



41P11SE8600 2.15246 FAWCETT

010

GEOPHYSICAL REPORT
ON THE
FAWCETT TOWNSHIP PROPERTY
DISTRICT OF SUDBURY
ONTARIO
NTS 41P/11

2.15246

L.D.S. WINTER
DECEMBER 23, 1993



41P11SE8600 2.15246 FAWCETT

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SUMMARY

All of the bedrock formations in the area are of Precambrian age and consist of a northwesterly trending isoclinally folded sequence of supracrustal metavolcanics / metasediments. The metavolcanics range in composition from ultramafic to felsic. A large granitoid batholith bounds the property area to the south and north-northwest trending faults and diabase dykes are a common feature of the area.

Fort Knox Gold Resources recently drilled (1991-1992) a nickel-copper discovery in ultramafic rocks on their property lying immediately to the west of the subject claims. In addition, Fort Knox did some work directed towards the discovery of volcanogenic massive sulphide-type copper-zinc mineralization within their property.

All of the subject property is covered by glacial deposits and there are no outcrops within the property area. Geophysical surveys and mapping by the Ontario government (Carter, 1977) suggest that the subject claim group is underlain by ultramafic flows and possibly felsic metavolcanics.

A program of line-cutting (48.8 km) and magnetometer and VLF-EM surveys has recently been completed on the property and has indicated three (3) geophysically anomalous areas. The most interesting anomaly lies along the baseline and trends NW. The second anomaly is in the southeastern portion of the property and the third in the southwestern part.

Additional work is recommended to further evaluate the potential of the property.

1. INTRODUCTION

The Fawcett Township property consists of 3 contiguous, unpatented mining claims (31 units) in the north-central part of Fawcett Township, Shining Tree area, northeastern Ontario. The property is midway between Sudbury and Timmins, being approximately 150 kilometres from each city (Figure 1). The 31 claim group is immediately east of the Fort Knox Gold Resources property where a nickel-copper discovery was recently made. The discovery announcement reported a 110.9 foot (33.8 m) drill intersection grading 1.03% nickel and 0.43% copper in hole SG-2. Subsequently, mineralization over a strike length of 900 ft. (274 m) and to a depth of 1,300 ft. (396 m) has been reported.

Since the early part of the 1900's there has been considerable exploration activity in the Shining Tree area. This work was mainly directed towards the search for gold and silver with the effort peaking in the 1930's. There has only been limited exploration activity for base metals.

Following the recommendations of the Winter report (1993) a programme of line-cutting and geophysics has been carried out on the Fawcett Township Property. Geophysical surveys consisted of a magnetometer and VLF electromagnetic survey. The following report summarizes the findings of these geophysical surveys and makes recommendations for further exploration work.

2. PROPERTY

2.1 CLAIM DESCRIPTION

The property consists of three (3) block claims comprising 31 units as listed in Table 1 below and shown in Figure 2. The claims were staked in October of 1991, and are recorded in the Larder Lake Mining Division. The claims are currently on extension, subject to the completion of the

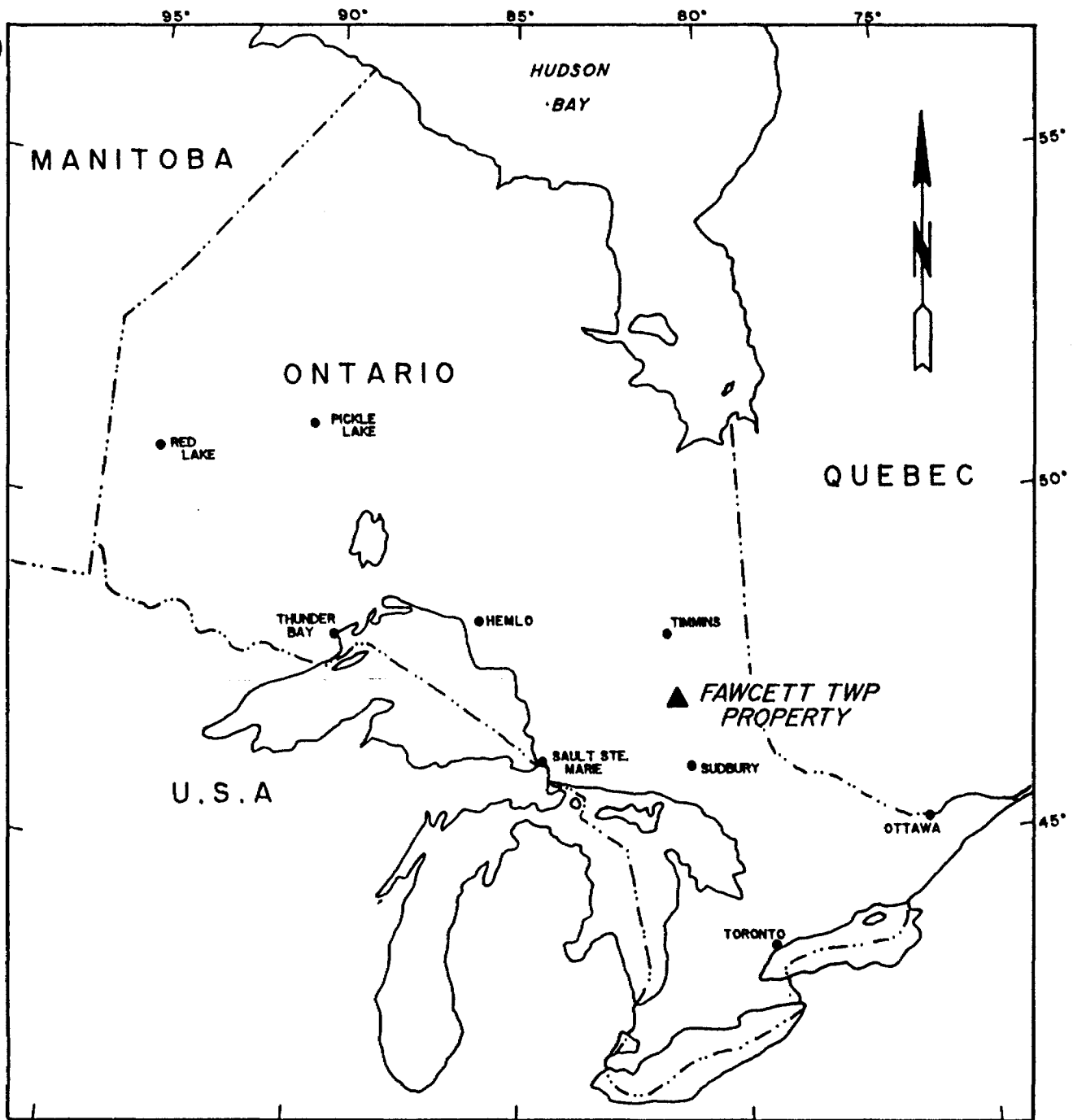


FIGURE 1

LOCATION MAP

FAWCETT TWP PROPERTY



DECEMBER, 1993

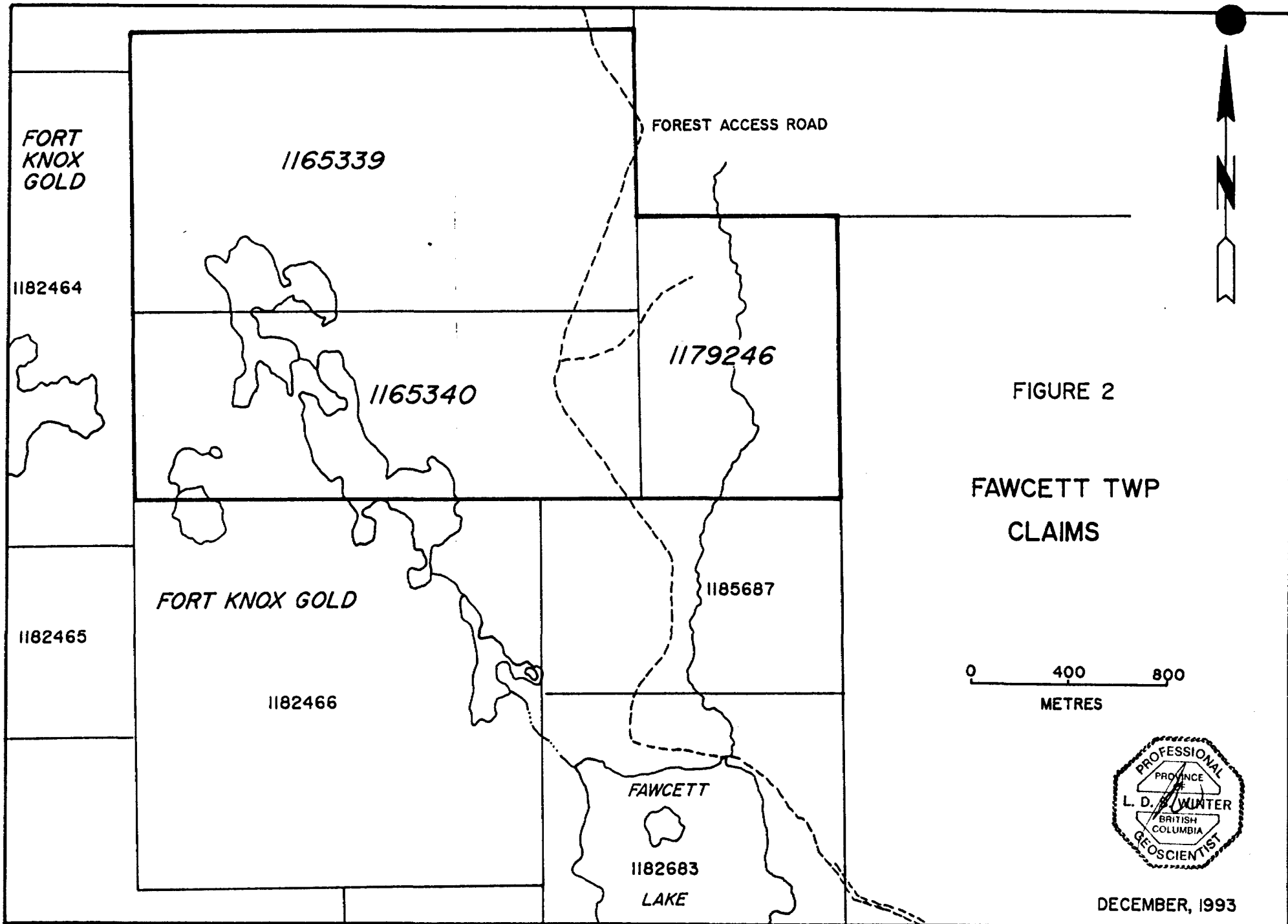


FIGURE 2

FAWCETT TWP
CLAIMS

DECEMBER, 1993

geophysical work described in this report.

Table 1
Fawcett Township Claim Group

<u>Claim</u>	<u>Units</u>	<u>Area (hectares)</u>
1165339	15	240
1165340	10	160
1179246	<u>6</u>	<u>96</u>
Total	31	496

2.2 LOCATION AND ACCESS

The 31 claim units are located in the north-central part of Fawcett Township at 47° 35'N latitude, 81° 07'W longitude, 10 kilometres east of Shining Tree and 30 kilometres west-southwest of Gowganda, Ontario. The NTS co-ordinates for the area are 41P/11.

The property can be easily accessed by road from Sudbury, north on Hwy 144, a distance of 150 kilometres to provincial Hwy. 560. Hwy. 560 is also 150 kilometres south of Timmins. From Hwy. 144, hwy. 560 leads east, a distance of approximately 80 kilometres to the Fawcett and Ogilvie townships forest access road. This road traverses the eastern part of the claim group (Figure 2).

2.3 TOPOGRAPHY AND VEGETATION

The area has a gently rolling topography influenced by the general bedrock configuration and the overlying glacial deposits. In the general area of the property, there is a considerable cover of glacial material that may be up to 20 metres thick.

The area is well forested with spruce, jackpine and birch and poplar. The area is being actively logged with the result that some areas have been clear-cut.

2.4 INFRASTRUCTURE

Hwy. 560 is a paved provincial highway and the Fawcett township forest access road is an all-weather gravel road. Electric power and services are available in the villages of Shining Tree and Gowganda and full services are available in Timmins to the north, the Tri-Town area to the east and Sudbury to the south.

3. GEOLOGY

3.1 REGIONAL GEOLOGY

Fawcett township was mapped by Carter (1977) for the Ontario Division of Mines, (Ontario Geological Survey). The following description is summarized from Geoscience Report 146, Geology of Fawcett and Leonard townships.

All of the bedrock formations in the area are of Precambrian age and these are covered by a thin veneer of Pleistocene and Recent deposits.

The early Precambrian (Archean) rocks comprise a metavolcanic-metasedimentary sequence interlayered with ultramafic flows/sills and iron formation. An intrusive quartz monzonite pluton and northeasterly and northwesterly trending diabase dykes intrude the supracrustal sequence. The metavolcanic / metasedimentary rocks consist dominantly of mafic flows with some intermediate to felsic flows and pyroclastics. The ultramafic rocks consist of serpentized material of original dunitic and peridotitic composition and are of minor

aerial extent. The largest body of this type occurs in the southeastern part of the township. It is not exposed but was encountered in diamond drilling and it appears to extend northwestwards across the township based on the airborne magnetics.

Northwesterly striking diabase dykes of Matachewan-type cut the metavolcanics, metasediments and the quartz monzonite. A few northeasterly trending diabase dykes cut all other units and are probably part of the Abitibi swarm.

Middle Precambrian rocks are represented by the Nipissing diabase and Huronian sediments of the Gowganda and Lorraine formations of the Cobalt group which unconformably overlie the early Precambrian rocks immediately east of Fawcett township. The Nipissing diabase occurs as sill-like intrusives into the Early Precambrian formations.

Structurally the metavolcanics and metasediments are isoclinally folded about northwesterly trending axes into a series of parallel antiforms and synforms. The major faults trend north-northwesterly, postdate the Nipissing diabase and appear to have developed a number of faults, blocks within the area.

The Granite Lake pluton of quartz monzonitic composition is intrusive into the supracrustal sequences and underlies most of the southern part of the township.

The copper-nickel and copper-zinc mineralization being evaluated by Fort Knox Gold Resources occurs within the supracrustal units immediately north of the Granite Lake pluton. The nickel-copper mineralization is associated with ultramafics while the copper-zinc mineralization is associated with metavolcanics and associated metasediments.

3.2 PROPERTY GEOLOGY

Based on the writer's property visit and mapping by the Ontario Geological Survey, it appears that there is no outcrop in the area of the subject claims. The area is covered by a thick layer of glacial material. Carter (1977) shows that the property is situated within a sequence of northwest-southeast trending metavolcanics with the supracrustal units having been isoclinally folded about northwest-southeast trending fold axes. All units in the area dip vertically to sub-vertically.

Within the property are two (2) broad magnetic highs. The one through the central part of the property is considered to represent ultramafic units within the volcanic sequence. Carter (ibid) shows this ultramafic unit continuing to the south-southeast, based on the airborne geophysics. It is in this area that Raylloyd Mines and Explorations Limited intersected ultramafics containing millerite and pentlandite (nickel mineralization) (Assessment Files). The cause of the second magnetic anomaly in the eastern part of the claims is unknown due to the lack of outcrop.

Approximately 1,500 metres southwest of the subject claims, the volcanic units are in contact with a granitoid batholith which occupies much of the region to the south.

Based on the regional geology, there are a number of north-northwest trending faults and diabase dykes in the area and their presence within the subject property should be anticipated. These structures show an east-side north apparent movement.

The Fort Knox Gold Resources nickel-copper discovery is located 2.4 km due west of the claim block and the area of interesting copper-zinc mineralization is located 3 km to the northwest along strike of the metavolcanic units.

4. LOGISTICS AND PERSONNEL

The survey crew was deployed on a daily basis from a camp set up on the Fawcett Township property. Line-cutting and geophysical work commenced on September 25, 1993 and surveys across the ice were finished December 10, 1993.

The line-cutting crew consisted of the following personnel:

Dan Patrie, party chief, Massey, Ontario
Brent Patrie, Massey, Ontario
Anthony Burli, Massey, Ontario
Scott Whalen, Massey, Ontario

Both magnetometer and VLF-EM surveys were carried out by Dan Patrie and Anthony Burli.

The data plotting was done by Insinna Consulting Services.

5. LINE-CUTTING PROGRAMME

A detailed metric grid was established to cover the Fawcett Township claim group. In total 48.8 km of line were cut consisting of 4.0 km of baseline and tie-line and 44.8 km of crosslines.

The grid consists of a baseline, tie-lines and crosslines from L 0+00 to L 27+00 East. Orientation of the baseline is azimuth 120 degrees. Crosslines, turned off at 90 degrees from the baseline, were established at 100 meter intervals with pickets erected at 25 meter spacing.

6. GEOPHYSICAL PROGRAMME

The geophysical program consisted of a total field magnetometer survey and a VLF electromagnetic survey. Readings were taken at 25 meter intervals on all surveyed lines including the baseline and tie-lines. The survey was carried out using two (2) EDA OMNI PLUS magnetometer/VLF units and an OMNI-IV base station magnetometer. A total of 528 stations were read.

6.1 Instrumentation and Survey Procedure

The EDA OMNI PLUS with an OMNI-IV base station magnetometer was used to carry out the magnetic survey. These are total field magnetometers which measure the magnetic field through the use of proton precessional effects caused by the interaction of a magnetic field with a spin-aligned, proton-rich fluid. An instrument accuracy, precision, and resolution of 0.1 Nt may be obtained with these instruments under ideal conditions. Microprocessors contained in these instruments allow for the collection of the reading, along with the time and its position, in digital form suitable for transfer to portable computers.

The total magnetic field was measured at 25 meter intervals along all lines. Total field measurements were concurrently recorded at 30 second intervals by the base station magnetometer, which was located on the grid. All field measurements were corrected for diurnal variations of the earth's magnetic field by direct subtraction of the base station reading from the field reading taken at the same time. The corrected magnetic data has been plotted, contoured and is presented in the Total Magnetic Field plot.

The VLF-EM in-phase and quadrature measurements were taken using the transmitter at Cutler, Maine, U.S.A. transmitting at a frequency of 24.0 KHz. Readings were taken every 25 meters

along all grid lines. The data was Fraser-filtered and contoured and is presented in the Fraser-Filter VLF-EM map. The VLF-EM data is also presented on a second map as in-phase and quadrature profiles.

All data was stored on diskette in AUDOCAD files.

Instrumentation specifications are included as Appendix A of this report.

6.2 REGIONAL GEOPHYSICS

Fawcett Township and the surrounding area has recently been covered by a GEOTEM airborne electromagnetic and magnetic survey carried out by Geoterrax Limited for the Ontario Geological Survey (1990). The survey was flown along lines directed northeast-southwest and with a 200 metre line spacing. There are no EM conductors indicated on the subject claims however, the magnetic results confirm the geological presentation of Carter (1970). In the southwestern third of the property, a band of northwest-southeast trending magnetic highs is present which is interpreted to represent ultramafic flows. This would be a similar environment to that hosting the Fort Knox Gold Resources copper-nickel mineralization to the northwest and the Raylloyd mineralization to the south-southeast. In the eastern part of the property, a second area of elevated magnetics trending northwesterly may be due to ultramafic flows but there is no outcropping to confirm this. Between these two (2) areas is an area of low, generally flat magnetics, which is considered to represent intermediate to felsic metavolcanics.

On a regional basis, the Fawcett Township property lies on the southern flank of a large regional gravity high. This would suggest that there is a significant volcanic pile in the region, a favourable environment for the localization of sulphide

deposits.

6.3 PROPERTY GEOPHYSICS

There are three geophysically anomalous areas on the property. The most interesting is a linear magnetic anomaly trending NW along BL 0+00. The second anomaly is located in the southeast portion of the property and the third is located in the southwestern corner of the property.

The Baseline anomaly consists of magnetic highs trending NW along BL 0+00. The anomalies peak between 800 and 1600 Nt. A VLF anomaly coincides with one section of the magnetic anomaly at L 10+00 E, 1+50 S. The VLF anomaly has a Fraser filter peak of 40%, which along with the magnetic signature denotes a mineralized target. The absence of a linear VLF anomaly may be due to the depth of overburden on the property. This target is an excellent candidate for further geophysical testing.

The southeastern anomalies are a number of small anomalies grouped together and cover an area east of L 27+00 E, BL 0+00 to L 18+00 E, 7+50 N. The anomalies peak between 800 and 1200 Nt in magnitude at distinct locations in the anomalous area eg. L 20+00 E, 7+00 N. The VLF survey has only one valid anomaly which corresponds to a magnetic anomaly located at L 23+00 E to L 27+00 E at 8+50 N. There are two very large VLF anomalies, each located at a single station on the grid. It is considered that these anomalies are not valid targets for exploration and are probably caused by fluctuations in the signal field or by an instrumentation problem. The anomalies on the east section of the property should be further tested geophysically to determine their validity.

The western anomaly is a small magnetic anomaly, peaking at 400 to 800 nT and trending parallel to the baseline target. A

VLF anomaly of 40% (Fraser filter value) corresponds directly to a portion of the magnetic anomaly. The general location for this target is L 7+00 E, 10+50 S.

7. CONCLUSIONS AND RECOMMENDATIONS

The property is all overburdened covered. To further evaluate the property additional geophysics to assess the potential of the three (3) identified target areas is recommended. Based on the results of the present surveys, it is recommended that;

1. A Horizontal Loop survey be conducted over the entire property using a 200 metre cable and reading 2 frequencies (222 Hz. and 1777Hz.)and,
2. A Pulse E.M. survey be conducted over selected areas of the grid as a follow-up to horizontal loop survey.

The objective of additional geophysical work would be to identify sulphide mineralization of economic significance (Cu-Ni or Cu-Zn).

L.D.S. Winter



L.D.S. Winter
December 23, 1993

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Geological Report on the Fawcett Township Property, District of Sudbury, 23 p.

CERTIFICATE OF QUALIFICATION

I, Lionel Donald Stewart Winter do hereby certify:

1. that I am a geologist and reside at 1849 Oriole Drive, Sudbury, Ontario, P3E 2W5,
2. that I am a registered geoscientist in the Association of Professional Engineers and Geoscientists of British Columbia,
3. that I am a Fellow of the Geological Association of Canada,
4. that I graduated from the University of Toronto in Mining Engineering in 1957 with a Bachelor of Applied Science and from McGill University, Montreal in 1961 with a Master of Science (Applied) in Geology,
5. that I have practiced my profession continuously since 1957,
6. that my report on the Fawcett Township Property, District of Sudbury, Ontario is based on my personal knowledge of the property and the geophysical program and on a review of published and unpublished information on the property and surrounding area.

LDS Winter



L.D.S. Winter
B.A.Sc., M.Sc., P. Geo. (B.C.)
December 23, 1993

APPENDIX A

EDA OMNI PLUS VLF/MAGNETOMETER

• OMNI PLUS 'Triline' VLF/Magnetometer system



Major Benefits of the OMNI PLUS

- Combined VLF/Magnetometer/Gradiometer System
- No Orientation Required
- Four VLF Magnetic Parameters Recorded
- Automatic Calculation of Fraser Filter
- Automatic Correction of Primary Field Variations
- Calculation of Ellipticity
- Measurement of VLF Electric Field

OMNI PLUS "Tie-Line" VLF/Magnetometer System

Description

The OMNI PLUS geophysical system combines the OMNI IV "Tie-Line" magnetometer and gradiometer together with a VLF measurement capability.

