34	-100.0	33.4	70.9	93.8
250	-225	14	8	0.54	-80.0	52.1	61.4	82.7
250	-225	14	4	0.69	-70.0	59.1	53.9	69.3
250	-225	13	8	0.81	-64.0	59.4	48.1	58.3
250	-225	13	4	0.94	-60.0	57.5	42.6	48.5
250	-225	12	8	1.15	-60.0	56.7	37.0	37.2
250	-225	12	4	1.35	-62.0	55.0	33.1	28.5
250	-225	11	8	1.70	-64.0	48.6	27.9	19.2
250	-225	10	8	2.94	-76.0	32.7	18.2	5.3
250	-225	9	8	5.33	-85.0	18.7	10.5	1.0

250	-225	8	8	10.39	-97.6	9.5	5.4	-0.7
250	-225	7	8	19.51	-110.0	4.8	2.7	-1.0
250	-250	15	8	0.06	-52.0	4.7	85.6	87.9
250	-250	15	4	0.20	-92.0	20.5	78.4	90.4
250	-250	14	8	0.49	-84.0	48.6	63.7	86.2
250	-250	14	4	0.66	-71.0	58.2	55.0	71.4
250	-250	13	8	0.81	-62.4	57.8	47.5	57.3
250	-250	13	4	0.96	-60.0	57.7	41.9	47.0
250	-250	12	8	1.19	-61.0	57.1	36.3	35.1
250	-250	12	4	1.40	-62.0	53.9	32.2	27.0
250	-250	11	8	1.79	-64.0	46.7	26.7	17.8
250	-250	10	8	3.13	-72.0	30.1	16.9	6.2
250	-250	9	8	5.76	-80.0	17.1	9.7	1.8
250	-250	8	8	11.76	-86.0	8.5	4.8	0.3
250	-250	7	8	22.86	-89.0	4.4	2.5	0.0
250	-275	15	8	0.11	-96.0	10.9	83.6	90.7
250	-275	15	4	0.22	-68.0	20.3	76.6	85.1
250	-275	14	8	0.51	-40.0	28.1	51.5	66.7
250	-275	14	4	0.83	-34.0	29.9	33.9	51.4
250	-275	13	8	1.51	-36.0	29.4	21.2	31.1
250	-275	13	4	2.35	-54.0	32.1	18.9	15.7
250	-275	12	8	3.03	-82.0	32.6	18.0	2.9
250	-275	12	4	2.94	-108.0	31.9	17.9	-6.7
250	-275	11	8	2.63	-128.0	28.3	16.6	-14.3
250	-275	10	8	2.25	-148.0	20.5	13.2	-21.6
250	-275	9	8	2.13	-158.0	14.7	9.9	-24.1
250	-275	8	8	2.13	-168.0	8.1	5.5	-24.9
250	-275	7	8	2.08	-170.0	6.8	4.7	-25.4
250	-300	15	8	0.10	-60.0	8.6	83.4	87.1
250	-300	15	4	0.10	-124.0	8.3	83.1	93.2
250	-300	14	8	0.38	-100.0	37.7	68.6	94.5
250	-300	14	4	0.52	-84.0	51.5	62.3	85.8
250	-300	13	8	0.67	-69.0	57.1	54.5	69.7
250	-300	13	4	0.79	-64.8	59.5	49.0	59.9
250	-300	12	8	0.96	-60.8	58.6	42.3	47.5
250	-300	12	4	1.15	-60.8	57.5	37.2	37.0
250	-300	11	8	1.44	-63.0	53.9	31.7	25.3
250	-300	10	8	2.47	-65.0	35.5	20.1	11.1
250	-300	9	8	4.44	-62.0	19.6	11.2	6.3
250	-300	8	8	7.84	-56.0	10.5	6.0	4.1
250	-300	7	8	11.76	-38.0	5.2	2.9	3.8
250	-325	15	8	0.12	-48.0	8.9	80.8	85.4
250	-325	15	4	0.12	-108.0	11.4	82.8	92.2
250	-325	14	8	0.40	-96.0	39.2	68.3	92.8
250	-325	14	4	0.54	-81.0	52.8	61.3	83.3
250	-325	13	8	0.69	-68.8	58.2	53.6	68.5
250	-325	13	4	0.80	-64.0	59.2	48.3	58.6
250	-325	12	8	1.00	-62.0	60.1	41.5	45.3
250	-325	12	4	1.22	-62.0	57.7	35.8	33.5
250	-325	11	8	1.53	-61.6	50.7	29.9	23.7
250	-325	10	8	2.60	-64.8	33.8	19.2	10.5
250	-325	9	8	4.76	-65.6	19.0	10.8	5.1
250	-325	8	8	8.51	-59.6	10.1	5.7	3.4
250	-325	7	8	13.11	-40.0	4.9	2.8	3.4
250	-350	15	8	0.08	-48.0	5.9	83.8	86.9
250	-350	15	4	0.18	-116.0	16.1	78.6	94.6
250	-350	14	8	0.47	-92.0	46.5	65.0	91.2
250	-350	14	4	0.58	-76.0	55.2	58.9	78.4
250	-350	13	8	0.73	-66.0	58.0	51.5	64.4
250	-350	13	4	0.86	-62.0	58.7	45.7	53.9
250	-350	12	8	1.06	-62.0	59.9	39.8	41.6
250	-350	12	4	1.27	-62.0	56.6	34.7	31.2
250	-350	11	8	1.64	-62.0	48.5	28.3	21.2
250	-350	10	8	2.78	-66.0	32.1	18.2	9.3
250	-350	9	8	5.00	-70.0	18.7	10.6	4.1
250	-350	8	8	9.41	-68.0	9.8	5.6	2.3

250	-350	7	8	17.39	-57.0	4.8	2.7	1.8
250	-375	15	8	0.12	-140.0	7.6	79.4	95.3
250	-375	15	4	0.26	-108.0	24.6	74.7	94.9
250	-375	14	8	0.51	-84.0	50.5	62.8	85.9
250	-375	14	4	0.65	-74.0	59.4	55.9	74.1
250	-375	13	8	0.80	-66.0	61.1	48.9	59.8
250	-375	13	4	0.96	-64.0	62.4	43.1	47.7
250	-375	12	8	1.16	-62.0	58.7	37.2	36.1
250	-375	12	4	1.39	-62.0	54.1	32.4	27.3
250	-375	11	8	1.80	-60.0	43.8	25.6	19.4
250	-375	10	8	2.98	-75.0	32.1	17.9	5.5
250	-375	9	8	5.67	-81.6	17.4	9.8	1.5
250	-375	8	8	10.96	-90.0	9.1	5.2	0.0
250	-375	7	8	22.22	-98.0	4.5	2.5	-0.4
250	-400	15	8	0.12	-112.0	11.1	82.6	92.6
250	-400	15	4	0.31	-116.0	27.3	70.9	98.4
250	-400	14	8	0.56	-86.0	55.7	60.6	86.8
250	-400	14	4	0.65	-74.0	59.4	55.9	74.1
250	-400	13	8	0.80	-62.0	57.1	47.8	57.8
250	-400	13	4	0.93	-64.0	62.1	44.0	49.7
250	-400	12	8	1.15	-60.0	56.7	37.0	37.2
250	-400	12	4	1.38	-62.0	54.4	32.6	27.6
250	-400	11	8	1.74	-64.0	47.7	27.3	18.5
250	-400	10	8	2.94	-71.0	31.7	17.8	7.0
250	-400	9	8	5.26	-75.0	18.3	10.3	2.9
250	-400	8	8	10.39	-76.0	9.3	5.3	1.3
250	-400	7	8	19.51	-74.0	4.9	2.8	0.8
250	-425	15	8	0.12	-116.0	10.8	82.3	93.0
250	-425	15	4	0.38	-108.0	36.0	67.9	97.8
250	-425	14	8	0.58	-81.0	57.1	59.3	82.2
250	-425	14	4	0.68	-69.6	58.5	54.0	69.3
250	-425	13	8	0.84	-62.0	58.2	46.4	55.2
250	-425	13	4	0.96	-60.0	57.6	42.0	47.3
250	-425	12	8	1.21	-60.8	56.6	35.7	34.2
250	-425	12	4	1.41	-62.4	54.1	32.1	26.5
250	-425	11	8	1.80	-62.0	45.1	26.1	18.5
250	-425	10	8	3.03	-73.0	31.2	17.5	6.1
250	-425	9	8	5.41	-84.0	18.4	10.4	1.1
250	-425	8	8	10.26	-96.0	9.7	5.5	-0.6
250	-425	7	8	19.05	-108.0	5.0	2.8	-0.9
250	-450	15	8	0.16	-112.0	14.8	80.2	93.5
250	-450	15	4	0.45	-92.0	45.0	65.7	91.1
250	-450	14	8	0.67	-72.0	59.2	55.0	71.8
250	-450	14	4	0.81	-62.4	57.7	47.7	57.6
250	-450	13	8	0.97	-58.0	55.4	41.1	46.6
250	-450	13	4	1.13	-56.0	52.5	36.2	38.8
250	-450	12	8	1.37	-54.0	47.1	30.5	30.7
250	-450	12	4	1.60	-57.6	46.0	27.8	23.9
250	-450	11	8	2.00	-60.8	40.7	23.5	16.5
250	-450	10	8	3.33	-70.0	27.9	15.7	6.4
250	-450	9	8	5.80	-75.0	16.6	9.4	2.6
250	-450	8	8	11.59	-84.0	8.6	4.9	0.5
250	-450	7	8	22.22	-86.0	4.5	2.5	0.2
250	-475	15	8	0.24	-120.0	20.5	74.5	97.1
250	-475	15	4	0.45	-104.0	43.0	65.1	97.6
250	-475	14	8	0.60	-85.0	59.5	58.9	85.4
250	-475	14	4	0.69	-72.0	61.0	54.0	70.4
250	-475	13	8	0.87	-66.0	63.5	46.3	54.5
250	-475	13	4	1.00	-64.0	62.5	41.9	45.0
250	-475	12	8	1.27	-61.6	56.4	34.7	31.7
250	-475	12	4	1.51	-62.0	51.3	30.2	23.8
250	-475	11	8	1.92	-62.0	42.7	24.6	16.9
250	-475	10	8	3.28	-66.4	27.5	15.6	7.5
250	-475	9	8	5.80	-68.0	15.9	9.0	3.8
250	-475	8	8	11.11	-66.0	8.2	4.7	2.1
250	-475	7	8	20.00	-52.0	3.9	2.2	1.8

250	-500	15	8	0.31	-128.0	23.5	68.5	101.4
250	-500	15	4	0.45	-96.0	44.6	65.6	93.4
250	-500	14	8	0.60	-80.0	58.1	58.6	81.0
250	-500	14	4	0.73	-70.0	61.6	52.3	66.9
250	-500	13	8	0.87	-64.0	61.0	46.0	54.2
250	-500	13	4	1.03	-62.0	60.0	40.7	43.4
250	-500	12	8	1.32	-64.0	57.7	34.3	28.8
250	-500	12	4	1.54	-62.4	51.1	29.9	23.1
250	-500	11	8	1.98	-66.0	43.8	24.7	14.4
250	-500	10	8	3.45	-75.0	27.8	15.6	4.7
250	-500	9	8	6.25	-82.0	15.8	9.0	1.3
250	-500	8	8	12.31	-92.0	8.1	4.6	-0.2
250	-500	7	8	23.53	-100.0	4.2	2.3	-0.4
250	-525	15	8	0.29	-120.0	24.6	71.4	98.8
250	-525	15	4	0.48	-92.0	48.0	64.3	91.2
250	-525	14	8	0.62	-78.0	59.1	57.6	78.6
250	-525	14	4	0.72	-69.0	60.4	52.3	66.6
250	-525	13	8	0.85	-62.4	58.9	46.1	54.7
250	-525	13	4	1.02	-60.0	57.7	40.3	43.9
250	-525	12	8	1.26	-62.0	57.0	35.0	31.9
250	-525	12	4	1.53	-62.0	51.0	30.0	23.6
250	-525	11	8	1.96	-64.0	43.1	24.6	15.6
250	-525	10	8	3.28	-70.4	28.4	16.0	6.4
250	-525	9	8	5.97	-72.0	15.9	9.0	3.0
250	-525	8	8	11.76	-74.0	8.2	4.6	1.4
250	-525	7	8	22.86	-68.0	4.1	2.3	0.9
250	-550	15	8	0.41	-114.0	36.3	65.8	100.9
250	-550	15	4	0.58	-94.0	57.7	59.8	93.5
250	-550	14	8	0.67	-72.0	59.2	55.0	71.8
250	-550	14	4	0.78	-65.0	59.5	49.2	60.4
250	-550	13	8	0.95	-61.0	58.7	42.6	48.0
250	-550	13	4	1.11	-60.0	57.1	37.9	39.0
250	-550	12	8	1.39	-61.6	53.8	32.3	27.4
250	-550	12	4	1.64	-63.0	49.2	28.5	20.7
250	-550	11	8	2.08	-64.8	41.3	23.4	14.0
250	-550	10	8	3.70	-74.4	25.9	14.5	4.5
250	-550	9	8	6.67	-82.0	14.8	8.4	1.2
250	-550	8	8	12.90	-90.0	7.8	4.4	0.0
250	-550	7	8	25.00	-96.0	4.0	2.2	-0.2
250	-575	15	8	0.32	-100.0	31.4	71.9	93.5
250	-575	15	4	0.55	-87.0	54.9	61.1	87.6
250	-575	14	8	0.67	-72.8	59.8	55.1	72.4
250	-575	14	4	0.75	-66.0	59.2	50.6	62.8
250	-575	13	8	0.93	-61.6	59.2	43.5	49.7
250	-575	13	4	1.09	-62.0	59.6	39.0	40.0
250	-575	12	8	1.34	-64.0	57.1	33.8	27.9
250	-575	12	4	1.60	-66.0	52.3	29.7	19.9
250	-575	11	8	2.08	-70.0	43.6	24.2	11.6
250	-575	10	8	3.51	-82.0	28.2	15.7	2.5
250	-575	9	8	6.15	-98.0	16.1	9.1	-1.3
250	-575	8	8	10.39	-120.0	8.3	4.7	-2.8
250	-575	7	8	14.29	-140.0	4.5	2.5	-3.1
250	-600	15	8	0.24	-116.0	21.3	75.0	96.3
250	-600	15	4	0.41	-96.0	40.2	67.8	92.9
250	-600	14	8	0.54	-78.0	51.9	61.0	81.2
250	-600	14	4	0.63	-68.0	54.0	55.8	71.0
250	-600	13	8	0.76	-60.0	53.8	48.7	59.5
250	-600	13	4	0.87	-60.0	56.6	44.8	52.8
250	-600	12	8	1.06	-58.0	55.2	38.5	41.7
250	-600	12	4	1.27	-60.0	54.8	34.3	32.3
250	-600	11	8	1.60	-60.0	47.8	28.4	22.9
250	-600	10	8	2.70	-62.0	31.6	18.0	11.0
250	-600	9	8	4.65	-60.0	18.4	10.5	6.4
250	-600	8	8	8.16	-50.0	9.3	5.3	4.5
250	-600	7	8	11.76	-32.0	4.5	2.5	4.1

LINE	STATION	FCODE	RATIO	PHASE	ELLIPT	QUAD	TILT
500	000	15 8	1.42	-66.0	57.0	32.7	24.4
500	000	15 4	1.60	-58.0	46.3	27.9	23.7
500	000	14 8	1.82	-51.0	37.4	23.1	22.4
500	000	14 4	2.00	-45.0	31.0	19.4	21.7
500	000	13 8	1.80	-50.4	37.2	23.1	22.8
500	000	13 4	2.02	-47.0	32.1	19.9	20.9
500	000	12 8	2.27	-42.4	26.6	16.5	19.4
500	000	12 4	2.47	-41.6	24.5	15.0	18.0
500	000	11 8	2.90	-44.0	22.5	13.4	14.7
500	000	10 8	6.72	-60.8	12.9	7.3	4.2
500	000	9 8	11.59	-74.0	8.3	4.7	1.4
500	000	8 8	23.53	-76.0	4.1	2.3	0.6
500	000	7 8	44.44	-72.0	2.1	1.2	0.4
500	-025	15 8	1.16	-66.0	63.2	38.1	34.8
500	-025	15 4	1.38	-58.0	50.6	31.5	29.2
500	-025	14 8	1.65	-52.0	40.7	25.4	24.8
500	-025	14 4	1.85	-48.0	34.8	21.8	22.8
500	-025	13 8	2.13	-44.0	29.0	18.0	20.5
500	-025	13 4	2.50	-44.0	25.5	15.5	17.2
500	-025	12 8	2.86	-45.0	23.2	13.9	14.7
500	-025	12 4	3.28	-47.0	21.3	12.5	12.3
500	-025	11 8	4.17	-51.0	18.2	10.5	8.9
500	-025	10 8	12.31	-54.0	6.6	3.7	2.7
500	-025	9 8	10.96	-48.0	6.8	3.8	3.5
500	-025	8 8	16.33	-36.0	3.6	2.0	2.8
500	-025	7 8	19.05	-20.0	1.8	1.0	2.8
500	-050	15 8	0.94	-68.0	67.1	44.6	49.7
500	-050	15 4	1.12	-63.0	60.5	38.5	38.1
500	-050	14 8	1.33	-58.0	51.5	32.4	30.6
500	-050	14 4	1.56	-54.0	43.8	27.3	25.9
500	-050	13 8	1.87	-53.6	38.4	23.2	20.8
500	-050	13 4	2.20	-52.0	32.9	19.7	17.6
500	-050	12 8	2.60	-54.0	29.5	17.3	14.0
500	-050	12 4	3.13	-58.0	26.3	15.1	10.3
500	-050	11 8	3.92	-58.4	21.3	12.2	8.0
500	-050	10 8	6.61	-68.0	14.0	7.9	3.3
500	-050	9 8	11.76	-65.6	7.7	4.4	2.0
500	-050	8 8	22.22	-60.8	3.9	2.2	1.3
500	-050	7 8	37.21	-46.8	2.0	1.1	1.1
500	-075	15 8	1.18	-52.0	47.7	33.6	37.3
500	-075	15 4	1.41	-50.4	43.1	28.6	30.7
500	-075	14 8	1.56	-49.0	39.6	25.7	27.4
500	-075	14 4	1.82	-48.8	35.9	22.4	23.0
500	-075	13 8	2.13	-50.4	32.9	19.9	18.8
500	-075	13 4	2.47	-52.0	29.9	17.7	15.4
500	-075	12 8	2.94	-58.4	28.0	16.1	11.0
500	-075	12 4	3.64	-64.0	24.3	13.8	7.3
500	-075	11 8	4.55	-72.0	20.8	11.8	4.1
500	-075	10 8	7.62	-92.0	13.1	7.4	-0.3
500	-075	9 8	12.31	-108.0	7.7	4.4	-1.4
500	-075	8 8	17.02	-134.0	4.2	2.4	-2.3
500	-075	7 8	17.39	-148.0	3.0	1.7	-2.8
500	-100	15 8	1.32	-77.0	69.8	36.5	19.5
500	-100	15 4	1.77	-70.0	50.5	27.9	14.8
500	-100	14 8	2.15	-63.0	39.3	22.5	14.2
500	-100	14 4	2.56	-62.0	33.2	19.0	11.7
500	-100	13 8	3.28	-64.0	26.9	15.3	8.2
500	-100	13 4	3.86	-65.0	23.2	13.2	6.6
500	-100	12 8	4.88	-71.0	19.3	10.9	4.0
500	-100	12 4	5.88	-76.8	16.5	9.3	2.3
500	-100	11 8	7.69	-85.0	12.9	7.3	0.7