The OMNI PLUS VLF/Magnetometer System has been developed in co-operation with Geophysical Surveys Inc. of Quebec, Canada.

This brochure concentrates on the VLF magnetic and electric field parameters measured and recorded by the OMNI PLUS. More information on the OMNI PLUS magnetometer system and tie-line capability is available in the OMNI IV brochure.

Features

Each OMNI PLUS incorporates the following features:

- Measurement and recording in memory of the following VLF data for each field reading:
 - vertical in phase,
 - vertical quadrature (out-of-phase),
 - total field strength,
 - dip angle,
 - apparent resistivity,-
 - phase angle,
 - time,
 - grid co ordinates,
 - direction of travel along grid lines, and
 - natural and cultural features.
- Complete data protection for a number of years by an internal lithium backup battery.
- "Tie-Line" or "Looping" algorithm, unique only to EDA's OMNI IV and OMNI PLUS Series, for the self-correction of atmospheric variations and variations in the primary field from the VLF transmitter(s).

- Measurement of up to three VLF transmitting stations to provide complete coverage of an anomaly regardless of the orientation of the survey grid or of the anomaly itself.
- Display descriptors to monitor the quality of the first two VLF transmitter signals being measured.
- Choice of three data storage modes:
 - spot record, for readings without grid co ordinates
 - multi record, for multiple readings at one station
 - auto record, for automatic update of station number
- Output of grid co ordinates with the designated compass bearing, using N, S, E, W descriptors.

Major Benefits

• **Combined VLF/Magnetometer / Gradiometer System**

The OMNI PLUS incorporates the capabilities of the OMNI IV "Tie-Line" Magnetometer and Gradiometer System with the ability to measure the VLF magnetic and electric fields.

Only one OMNI PLUS is needed to record all of the following geophysical parameters:

1. The total magnetic field
2. The simultaneous gradient of the total magnetic field
3. The VLF magnetic field, including:
 - the vertical in phase
 - the vertical quadrature
 - the total field strength
 - the dip angle
4. The VLF electric field, including
 - the phase angle
 - apparent resistivity

As an example, at each location the OMNI PLUS can calculate and record **in less than 8 seconds**, four VLF magnetic field parameters from

three different transmitters, a magnetic total field reading and a simultaneous magnetic gradient reading. In addition, the OMNI PLUS can also measure and record two VLF electric field parameters from three different transmitters.

• **No Orientation Required**

The OMNI PLUS requires no orientation, by the operator, of the sensor head toward the transmitter station. This simplifies field procedures as well as saving considerable survey time. When three VLF transmitters are measured, the benefits of this time-saving feature are automatically tripled. There is no requirement for the operator to orient himself and the sensor head toward the first selected transmitting station and then re-orient towards the second or third transmitting station.

Consistent high quality data is achieved in the OMNI PLUS due to the utilization of three orthogonal sensor coils rather than two sensor coils used in conventional systems. The quality of data is not then dependent on the operator's ability to correctly orient the sensor head for optimum coupling with the transmitting station.

The OMNI PLUS compensates automatically for the direction of travel along the grid lines as well as for the angle of the sensors from the vertical plane through the use of tiltmeters.

• **Four VLF Magnetic Parameters Recorded**

The OMNI PLUS calculates and records in memory the:

- vertical in phase
- vertical quadrature
- total field strength
- dip angle

The operator has the option to substitute the horizontal amplitude for the total field strength. The OMNI PLUS calculates each of these parameters from the in phase and quadrature measurements of all three components.

Automatic Calculation of Fraser Filter

The OMNI PLUS automatically calculates the Fraser Filter, from the dip angle data, regardless of the interval between the stations along the grid lines. The operator no longer has to manually perform this mathematical calculation thereby reducing the possibility of human error. The Fraser Filter algorithm follows established conventions.

The operator can choose to output either the dip angle or the Fraser filtered data, or both.

Automatic Correction of Primary Field Variations

The OMNI PLUS can be used as a base station to monitor primary field changes from up to three VLF transmitters as well as alternately measuring the variations in the magnitude of the earth's magnetic field. Only one OMNI PLUS is needed to perform both functions.

The OMNI PLUS base station can then automatically correct, by linear interpolation, the field units for these drift variations in the primary VLF and total magnetic fields.

Calculation of Ellipticity

The OMNI PLUS calculates the true ellipticity of the VLF magnetic field from the measurement of the in phase and quadrature of all three components. The ellipticity provides more interpretative information about the anomaly than the dip angle and is less influenced by overburden shielding.

• Measurement of VLF Electric Field

The OMNI PLUS calculates and records the apparent resistivity and phase angle from the measurement of the VLF electric field. This VLF electric field measurement can be accomplished by using capacitively or resistively coupled electrodes at spacings of 5, 10 or 20 meters.

Other Benefits

• Automatic Tuning

The OMNI PLUS automatically tunes up to three VLF transmitters within a frequency range of 15 to 30 kHz, once the operator has programmed in the specific frequencies.

• Base Station Synchronization

The OMNI PLUS has a unique "count-down" feature which can be activated in the field unit upon synchronization with the base station. The field unit then displays and decrements the remaining time, in seconds, until the base station is scheduled to take a measurement. The operator can obtain a field reading at exactly the same time as the base station. The simultaneous field and base station measurements significantly improve the automatic correction accuracy.

• Automatic "Tie-Line" Correction

The OMNI PLUS can automatically correct by itself the VLF field data for atmospheric variations and changes in the primary field originating from the VLF transmitter. By tying back into one or several tiepoints on the grid, the

OMNI PLUS will automatically calculate and apply the drift measured to the field data previously recorded in memory. More information on this unique "tie-line" method can be obtained from page 3 of the OMNI IV brochure.

• Notation of Natural and Cultural Features

The OMNI PLUS can record natural and cultural features unique to each grid location. This capability eliminates the need for a field notebook and provides additional information that can assist in interpreting recorded data.

• Analogue Output

Since VLF as well as magnetic data is often easier to interpret as a profile plot, data collected by the OMNI PLUS can be represented in analogue format at a vertical scale best suited for data presentation. The operator can selectively output in analogue and/or digital format, up to 10 of the following parameters:

- vertical in phase
- vertical quadrature
- VLF total field strength (or optional horizontal amplitude)
- dip angle
- Fraser filtered data
- ellipticity
- apparent resistivity
- phase angle
- magnetic total field strength
- magnetic vertical gradient

• Computer Interface

The OMNI PLUS can transfer uncorrected, corrected or filtered data to most computers with a RS232C port. In some cases, a DCA-100 Data Communications Adaptor may be required. Computers with collection packages including either "X-ON, X-OFF" or "ENQ/ACK" communications protocol formats are also compatible.

Specifications

Frequency Tuning Range	15 to 30 kHz, with bandwidth of 150 Hz; tuning range accommodates new Puerto Rico station at 28.5 kHz.
Transmitting Stations Measured	Up to 3 stations can be automatically measured at any given grid location within frequency tuning range.
Recorded VLF Magnetic Parameters	Vertical in phase, vertical quadrature (out-of-phase), total field strength (or optional horizontal amplitude), dip angle.
Standard Memory Capacity	1300 combined VLF magnetic and VLF electric measurements as well as gradiometer and magnetometer readings.
Display	Custom designed, ruggedized liquid crystal display with built-in heater and an operating temperature range from -40°C to +55°C. The display contains six numeric digits, decimal point, battery status monitor, signal strength status monitor and function descriptors.
RS232C Serial I/O Interface	Variable baud rate from 300 to 9600 baud, 8 data bits, 2 stop bits, no parity.
Test Mode	A. Diagnostic Testing (data and programmable memory). B. Self Test (hardware).
Sensor Head	Contains 3 orthogonally mounted coils with automatic tilt compensation.
Operating Environmental Range	-40°C to +55°C; 0 - 100% relative humidity; Weatherproof.
Power Supply	Non magnetic rechargeable sealed lead acid 18V DC battery cartridge or belt; 18V DC disposable battery belt; 12V DC external power source for base station operation only.
Weights and Dimensions	
Instrument Console	3.8 kg, 122 x 246 x 210 mm.
Sensor Head	0.9 kg, 140 dia. x 130 mm.
VLF Electronics Module	1.7 kg, 280 x 190 x 60 mm.
Lead Acid Battery Cartridge	1.8 kg, 138 x 95 x 75 mm.
Lead Acid Battery Belt	1.8 kg, 540 x 100 x 40 mm.
Disposable Battery Belt	1.2 kg, 540 x 100 x 40 mm.

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EDA Omni IV

Total Field and Gradient Magnetometer

Specifications

Dynamic Range	18,000 to 110,000 gammas. Roll-over display feature suppresses first significant digit upon exceeding 100,000 gammas.
Tuning Method	tuning value is calculated accurately utilizing a specially developed tuning algorithm
Automatic Fine Tuning	$\pm 15\%$ relative to ambient field strength of last stored value
Display Resolution	0.1 gamma
Processing Sensitivity	± 0.02 gamma
Statistical Error	0.01 gamma
Resolution	
Abosulte Accurance	± 1 gamma at 50,000 gammas at 23°C ± 2 gamma over total temperature range
Standard Memory Capacity	
Total Field or Gradient Tie-Line Points	1,200 data blocks or sets of readings 100 data blocks or sets of readings
Base Station Display	5,000 data blocks or sets of readings Custom-designed, ruggedized liquid crystal display with an operating temperature range from -40°C to +55°C. The display contains six numeric digits, decimal point, battery status monitor, signal decay rate and signal amplitude monitor and function descriptors.
RS 232 Serial 1/0	2400 baud, 8 data bits, 2 stop bits, no parity
Gradient Tolerance	6,000 gammas per meter (field proven)
Test Mode	A. Diagnostic testing (data and programmable memory.) B. Self Test (hardware)

Sensor	Optimized miniature design. Magnetic cleanliness is consistent with the specified absolute accuracy.
Gradient Sensors	0.5 meter sensor separation (standard), normalized to gammas/meter. Optional 1.0 meter sensor separation available. Horizontal sensors optional.
Sensor Cable connector	Remains flexible in temperature range specified, includes strain-relief
Cycling Time (Base Station Mode)	Programmable from 5 seconds up to 60 minutes in 1 second increments
Operating Environment Range humidity;	-40°C to +55°C; 0-100% relative weatherproof
Power Supply lead-acid	Non-magnetic rechargeable sealed battery cartridge or belt; rechargeable NiCad or Disposable battery cartridge or belt; or 12V DC power source option for base station operation
Battery Cartridge/Belt Life	2,000 to 5,000 readings, for sealed lead acid power supply, depending upon ambient temperature and rate of readings

APPENDIX B

TOTAL FIELD MAGNETIC READINGS

FAWCETT TOWNSHIP PROPERTY

VLF
 PROPERTY: FAUCETT TWP. CLAIMS
 BY: DAN PATRIE
 INSTRUMENT: OMNI-PLUS
 STATION: 24.0 CUTLER MAINE

LINE	STATION	I/P	O/P	4-FRA	5-FRA
0	400	-0.8	6.7		
0	375	-3.2	5.5		
0	350	-4.7	5.6		
0	325	-4.5	6.3	-3.1	
0	300	-3.7	7.5	-0.2	-1.7
0	275	-3.9	8.6	1	0.4
0	250	-5.9	8.5	-0.9	0
0	225	-7.2	8	-3.2	-2.1
0	200	-7.7	7.3	-2.9	-3.1
0	175	-7.1	7.3	-1	2.5
0	150	-5.7	7.1	1.1	2.5
0	125	-4.8	6.5	2.5	2.8
0	100	-3.9	5.8	2.5	2.5
0	75	-2.1	5.2	2.6	2.6
0	50	-1.3	4.5	3	2.5
0	25	0.1	3.6	2.7	2.8
0	0	1.7	3	2.9	2.8
400	-450	3	-5.6		
400	-425	3.3	-6.9		
400	-400	3.2	-6.7		
400	-375	3	-6.5	0	
400	-350	2.5	-5.5	0.5	0.2
400	-325	1	-4	1.6	1
400	-300	-1.4	-1.8	3.4	2.5
400	-275	-3.9	1.1	4.9	4.1
400	-250	-6.2	4.3	5.4	5.1
400	-225	-8.6	8.1	5.4	5.4
400	-200	-14.3	11	7.3	6.3
400	-175	-20	13.2	11	9.1
400	-150	-24.7	14	12.2	11.6
400	-125	-25.8	15	8.9	10.5
400	-100	-25.2	14.9	3.3	6.1
400	-75	-23.1	14	-1.2	1
400	-50	-15.8	14.1	-6.5	-3.9
400	-25	-10.8	13.7	-12	-9.3
400	0	-4.9	13.4	-13.1	-12.6
400	25	-3.7	12.1	-10.2	-11.7
400	50	-7.7	10.4	-2.4	-6.3
400	75	-12.2	9.2	6.4	2
400	100	-12.5	9.2	7.5	6.9
400	125	-8.7	9.5	0.7	4.1
400	150	-6.1	9.2	-5.6	-2.5
400	175	-6.9	8.4	-4.6	-5.1
400	200	-6.5	7.5	-0.8	-2.7
400	225	-5.4	7	-0.6	-0.7
400	250	-4.4	6.4	-0.2	-1.0

400	275	-0.4	7	-4.1	-3.1
400	300	4.4	8.4	-7.9	-6
400	325	7.3	8	-9.3	-8.6
400	350	2.3	6.3	-3.1	-6.2
400	375	-0.8	4.9	5.7	1.3
400	400	0.1	5.3	5.8	5.7
400	425	2	5.7	-0.2	2.8
400	450	3.1	5.3	-3.3	-1.8
400	475	3.4	4.8	-2.6	-3
400	500	4.9	4.3	-1.8	-2.2
800	800	8.9	-0.5		
800	750	11.7	0.7		
800	800	9.4	-0.7		
800	800	10.7	-0.1		
800	775	11.1	0.7	-0.1	
800	750	11.5	1.1	1	0.4
800	725	9.3	1.9	0.3	0.6
800	700	3	0.8	-5.9	-2.8
800	675	-1.5	-0.1	-11	-8.5
800	650	-0.7	0.4	-8.2	-9.6
800	625	4.9	2.7	1.5	-3.4
800	600	2.8	2.7	5.6	3.5
800	575	-2.4	1.7	-2.1	1.7
800	550	-9.1	0.8	-10.9	-6.5
800	525	-11.9	0.6	-12.3	-11.6
800	500	0.2	2.2	-0.2	-6.3
800	475	8	4.2	16.6	8.2
800	450	11.5	5	17.7	17.1
800	425	11.8	6.3	8.6	13.1
800	400	12.1	7.3	2.6	5.6
800	375	9.8	7.6	-0.7	0.9
800	350	7.6	7.6	-3.7	-2.2
800	325	5.2	7.6	-5.2	-4.5
800	300	4.9	7.8	-4.1	-4.7
800	275	3.1	8.1	-2.7	-3.4
800	250	0.3	7.6	-3.8	-3.3
800	225	-3.3	7.1	-6.3	-5.1
800	200	-3.5	8.7	-5.9	-6.1
800	175	-6.2	8	-3.8	-4.9
800	150	-2.9	11.8	-1.2	-2.5
800	125	-4.3	13.7	1.4	0.1
800	100	-9.8	13.2	-3	-0.8
800	75	-13.4	15	-9.1	-6.1
800	50	-20.8	12.2	-11.2	-10.2
800	25	-23.5	11.9	-11.7	-11.5
800	0	-24.5	13.4	-7.6	-9.7
800	-25	-26.7	14.7	-3.7	-5.7
800	-50	-25.6	15.2	-3.1	-4.7
800	-75	-24.5	12.8		
800	-100	-27	13.7		
800	-125	-20.3	11.9		
800	-150	-4.9	9.1	14.5	
800	-175	-2.9	6.8	22.2	18.3
800	-200	-3.1	5.7	11	16.6
800	-225	2.8	3	4.3	7.6
800	-250	7.8	6.8	9.2	6.8

800	-275	16.4	-5	13.8	11.5
800	-300	22.6	-7.1	16	14.9
800	-325	21.1	-5.9	10.9	13.4
800	-350	12.2	-5.9	-3.2	3.8
800	-375	8.7	-5.9	-12.8	-8
800	-400	2.6	-5.9	-12.4	-12.6
800	-425	0.4	-5.1	-10.1	-11.3
800	-450	3.2	-8.9	-8	-9.1
800	-475	5.9	-14	-0.1	-4.1
800	-500	8.7	-16.8	10	4.9
800	-525	7.7	-9.4	7.8	8.9
800	-550	8	-6.4	0.5	4.1
800	-575	-0.5	-5.3	-5.2	-2.4
1000	-575	10.7	-5.8	11.2	16.9
1000	-550	22.3	-8.9	22.7	12.6
1000	-525	16.4	-3.9	2.6	3.3
1000	-500	-3.4	2.6	4	13.5
1000	-475	1.8	6.4	23	15.9
1000	-450	6.6	8.2	8.9	-1.7
1000	-425	-15.3	5.6	-12.2	-12.1
1000	-400	-16.8	4.8	-11.9	-9.3
1000	-375	-7.6	4.7	-6.6	-6.9
1000	-350	-2.9	3.6	-7.2	-10.5
1000	-325	-0.5	2	-13.8	-15.8
1000	-300	1.5	0.5	-17.8	-15.9
1000	-275	8	0.8	-13.9	-11.3
1000	-250	17.6	2.2	-8.7	-5.3
1000	-225	23.5	-1.7	-1.8	14.3
1000	-200	27.1	-4.7	30.5	40.4
1000	-175	30.1	-6.3	50.3	32.6
1000	-150	24	-2.9	14.9	
1000	-125	-21.5	8.5		
1000	-100	-18.8	10.3		
1000	-75	-18.8	10.4		
1000	-50	-19.4	10.6		
1000	-25	-18.1	12.3	-0.1	
1000	0	-14.8	12.5	-2.9	-1.5
1000	25	-10.3	12	-6.8	-4.9
1000	50	-6.2	11.6	-9.2	-8
1000	75	-9.1	10.9	-5.6	-7.4
1000	100	-7.8	8.6	0.2	-2.7
1000	125	-6.1	8.8	-0.8	-0.3
1000	150	-4.3	8.9	-3.7	-2.3
1000	175	-4.2	7.5	-3.1	-3.4
1000	200	-4.9	6.6	-0.7	-1.9
1000	225	-4.3	6	0.5	-0.1
1000	250	-2.6	6.1	-1.3	-0.4
1000	275	-1.1	5.8	-3.3	-2.3
1000	300	0.2	6.3	-3.4	-3.4
1000	325	1	5.2	-2.6	-3
1000	350	4.3	4.4	-3.4	-3
1000	375	7.7	3.1	-6.2	-4.8
1000	400	8.8	2.9	-6.5	-6.4
1000	425	8.2	2.7	-2.9	-4.7
1000	450	3.5	2.8	2.7	-0.1
1000	475	8.2	2.8	2.6	-6.4

1000	500	-9.1	3.9	13.8	11.7
1000	525	-16.8	3.9	14.8	14.3
1000	550	-24.7	3	16.3	15.5
1000	575	-30.6	1.6	16.2	16.2
1000	600	-28.6	1.6	9.5	12.8
1000	625	-23.6	1.8	-1.8	3.8
1000	650	-19.9	1.7	-8.4	-5.1
1000	675	-17.6	0.9	-7.8	-8.1
1000	700	-15.1	0.1	-5.9	-6.9
1000	725	-11.4	0.6	-6.2	-6.1
1000	750	-8.5	0.3	-7.2	-6.7
1000	775	-5.7	0.4	-7	-7.1
1000	800	-3.8	0	-6	-6.5
1000	825	-0.3	1.2	-5.8	-5.9
1000	850	2.6	0.9	-6.8	-6.3
1000	875	4.5	1.4	-6.4	-6.6
1000	900	6	1.5	-4.6	-5.5
1000	925	6.7	1.6	-3.1	-3.9
1000	950	9.8	1.7	-3.4	-3.3
1000	975	8.1	1.5	-3	-3.2
1000	1000	5.7	0	1.6	-0.7
1000	1025	4.9	0	4.2	2.9
1000	1050	-1.2	-0.9	5.7	4.9
1000	1075	-7	-1.1	10.7	8.2
1000	1100	-8.4	-1	10.9	10.8
1200	1200	4.2	-1.3		
1200	1175	3.9	-1.2		
1200	1150	10.2	-0.7		
1200	1125	14.5	-0.5	9.4	
1200	1100	16.8	0	9.7	9.5
1200	1075	16.7	0.4	4.9	7.3
1200	1050	16.3	0.7	1	2.9
1200	1025	15.1	1.2	-1	0
1200	1000	13.3	1.6	-2.5	-1.8
1200	975	11.3	1.5	-3.9	-3.2
1200	950	6.7	0.7	-6	-5
1200	925	1.8	0.2	-9.2	-7.6
1200	900	-0.1	0.7	-9.2	-9.2
1200	875	-2.3	1.5	-6.1	-7.7
1200	850	-3.7	2.5	-4.4	-5.3
1200	825	-7.4	1.9	-5	-4.7
1200	800	-10.8	2.2	-6.9	-6
1200	775	-13.8	2.4	-7.6	-7.3
1200	750	-16	3.2	-6.6	-7.1
1200	725	-17.1	3.6	-4.9	-5.8
1200	700	-17.5	4.1	-2.7	-3.8
1200	675	-17.8	4.8	-1.2	-2
1200	650	-16.6	5.2	0.1	-0.6
1200	625	-13.6	4.7	2.9	1.5
1200	600	-13.8	4.6	4	3.4
1200	575	-4.9	3.8	6.5	5.2
1200	550	3.5	3.2	14.7	10.6
1200	525	9.8	2.7	18.2	16.4
1200	500	12.8	2	13.7	15.9
1200	475	8.4	1	4.5	9.1
1200	450	7.1	0.4	4.1	8.2