500	-100	10	8	11.91	-106.0	8.1	4.6	-1.3
500	-100	9	8	16.67	-132.0	4.5	2.5	-2.3
500	-100	8	8	19.51	-152.0	2.4	1.3	-2.6
500	-100	7	8	20.00	-160.0	1.7	0.9	-2.7
500	-125	15	8	0.46	-104.0	43.5	64.8	97.8
500	-125	15	4	0.78	-98.0	75.1	51.7	104.5
500	-125	14	8	1.35	-96.0	72.7	36.3	-9.4
500	-125	14	4	1.89	-90.0	53.0	27.9	0.0
500	-125	13	8	2.70	-89.6	37.0	20.3	0.2
500	-125	13	4	3.51	-90.0	28.5	15.9	0.0
500	-125	12	8	4.55	-96.0	21.9	12.3	-1.4
500	-125	12	4	5.63	-100.0	17.5	9.9	-1.8
500	-125	11	8	7.27	-114.0	12.5	7.1	-3.3
500	-125	10	8	9.76	-136.0	7.1	4.0	-4.2
500	-125	9	8	10.81	-154.0	4.0	2.3	-4.8
500	-125	8	8	10.81	-162.0	2.8	1.6	-5.0
500	-125	7	8	10.96	-168.0	1.9	1.0	-5.1
500	-150	15	8	0.38	-130.0	27.3	63.6	104.9
500	-150	15	4	0.61	-144.0	28.1	44.1	118.5
500	-150	14	8	0.84	-162.0	15.6	20.1	129.8
500	-150	14	4	1.12	-144.0	32.2	27.7	-41.1
500	-150	13	8	1.64	-130.0	39.3	25.0	-25.7
500	-150	13	4	2.02	-122.0	38.8	22.7	-17.4
500	-150	12	8	2.78	-116.0	31.5	17.9	-10.0
500	-150	12	4	3.70	-116.0	23.9	13.6	-7.2
500	-150	11	8	5.00	-120.0	17.1	9.8	-5.9
500	-150	10	8	7.14	-136.0	9.6	5.5	-5.8
500	-150	9	8	8.42	-152.0	5.5	3.1	-6.0
500	-150	8	8	8.89	-160.0	3.8	2.2	-6.0
500	-150	7	8	8.70	-168.0	2.4	1.3	-6.4
500	-175	15	8	0.30	-204.0	-11.3	53.5	105.5
500	-175	15	4	0.33	-170.0	5.2	27.7	108.1
500	-175	14	8	0.36	-152.0	15.3	52.5	108.1
500	-175	14	4	0.39	-136.0	25.0	60.6	106.7
500	-175	13	8	0.47	-122.0	37.2	61.0	106.3
500	-175	13	4	0.58	-116.0	48.3	56.9	109.0
500	-175	12	8	0.77	-106.0	68.2	51.1	113.5
500	-175	12	4	0.95	-104.0	77.7	45.6	129.0
500	-175	11	8	1.41	-100.0	68.0	34.9	-13.2
500	-175	10	8	2.78	-102.0	35.0	19.3	-4.9
500	-175	9	8	4.88	-116.0	18.3	10.4	-5.3
500	-175	8	8	7.69	-134.0	9.3	5.3	-5.2
500	-175	7	8	9.19	-150.0	5.4	3.1	-5.4
500	-200	15	8	0.09	-124.0	7.4	83.8	92.9
500	-200	15	4	0.32	-92.0	32.0	72.2	90.7
500	-200	14	8	0.42	-70.0	38.5	65.9	80.4
500	-200	14	4	0.47	-62.4	39.4	62.0	75.4
500	-200	13	8	0.55	-60.0	43.2	57.8	71.1
500	-200	13	4	0.64	-64.0	52.0	54.3	68.0
500	-200	12	8	0.82	-66.4	62.5	48.1	58.3
500	-200	12	4	1.04	-70.0	69.9	42.2	42.0
500	-200	11	8	1.38	-77.6	67.7	35.3	16.6
500	-200	10	8	2.50	-88.0	40.0	21.7	1.0
500	-200	9	8	4.88	-100.0	20.2	11.4	-2.1
500	-200	8	8	8.60	-116.0	10.4	5.9	-2.9
500	-200	7	8	12.12	-134.0	5.9	3.3	-3.3
500	-225	15	8	0.10	-80.0	9.8	84.2	89.0
500	-225	15	4	0.20	-102.0	19.5	78.4	92.5
500	-225	14	8	0.37	-80.0	36.3	69.4	85.8
500	-225	14	4	0.47	-67.0	41.2	63.1	77.6
500	-225	13	8	0.55	-58.0	42.2	57.0	70.1
500	-225	13	4	0.61	-52.0	40.9	52.2	64.9
500	-225	12	8	0.74	-52.0	45.5	46.7	58.2
500	-225	12	4	0.89	-52.0	48.2	41.5	50.4
500	-225	11	8	1.12	-50.0	46.2	34.4	40.1
500	-225	10	8	1.72	-44.0	33.5	21.9	25.8

500	-225	9	8	2.47	-32.0	19.1	12.1	19.7
500	-225	8	8	3.03	-20.0	10.3	6.4	17.4
500	-225	7	8	3.13	-10.0	5.1	3.1	17.5
500	-250	15	8	0.17	-48.0	12.5	77.1	83.4
500	-250	15	4	0.38	-24.0	13.8	46.9	70.5
500	-250	14	8	0.78	-8.0	6.8	10.1	52.1
500	-250	14	4	1.38	-2.0	1.7	1.4	35.9
500	-250	13	8	2.90	-7.0	3.8	2.4	18.9
500	-250	13	4	6.20	-36.0	9.3	5.4	7.5
500	-250	12	8	5.97	-100.0	16.5	9.3	-1.7
500	-250	12	4	4.26	-126.0	18.6	10.7	-8.2
500	-250	11	8	3.23	-140.0	18.8	11.2	-13.9
500	-250	10	8	2.47	-152.0	16.8	10.7	-20.3
500	-250	9	8	2.30	-166.0	8.9	6.0	-23.1
500	-250	8	8	2.25	-168.0	7.8	5.2	-23.7
500	-250	7	8	2.27	-168.0	7.7	5.2	-23.4
500	-275	15	8	0.06	-80.0	5.9	86.5	89.4
500	-275	15	4	2.00	-60.0	40.3	23.4	16.8
500	-275	14	8	1.43	-56.0	47.9	30.1	28.4
500	-275	14	4	1.44	-54.0	45.9	29.3	28.8
500	-275	13	8	1.53	-54.0	44.4	27.9	26.7
500	-275	13	4	1.72	-52.0	39.6	24.5	23.6
500	-275	12	8	2.06	-54.0	35.8	21.4	18.4
500	-275	12	4	2.38	-56.4	33.0	19.2	14.7
500	-275	11	8	2.94	-61.0	28.9	16.5	10.2
500	-275	10	8	5.00	-66.0	18.1	10.3	4.8
500	-275	9	8	8.89	-76.0	10.9	6.2	1.6
500	-275	8	8	17.39	-81.6	5.7	3.2	0.5
500	-275	7	8	36.36	-80.0	2.7	1.5	0.3
500	-300	15	8	0.06	-80.0	5.9	86.5	89.4
500	-300	15	4	0.10	-80.0	9.8	84.2	89.0
500	-300	14	8	0.19	-128.0	14.8	76.4	96.8
500	-300	14	4	0.32	-14.0	7.1	36.6	72.4
500	-300	13	8	0.57	-2.0	1.5	3.4	60.1
500	-300	13	4	0.86	5.0	-4.3	5.7	49.3
500	-300	12	8	1.41	6.4	-5.3	4.5	35.3
500	-300	12	4	2.02	4.0	-2.8	1.9	26.3
500	-300	11	8	3.08	-2.0	1.0	0.6	18.0
500	-300	10	8	5.41	-16.0	4.9	2.9	10.1
500	-300	9	8	9.19	-23.0	4.2	2.4	5.7
500	-300	8	8	12.50	-20.0	2.7	1.5	4.3
500	-300	7	8	14.81	-12.0	1.4	0.8	3.8
500	-330	15	8	0.04	-80.0	3.9	87.6	89.6
500	-330	15	4	0.14	-40.0	9.2	77.2	83.6
500	-330	14	8	0.25	-22.0	8.7	56.8	77.1
500	-330	14	4	0.46	-14.4	9.5	28.3	65.8
500	-330	13	8	0.82	-6.4	5.5	7.7	50.7
500	-330	13	4	1.35	-2.4	2.0	1.7	36.5
500	-330	12	8	2.27	-16.8	10.8	7.2	23.1
500	-330	12	4	3.57	-18.0	8.1	4.9	15.0
500	-330	11	8	4.88	-36.0	11.7	6.8	9.5
500	-330	10	8	9.76	-78.0	10.0	5.7	1.2
500	-330	9	8	12.50	-118.0	7.1	4.0	-2.2
500	-330	8	8	13.56	-148.0	3.9	2.2	-3.6
500	-330	7	8	13.11	-156.0	3.1	1.7	-4.0
500	-350	15	8	0.05	-40.0	3.2	85.5	87.8
500	-350	15	4	0.22	-20.0	7.2	57.2	78.3
500	-350	14	8	0.50	-18.4	12.8	32.2	64.2
500	-350	14	4	0.86	-16.0	13.9	17.8	49.6
500	-350	13	8	1.43	-25.0	20.7	16.4	34.0
500	-350	13	4	2.02	-30.4	21.0	14.0	24.3
500	-350	12	8	2.82	-48.0	24.9	14.7	14.3
500	-350	12	4	3.64	-62.0	23.9	13.6	7.8
500	-350	11	8	4.55	-80.0	21.6	12.2	2.3
500	-350	10	8	5.20	-112.0	17.8	10.1	-4.3
500	-350	9	8	5.56	-140.0	11.4	6.5	-8.0

500	-350	8	8	5.59	-158.0	6.5	3.8	-9.5
500	-350	7	8	5.71	-164.0	4.7	2.7	-9.6
500	-375	15	8	0.23	-92.0	23.0	77.0	90.5
500	-375	15	4	0.34	-86.0	34.4	70.9	88.4
500	-375	14	8	0.49	-72.0	44.9	62.9	79.3
500	-375	14	4	0.58	-66.0	49.3	57.5	72.3
500	-375	13	8	0.70	-58.0	49.7	50.4	62.3
500	-375	13	4	0.81	-56.0	51.2	45.6	55.4
500	-375	12	8	0.98	-52.0	48.8	38.8	45.9
500	-375	12	4	1.18	-50.4	46.0	33.0	37.6
500	-375	11	8	1.43	-51.0	43.4	28.5	30.0
500	-375	10	8	2.17	-46.4	30.0	18.4	19.4
500	-375	9	8	3.28	-36.0	16.9	10.1	14.3
500	-375	8	8	4.26	-25.0	9.5	5.6	12.1
500	-375	7	8	4.65	-13.0	4.6	2.7	11.9
500	-400	15	8	0.28	-100.0	27.5	74.1	93.0
500	-400	15	4	0.40	-82.0	39.0	68.2	86.3
500	-400	14	8	0.49	-70.0	44.1	62.7	78.3
500	-400	14	4	0.58	-60.0	45.3	56.1	69.4
500	-400	13	8	0.69	-55.6	47.3	49.8	61.7
500	-400	13	4	0.77	-52.0	46.4	45.4	56.4
500	-400	12	8	0.94	-50.0	46.5	39.1	47.8
500	-400	12	4	1.11	-50.4	46.7	34.8	40.5
500	-400	11	8	1.33	-54.0	47.7	31.2	31.8
500	-400	10	8	2.13	-56.0	36.1	21.2	17.0
500	-400	9	8	3.57	-50.0	20.7	12.1	10.7
500	-400	8	8	5.63	-42.0	11.7	6.7	7.6
500	-400	7	8	7.14	-26.0	6.0	3.5	7.2
500	-425	15	8	0.37	-77.0	35.3	69.4	84.6
500	-425	15	4	0.47	-65.0	40.7	62.5	76.5
500	-425	14	8	0.57	-53.0	39.8	54.4	67.3
500	-425	14	4	0.66	-48.0	39.5	48.3	61.3
500	-425	13	8	0.76	-46.0	40.3	43.4	55.9
500	-425	13	4	0.84	-44.0	39.6	39.5	51.8
500	-425	12	8	0.97	-44.0	40.4	35.6	46.2
500	-425	12	4	1.13	-44.0	40.0	31.5	40.2
500	-425	11	8	1.34	-48.0	41.8	28.9	33.0
500	-425	10	8	2.02	-56.0	37.6	22.3	18.1
500	-425	9	8	3.45	-56.0	23.4	13.5	9.8
500	-425	8	8	5.71	-50.0	13.2	7.6	6.5
500	-425	7	8	8.42	-36.0	6.9	3.9	5.5
500	-450	15	8	0.44	-80.0	43.0	65.9	84.6
500	-450	15	4	0.52	-70.0	46.9	61.0	77.0
500	-450	14	8	0.60	-60.0	46.5	55.2	68.4
500	-450	14	4	0.68	-56.0	47.1	50.6	62.6
500	-450	13	8	0.80	-48.0	42.9	42.8	54.3
500	-450	13	4	0.90	-48.0	44.2	39.3	49.2
500	-450	12	8	1.04	-44.0	40.4	33.8	43.6
500	-450	12	4	1.16	-42.0	37.8	29.9	39.2
500	-450	11	8	1.38	-47.0	40.4	27.9	32.2
500	-450	10	8	2.04	-49.0	33.1	20.2	20.1
500	-450	9	8	3.45	-54.0	22.8	13.2	10.2
500	-450	8	8	5.56	-44.0	12.3	7.1	7.5
500	-450	7	8	7.62	-29.0	6.3	3.6	6.6
500	-500	15	8	0.95	-38.0	34.4	32.9	46.9
500	-500	15	4	1.05	-36.0	32.4	29.1	43.2
500	-500	14	8	1.18	-31.0	27.3	23.6	39.6
500	-500	14	4	1.24	-30.0	26.1	22.0	38.1
500	-500	13	8	1.35	-28.0	23.7	19.1	35.5
500	-500	13	4	1.48	-26.4	21.6	16.7	32.9
500	-500	12	8	1.60	-26.0	20.5	15.3	30.8
500	-500	12	4	1.72	-28.0	21.3	15.2	28.5
500	-500	11	8	1.93	-31.0	22.1	14.9	25.3
500	-500	10	8	2.60	-37.6	21.4	13.2	17.8
500	-500	9	8	4.08	-41.0	15.5	9.1	10.7
500	-500	8	8	6.01	-35.0	9.4	5.4	7.8