1200	425	8.5	0.3	-3.3	-3.7
1200	400	11.5	0.6	2.5	-0.4
1200	375	13.5	1.3	5.4	3.9
1200	350	13	2.1	3.8	4.6
1200	325	11.8	2.5	-0.1	1.8
1200	300	10.6	3	-2.4	-1.3
1200	275	6.7	2.7	-4.3	-3.4
1200	250	3.9	2.7	-6.7	-5.5
1200	225	2.4	4.2	-6.3	-6.5
1200	200	0.1	4.6	-4.6	-5.5
1200	175	-0.9	5	-3.9	-4.3
1200	150	-1.4	5.3	-2.7	-3.3
1200	125	-1	5.9	-1	-1.9
1200	100	-1.2	6.8	0	-0.5
1200	75	0	7.3	0.7	0.3
1200	50	3.6	7.5	3.3	2
1200	25	5.8	7.4	6	4.6
1200	0	8.5	7.4	6.1	6
1200	-25	8.6	6.2	4.4	5.2
1200	-50	9.3	6.2	2.1	3.2
1200	-75	10.2	6.7	1.4	1.7
1200	-100	9	6.8	0.7	1
1200	-125	8.6	6.8	-1.1	-0.2
1200	-150	8.6	7.1	-1.1	-1.1
1200	-175	9.5	8.1	0.3	-0.4
1200	-200	7.7	8.7	0	0.1
1200	-225	6.1	9.4	-2.4	-1.2
1200	-250	2.1	9.7	-5.1	-3.8
1200	-275	-2.7	9.3	-8.2	-6.7
1200	-300	-5.8	9.4	-9.5	-8.9
1200	-325	-29.5	11.7	8.3	17.7
1200	-350	-34.6	14.6	27.1	31.5
1200	-375	-30.9	17.7	35.9	26.6
1200	-400	-17.9	16.2	17.4	2.9
1200	-425	1.7	7.7	-11.6	-15
1200	-450	13.6	9.6	-18.3	-16.6
1200	-475	1.1	9.4	-14.9	-10.4
1200	-500	-6.2	7.4	-5.9	4
1200	-525	-11.4	5.2	13.9	14.7
1200	-550	-20	3.6	15.5	8.2
1200	-575	-8.1	3.9	0.9	
1200	-600	1.3	-0.5		
1200	-625	-1.9	-2.3		
1200	-650	-3.6	-1.5		
1400	-750	4.3	-9.3		
1400	-725	6.2	-7.5		
1400	-700	-4.5	-4.2		
1400	-675	-6.7	-2.7	12.3	
1400	-650	-1.8	-2.3	5.7	9
1400	-625	-1.1	0	-4.8	0.4
1400	-600	-2.6	5.8	-2.7	-3.8
1400	-575	-7.3	13.8	4	0.6
1400	-550	-16.5	20.9	11.3	7.6
1400	-525	-24	21.6	16.7	14
1400	-500	-24.4	21.2		
1400	-475	-25	20		

1400	-450	-25	19.8	0.8	
1400	-425	-23.5	19.1	-0.5	0.1
1400	-400	-22.7	18.3	-2.1	-1.3
1400	-375	-19.3	17.9	-3.6	-2.9
1400	-350	-17.5	17.1	-5.1	-4.4
1400	-325	-17.4	16.1	-3.8	-4.5
1400	-300	-10.8	16.7	-4.7	-4.3
1400	-275	-6.5	12.4	-9.9	-7.3
1400	-250	-4.3	9.6	-10	-10
1400	-225	-0.7	7.8	-7.1	-8.6
1400	-200	-1.8	5.2	-4.7	-5.9
1400	-175	2.1	5.3	-3	-3.9
1400	-150	5.4	5.9	-5.7	-4.4
1400	-125	9.4	6.2	-8.2	-7
1400	-100	9.8	5.9	-6.6	-7.4
1400	-75	4	4.5	0.5	-3.1
1400	-50	-0.5	4.2	8.9	4.7
1400	-25	-1.7	4.3	9.2	9
1400	0	-5.6	3.9	6.2	7.7
1400	25	-9.1	3.6	7	6.6
1400	50	-7.9	3.3	5.4	6.2
1400	75	-4.8	4	-1.1	2.1
1400	100	-3.6	4.3	-4.9	-3
1400	125	-4.8	3.9	-2.5	-3.7
1400	150	-6.6	3.6	1.7	-0.4
1400	175	-6.7	4.3	2.8	2.2
1400	200	-11.3	4.2	3.8	3.3
1400	225	-9.5	5.1	4.3	4
1400	250	-7.1	5.1	-0.7	1.8
1400	275	-7.7	4.5	-3.3	-2
1400	300	-6.9	4.1	-1.2	-2.3
1400	325	-3.9	3.6	-2.4	-1.8
1400	350	-4.1	3.2	-3.8	-3.1
1400	375	-7.7	2.7	0.6	-1.6
1400	400	-11.3	2.2	6.3	3.4
1400	425	-9.5	2	5.1	5.7
1400	450	-5	2	-2.6	1.2
1400	475	-0.8	2	-8.6	-5.6
1400	500	4.1	2.2	-10.1	-9.4
1400	525	6.6	2.5	-9.3	-9.7
1400	550	3.2	2	-3.7	-6.5
1400	575	-1.8	3.2	5.3	0.8
1400	600	-7.7	4	11	8.1
1400	625	-13.4	5.9	12.8	11.9
1400	650	-20	7.4	13.5	13.1
1400	675	-25.6	8.5	13.6	13.5
1400	700	-28.6	8.9	11.3	12.4
1400	725	-30.5	8.7	7.2	9.2
1400	750	-28.5	8.8	2.6	4.9
1400	775	-25.2	8	-2.8	-0.1
1400	800	-19.6	8.2	-7.6	-5.2
1400	825	-15.5	6.8	-10.1	-8.9
1400	850	-12.9	5.9	-9.1	-9.6
1400	875	-9.6	5.3	-7.2	-8.2
1600	950	-9.1	7.3		
1600	925	-9.4	7.7		

1600	900	-6.9	8.6		
1600	875	-5	8.6	3.8	
1600	850	-3.5	8.8	4.4	4.1
1600	825	-2.5	8.2	3.3	3.8
1600	800	-0.3	7.2	3.3	3.3
1600	775	1.1	5.5	3.9	3.6
1600	750	2	4.3	3.2	3.5
1600	725	4	2.5	2.9	3
1600	700	4.5	0.4	3.1	3
1600	675	6.2	-2	2.6	2.8
1600	650	7.7	-4.6	3.1	2.8
1600	625	9.5	-6.7	3.8	3.4
1600	600	11.2	-8.5	3.9	3.8
1600	575	14.7	-8.9	4.9	4.4
1600	550	19.9	-9.1	7.7	6.3
1600	525	25.6	-8.2	10.8	9.2
1600	500	26.6	-8.4	9.7	10.2
1600	475	23.9	-8.6	2.8	6.2
1600	450	18.5	-8.3	-5.4	-1.3
1600	425	11.9	-7.5	-11.2	-8.3
1600	400	7.5	-5.6	-12.9	-12.1
1600	375	4.9	-3.9	-10.1	-11.5
1600	350	2.2	-1.8	-6.8	-8.5
1600	325	-0.7	-0.1	-6.1	-6.5
1600	300	-2	0.3	-5.6	-5.9
1600	275	-1.2	0.7	-2.7	-4.2
1600	250	1.5	-0.3	1.6	-0.6
1600	225	6.2	-1	6.1	3.8
1600	200	10.3	-1.6	9.3	7.7
1600	175	12.9	-1.5	8.9	9.1
1600	150	12.4	-0.2	4.9	6.9
1600	125	9	-0.5	-1.1	1.9
1600	100	6.2	0.3	-5.7	-3.4
1600	75	5.9	1.1	-5.2	-5.5
1600	50	5.7	0.9	-2	-3.6
1600	25	4.9	0.8	-0.9	-1.5
1600	0	5.2	0.8	-0.8	-0.9
1600	-25	5.1	0.9	-0.1	-0.5
1600	-50	4.9	1.1	-0.1	-0.1
1600	-75	7.2	1.4	1	0.4
1600	-100	11.7	2.2	5	3
1600	-125	13.8	2.6	7.5	6.2
1600	-150	15.7	4	6	6.7
1600	-175	16.3	6.4	3.7	4.8
1600	-200	12.1	6.6	-0.6	1.5
1600	-225	7.2	6.9	-7.1	-3.9
1600	-250	2.9	7.5	-10.4	-8.8
1600	-275	-0.9	8.6	-9.9	-10.2
1600	-300	-7.5	8.8	-10.4	-10.2
1600	-325	-10.5	10	-11.3	-10.9
1600	-350	-13.5	10.5	-9	-10.2
1600	-375	-13.8	11.3	-5.3	-7.2
1600	-400	-10	12.2	0.2	-2.6
1600	-425	-5	13.4	6.9	3.5
1600	-450	-0.8	14	10.2	8.5
1600	-475	-0.4	14.7	9.4	8.2

1600	-500	-0.1	13.8	3.5	5.9
1600	-525	-0.8	12.7	-0.3	1.6
1600	-550	-0.7	11.5	-1.1	-0.7
1600	-575	-0.6	11.3	-0.2	-0.7
1600	-600	-0.3	11.4	0.5	0.1
1600	-625	-7.3	5.9	0.7	-1.6
1600	-650	-3.9	2.4	-3.9	-0.3
1600	-675	-2.9	0.4	3.3	8.5
1600	-700	-7	-2.3	13.8	13
1600	-725	-6.6	-4.5	12.3	8
1600	-750	2.5	-9.5	3.8	1.4
1600	-775	8.3	-12.8	-0.9	-1.9
1600	-800	9.2	-14.1	-2.8	-4.5
1600	-825	8.1	-14.5	-6.1	
1600	-850	7.9	-13.5		
1600	-875	4.6	-12.6		
1600	-900	0.8	-13		
1800	750	0.7	0.6		
1800	725	1.2	-0.2		
1800	700	1.2	-0.3		
1800	675	3	-1.5	1.3	
1800	650	4.6	-3	2.9	2.1
1800	625	6.2	-4	3.7	3.3
1800	600	6.9	-4.3	3.1	3.4
1800	575	8.8	-4.3	2.8	2.9
1800	550	11.2	-4	4	3.4
1800	525	12	-3.7	4.3	4.1
1800	500	13.1	-3.1	2.8	3.5
1800	475	13.5	-1.3	1.9	2.3
1800	450	10	-0.2	-0.8	0.5
1800	425	1.8	0.2	-8.4	-4.6
1800	400	-6.1	0	-15.9	-12.2
1800	375	-13.6	0.9	-17.9	-16.9
1800	350	-18.3	2	-15.6	-16.8
1800	325	-17.2	2.6	-8.9	-12.3
1800	300	-15.9	2.5	-0.6	-4.8
1800	275	-9.6	-0.4	5.7	2.5
1800	250	-6	-0.3	9.9	7.8
1800	225	-2	-1.3	9.9	9.9
1800	200	-0.5	-2	7.4	8.6
1800	175	2.8	-3.7	5.8	6.6
1800	150	5.5	-5.4	6.1	5.9
1800	125	6.8	-6	5.7	5.9
1800	100	6.6	-5.8	2.9	4.3
1800	75	7.3	-5.2	0.8	1.8
1800	50	8.3	-4.6	1.2	1
1800	25	7	-4.2	0.9	1
1800	0	8.6	-3.3	0.1	0.5

OBL	1800	-8.5	5.9		
OBL	1825	-10.2	5.5		
OBL	1850	-10.7	5.7		
OBL	1875	-8.7	5.9	0.5	
OBL	1900	-5.4	6	-3.8	-1.7
OBL	1925	-2.7	5.8	-6.5	-5.2
OBL	1950	1.1	5.9	-7.2	-6.9
OBL	1975	2.7	6.1	6.7	7

OBL	1975	2.7	8.1	8.7	7
OBL	2000	2.1	6.5	-3.6	-5.2
OBL	2025	3.1	6.8	-0.8	-2.2
OBL	2050	1.5	7	0.1	-0.4
OBL	2075	-10.7	8	8.1	4.1
OBL	2100	-15.8	9.3	17.7	12.9
OBL	2125	-16.9	9.8	13.4	15.5
OBL	2150	-16.1	10.6	3.6	8.5
OBL	2175	-12.7	10.7	-2.3	0.6
OBL	2200	-8.5	10.8	-6.6	-4.5
OBL	2225	-3.7	10.4	-9.3	-8
OBL	2250	0.9	10.3	-10.5	-9.9
OBL	2275	3.3	9.8	-9.4	-10
OBL	2300	6.1	9.5	-7	-8.2
OBL	2325	7.7	9.1	-5.5	-6.3
OBL	2350	7.9	8.8	-3.5	-4.5
OBL	2375	7.8	8.2	-1.1	-2.3
OBL	2400	7.8	7.9	0	-0.6
OBL	2425	4.9	7.6	1.8	0.9
OBL	2450	4.3	8	3.7	2.7
OBL	2475	3.6	8.1	2.8	3.2
OBL	2500	7.7	9.7	-1.2	0.8
OBL	2525	14.2	11.2	-8.1	-4.7
OBL	2550	21.9	11.2	-14	-11.1
OBL	2575	14.8	9.7	-8.2	-11.1
OBL	2600	19.4	8.4	1	-3.6
OBL	2625	26.8	8.7	-5.3	-2.2
OBL	2650	28.1	6.6	-11.3	-8.3
OBL	2675	11.1	2.3	4	-3.7
OBL	2700	6.8	2.6	20.5	12.2
OBL	2725	5.8	2.2	14.8	17.6
	2700	-125	-11.2	0.7	
	2700	-100	-10.6	0.9	
	2700	-75	-10.3	0.5	
	2700	-50	-12.1	0.3	0.5
	2700	-25	-9.9	-0.5	0.7
	2700	0	-8.6	-2.6	-2.2
	2700	25	-3.8	-4.3	-5.5
	2700	50	-1.5	-6.4	-7.5
	2700	75	2.9	-7.6	-7.9
	2700	100	3.3	-7.6	-6.7
	2700	125	-0.6	-6.2	-0.8
	2700	150	-2.8	-4.6	5.5
	2700	175	-2.9	-2.7	4.8
	2700	200	-5.1	-0.9	2.6
	2700	225	-5.2	-0.2	2.7
	2700	250	-3.5	0.5	0.5
	2700	275	-1.3	1.5	-3.2
	2700	300	-2	207.6	-3.5
	2700	325	-4.5	5.1	0.6
	2600	350	3.7	-0.1	
	2600	325	4.5	-2.1	
	2600	300	4.9	-3.1	
	2600	275	1.2	-4.2	-1.1
	2600	250	-0.4	-4.3	-4.8
	2600	225	1.2	-5.4	-3
	2600	200	5.2	-1.9	-3.9

2600	175	10.1	-10	7.4	4.9
2600	150	16.9	-10.7	12.4	9.9
2600	125	28.1	-9.2	17.4	14.9
2600	100	33.9	-5.9	19.1	18.2
2600	75	26.6	-2.5	8.3	13.7
2600	50	4.1	-9.2	-17.2	-4.5
2600	25	-5.8	-8.2	-34.6	-25.9
2600	0	-19.4	-7.8	-31.4	-33
2600	-25	-29.9	-7.2	-26.5	-29
2600	-50	-36.5	-5.9	-22.4	-24.5
2600	-75	-33.8	-2.8	-11.2	-16.8
2600	-100	-21.9	-0.2	5.6	-2.8
2600	-125	-19	0.7	15.7	10.6
2600	-150	-21	0.5	8.5	12.1
2600	-175	-14.3	0.3	3.1	5.8
2500	-225	13.6	-3.4		
2500	-200	21.7	-3.1		
2500	-175	13.9	-4.1		
2500	-150	2.2	-3.4	10.8	
2500	-125	-3.8	-1.4	21	15.9
2500	-100	-19.3	-1.8	22.1	21.5
2500	-75	-23.5	-3.8	23.2	22.6
2500	-50	-19.4	-5.4	11.1	17.1
2500	-25	-17.2	-7.5	-3.5	3.8
2500	0	-11.1	-10.6	-8.1	-5.8
2500	25	5	-10.2	-17.2	-12.7
2500	50	20.3	-7.5	-30.3	-23.8
2500	75	40.8	-3	-37	-33.7
2500	100	34.2	-5.1	-26.7	-31.9
2500	125	15.2	-12	6.2	-10.3
2500	150	17.9	-14.5	22.3	14.2
2500	175	223.7	-15.2	-198.2	-88
2500	200	17	-14.4	-206.4	-202.3
2500	225	9	-14.1	210.9	2.2
2500	250	3.5	-11.8	218	214.4
2500	275	2.2	-10	11.5	114.7
2500	300	3.3	-7	4	7.7
2500	325	0	-5.6	1.3	2.6
2500	350	-1.6	-3.8	4	2.6
2500	375	-2.6	-2.4	4.3	4.1
2500	400	-1.2	0.3	1.2	2.7
2500	425	-0.5	2	-1.6	-0.2
2500	450	-0.6	4.1	-1.6	-1.6
2500	475	-0.8	5.7	-0.1	-0.9
2500	500	-2.8	7.6	1.5	0.7
2500	525	-3.8	8.7	3	2.2
2500	550	-2.6	9.9	1.5	2.2
2500	575	-0.8	11.8	-1.9	-0.2
2400	750	10.8	-3.8		
2400	725	13	-2.6		
2400	700	13.6	-1.9		
2400	675	14.8	0	2.6	
2400	650	12	0.9	0.1	1.3
2400	625	6.9	2.1	-5.4	-2.7
2400	600	3.6	2.8	-9.2	-7.3
2400	575	1.6	2.5	-7.7	-5.5

2400	550	2.8	1.4	-3.5	-5.6
2400	525	4.2	0.6	1	-1.3
2400	500	4.3	0.5	2.3	1.6
2400	475	3	-0.1	0.1	1.2
2400	450	2.4	0	-1.8	-0.9
2400	425	-1.4	0	-3.6	-2.7
2400	400	-5.9	-0.4	-7.2	-5.4
2400	375	-4.5	-1.1	-6.4	-6.8
2400	350	-2.9	-3.4	0.1	-3.2
2400	325	0	-6.9	4.3	2.2
2400	300	7.4	-9.2	8.3	6.3
2400	275	16.8	-216.9	14.5	11.4
2400	250	19.9	-14.3	15.7	15.1
2400	225	27.6	-15	13.7	14.7
2400	200	37.1	-15.5	15.8	14.7
2400	175	26	-17.7	8.2	12
2400	150	16.7	-16.2	-11.7	-1.8
2400	125	9.5	-15	-19.9	-15.8
2400	100	5	-13.5	-15.8	-17.9
2400	75	0	-12.1	-12.1	-14
2400	50	-1.9	-10.3	-9.3	-10.7
2400	25	-4.2	-8.7	-6.3	-7.8
2400	0	-6.9	-6.7	-5.2	-5.8
2400	-25	-7.8	-5.6	-4.8	-5
2400	-50	-8.2	-4.5	-2.7	-3.8
2400	-75	-6.2	-4.1	0.2	-1.3
2400	-100	-1.6	-4.6	4.6	2.4
2400	-125	5.6	-4.9	10.4	7.5
2400	-150	13.6	-5.4	15.3	12.8
2400	-175	12.2	-5.3	12.4	13.8
2400	-200	15.5	-5.1	4.9	8.6
2400	-225	16.8	-4.8	3.6	4.2
2400	-250	9.9	-4.6	-0.7	1.4
2400	-275	3.1	-2.8	-10.9	-5.8
2400	-300	-1	-2.2	-13.8	-12.4
2300	-350	-1.7	-0.9		
2300	-325	-3.6	-1.8		
2300	-300	0	-1.8		
2300	-275	3.1	-1.9	-4.9	
2300	-250	5.1	-2.8	-6.8	-5.9
2300	-225	2.1	-4.6	-2.3	-4.6
2300	-200	-5.2	-5.8	6.5	2.1
2300	-175	-1.2	-6.6	7.7	7.1
2300	-150	2.9	-6.6	-2.8	2.4
2300	-125	7.8	-6	-9.7	-6.3
2300	-100	7.9	-6.5	-8	-8.9
2300	-75	5.1	-6.8	-1.3	-4.7
2300	-50	-3.1	-6.7	7.9	3.3
2300	-25	-9.7	-8.2	14.7	11.3
2300	0	-7.5	-9.9	10.9	12.8
2300	25	-4.8	-10.9	-0.3	5.3
2300	50	-0.3	-12	-6.9	-3.6
2300	75	2.9	-13.7	-8.4	-7.7
2300	100	11.7	-13.8	-11.1	-9.8
2300	125	17.2	-14	-14.9	-13
2300	150	21.5	-14.8	-12.6	-14.2

2300

150

21.5

14.8

13.8

14.3

2300	175	27.4	-14.3	-11.1	-12.4
2300	200	20.9	-13.5	-5.3	-8.2
2300	225	11.9	-13.2	8.9	1.8
2300	250	8.1	-12.9	15.8	12.3
2300	275	4.9	-11.3	11.1	13.4
2300	300	3.3	-8.4	6.6	8.8
2300	325	1.2	-5.2	4.8	5.7
2300	350	-3.5	-3	6	5.4
2300	375	-6.9	-1.6	8.5	7.2
2300	400	-6.4	-0.5	6.2	7.3
2300	425	-6.3	-0.3	1.3	3.7
2300	450	-6.1	-0.4	-0.5	0.4
2300	475	-4.5	-1.1	-1.3	-0.9
2300	500	-1	-1.4	-4	-2.7
2300	525	0.5	-2.9	-5.7	-4.9
2300	550	8.4	-1.6	-8.1	-6.9
2300	575	5.8	-1	-8.3	-8.2
2300	600	209.4	205.7	-205.9	-107.1
2300	625	-1.9	2.7	-198.5	-202.2
2300	650	-9	5	217.2	9.3
2300	675	-13.5	8.1	219.3	218.2
2300	700	-18.3	7.6	11.7	115.5
2300	725	-14.6	7.2	5.9	8.8
2300	750	-5.6	10.1	-6.4	-0.3
2300	775	-2.3	6.7	-14.1	-10.3
2300	800	-1.6	3.9	-9.3	-11.7
2300	825	-1.5	1.7	-2.8	-6.1
2300	850	-2.1	-0.4	-0.2	-1.5
2300	875	-12.3	-17.9	6.5	3.1
2300	900	-11.7	-19.1	11.7	9.1
2300	925	-11.2	-19.6	4.9	8.3
2300	950	-7.8	-22.9	-2.9	1
2300	975	-0.8	-24.6	-8.3	-5.6
2300	1000	17.1	-16.2	-20.1	-14.2
2400	1050	28.6	-5		
2400	1025	20.1	-7		
2400	1000	11.9	-9.3	-16.9	
2400	975	3.5	-11.4	-32	-18.4
2400	950	-5.9	-14.5	-19.4	-18.9
2400	925	-14.4	-17.2	-20.2	-19.8
2400	900	-27.4	-19.8	-22.1	-21.2
2400	875	-23.5	-7.7	-17.1	-19.6
2400	850	-15	-2.7	1.7	-7.7
2400	825	-6	-1.9	16.6	9.1
2400	800	2.9	-3.5	19.9	18.2
2500	600	10.8	22.3		
2500	625	22.8	17		
2500	650	12.4	8.6		
2500	675	7	4.5	8	
2500	700	-5	-0.2	18.7	13.3
2500	725	-2.3	0.4	15.2	16.9
2500	750	17.2	5.7	-7.3	3.9
2500	775	4.8	0	-16.6	-12
2500	800	16.6	3.3	-3.7	-10.2
2500	825	17.4	2.4	-6.9	-5.3
2500	850	9.1	0.9	-4	-1.5