500	-500	7	8	7.62	-21.0	4.6	2.6	7.0
500	-550	15	8	5.56	-32.0	9.3	5.4	8.8
500	-550	15	4	5.41	-28.0	8.5	4.9	9.3
500	-550	14	8	5.26	-24.0	7.5	4.4	9.9
500	-550	14	4	5.48	-26.0	7.8	4.5	9.4
500	-550	13	8	5.88	-29.0	8.1	4.7	8.5
500	-550	13	4	6.25	-30.4	7.9	4.6	7.9
500	-550	12	8	6.96	-36.0	8.3	4.8	6.7
500	-550	12	4	7.84	-42.0	8.5	4.8	5.5
500	-550	11	8	9.09	-52.0	8.6	4.9	3.9
500	-550	10	8	13.33	-68.0	7.0	3.9	1.6
500	-550	9	8	20.78	-93.0	4.8	2.7	-0.1
500	-550	8	8	30.77	-120.0	2.8	1.6	-0.9
500	-550	7	8	39.02	-144.0	1.5	0.8	-1.2
500	-600	15	8	3.28	-76.0	29.4	16.4	4.6
500	-600	15	4	4.17	-64.0	21.3	12.1	6.3
500	-600	14	8	5.26	-55.0	15.4	8.8	6.4
500	-600	14	4	5.59	-52.0	13.9	8.0	6.4
500	-600	13	8	6.78	-52.0	11.5	6.6	5.3
500	-600	13	4	7.69	-54.0	10.5	6.0	4.4
500	-600	12	8	9.30	-56.0	8.9	5.0	3.5
500	-600	12	4	10.53	-58.4	8.1	4.6	2.9
500	-600	11	8	12.70	-64.0	7.1	4.0	2.0
500	-600	10	8	20.00	-84.0	5.0	2.8	0.3
500	-600	9	8	28.57	-104.0	3.4	1.9	-0.5
500	-600	8	8	39.02	-136.0	1.8	1.0	-1.1
500	-600	7	8	41.56	-152.0	1.1	0.6	-1.2

LINE	STATION	FCODE	RATIO	PHASE	ELLIPT	QUAD	TILT
625	000	15 8	0.72	-120.0	52.3	50.2	118.1
625	000	15 4	0.98	-98.0	86.8	45.2	130.9
625	000	14 8	1.41	-82.0	69.0	35.1	10.9
625	000	14 4	1.72	-76.0	54.7	29.3	11.5
625	000	13 8	2.22	-75.0	42.8	23.4	8.1
625	000	13 4	2.74	-72.0	34.2	19.1	7.3
625	000	12 8	3.51	-68.8	26.3	14.8	6.3
625	000	12 4	4.35	-72.8	21.9	12.3	4.1
625	000	11 8	5.88	-76.0	16.5	9.3	2.4
625	000	10 8	10.26	-86.0	9.7	5.5	0.4
625	000	9 8	19.51	-98.0	5.1	2.9	-0.4
625	000	8 8	33.33	-116.0	2.7	1.5	-0.8
625	000	7 8	44.44	-136.0	1.6	0.8	-0.9
625	-025	15 8	0.42	-128.0	30.8	61.9	106.1
625	-025	15 4	0.61	-108.0	55.1	57.3	105.5
625	-025	14 8	0.82	-92.0	81.7	50.6	95.0
625	-025	14 4	0.99	-84.0	89.9	45.2	49.1
625	-025	13 8	1.32	-82.4	73.6	36.9	12.7
625	-025	13 4	1.67	-80.0	58.1	30.5	9.0
625	-025	12 8	2.17	-80.0	44.9	24.3	5.7
625	-025	12 4	2.78	-82.0	35.5	19.6	3.3
625	-025	11 8	3.70	-85.0	26.9	15.0	1.5
625	-025	10 8	7.02	-100.0	14.0	7.9	-1.4
625	-025	9 8	11.25	-112.0	8.2	4.7	-1.9
625	-025	8 8	17.39	-136.0	4.0	2.2	-2.4
625	-025	7 8	19.51	-152.0	2.4	1.3	-2.6
625	-050	15 8	0.30	-124.0	24.1	70.1	100.1
625	-050	15 4	0.43	-88.0	42.5	66.9	89.0
625	-050	14 8	0.60	-79.0	57.8	58.5	80.2
625	-050	14 4	0.72	-76.0	66.1	53.4	72.1
625	-050	13 8	0.94	-72.0	72.1	45.4	51.1
625	-050	13 4	1.16	-70.0	68.0	39.1	33.5
625	-050	12 8	1.54	-70.0	56.8	31.4	18.8
625	-050	12 4	1.96	-71.0	46.6	25.7	12.1
625	-050	11 8	2.63	-70.4	35.1	19.6	8.3
625	-050	10 8	4.88	-70.4	19.2	10.9	4.1
625	-050	9 8	9.30	-70.0	10.1	5.7	2.1
625	-050	8 8	17.02	-58.0	5.0	2.8	1.8
625	-050	7 8	23.53	-46.0	3.1	1.7	1.7
625	-075	15 8	0.53	-100.0	51.6	61.7	97.2
625	-075	15 4	0.52	-84.0	51.5	62.3	85.8
625	-075	14 8	0.63	-73.0	57.3	56.6	74.3
625	-075	14 4	0.76	-69.6	63.4	50.7	63.9
625	-075	13 8	0.94	-68.0	67.1	44.6	49.7
625	-075	13 4	1.16	-70.4	68.3	39.0	32.8
625	-075	12 8	1.55	-75.0	59.7	31.9	14.9
625	-075	12 4	1.92	-77.0	49.8	26.8	8.9
625	-075	11 8	2.70	-82.0	36.5	20.1	3.4
625	-075	10 8	4.88	-92.0	20.5	11.5	-0.4
625	-075	9 8	8.70	-110.0	10.8	6.1	-2.3
625	-075	8 8	13.79	-134.0	5.2	2.9	-2.9
625	-075	7 8	16.67	-152.0	2.8	1.6	-3.0
625	-100	15 8	0.28	-104.0	27.0	73.9	94.2
625	-100	15 4	0.59	-80.0	57.2	59.0	81.3
625	-100	14 8	0.64	-72.0	57.8	55.8	72.8
625	-100	14 4	0.75	-68.0	60.9	51.2	64.3
625	-100	13 8	0.89	-66.0	64.0	45.5	52.6
625	-100	13 4	1.09	-66.4	64.9	40.1	39.1
625	-100	12 8	1.41	-72.0	62.4	34.0	20.8
625	-100	12 4	1.77	-76.8	53.7	28.8	10.4
625	-100	11 8	2.47	-84.0	40.2	21.9	2.9
625	-100	10 8	4.26	-94.0	23.4	13.1	-1.0
625	-100	9 8	7.92	-112.0	11.7	6.6	-2.7
625	-100	8 8	12.12	-134.0	5.9	3.3	-3.3

625	-100	7	8	14.29	-152.0	3.3	1.8	-3.5
625	-125	15	8	0.18	-112.0	16.6	79.0	94.0
625	-125	15	4	0.36	-98.0	35.5	70.0	93.3
625	-125	14	8	0.52	-78.0	50.1	62.0	81.7
625	-125	14	4	0.64	-72.0	57.8	55.8	72.8
625	-125	13	8	0.76	-68.0	61.9	50.4	62.9
625	-125	13	4	0.93	-68.0	66.9	45.0	50.9
625	-125	12	8	1.20	-72.0	69.2	38.4	29.8
625	-125	12	4	1.50	-74.0	60.6	32.5	16.7
625	-125	11	8	2.02	-80.0	48.3	25.9	6.4
625	-125	10	8	3.77	-88.0	26.5	14.8	0.6
625	-125	9	8	7.21	-102.0	13.6	7.7	-1.7
625	-125	8	8	12.50	-118.0	7.1	4.0	-2.2
625	-125	7	8	16.67	-138.0	4.0	2.2	-2.6
625	-150	15	8	0.07	-152.0	3.3	81.5	93.5
625	-150	15	4	0.25	-98.0	24.7	75.8	92.1
625	-150	14	8	0.46	-80.0	44.9	64.9	84.3
625	-150	14	4	0.55	-70.0	49.3	59.6	75.8
625	-150	13	8	0.67	-66.0	54.7	53.9	67.9
625	-150	13	4	0.77	-66.0	60.1	49.8	61.5
625	-150	12	8	1.00	-68.0	67.5	42.8	45.0
625	-150	12	4	1.24	-72.0	68.1	37.5	27.7
625	-150	11	8	1.67	-78.0	57.3	30.4	10.6
625	-150	10	8	3.23	-86.4	30.9	17.1	1.2
625	-150	9	8	6.20	-92.0	16.1	9.1	-0.3
625	-150	8	8	11.59	-104.0	8.4	4.7	-1.2
625	-150	7	8	20.00	-124.0	4.1	2.3	-1.6
625	-175	15	8	0.18	-120.0	15.5	78.2	95.3
625	-175	15	4	0.36	-92.0	36.0	70.1	90.8
625	-175	14	8	0.50	-70.4	45.9	61.8	77.8
625	-175	14	4	0.58	-64.0	48.3	56.9	71.0
625	-175	13	8	0.69	-58.0	49.1	51.0	63.1
625	-175	13	4	0.79	-60.0	54.6	47.8	58.0
625	-175	12	8	0.95	-62.0	59.9	42.9	48.1
625	-175	12	4	1.14	-66.0	63.7	38.8	36.3
625	-175	11	8	1.48	-73.0	60.7	32.8	18.0
625	-175	10	8	2.86	-82.4	34.6	19.1	3.0
625	-175	9	8	3.39	-94.0	29.4	16.3	-1.3
625	-175	8	8	9.52	-108.0	10.0	5.7	-1.9
625	-175	7	8	14.81	-128.0	5.3	3.0	-2.4
625	-200	15	8	0.25	-116.0	22.6	74.1	96.7
625	-200	15	4	0.41	-98.0	40.0	67.7	93.8
625	-200	14	8	0.54	-72.0	49.5	60.4	77.4
625	-200	14	4	0.61	-60.8	47.3	55.2	68.5
625	-200	13	8	0.69	-58.0	49.5	50.6	62.5
625	-200	13	4	0.80	-54.4	49.3	45.4	55.6
625	-200	12	8	0.94	-58.0	55.2	42.2	48.6
625	-200	12	4	1.09	-60.0	57.3	38.3	40.0
625	-200	11	8	1.38	-67.0	58.9	33.7	25.0
625	-200	10	8	2.47	-74.4	38.5	21.3	7.3
625	-200	9	8	4.76	-85.0	20.9	11.8	1.1
625	-200	8	8	9.30	-96.0	10.7	6.1	-0.7
625	-200	7	8	17.78	-106.0	5.4	3.0	-0.9
625	-225	15	8	0.32	-112.0	29.2	70.9	97.5
625	-225	15	4	0.47	-84.0	46.1	64.9	86.5
625	-225	14	8	0.61	-64.0	49.6	56.0	70.0
625	-225	14	4	0.69	-56.0	47.3	50.4	62.4
625	-225	13	8	0.81	-53.0	48.1	44.5	54.7
625	-225	13	4	0.93	-52.0	48.5	40.4	48.6
625	-225	12	8	1.04	-52.8	49.6	37.3	43.1
625	-225	12	4	1.22	-58.0	53.5	34.8	34.7
625	-225	11	8	1.49	-62.0	51.8	30.5	24.4
625	-225	10	8	2.53	-76.0	37.9	20.9	6.4
625	-225	9	8	4.55	-92.0	22.0	12.4	-0.5
625	-225	8	8	8.33	-112.0	11.1	6.3	-2.6
625	-225	7	8	12.70	-132.0	5.8	3.3	-3.0

625	-250	15	8	0.20	-112.0	18.4	77.8	94.4
625	-250	15	4	0.38	-90.0	38.0	69.1	90.0
625	-250	14	8	0.53	-72.0	48.7	60.8	77.8
625	-250	14	4	0.62	-60.0	47.6	54.4	67.4
625	-250	13	8	0.73	-50.4	43.7	46.5	58.3
625	-250	13	4	0.81	-47.0	42.0	42.2	53.9
625	-250	12	8	0.94	-44.0	40.3	36.3	47.2
625	-250	12	4	1.05	-44.0	40.3	33.5	43.2
625	-250	11	8	1.27	-46.0	40.8	29.6	35.5
625	-250	10	8	7.62	-44.0	9.0	5.2	5.4
625	-250	9	8	11.11	-37.0	5.4	3.1	4.1
625	-250	8	8	14.55	-24.0	2.8	1.6	3.6
625	-250	7	8	15.69	-14.0	1.5	0.8	3.5
625	-275	15	8	0.41	-100.0	40.1	67.3	94.9
625	-275	15	4	0.54	-78.0	51.5	61.3	81.3
625	-275	14	8	0.71	-68.0	59.0	52.5	66.5
625	-275	14	4	0.82	-60.8	56.6	46.6	55.8
625	-275	13	8	0.99	-54.4	51.4	39.5	45.7
625	-275	13	4	1.11	-55.0	51.6	36.5	40.1
625	-275	12	8	1.30	-54.4	48.6	32.0	32.8
625	-275	12	4	1.50	-58.4	48.5	29.5	25.7
625	-275	11	8	1.80	-62.4	45.3	26.1	18.3
625	-275	10	8	3.03	-77.0	32.0	17.8	4.7
625	-275	9	8	5.00	-96.0	19.9	11.2	-1.2
625	-275	8	8	8.89	-114.0	10.3	5.8	-2.6
625	-275	7	8	12.50	-136.0	5.5	3.1	-3.3
625	-300	15	8	0.13	-128.0	10.2	80.6	94.6
625	-300	15	4	0.39	-104.0	37.5	68.1	96.3
625	-300	14	8	0.55	-82.0	53.5	61.1	83.9
625	-300	14	4	0.87	-72.0	70.3	47.7	57.6
625	-300	13	8	0.81	-60.8	56.2	47.1	56.8
625	-300	13	4	0.93	-58.0	55.1	42.5	49.2
625	-300	12	8	1.08	-54.4	51.1	36.9	41.2
625	-300	12	4	1.28	-56.0	50.4	32.8	32.9
625	-300	11	8	1.54	-58.0	47.5	28.8	25.0
625	-300	10	8	2.56	-60.0	32.4	18.6	12.4
625	-300	9	8	4.35	-101.0	22.5	12.7	-2.6
625	-300	8	8	7.84	-56.8	10.6	6.0	4.0
625	-300	7	8	12.12	-42.0	5.5	3.1	3.5
625	-325	15	8	0.22	-96.0	21.9	77.5	91.4
625	-325	15	4	0.46	-104.0	44.0	64.6	97.9
625	-325	14	8	0.61	-80.0	59.0	58.2	80.7
625	-325	14	4	0.71	-71.0	61.5	53.0	68.5
625	-325	13	8	0.88	-62.0	59.2	44.9	52.3
625	-325	13	4	1.02	-60.8	58.6	40.5	43.8
625	-325	12	8	1.27	-60.0	54.6	34.2	32.0
625	-325	12	4	1.49	-60.0	50.1	30.1	25.3
625	-325	11	8	1.90	-64.0	44.2	25.2	16.2
625	-325	10	8	3.08	-70.0	30.1	16.9	7.0
625	-325	9	8	5.71	-80.0	17.2	9.7	1.8
625	-325	8	8	10.96	-88.0	9.1	5.2	0.2
625	-325	7	8	22.22	-92.0	4.5	2.5	-0.1
625	-350	15	8	0.14	-130.0	10.6	79.6	95.2
625	-350	15	4	0.44	-104.0	41.6	65.8	97.3
625	-350	14	8	0.63	-82.0	62.1	57.3	81.8
625	-350	14	4	0.75	-72.0	64.5	51.9	67.0
625	-350	13	8	0.90	-64.0	61.8	44.8	51.4
625	-350	13	4	1.07	-61.6	59.3	39.4	40.9
625	-350	12	8	1.31	-62.0	55.9	34.0	30.0
625	-350	12	4	1.55	-61.0	49.7	29.4	23.5
625	-350	11	8	1.98	-64.0	42.8	24.4	15.4
625	-350	10	8	3.39	-70.4	27.5	15.5	6.1
625	-350	9	8	6.20	-76.0	15.6	8.8	2.3
625	-350	8	8	11.76	-84.0	8.5	4.8	0.5
625	-350	7	8	25.00	-84.0	4.0	2.2	0.2
625	-375	15	8	0.18	-112.0	16.6	79.0	94.0

625	-375	15	4	0.54	-96.0	53.5	61.4	94.5
625	-375	14	8	0.69	-79.0	65.7	54.8	76.7
625	-375	14	4	0.82	-72.0	68.5	49.2	61.4
625	-375	13	8	1.00	-64.0	62.5	41.9	45.0
625	-375	13	4	1.18	-62.4	58.9	37.0	35.3
625	-375	12	8	1.46	-63.0	53.4	31.3	24.8
625	-375	12	4	1.77	-64.8	47.5	27.0	17.6
625	-375	11	8	2.25	-68.0	39.9	22.4	11.3
625	-375	10	8	3.77	-78.0	25.8	14.5	3.4
625	-375	9	8	6.90	-88.0	14.5	8.2	0.3
625	-375	8	8	12.31	-104.0	7.9	4.5	-1.1
625	-375	7	8	21.62	-124.0	3.8	2.1	-1.5
625	-400	15	8	0.28	-136.0	18.7	68.0	101.8
625	-400	15	4	0.54	-88.0	53.4	61.8	88.5
625	-400	14	8	0.75	-76.0	68.3	52.2	70.2
625	-400	14	4	0.83	-66.0	62.3	47.7	57.4
625	-400	13	8	1.04	-63.0	61.2	40.5	42.4
625	-400	13	4	1.23	-62.0	57.6	35.7	33.2
625	-400	12	8	1.50	-62.4	51.8	30.5	23.9
625	-400	12	4	1.85	-64.0	45.3	25.8	16.9
625	-400	11	8	2.41	-68.8	37.7	21.1	10.0
625	-400	10	8	3.85	-78.0	25.4	14.2	3.3
625	-400	9	8	6.61	-94.0	15.1	8.5	-0.6
625	-400	8	8	11.94	-112.0	7.8	4.4	-1.8
625	-400	7	8	16.67	-136.0	4.2	2.3	-2.5
625	-425	15	8	0.31	-120.0	26.2	70.3	99.5
625	-425	15	4	0.19	-92.0	19.0	79.2	90.4
625	-425	14	8	0.70	-72.0	61.7	53.6	69.8
625	-425	14	4	0.81	-65.0	60.4	48.3	58.7
625	-425	13	8	0.97	-62.0	60.0	42.3	46.9
625	-425	13	4	1.16	-60.0	56.6	36.8	36.9
625	-425	12	8	1.41	-61.6	53.3	31.9	26.9
625	-425	12	4	2.02	-62.0	41.0	23.6	15.8
625	-425	11	8	2.15	-66.0	40.7	23.0	12.9
625	-425	10	8	3.64	-72.0	26.0	14.6	5.2
625	-425	9	8	6.40	-86.0	15.6	8.8	0.6
625	-425	8	8	12.31	-98.0	8.0	4.5	-0.7
625	-425	7	8	22.22	-156.0	1.8	1.0	-2.4
625	-450	15	8	0.28	-104.0	27.5	73.6	94.3
625	-450	15	4	0.53	-88.0	52.9	62.0	88.5
625	-450	14	8	0.71	-72.0	62.7	53.0	68.9
625	-450	14	4	0.82	-64.0	60.0	47.4	56.9
625	-450	13	8	1.02	-58.0	55.4	39.7	43.9
625	-450	13	4	1.21	-57.0	52.6	34.8	35.5
625	-450	12	8	1.72	-56.0	42.5	25.6	22.2
625	-450	12	4	1.74	-58.0	43.6	25.9	21.2
625	-450	11	8	2.15	-62.0	38.8	22.3	14.6
625	-450	10	8	3.64	-67.0	25.0	14.2	6.5
625	-450	9	8	6.50	-51.0	11.8	6.8	5.6
625	-450	8	8	12.12	-74.4	7.9	4.5	1.3
625	-450	7	8	5.67	-71.0	16.6	9.4	3.4
625	-500	15	8	0.45	-112.0	40.3	64.1	101.5
625	-500	15	4	0.54	-92.0	53.9	61.6	91.5
625	-500	14	8	0.69	-77.0	64.1	54.8	74.9
625	-500	14	4	0.80	-70.0	65.5	49.5	61.7
625	-500	13	8	0.98	-64.0	62.5	42.5	46.3
625	-500	13	4	1.14	-62.0	59.1	37.8	37.4
625	-500	12	8	1.43	-62.0	53.2	31.7	26.1
625	-500	12	4	1.68	-62.0	47.6	27.7	20.4
625	-500	11	8	2.22	-64.0	38.7	22.0	13.2
625	-500	10	8	3.64	-70.0	25.6	14.4	5.8
625	-500	9	8	6.78	-70.0	13.8	7.8	2.9
625	-500	8	8	12.90	-80.8	7.7	4.3	0.7
625	-500	7	8	25.40	-82.0	3.9	2.2	0.3
625	-550	15	8	0.64	-98.0	62.6	57.1	98.4
625	-550	15	4	0.76	-84.0	75.0	52.4	79.5

625	-550	14	8	0.94	-69.6	69.1	45.0	50.5
625	-550	14	4	1.08	-62.0	59.7	39.2	40.3
625	-550	13	8	1.29	-60.0	54.3	33.8	31.4
625	-550	13	4	1.51	-59.0	48.8	29.5	25.2
625	-550	12	8	1.85	-58.0	41.6	24.6	19.5
625	-550	12	4	2.22	-60.0	36.8	21.2	14.7
625	-550	11	8	2.78	-61.0	30.5	17.4	10.9
625	-550	10	8	4.88	-68.0	18.9	10.7	4.6
625	-550	9	8	8.60	-68.0	10.8	6.1	2.5
625	-550	8	8	16.67	-76.0	5.8	3.3	0.8
625	-550	7	8	30.48	-64.0	2.9	1.6	0.8
625	-600	15	8	0.66	-104.0	61.5	55.7	104.8
625	-600	15	4	0.85	-86.0	83.8	49.5	78.4
625	-600	14	8	1.08	-72.0	72.0	41.3	37.9
625	-600	14	4	1.28	-68.0	62.6	35.8	28.1
625	-600	13	8	1.54	-62.0	50.7	29.8	23.3
625	-600	13	4	1.82	-62.0	44.8	25.9	18.3
625	-600	12	8	2.25	-60.0	36.4	21.0	14.5
625	-600	12	4	2.74	-62.0	31.2	17.8	10.8
625	-600	11	8	3.45	-62.0	25.1	14.3	8.3
625	-600	10	8	5.80	-68.0	15.9	9.0	3.8
625	-600	9	8	10.13	-70.0	9.3	5.2	2.0
625	-600	8	8	19.51	-70.4	4.8	2.7	1.0
625	-600	7	8	39.02	-60.0	2.2	1.2	0.7

LINE	STATION	FCODE	RATIO	PHASE	ELLIPT	QUAD	TILT
875	000	15 8	0.65	-74.0	59.4	55.9	74.1
875	000	15 4	0.81	-64.0	59.5	47.9	57.9
875	000	14 8	0.95	-58.0	55.3	41.7	47.8
875	000	14 4	1.11	-52.0	48.4	35.4	40.4
875	000	13 8	1.26	-52.0	46.8	32.0	34.7
875	000	13 4	1.43	-50.0	42.5	28.1	30.2
875	000	12 8	1.70	-54.0	41.5	25.5	23.4
875	000	12 4	1.96	-57.6	39.5	23.2	18.2
875	000	11 8	2.47	-64.0	35.1	20.0	11.5
875	000	10 8	4.26	-72.0	22.2	12.5	4.4
875	000	9 8	7.92	-87.0	12.6	7.1	0.4
875	000	8 8	15.38	-96.0	6.5	3.6	-0.4
875	000	7 8	26.67	-116.0	3.4	1.9	-0.9
875	-025	15 8	0.72	-70.0	61.3	52.5	67.2
875	-025	15 4	0.81	-66.0	61.5	48.6	59.1
875	-025	14 8	1.00	-60.0	57.7	40.8	45.0
875	-025	14 4	1.16	-61.0	57.7	37.1	36.6
875	-025	13 8	1.39	-59.0	51.4	31.6	28.5
875	-025	13 4	1.60	-60.0	47.8	28.4	22.9
875	-025	12 8	1.98	-64.0	42.8	24.4	15.4
875	-025	12 4	2.35	-70.4	39.1	21.8	9.6
875	-025	11 8	3.03	-78.4	32.2	17.9	4.2
875	-025	10 8	5.13	-96.0	19.4	10.9	-1.2
875	-025	9 8	7.62	-120.0	11.3	6.4	-3.8
875	-025	8 8	10.39	-144.0	5.6	3.2	-4.5
875	-025	7 8	10.96	-156.0	3.7	2.1	-4.8
875	-050	15 8	0.23	-52.0	18.1	73.3	81.5
875	-050	15 4	0.44	-26.0	16.5	45.2	68.0
875	-050	14 8	0.77	-15.0	12.7	18.5	52.7
875	-050	14 4	1.22	-13.0	11.2	10.4	39.2
875	-050	13 8	1.98	-18.0	12.6	8.8	26.1
875	-050	13 4	2.78	-28.0	15.3	9.5	18.1
875	-050	12 8	4.00	-46.0	17.4	10.1	10.2
875	-050	12 4	4.88	-59.6	17.5	10.0	6.1
875	-050	11 8	6.61	-78.4	14.8	8.4	1.8
875	-050	10 8	9.09	-114.4	10.0	5.7	-2.6
875	-050	9 8	9.88	-144.0	5.9	3.4	-4.7
875	-050	8 8	9.88	-160.0	3.4	1.9	-5.4
875	-050	7 8	10.26	-164.0	2.7	1.5	-5.4
875	-075	15 8	0.22	-56.0	18.0	75.1	82.8
875	-075	15 4	0.36	-36.0	19.4	58.5	73.1
875	-075	14 8	0.53	-15.0	10.8	26.0	62.5
875	-075	14 4	0.76	6.0	-5.1	7.7	52.6
875	-075	13 8	1.36	28.0	-23.7	19.0	35.2
875	-075	13 4	2.44	56.0	-32.1	18.7	14.4
875	-075	12 8	4.17	106.0	-23.0	12.9	-4.0
875	-075	12 4	3.28	-200.0	-9.6	5.9	-16.1
875	-075	11 8	2.35	-180.0	-0.0	6.1	-23.0
875	-075	10 8	1.89	-174.0	4.3	3.1	-27.8
875	-075	9 8	1.75	-174.0	4.5	3.4	-29.6
875	-075	8 8	1.72	-176.0	3.0	2.3	-30.1
875	-075	7 8	1.71	-172.0	6.1	4.6	-30.2
875	-100	15 8	0.50	-88.0	49.9	63.4	88.7
875	-100	15 4	0.70	-74.0	63.2	53.9	71.4
875	-100	14 8	0.86	-64.0	60.9	46.2	54.5
875	-100	14 4	1.01	-58.0	55.4	40.0	44.5
875	-100	13 8	1.21	-54.0	49.4	33.7	35.9
875	-100	13 4	1.39	-54.0	46.7	30.2	30.2
875	-100	12 8	1.68	-56.0	43.2	26.2	22.9
875	-100	12 4	1.98	-57.0	38.8	22.9	18.2

875	-100	11	8	2.53	-60.0	32.8	18.8	12.5
875	-100	10	8	4.35	-62.0	20.1	11.4	6.4
875	-100	9	8	7.69	-60.8	11.3	6.4	3.7
875	-100	8	8	13.56	-50.0	5.6	3.2	2.7
875	-100	7	8	19.05	-34.0	2.9	1.6	2.5
875	-125	15	8	0.31	-80.0	30.4	72.5	86.6
875	-125	15	4	0.45	-72.0	41.8	64.6	80.4
875	-125	14	8	0.64	-66.0	53.2	54.9	69.3
875	-125	14	4	0.77	-60.0	54.1	48.3	58.9
875	-125	13	8	0.94	-56.8	53.9	41.5	48.0
875	-125	13	4	1.10	-54.4	51.0	36.4	40.4
875	-125	12	8	1.33	-54.0	47.7	31.2	31.8
875	-125	12	4	1.56	-54.0	43.8	27.3	25.9
875	-125	11	8	1.96	-56.0	38.5	22.9	18.8
875	-125	10	8	3.28	-60.0	25.8	14.7	9.3
875	-125	9	8	5.71	-56.0	14.4	8.2	5.7
875	-125	8	8	9.52	-44.0	7.3	4.1	4.3
875	-125	7	8	11.76	-24.8	3.5	2.0	4.4
875	-150	15	8	0.24	-100.0	23.6	76.3	92.5
875	-150	15	4	0.36	-90.4	36.0	70.2	90.2
875	-150	14	8	0.50	-78.0	48.7	62.6	82.1
875	-150	14	4	0.64	-72.0	57.8	55.8	72.8
875	-150	13	8	0.82	-68.0	64.2	48.5	59.0
875	-150	13	4	0.99	-66.0	64.9	42.7	45.7
875	-150	12	8	1.27	-64.0	58.7	35.2	30.4
875	-150	12	4	1.55	-68.8	55.6	31.0	19.3
875	-150	11	8	1.96	-74.4	47.9	26.1	10.2
875	-150	10	8	3.45	-84.0	28.8	16.0	1.9
875	-150	9	8	6.35	-98.0	15.6	8.8	-1.3
875	-150	8	8	10.96	-114.0	8.3	4.7	-2.1
875	-150	7	8	15.38	-138.0	4.3	2.4	-2.8
875	-175	15	8	0.18	-104.0	17.4	79.4	92.6
875	-175	15	4	0.26	-82.0	26.2	75.0	87.7
875	-175	14	8	0.34	-72.0	31.9	70.3	83.3
875	-175	14	4	0.41	-66.4	36.8	65.6	79.1
875	-175	13	8	0.50	-60.0	40.3	60.0	73.2
875	-175	13	4	0.61	-59.6	46.7	54.7	67.7
875	-175	12	8	0.76	-58.4	52.2	48.2	59.0
875	-175	12	4	0.90	-58.0	54.9	43.2	50.6
875	-175	11	8	1.16	-58.0	54.4	36.2	37.3
875	-175	10	8	1.92	-58.0	40.4	23.7	18.5
875	-175	9	8	3.33	-48.0	21.4	12.5	11.9
875	-175	8	8	4.76	-36.8	12.2	7.1	9.7
875	-175	7	8	5.63	-21.0	6.2	3.6	9.4
875	-200	15	8	0.32	-76.0	30.8	71.7	85.1
875	-200	15	4	0.41	-64.8	35.4	65.8	78.8
875	-200	14	8	0.47	-56.0	36.4	60.1	72.8
875	-200	14	4	0.52	-48.0	33.9	55.0	68.2
875	-200	13	8	0.62	-48.0	38.1	50.1	63.3
875	-200	13	4	0.68	-48.0	40.1	47.5	60.3
875	-200	12	8	0.81	-50.0	45.2	43.2	53.9
875	-200	12	4	1.06	-52.0	48.6	36.5	42.1
875	-200	11	8	1.18	-58.0	54.1	35.7	36.5
875	-200	10	8	1.92	-66.0	44.9	25.4	15.1
875	-200	9	8	3.57	-74.0	26.7	15.0	4.8
875	-200	8	8	7.02	-74.0	13.7	7.7	2.3
875	-200	7	8	13.56	-66.0	6.7	3.8	1.7
875	-225	15	8	0.56	-52.0	38.8	54.3	67.2
875	-225	15	4	0.70	-46.0	39.0	45.5	58.6
875	-225	14	8	0.79	-42.0	36.9	40.4	54.1
875	-225	14	4	0.85	-38.0	33.8	36.0	51.1
875	-225	13	8	0.94	-39.6	35.9	34.1	47.3
875	-225	13	4	1.03	-40.0	36.4	32.0	44.0
875	-225	12	8	1.14	-40.0	36.0	29.3	40.0
875	-225	12	4	1.31	-49.0	43.2	30.0	33.8
875	-225	11	8	1.50	-60.0	49.9	29.9	25.0

875	-225	10	8	2.15	-80.0	45.4	24.6	5.8
875	-225	9	8	3.39	-106.0	28.2	15.8	-5.0
875	-225	8	8	4.55	-136.0	14.9	8.6	-9.2
875	-225	7	8	5.26	-160.0	6.3	3.7	-10.2
875	-250	15	8	0.75	-58.4	52.1	48.4	59.3
875	-250	15	4	0.84	-46.0	41.5	40.5	52.1
875	-250	14	8	0.98	-40.8	37.2	33.6	45.8
875	-250	14	4	1.08	-37.0	33.3	29.1	42.2
875	-250	13	8	1.16	-32.8	29.1	25.1	40.1
875	-250	13	4	1.24	-33.0	28.8	23.6	37.7
875	-250	12	8	1.35	-34.4	29.3	22.6	34.8
875	-250	12	4	1.46	-40.0	33.3	23.7	31.6
875	-250	11	8	1.70	-44.8	34.5	22.5	26.0
875	-250	10	8	2.53	-58.4	32.1	18.5	13.1
875	-250	9	8	4.17	-72.0	22.7	12.8	4.5
875	-250	8	8	8.42	-84.0	11.8	6.7	0.7
875	-250	7	8	16.67	-92.0	6.0	3.4	-0.1
875	-275	15	8	0.97	-76.0	78.0	45.0	48.6
875	-275	15	4	1.59	-68.0	54.0	30.2	19.0
875	-275	14	8	2.04	-56.8	37.8	22.2	17.6
875	-275	14	4	2.35	-51.0	30.6	18.2	16.6
875	-275	13	8	2.67	-44.0	24.2	14.5	16.1
875	-275	13	4	2.94	-46.0	23.1	13.7	14.1
875	-275	12	8	3.28	-48.0	21.7	12.7	12.1
875	-275	12	4	3.51	-52.0	21.8	12.6	10.5
875	-275	11	8	4.17	-61.0	20.7	11.8	6.9
875	-275	10	8	5.56	-88.0	18.0	10.1	0.4
875	-275	9	8	7.41	-116.0	12.1	6.9	-3.4
875	-275	8	8	9.09	-140.0	7.0	4.0	-4.8
875	-275	7	8	9.41	-154.0	4.6	2.6	-5.5
875	-300	15	8	0.27	-96.0	26.8	74.8	91.7
875	-300	15	4	0.52	-94.0	52.3	62.2	92.9
875	-300	14	8	0.93	-84.0	87.7	47.0	63.4
875	-300	14	4	1.21	-77.0	74.1	38.7	24.7
875	-300	13	8	1.61	-70.0	54.7	30.2	17.3
875	-300	13	4	1.92	-66.4	45.2	25.4	14.9
875	-300	12	8	2.35	-68.0	38.3	21.5	10.6
875	-300	12	4	2.74	-70.4	33.8	18.9	7.9
875	-300	11	8	3.39	-74.4	28.2	15.8	4.9
875	-300	10	8	5.00	-96.0	19.9	11.2	-1.2
875	-300	9	8	7.27	-122.0	11.6	6.6	-4.2
875	-300	8	8	9.09	-144.0	6.4	3.6	-5.1
875	-300	7	8	9.52	-158.0	3.9	2.2	-5.6
875	-325	15	8	0.14	-136.0	9.6	78.6	95.8
875	-325	15	4	0.24	-136.0	16.2	70.9	100.1
875	-325	14	8	0.37	-112.0	33.6	68.2	98.9
875	-325	14	4	0.47	-98.0	45.8	64.8	94.7
875	-325	13	8	0.61	-92.0	60.4	58.8	91.9
875	-325	13	4	0.76	-84.0	75.0	52.4	79.5
875	-325	12	8	0.99	-80.0	83.9	44.9	47.5
875	-325	12	4	1.22	-78.0	74.8	38.7	23.0
875	-325	11	8	1.59	-79.0	60.5	31.7	10.9
875	-325	10	8	2.86	-84.0	34.8	19.1	2.4
875	-325	9	8	5.26	-96.0	18.9	10.7	-1.2
875	-325	8	8	9.76	-96.0	10.2	5.8	-0.6
875	-325	7	8	14.29	-130.0	5.3	3.0	-2.6
875	-350	15	8	0.08	-116.0	7.2	84.9	92.0
875	-350	15	4	0.28	-104.0	27.0	73.9	94.2
875	-350	14	8	0.44	-80.0	43.0	65.9	84.6
875	-350	14	4	0.52	-70.0	46.9	61.0	77.0
875	-350	13	8	0.63	-66.4	52.6	55.7	70.3
875	-350	13	4	0.77	-64.0	58.1	49.4	60.5
875	-350	12	8	0.96	-64.0	62.4	42.9	47.3
875	-350	12	4	1.16	-64.0	61.0	37.8	35.8
875	-350	11	8	1.45	-69.0	58.7	32.7	21.7
875	-350	10	8	2.50	-77.0	38.6	21.2	6.0