2500	875	-29.7	-9.3	37.6	20.8
2500	900	-33.1	-19.9	42.9	40.2
2500	925	-24.2	-13.6	13.6	28.2
2500	950	-11.3	-12.6	-14.8	-0.6
2500	975	-2.1	-11.6	-24.3	-19.6
2500	1000	3.3	-9	-20.7	-22.5
2500	1025	6.2	-8.2	-13	-16.9
2500	1050	12.8	-6.6	-10.1	-11.6
2500	1075	18.3	-5.4	-12.2	-11.2
2500	1100	22.1	-4.3	-11.9	-12.1
2600	1000	7.6	-4.1		
2600	975	1.2	-5.4		
2600	950	-2.9	-6.5		
2600	925	-0.4	-5.3	-6.9	
2600	900	-15.3	-9	-7.9	-7.4
2600	875	-22.3	-8.8	-19.3	-13.6
2600	850	-7.1	-2.8	-7.6	-13.5
2600	825	10	4.1	22.9	7.6
2600	800	13	7.8	29.6	26.2
2600	775	1.3	3.6	6.4	18
2600	750	-6	1.4	-15.8	-4.7
2600	725	-4.6	3.7	-14.1	-15
2600	700	-5.1	5.3	-2.8	-8.5
2600	675	-6.5	6.4	-0.6	-1.7
2600	650	-12.5	4.3	-5.3	-3
2600	625	9.6	15.3	5	-0.2
2600	600	9.3	18	21.6	13.3
2600	575	-11.4	11.5	0.4	11
2600	550	-22.6	6.4	-30	-14.8
2600	525	-33.1	3.2	-29.8	-29.9
2600	500	-19.2	10.6	-9.9	-19.9
2600	475	-12.2	14	13.3	1.7
2600	450	-8.6	12.4	17.3	15.3
2600	425	-5.1	8.6	9.9	13.6
2600	400	-1.6	5	8	8.9
2600	375	-0.7	3.5	6.5	7.2
2700	375	-6	7.2		
2700	400	-9.7	9.7		
2700	425	-17.4	13.3		
2700	450	-24.6	15.8	14.7	
2700	475	-29.6	15.1	14.9	14.8
2700	500	-51.8	3.3	20.2	17.5
2700	525	-37.8	7.6	17.9	19
2700	550	-23.8	13.3	-9.7	4.1
2700	575	-10.7	17.1	-28.5	-19.2
2700	600	-17.9	9	-17.9	-23.3
2700	625	-36.9	-0.8	10.9	-3.5
2700	650	-25.5	3.7	18.4	14.6
2700	675	-17.9	5.4	-6	6.2
2700	700	-12.1	5.4	-17.6	-11.8
2700	725	-9.8	4.2	-11.9	-14.8
2700	750	-4.5	4.9	-8.8	-10.4
2700	775	0.9	5	-10.4	-9.6
2700	800	10	5	-14.4	-12.4
TL800	2700	-10.3	-7		
TL800	2675	-10.7	-7.9		

TL800	2650	-17.8	-11.5		
TL800	2625	-16.2	-10.5	-7.4	-7.4
TL800	2600	-9.1	-6.9	1.8	-2.8
TL800	2575	-10.7	-6.5	8	4.9
TL800	2550	-10.3	-4.9	2.4	5.2
TL800	2525	-11.5	-4	-1.2	0.6
TL800	2500	-16.7	-3.8	-4.1	-2.7
TL800	2475	-18	-1.3	-7.2	-5.7
TL800	2450	-11.2	1.8	-0.4	-3.8
TL800	2425	-4.7	2.8	10.7	5.1
TL800	2400	0	3.1	13.8	12.2
TL800	2375	2.1	0.7	10.2	12
TL800	2350	1.7	-4.8	4.8	7.5
TL800	2325	0	5	-0.3	2.2
TL800	2300	1.1	-6.7	-1.5	-0.9
200	500	8.6	5.7		
200	475	5.7	5.4		
200	450	6.4	5.6		
200	425	6.7	6	-0.8	
200	400	7.4	5.9	1.1	0.1
200	375	10.6	6.4	2.8	1.9
200	350	15.8	7.7	7	4.9
200	325	21.5	9.7	10.9	8.9
200	300	20.7	11	8.8	9.8
200	275	15.7	9.4	-0.5	4.1
200	250	9.9	7	-9.3	-4.9
200	225	6	6.1	-11.6	-10.5
200	200	2.8	6.3	-9.5	-10.6
200	175	0.8	6.5	-6.9	-8.2
200	150	-0.8	6.5	-4.9	-5.9
200	125	-3.2	6.7	-4.3	-4.6
200	100	-4.1	6.7	-4.2	-4.3
200	75	-2.9	6.7	-1.7	-3
200	50	0.3	6.9	2.6	0.4
200	25	3.2	7.1	5.8	4.2
200	0	8	6.9	7.9	6.8
200	-25	10.2	6.8	8.5	8.2
200	-50	8.1	6.8	4	6.2
200	-75	4.2	6.3	-3.4	0.3
200	-100	0.4	6.1	-7.8	-5.6
200	-125	-3.2	6.9	-8.6	-8.2
200	-150	-2.8	7.6	-6	-7.3
200	-175	-2.9	7.9	-1.6	-3.8
200	-200	-1.5	8.2	1	-0.3
200	-225	-2.9	7.9	0.8	0.9
500	-850	-8	-3.8		
500	-825	-7.9	-3		
500	-800	-6.2	-2.5		
500	-775	-8	-1.8	-0.9	
500	-750	-11.4	-0.7	3.1	1.1
500	-725	-10.8	-0.5	4.6	3.8
500	-700	-11.1	-0.4	1.4	3
500	-675	-10.6	-0.5	-0.4	0.5
500	-650	-10	-0.9	-0.8	-0.6
500	-625	-8.9	-2	-1.5	-1.2
500	-600	-8.1	-2.1	-2	-1.8

500	-575	-9.9	-3.4	-0.6	-1.3
500	-550	-10.2	-3.6	1.7	0.5
500	-525	-10.1	-4.4	1.3	1.5
500	-500	-9.8	-5.5	-0.1	0.6
500	-475	-8.7	-6.4	-1	-0.6
500	-450	-5	-7.4	-3.6	-2.3
500	-425	-1.9	-7.8	-6.6	-5.1
500	-400	-0.7	-7.7	-6.2	-6.4
500	-375	-2.2	-7.1	-2.3	-4.3
500	-350	-2.8	-5.9	1.3	-0.5
500	-325	-5	-4.2	2.8	2
500	-300	-6.5	-1.5	3.7	3.2
500	-275	-11.2	2.2	5.7	4.7
500	-250	-16.5	6.9	9.3	7.5
500	-225	-22.7	11.6	12	10.6
500	-200	-23.4	15.5	10	11
500	-175	-25.7	17	5.4	7.7
500	-150	-25.6	17.7	2.9	4.1
500	-125	-37.2	17	7.2	5
500	-100	-34.8	16.3	10.9	9
500	-75	-32.9	15.3	2.7	6.8
500	-50	-27.7	15	-5.9	-1.6
500	-25	-23.7	15.2	-8.6	-7.3
500	0	-18.2	15.6	-10.1	-9.4
500	25	-13.7	14.6	-10.7	-10.4
500	50	-12.9	13.2	-8.4	-9.6
500	75	-11.3	11.2	-4.3	-6.4
500	100	-13.5	9.8	-1.2	-2.8
500	125	-14.6	8.7	2.1	0.4
500	150	-13.9	8	2.2	2.1
500	175	-13.5	7.2	-0.4	0.9
500	200	-12.7	6.4	-1.4	-0.9
500	225	-10.2	6.7	-2.5	-2
500	250	-6.2	8.3	-5.5	-4
500	275	0.3	9.8	-9.6	-7.6
500	300	0.4	9	-9.6	-9.6
500	325	-2.7	7	-2	-5.8
500	350	-8.2	3.5	6.6	2.3
500	375	-5.9	5.2	6.7	6.6
500	400	-4.4	6.1	-0.4	3.1
500	425	-2.6	5.6	-4.1	-2.3
500	450	-1.4	5.3	-3.6	-3.9
500	475	-0.7	4.7	-2.8	-3.2
500	500	-1.1	3.8	-1.3	-2.1
500	525	0.2	2.9	-0.7	-1
500	550	0.5	2.6	-1.3	-1
500	575	2.9	2.2	-2.3	-1.8
500	600	1.5	1.4	-2.2	-2.3
500	625	0	-0.3	0.9	-0.7
500	650	-2.3	-1.7	3.8	2.3
500	675	-6.2	-3.6	5.7	4.7
700	850	13.9	-1.8		
700	850	14.1	-1.5		
700	825	14.1	-1.6		
700	800	13.2	-1.8		
700	775	13	-1.8		

700	750	17.2	0.3	1.7	0.3
700	725	16.2	-0.1	4.1	2.9
700	700	17	1.8	1.6	2.8
700	675	17.1	1.8	0.3	0.9
700	650	8.1	-0.6	-4.5	-2.1
700	625	2.2	-2.3	-13.5	-9
700	600	1	-1.3	-12.6	-13.1
700	575	5.5	1.9	-2.2	-7.4
700	550	7	2.8	5.4	1.6
700	525	4.9	2.2	3.2	4.3
700	500	3.3	2	-2.4	0.4
700	475	2.3	2.3	-3.6	-3
700	450	2.9	3	-1.8	-2.7
700	425	10.8	4.5	4.5	1.3
700	400	14.2	5.7	11.2	7.8
700	375	13.1	6.3	7.7	9.4
700	350	12.2	6.8	0.2	3.9
700	325	12.1	7.9	-1.7	-0.8
700	300	10.9	8.2	-1.3	-1.5
700	275	7.7	8.1	-3.1	-2.2
700	250	4.6	7.1	-6	-4.6
700	225	2.4	6.9	-6.7	-6.4
700	200	2.4	8	-4.4	-5.6
700	175	-2.4	7.1	-3.9	-4.2
700	150	-1.9	8.1	-5	-4.5
700	125	-2.2	9.2	-2.4	-3.7
700	100	-0.7	10.7	0.7	-0.9
700	75	-1.3	11.1	1.3	1
700	50	-1.1	13.5	0.4	0.8
700	25	-2.1	15.7	-0.7	-0.2
700	0	-5.1	15.2	-2.8	-1.8
700	-25	-11.5	14.4	-7.6	-5.2
700	-50	-17.1	13.7	-12.1	-9.9
700	-75	-24.1	13.5	-13.8	-13
700	-100	-27.3	13.4	-12.5	-13.2
700	-125	-34.1	21.9	21.8	16.5
700	-150	-19.6	20.3	11.3	8.4
700	-175	-8.7	12.2	5.5	4.7
700	-200	-5.4	5.2	3.9	3.8
700	-225	0.3	-2.1	3.7	3.3
700	-250	-1.6	-6.9	3	1.4
700	-275	-0.1	-8.7	-0.1	0.4
700	-300	2	-9.9	1	5.2
700	-325	1.7	-11.2	9.4	14.2
700	-350	0	-12.5	19	20.3
700	-375	5.5	-14.9	21.6	14.2
700	-400	12.9	-16.9	6.8	
700	-425	26.5	-16		
700	-450	30.9	-15.3		
700	-475	20.7	-15		
1100	0	-15.6	6.2		
1100	25	-15.8	6.9		
1100	50	-13	8.1		
1100	75	-10	8.7	-4.7	
1100	100	-9.9	8.6	-5.1	-4.9
1100	125	-9.2	8.1	-5.2	-4.7

APPENDIX C

VLf-EM READINGS

FAWCETT TOWNSHIP PROPERTY

TOTAL FIELD MAG
 FAUCETT TWP CLAIMS
 BY: DAN PATRIE
 REF. FIELD 58000
 BASE STA CORRECTED

LINE	STATION	FIELD	DS
100	400	56270.4	88
100	400	57818.4	88
100	375	57821.6	88
100	350	57831.2	88
100	325	57844.3	88
100	300	57845.3	88
100	275	57849.8	88
100	250	57858	88
100	225	57863.9	88
100	200	57870.2	88
100	175	57882.1	88
100	150	57905	88
100	125	57947	88
100	100	57984.2	88
100	75	58087.4	88
100	50	58128.1	88
100	25	58072.4	88
100	0	58014	88
100	-25	58006.5	88
100	-50	58003.7	88
100	-75	57990.4	88
100	-100	57967.4	88
100	-125	57961.3	88
100	-150	57956	88
100	-175	57969.6	88
100	-200	58010.2	88
300	-325	57965.5	88
300	-300	57973.7	88
300	-275	57958.4	88
300	-250	57947.3	88
300	-225	57951.6	88
300	-200	57952.6	88
300	-175	57944.3	88

300	-150	57942.3	88
300	-125	57956.8	88
300	-100	57976.1	88
300	-75	57991.2	88
300	-50	58031.8	88
300	-25	58169.6	88
300	0	58254.6	88
300	25	58182.1	88
300	50	58257.7	88
300	75	58304.7	88
300	100	58126.9	88
300	125	57910.9	88

300	150	57819	88
300	175	57808	88
300	200	57826.1	88
300	225	57899.5	88
300	250	57821.4	88
300	275	57798.9	88
300	300	57823.3	88
300	325	57834.6	88
300	350	57841.5	88
300	375	57857.6	88
300	400	57889.2	88
300	425	57924	88
300	450	57982.3	88
300	475	58063	88
300	500	58121.2	88
600	700	57964.1	88
600	675	58026.3	88
600	650	57974.2	88
600	625	57997.9	88
600	600	58036.4	88
600	575	57971.7	88
600	550	57867.8	88
600	525	57957.6	88
600	500	57866.2	88
600	475	58023.5	88
600	450	57925.6	88
600	425	57839.3	88
600	400	57802.7	88
600	375	57804.1	88
600	350	57818.6	88
600	325	57804.1	88
600	300	57770.1	88
600	275	57742.4	88
600	250	57798.3	88
600	225	58051.1	88
600	200	58011.6	88
600	175	57984.7	88
600	150	57864.7	88
600	125	57883.8	88
600	100	57935.7	88
600	75	57973.7	88
600	50	58120.7	88
600	25	58310.3	88
600	0	59174.6	88

600	-25	59766.5	88
600	-50	59198.7	88
600	-75	58549.7	88
600	-100	58287.7	88
600	-125	58153.7	88
600	-150	58106.1	88
600	-175	58066.7	88
600	-200	58091.5	88
600	-225	58156.5	88
600	-250	58135.2	88
600	-275	58055.1	88
600	-300	58017.6	88

600	-325	58007	88
600	-350	57981.2	88
600	-375	57971	88
600	-400	57942	88
600	-425	57924.5	88
900	-725	58266.7	88
900	-700	57964.5	88
900	-675	57881	88
900	-650	57872.1	88
900	-625	57868.5	88
900	-600	57871.7	88
900	-575	57903.1	88
900	-550	58039.4	88
900	-525	58155.5	88
900	-500	58036.7	88
900	-475	58040.5	88
900	-450	58010.9	88
900	-425	58014	88
900	-400	58063.2	88
900	-375	58055.3	88
900	-350	58061.2	88
900	-325	58012.6	88
900	-300	58076.6	88
900	-275	58113.1	88
900	-250	58189.3	88
900	-225	58266	88
900	-200	58275.1	88
900	-175	58261.2	88
900	-150	58145.1	88
900	-125	58013.6	88
900	-100	57963.4	88
900	-75	57921.4	88
900	-50	57893.6	88
900	-25	57932.3	88
900	0	57974.6	88
900	25	58074.2	88
900	50	58272.5	88
900	75	58127.8	88
900	100	57947.1	88
900	125	57944.5	88
900	150	57939.7	88
900	175	58025	88
900	200	57971.1	88
900	225	57937.1	88

900	250	57935.1	88
900	275	57943.1	88
900	300	57975.2	88
900	325	57924.9	88
900	350	57846.6	88
900	375	57894.6	88
900	400	57788.9	88
900	425	57814.9	88
900	450	57837.8	88
900	475	57815.2	88
900	500	57820.5	88
900	525	57818.5	88

900	550	57831	88
900	575	57853.1	88
900	600	57867.7	88
900	625	57868.4	88
900	650	57913.1	88
900	675	57946.6	88
900	700	57973.3	88
900	725	58008.2	88
900	750	58056.7	88
900	775	58100.5	88
900	800	58145.4	88
900	825	58145.9	88
900	850	58209.1	88
900	875	58277.2	88
900	900	58299.4	88
900	925	58240.5	88
900	950	58192.1	88
900	975	58163.9	88
900	1000	58167.1	88
1300	1150	57993.8	88
1300	1125	58000.4	88
1300	1100	57995.6	88
1300	1075	57950	88
1300	1050	57945.5	88
1300	1025	57949.4	88
1300	1000	57926.9	88
1300	975	57917.5	88
1300	950	57868	88
1300	925	57834.5	88
1300	900	57838.7	88
1300	875	57821.7	88
1300	850	57828	88
1300	825	57842.5	88
1300	800	57840.6	88
1300	775	57841.5	88
1300	750	57844.2	88
1300	725	57841.2	88
1300	700	57841.1	88
1300	675	57851.5	88
1300	650	57838.8	88
1300	625	57829.9	88
1300	600	57829.6	88
1300	575	57845.7	88
1300	550	57850	88

1300	525	57864.7	88
1300	500	57877.4	88
1300	475	57871.5	88
1300	450	57866.9	88
1300	425	57840.3	88
1300	400	57817.1	88
1300	375	57806	88
1300	350	57808.2	88
1300	325	57856	88
1300	300	57923.9	88
1300	275	57996.8	88
1300	250	57997.1	88

1300	225	57959.8	88
1300	200	57910.6	88
1300	175	57933	88
1300	150	57954.3	88
1300	125	57951.7	88
1300	100	57926.4	88
1300	75	57896.2	88
1300	50	57950	88
1300	25	57997.5	88
1300	0	58119.4	88
1300	-25	58490.3	88
1300	-50	59220.6	88
1300	-75	59046.4	88
1300	-100	58604.1	88
1300	-125	58391.1	88
1300	-150	58293.2	88
1300	-175	58212.2	88
1300	-200	58156.6	88
1300	-225	58132	88
1300	-250	58127.3	88
1300	-275	58123.7	88
1300	-300	58148.2	88
1300	-325	58326.1	88
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1300	-425	57806	88
1300	-450	57784.1	88
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1500	-775	57955.7	88
1500	-750	57874.3	88
1500	-725	57818.4	88
1500	-700	57788.4	88
1500	-675	57778.6	88

1500	-650	57768.6	88
1500	-625	57810.9	88
1500	-600	57845.9	88
1500	-575	57839.9	88
1500	-550	57885.9	88
1500	-525	57918.5	88
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1500	-425	57981.1	88
1500	-400	57964.7	88
1500	-375	57954.9	88

1500	-350	57972.6	88
1500	-325	57973.7	88
1500	-300	57983.8	88
1500	-275	58086.7	88
1500	-250	58013.3	88
1500	-225	57965.6	88
1500	-200	57940.3	88
1500	-175	57968.3	88
1500	-150	57995.8	88
1500	-125	58055.6	88
1500	-100	58039.7	88
1500	-75	57991.7	88
1500	-50	57978.4	88
1500	-25	57980.8	88
1500	0	58021.8	88
1500	25	58098	88
1500	50	58119.2	88
1500	75	58095.3	88
1500	100	58103.8	88
1500	125	58064.5	88
1500	150	58072.7	88
1500	175	58079.5	88
1500	200	58003.6	88
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1500	275	57821.5	88
1500	300	57809.5	88
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1500	350	57815.7	88
1500	375	57822.3	88
1500	400	57824.5	88
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1500	475	57824.8	88
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1500	550	57846.5	88
1500	575	57859.7	88
1500	600	57851.1	88
1500	625	57856.4	88
1500	650	57854.2	88
1500	675	57853	88
1500	700	57850.9	88
1500	725	57863.8	88

1500	750	57816.1	88
1500	775	57802.5	88
1500	800	57818.2	88
1500	825	57793.1	88
1500	850	57742.8	88
1500	875	57772	88
1500	900	57809.8	88
200	500	57972.5	88
200	475	57922.4	88
200	450	57903.1	88
200	425	57884.5	88
200	400	57873.2	88

200	375	57881.4	88
200	350	57899.8	88
200	325	57907.7	88
200	300	57911.7	88
200	275	57878	88
200	250	57860.2	88
200	225	57853.1	88
200	200	57843.7	88
200	175	57860.1	88
200	150	57901.8	88
200	125	58039.2	88
200	100	58350.5	88
200	75	58471.6	88
200	50	58362.4	88
200	25	58269.8	88
200	0	58173.5	88
200	-25	58099.3	88
200	-50	58054.8	88
200	-75	58018.8	88
200	-100	58017.6	88
200	-125	57996.3	88
200	-150	57975.9	88
200	-175	57993.8	88
200	-200	57982.3	88
200	-225	58021.2	88
500	-850	58176.1	88
500	-825	58335.5	88
500	-800	58162.8	88
500	-775	57971.7	88
500	-750	57938.9	88
500	-725	58013.4	88
500	-700	58023.7	88
500	-675	57964.3	88
500	-650	57945.5	88
500	-625	57947.3	88
500	-600	57940.8	88
500	-575	57966.4	88
500	-550	57971.7	88
500	-525	58013.2	88
500	-500	58108.2	88
500	-475	58156.5	88
500	-450	58082.6	88
500	-425	57999.3	88
500	-400	57960.2	88

500	-375	57940.8	88
500	-350	57932.6	88
500	-325	57941.4	88
500	-300	57921.1	88
500	-275	57951.1	88
500	-250	57943.8	88
500	-225	58045.1	88
500	-200	58163.2	88
500	-175	58117.6	88
500	-150	57996.3	88
500	-125	57981.8	88
500	-100	58043	88

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2000	-175	57805	88
2000	-200	57769.7	88
2000	-225	57771.4	88
2000	-250	57752	88

2000	-275	57953.1	88
2000	-300	58675.6	88
2000	-325	58745.4	88
2000	-350	58225.1	88
2000	-375	58082.7	88
2000	-400	58149.8	88
2000	-425	58215.1	88
2000	-450	58222.8	88
2000	-475	58148.5	88
2000	-500	58032.3	88
2000	-525	58028.3	88
2000	-550	58029.2	88

1900	-925	57906.9	88
1900	-900	57872.7	88
1900	-875	57848.2	88
1900	-850	57852.4	88
1900	-825	57864.4	88
1900	-800	57874.7	88
1900	-775	57896	88
1900	-750	57944.7	88
1900	-725	57998.5	88
1900	-700	58007.1	88
1900	-675	57987.1	88
1900	-650	57943.7	88
1900	-625	57992.3	88
1900	-600	58002.1	88
1900	-575	58011.2	88
1900	-550	57994.8	88
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1900	-475	57989.2	88
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1900	-400	57979	88
1900	-375	58047.4	88
1900	-350	58146.8	88
1900	-325	58426	88
1900	-300	58668.3	88
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1900	-225	57785.9	88
1900	-200	57749.7	88
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1900	-75	57896.1	88
1900	-50	57848.6	88
1900	-25	57902	88
1900	0	57929.1	88
1900	25	57964.8	88
1900	50	58047	88
1900	75	58037.2	88
1900	100	57907.2	88
1900	125	57857.6	88
1900	150	57859.7	88

1900	175	57841.3	88
1900	200	57863.8	88
1900	225	57853.9	88
1900	250	57858.4	88
1900	275	57856.3	88
1900	300	57862.4	88
1900	325	57863.1	88
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1900	375	57886.5	88
1900	400	57900.6	88
1900	425	57903	88
1900	450	57915.2	88