875	-350	9	8	4.76	-86.0	20.9	11.8	0.9
875	-350	8	8	9.19	-98.0	10.8	6.1	-0.9
875	-350	7	8	16.33	-114.0	5.6	3.2	-1.4
875	-375	15	8	0.07	2.0	-0.2	26.4	86.0
875	-375	15	4	0.29	-104.0	28.5	73.0	94.4
875	-375	14	8	0.47	-76.0	44.4	64.3	82.0
875	-375	14	4	0.60	-52.0	40.5	52.7	65.5
875	-375	13	8	0.74	-61.0	53.8	49.9	61.4
875	-375	13	4	0.87	-56.0	52.2	43.7	52.3
875	-375	12	8	1.06	-62.0	59.9	39.8	41.6
875	-375	12	4	1.26	-64.0	59.0	35.5	31.1
875	-375	11	8	1.60	-68.8	54.2	30.2	18.3
875	-375	10	8	2.74	-80.0	35.8	19.7	4.2
875	-375	9	8	4.88	-96.0	20.4	11.5	-1.3
875	-375	8	8	8.70	-120.0	9.9	5.6	-3.3
875	-375	7	8	11.43	-136.0	6.1	3.4	-3.6
875	-400	15	8	0.09	-64.0	8.1	84.2	87.7
875	-400	15	4	0.16	-114.0	14.6	80.0	93.8
875	-400	14	8	0.40	-80.0	39.2	67.8	85.3
875	-400	14	4	0.51	-70.0	46.1	61.5	77.4
875	-400	13	8	0.64	-60.0	48.9	53.3	66.1
875	-400	13	4	0.75	-60.0	53.4	49.1	60.1
875	-400	12	8	0.91	-60.0	57.2	43.5	50.3
875	-400	12	4	1.09	-60.8	58.3	38.7	40.1
875	-400	11	8	1.34	-62.0	55.2	33.3	28.8
875	-400	10	8	2.25	-68.0	39.9	22.4	11.3
875	-400	9	8	4.17	-70.0	22.4	12.7	4.9
875	-400	8	8	8.08	-66.0	11.3	6.4	2.9
875	-400	7	8	14.04	-56.0	5.9	3.3	2.3

LINE	STATION	FCODE	RATIO	PHASE	ELLIPT	QUAD	TILT
1125	-525	15 8	0.06	-40.0	3.8	84.6	87.4
1125	-525	15 4	0.16	-88.0	16.0	80.9	89.7
1125	-525	14 8	0.41	-88.0	41.0	67.6	89.0
1125	-525	14 4	0.57	-71.0	51.4	58.9	75.6
1125	-525	13 8	0.69	-62.4	53.4	51.8	64.4
1125	-525	13 4	0.82	-59.0	54.5	46.2	55.6
1125	-525	12 8	0.97	-58.0	55.4	41.1	46.6
1125	-525	12 4	1.14	-60.0	56.8	37.3	37.8
1125	-525	11 8	1.44	-62.0	53.0	31.5	25.8
1125	-525	10 8	2.41	-68.0	37.4	21.0	10.3
1125	-525	9 8	4.44	-70.0	21.0	11.9	4.6
1125	-525	8 8	8.51	-76.0	11.4	6.5	1.6
1125	-525	7 8	16.33	-68.0	5.7	3.2	1.3
1125	-500	15 8	0.08	-56.0	6.6	84.4	87.4
1125	-500	15 4	0.19	-98.0	18.3	79.4	91.5
1125	-500	14 8	0.45	-81.6	44.3	65.5	85.3
1125	-500	14 4	0.58	-70.0	52.1	58.0	74.3
1125	-500	13 8	0.73	-62.0	54.4	50.6	62.4
1125	-500	13 4	0.82	-62.0	57.7	47.1	56.5
1125	-500	12 8	1.02	-60.0	57.7	40.3	43.9
1125	-500	12 4	1.19	-62.4	58.7	36.6	34.7
1125	-500	11 8	1.50	-68.0	56.3	31.6	20.9
1125	-500	10 8	2.53	-76.0	37.9	20.9	6.4
1125	-500	9 8	4.76	-90.0	21.0	11.8	0.0
1125	-500	8 8	8.51	-106.0	11.3	6.4	-1.9
1125	-500	7 8	13.56	-124.0	6.1	3.4	-2.4
1125	-475	15 8	0.10	-44.0	6.9	81.8	85.9
1125	-475	15 4	0.21	-86.0	20.9	78.1	89.1
1125	-475	14 8	0.41	-80.0	39.7	67.6	85.2
1125	-475	14 4	0.54	-70.4	48.3	60.4	76.7
1125	-475	13 8	0.67	-62.4	52.1	52.9	65.8
1125	-475	13 4	0.80	-58.0	52.8	46.8	56.8
1125	-475	12 8	0.96	-62.0	60.0	42.4	47.2
1125	-475	12 4	1.16	-63.0	59.8	37.4	35.8
1125	-475	11 8	1.50	-64.0	53.1	30.8	23.1
1125	-475	10 8	2.53	-75.0	37.7	20.8	6.8
1125	-475	9 8	4.76	-84.0	20.9	11.7	1.3
1125	-475	8 8	8.89	-96.0	11.2	6.3	-0.7
1125	-475	7 8	16.33	-108.0	5.8	3.3	-1.1
1125	-450	15 8	0.12	-56.0	9.9	81.7	86.1
1125	-450	15 4	0.11	-98.0	10.9	83.6	90.9
1125	-450	14 8	0.33	-90.0	33.0	71.7	90.0
1125	-450	14 4	0.45	-72.0	41.8	64.6	80.4
1125	-450	13 8	0.58	-65.6	49.4	57.2	71.8
1125	-450	13 4	0.80	-64.0	59.0	48.5	58.9
1125	-450	12 8	0.98	-61.0	58.9	41.7	46.2
1125	-450	12 4	1.18	-62.4	58.9	37.0	35.3
1125	-450	11 8	1.50	-64.0	53.1	30.8	23.1
1125	-450	10 8	2.53	-70.0	36.3	20.3	8.9
1125	-450	9 8	4.55	-74.0	21.1	11.9	3.6
1125	-450	8 8	5.20	-88.0	19.2	10.8	0.4
1125	-450	7 8	18.18	-76.0	5.3	3.0	0.8
1125	-425	15 8	0.06	-4.0	0.4	49.3	86.6
1125	-425	15 4	0.10	-116.0	9.0	83.6	92.5
1125	-425	14 8	0.37	-84.0	36.7	69.5	87.4
1125	-425	14 4	0.56	-72.0	51.6	59.2	76.4
1125	-425	13 8	0.70	-67.0	57.9	52.5	66.2
1125	-425	13 4	0.81	-59.6	54.8	46.9	56.7
1125	-425	12 8	1.04	-60.8	58.6	39.9	42.6
1125	-425	12 4	1.24	-60.8	56.0	35.1	32.9

1125	-425	11	8	1.60	-62.0	49.3	28.8	22.0
1125	-425	10	8	2.50	-71.0	37.1	20.7	8.6
1125	-425	9	8	4.55	-80.0	21.6	12.2	2.3
1125	-425	8	8	9.52	-78.0	10.3	5.8	1.3
1125	-425	7	8	17.39	-92.0	5.7	3.2	-0.1
1125	-400	15	8	0.10	-104.0	9.7	84.1	91.4
1125	-400	15	4	0.16	-64.0	14.3	79.9	85.9
1125	-400	14	8	0.44	-74.0	41.1	65.6	81.8
1125	-400	14	4	0.61	-61.0	47.7	55.1	68.4
1125	-400	13	8	0.76	-58.0	51.8	48.1	58.8
1125	-400	13	4	0.92	-56.8	53.7	42.2	49.3
1125	-400	12	8	1.09	-54.4	51.1	36.7	40.9
1125	-400	12	4	1.32	-58.0	51.8	32.7	31.2
1125	-400	11	8	1.61	-58.0	46.0	27.7	23.4
1125	-400	10	8	2.78	-68.0	32.7	18.4	8.6
1125	-400	9	8	5.88	-78.0	16.6	9.4	2.1
1125	-400	8	8	8.99	-90.4	11.1	6.3	-0.0
1125	-400	7	8	16.67	-98.0	5.9	3.3	-0.5
1125	-375	15	8	0.25	-46.0	17.4	70.8	79.8
1125	-375	15	4	0.16	-68.0	14.8	80.2	86.5
1125	-375	14	8	0.46	-80.0	44.9	64.9	84.3
1125	-375	14	4	0.62	-68.0	53.3	56.2	71.5
1125	-375	13	8	0.76	-56.0	49.9	47.4	58.2
1125	-375	13	4	0.90	-52.0	48.4	41.0	49.6
1125	-375	12	8	1.08	-52.0	48.5	36.0	41.4
1125	-375	12	4	1.26	-52.0	46.8	32.0	34.7
1125	-375	11	8	1.60	-57.0	45.5	27.6	24.1
1125	-375	10	8	2.60	-61.0	32.4	18.6	11.8
1125	-375	9	8	4.88	-62.4	18.0	10.2	5.6
1125	-375	8	8	7.34	-78.0	13.3	7.5	1.7
1125	-375	7	8	19.51	-92.0	5.1	2.9	-0.1
1125	-350	15	8	0.09	-32.0	4.7	80.3	85.6
1125	-350	15	4	0.27	-68.0	24.8	73.7	83.8
1125	-350	14	8	0.45	-74.0	42.5	64.9	81.4
1125	-350	14	4	0.53	-64.0	44.6	59.4	73.6
1125	-350	13	8	0.70	-52.0	44.4	48.1	60.0
1125	-350	13	4	0.77	-55.6	49.8	46.9	57.5
1125	-350	12	8	1.04	-52.0	48.7	37.2	43.4
1125	-350	12	4	1.13	-50.0	46.1	34.1	39.6
1125	-350	11	8	1.47	-60.0	50.6	30.4	25.8
1125	-350	10	8	3.03	-64.0	29.0	16.5	9.0
1125	-350	9	8	4.35	-70.0	21.5	12.1	4.7
1125	-350	8	8	12.50	-92.0	8.0	4.5	-0.2
1125	-350	7	8	22.22	-84.0	4.5	2.5	0.3
1125	-325	15	8	0.16	-56.0	13.2	79.0	84.8
1125	-325	15	4	0.30	-60.0	25.4	70.8	80.9
1125	-325	14	8	0.38	-68.0	34.4	67.7	80.8
1125	-325	14	4	0.40	-52.0	29.5	63.0	74.8
1125	-325	13	8	0.72	-50.0	43.1	46.7	58.7
1125	-325	13	4	0.79	-52.0	46.6	45.1	55.8
1125	-325	12	8	1.01	-49.6	46.2	37.0	44.6
1125	-325	12	4	1.30	-51.0	45.3	30.8	33.6
1125	-325	11	8	1.56	-52.0	42.1	26.7	26.6
1125	-325	10	8	2.44	-62.4	34.9	19.9	12.3
1125	-325	9	8	4.00	-66.4	22.7	12.9	6.0
1125	-325	8	8	9.09	-58.4	9.3	5.3	3.3
1125	-325	7	8	19.51	-80.0	5.0	2.8	0.5
1125	-300	15	8	0.06	-32.0	3.2	83.5	87.1
1125	-300	15	4	0.28	-92.0	28.0	74.3	90.6
1125	-300	14	8	0.32	-62.0	27.6	70.0	80.7
1125	-300	14	4	0.57	-60.0	44.7	56.6	69.9
1125	-300	13	8	0.66	-48.8	40.2	48.7	61.5
1125	-300	13	4	0.68	-48.0	40.1	47.5	60.3
1125	-300	12	8	0.89	-48.0	44.1	39.8	50.0
1125	-300	12	4	1.27	-50.0	44.7	31.1	34.8
1125	-300	11	8	1.51	-50.0	41.2	26.8	28.2

1125	-300	10	8	2.90	-56.0	27.5	15.9	11.8
1125	-300	9	8	5.88	-44.0	11.6	6.7	7.1
1125	-300	8	8	9.09	-48.0	8.1	4.6	4.2
1125	-300	7	8	16.00	-26.0	2.7	1.5	3.2
1125	-275	15	8	0.12	-88.0	12.0	83.1	89.8
1125	-275	15	4	0.22	-100.0	21.1	77.6	92.2
1125	-275	14	8	0.42	-81.0	41.3	66.9	85.5
1125	-275	14	4	0.52	-73.8	49.0	61.3	79.0
1125	-275	13	8	0.66	-66.0	54.5	54.1	68.2
1125	-275	13	4	0.80	-60.8	55.7	47.6	57.7
1125	-275	12	8	0.97	-61.6	59.6	42.2	46.8
1125	-275	12	4	1.16	-59.0	55.4	36.3	36.8
1125	-275	11	8	1.49	-64.0	53.4	31.0	23.4
1125	-275	10	8	2.63	-65.0	33.5	19.0	10.3
1125	-275	9	8	4.76	-60.8	18.1	10.3	6.0
1125	-275	8	8	7.69	-48.0	9.6	5.5	5.0
1125	-275	7	8	10.26	-30.0	4.8	2.7	4.8
1125	-250	15	8	0.12	-88.0	12.0	83.1	89.8
1125	-250	15	4	0.29	-102.0	28.3	73.4	93.8
1125	-250	14	8	0.48	-82.0	47.3	64.1	85.1
1125	-250	14	4	0.60	-70.0	52.8	57.6	73.9
1125	-250	13	8	0.74	-64.0	56.9	50.5	62.4
1125	-250	13	4	0.88	-61.6	58.7	44.8	52.2
1125	-250	12	8	1.08	-60.8	58.3	38.9	40.5
1125	-250	12	4	1.32	-63.0	56.7	34.1	29.3
1125	-250	11	8	1.68	-66.4	50.6	28.5	18.2
1125	-250	10	8	3.03	-72.0	31.0	17.4	6.4
1125	-250	9	8	5.59	-77.0	17.4	9.8	2.4
1125	-250	8	8	10.96	-78.0	8.9	5.0	1.1
1125	-250	7	8	21.62	-71.0	4.4	2.5	0.9
1125	-225	15	8	0.08	-100.0	7.9	85.3	90.8
1125	-225	15	4	0.34	-94.0	33.9	71.1	91.5
1125	-225	14	8	0.54	-82.0	53.1	61.3	84.0
1125	-225	14	4	0.64	-70.0	56.4	55.5	71.5
1125	-225	13	8	0.81	-64.0	59.5	47.9	57.9
1125	-225	13	4	0.94	-63.0	61.0	43.4	48.9
1125	-225	12	8	1.19	-60.0	56.1	36.0	35.4
1125	-225	12	4	1.44	-64.0	54.7	31.9	24.8
1125	-225	11	8	1.84	-71.0	49.4	27.2	13.4
1125	-225	10	8	3.23	-78.0	30.2	16.8	4.1
1125	-225	9	8	5.97	-88.0	16.7	9.5	0.3
1125	-225	8	8	11.59	-100.0	8.5	4.8	-0.9
1125	-225	7	8	21.05	-112.0	4.4	2.5	-1.0
1125	-200	15	8	0.20	-128.0	15.5	75.7	97.2
1125	-200	15	4	0.38	-92.0	38.0	69.1	90.9
1125	-200	14	8	0.60	-74.4	55.7	58.0	76.6
1125	-200	14	4	0.69	-66.0	56.5	52.7	66.2
1125	-200	13	8	0.85	-62.0	58.3	46.2	54.9
1125	-200	13	4	0.99	-58.4	55.9	40.8	45.8
1125	-200	12	8	1.21	-60.0	55.8	35.7	34.7
1125	-200	12	4	1.43	-63.6	54.6	32.0	25.3
1125	-200	11	8	1.80	-68.0	48.6	27.2	15.5
1125	-200	10	8	3.08	-78.0	31.6	17.6	4.3
1125	-200	9	8	5.56	-92.0	18.0	10.1	-0.4
1125	-200	8	8	9.76	-106.0	9.8	5.6	-1.6
1125	-200	7	8	16.00	-128.0	4.9	2.8	-2.2
1125	-175	15	8	0.17	-120.0	14.6	78.8	95.0
1125	-175	15	4	0.34	-104.0	32.7	70.6	95.3
1125	-175	14	8	0.51	-74.0	48.2	61.8	79.4
1125	-175	14	4	0.58	-66.0	49.3	57.5	72.3
1125	-175	13	8	0.69	-58.4	49.6	50.9	63.0
1125	-175	13	4	0.76	-56.0	50.0	47.3	57.9
1125	-175	12	8	0.94	-54.0	50.8	40.8	48.3
1125	-175	12	4	1.12	-58.0	54.8	37.2	39.1
1125	-175	11	8	1.43	-61.0	52.3	31.4	26.5
1125	-175	10	8	2.35	-68.0	38.3	21.5	10.6

1125	-175	9	8	4.08	-68.0	22.5	12.7	5.5
1125	-175	8	8	8.25	-72.0	11.5	6.5	2.2
1125	-175	7	8	16.33	-66.0	5.6	3.2	1.4
1125	-150	15	8	0.23	-128.0	17.8	73.7	98.3
1125	-150	15	4	0.37	-92.0	36.5	69.9	90.8
1125	-150	14	8	0.43	-76.0	41.2	66.0	82.8
1125	-150	14	4	0.49	-70.0	44.1	62.7	78.3
1125	-150	13	8	0.61	-66.0	51.3	56.2	70.8
1125	-150	13	4	0.73	-64.0	56.4	50.9	63.1
1125	-150	12	8	0.89	-68.0	66.3	46.1	53.7
1125	-150	12	4	1.11	-70.0	68.9	40.2	36.4
1125	-150	11	8	1.49	-74.0	61.0	32.7	16.9
1125	-150	10	8	2.63	-82.4	37.5	20.6	3.3
1125	-150	9	8	4.88	-94.0	20.4	11.5	-0.9
1125	-150	8	8	8.70	-107.0	11.0	6.2	-1.9
1125	-150	7	8	13.11	-132.0	5.7	3.2	-2.9
1125	-125	15	8	0.13	-88.0	13.0	82.5	89.7
1125	-125	15	4	0.30	-82.0	29.7	73.1	87.4
1125	-125	14	8	0.43	-72.0	40.0	65.6	81.0
1125	-125	14	4	0.52	-66.4	45.2	60.4	75.1
1125	-125	13	8	0.64	-66.0	53.5	54.7	69.0
1125	-125	13	4	0.78	-64.0	58.5	49.0	59.9
1125	-125	12	8	0.99	-70.0	70.0	43.5	45.8
1125	-125	12	4	1.26	-71.0	66.3	36.9	27.3
1125	-125	11	8	1.75	-76.0	53.9	28.9	11.1
1125	-125	10	8	3.28	-83.0	30.2	16.8	2.3
1125	-125	9	8	6.25	-88.0	16.0	9.0	0.3
1125	-125	8	8	11.94	-100.0	8.2	4.7	-0.8
1125	-125	7	8	20.51	-122.0	4.1	2.3	-1.5
1125	-100	15	8	0.28	-74.0	26.7	73.7	85.2
1125	-100	15	4	0.50	-66.0	43.8	61.0	75.6
1125	-100	14	8	0.62	-62.0	49.1	54.9	68.3
1125	-100	14	4	0.73	-58.4	51.0	49.5	61.0
1125	-100	13	8	0.87	-60.0	56.6	45.0	53.1
1125	-100	13	4	1.03	-62.4	60.5	40.6	43.1
1125	-100	12	8	1.28	-72.0	66.5	36.5	25.5
1125	-100	12	4	1.64	-78.0	58.2	30.8	11.0
1125	-100	11	8	2.30	-86.0	43.3	23.4	2.1
1125	-100	10	8	4.26	-104.0	22.7	12.8	-3.4
1125	-100	9	8	6.84	-126.0	11.7	6.7	-5.0
1125	-100	8	8	8.89	-146.0	6.2	3.5	-5.3
1125	-100	7	8	9.76	-160.0	3.5	2.0	-5.5
1125	-075	15	8	0.46	-68.0	41.2	63.6	78.2
1125	-075	15	4	0.65	-66.0	53.8	54.5	68.8
1125	-075	14	8	0.70	-52.0	44.3	48.3	60.3
1125	-075	14	4	0.81	-52.0	47.0	44.3	54.8
1125	-075	13	8	0.94	-58.0	55.2	42.0	48.3
1125	-075	13	4	1.06	-60.0	57.6	39.3	41.8
1125	-075	12	8	1.38	-72.0	63.3	34.5	21.7
1125	-075	12	4	1.72	-80.0	56.3	29.7	8.4
1125	-075	11	8	2.41	-90.0	41.5	22.5	0.0
1125	-075	10	8	4.55	-108.0	20.8	11.8	-4.1
1125	-075	9	8	7.27	-130.0	10.5	6.0	-5.1
1125	-075	8	8	9.64	-150.0	5.1	2.9	-5.1
1125	-075	7	8	10.39	-160.0	3.3	1.8	-5.2
1125	-050	15	8	0.47	-72.0	43.6	63.7	79.8
1125	-050	15	4	0.56	-60.0	44.1	57.1	70.4
1125	-050	14	8	0.66	-55.0	45.4	51.1	63.4
1125	-050	14	4	0.71	-54.4	46.9	48.6	60.2
1125	-050	13	8	0.82	-58.0	53.6	45.7	55.0
1125	-050	13	4	0.98	-64.0	62.4	42.6	46.7
1125	-050	12	8	1.26	-72.0	67.3	37.0	26.6
1125	-050	12	4	1.64	-78.0	58.2	30.8	11.0
1125	-050	11	8	2.33	-84.0	42.7	23.1	3.1
1125	-050	10	8	5.00	-98.0	19.8	11.2	-1.7
1125	-050	9	8	9.52	-112.0	9.7	5.5	-2.3

1125	-050	8	8	16.33	-134.0	4.4	2.5	-2.4
1125	-050	7	8	20.00	-148.0	2.6	1.5	-2.4
1125	-025	15	8	0.49	-70.0	44.5	62.4	78.1
1125	-025	15	4	0.51	-63.6	42.9	60.3	74.2
1125	-025	14	8	0.62	-59.6	47.3	54.2	67.2
1125	-025	14	4	0.69	-59.0	50.4	50.9	62.9
1125	-025	13	8	0.82	-62.4	58.3	47.0	56.3
1125	-025	13	4	0.99	-66.0	64.9	42.7	45.7
1125	-025	12	8	1.33	-75.6	68.0	36.0	20.2
1125	-025	12	4	1.74	-80.0	55.8	29.5	8.3
1125	-025	11	8	2.50	-88.0	40.0	21.7	1.0
1125	-025	10	8	5.41	-96.0	18.4	10.4	-1.1
1125	-025	9	8	12.31	-108.0	7.7	4.4	-1.4
1125	-025	8	8	26.67	-118.0	3.3	1.8	-1.0
1125	-025	7	8	43.24	-134.0	1.7	0.9	-0.9
1125	0	15	8	0.52	-72.0	47.8	61.3	78.1
1125	0	15	4	0.65	-58.0	47.7	52.3	64.7
1125	0	14	8	0.70	-59.0	50.8	50.5	62.4
1125	0	14	4	0.81	-60.0	55.2	47.0	56.8
1125	0	13	8	0.99	-64.0	62.5	42.3	46.0
1125	0	13	4	1.24	-68.0	63.6	36.7	29.9
1125	0	12	8	1.61	-76.0	58.1	31.0	13.0
1125	0	12	4	2.13	-80.0	45.9	24.8	5.9
1125	0	11	8	3.03	-86.0	32.9	18.2	1.5
1125	0	10	8	6.56	-96.0	15.2	8.6	-0.9
1125	0	9	8	14.34	-106.0	6.7	3.8	-1.1
1125	0	8	8	30.48	-112.0	3.0	1.7	-0.7
1125	0	7	8	46.38	-124.0	1.8	1.0	-0.7

LINE	STATION	FCODE	RATIO	PHASE	ELLIPT	QUAD	TILT
375	000	15 8	1.28	-72.0	66.5	36.5	25.5
375	000	15 4	1.72	-66.0	49.3	27.9	17.7
375	000	14 8	2.13	-58.4	37.4	21.8	16.1
375	000	14 4	2.53	-58.0	31.9	18.5	13.2
375	000	13 8	3.03	-54.0	25.7	14.9	11.8
375	000	13 4	3.33	-54.4	23.6	13.7	10.5
375	000	12 8	4.00	-62.0	21.8	12.4	7.0
375	000	12 4	4.44	-64.0	20.0	11.4	5.9
375	000	11 8	5.41	-76.0	17.9	10.1	2.6
375	000	10 8	8.60	-104.0	11.3	6.4	-1.6
375	000	9 8	12.12	-130.0	6.3	3.6	-3.0
375	000	8 8	14.81	-148.0	3.6	2.0	-3.3
375	000	7 8	13.79	-156.0	2.9	1.6	-3.8
375	-025	15 8	1.19	-52.0	47.6	33.5	37.1
375	-025	15 4	1.54	-52.0	42.5	27.1	27.1
375	-025	14 8	1.71	-48.0	36.8	23.5	25.0
375	-025	14 4	1.96	-46.4	32.4	20.2	21.8
375	-025	13 8	2.35	-52.0	31.1	18.5	16.3
375	-025	13 4	2.70	-54.0	28.5	16.6	13.4
375	-025	12 8	3.28	-56.0	24.5	14.1	10.3
375	-025	12 4	3.64	-64.0	24.3	13.8	7.3
375	-025	11 8	4.55	-72.0	20.8	11.8	4.1
375	-025	10 8	7.08	-96.0	14.0	7.9	-0.9
375	-025	9 8	9.52	-120.0	9.1	5.1	-3.0
375	-025	8 8	14.29	-140.0	4.5	2.5	-3.1
375	-025	7 8	15.69	-160.0	2.2	1.2	-3.4
375	-050	15 8	1.61	-52.0	41.3	26.0	25.6
375	-050	15 4	1.75	-54.4	40.8	24.8	22.3
375	-050	14 8	2.22	-48.0	30.4	18.4	18.5
375	-050	14 4	2.47	-54.0	30.8	18.1	14.8
375	-050	13 8	2.94	-50.4	24.9	14.6	13.1
375	-050	13 4	3.45	-56.0	23.4	13.5	9.8
375	-050	12 8	4.26	-64.0	20.9	11.9	6.2
375	-050	12 4	5.00	-68.0	18.4	10.5	4.4
375	-050	11 8	5.97	-81.0	16.5	9.3	1.5
375	-050	10 8	7.84	-102.0	12.5	7.1	-1.5
375	-050	9 8	10.53	-132.0	7.0	4.0	-3.7
375	-050	8 8	11.76	-152.0	4.0	2.2	-4.3
375	-050	7 8	12.12	-162.0	2.5	1.4	-4.5
375	-075	15 8	2.33	-82.0	42.4	23.0	4.2
375	-075	15 4	3.70	-72.0	25.5	14.4	5.1
375	-075	14 8	4.35	-72.0	21.8	12.3	4.3
375	-075	14 4	5.00	-72.0	18.9	10.7	3.7
375	-075	13 8	5.63	-72.0	16.8	9.5	3.2
375	-075	13 4	6.78	-78.0	14.4	8.2	1.8
375	-075	12 8	7.84	-90.0	12.8	7.2	0.0
375	-075	12 4	8.70	-104.0	11.1	6.3	-1.6
375	-075	11 8	9.30	-114.0	9.8	5.6	-2.5
375	-075	10 8	10.39	-136.0	6.7	3.8	-4.0
375	-075	9 8	10.81	-152.0	4.3	2.4	-4.7
375	-075	8 8	10.00	-170.0	1.7	0.9	-5.6
375	-075	7 8	10.00	-170.0	1.7	0.9	-5.6
375	-100	15 8	0.69	-104.0	64.2	54.3	106.5
375	-100	15 4	1.19	-98.0	79.9	39.7	-19.3
375	-100	14 8	1.63	-110.0	54.3	30.0	-17.0
375	-100	14 4	2.13	-84.0	46.6	25.0	3.6
375	-100	13 8	2.90	-92.0	34.5	19.0	-0.8
375	-100	13 4	3.92	-84.0	25.3	14.2	1.6
375	-100	12 8	4.88	-94.0	20.4	11.5	-0.9
375	-100	12 4	6.01	-100.0	16.4	9.2	-1.7
375	-100	11 8	7.27	-116.0	12.3	7.0	-3.5
375	-100	10 8	9.76	-144.0	6.0	3.4	-4.8
375	-100	9 8	10.00	-148.0	5.3	3.0	-4.9

375	-100	8	8	11.43	-168.0	1.8	1.0	-4.9
375	-100	7	8	10.53	-162.0	2.9	1.6	-5.2
375	-125	15	8	0.16	-148.0	8.3	73.1	97.8
375	-125	15	4	0.36	-144.0	19.4	58.5	106.9
375	-125	14	8	0.65	-128.0	42.5	50.4	117.1
375	-125	14	4	0.98	-120.0	57.7	41.6	133.6
375	-125	13	8	1.42	-108.0	62.0	33.8	-20.5
375	-125	13	4	1.96	-104.0	48.5	26.3	-9.2
375	-125	12	8	2.78	-100.0	35.3	19.5	-4.1
375	-125	12	4	3.64	-100.0	27.0	15.1	-2.9
375	-125	11	8	5.00	-106.0	19.2	10.8	-3.3
375	-125	10	8	8.70	-122.0	9.7	5.5	-3.5
375	-125	9	8	11.76	-142.0	5.2	2.9	-3.8
375	-125	8	8	12.31	-162.0	2.5	1.4	-4.4
375	-125	7	8	10.96	-168.0	1.9	1.0	-5.1
375	-150	15	8	0.26	-184.0	-1.7	15.0	104.5
375	-150	15	4	0.18	-138.0	11.8	74.9	97.7
375	-150	14	8	0.37	-136.0	23.6	62.2	105.6
375	-150	14	4	0.48	-122.0	37.8	60.4	106.7
375	-150	13	8	0.61	-106.0	56.3	57.6	104.1
375	-150	13	4	0.79	-100.0	74.1	51.4	107.7
375	-150	12	8	1.12	-96.0	85.5	41.5	-20.9
375	-150	12	4	1.44	-93.0	69.2	34.7	-4.0
375	-150	11	8	2.13	-94.0	46.8	25.1	-2.4
375	-150	10	8	4.17	-94.0	23.9	13.4	-1.0
375	-150	9	8	7.55	-112.0	12.3	7.0	-2.9
375	-150	8	8	14.29	-118.0	6.2	3.5	-1.9
375	-150	7	8	16.67	-144.0	3.5	2.0	-2.8
375	-175	15	8	0.02	-2.4	0.1	64.4	88.9
375	-175	15	4	0.10	-112.0	9.3	83.8	92.2
375	-175	14	8	0.31	-98.0	30.1	72.8	92.7
375	-175	14	4	0.38	-87.0	37.9	69.1	88.7
375	-175	13	8	0.53	-82.4	52.2	61.8	84.5
375	-175	13	4	0.68	-81.0	65.8	55.4	79.2
375	-175	12	8	0.93	-80.0	82.7	46.6	56.3
375	-175	12	4	1.21	-82.4	79.5	39.4	17.6
375	-175	11	8	1.70	-84.0	58.3	30.4	5.4
375	-175	10	8	3.23	-96.0	30.8	17.1	-2.1
375	-175	9	8	5.41	-104.0	17.9	10.1	-2.6
375	-175	8	8	9.88	-120.0	8.7	5.0	-2.9
375	-175	7	8	13.33	-136.0	5.2	2.9	-3.1
375	-200	15	8	0.17	-20.0	5.7	63.5	80.9
375	-200	15	4	0.08	-144.0	4.7	82.2	93.7
375	-200	14	8	0.35	-90.0	35.0	70.7	90.0
375	-200	14	4	0.44	-76.0	42.1	65.6	82.6
375	-200	13	8	0.55	-68.0	48.3	59.3	74.7
375	-200	13	4	0.66	-70.0	57.5	54.9	70.7
375	-200	12	8	0.84	-70.0	67.1	48.2	58.6
375	-200	12	4	1.05	-70.0	69.7	41.7	40.7
375	-200	11	8	1.46	-76.0	63.4	33.6	16.0
375	-200	10	8	2.70	-80.0	36.3	20.0	4.2
375	-200	9	8	5.26	-83.0	18.8	10.6	1.4
375	-200	8	8	9.52	-84.0	10.4	5.9	0.6
375	-200	7	8	19.51	-82.0	5.1	2.9	0.4
375	-225	15	8	0.12	-56.0	9.9	81.7	86.1
375	-225	15	4	0.10	-128.0	8.2	82.4	93.7
375	-225	14	8	0.37	-96.0	36.7	69.5	92.6
375	-225	14	4	0.49	-80.0	47.3	63.7	83.8
375	-225	13	8	0.62	-66.0	52.0	55.8	70.3
375	-225	13	4	0.71	-64.0	55.5	51.6	64.3
375	-225	12	8	0.87	-60.0	56.6	44.8	52.8
375	-225	12	4	1.09	-60.8	58.3	38.7	40.1
375	-225	11	8	1.37	-61.0	53.6	32.5	28.3
375	-225	10	8	2.44	-58.4	33.2	19.2	13.7
375	-225	9	8	4.17	-50.4	18.1	10.4	9.0
375	-225	8	8	5.56	-38.0	10.9	6.3	8.2