1900	475	57952	88
1900	500	57965.4	88
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1900	550	58072.6	88
1900	575	58158.8	88
1900	600	58222.4	88
1900	625	58276.7	88
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1900	675	58546.1	88
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600	-550	58195.3	88
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700	-750	57852	88

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700	-825	57862.6	88
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700	-1050	57908.5	88
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800	-775	57937.5	88

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800	-700	58010.9	88
800	-675	58078.2	88
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800	-625	58121.7	88
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800	-550	58077	88
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900	-725	58208.5	88

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900	-775	57976.3	88
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900	-925	57919.4	88
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900	-975	58282.2	88
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900	-1175	58028	88
900	-1200	58035.2	88
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900	-1250	58038	88
900	-1275	57763.5	88
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1000	-825	57780.8	88
1000	-800	57845.3	88
1000	-775	57986.7	88
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1000	-725	58087	88
1000	-700	57998.5	88

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1000	-550	57895.2	88
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1700	750	58000.5	88
1700	725	58000.5	88
1700	700	57999.9	88
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1700	475	57898.4	88
1700	450	57873.2	88
1700	425	57877.8	88
1700	400	57857.8	88
1700	375	57872.6	88
1700	350	57880.7	88
1700	325	57889.8	88
1700	300	57881.5	88
1700	275	57879.2	88
1700	250	57900.8	88
1700	225	57911.8	88
1700	200	57934	88
1700	175	57992.6	88
1700	150	58046.9	88
1700	125	58170.3	88
1700	100	58091.8	88
1700	75	58054.2	88
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1700	-325	58024.2	88
1700	-350	58023.7	88
1700	-375	58027.1	88
1700	-400	58014.9	88
1700	-425	57968.5	88

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1700	-550	57829.9	88
1700	-575	57829.5	88
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1700	-650	57826.2	88
1700	-675	57837.7	88
1700	-700	57840.6	88
1700	-725	57847.1	88

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1700	-775	57869.6	88
1700	-800	57868.9	88
1800	-825	57843.3	88
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1800	-775	57815.2	88
1800	-750	57803	88
1800	-725	57808.9	88
1800	-700	57822.8	88
1800	-675	57816.9	88
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1800	-625	57658	88
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1800	-575	57842.4	88
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1800	-200	58529.9	88
1800	-175	57965.6	88
1800	-150	57843.7	88
1800	-125	57799	88
1800	-100	57862	88
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1800	-50	57920.7	88
1800	-25	57965.4	88
1800	0	58018.4	88

1100	150	-8.9	8.7	-1.1	-1.7
1100	175	-8	9.1	-1.3	-1.2
1100	200	-8.7	7.6	-0.8	-1.1
1100	225	-8.8	5.3	0.4	-0.2
1100	250	-6.1	3.8	-0.9	-0.3
1100	275	-4.5	2.8	-3.9	-2.4
1100	300	-1.6	2.3	-5.1	-4.5
1100	325	-1.9	1.4	-4	-4.6
1100	350	1.9	0.9	-3.4	-3.7
1100	375	5.4	0.6	-6.2	-4.8
1100	400	5.9	0.2	-6.5	-6.4
1100	425	3.9	0.9	-1.4	-4
1100	450	-9.9	1.9	9.9	4.2
1100	475	-17.6	4.3	21.2	15.5
1100	500	-26.6	5.4	21.5	21.3
1100	525	-35.5	5.5	18.8	20.1
1100	550	-37.3	4.9	15	16.9
1100	575	-35.5	4.7	5.5	10.2
1100	600	-34.2	3.3	-1.5	2
1100	625	-29.8	2.4	-4.4	-3
1100	650	-26.1	2.7	-7.2	-5.8
1100	675	-21.8	3	-8.6	-7.9
1100	700	-20.4	2.5	-7.4	-8
1100	725	-18.3	3.2	-5.1	-6.3
1100	750	-17.7	2	-3.5	-4.3
1100	775	-15.3	1.8	-3.1	-3.3
1100	800	-10	0.9	-5.9	-4.5
1100	825	-6.9	1.1	-9.1	-7.5
1100	850	-3.9	0.8	-8.3	-8.7
1100	875	0.4	0.7	-7.6	-8
1100	900	3	1.8	-8	-7.8
1100	925	4.9	1.6	-6.5	-7.3
1100	950	5.8	1.9	-4.2	-5.4
1100	975	5.5	2.1	-1.9	-3.1
1100	1000	2.8	1.3	1.4	-0.3
1100	1025	1.9	0.7	3.7	2.5
1100	1050	-0.2	0	3.7	3.7

OBL	1800	-6.5	3.5		
OBL	1775	-5.3	3.1		
OBL	1750	-4.4	2.6		
OBL	1725	-4.8	1.6	1.5	
OBL	1700	-5.4	1.1	-0.3	0.6
OBL	1675	-5	0.6	-0.7	-0.5
OBL	1650	-3.4	-0.1	1.1	0.2
OBL	1625	-1.6	-1.1	3.1	2.1
OBL	1600	0.1	-1.9	3.9	3.5
OBL	1575	2.4	-2.4	4.2	4
OBL	1550	5.2	-2.8	5	4.6
OBL	1525	8.9	-2.8	6.5	5.7
OBL	1500	9.5	-2.7	6.2	6.3
OBL	1475	6.9	-2.8	1.4	3.8
OBL	1450	3.4	-3.2	-4.6	-1.6
OBL	1425	2.1	-4	-6.2	-5.4
OBL	1400	2.9	-4	-3	-4.6
OBL	1375	1.6	-4.2	-0.6	-1.8
OBL	1350	0.8	-4.2	1.4	1

OBL	1325	-1.4	-5.4	-2.8	-2.1
OBL	1300	-5.7	-6.6	-5.4	-4.1
OBL	1275	-8.5	-7.5	-7.7	-6.6
OBL	1250	-7.8	-7.3	-5.3	-6.5
OBL	1225	-8	-7.4	-1.1	-3.2
OBL	1200	-2.7	-7	3.2	1
OBL	1175	4.4	-6.5	10.1	6.6
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OBL	1075	11.1	-6.8	2.5	2.4
OBL	1050	12.8	-7.9	4.3	3.4
OBL	1025	13.4	-9.5	3.6	3.9
OBL	1000	12.1	-11.7	0.9	2.2
OBL	975	6.8	-16.4	-4.2	-1.7
OBL	950	26	-3.8	3.8	-0.2
OBL	925	20.3	-9.4	15.3	9.5
OBL	900	18.1	-11.7	3.4	9.3
OBL	875	21.2	-12.5	-3.8	-0.2
OBL	850	25.2	-12	4.4	0.3
OBL	825	22	-14	4.3	4.3
OBL	800	19	-15.8	-3	0.6
OBL	775	16	-15.6	-6.7	-4.9
OBL	750	15.6	-16.1	-5.2	-6
OBL	725	14.6	-15.1	-2.7	-4
OBL	700	14.5	-15.6	-1.4	-2.1
OBL	675	13.4	-16.4	-1.3	-1.4
OBL	650	14.2	-16.6	-0.9	-1.1
OBL	625	12	-16.3	-1	-1
OBL	600	10.7	-16.4	-2.7	-1.9
OBL	575	11.1	-15.3	-2.4	-2.6
OBL	550	12.3	-14.8	0.4	-1
OBL	525	11.7	-14.3	1.2	0.8
OBL	500	11.1	-14.4	-0.4	0.4
OBL	475	10.4	-12.9	-1.4	-0.9
OBL	450	9.6	-12.8	-1.6	-1.5
OBL	425	4.8	-13	-4.1	-2.9
OBL	400	3.4	-12.3	-6.7	-5.4
OBL	375	2.8	-11.3	-4.6	-5.7
OBL	350	1.6	-10.8	-2.1	-3.4
OBL	325	1.1	-10.2	-2	-2.1
OBL	300	-0.6	-10	-2.2	-2.1
OBL	275	-2.5	-9.6	-3.2	-2.7
OBL	250	-1.3	-8.3	-2.4	-2.8
OBL	225	-0.4	-7.1	0.8	-0.8
OBL	200	-0.1	-5.8	1.9	1.3
OBL	175	0	-5.2	0.9	1.4
OBL	150	-1.5	-4.5	-0.7	0.1
OBL	125	-1.2	-4.1	-1.6	-1.2
OBL	100	-0.4	-3.8	0	-0.8
OBL	75	-0.3	-3.4	1.2	0.6
OBL	50	0.6	-3.1	1	1.1
OBL	25	1.7	-2.8	1.6	1.3
OBL	0	0.7	-2.8	1.2	1.4
100	425	-72.4	-0.1		

100	375	-3.2	5.6		
100	350	0.2	6.4		
100	325	3.6	7.5		
100	300	3.4	7.5	5.7	
100	275	2.4	7.8	1.1	3.4
100	250	1.4	7.8	-1.8	-0.4
100	225	0.9	8.7	-2	-1.9
100	200	0.7	8.6	-1.3	-1.7
100	175	0	8.7	-0.9	-1.1
100	150	-1.2	8.3	-1.6	-1.3
100	125	-3.3	7.5	-3	-2.3
100	100	-6.6	6.9	-5	-4
100	75	-7.6	6.2	-5.5	-5.3
100	50	-7.4	5.9	-2.8	-4.2
100	25	-3.2	5.9	2.1	-0.4
100	0	4.2	5.5	9.1	5.6
100	-25	9.4	5.6	13.7	11.4
100	-50	11.9	6.7	11.5	12.6
100	-75	10.2	6.8	4.9	8.2
100	-100	4.6	5.9	-3.7	0.6
100	-125	1.3	5.7	-9.3	-6.5
100	-150	-1	5.9	-8.3	-8.8
100	-175	-2	6.6	-5	-6.7
100	-200	-2	7.1	-2.3	-3.7
300	-325	-0.3	-3.5		
300	-300	-2.1	-1.6		
300	-275	-4.5	1.6		
300	-250	-4.6	4.5	3.8	
300	-225	-6.3	6.9	2.4	3.1
300	-200	-9	9	3.6	3
300	-175	-11.9	10.3	5.8	4.7
300	-150	-14.1	10.8	6.1	5.9
300	-125	-15.5	11.1	5	5.5
300	-100	-15.3	10.9	2.8	3.9
300	-75	-13.3	10.9	-0.6	1.1
300	-50	-8.8	10.8	-5	-2.8
300	-25	-3.6	10.7	-9.2	-7.1
300	0	-0.7	9.8	-10.2	-9.7
300	25	1.4	9.4	-7.6	-8.9
300	50	0.8	8.8	-3.8	-5.7
300	75	-2.6	7.8	1.4	-1.2
300	100	-5.8	7.3	6.1	3.7
300	125	-6.6	6.7	6.1	6.1
300	150	-8.7	6	4	5
300	175	-10.2	5.7	3.7	3.8
300	200	-7.9	5.7	1.5	2.6
300	225	-5.1	5.7	-3.4	-1
300	250	-1.3	6.5	-6.6	-5
300	275	4.2	7.9	-9	-7.8
300	300	10.2	9.4	-11.9	-10.5
300	325	11.9	8.6	-11	-11.5
300	350	9.6	6.5	-4.1	-7.6
300	375	5.1	4.8	4.2	0
300	400	1.6	4.5	8.5	6.3
300	425	1	4.5	6.9	7.7
300	450	0.1	4.8	2.2	1.4

300	475	3	4.8	-1.4	0.3
300	500	1.5	4.7	-0.7	-1.1
600	700	11.9	0		
600	675	10.3	-0.1		
600	650	8.8	0.1		
600	625	9.7	1.6	-4.7	
600	600	10.2	2.4	0.5	-2.1
600	575	8.2	2.3	0	0.2
600	550	5.8	2.3	-3.3	-1.7
600	525	3.1	2.3	-5.4	-4.4
600	500	2.9	2.8	-4.5	-5
600	475	5	4.1	-0.5	-2.5
600	450	4	4.1	1.6	0.5
600	425	5.3	4.7	0.6	1.1
600	400	6.2	5.9	1.5	1
600	375	7.6	7.1	2.7	2.1
600	350	8	7.9	2.3	2.5
600	325	6.4	8.1	0.4	1.3
600	300	5	8.1	-2.3	-1
600	275	1.7	7.7	-4.4	-3.4
600	250	-1.7	6.9	-6.5	-5.5
600	225	-3.8	6.1	-7	-6.8
600	200	-5.1	6.6	-5.2	-6.1
600	175	-6.2	7.2	-3.4	-4.3
600	150	-7.5	7.8	-2.8	-3.1
600	125	-5.8	8.6	-1.1	-2
600	100	-3.5	10.4	2.6	0.7
600	75	-2.4	12.5	4.2	3.4
600	50	-3.3	15	2	3.1
600	25	-4.6	15.1	-1.2	0.4
600	0	-7.4	16.7	-3.7	-2.5
600	-25	-15.4	15.3	-8.6	-6.2
600	-50	-24.1	13.6	-15.6	-12.1
600	-75	-39.2	11.4	-22.1	-18.9
600	-100	-28	16.8		
600	-125	-14.4	20.9		
600	-150	-18.9	19.1	17.5	
600	-175	-11.7	15.6	6.5	12
600	-200	-0.8	10.7	11.9	9.2
600	-225	1.2	6.7	17.5	14.7
600	-250	1.3	2.5	8.3	12.9
600	-275	4.1	-1.7	2.8	5.5
600	-300	6.4	-5.5	4.7	3.7
600	-325	8.1	-8.6	5.3	5
600	-350	9.3	-10.6	3.9	4.6
600	-375	10.6	-11.9	3	3.4
600	-400	10.8	-13.4	2.2	2.6
600	-425	12	-14.1	1.6	1.9
900	-725	1.4	1.8		
900	-700	22.8	2.4		
900	-675	6.9	-6.2		
900	-650	-0.4	-4.4	9.9	
900	-625	-2.6	-3.5	18.3	14.1
900	-600	-6.9	-5.1	9	13.6
900	-575	3.3	-7.8	0.4	4.7
900	-550	5.7	7	10.4	5

900	-525	10.3	-3.5	-11	-10.7
900	-500	-8.8	-4.4	4.4	-3.4
900	-475	-17.4	-3	23.9	14.1
900	-450	-9.2	-2.8	15.9	19.9
900	-425	-8.7	-1.3	-4.8	5.5
900	-400	-20.3	0	1.3	-1.8
900	-375	-8.2	0.2	6	3.6
900	-350	3.8	-0.1	-13.9	-4
900	-325	22.5	0.5	-30.9	-22.4
900	-300	14.6	0	-23.5	-27.2
900	-275	26.4	-0.5	-8.3	-15.9
900	-250	31.7	-2.9	-11.3	-9.8
900	-225	10.8	-2.1	-0.6	-6
900	-200	-8.1	7.1	30.7	15
900	-175	-12.3	11.8	35.3	33
900	-150	-13.8	14.1	16.5	25.9
900	-125	-25.6	16.4	10.6	13.5
900	-100	-42.6	17.1	22.4	16.5
900	-75	-55.1	13.7	29.6	26
900	-50	-50.4	10.4	20.4	25
900	-25	-33.4	11.9	6	13.2
900	0	-19.9	11.5		
900	25	-15.2	11.5	-25.5	
900	50	-12.8	10.4	-14	-19.8
900	75	-10.2	9.5	-6.9	-10.5
900	100	-11	9	-4	-5.5
900	125	-9.2	8.8	-1.6	-2.8
900	150	-6.2	8.9	-3.3	-2.5
900	175	-4.6	8.5	-5.5	-4.4
900	200	-5.3	6.4	-3.2	-4.4
900	225	-6	5.5	0.3	-1.5
900	250	-3.6	6.1	-0.1	0.1
900	275	-0.3	6.2	-4.1	-2.1
900	300	1.3	5.7	-6	-5.1
900	325	2.7	5.5	-4.5	-5.3
900	350	3.8	5	-3.1	-3.8
900	375	4.9	4.4	-2.7	-2.9
900	400	1.7	3.8	-0.1	-1.4
900	425	-6.2	2.7	7.6	3.7
900	450	-11.6	2.8	13.9	10.7
900	475	-17.5	2.3	13.8	13.8
900	500	-16.7	2.8	9.2	11.5
900	525	-15.5	2.1	1.8	5.5
900	550	-16.7	0.5	-1.1	0.3
900	575	-17.7	-0.5	1.2	0
900	600	-16	-1.3	0.8	1
900	625	-12.3	-1	-3.4	-1.3
900	650	-8.7	56.9	-7.1	-5.3
900	675	-7.5	-0.7	-6.9	-7
900	700	-7.2	-1.8	-3.7	-5.3
900	725	-5.6	-1.8	-1.9	-2.8
900	750	-1.8	-0.9	-4.1	-3
900	775	0.4	-0.3	-6.5	-5.3
900	800	2.9	-0.1	-6	-6.3
900	825	5.6	0.5	-5.6	-5.8
900	850	5.6	0.5	-5.6	-5.8

900	875	7.2	0.6	-2.5	-3.6
900	900	7.3	0.3	-1.9	-2.2
900	925	6.8	-0.5	-0.8	-1.4
900	950	6.5	-0.8	0.7	-0.1
900	975	5.6	-1.1	1.2	0.9
900	1000	3.1	-2.1	2.6	1.9
1300	1150	11.9	-0.9		
1300	1125	10.3	-1.5		
1300	1100	10.8	-1.3		
1300	1075	12.7	-0.6	0.8	
1300	1050	12.3	-0.1	2.1	1.4
1300	1025	11.5	0.8	0.1	1.1
1300	1000	9.1	1.5	-2.5	-1.2
1300	975	7.3	2.5	-4.1	-3.3
1300	950	4.1	3.1	-5.2	-4.7
1300	925	0.6	2.5	-6.8	-6
1300	900	-2.7	2.7	-7.7	-7.3
1300	875	-6.1	3	-7.6	-7.7
1300	850	-8	3.7	-6.8	-7.2
1300	825	-9.2	4.6	-4.7	-5.8
1300	800	-13.5	4.1	-4.9	-4.8
1300	775	-17.4	4.8	-7.9	-6.4
1300	750	-20.2	4.7	-8.4	-8.2
1300	725	-21.8	5.3	-6.1	-7.3
1300	700	-21.7	5.3	-3.3	-4.7
1300	675	-17.5	5.7	1.5	-0.9
1300	650	-13.1	5	7.3	4.4
1300	625	-7.6	4.9	10.5	8.9
1300	600	-0.8	3.6	12.6	11.5
1300	575	4.5	2.6	13.8	13.2
1300	550	7.1	2.5	11.2	12.5
1300	525	6.6	2.1	5.7	8.4
1300	500	4.1	2.3	-0.4	2.6
1300	475	2.1	2.1	-4.3	-2.4
1300	450	3.5	2.4	-2.9	-3.6
1300	425	8.3	2.6	3.2	0.1
1300	400	11.7	3.3	8.2	5.7
1300	375	11.9	3.4	6.8	7.5
1300	350	8.9	3.6	0.4	3.6
1300	325	7.7	3.9	-4.1	-1.9
1300	300	5.1	4.3	-4.5	-4.3
1300	275	-0.3	3.2	-6.7	-5.6
1300	250	0.5	4.5	-7.2	-7
1300	225	-3.1	3.9	-4.2	-5.7
1300	200	-5.8	3.9	-5.2	-4.7
1300	175	-7.4	3.8	-6	-5.6
1300	150	-5.4	3.9	-2.2	-4.1
1300	125	-0.4	5.1	4.2	1
1300	100	3	5.7	8.8	6.5
1300	75	4.8	6.2	7.7	8.2
1300	50	6.6	5.7	5	6.3
1300	25	8.6	7	4.3	4.6
1300	0	6.5	6.6	2.1	3.2
1300	-25	6.6	6.2	-1.2	0.4
1300	-50	9.5	6.7	0.6	-0.3
1300	-75	10.2	6.8	2.7	2.1

1300	-100	9	6.8	1.8	2.7
1300	-125	9.3	6.9	-0.7	0.5
1300	-150	8.3	7.6	-0.9	-0.8
1300	-175	7.6	8.6	-1.3	-1.1
1300	-200	5.7	9.5	-2.4	-1.9
1300	-225	3.9	11.2	-3.7	-3.1
1300	-250	1.4	12.8	-4.7	-4.2
1300	-275	-0.7	14.2	-5.1	-4.9
1300	-300	-7.5	14.3	-7.7	-6.4
1300	-325	-15.9	13	-13.9	-10.8
1300	-350	-20	12.4	-15.9	-14.9
1300	-375	-23	13.5	-11	-13.5
1300	-400	-20.8	13.7		
1300	-425	-19.8	14.4		
1300	-450	3.3	14.6		
1300	-475	-5.2	11.6	21.7	
1300	-500	-8.2	10.4	1.5	11.6
1300	-525	-6.3	7	-7.2	-2.9
1300	-550	-3.7	6.4	2	-2.6
1300	-575	-0.9	5.8	5.7	3.8
1300	-600	3.9	1.8	7.4	6.5
1300	-625	8.6	-2.2	9.7	8.5
1300	-650	3.1	-2	5	7.3
1300	-675	7.5	-2.1	-1.1	1.9
1300	-700	10.5	-3.2	3.5	1.2
1500	-800	10.9	-11.8	4.4	4.6
1500	-775	11.6	-11.4	4.9	3.6
1500	-750	8.7	-10.4	2.4	2.4
1500	-725	6.1	-8.8	2.5	3.7
1500	-700	5.4	-6	5	4.9
1500	-675	5.2	-1.6	4.8	5.1
1500	-650	2.1	5.7	5.5	
1500	-625	-0.4	10.7		
1500	-600	-0.8	12.9		
1500	-575	-14.4	16.6		
1500	-550	-12.6	17.5		
1500	-525	-12.2	18.6		
1500	-500	-10.9	19	-2.1	
1500	-475	-12.5	18.6	-0.8	-1.5
1500	-450	-13.3	17.5	1.4	0.3
1500	-425	-13.4	16.2	1.8	1.6
1500	-400	-13.8	14.9	0.7	1.2
1500	-375	-13.1	12.7	0	0.3
1500	-350	-12.1	11.9	-1.3	-0.7
1500	-325	-5.7	12.1	-5.4	-3.4
1500	-300	-3.9	8.1	-8.9	-7.2
1500	-275	-2.2	6.7	-6.7	-7.8
1500	-250	-3.9	5.6	-2.2	-4.5
1500	-225	-0.6	5.6	-1	-1.6
1500	-200	4.4	5.6	-5.6	-3.3
1500	-175	8.2	5.9	-9.7	-7.7
1500	-150	10.5	5.8	-8.5	-9.1
1500	-125	6.3	4.1	-2.4	-5.5
1500	-100	1	3	6.6	2.1
1500	-75	-1.4	2.5	9.9	8.2
1500	-50	0.7	0.6	7	8.4

1500	-25	-7.8	2.4	6.2	6.6
1500	0	-11	1.7	7.8	7
1500	25	-7	2.2	3.8	5.8
1500	50	-1.8	3.4	-5.7	-1
1500	75	0.7	2.7	-9.7	-7.7
1500	100	0.7	2.1	-5.8	-7.8
1500	125	2.4	1.9	-2.3	-4.1
1500	150	6	2.1	-3.9	-3.1
1500	175	5.3	1.9	-4.7	-4.3
1500	200	0.4	1.6	1.5	-1.6
1500	225	-3	2.3	7.9	4.7
1500	250	-5.5	2.4	8	7.9
1500	275	-7	2.8	5.6	6.8
1500	300	-5.5	2.8	2.3	3.9
1500	325	-3.5	2.3	-2	0.1
1500	350	-3.7	1.9	-3	-2.5
1500	375	-4.1	0.9	-0.7	-1.9
1500	400	-4.4	0.7	0.7	0
1500	425	-2.9	-0.8	-0.3	0.2
1500	450	0	-1.7	-3.2	-1.8
1500	475	1.2	-2.4	-4.8	-4
1500	500	2.3	-2.6	-3.6	-4.2
1500	525	2.6	-2.5	-2.1	-2.9
1500	550	1.7	-1.3	-0.4	-1.3
1500	575	-1	-0.6	2.5	1
1500	600	-3	0.8	4.7	3.6
1500	625	-5.1	3.2	4.9	4.8
1500	650	-8.7	5.7	5.6	5.2
1500	675	-10.6	7.4	6.5	6
1500	700	-13.1	9.4	5.7	6.1
1500	725	-13.8	9.6	4.3	5
1500	750	-13.7	9.9	2.2	3.2
1500	775	-13.8	10.8	0.4	1.3
1500	800	-13.2	10.2	-0.3	0
1500	825	-14.1	8.4	-0.1	-0.2
1500	850	-13.5	8.2	0.3	0.1
1500	875	-10.5	8.4	-2	-0.9
1500	900	-9.2	6	-4.5	-3.3
1700	750	1.9	4.9		
1700	725	1.9	3.6		
1700	700	1.3	1.8		
1700	675	2.5	0.2	0	
1700	650	2.9	-2	1.1	-0.5
1700	625	4.3	-4.1	1.9	1.5
1700	600	6.5	-6.2	3.2	2.5
1700	575	11.1	-8.2	5.9	4.5
1700	550	15.5	-9.4	9	7.4
1700	525	19.1	-9.4	9.8	9.4
1700	500	21.7	-8.2	8	8.9
1700	475	24.6	-6	6.3	7.1
1700	450	23.3	-4	3.7	5
1700	425	16	-3.7	-3.9	-0.1
1700	400	10.7	-2.5	-11.7	-7.8
1700	375	3.9	-2.2	-13.9	-12.8
1700	350	-3.4	-1.5	-14.9	-14.4
1700	325	0.0	0.0	-15.0	-15.4

1700 325 8.8 0.8 13.2 13.1

1700	300	-14.8	-0.1	-13.7	-14.5
1700	275	-17.9	0.1	-11.6	-12.7
1700	250	-15.5	0.6	-5.5	-8.6
1700	225	-9.1	0.8	4.5	-0.5
1700	200	-3.2	-0.2	11.9	8.2
1700	175	3.7	-1.7	14.3	13.1
1700	150	7.4	-3.1	13.3	13.8
1700	125	11.3	-3.9	10.3	11.8
1700	100	10.8	-3.6	6.2	8.2
1700	75	8.8	-2.7	0.5	3.3
1700	50	7	-2.9	-3.5	-1.5
1700	25	8.1	-2.4	-2.5	-3
1700	0	9.8	-1.6	1.2	-0.7
1700	-25	6.8	-1.3	0.9	1
1700	-50	4.8	-1.5	-3.6	-1.4
1700	-75	3.2	-1.4	-5	-4.3
1700	-100	5	-0.8	-2	-3.5
1700	-125	9.9	0	3.9	0.9
1700	-150	15.9	1.1	10	6.9
1700	-175	14.9	2	9	9.5
1700	-200	11.2	4.5	0.2	4.6
1700	-225	8	6.2	-6.4	-3.1
1700	-250	1.4	6.3	-9.4	-7.9
1700	-275	-4.2	5.3	-12.6	-11
1700	-300	-5.5	6.6	-11	-11.8
1700	-325	-6.3	8	-5.2	-8.1
1700	-350	-6.2	8.9	-1.6	-3.4
1700	-375	-7	10.5	-0.8	-1.2
1700	-400	-6.9	12.2	-0.8	-0.8
1700	-425	-5.9	13.3	0.2	-0.3
1700	-450	-3.5	15.3	2.6	1.4
1700	-475	-5.2	14.8	2.4	2.5
1700	-500	-5.1	8.3		
1700	-525	-4.8	8.1		
1700	-500	-4.7	7.9		
1700	-525	-5	7.8		
1700	-550	-5.3	7.3	1.7	
1700	-575	-5.2	7.1	2.5	2.3
1700	-600	-5.6	6.7	3	2.9
1700	-625	-3.7	3.7	3.2	3
1700	-650	2.5	0.9	5.9	3.5
1700	-675	-1.4	-0.2	5.8	3.8
1700	-700	3.6	-4.4	2	3.9
1700	-725	15	-12.2	10	6
1700	-750	24.4	-17.7	20.9	15.4
1700	-775	28.7	-18.2	19.1	20
1700	-800	29.3	-17.9	10.1	14.6
600	-1200	5.2	-12.8		
600	-1175	6.8	-13.5		
600	-1150	11.1	-15		
600	-1125	17.4	-14	-9.4	
600	-1100	15.8	-13.5	-8.6	-9
600	-1075	15	-12.6	-1.2	-4.9
600	-1050	9.7	-10.7	4.8	1.8
600	-1025	5.2	-8	9	6.9
600	-1000	0.6	-5.7	10.0	0.0

600	-975	-1.8	-4	9.1	9.9
600	-950	-3.3	-2.6	6	7.5
600	-925	-4.8	-2.4	3.8	4.9
600	-900	-5.5	-1.9	3	3.4
600	-875	-6	-1.7	2	2.5
600	-850	-4.6	-1.8	0.2	1.1
600	-825	-4.4	-2	-1.4	-0.6
600	-800	-6	-1.8	-0.1	-0.8
600	-775	-6.5	-1.6	2	0.9
600	-750	-7.8	-2.2	2.2	2.1
600	-725	-5	-3.1	0.1	1.1
600	-700	-0.3	-4.7	-5.1	-2.5
600	-675	3.4	-5.8	-8.9	-7
600	-650	7.3	-7.3	-9	-9
600	-625	11.4	-8.5	-8.9	-9
600	-600	14.4	-9.9	-8.7	-8.8
600	-575	17.9	-11.4	-7.7	-8.2
600	-550	17.3	-11.8	-5.2	-6.5
600	-525	19.9	-12.6	-2.7	-4
600	-500	19.8	-12	-2.5	-2.6
600	-475	13.3	-11.9	2.3	-0.1
600	-450	10.6	-11.9	8.9	5.6
600	-425	6.5	-12.7	9	8.9
600	-400	7.1	-12.8	5.8	7.4
700	-450	39.4	-18.8		
700	-475	29	-17.6		
700	-500	21	-14		
700	-525	15.7	-12.8	-17	
700	-550	11.9	-11.5	-12.3	-14.7
700	-575	10.9	-9.5	-7.7	-10
700	-600	9.7	-8.2	-4	-5.9
700	-625	9.4	-6	-2.2	-3.1
700	-650	11.8	-4	0.3	-1
700	-675	8.4	-2.8	0.7	0.5
700	-700	1.9	-1.9	-6.1	-2.7
700	-725	-9	-1.5	-15.5	-10.8
700	-750	-14.3	-0.2	-19.1	-17.3
700	-775	-16.8	1.4	-13.6	-16.4
700	-800	-14	2.2	-4.2	-8.9
700	-825	-9.4	2.1	4.4	0.1
700	-850	-3.5	1.3	10.1	7.2
700	-875	0.8	0.4	11.6	10.8
700	-900	7.2	-1.2	11.8	11.7
700	-925	7.2	-1.7	9.8	10.8
700	-950	3.3	-2.2	1.5	5.6
700	-975	-2.6	-2.5	-7.8	-3.2
700	-1000	-6	-3.5	-10.9	-9.4
700	-1025	-2.5	-5.5	-5.2	-8.1
700	-1050	23	-8.3	16.4	5.6
700	-1075	33.2	-12.5	36	26.2
700	-1100	30.9	-13.7	24	30
700	-1125	30.4	-13.8	2.9	13.4
700	-1150	32.5	-12.7	-0.6	1.1
700	-1175	35.8	-12	3.6	1.5
700	-1200	29.9	-12.1	1.4	2.5
700	-1225	20.8	-12.8	8.4	4

700	-1250	15.9	-12.3	-15.6	-12.5
800	-1350	-0.5	-7.5		
800	-1325	-0.3	-7.6		
800	-1300	-0.1	-7.5		
800	-1275	5.7	-7.5	-3.6	
800	-1250	11.6	-7.7	-9.9	-6.8
800	-1225	15.2	-8.5	-12	-11
800	-1200	20.2	-8.2	-10.2	-11.1
800	-1175	30	-6.2	-12.9	-11.6
800	-1150	21	-9.7	-8.5	-10.7
800	-1125	28.3	-10.1	0.5	-4
800	-1100	26.1	-11.1	-1.9	-0.7
800	-1075	25.8	-10.7	-1.4	-1.7
800	-1050	20.6	-9.6	4.4	1.5
800	-1025	13.3	-7.3	9.9	7.1
800	-1000	11	-5.5	12.3	11.1
800	-975	2.8	-4	11.3	11.8
800	-950	-10.3	-3.1	17.9	14.6
800	-925	-9	-1.9	18.7	18.3
800	-900	-7.8	0.4	5.3	12
800	-875	-15.1	4.1	2	3.6
800	-850	-13.6	6.1	6.7	4.3
800	-825	-16.1	5.8	3.9	5.3
800	-800	-22.3	5.3	5.4	4.6
800	-775	-22.7	4.3	8.5	6.9
800	-750	-21.6	3.3	3.4	5.9
800	-725	-18.5	2.5	-2.6	0.4
800	-700	-12.7	2.1	-7.3	-5
800	-675	-8.8	0.8	-10.5	-8.9
800	-650	-8.2	-0.9	-8.1	-9.3
800	-625	-8.8	-2.3	-2.6	-5.4
800	-600	-7	-4.5	-0.6	-1.6
800	-575	-5.7	-5.8	-2.4	-1.5
800	-550	-5.8	-6.1	-2.5	-2.5
800	-525	-5.6	-6.1	-0.7	-1.6
900	-700	19.5	3.9		
900	-725	10.1	2.4		
900	-750	0.8	3.3		
900	-775	-0.4	4.1	-16.5	
900	-800	-1.7	4.3	-7.5	-12
900	-825	-4.3	5.3	-3.7	-5.6
900	-850	-9.8	4.8	-6.7	-5.2
900	-875	-11.5	4.3	-8.6	-7.7
900	-900	-4.2	1.8	-1	-4.8
900	-925	7.7	-2	14	6.5
900	-950	19.5	-4.6	24.3	19.1
900	-975	14.3	-5.1	17.1	20.7
900	-1000	3.8	-5.5	-5.1	6
900	-1025	1.9	-5.6	-15.8	-10.5
900	-1050	4.8	-6.5	-6.5	-11.2
900	-1075	9.3	-7.5	4.7	-0.9
900	-1100	15	-9.5	10	7.3
900	-1125	17	-11.6	10.1	10
900	-1150	34.8	-11	15	12.5
900	-1175	36.5	-10.9	21.1	18
900	-1200	35.5	-9.9	19.7	15.9

900	-1225	15.3	-10.3	-11	-0.2
900	-1250	4.7	-10.4	-28.1	-19.6
900	-1275	-7.1	-11.1	-29.6	-28.9
900	-1300	-12.8	-9.6	-22.8	-26.2
900	-1325	-13	-9.7	-13.3	-18.1
900	-1350	18.9	10.8	14.7	0.7
900	-1375	18.2	11.3	35.7	25.2
900	-1400	17.8	11.7	17.1	26.4
1000	-1100	-9.3	1.3		
1000	-1075	-9.4	1.2		
1000	-1050	-8	0.8		
1000	-1025	-8.3	0	-1.4	
1000	-1000	-8	-0.2	-0.6	-1
1000	-975	0.8	1.1	-5.1	-2.9
1000	-950	1.5	2.3	-10.5	-7.8
1000	-925	-0.3	1.8	-4.9	-7.7
1000	-900	-0.8	1.6	1.9	-1.5
1000	-875	-0.4	1.5	1.5	1.7
1000	-850	-1.9	1.7	0.7	1.1
1000	-825	-3.5	2.2	2.4	1.5
1000	-800	-5.2	2.3	3.6	3
1000	-775	-5.4	1.7	2.9	3.2
1000	-750	-4.6	1.5	0.8	1.8
1000	-725	-1.6	1	-2.5	-0.9
1000	-700	1.7	0.3	-5.7	-4.1
1000	-675	3.9	-0.2	-6.6	-6.2
1000	-650	-2.9	-5	-0.6	-3.6
1000	-625	3.5	-4	2.7	1
1000	-600	1.6	-4.6	-2.3	0.2
1000	-575	1.4	-5.2	-1.3	-1.8
1000	-550	5.4	-5.3	-1	-1.2
1700	750	2.3	4		
1700	775	2.7	2.7		
1700	750	2.2	1.2		
1700	725	2.6	1.2	-0.1	
1700	700	2.5	1.1	0.2	0
1700	675	2.6	-0.5	0.2	0.2
1700	650	3.7	-2.7	0.7	0.4
1700	625	4.7	-5	1.9	1.3
1700	600	7	-7.2	3.1	2.5
1700	575	10.5	-8.9	5.1	4.1
1700	550	16	-10.1	8.3	6.7
1700	525	18.8	-10.1	9.8	9
1700	500	23	-8.8	8.5	9.1
1700	475	25.9	-6.6	7.7	8.1
1700	450	24	-4.7	4.5	6.1
1700	425	17.4	-4.1	-4.1	0.2
1700	400	11.6	-3.4	-11.6	-7.9
1700	375	4.5	-2.4	-14.1	-12.9
1700	350	-2.4	-1.9	-15.2	-14.7
1700	325	-8.9	-0.9	-15.6	-15.4
1700	300	-14.7	-0.5	-14.5	-15.1
1700	275	-17.4	0	-11.8	-13.2
1700	250	-14.5	0.8	-4.8	-8.3
1700	225	-8.5	0.6	5.1	0.1
1700	200	-2.8	0.8	11.6	8.8

1700 200 2.9 0.9 11.8 8.3

1700	175	4.1	-2.1	13.8	12.7
1700	150	8.2	-4	13.5	13.6
1700	125	12	-3.6	10.8	12.1
1700	100	11.7	-4	6.5	8.6
1700	75	9.6	-3.5	0.7	3.6
1700	50	8.1	-2.8	-3.4	-1.4
1700	25	9.4	-2.7	-2.3	-2.9
1700	0	10.1	-2.2	0.9	-0.7
1700	-25	7.9	-1.8	0.3	0.6
1700	-50	4.8	-1.5	-3.8	-1.8
1700	-75	4.7	-0.8	-4.8	-4.3
1700	-100	5.3	-0.9	-1.5	-3.2
1700	-125	12	-0.1	4.4	1.4
1700	-150	17.2	0.3	10.8	7.6
1700	-175	15.1	1.4	8.5	9.6
1700	-200	12.5	3.7	-0.8	3.8
1700	-225	7.7	4.9	-6.8	-3.8
1700	-250	2.6	5.5	-9.8	-8.3
1700	-275	-3.1	5.5	-11.7	-10.8
1700	-300	-3.7	6.7	-9.7	-10.7
1700	-325	-5	7.5	-4.8	-7.3
1700	-350	-5.1	9.3	-2	-3.4
1700	-375	-6	10.7	-1.3	-1.7
1700	-400	-5.8	11.9	-0.9	-1.1
1700	-425	-4.9	13.3	0.2	-0.4
1700	-450	-2.7	14.6	2.4	1.3
1700	-475	-1.6	15.4	3.7	3
1700	-500	-4.2	13.9	1	2.3
1700	-525	-4.5	14	-2.6	-0.8
1700	-550	-4.2	14	-1.7	-2.2
1700	-575	-4.7	13.9	-0.1	-0.9
1700	-600	-5.6	14.1	-0.9	-0.5
1800	-825	16.7	-13.8		
1800	-800	16.5	-13.8		
1800	-775	4.1	-12.9		
1800	-750	5.8	-10.9	13.2	
1800	-725	-2.9	-8.1	9.9	11.5
1800	-700	-1.9	-7.9	8.3	9.1
1800	-675	0.7	-5.7	2.4	5.3
1800	-650	-4.4	0.5	-0.6	0.9
1800	-625	-7.2	5.3	5.9	2.6
1800	-600	-5.6	7.3	5.2	5.5
1800	-575	-1.8	8.4	-2.4	1.4
1800	-550	-6	10.3	-2.9	-2.7
1800	-525	-12.8	12.3	6.5	1.8
1800	-500	-17.1	14.7	12.6	9.5
1800	-475	-16.6	14.6		
1800	-450	-15.6	14.5		
1800	-425	-17.2	13		
1800	-400	-19.3	11.7	2.5	
1800	-375	-16.5	9.9	1.6	2
1800	-350	-12.8	10.1	-4.1	-1.3
1800	-325	-9.7	8.9	-7.4	-5.8
1800	-300	-9.6	6.1	-5.6	-6.5
1800	-275	-8.9	5.2	-2.2	-3.9
1800	-250	-8.6	4.7	-2.8	-2.4

1800	-225	0.2	3.9	-8.7	-6.3
1800	-200	0.5	2.9	-7.4	-8.1
1800	-175	-3	0.3	-0.4	-3.9
1800	-150	-0.4	-1	2.2	0.9
1800	-125	8.9	0.2	-6.4	-2.1
1800	-100	6.9	-0.4	-10.9	-8.7
1800	-75	4.4	-1.6	-1.5	-6.2
1800	-50	3.5	-2.4	4.5	1.5
1800	-25	3	-2.9	2.7	3.6
1800	0	3.7	-3.8	0.7	1.7
2200	900	18.5	2.8		
2200	875	19.7	3.1		
2200	850	17.5	4.2		
2200	825	72.2	0.1		
2200	800	10.1	5.7		
2200	775	2.1	6.1		
2200	750	-2.1	6.2		
2200	725	-6.1	7.2	-11.7	
2200	700	-13.3	5.5	-11.1	-11.4
2200	675	-16.8	5.6	-12.4	-11.8
2200	650	-15.5	6.4	-7.2	-9.8
2200	625	-8.8	5.8	3.3	-2
2200	600	-3.8	4.5	11.1	7.2
2200	575	2.4	2.1	12.9	12
2200	550	8.4	0	13.3	13.1
2200	525	11.7	-1.5	12.4	12.8
2200	500	13.8	-2.1	8.4	10.4
2200	475	8.6	-2.2	1.2	4.8
2200	450	1.5	-1.5	-8.8	-3.8
2200	425	-2.1	-0.4	-13.1	-11
2200	400	-3	-0.3	-8.6	-10.9
2200	375	-1.2	-0.8	-2	-5.3
2200	350	-0.6	-2.2	1.9	-0.1
2200	325	0.6	-3	2.4	2.1
2200	300	2.7	-4	2.8	2.6
2200	275	2.6	-5.4	3	2.9
2200	250	3	-7	1.4	2.2
2200	225	4.7	-9.1	1.3	1.3
2200	200	3.9	-10.6	1.6	1.4
2200	175	2.4	-10.5	-0.8	0.4
2200	150	5.9	-10.4	-0.2	-0.5
2200	125	8.4	-10	4.6	2.2
2200	100	7.2	-10.2	4.3	4.4
2200	75	5.5	-10.1	-0.9	1.7
2200	50	6.6	-10.4	-2	-1.5
2200	25	9.4	-10.6	2	0
2200	0	7.2	-9.9	2.6	2.3
2200	-25	12.3	-8.5	1.9	2.2
2200	-50	14.7	-8.1	5.8	3.8
2200	-75	14.7	-7	5.6	5.7
2200	-100	9.3	-6.9	-1.6	2
2200	-125	-1.8	-7.1	-12.4	-7
2200	-150	-3.1	-5.7	-16.4	-14.4
2200	-175	-5.6	-4.7	-9.2	-12.8
2200	-200	-4.3	-2.6	-2.9	-6.1
2200	-225	-4.1	-2.4	-2.4	-4.5

2200	-250	-5	-1.5	0.1	0
2200	-275	-1.8	-0.4	1.1	0.6
2200	-300	-0.7	0.8	4.1	2.6
2200	-325	2.1	2.4	4.7	4.4
2200	-350	0.8	2.6	3	3.8
2200	-375	-1.4	2.9	-1.2	0.9
2200	-400	-1.4	3.3	-3.2	-2.2
2100	-450	-1.4	5.2		
2100	-425	0	4.6		
2100	-400	-0.8	3		
2100	-375	-3.3	0.7	1.4	
2100	-350	-2.6	0.2	2.9	2.1
2100	-325	8.6	2.4	-5.6	-1.4
2100	-300	9.1	-0.1	-13.4	-9.5
2100	-275	8.6	0	-6.7	-10.1
2100	-250	1.2	-1.8	4.5	-1.1
2100	-225	-7	-4	13.4	8.9
2100	-200	-11.4	-6.7	16.1	14.7
2100	-175	-4.2	-8.2	5.6	10.8
2100	-150	-0.3	-9.4	-8	-1.2
2100	-125	7.9	-9.4	-13.3	-10.7
2100	-100	12.7	-10.1	-14.2	-13.8
2100	-75	21.4	-9	-14.8	-14.5
2100	-50	25.3	-8	-14.5	-14.7
2100	-25	16	-8.4	-4.1	-9.3
2100	0	13.8	-8.1	9.3	2.6
2100	25	8.6	-8.1	10.6	9.9
2100	50	-1.1	-6.9	12.6	11.6
2100	75	-4.4	-6.7	15.8	14.2
2100	100	-6.5	-7.4	10.5	13.1
2100	125	-6.9	-8	4.5	7.5
2100	150	-1.6	-9.3	-1.4	1.5
2100	175	6.4	-9.1	-10.3	-5.9
2100	200	7.8	-9.5	-12.8	-11.6
2100	225	6.7	-9.1	-5.5	-9.2
2100	250	7.4	-8.1	0	-2.8
2100	275	4.8	-7	1.3	0.6
2100	300	2.5	-6.2	3.9	2.6
2100	325	0	-4.8	5.5	4.7
2100	350	-2	-1.8	5.2	5.3
2100	375	-2.4	-1	3.8	4.5
2100	400	-1.8	-0.7	1.2	2.5
2100	425	-2.8	0	0.2	0.7
2100	450	-1.2	-0.2	0	0.1
2100	475	0.1	0	-2	-1
2100	500	0.7	0.5	-2.8	-2.4
2100	525	-0.1	1.6	-1	-1.9
2100	550	-2.7	3.4	2	0.5
2100	575	-4.4	5	4.4	3.2
2100	600	-7.6	7	5.3	4.8
2100	625	-9.3	8	5.6	5.4
2100	650	-12.4	8.9	5.6	5.6
2100	675	-13.7	7.8	5.3	5.4
2100	700	-14.6	6.6	3.7	4.5
2100	725	-13.3	5.4	0.9	2.3