375	-225	7	8	0.25	-10.0	4.5	2.5	0.0
375	-250	15	8	0.12	-72.0	11.4	82.8	87.8
375	-250	15	4	0.46	-32.0	21.0	49.0	67.6
375	-250	14	8	0.88	-30.4	26.9	29.9	49.2
375	-250	14	4	1.18	-38.0	33.8	27.4	39.0
375	-250	13	8	1.63	-46.4	36.7	24.0	26.9
375	-250	13	4	1.90	-54.4	38.4	23.1	20.1
375	-250	12	8	2.33	-66.4	38.1	21.5	11.4
375	-250	12	4	2.86	-76.0	33.7	18.7	5.5
375	-250	11	8	3.33	-89.2	30.0	16.6	0.3
375	-250	10	8	4.55	-120.0	18.8	10.7	-6.5
375	-250	9	8	4.76	-144.0	12.0	7.0	-9.8
375	-250	8	8	5.00	-154.0	8.5	5.0	-10.3
375	-250	7	8	5.26	-168.0	3.8	2.2	-10.5
375	-275	15	8	0.12	-56.0	9.9	81.7	86.1
375	-275	15	4	0.04	-180.0	-0.0	3.6	92.3
375	-275	14	8	0.92	-110.0	69.2	45.7	127.7
375	-275	14	4	1.00	-78.0	81.0	44.5	45.7
375	-275	13	8	1.14	-64.0	61.3	38.1	36.5
375	-275	13	4	1.31	-62.4	56.3	34.1	29.8
375	-275	12	8	1.55	-61.6	50.2	29.5	23.2
375	-275	12	4	1.84	-63.0	45.0	25.8	17.6
375	-275	11	8	2.38	-64.0	36.3	20.6	12.0
375	-275	10	8	4.17	-68.0	22.1	12.5	5.4
375	-275	9	8	7.41	-70.4	12.7	7.2	2.6
375	-275	8	8	14.81	-68.4	6.3	3.5	1.4
375	-275	7	8	26.67	-56.0	3.1	1.7	1.2
375	-300	15	8	0.12	-128.0	9.4	81.3	94.3
375	-300	15	4	0.14	-8.0	1.9	44.8	82.1
375	-300	14	8	0.73	-2.0	1.7	2.7	54.1
375	-300	14	4	1.24	-12.0	10.3	9.5	38.7
375	-300	13	8	1.74	-24.0	18.2	13.1	28.8
375	-300	13	4	2.13	-30.0	20.0	13.2	23.1
375	-300	12	8	2.63	-40.0	22.4	13.7	17.1
375	-300	12	4	3.03	-44.0	21.6	12.9	14.0
375	-300	11	8	3.85	-54.0	20.5	11.8	9.1
375	-300	10	8	6.25	-72.0	15.2	8.6	2.9
375	-300	9	8	10.53	-85.0	9.5	5.4	0.5
375	-300	8	8	20.00	-104.0	4.9	2.7	-0.7
375	-300	7	8	28.57	-128.0	2.8	1.5	-1.2
375	-325	15	8	0.06	-100.0	5.9	86.5	90.6
375	-325	15	4	0.21	-12.8	4.5	46.5	78.4
375	-325	14	8	0.61	-2.4	1.9	3.9	58.8
375	-325	14	4	1.08	-8.8	7.7	8.0	42.9
375	-325	13	8	1.77	-18.0	13.5	9.9	28.8
375	-325	13	4	2.44	-26.0	15.8	10.1	20.8
375	-325	12	8	3.17	-42.0	19.9	11.9	13.7
375	-325	12	4	3.85	-53.6	20.4	11.8	9.2
375	-325	11	8	4.55	-68.4	20.3	11.5	4.8
375	-325	10	8	6.72	-96.0	14.8	8.4	-0.9
375	-325	9	8	7.84	-128.0	10.0	5.7	-4.5
375	-325	8	8	8.33	-150.0	5.9	3.4	-6.0
375	-325	7	8	8.51	-160.0	4.0	2.3	-6.3
375	-350	15	8	0.07	-58.0	5.9	85.2	87.9
375	-350	15	4	0.22	-30.0	10.6	66.2	79.1
375	-350	14	8	0.55	-15.0	11.0	25.4	61.9
375	-350	14	4	0.86	-15.0	13.0	16.7	49.5
375	-350	13	8	1.38	-21.0	17.6	14.5	35.4
375	-350	13	4	1.85	-26.4	19.3	13.5	26.9
375	-350	12	8	2.50	-40.0	23.4	14.4	18.1
375	-350	12	4	3.08	-45.0	21.8	12.9	13.6
375	-350	11	8	3.92	-56.0	20.7	11.9	8.5
375	-350	10	8	6.06	-81.0	16.3	9.2	1.5
375	-350	9	8	9.19	-106.0	10.4	5.9	-1.7
375	-350	8	8	12.50	-132.0	5.9	3.4	-3.1
375	-350	7	8	14.04	-152.0	3.3	1.9	-3.6

375	-375	15	8	0.43	-38.0	34.4	63.1	73.4
375	-375	15	4	0.63	-48.0	38.3	49.9	63.0
375	-375	14	8	0.88	-46.0	41.9	39.4	50.5
375	-375	14	4	1.08	-46.4	42.7	33.9	42.0
375	-375	13	8	1.33	-46.0	40.2	28.4	33.8
375	-375	13	4	1.51	-49.0	40.3	26.4	28.5
375	-375	12	8	1.84	-50.0	36.5	22.6	22.5
375	-375	12	4	2.15	-54.0	34.6	20.6	17.4
375	-375	11	8	2.60	-58.4	31.4	18.1	12.7
375	-375	10	8	4.26	-72.0	22.2	12.5	4.4
375	-375	9	8	7.34	-84.0	13.5	7.7	0.8
375	-375	8	8	13.11	-104.0	7.4	4.2	-1.1
375	-375	7	8	21.62	-126.0	3.7	2.1	-1.6
375	-400	15	8	0.43	-86.0	42.8	66.6	87.9
375	-400	15	4	0.57	-70.0	50.9	58.7	75.0
375	-400	14	8	0.73	-60.0	52.5	50.0	61.6
375	-400	14	4	0.83	-53.0	48.5	43.8	53.6
375	-400	13	8	0.99	-49.6	46.2	37.5	45.4
375	-400	13	4	1.15	-50.4	46.4	33.8	38.8
375	-400	12	8	1.35	-50.0	43.6	29.5	32.3
375	-400	12	4	1.55	-52.0	42.3	26.9	26.8
375	-400	11	8	1.90	-54.0	38.1	23.0	20.2
375	-400	10	8	2.94	-60.0	28.5	16.4	10.5
375	-400	9	8	5.41	-64.0	16.5	9.4	4.8
375	-400	8	8	9.76	-64.0	9.2	5.2	2.6
375	-400	7	8	16.33	-50.4	4.7	2.7	2.2
375	-425	15	8	0.52	-68.0	46.0	60.7	75.9
375	-425	15	4	0.70	-54.4	46.5	49.2	61.0
375	-425	14	8	0.84	-51.0	46.6	42.7	52.8
375	-425	14	4	0.95	-46.0	42.4	37.1	47.1
375	-425	13	8	1.12	-44.0	40.0	31.7	40.4
375	-425	13	4	1.24	-42.0	37.2	28.3	36.8
375	-425	12	8	1.43	-40.0	33.6	24.2	32.3
375	-425	12	4	1.61	-42.0	33.3	22.5	28.1
375	-425	11	8	1.90	-43.0	30.7	19.6	23.3
375	-425	10	8	2.86	-48.0	24.6	14.5	14.0
375	-425	9	8	4.55	-52.0	17.0	9.8	7.9
375	-425	8	8	7.27	-42.0	9.1	5.2	5.9
375	-425	7	8	9.55	-26.4	4.6	2.6	5.4
375	-450	15	8	0.69	-74.0	62.1	54.5	72.3
375	-450	15	4	0.85	-62.0	58.3	46.2	54.9
375	-450	14	8	1.03	-52.0	48.7	37.5	43.8
375	-450	14	4	1.15	-48.0	43.9	32.8	39.1
375	-450	13	8	1.33	-44.0	38.2	27.5	34.0
375	-450	13	4	1.51	-42.0	34.4	23.8	30.0
375	-450	12	8	1.75	-40.0	30.2	20.1	26.2
375	-450	12	4	1.92	-40.0	28.4	18.4	23.8
375	-450	11	8	2.27	-40.0	25.2	15.7	19.9
375	-450	10	8	3.28	-44.0	20.2	11.9	12.9
375	-450	9	8	5.00	-40.0	12.6	7.3	8.9
375	-450	8	8	7.02	-31.0	7.2	4.1	7.0
375	-450	7	8	8.16	-18.4	3.8	2.2	6.6
375	-475	15	8	0.77	-58.0	52.3	47.5	58.0
375	-475	15	4	0.96	-50.0	46.6	38.4	46.6
375	-475	14	8	1.12	-44.0	40.0	31.7	40.4
375	-475	14	4	1.24	-42.4	37.6	28.4	36.8
375	-475	13	8	1.41	-40.0	33.8	24.5	32.8
375	-475	13	4	1.58	-38.0	30.4	21.3	29.6
375	-475	12	8	1.84	-41.0	30.1	19.6	24.7
375	-475	12	4	2.04	-42.4	28.9	18.2	21.8
375	-475	11	8	2.35	-44.8	27.2	16.6	18.2
375	-475	10	8	3.45	-52.0	22.1	12.8	10.7
375	-475	9	8	5.71	-61.6	15.3	8.7	4.9
375	-475	8	8	10.53	-60.0	8.2	4.7	2.7
375	-475	7	8	17.39	-44.0	4.0	2.2	2.4
375	-500	15	8	1.47	-50.0	41.0	27.5	29.2

375	-500	15	4	1.79	-42.4	51.0	20.0	25.2
375	-500	14	8	1.98	-38.0	26.5	17.2	23.4
375	-500	14	4	2.17	-36.0	23.6	15.1	21.7
375	-500	13	8	2.44	-36.0	21.6	13.5	19.3
375	-500	13	4	2.70	-36.0	19.9	12.2	17.4
375	-500	12	8	3.03	-34.0	17.1	10.4	15.8
375	-500	12	4	3.39	-36.0	16.4	9.8	13.8
375	-500	11	8	3.92	-40.0	15.8	9.3	11.3
375	-500	10	8	5.56	-69.0	16.7	9.5	3.8
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375	-500	8	8	16.00	-50.4	4.8	2.7	2.3
375	-500	7	8	23.53	-36.0	2.5	1.4	2.0
375	-525	15	8	1.59	-56.0	44.9	27.5	24.7
375	-525	15	4	1.96	-48.0	33.4	20.7	21.3
375	-525	14	8	2.22	-44.0	28.0	17.3	19.5
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375	-525	13	8	2.82	-41.0	21.7	13.1	15.8
375	-525	13	4	3.13	-41.6	20.0	11.9	14.0
375	-525	12	8	3.51	-42.4	18.4	10.8	12.3
375	-525	12	4	4.00	-42.4	16.3	9.5	10.7
375	-525	11	8	4.76	-46.0	14.8	8.5	8.5
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375	-525	8	8	25.00	-72.0	3.8	2.1	0.7
375	-525	7	8	44.44	-69.0	2.1	1.2	0.5
375	-550	15	8	1.75	-62.0	46.0	26.7	19.2
375	-550	15	4	2.15	-54.0	34.6	20.6	17.4
375	-550	14	8	2.44	-46.4	27.3	16.5	17.1
375	-550	14	4	2.67	-44.0	24.2	14.5	16.1
375	-550	13	8	3.03	-42.0	20.8	12.4	14.4
375	-550	13	4	3.45	-45.0	19.6	11.5	12.1
375	-550	12	8	4.00	-46.0	17.4	10.1	10.2
375	-550	12	4	4.55	-48.0	16.0	9.2	8.6
375	-550	11	8	5.48	-50.0	13.8	7.9	6.8
375	-550	10	8	8.70	-60.0	9.9	5.6	3.3
375	-550	9	8	15.38	-70.4	6.1	3.5	1.3
375	-550	8	8	28.32	-74.0	3.4	1.9	0.6
375	-550	7	8	48.48	-68.0	1.9	1.0	0.4
375	-575	15	8	2.17	-88.0	46.0	24.6	1.2
375	-575	15	4	2.78	-72.0	33.8	18.8	7.2
375	-575	14	8	3.23	-61.0	26.5	15.1	9.2
375	-575	14	4	3.51	-54.0	22.4	12.9	10.0
375	-575	13	8	4.00	-52.0	19.2	11.1	9.1
375	-575	13	4	4.55	-48.0	16.0	9.2	8.6
375	-575	12	8	5.33	-49.0	13.9	8.0	7.2
375	-575	12	4	6.56	-51.0	11.7	6.7	5.6
375	-575	11	8	7.84	-52.8	10.1	5.7	4.5
375	-575	10	8	12.90	-52.0	6.1	3.4	2.7
375	-575	9	8	20.51	-58.0	4.1	2.3	1.5
375	-575	8	8	33.33	-49.0	2.3	1.2	1.1
375	-575	7	8	55.17	-29.6	0.9	0.5	0.9
375	-600	15	8	1.49	-108.0	59.6	32.4	-18.4
375	-600	15	4	2.08	-92.0	48.0	25.6	-1.2
375	-600	14	8	2.60	-72.0	36.0	20.1	7.8
375	-600	14	4	3.03	-68.0	30.1	17.0	7.8
375	-600	13	8	3.70	-58.0	22.4	12.8	8.6
375	-600	13	4	4.35	-58.0	19.2	11.0	7.2
375	-600	12	8	5.33	-58.0	15.7	9.0	5.8
375	-600	12	4	6.35	-60.0	13.6	7.7	4.6
375	-600	11	8	8.25	-61.0	10.6	6.0	3.4
375	-600	10	8	12.90	-64.0	7.0	3.9	2.0
375	-600	9	8	23.53	-71.0	4.0	2.3	0.8
375	-600	8	8	43.84	-70.0	2.1	1.2	0.4
375	-600	7	8	100.00	-56.0	0.8	0.4	0.3

1202423

CONCESSION I

COOK TWP.
BENOIT TWP.

BL 0+00 N

1+00 S

2+00 S

3+00 S

4+00 S

CONCESSION VI

5+00 S

6+00 S

7+00 S

8+00 S

L 0+35 E

L 1+25 E

L 2+50 E

L 3+75 E

L 5+00 E

L 6+25 E

L 7+50 E

L 8+75 E

L 10+00 E

L 11+25 E

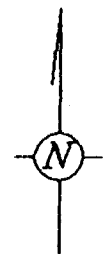
LOT 6

LOT 5

LOT 4

2.15328

1186637



CREEK

NOT SURVEYED

NOT SURVEYED

RIVER

F

D

C





E

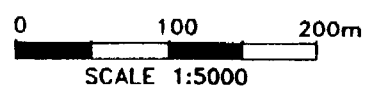
G

A

B

ANOMALY CLASSIFICATION

- STRONG 
- MEDIUM 
- WEAK 
- MINOR 



RECEIVED
MAR 1 - 1994
MINING LANDS BRANCH

WHELAN/CARMICHAEL CLAIMS
BENOIT & COOK TOWNSHIPS
LARDER LAKE MINING DIVISION, ONTARIO
MAXI-PROBE E.M. SURVEY PLAN
SCALE 1:5000 NTS 42 A/8 JMW 01/94

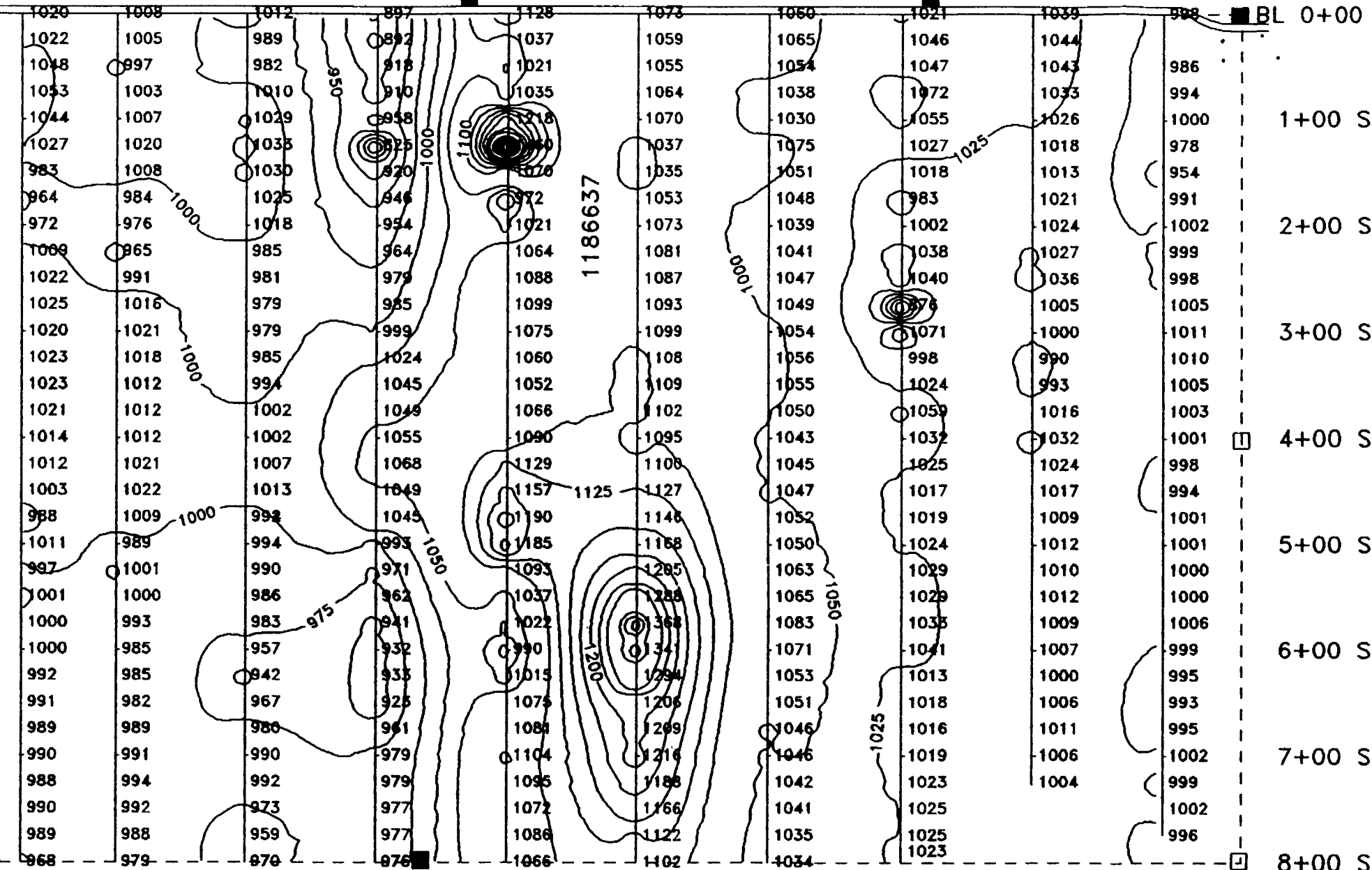
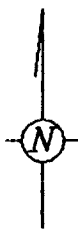
1202423

CONCESSION I

4 km TO HWY. #11
BUSH ROAD

COOK TWP.
BENOIT TWP.