2100	775	-3.9	2.5	-8.6	-6.1
2100	800	2.4	1.7	-11.7	-10.2
2100	825	7.2	0.9	-12.7	-12.2
2000	775	-7.3	3.8		
2000	750	-10.7	4.3		
2000	725	-12.9	5.2		
2000	700	-12.4	6.7	-4.1	
2000	675	-10.9	8	0.2	-2
2000	650	-9.9	8.4	2.5	1.3
2000	625	-11.4	8.6	1.1	1.8
2000	600	-10.7	7.8	-0.8	0.1
2000	575	-7.8	7.1	1.6	0.4
2000	550	-2.6	5.5	6.7	4.1
2000	525	-1.9	4.7	8	7.3
2000	500	-0.4	4	4.7	6.3
2000	475	0	3.1	2.3	3.5
2000	450	0	2.7	1.2	1.7
2000	425	-0.2	2.1	0.1	0.6
2000	400	-0.3	1.5	-0.3	-0.1
2000	375	-0.2	1.2	-0.2	-0.3
2000	350	-0.3	0.4	0	-0.1
2000	325	-0.1	-0.7	0.1	0
2000	300	4	-2.8	2.6	1.3
2000	275	9	-5.1	7.6	5.1
2000	250	13.7	-7.2	10.6	9.1
2000	225	14.4	-8.7	8.6	9.6
2000	200	10.5	-8.7	1.3	4.9
2000	175	6.8	-8.4	-6.1	-2.4
2000	150	4.6	-7.8	-7.7	-6.9
2000	125	2.3	-6.8	-6	-6.9
2000	100	3.2	-6	-3.4	-4.7
2000	75	2.6	-5.1	-0.6	-2
2000	50	0	-5	-1.6	-1.1
2000	25	-0.1	-4.5	-3.3	-2.5
2000	0	-1.9	-4.8	-2.5	-2.9
2000	-25	-1.6	-5.2	-1.9	-2.2
2000	-50	2.1	-5.2	1.3	-0.3
2000	-75	7.3	-6.5	7.2	4.2
2000	-100	9.4	-7.1	9.2	8.2
2000	-125	10.5	-7.2	6.1	7.6
2000	-150	11	-5.9	2.8	4.4
2000	-175	9.3	-6.2	0.2	1.5
2000	-200	7	-4.9	-3	-1.4
2000	-225	7.2	-3.4	-3.5	-3.3
2000	-250	6.4	-1	-1.6	-2.6
2000	-275	4.6	0.3	-1.9	-1.8
2000	-300	6.4	3	-1.5	-1.7
2000	-325	6	4.2	0.8	-0.4
2000	-350	1.7	3.4	-1.9	-0.6
2000	-375	0.9	3.9	-5.6	-3.8
2000	-400	1.5	4.5	-3	-4.3
2000	-425	3.7	6.2	1.5	-0.8
2000	-450	2.3	7.6	2.1	1.8
2000	-475	-1.5	7	-2.4	-0.2
2000	-500	-5.9	7.4	-7.6	-5
2000	-525	0.4	7.6	0.2	0.5

2000	-550	-10.6	8.3	-7.2	-8.3
1900	-925	16.8	-5.3	6.9	12.1
1900	-900	21.7	-6.5	17.3	14.3
1900	-875	18.7	-8.3	11.3	6.4
1900	-850	7.4	-5.4	1.6	2.3
1900	-825	2.3	-3	3	4.8
1900	-800	3.9	-1.9	6.6	3.8
1900	-775	3.1	0.3	1.1	-2.9
1900	-750	-2.2	3	-6.8	-5.8
1900	-725	-2.6	4.4	-4.7	
1900	-700	1.6	6		
1900	-675	5.6	6.9		
1900	-650	1.7	6.7		
1900	-625	-3.1	8.4		
1900	-600	-4.2	8.3		
1900	-575	-4.8	8.6		
1900	-550	-5.2	8.6	1.6	
1900	-525	-5.8	8.1	1.2	1.4
1900	-500	-7.9	8.7	2.1	1.6
1900	-475	-7.6	7.6	2.5	2.3
1900	-450	-7	6.8	0.5	1.5
1900	-425	-6.1	6.4	-1.3	-0.4
1900	-400	-6.7	6	-1	-1.2
1900	-375	-8.2	5.4	0.9	-0.1
1900	-350	-8.9	5.7	2.4	1.6
1900	-325	-5.5	4.7	-0.2	1.1
1900	-300	-0.5	5	-6.3	-3.3
1900	-275	4.5	4.1	-10.4	-8.4
1900	-250	3.5	2.6	-7.9	-9.2
1900	-225	4.1	0.3	-2.1	-5
1900	-200	1.9	-0.5	1.1	-0.5
1900	-175	1.9	-1.8	2.2	1.6
1900	-150	-1.5	-2.7	3.2	2.7
1900	-125	-5.4	-4.3	6	4.6
1900	-100	-2.2	-4.7	4.5	5.2
1900	-75	7.4	-2.3	-6.9	-1.2
1900	-50	6.7	-3.3	-12.3	-9.6
1900	-25	5.3	-3.7	-3.8	-8.1
1900	0	2.4	-4.2	3.6	-0.1
1900	25	0	-5.6	5.4	4.5
1900	50	-0.1	-6.1	4.4	4.9
1900	75	1.1	-6	0.8	2.6
1900	100	1	-7.2	-1.2	-0.2
1900	125	0	-8.6	0	-0.6
1900	150	4.6	-8.8	-1.4	-0.7
1900	175	6	-8.5	-5.4	-3.4
1900	200	5.7	-6.9	-4	-4.7
1900	225	2.8	-5	1.2	-1.4
1900	250	-2.1	-2.9	6.2	3.7
1900	275	-8.1	-0.6	10.6	8.4
1900	300	-11.4	1.4	11.5	11
1900	325	-13.7	2.1	8.5	10
1900	350	-9.9	2	2.3	5.4
1900	375	-5	1.5	-5.8	-1.8
1900	400	-2.2	0.8	-9.3	-7.6

1900 425 0.9 0.4 8.8 8.1

1900	450	-2	0.4	-2.5	-4.7
1900	475	-2	0.7	0.5	-1
1900	500	-2.3	1.7	0.8	0.6
1900	525	-4	2.6	1.3	1
1900	550	-6.5	3.6	3.5	2.4
1900	575	-8	4.6	4.8	4.1
1900	600	-8.8	5.2	3.7	4.2
1900	625	-7.8	5.4	1.2	2.4
1900	650	-7.8	4.6	-0.6	0.3
1900	675	-8.4	3.5	-0.2	-0.4
1900	700	-9.4	2.5	1.1	0.4
TL-650	550	1.4	-4.4		
TL-650	525	0.3	3.4		
TL-650	550	1.8	2.8		
TL-650	575	0.7	2.1	-0.4	
TL-650	600	1.8	1.9	-0.2	-0.3
TL-650	625	2	1.6	-0.7	-0.5
TL-650	650	3.8	1.4	-1.9	-1.3
TL-650	675	4.7	-0.6	-2.8	-2.4
TL-650	700	5.7	-1.6	-2.6	-2.7
TL-650	725	8.1	-2.5	-2.9	-2.8
TL-650	750	12.8	-3.8	-6	-4.5
TL-650	775	11.9	-4.9	-6.3	-6.2
TL-650	800	9.8	-5.3	-0.5	-3.4
TL-650	825	8.1	-4.7	3.9	1.7
TL-650	850	10.2	-4.9	2	2.9
TL-650	875	15.3	-4.6	-4.3	-1.2
TL-650	900	-14.7	3.4	10	2.8
TL-650	925	6.8	-3.1	19	14.5
TL-650	950	-0.8	-2.5	-2.9	8
TL-650	975	-3.6	-2.1	-2	-2.5
TL-650	1000	-4.1	-1.1	7.6	2.8
TL-650	1025	-3.2	-0.8	1.6	4.6
TL-650	1050	-2.8	-0.4	-0.9	0.3
TL-650	1075	-2.5	-0.3	-1.1	-1
TL-650	1100	-2.1	-0.3	-0.8	-1
TL-650	1125	-0.7	-0.8	-1.4	-1.1
TL-650	1150	0	-0.8	-2.2	-1.8
TL-650	1175	0.4	-0.6	-1.8	-2
TL-650	1200	0.2	0	-0.7	-1.3
TL-650	1225	-0.8	1.4	0.5	-0.1
TL-650	1250	-1.8	2.7	1.7	1.1
TL-650	1275	-5.5	4.6	3.8	2.7
TL-650	1300	-6.4	6.3	5.3	4.5
TL-650	1325	-9.2	7.9	4.8	5
TL-650	1350	-11.1	8.6	5	4.9
TL-650	1375	-12.9	9.3	4.9	4.9
TL-650	1400	-12.5	9.2	2.9	3.9
1300	-925	-0.4	0		
1300	-900	0.7	-1.8		
1300	-875	0.8	-3.3		
1300	-850	2.5	-4.6	-1.7	
1300	-825	1.2	-6	-1.3	-1.5
1300	-800	1.3	-6.1	0.4	-0.5
1300	-775	0.3	-6.2	1.3	0.8
1300	-750	0.4	-5.6	1.1	1.0

1300	-725	1.5	-4.8	-0.2	0.4
1200	-650	2.9	-0.5		
1200	-675	2.2	1.3		
1200	-700	-0.2	1.7		
1200	-725	-2.2	2.7	-4.1	
1200	-750	-3.8	3.5	-4.5	-4.3
1200	-775	-4.4	3.3	-3.4	-4
1200	-800	-3.6	2.9	-1.2	-2.3
1200	-825	-1.3	2.4	1.9	0.3
1200	-850	2.7	2.4	5.4	3.6
1200	-875	3.1	2.5	6	5.7
1200	-900	2.9	3.1	2.5	4.2
1200	-925	2	3.9	-0.5	1
1200	-950	1.2	6.1	-1.5	-1
1200	-975	-3	7	-3.7	-2.6
1200	-1000	-7.3	6.7	-7.7	-5.7
1200	-1025	-7.6	6.3	-7.5	-7.6
1200	-1050	-6.7	7.7	-2.2	-4.9
1100	-1075	-11.8	7.4		
1100	-1050	-11.4	5.7		
1100	-1025	-15.3	4.4		
1100	-1000	-13.5	3.4	3.1	
1100	-975	-9.5	2.5	-2.1	0.5
1100	-950	-4.3	2.1	-8.6	-5.4
1100	-925	-0.6	1.3	-10.4	-9.5
1100	-900	-0.2	0.7	-7.4	-8.9
1100	-875	-0.9	0.1	-2.1	-4.8
1100	-850	-2.5	0	1.5	-0.3
1100	-825	-4.2	0.6	3.2	2.3
1100	-800	-8.6	1.7	5.4	4.3
1100	-775	-11.3	2.7	7.5	6.4
1100	-750	-9.9	1.5	4.7	6.1
1100	-725	-6.4	0.3	-2.1	1.3
1100	-700	-1.4	-0.7	-7.6	-4.9
1100	-675	1.2	-1.7	-9.1	-8.4
1100	-650	5	-3.2	-7.9	-8.5
1100	-625	4.7	-3.9	-5.6	-6.8
1100	-600	1.1	-3.3	0.2	-2.7
1100	-575	-4.3	-3.8	7.3	3.7
1100	-550	-0.7	-3.2	6.1	6.7
1100	-525	-0.4	-3.9	-1.2	2.4
1100	-500	-0.4	-3.4	-2.4	-1.8
1100	-475	0.1	-1	-0.4	-1.4
1100	-450	-2.1	0.7	0.8	0.2
1100	-425	-6	2.3	4.4	2.6
1100	-400	-9.7	4.7	7.7	6
1100	-375	-13.7	5.2	8.7	8.2
1100	-350	-13.9	5.1	6.8	7.7
1100	-325	-14.1	5.7	2.6	4.7
1100	-300	-12	7.1	-0.8	0.9
1100	-275	-5.7	7.4	-5.7	-3.3
1100	-250	1	8.5	-12.2	-9
1100	-225	9.8	10.2	-16.4	-14.3
1100	-200	11.4	8.5	-14.9	-15.7
1100	-175	7.6	7.1	-4.8	-9.9
1100	-150	4.2	6.6	-5.4	-9.9

1100	-125	1.3	6.3	7.9	6.6
1100	-100	2.9	6.5	4.5	6.2
1100	-75	3.6	6.5	-0.5	2
1100	-50	1.4	6.2	-0.5	-0.5
1100	-25	-3.9	5.6	5	2.2
1100	0	-9.9	6.6	10.7	7.8
1050	-100	-25.7	8.6		
1050	-75	-17.9	9.6		
1050	-50	-17	10.4		
1050	-25	-16.5	11.5	-5.6	
1050	0	-12.7	11.9	-3.2	-4.4
1050	25	-8.3	10.9	-7	-5.1
1050	50	-5.9	11.2	-8.5	-7.8
1050	75	-5.9	10.1	-5.3	-6.9
1050	100	-7.2	8.3	-0.7	-3
1050	125	-3.9	8.4	-0.5	-0.6
1050	150	-3.1	8.3	-3.5	-2
1050	175	-3	7.2	-2.8	-3.2
1050	200	-4.3	6.1	0.1	-1.4
1050	225	-3.9	6	1.1	0.6
1050	250	-1.9	5.2	-0.8	0.1
1050	275	0	5.9	-3.5	-2.2
1050	300	0.3	5.6	-3.5	-3.5
1050	325	1.5	4.7	-2.1	-2.8
1050	350	4.5	4.3	-3.2	-2.7
1050	375	8.9	2.9	-6.7	-5
1050	400	10	2.2	-7.4	-7.1
1050	425	8.9	1.9	-3.1	-5.3
1050	450	4.1	1.9	3.4	0.1
1050	475	-2.3	2.2	9.8	6.6
1050	500	-8.6	2.7	13.6	11.7
1050	525	-15.6	2.9	14.7	14.1
1050	550	-25	2.1	16.6	15.6
1050	575	-29	0.4	16.4	16.5
1050	600	-27.7	0	13.4	14.9
1050	625	-23.2	0.9	3.1	8.2
1050	650	-18.3	0.9	-12.7	-4.8
1050	675	-15.4	-1.2	-14.1	-13.4
1050	700	-13.9	-0.7	-6.9	-10.5
1050	725	-9.7	-0.3	-5.7	-6.3
1050	750	-7.7	-0.6	-6.7	-6.2
1050	775	-5.5	-0.7	-5.9	-6.3
1050	800	-2.4	-0.7	-5.5	-5.7
1050	825	1.1	0.2	-6.8	-6.2
1050	850	3.7	0.4	-7.1	-7
1050	875	5.2	0.6	-5.7	-6.4
1050	900	7	0.7	-4.2	-5
1050	925	8.1	0.9	-3.6	-3.9
1050	950	9	1	-2.8	-3.2
1050	975	10	0.6	-2.2	-2.5
1050	1000	8.4	-0.6	-0.8	-1.5
1050	1025	5.8	-0.7	2.7	0.9
1050	1050	-0.1	-1.6	7.2	4.9
1050	1075	-4	-2.4	10.4	8.8
1050	1100	-6.1	-2.3	9.1	9.7

850	775	8	0.6		
850	750	6.3	0		
850	725	7.2	0.5	-1	
850	700	10.4	2	0.3	-0.4
850	675	10.7	2.7	2.8	1.5
850	650	7.4	2.9	0.3	1.5
850	625	2.1	1.8	-6.6	-3.2
850	600	-2.2	1.2	-10.3	-8.5
850	575	-1.9	1.7	-7.7	-9
850	550	3.7	4.2	1	-3.4
850	525	0.9	3.6	4.9	2.9
850	500	-3.3	2.9	-2.4	1.2
850	475	-10.3	1.8	-10.4	-6.4
850	450	-12.4	1.5	-11.6	-11
850	425	-0.7	3.4	0.3	-5.7
850	400	7.3	4.9	16.7	8.5
850	375	10.5	6.4	17.6	17.1
850	350	11.4	7.7	8.8	13.2
850	325	10.9	8.4	2.6	5.7
850	300	8.4	8.3	-1.5	0.5
850	275	5.9	8.5	-4.5	-3
850	250	3.8	8.2	-5.4	-5
850	225	3.6	8.5	-4	-4.7
850	200	1.5	8.9	-2.7	-3.4
850	175	-0.2	8.7	-3.4	-3.1
850	150	-2.4	7.9	-4.4	-3.9
850	125	-4.5	8.4	-4.8	-4.6
850	100	-4.6	9.1	-3.7	-4.3
850	75	-7.2	9.3	-2.7	-3.2
850	50	-4.6	12.4	-1.6	-2.2
850	25	-5.6	14.2	0.8	-0.4
850	0	-11.1	13.2	-2.8	-1
850	-25	-14.5	15.5	-8.9	-5.9
850	-50	-22.3	12.5	-11.6	-10.3
850	-75	-24.4	11.7	-11.8	-11.7
850	-100	-26.7	13.7	-7.8	-9.8
850	-125	-29.3	15.7	-5.2	-6.5

EOF



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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

February 21, 1994

Our File: 2.15246
Transaction #: W9380.00346

Recording Office
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 CLAIMS
L.1165339 ET AL IN FAWCETT 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 February 18, 1994.

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

Yours sincerely,

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

/KR/jl
Enclosures:

cc: Resident Geologist
Cobalt, Ontario

✓ Assessment Files Library
Toronto, Ontario



Report of Work Conducted After Recording Claim

Mining Act

DOCUMENT No. 9380-00346
Transaction Number W

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 6A5, telephone (705) 670-7264.

2.15246

- 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) Daniel F. Patrie		Client No. 179999
Address P.O. Box 45, Massey, Ontario POP 1P0		Telephone No. (705) 844-2113
Mining Division Larder Lake	Township/Area Fawcett	M or G Plan No.
Dates Work Performed From: September 01/93		To: December 20/93

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	Line Cutting and Geophysics
<input type="checkbox"/> Physical Work, Including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	SECTION 18 ONLY
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

L2691 3
RECEIVED
DEC 30 1993
MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs \$ 31,100

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
Norwin Geological Ltd.	560 Notre Dame Avenue, Sudbury, Ontario P3C 5L2
E. Sawitzky	
See Also Appendix of report for list of personnel	

(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 Dec. 20/93	Recorded Holder or Agent (Signature) <i>Dan Patrie</i>
--	--------------------	---

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
Dan Patrie, P.O. Box 45, Massey, Ontario POP 1P0

Telephone No. (705) 844-2113	Date Dec. 20/93	Certified By (Signature) <i>Dan Patrie</i>
---------------------------------	--------------------	---

For Office Use Only

Total Value Cr. Recorded \$31,100	Date Recorded <i>Dec 23/93</i> FH	Mining Recorder <i>Lang. Stahl</i>	Received Stamp RECEIVED LARDER LAKE MINING DIVISION DEC 28 1993
	Deemed Approval Date <i>March 23/94</i>	Date Approved	
	Date Notice for Amendments Sent		

STATEMENT OF COSTS

FAWCETT TOWNSHIP CLAIMS

1165339, 1165340 & 1179246

SEPTEMBER TO DECEMBER 1993

1.	48 KM LINE CUTTING @ \$300/KM	\$	14,400
2.	48 KM MAG/VLF @ \$200/KM (1,920 STATIONS READ)		9,600
3.	MOB-DEMOB, CAMP SET UP & TEAR DOWN 4 MEN 4 DAYS		2,400
4.	VEHICLE EXPENSE, 2 VEHICLES		1,200
5.	PLOTTING: \$10/KM/SURVEY		1,000
6.	FINAL REPORT, COMPILATION, INTERPRETATION		2,500

TOTAL EXPENDITURES \$ 31,100

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No. / Numéro de transaction
W 9380 • 00346

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	\$14,400	
	Field Supervision Supervision sur le terrain		14,400
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type Geophysics	9,600	
	Report	2,500	
	Plotting	1,000	13,100
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			27,500

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work. Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type Vehicles-Km	1,200	
			1,200
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation	Mob-Demob	2,400	2,400
Sub Total of Indirect Costs Total partiel des coûts indirects			3,600
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excedant pas 20 % des coûts directs)			3,600
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs) Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			\$31,100

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	× 0.50 =

Remises pour dépôt

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Evaluation totale demandée
	× 0,50 =

Certification Verifying Statement of Costs

I hereby certify: that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Recorded Holder I am authorized (Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

J'atteste par la présente : que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature Ca. Peter Date Dec. 20/93

NORWIN GEOLOGICAL LIMITED

MINERAL EXPLORATION AND RESEARCH

Telephone (705) 671-2766
Fax (705) 671-2497

560 Notre Dame Avenue, Sudbury, Ontario P3C 5L2

December 22, 1993

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

Dear Sir:

Re: Assessment Work, Claims 1165339, 1165340 and
1179246, Fawcett Township

Enclosed is the Report of Work form and the reports and maps covering a program of line-cutting and geophysics on the above noted claims.

* The scale of the enclosed map is 1:10 000 however, as a result of conversations with Clive Stephenson in the Assessment Branch, we are submitting these for consideration. If required they can be replaced by maps at a scale of 1:5 000.

Yours truly,



Dan Patrie

RECEIVED
KIRKLAND LAKE
MINING DIVISION

DEC 22 1993

DP:dg

TIME _____

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY
 S.R.O. - SURFACE RIGHTS ONLY
 M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
SEC 36/80	W-12-90 NER	APR 3/90	M+S	
SEC 36/80	W-13-90	APR 3/90	M+S	
O-112-90 NER OPERAS W-13-90 ON JULY 9 1990				

Part of order W-12-90 NER REOPENED by order O-ONT-06/92 NER/CR effective March 16 1992 at 4:45 pm E.S.T.

Part of order W-12-90 NER REOPENED by order O-ONT-07/92 NER/CR dated March 23 1992 at 8:45 am F.S.T. This Order comes into effect at 7:00 AM E.S.T. on JUNE 1, 1992.