BL 0+00 N



CONCESSION VI

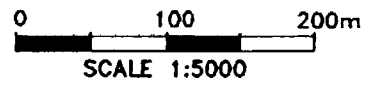
LOT 6

LOT 5

LOT 4

2. 15323

INSTRUMENT: FIELD SCINTREX IGS-2/MP4
 BASE SCINTREX MP4
 BASE STATION: 11+25 E, 0+25 S
 BASE VALUE: 58000 nT.
 DATUM: 57000 nT.
 CONTOUR INTERVAL: 25 nT.



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 MINING LANDS BRANCH

WHELAN/CARMICHAEL CLAIMS
 BENOIT & COOK TOWNSHIPS
 LARDER LAKE MINING DIVISION, ONTARIO
 TOTAL MAGNETIC FIELD SURVEY

1202423

CONCESSION I

COOK TWP.
BENOIT TWP.

BL 0+00 N

1+00 S

2+00 S

3+00 S

4+00 S

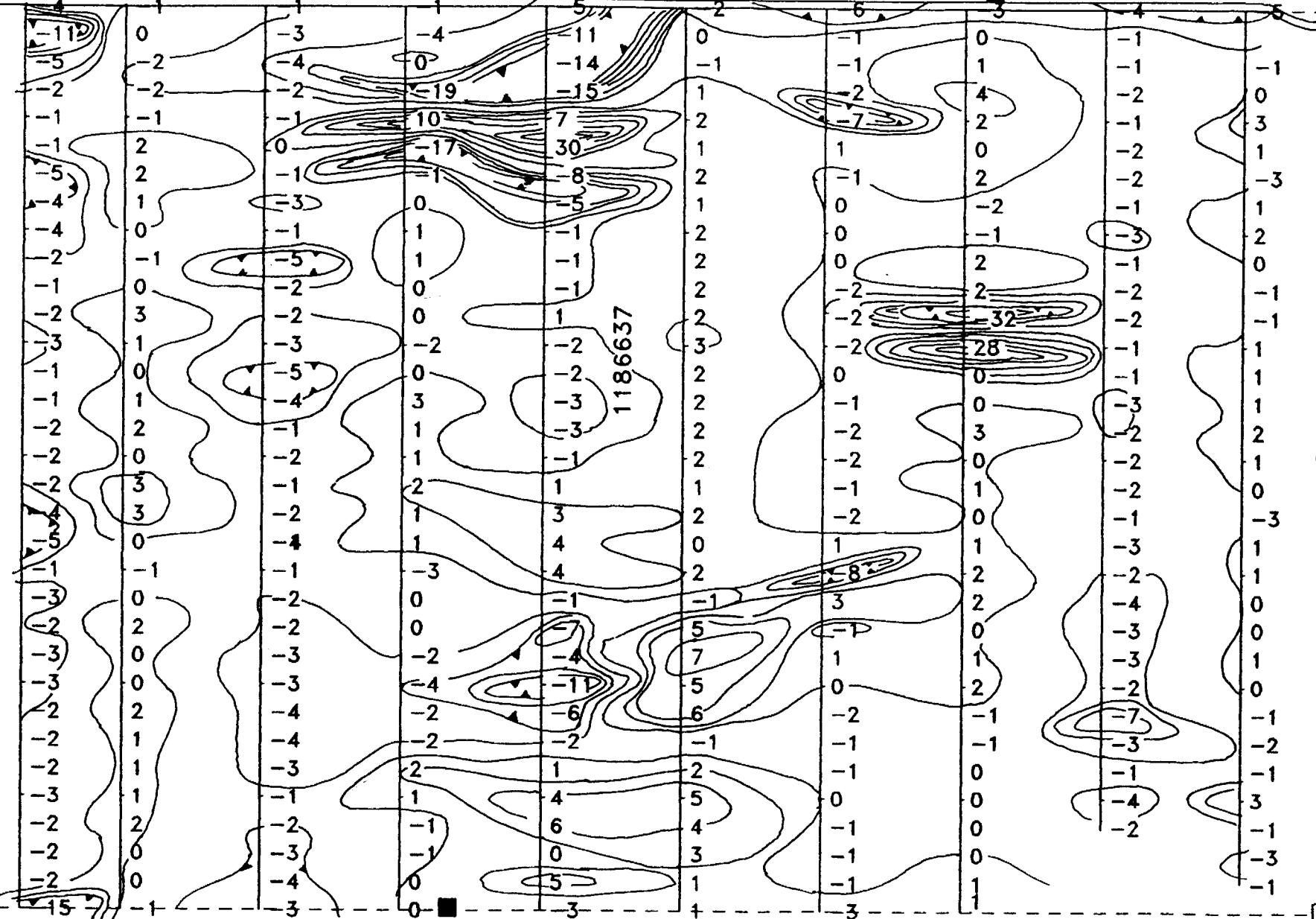
5+00 S

6+00 S

7+00 S

8+00 S

CONCESSION VI

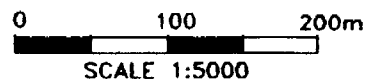


LOT 6

LOT 5

LOT 4

INSTRUMENT: FIELD SCINTREX IGS-2/MP4
BASE SCINTREX MP4
BASE STATION: 11+25 E, 0+25 S
BASE VALUE: 58000 nT.
SENSOR SEPERATION: 1 meter
CONTOUR INTERVAL 2 nT/meter



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MAR 1 - 1994
MINING LANDS BRANCH

2-15323
WHELAN/CARMICHAEL CLAIMS
BENOIT & COOK TOWNSHIPS
LARDER LAKE MINING DIVISION, ONTARIO
VERTICAL MAGNETIC GRADIENT SURVEY
SCALE 1:5000 NTS 42 A/8 JMW 01/94



42A085E9902 2.15323 BENOIT

900

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Geoscience Approvals Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (705) 670-5853
Fax: (705) 670-5863

March 21, 1994

Our File: 2.15323
Transaction #: W9480.00095

Mining Recorder
Ministry of Northern Development
and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir/Madam:

**Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIM
1186637 IN BENOIT TOWNSHIP**

The assessment work credits for Geophysics filed under Section 14 of the Mining Act Regulations have been approved as outlined in the original submission.

The approval date is March 18, 1994.

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5855.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Ron C. Gashinski".

Ron C. Gashinski
Senior Manager, Mining Lands Section
Mining and Land Management Branch
Mines and Minerals Division

KR/jl

Enclosures:

cc: Resident Geologist
Kirkland Lake, Ontario

Assessment Files Library
Toronto, Ontario

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 8A5, telephone (705) 870-7264.

2.15323

- Instructions:
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
 - A separate copy of this form must be completed for each Work Group.
 - Technical reports and maps must accompany this form in duplicate.
 - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) STEWART CAROL MICHAEL / Jim WHELAN	Client No. 115973/208114
Address 114 MAIN ST. KIRKLAND LAKE ONTARIO P2N 3E8	Telephone No. 705-568-8160
Mining Division LARDER LAKE	Township/Area BENOIT TWP.
	M or G Plan No. M326
Date Work Performed From: AUG 31/93	To: JAN 31/94

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	MAGNETIC / ELECTRO MAGNETIC SURVEYS
<input type="checkbox"/> Physical Work, Including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

RECEIVED
MAR 1 - 1994
MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs \$ **7971.00**

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Jim WHELAN	114 MAIN ST. KIRKLAND LAKE ONT. P2N 3E8
GEO-EM INC.	5468 DUNDAS ST. WEST, SUITE 701 TORONTO ONT. M9B-6E3

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date JAN 31/94	Recorded Holder or Agent (Signature) <i>[Signature]</i>
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Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying
Jim WHELAN, 114 MAIN ST. KIRKLAND LAKE ONT. P2N 3E8

Telephone No. 705 568-8160	Date JAN 31/94	Certified By (Signature) <i>[Signature]</i>
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For Office Use Only

Total Value Cr. Recorded \$7971.	Date Recorded Feb. 23/94	Mining Recorder <i>[Signature]</i>	Received Stamp ST FEB 23 PM 2 43
	Deemed Approval Date May 24/94	Date Approved <i>[Signature]</i>	RECEIVED
	Date Notice for Amendments Sent		

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
2. 15323	1186637	6
1		

Total Number of Claims

Value of Assessment Work Done on this Claim	Value Applied to this Claim
7971.00	7971.00
7971.00	7971.00

Total Value Work Done

Total Value Work Applied

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> RECEIVED MAR 1 - 1994 MINING LANDS BRANCH </div>	

Total Assigned From

Total Reserve

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

1. Credits are to be cut back starting with the claim listed last, working backwards.
2. Credits are to be cut back equally over all claims contained in this report of work.
3. Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

Signature	Date
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2. 15323

DOCUMENT No.
W 9480-00095

Statement of Costs

Line cutting: 9.07 km @ 250/km \$2267.50
(Line cutting conducted by recorded holder and assistants)

Electromagnetic Survey:
Consulting fees and equipment rental GEO-EM Inc. \$3210.00
Wages 6 days, recorded holder and 2 assistants \$2100.00

Magnetic Survey: 7.87 km @ 50/km \$ 393.50
(Survey conducted by recorded holder)

Total \$7971.00

Quat. # 2. 11564

[Signature]
Jim Whelan

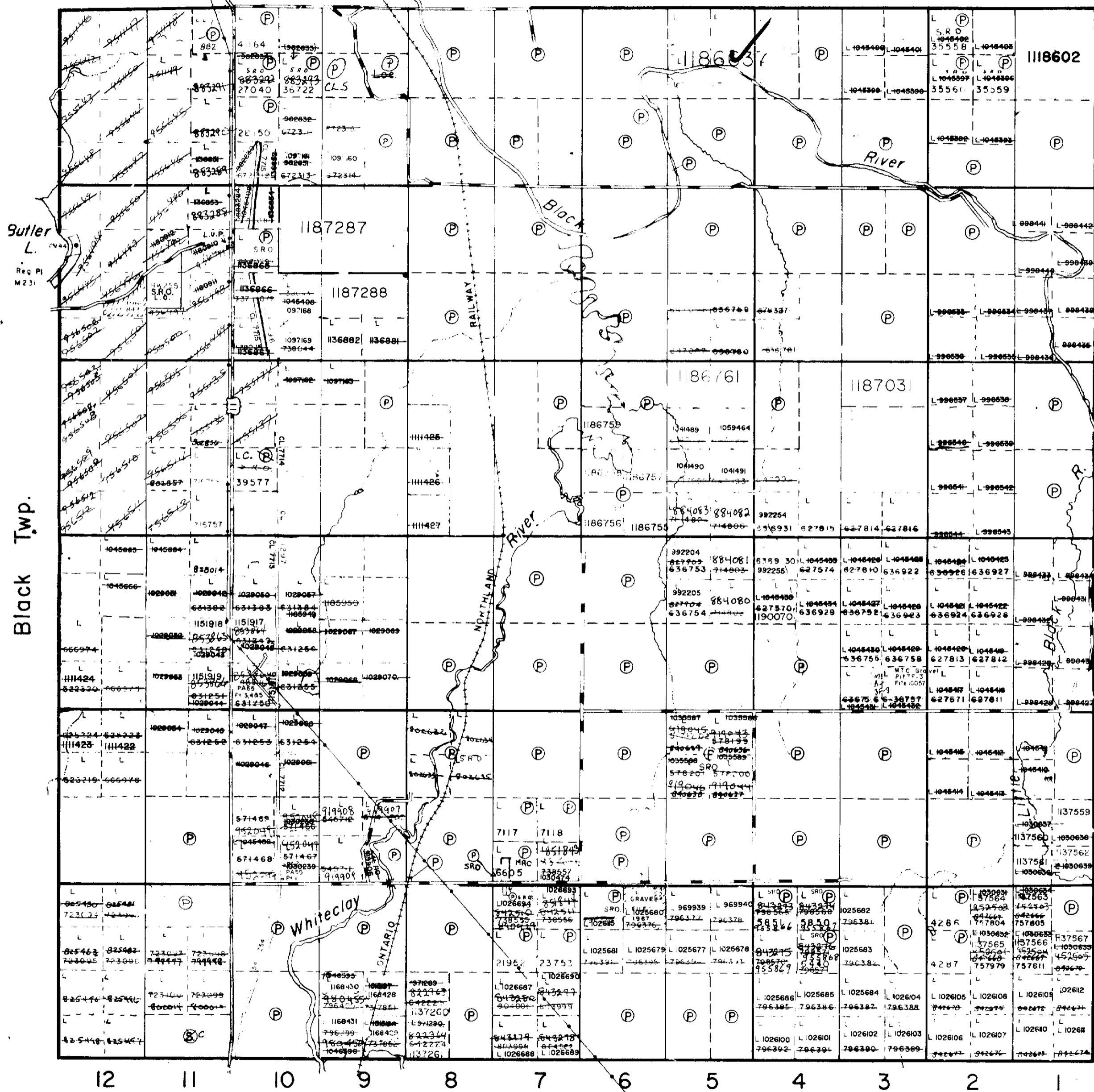
RECEIVED
MAR 1 - 1994
MINING LANDS BRANCH

W.350

DEMIOI TWT

W.350

Cook Twp.



NOTICE OF FORESTRY ACTIVITY
 THIS TOWNSHIP / AREA FALLS WITHIN THE _____
 WATABEAG MANAGEMENT UNIT
 AND MAY BE SUBJECT TO FORESTRY OPERATIONS.
 THE MNR UNIT FORESTER FOR THIS AREA CAN BE
 CONTACTED AT: P.O. BOX 129

Maisonville Twp.
 COPY OF THIS MYLAR
 ARCHIVED MARCH 17, 1993

Surface Rights Withdrawn under Sec. 36,
 The Mining Act R.S.O. 1980, ORDER NO. W-01/91/ONT
 (Trans Canada Pipeline Right of Way and Butler
 Zone particularly 40.25 meters or 132 ft. on
 either side of centre line of right of way)

THE TOWNSHIP OF

BENOIT

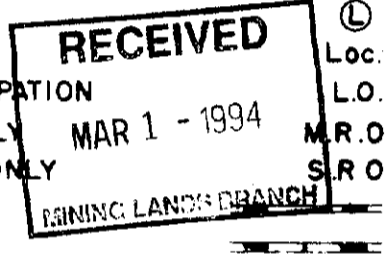
DISTRICT OF COCHRANE

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

- PATENTED LAND ● or ⊕
- CROWN LAND SALE ⊙ or C.S.
- LEASES ⊕
- LOCATED LAND ⊙ Loc.
- LICENSE OF OCCUPATION L.O.
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- PATENTED S.R.O.
- CANCELLED



NOTES

400' Surface rights reservation around all lakes & rivers.

Gravel Reserve Shown Thus:

400' frontage on Butler Lake withdrawn from disposition for proposed summer resort development. File 164586

Area withdrawn from staking under Section 36 of the Mining Act (R.S.O. 1980) File _____

Date _____ Disposition _____
DATE OF ISSUE
FEB 23 1994
 LARDER LAKE MINING RECORDER'S OFFICE

PLAN NO.-M.326 #10

ONTARIO
MINISTRY OF NATURAL RESOURCES
 SURVEYS AND MAPPING BRANCH

VI

V

IV

III

II

I

Melba Twp.

W.350

BENOIT TWT

W.350



42A085E9902 2.15323 BENOIT

BENOIT TOWNSHIP (M-0326)