NOTES

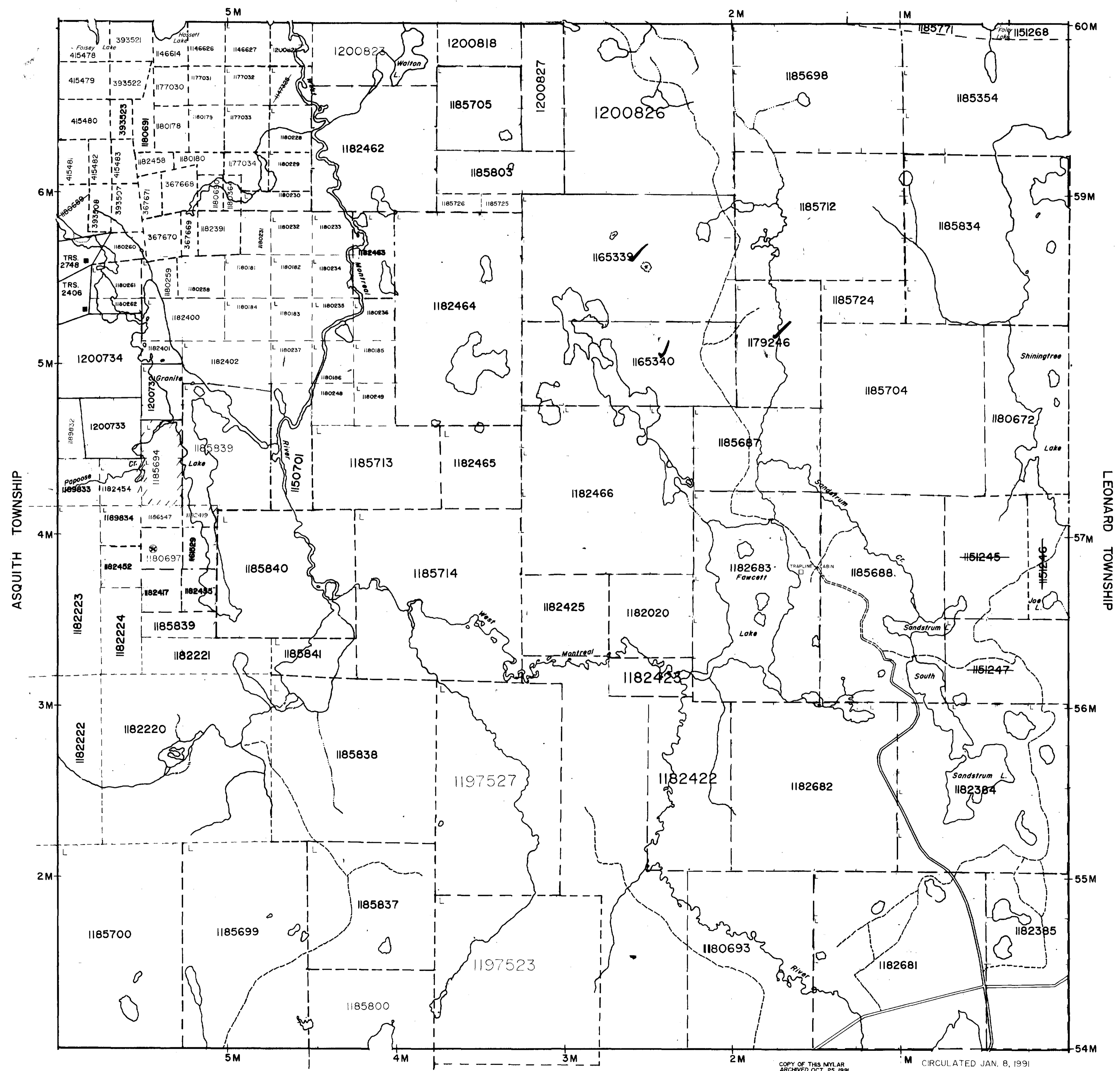
NOTICE OF FORESTRY ACTIVITY
 THIS TOWNSHIP/AREA FALLS WITHIN THE SHININGTREE MANAGEMENT UNIT AND MAY BE SUBJECT TO FORESTRY OPERATIONS THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT:

P.O. BOX 129 LOW AVENUE
 GOGAMA - ONTARIO
 POM - 1W0
 705-894-2000

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

MACMURCHY TOWNSHIP

GEOLOGY REFERENCE-COBALT
 RESIDENT GEO.



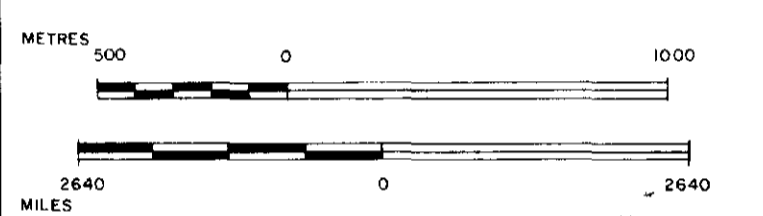
LEGEND

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

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

SCALE: 1:20000



400' RESERVATION AROUND ALL LAKES AND RIVERS

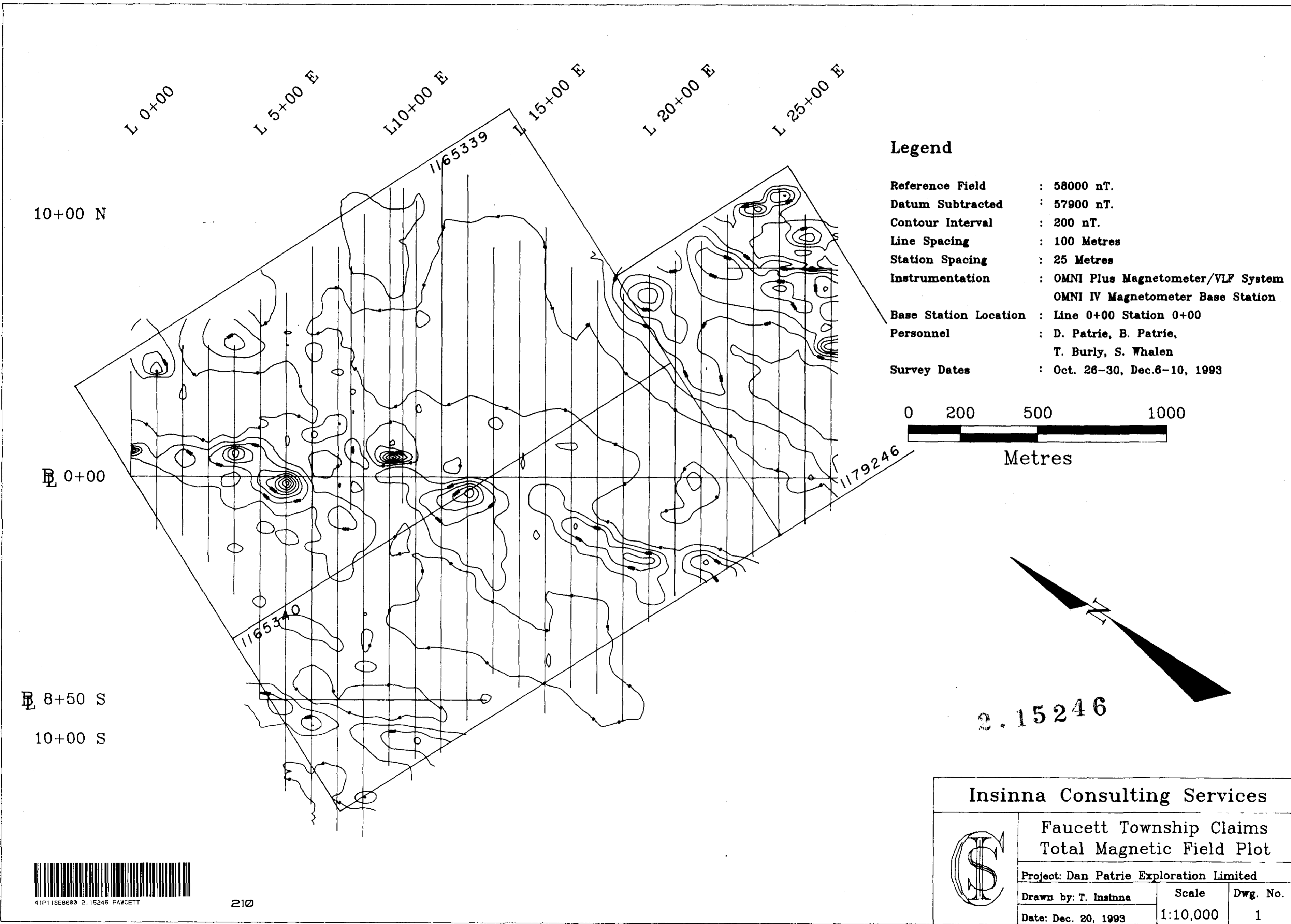
TOWNSHIP
FAWCETT
 M.N.R. ADMINISTRATIVE DISTRICT
 GOGAMA
 MINING DIVISION
 LARDER LAKE
 LAND TITLES / REGISTRY DIVISION
 SUDBURY

Ministry of Natural Resources Ontario
 Ministry of Northern Development and Mines

Date JAN 8 1991
 Number
G-971

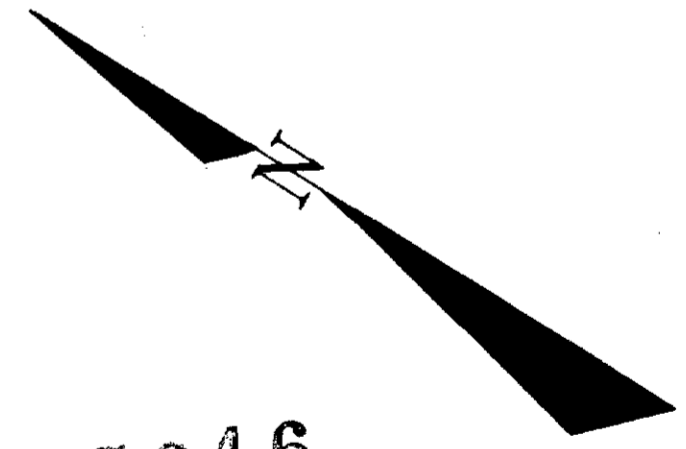
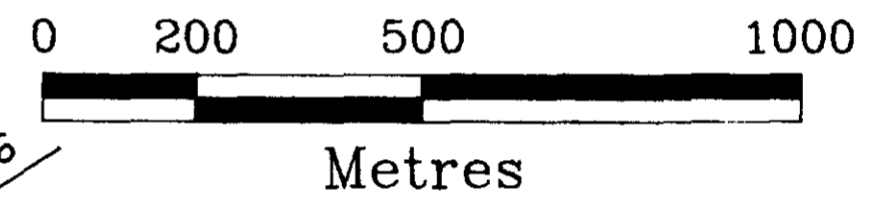
COPY OF THIS MYLAR ARCHIVED OCT. 23, 1991
 COPY OF THIS MYLAR ARCHIVED NOV 29/91
 CIRCULATED JAN. 8, 1991
 COPY OF THIS MYLAR ARCHIVED SEPT 23, 1991
 COPY OF THIS PLAN ARCHIVED DEC. 22, 1993.





Legend

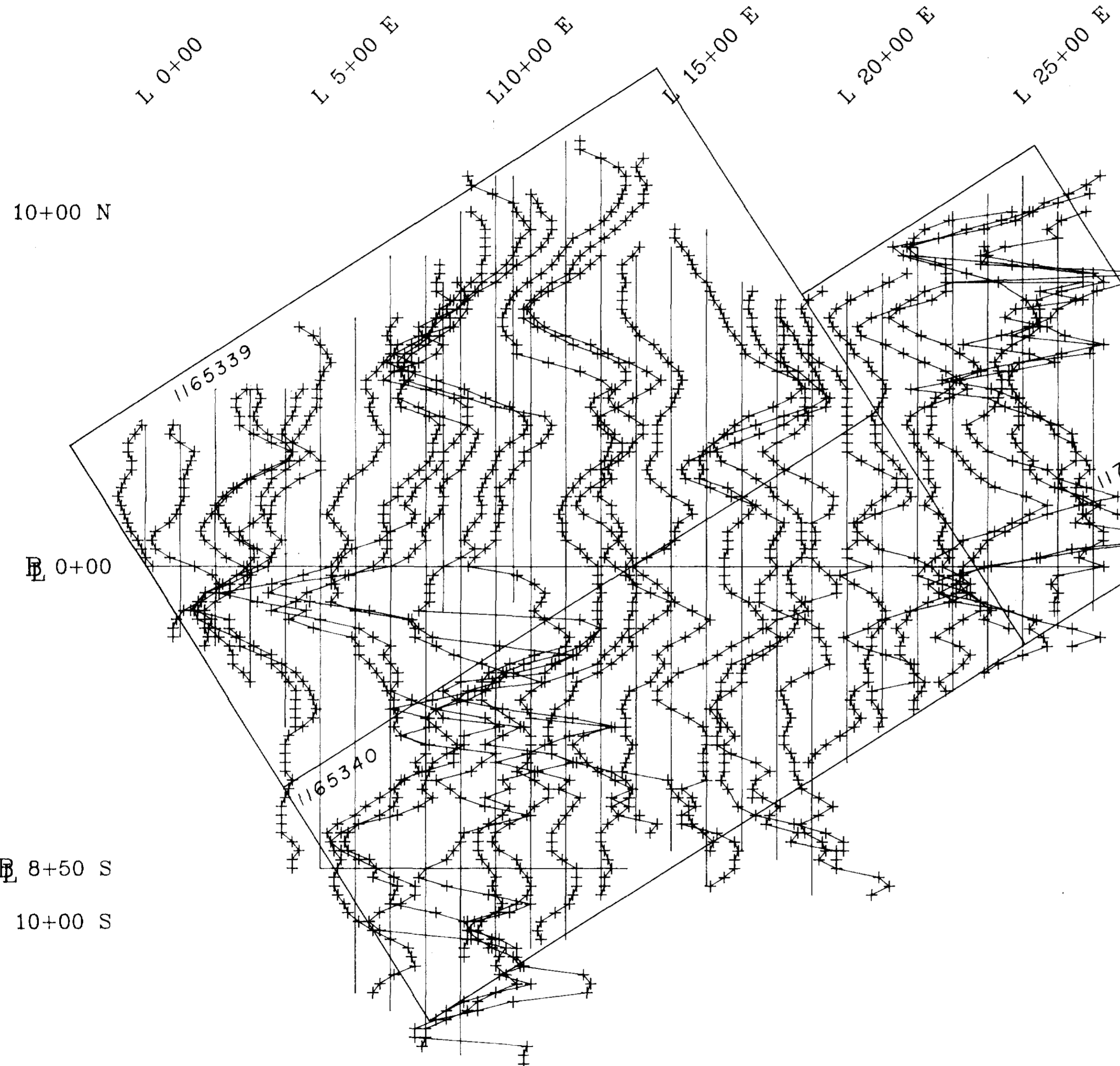
Reference Field : 58000 nT.
 Datum Subtracted : 57900 nT.
 Contour Interval : 200 nT.
 Line Spacing : 100 Metres
 Station Spacing : 25 Metres
 Instrumentation : OMNI Plus Magnetometer/VLF System
 OMNI IV Magnetometer Base Station
 Base Station Location : Line 0+00 Station 0+00
 Personnel : D. Patrie, B. Patrie,
 T. Burly, S. Whalen
 Survey Dates : Oct. 26-30, Dec.6-10, 1993



2.15246

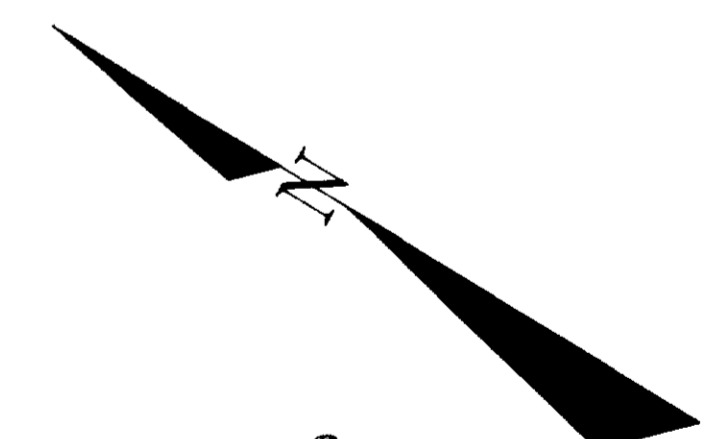
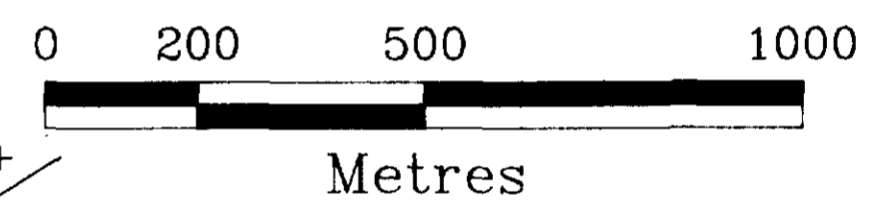
Insinna Consulting Services			
	Faucett Township Claims Total Magnetic Field Plot		
	Project: Dan Patrie Exploration Limited		
	Drawn by: T. Insinna	Scale	Dwg. No.
	Date: Dec. 20, 1993	1:10,000	1





Legend

- Transmitter Station : Cutler, Maine, U.S.A.
- Transmitter Frequency : 24.0 kHz.
- Profile Scale : 1 cm. = 10 %
- Line Spacing : 100 Metres
- Station Spacing : 25 Metres
- Instrumentation : OMNI Plus Magnetometer/VLF System
- Personnel : D. Patrie, B. Patrie
T. Burly, S. Whalen
- Survey Dates : Oct. 26-30, Dec. 6-10, 1993

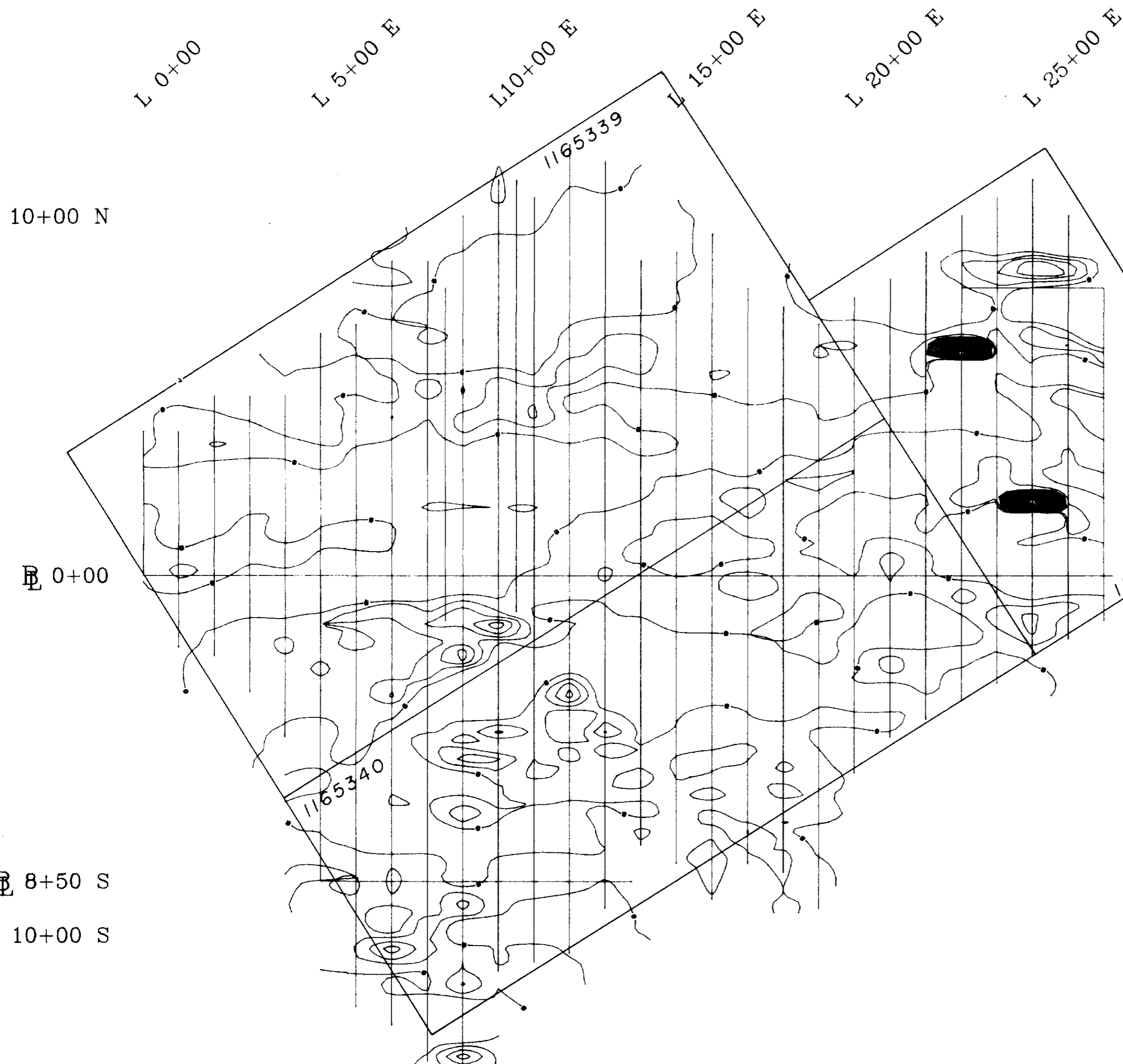


2.15246

Insinna Consulting Services			
	Faucett Township Claims VLF Dip Angle Plot		
	Project: Dan Patrie Exploration Limited		
	Drawn by: T. Insinna	Scale	Dwg. No.
	Date: Dec. 20, 1993	1:10,000	2

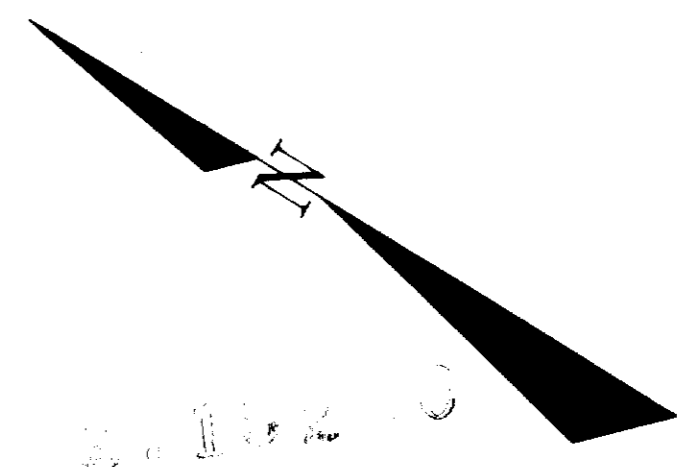
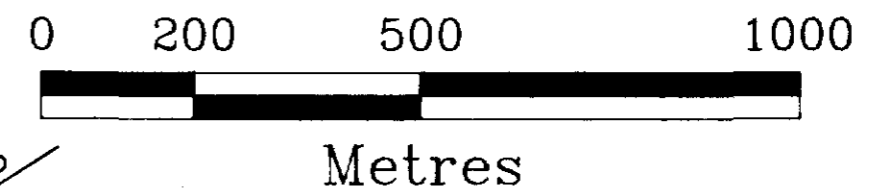


41P118E6600 2.15246 FAWCETT



Legend

- Filter Length : 4-Point
- Transmitter Station : Cutler, Maine, U.S.A.
- Transmitter Frequency : 24.0 kHz.
- Contour Interval : 10 %
- Line Spacing : 100 Metres
- Station Spacing : 25 Metres
- Instrumentation : OMNI Plus Magnetometer/VLF System
- Personnel : D. Patrie, B. Patrie
T. Burly, S. Whalen
- Survey Dates : Oct. 26-30, Dec. 6-10, 1993



41P11SE8600 2.15246 FAWCETT

Insinna Consulting Services			
	Faucett Township Claims VLF Fraser Filter Plot		
	Project: Dan Patrie Exploration Limited		
	Drawn by: T. Insinna	Scale	Dwg. No.
	Date: Dec. 20, 1993	1:10,000	3